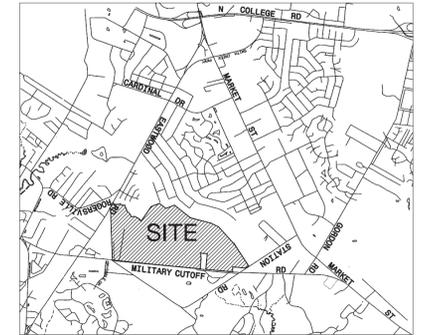


GENERAL NOTE:

Contractors shall furnish to the Prime Contractor a reproducible copy of the drawings with all changes and deviations from the plans outlined in red and noted "As-Built" on a weekly basis. The drawings shall be signed and dated by a registered Land Surveyor and an official of the contracting company and delivered to the Prime Contractor to be held in the job trailer at all times.

CONSTRUCTION DOCUMENTS FOR Mayfaire Town Center Phase III Buildings M, M2, L, Q, AND R Mayfaire Town Center - Wilmington, N.C.



VICINITY MAP NOT TO SCALE

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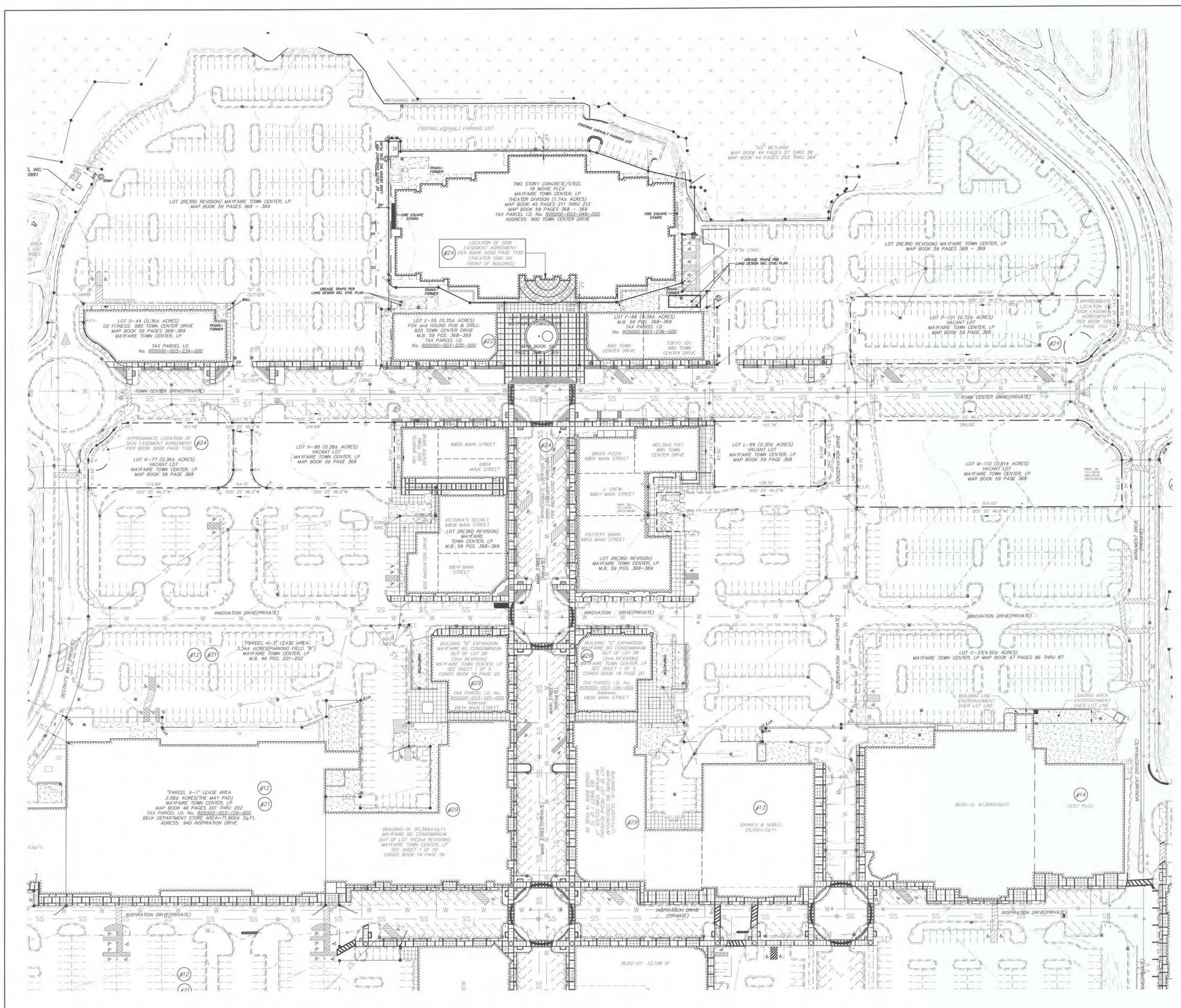
| | |
|---------------------|--|
| OWNER | CBL & Associates Properties, Inc. 2030 Hamilton Place Blvd., Suite 500 Chattanooga, TN 37421 (423) 855-0001 Contact: Ken Wittler |
| LANDSCAPE ARCHITECT | LandDesign, Inc. 222 W. Las Colinas Blvd., Suite 1405N Irving, TX 75039 (214) 785-6009 Contact: Matt Vinten |
| CIVIL ENGINEER | LandDesign, Inc. 100 S. Orange Ave., Suite 700 Orlando, FL 32801 (407) 270-7800 Contact: David Gastel |
| ARCHITECT | Cooper Cary 191 Peachtree St. NE, Suite 2400 Atlanta, GA 30303 (404) 237-2000 Contact: Maria Greenawalt |

| SHEET INDEX | |
|--------------|---|
| Sheet Number | Sheet Title |
| C-0.0 | COVER SHEET |
| C-1.0 | OVERALL EXISTING CONDITIONS PLAN |
| C-1.1 | OVERALL DEMOLITION PLAN |
| C-1.2 | DEMOLITION PLAN AREA A |
| C-1.3 | DEMOLITION PLAN AREA B |
| C-2.0 | OVERALL SITE PLAN |
| C-2.1 | SITE PLAN AREA A |
| C-2.2 | SITE PLAN AREA B |
| C-2.3 | SITE DETAILS |
| C-2.4 | SITE DETAILS |
| C-2.5 | SITE DETAILS |
| C-3.0 | EROSION CONTROL PHASE I |
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| C-4.0 | OVERALL GRADING AND STORM DRAINAGE PLAN |
| C-4.1 | GRADING AND STORM DRAINAGE PLAN AREA A |
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| C-4.3 | OVERALL WATERSHED PLAN |
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| C-5.1 | UTILITY PLAN AREA A |
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| C-5.3 | UTILITY DETAILS |
| C-5.4 | UTILITY DETAILS |
| C-5.5 | UTILITY DETAILS |
| C-5.6 | UTILITY DETAILS |
| C-5.7 | UTILITY DETAILS |
| C-5.8 | UTILITY DETAILS |
| C-6.0 | OVERALL LANDSCAPE PLAN |
| C-6.1 | LANDSCAPE PLAN AREA A |
| C-6.2 | LANDSCAPE PLAN AREA B |
| C-6.3 | LANDSCAPE DETAILS |
| C-6.4 | LANDSCAPE DETAILS - RESERVED |

**MAYFAIRE TOWN CENTER
PHASE III
WILMINGTON, NORTH CAROLINA
COVER SHEET**

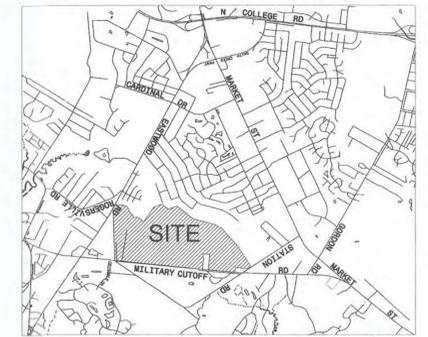
REVISIONS:

DATE: 12/02/2015
DESIGNED BY: DWG
DRAWN BY: DWG
CHECKED BY: DGG
SCALE: AS SHOWN
PROJECT #: 1015249
SHEET #:
C-0.0



LEGEND:

| | | |
|-----|-----|---------------------------|
| X | X | EX DRAINAGE EASEMENT |
| ST | ST | EX FENCE |
| OHU | OHU | EX STORM PIPE |
| SS | SS | EX OVERHEAD ELECTRIC |
| GAS | GAS | EX SANITARY SEWER |
| FO | FO | EX GAS LINE |
| | | EX FIBER OPTIC LINE |
| | | EX GIS MINOR CONTOUR |
| | | EX SURVEY MINOR CONTOUR |
| | | EX SURVEY MAJOR CONTOUR |
| | | EX ROW |
| | | EX SANITARY SEWER MANHOLE |
| | | EX UTILITY POLE |
| | | EX STORM BOX |
| | | EX STORM MANHOLE |
| | | EX FIRE HYDRANT |
| | | EX WATER MANHOLE |
| | | EX WATER VALVE |
| | | EX GAS VALVE |

