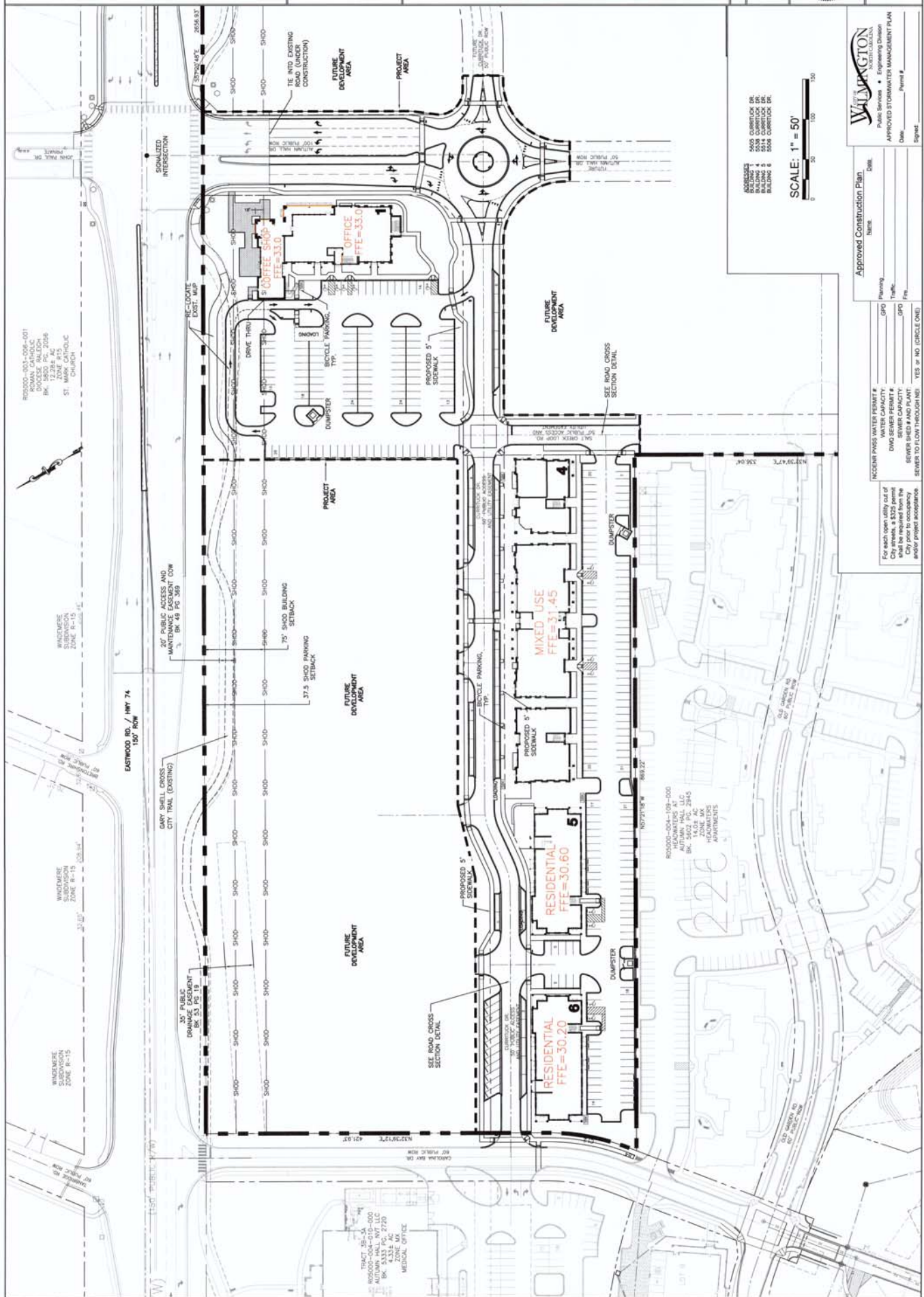




18128
 License No. 18128
 William J. Tunstall
 State of North Carolina

NORRIS & TUNSTALL
 CONSULTING ENGINEERS P.C.
 1900 EASTWOOD RD., SUITE 101
 WILMINGTON, NC 28405
 PHONE: 919.413.9633
 FAX: 919.413.9639
 1055 MILITARY CUTOFF RD.,
 WILMINGTON, NC 28405
 PHONE: 919.413.9633

DEVELOPER
 WEB TRASK COMMERCIAL BROWN
 CAFE TRASK COMMERCIAL, LLC
 1055 MILITARY CUTOFF RD.,
 WILMINGTON, NC 28405
 344-1014 (P) 622-4657 (CELL)
OVERALL SITE PLAN
 AUTUMN HALL COMMERCIAL PH I
 1202 EASTWOOD ROAD
 WILMINGTON, NC
 NEW HANOVER COUNTY



Approved Construction Plan

Name: _____
 Title: _____

For each open utility cut of City streets, a \$320 permit will be required from the City of Wilmington. Call prior to sewer installation and/or proper acceptance.

WATER CAPACITY: _____
 DWD SEWER PERMIT # _____
 SEWER SIZES AND IN/OUT _____
 SEWER TO FLOW THROUGH: YES or NO (CIRCLE ONE)

INCIDENT PASSES WATER PERMIT # _____
 WATER CAPACITY _____
 DWD SEWER PERMIT # _____
 SEWER SIZES AND IN/OUT _____
 SEWER TO FLOW THROUGH: YES or NO (CIRCLE ONE)

Planning: _____
 Traffic: _____
 Fire: _____

Date: _____
 Permit # _____
 Signed: _____

ADDRESSES
 5605 CORRIELOCK DR
 BUILDING 1
 5614 CORRIELOCK DR
 BUILDING 5
 5506 CORRIELOCK DR
 BUILDING 6

SCALE: 1" = 50'

R05000-001-006-001
 ROMAN CATHOLIC
 SUBDIVISION
 BK 5000 PCL 0008
 12.28± AC
 ST. MARK CATHOLIC
 CHURCH

R05000-001-006-001
 WINDMERE
 SUBDIVISION
 ZONE R-15
 33.88± AC

20' PUBLIC ACCESS AND
 MAINTENANCE EASEMENT COW
 BK 51 PG 19

75' SHOO BUILDING
 SETBACK

37.5' SHOO PARKING
 SETBACK

R05000-004-108-000
 HEADWATERS AT
 C
 BK 5007 PCL 2045
 14.02 AC
 HEADWATERS
 APARTMENTS

TRACT 181-5A
 R05000-004-010-000
 MEDICAL OFFICE
 BK 5333 PCL 7720
 4.33± AC

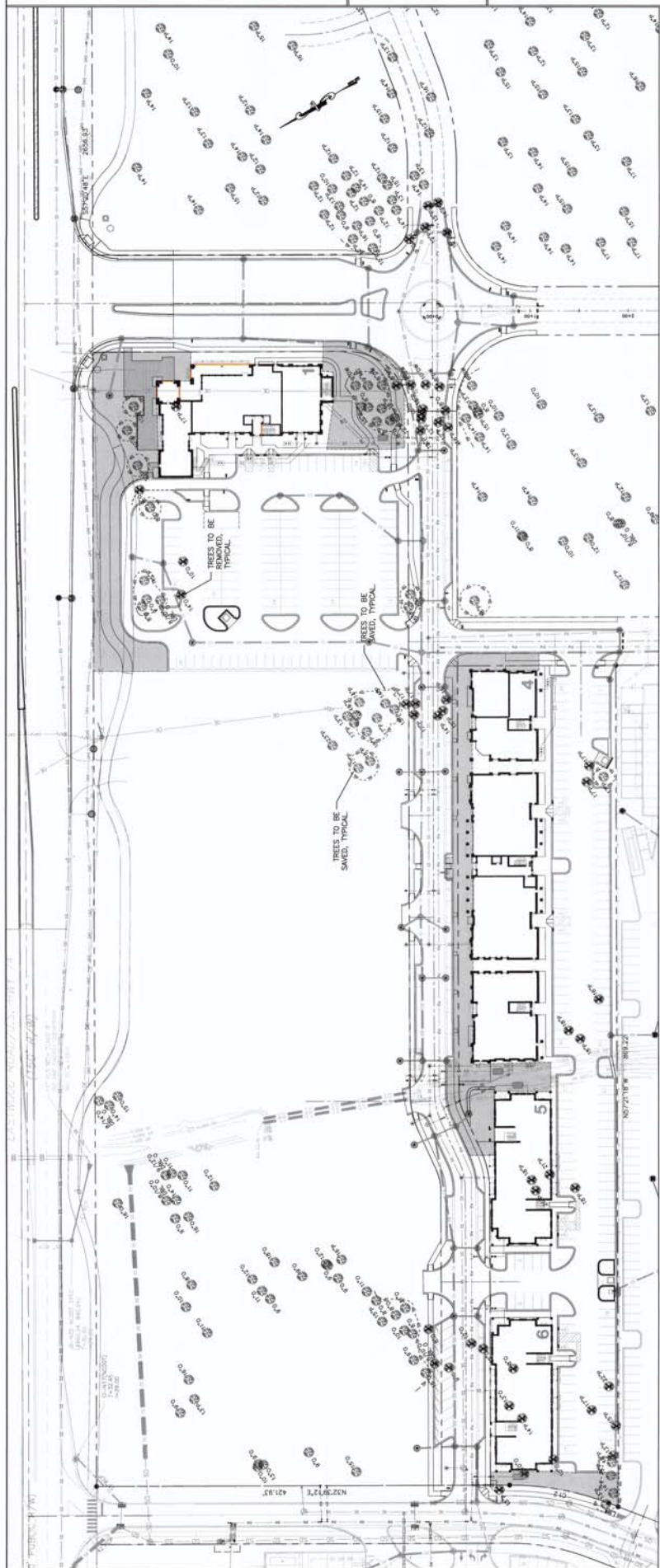
R05000-004-108-000
 HEADWATERS AT
 C
 BK 5007 PCL 2045
 14.02 AC
 HEADWATERS
 APARTMENTS



18128
 License No. 18128
 WILLIAM H. WILLIAMS
 PROFESSIONAL ENGINEER
 CIVIL
 STATE OF NORTH CAROLINA
 DATE: 10/07/19

NORRIS & TUNSTALL
 CONSULTING ENGINEERS P.C.
 1800 EASTWOOD RD., SUITE 101
 FARMINGTON, NC 28405
 PHONE: 919.443.9833
 1429 ASHLITTLE BERRY RD. NE
 ATLANTA, GA 30329
 PHONE: 404.252.5000

DEVELOPER
 WEB TRASK COMMERCIAL, LLC
 CARE FEAR COMMERCIAL, LLC
 1051 MILITARY CUTOFF RD.
 WILMINGTON, NC 28405
 344-1010 (P) 622-4657 (CELL)
 NEW HANOVER COUNTY
 WILMINGTON, NC
 1202 EASTWOOD ROAD
 AUTUMN HALL COMMERCIAL PH I
 TREE REMOVAL PLAN AND OPEN SPACE



LEGEND

- 15" P (Symbol) EXISTING TREE TO BE SAVED
- 15" P (Symbol) EXISTING TREE TO BE REMOVED

PRELIMINARY OPEN SPACE AREA AVAILABLE FOR DESIGNATION AS ACTIVE OR PASSIVE RECREATION AND/OR OPEN SPACE. (100 FACS)

SCALE: 1" = 50'

TREE REMOVAL TABLE - REGULATED

REGULATED DIAMETER	REGULATED HEIGHT	REGULATED DOORWOOD
12" (3)	8' (4)	8" (1)
13" (3)	9' (4)	8" (1)
14" (3)	10' (4)	8" (1)
15" (4)	11' (4)	8" (1)
16" (4)	12' (4)	8" (1)
17" (4)	13' (4)	8" (1)
18" (4)	14' (4)	8" (1)
19" (4)	15' (4)	8" (1)
20" (4)	16' (4)	8" (1)
21" (4)	17' (4)	8" (1)
22" (4)	18' (4)	8" (1)

TREE REMOVAL TABLE - SIGNIFICANT

REGULATED DIAMETER	REGULATED HEIGHT	SIGNIFICANT DOORWOOD
20" (1)	8' (1)	8" (1)
21" (1)	10' (1)	8" (1)

For each open utility out of City streets, a \$302 permit shall be obtained from the City Engineer and the City and/or project acceptance.

