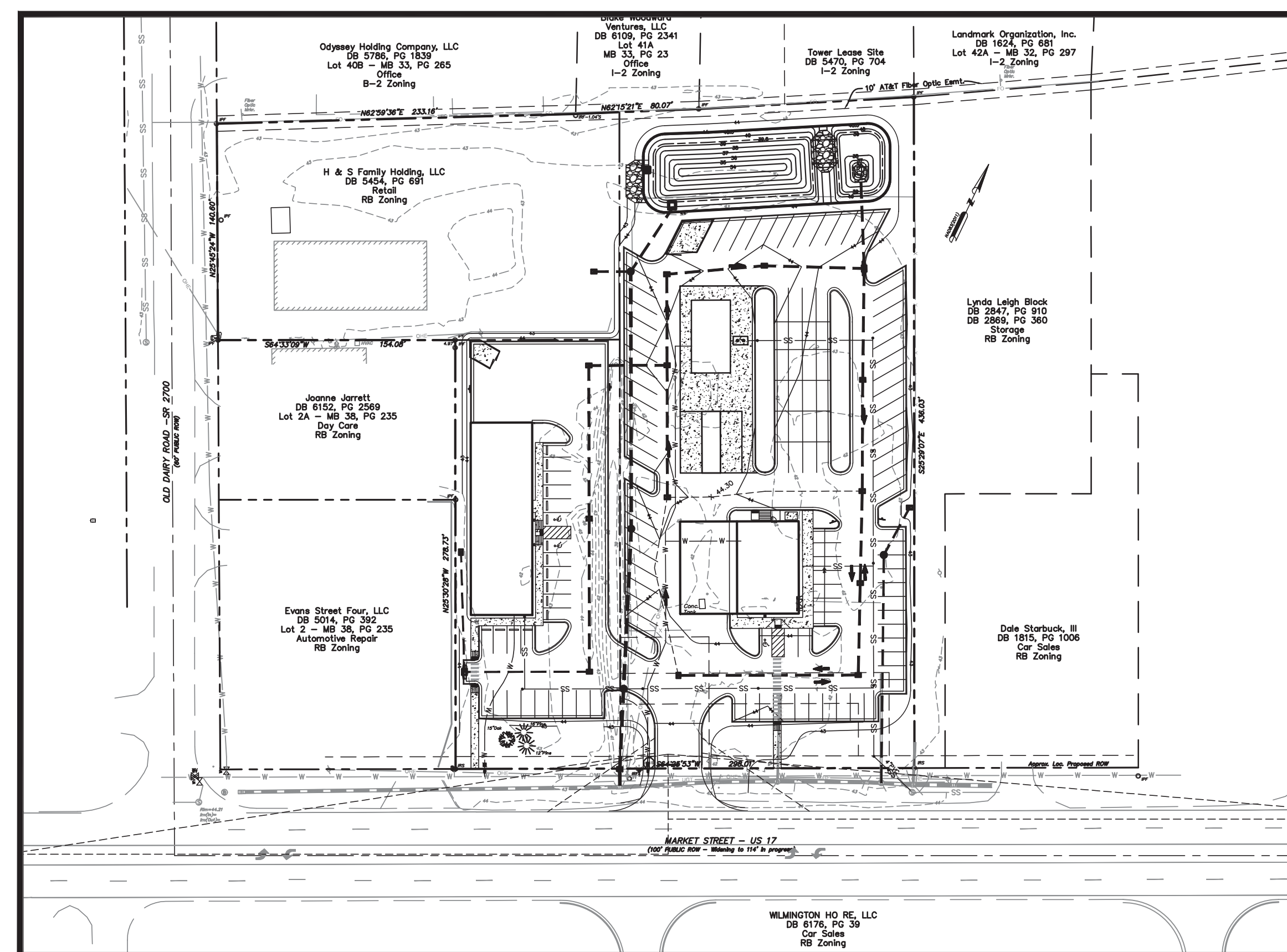
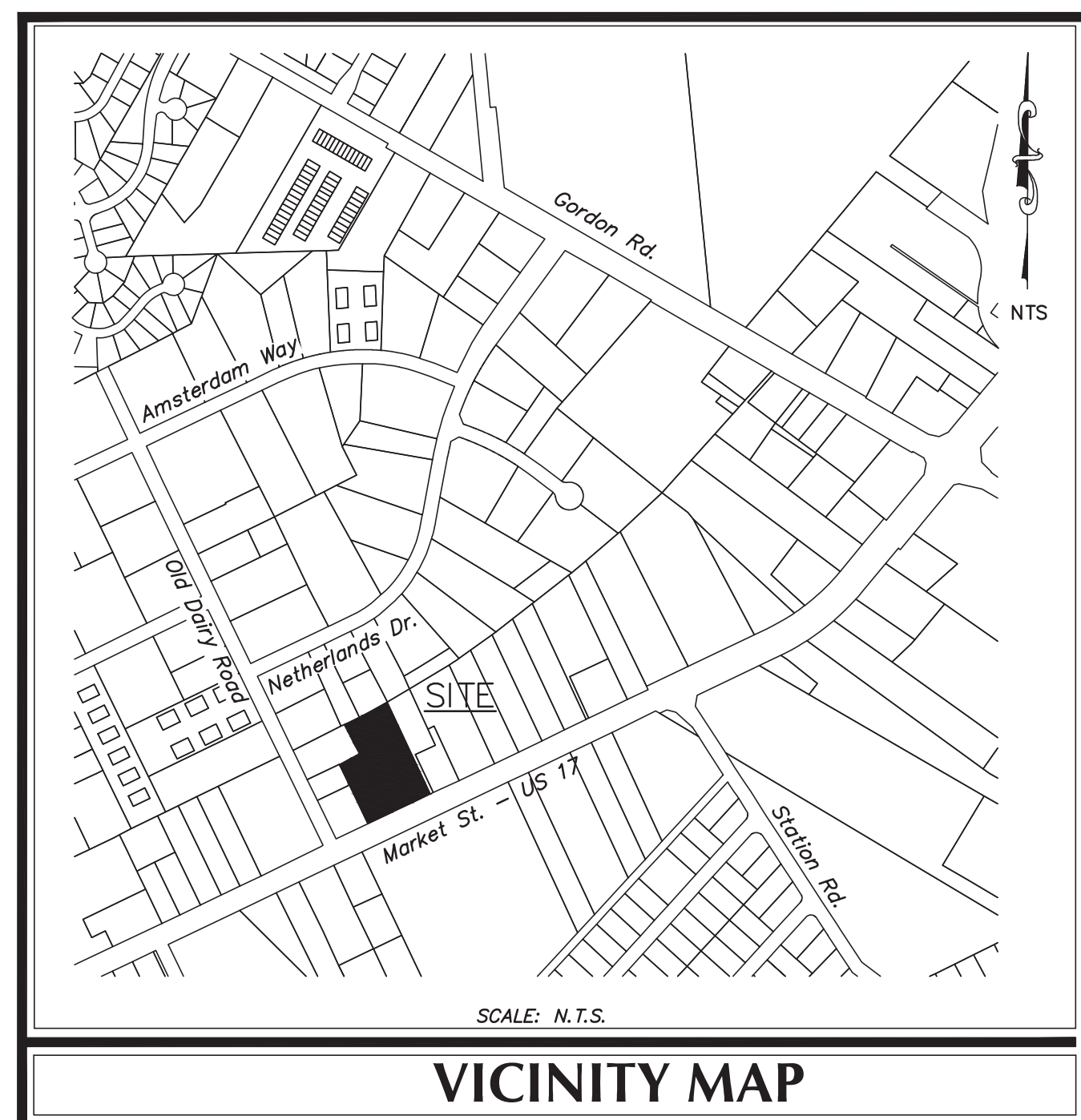


# Site Development For ENTERPRISE RENT-A-CAR MARKET STREET

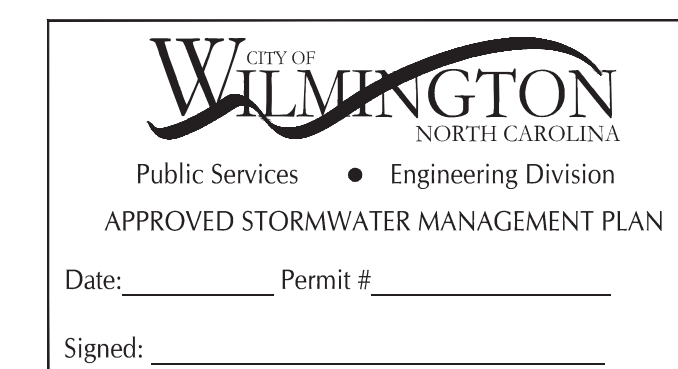
JULY, 2020

WILMINGTON, NORTH CAROLINA



**OWNER**  
H & S FAMILY HOLDINGS, LLC  
1608 MARKET STREET  
WILMINGTON, NC 28401  
TEL: 910-763-5411  
cfisher@coastal-realty.com

**PORT CITY CONSULTING ENGINEERS, PLLC**  
6216 STONEBRIDGE ROAD  
WILMINGTON, NC 28409  
910-599-1744 LICENSE No. P-1032  
mhargrove@ec.rr.com



**Approved Construction Plan**  
Date: 9/25/20  
# 2020026  
SWP #: 2020030  
PO, ES, BM, MB, CW

**INDEX OF SHEETS**

SHT C-0	COVER SHEET
SHT C-1	GENERAL NOTES
SHT C-2	EXISTING CONDITIONS
SHT C-2.1	DEMOLITION PLAN
SHT C-3	LAYOUT PLAN
SHT C-3.1	TRUCK TURNING TEMPLATES
SHT C-4	GRADING & DRAINAGE PLAN
SHT C-4.1	DRAINAGE AREA PLAN
SHT C-5	EROSION CONTROL PLAN
SHT C-6	UTILITY PLAN
SHT C-7.0-2	MISCELLANEOUS DETAILS
SHT C-7.3	POND DETAILS
SHT C-7.4	NCG01 GROUND STABILIZATION & MATERIALS HANDLING
SHT C-7.5	NCG01 SELF INSPECTION, RECORDKEEPING AND REPORTING
SHT C-8.1 - 3	CFPUA STANDARD UTILITY DETAILS
SHT L-1 & 2	LANDSCAPE PLAN

**SITE DATA TABLE**

**GENERAL NOTES:**

- NEW HANOVER COUNTY PARCEL NOS:  
PID R04320-001-016-000 (6717 MARKET STREET)  
PID R04320-001-022-000 (6719 MARKET STREET)  
PID R04320-001-002-000 (6721 MARKET STREET)  
PID R04320-001-003-000 (6725 MARKET STREET)
- TOTAL AREA: 2.57 AC.±
- EXISTING ZONING: RB - REGIONAL BUSINESS
- BUILDING USES: ENTERPRISE RENTAL CAR OFFICE (2,400 SF) TYPE 2B  
ENTERPRISE RENTAL CAR CANOPY (2,220 SF) TYPE 2B  
ENTERPRISE CAR WASH (1,197 SF) TYPE 2B  
ENTERPRISE FUEL ISLAND & CANOPY (1,600 SF)  
OFFICE BUILDING (5,000 SF) TYPE 3B
- CAMA LAND USE: URBAN
- NO PART OF THIS PROPERTY IS WITHIN ZONE X OR ZONE AE PER FEMA FLOOD INSURANCE RATE MAP #3720315800K, EFFECTIVE DATE AUGUST 28, 2018.

**DEVELOPMENT DATA:**

Total Tract Area = 149,861 SF = 2.57 ac  
Totals Disturbed Area = 2.9 ac  
Max. Bldg. Hgts. - 35' Mean Roof

Enterprise Rental Bldg	- 21 ft - 1 Story
Office Bldg	- 18 ft - 1 Story
Car Wash	- 18 ft - 1 Story

Setbacks:		Enterprise	Car Wash	Office
Front	25 ft	100 ft	257 ft	100 ft
Side	0 ft	75 ft	119 ft	10 ft
Rear	15 ft	267 ft	129 ft	199 ft

Existing Impervious Surface BUA:

Ex Bldg	- 3,592 S.F.
Ex Pavement	- 9,114 S.F.
Ex Concrete	- 6,756 S.F.
Ex Gravel/Dir Drive	- 13,336 S.F.
Total	- 32,798 S.F.

Proposed Impervious Surface BUA:

Bldg (enclosed)	- 8,597 S.F. (5.74% Building Lot Coverage)
Canopy Roof top	- 3,820 S.F.
Pavement	- 61,733 S.F.
Generator Pad	- 40 S.F.
Sidewalk	- 2,500 S.F.
Total	- 76,690 S.F.

Parking Requirements:  
Car Rental Office: 1/200 - 1/300 sf (2,400 sf Building)  
= Max - 12 Spaces  
Min - 8 Spaces Provided - 12 Spaces  
1 HC Required - 1 Provided  
Rest of spaces is for rental cars  
Total number of spaces is 103 (for customers and car rentals)

Office: 1/200 - 1/300 sf (5,000 sf Building)  
= Max - 25 Spaces  
Min - 17 Spaces Provided - 25 Spaces  
1 HC Required - 2 HC Provided

Trash will be handled by Dumpster for Enterprise Car Rental  
Trash will be handled by Dumpster for the Office Building

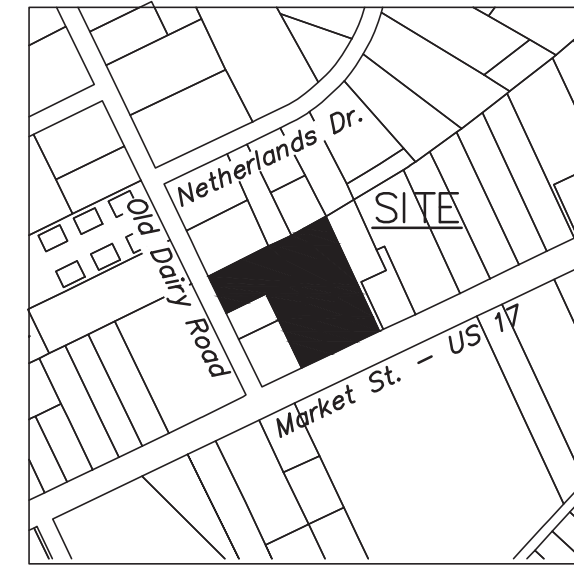
Trip Generation:  
Enterprise Car Rental (715) - AM Peak - 21; PM Peak - 32  
Office (715) - AM Peak - 9; PM Peak - 9

Utility Capacity Requests:  
Proposed Sewer Capacity:  
Car Rental: 10 Employees @ 25 gpd - 250 gpd  
Retail: 4 plumbing fixtures @ 125 gpd/fixture - 500 gpd

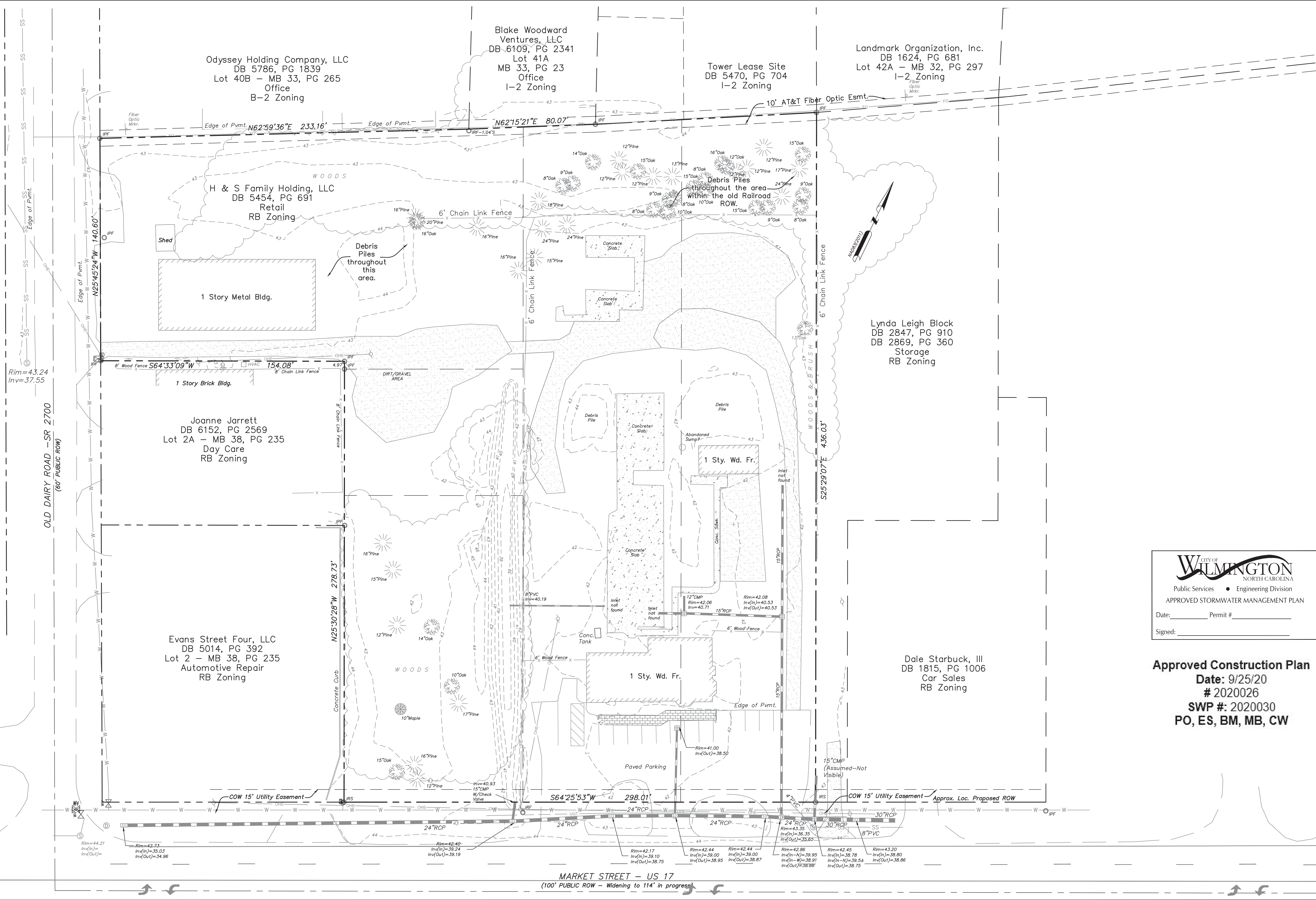
**LEGEND**


DESCRIPTION	EXISTING	PROPOSED
PROPERTY BOUNDARY	---	---
EASEMENT	---	---
STREAM	---	---
STRUCTURE	---	---
MINOR CONTOURS	---8---	---8---
MAJOR CONTOURS	---10---	---10---
GAS LINE	-G-G-	-G-G-
OVERHEAD POWER	-OHP-OHP-	-OHP-OHP-
WATER LINE	-W-W-	-W-W-
SANITARY SEWER LINE	-SS-SS-	-SS-SS-
SANITARY SEWER MANHOLE	⊙	⊙
STORM DRAINAGE PIPE	---	---
STORM DRAINAGE STRUCTURE	○ □	● ■
TREE	11" OAK ●	● ■
CONCRETE	▨	▨
SILT FENCE	-SF-SF-	-SF-SF-
TREE PROTECTION FENCE	-TP-TP-	-TP-TP-
FIRE HYDRANT ASSEMBLY	⚡	⚡



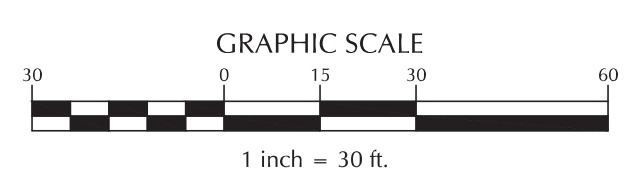


SCALE: N.T.S.



  
 CITY OF WILMINGTON  
 NORTH CAROLINA  
 Public Services • Engineering Division  
 APPROVED STORMWATER MANAGEMENT PLAN  
 Date: \_\_\_\_\_ Permit # \_\_\_\_\_  
 Signed: \_\_\_\_\_

**Approved Construction Plan**  
 Date: 9/25/20  
 # 2020026  
 SWP #: 2020030  
 PO, ES, BM, MB, CW



No.	Revision	Date	By
1	CHANGED PROJECT NAME	9/9/20	MNH

Designer	MNH	Scale	AS SHOWN
Drawn By	MNH	Date	JULY, 2020
Checked By	MNH	Job No.	

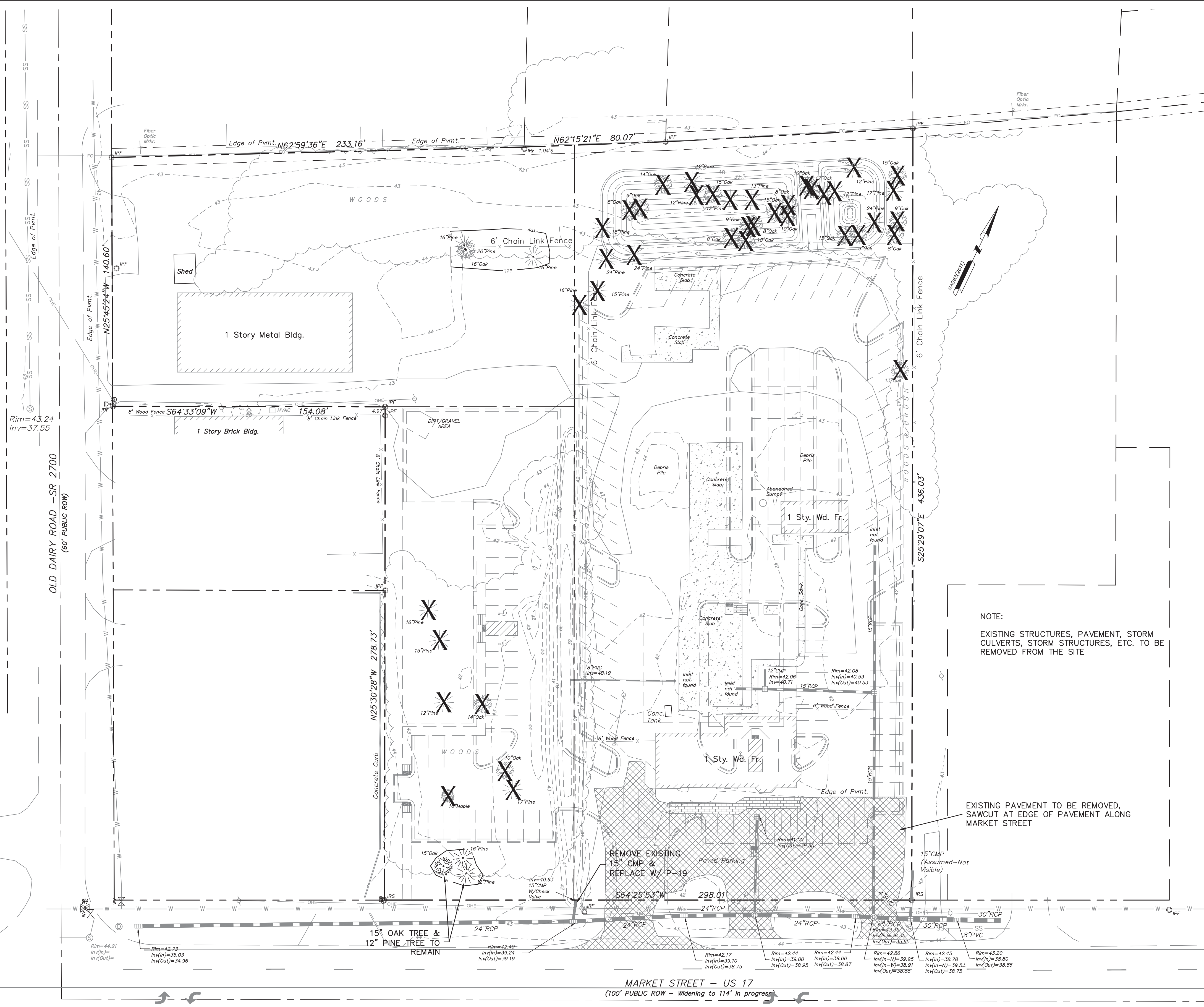
**ENTERPRISE RENT-A-CAR MARKET STREET**  
 WILMINGTON NORTH CAROLINA

H & S FAMILY HOLDINGS, LLC  
 1608 MARKET STREET  
 WILMINGTON, NC 28401

PORT CITY CONSULTING  
 ENGINEERS, PLLC  
 6216 STONEBRIDGE ROAD  
 WILMINGTON, NC 28409  
 910-599-1744 LICENSE No. P-1032

**EXISTING CONDITIONS**

Sheet No.  
**C-2**



NOTE:  
EXISTING STRUCTURES, PAVEMENT, STORM  
CULVERTS, STORM STRUCTURES, ETC. TO BE  
REMOVED FROM THE SITE

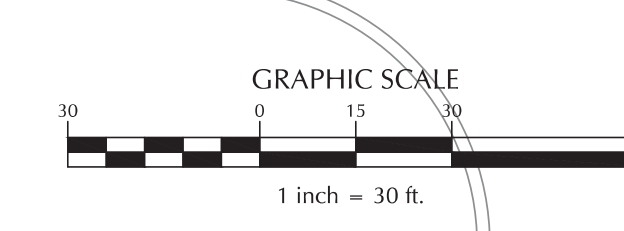
EXISTING PAVEMENT TO BE REMOVED,  
SAWCUT AT EDGE OF PAVEMENT ALONG  
MARKET STREET

REMOVE EXISTING  
15" CMP &  
REPLACE W/ P-19

15" OAK TREE &  
12" PINE TREE TO  
REMAIN

**WILMINGTON**  
NORTH CAROLINA  
Public Services • Engineering Division  
APPROVED STORMWATER MANAGEMENT PLAN  
Date: \_\_\_\_\_ Permit # \_\_\_\_\_  
Signed: \_\_\_\_\_

**Approved Construction Plan**  
Date: 9/25/20  
# 2020026  
SWP #: 2020030  
PO, ES, BM, MB, CW



No.	Revision	Date	By
1	REVISED PER CITY COMMENTS	8/13/20	MNH

Designer	MNH	Scale	AS SHOWN
Drawn By	MNH	Date	JULY, 2020
Checked By	MNH	Job No.	

**ENTERPRISE RENT-A-CAR MARKET STREET**  
WILMINGTON NORTH CAROLINA

H & S FAMILY HOLDINGS, LLC  
1608 MARKET STREET  
WILMINGTON, NC 28401

PORT CITY CONSULTING  
ENGINEERS, PLLC  
6216 STONEBRIDGE ROAD  
WILMINGTON, NC 28409  
910-599-1744 LICENSE No. P-1032

**TREE REMOVAL PLAN**

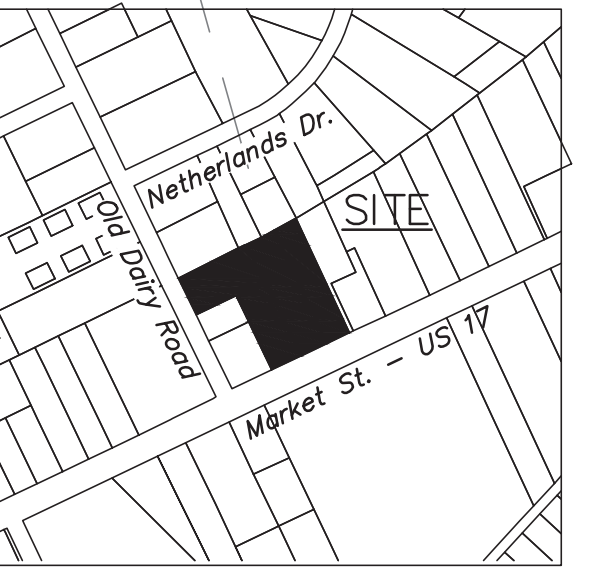
Sheet No.  
**C-2.1**

Odyssey Holding Company, LLC  
DB 5786, PG 1839  
Lot 40B - MB 33, PG 265  
Office  
B-2 Zoning

Blake Woodward  
Ventures, LLC  
DB 6109, PG 2341  
Lot 41A  
MB 33, PG 23  
Office  
I-2 Zoning

Tower Lease Site  
DB 5470, PG 704  
I-2 Zoning

Landmark Organization, Inc.  
DB 1624, PG 681  
Lot 42A - MB 32, PG 297  
I-2 Zoning



**CITY OF WILMINGTON**  
NORTH CAROLINA  
Public Services • Engineering Division  
APPROVED STORMWATER MANAGEMENT PLAN  
Date: \_\_\_\_\_ Permit # \_\_\_\_\_  
Signed: \_\_\_\_\_

**NOTES:**

PRIOR TO ANY CLEARING, GRADING OR CONSTRUCTION ACTIVITY, TREE PROTECTION FENCING SHALL BE INSTALLED AROUND PROTECTED TREES OR GROVES OF TREES. NO CONSTRUCTION WORKERS, TOOLS, MATERIALS, OR VEHICLES ARE PERMITTED WITHIN THE TREE PROTECTION FENCING.

ANY TREES AND/OR AREAS DESIGNATED TO BE PROTECTED MUST BE PROPERLY BARRICADED WITH FENCING AND PROTECTED THROUGHOUT CONSTRUCTION TO INSURE THAT NO CLEARING, GRADING OR STAGING OF MATERIALS WILL OCCUR IN THOSE AREAS.

NO EQUIPMENT IS ALLOWED ON SITE UNTIL ALL TREE PROTECTION FENCING AND SILT FENCING IS INSTALLED AND APPROVED. PROTECTIVE FENCING IS TO BE MAINTAINED THROUGHOUT THE DURATION OF THE PROJECT, AND CONTRACTORS SHALL RECEIVE ADEQUATE INSTRUCTION ON TREE PROTECTION METHODS.

ALL PAVEMENT MARKINGS IN PUBLIC RIGHTS-OF-WAY AND FOR DRIVEWAYS ARE TO BE THERMOPLASTIC AND MEET CITY AND/OR NCDOT STANDARDS.

ALL SIGNS AND PAVEMENT MARKINGS IN AREAS OPEN TO THE PUBLIC ARE TO MEET MUTCD (MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES) STANDARDS.

ALL TRAFFIC CONTROL SIGNS AND MARKINGS OF THE RIGHT-OF-WAY ARE TO BE MAINTAINED BY THE PROPERTY OWNER IN ACCORDANCE WITH MUTCD STANDARDS.

ALL PARKING STALL MARKINGS AND LANE ARROWS WITHIN THE PARKING AREAS SHALL BE WHITE.

CONTACT 811 PRIOR TO CONTACTING CITY OF WILMINGTON, TRAFFIC ENGINEERING REGARDING THE UTILITIES IN ROW.

ANY BROKEN OR MISSING SIDEWALK PANELS, DRIVEWAY PANELS AND CURBING WILL BE REPLACED.

CONTACT THE NORTH CAROLINA ONE CALL CENTER AT 1-800-632-4949 PRIOR TO DOING AND DIGGING, CLEARING, OR GRADING.

CALL TRAFFIC ENGINEERING AT 910-341-7888 FORTY EIGHT (48) HOURS PRIOR TO ANY EXCAVATION IN THE RIGHT-OF-WAY

A UTILITY CUT PERMIT IS REQUIRED FOR EACH OPEN CUT OF A CITY STREET. CONTACT 341-5888 FOR MORE DETAILS.

A LANDSCAPING PLAN INDICATING THE LOCATION OF REQUIRED STREET TREES SHALL BE SUBMITTED TO THE CITY OF WILMINGTON TRAFFIC DIVISION AND RECREATION DEPARTMENT FOR REVIEW AND APPROVAL PRIOR TO RECORDING THE FINAL PLAT.

TACTILE WARNING MATS WILL BE INSTALLED ON ALL WHEELCHAIR RAMPS

WATER AND SEWER SERVICE SHALL MEET CAPE FEAR PUBLIC UTILITY AUTHORITY (CFPUA) DETAILS AND SPECIFICATIONS

PROJECT SHALL COMPLY WITH CFPUA CROSS CONNECTION CONTROL REQUIREMENTS. WATER METER(S) CANNOT BE RELEASED UNTIL ALL REQUIREMENTS ARE MET AND THE STATE HAS GIVEN THEIR FINAL APPROVAL. CALL 910-343-3910 FOR INFORMATION

IF THE CONTRACTOR DESIRES CFPUA WATER FOR CONSTRUCTION, HE SHALL APPLY IN ADVANCE FOR THIS SERVICE AND MUST PROVIDE A REDUCED PRESSURE ZONE (RPZ) BACKFLOW PREVENTION DEVICE ON THE DEVELOPER'S SIDE OF THE WATER METER BOX

CONTRACTOR SHALL MAINTAIN ALL-WEATHER ACCESS FOR EMERGENCY VEHICLES AT ALL TIMES DURING CONSTRUCTION

NO OBSTRUCTIONS ARE PERMITTED IN THE SPACE BETWEEN THIRTY (30) INCHES AND TEN (10) FEET ABOVE THE GROUND WITHIN THE TRIANGULAR SIGHT DISTANCE

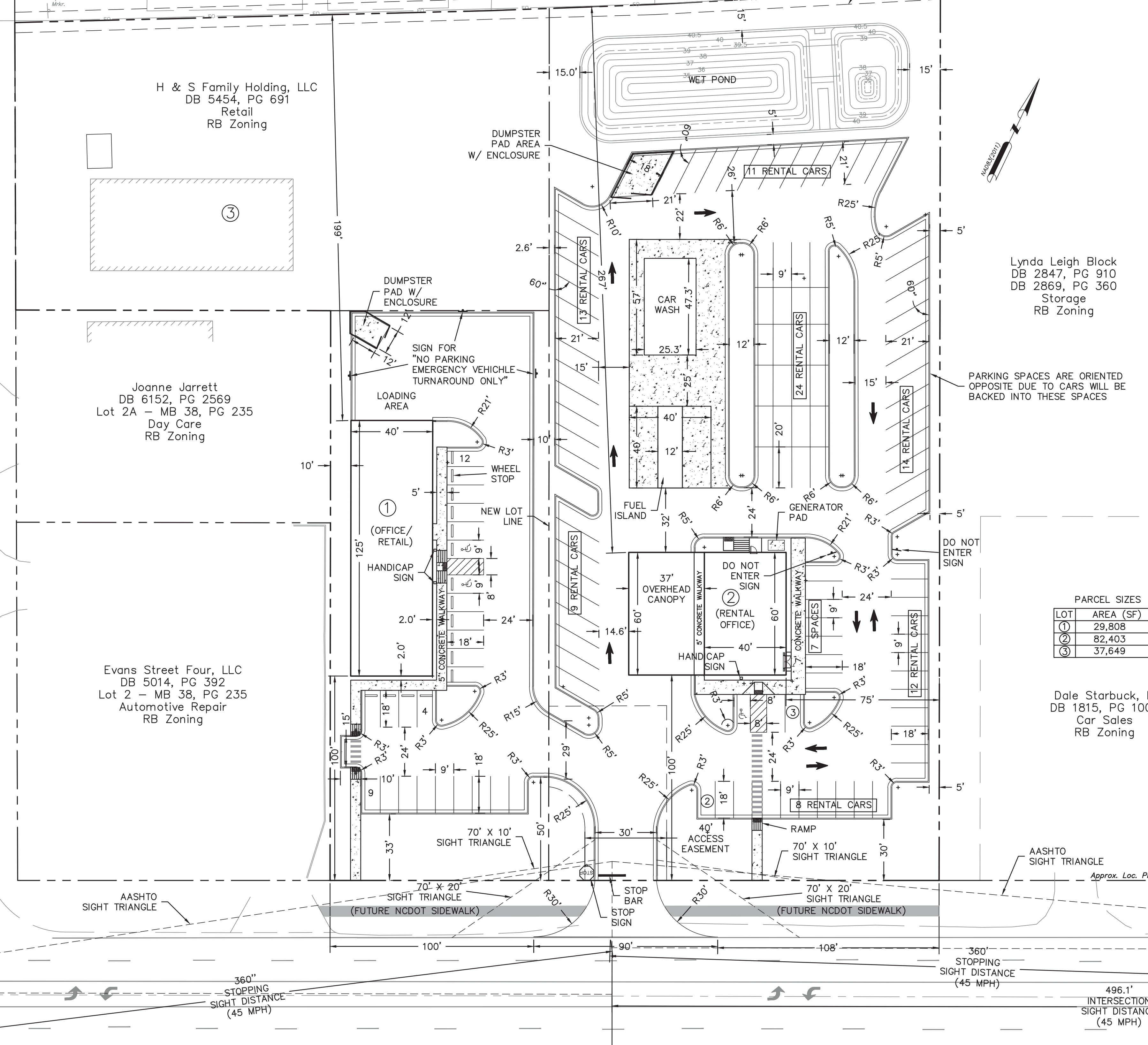
LANDSCAPING OR PARKING CANNOT BLOCK OR IMPEDE THE FDC OR FIRE HYDRANTS. A 3-FOOT CLEAR SPACE SHALL BE MAINTAINED AROUND THE CIRCUMFERENCE OF THE HYDRANT AND FDC.