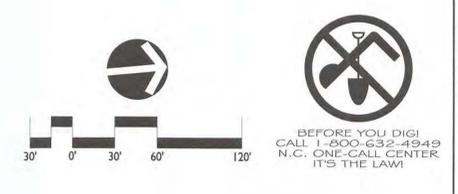


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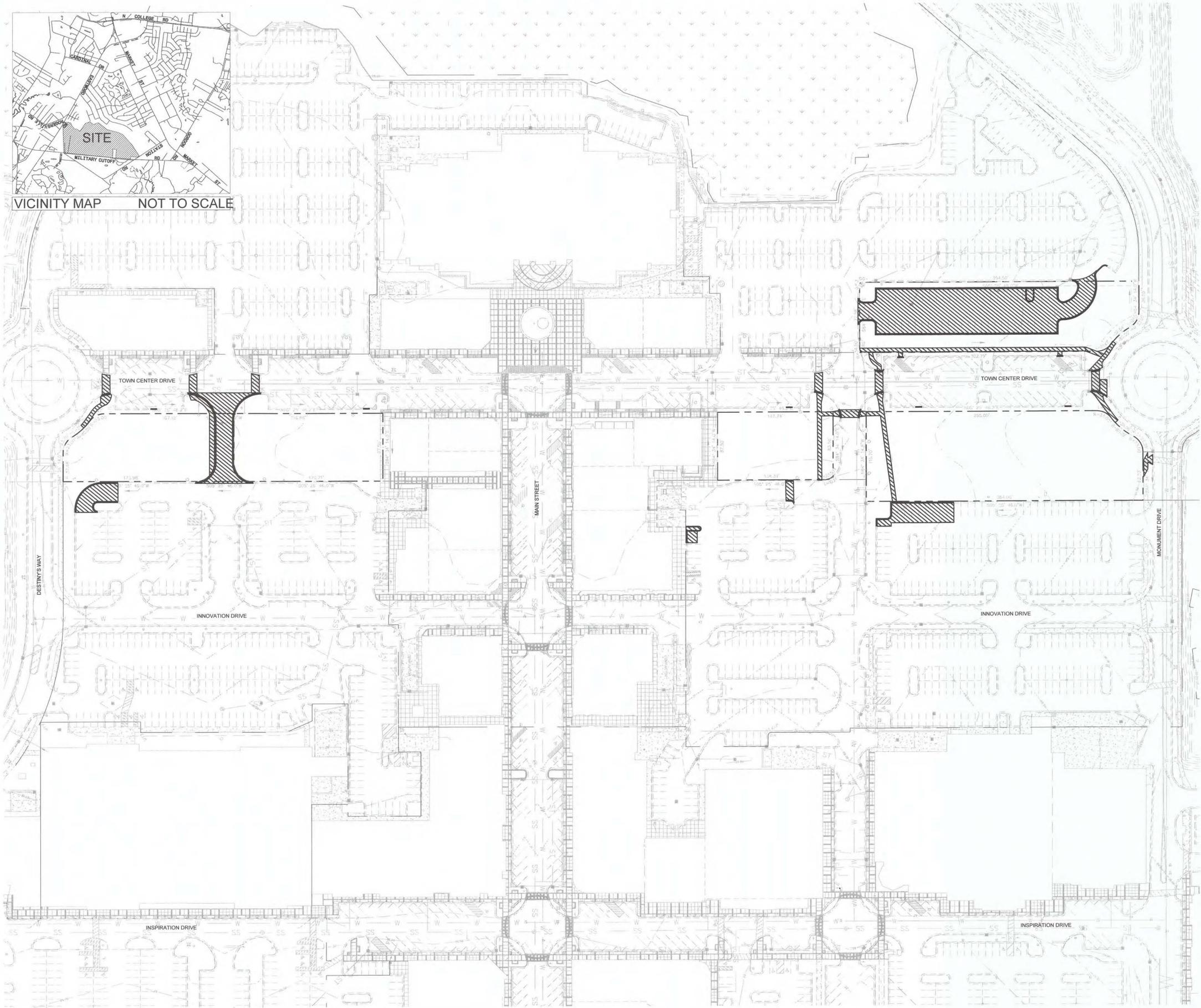


**MAYFAIRE TOWN CENTER
 PHASE III
 WILMINGTON, NORTH CAROLINA
 OVERALL EXISTING CONDITIONS PLAN**



DATE: 12/02/2015
 DESIGNED BY: DWG
 DRAWN BY: DWG
 CHECKED BY: DWG
 SCALE: 1"=60'
 PROJECT #: 1015249
 SHEET #: **C-1.0**

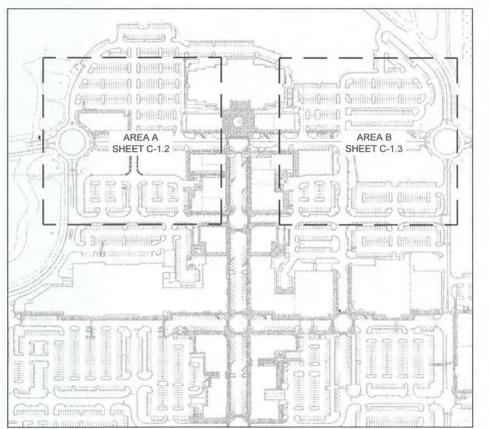
BEFORE YOU DIG!
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 N.C. ONE-CALL CENTER
 IT'S THE LAW!



VICINITY MAP NOT TO SCALE

LEGEND:

| | |
|--|----------------------------|
| | EX. DRAINAGE EASEMENT |
| | EX. FENCE |
| | EX. STORM PIPE |
| | EX. OVERHEAD ELECTRIC |
| | EX. SANITARY SEWER |
| | EX. GAS LINE |
| | EX. FIBER OPTIC LINE |
| | EX. GIS MINOR CONTOUR |
| | EX. GIS MAJOR CONTOUR |
| | EX. SURVEY MINOR CONTOUR |
| | EX. SURVEY MAJOR CONTOUR |
| | EX. LOT LINE |
| | EX. CURB TO BE REMOVED |
| | EX. SANITARY SEWER MANHOLE |
| | EX. UTILITY POLE |
| | EX. STORM BOX |
| | EX. STORM MANHOLE |
| | EX. FIRE HYDRANT |
| | EX. WATER MANHOLE |
| | EX. WATER VALVE |
| | EX. GAS VALVE |
| | EX. PAVEMENT TO BE REMOVED |

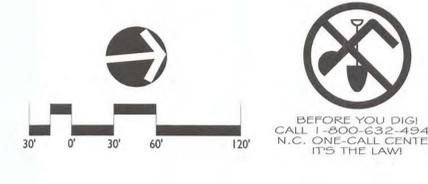


SITE LOCATION MAP N.T.S.

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MAYFAIRE TOWN CENTER
PHASE III
 WILMINGTON, NORTH CAROLINA
OVERALL DEMOLITION PLAN



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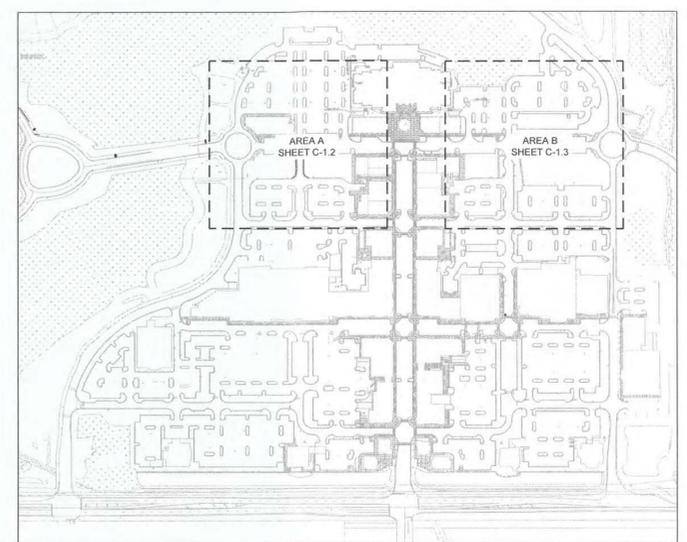
REVISIONS:
 DATE: 12/02/2015
 DESIGNED BY: DVC
 DRAWN BY: DVC
 C.C. BY: DGG
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 PROJECT #: 1015249
 SHEET #:
C-1.1