NCCORR PMS WATER PERMIT # _____
 WATER CAPACITY _____
 DWD SEWER PERMIT # _____
 SEWER PERMIT # _____
 SEWER SCHED # AND PLANT _____
 SEWER TO FLOW THROUGHLINE: YES or NO (CIRCLE ONE)

Approved Construction Plan

Planning: _____ Name: _____ Date: _____
 Title: _____
 Date: _____ Permit # _____
 Signature: _____

WILMINGTON
 Public Services • Engineering Division
 APPROVED STORMWATER MANAGEMENT PLAN

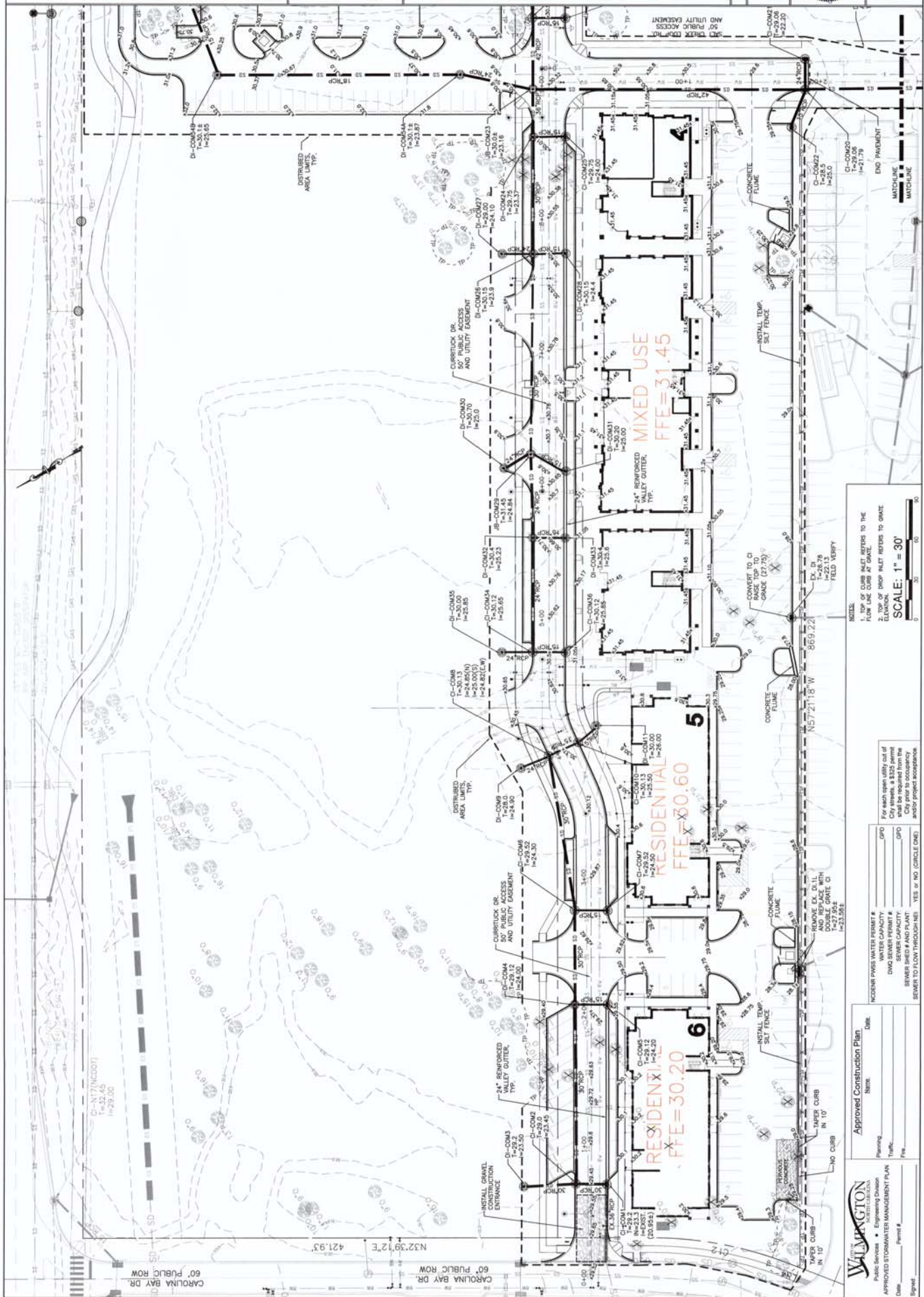


18128
 DATE 10/09/19
 SHEET NO. 10/09/19

NORRIS & TUNSTALL
 CONSULTING ENGINEERS P.C.

DEVELOPER
 WEB TRASK CO. MIKE BROWN
 CARP FEAR COMMERCIAL, LLC
 1051 MILITARY CUTOFF RD.
 WILMINGTON, NC 28405
 344-1010 (P) 822-4857 (CELL)

GRADING, DRAINAGE AND EROSION CONTROL PLAN
 AUTUMN HALL COMMERCIAL PH I
 1202 EASTWOOD ROAD
 WILMINGTON, NC
 NEW HANOVER COUNTY



NOTES:
 1. TOP OF CURB INLET REFERS TO THE ELEVATION OF THE TOP OF THE CURB AT GRADE.
 2. TOP OF DROP INLET REFERS TO GRADE.
 SCALE: 1" = 30'

NOBARR PAVES WATER PERMIT # _____ DATE _____
 WATER CAPACITY _____
 DWS SEWER PERMIT # _____
 SEWER SIZES AND PLANT _____
 SEWER TO FLOW THROUGH (NE, YES or NO (CIRCLE ONE)) _____
 and/or project acceptance _____

Approved Construction Plan
 Planning _____ DATE _____
 Title _____
 Form _____
 Permit # _____
 Approved Stormwater Management Plan
 Date _____
 Title _____
 Form _____
 Permit # _____



CAROLINA BAY DR. 60' PUBLIC ROW
 N32°39'12"E 421.93'
 CAROLINA BAY DR. 60' PUBLIC ROW
 N57°27'16"W 669.22'



18128
 DATE: 10/07/19
 SHEET: 10/07/19

NORRIS & TUNSTALL
 CONSULTING ENGINEERS P.C.

1900 EASTWOOD RD., SUITE 101
 WILMINGTON, NC 28405
 PHONE: 910 413 9633
 FAX: 910 413 9639
 EMAIL: info@norrisandtunstall.com

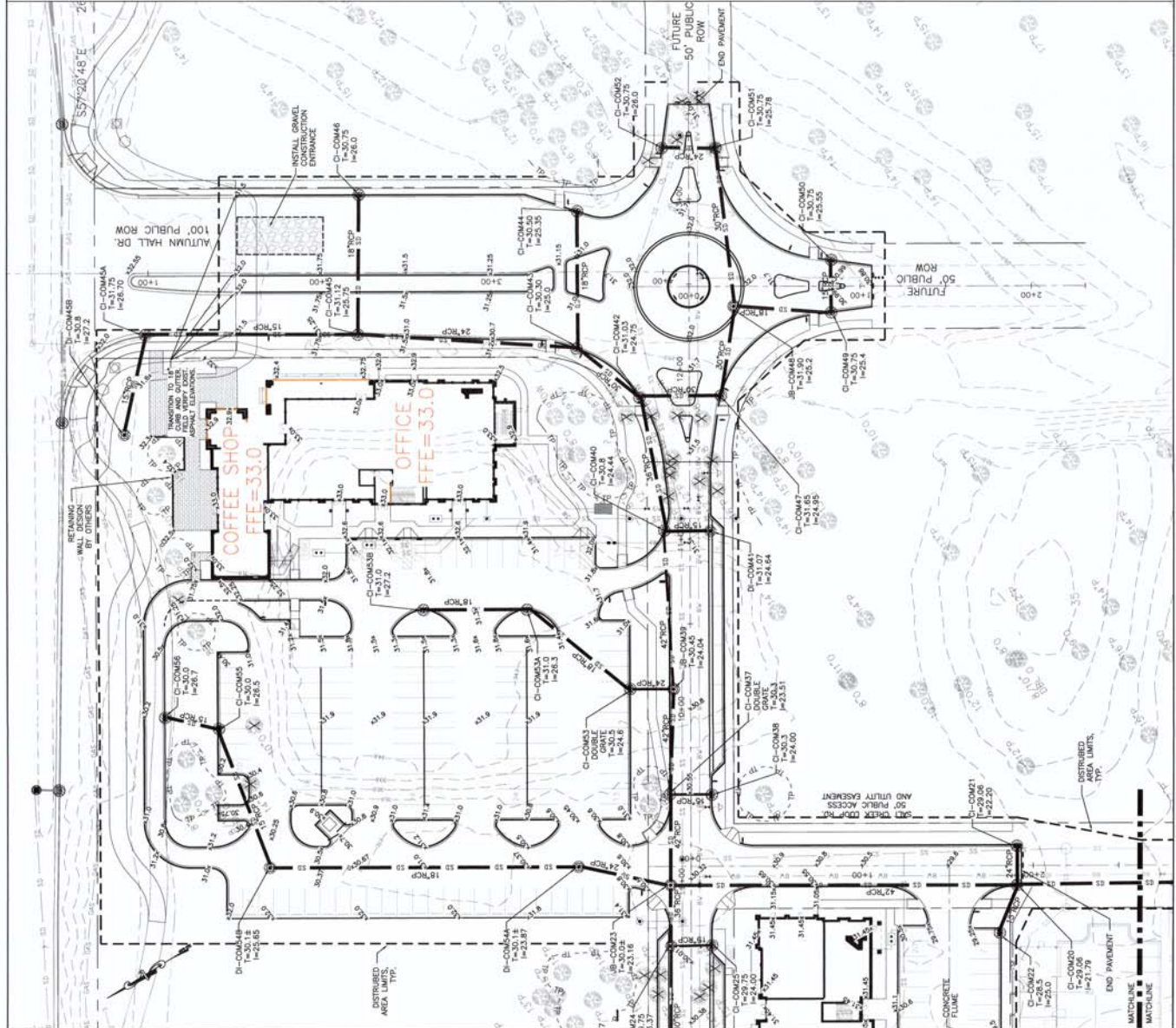
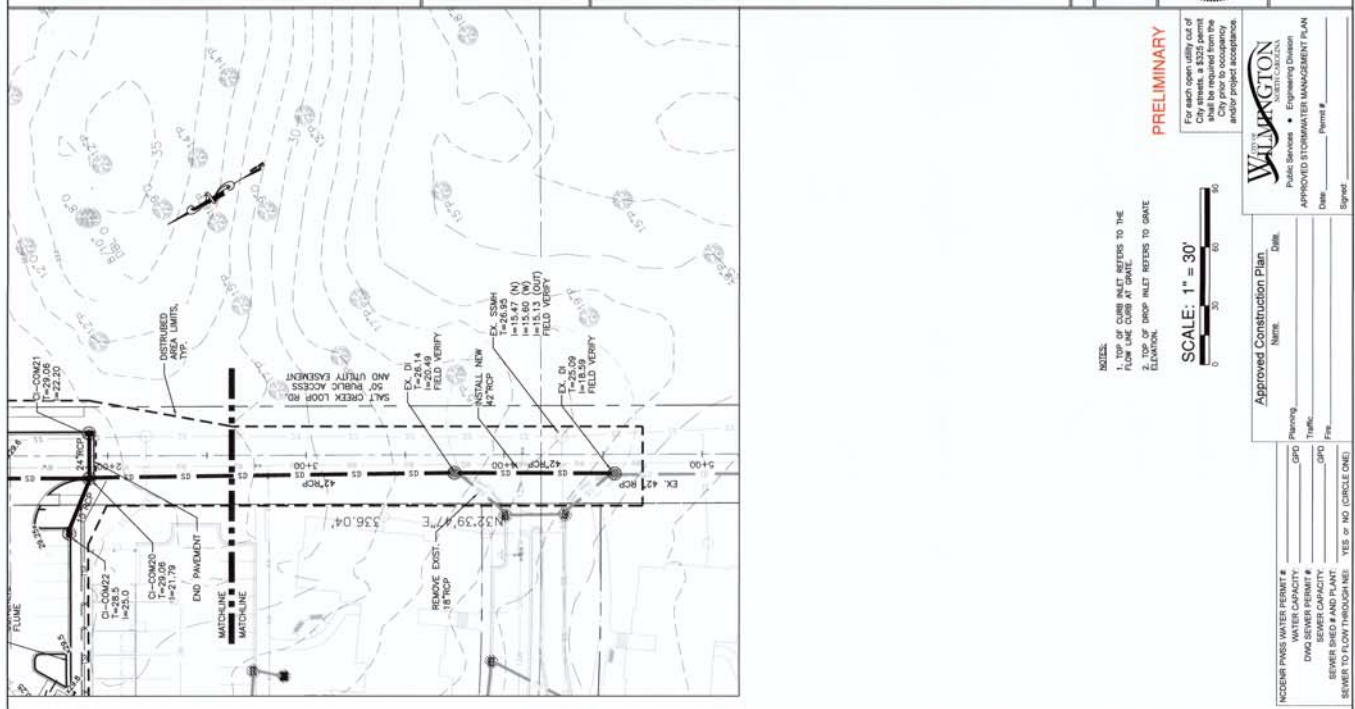
DEVELOPER
 WEB TRASK COMMERCIAL, LLC
 CARE FEAR COMMERCIAL, LLC
 1851 MILITARY CUTOFF RD.
 WILMINGTON, NC 28405
 344-1010 (P) 622-4657 (CELL)
 NEW HANOVER COUNTY