ADDITIONAL FIRE PROTECTION AND ACCESSIBILITY REQUIREMENTS MAY BE REQUIRED DUE TO ANY SPECIAL CIRCUMSTANCES CONCERNING THE PROJECT.

CONTRACTOR SHALL SUBMIT A RADIO SIGNAL STRENGTH STUDY FOR ALL COMMERCIAL BUILDINGS THAT DEMONSTRATES THAT EXISTING EMERGENCY RESPONDER SIGNAL LEVELS MEET SECTION 510 REQUIREMENTS OF THE 2018 NC FIRE CODE.

NEW HYDRANTS MUST BE BROUGHT INTO SERVICE PRIOR TO COMBUSTIBLE MATERIALS DELIVERED TO THE JOB SITE.

PRIOR TO ANY CLEARING, GRADING, OR CONSTRUCTION ACTIVITY, TREE PROTECTION FENCING WILL BE INSTALLED AROUND PROTECTED TREES OR GROVES OF TREES. NO CONSTRUCTION WORKERS, TOOL, MATERIALS OR VEHICLES ARE PERMITTED WITHIN THE PROTECTION FENCING.

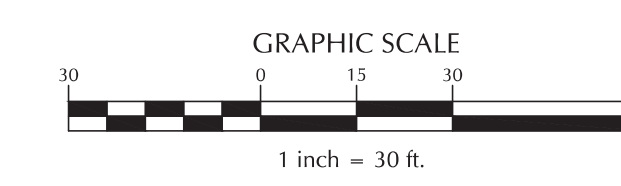


PARCEL SIZES

LOT	AREA (SF)
①	29,808
②	82,403
③	37,649

Dale Starbuck, III  
DB 1815, PG 1006  
Car Sales  
RB Zoning

WILMINGTON HO RE, LLC  
DB 6176, PG 39  
Car Sales  
RB Zoning



**Approved Construction Plan**  
Date: 9/25/20  
# 2020026  
SWP #: 2020030  
PO, ES, BM, MB, CW

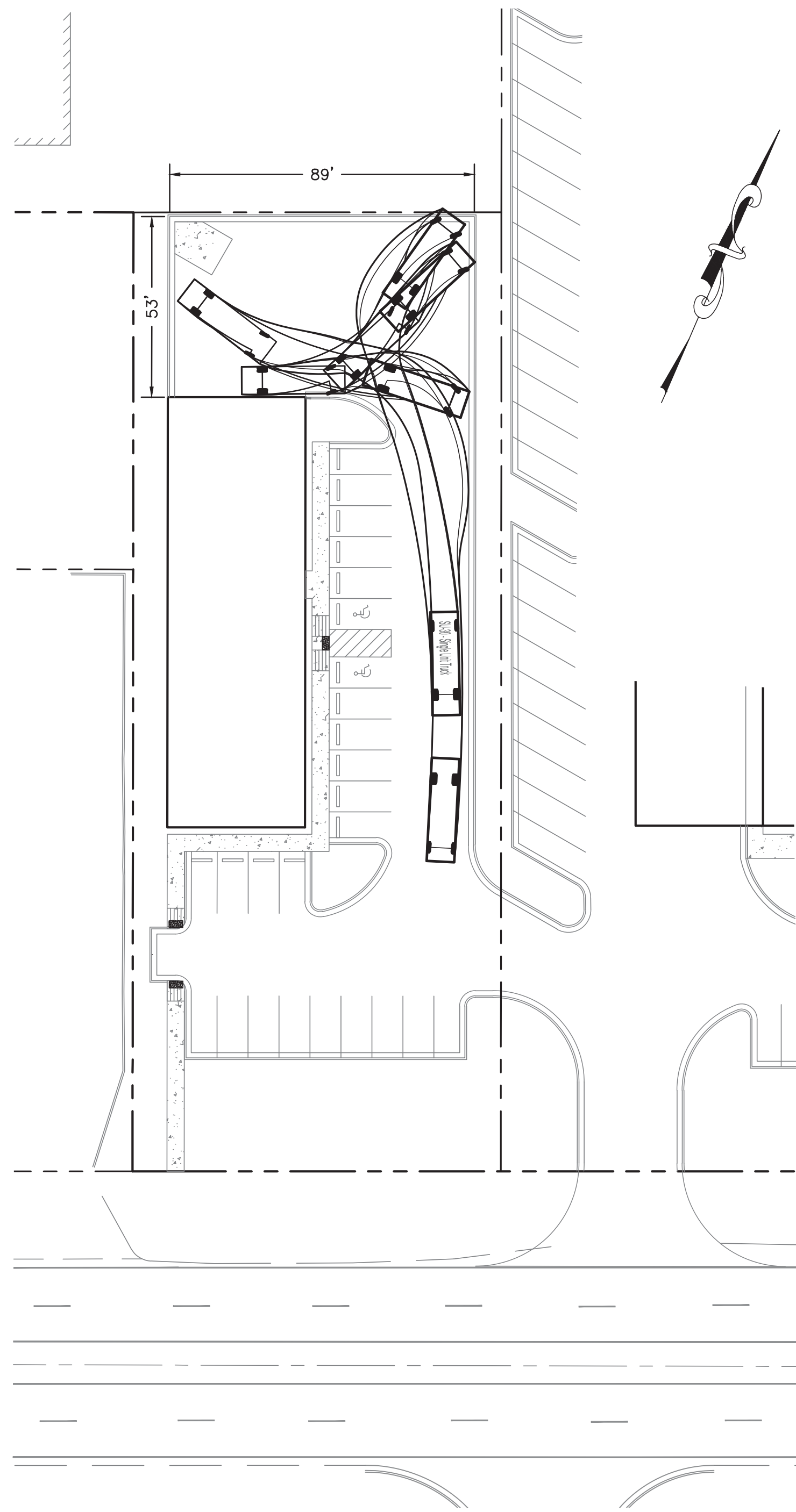
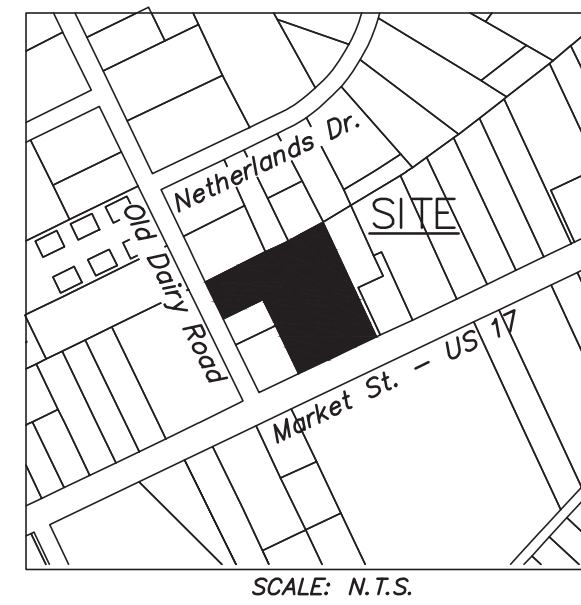
No.	Revision	Date	By
1	CHANGED PROJECT NAME	9/9/20	MNH

**ENTERPRISE RENT-A-CAR MARKET STREET**  
WILMINGTON NORTH CAROLINA

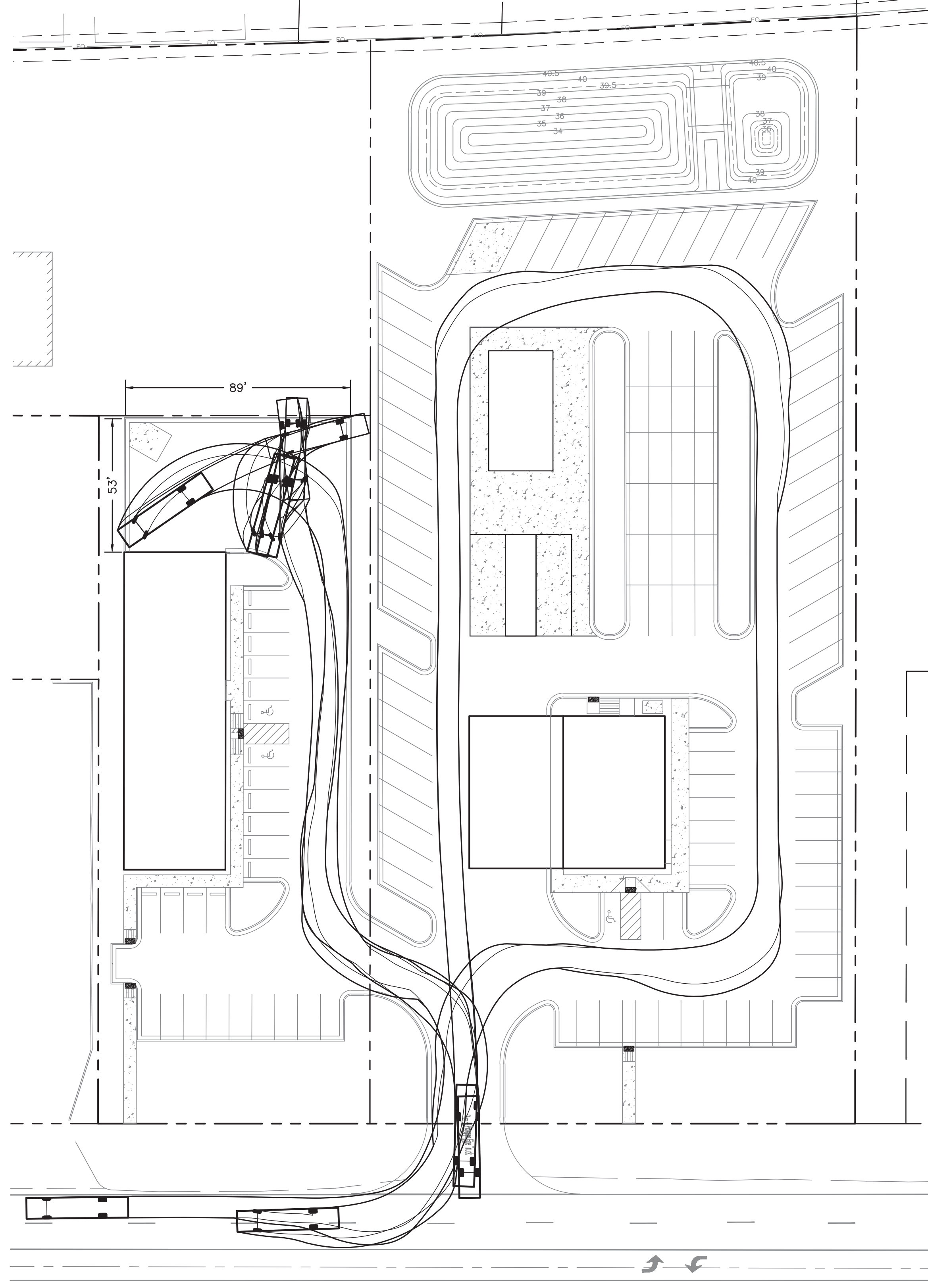
H & S FAMILY HOLDINGS, LLC  
1608 MARKET STREET  
WILMINGTON, NC 28401

PORT CITY CONSULTING  
ENGINEERS, PLLC  
6216 STONEBRIDGE ROAD  
WILMINGTON, NC 28409  
910-599-1744 LICENSE No. P-1032

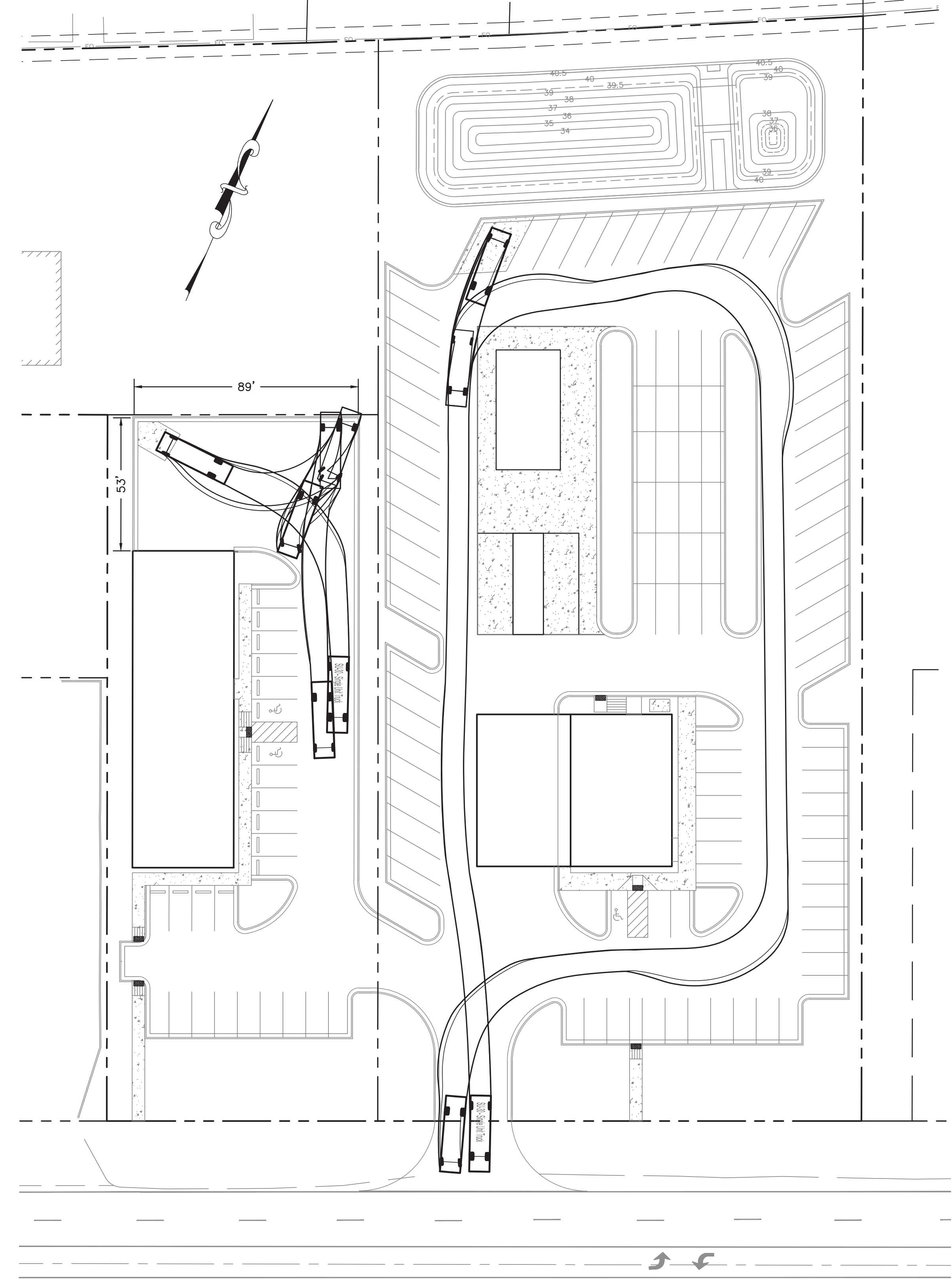
**SITE PLAN**  
Sheet No. C-3




LOADING TEMPLATE



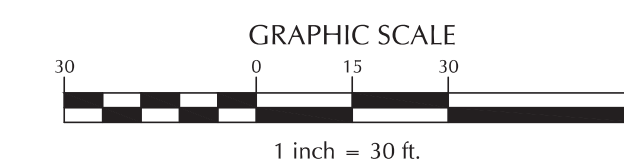
FIRE TRUCK TEMPLATE



GARBAGE TRUCK TEMPLATE

  
 NORTH CAROLINA  
 Public Services • Engineering Division  
 APPROVED STORMWATER MANAGEMENT PLAN  
 Date: \_\_\_\_\_ Permit # \_\_\_\_\_  
 Signed: \_\_\_\_\_

**Approved Construction Plan**  
 Date: 9/25/20  
 # 2020026  
 SWP #: 2020030  
 PO, ES, BM, MB, CW



No.	Revision	Date	By
1	CHANGED PROJECT NAME	9/9/20	MNH

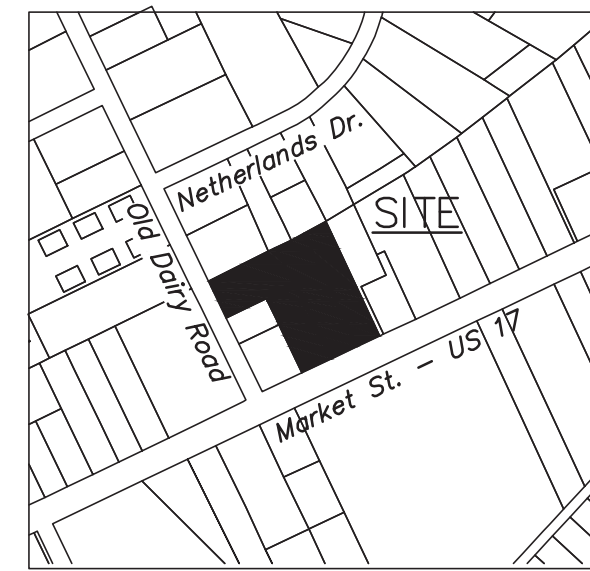
Designer	MNH	Scale	AS SHOWN
Drawn By	MNH	Date	JULY, 2020
Checked By	MNH	Job No.	

**ENTERPRISE RENT-A-CAR MARKET STREET**  
 WILMINGTON NORTH CAROLINA

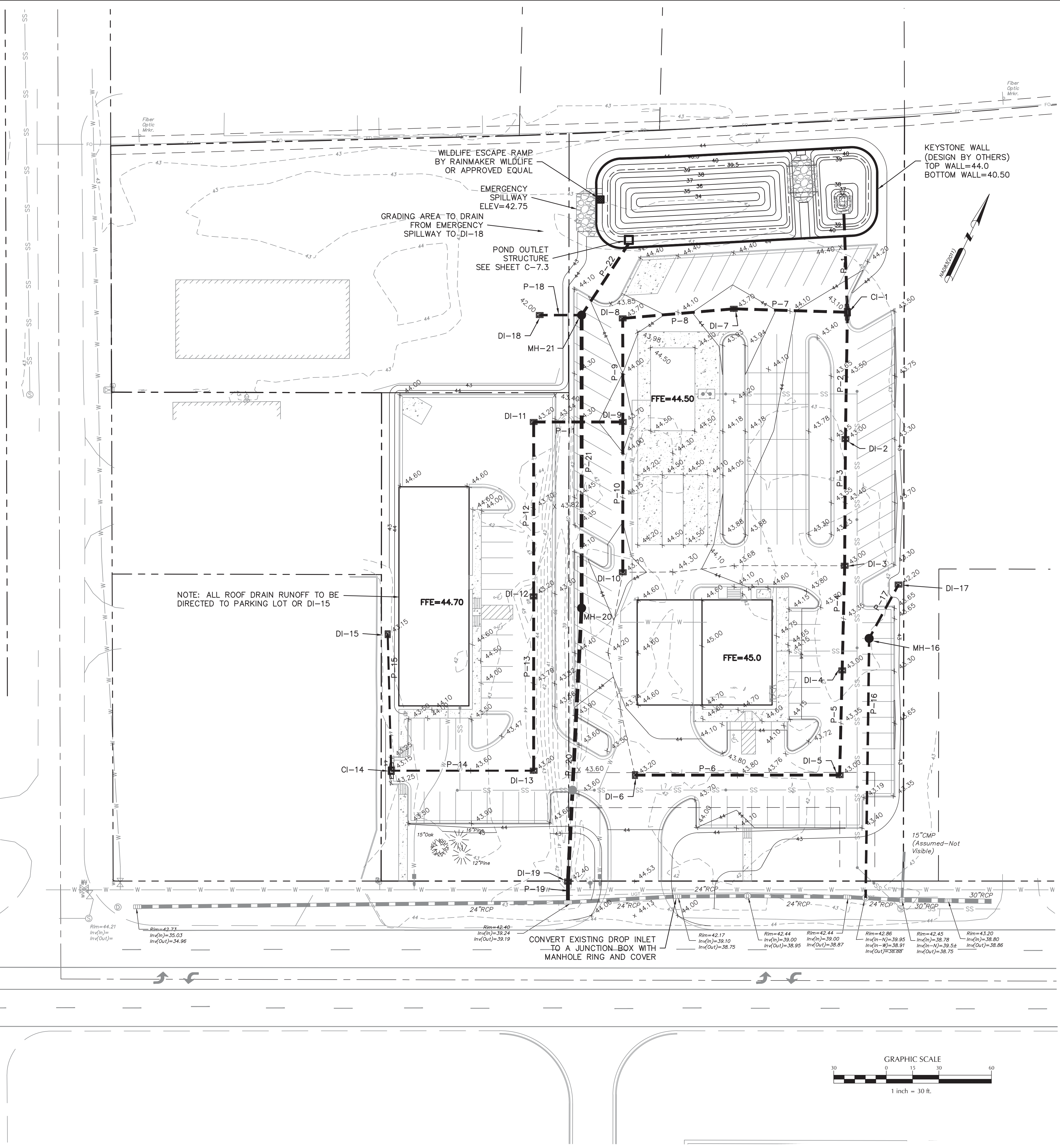
H & S FAMILY HOLDINGS, LLC  
 1608 MARKET STREET  
 WILMINGTON, NC 28401

PORT CITY CONSULTING  
 ENGINEERS, PLLC  
 6216 STONEBRIDGE ROAD  
 WILMINGTON, NC 28409  
 910-599-1744 LICENSE No. P-1032

TRUCK TURNING TEMPLATE



SCALE: N.T.S.



Line ID	Line Length (ft)	Veloc (ft/s)	Pipe Size (in)	Pipe Slope (%)	Inv Elev Dn (ft)	Inv Elev Up (ft)	Grnd/Rim Dn (ft)	Grnd/Rim Up (ft)
P-1	56	2.08	30	0.30	37.00	37.17	N/A	43.10
P-2	72	2.70	18	1.28	37.17	38.10	43.10	43.00
P-3	72	3.56	15	1.15	38.10	38.93	43.00	43.00
P-4	60	2.44	15	0.30	38.93	39.11	43.00	43.00
P-5	60	1.74	15	0.30	39.11	39.29	43.00	43.00
P-6	117	1.18	15	0.40	39.29	39.76	43.00	43.20
P-7	65	3.01	18	0.31	37.17	37.37	43.10	43.70
P-8	63	2.64	18	0.30	37.37	37.56	43.70	43.70
P-9	59	2.43	18	0.30	37.56	37.74	43.70	43.70
P-10	86	0.70	15	2.29	37.74	39.70	43.70	43.70
P-11	51	1.73	18	0.30	37.74	37.89	43.70	43.20
P-12	100	1.35	18	0.30	37.89	38.19	43.20	43.20
P-13	100	1.41	15	0.30	38.19	38.49	43.20	43.20
P-14	81	0.93	15	0.30	38.49	38.73	43.20	43.15
P-15	78	1.01	12	1.63	38.73	40.00	43.15	43.10
P-16	148	2.70	15	0.30	39.95	40.39	42.86	43.34
P-17	35	2.18	15	0.30	40.39	40.50	43.34	42.20
P-18	24	1.91	15	0.29	40.24	40.31	44.05	42.00
P-19	11	5.41	24	0.28	39.24	39.27	42.40	42.40
P-20	156	4.50	24	0.30	39.27	39.74	42.40	44.35
P-21	167	4.42	24	0.30	39.74	40.24	44.35	44.05
P-22	49	5.72	18	0.53	40.24	40.40	44.05	42.30

NOTE:  
P-1 LENGTH INCLUDES A FLARED END SECTION  
P-1 THRU P-14 TO BE RCP CL III  
P-15 THRU P-22 TO BE HDPE

**WILMINGTON**  
NORTH CAROLINA  
Public Services • Engineering Division  
APPROVED STORMWATER MANAGEMENT PLAN  
Date: \_\_\_\_\_ Permit # \_\_\_\_\_  
Signed: \_\_\_\_\_

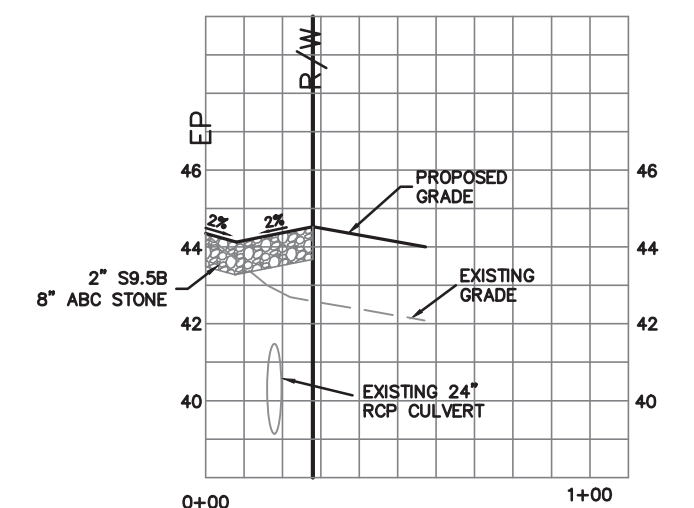
**Approved Construction Plan**  
Date: 9/25/20  
# 2020026  
SWP #: 2020030  
PO, ES, BM, MB, CW

Inv Elev Up (ft)	Grnd/Rim Up (ft)	
CI-1	37.17	43.10
DI-2	38.10	43.00
DI-3	38.93	43.00
DI-4	39.11	43.00
DI-5	39.29	43.00
DI-6	39.76	43.20
DI-7	37.37	43.70
DI-8	37.56	43.70
DI-9	37.74	43.70
DI-10	39.70	43.70
DI-11	37.89	43.20
DI-12	38.19	43.20
DI-13	38.49	43.20
DI-14	38.73	43.15
DI-15	40.00	43.10
DI-17	40.39	43.34
DI-18	40.50	42.20
DI-19	40.31	42.00
DI-19	39.27	42.40
MH-20	39.74	44.35
MH-21	40.24	44.05

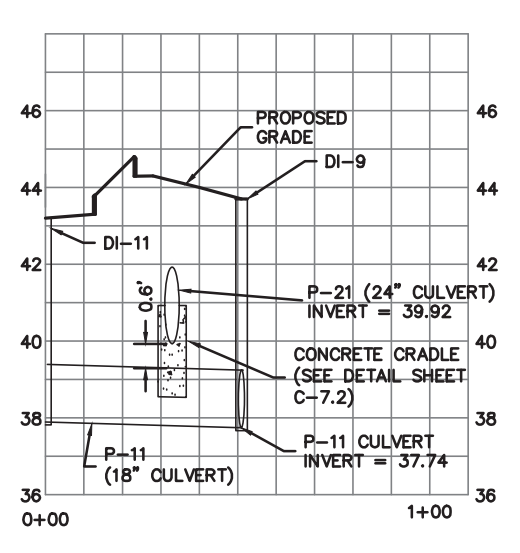
CI - CURB INLET  
DI - DROP INLET  
MH - MANHOLE

NOTE: ALL ROOF DRAIN RUNOFF TO BE DIRECTED TO PARKING LOT OR DI-15

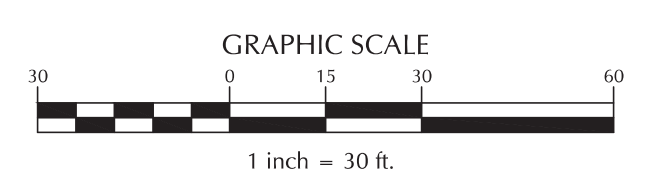
NOTE: NO WETLANDS EXIST ON SITE



ENTRANCE DRIVEWAY PROFILE



P-11 & P-21 CROSSING DETAIL



No.	Revision	Date	By
1	CHANGED PROJECT NAME	9/9/2020	MNH

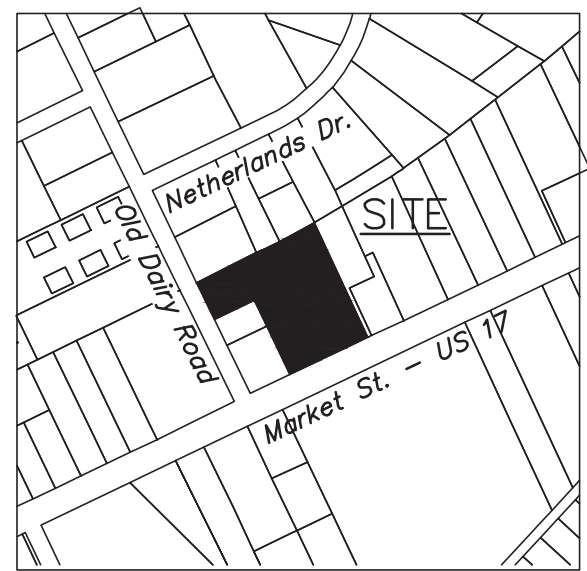
**ENTERPRISE RENT-A-CAR MARKET STREET**  
WILMINGTON NORTH CAROLINA

H & S FAMILY HOLDINGS, LLC  
1608 MARKET STREET  
WILMINGTON, NC 28401

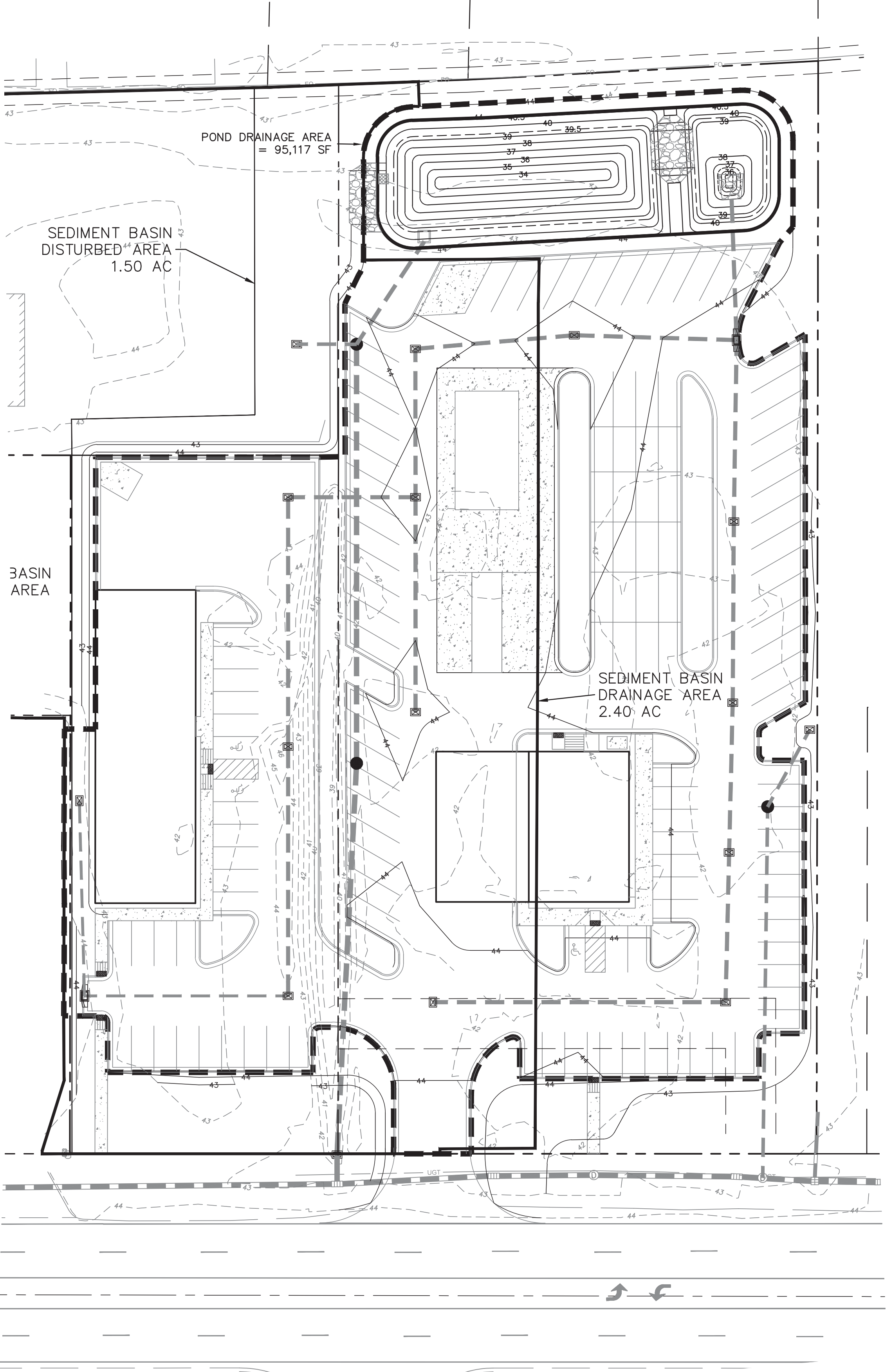
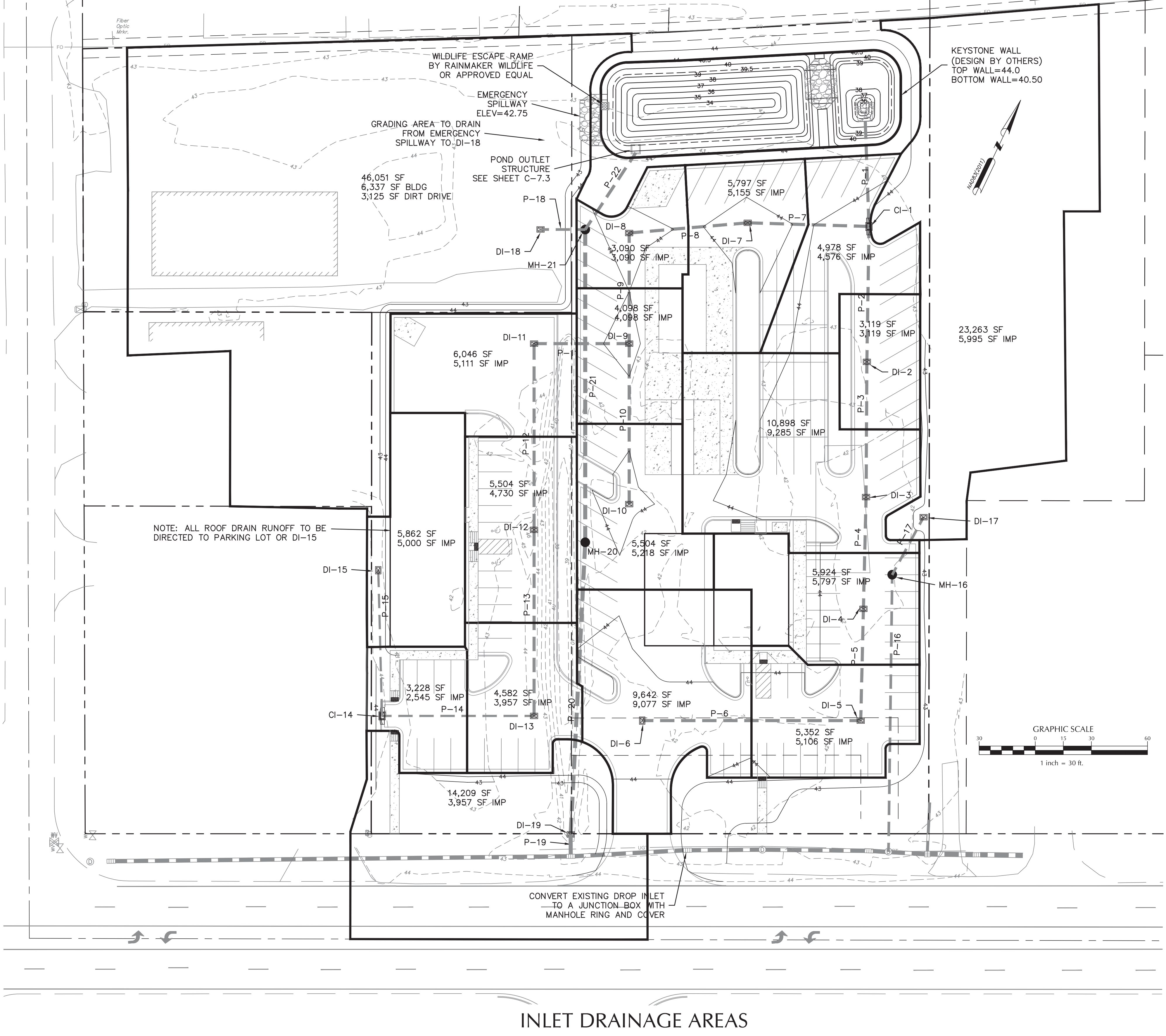
PORT CITY CONSULTING ENGINEERS, PLLC  
6216 STONEBRIDGE ROAD  
WILMINGTON, NC 28409  
910-599-1744 LICENSE No. P-1032

**GRADING & DRAINAGE PLAN**

Sheet No. **C-4**



SCALE: N.T.S.