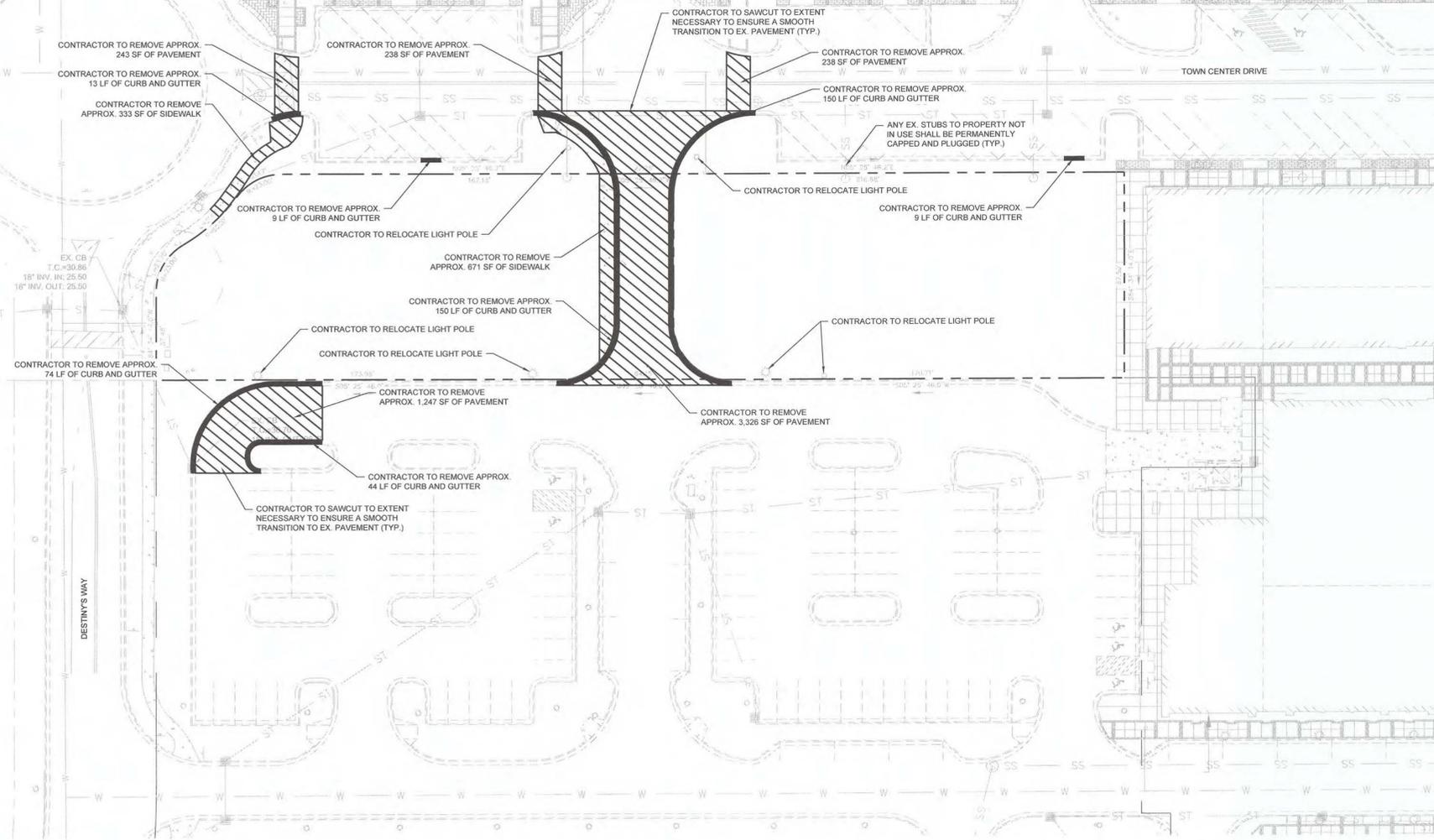
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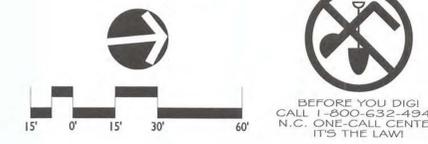
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| EX. SANITARY SEWER | --- |
| EX. WATER LINE | --- |
| EX. GAS LINE | --- |
| EX. FIBER OPTIC LINE | --- |
| EX. LOT LINE | --- |
| EX. CURB TO BE REMOVED | --- |
| EX. SANITARY SEWER MANHOLE | --- |
| EX. UTILITY POLE | --- |
| EX. STORM BOX | --- |
| EX. STORM MANHOLE | --- |
| EX. FIRE HYDRANT | --- |
| EX. WATER MANHOLE | --- |
| EX. WATER VALVE | --- |
| EX. GAS VALVE | --- |
| EX. PAVEMENT TO BE REMOVED | --- |



SITE LOCATION MAP N.T.S.



- SITE NOTES:**
- EXISTING SITE CONDITIONS SHALL BE VERIFIED PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL REPORT ANY DIFFERENCES FROM THE PLAN THAT WILL AFFECT CONSTRUCTION. IN WRITING, TO THE ENGINEER AND AWAIT FURTHER INSTRUCTIONS.
 - ALL EXISTING CURBS AND PAVEMENT, TO REMAIN, SHALL BE PROTECTED FROM CONSTRUCTION DAMAGE. ALL DAMAGED, CHIPPED OR CRACKED PORTIONS OF CURB OR PAVEMENT SHALL BE REPLACED. IN ADDITION, ANY MORTAR, CONCRETE, SOIL AND OTHER DEPOSITS OR STAINS SHALL BE CLEANED TO RETURN THE CURBS AND PAVEMENT TO THEIR ORIGINAL CONDITION.
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 - RESTORE DAMAGED IMPROVEMENTS TO THEIR ORIGINAL CONDITION, AS ACCEPTABLE TO PARTIES HAVING JURISDICTION.
 - DEMOLISH AND COMPLETELY REMOVE FROM SITE MATERIAL INDICATED ON PLAN OR NOTES "TO BE REMOVED".
 - PROTECT STRUCTURES, UTILITIES, SIDEWALKS, PAVEMENTS, AND OTHER FACILITIES FROM DAMAGE CAUSED BY SETTLEMENT, LATERAL MOVEMENT, UNDERMINING, WASHOUT AND OTHER HAZARDS CREATED BY THE DEMOLITION OPERATION.
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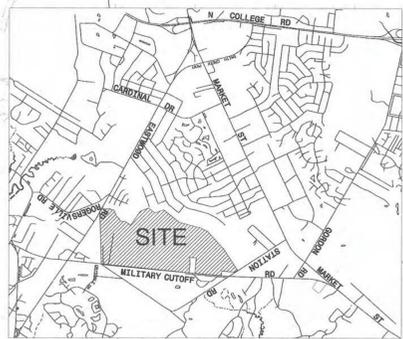


