

SITE DATA

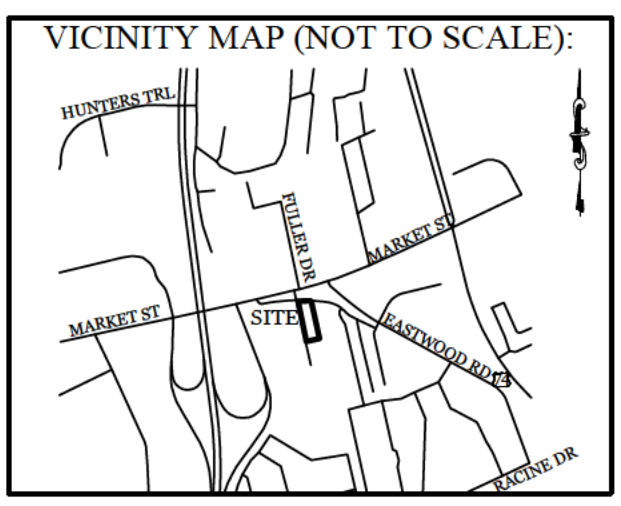
PARCEL ID: R05009-006-007-000
 ZONING: RB-REGIONAL BUSINESS
 CAMA LAND USE CLASSIFICATION: URBAN
 PROJECT ADDRESS: 5 GARRIS RD. WILMINGTON, NC 28403
 CURRENT OWNERS: CLOS PROPERTIES LLC 20 OLD EASTWOOD RD. WILMINGTON, NC 28403

TOTAL ACREAGE IN PROJECT BOUNDARY: 95,463 S.F. (2.19 AC.)

EXISTING ONSITE IMPERVIOUS AREAS: SITE IS VACANT

SOIL TYPE: JO (Johnston soils) 31.9%
 Le (Leon sand) 15.2%
 St (Stallings fine sand) 40.1%
 To (Tolima loamy fine sand) 12.7%
 (Per the USDA websoil survey map)

- NOTES:**
- EXISTING SURVEY DATA PROVIDED BY CHRIS GAGNE, N.C. PLS No. L-4700.
 - NO WETLANDS EXIST ON SITE PER ECS REPORT DATED 8/22/16.
 - PROPERTY IS LOCATED IN ZONE "X" ACCORDING TO THE FEMA FLOOD INSURANCE RATE MAP, 3720314800K COMMUNITY-PANEL NUMBER 3148, DATED 08/28/18
 - THIS PROPERTY IS NOT AFFECTED BY AN AEC.
 - NO CONSERVATION RESOURCES EXIST ON SITE.
 - THIS PROPERTY IS NOT AFFECTED BY ANY HISTORIC OR ARCHAEOLOGICAL SITES.
 - PRIOR TO ANY CLEARING, GRADING OR CONSTRUCTION ACTIVITY, A CONSTRUCTION ENTRANCE AND SILT FENCING SHALL BE INSTALLED.
 - 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.
 - TREE PROTECTION SIGNAGE SHALL BE ADDED ALONG THE LIMITS OF DISTURBANCE ADJACENT TO TREES EVERY 100' TO PROTECT TREES ADJACENT TO THE CONSTRUCTION SITE.
 - OWNER HAS PROVIDED A PAYMENT IN LIEU FOR THE REQUIRED TREE MITIGATION.



REVISIONS

| NO. | DATE | DESCRIPTION |
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INTRACOASTAL ENGINEERING, PLLC

5725 Oleander Dr. Unit E-7
 Wilmington, North Carolina 28403
 Phone: 910.859.8983
 Email: charlie@intracoastalengineering.com
 License Number P-0662

EXISTING CONDITIONS, TREE REMOVAL & PROTECTION PLAN

FOR

CAPE FEAR MOTO GROUP 2

WILMINGTON, NORTH CAROLINA



CLIENT INFORMATION:

CLOS PROPERTIES, LLC
 SHANE HEFFERNAN
 255 OLD EASTWOOD ROAD
 WILMINGTON, NC 28403
 (910) 202-4662

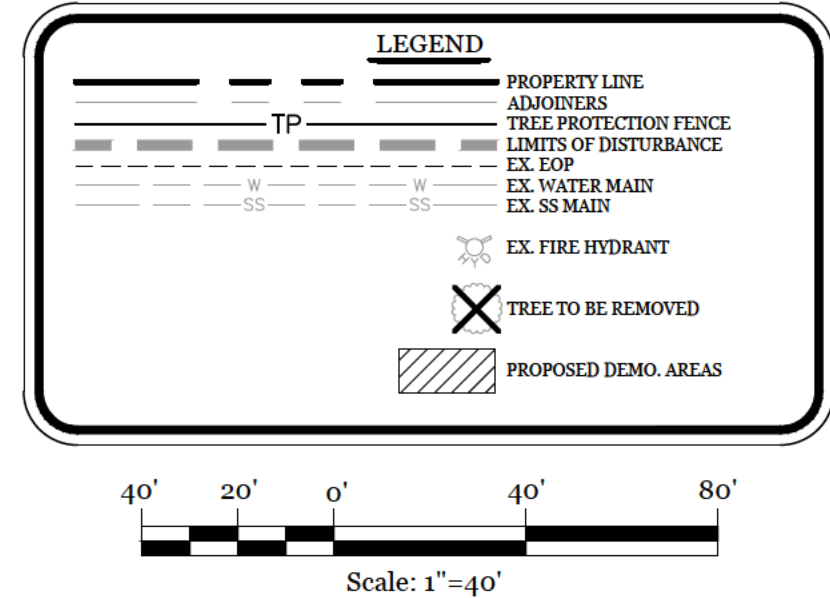
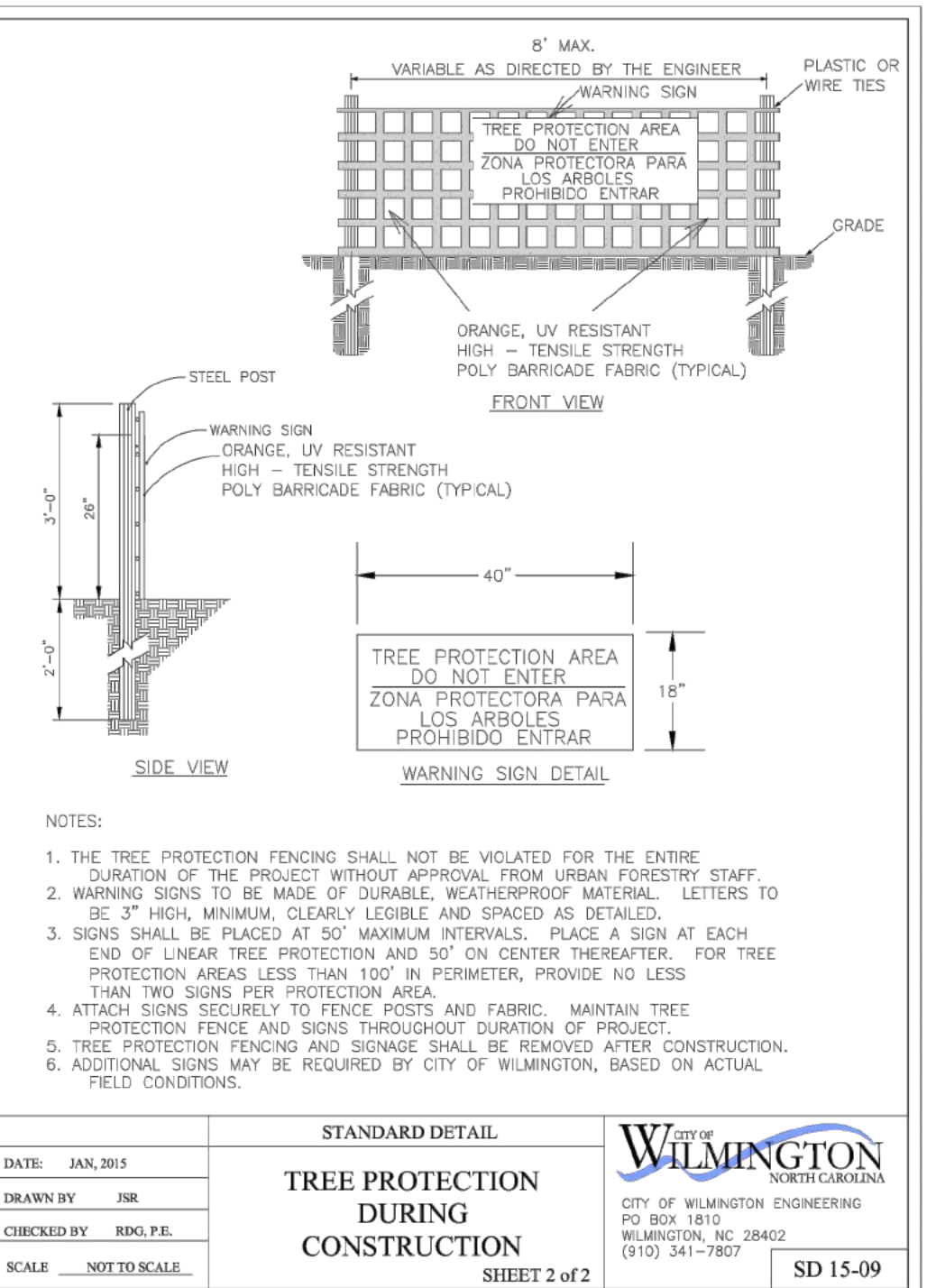
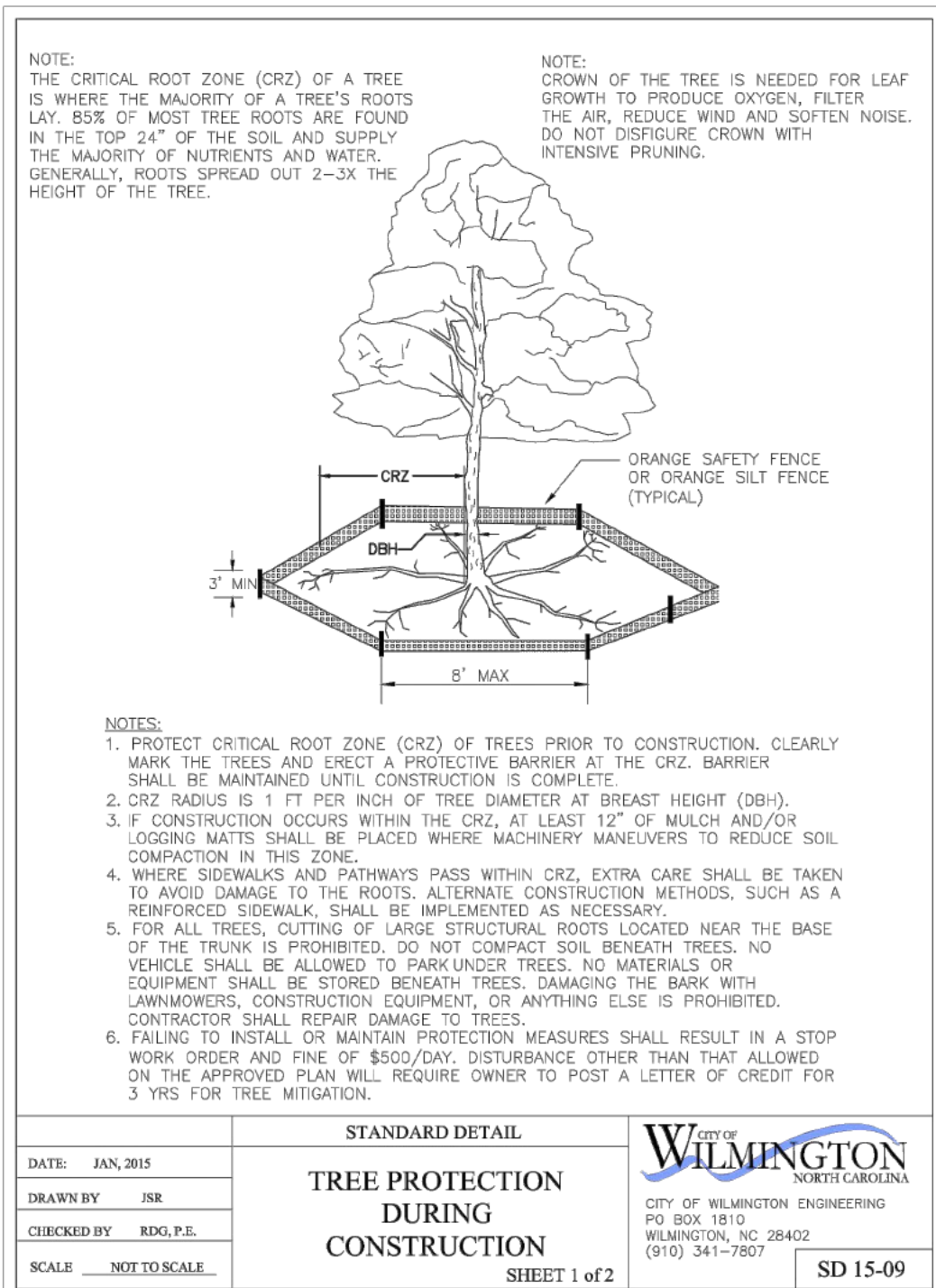
DRAWN: JAE SHEET SIZE: 24 X 36
 CHECKED: CDC DATE: 9/23/2021
 APPROVED: CDC SCALE: 1" = 40'
 PROJECT NUMBER: 2021-024

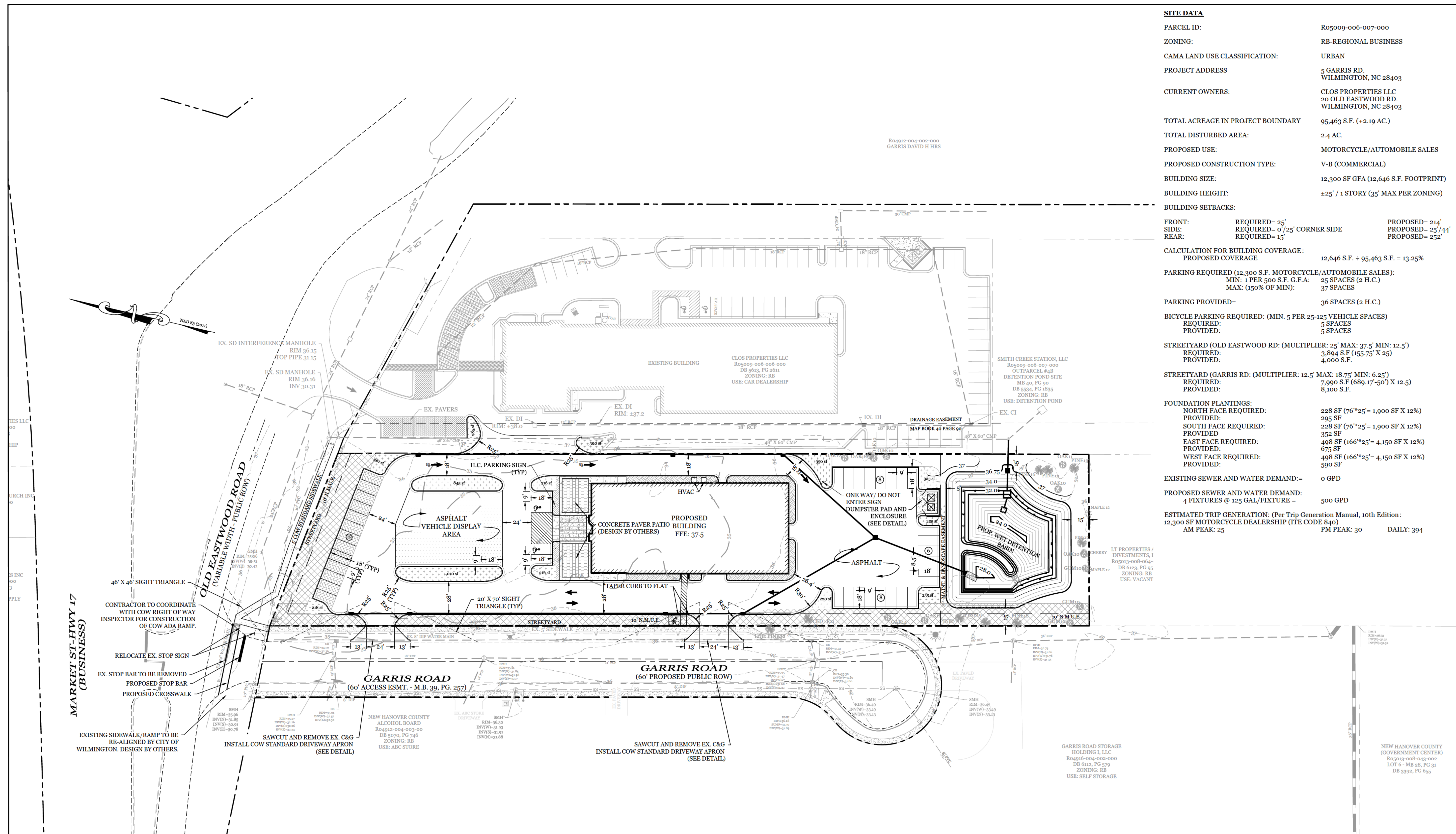
DRAWING NUMBER: **C-0** 1 OF 9

MITIGATION REQUIRED FOR REMOVAL OF SIGNIFICANT TREES

| QTY | SIZE | TYPE | % MITIGATION | REPLACEMENT TREE QTY |
|--------------------------------|------|--------|--------------|----------------------|
| 1 | 24" | OAK | 100% | 16.00 |
| 1 | 25" | OAK | 100% | 16.67 |
| 1 | 26" | OAK | 100% | 17.33 |
| 1 | 27" | OAK | 100% | 18.00 |
| 3 | 28" | OAK | 100% | 56.00 |
| 1 | 29" | OAK | 100% | 19.33 |
| 1 | 31" | OAK | 100% | 20.67 |
| 1 | 32" | OAK | 100% | 21.33 |
| 2 | 9" | MIMOSA | 25% | 3.00 |
| 3 | 15" | MIMOSA | 25% | 7.50 |
| 1 | 26" | ELM | 50% | 8.67 |
| TOTAL REPLACEMENT TREES | | | | 205 |

205 TREES REQUIRED FOR MITIGATION - 52 TREE CREDITS = 153 TREES REQUIRED FOR MITIGATION





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| CAMA LAND USE CLASSIFICATION: | URBAN | |
| PROJECT ADDRESS: | 5 GARRIS RD. WILMINGTON, NC 28403 | |
| CURRENT OWNERS: | CLOS PROPERTIES LLC 20 OLD EASTWOOD RD. WILMINGTON, NC 28403 | |
| TOTAL ACREAGE IN PROJECT BOUNDARY: | 95.463 S.F. (±2.19 AC.) | |
| TOTAL DISTURBED AREA: | 2.4 AC. | |
| PROPOSED USE: | MOTORCYCLE/AUTOMOBILE SALES | |
| PROPOSED CONSTRUCTION TYPE: | V-B (COMMERCIAL) | |
| BUILDING SIZE: | 12,300 SF GFA (12,646 S.F. FOOTPRINT) | |
| BUILDING HEIGHT: | +25' / 1 STORY (35' MAX PER ZONING) | |
| BUILDING SETBACKS: | | |
| FRONT: | REQUIRED= 25' | PROPOSED= 214' |
| SIDE: | REQUIRED= 0'/25' CORNER SIDE | PROPOSED= 25'/41' |
| REAR: | REQUIRED= 15' | PROPOSED= 252' |

CALCULATION FOR BUILDING COVERAGE:

| | |
|-------------------|------------------------------------|
| PROPOSED COVERAGE | 12,646 S.F. ÷ 95.463 S.F. = 13.25% |
|-------------------|------------------------------------|

PARKING REQUIRED (12,300 S.F. MOTORCYCLE/AUTOMOBILE SALES):

| | |
|-----------------------------|--------------------|
| MIN: 1 PER 500 S.F. G.F.A.: | 25 SPACES (2 H.C.) |
| MAX: (150% OF MIN): | 37 SPACES |

PARKING PROVIDED= 36 SPACES (2 H.C.)