PRELIMINARY
 For each open utility cut of City streets, a \$25 permit shall be required from the City of Wilmington, NC, and any other project acceptance.

Approved Construction Plan
 Name: _____
 Title: _____
 Date: _____
 Signed: _____

NOCCOR PANS WATER PERMIT # _____
 WATER CAPACITY _____
 DWS DESEWER PERMIT # _____
 SEWER BRICK AND PAINT _____
 SEWER TO FLOW THROUGH: YES OR NO (CIRCLE ONE)

NOTES:
 1. TOP OF CURB INLET REFERS TO THE FLOW LINE CURB AT GATE.
 ELEVATION DROP INLET REFERS TO GATE ELEVATION.

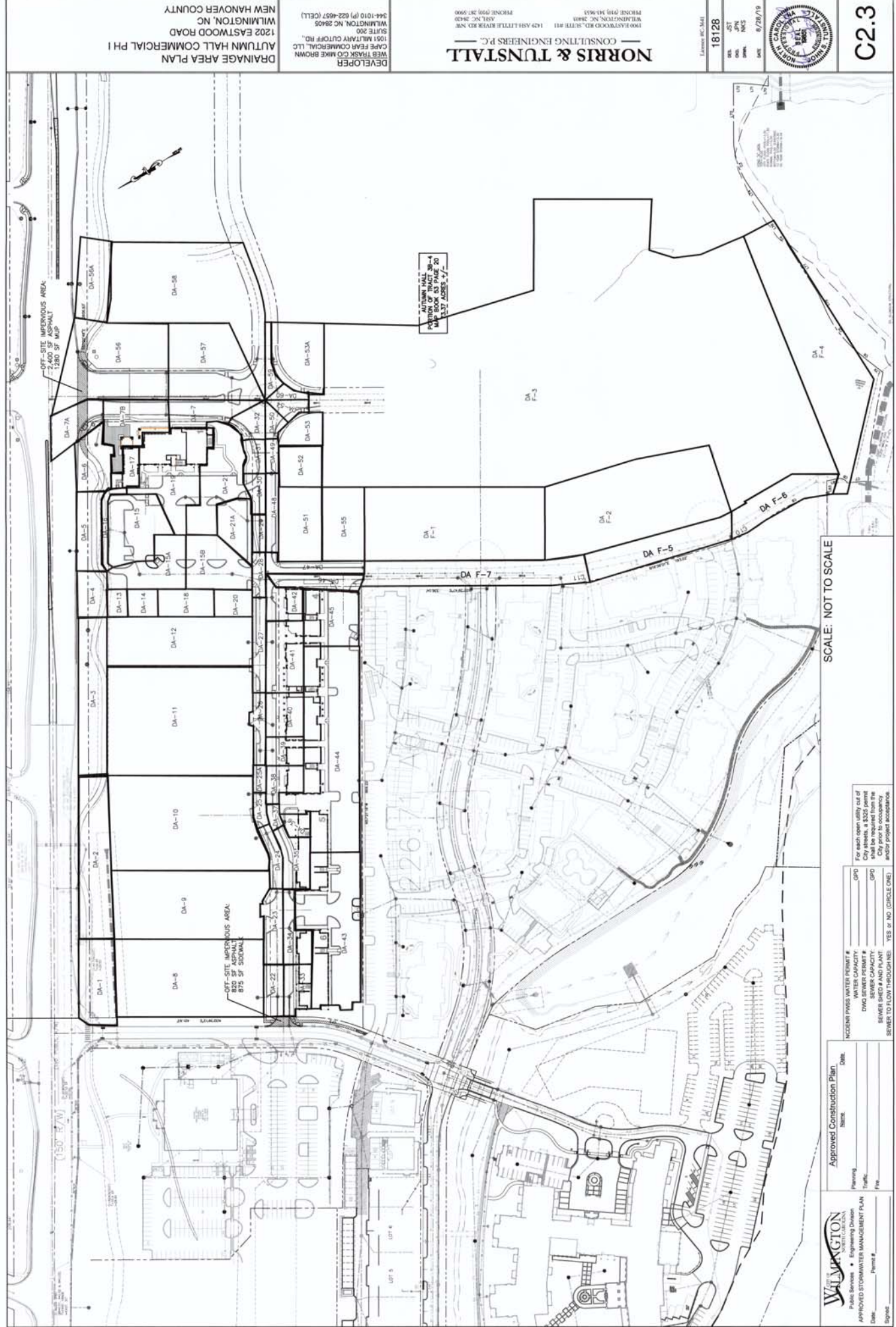




18128
 DATE: 8/28/19
 PROJECT: AUTUMN HALL COMMERCIAL PH I
 DRAWING: DRAINAGE AREA PLAN

NORRIS & TUNSTALL
 CONSULTING ENGINEERS P.C.
 1900 EASTWOOD RD., SUITE 200
 WILMINGTON, NC 28405
 PHONE: 910.343.9633
 FAX: 910.343.9638

DEVELOPER
 WEB TASK CO MIKE BROWN
 CAFE FEARS COMMERCIAL, LLC
 105A MILITARY CUTOFF RD.
 SUITE 200
 WILMINGTON, NC 28405
 344-1010 (P) 622-4657 (CELL)
NEW HANOVER COUNTY



SCALE: NOT TO SCALE

For each open utility cut of
 City streets, a \$325 permit
 fee is required from the
 City prior to installation
 and/or project acceptance.

NOCCOR PASSES WATER PERMIT # _____
 WATER CAPACITY _____
 DWS SEWER PERMIT # _____
 SEWER SIZES AND PLANT _____
 SEWER TO FLOW THROUGH: YES or NO (CIRCLE ONE)

WILMINGTON
 Public Services • Engineering Division
APPROVED DRAINAGE MANAGEMENT PLAN
 Date: _____ Permit # _____
 Signature: _____
Approved Construction Plan
 Name: _____ Date: _____
 Planning Fee: _____
 Title: _____
 File: _____

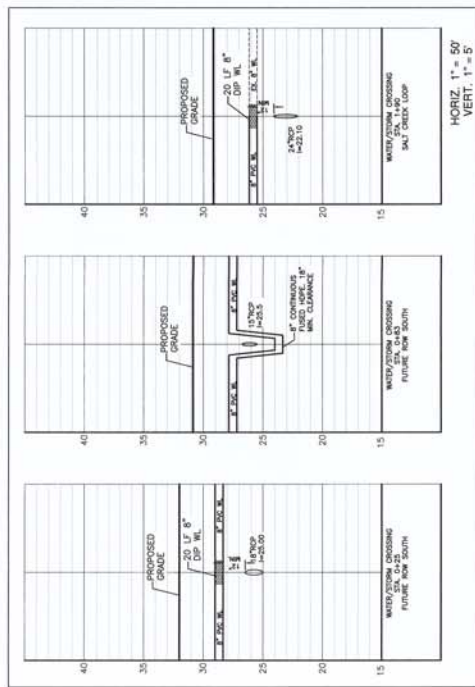
DEVELOPER
WEB TASK COMMERCIAL, LLC
CAPE FEAR COMMERCIAL, LLC
1051 MILITARY CUTOFF RD.,
WILMINGTON, NC 28405
344-1010 (P) 622-4687 (CELL)

NORRIS & TUNSTALL
CONSULTING ENGINEERS P.C.
1629 EASTWOOD RD., SUITE 101
WILMINGTON, NC 28403
PHONE: 910.343.6633
FAX: 910.343.1819

18128
DATE: 10/07/19



C3.2



HORIZ. 1" = 50'
VERT. 1" = 5'