POND DRAINAGE AREA

**CITY OF WILMINGTON**  
NORTH CAROLINA  
Public Services • Engineering Division  
APPROVED STORMWATER MANAGEMENT PLAN  
Date: \_\_\_\_\_ Permit # \_\_\_\_\_  
Signed: \_\_\_\_\_

**Approved Construction Plan**  
Date: 9/25/20  
# 2020026  
SWP #: 2020030  
PO, ES, BM, MB, CW

INLET DRAINAGE AREAS

No.	Revision	Date	By
1	CHANGED PROJECT NAME	9/9/2020	MNH

Designer	MNH	Scale	AS SHOWN
Drawn By	MNH	Date	JULY, 2020
Checked By	MNH	Job No.	

**ENTERPRISE RENT-A-CAR MARKET STREET**  
WILMINGTON NORTH CAROLINA

H & S FAMILY HOLDINGS, LLC  
1608 MARKET STREET  
WILMINGTON, NC 28401

PORT CITY CONSULTING  
ENGINEERS, PLLC  
6216 STONEBRIDGE ROAD  
WILMINGTON, NC 28409  
910-599-1744 LICENSE No. P-1032

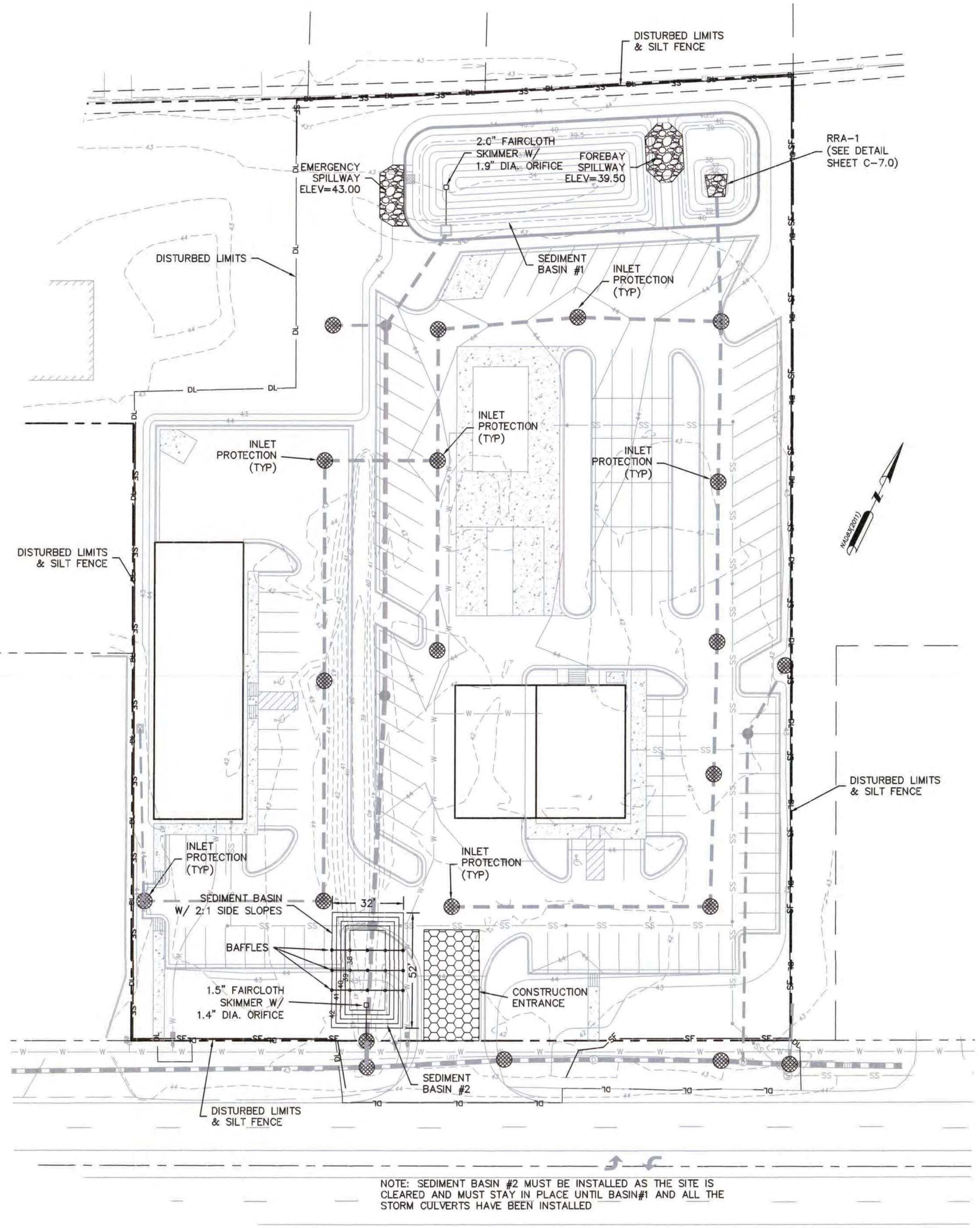
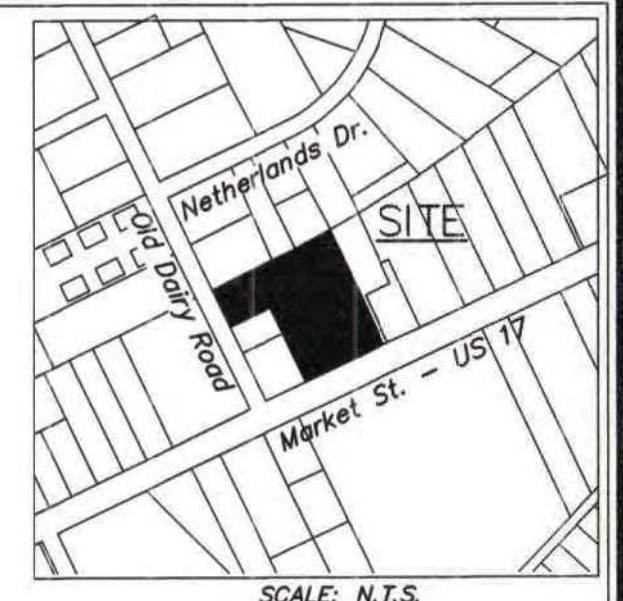
**DRAINAGE AREAS**

Sheet No.  
**C-4.1**

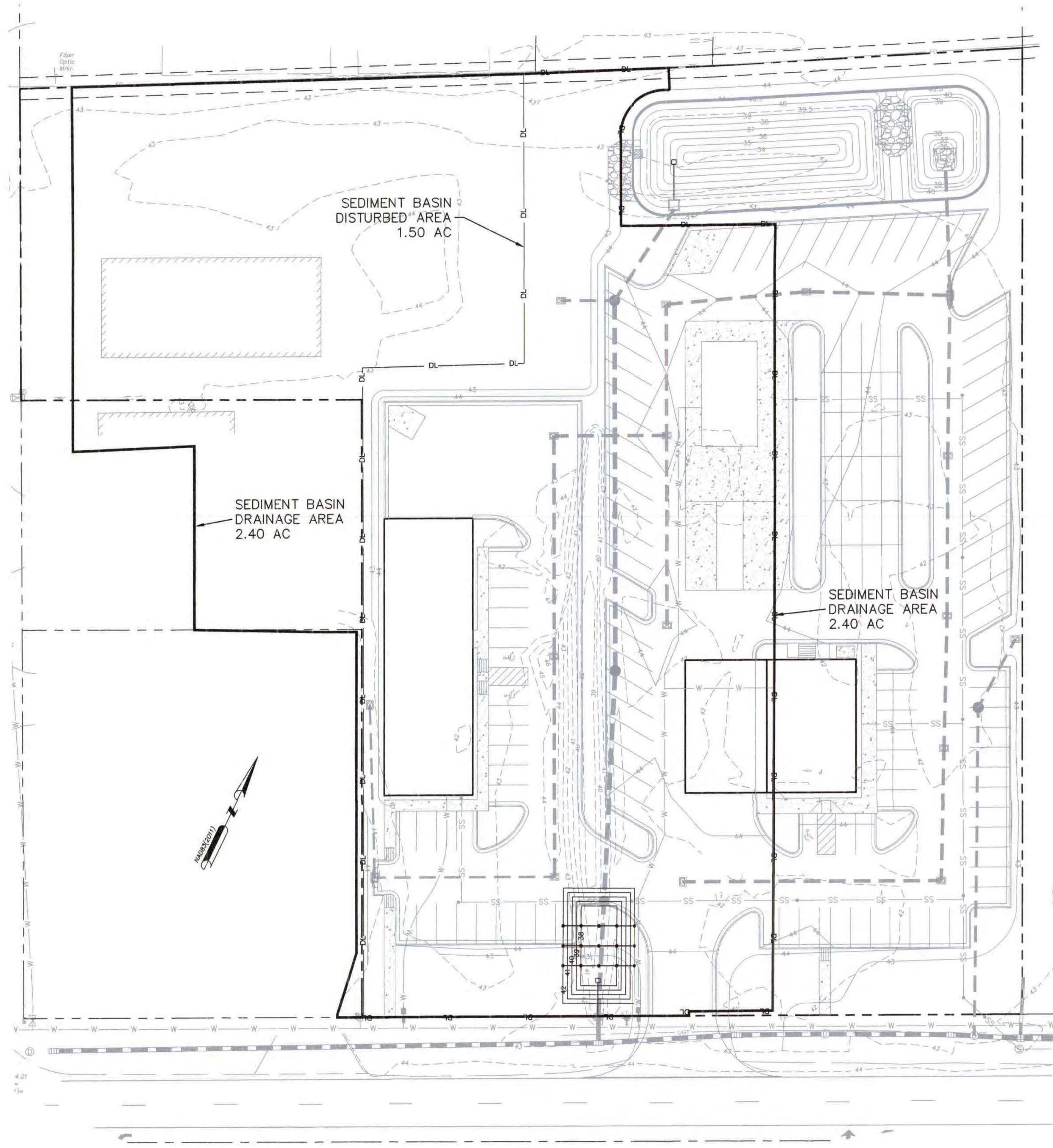
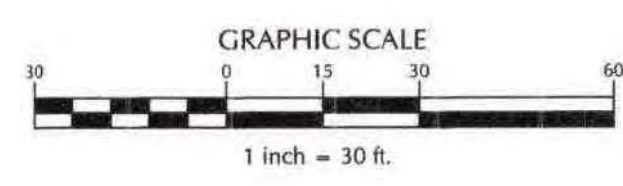



  
 CITY OF WILMINGTON
   
 NORTH CAROLINA
   
 Public Services • Engineering Division
   
 APPROVED STORMWATER MANAGEMENT PLAN
   
 Date: \_\_\_\_\_ Permit #: \_\_\_\_\_
   
 Signed: \_\_\_\_\_

**Approved Construction Plan**
  
 Date: 9/25/20
   
 # 2020026
   
 SWP #: 2020030
   
 PO, ES, BM, MB, CW



NOTE: SEDIMENT BASIN #2 MUST BE INSTALLED AS THE SITE IS CLEARED AND MUST STAY IN PLACE UNTIL BASIN#1 AND ALL THE STORM CULVERTS HAVE BEEN INSTALLED



No.	Revision	Date	By
1	REVISED PER CITY COMMENTS	8/13/20	MNH
2	REVISED PER COUNTY COMMENTS	9/8/20	MNH

Designer	MNH	Scale	AS SHOWN
Drawn By	MNH	Date	JULY, 2020
Checked By	MNH	Job No.	

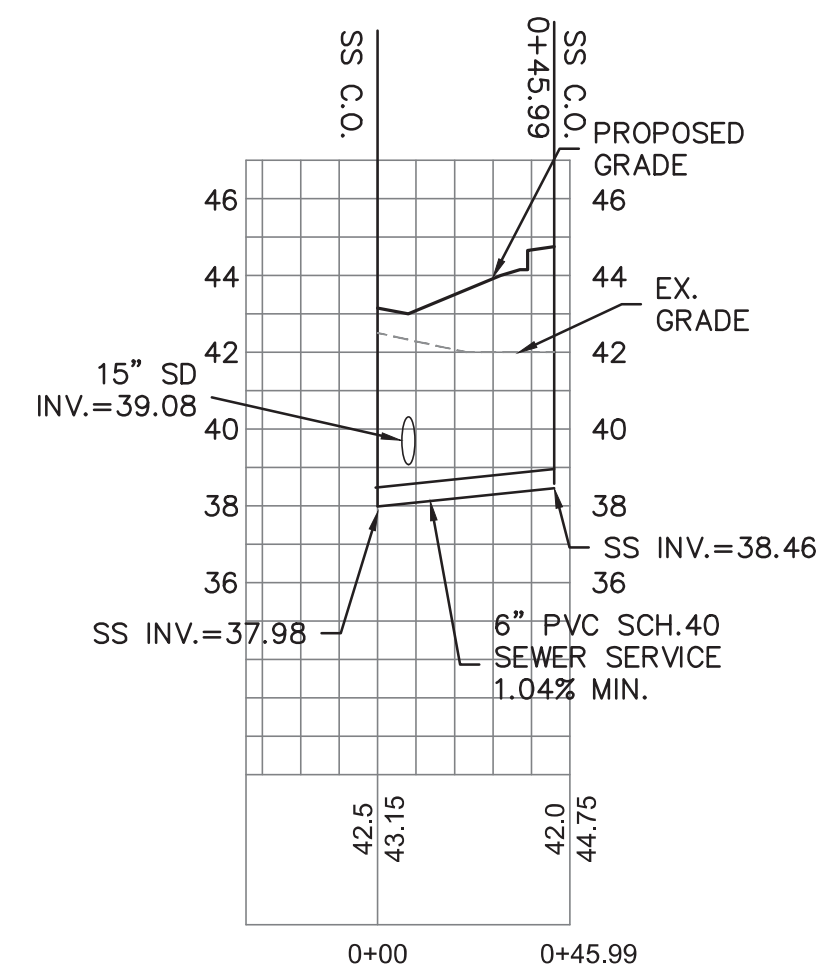
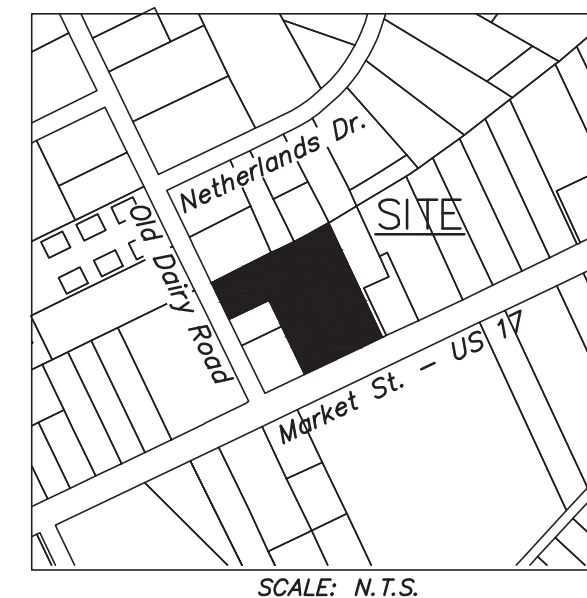
**ENTERPRISE RENT-A-CAR MARKET STREET**
  
 WILMINGTON NORTH CAROLINA

H & S FAMILY HOLDINGS, LLC
   
 1608 MARKET STREET
   
 WILMINGTON, NC 28401

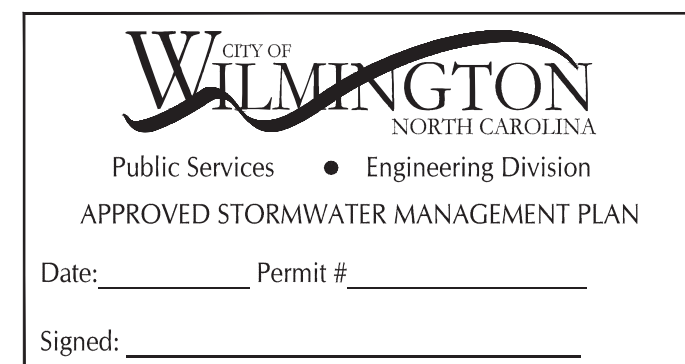
PORT CITY CONSULTING
   
 ENGINEERS, PLLC
   
 6216 STONEBRIDGE ROAD
   
 WILMINGTON, NC 28409
   
 910-599-1744 LICENSE No. P-1032

**EROSION CONTROL PLAN**

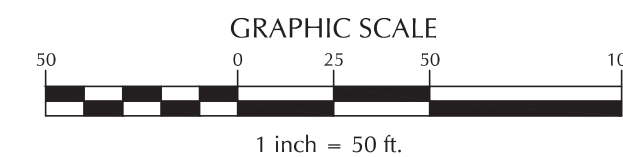
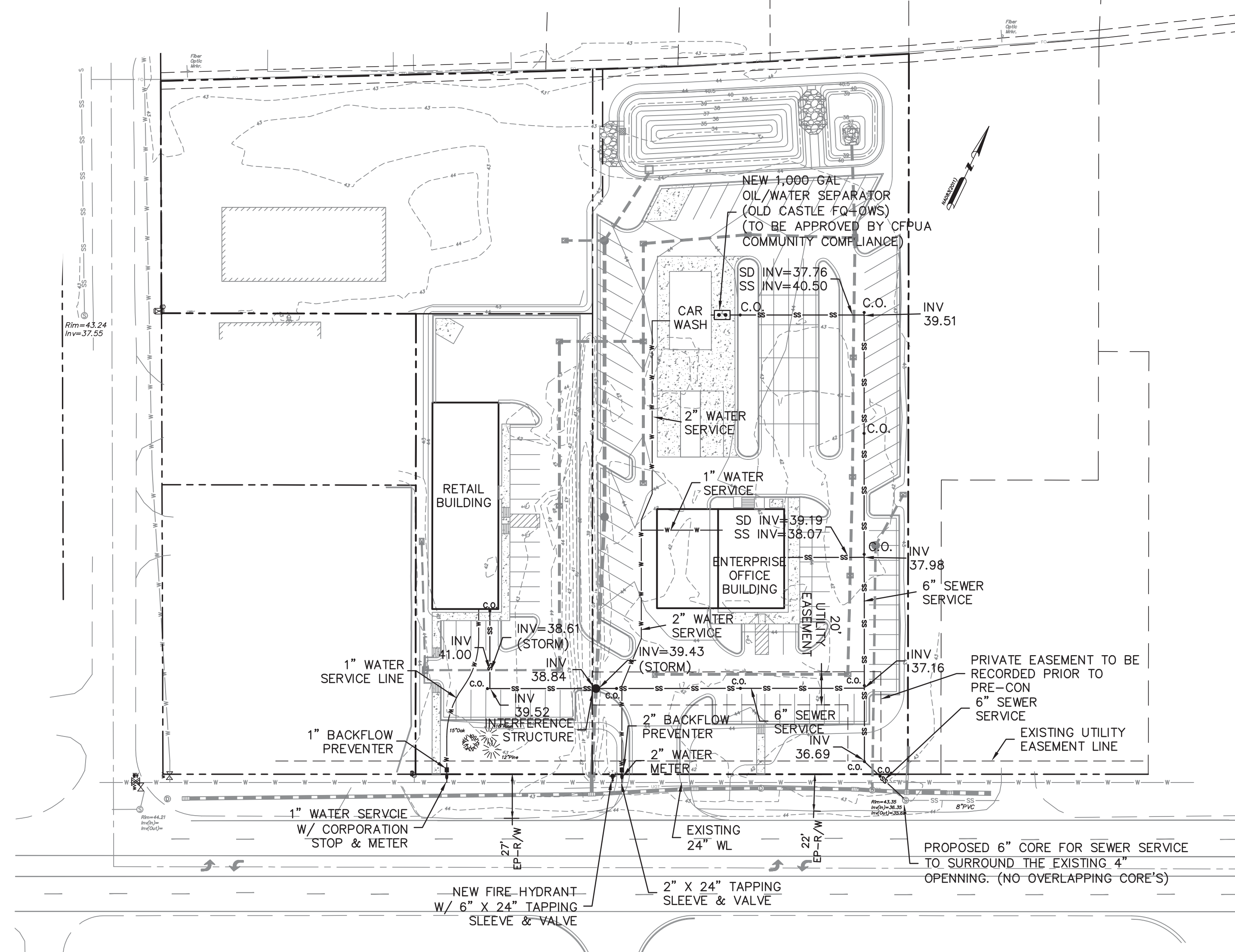
Sheet No.
   
**C-5**



ENTERPRISE OFFICE BUILDING  
SEWER SERVICE



**Approved Construction Plan**  
**Date: 9/25/20**  
**# 2020026**  
**SWP #: 2020030**  
**PO, ES, BM, MB, CW**

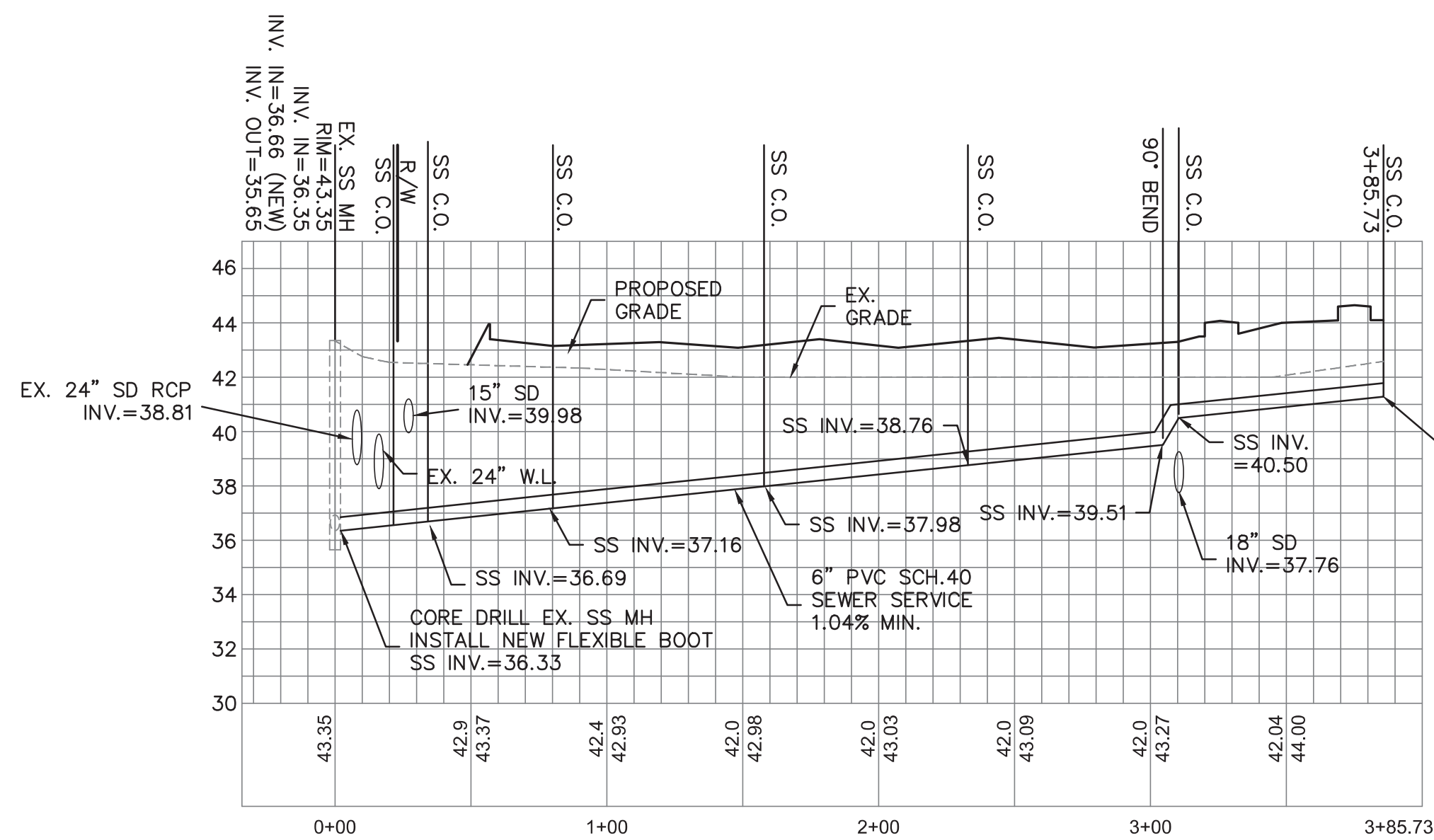


**Fire & Life Safety Notes:**

- Contractor shall maintain an all weather access for emergency vehicles at all times during construction.
- Hydrants must be brought into service prior to combustible materials delivered to the job site.
- Landscaping or parking cannot block or impede fire hydrants. A 3-foot clear space shall be maintained around the circumference of hydrants at all times.
- Additional fire protection and/or accessibility requirements may be required due to any special circumstances concerning the project.
- Private Underground Fire Lines require a separate underground fire line permit from the Wilmington Fire and Life Safety Division (910-343-0696)
- Contractor shall submit a Radio Signal Strength Study for all commercial buildings that demonstrates that existing emergency responder radio signal levels meet the requirements of Section 510 and of 2018 NC Fire Code.
- The FDC must be within 150' of a fire hydrant & within 40' of fire apparatus placement.
- Installation of security gates across a fire apparatus road or parking lot shall be approved by the fire department.

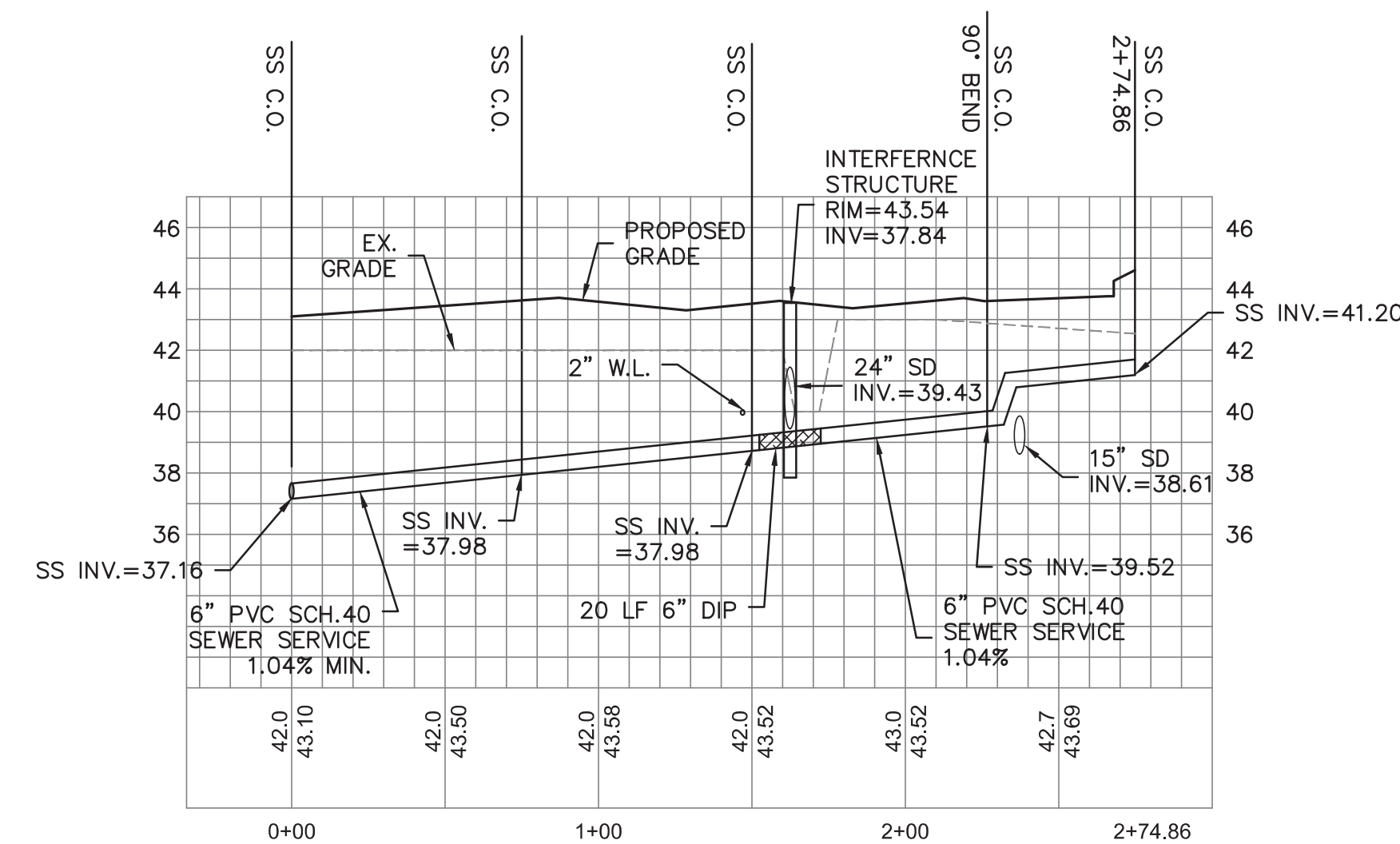
**CFPUA STANDARD SEWER NOTES:**

- ALL PROPOSED ADDITIONS TO THE CAPE FEAR PUBLIC UTILITY AUTHORITY (CFPUA) WATER DISTRIBUTION AND SANITARY SEWER COLLECTION SYSTEMS, AS SHOWN AND SPECIFIED HEREIN, SHALL BE DESIGNED AND CONSTRUCTED TO CONFORM TO STATE RULES AND CFPUA'S MINIMUM TECHNICAL STANDARDS. THE CFPUA MINIMUM TECHNICAL STANDARDS ARE CONTAINED IN THE CURRENT DESIGN GUIDANCE MANUAL, MATERIAL SPECIFICATIONS MANUAL, TECHNICAL SPECIFICATIONS FOR CONSTRUCTION, AND STANDARD DRAWING DETAILS.
- SEWER GUARDS REQUIRED AT ALL MANHOLES. STAINLESS STEEL SEWER GUARDS REQUIRED AT MANHOLES LOCATED IN TRAFFIC AREA.
- WATER & SEWER SERVICES SHALL BE PERPENDICULAR TO MAIN AND TERMINATE 18" INSIDE RIGHT-OF-WAY. SERVICES IN CUL-DE-SACS ARE REQUIRED TO BE PERPENDICULAR, OR MUST ORIGINATE IN MANHOLE AND TERMINATE 18" INSIDE RIGHT-OF-WAY LINE.
- ALL SEWER SERVICES CONNECTING INTO DUCTILE IRON MAINS SHALL ALSO BE CONSTRUCTED OF DIP
- MINIMUM 10' UTILITIES EASEMENT PROVIDED ALONG THE FRONTAGE OF ALL LOTS AND AS SHOWN FOR NEW DEVELOPMENTS.
- NO FLEXIBLE COUPLINGS SHALL BE USED.
- ALL STAINLESS STEEL FASTENERS SHALL BE 316.
- CLEANOUTS SHALL BE LOCATED A MINIMUM OF 6 FEET FROM ALL PROPERTY CORNERS.
- WATER METER BOXES ARE TO BE A MINIMUM OF 5 FEET FROM THE PROPERTY CORNERS.
- UNUSED SERVICES SHALL BE ABANDONED, ABANDONED WATER SERVICES SHALL BE DISCONNECTED FROM MAIN.
- A MINIMUM OF 10' OF MAIN LINE, 5' UPSTREAM AND 5' DOWNSTREAM SHALL BE REPLACED FOR NEW SEWER SERVICES CONNECTIONS ON EXISTING CLAY GRAVITY SEWER MAINS.
- A MINIMUM OF 20' OF MAIN LINE, 10' UPSTREAM AND 10' DOWNSTREAM SHALL BE REPLACED FOR NEW CUT IN MANHOLES ON EXISTING CLAY GRAVITY SEWER MAINS.
- PROVIDE A MINIMUM DISTANCE OF SIX (6) INCHES BETWEEN EDGES OF CORE HOLES. CORING THE MANHOLE CONE IS NOT PERMITTED.
- WATER MAIN AND FORCE MAIN PIPE INSTALLED BY OPEN CUT SHALL BE BURIED AT A MINIMUM OF THREE (3) FEET AND A MAXIMUM OF FIVE (5) FEET MUST BE APPROVED BY CFPUA.
- ALL MANHOLE MAIN LINE AND SERVICE PIPING TO BE INSTALLED AT A MINIMUM OF CROWN TO CROWN OF HTE LARGEST DIAMETER PIPE.



EX. SS MH TO CARWASH SEWER SERVICE

PROFILE  
 1"=50' (HORZ.)  
 1"=5' (VERT.)



RETAIL BUILDING SEWER SERVICE

No.	Revision	Date	By
1	ADDED SEWER EASEMENT	8/13/20	MNH
2	REVISED PER CFPUA COMMENTS	9/1/20	MNH

Designer	MNH	Scale	AS SHOWN
Drawn By	MNH	Date	JULY, 2020
Checked By	MNH	Job No.	