BICYCLE PARKING REQUIRED: (MIN. 5 PER 25-125 VEHICLE SPACES)

| | |
|-----------|----------|
| REQUIRED: | 5 SPACES |
| PROVIDED: | 5 SPACES |

STREETYARD (OLD EASTWOOD RD. (MULTIPLIER: 25' MAX: 37.5' MIN: 12.5'))

| | |
|-----------|----------------------------------|
| REQUIRED: | 7,990 S.F. (689.17'-50') X 12.5' |
| PROVIDED: | 3,804 S.F. (155.75' X 25') |

STREETYARD (GARRIS RD. (MULTIPLIER: 12.5' MAX: 18.75' MIN: 6.25'))

| | |
|-----------|----------------------------------|
| REQUIRED: | 7,990 S.F. (689.17'-50') X 12.5' |
| PROVIDED: | 8,100 S.F. |

FOUNDATION PLANTINGS:

| | |
|----------------------|--------------------------------------|
| NORTH FACE REQUIRED: | 228 SF (76" X 25" = 1,900 SF X 12%) |
| PROVIDED: | 295 SF |
| SOUTH FACE REQUIRED: | 228 SF (76" X 25" = 1,900 SF X 12%) |
| PROVIDED: | 352 SF |
| EAST FACE REQUIRED: | 498 SF (166" X 25" = 4,150 SF X 12%) |
| PROVIDED: | 675 SF |
| WEST FACE REQUIRED: | 498 SF (166" X 25" = 4,150 SF X 12%) |
| PROVIDED: | 590 SF |

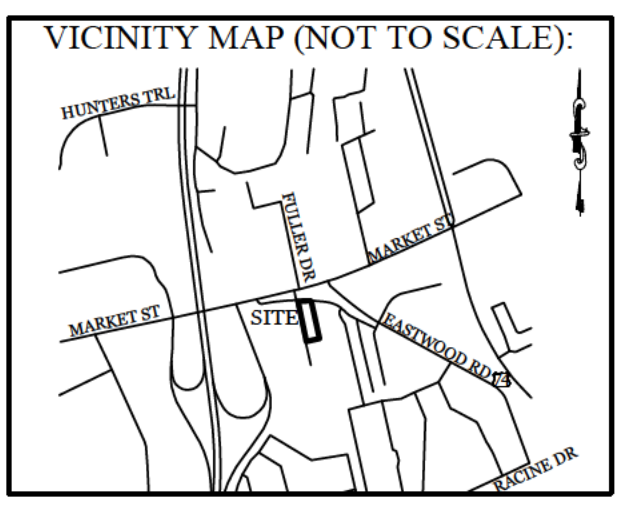
EXISTING SEWER AND WATER DEMAND= 0 GPD

PROPOSED SEWER AND WATER DEMAND:

| | |
|--------------------------------|---------|
| 4 FIXTURES @ 125 GAL/FIXTURE = | 500 GPD |
|--------------------------------|---------|

ESTIMATED TRIP GENERATION: (Per Trip Generation Manual, 10th Edition: 12,300 SF MOTORCYCLE DEALERSHIP (ITE CODE 840))

| | | |
|-------------|-------------|------------|
| AM PEAK: 25 | PM PEAK: 30 | DAILY: 394 |
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REVISIONS

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INTRACOASTAL ENGINEERING, PLLC

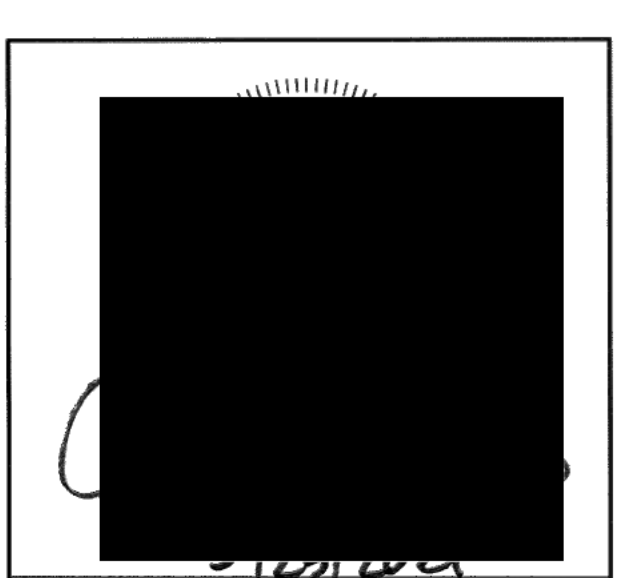
5725 Oleander Dr. Unit E-7
Wilmington, North Carolina 28403
Phone: 910.859.8983
Email: charlie@intracoastalengineering.com
License Number P-0662

SITE PLAN

FOR

CAPE FEAR MOTO GROUP 2

WILMINGTON, NORTH CAROLINA



CLIENT INFORMATION:

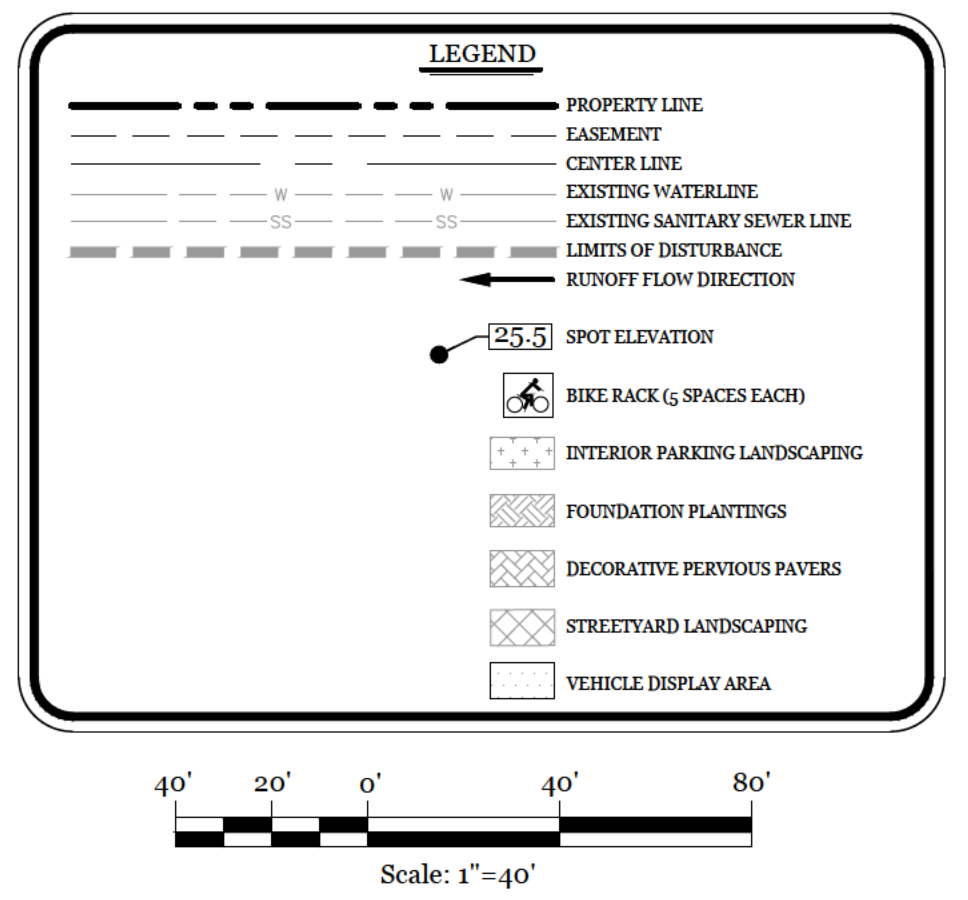
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SHANE HEFFERNAN
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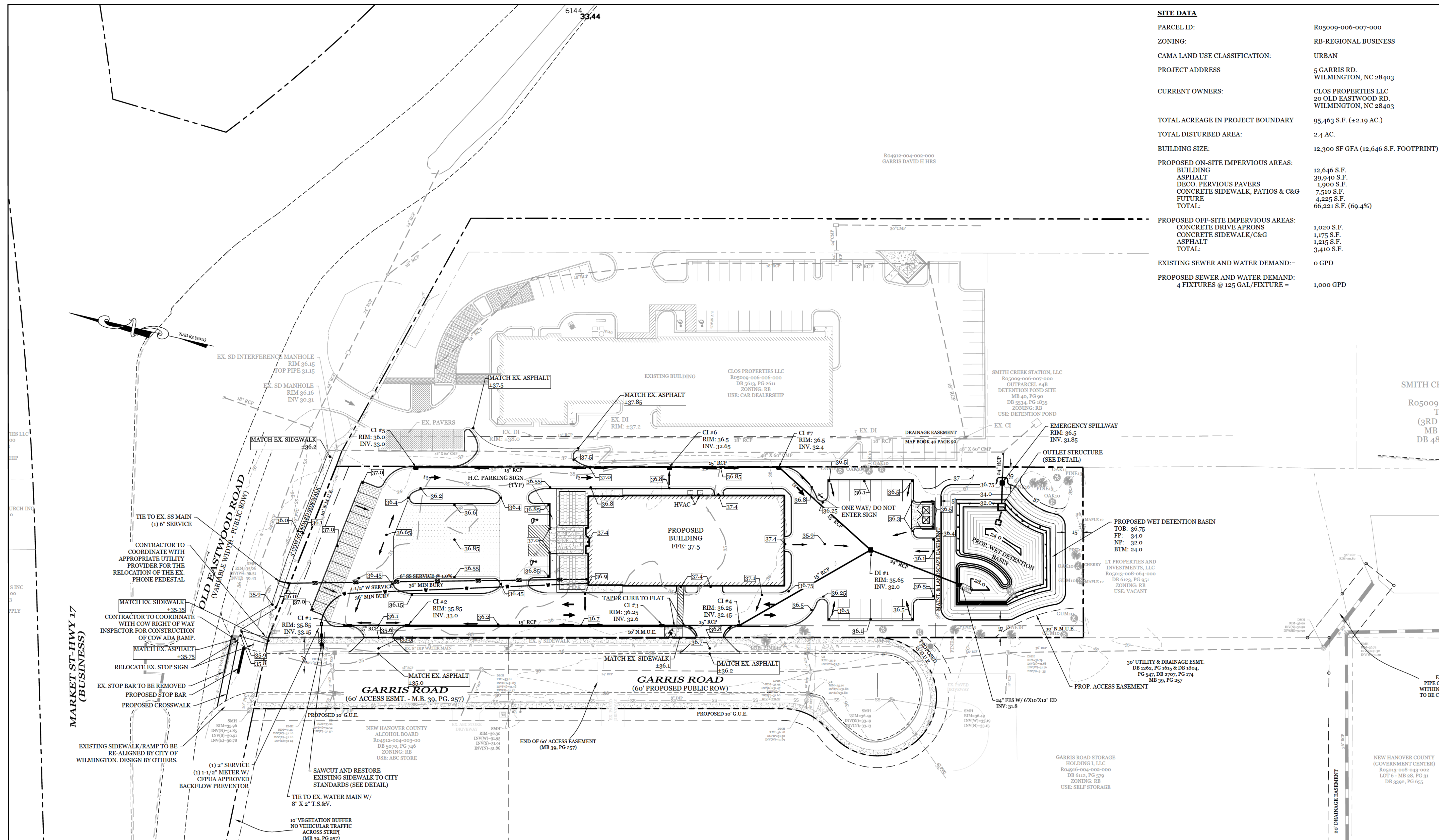
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| APPROVED: | CDC | SCALE: | 1" = 40' |
| PROJECT NUMBER: | 2021-024 | | |

DRAWING NUMBER: **C-1**

2 OF 9

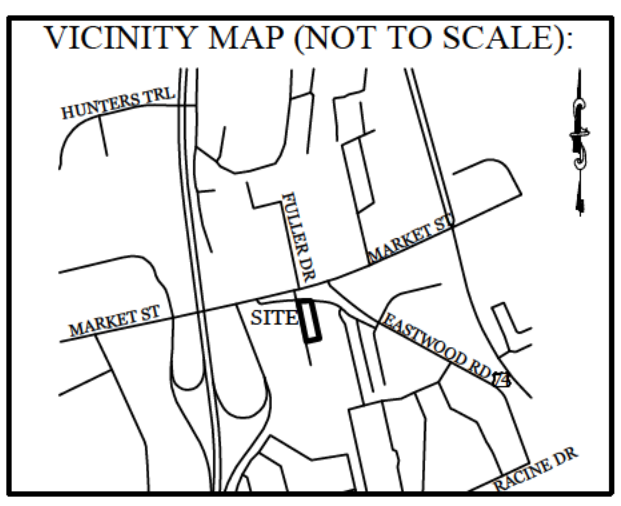
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- ALL DEVELOPMENT SHALL BE IN ACCORDANCE WITH CITY OF WILMINGTON ZONING ORDINANCE.
 - PROJECT SHALL COMPLY WITH ALL FEDERAL, STATE & CITY OF WILMINGTON REGULATIONS.
 - RUNOFF FROM ALL IMPERVIOUS SURFACES, INCLUDING ROOF DRAINAGE, TO BE DIRECTED TO STORM DRAIN SYSTEM.
- FIRE & SAFETY NOTES:**
- PROPOSED BUILDING WILL NOT BE SPRINKLED
 - PARKING AND LANDSCAPING CANNOT BLOCK FIRE HYDRANTS
 - ALL WEATHER ACCESS ROAD MUST BE MAINTAINED AROUND CONSTRUCTION SITE AT ALL TIMES.
 - HYDRANTS SHALL BE OF SUFFICIENT NUMBERS TO ACCOMMODATE BASE FIRE FLOW REQUIREMENTS OF STRUCTURE.
 - IN ADDITION TO THE STANDARD COMMENTS, 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 ON THE SITE THAT DEMONSTRATES THAT EXISTING EMERGENCY RESPONDER RADIO SIGNAL LEVELS MEET THE REQUIREMENTS OF SECTION 510 OF THE 2018 NC FIRE CODE.
- GENERAL TRAFFIC NOTES:**
- ALL TRAFFIC CONTROL SIGNS AND PAVEMENT MARKINGS OFF THE R/W TO BE MAINTAINED BY THE PROPERTY OWNER IN ACCORDANCE WITH MUTCD STANDARDS.
 - ALL PAVEMENT MARKINGS IN PUBLIC RIGHTS-OF-WAY AND FOR DRIVEWAYS ARE TO BE THERMOPLASTIC AND MEET CITY AND/OR NCDOT STANDARDS. [DETAIL SD 15-13 & SD 11-3 COFW TECH STDS]
 - ALL SIGNS AND PAVEMENT MARKINGS OFF RIGHT OF WAY ARE TO MEET/BE MAINTAINED TO MUTCD (MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES) STANDARDS. [DETAIL SD 15-13 & SD 11-3 COFW TECH STDS]
 - A UTILITY CUT PERMIT IS REQUIRED FOR EACH OPEN CUT OF A CITY STREET. NOTE THIS ON THE PLAN AND CONTACT 341-5899 FOR MORE DETAILS. IN CERTAIN CASES AN ENTIRE RESURFACING OF THE AREA BEING OPEN CUT MAY BE REQUIRED.
 - ANY BROKEN OR MISSING SIDEWALK PANELS, DRIVEWAY PANELS AND CURBING WILL BE REPLACED.
 - CONTACT 811 PRIOR TO CONTACTING CITY OF WILMINGTON, TRAFFIC ENGINEERING REGARDING THE UTILITIES IN ROW.
 - ALL PROPOSED VEGETATION WITHIN SIGHT TRIANGLES SHALL NOT INTERFERE WITH CLEAR VISUAL SIGHT LINES FROM 30° TO 10°.
 - STREET TREES MUST BE LOCATED A MINIMUM OF 15 FEET FROM STREET LIGHTS. [COFW SD 15-17]
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 - THE PROPOSED CROSSWALK AT THE INTERSECTION OF GARRIS RD AND OLD EASTWOOD RD. ON THE SITE PLAN SHALL BE INSTALLED AS PER CITY/NCDOT STANDARDS.
 - STREET LIGHTS TO BE PROVIDED TO MEET CITY OF WILMINGTON STANDARDS PRIOR TO REQUEST FOR C.O.