*** ALL SEWER IS PRIVATE.
ALL WATER IS PUBLIC.**

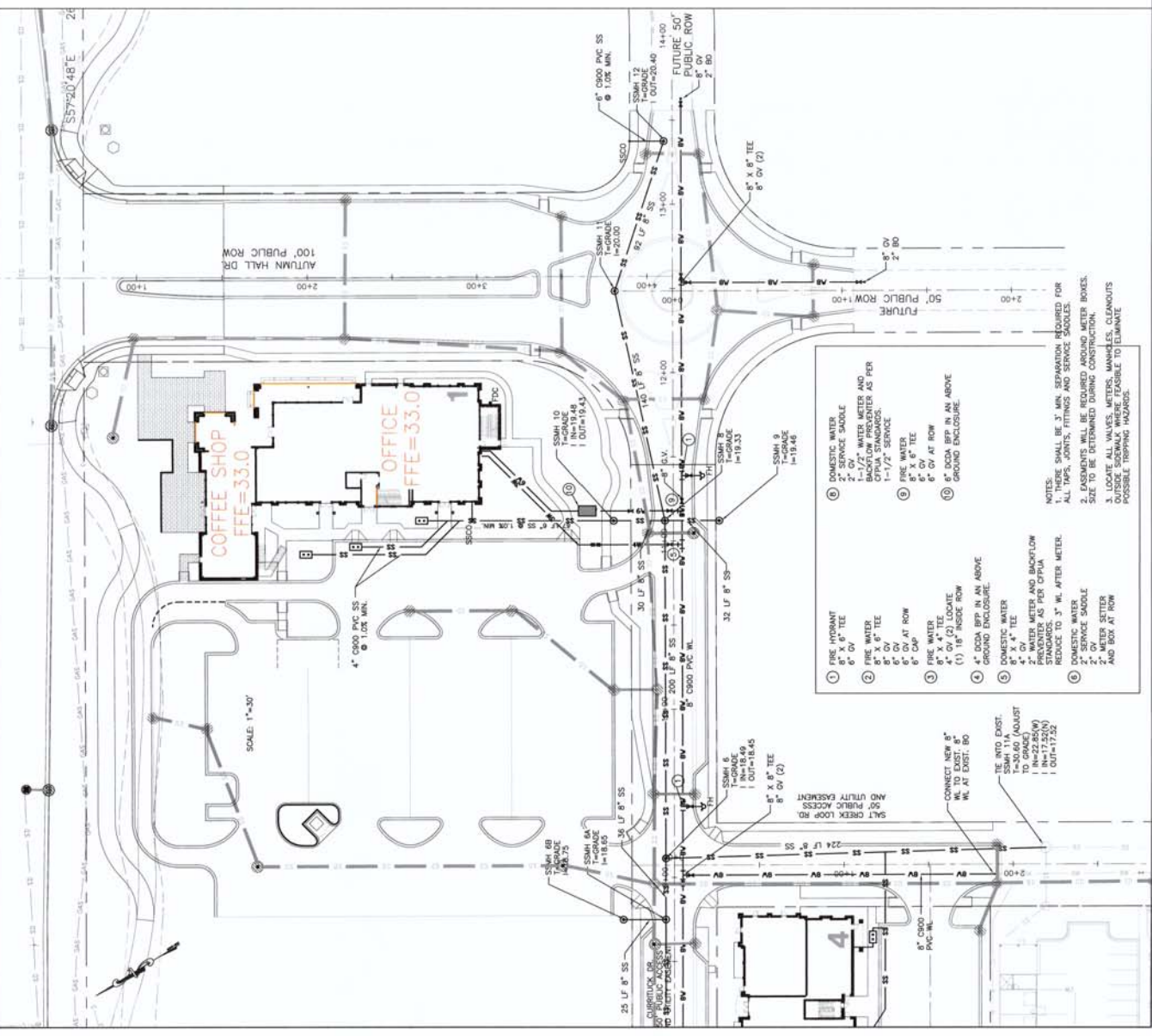
PRELIMINARY

For each open utility out of ground, a 505 permit shall be obtained from the City prior to occupancy and/or project acceptance.

APPROVED FOR WATER MANAGEMENT PLAN
DATE: _____
DRAWN BY: _____
CHECKED BY: _____
DATE: _____

APPROVED CONSTRUCTION PLAN
DATE: _____
DRAWN BY: _____
CHECKED BY: _____
DATE: _____

NEAREST PAVES WATER PERMIT # _____
WATER CAPACITY _____
DRAINAGE PERMIT # _____
SEWER CAPACITY _____
SEWER SHED # AND PLANT _____
SEWER TO FLOW THROUGH (NE, YES or NO, CIRCLE ONE)

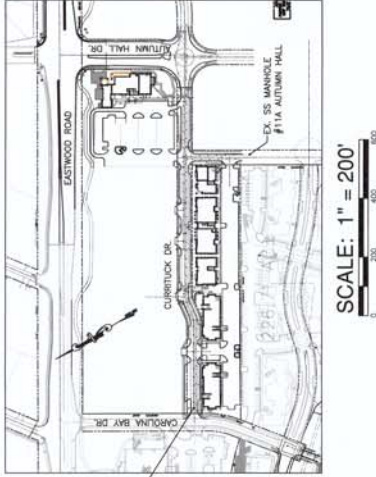


- 1. FIRE HYDRANT
8" x 8" TEE
6" CV
- 2. FIRE WATER
1-1/2" WATER METER AND
BACKFLOW PREVENTER AS PER
CITY SPECIFICATIONS.
8" x 8" TEE
6" CV AT ROW
- 3. FIRE WATER
8" x 8" TEE
6" CV AT ROW
- 4. 8" ROOM SEP IN AN ABOVE
GROUND ENCLOSURE
- 5. DOMESTIC WATER
2" SERVICE SADDLE
1-1/2" WATER METER AND
BACKFLOW PREVENTER AS PER
CITY SPECIFICATIONS.
8" x 8" TEE
6" CV AT ROW
- 6. DOMESTIC WATER
2" SERVICE SADDLE
1-1/2" WATER METER AND
BACKFLOW PREVENTER AS PER
CITY SPECIFICATIONS.
8" x 8" TEE
6" CV AT ROW
- 7. METER SETTER
AND BOX AT ROW
- 8. FIRE WATER
8" x 8" TEE
6" CV AT ROW
- 9. 8" ROOM SEP IN AN ABOVE
GROUND ENCLOSURE
- 10. 8" ROOM SEP IN AN ABOVE
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- 98. 8" ROOM SEP IN AN ABOVE
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- 99. 8" ROOM SEP IN AN ABOVE
GROUND ENCLOSURE
- 100. 8" ROOM SEP IN AN ABOVE
GROUND ENCLOSURE

NOTES:
1. ALL TAPS, ADJUSTS, FITTINGS AND SERVICE SADDLES
SIZE TO BE DETERMINED DURING CONSTRUCTION.
2. EASMENTS WILL BE REQUIRED AROUND METER BOXES.
3. LOCATE ALL VALVES, METERS, MANHOLES, CLEANOUTS
OUTSIDE SIDEWALK WHERE FEASIBLE TO ELIMINATE
POSSIBLE TRIPPING HAZARDS.

AUTUMN HALL COMMERCIAL PH 1

WATER AND SANITARY SEWER
 WILMINGTON, NC
 NEW HANOVER COUNTY
 07/26/19



INDEX OF SHEETS

COVER SHEET AND SEWER PLAN AND PROFILE
 PR2 WATER AND SEWER PLAN AND PROFILE
 SS1: UTILITY DETAILS - SEWER
 SS2: UTILITY DETAILS - WATER
 WS1: UTILITY DETAILS TYPICAL WATER AND SEWER
 WS2: UTILITY DETAILS TYPICAL WATER AND SEWER

WATER/SEWER DEMANDS

COFFEE/OFFICE/RESTAURANT = 6,721 GPD
 OFFICE 9,995 SF (100 GPD/1,000 SF)=1,000 GPD
 RESTAURANT 5,000 SF WITH 100 SEATS (40 GPD/100 SF)=200 GPD
 WALKED USE = 16,187 GPD
 RESIDENTIAL 60 UNITS 162 BEDROOM (240 GPD/UNIT)=13,440 GPD
 RETAIL 2,873 SF (100 GPD/1,000 SF)=2,873 GPD
 RESIDENTIAL = 13,440 GPD
 58 UNITS 162 BEDROOM (240 GPD/UNIT)=13,440 GPD
 TOTAL = 35,948 GPD

NORRIS & TUNSTALL
 CONSULTING ENGINEERS P.C.

190 EASTWOOD RD, SUITE #11
 WILMINGTON, NC 28403
 PHONE: (910) 336-3900

DEVELOPER
 WEBB TRASK CO MIKE BROWN
 CAPE FEAR COMMERCIAL, LLC
 1051 MILITARY CUTOFF RD.,
 SUITE 200
 WILMINGTON, NC 28405
 344-1010 (P) 622-4657 (CELL)



QUANTITIES

	SIZE	LENGTH
SEWER (PRIVATE)	8"	1,547 LF
WATER (PUBLIC)	8"	1,660 LF
	6" FH	35 LF

ALL SANITARY SEWER LINE IS PRIVATE
 ALL WATER LINE IS PUBLIC
 NOT PART OF A PHASED PROJECT



NORRIS & TUNSTALL
CONSULTING ENGINEERS P.C.
1300 SWEETWOOD BLVD., SUITE 101
WILMINGTON, NC 28405
PHONE: 910.343.9643
FAX: 910.343.9643

DEVELOPER
WEB TRASK CO. LIKIE BROWN
CAFE FEAR COMMERCIAL, LLC
105 MILITARY CUTOFF RD.
WILMINGTON, NC 28405
344-1010 (P) 622-4657 (CELL)

LAYOUT PLAN
AUTUMN HALL COMMERCIAL PH I
1202 EASTWOOD ROAD
WILMINGTON, NC
NEW HANOVER COUNTY

DATE: 10/01/19
SCALE: 1" = 30'
PROJECT NO: 18128

For each open utility cut of city streets, a \$325 permit shall be required from the City of Wilmington. The permit fee shall be \$100 per linear foot of utility cut. The permit fee shall be \$200 for each 10' length of utility cut. The permit fee shall be \$300 for each 15' length of utility cut. The permit fee shall be \$400 for each 20' length of utility cut. The permit fee shall be \$500 for each 25' length of utility cut. The permit fee shall be \$600 for each 30' length of utility cut. The permit fee shall be \$700 for each 35' length of utility cut. The permit fee shall be \$800 for each 40' length of utility cut. The permit fee shall be \$900 for each 45' length of utility cut. The permit fee shall be \$1000 for each 50' length of utility cut.

Approved Construction Plan
Name: _____ Date: _____
Permitting: _____
Traffic: _____
Sewer: _____
Water: _____
Other: _____

Approved Construction Plan
Name: _____ Date: _____
Permitting: _____
Traffic: _____
Sewer: _____
Water: _____
Other: _____

Approved Construction Plan
Name: _____ Date: _____
Permitting: _____
Traffic: _____
Sewer: _____
Water: _____
Other: _____

Approved Construction Plan
Name: _____ Date: _____
Permitting: _____
Traffic: _____
Sewer: _____
Water: _____
Other: _____

Approved Construction Plan
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Other: _____

Approved Construction Plan
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Permitting: _____
Traffic: _____
Sewer: _____
Water: _____
Other: _____

Approved Construction Plan
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Traffic: _____
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Water: _____
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Approved Construction Plan
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Traffic: _____
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Approved Construction Plan
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Permitting: _____
Traffic: _____
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Approved Construction Plan
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Permitting: _____
Traffic: _____
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Other: _____

Approved Construction Plan
Name: _____ Date: _____
Permitting: _____
Traffic: _____
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Water: _____
Other: _____

Approved Construction Plan
Name: _____ Date: _____
Permitting: _____
Traffic: _____
Sewer: _____
Water: _____
Other: _____

Approved Construction Plan
Name: _____ Date: _____
Permitting: _____
Traffic: _____
Sewer: _____
Water: _____
Other: _____

Approved Construction Plan
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Permitting: _____
Traffic: _____
Sewer: _____
Water: _____
Other: _____

Approved Construction Plan
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Permitting: _____
Traffic: _____
Sewer: _____
Water: _____
Other: _____

Approved Construction Plan
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Permitting: _____
Traffic: _____
Sewer: _____
Water: _____
Other: _____

Approved Construction Plan
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Permitting: _____
Traffic: _____
Sewer: _____
Water: _____
Other: _____

Approved Construction Plan
Name: _____ Date: _____
Permitting: _____
Traffic: _____
Sewer: _____
Water: _____
Other: _____

Approved Construction Plan
Name: _____ Date: _____
Permitting: _____
Traffic: _____
Sewer: _____
Water: _____
Other: _____

Approved Construction Plan
Name: _____ Date: _____
Permitting: _____
Traffic: _____
Sewer: _____
Water: _____
Other: _____