**ENTERPRISE RENT-A-CAR MARKET STREET**  
 WILMINGTON NORTH CAROLINA

**H & S FAMILY HOLDINGS, LLC**  
 1608 MARKET STREET  
 WILMINGTON, NC 28401

**PORT CITY CONSULTING ENGINEERS, PLLC**  
 6216 STONEBRIDGE ROAD  
 WILMINGTON, NC 28409  
 910-599-1744 LICENSE No. P-1032

**UTILITY PLAN**

Sheet No.  
**C-6.0**

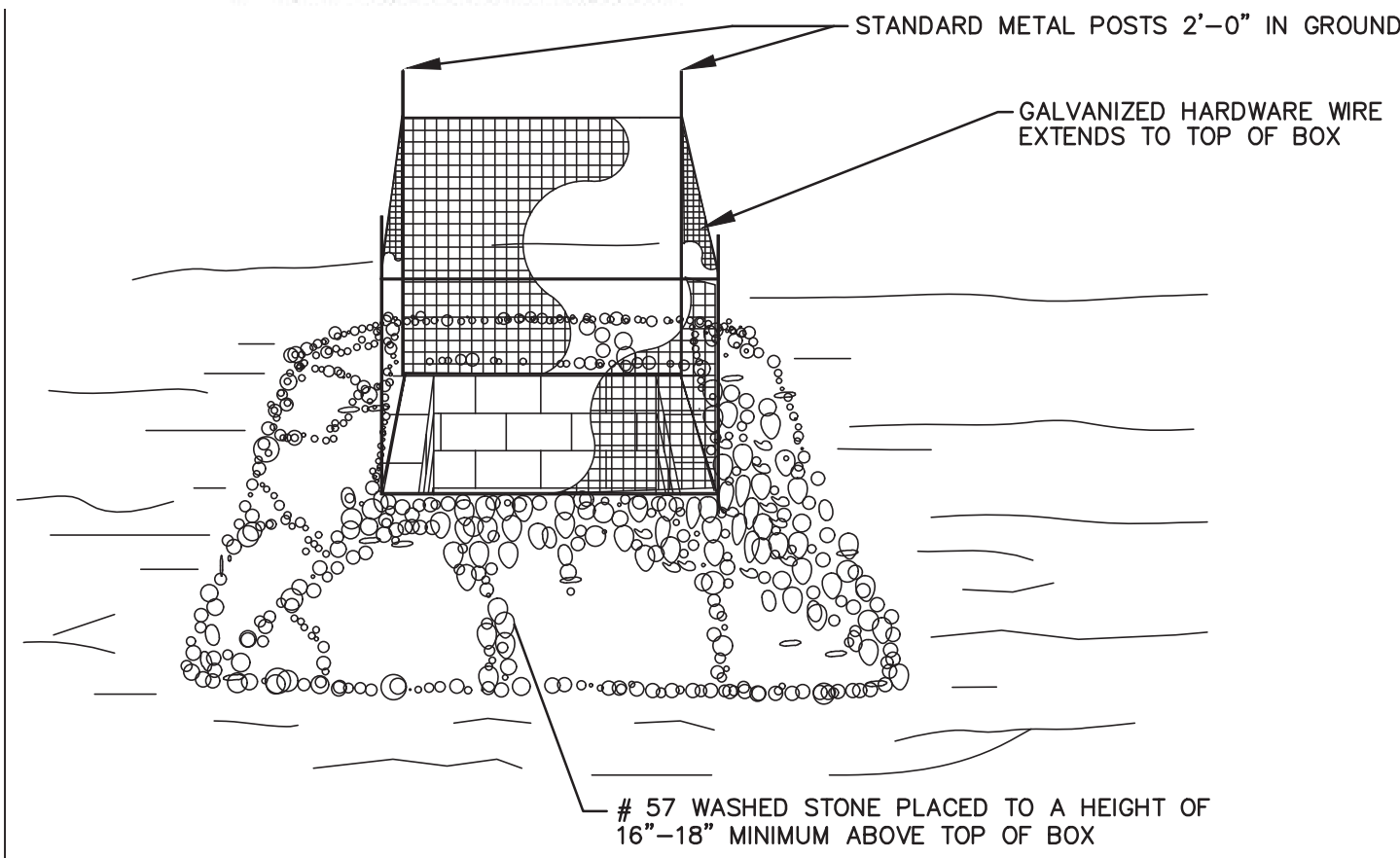
**Approved Construction Plan**

Date: 9/25/20

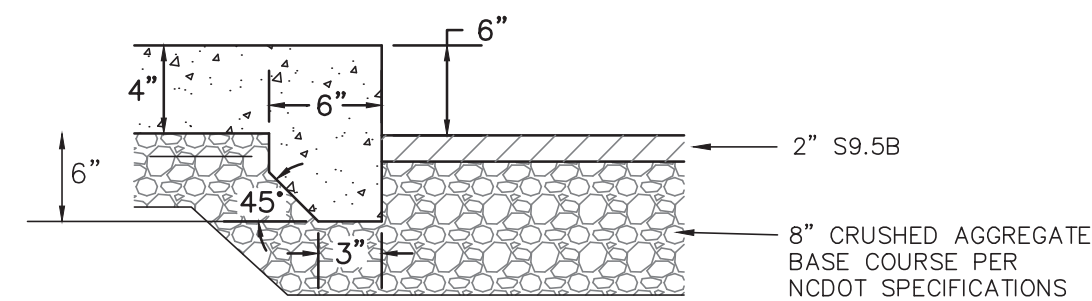
# 2020026

SWP #: 2020030

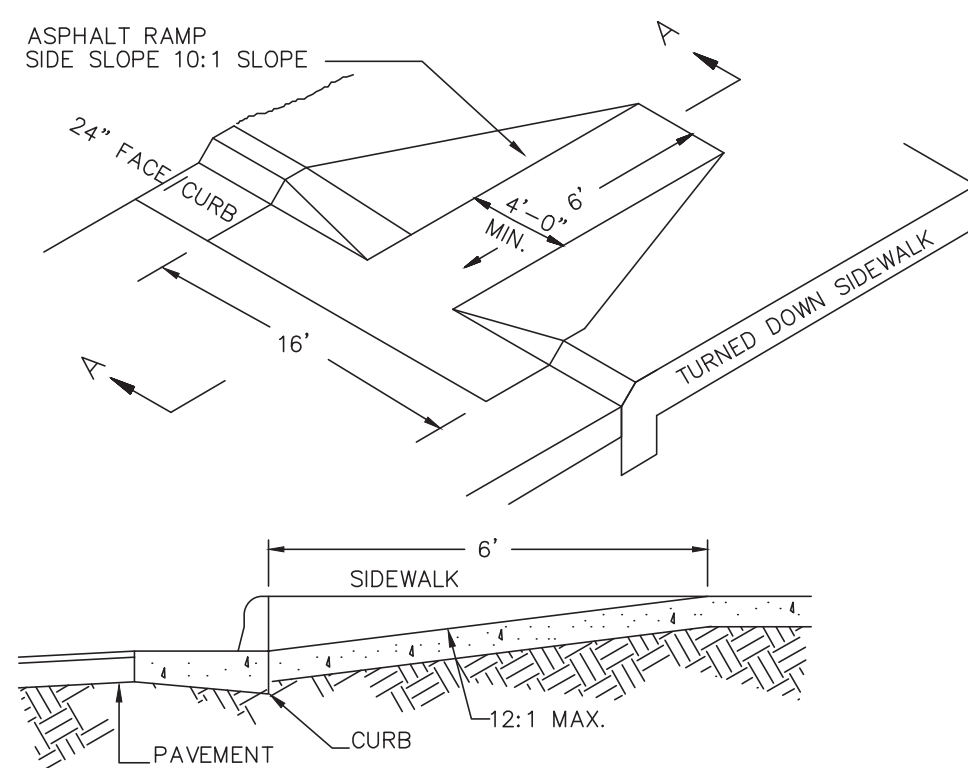
PO, ES, BM, MB, CW



STANDARD CATCH BASIN/YARD INLET PROTECTION  
N.T.S.

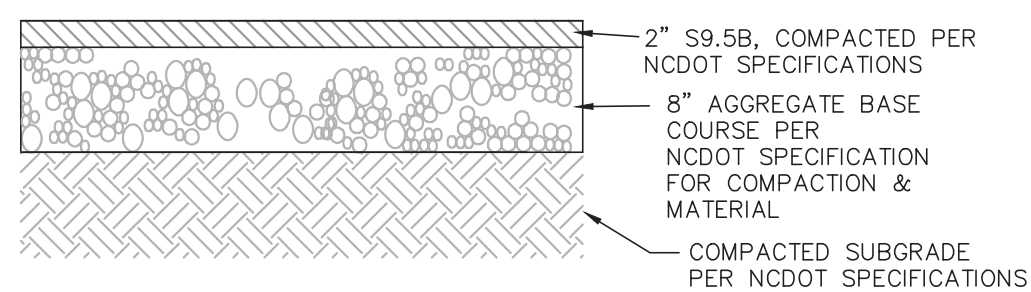


TURN-DOWN SIDEWALK  
N.T.S.

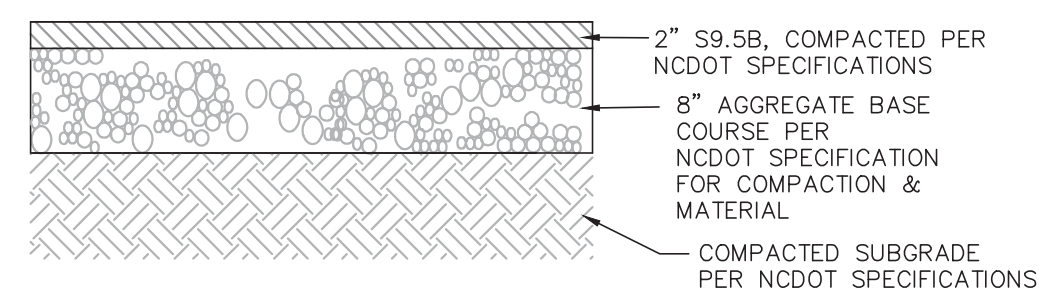


SECTION A-A  
WHEELCHAIR RAMP (DROP CURB)

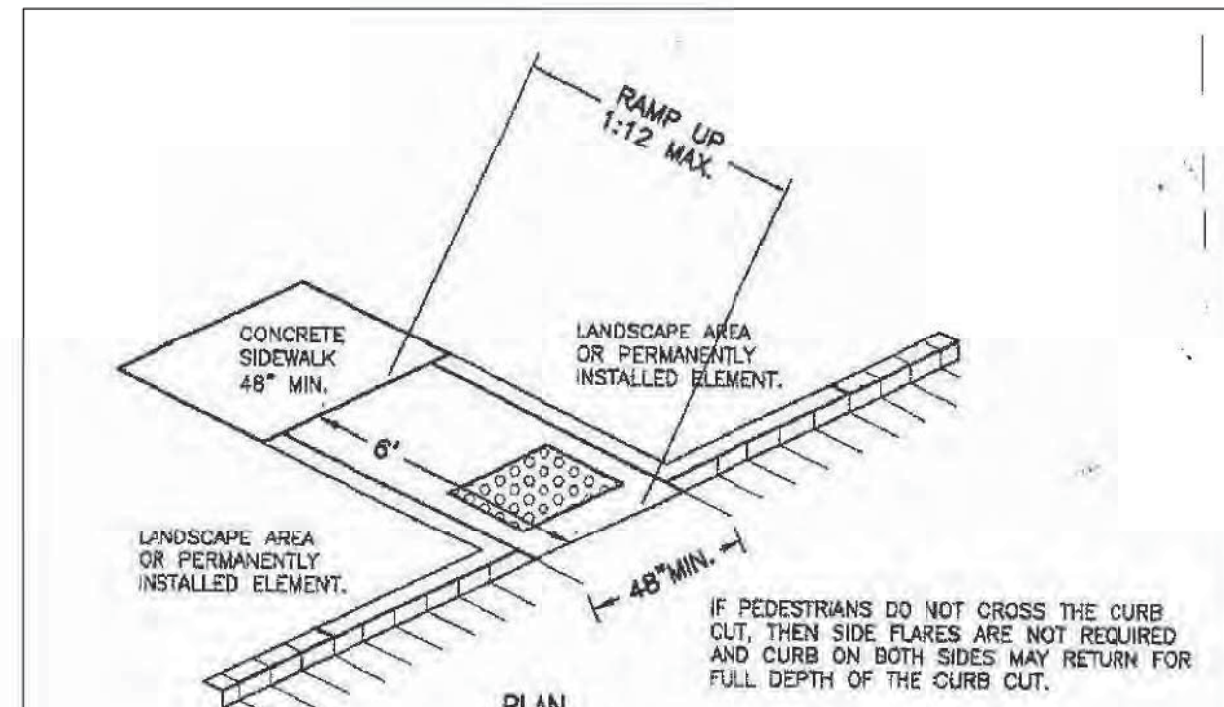
WHEELCHAIR RAMP  
N.T.S.



PARKING LOT PAVEMENT DETAIL  
N.T.S.

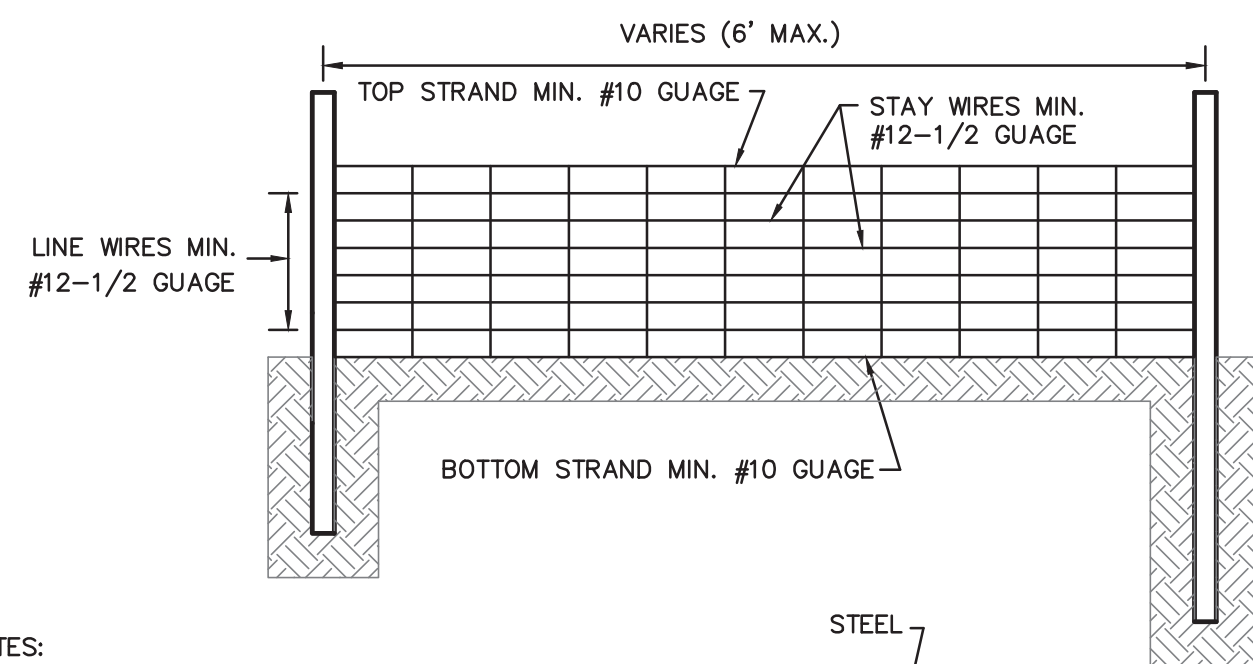


PAVING DETAIL WITHIN NCDOT R/W  
N.T.S.



NOTE:  
RAMP SHALL HAVE A DETECTABLE WARNING COMPLYING WITH ADA GUIDELINES:  
1. The detectable warning shall extend the full width and depth of the curb ramp.  
2. Detectable warnings shall consist of raised truncated domes with a diameter of nominal 0.9 in (23 mm), a height of nominal 0.2 in (5 mm) and a center-to-center spacing of nominal 2.35 in (60 mm) and shall contrast visually with adjoining surfaces, either light-on-dark, or dark-on-light. The material used to provide contrast should contrast by at least 70% - Refer to ADA Guidelines for definition of "Contrast".  
3. The material used to provide contrast shall be an integral part of the walking surface. Detectable warnings used on interior surfaces shall differ from adjoining walking surfaces in resiliency or sound-on-scan contact.

TYPICAL SIDEWALK AND  
WHEEL CHAIR RAMP DETAIL  
N.T.S.



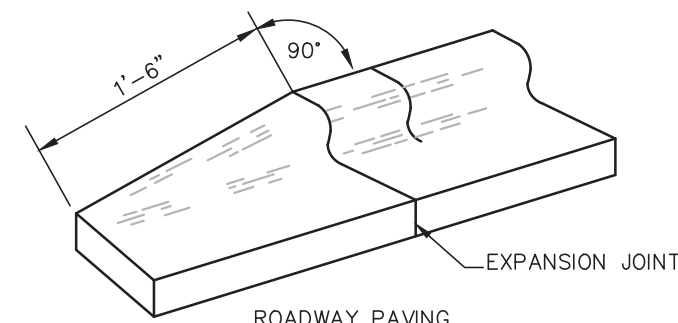
SILT FENCE  
N.T.S.

- NOTES:  
1. WIRE SHALL BE A MINIMUM OF 32" IN WIDTH AND SHALL HAVE A MINIMUM OF 6 LINE WIRES W/12" STAY SPACING  
2. FILTER FABRIC SHALL BE A MINIMUM OF 36" IN WIDTH AND SHALL BE FASTENED ADEQUATELY TO THE WIRE  
3. STEEL POST SHALL BE 5' 0" IN HEIGHT AND BE OF SELF FASTENER ANGLE STEEL TYPE

**CITY OF WILMINGTON**  
NORTH CAROLINA  
Public Services • Engineering Division  
APPROVED STORMWATER MANAGEMENT PLAN  
Date: \_\_\_\_\_ Permit # \_\_\_\_\_  
Signed: \_\_\_\_\_

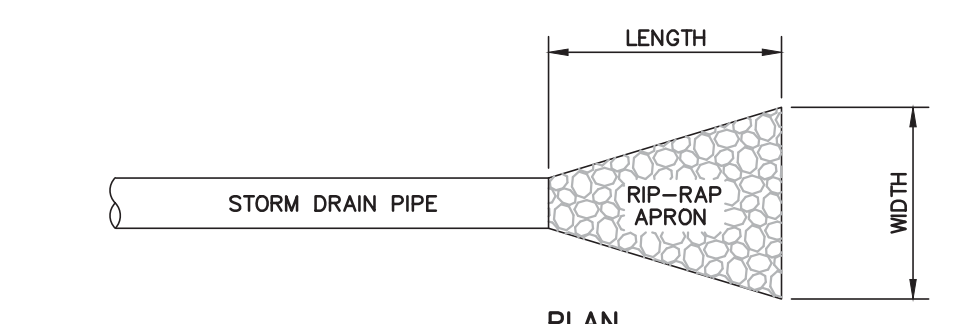
**Approved Construction Plan**

Name \_\_\_\_\_ Date \_\_\_\_\_  
Planning \_\_\_\_\_  
Traffic \_\_\_\_\_  
Fire \_\_\_\_\_

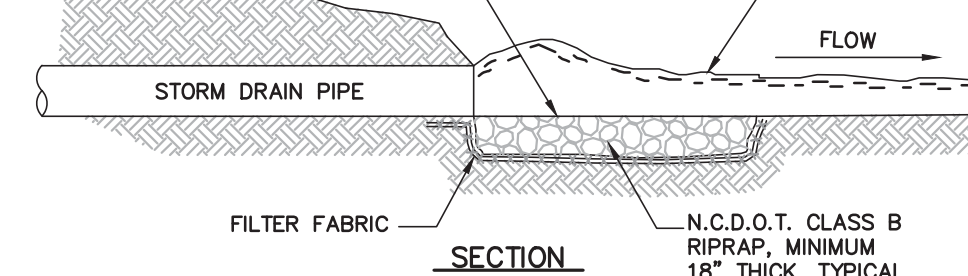


24" CURB & GUTTER  
TERMINATION DETAIL  
N.T.S.

CURB AND GUTTER  
N.T.S.



PLAN

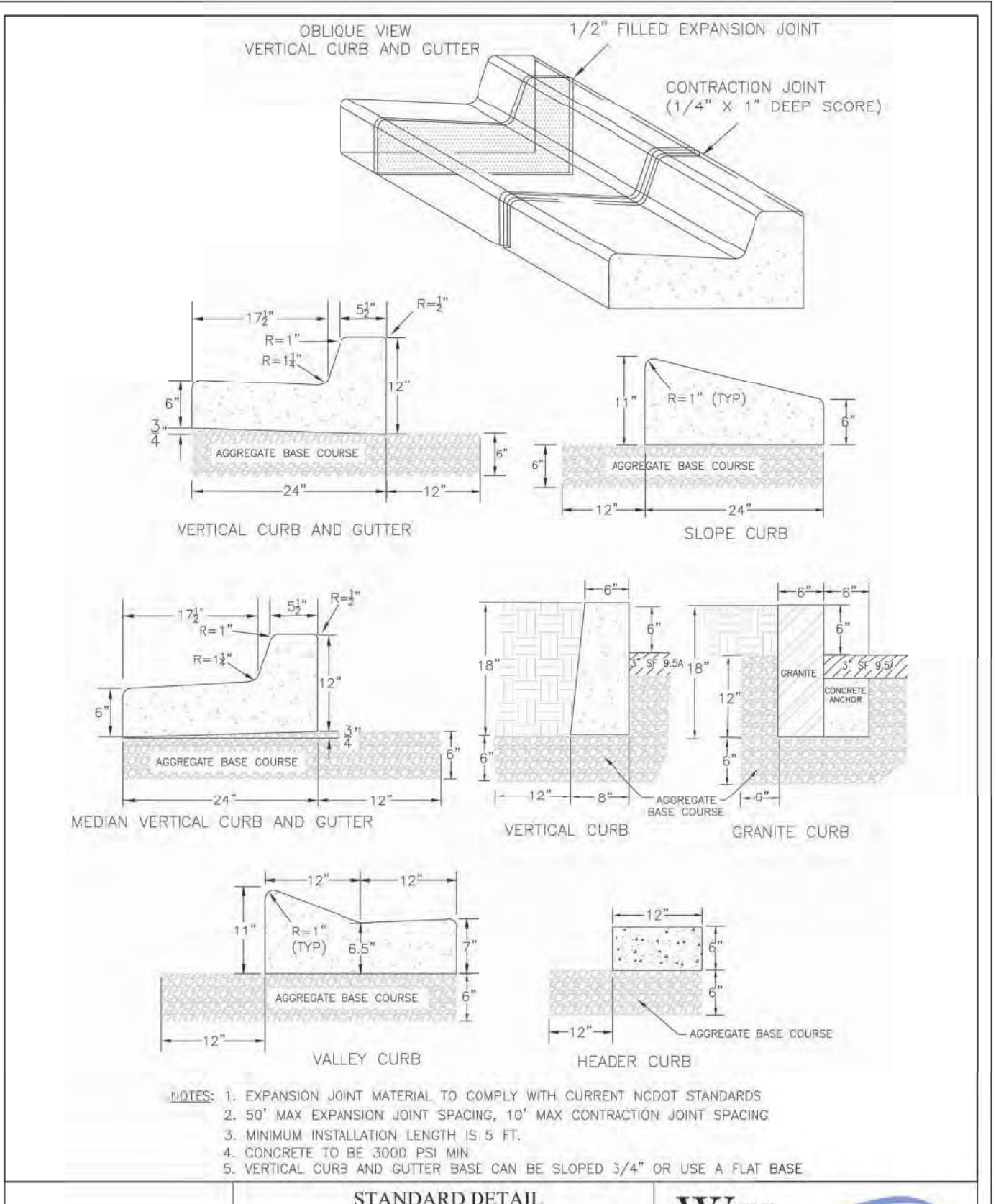


SECTION

**RIP-RAP SCHEDULE**

PIPE DIA. (IN.)	LENGTH (FT.)	UPSTREAM WIDTH (FT.)	DOWNSTREAM WIDTH (FT.)
RRA-1 30"	10.0	7.5'	10.0

RIP-RAP APRON  
N.T.S.



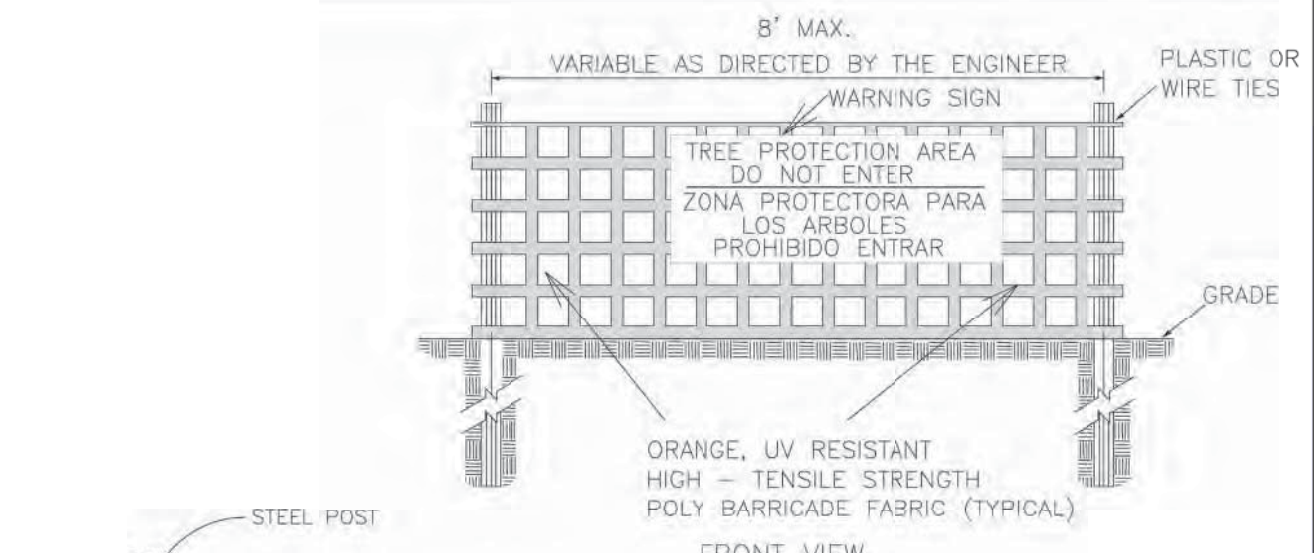
DATE: AUGUST, 2011  
DRAWN: PBJSR  
CHECKED: DEC  
SCALE: NOT TO SCALE

**STANDARD DETAIL**  
**CURBING**

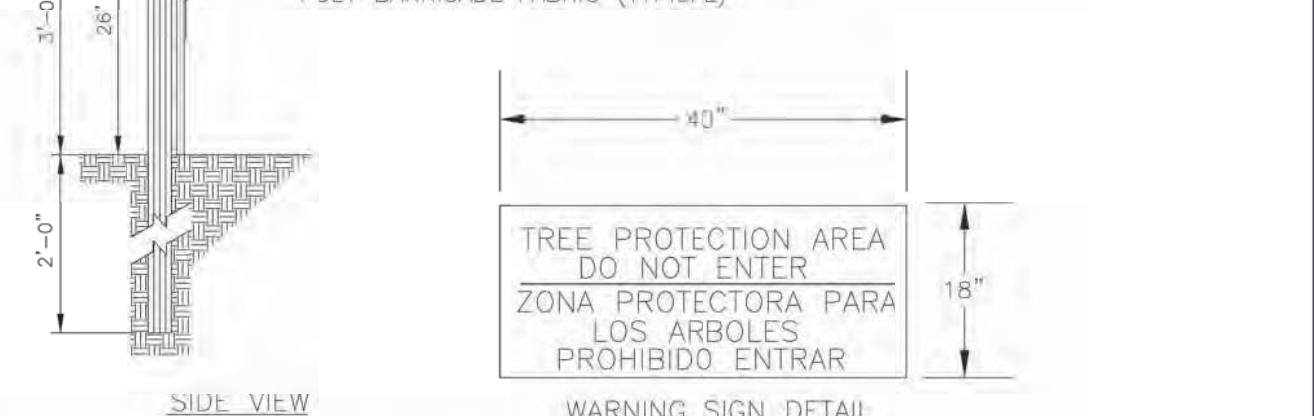
**CITY OF WILMINGTON**  
NORTH CAROLINA  
CITY OF WILMINGTON ENGINEERING  
PO BOX 1810  
WILMINGTON, N.C. 28402  
(910) 341-7807

SD 3-11

- NOTES:  
1. EXPANSION JOINT MATERIAL TO COMPLY WITH CURRENT NCDOT STANDARDS  
2. 50' MAX EXPANSION JOINT SPACING, 10' MAX CONTRACTION JOINT SPACING  
3. MINIMUM INSTALLATION LENGTH IS 5 FT.  
4. CONCRETE TO BE 3000 PSI MIN.  
5. VERTICAL CURB AND GUTTER BASE CAN BE SLOPED 3/4" OR USE A FLAT BASE



FRONT VIEW



WARNING SIGN DETAIL

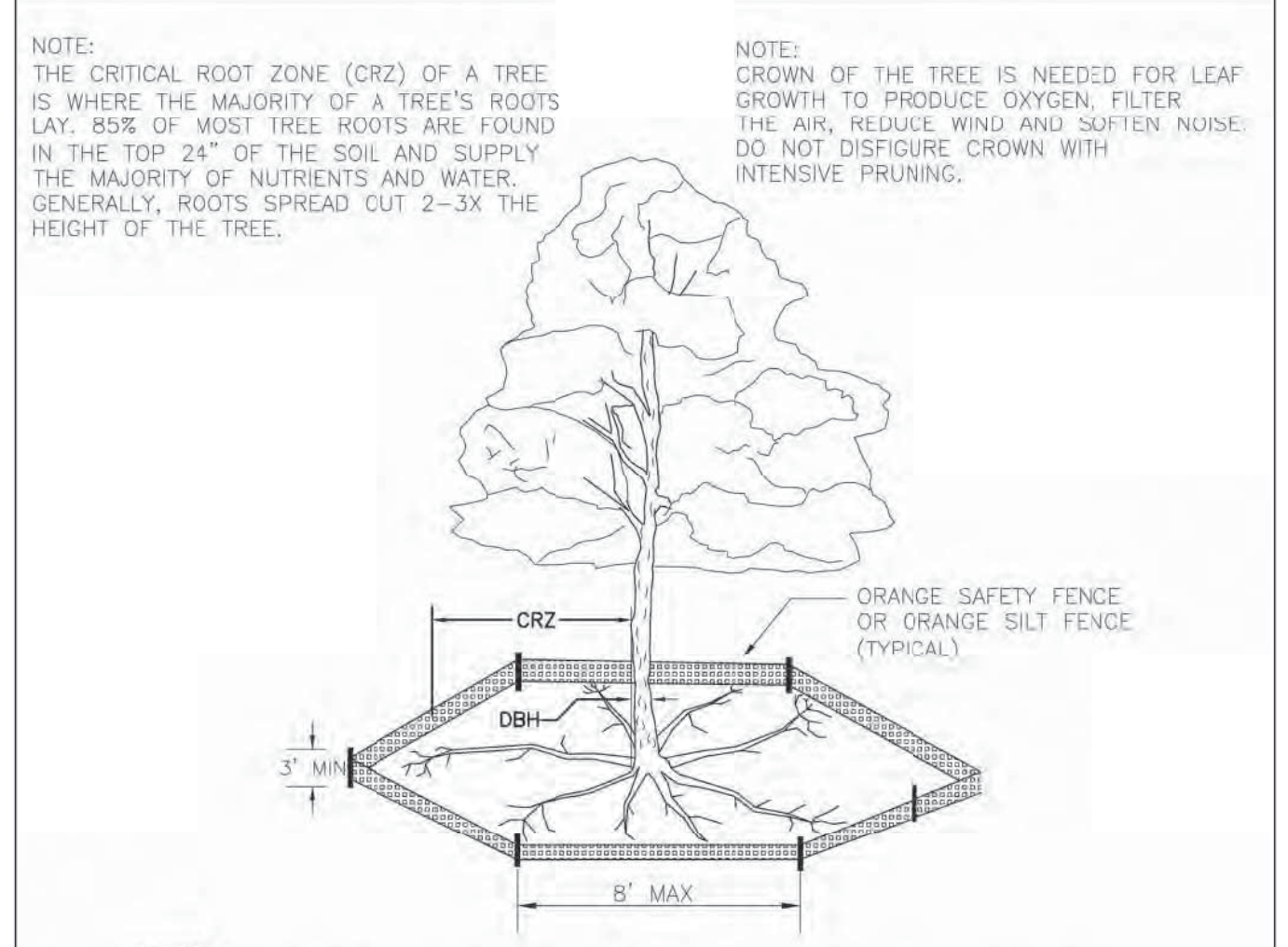
- NOTES:  
1. THE TREE PROTECTION FENCING SHALL NOT BE VIOLATED FOR THE ENTIRE DURATION OF THE PROJECT WITHOUT APPROVAL FROM URBAN FORESTRY STAFF.  
2. WARNING SIGNS TO BE MADE OF DURABLE, WEATHERPROOF MATERIAL. LETTERS TO BE 3" HIGH, MINIMUM, CLEARLY LEGIBLE AND SPACED AS DETAILED.  
3. SIGNS SHALL BE PLACED AT 50' MAXIMUM INTERVALS. PLACE A SIGN AT EACH END OF LINEAR TREE PROTECTION AND 50' ON CENTER THEREAFTER. FOR TREE PROTECTION AREAS LESS THAN 100' IN PERIMETER, PROVIDE NO LESS THAN TWO SIGNS PER PROTECTION AREA.  
4. ATTACH SIGNS SECURELY TO FENCE POSTS AND FABRIC. MAINTAIN TREE PROTECTION FENCE AND SIGNS THROUGHOUT DURATION OF PROJECT.  
5. TREE PROTECTION FENCING AND SIGNAGE SHALL BE REMOVED AFTER CONSTRUCTION.  
6. ADDITIONAL SIGNS MAY BE REQUIRED BY CITY OF WILMINGTON, BASED ON ACTUAL FIELD CONDITIONS.

DATE: JAN, 2015  
DRAWN BY: JSR  
CHECKED BY: RDG, P.E.  
SCALE: NOT TO SCALE

**STANDARD DETAIL**  
**TREE PROTECTION DURING CONSTRUCTION**

**CITY OF WILMINGTON**  
NORTH CAROLINA  
CITY OF WILMINGTON ENGINEERING  
PO BOX 1810  
WILMINGTON, NC 28402  
(910) 341-7807

SHEET 2 of 2  
SD 15-09



- NOTE:  
THE CRITICAL ROOT ZONE (CRZ) OF A TREE IS WHERE THE MAJORITY OF A TREE'S ROOTS LAY. 85% OF MOST TREE ROOTS ARE FOUND IN THE TOP 24" OF THE SOIL AND SUPPLY THE MAJORITY OF NUTRIENTS AND WATER. GENERALLY, ROOTS SPREAD CUT 2-3X THE HEIGHT OF THE TREE.
- NOTE:  
THE GROWTH OF THE TREE IS NEEDED FOR LEAF PRODUCTION TO PRODUCE OXYGEN, FILTER THE AIR, REDUCE WIND AND SOFTEN NOISE. DO NOT DISFIGURE CROWN WITH INTENSIVE PRUNING.
- NOTES:  
1. PROTECT CRITICAL ROOT ZONE (CRZ) OF TREES PRIOR TO CONSTRUCTION. CLEARLY MARK THE TREES AND ERECT A PROTECTIVE BARRIER AT THE CRZ. BARRIER SHALL BE MAINTAINED UNTIL CONSTRUCTION IS COMPLETE.  
2. CRZ RADIUS IS 1 FT PER INCH OF TREE DIAMETER AT BREAST HEIGHT (DBH).  
3. IF CONSTRUCTION OCCURS WITHIN THE CRZ, AT LEAST 12" OF MULCH AND/OR LOGGING MATS SHALL BE PLACED WHERE MACHINERY MANEUVERS TO REDUCE SOIL COMPACTION IN THIS ZONE.  
4. WHERE SIDEWALKS AND PATHWAYS PASS WITHIN CRZ, EXTRA CARE SHALL BE TAKEN TO AVOID DAMAGE TO THE ROOTS. ALTERNATE CONSTRUCTION METHODS, SUCH AS A REINFORCED SIDEWALK, SHALL BE IMPLEMENTED AS NECESSARY.  
5. FOR ALL TREES, CUTTING OF LARGE STRUCTURAL ROOTS LOCATED NEAR THE BASE OF THE TRUNK IS PROHIBITED. DO NOT COMPACT SOIL BENEATH TREES. NO VEHICLE SHALL BE ALLOWED TO PARK UNDER TREES. NO MATERIALS OR EQUIPMENT SHALL BE STORED BENEATH TREES. DAMAGING THE BARK WITH LAWNMOWERS, CONSTRUCTION EQUIPMENT, OR ANYTHING ELSE IS PROHIBITED. CONTRACTOR SHALL REPAIR DAMAGE TO TREES.  
6. FAILING TO INSTALL OR MAINTAIN PROTECTION MEASURES SHALL RESULT IN A STOP WORK ORDER AND FINE OF \$500/DAY. DISTURBANCE OTHER THAN THAT ALLOWED ON THE APPROVED PLAN WILL REQUIRE OWNER TO POST A LETTER OF CREDIT FOR 3 YRS FOR TREE MITIGATION.