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| TOTAL ACREAGE IN PROJECT BOUNDARY: | 95,463 S.F. (±2.19 AC.) |
| TOTAL DISTURBED AREA: | 2.4 AC. |
| BUILDING SIZE: | 12,300 SF GFA (12,646 S.F. FOOTPRINT) |
| PROPOSED ON-SITE IMPERVIOUS AREAS: | |
| BUILDING | 12,646 S.F. |
| ASPHALT | 39,940 S.F. |
| DECO. IMPERVIOUS PAVERS | 1,900 S.F. |
| CONCRETE SIDEWALK, PATIOS & C&G | 7,510 S.F. |
| FUTURE | 4,225 S.F. |
| TOTAL: | 66,221 S.F. (69.4%) |
| PROPOSED OFF-SITE IMPERVIOUS AREAS: | |
| CONCRETE DRIVE APRONS | 1,020 S.F. |
| CONCRETE SIDEWALK/C&G | 1,175 S.F. |
| ASPHALT | 1,215 S.F. |
| TOTAL: | 3,410 S.F. |
| EXISTING SEWER AND WATER DEMAND: = | 0 GPD |
| PROPOSED SEWER AND WATER DEMAND: | |
| 4 FIXTURES @ 125 GAL/FIXTURE = | 1,000 GPD |



REVISIONS

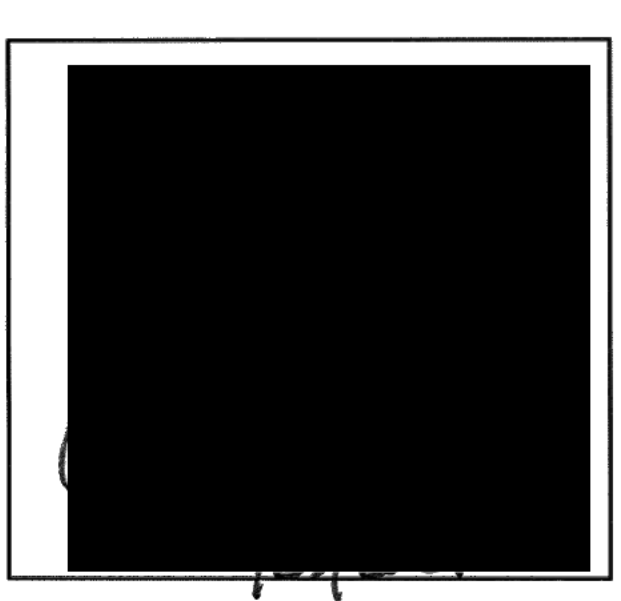
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5725 Oleander Dr. Unit E-7
Wilmington, North Carolina 28403
Phone: 910.859.8983
Email: charlie@intracoastalengineering.com
License Number P-0662

GRADING, DRAINAGE, & UTILITIES

FOR
CAPE FEAR MOTO GROUP 2
WILMINGTON, NORTH CAROLINA



CLIENT INFORMATION:

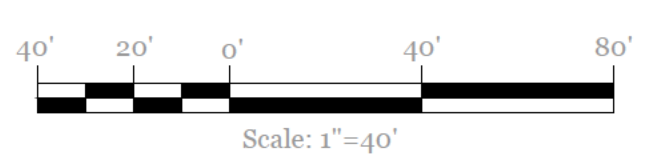
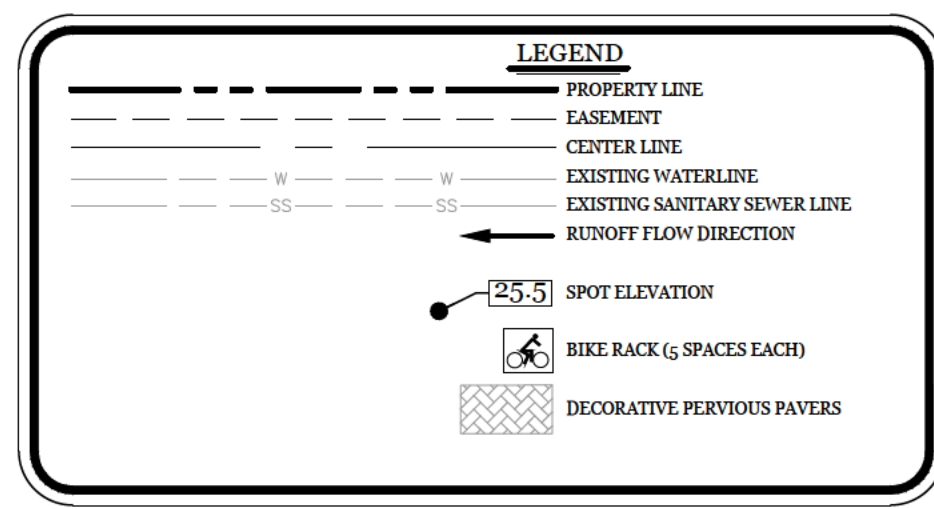
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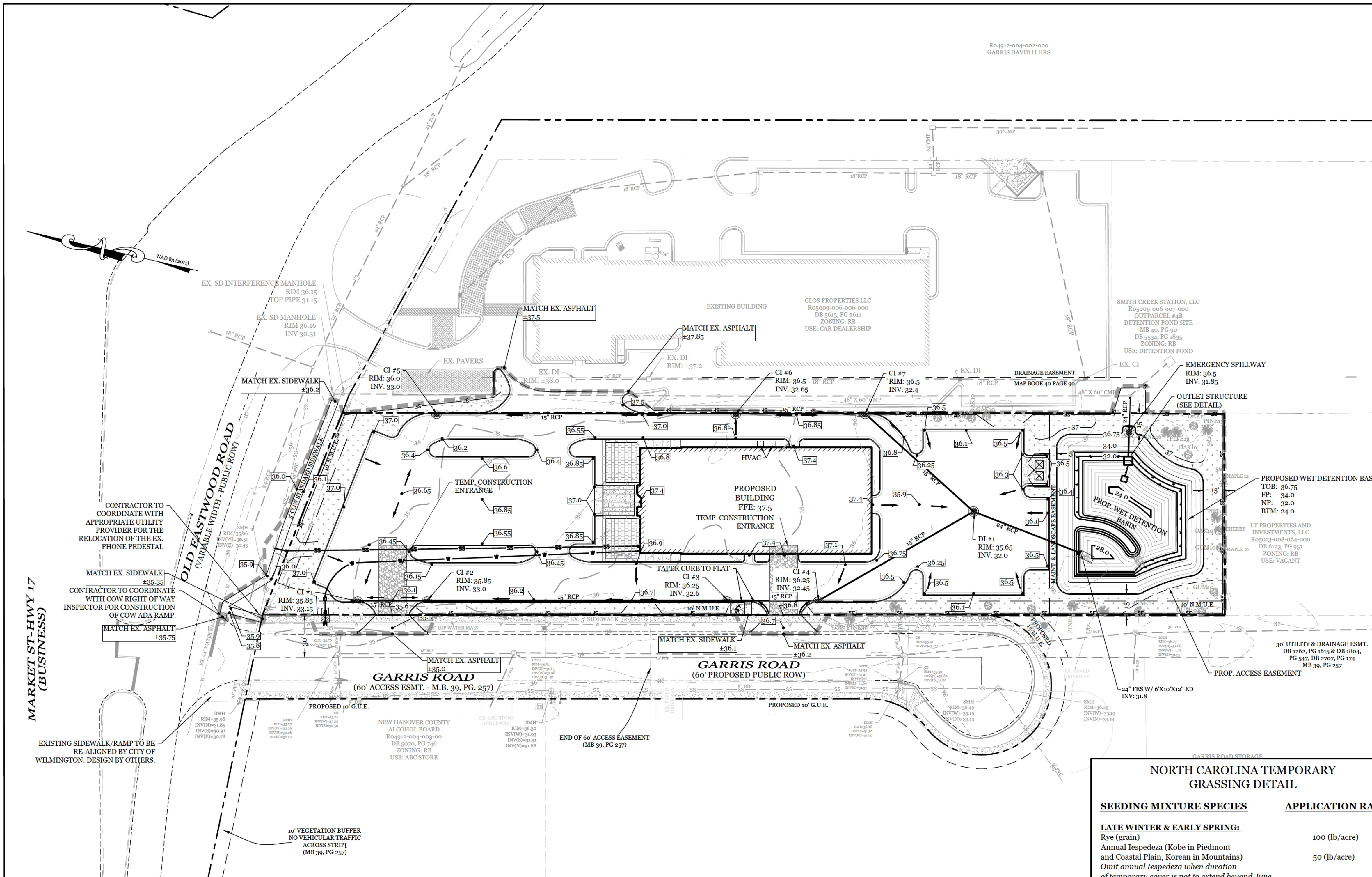
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| APPROVED: | CDC | SCALE: | 1" = 40' |
| PROJECT NUMBER: | 2021-024 | | |

DRAWING NUMBER: **C-2** 3 OF 9

- DEVELOPMENT NOTES:**
- ALL DEVELOPMENT SHALL BE IN ACCORDANCE WITH CITY OF WILMINGTON ZONING ORDINANCE.
 - PROJECT SHALL COMPLY WITH ALL FEDERAL, STATE & CITY OF WILMINGTON REGULATIONS.
 - RUNOFF FROM ALL IMPERVIOUS SURFACES, INCLUDING ROOF DRAINAGE, TO BE DIRECTED TO STORM DRAIN SYSTEM.
- UTILITY NOTES:**
- EXISTING WATER AND SANITARY SEWER SERVICES ARE CURRENTLY AVAILABLE TO THE SITE FROM CAPE FEAR PUBLIC UTILITY AUTHORITY PUBLIC MAINS.
 - ALL PROPOSED UTILITY SERVICES, SUCH AS ELECTRIC POWER, CATV, GAS & TELEPHONE SHALL BE INSTALLED UNDERGROUND.
 - ALL WATER & SEWER UTILITIES TO BE INSTALLED PER CFPWA TECHNICAL SPECIFICATIONS & STANDARDS.
 - ANY BACKFLOW PREVENTION DEVICES REQUIRED BY THE CFPWA WILL NEED TO BE ON THE LIST OF APPROVED DEVICES BY USFCOCCIR OR ASSE.
 - IF CONTRACTOR DESIRES CFPWA 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.
 - WHEN PVC WATER MAINS AND SERVICES ARE PROPOSED, THE PIPES ARE TO BE MARKED WITH NO. 10 INSULATED, SINGLE-STRAND COPPER WIRE INSTALLED & STRAPPED TO THE PIPES WITH DUCT TAPE. THIS IS TO BE ACCESSIBLE IN ALL VALVES AND METER BOXES TO AID IN FUTURE LOCATION OF FACILITIES.
 - THE CONTRACTOR IS RESPONSIBLE FOR THE LOCATION AND PROTECTION OF EXISTING UTILITIES DURING CONSTRUCTION. CALL NC811 AT 811 OR 1-800-632-4949. CONTRACTOR IS RESPONSIBLE FOR THE REPAIR AND REPLACEMENT OF ANY UTILITIES, CURB & GUTTER, PAVEMENT, ETC. THAT MAY BE DAMAGED DURING CONSTRUCTION. DAMAGED ITEMS SHALL BE REPAIRED TO AT LEAST THE QUALITY OR WORKMANSHIP FOUND IN THE ORIGINAL ITEM.
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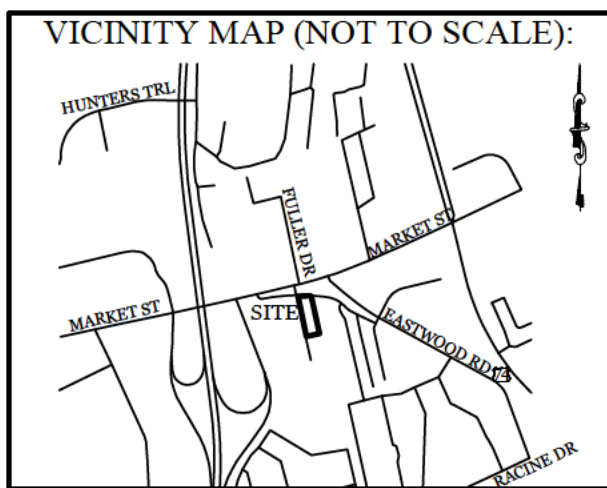
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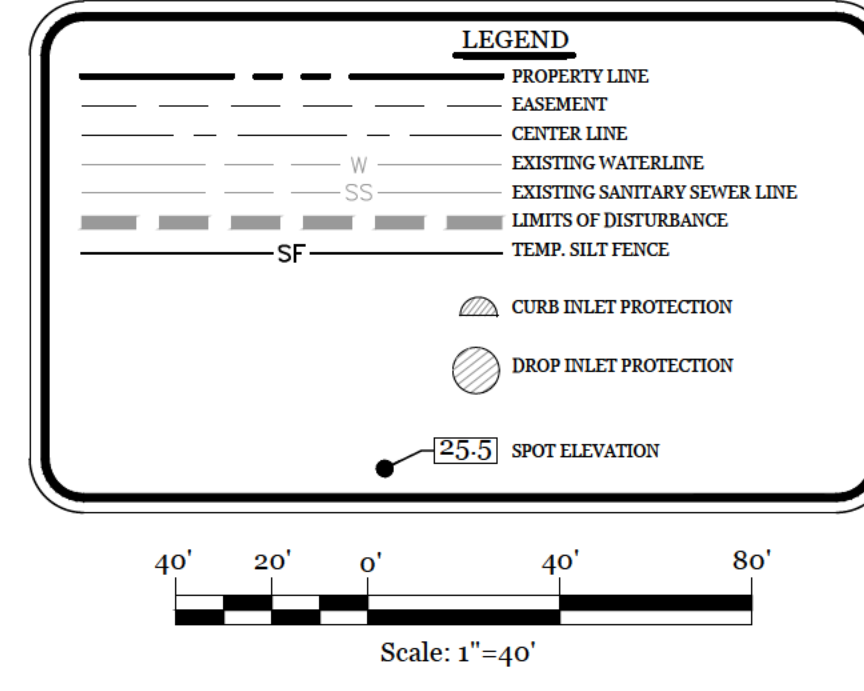


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MARKET ST-HWY 17 (BUSINESS)

- MAINTENANCE PLAN:**
- ALL EROSION AND SEDIMENT CONTROL PRACTICES WILL BE CHECKED FOR STABILITY AND OPERATION FOLLOWING EVERY RUNOFF-PRODUCING RAINFALL, BUT IN NO CASE, LESS THAN ONCE EVERY WEEK AND WITHIN 24 HOURS OF EVERY HALF INCH RAINFALL.
 - ALL POINTS OF EGRESS WILL HAVE CONSTRUCTION ENTRANCES THAT WILL BE PERIODICALLY TOP-DRESSED WITH AN ADDITIONAL 2 INCHES OF 2-3 INCH STONE TO MAINTAIN PROPER DEPTH. THEY WILL BE MAINTAINED IN A CONDITION TO PREVENT MUD OR SEDIMENT FROM LEAVING THE SITE. IMMEDIATELY REMOVE OBJECTIONABLE MATERIAL SPILLED, WASHED OR TRACKED ONTO THE CONSTRUCTION ENTRANCE OR ROADWAYS.
 - SEDIMENT WILL BE REMOVED FROM HARDWARE CLOTH AND GRAVEL INLET PROTECTION, ROCK DOUGHNUT INLET PROTECTION, SEDIMENT TRAP BAFFLES, AND ROCK PIPE INLET PROTECTION WHEN THE DESIGNED STORAGE CAPACITY HAS BEEN HALF FILLED WITH SEDIMENT. ROCK WILL BE CLEANED OR REPLACED WHEN THE SEDIMENT POOL IS NO LONGER DRAINS AS DESIGNED. DEBRIS WILL BE REMOVED FROM THE ROCK AND HARDWARE CLOTH TO ALLOW PROPER DRAINAGE. SILT SACKS WILL BE EMPTIED ONCE A WEEK AND AFTER EVERY RAIN EVENT. SEDIMENT WILL BE REMOVED FROM AROUND BEAVER DAMS, DANDY SACKS AND SOCKS ONCE A WEEK AND AFTER EVERY RAIN EVENT.
 - CHECK SEDIMENT BASIN AND BAFFLES WEEKLY & AFTER EACH RAINFALL EVENT. REMOVE SEDIMENT FROM TRAP & BAFFLES AND RESTORE TO ORIGINAL VOLUME WHEN SEDIMENT ACCUMULATES TO ABOUT 1/2 THE DESIGN VOLUME. REPAIR / REPLACE BAFFLES IF TORN, COLLAPSED, OR INEFFECTIVE.
 - DIVERSION DITCHES WILL BE CLEANED OUT IMMEDIATELY TO REMOVE SEDIMENT OR OBSTRUCTIONS FROM THE FLOW AREA. THE DIVERSION RIDGES WILL ALSO BE REPAIRED. SWALES MUST BE TEMPORARILY STABILIZED WITHIN 21 CALENDAR DAYS OF CEASE OF ANY PHASE OF ACTIVITY ASSOCIATED WITH A SWALE.
 - SEDIMENT WILL BE REMOVED FROM BEHIND THE SEDIMENT FENCE WHEN IT BECOMES HALF FILLED. THE SEDIMENT FENCE WILL BE REPAIRED AS NECESSARY TO MAINTAIN A BARRIER. STAKES MUST BE STEEL. STAKE SPACING WILL BE 6 FEET MAX. WITH THE USE OF EXTRA STRENGTH FABRIC, WITHOUT WIRE BACKING. STAKE SPACING WILL BE 8 FEET MAX WHEN STANDARD STRENGTH FABRIC AND WIRE BACKING ARE USED. IF ROCK FILTERS ARE DESIGNED AT LOW POINTS IN THE SEDIMENT FENCE THE ROCK WILL BE REPAIRED OR REPLACED IF IT BECOMES HALF FULL OF SEDIMENT, NO LONGER DRAINS AS DESIGNED OR IS DAMAGED.
 - FAIRCLOTH SKIMMER TO BE ROUTINELY CHECKED FOR SEDIMENT ACCUMULATION, TRASH, AND DEBRIS CLOGGING THE WATER ENTRY ORIFICES. PULL SKIMMER TO SIDE OF BASIN AND HAND REMOVE SEDIMENT AND DEBRIS TO RESTORE FLOW TO ORIGINAL STATE.

- CONSTRUCTION SEQUENCE:**
- CONSTRUCTION OF SITE TO START WITH INSTALLATION OF CONSTRUCTION ENTRANCE AND SILT FENCE ALONG ALL LOCATIONS PER PLANS. UPON INSTALLATION OF SILT FENCE, TREES SHOULD BE REMOVED IN LOCATIONS AS NECESSARY. ALL SLOPED AREAS SHOULD BE SEED IN ACCORDANCE TO SPECIFICATIONS. SLOPE STABILIZATION IS WITHIN 7-14 CALENDAR DAYS OF ANY PHASE OF CONSTRUCTION. ALL OTHER AREAS MUST BE STABILIZED WITHIN 15 WORKING DAYS. CONTRACTOR TO FOLLOW NPDES STABILIZATION REQUIREMENTS PER TABLE ON THIS SHEET AS WELL. MOST STRINGENT REQUIREMENT TO BE MET.
 - GENERAL CLEARING AND GRADING OF THIS SITE WILL NOT BE DONE UNTIL THE TEMPORARY SILT FENCE & CONSTRUCTION ENTRANCE HAS BEEN INSTALLED.
 - NO CUT SLOPE OR FILL SLOPE SHALL EXCEED A RISE OR FALL OF ONE FOOT FOR EVERY RUN OF 3 FEET (1 VERTICAL TO 3 HORIZONTAL).
 - NO SEDIMENT WILL BE ALLOWED TO EXIT THE SITE. ALL EROSION SHALL BE CONTROLLED INCLUDING SIDE SLOPES DURING AND AFTER CONSTRUCTION. INSTALL PRIMARY EROSION CONTROL MEASURES BEFORE BEGINNING CONSTRUCTION INCLUDING BUT NOT LIMITED TO GRAVELED CONSTRUCTION ENTRANCE, SILT FENCE, TREE PROTECTION FENCE & SEDIMENT BASINS. INSTALL ALL SECONDARY EROSION CONTROL MEASURES, SUCH AS INLET PROTECTION AS SOON AS POSSIBLE AFTER BEGINNING CONSTRUCTION.
 - ALL EROSION CONTROL MEASURES TO BE INSPECTED AFTER EACH RAIN. SILT FENCE AND INLET PROTECTION TO BE CLEANED WHEN HALF FULL.
 - A 4" LAYER OF TOPSOIL SHALL BE APPLIED TO ALL NEW AREAS TO BE GRASSED.
 - MAINTAIN ALL EROSION CONTROL MEASURES UNTIL PROJECT IS COMPLETE.
 - MORE STRINGENT MEASURES MAY BE REQUIRED TO HALT EROSION IF THOSE ON THIS PLAN PROVE TO BE LESS EFFECTIVE.
 - REMOVE ALL TEMPORARY EROSION CONTROL MEASURES UPON COMPLETION OF CONSTRUCTION. ALL PERMANENT MEASURES SHALL BE WELL ESTABLISHED PRIOR TO PROJECT COMPLETION.

| SYMBOL | GROUND STABILIZATION CRITERIA | | |
|--------|--|-------------------------|--|
| | SITE AREA DESCRIPTION | STABILIZATION TIMEFRAME | STABILIZATION TIMEFRAME EXCEPTIONS |
| | * Perimeter dikes, swales, ditches and slopes | 7 Days | None |
| | * High Quality Water (HQW) 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 ft. in length. |
| | * All other areas with slopes flatter than 4:1 | 14 Days | None (except for perimeters & HQW Zones) |

NORTH CAROLINA TEMPORARY GRASSING DETAIL

| SEEDING MIXTURE SPECIES | APPLICATION RATE |
|---|-------------------------------|
| LATE WINTER & EARLY SPRING: Rye (grain) Annual Lespedeza (Kobe in Piedmont and Coastal Plain, Korean in Mountains) | 100 (lb/acre) 50 (lb/acre) |
| <i>Omit annual Lespedeza when duration of temporary cover is not to extend beyond June</i> | |
| SUMMER: German Millet In the Piedmont and Mountains, a small-stemmed sundagrass may be substituted at a rate of 50 (lb/acre) | 40 (lb/acre) |
| FALL: Rye (grain) | 120 (lb/acre) |

SEEDING DATES

- LATE WINTER & EARLY SPRING:**
Mountains - Above 2500 ft: Feb. 15-May 15
Piedmont - Jan. 1-May 1
Coastal Plain - Dec. 1-Apr. 15
- SUMMER:**
Mountains - May 15-Aug. 15
Piedmont - May 1-Aug. 15
Coastal Plain - Apr. 15-Aug. 15
- FALL:**
Mountains - Aug. 15-Dec. 15
Coastal Plain and Piedmont - Aug. 15-Dec. 30

SOIL AMENDMENTS:

Follow recommendations of soil tests or apply 2,000 lb/acre ground agricultural limestone and 750 lb/acre 10-10-10 fertilizer.