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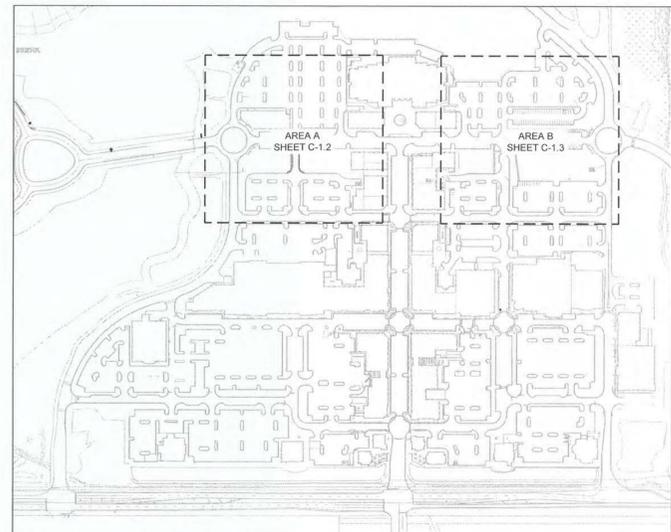
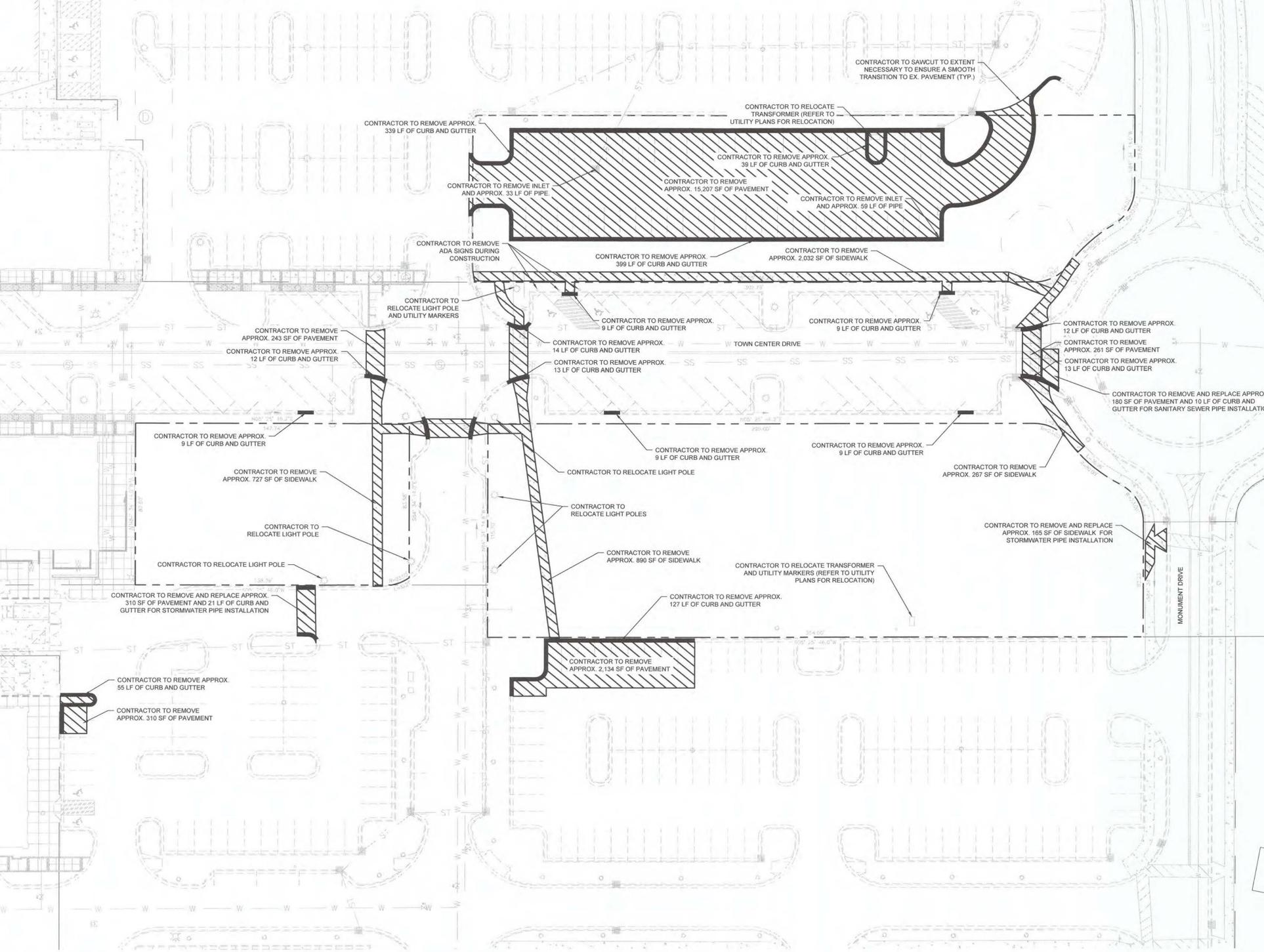
MAYFAIRE TOWN CENTER
PHASE III
 WILMINGTON, NORTH CAROLINA
 DEMOLITION PLAN AREA A

DATE: 12/02/2015
 DESIGNED BY: DMC
 DRAWN BY: DMC
 CHECKED BY: DGG
 C.I. BY: DGG
 SCALE: 1"=50'
 PROJECT #: 1015249
 SHEET #: **C-1.2**



VICINITY MAP NOT TO SCALE

| LEGEND: | |
|---------|----------------------------|
| EX | EX. DRAINAGE EASEMENT |
| EX | EX. FENCE |
| EX | EX. STORM PIPE |
| EX | EX. OVERHEAD ELECTRIC |
| EX | EX. SANITARY SEWER |
| EX | EX. WATER LINE |
| EX | EX. GAS LINE |
| EX | EX. FIBER OPTIC LINE |
| EX | EX. LOT LINE |
| EX | EX. CURB TO BE REMOVED |
| EX | EX. SANITARY SEWER MANHOLE |
| EX | EX. UTILITY POLE |
| EX | EX. STORM BOX |
| EX | EX. STORM MANHOLE |
| EX | EX. FIRE HYDRANT |
| EX | EX. WATER MANHOLE |
| EX | EX. WATER VALVE |
| EX | EX. GAS VALVE |
| EX | EX. PAVEMENT TO BE REMOVED |



SITE LOCATION MAP N.T.S.

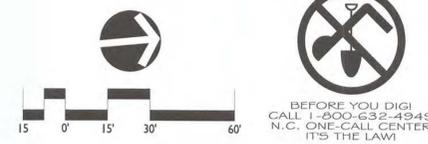
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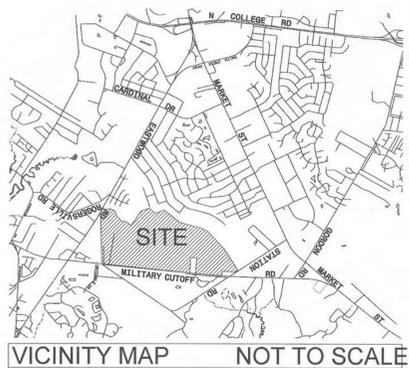


**MAYFAIRE TOWN CENTER
 PHASE III
 WILMINGTON, NORTH CAROLINA
 DEMOLITION PLAN AREA B**

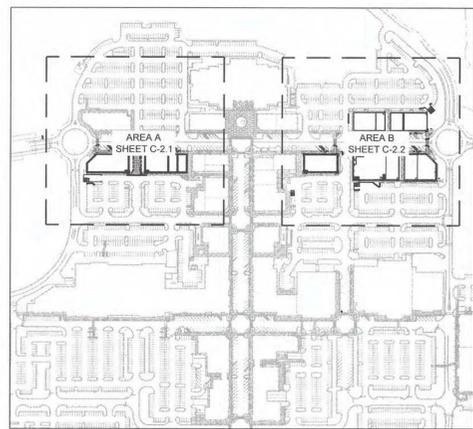
REVISIONS:
 DATE 12/02/2015
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 CHECKED BY: DGG
 Q.C. BY: DGG
 SCALE: 1"=30'
 PROJECT #: 1015249
 SHEET #:
C-1.3



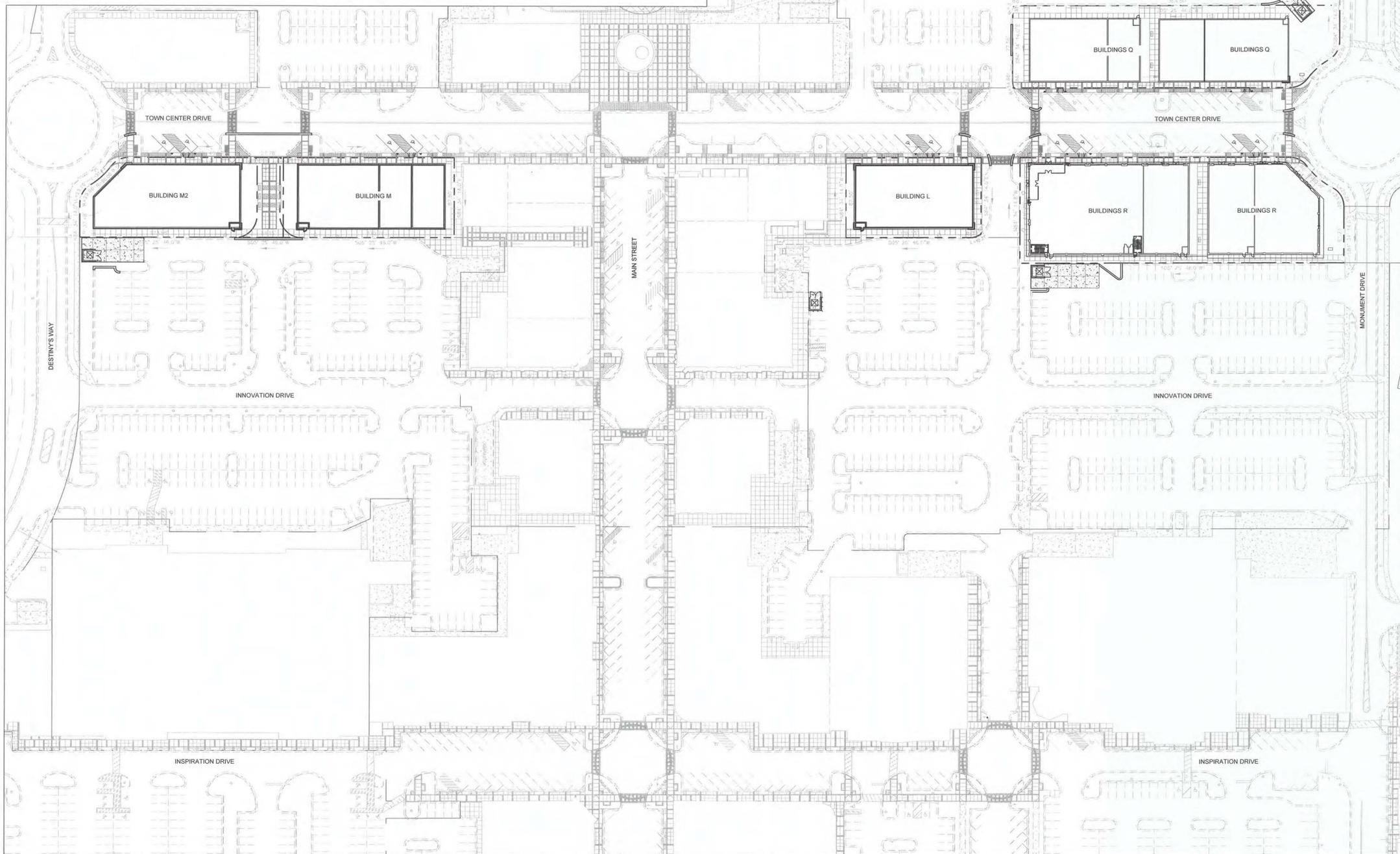
BEFORE YOU DIG!
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 N.C. ONE-CALL CENTER
 IT'S THE LAW!