DATE: JAN, 2015  
DRAWN BY: JSR  
CHECKED BY: RDG, P.E.  
SCALE: NOT TO SCALE

**STANDARD DETAIL**  
**TREE PROTECTION DURING CONSTRUCTION**

**CITY OF WILMINGTON**  
NORTH CAROLINA  
CITY OF WILMINGTON ENGINEERING  
PO BOX 1810  
WILMINGTON, NC 28402  
(910) 341-7807

SHEET 1 of 2  
SD 15-09

No.	Revision	Date	By
1	CHANGED PROJECT NAME	8/13/20	MNH

Designer: MNH  
Scale: AS SHOWN  
Drawn By: MNH  
Date: JULY, 2020  
Checked By: MNH  
Job No.:

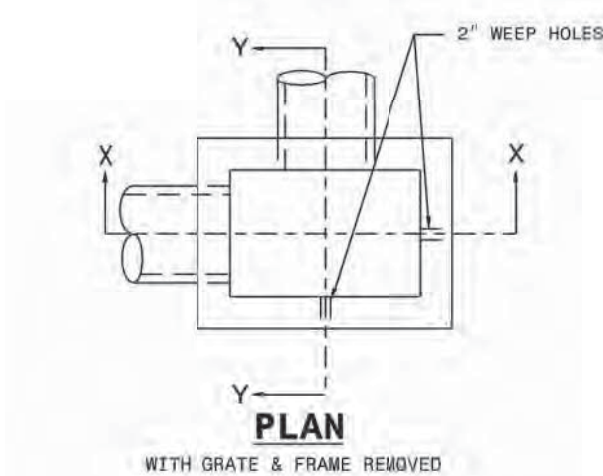
**ENTERPRISE RENT-A-CAR MARKET STREET**  
WILMINGTON NORTH CAROLINA

**H & S FAMILY HOLDINGS, LLC**  
1608 MARKET STREET  
WILMINGTON, NC 28401

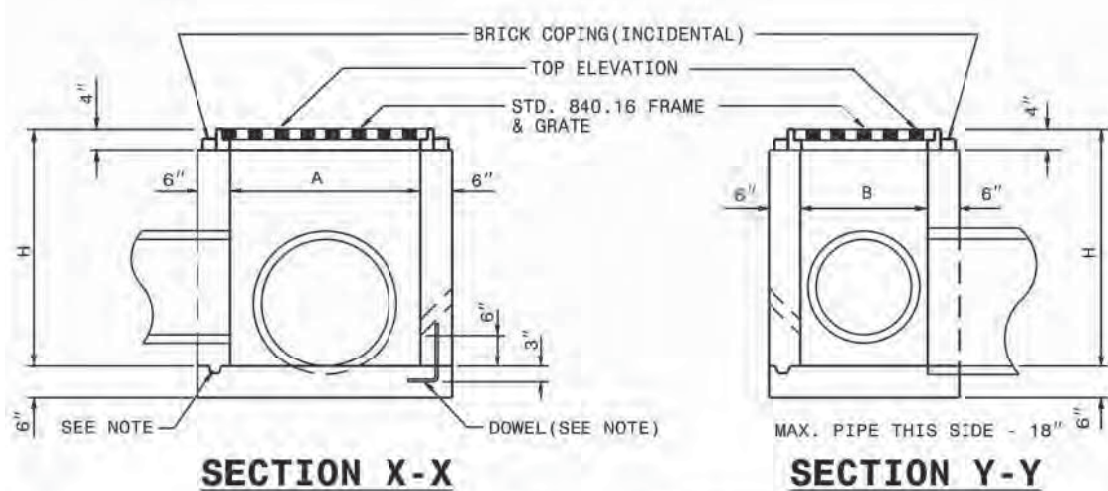
**PORT CITY CONSULTING ENGINEERS, PLLC**  
6216 STONEBRIDGE ROAD  
WILMINGTON, NC 28409  
910-599-1744 LICENSE No. P-1032

**MISCELLANEOUS DETAILS**

Sheet No. **C-7.0**



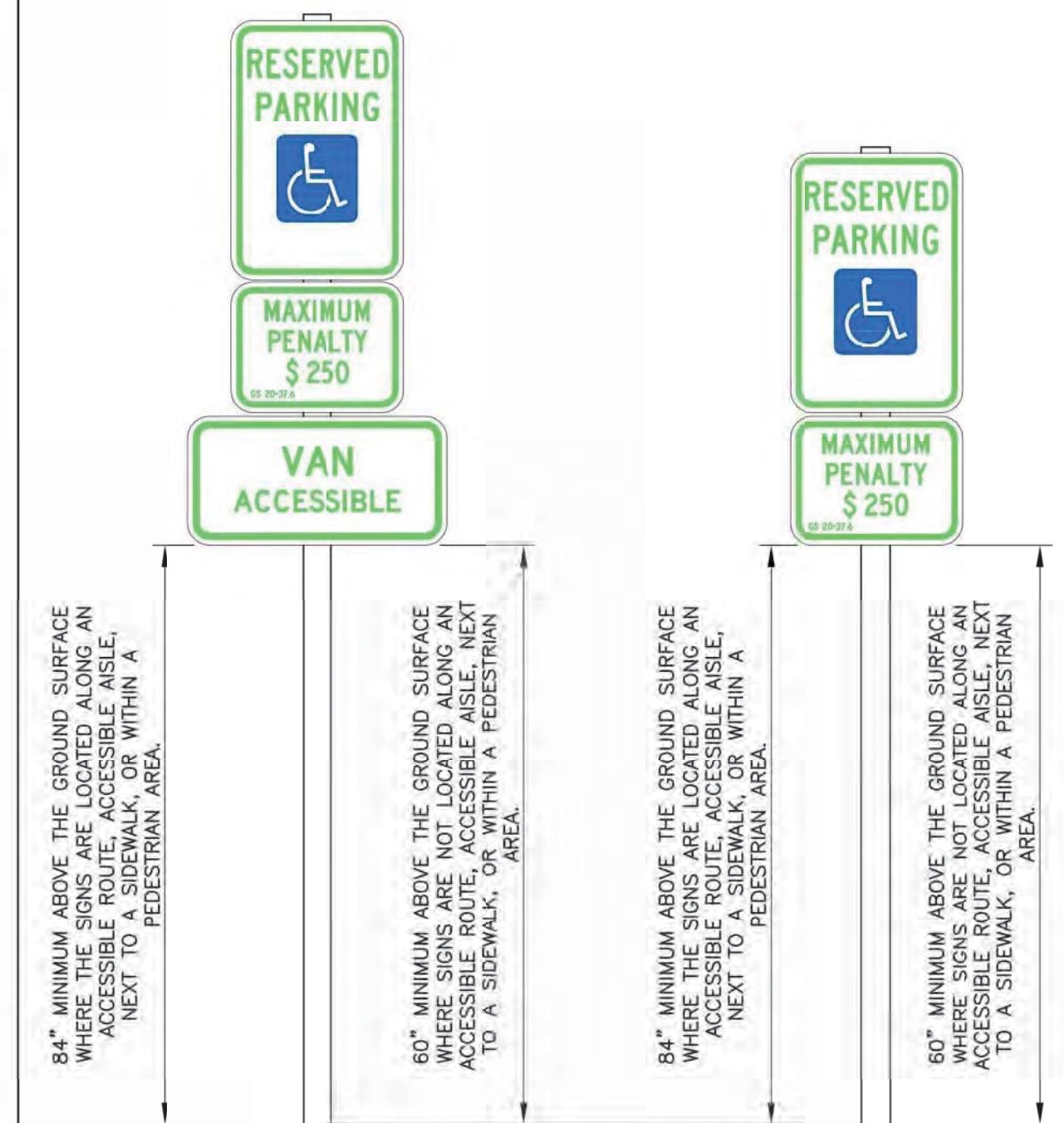
GENERAL NOTES:  
 USE CLASS "B" CONCRETE THROUGHOUT.  
 PROVIDE ALL DROP INLETS OVER 3'-0" IN DEPTH WITH STEPS 12" ON CENTER. USE STEPS WHICH COMPLY WITH STD. DRAWING 840-09. OPTIONAL CONSTRUCTION - MONOLITHIC PAIR 2" KEYWAY OR #4 BAR DOMELS AT 12" CENTERS AS DIRECTED BY THE ENGINEER.  
 USE FORMS FOR THE CONSTRUCTION OF THE BOTTOM SLAB.  
 IF REINFORCED CONCRETE PIPE IS SET IN BOTTOM SLAB OF BOX, ADD TO SLAB AS SHOWN ON STD. 840-09.  
 CONSTRUCT WITH PIPE CROWNS MATCHING.  
 SEE STANDARD DRAWING 840-25 FOR ATTACHMENT OF FRAMES AND GRATES NOT SHOWN.  
 INSTALL 2" WEEPHOLES AS DIRECTED BY THE ENGINEER.  
 INSTALL STONE DRAINS OF A MINIMUM OF 1 CUBIC FOOT OF NO. 7MM STONE IN A POROUS FABRIC BAG OR W/APP. AT EACH WEEP HOLE OR AS DIRECTED BY THE ENGINEER.  
 CHAMFER ALL EXPOSED CORNERS 1".  
 DRAWING NOT TO SCALE.



DIMENSIONS AND QUANTITIES FOR DROP INLET (BASED ON MIN. HEIGHT, H)									
DIMENSIONS OF BOX & PIPE			SUBIC YARDS CONC. IN BOX			DEDUCTIONS FOR ONE PIPE			
PIPE	SPAN	WIDTH	MIN. HEIGHT	BOTTOM WALL PERI. SLAB	FT.	HT.	CONC. FOR ENTRANCE	C.M.	R.C.
12"	3'-0"	2'-0"	2'-0"	0.222	0.222	0.592	0.015	0.028	
18"	3'-0"	2'-0"	2'-3"	0.222	0.222	0.648	0.023	0.036	
24"	3'-0"	2'-0"	3'-0"	0.222	0.222	0.703	0.033	0.048	
30"	3'-0"	2'-0"	3'-6"	0.222	0.222	0.814	0.039	0.055	
				0.222	0.222	0.925	0.042	0.062	

NOTE: USE TRAFFIC BEARING FRAME & GRATE

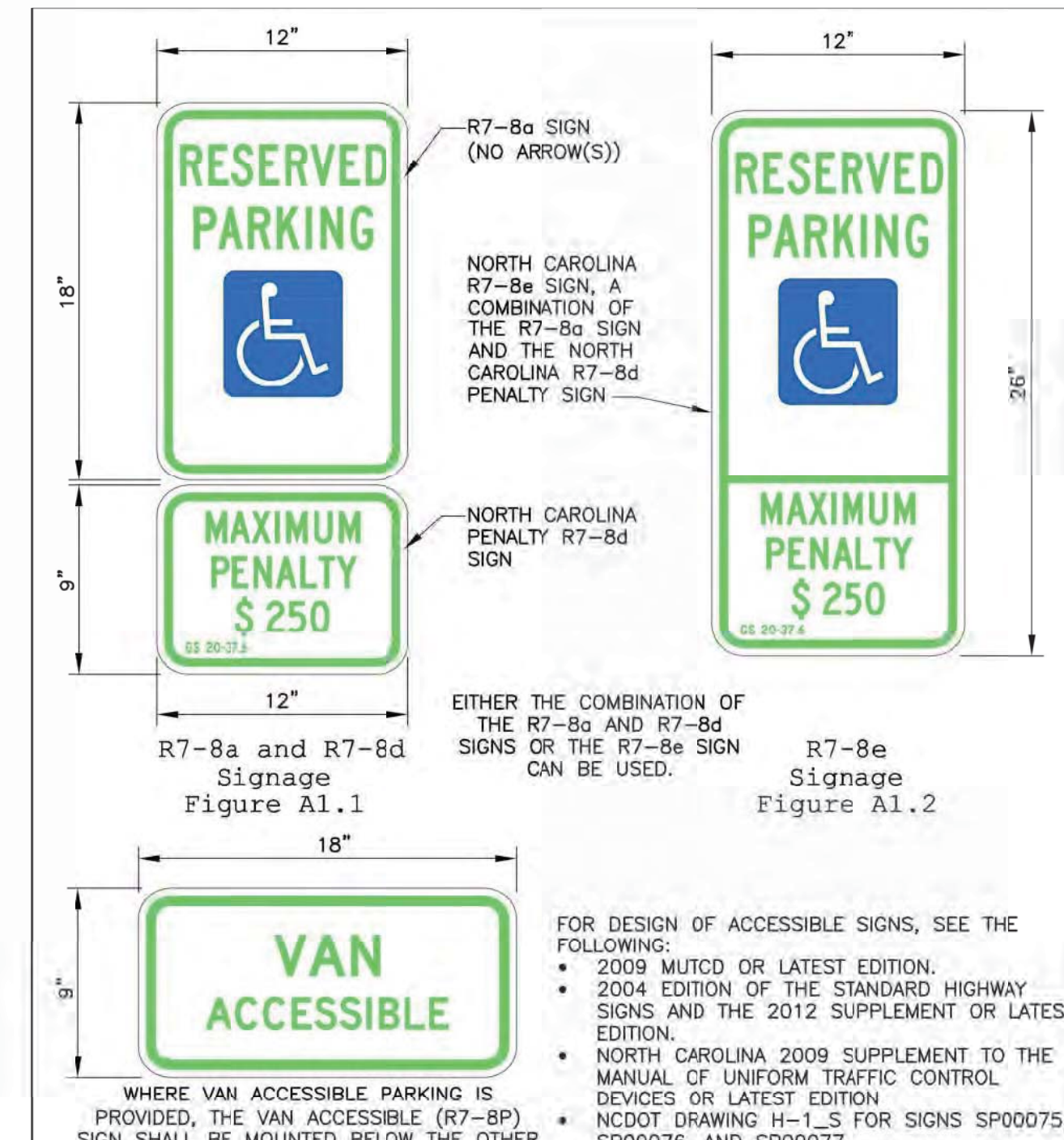
STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C.  
 ROADWAY STANDARD DRAWING FOR CONCRETE DROP INLET 12" THRU 30" PIPE  
 SHEET 1 OF 1  
 840.14



DATE: NOVEMBER 8, 2016  
 DRAWN BY: DALE THOMPSON  
 CHECKED BY: RANDALL GLAZIER  
 SCALE: NOT TO SCALE

ACCESSIBLE PARKING SIGNS AND INSTALLATION DETAILS  
 SHEET A2 OF 5

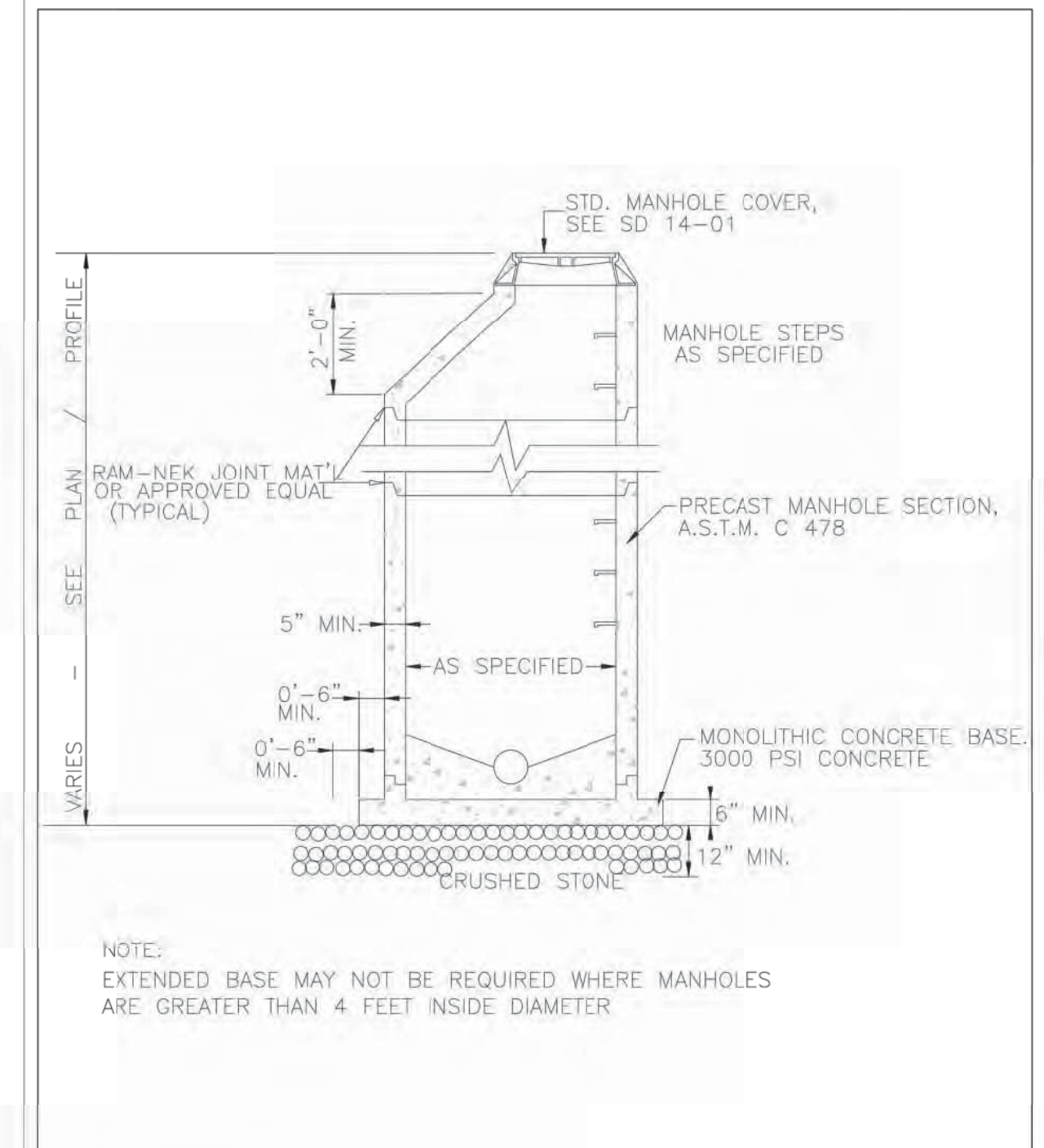
WILMINGTON TRAFFIC ENGINEERING  
 P.O. Box 1810 • Wilmington, NC 28402 • (910) 341-7807



DATE: NOVEMBER 8, 2016  
 DRAWN BY: DALE THOMPSON  
 CHECKED BY: RANDALL GLAZIER  
 SCALE: NOT TO SCALE

ACCESSIBLE PARKING SIGNS AND INSTALLATION DETAILS  
 SHEET A1 OF 5

WILMINGTON TRAFFIC ENGINEERING  
 P.O. Box 1810 • Wilmington, NC 28402 • (910) 341-7807

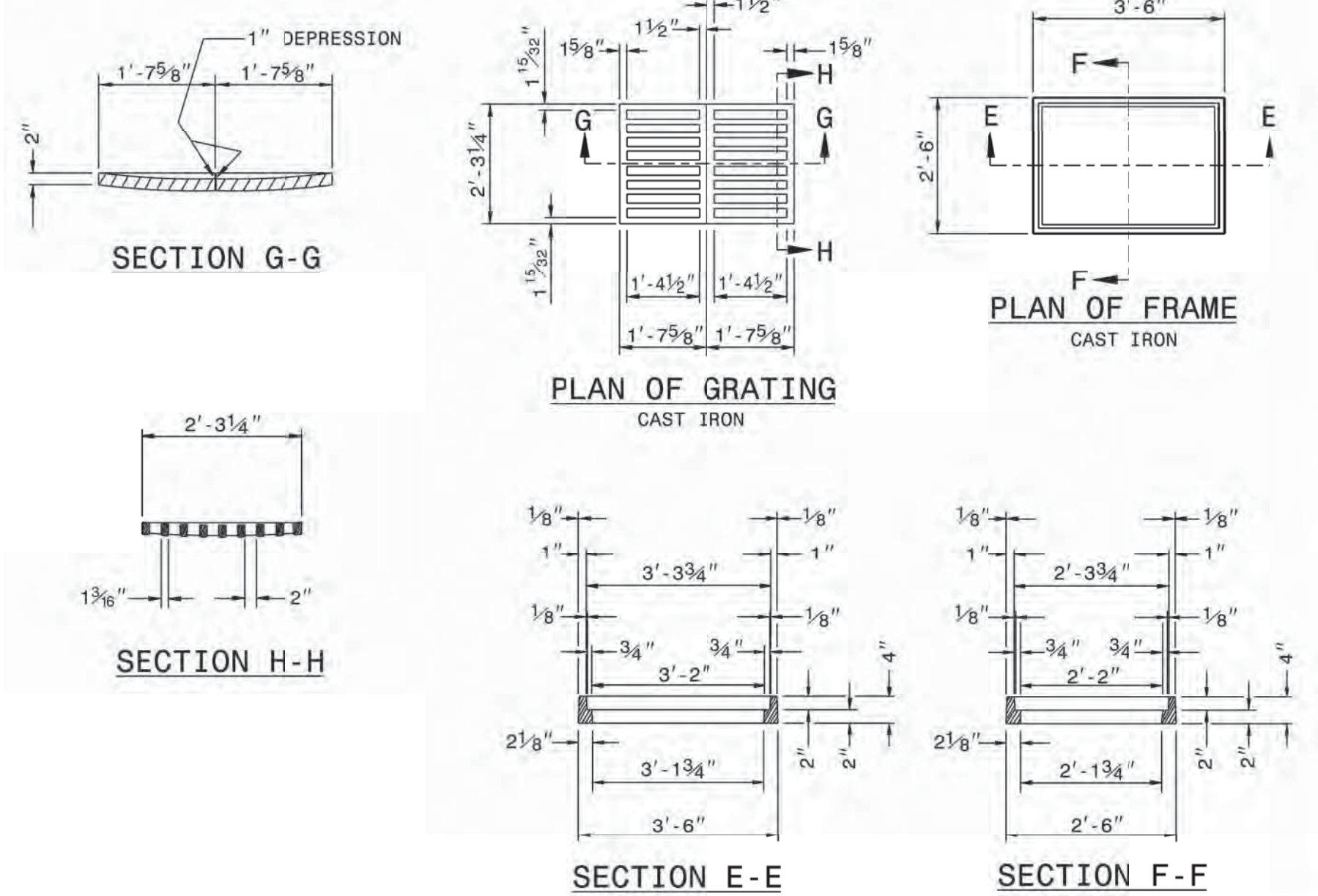


STANDARD DETAIL  
 PRECAST MANHOLE

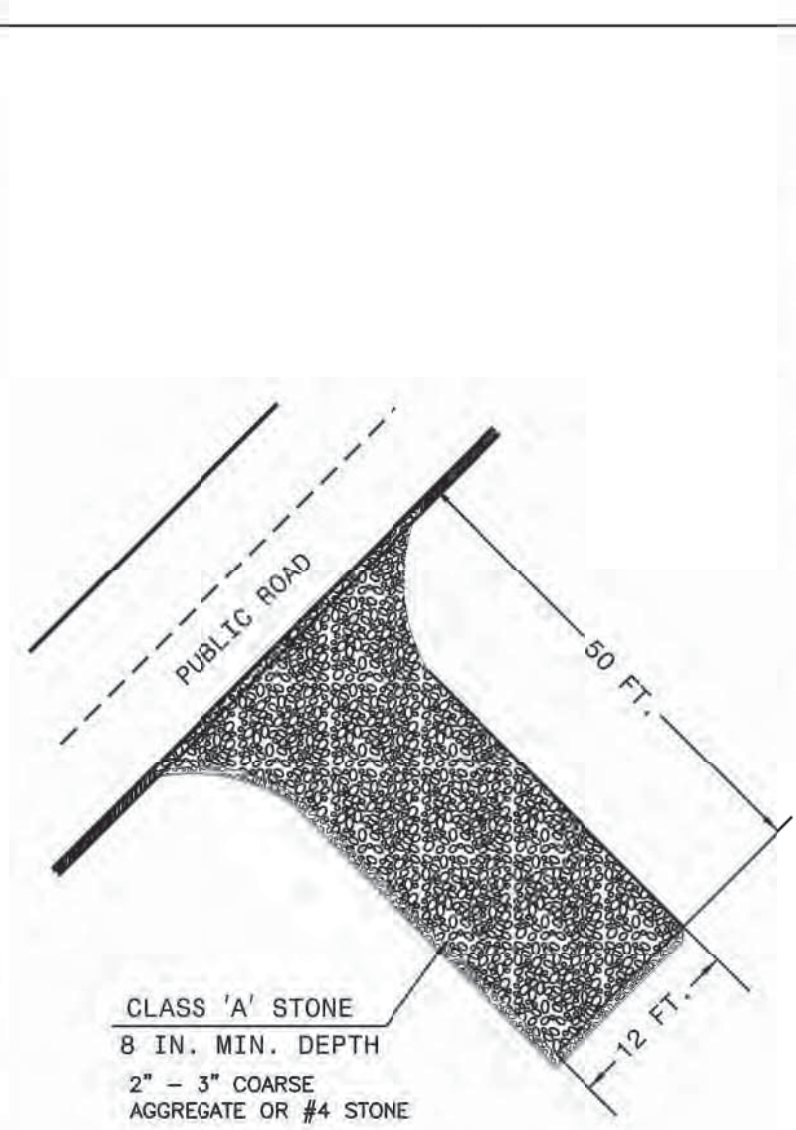
DATE: 2001  
 DRAWN BY: JSR/CMR  
 CHECKED BY: B.P., P.E.  
 SCALE: NOT TO SCALE

CITY OF WILMINGTON NORTH CAROLINA  
 CITY OF WILMINGTON ENGINEERING  
 PO BOX 1810  
 WILMINGTON, NC 28402  
 (910) 341-7807

SD 14-11



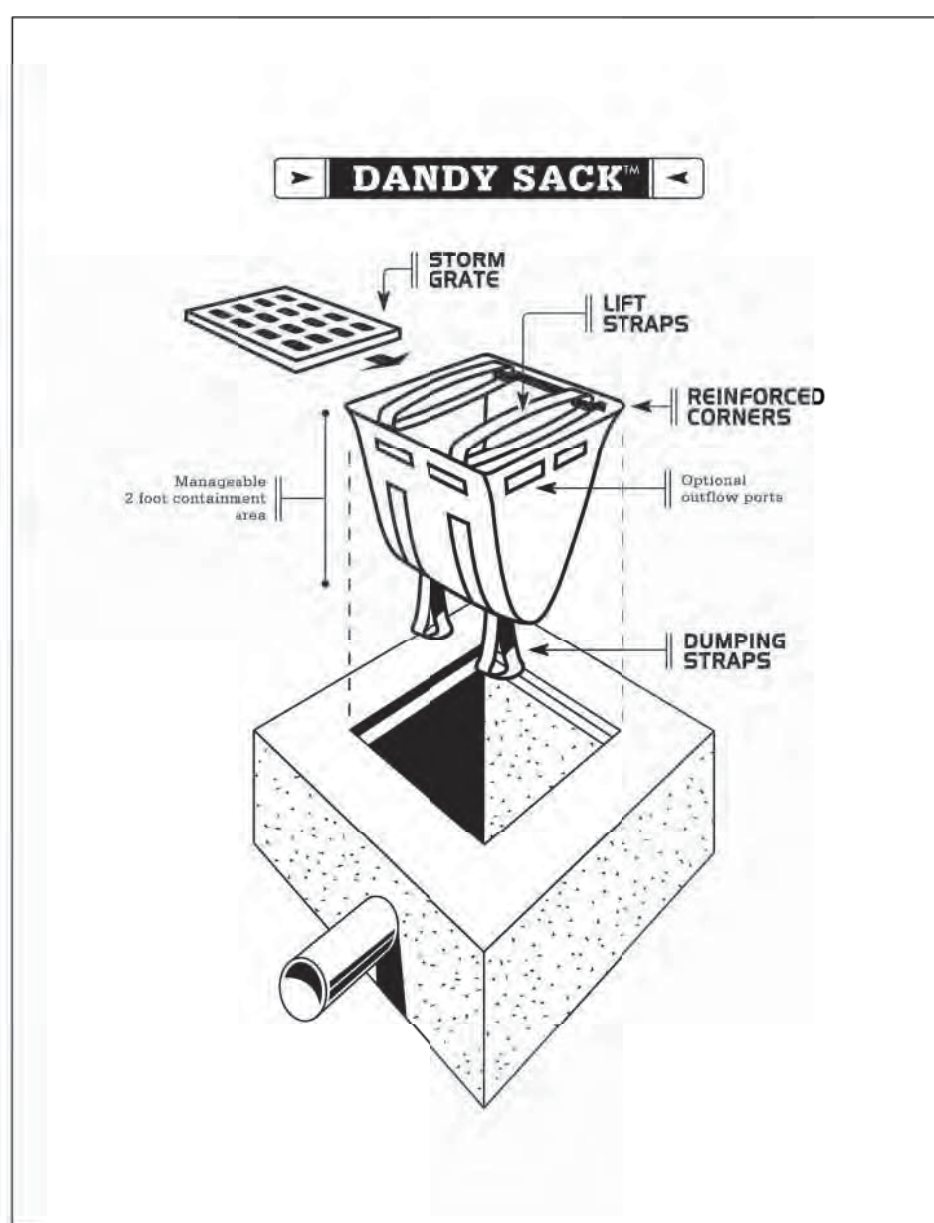
STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C.  
 ROADWAY STANDARD DRAWING FOR DROP INLET FRAME AND GRATES FOR USE WITH STD. DWG. S 840.14 AND 840.15  
 SHEET 1 OF 1  
 840.16



- NOTES
1. PROVIDE TURNING RADIUS SUFFICIENT TO ACCOMMODATE LARGE TRUCKS.
  2. LOCATE ENTRANCES TO PROVIDE FOR UTILIZATION BY ALL MAINTENANCE VEHICLES.
  3. MUST BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR DIRECT FLOW OF MUD ONTO STREETS. PERIODIC TOPDRESSING WITH STONE WILL BE NECESSARY.
  4. ANY MATERIAL TRACKED ONTO THE ROADWAY MUST BE CLEANED UP IMMEDIATELY.
  5. LOCATE GRAVEL CONSTRUCTION ENTRANCE AT ALL POINTS OF INGRESS AND EGRESS UNTIL SITE IS STABILIZED. PROVIDE FREQUENT CHECKS OF THE DEVICE AND TIMELY MAINTENANCE.
  6. NUMBER AND LOCATION OF CONSTRUCTION ENTRANCES TO BE DETERMINED BY THE ENGINEER.
  7. USE CLASS "A" STONE OR OTHER COARSE AGGREGATE APPROVED BY THE ENGINEER.
  8. INSTALL CONSTRUCTION ENTRANCES IN A WAY TO PREVENT VEHICLES FROM BYPASSING CONSTRUCTION ENTRANCE LEAVING PROJECT SITE.

NOTE: PLACE GEOTEXTILE FOR DRAINAGE BENEATH STONE

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C.  
 ROADWAY STANDARD DRAWING FOR GRAVEL CONSTRUCTION ENTRANCE  
 SHEET 1 OF 1  
 1607.01



CITY OF WILMINGTON NORTH CAROLINA  
 Public Services • Engineering Division  
 APPROVED STORMWATER MANAGEMENT PLAN  
 Date: \_\_\_\_\_ Permit # \_\_\_\_\_  
 Signed: \_\_\_\_\_

Approved Construction Plan  
 Date: 9/25/20  
 # 2020026  
 SWP #: 2020030  
 PO, ES, BM, MB, CW

No.	Revision	Date	By
1	CHANGED PROJECT NAME	8/13/20	MNH

Designer: MNH Scale: AS SHOWN  
 Drawn By: MNH Date: JULY, 2020  
 Checked By: MNH Job No.

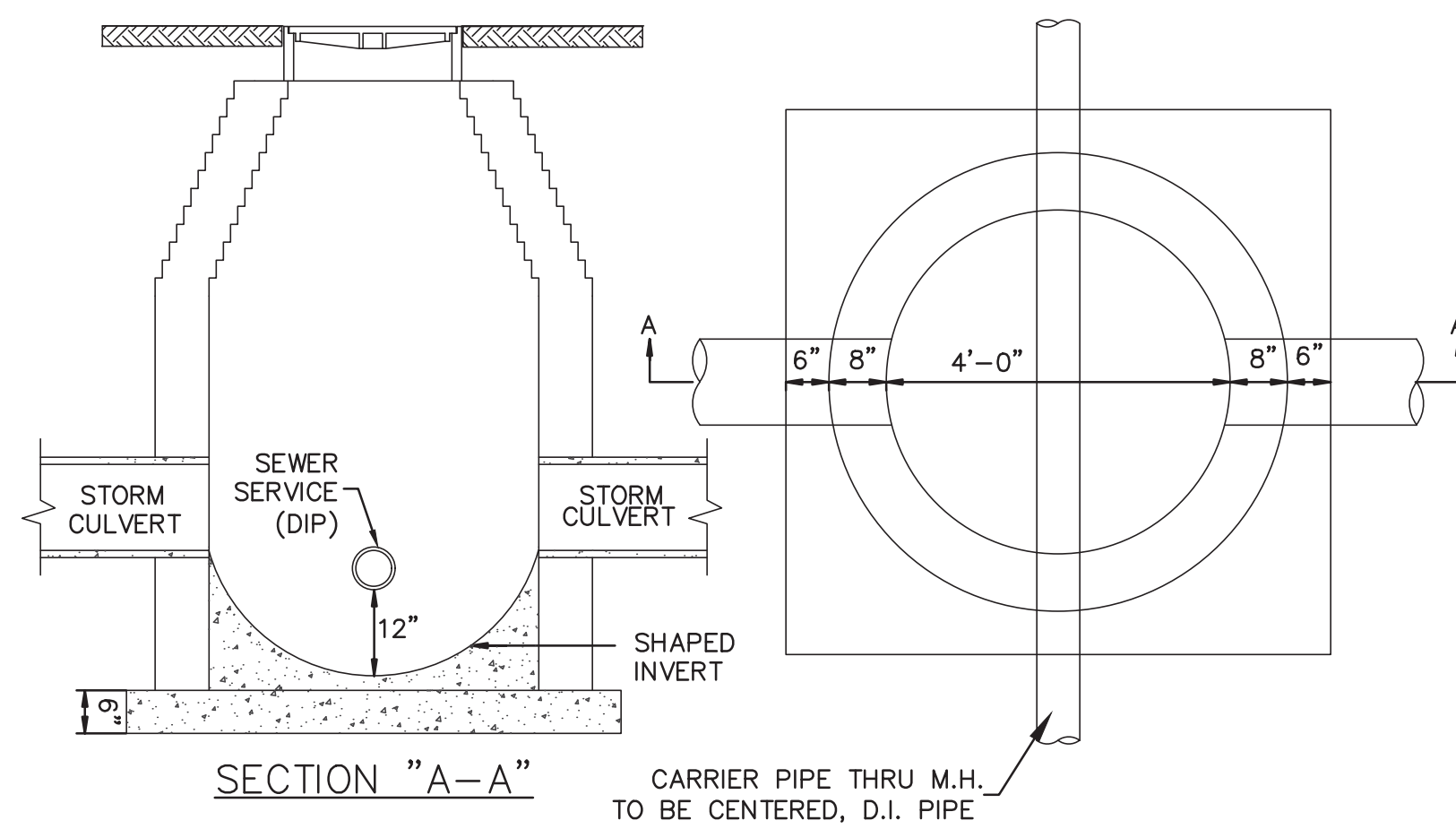
ENTERPRISE RENT-A-CAR MARKET STREET  
 WILMINGTON NORTH CAROLINA

H & S FAMILY HOLDINGS, LLC  
 1608 MARKET STREET  
 WILMINGTON, NC 28401

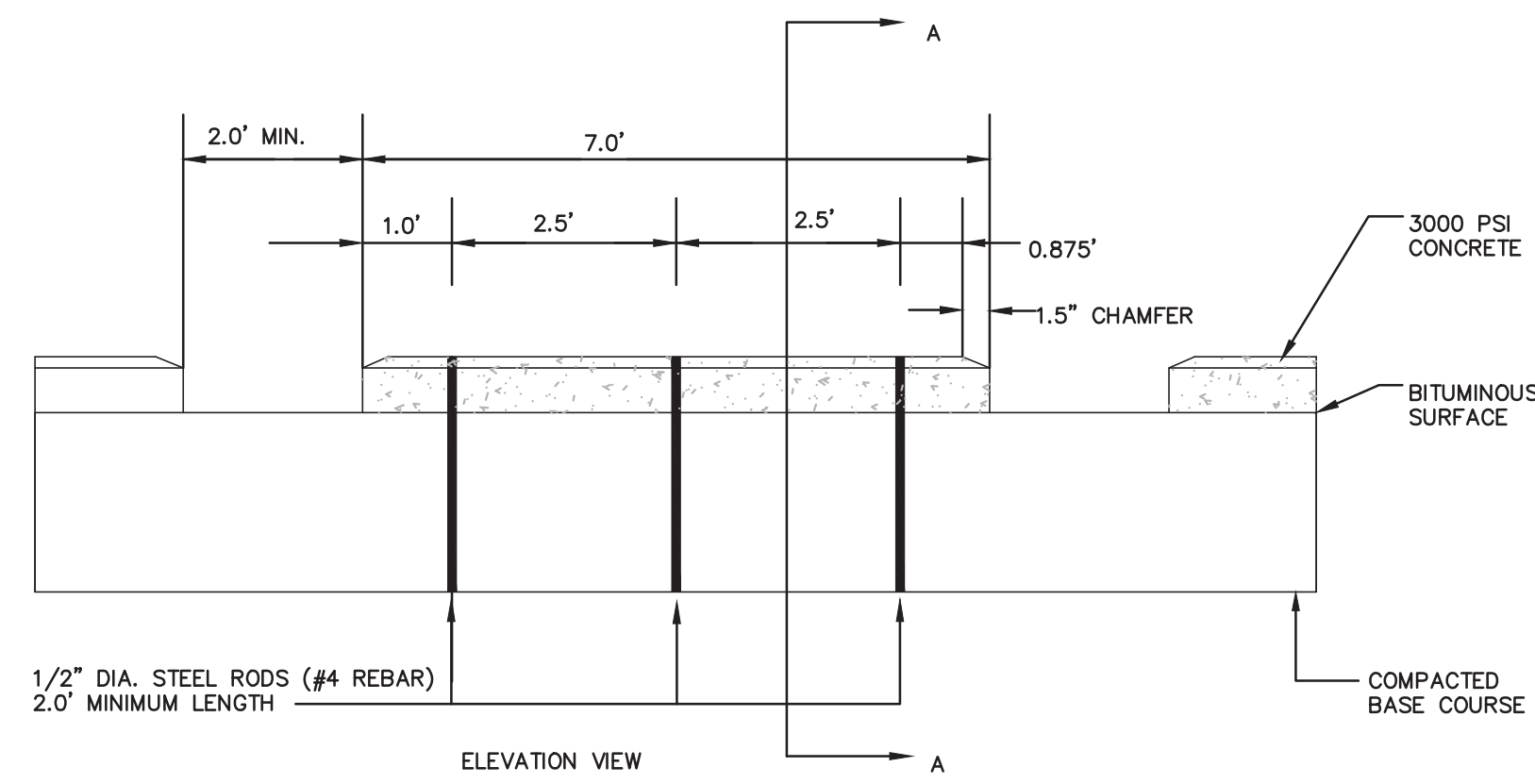
PORT CITY CONSULTING ENGINEERS, PLLC  
 6216 STONEBRIDGE ROAD  
 WILMINGTON, NC 28409  
 910-599-1744 LICENSE No. P-1032