MULCH:

apply 4,000 lb/acre straw, anchor straw by tacking with asphalt, netting, or a mulch anchoring tool. A disk with blades set nearly straight can be used as a mulch anchoring tool.

MAINTENANCE:

Refertilize if growth is not fully adequate. reseed, refertilize and mulch immediately following erosion or other damage.

NORTH CAROLINA PERMANENT GRASSING DETAIL

| SEEDING MIXTURE SPECIES | APPLICATION RATE |
|---|--|
| FALL & WINTER: Tall Fescue (blend of two or three improved varieties) Rye (grain) | 200 (lb/acre) 25 (lb/acre) |
| SPRING & SUMMER: Pensacola Bahiagrass Sericea Lespedeza Common Bermudagrass German Millet Tall Fescue | 50 (lb/acre) 30 (lb/acre) 10 (lb/acre) 10 (lb/acre) 50 (lb/acre) |

SEEDING DATES

- FALL & WINTER:**
January - April
August - December

SOIL AMENDMENTS:

Apply lime and fertilizer according to soil tests, or apply 3,000-5,000 lb/acre ground agricultural limestone (use the lower rate on sandy soils) and 1,000 lb/acre 10-10-10 fertilizer.

MAINTENANCE:

Fertilize according to soil tests or apply 40 lb/acre nitrogen in January or february, 40 lb in September and 40 lb in November, from a 12-4-8, 16-4-8, or similar turf fertilizer. Avoid fertilizer applications during warm weather, as this increases stand losses to disease. Reseed, fertilize, and mulch damaged areas immediately. mow to a height of 2.5-3.5 inches as needed.

SPRING & SUMMER:

April 1 - July 15

SOIL AMENDMENTS:

Apply lime and fertilizer according to soil tests, or apply 3,000 lb/acre ground agriculture limestone and 500 lb/acre 10-10-10 fertilizer.

MAINTENANCE:

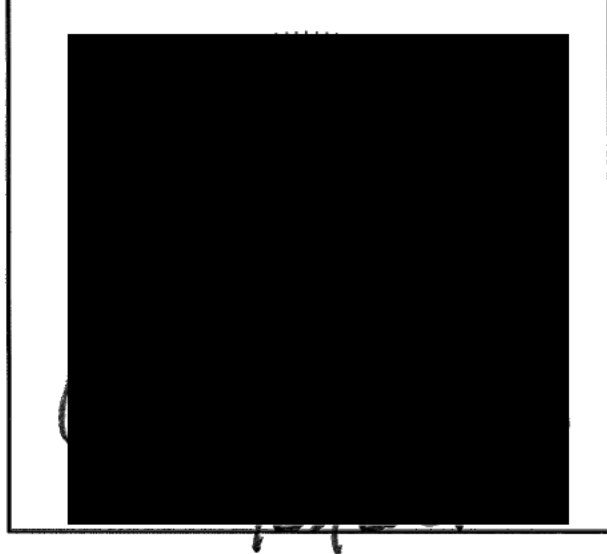
Refertilize the following april with 50 lb/acre nitrogen. Repeat as growth requires. may be mowed only once a year. Where a neat appearance is desired, omit sericea and mow as often as needed.

SEDIMENTATION & EROSION CONTROL PLAN

FOR

CAPE FEAR MOTO GROUP 2

WILMINGTON, NORTH CAROLINA

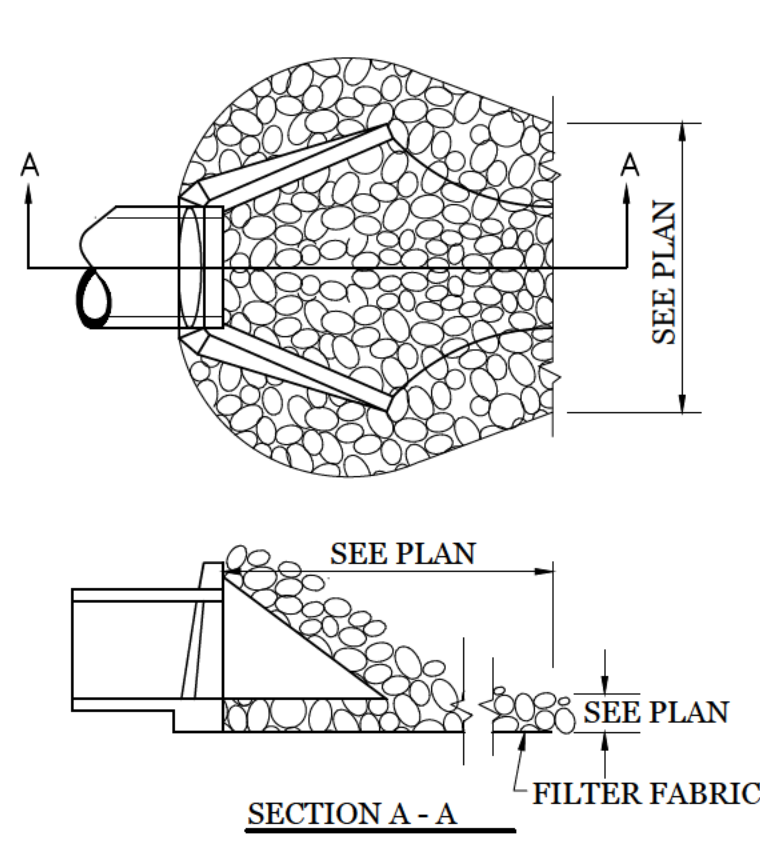


CLIENT INFORMATION:

CLOS PROPERTIES, LLC
SHANE HEFFERNAN
255 OLD EASTWOOD ROAD
WILMINGTON, NC 28403
(910) 202-4662

| | | | |
|-----------------|----------|-------------|-----------|
| DRAWN: | JAE | SHEET SIZE: | 24 X 36 |
| CHECKED: | CDC | DATE: | 9/23/2021 |
| APPROVED: | CDC | SCALE: | 1" = 40' |
| PROJECT NUMBER: | 2021-024 | | |

DRAWING NUMBER: **C-3** 4 OF 9



ENERGY DISSIPATOR

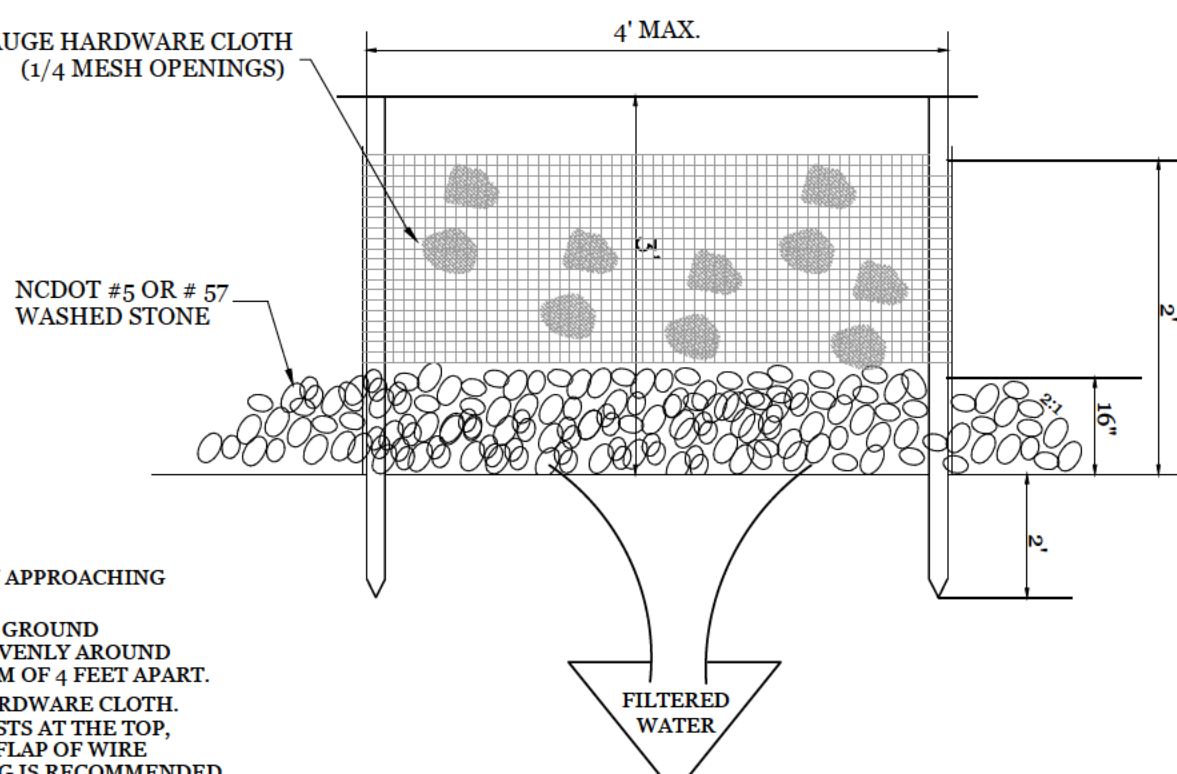
NTS

CONSTRUCTION SPECIFICATIONS:

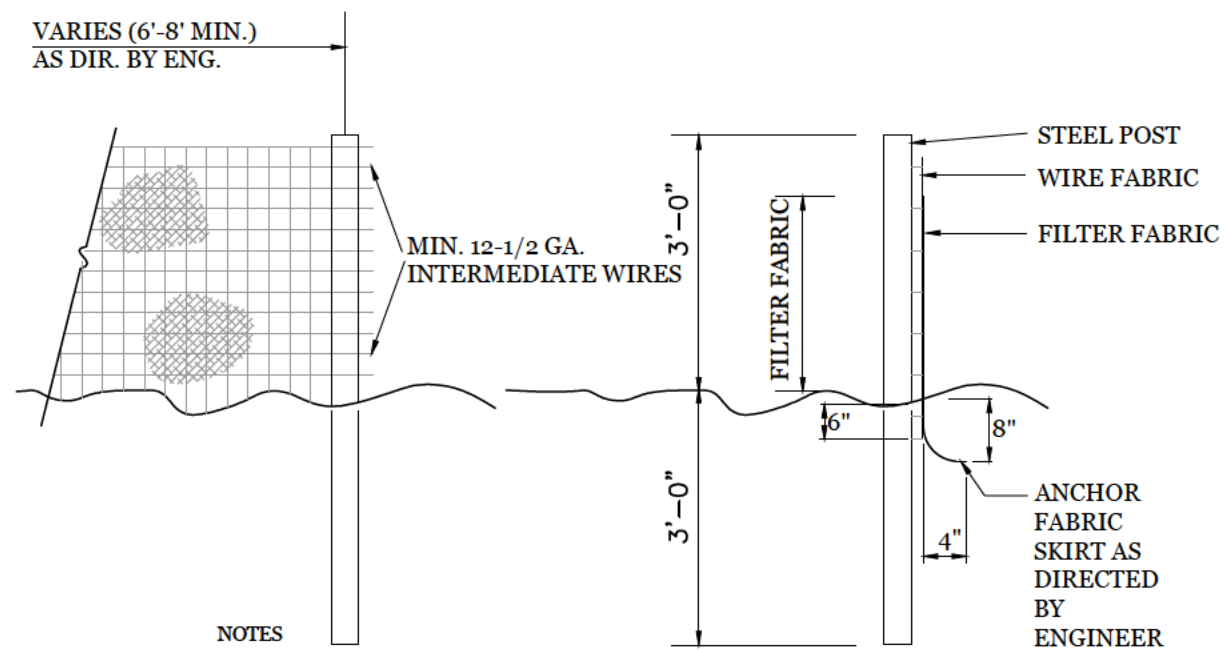
1. UNIFORMLY GRADE A SHALLOW DEPRESSION APPROACHING THE INLET.
2. DRIVE 5-FOOT STEEL POSTS 2 FEET INTO THE GROUND SURROUNDING THE INLET. SPACE POSTS EVENLY AROUND THE PERIMETER OF THE INLET, A MAXIMUM OF 4 FEET APART.
3. SURROUND THE POSTS WITH WIRE MESH HARDWARE CLOTH. SECURE THE WIRE MESH TO THE STEEL POSTS AT THE TOP, MIDDLE, AND BOTTOM. PLACING A 2-FOOT FLAP OF WIRE MESH UNDER THE GRAVEL FOR ANCHORING IS RECOMMENDED.
4. PLACE CLEAN GRAVEL (NCDOT #5 OR #57 STONE) ON A 2:1 SLOPE WITH A HEIGHT OF 16 INCHES AROUND THE WIRE, AND SMOOTH TO AN EVEN GRADE.
5. ONCE THE CONTRIBUTING DRAINAGE AREA HAS BEEN STABILIZED, REMOVE ACCUMULATED SEDIMENT, AND ESTABLISH FINAL GRADING ELEVATIONS.
6. COMPACT THE AREA PROPERLY AND STABILIZED IT WITH GROUNDCOVER.

HARDWARE CLOTH AND GRAVEL INLET PROTECTION

NTS



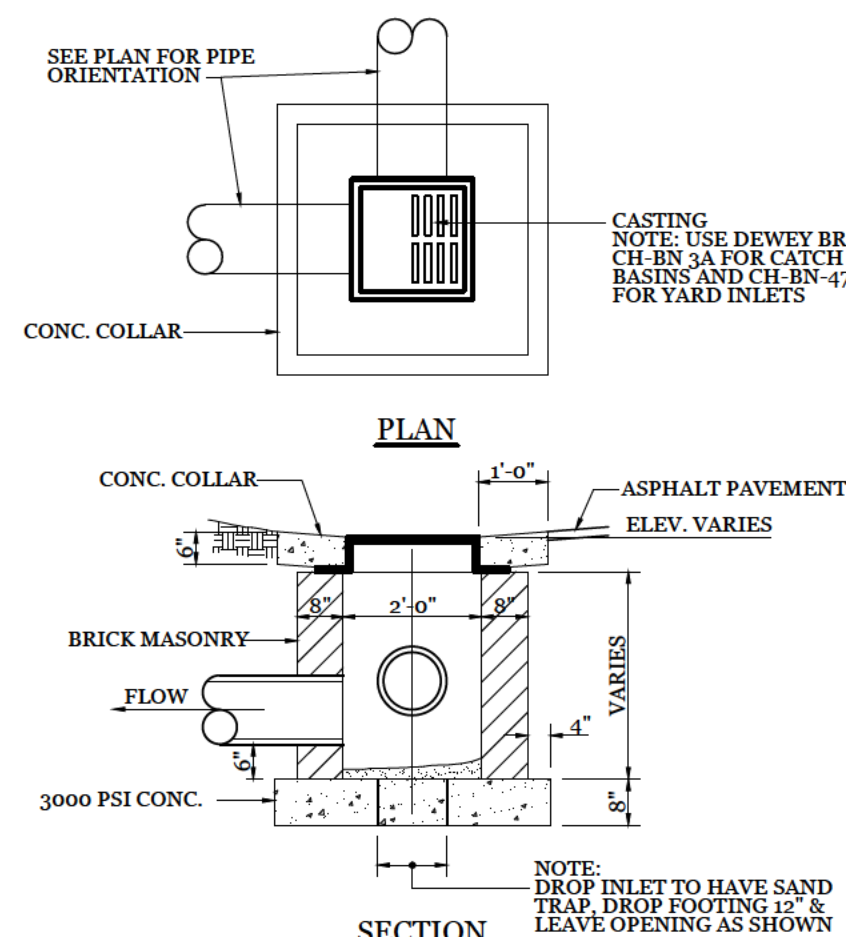
MAINTENANCE:
INSPECT INLETS AT LEAST WEEKLY AND AFTER EACH SIGNIFICANT (1/4 INCH OR GREATER) RAINFALL EVENT. CLEAR THE MESH WIRE OF ANY DEBRIS OR OTHER OBJECTS TO PROVIDE ADEQUATE FLOW FOR SUBSEQUENT RAINS. TAKE CARE NOT TO DAMAGE OR UNDERCUT THE WIRE MESH DURING SEDIMENT REMOVAL. REPLACE STONE AS NEEDED.



NOTES
1. FENCE FABRIC SHALL BE A MIN. OF 22" IN WIDTH AND SHALL HAVE A MIN. OF SIX LEX WIRES WITH 12" STAY SPACING.
2. FABRIC SHALL BE FOR EROSION CONTROL AND MIN. OF 36" IN WIDTH. FABRIC SHALL BE FASTENED ADEQUATELY TO THE WIRE FABRIC AS DIRECTED BY THE ENGINEER.
3. STEEL POST SHALL BE 5'-0" IN HEIGHT AND BE OF THE SELF-FASTENER STEEL ANGLE TYPE.