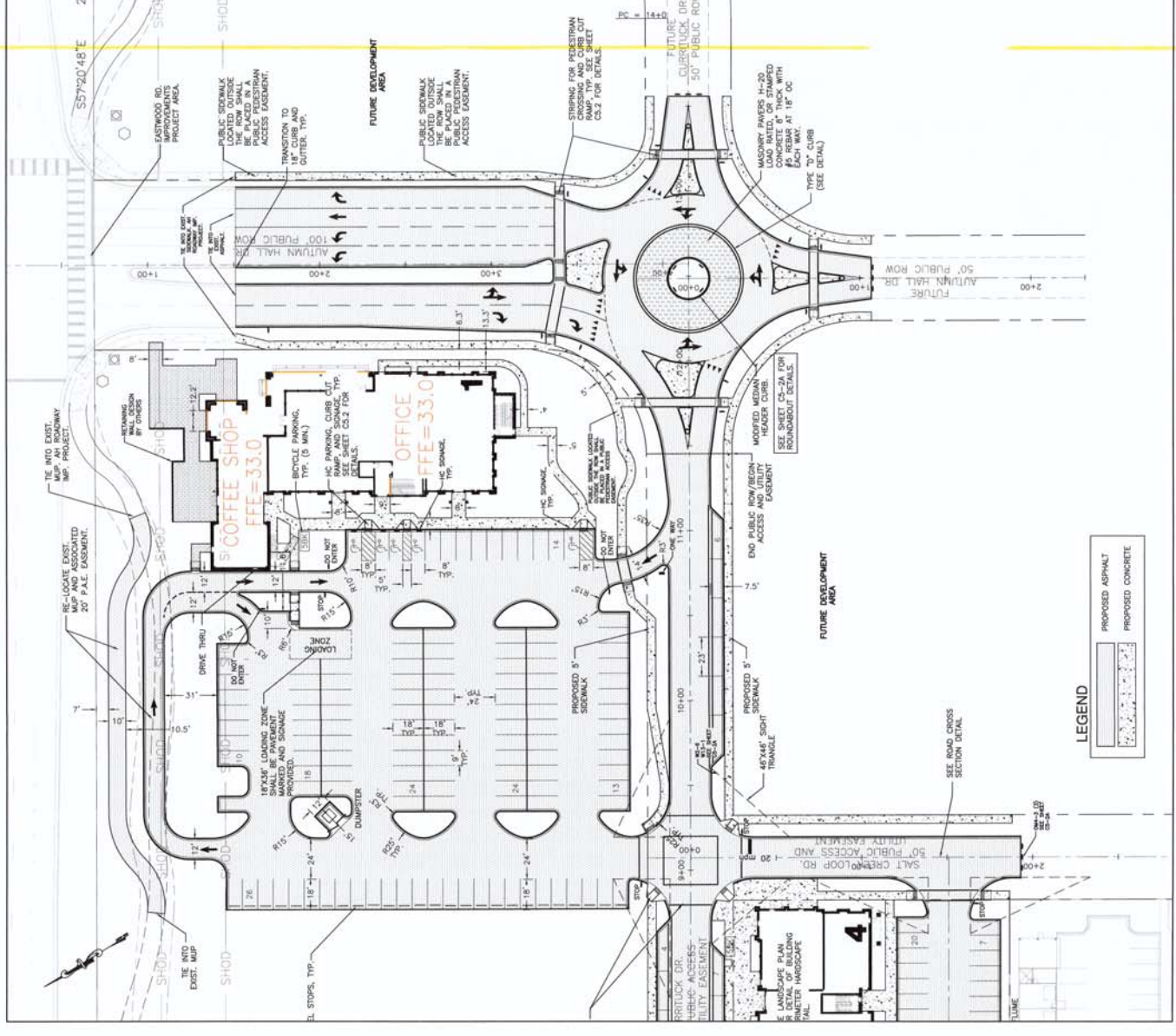
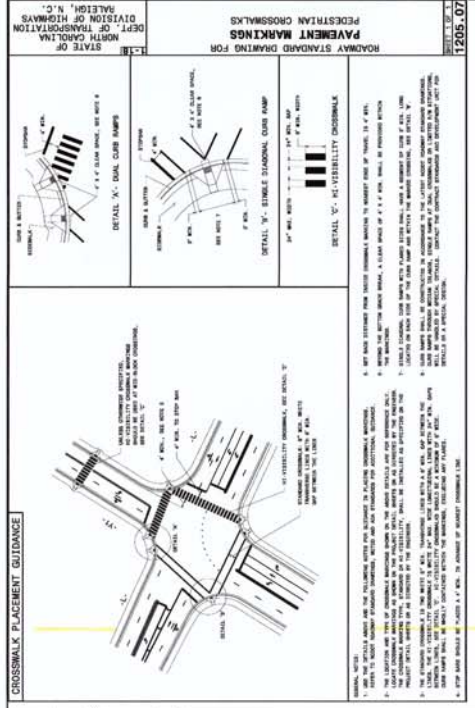
Approved Construction Plan
Name: _____ Date: _____
Permitting: _____
Traffic: _____
Sewer: _____
Water: _____
Other: _____

Approved Construction Plan
Name: _____ Date: _____
Permitting: _____
Traffic: _____
Sewer: _____
Water: _____
Other: _____

Approved Construction Plan
Name: _____ Date: _____
Permitting: _____
Traffic: _____
Sewer: _____
Water: _____
Other: _____

Approved Construction Plan
Name: _____ Date: _____
Permitting: _____
Traffic: _____
Sewer: _____
Water: _____
Other: _____

Approved Construction Plan
Name: _____ Date: _____
Permitting: _____
Traffic: _____
Sewer: _____
Water: _____
Other: _____



LEGEND
PROPOSED ASPHALT
PROPOSED CONCRETE



License No. 18128	JST
DESIGNER	JST
CHECKED BY	JPN
DATE	10/20/19

For each open utility out of ground, a \$25 permit shall be required from the City of Wilmington for the utility and/or project acceptance.

WILMINGTON, NORTH CAROLINA
Public Services • Engineering Division
APPROVED STORMWATER MANAGEMENT PLAN

Signed: _____
Date: 10/20/19
Approved Construction Plan

Planned: _____
Traffic: _____
File: _____

NOISE/PAUSE WATER PERMIT # _____
WATER CAPACITY _____ GPD

DVD SEWER PERMIT # _____
SEWER CAPACITY _____ GPD

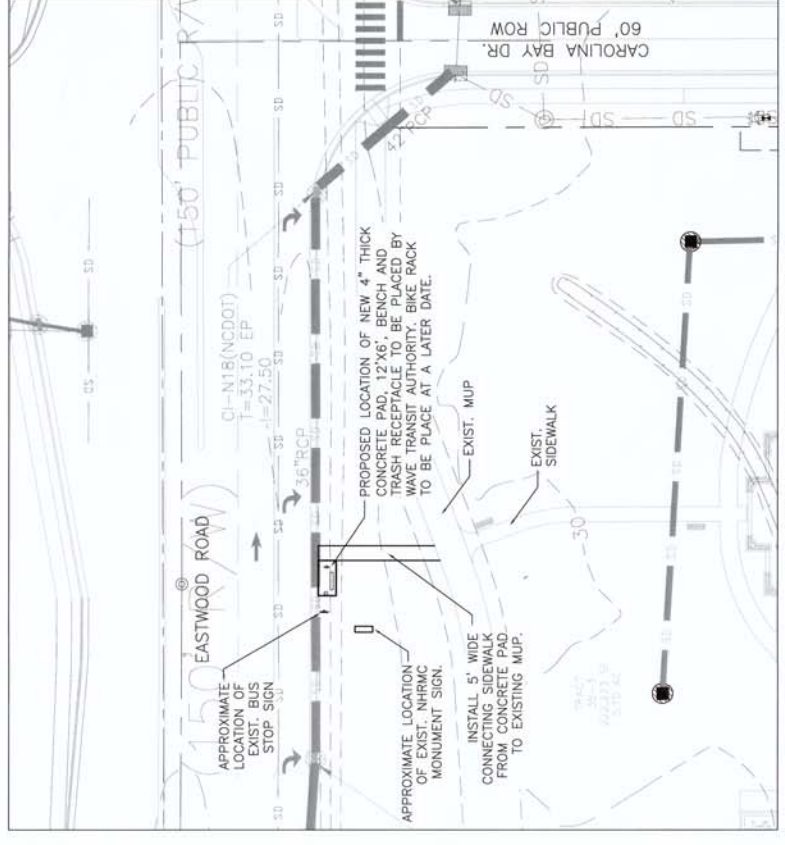
SEWER PERMIT # _____
SEWER CAPACITY _____ GPD

SEWER TO FLOW THROUGH NEI: YES or NO (CIRCLE ONE)

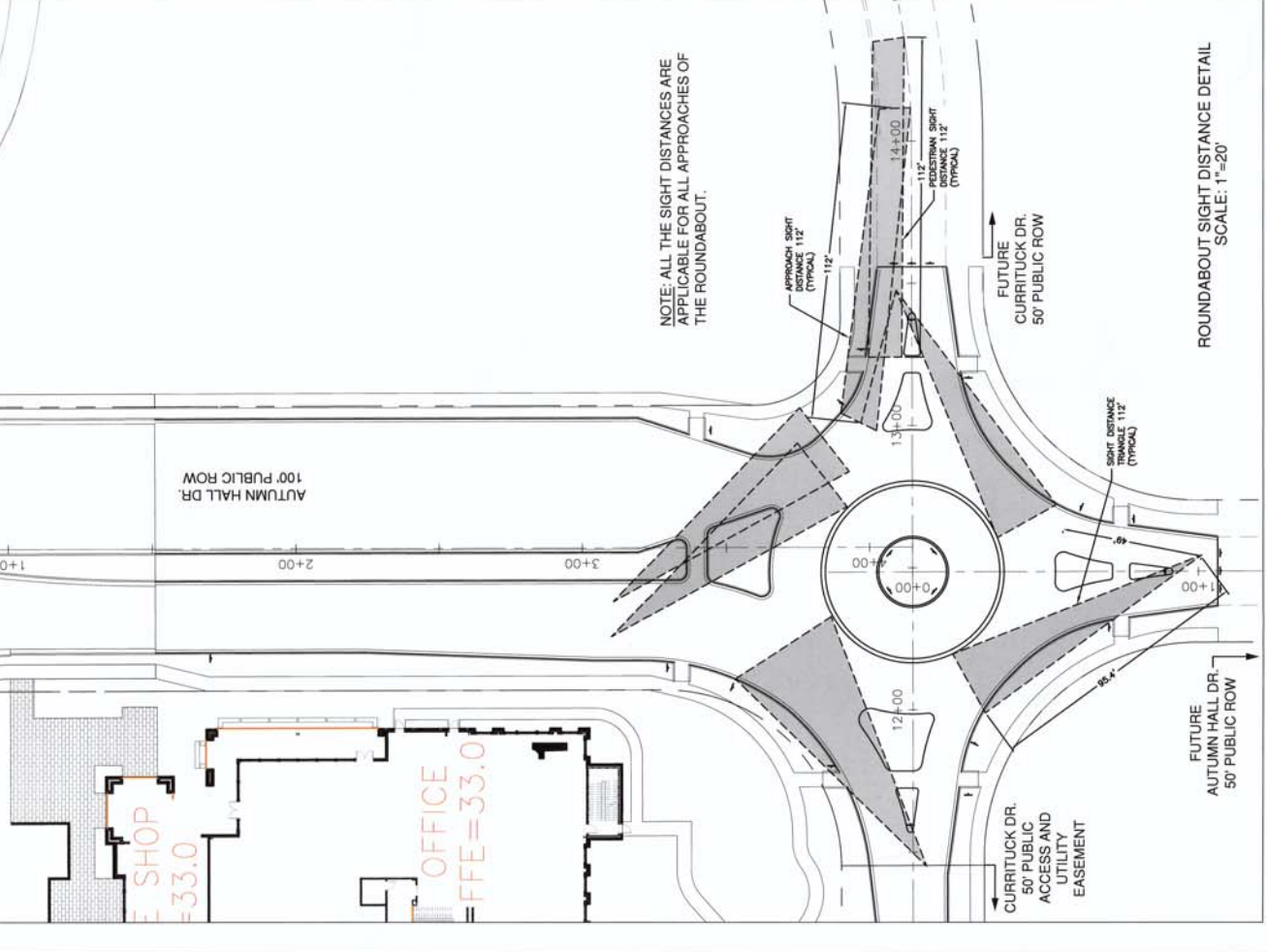
NORRIS & TUNSTALL
CONSULTING ENGINEERS P.C.
1800 EASTWOOD RD., SUITE 101
WILMINGTON, NC 28405
PHONE: 910.343.9633
FAX: 910.343.9630