MISCELLANEOUS DETAILS

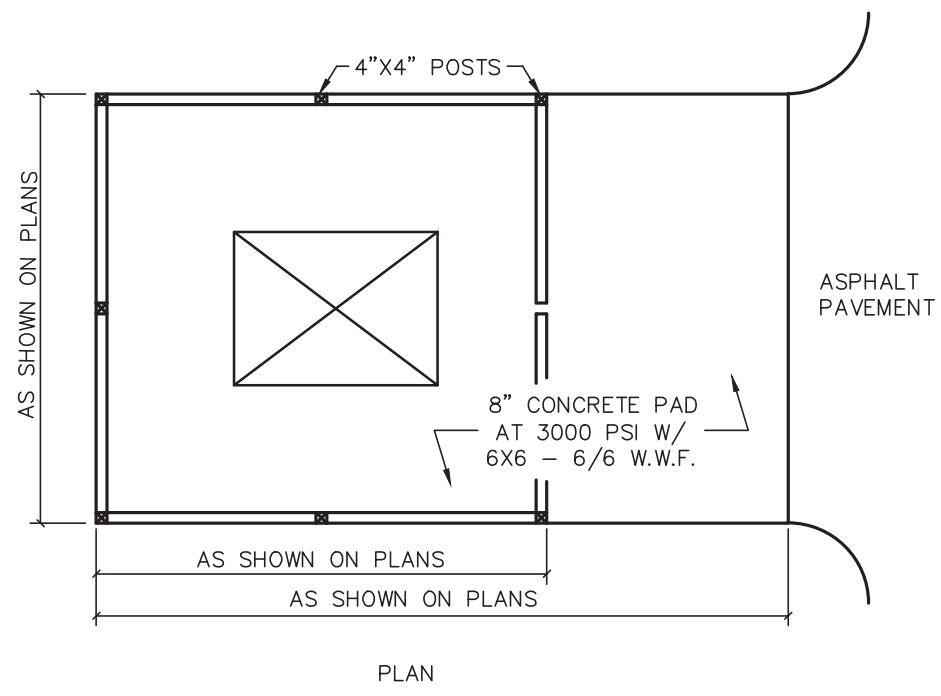
Sheet No.  
 C-7.1



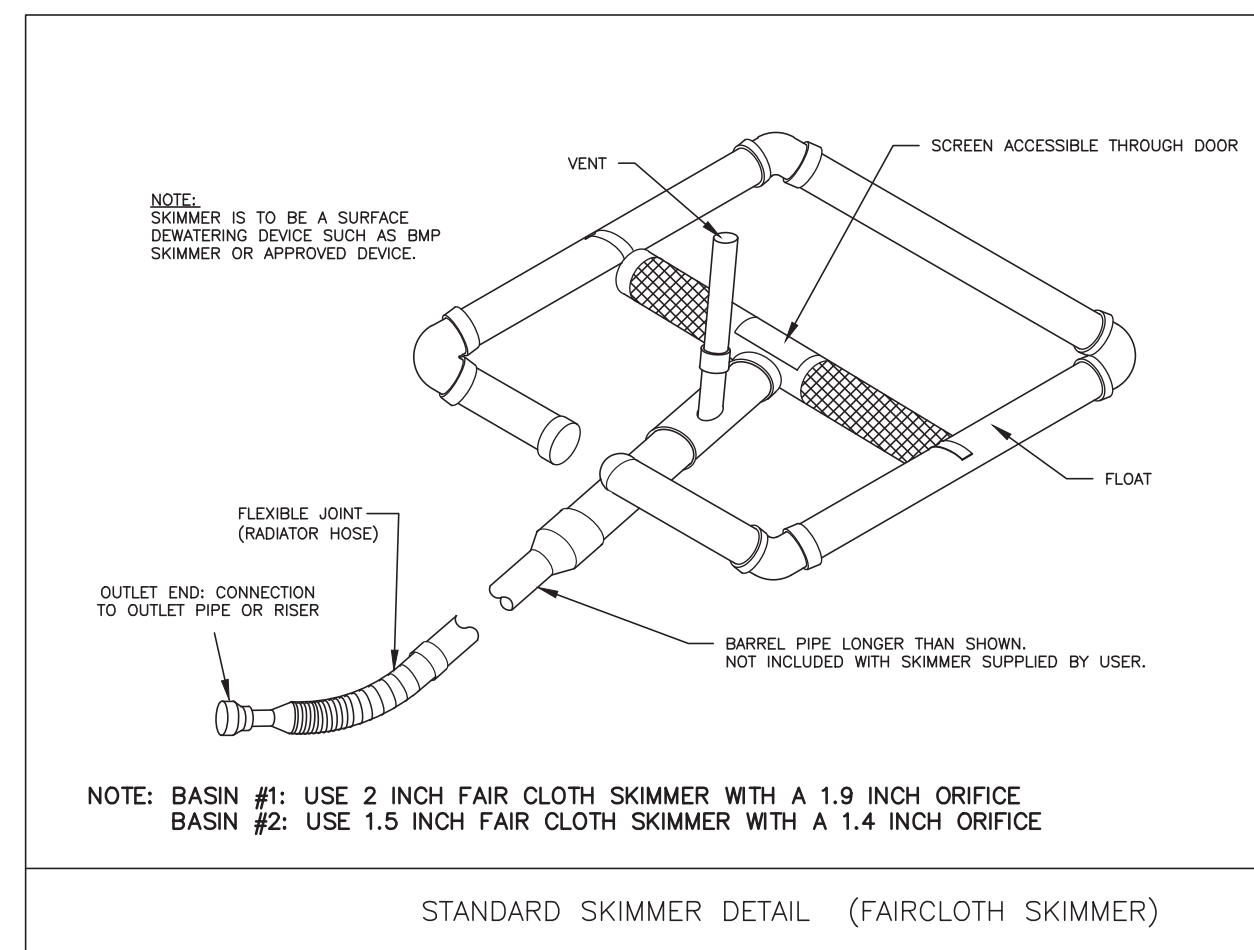
SECTION "A-A"  
INTERFERENCE STORM DRAIN MANHOLE  
NOT TO SCALE



ELEVATION VIEW  
WHEEL STOP DETAIL  
N.T.S.



DUMPSTER PAD & ENCLOSURE DETAIL  
N.T.S.



STANDARD SKIMMER DETAIL (FAIRCLOTH SKIMMER)

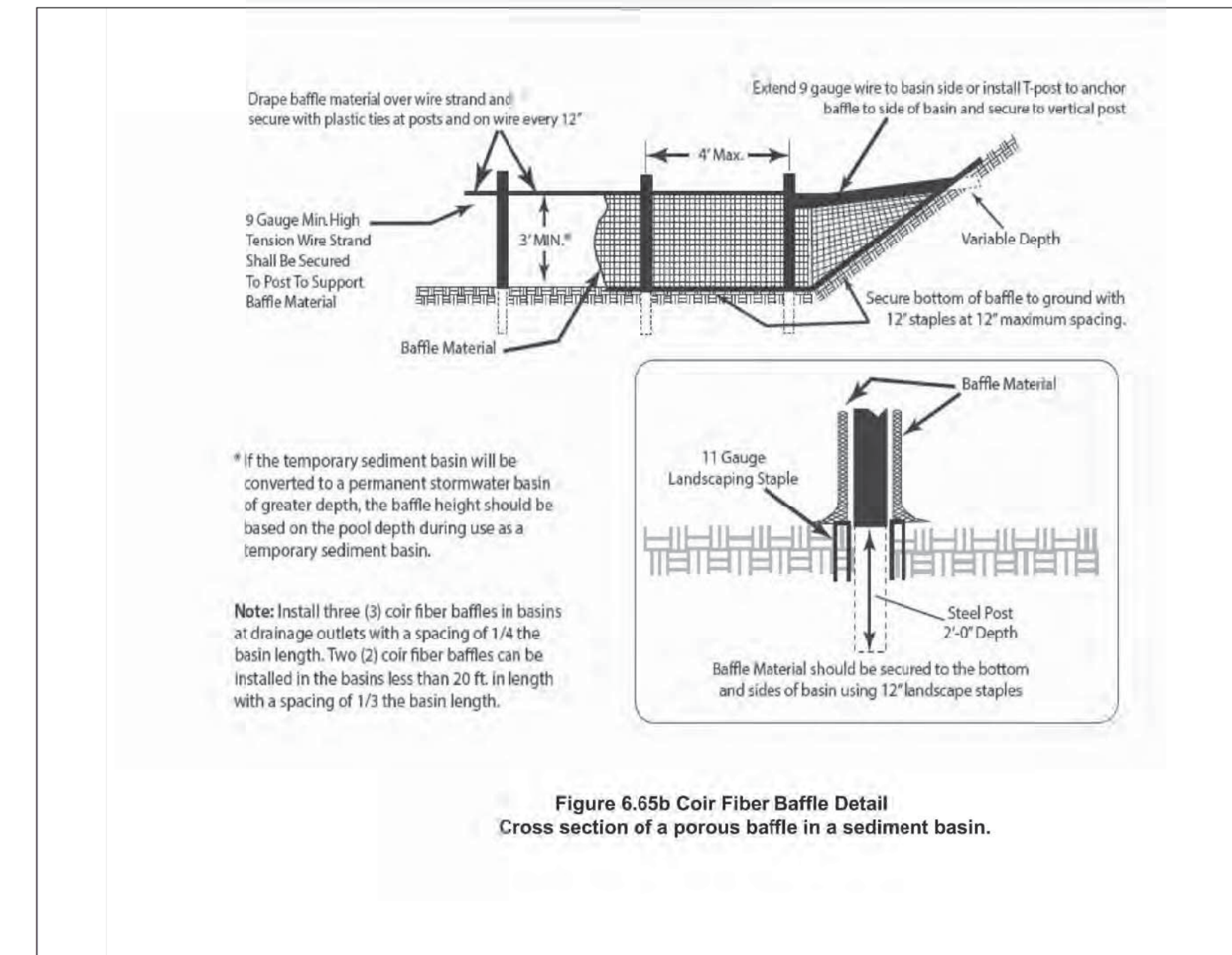
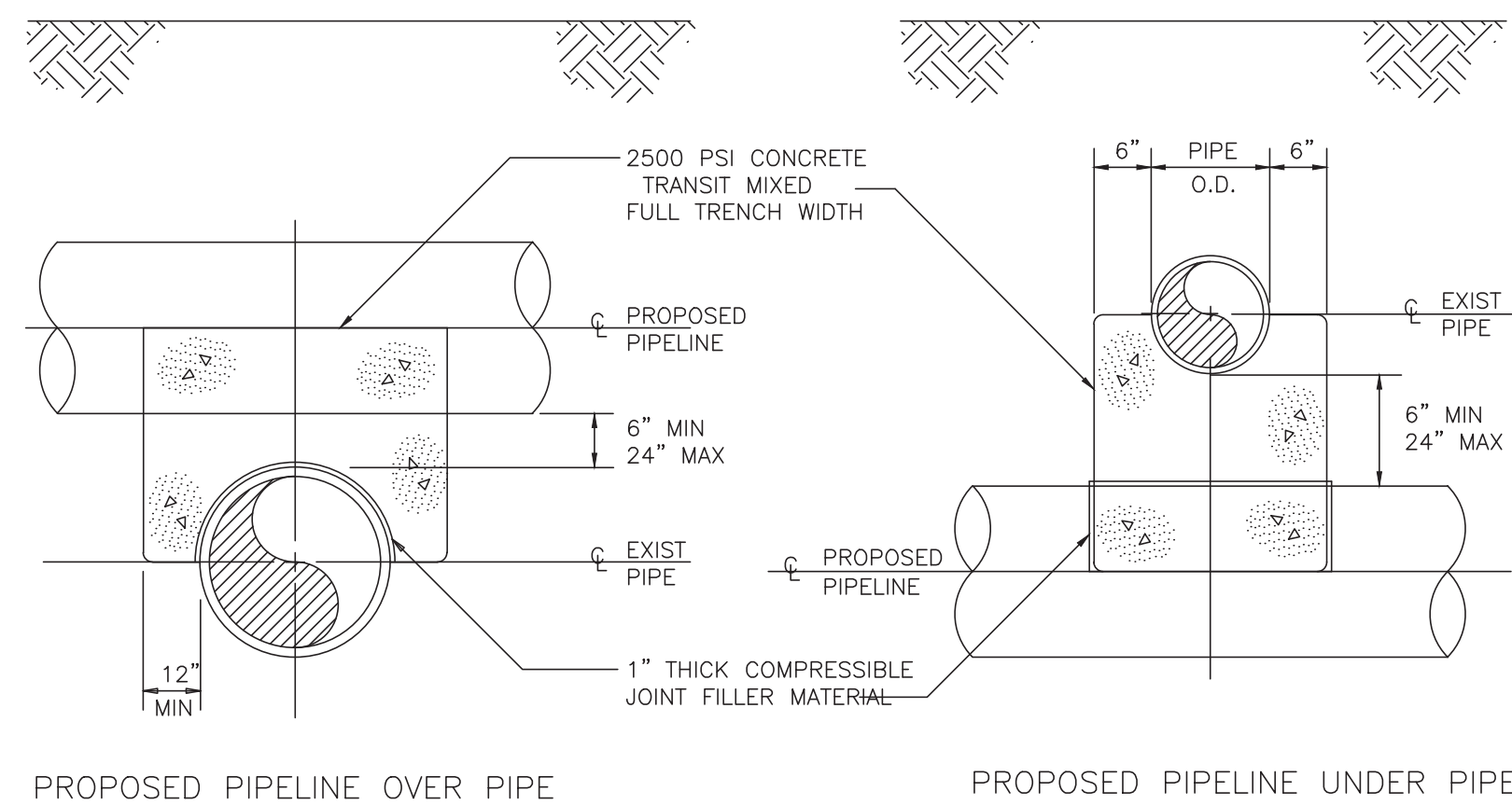
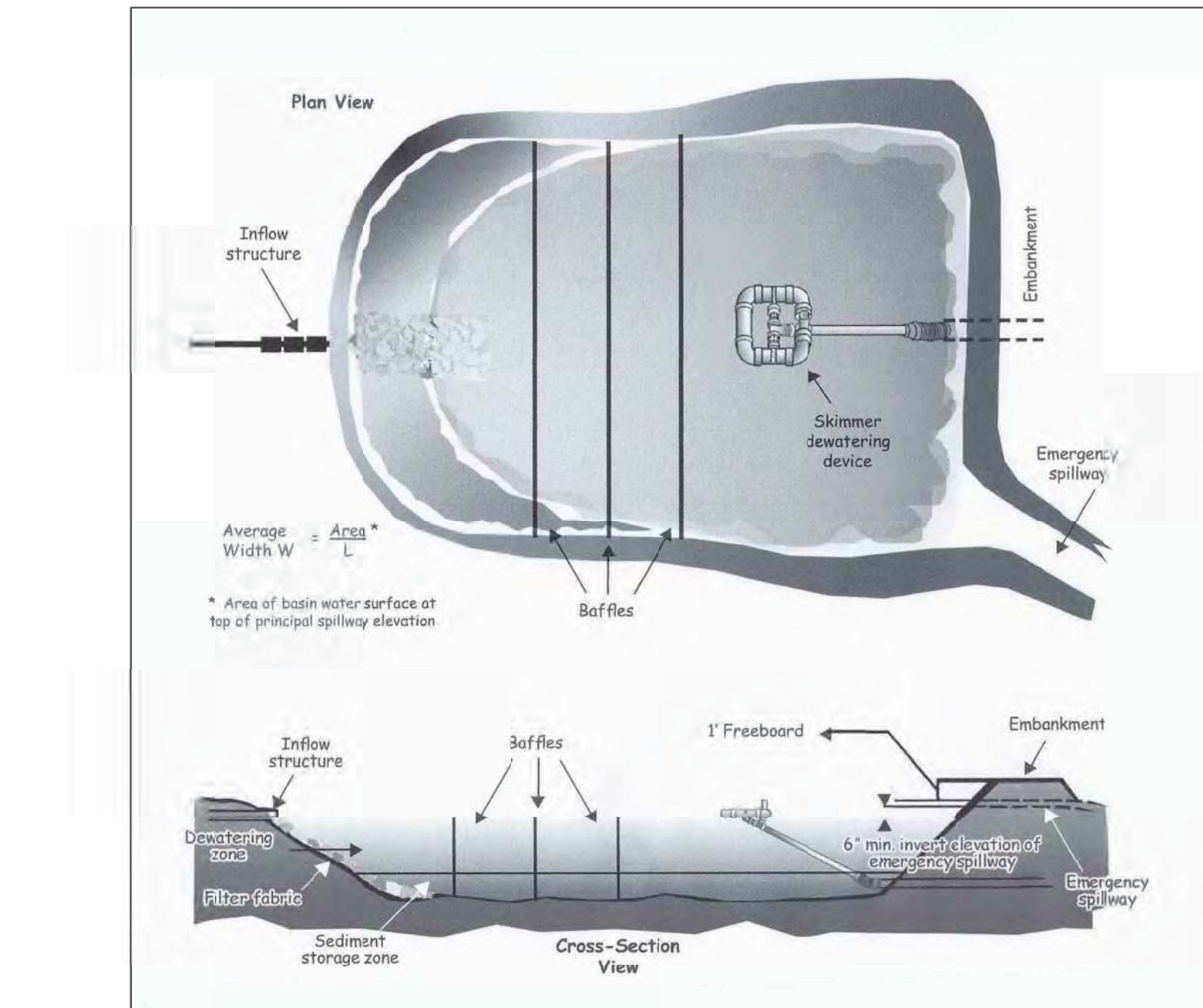
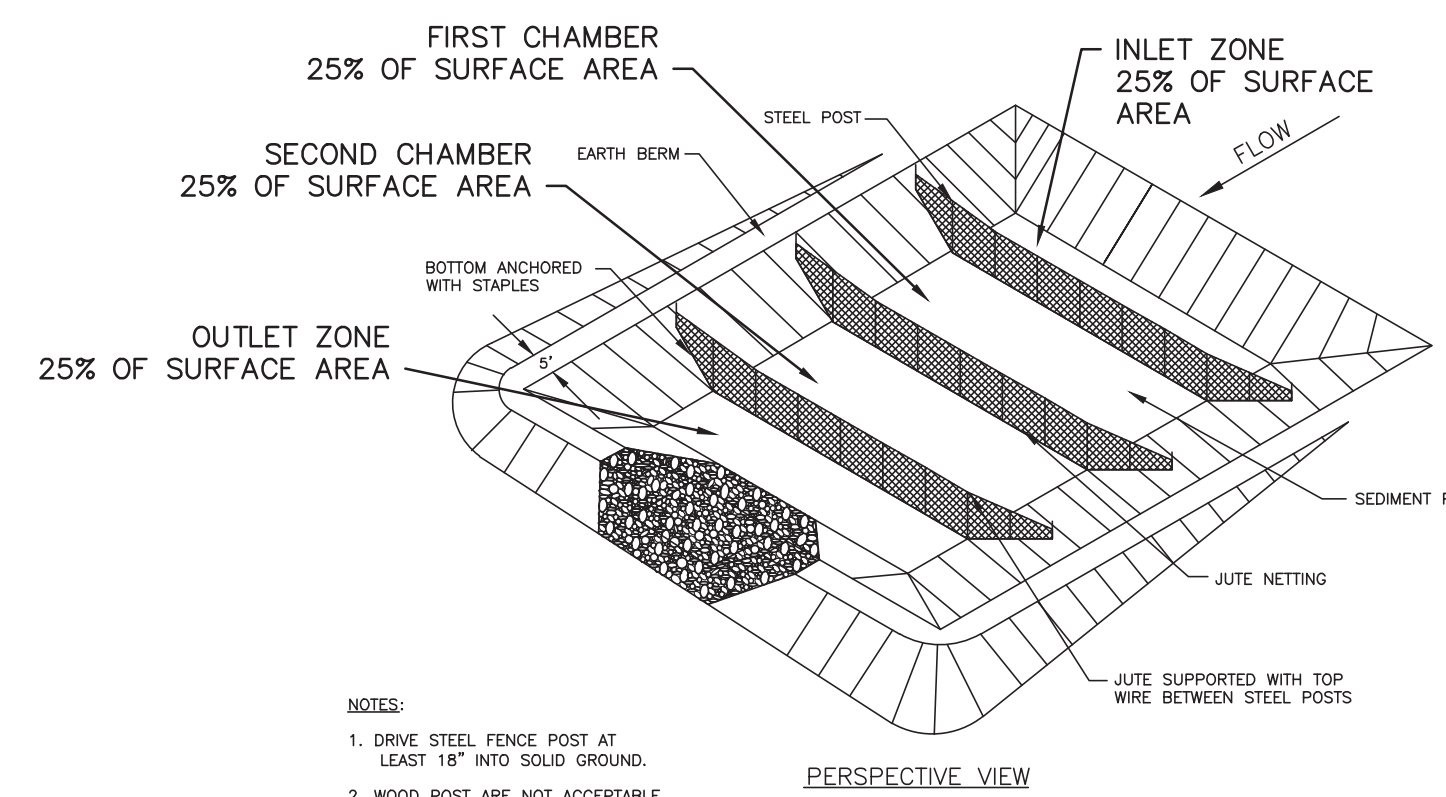


Figure 6.65b Coir Fiber Baffle Detail  
Cross section of a porous baffle in a sediment basin.



CONCRETE CRADLE PROTECTION FOR  
P-21 OVER P-11  
N.T.S.



NOTES:  
1. DRIVE STEEL FENCE POST AT LEAST 18" INTO SOLID GROUND.  
2. WOOD POST ARE NOT ACCEPTABLE.

STANDARD SEDIMENT BASIN WITH BAFFLES

GENERAL NOTES:  
USE 4000 PSI MINIMUM COMPRESSIVE STRENGTH CONCRETE.  
USE ASTM A615 GRADE 80 REINFORCING STEEL. USE ASTM A1064 WELDED WIRE FABRIC (WWF).  
FABRICATE, ASSEMBLE AND DESIGN PRECAST MANHOLE COMPONENTS ACCORDANCE WITH ASHTO M199.  
ASSEMBLE RISER AND GRADE RINGS WITH THE STEPS SPACED 12" FROM THE TOP TO THE BOTTOM OF THE MANHOLE.  
WHERE THE MANHOLE IS EXPOSED TO ROAD TRAFFIC, CONSTRUCT THE TOP OF THE MANHOLE FLUSH WITH THE GROUND AND A MINIMUM OF 3" ABOVE THE GROUND AT OTHER LOCATIONS.  
LIMIT DEPTH OF FILL TO 30'-0" FROM FINISH GRADE TO TOP OF BOTTOM SLAB.  
THE MIN. SLAB THICKNESS 'T' IS THE DIMENSION OF THE THINNEST PORTION OF THE TOP/BOTTOM SLAB.  
\* TOP MAT OF REINFORCEMENT MAY BE NEGLECTED IF TOP SLAB HAS A DISTINGUISHABLE TOP AND BOTTOM.

D	W	T	As
INTERNAL DIAMETER (FT.)	MIN. WALL THICKNESS (IN.)	MIN. TOP/BOTTOM SLAB THICKNESS (IN.)	MIN. CIRCUMFERENTIAL AREA OF STEEL PER VERTICAL FT. (SQ. IN.)
4	4	8	0.12
5	6	8	0.18
6	6	8	0.18

CONCENTRIC CONE SECTION  
ALTERNATE CONE SECTION  
FLAT TOP SLAB  
GRATED INLET OPTION  
MANHOLE OPTION  
TYPICAL MANHOLE SECTION

STATE OF NORTH CAROLINA  
DEPT. OF TRANSPORTATION  
DIVISION OF HIGHWAYS  
RALEIGH, N.C.

ROADWAY STANDARD DRAWING FOR  
PRECAST MANHOLE 4', 5' AND 6' DIAMETER  
12" THRU 48" PIPE

SHEET 1 OF 1  
840.52

No.	Revision	Date	By
1	ADDED SKIMMER DETAIL	8/7/20	MNH
2	CHANGED PROJECT NAME	8/13/20	MNH
3	REVISED PER COUNTY COMMENTS	9/8/20	MNH

Designer	Scale
MNH	AS SHOWN
Drawn By	Date
MNH	JULY, 2020
Checked By	Job No.
MNH	

ENTERPRISE RENT-A-CAR MARKET STREET  
WILMINGTON  
NORTH CAROLINA

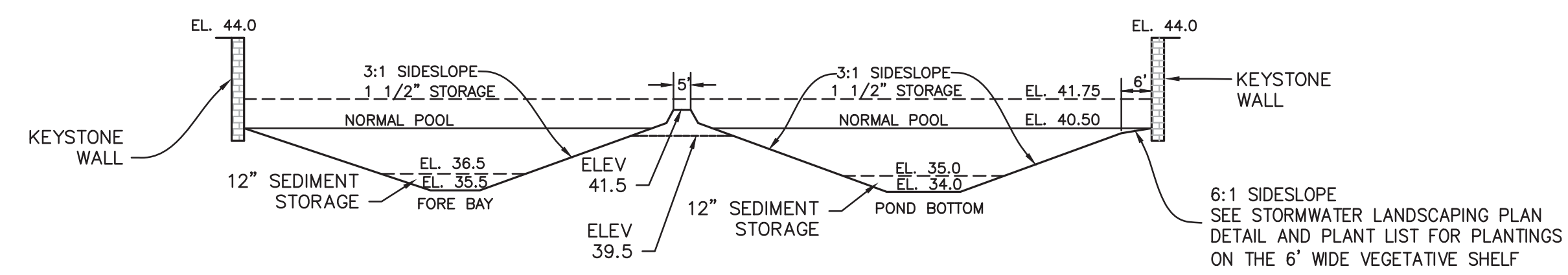
H & S FAMILY HOLDINGS, LLC  
1608 MARKET STREET  
WILMINGTON, NC 28401

PORT CITY CONSULTING  
ENGINEERS, PLLC  
6216 STONEBRIDGE ROAD  
WILMINGTON, NC 28409  
910-599-1744 LICENSE No. P-1032

MISCELLANEOUS DETAILS

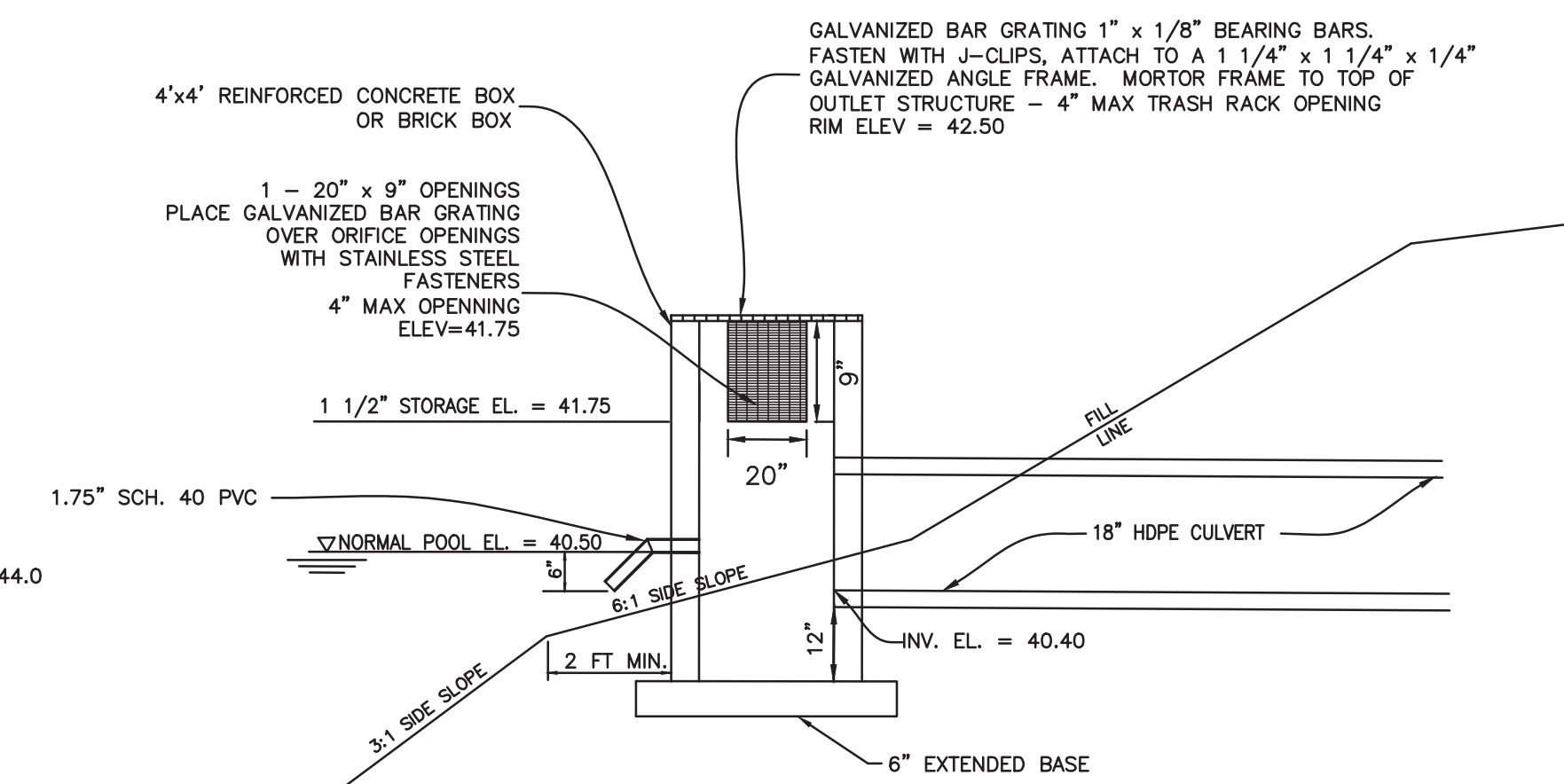
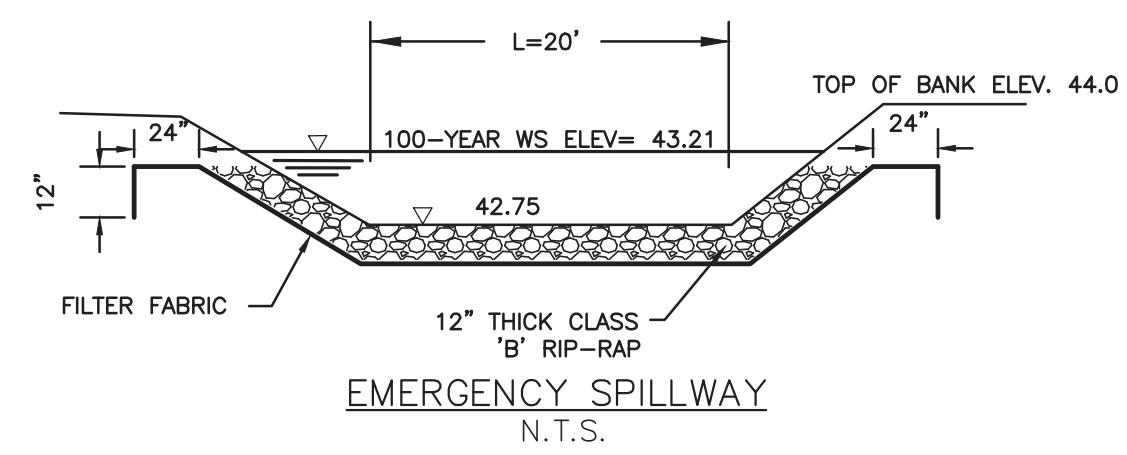
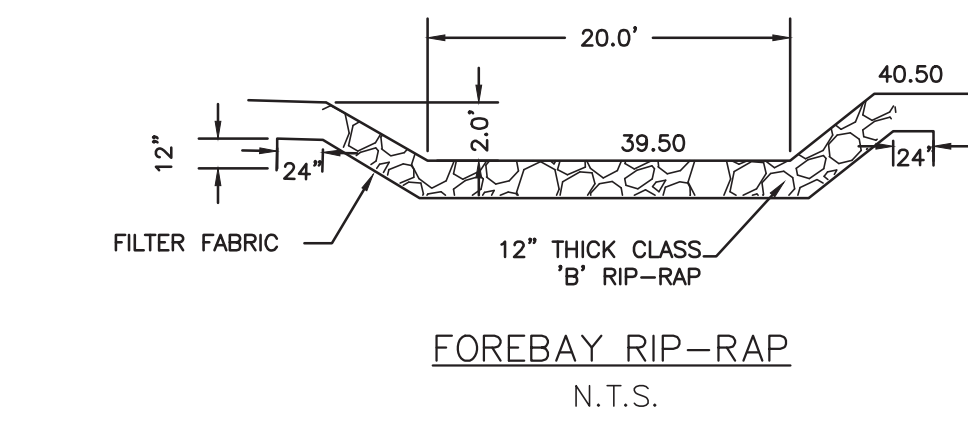
Sheet No.  
C-7.2

Approved Construction Plan  
Date: 9/25/20  
# 2020026  
SWP #: 2020030  
PO, ES, BM, MB, CW



NORMAL POOL ELEVATION	SHELF BOTTOM ELEVATION	POND DEPTH (FT)	VOLUME SHELF (CF)	POND BOTTOM SHELF AREA (SF)	SURFACE AREA PROVIDED (SF)	SURFACE AREA REQUIRED (SF)	PERIMETER PERMANENT POOL (LF)	AVERAGE POND DEPTH (FT)
40.5	39.5	5.5	927	3,854	5,485	5,003	309	3.5

POND CROSS-SECTION  
N.T.S.