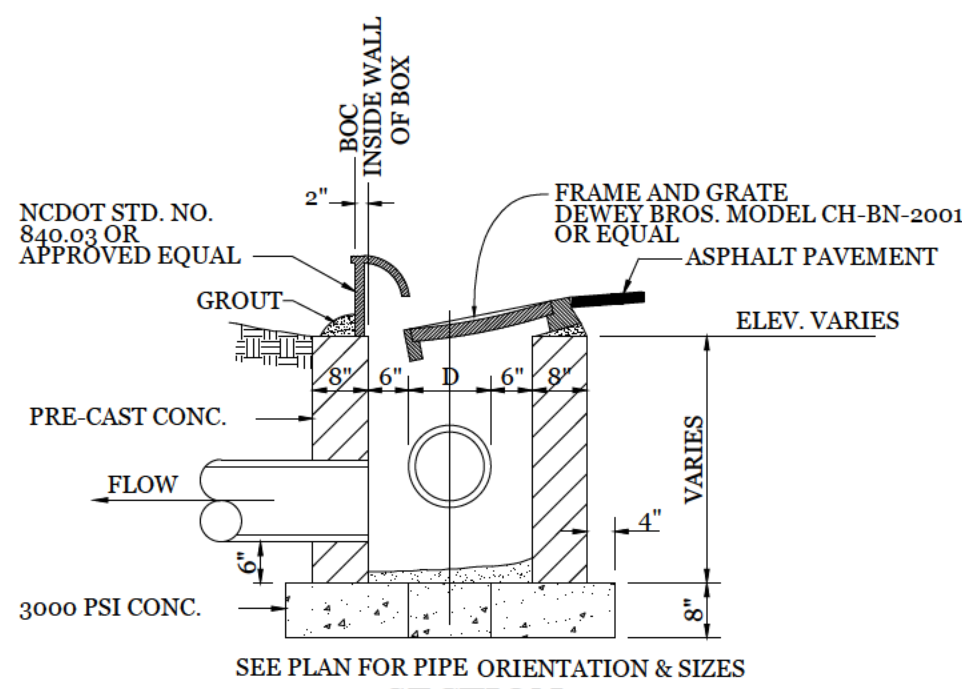
TEMPORARY SILT FENCE

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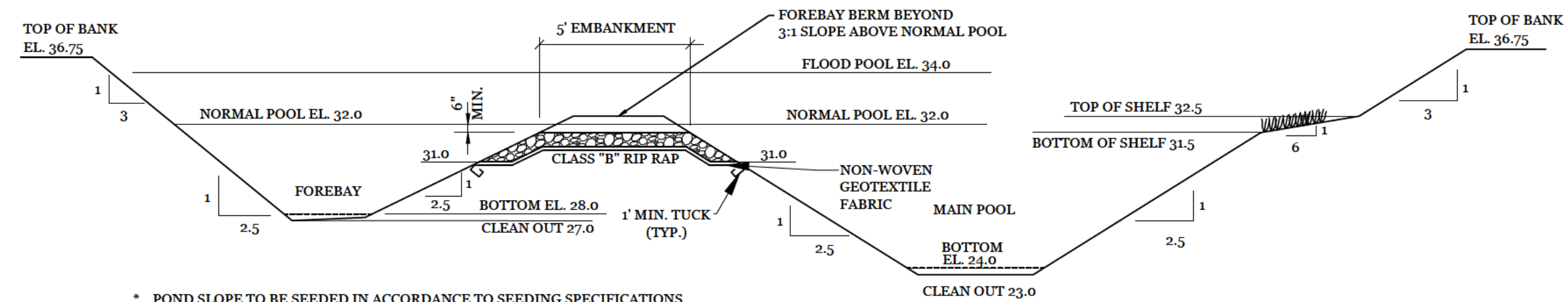
DROP INLET DETAIL

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CURB INLET DETAIL

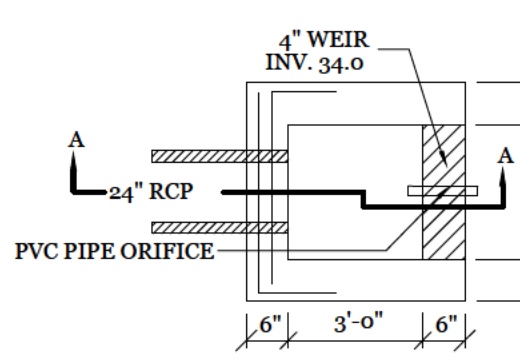
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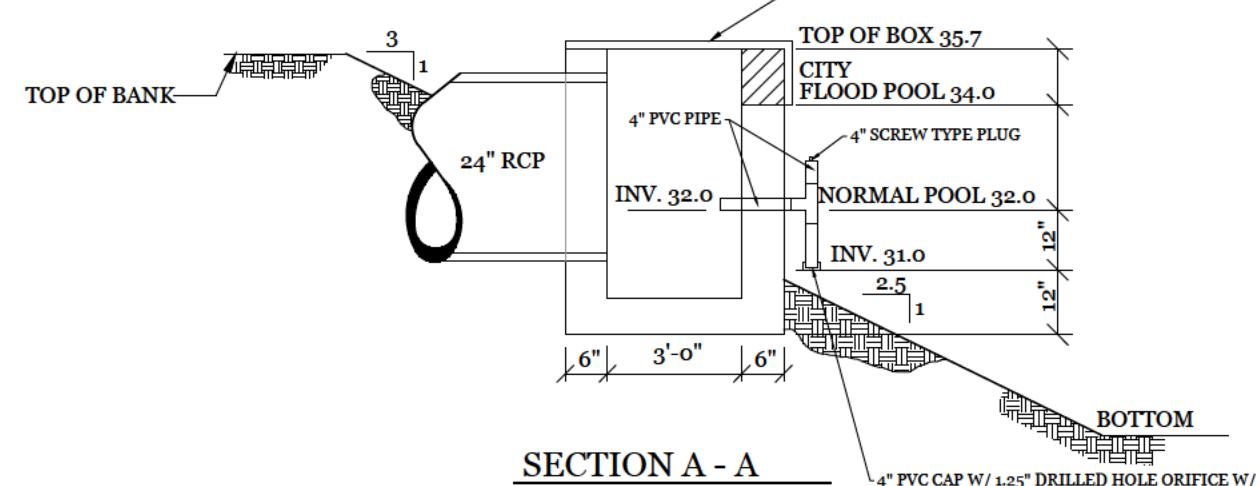
- POND SLOPE TO BE SEEDED IN ACCORDANCE TO SEEDING SPECIFICATIONS
- 6:1 VEGETATED SHELVE TO BE PLANTED WITH WETLAND SPECIES I.E. PICKEREL WEEB, DUCK POTATO, SWAMP ROSE, BLUE FLAG, & CARDINAL FLOWER. (OR ENGINEER APPROVED ALTERNATIVE)
- VEGETATED SHELVE SHALL BE PLANTED WITH PLUGS OR POTS AT 24" O.C. IN A CHECKERBOARD PATTERN.
- VEGETATED SHELVE PLANTING SHALL NOT BE PLANTED WITHIN 10' OF THE OUTLET STRUCTURES.
- A PUMP WILL BE PROVIDED DRAIN THE BASIN FOR MAINTENANCE AND EMERGENCIES
- ANY PORTION OF WET DETENTION BASIN USED FOR S&C DURING CONSTRUCTION MUST BE CLEANED OUT AND RETURNED TO DESIGN STATE BEFORE USE AS A WET DETENTION BASIN.

DETENTION POND & FOREBAY SECTION

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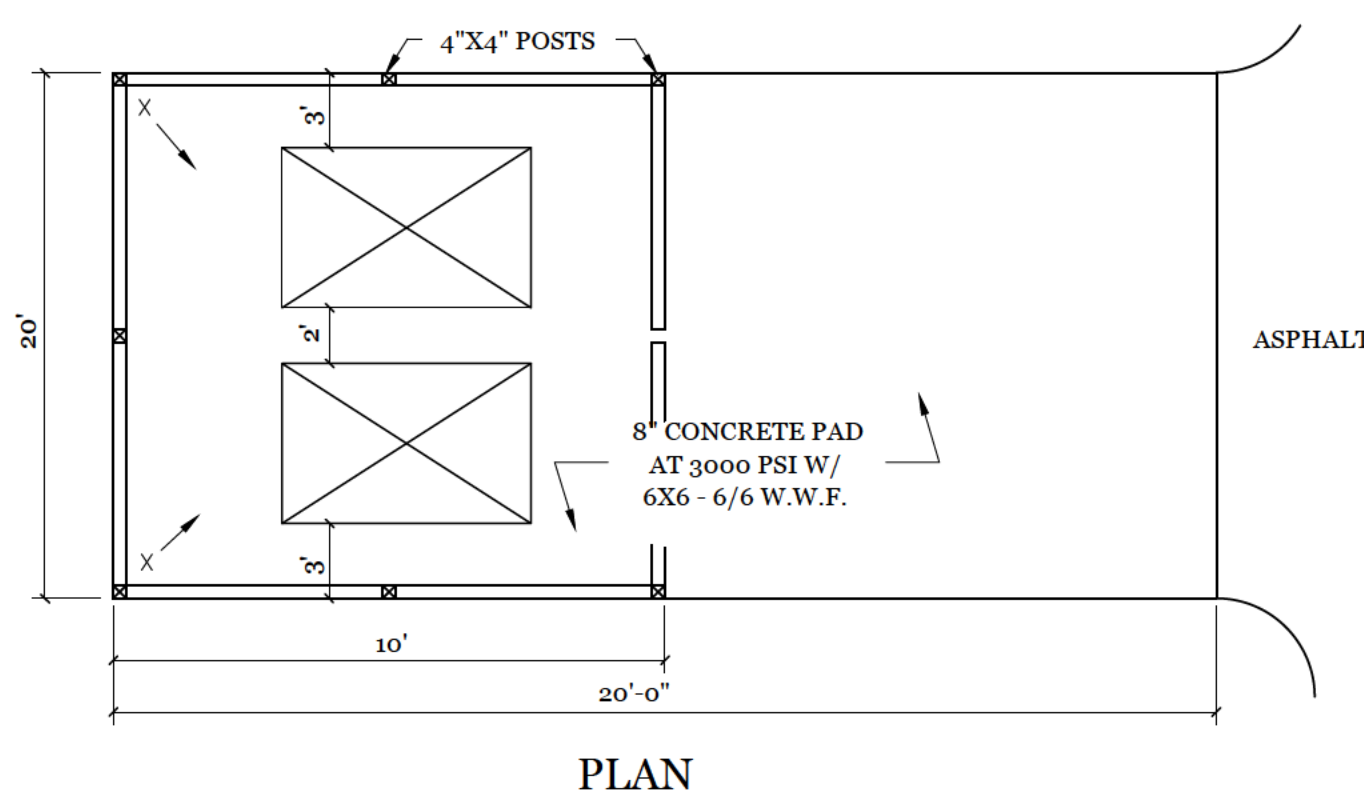


PLAN
GALV. BAR GRATING - 1" x 1/8" BEARING BARS (MAX OPENING 4"). FASTEN WITH TYPE J CLIPS. ATTACH TO 1-1/4" x 1-1/4" x 3/4" GALVANIZED ANGLE FRAME. MORTAR FRAME TO TOP OF OUTLET STRUCTURE & FACE OF WEIR.

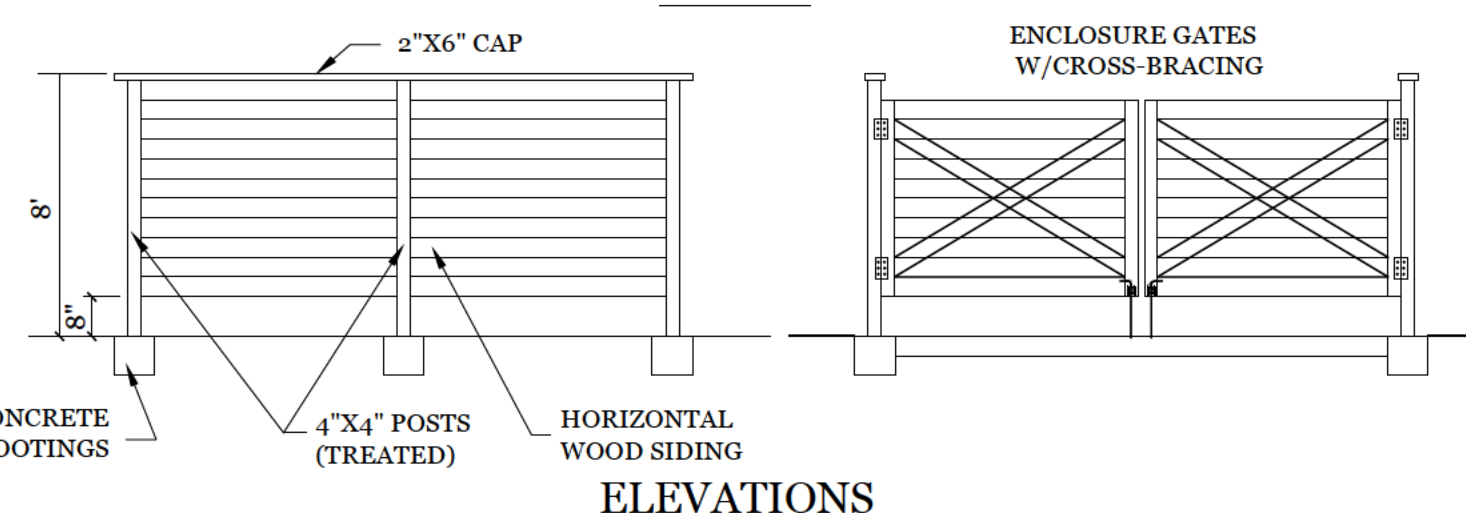


DETENTION POND OUTLET STRUCTURE

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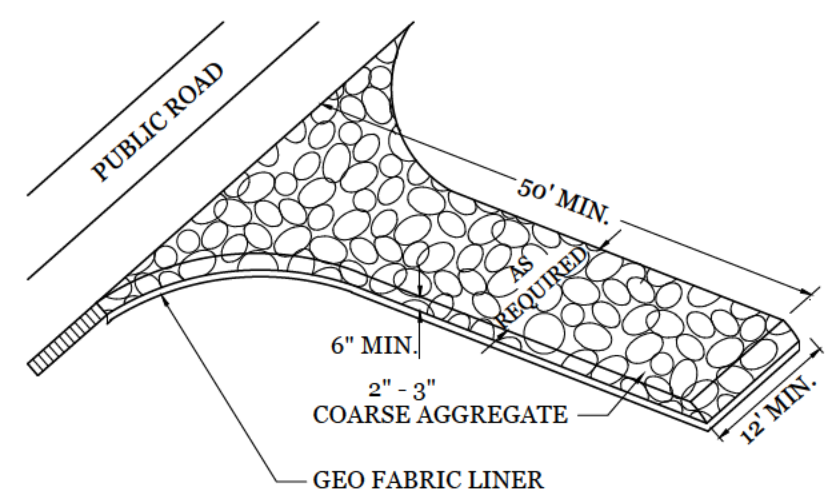
PLAN



ELEVATIONS

DUMPSTER PAD & ENCLOSURE DETAIL

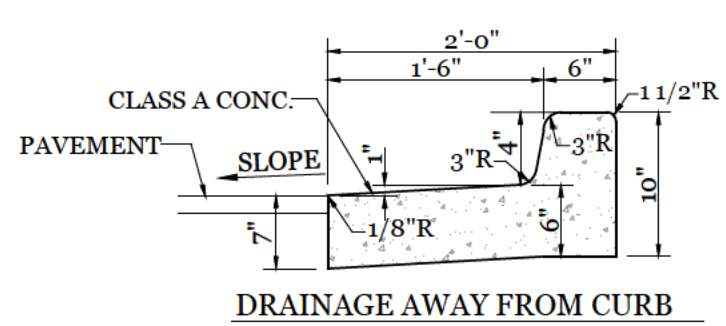
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NOTE:
CONSTRUCTION ENTRANCE TO BE 12' OR ENTIRE WIDTH OF ENTRANCE, WHICHEVER IS GREATER.

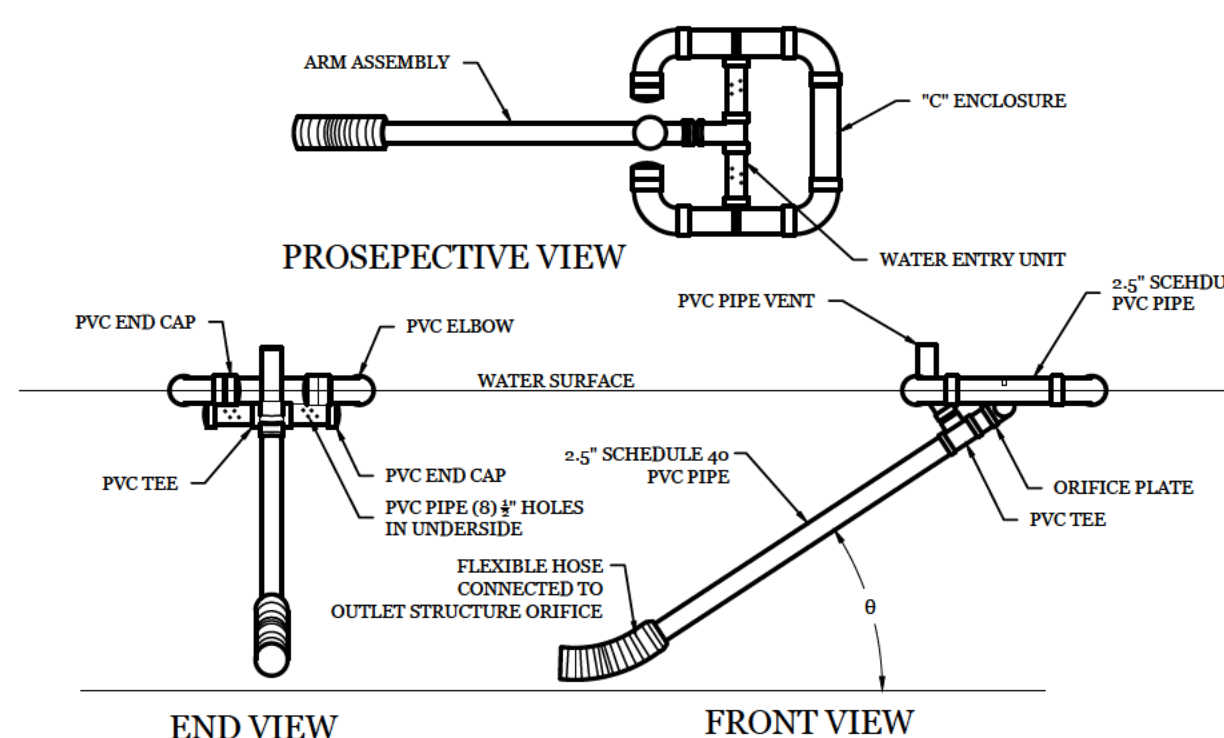
TEMPORARY GRAVEL CONSTRUCTION ENTRANCE

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4" HIGH CURB SECTION

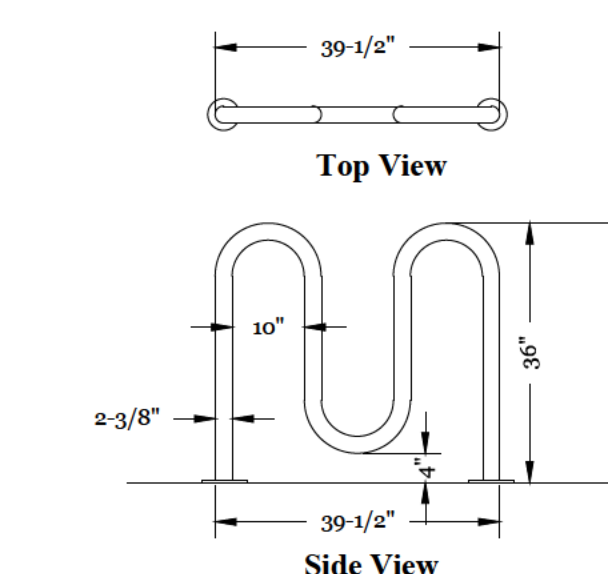
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FAIRCLOTH SKIMMER DETAIL

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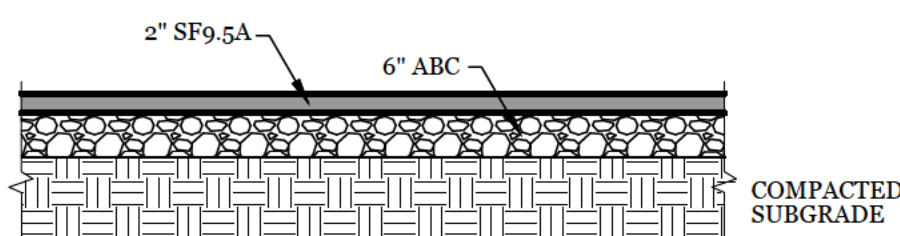
NOTES
1. SKIMMER TO BE USED IN WET PONDS AND REMOVED AFTER SITE IS PERMANENTLY STABLE.