DEVELOPER
WEB TRASK CO MIKE BROWN
CAFE FEAR COMMERCIAL, LLC
150 MILITARY CUTOFF RD.
SUITE 200
WILMINGTON, NC 28405
344-1010 (P) 622-4657 (CELL)

NOTES AND DETAILS
AUTUMN HALL COMMERCIAL PH 1
1202 EASTWOOD ROAD
WILMINGTON, NC
NEW HANOVER COUNTY



PROPOSED BUS STOP IMPROVEMENTS
SCALE: 1"=20'



C5.2D



18128
DATE: 8/29/19
SIGNED: [Signature]

WILMINGTON
PUBLIC SERVICE * ENGINEERING DESIGN
APPROVED STORMWATER MANAGEMENT PLAN
Date: _____ Permit # _____
SIGNED: _____
Approved Construction Plan
Name: _____
Title: _____
Phone: _____
Fax: _____

For each open utility cut of
City streets, a \$325 permit
is required from the
City of Wilmington.
City Engineer's Office
and/or project acceptance.

MODERN PAVED WATER PERMIT # _____
WATER CAPACITY: _____
DWD SEWER PERMIT # _____
TRAFFIC: _____
SEWER BEDS AND PLANT: _____
SEWER TO FLOW THROUGH: YES NO (CIRCLE ONE)

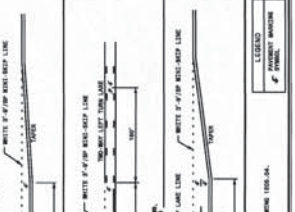
NORRIS & TUNSTALL
CONSULTING ENGINEERS P.C.
1001 MILITARY RD., SUITE 200
WILMINGTON, NC 28405
PHONE: 910.343.9633
FAX: 910.343.9630

DEVELOPER
WEB TASKS CO LAKE BROWN
CAFE REAR COURTYARD
1001 MILITARY RD., SUITE 200
WILMINGTON, NC 28405
PHONE: 910.343.9633

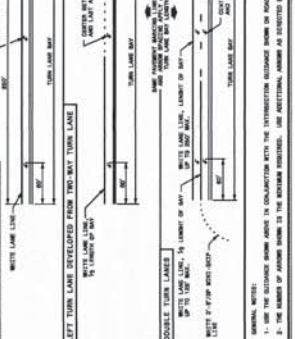
NOTES AND DETAILS
AUTUMN HALL COMMERCIAL PH I
1202 EASTWOOD ROAD
WILMINGTON, NC
NEW HANOVER COUNTY



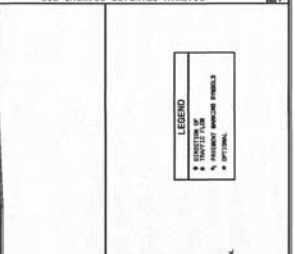
CONTINUOUS LINES
EDGE LINE
LANE LINE
CENTER LINE
GOOSE LINE
DIAGONAL LINE
CROSSWALK LINE
STOP OR TRANSVERSE BAR



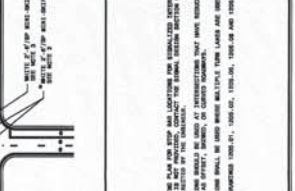
EDGE LINE OFFSET DETAIL
CENTER LINE OFFSET DETAIL
LANE LINE OFFSET DETAIL



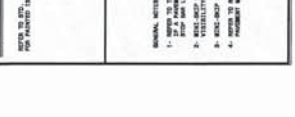
TWO-WAY UNDIVIDED ROADWAY
TWO-WAY UNDIVIDED ROADWAY WITH TWO-WAY LEFT TURN LANE
MULTI-LANE ROADWAY



10'-30'/8P STRIP LINE
3'-3'/8P MINI-SKIP LINE
5'-9'/8P MINI-SKIP LINE



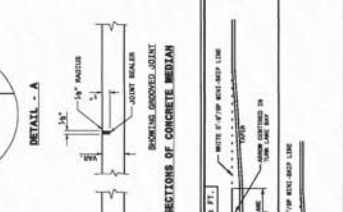
2'-4'/8P MINI-SKIP LINE
2'-4'/8P STRIP LINE



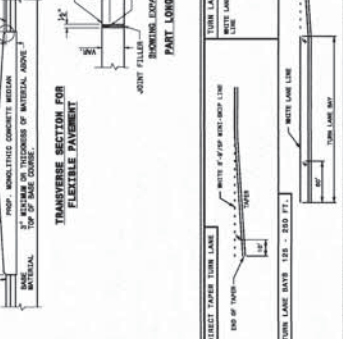
PARTIAL LONGITUDINAL SECTIONS OF CONCRETE PAVEMENT
MONOLITHIC CONCRETE ISLAND (SURFACE MOUNTED)
EXPANSION JOINT



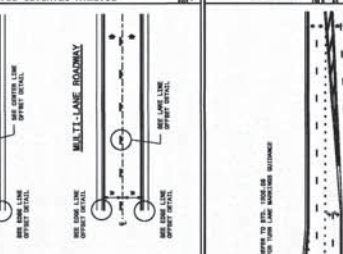
CONCRETE MOUNTABLE MEDIAN
FLEXIBLE PAVEMENT



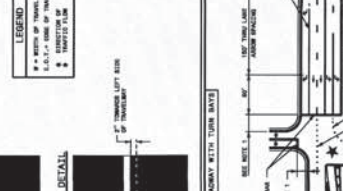
TRANSVERSE SECTION OF CONCRETE MEDIAN
TRANSVERSE SECTION FOR FLEXIBLE PAVEMENT



PAVEMENT MARKINGS AT INTERSECTIONS
DOUBLE TURN LANES
LEFT TURN LANE DEVELOPED FROM TWO-WAY TURN LANE



PAVEMENT MARKINGS AT INTERSECTIONS
DOUBLE TURN LANES
LEFT TURN LANE DEVELOPED FROM TWO-WAY TURN LANE



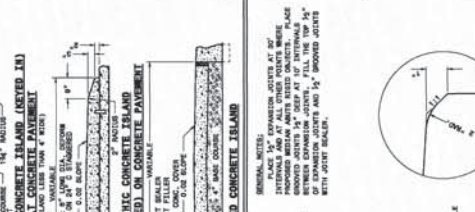
PAVEMENT MARKINGS AT INTERSECTIONS
DOUBLE TURN LANES
LEFT TURN LANE DEVELOPED FROM TWO-WAY TURN LANE



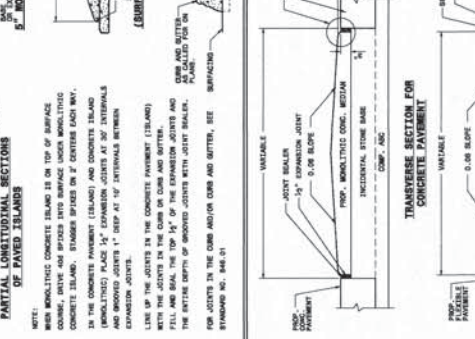
PAVEMENT MARKINGS AT INTERSECTIONS
DOUBLE TURN LANES
LEFT TURN LANE DEVELOPED FROM TWO-WAY TURN LANE



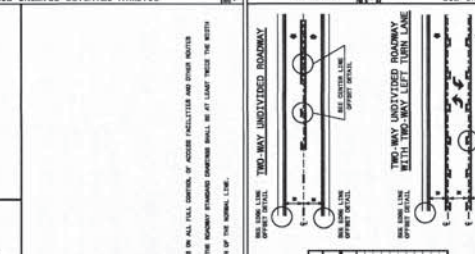
CONCRETE ISLANDS
EXPANSION JOINTS ON CONCRETE PAVEMENT



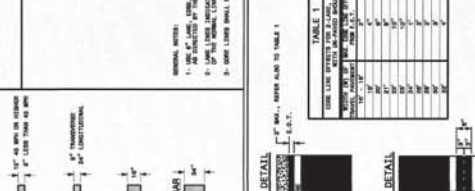
CONCRETE ISLANDS
EXPANSION JOINTS ON CONCRETE PAVEMENT



CONCRETE ISLANDS
EXPANSION JOINTS ON CONCRETE PAVEMENT



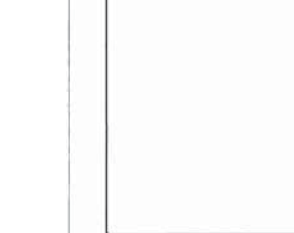
CONCRETE ISLANDS
EXPANSION JOINTS ON CONCRETE PAVEMENT



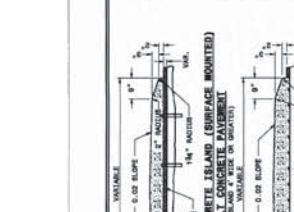
CONCRETE ISLANDS
EXPANSION JOINTS ON CONCRETE PAVEMENT



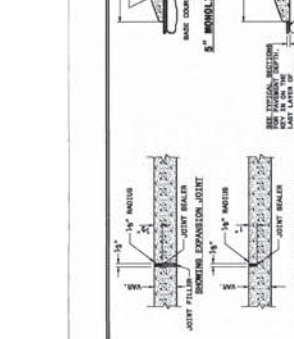
CONCRETE ISLANDS
EXPANSION JOINTS ON CONCRETE PAVEMENT



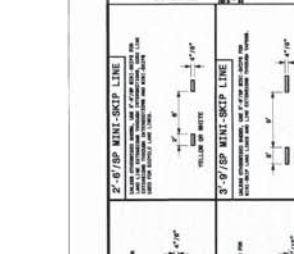
CONCRETE ISLANDS
EXPANSION JOINTS ON CONCRETE PAVEMENT



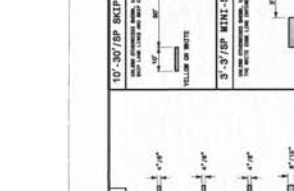
CONCRETE ISLANDS
EXPANSION JOINTS ON CONCRETE PAVEMENT



CONCRETE ISLANDS
EXPANSION JOINTS ON CONCRETE PAVEMENT



CONCRETE ISLANDS
EXPANSION JOINTS ON CONCRETE PAVEMENT



CONCRETE ISLANDS
EXPANSION JOINTS ON CONCRETE PAVEMENT



CONCRETE ISLANDS
EXPANSION JOINTS ON CONCRETE PAVEMENT



18128
 License No. 18128
 State of North Carolina

For each open utility cut of City streets, a \$300 permit fee shall be required from the contractor. This fee shall be used for the repair and maintenance of any project acceptances.