VICINITY MAP NOT TO SCALE



SITE LOCATION MAP N.T.S.



| SITE LEGEND | |
|-------------------------|--|
| PROP. CONCRETE | |
| PROP. BRICK PAVER AREAS | |

SITE DEVELOPMENT SUMMARY:

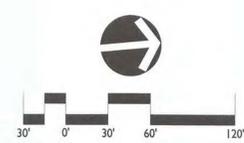
| | |
|---------------------------------|-----------------------------------|
| PARCEL ID#: | R050000-003-0013-0000 |
| LOTS TO BE DEVELOPED: | K-77, H-88, L-99, M-110, P-121 |
| PROPERTY OWNER: | CBL & ASSOCIATES PROPERTIES, INC. |
| ZONED: | MX |
| USE: | VACANT COMMERCIAL |
| EXISTING PROPOSED: | COMMERCIAL RETAIL |
| PROPOSED BUILDINGS: | 7 (90,100 ± SF) |
| TOTAL LOT AREA: | 2.67 ACRES |
| DISTURBED AREA: | 3.63 ACRES |
| PROPOSED UTILITY QUANTITIES: | |
| 4" SANITARY LATERALS | 1,572 LF |
| 8" WATERLINE | 236 LF |
| 4" WATERLINE | 703 LF |
| 2" WATERLINE | 690 LF |
| PARKING: | |
| ALLOCATED FOR PHASE III | 239 |
| PROP. ADA CONVERTED STALLS | 10 |
| ADJUSTED TOTAL | 234 |
| REQUIRED (4.00 SPACES/1,000 SF) | 360 |

NOTE: SEE ORIGINAL BUILDING AND PARKING TABULATION BELOW FOR ADDITIONAL PARKING INFORMATION BASED ON ORIGINAL MASTER PLAN.

ORIGINAL BUILDING AND PARKING TABULATION

| | LEASEABLE AREA | PARKING REQUIRED | PARKING PROVIDED | PARKING RATIO REQUIRED | PARKING RATIO PROVIDED |
|---------------------------------------|----------------|------------------|------------------|------------------------|------------------------|
| PHASE I & I-A (OPT 1): | | | | | |
| HECHT'S | 140,880 SF | 599 | 600 | 4.25 PER 1,000 | 4.25 PER 1,000 |
| BARNES & NOBLE | 25,000 SF | 100 | 100 | 4.00 PER 1,000 | 4.00 PER 1,000 |
| LINENS & THINGS | 28,000 SF | 112 | 112 | 4.00 PER 1,000 | 4.00 PER 1,000 |
| PHASE I RETAIL | 139,423 SF | 540 | 540 | 4.00 PER 1,000 | 7.49 PER 1,000 |
| PHASE I-A RETAIL | 90,199 SF | 347 | 79 | 4.00 PER 1,000 | 0.87 PER 1,000 |
| OUTPARCELS | 23,830 SF | 119 | 250 | 5.00 PER 1,000 | 10.49 PER 1,000 |
| (OPT 1) TOTAL | 447,332 SF | 1,817 | 2,186 | | 4.89 PER 1,000 |
| PHASE I & I-A (OPT 2): | | | | | |
| HECHT'S | 140,880 SF | 599 | 600 | 4.25 PER 1,000 | 4.25 PER 1,000 |
| BARNES & NOBLE | 25,000 SF | 100 | 100 | 4.00 PER 1,000 | 4.00 PER 1,000 |
| LINENS & THINGS | 28,000 SF | 112 | 112 | 4.00 PER 1,000 | 4.00 PER 1,000 |
| PHASE I RETAIL | 139,423 SF | 540 | 998 | 4.00 PER 1,000 | 7.16 PER 1,000 |
| PHASE I-A RETAIL | 93,927 SF | 362 | 79 | 4.00 PER 1,000 | 0.84 PER 1,000 |
| OUTPARCELS | 23,830 SF | 119 | 250 | 5.00 PER 1,000 | 10.49 PER 1,000 |
| (OPT 2) TOTAL | 451,060 SF | 1,832 | 2,139 | | 4.74 PER 1,000 |
| PHASE II: | | | | | |
| THEATER | 58,968 SF | 611 | 611 | 10.36 PER 1,000 | 10.36 PER 1,000 |
| PHASE II RETAIL | 56,562 SF | 241 | 56 | 4.00 PER 1,000 | 1.00 PER 1,000 |
| PHASE II TOTAL | 115,530 SF | 852 | 667 | | 5.77 PER 1,000 |
| PHASE III & III-A (OPT 1): | | | | | |
| PHASE III & III-A RETAIL | 110 SF | 580 | 239 | 4.00 PER 1,000 | 1.65 PER 1,000 |
| (OPT 1) TOTAL | 145,110 SF | 580 | 239 | | 1.65 PER 1,000 |
| PHASE III & III-A (OPT 2): | | | | | |
| PHASE III & III-A RETAIL | 110 SF | 644 | 239 | 4.00 PER 1,000 | 1.49 PER 1,000 |
| (OPT 2) TOTAL | 160,885 SF | 644 | 239 | | 1.49 PER 1,000 |
| TOWN CENTER TOTALS (OPT 1): | | | | | |
| PHASE I & I-A (OPT 1) | 447,332 SF | | 2,186 | | 4.89 PER 1,000 |
| PHASE II | 115,530 SF | | 667 | | 5.77 PER 1,000 |
| PHASE III & III-A | 145,110 SF | | 239 | | 1.65 PER 1,000 |
| (OPT 1) TOTAL | 707,972 SF | | 3,092 | | 4.37 PER 1,000 |
| TOWN CENTER TOTALS (OPT 2): | | | | | |
| PHASE I & I-A (OPT 2) | 451,060 SF | | 2,139 | | 4.74 PER 1,000 |
| PHASE II | 115,530 SF | | 667 | | 5.77 PER 1,000 |
| PHASE III & III-A (OPT 2) | 160,885 SF | | 239 | | 1.49 PER 1,000 |
| (OPT 2) TOTAL | 727,475 SF | | 3,045 | | 4.19 PER 1,000 |

NOTE: PARKING FOR RESIDENTIAL (OFFICE) OVER RETAIL IN PHASE I WILL BE ACCOMPLISHED BY SURRFACE PARKING SPACES. 66,000 SF OF AREA AT 1.5 SPACES PER UNIT (1000 SF) = 75 SPACES PROVIDED.