WAVE STYLE BIKE RACK DETAIL

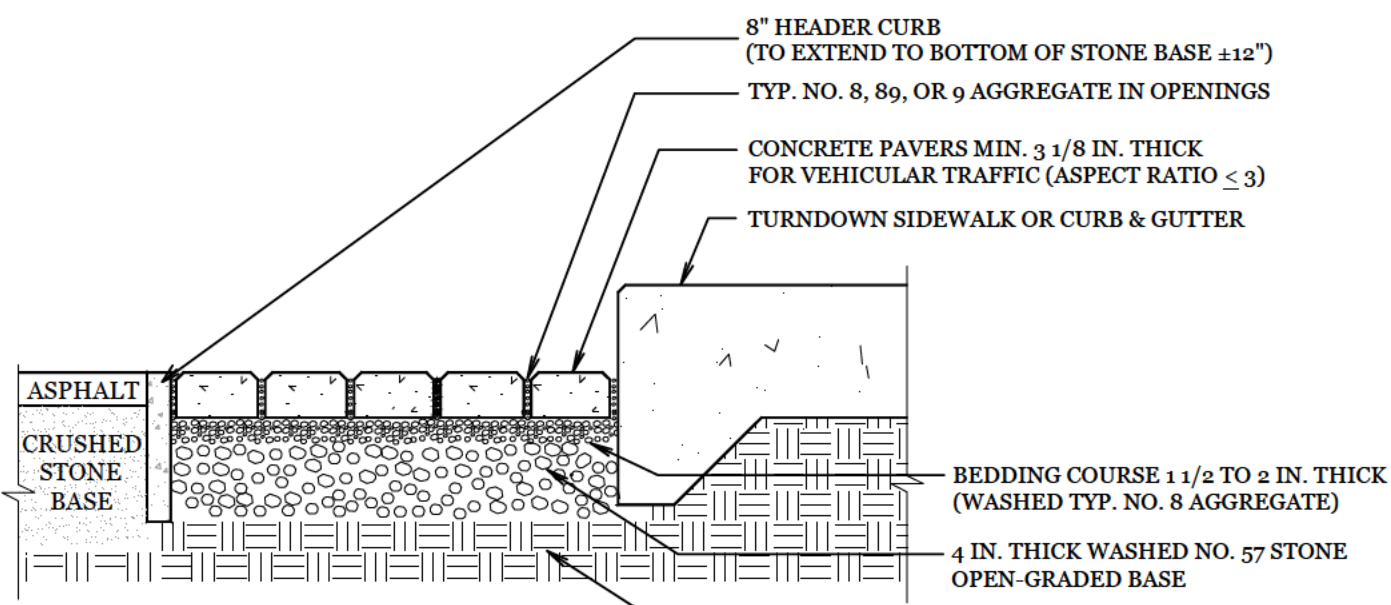
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NOTES:
1. TO BE PAINTED COLOR "RAL 9006"



PARKING ASPHALT SECTION

NTS



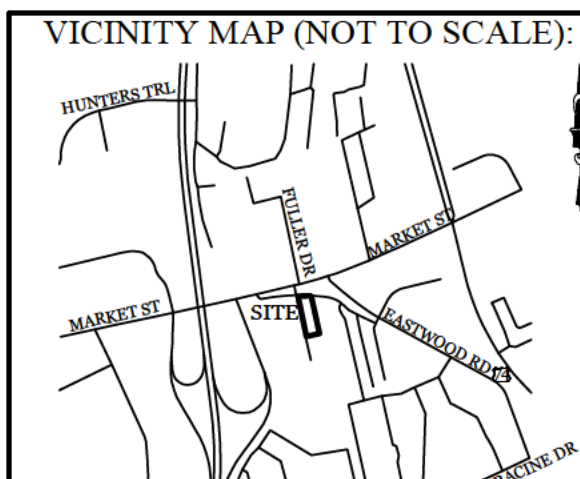
NOTES:
1. SUBGRADE MUST BE EITHER SCARIFIED, RIPPED, OR TRENCHED TO MAINTAIN THE PRE-CONSTRUCTION SUBGRADE INFILTRATION RATE.
2. GRADING FOR PERMEABLE PAVEMENT TO BE COMPLETED DURING DRY WEATHER.

PERMEABLE PAVER SECTION

NTS

SITE WORK NOTES:

1. THE CONTRACTOR SHALL VISIT THE SITE AND BECOME FAMILIAR WITH EXISTING CONDITIONS BOTH ON AND ADJACENT TO THE SITE.
2. CLEARING: CONTRACTOR SHALL REMOVE ALL TREES AND VEGETATION WITHIN LIMITS OF CONSTRUCTION UNLESS OTHERWISE DESIGNATED TO REMAIN.
3. GRUBBING AND STRIPPING: CONTRACTOR SHALL RAKE AND REMOVE ROOTS, STUMPS, VEGETATION, DEBRIS, EXISTING STRUCTURES ABOVE AND BELOW GRADE, ORGANIC MATERIAL OR ANY OTHER UNSUITABLE MATERIAL WITHIN LIMITS OF CONSTRUCTION.
4. MUCKING: CONTRACTOR SHALL COORDINATE WITH OWNER AND THEIR GEOTECHNICAL REPRESENTATIVE TO COORDINATE REMOVAL OF ANY SOFT AREAS.
5. DISPOSAL: CLEARED, GRUBBED, STRIPPED OR OTHER WASTE MATERIAL SHALL BE REMOVED FROM SITE AND DISPOSED OF IN A PROPERLY PERMITTED FACILITY.
6. FILL AND COMPACTION SHOULD COMPLY WITH GEOTECHNICAL RECOMMENDATIONS.
7. THE CONTRACTOR SHALL NOTE THAT THE GRADING PLAN MAY NOT REPRESENT A BALANCED EARTHWORK CONDITION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CUT AND FILL QUANTITIES AND COMPLETE INSTALLATION TO SPECIFIED GRADES.
8. THE CONTRACTOR SHALL FURNISH SUITABLE BORROW MATERIAL FROM AN OFF-SITE PROPERLY PERMITTED FACILITY AS REQUIRED.
9. INFORMATION CONCERNING UNDERGROUND UTILITIES WAS OBTAINED FROM AVAILABLE RECORDS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE EXACT ELEVATIONS AND LOCATIONS OF ALL EXISTING UTILITIES AT ALL CROSSINGS PRIOR TO COMMENCING TRENCH EXCAVATION. IF ACTUAL CLEARANCES ARE LESS THAN INDICATED ON PLAN, THE CONTRACTOR SHALL CONTACT THE DESIGN ENGINEER BEFORE PROCEEDING WITH CONSTRUCTION. ANY CONDITION DISCOVERED OR EXISTING THAT WOULD NECESSITATE A MODIFICATION OF THESE PLANS SHALL BE BROUGHT TO THE ATTENTION OF THE DESIGN ENGINEER BEFORE PROCEEDING WITH CONSTRUCTION.
10. NO CONSTRUCTION IS TO BEGIN BEFORE LOCATION OF EXISTING UTILITIES HAS BEEN DETERMINED. CALL "NC ONE-CALL" AT LEAST 48 HOURS BEFORE COMMENCING CONSTRUCTION.
11. THE CONTRACTOR IS RESPONSIBLE FOR THE LOCATION AND PROTECTION OF ALL EXISTING UTILITIES DURING CONSTRUCTION. BEFORE COMMENCING ANY EXCAVATIONS INTENT TO EXCAVATE, IN WRITING, NOT LESS THAN 10 DAYS PRIOR TO EXCAVATING.
12. THE CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE DISCONNECTION/ RECONNECTION AND/OR THE RELOCATION OF ALL EXISTING UTILITIES WITH APPROPRIATE PERSONNEL.
13. CONTRACTOR SHALL ADJUST ALL MANHOLES, VALVE & CURB BOXES TO FINAL GRADE UPON COMPLETION OF ALL CONSTRUCTION. ANY BOXES DAMAGED OR OTHERWISE DISTURBED BY THE CONTRACTOR SHALL BE REPAIRED AT THE EXPENSE OF THE CONTRACTOR.
14. THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AT THE SITE. FURTHERMORE THE CONTRACTOR SHALL REPORT ALL DISCREPANCIES OR QUESTIONS TO THE ENGINEER PRIOR TO INSTALLATION.
15. THE CONTRACTOR SHALL PROVIDE ANY AND ALL LAYOUT REQUIRED TO CONSTRUCT HIS WORK UNLESS OTHERWISE DIRECTED BY OWNER.
16. ALL SERVICE CONNECTIONS SHALL BE INSTALLED TO MEET ALL LOCAL, STATE, AND CPPIA CODES. METERS, TAPS, MATERIALS, WORKMANSHIP AND ALL FEES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL COMPLY WITH ALL REQUIREMENTS.
17. ALL BACKFILL FROM UTILITY INSTALLATION MUST BE COMPACTED OR AMENDED TO PROVIDE TRAFFIC BEARING CAPACITY. GEOTECHNICAL ENGINEER TO BE CONSULTED AT CONTRACTORS COST AS NECESSARY.
18. ALL AREAS SHALL BE GRADED FOR POSITIVE DRAINAGE. CONTRACTOR SHALL REPORT ANY DISCREPANCIES TO THE ENGINEER PRIOR TO INSTALLATION. ALL AREAS SHALL BE SLOPED TO DRAIN AWAY FROM BUILDINGS AT ALL TIMES.
19. CONCRETE FOR WALKS, CURBS AND DRIVES SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI @ 28 DAYS - AIR ENTRAINED.
20. FIELD TESTING SHALL BE DONE BY AN INDEPENDENT TESTING LABORATORY PAID FOR BY THE OWNER. FURTHER TESTING REQUIRED DUE TO A FAILED TEST WILL BE PAID FOR BY THE CONTRACTOR.
21. ALL SIDEWALKS SHALL BE FREE OF CRACKS, BREAKS, OR ANY OTHER DEFECT PRIOR TO RECEIVING A CERTIFICATE OF OCCUPANCY.

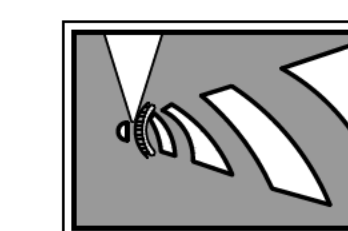


REVISIONS

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INTRACOASTAL ENGINEERING, PLLC

5725 Oleander Dr. Unit E-7
Wilmington, North Carolina 28403
Phone: 910.859.8983
Email: charlie@intracoastalengineering.com
License Number P-0662



FOR CAPE FEAR MOTO GROUP 2 WILMINGTON, NORTH CAROLINA



CLIENT INFORMATION:
CLOS PROPERTIES, LLC
SHANE HEFFERNAN
255 OLD EASTWOOD ROAD
WILMINGTON, NC 28403
(910) 202-4662

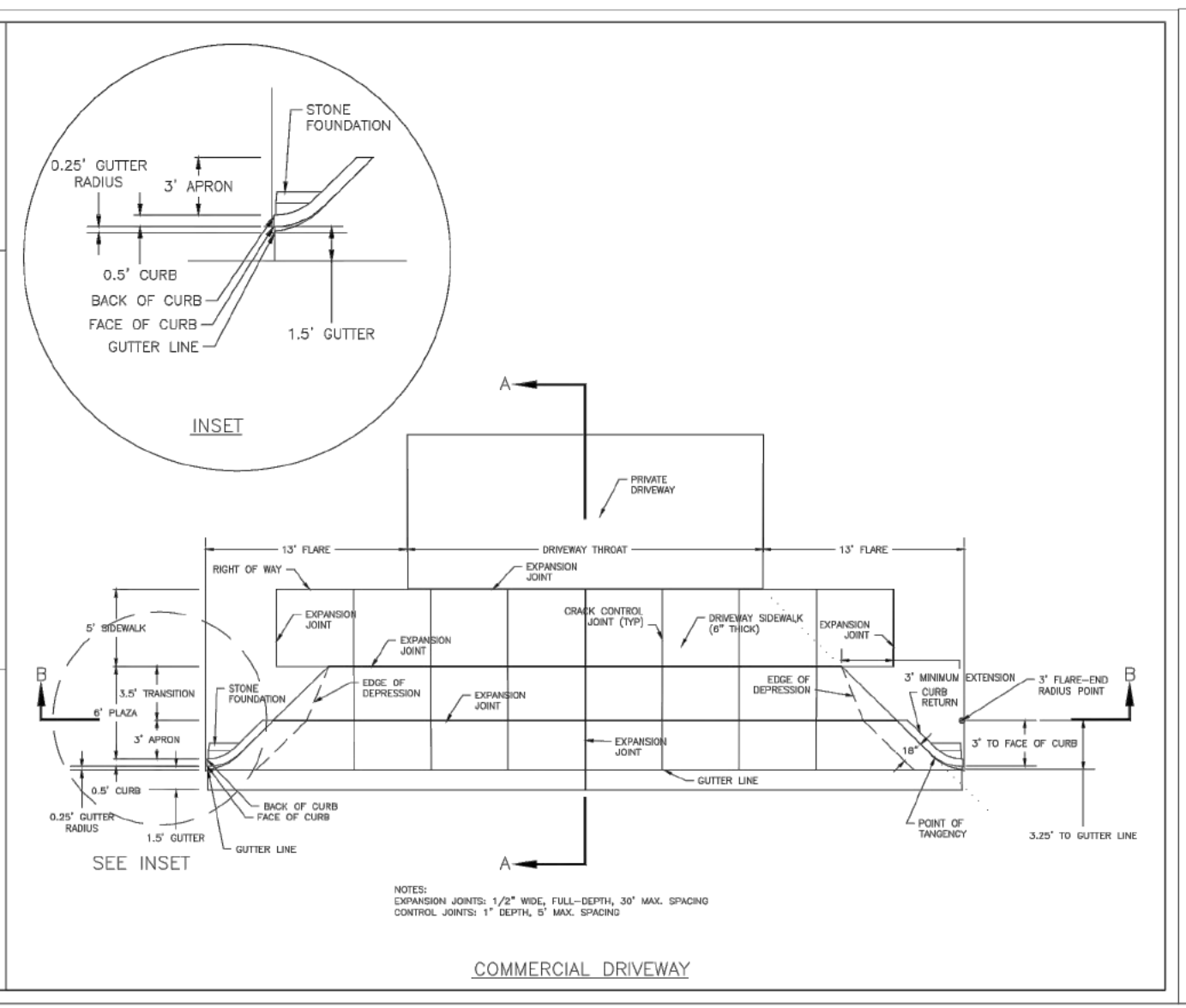
DRAWN: JAE **SHEET SIZE:** 24 X 36
CHECKED: CDC **DATE:** 9/23/2021
APPROVED: CDC **SCALE:** NTS
PROJECT NUMBER: 2021-024

DRAWING NUMBER: C-4 **5 OF 9**

DATE: JAN 1, 2011
 DRAWN BY: JSR
 CHECKED BY: DEC, P.E.
 SCALE: NOT TO SCALE

STANDARD DETAIL
COMMERCIAL DRIVEWAY PLAN
 1 OF 2

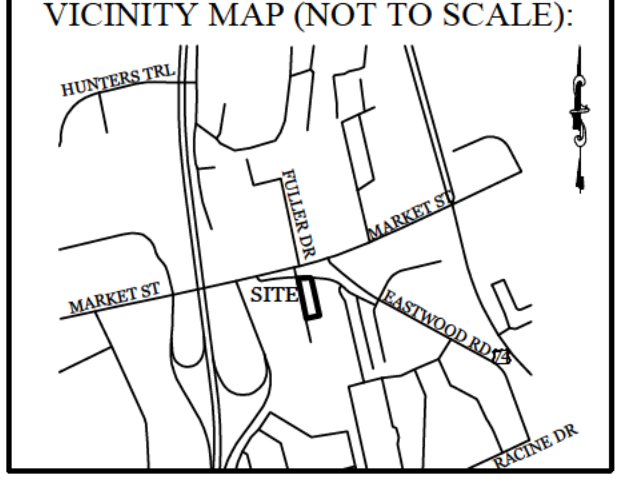
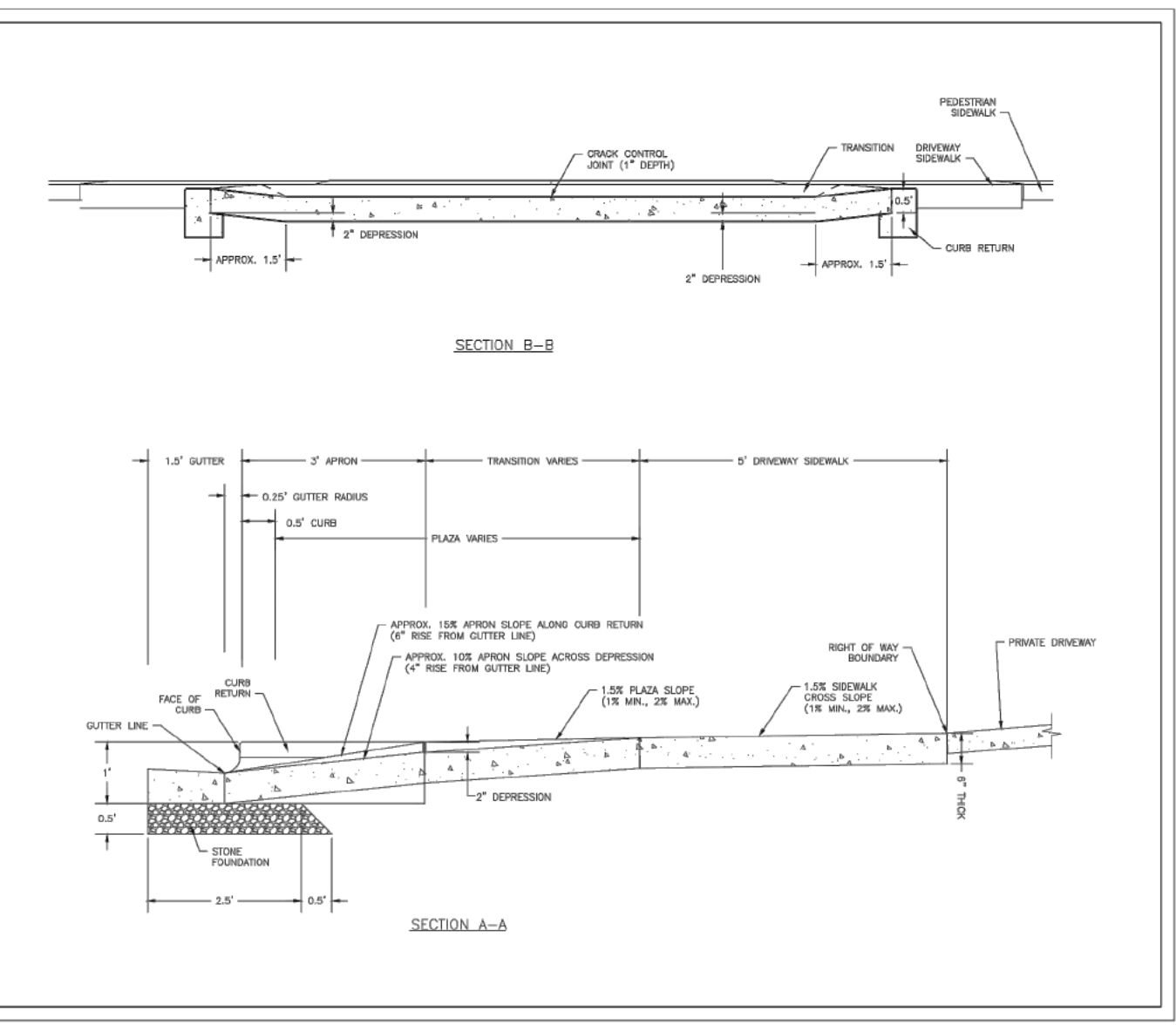
WILMINGTON
 CITY OF WILMINGTON ENGINEERING
 101 BOB ALLEN BLVD., SUITE 200
 WILMINGTON, NC 28402
 (910) 341-7807
 SD 3-03.3



DATE: JAN 1, 2011
 DRAWN BY: JSR
 CHECKED BY: DEC, P.E.
 SCALE: NOT TO SCALE

STANDARD DETAIL
COMMERCIAL DRIVEWAY SECTIONS
 2 OF 2

WILMINGTON
 CITY OF WILMINGTON ENGINEERING
 101 BOB ALLEN BLVD., SUITE 200
 WILMINGTON, NC 28402
 (910) 341-7807
 SD 3-03.4



REVISIONS

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INTRACOASTAL ENGINEERING, PLLC

5725 Oleander Dr. Unit E-7
 Wilmington, North Carolina 28403
 Phone: 910.859.8983
 Email: charlie@intracoastalengineering.com
 License Number P-0662

RESERVED PARKING
 NORTH CAROLINA R7-8a SIGN, A COMBINATION OF THE R7-8a SIGN AND THE NORTH CAROLINA R7-8d PENALTY SIGN

MAXIMUM PENALTY \$250
 NORTH CAROLINA PENALTY R7-8d SIGN

R7-8e Signage
 EITHER THE COMBINATION OF THE R7-8a AND R7-8d SIGNS OR THE R7-8e SIGN CAN BE USED.