Public Services • Engineering Division
 APPROVED STORMWATER MANAGEMENT PLAN
 Date: _____ Permit # _____
 Signed: _____
 Approved Construction Plan
 Name: _____
 Title: _____
 Date: _____

NORRIS & TUNSTALL
 CONSULTING ENGINEERS, P.C.
 1906 EASTWATER DR. SUITE 111
 WILMINGTON, NC 28405
 PHONE: 910 341-9633

DEVELOPER
 WEB TRASK COMPANY
 1051 MILITARY CUTOFF RD.
 SUITE 200
 WILMINGTON, NC 28405
 910 822-4657 (CELL)

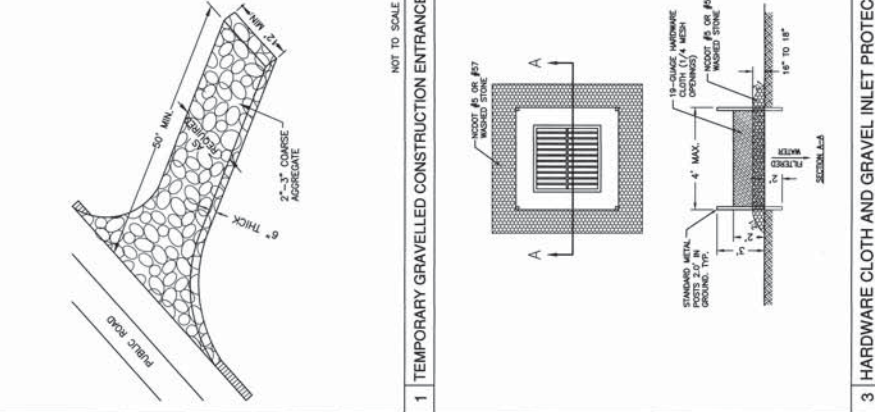
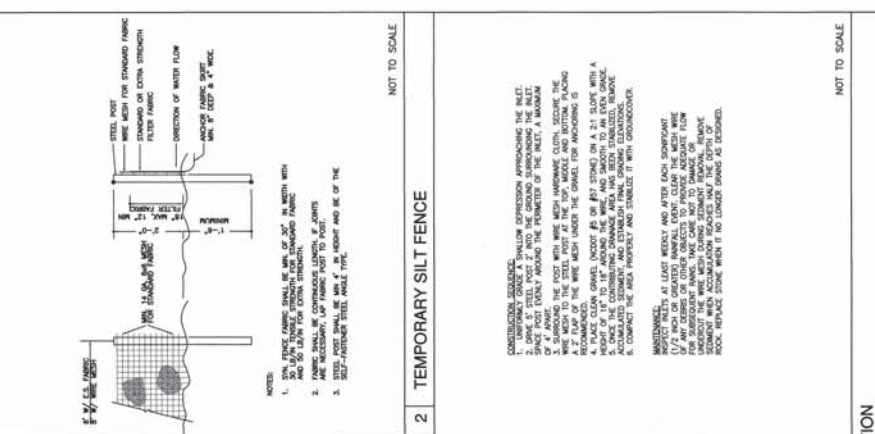
NOTES AND DETAILS
 AUTUMN HALL COMMERCIAL PH I
 1202 EASTWOOD ROAD
 WILMINGTON, NC
 NEW HANOVER COUNTY

EROSION CONTROL NOTES AND MAINTENANCE PLAN:

1. EROSION AND SEDIMENT CONTROL MEASURES WILL BE CHECKED DURING CONSTRUCTION. MEASURES WILL BE MAINTAINED THROUGHOUT CONSTRUCTION AND THROUGHOUT CONSTRUCTION. MEASURES WILL BE MAINTAINED THROUGHOUT CONSTRUCTION AND THROUGHOUT CONSTRUCTION.
2. ALL EROSION CONTROL MEASURES SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION AND THROUGHOUT CONSTRUCTION.
3. SEDIMENT WILL BE REMOVED FROM THE SEDIMENT BASIN WHEN THE SEDIMENT CAPACITY HAS BEEN FULLY FILLED WITH SEDIMENT. THE SEDIMENT CAPACITY HAS BEEN FULLY FILLED WITH SEDIMENT.
4. SEDIMENT WILL BE REMOVED FROM THE SEDIMENT BASIN WHEN THE SEDIMENT CAPACITY HAS BEEN FULLY FILLED WITH SEDIMENT.
5. SEDIMENT WILL BE REMOVED FROM THE SEDIMENT BASIN WHEN THE SEDIMENT CAPACITY HAS BEEN FULLY FILLED WITH SEDIMENT.
6. SEDIMENT WILL BE REMOVED FROM THE SEDIMENT BASIN WHEN THE SEDIMENT CAPACITY HAS BEEN FULLY FILLED WITH SEDIMENT.
7. SEDIMENT WILL BE REMOVED FROM THE SEDIMENT BASIN WHEN THE SEDIMENT CAPACITY HAS BEEN FULLY FILLED WITH SEDIMENT.
8. SEDIMENT WILL BE REMOVED FROM THE SEDIMENT BASIN WHEN THE SEDIMENT CAPACITY HAS BEEN FULLY FILLED WITH SEDIMENT.
9. SEDIMENT WILL BE REMOVED FROM THE SEDIMENT BASIN WHEN THE SEDIMENT CAPACITY HAS BEEN FULLY FILLED WITH SEDIMENT.
10. SEDIMENT WILL BE REMOVED FROM THE SEDIMENT BASIN WHEN THE SEDIMENT CAPACITY HAS BEEN FULLY FILLED WITH SEDIMENT.

SEEDING MATERIAL	RATE (lb/1000 sq ft)	(lb/1000 sq ft)
FALL TURFGRASS	1.24	1.24
SEEDS PER ACRE	30	30
SEEDS PER ACRE	0.99	0.99
SEEDS PER ACRE	0.33	0.33

SEEDING NOTES:
 1. USE COMBINATION OF SEEDS AS LISTED UNLESS OTHERWISE SPECIFIED.
 2. USE COMBINATION OF SEEDS AS LISTED UNLESS OTHERWISE SPECIFIED.
 3. USE COMBINATION OF SEEDS AS LISTED UNLESS OTHERWISE SPECIFIED.



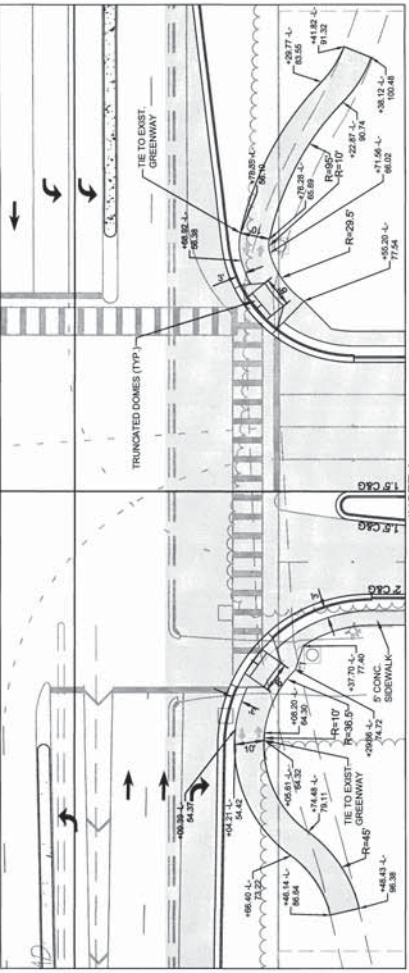
LEGEND

- PROPOSED FULL DEPTH PAVEMENT CONSTRUCTION
- PROPOSED MONOLITHIC CONCRETE ISLAND
- PROPOSED REMOVAL OF PAVEMENT (DOWN TO SUBGRADE)
- PROPOSED WHEELCHAIR RAMP

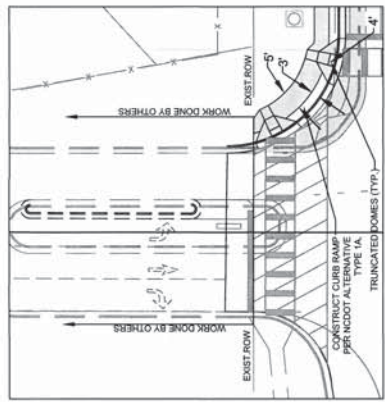
NOTE:
ALL RADIUS CALLOUTS ARE TO THE FACE OF CURB, UNLESS OTHERWISE NOTED.

**** MILLING NOTE**

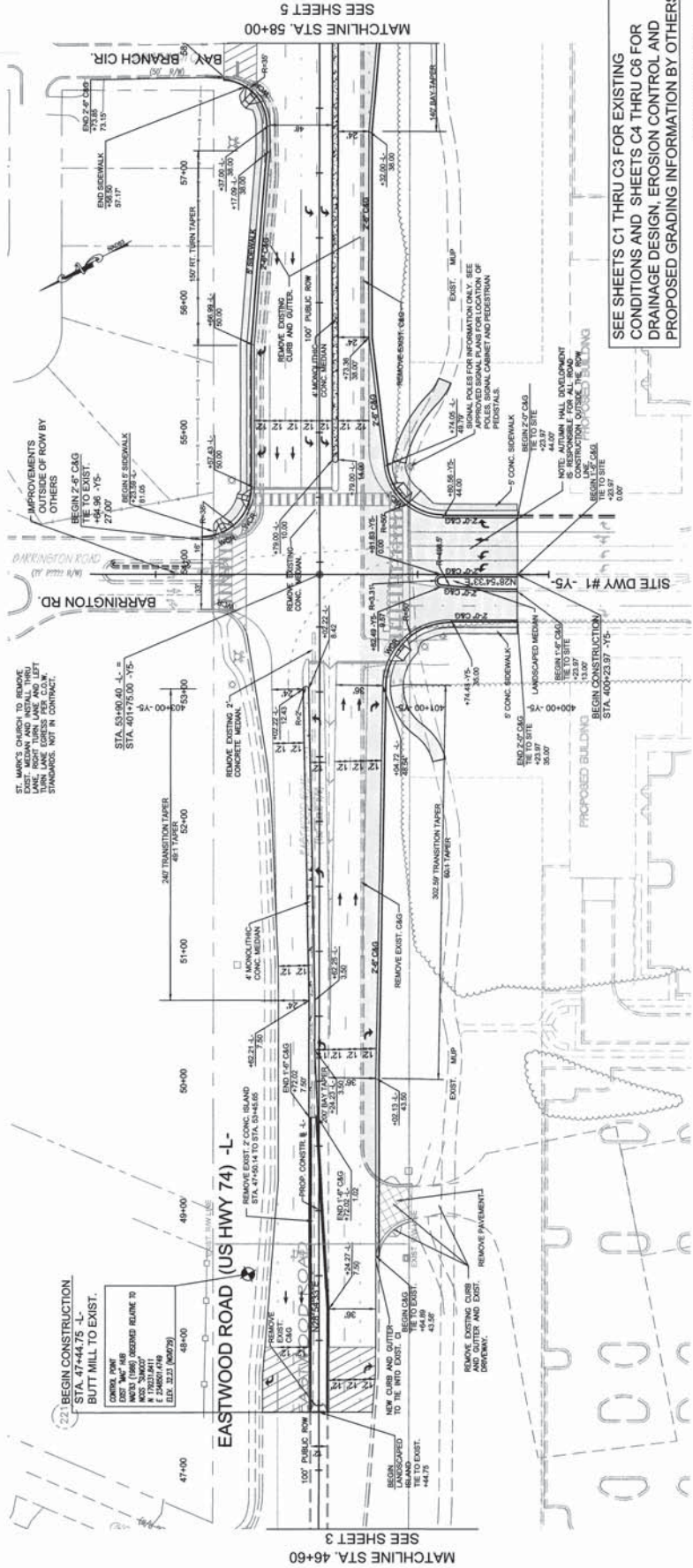
MILL 1-1/2" OF EXISTING PAVEMENT ON EASTWOOD ROAD (US HWY 74) FROM L-L STA. 47+45 TO L-L STA. 68+98