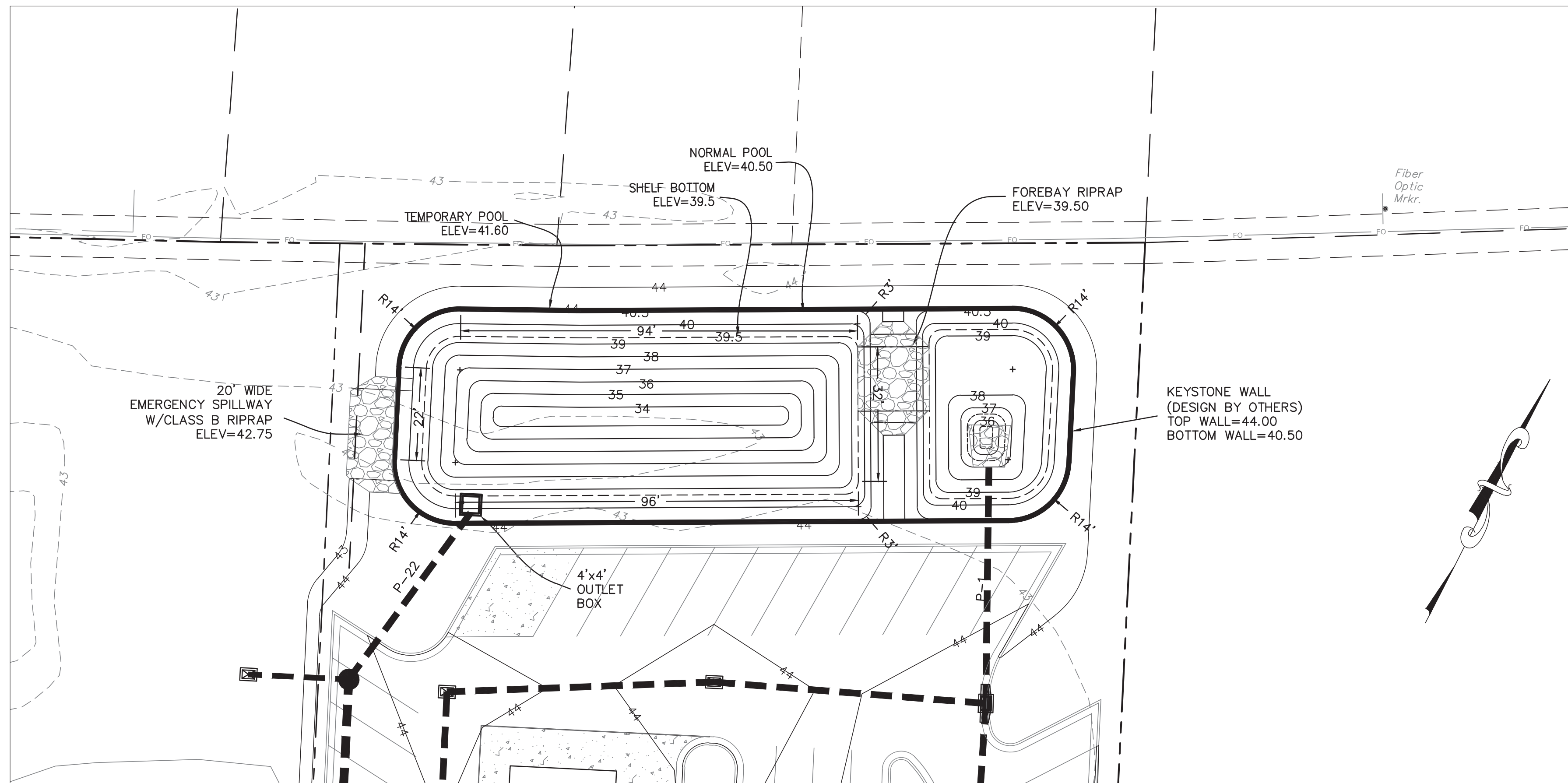


NOTES:

- DESIGN ELEVATIONS FOR WET DETENTION BASIN ARE TO AN ELEVATION OF 35.0 IN THE MAIN POND AND 36.5 IN THE FOREBAY WITH SEDIMENT STORAGE DOWN TO 34.0 IN THE MAIN POND AND 35.5 IN THE FOREBAY.
- ALL IMPERVIOUS SITE AREA TO BE DRAINED TO PROPOSED STORM SEWER SYSTEM AND DISCHARGED TO THE WET DETENTION POND.
- POND WILL BE PUMPED DOWN BY MECHANICAL MEANS IN CASE OF EMERGENCY.
- PRIOR TO USE AS A WET DETENTION BASIN, SEDIMENT BASIN WILL BE MUCKED OUT.
- ALL SLOPES ABOVE & BELOW PERMANENT POOL TO BE 3:1 MAX.

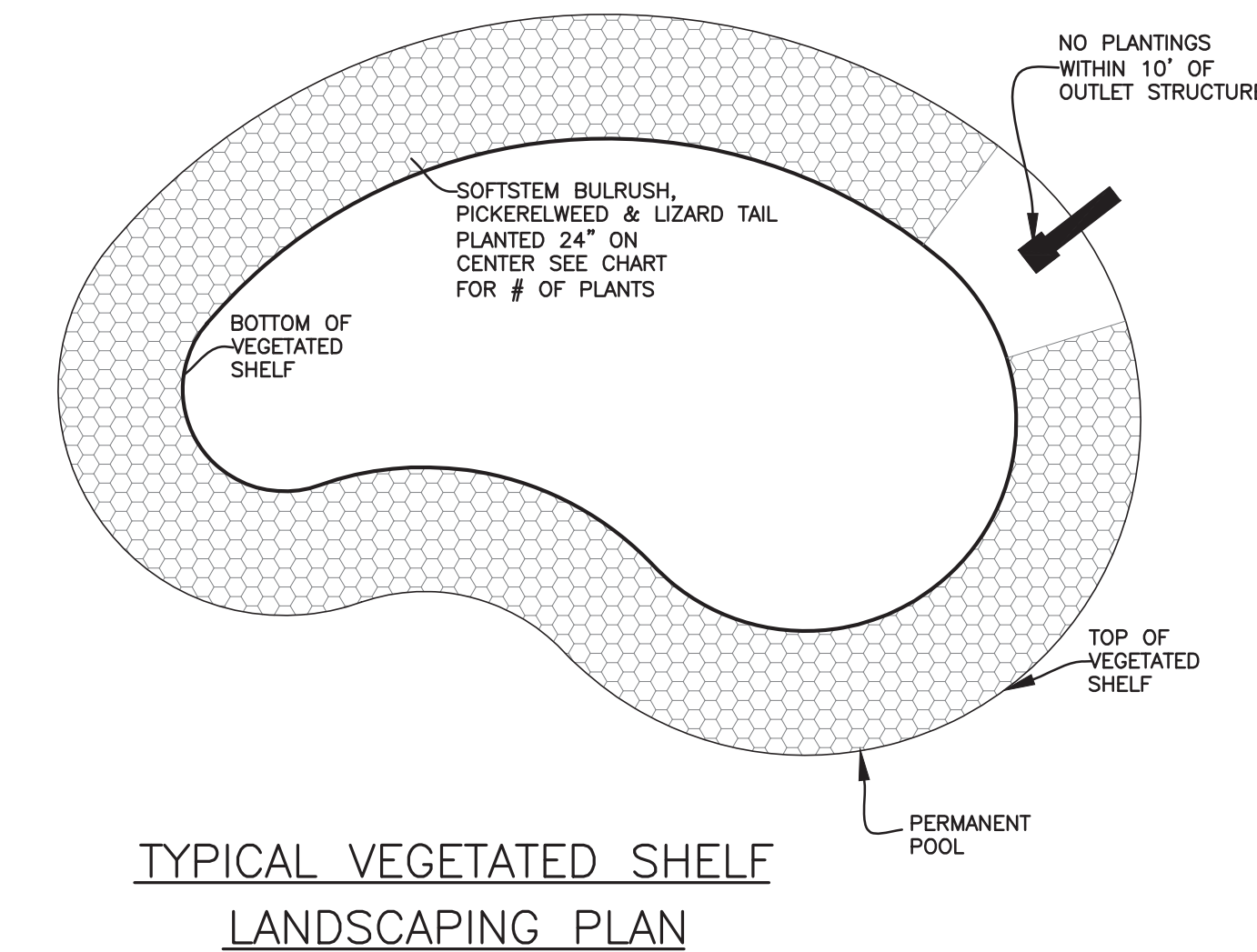
NOTES:

- DO NOT PLANT TREES WITHIN 10 FEET OF THE INLET OR OUTLET PIPES, SPILLWAYS OR FLOW SPREADERS. TREE SPECIES WITH WATER-SEEKING ROOTS SUCH AS WEEPING WILLOWS AND POPLARS, SHOULD BE AVOIDED WITHIN 50 FEET OF PIPES OR MANMADE STRUCTURES. EVERGREEN TREES WHICH PRODUCE RELATIVELY LITTLE LEAF-FALL ARE PREFERRED IN AREAS DRAINING TO DETENTION DEVICES. TREES SHOULD BE SET BACK SO THAT BRANCHES DO NOT EXTEND OVER THE PERMANENT POOL.



**WILMINGTON**  
NORTH CAROLINA  
Public Services • Engineering Division  
APPROVED STORMWATER MANAGEMENT PLAN  
Date: \_\_\_\_\_ Permit # \_\_\_\_\_  
Signed: \_\_\_\_\_

**Approved Construction Plan**  
Date: 9/25/20  
# 2020026  
SWP #: 2020030  
PO, ES, BM, MB, CW



VEGETATIVE SHELF = 1,465 S.F.  
@ 1 PLANT PER 4 SF (24" O.C.) = 366 PLANTS

PLANT TYPE	QTY	BOTANICAL NAME	COMMON NAME	ROOT	CALIPER	HEIGHT	NOTES
HERBACEOUS	122	Schoenoplectus tabernaemontani	Softstem Bulrush	CONT.	4" Pot		24" O.C.
	122	Pontederia cordata	Pickereelweed	CONT.	4" Pot		24" O.C.
	122	Saururus cernuus	Lizard Tail	CONT.	4" Pot		24" O.C.

NOTES:

- NO PLANTINGS WITHIN 10' OF OUTLET STRUCTURE.
- BECAUSE MOST STORMWATER BASINS ARE EXCAVATED TO DEEP SUB-SOILS, THEY OFTEN LACK THE NUTRIENTS AND ORGANIC MATTER NEEDED TO SUPPORT VIGOROUS GROWTH OF PLANTS. ALL LANDSCAPE MATERIAL, INCLUDING GRASS, SHOULD BE PLANTED IN GOOD TOPSOIL. NATIVE UNDERLYING SOILS MAY BE SUITABLE FOR PLANTING IF AMENDED WITH 4 INCHES OF WELL-AGED COMPOST TILLED INTO THE SUBGRADE. COMPOST SHOULD MEET SPECIFICATIONS FOR GRADE A COMPOST QUALITY.
- A MINIMUM ONE-YEAR WARRANTY PERIOD STIPULATING REQUIREMENTS FOR PLANT SURVIVAL/REPLACEMENT.

No.	Revision	Date	By
1	CHANGED PROJECT NAME	8/13/20	MNH

Designer	MNH	Scale	AS SHOWN
Drawn By	MNH	Date	JULY, 2020
Checked By	MNH	Job No.	

**ENTERPRISE RENT-A-CAR MARKET STREET**  
WILMINGTON NORTH CAROLINA

**H & S FAMILY HOLDINGS, LLC**  
1608 MARKET STREET  
WILMINGTON, NC 28401

PORT CITY CONSULTING  
ENGINEERS, PLLC  
6216 STONEBRIDGE ROAD  
WILMINGTON, NC 28409  
910-599-1744 LICENSE No. P-1032

**POND DETAILS**

Sheet No.  
**C-7.3**

**GROUND STABILIZATION AND MATERIALS HANDLING PRACTICES FOR COMPLIANCE WITH THE NCG01 CONSTRUCTION GENERAL PERMIT**

Implementing the details and specifications on this plan sheet will result in the construction activity being considered compliant with the Ground Stabilization and Materials Handling sections of the NCG01 Construction General Permit (Sections E and F, respectively). The permittee shall comply with the Erosion and Sediment Control plan approved by the delegated authority having jurisdiction. All details and specifications shown on this sheet may not apply depending on site conditions and the delegated authority having jurisdiction.

**Temporary and Permanent Groundcover\***

STABILIZATION TIMEFRAMES (Effective Aug. 3, 2011)		
SITE AREA DESCRIPTION	STABILIZATION	TIMEFRAME EXCEPTIONS
Perimeter dikes, swales, ditches, slopes	7 days	None
High Quality Water (HOW) Zones	7 days	None
Slopes steeper than 3:1	7 days	If slopes are 10' or less in length and are not steeper than 2:1, 14 days are allowed.
Slopes 3:1 or flatter	14 days	7 days for slopes greater than 50' in length.
All other areas with slopes flatter than 4:1	14 days	None, except for perimeters and HOW Zones.

\*-For Falls Lake watershed, in disturbed areas where grading activities are incomplete, provide temporary groundcover no later than seven (7) days for slopes steeper than 3:1; ten (10) days for slopes equal to or flatter than 3:1; fourteen (14) days for areas with no slope.

**GROUND STABILIZATION SPECIFICATION**

Stabilize the ground sufficiently so that rain will not dislodge the soil. Use one of the techniques in the table below:

Temporary Stabilization	Permanent Stabilization
<ul style="list-style-type: none"> <li>Temporary grass seed covered with straw or other mulches and tackifiers</li> <li>Hydroseeding</li> <li>Rolled erosion control products with or without temporary grass seed</li> <li>Appropriately applied straw or other mulch</li> <li>Plastic sheeting</li> </ul>	<ul style="list-style-type: none"> <li>Permanent grass seed covered with straw or other mulches and tackifiers</li> <li>Geotextile fabrics such as permanent soil reinforcement matting</li> <li>Hydroseeding</li> <li>Shrubs or other permanent plantings covered with mulch</li> <li>Uniform and evenly distributed ground cover sufficient to restrain erosion</li> <li>Structural methods such as concrete, asphalt or retaining walls</li> </ul>

**POLYACRYLAMIDES (PAMS) AND FLOCCULANTS**

- Select flocculants that are appropriate for the soils being exposed during construction, selecting from the *NC DWR List of Approved PAMS/Flocculants*.
- Apply flocculants at or before the inlets to Erosion and Sediment Control Measures.
- Apply flocculants at the concentrations specified in the *NC DWR List of Approved PAMS/Flocculants* and in accordance with the manufacturer's instructions.
- Provide ponding area for containment of treated Stormwater before discharging offsite.
- Store flocculants in leak-proof containers that are kept under storm-resistant cover or surrounded by secondary containment structures.



**EQUIPMENT AND VEHICLE MAINTENANCE**

- Maintain vehicles and equipment to prevent discharge of fluids.
- Provide drip pans under any stored equipment.
- Identify leaks and repair as soon as feasible, or remove leaking equipment from the project.
- Collect all spent fluids, store in separate containers and properly dispose as hazardous waste (recycle when possible).
- Remove leaking vehicles and construction equipment from service until the problem has been corrected.
- Bring used fuels, lubricants, coolants, hydraulic fluids and other petroleum products to a recycling or disposal center that handles these materials.

**LITTER, BUILDING MATERIAL AND LAND CLEARING WASTE**

- Never bury or burn waste. Place litter and debris in approved waste containers.
- Provide a sufficient number of waste containers on site to manage the quantity of waste produced.
- Locate waste containers at least 50 feet away from storm drain inlets and surface waters unless no other alternatives are reasonably available.
- Locate waste containers on areas that do not receive substantial amounts of runoff from upland areas and does not drain directly to a storm drain, stream or wetland.
- Cover waste containers at the end of each workday and before storm events. Repair or replace damaged waste containers.
- Anchor all lightweight items in waste containers during times of high winds.
- Empty waste containers as needed to prevent overflow.
- Dispose waste off-site at an approved disposal facility.

**PAINT AND OTHER LIQUID WASTE**

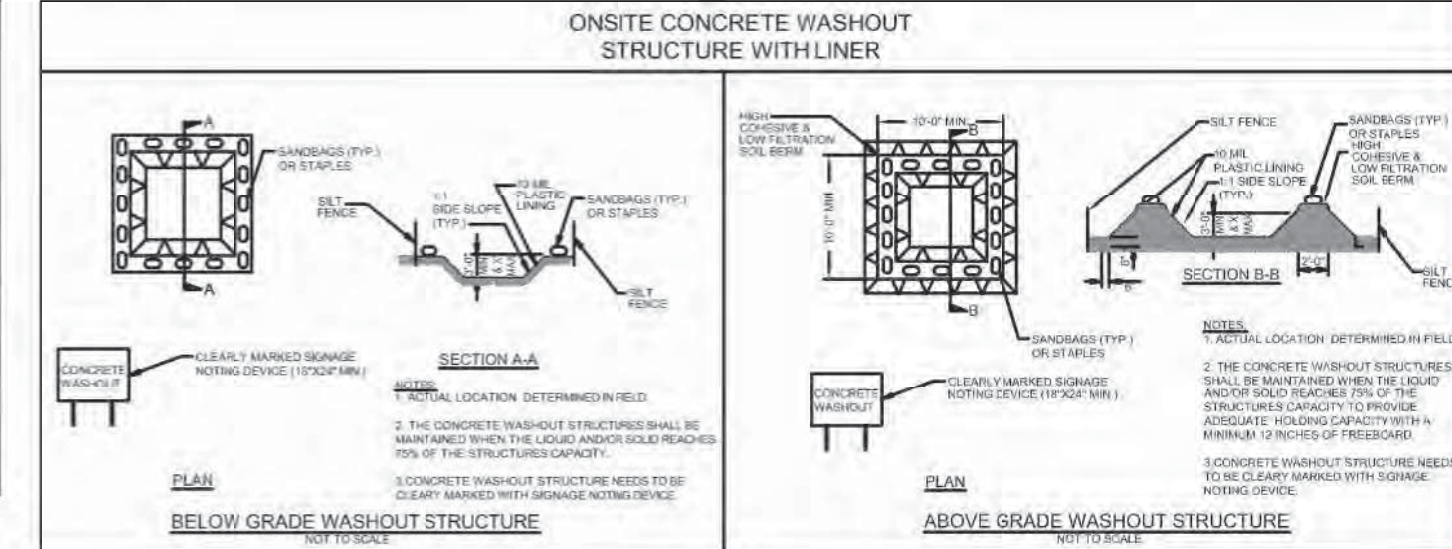
- Do not dump paint and other liquid waste into storm drains, streams or wetlands.
- Locate paint washouts at least 50 feet away from storm drain inlets and surface waters unless no other alternatives are reasonably available.
- Contain liquid wastes in a controlled area.
- Containment must be labeled, sized and placed appropriately for the needs of site.
- Prevent the discharge of soaps, solvents, detergents and other liquid wastes from construction sites.

**PORTABLE TOILETS**

- Install portable toilets on level ground, at least 50 feet away from storm drains, streams or wetlands unless there is no alternative reasonably available. If 50 foot offset is not attainable, provide relocation of portable toilet behind silt fence or place on a gravel pad and surround with sand bags.
- Provide staking or anchoring of portable toilets during periods of high winds or in high foot traffic areas.
- Monitor portable toilets for leaking and properly dispose of any leaked material. Utilize a licensed sanitary waste hauler to remove leaking portable toilets and replace with properly operating unit.

**EARTHEN STOCKPILE MANAGEMENT**

- Show stockpile locations on plans. Locate earthen-material stockpile areas at least 50 feet away from storm drain inlets, sediment basins, perimeter sediment controls and surface waters unless it can be shown no other alternatives are reasonably available.
- Protect stockpile with silt fence installed along toe of slope with a minimum offset of five feet from the toe of stockpile.
- Provide stable stone access point when feasible.
- Stabilize stockpile within the timeframes provided on this sheet and in accordance with the approved plan and any additional requirements. Soil stabilization is defined as vegetative, physical or chemical coverage techniques that will restrain accelerated erosion on disturbed soils for temporary or permanent control needs.



**CONCRETE WASHOUTS**

- Do not discharge concrete or cement slurry from the site.
- Dispose of, or recycle settled, hardened concrete residue in accordance with local and state solid waste regulations and at an approved facility.
- Manage washout from mortar mixers in accordance with the above item and in addition place the mixer and associated materials on impervious barrier and within lot perimeter silt fence.
- Install temporary concrete washouts per local requirements, where applicable. If an alternate method or product is to be used, contact your approval authority for review and approval. If local standard details are not available, use one of the two types of temporary concrete washouts provided on this detail.
- Do not use concrete washouts for dewatering or storing defective curb or sidewalk sections. Stormwater accumulated within the washout may not be pumped into or discharged to the storm drain system or receiving surface waters. Liquid waste must be pumped out and removed from project.
- Locate washouts at least 50 feet from storm drain inlets and surface waters unless it can be shown that no other alternatives are reasonably available. At a minimum, install protection of storm drain inlet(s) closest to the washout which could receive spills or overflow.
- Locate washouts in an easily accessible area, on level ground and install a stone entrance pad in front of the washout. Additional controls may be required by the approving authority.
- Install at least one sign directing concrete trucks to the washout within the project limits. Post signage on the washout itself to identify this location.
- Remove leavings from the washout when at approximately 75% capacity to limit overflow events. Replace the tarp, sand bags or other temporary structural components when no longer functional. When utilizing alternative or proprietary products, follow manufacturer's instructions.
- At the completion of the concrete work, remove remaining leavings and dispose of in an approved disposal facility. Fill pit, if applicable, and stabilize any disturbance caused by removal of washout.

**HERBICIDES, PESTICIDES AND RODENTICIDES**

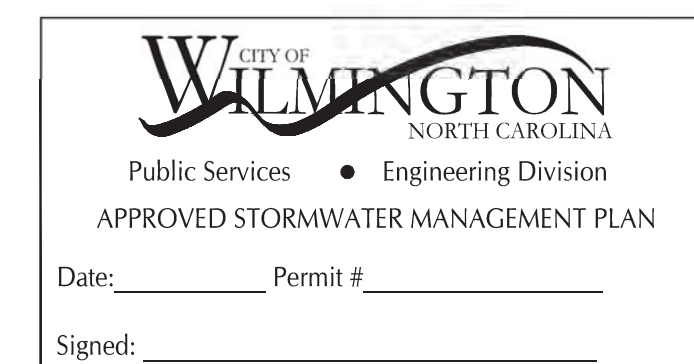
- Store and apply herbicides, pesticides and rodenticides in accordance with label restrictions.
- Store herbicides, pesticides and rodenticides in their original containers with the label, which lists directions for use, ingredients and first aid steps in case of accidental poisoning.
- Do not store herbicides, pesticides and rodenticides in areas where flooding is possible or where they may spill or leak into wells, stormwater drains, ground water or surface water. If a spill occurs, clean area immediately.
- Do not stockpile these materials onsite.

**HAZARDOUS AND TOXIC WASTE**

- Create designated hazardous waste collection areas on-site.
- Place hazardous waste containers under cover or in secondary containment.
- Do not store hazardous chemicals, drums or bagged materials directly on the ground.

**NCG01 GROUND STABILIZATION AND MATERIALS HANDLING**

EFFECTIVE: 03/01/19



**Approved Construction Plan**  
 Date: 9/25/20  
 # 2020026  
 SWP #: 2020030  
 PO, ES, BM, MB, CW

No.	Revision	Date	By
1	CHANGED PROJECT NAME	8/13/20	MNH

Designer	MNH	Scale	AS SHOWN
Drawn By	MNH	Date	JULY, 2020
Checked By	MNH	Job No.	

**ENTERPRISE RENT-A-CAR MARKET STREET**  
 WILMINGTON NORTH CAROLINA

**H & S FAMILY HOLDINGS, LLC**  
 1608 MARKET STREET  
 WILMINGTON, NC 28401

PORT CITY CONSULTING  
 ENGINEERS, PLLC  
 6216 STONEBRIDGE ROAD  
 WILMINGTON, NC 28409  
 910-599-1744 LICENSE No. P-1032

**NCG01 GROUND STABILIZATION & MATERIALS HANDLING**

**PART III  
SELF-INSPECTION, RECORDKEEPING AND REPORTING**

**SECTION A: SELF-INSPECTION**

Self-inspections are required during normal business hours in accordance with the table below. When adverse weather or site conditions would cause the safety of the inspection personnel to be in jeopardy, the inspection may be delayed until the next business day on which it is safe to perform the inspection. In addition, when a storm event of greater than 1.0 inch occurs outside of normal business hours, the self-inspection shall be performed upon the commencement of the next business day. Any time when inspections were delayed shall be noted in the Inspection Record.

Inspect	Frequency (during normal business hours)	Inspection records must include [40 CFR 122.41]:
(1) Rain gauge maintained in good working order	Daily	Daily rainfall amounts. If no daily rain gauge observations are made during weekend or holiday periods, and no individual-day rainfall information is available, record the cumulative rain measurement for those un-attended days (and this will determine if a site inspection is needed). Days on which no rainfall occurred shall be recorded as "zero." The permittee may use another rain-monitoring device approved by the Division.
(2) E&SC Measures	At least once per 7 calendar days and within 24 hours of a rain event > 1.0 inch in 24 hours	1. Identification of the measures inspected, 2. Date and time of the inspection, 3. Name of the person performing the inspection, 4. Indication of whether the measures were operating properly, 5. Description of maintenance needs for the measure, 6. Corrective actions taken, and 7. Date of actions taken.
(3) Stormwater discharge outfalls (SDOs)	At least once per 7 calendar days and within 24 hours of a rain event > 1.0 inch in 24 hours	1. Identification of the discharge outfalls inspected, 2. Date and time of the inspection, 3. Name of the person performing the inspection, 4. Evidence of indicators of stormwater pollution such as oil sheen, floating or suspended solids or discoloration, 5. Indication of visible sediment leaving the site, 6. Actions taken to correct/prevent sedimentation, and 7. Date of actions taken.
(4) Perimeter of site	At least once per 7 calendar days and within 24 hours of a rain event > 1.0 inch in 24 hours	If visible sedimentation is found outside site limits, then a record of the following shall be made: 1. Actions taken to clean up or stabilize the sediment that has left the site limits, 2. Date of actions taken, and 3. An explanation as to the actions taken to control future releases.
(5) Streams or wetlands onsite or offsite (where accessible)	At least once per 7 calendar days and within 24 hours of a rain event > 1.0 inch in 24 hours	If the stream or wetland has increased visible sedimentation or a stream has visible increased turbidity from the construction activity, then a record of the following shall be made: 1. Evidence and actions taken to reduce sediment contributions, and 2. Records of the required reports to the appropriate Division Regional Office per Part III, Section C, Item (2)(a) of this permit of this permit.

NOTE: The rain inspection resets the required 7 calendar day inspection requirement.



**PART III  
SELF-INSPECTION, RECORDKEEPING AND REPORTING**

**SECTION B: RECORDKEEPING**

**1. E&SC Plan Documentation**

The approved E&SC plan as well as any approved deviation shall be kept on the site. The approved E&SC plan must be kept up-to-date throughout the coverage under this permit. The following items pertaining to the E&SC plan shall be documented in the manner described:

Item to Document	Documentation Requirements
(a) Each E&SC Measure has been installed and does not significantly deviate from the locations, dimensions and relative elevations shown on the approved E&SC Plan.	Initial and date each E&SC Measure on a copy of the approved E&SC Plan or complete, date and sign an inspection report that lists each E&SC Measure shown on the approved E&SC Plan. This documentation is required upon the initial installation of the E&SC Measures or if the E&SC Measures are modified after initial installation.
(b) A phase of grading has been completed.	Initial and date a copy of the approved E&SC Plan or complete, date and sign an inspection report to indicate completion of the construction phase.
(c) Ground cover is located and installed in accordance with the approved E&SC Plan.	Initial and date a copy of the approved E&SC Plan or complete, date and sign an inspection report to indicate compliance with approved ground cover specifications.
(d) The maintenance and repair requirements for all E&SC Measures have been performed.	Complete, date and sign an inspection report.
(e) Corrective actions have been taken to E&SC Measures.	Initial and date a copy of the approved E&SC Plan or complete, date and sign an inspection report to indicate the completion of the corrective action.

**2. Additional Documentation**

In addition to the E&SC Plan documents above, the following items shall be kept on the site and available for agency inspectors at all times during normal business hours, unless the Division provides a site-specific exemption based on unique site conditions that make this requirement not practical:

- (a) This general permit as well as the certificate of coverage, after it is received.
- (b) Records of inspections made during the previous 30 days. The permittee shall record the required observations on the Inspection Record Form provided by the Division or a similar inspection form that includes all the required elements. Use of electronically-available records in lieu of the required paper copies will be allowed if shown to provide equal access and utility as the hard-copy records.
- (c) All data used to complete the Notice of Intent and older inspection records shall be maintained for a period of three years after project completion and made available upon request. [40 CFR 122.41]

**PART III  
SELF-INSPECTION, RECORDKEEPING AND REPORTING**

**SECTION C: REPORTING**

**1. Occurrences that must be reported**

Permittees shall report the following occurrences:

- (a) Visible sediment deposition in a stream or wetland.
- (b) Oil spills if:
  - They are 25 gallons or more,
  - They are less than 25 gallons but cannot be cleaned up within 24 hours,
  - They cause sheen on surface waters (regardless of volume), or
  - They are within 100 feet of surface waters (regardless of volume).
- (a) Releases of hazardous substances in excess of reportable quantities under Section 311 of the Clean Water Act (Ref: 40 CFR 110.3 and 40 CFR 117.3) or Section 102 of CERCLA (Ref: 40 CFR 302.4) or G.S. 143-215.85.
- (b) Anticipated bypasses and unanticipated bypasses.
- (c) Noncompliance with the conditions of this permit that may endanger health or the environment.

**2. Reporting Timeframes and Other Requirements**

After a permittee becomes aware of an occurrence that must be reported, he shall contact the appropriate Division regional office within the timeframes and in accordance with the other requirements listed below. Occurrences outside normal business hours may also be reported to the Division's Emergency Response personnel at (800) 662-7956, (800) 858-0368 or (919) 733-3300.

Occurrence	Reporting Timeframes (After Discovery) and Other Requirements
(a) Visible sediment deposition in a stream or wetland	<ul style="list-style-type: none"> <li>• <b>Within 24 hours</b>, an oral or electronic notification.</li> <li>• <b>Within 7 calendar days</b>, a report that contains a description of the sediment and actions taken to address the cause of the deposition. Division staff may waive the requirement for a written report on a case-by-case basis.</li> <li>• If the stream is named on the NC.303(d) list as impaired for sediment-related causes, the permittee may be required to perform additional monitoring, inspections or apply more stringent practices if staff determine that additional requirements are needed to assure compliance with the federal or state impaired-waters conditions.</li> </ul>
(b) Oil spills and release of hazardous substances per Item 1(b)-(c) above	<ul style="list-style-type: none"> <li>• <b>Within 24 hours</b>, an oral or electronic notification. The notification shall include information about the date, time, nature, volume and location of the spill or release.</li> </ul>
(c) Anticipated bypasses [40 CFR 122.41(m)(3)]	<ul style="list-style-type: none"> <li>• <b>A report at least ten days before the date of the bypass, if possible.</b> The report shall include an evaluation of the anticipated quality and effect of the bypass.</li> </ul>
(d) Unanticipated bypasses [40 CFR 122.41(m)(3)]	<ul style="list-style-type: none"> <li>• <b>Within 24 hours</b>, an oral or electronic notification.</li> <li>• <b>Within 7 calendar days</b>, a report that includes an evaluation of the quality and effect of the bypass.</li> </ul>
(e) Noncompliance with the conditions of this permit that may endanger health or the environment [40 CFR 122.41(l)(7)]	<ul style="list-style-type: none"> <li>• <b>Within 24 hours</b>, an oral or electronic notification.</li> <li>• <b>Within 7 calendar days</b>, a report that contains a description of the noncompliance, and its causes; the period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time noncompliance is expected to continue; and steps taken or planned to reduce, eliminate, and prevent recurrence of the noncompliance. [40 CFR 122.41(l)(6)].</li> <li>• Division staff may waive the requirement for a written report on a case-by-case basis.</li> </ul>

**NCG01 SELF-INSPECTION, RECORDKEEPING AND REPORTING**

EFFECTIVE: 03/01/19



**Approved Construction Plan**  
Date: 9/25/20  
# 2020026  
SWP #: 2020030  
PO, ES, BM, MB, CW

No.	Revision	Date	By
1	CHANGED PROJECT NAME	8/13/20	MNH

Designer	MNH	Scale	AS SHOWN
Drawn By	MNH	Date	JULY, 2020
Checked By	MNH	Job No.	

**ENTERPRISE RENT-A-CAR MARKET STREET**  
WILMINGTON NORTH CAROLINA

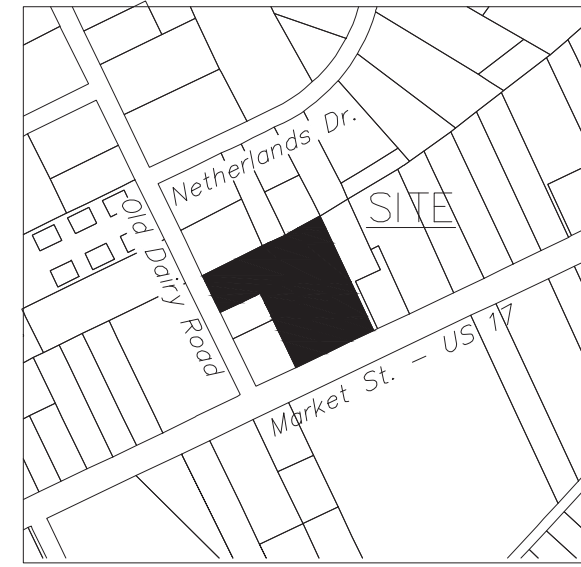
H & S FAMILY HOLDINGS, LLC  
1608 MARKET STREET  
WILMINGTON, NC 28401

PORT CITY CONSULTING  
ENGINEERS, PLLC  
6216 STONEBRIDGE ROAD  
WILMINGTON, NC 28409  
910-599-1744 LICENSE No. P-1032

**NCG01 - SELF INSPECTION,  
RECORDKEEPING AND REPORTING**

Sheet No.  
**C-7.5**





SCALE: N.T.S.

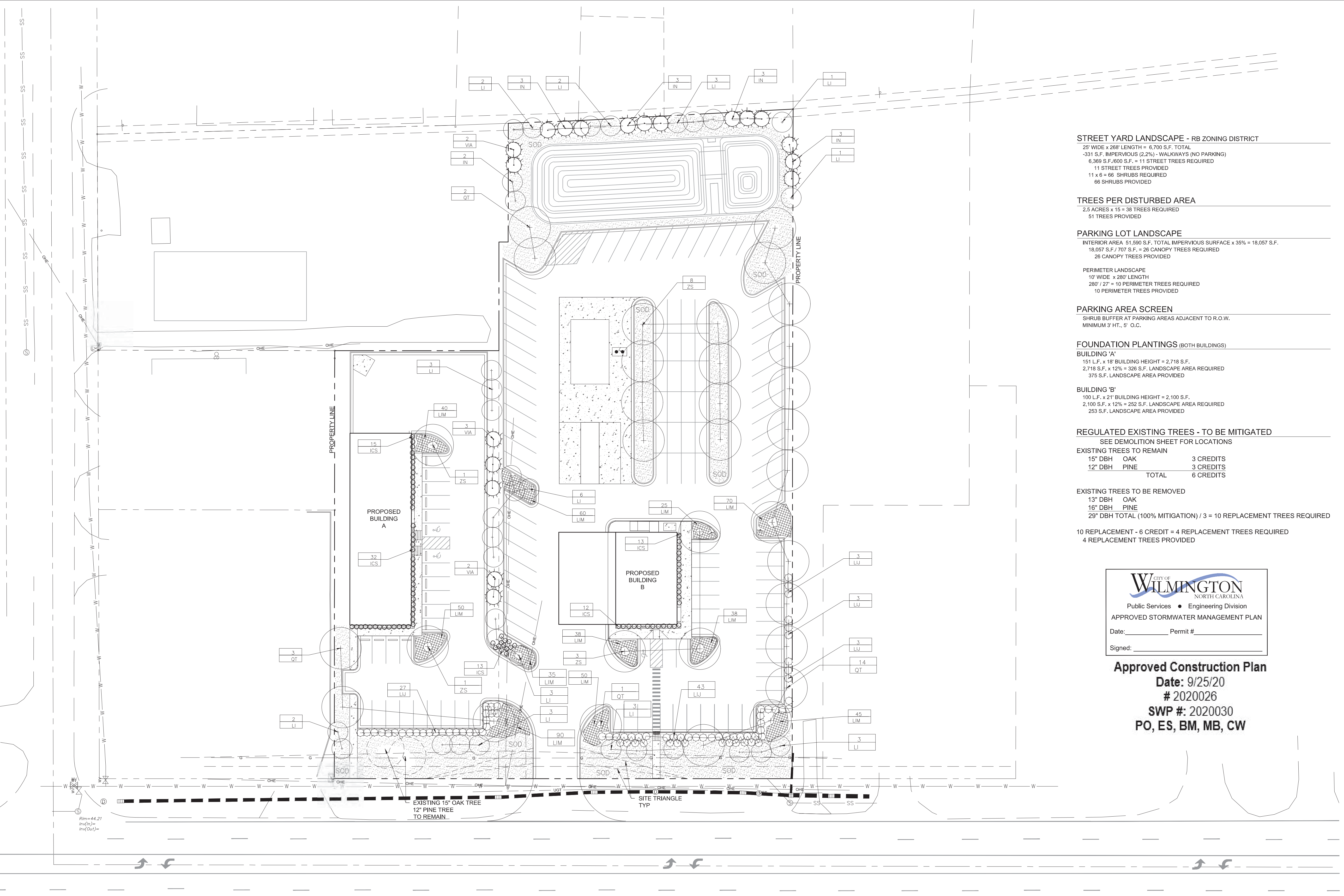
**Site Information**

Project Owner: H&S Family Holdings, LLC  
1608 Market Street, Wilmington, NC 28401

Proposed Buildings (both) Footprint: 7,400 SF  
Proposed Parking Lot: 51,590 SF

Note: Prior to any clearing, grading, or construction activity, tree protection fencing will be installed around protected trees or groves of trees. No construction workers, tools, materials, or vehicles are permitted within the tree protection fencing.