VAN ACCESSIBLE

FOR DESIGN OF ACCESSIBLE SIGNS, SEE THE FOLLOWING:
 • 2009 MUTCD OR LATEST EDITION,
 • 2004 EDITION OF THE STANDARD HIGHWAY SIGNS AND THE 2012 SUPPLEMENT OR LATEST EDITION,
 • NORTH CAROLINA 2009 SUPPLEMENT TO THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES OR LATEST EDITION
 NOTED DRAWING H-1-S FOR SIGNS SP00075, SP00076, AND SP00077.

WHERE VAN ACCESSIBLE PARKING IS PROVIDED, THE VAN ACCESSIBLE (R7-8e) SIGN SHALL BE MOUNTED BELOW THE OTHER ACCESSIBLE PARKING SIGNS.
 (2009 EDITION MUTCD SECTION 2B-47) R7-8e Signage Figure A1.3

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

STANDARD DETAIL
ACCESSIBLE PARKING SIGNS AND INSTALLATION DETAILS
 SHEET A1 OF 5

WILMINGTON
 CITY OF WILMINGTON ENGINEERING
 101 BOB ALLEN BLVD., SUITE 200
 WILMINGTON, NC 28402
 (910) 341-7807
 SD 3-03.5

RESERVED PARKING
 MAXIMUM PENALTY \$250
 VAN ACCESSIBLE

RESERVED PARKING
 MAXIMUM PENALTY \$250

VAN ACCESSIBLE

84" MINIMUM ABOVE THE GROUND SURFACE WHERE THE SIGNS ARE LOCATED ALONG AN ADJACENT SIDEWALK OR WITHIN A PEDESTRIAN AREA.

80" MINIMUM ABOVE THE GROUND SURFACE WHERE THE SIGNS ARE LOCATED ALONG AN ADJACENT SIDEWALK OR WITHIN A PEDESTRIAN AREA.

84" MINIMUM ABOVE THE GROUND SURFACE WHERE THE SIGNS ARE LOCATED ALONG AN ADJACENT SIDEWALK OR WITHIN A PEDESTRIAN AREA.

80" MINIMUM ABOVE THE GROUND SURFACE WHERE THE SIGNS ARE LOCATED ALONG AN ADJACENT SIDEWALK OR WITHIN A PEDESTRIAN AREA.

Signage Height Figure A2.1

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

STANDARD DETAIL
ACCESSIBLE PARKING SIGNS AND INSTALLATION DETAILS
 SHEET A2 OF 5

WILMINGTON
 CITY OF WILMINGTON ENGINEERING
 101 BOB ALLEN BLVD., SUITE 200
 WILMINGTON, NC 28402
 (910) 341-7807
 SD 3-03.6

VERTICAL CURB
 NEX TOP CAP
 STOP 2'-6"
 2" NEX POST (DECORATIVE)
 CONCRETE OR BRICK SURFACE
 7" MIN.
 NEX LOCKING WEDGE
 NEX POST BASE

NO CURB
 Chestnut St 9"
 8'-12" TYP.
 6" ANTI-SPIN BRACKET

SLOPE CURB
 4" MIN.
 2" U-CHANNEL
 7" MIN.

*DETAILS SHOW VARIOUS TYPES AND LOCATION, BUT NOT ALL COMBINATIONS.

DATE: NOVEMBER 2011
 DRAWN BY: JSR
 CHECKED BY: HDR, P.E.
 SCALE: NOT TO SCALE

STANDARD DETAIL
STREET SIGNS AND LOCATION

WILMINGTON
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 101 BOB ALLEN BLVD., SUITE 200
 WILMINGTON, NC 28402
 (910) 341-7807
 SD 15-03

STANDARD PARALLEL CROSSWALK
 18"
 10" TYP. - 6" MIN. W/ APPROVAL

SPECIAL EMPHASIS CROSSWALK
 10'

HIGH VISIBILITY CROSSWALK
 10'

STOP BAR ONLY

1-TYPICAL CROSSWALK DIMENSIONS ARE PROVIDED FOR REFERENCE. ALL APPLICATIONS SHALL CONSIDER PEDESTRIAN, BICYCLE AND TRAFFIC CONDITIONS AND ARE SUBJECT TO ADA GUIDELINES AND MATERIAL SPECIFICATIONS. LAYOUTS SHALL BE DIRECTED BY THE ENGINEER.
 2-GENERALLY, STANDARD PARALLEL CROSSWALKS TO BE USED AT SIGNALIZED INTERSECTIONS OR WHERE CROSSWALK TRAFFIC OR CONFLICT POINTS ARE AVERAGE. SPECIAL EMPHASIS CROSSWALKS AND HIGH VISIBILITY CROSSWALKS ARE NEEDED AT BUSY SIGNALIZED INTERSECTIONS AND WHERE BICYCLE AND PEDESTRIAN TRAFFIC REQUIRES INCREASED VISIBILITY.

DATE: FEBRUARY, 2012
 DRAWN BY: JSR
 CHECKED BY: HDR, P.E.
 SCALE: NOT TO SCALE

STANDARD DETAIL
CROSSWALK PAVEMENT MARKINGS

WILMINGTON
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 101 BOB ALLEN BLVD., SUITE 200
 WILMINGTON, NC 28402
 (910) 341-7807
 SD 11-11

WHEELCHAIR RAMPS ADJACENT TO PLAZA

WHEELCHAIR RAMPS WITH FLARE ADJACENT TO SIDEWALK

SPECIAL EMPHASIS CROSSWALK

DIAGONAL WHEELCHAIR RAMP ADJACENT TO PLAZA

DIAGONAL WHEELCHAIR RAMP WITH FLARE ADJACENT TO SIDEWALK

NOTES:
 1. RAMPS AT MARKED CROSSINGS MUST BE WHOLLY CONTAINED WITHIN THE MARKINGS.
 2. RAMPS AND LANDINGS MUST MEET CURRENT ACCESSIBILITY STANDARDS.

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

STANDARD DETAIL
INTERSECTION LAYOUT

WILMINGTON
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 101 BOB ALLEN BLVD., SUITE 200
 WILMINGTON, NC 28402
 (910) 341-7807
 SD 3-09

SECTION A-A
 1.54:0.5%
 1.0-8.3% (30' MAX RISE)
 MIN. LANDING WIDTH = RAMP WIDTH
 MAX. SLOPE 2% IN ANY DIRECTION

SECTION B-B
 1.6-2.4" (TYP.)
 0.2"
 TRUNCATED DOMES
 BASE DIAMETER 0.9-1.4"
 TOP DIAMETER 50-60% OF BASE (TYP.)

WARNING DOME NOTES:
 1. USE CONTRASTING COLORS, RED OR BLACK ON WHITE PAVEMENT.
 2. USE CAST IN PLACE PAVERS FOR NEW CONSTRUCTION.
 3. RUBBER MATS ARE PERMITTED FOR RETROFITS.
 4. LANDING AND RAMP WIDTH MAY BE REDUCED TO 3' WHERE SPACE IS LIMITED AND DESIGN IS APPROVED BY THE CITY ENGINEER.

DATE: DECEMBER, 2010
 DRAWN BY: PBJSR
 CHECKED BY: DEC
 SCALE: NOT TO SCALE

STANDARD DETAIL
PERPENDICULAR CURB RAMP ADJACENT TO WALKING SURFACE

WILMINGTON
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 SD 3-07

VERTICAL CURB AND GUTTER
 1/2" FILLED EXPANSION JOINT
 CONTRACTION JOINT (1/4" X 1" DEEP SCORE)

SLOPE CURB

MEDIAN VERTICAL CURB AND GUTTER

VERTICAL CURB

GRANITE CURB

VALLEY CURB

HEADER CURB

NOTES:
 1. EXPANSION JOINT MATERIAL TO COMPLY WITH CURRENT MUTCD STANDARDS.
 2. 5/8" 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

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

STANDARD DETAIL
CURBING

WILMINGTON
 CITY OF WILMINGTON ENGINEERING
 101 BOB ALLEN BLVD., SUITE 200
 WILMINGTON, NC 28402
 (910) 341-7807
 SD 3-11

SIGNS

- All signs shall meet the requirements of MUTCD and City Traffic Engineering in effect at the time of construction.
- All Traffic Control Signs including multi-use paths shall be fabricated with 0.080 inch aluminum blanks using high intensity prismatic reflective sheeting Type IV or better. STOP signs shall be a minimum of 30"x30".
- SPECIAL DESIGNATION signs by location and type shall adhere to City of Wilmington signage plan (i.e. downtown, historic, cross-city trail, parks, riverfront, scenic by-way, parking, etc.) and all associated policies.
- POST MOUNTED STREET NAME SIGNS shall be fabricated with 9" extruded aluminum street name sign blanks using a standard cut-out. Minimum sign length is 18" long and increasing in 6" increments to 54" maximum as dictated by the number of letters in the name. The color scheme shall be white letters on a green background without a border. Generally, in the downtown and historic areas or as designated in the City of Wilmington signage plan the background shall be blue and contain a topper.
- Decorative sign posts shall consist of the NEX sign support system, 2" octagonal tube, 14 gauge, powder coated glossy black and include cap, post, base and wedge.
- All other sign posts shall be u-channel posts made of galvanized steel with 8' posts 2lbs/ft or 12' posts 3lbs/ft. Galvanized NEX post may be substituted with approval from the City Signs and Markings Engineer.
- OVERHEAD STREET NAME SIGNS shall be fabricated with 0.080 inch aluminum flat sign blanks 18" in height using a standard cut-out. Sign length will be dictated by the number of letters in the name. For mast-arm type traffic signal supports and other overhead support systems refer to the design plans for maximum sign length.
- All sign lettering, colors and fonts shall adhere to the MUTCD in effect at the time of construction. Fluorescent Yellow-Green shall be used on signs. In place of Yellow, when listed as an optional color in the MUTCD. Generally, the font will be FHWA series fonts (Highway Gothic). Other font types require prior City Signs and Markings Engineer approval.

LOCATION

- Sign locations depend on the edge of road condition. Generally, signs shall be a minimum 2' from face of a vertical curb, 4' from front of slope face curb, and 9' from edge of pavement without curb. Signs shall not be located more than 12' from any of these locations.
- Sign posts installed in dirt shall be buried a minimum of 36". Octagonal posts shall utilize an anti-spin device, 6" in length minimum. Sign posts installed in concrete or brick shall utilize a base cast in concrete 24" x 12" diameter.
- Street name signs shall be installed 6'-6" from the ground to the bottom of the sign. Street name signs co-located with STOP signs shall be installed above the STOP sign. A 6" space shall be maintained between the STOP sign and a Street name sign that is parallel to the STOP sign face. All other signs should be mounted per MUTCD guidelines for Urban Areas.

DATE: NOVEMBER, 2011
 DRAWN BY: JSR
 CHECKED BY: HDR, P.E.
 SCALE: NOT TO SCALE

STANDARD DETAIL
STREET SIGNS AND LOCATION

WILMINGTON
 CITY OF WILMINGTON ENGINEERING
 101 BOB ALLEN BLVD., SUITE 200
 WILMINGTON, NC 28402
 (910) 341-7807
 SD 15-03

SECTION A-A
 30'
 5'
 CONTROL JOINT

SECTION B-B
 4"
 1 1/4"

NOTES:
 1. JOINT MATERIAL TO COMPLY WITH CURRENT MUTCD STANDARDS.
 2. SANITARY SEWER CLEAN-OUTS, WATER METERS, MANHOLES, AND VALVE LIDS TO BE LOCATED OUTSIDE SIDEWALK WHERE FEASIBLE.
 3. MINIMUM SIDEWALK WIDTH TO BE 6' MINIMUM IF PLACED AT BACK OF CURB.
 4. CONCRETE FOR ALL SIDEWALKS (EXCEPT ANY PORTION CONTAIN WITHIN A DRIVEWAY APRON) SHALL BE CLASS "A" - 3,000 PSI.
 5. MINIMUM REPLACEMENT FOR REPAIRS IS A 5' X 5' PANEL.
 6. 4" STONE BASE MAY BE REQUIRED FOR POOR SOIL CONDITIONS
 7. MINIMUM DEPTH FOR TUNNELING BELOW SIDEWALK IS 12"
 8. MAX ADJACENT GROUND SLOPE WITHOUT RAILING IS 2:1
 9. MIN GRADE FOR PROPER DRAINAGE IS 1% IN AT LEAST 1 DIRECTION. MAX CROSS SLOPE IS 2%. MAX LONGITUDINAL SLOPE IS 8.3%, 10% IF LIMITED BY EXISTING CONDITIONS, OR NO GREATER THAN THE SLOPE OF THE EXISTING ADJACENT ROAD.

DATE: OCTOBER, 2010
 DRAWN BY: PBJSR
 CHECKED BY: HDR, P.E.
 SCALE: NOT TO SCALE

STANDARD DETAIL
SIDEWALK

WILMINGTON
 CITY OF WILMINGTON ENGINEERING
 101 BOB ALLEN BLVD., SUITE 200
 WILMINGTON, NC 28402
 (910) 341-7807
 SD 3-10

CLUSTER SHRUBS FOR LOW MAINTENANCE

CLUSTER TREES TO ALLOW WEEDING EQUIPMENT ACCESSIBILITY

SEED OR SOIL SIDESLOPES

LANDSCAPE STRIP VARIES ACCORDING TO SIZE OF POND SEE PART D & G OF CHAPTER VI

VEGETATION MUST BE EVENLY DISTRIBUTED AT APPROXIMATELY 100' INTERVALS AROUND POND

NOTES:
 1. If possible, locate pond where vegetation exists.
 2. Suggest minimal clearing to conserve visual quality of site and minimize the additional of tree planting. An irregular shape provides a more natural appearance.
 3. Landscape strip shall be a maximum slope of 7:1 in order to plant vegetation.
 4. Provide a minimum of 3' inches of mulch around all vegetation.

DATE: JULY 2003
 DRAWN BY: JSR
 CHECKED BY: HDR, P.E.
 SCALE: NOT TO SCALE

STANDARD DETAIL
TYPICAL STORM WATER FACILITY LANDSCAPING PLAN

WILMINGTON
 CITY OF WILMINGTON ENGINEERING
 101 BOB ALLEN BLVD., SUITE 200
 WILMINGTON, NC 28402
 (910) 341-7807
 SD 15-16

DETAILS

FOR

CAPE FEAR MOTO GROUP 2

WILMINGTON, NORTH CAROLINA

CLIENT INFORMATION:

CLOS PROPERTIES, LLC
 SHANE HEFFERNAN
 255 OLD EASTWOOD ROAD
 WILMINGTON, NC 28403
 (910) 202-4662

DATE: JULY 2003
 DRAWN BY: JSR
 CHECKED BY: HDR, P.E.
 SCALE: NOT TO SCALE

STANDARD DETAIL
PERPENDICULAR CURB RAMP ADJACENT TO WALKING SURFACE

WILMINGTON
 CITY OF WILMINGTON ENGINEERING
 101 BOB ALLEN BLVD., SUITE 200
 WILMINGTON, NC 28402
 (910) 341-7807
 SD 3-07

DRAWN: JAE SHEET SIZE: 24 X 36
 CHECKED: CDC DATE: 9/23/2021
 APPROVED: CDC SCALE: NTS
 PROJECT NUMBER: 2021-024

DRAWING NUMBER: **C-5** 6 OF 9

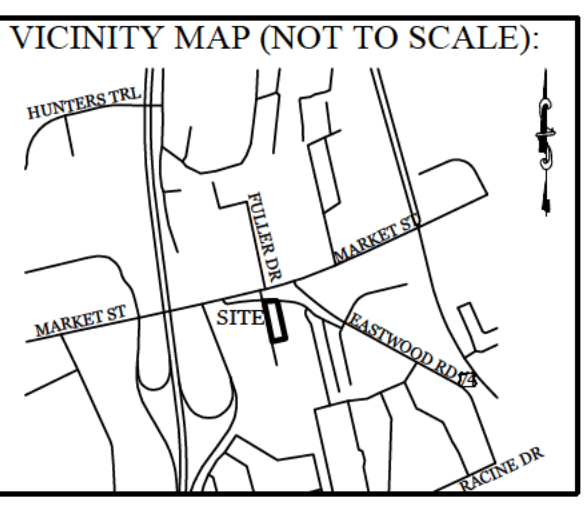
SITE DATA

PARCEL ID: R05009-006-007-000
 ZONING: RB-REGIONAL BUSINESS
 CAMA LAND USE CLASSIFICATION: URBAN
 PROJECT ADDRESS: 5 GARRIS RD. WILMINGTON, NC 28403
 CURRENT OWNERS: CLOS PROPERTIES LLC 20 OLD EASTWOOD RD. WILMINGTON, NC 28403
 TOTAL ACREAGE IN PROJECT BOUNDARY: 95,463 S.F. (±2.19 AC.)