INSET A
SCALE: 1"=20'



INSET B
SCALE: 1"=20'



MATCHLINE STA. 46+60
SEE SHEET 3

MATCHLINE STA. 58+00
SEE SHEET 5

SEE SHEETS C1 THRU C3 FOR EXISTING CONDITIONS AND SHEETS C4 THRU C6 FOR DRAINAGE DESIGN, EROSION CONTROL AND PROPOSED GRADING INFORMATION BY OTHERS

SCALE: 1" = 40'

ROADWAY IMPROVEMENT PLAN
EASTWOOD ROAD IMPROVEMENT PROJECT
WILMINGTON, NC
NEW HANOVER COUNTY

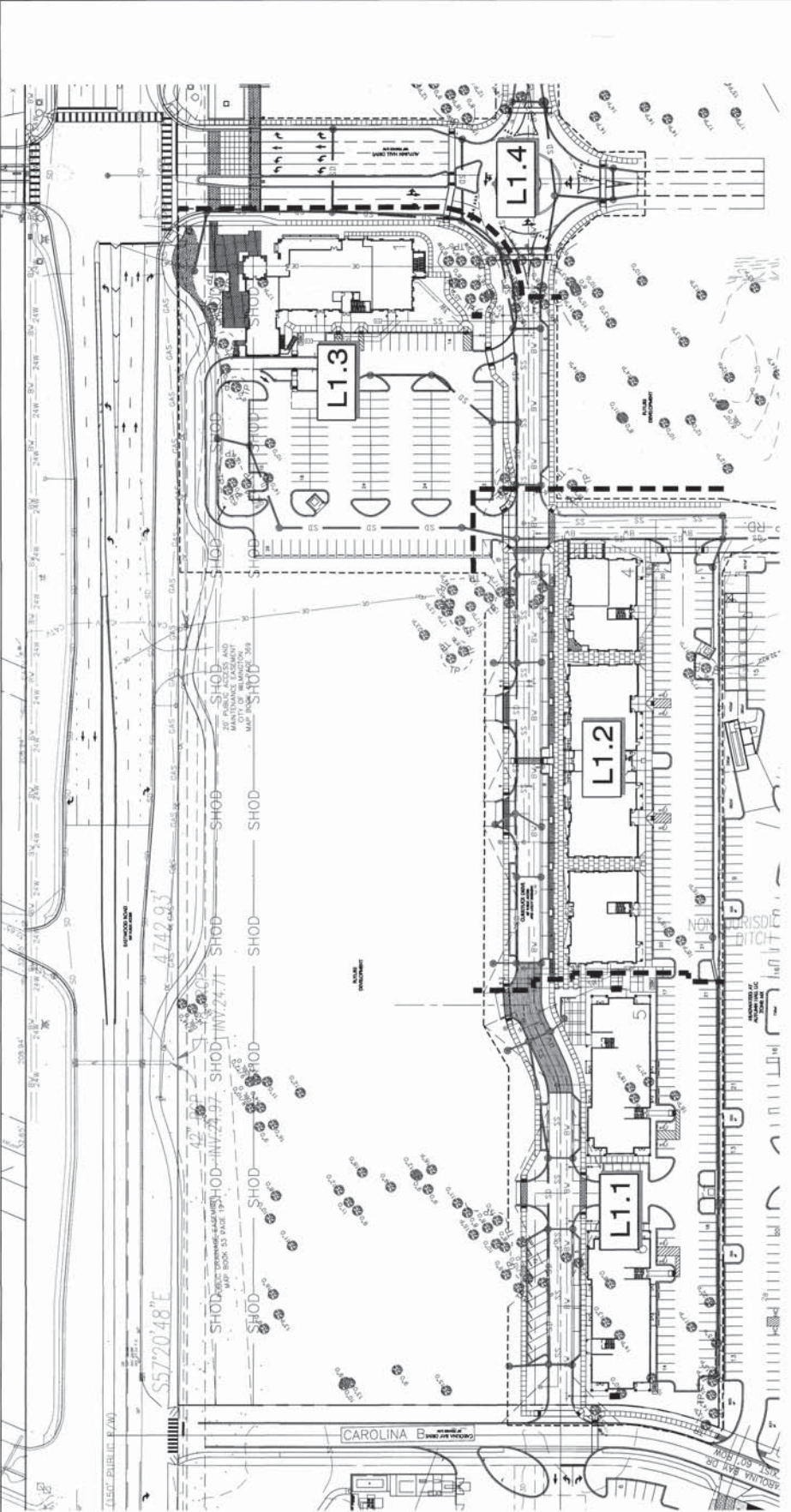
DEVELOPER
AUTUMN HALL, INC.
CONTACT: MR. MIKE BROWN
1202 EASTWOOD RD.
WILMINGTON, NC 28403

NORRIS & TUNSTALL
CONSULTING ENGINEERS P.C.
1000 W. MARKET STREET, SUITE 200
WILMINGTON, NC 28401
TEL: 910.342.1111 FAX: 910.342.1112
WWW.NORRISANDTUNSTALL.COM

RAMEY KEMP
TRANSPORTATION ENGINEERS
1000 W. MARKET STREET, SUITE 200
WILMINGTON, NC 28401
TEL: 910.342.1111 FAX: 910.342.1112
WWW.RAMEYKEMP.COM

50120
REV. 05.5
06.1
DATE 5/10/18





WILMINGTON
PUBLIC SERVICES ENGINEERING DIVISION
APPROVED STORMWATER MANAGEMENT PLAN
Permit # _____
Signed _____
Date _____

Approved Construction Plan
Name _____
Date _____
Public Utility _____
Traffic _____
Fire _____

NOTE: TREE PROTECTION SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION. ALL TREE PROTECTION SHALL BE INSTALLED PRIOR TO THE START OF CONSTRUCTION. TREE PROTECTION SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION. ALL TREE PROTECTION SHALL BE INSTALLED PRIOR TO THE START OF CONSTRUCTION.

For each tree, utility City streets, a \$250 shall be required from the City for each tree. For each tree, a \$250 shall be required from the City for each tree. For each tree, a \$250 shall be required from the City for each tree.

PROPERTY BOUNDARY
MAINTENANCE LANE
LIMIT OF DISTURBANCE
STREET LIGHTS, TYP.
EXISTING TREES TO BE REMOVED
TREE PROTECTION FENCING

TP

SITE DATA

1000 EASTWOOD ROAD
WILMINGTON, NC 28403
CAROLINA LAND USE ZONING DISTRICT: 400138
CITY OF WILMINGTON, NC

LANDSCAPE REQUIREMENTS

REQUIREMENT	PROVIDED	DEFICIENCY
PERMANENTLY PROTECTED TREES	12	0
TEMPORARILY PROTECTED TREES	12	0
TOTAL TREES	24	0

PERMANENTLY PROTECTED TREES

SIZE	QUANTITY	REMARKS
6" DBH	12	12 PERMANENTLY PROTECTED TREES
8" DBH	0	0 PERMANENTLY PROTECTED TREES
10" DBH	0	0 PERMANENTLY PROTECTED TREES
12" DBH	0	0 PERMANENTLY PROTECTED TREES
14" DBH	0	0 PERMANENTLY PROTECTED TREES
16" DBH	0	0 PERMANENTLY PROTECTED TREES
18" DBH	0	0 PERMANENTLY PROTECTED TREES
20" DBH	0	0 PERMANENTLY PROTECTED TREES
24" DBH	0	0 PERMANENTLY PROTECTED TREES
30" DBH	0	0 PERMANENTLY PROTECTED TREES
36" DBH	0	0 PERMANENTLY PROTECTED TREES
42" DBH	0	0 PERMANENTLY PROTECTED TREES
48" DBH	0	0 PERMANENTLY PROTECTED TREES
60" DBH	0	0 PERMANENTLY PROTECTED TREES
72" DBH	0	0 PERMANENTLY PROTECTED TREES
84" DBH	0	0 PERMANENTLY PROTECTED TREES
96" DBH	0	0 PERMANENTLY PROTECTED TREES
108" DBH	0	0 PERMANENTLY PROTECTED TREES
120" DBH	0	0 PERMANENTLY PROTECTED TREES
132" DBH	0	0 PERMANENTLY PROTECTED TREES
144" DBH	0	0 PERMANENTLY PROTECTED TREES
156" DBH	0	0 PERMANENTLY PROTECTED TREES
168" DBH	0	0 PERMANENTLY PROTECTED TREES
180" DBH	0	0 PERMANENTLY PROTECTED TREES
192" DBH	0	0 PERMANENTLY PROTECTED TREES
204" DBH	0	0 PERMANENTLY PROTECTED TREES
216" DBH	0	0 PERMANENTLY PROTECTED TREES
228" DBH	0	0 PERMANENTLY PROTECTED TREES
240" DBH	0	0 PERMANENTLY PROTECTED TREES
252" DBH	0	0 PERMANENTLY PROTECTED TREES
264" DBH	0	0 PERMANENTLY PROTECTED TREES
276" DBH	0	0 PERMANENTLY PROTECTED TREES
288" DBH	0	0 PERMANENTLY PROTECTED TREES
300" DBH	0	0 PERMANENTLY PROTECTED TREES

TEMPORARILY PROTECTED TREES

SIZE	QUANTITY	REMARKS
6" DBH	12	12 TEMPORARILY PROTECTED TREES
8" DBH	0	0 TEMPORARILY PROTECTED TREES
10" DBH	0	0 TEMPORARILY PROTECTED TREES
12" DBH	0	0 TEMPORARILY PROTECTED TREES
14" DBH	0	0 TEMPORARILY PROTECTED TREES
16" DBH	0	0 TEMPORARILY PROTECTED TREES
18" DBH	0	0 TEMPORARILY PROTECTED TREES
20" DBH	0	0 TEMPORARILY PROTECTED TREES
24" DBH	0	0 TEMPORARILY PROTECTED TREES
30" DBH	0	0 TEMPORARILY PROTECTED TREES
36" DBH	0	0 TEMPORARILY PROTECTED TREES
42" DBH	0	0 TEMPORARILY PROTECTED TREES
48" DBH	0	0 TEMPORARILY PROTECTED TREES
60" DBH	0	0 TEMPORARILY PROTECTED TREES
72" DBH	0	0 TEMPORARILY PROTECTED TREES
84" DBH	0	0 TEMPORARILY PROTECTED TREES
96" DBH	0	0 TEMPORARILY PROTECTED TREES
108" DBH	0	0 TEMPORARILY PROTECTED TREES
120" DBH	0	0 TEMPORARILY PROTECTED TREES
132" DBH	0	0 TEMPORARILY PROTECTED TREES
144" DBH	0	0 TEMPORARILY PROTECTED TREES
156" DBH	0	0 TEMPORARILY PROTECTED TREES
168" DBH	0	0 TEMPORARILY PROTECTED TREES
180" DBH	0	0 TEMPORARILY PROTECTED TREES
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228" DBH	0	0 TEMPORARILY PROTECTED TREES
240" DBH	0	0 TEMPORARILY PROTECTED TREES
252" DBH	0	0 TEMPORARILY PROTECTED TREES
264" DBH	0	0 TEMPORARILY PROTECTED TREES
276" DBH	0	0 TEMPORARILY PROTECTED TREES
288" DBH	0	0 TEMPORARILY PROTECTED TREES
300" DBH	0	0 TEMPORARILY PROTECTED TREES