Note: All proposed vegetation within sight triangles shall not interfere with clear visual sight lines from 30° to 10°, per city sec 18-556 CoW LDC.



**STREET YARD LANDSCAPE - RB ZONING DISTRICT**

25' WIDE x 268' LENGTH = 6,700 S.F. TOTAL  
-331 S.F. IMPERVIOUS (2.2%) - WALKWAYS (NO PARKING)  
6,369 S.F. PERVIOUS S.F. = 11 STREET TREES REQUIRED  
11 STREET TREES PROVIDED  
11 x 6 = 66 SHRUBS REQUIRED  
66 SHRUBS PROVIDED

**TREES PER DISTURBED AREA**

2.5 ACRES x 15 = 38 TREES REQUIRED  
51 TREES PROVIDED

**PARKING LOT LANDSCAPE**

INTERIOR AREA 51,590 S.F. TOTAL IMPERVIOUS SURFACE x 35% = 18,057 S.F.  
18,057 S.F. / 707 S.F. = 26 CANOPY TREES REQUIRED  
26 CANOPY TREES PROVIDED

**PERIMETER LANDSCAPE**

10' WIDE x 280' LENGTH  
280' / 27' = 10 PERIMETER TREES REQUIRED  
10 PERIMETER TREES PROVIDED

**PARKING AREA SCREEN**

SHRUB BUFFER AT PARKING AREAS ADJACENT TO R.O.W.  
MINIMUM 3' HT., 5' O.C.

**FOUNDATION PLANTINGS (BOTH BUILDINGS)**

**BUILDING 'A'**

151 L.F. x 18' BUILDING HEIGHT = 2,718 S.F.  
2,718 S.F. x 12% = 326 S.F. LANDSCAPE AREA REQUIRED  
375 S.F. LANDSCAPE AREA PROVIDED

**BUILDING 'B'**

100 L.F. x 21' BUILDING HEIGHT = 2,100 S.F.  
2,100 S.F. x 12% = 252 S.F. LANDSCAPE AREA REQUIRED  
253 S.F. LANDSCAPE AREA PROVIDED

**REGULATED EXISTING TREES - TO BE MITIGATED**

SEE DEMOLITION SHEET FOR LOCATIONS

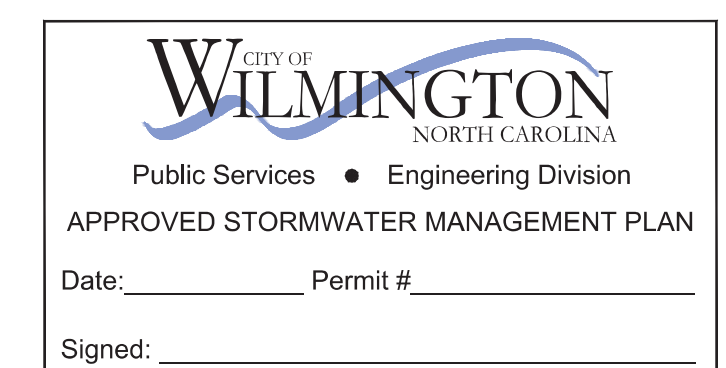
**EXISTING TREES TO REMAIN**

15" DBH OAK	3 CREDITS
12" DBH PINE	3 CREDITS
<b>TOTAL</b>	<b>6 CREDITS</b>

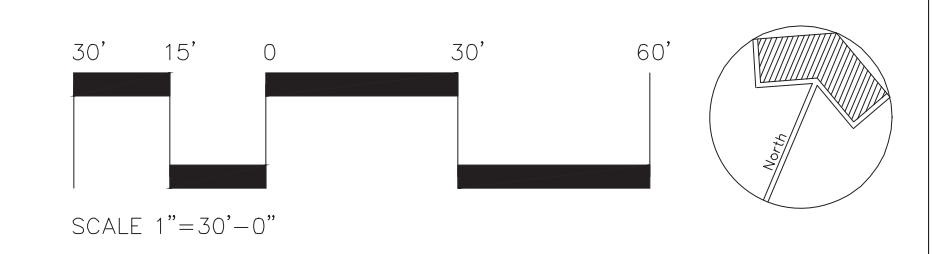
**EXISTING TREES TO BE REMOVED**

13" DBH OAK	
16" DBH PINE	
29" DBH TOTAL (100% MITIGATION) / 3 = 10 REPLACEMENT TREES REQUIRED	

10 REPLACEMENT - 6 CREDIT = 4 REPLACEMENT TREES REQUIRED  
4 REPLACEMENT TREES PROVIDED



**Approved Construction Plan**  
Date: 9/25/20  
# 2020026  
SWP #: 2020030  
PO, ES, BM, MB, CW



No.	Revision	Date	By

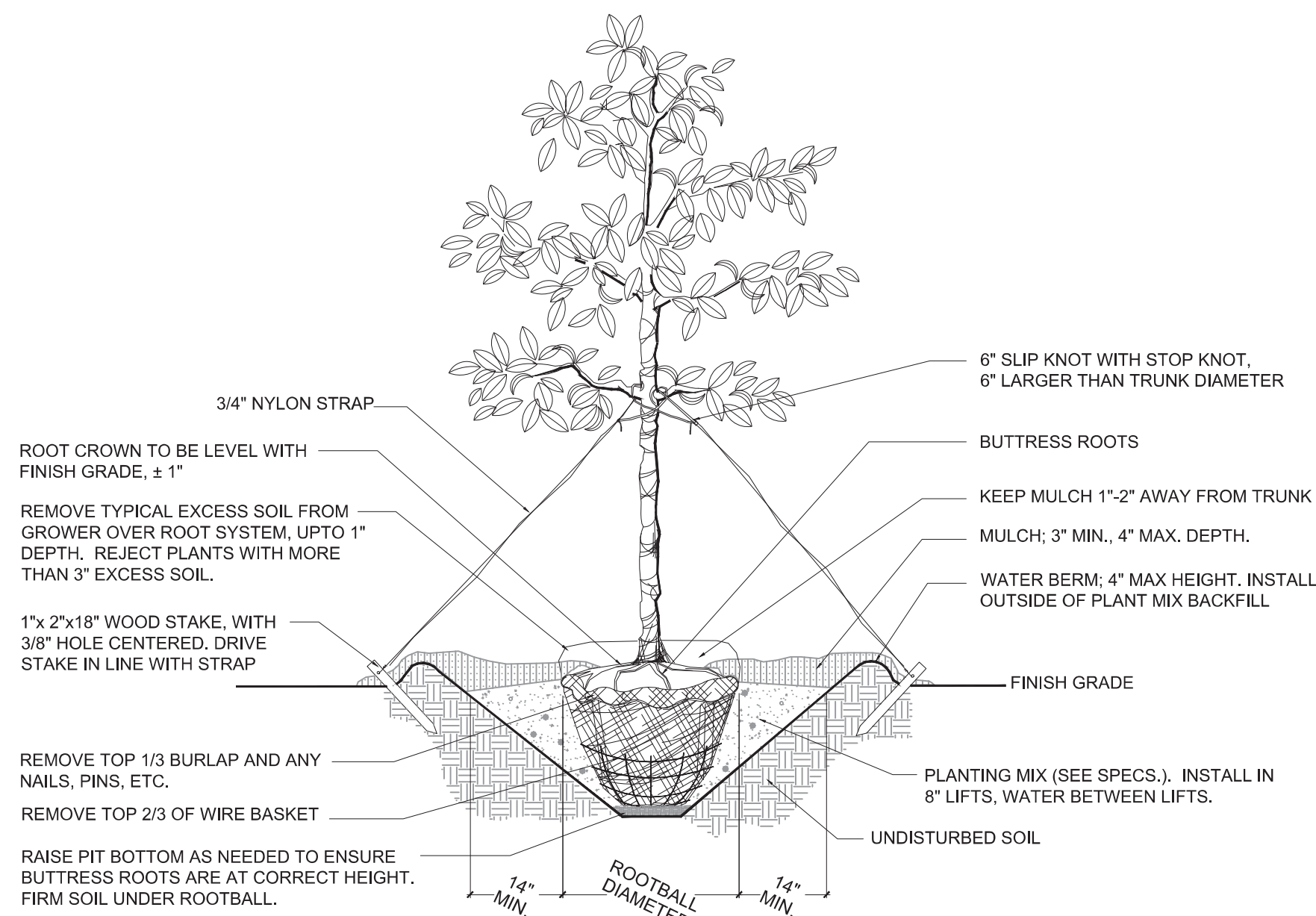
ENTERPRISE RENT-A-CAR MARKET STREET  
WILMINGTON NORTH CAROLINA

H & S FAMILY HOLDINGS, LLC  
1608 MARKET STREET  
WILMINGTON, NC 28401

PORT CITY CONSULTING  
ENGINEERS, PLLC  
6216 STONEBRIDGE ROAD  
WILMINGTON, NC 28409  
910-599-1744 LICENSE No. P-1032

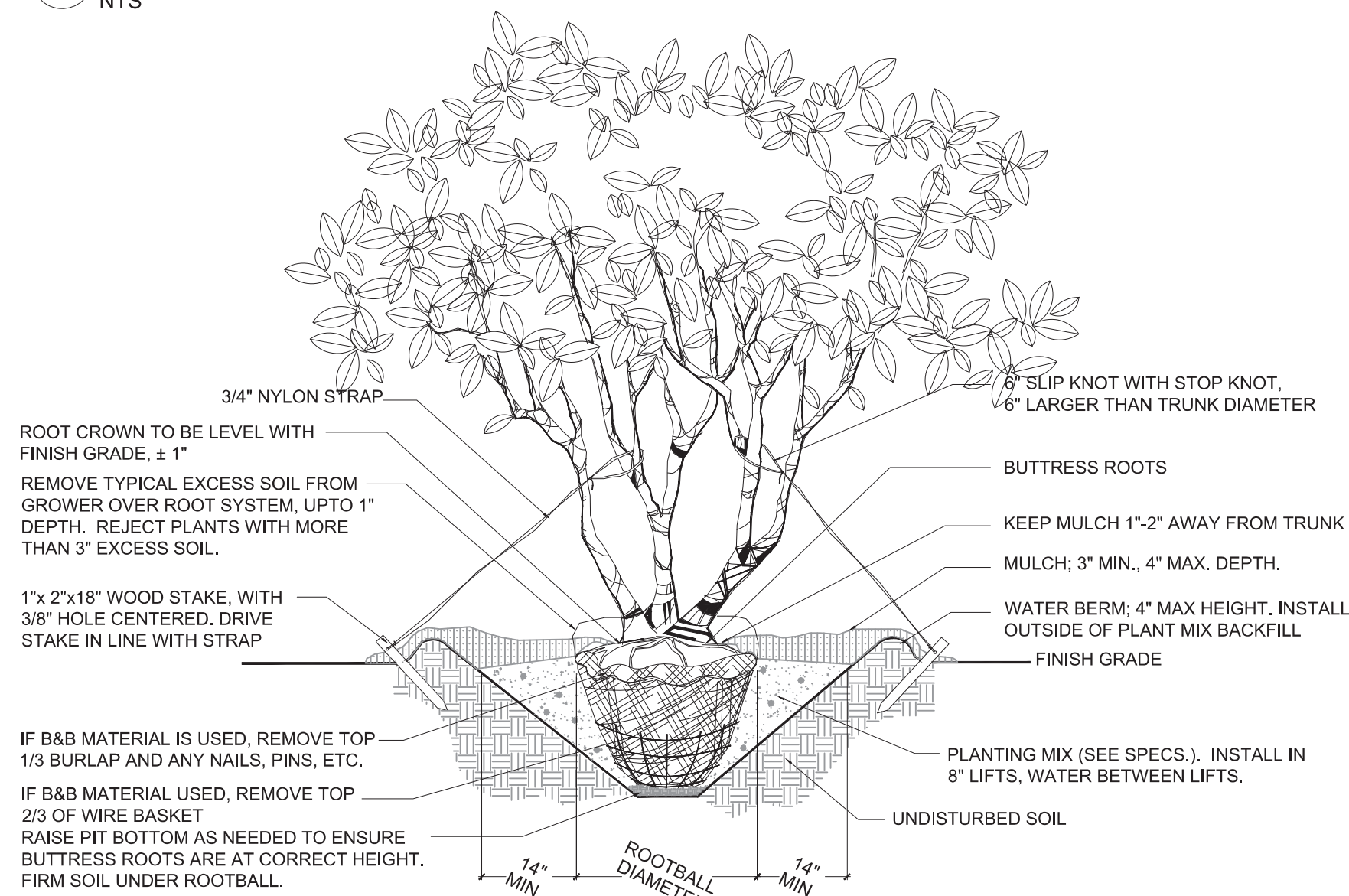
PLANTING PLAN

Sheet No.  
L-1



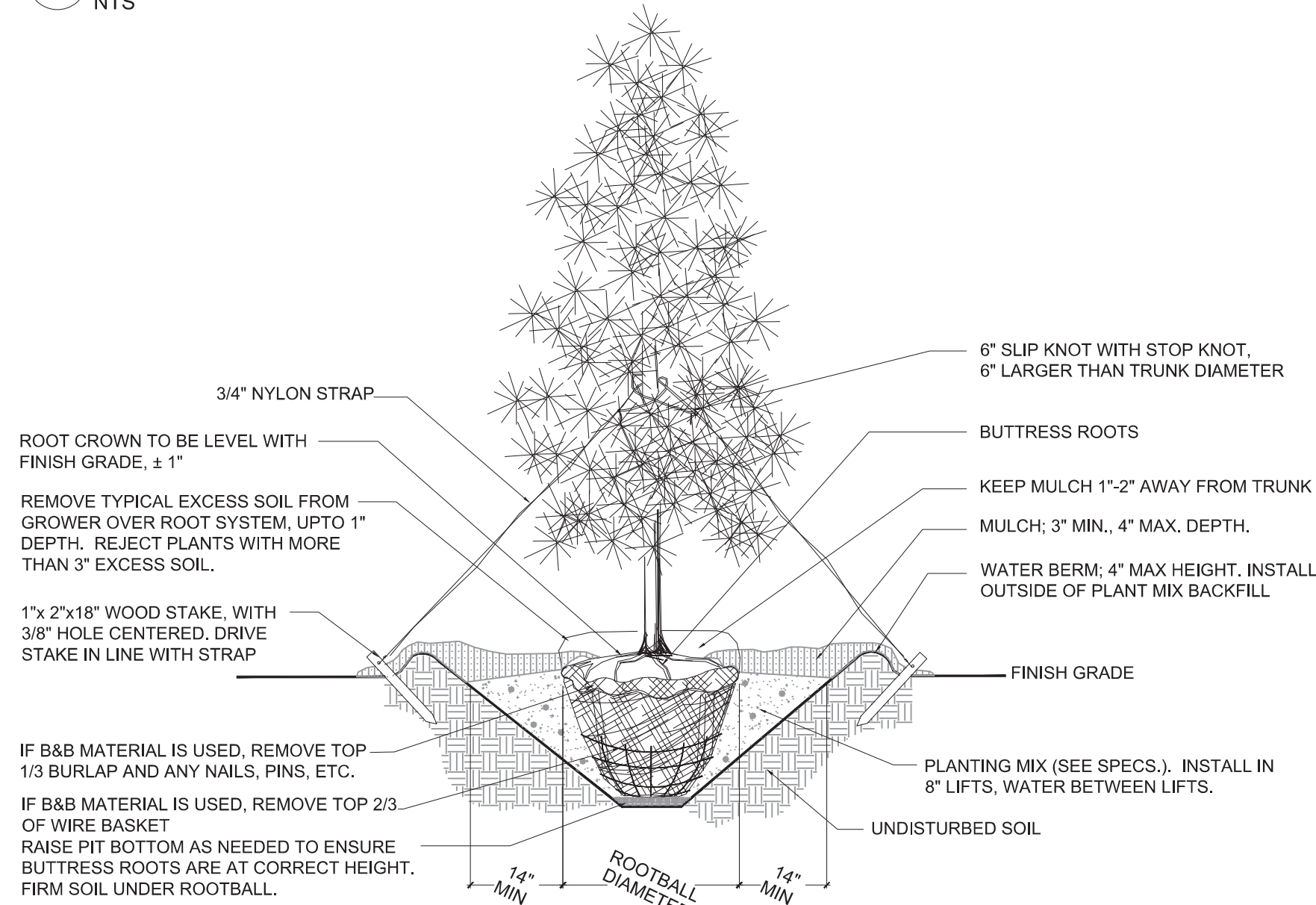
**SINGLE STEM TREE INSTALLATION DETAIL**

NTS



**MULTI-STEM TREE INSTALLATION DETAIL**

NTS

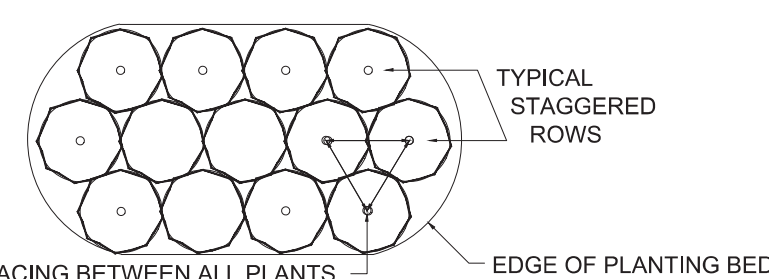


**EVERGREEN TREE INSTALLATION DETAIL**

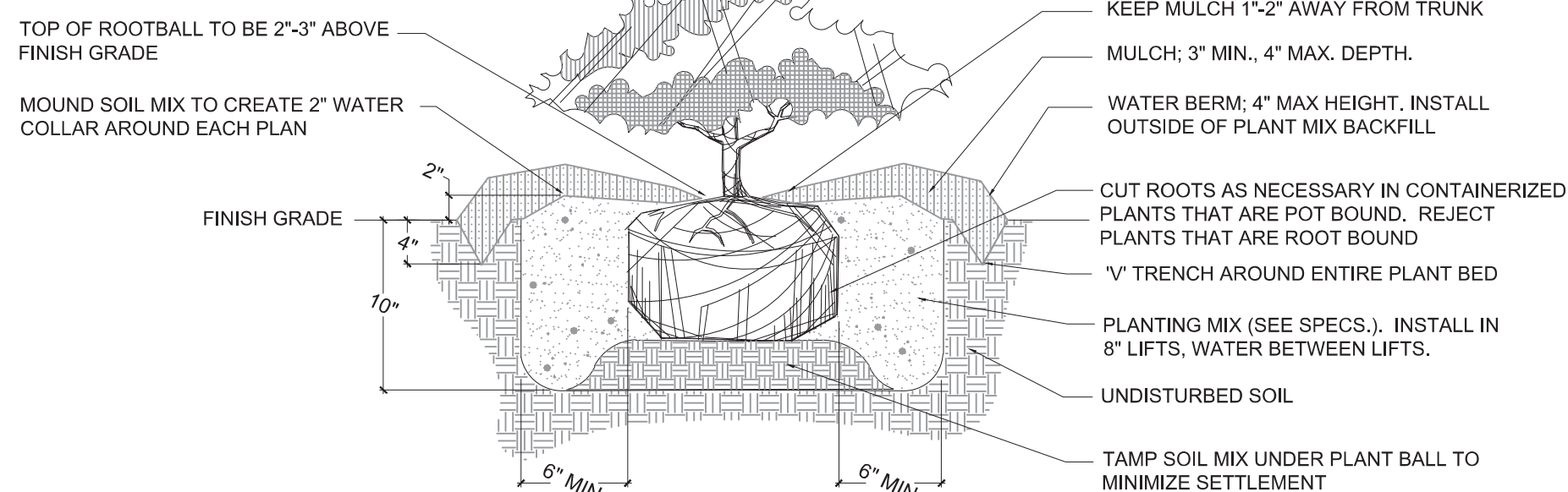
NTS

**NOTES:**

- OMIT COLLAR AROUND EACH SHRUB WHEN IRRIGATION SYSTEM IS PRESENT.
- INSTALL TOP OF PLANT BALL 2" ABOVE ADJACENT GRADE
- TAMP PLANT SOIL MIX FIRMLY IN 8" LIFTS AROUND PLANT BALL
- SOAK PLANT BALL AND PIT IMMEDIATELY AFTER INSTALLATION.



**TYPICAL PLANTING BED LAYOUT**



**SHRUB INSTALLATION DETAIL**

NTS

**PLANT LIST**

KEY	QTY.	SCIENTIFIC NAME	COMMON NAME	HEIGHT/SPREAD	CAL.	GAL. CONT.	REMARKS
<b>TREES</b>							
IN	14	ILEX X NELLIE R STEVENS	NELLIE STEVENS HOLLY	6'-8" HT		15	MATCHED SPECIMEN, FULL FULL TO GROUND
LI	34	LAGERSTROEMIA INDICA	CATAWBA CRAPE MYRTLE	6'-8" HT		15	MATCHED SPECIMEN, FULL MULTI-TRUNK, MIN. 3 TRUNKS
QT	21	QUERCUS TEXANA	NUTTALL OAK	12'-14" HT	2.5"		MATCHED SPECIMEN, FULL STRAIGHT TRUNK
ZS	13	ZELKOVA SERRATA	JAPANESE ZELKOVA	12'-14" HT	2.5"		MATCHED SPECIMEN, FULL STRAIGHT TRUNK
<b>SHRUBS AND GROUND COVER</b>							
LJ	79	LIGUSTRUM JAPONICUM EAST BAY	EAST BAY LIGUSTRUM	18"-24" HT		3	FULL, 36" O.C.
LIM	541	LIRIOPE MUSCARI EVERGREEN GIANT	LIRIOPE	8"-12" HT		1	FULL, 24" O.C.
ICS	72	ILEX CRENATA SOFT TOUCH HOLLY	SOFT TOUCH HOLLY	18"-24" HT		3	FULL, 30" O.C.
VIA	5	VIBURNUM AWABUKI CHINDO	CHINDO VIBURNUM	36"-42" HT		10	FULL.
<b>LAWN AND MULCH</b>							
SOD - BERMUDA, SEE LOCATIONS ON PLANTING PLAN							
MULCH - PINE STRAW							

**GENERAL PLANTING NOTES**

- PRIOR TO EXCAVATIONS, CONTRACTOR SHALL NOTIFY ULOCO AT 1-800-632-4949 TO ASCERTAIN LOCATIONS OF ELECTRICAL CABLES, CONDUIT, UTILITY LINES, OIL TANKS, GAS LINES, TELEPHONE LINES, WATER LINES, CABLE LINES, SANITARY SEWER LINES, SUPPLY LINES, SUBSURFACE DRAINAGE, AND IRRIGATION LINES, ETC. NOTIFY THE CITY SHOULD THE ABOVE MENTIONED SUBSURFACE IMPROVEMENTS PRESENT AN OBSTRUCTION IN LOCATIONS DESIGNATED FOR PLANTING. IN SUCH SITUATIONS, PROCEED AFTER THE OWNERS HAS APPROVED AN ALTERNATE LOCATION. DAMAGE INCURRED BY THE CONTRACTOR SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO REPAIR IN A TIMELY MANNER TO THE SATISFACTION OF THE OWNER. THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF QUANTITIES IN THE PLANT SCHEDULE. ANY DISCREPANCIES BETWEEN QUANTITIES ON THE PLANS AND THE PLANT SCHEDULE SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER. ANY FIELD ADJUSTMENTS OR QUANTITY ADJUSTMENTS MUST BE AUTHORIZED PRIOR TO PLANTING.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT ALL PLANTING PITS PERCOLATE PROPERLY PRIOR TO PLANTING INSTALLATION.
- WHERE PROPOSED TREE LOCATIONS CONFLICT WITH EXISTING UTILITIES, TREES MAY BE FIELD ADJUSTED UNDER THE DIRECTION OF THE CITY INSPECTOR.

**PLANT MATERIAL NOTES**

- ALL PLANT MATERIAL SHALL CONFORM TO THE MOST CURRENT STANDARDS ESTABLISHED BY THE AMERICAN ASSOCIATION OF NURSERYMAN.
- ALL PLANT MATERIAL SHALL BE GUARANTEED TO BE IN HEALTHY CONDITION FOR ONE YEAR AFTER ACCEPTANCE BY THE OWNER.
- TREES SUPPLIED MUST HAVE BEEN PROPERLY PLANTED AND GROWN IN THE NURSERY. THE ROOT CROWN (ALSO CALLED THE TRUNK FLARE) SHALL BE EVIDENT NEAR THE TOP OF THE GROUND. ANY EXCESS SOIL, UP TO 3 INCHES COVERING THE CROWN WILL HAVE TO BE REMOVED CAREFULLY BY HAND, IN ORDER TO PREVENT ROOT SCRAPES. THE TREE IS THEN TO BE PLANTED WITH THE ROOT CROWN IN PROPER RELATION TO THE SURROUNDING GRADE. ANY TREES WITH MORE THAN 3 INCHES OF SOIL ON TOP OF THE ROOT CROWN WILL BE REJECTED. THE NURSERY OWNERS MAY DIG OVERSIZE BALLS AND REMOVE THE SOIL IN ORDER FOR THE ROOT SYSTEM DIAMETER (WHICH IS THE REQUIRED ROOT BALL DIAMETER) TO MEET THE SPECIFICATION FOR THE TRUNK CALIPER REQUIRED.
- BALL AND BURLAPPED (B&B) PLANTS MUST HAVE FIRM, NATURAL BALLS OF EARTH, OF DIAMETER NOT LESS THAN RECOMMENDED IN THE 'TREE AND SHRUB TRANSPLANTING MANUAL', AND BE OF SUFFICIENT DEPTH TO INCLUDE THE FIBROUS AND FEEDING ROOTS. PLANTS MOVED WITH A BALL WILL NOT BE ACCEPTED IF THE BALL IS DRY, CRACKED OR BROKEN BEFORE OR DURING PLANTING OPERATIONS.
- CONTAINERIZED PLANTS SHALL HAVE A ROOT SYSTEM SUFFICIENT ENOUGH IN DEVELOPMENT TO HOLD THE SOIL INTACT WHEN REMOVED FROM THE CONTAINER. THE ROOT SYSTEM SHALL NOT BE ROOT BOUND, A CONDITION WHERE THE ROOT SYSTEM IS DENSE IN MASS, EXCESSIVELY INTERTWINED, AND HAS ESTABLISHED A CIRCULAR GROWTH PATTERN.
- ALL TREES SHALL MEET AMERICAN STANDARD FOR NURSERY STOCK (ANSI, 1990, PART 1, "SHADE AND FLOWERING TREES").

**TREE PLANTING NOTES**

- REMOVE ALL TREATED OR PLASTIC-COATED BURLAP, STRAPPING, WIRE OR NYLON TWINE FROM ROOTBALL. AFTER SETTING IN HOLE, CUT AWAY 2/3 OF WIRE BASKET, IF ANY, AND TOP 1/3 OF BURLAP.
- SOAK ROOTBALL AND PIT IMMEDIATELY AFTER INSTALLATION.
- TOP OF ROOTBALL TO BE 2" ABOVE ADJACENT UPHILL GRADE. DO NOT PLACE ADDITIONAL SOIL ON TOP OF ROOTBALL.
- CONSTRUCT 4" HIGH SAUCER (WATER BERM) OUTSIDE OF PLANT MIX BACKFILL.
- STAKES FOR TREE SUPPORT (LESS THAN 3" CAL.) SHALL BE CONSTRUCTION GRADE PRESSURE TREATED PINE, NOMINAL SIZE OF 2in. x 2in. x 18in. LONG AND POINTED AT ONE END. GUYING FABRIC SHALL BE 'ARBORTAPE', AS MANUFACTURED BY NEPTCO, PAWTUCKET, RI. (401) 722-5500 (OR APPROVED EQUAL). COLOR SHALL BE OLIVE DRAB.
- STAKE TREES 3" CAL. OR GREATER WITH 'DUCK BILL' ANCHORS DRIVEN INTO UNDISTURBED SOIL. GUYING FABRIC SHALL BE 3/4" NYLON STRAPPING.

**PLANTING MIX NOTES**

- PLANTING MIX MAY BE DEVELOPED BY AMENDING THE EXISTING SOIL OR REMOVING THE EXISTING SOIL AND REPLACING WITH NEW PLANTING MIX. IT SHALL BE UNIFORM COMPOSITION THROUGHOUT, WITH A MIXTURE OF SUBSOIL. IT SHALL BE FREE OF STONES, LUMPS, LIVE PLANTS AND THEIR ROOTS, STICKS, AND OTHER EXTRANEIOUS MATTER.
- PLANTING MIX SHALL NOT BE USED WHILE IN A FROZEN OR MUDDY CONDITION.
- UNLESS OTHERWISE SPECIFIED IN THE CONTRACT DOCUMENTS THE PLANTING MIX SHALL CONTAIN THE FOLLOWING SPECIFIED PERCENTAGES OF CONSTITUENTS.  
CLAY - MINIMUM 10% - MAXIMUM 20% CLAY  
SILT - MINIMUM 30% - MAXIMUM 50%  
ORGANIC MATERIAL - MINIMUM 5% - MAXIMUM 8%  
SAND - BALANCE OF MIX
- THE PLANTING MIX SHALL HAVE THE FOLLOWING NUTRIENTS AT THE SPECIFIED PERCENT BASE SATURATION, TO BE DETERMINED BY SOIL TEST CONDUCTED BY THE CONTRACTOR.  
CALCIUM - 55% TO 80%  
MAGNESIUM - 10% TO 30%  
POTASSIUM - 5% TO 8%
- ORGANIC MATERIAL IS DEFINED AS COMPOST/HUMUS SUCH AS SAWDUST OR LEAF MOLD THAT HAS COMPLETED THE DECOMPRESSION PROCESS. PERCENTAGE OF ORGANIC MATTER SHALL BE DETERMINED BY LOSS OF IGNITION, OF MOISTURE FREE SAMPLES DRIED AT 65 DEGREES.
- PLANTING MIX SHALL HAVE AN ACIDITY RANGE OF pH 5.5 TO 7.0.

**FERTILIZER NOTES**

- SHRUB AND GROUND COVER FERTILIZER, FROM THE FOLLOWING:  
PRODUCT ANALYSIS APPL.RATE  
Ornamental plant fertilizer 12-6-6 2 lbs/100 Sq. Ft. or  
Ornamental plant fertilizer 14-7-7 2 lbs/100 Sq. Ft.
- SHRUB AND GROUND COVER FERTILIZER SHALL HAVE 50% WATER INSOLUBLE NITROGEN, THE CHLORINE CONTENT IS NOT TO EXCEED 5%.
- NO TREE FERTILIZER IS TO BE APPLIED AT TIME OF PLANTING.
- TREE FERTILIZER IS TO BE APPLIED AT THE 6 MONTH OR 12 MONTH WARRANTY INSPECTION TIME, WHICHEVER IS CLOSER TO EARLY SPRING BEGINNING GROWTH.
- TREE FERTILIZER, FROM THE FOLLOWING:  
PRODUCT ANALYSIS APPL.RATE  
Ornamental tree fertilizer 31-7-7 1cup/ inch caliper, or  
Ornamental tree fertilizer 12-6-6 1 cup/ inch caliper
- TREE FERTILIZER SHALL HAVE 50% WATER INSOLUBLE NITROGEN, THE CHLORINE CONTENT IS NOT TO EXCEED 5%.
- SOURCE OF NITROGEN SHALL BE UREA FORMALDEHYDE OR A SIMILAR SLOW RELEASE SOURCE.

**MULCH**

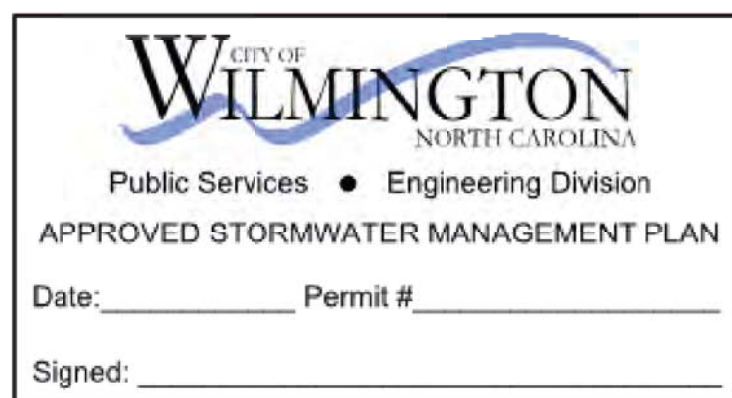
- PINE STRAW MULCH SHALL BE FREE OF ANY FOREIGN MATERIALS, PIECES LARGER THAN 4 INCHES, AND/OR GREEN WOOD.

**WATER**

- WATER SHALL BE FREE FROM OIL, ACIDS, ALKALIS, SALTS OR ANY OTHER SUBSTANCE THAT IS TOXIC OR OTHERWISE HARMFUL TO VEGETATION.
- ALL LANDSCAPE AND TURF AREAS IRRIGATED (100% COVERAGE). LANDSCAPE CONTRACTOR SHALL PROVIDE COMPLETE IRRIGATION DESIGN TO BE APPROVED BY OWNER PRIOR TO CONSTRUCTION. TURF AREAS TO BE SEPARATE ZONES FROM PLANTING AREAS.

**TURF AND GRASSES**

- SEED
  - Grass Seed: Fresh, clean, dry, new-crop seed complying with AOSA's "Journal of Seed Technology; Rules for Testing Seeds" for purity and germination tolerances.
  - Seed Species: CENTIPEDEGRASS (EREMOCHLOA OPHIUROIDES)
  - Seed Species: Seed of grass with not less than 95 percent germination, not less than 85 percent pure seed, and not more than 0.5 percent weed seed.
- TURFGRASS SOD
  - Turfgrass Sod: Certified, complying with "Specifications for Turfgrass Sod Materials" in TPI's "Guideline Specifications to Turfgrass Sodding." Furnish viable sod of uniform density, color, and texture, strongly rooted, and capable of vigorous growth and development when planted.
  - Turfgrass Species: BERMUDAGRASS (CYNODON DACTYLON)
  - Turfgrass Species: Sod of grass with not less than 95 percent germination, not less than 85 percent pure seed, and not more than 0.5 percent weed seed.



**Approved Construction Plan**  
 Date: 9/25/20  
 # 2020026  
 SWP #: 2020030  
 PO, ES, BM, MB, CW

No.	Revision	Date	By

Designer	H+W	Scale	AS SHOWN
Drawn By	H+W	Date	July 7, 2020
Checked By	H+W	Job No.	

**ENTERPRISE RENT-A-CAR MARKET STREET**  
 WILMINGTON NORTH CAROLINA

H & S FAMILY HOLDINGS, LLC  
 1608 MARKET STREET  
 WILMINGTON, NC 28401

PORT CITY CONSULTING  
 ENGINEERS, PLLC  
 6216 STONEBRIDGE ROAD  
 WILMINGTON, NC 28409  
 910-599-1744 LICENSE No. P-1032

**PLANTING LIST, NOTES, DETAILS**