REVISIONS:

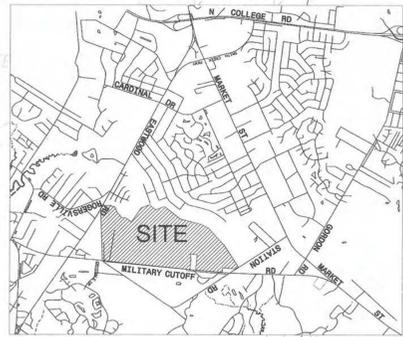
DATE: 12/02/2015
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 SCALE: 1"=60'
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SHEET #:
C-2.0

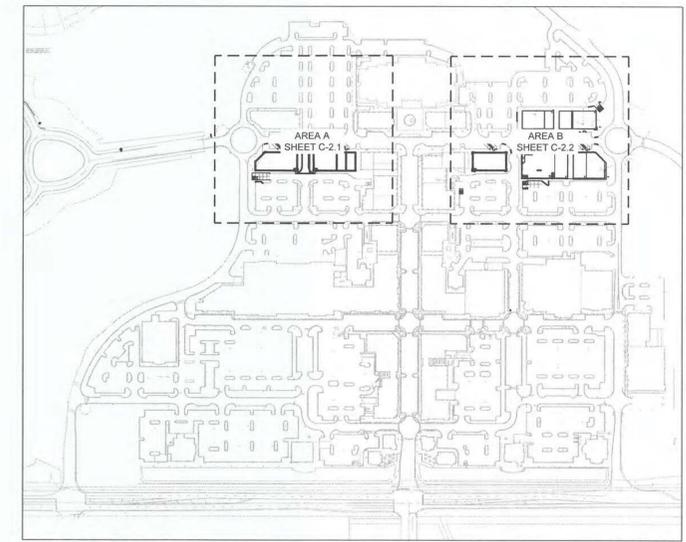
MAYFAIRE TOWN CENTER
PHASE III
 WILMINGTON, NORTH CAROLINA
 OVERALL SITE PLAN

LandDesign
 100 South Orange Ave., Suite 700
 Wilmington, NC 28401
 Y: 407.770.7880
 www.LandDesign.com
 NC Engineering Firm License # C-0658

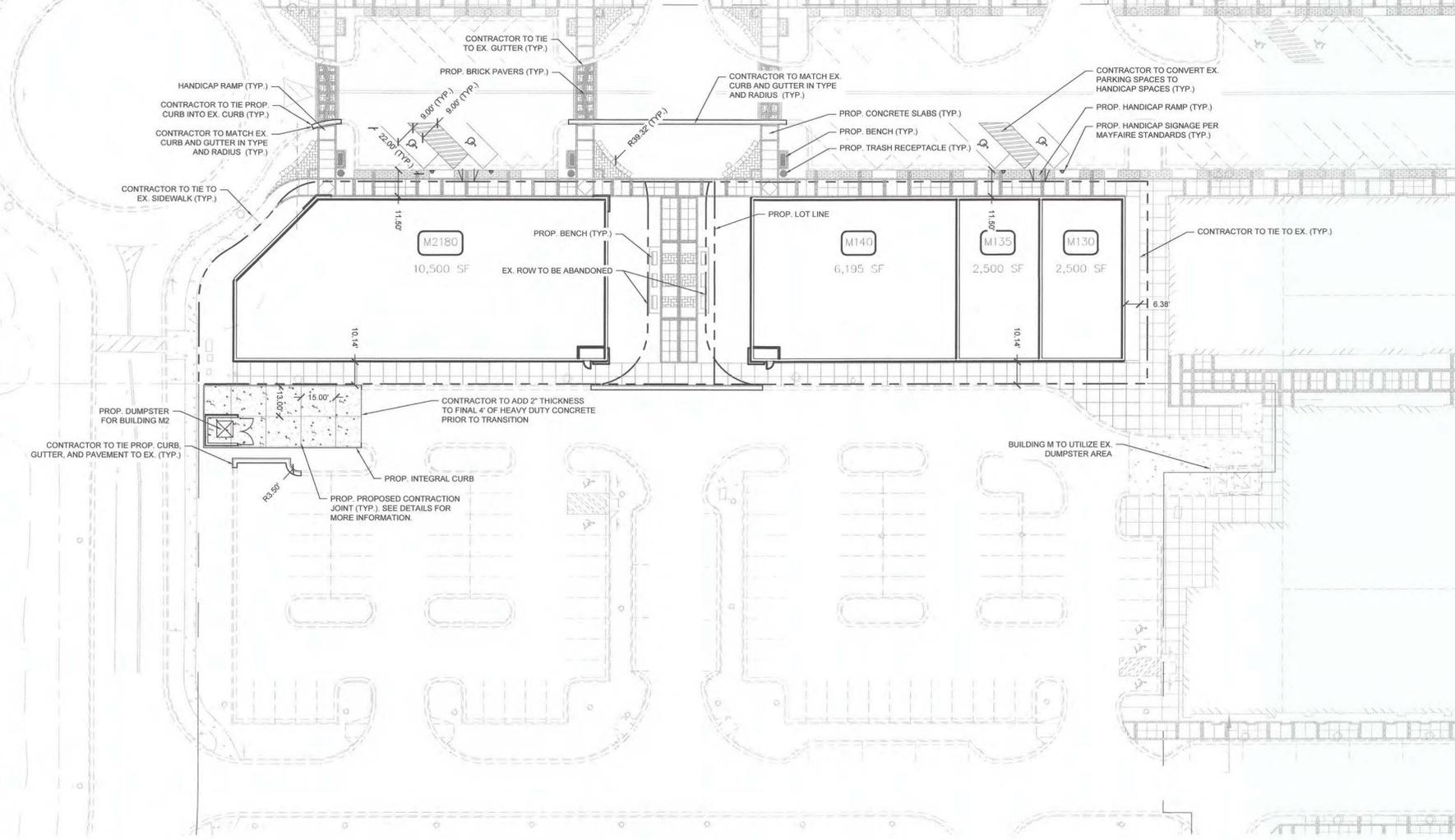




VICINITY MAP NOT TO SCALE

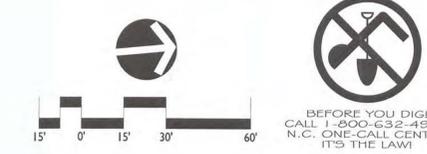


SITE LOCATION MAP N.T.S.



SITE NOTES:

- EXISTING SITE CONDITIONS SHALL BE VERIFIED PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL REPORT ANY DIFFERENCES FROM THE PLAN THAT WILL AFFECT CONSTRUCTION. IN WRITING, TO THE ENGINEER AND AWAIT FURTHER INSTRUCTIONS.
- EXISTING SURVEY INFORMATION & PARKING LOT DESIGN WAS OBTAINED FROM: MAYFAIRE TOWN CENTER DRAWINGS DATED 12/7/06
- BY: LANDDESIGN, INC. 100 S. ORANGE AVE. SUITE 700 ORLANDO, FL 32801 (407) 270-7800
- ALL EXISTING CURBS AND PAVEMENT, TO REMAIN, SHALL BE PROTECTED FROM CONSTRUCTION DAMAGE. ALL DAMAGED, CHIPPED OR CRACKED PORTIONS OF CURB OR PAVEMENT SHALL BE REPLACED. IN ADDITION, ANY MORTAR, CONCRETE, SOIL AND OTHER DEPOSITS OR STAINS SHALL BE CLEANED TO RETURN THE CURBS AND PAVEMENT TO THEIR ORIGINAL CONDITION.
- DIMENSIONS ARE TO EDGE OF PAVEMENT OR BACK OF CURB
- ALL SIGNS AND PAVEMENT MARKINGS IN AREAS OPEN TO PUBLIC TRAFFIC ARE TO MEET MUTCD (MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES) STANDARDS.
- CONSTRUCTION TYPE SHALL BE TYPE 2B
- ALL PUBLIC STREET SIDEWALKS MUST BE IN ACCORDANCE WITH THE CITY OF WILMINGTON STANDARDS.
- HANDICAPPED RAMP LOCATIONS ARE TO BE DETERMINED BY FINAL DOORWAY LOCATION IN CONJUNCTION WITH HANDICAPPED PARKING.
- ALL SIDEWALKS AND HANDICAPPED RAMPS SHALL MEET A.D.A. STANDARDS AND SPECIFICATIONS.
- ALL PAVEMENT MARKINGS IN PUBLIC RIGHTS-OF-WAY AND FOR DRIVEWAYS ARE TO BE THERMOPLASTIC AND MEET CITY AND/OR NCDOT STANDARDS.
- ALL TRAFFIC CONTROL SIGNS AND MARKINGS OFF THE RIGHT-OF-WAY ARE TO BE MAINTAINED BY THE PROPERTY OWNER. ANY BROKEN OR MISSING SIDEWALK PANELS AND CURBS WILL BE REPLACED BY CONTRACTOR.
- 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.
- ONCE STREETS ARE OPEN TO TRAFFIC, CONTACT TRAFFIC ENGINEERING REGARDING THE INSTALLATION OF TRAFFIC AND STREET NAME SIGNS. PROPOSED STREET NAMES MUST BE APPROVED PRIOR TO INSTALLATION OF STREET NAME SIGNS.
- TRAFFIC CONTROL DEVICES (INCLUDING SIGNS AND MARKINGS) IN AREAS OPEN TO PUBLIC TRAFFIC ARE TO MEET MUTCD (MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES) STANDARDS.
- CONTACT TRAFFIC ENGINEERING AT 910-341-7888 TO ENSURE THAT ALL TRAFFIC SIGNAL FACILITIES AND EQUIPMENT ARE SHOWN ON THE PLAN.
- CALL TRAFFIC ENGINEERING AT 910-341-7888 FORTY-EIGHT (48) HOURS PRIOR TO ANY EXCAVATION IN THE RIGHT-OF-WAY.
- TRAFFIC ENGINEERING MUST APPROVE OF PAVEMENT MARKING PRIOR TO ACTUAL STRIPING.
- ALL PARKING STALL MARKINGS AND LANE ARROWS WITHIN THE PARKING AREAS SHALL BE WHITE.
- ALL TRAFFIC CONTROL SIGNS AND MARKINGS OFF THE RIGHT-OF-WAY ARE TO BE MAINTAINED BY THE PROPERTY OWNER.
- STOP SIGNS AND STREET SIGNS TO REMAIN IN PLACE DURING CONSTRUCTION.
- TACTILE WARNING MATS WILL BE INSTALLED ON ALL WHEELCHAIR RAMPS.
- A UTILITY CUT PERMIT IS REQUIRED FOR EACH OPEN CUT OF A CITY STREET.
- ANY BROKEN OR MISSING SIDEWALK PANELS WILL BE REPLACED.
- CONTACT KAREN DIXON AT 910-341-7888 TO DISCUSS STREET LIGHTING OPTIONS.
- WATER AND SEWER SERVICE SHALL MEET CAPE FEAR PUBLIC UTILITY AUTHORITY (CFPUA) DETAILS AND SPECIFICATIONS. PROJECT SHALL COMPLY WITH CFPUA CROSS CONNECTION REQUIREMENTS. WATER METERS/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.
- ANY IRRIGATION SYSTEM SUPPLIED BY CFPUA WATER SHALL COMPLY WITH THE CFPUA CROSS CONNECTION CONTROL REGULATIONS. CALL 910-343-3910 FOR INFORMATION.
- ANY IRRIGATION SYSTEM SHALL BE EQUIPPED WITH A RAIN AND FREEZER SENSOR.
- ANY BACKFLOW PREVENTION DEVICES REQUIRED BY THE CFPUA WILL NEED TO BE ON THE LIST OF APPROVED DEVICES BY USFC/COCHRAN OR ASSE.
- CONTRACTOR TO FIELD VERIFY EXISTING WATER AND SEWER SERVICE LOCATIONS, SIZES AND MATERIALS PRIOR TO CONSTRUCTION. ENGINEER TO BE NOTIFIED OF ANY CONFLICTS.
- CONTRACTOR SHALL MAINTAIN ALL-WEATHER ACCESS FOR EMERGENCY VEHICLES AT ALL TIMES DURING CONSTRUCTION. UNDERGROUND FIRE LINES MUST BE PERMITTED AND INSPECTED BY THE WILMINGTON FIRE DEPARTMENT FROM THE PUBLIC RIGHT-OF-WAY TO THE BUILDING. CONTACT THE WILMINGTON FIRE DEPARTMENT DIVISION OF FIRE AND LIFE SAFETY AT 910-341-0986.
- NO OBSTRUCTIONS ARE PERMITTED IN THE SPACE BETWEEN THIRTY (30) INCHES AND TEN (10) FEET ABOVE THE GROUND WITHIN THE TRIANGULAR SIGHT DISTANCE.
- CONTACT THE NORTH CAROLINA ONE CALL CENTER AT 1-800-632-4949 PRIOR TO DOING ANY DIGGING, CLEARING, OR GRADING.



LandDesign
 100 South Orange Ave., Suite 700
 Orlando, FL 32801
 www.LandDesign.com
 NC Engineering Firm License # C-0658

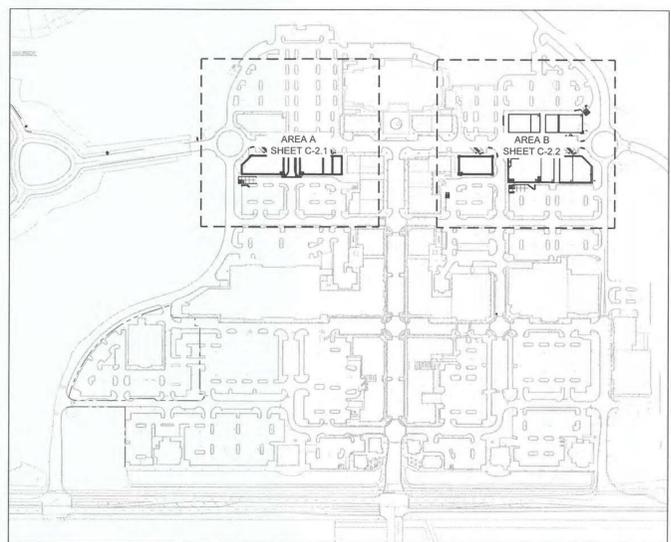
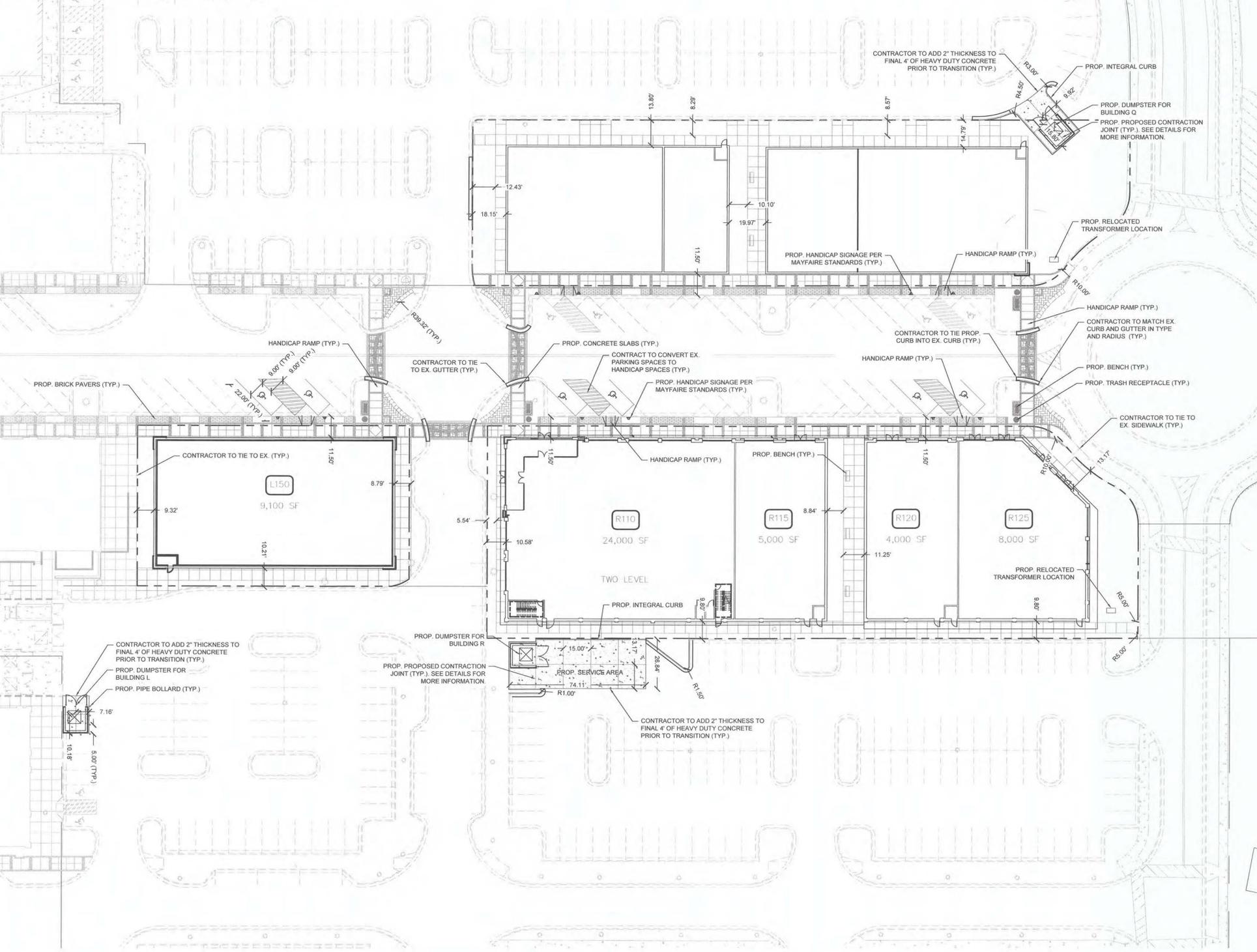


MAYFAIRE TOWN CENTER
PHASE III
 WILMINGTON, NORTH CAROLINA
SITE PLAN AREA A

REVISIONS:
 DATE: 12/02/2015
 DRAWN BY: DDC
 CHECKED BY: DGG
 Q.C. BY: DGG
 SCALE: 1"=30'
 PROJECT #: 1015249
 SHEET #:
C-2.1



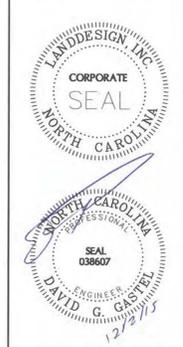
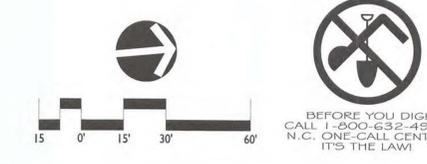
VICINITY MAP NOT TO SCALE



SITE LOCATION MAP N.T.S.