LANDSCAPE REQUIREMENTS:

| REQUIRED | PROVIDED | |
|--|----------------------|--------------------------------------|
| PARKING LOT INTERIOR SHADING: 30% CANOPY COVERAGE (41,840 SF) | 12,552 SF | 13,930 SF* |
| *INCLUDING (5) EXISTING OAKS RANGING BETWEEN 12"-18" DBH | | |
| STREETYARD: (OLD EASTWOOD RD.) (555.75' X 23) CANOPY TREES (3,894 / 600) SHRUBS (3,894 / 600 X 6) | 3,894 SF 6 39 | 4,000 SF 6 39 |
| STREETYARD: (GARRIS RD.) (639.17' X 12.5) CANOPY TREES (7,990 / 600) SHRUBS (7,990 / 600 X 6) | 7,990 SF 13 80 | 8,000 SF 13 (8 EXISTING) 80 |
| FOUNDATION PLANTINGS: (12% OF BLDG FACE ADJ. TO PARKING AREA) | | |
| NORTH FACE (1,900 SF X 12%) | 228 SF | 295 SF |
| SOUTH FACE (1,900 SF X 12%) | 228 SF | 352 SF |
| EAST FACE (4,150 SF X 12%) | 498 SF | 675 SF |
| WEST FACE (4,150 SF X 12%) | 498 SF | 590 SF |
| TREE REQUIREMENTS PER DISTURBED ACRE: 2.4 ACRES DISTURBED X 15 TREES= | 36 TREES | 57 TREES (34 PLANTED & 23 PRESERVED) |

- NOTE:**
- THIS WORK INCLUDES, BUT IS NOT LIMITED TO THE FURNISHING OF ALL LABOR, MATERIALS, EQUIPMENT, FINAL GRADING, SEEDING, SOIL AMENDMENTS, ETC. AS MAY BE REQUIRED FOR A COMPLETE INSTALLATION.
 - ALL PLANT MATERIALS SHALL BE INSTALLED USING GOOD HORTICULTURAL PRACTICES IN ACCORDANCE WITH THE PLANS AND DETAILS.
 - TREE LOCATIONS SHOWN ON PLAN MAY REQUIRE ADJUSTMENT IN THE FIELD. WHENEVER FEASIBLE, TREES SHOULD BE PLANTED A MINIMUM OF TEN (10) FEET FROM ALL UNDERGROUND UTILITIES, STREETLIGHTS, HYDRANTS, AND OUT OF DRAINAGE FLOW LINES. SHOULD THIS NOT BE POSSIBLE, CONTACT THE ENGINEER FOR DECISION ON PLACEMENT.
 - ALL TREES IN TURF AREAS SHALL HAVE 12" MIN. CLR. CIRCUMFERENCE AROUND THE TRUNK BASE. PROVIDE 2" MIN. THK. MULCH AT BASE OF TRUNK.
 - MATURE PLANTINGS SHALL NOT INTERFERE WITH UTILITIES AND TRAFFIC SIGHT LINES.
 - ALL LANDSCAPED ISLANDS AND BEDS TO BE STABILIZED WITH MIN. 3" LAYER OF HARDWOOD MULCH.
 - ALL AREAS OF STREETYARD OUTSIDE OF PLANTED BEDS TO BE SODDED TO MATCH GRASS VARIETY WITHIN THE STREETYARD OF ADJACENT LANDROVER/JAGUAR DEALERSHIP.
 - 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.
 - TREE PROTECTION SIGNAGE SHALL BE ADDED ALONG THE LIMITS OF DISTURBANCE ADJACENT TO TREES EVERY 100' TO PROTECT TREES ADJACENT TO THE CONSTRUCTION SITE.
 - OWNER HAS PROVIDED A PAYMENT IN LIEU FOR THE REQUIRED TREE MITIGATION.



REVISIONS

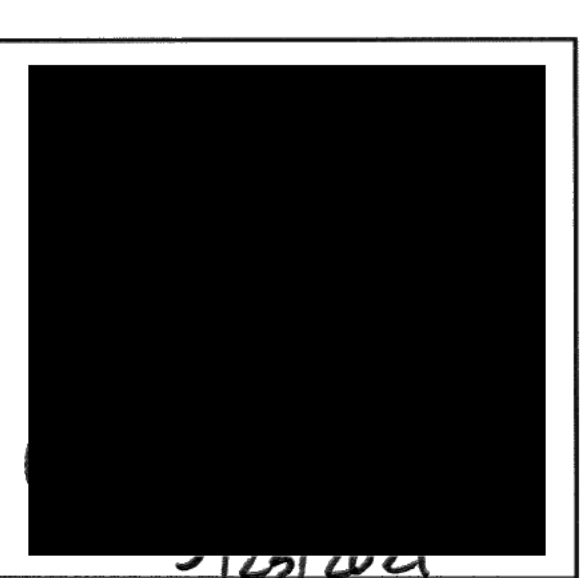
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INTRACOASTAL ENGINEERING, PLLC

5725 Oleander Dr. Unit E-7
 Wilmington, North Carolina 28403
 Phone: 910.859.8983
 Email: charlie@intracoastalengineering.com
 License Number P-0662

LANDSCAPE PLAN

FOR
CAPE FEAR MOTO GROUP 2
 WILMINGTON, NORTH CAROLINA

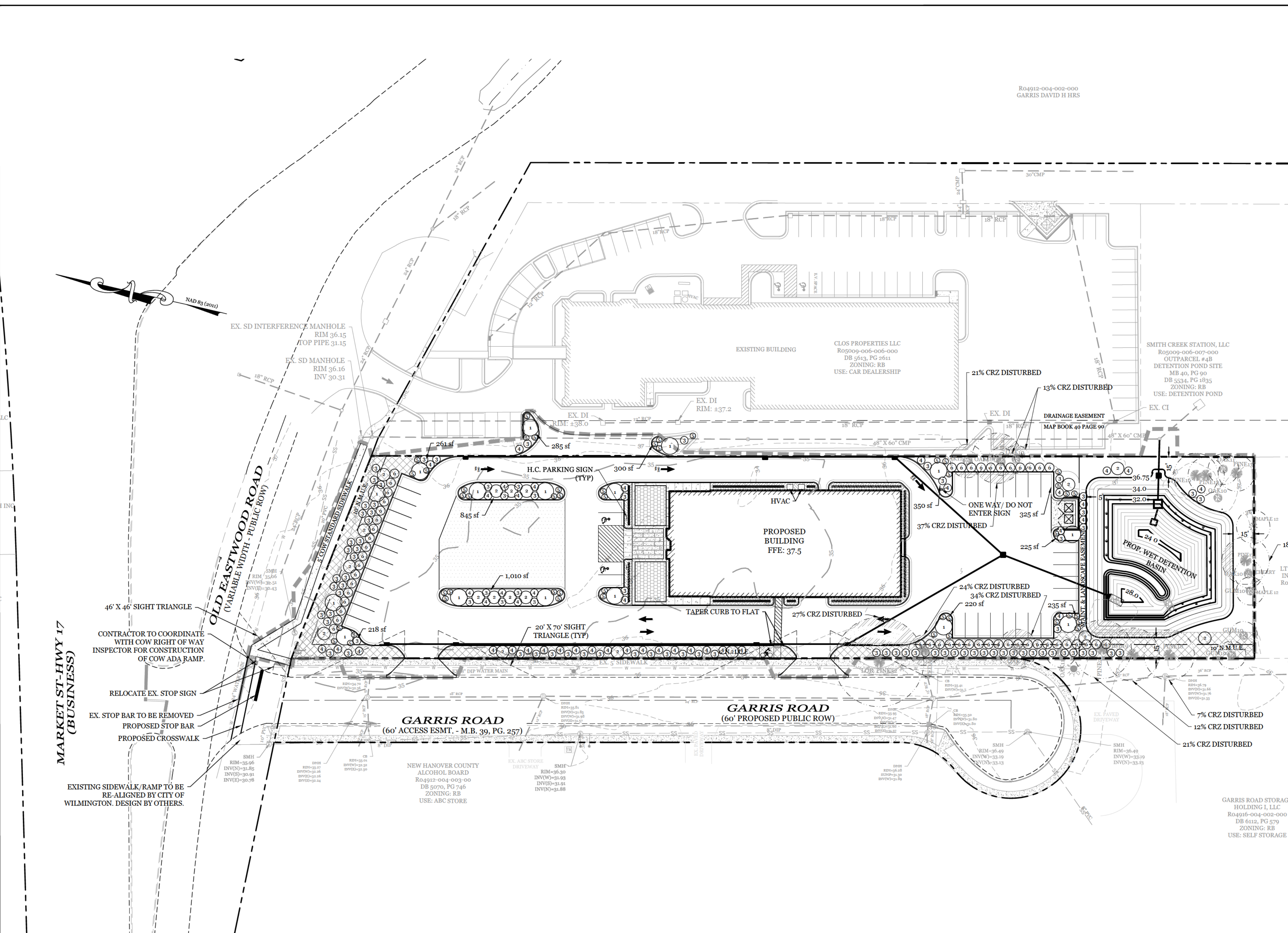
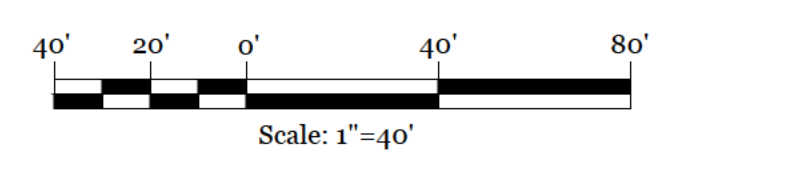
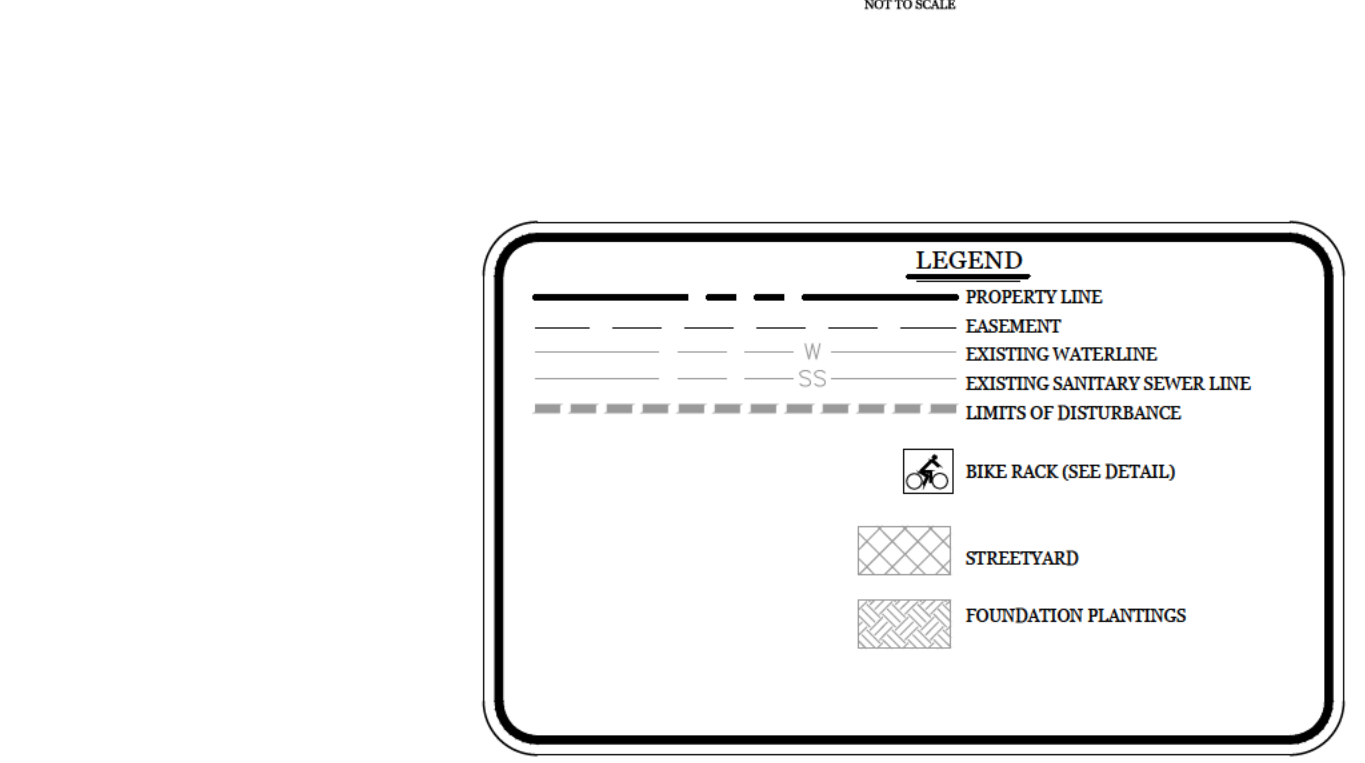
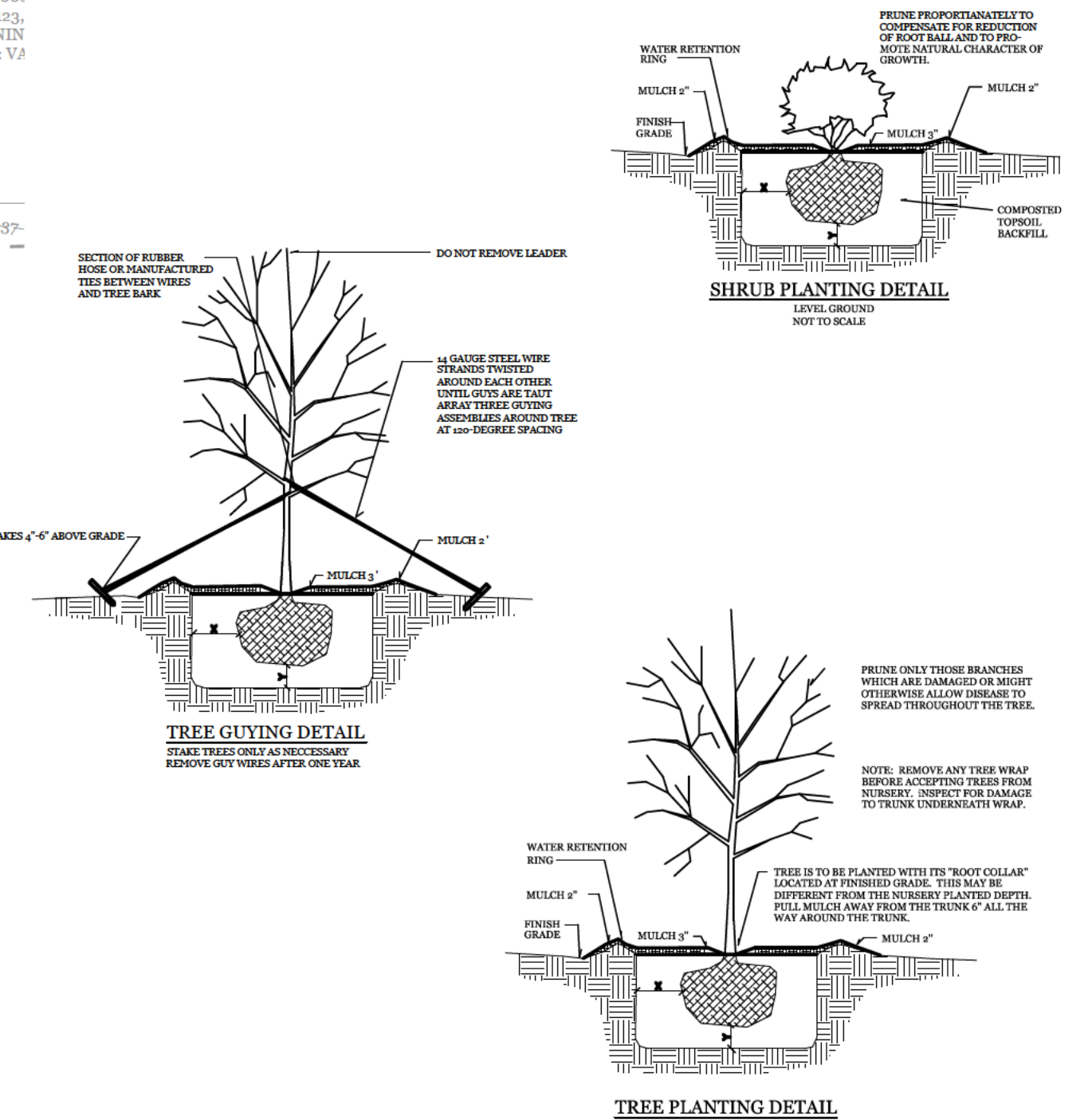


CLIENT INFORMATION:

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 SHANE HEFFERNAN
 255 OLD EASTWOOD ROAD
 WILMINGTON, NC 28403
 (910) 202-4662

DRAWN: JAE SHEET SIZE: 24 X 36
 CHECKED: CDC DATE: 9/23/2021
 APPROVED: CDC SCALE: 1" = 40'
 PROJECT NUMBER: 2021-024

DRAWING NUMBER: **L-1** 9 OF 9



PROPOSED LANDSCAPE PLANT LIST

| SYMBOL | QTY | BOTANICAL NAME | COMMON NAME | TYPE | MIN. SIZE |
|--------|------------|------------------------|------------------------|--------------|--------------------------|
| 1 | 16 | QUERCUS VIRGINIANA | LIVE OAK | SHADE TREE | 2.5" CAL. |
| 2 | 18 | LAGERSTROEMIA INDICA | CRAPE MYRTLE | SHADE TREE | 2.5" CAL. |
| 3 | 85 | RAPHIOLEPIS INDICA | WHITE INDIAN HAWTHORNE | SHRUB | 1 GAL. (12" MIN. HEIGHT) |
| 4 | 40 | ABELIA X GRANDIFLORA | GLOSSY ABELIA | SHRUB | 1 GAL. (12" MIN. HEIGHT) |
| 5 | 48 | JUNIPERUS HORIZONTALIS | CREeping JUNIPER | GROUND COVER | 1 GAL. |
| — | CONTINUOUS | BUXUS SEMPERVIRENS | BOXWOOD | SHRUB | 1 GAL. (12" MIN. HEIGHT) |
| 6 | 59 | ABELIA X GRANDIFLORA | GLOSSY ABELIA | SHRUB | 5 GAL. (3" MIN. HEIGHT) |

CREDITS FOR PRESERVED TREES

| QTY | SIZE | TYPE | DBH | TOTAL DBH |
|--|------|-------|-----|-----------|
| 4 | 10" | OAK | 10 | 40 |
| 2 | 11" | OAK | 11 | 22 |
| 1 | 12" | OAK | 12 | 12 |
| 1 | 14" | OAK | 14 | 14 |
| 1 | 18" | OAK | 18 | 18 |
| 3 | 10" | GUM | 10 | 30 |
| 2 | 12" | MAPLE | 12 | 24 |
| 2 | 11" | CEDAR | 11 | 22 |
| 2 | 13" | PINE | 13 | 26 |
| 1 | 16" | PINE | 16 | 16 |
| 1 | 17" | PINE | 17 | 17 |
| 1 | 18" | PINE | 18 | 18 |
| 1 | 19" | PINE | 19 | 19 |
| 1 | 21" | PINE | 21 | 21 |
| TOTAL CREDITS FOR PRESERVED TREES | | | | 50 |

205 TREES REQUIRED FOR MITIGATION - 50 TREE CREDITS = 155 TREES REQUIRED FOR MITIGATION