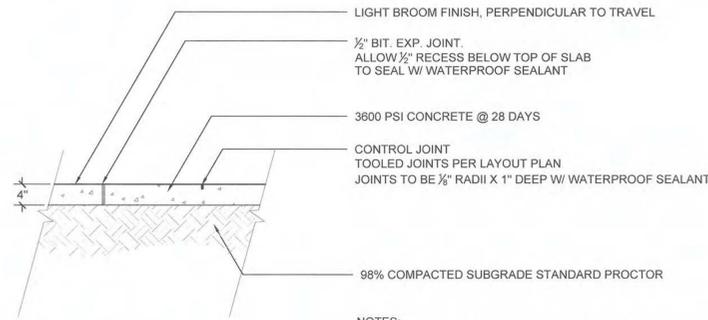
SITE NOTES:

- EXISTING SITE CONDITIONS SHALL BE VERIFIED PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL REPORT ANY DIFFERENCES FROM THE PLAN THAT WILL AFFECT CONSTRUCTION. IN WRITING, TO THE ENGINEER AND AWAIT FURTHER INSTRUCTIONS.
- EXISTING SURVEY INFORMATION & PARKING LOT DESIGN WAS OBTAINED FROM: MAYFAIRE TOWN CENTER DRAWINGS DATED 12/7/06
- BY: LANDDESIGN, INC. 100 S. ORANGE AVE. SUITE 700 ORLANDO, FL 32801 (407) 270-7880
- ALL EXISTING CURBS AND PAVEMENT, TO REMAIN, SHALL BE PROTECTED FROM CONSTRUCTION DAMAGE. ALL DAMAGED, CHIPPED OR CRACKED PORTIONS OF CURB OR PAVEMENT SHALL BE REPLACED. IN ADDITION, ANY MORTAR, CONCRETE, SOIL AND OTHER DEPOSITS OR STAINS SHALL BE CLEANED TO RETURN THE CURBS AND PAVEMENT TO THEIR ORIGINAL CONDITION.
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- ONCE STREETS ARE OPEN TO TRAFFIC, CONTACT TRAFFIC ENGINEERING REGARDING THE INSTALLATION OF TRAFFIC AND STREET NAME SIGNS. PROPOSED STREET NAMES MUST BE APPROVED PRIOR TO INSTALLATION OF STREET NAME SIGNS.
- TRAFFIC CONTROL DEVICES (INCLUDING SIGNS AND PAVEMENT MARKINGS) IN AREAS OPEN TO PUBLIC TRAFFIC ARE TO MEET MUTCD (MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES) STANDARDS.
- CONTACT TRAFFIC ENGINEERING AT 910-341-7888 TO ENSURE THAT ALL TRAFFIC SIGNAL FACILITIES AND EQUIPMENT ARE SHOWN ON THE PLAN.
- CALL TRAFFIC ENGINEERING AT 910-341-7888 FORTY-EIGHT (48) HOURS PRIOR TO ANY EXCAVATION IN THE RIGHT-OF-WAY.
- TRAFFIC ENGINEERING MUST APPROVE OF PAVEMENT MARKING PRIOR TO ACTUAL STRIPING.
- ALL PARKING STALL MARKINGS AND LANE ARROWS WITHIN THE PARKING AREAS SHALL BE WHITE.
- ALL TRAFFIC CONTROL SIGNS AND MARKINGS OFF THE RIGHT-OF-WAY ARE TO BE MAINTAINED BY THE PROPERTY OWNER.
- STOP SIGNS AND STREET SIGNS TO REMAIN IN PLACE DURING CONSTRUCTION.
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- ANY BROKEN OR MISSING SIDEWALK PANELS WILL BE REPLACED.
- CONTACT KAREN DIXON AT 910-341-7888 TO DISCUSS STREET LIGHTING OPTIONS.
- 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 METERS) CANNOT BE RELEASED UNTIL ALL REQUIREMENTS ARE MET AND THE STATE HAS GIVEN THEIR FINAL APPROVAL. CALL 910-343-3010 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.
- ANY IRRIGATION SYSTEM SUPPLIED BY CFPUA WATER SHALL COMPLY WITH THE CFPUA CROSS CONNECTION CONTROL REGULATIONS. CALL 910-343-3010 FOR INFORMATION.
- ANY IRRIGATION SYSTEM SHALL BE EQUIPPED WITH A RAIN AND FREEZER SENSOR.
- ANY BACKFLOW PREVENTION DEVICES REQUIRED BY THE CFPUA WILL NEED TO BE ON THE LIST OF APPROVED DEVICES BY USFCO/CHOR OR ASSE.
- CONTRACTOR TO FIELD VERIFY EXISTING WATER AND SEWER SERVICE LOCATIONS, SIZES AND MATERIALS PRIOR TO CONSTRUCTION. ENGINEER TO BE NOTIFIED OF ANY CONFLICTS.
- CONTRACTOR SHALL MAINTAIN ALL-WEATHER ACCESS FOR EMERGENCY VEHICLES AT ALL TIMES DURING CONSTRUCTION.
- UNDERGROUND FIRE LINES MUST BE PERMITTED AND INSPECTED BY THE WILMINGTON FIRE DEPARTMENT FROM THE PUBLIC RIGHT-OF-WAY TO THE BUILDING. CONTACT THE WILMINGTON FIRE DEPARTMENT DIVISION OF FIRE AND LIFE SAFETY AT 910-341-0966.
- NO OBSTRUCTIONS ARE PERMITTED IN THE SPACE BETWEEN THIRTY (30) INCHES AND TEN (10) FEET ABOVE THE GROUND WITHIN THE TRIANGULAR SIGHT DISTANCE.
- CONTACT THE NORTH CAROLINA ONE CALL CENTER AT 1-800-632-4949 PRIOR TO DOING ANY DIGGING, CLEARING, OR GRADING.



MAYFAIRE TOWN CENTER
PHASE III
 WILMINGTON, NORTH CAROLINA
 SITE PLAN AREA B

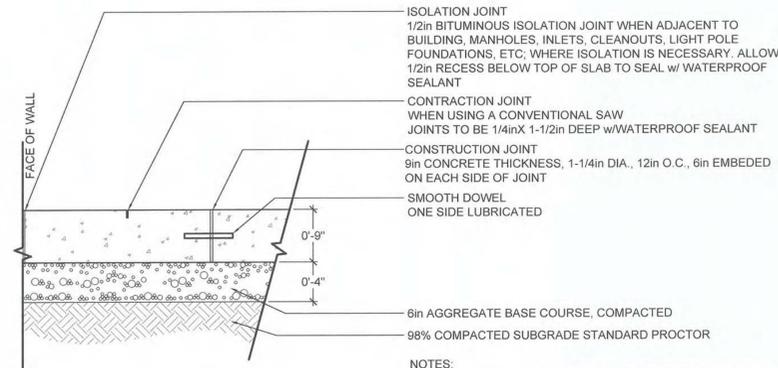
BEFORE YOU DIG
 CALL 1-800-632-4949
 N.C. ONE-CALL CENTER
 IT'S THE LAW!



- NOTES:
- SEE LAYOUT PLAN FOR CONTROL JOINT AND EXPANSION JOINT SPACING. WHEN NOT SHOWN, A HAND TOOLED CONTROL JOINT 1" DEEP WITH 1/8" RADII SHALL BE REQUIRED IN THE CONCRETE SIDE WALK AT 5' INTERVALS. PROVIDE EXPANSION JOINT WHERE THE CONCRETE JOINS ANY RIGID STRUCTURE.
 - CONCRETE SHALL BE 3600psi @ 28 DAYS.
 - WATERPROOF SEALANT TO MATCH CONCRETE COLOR.

1 SCORED CONCRETE
C-2.3 SECTION

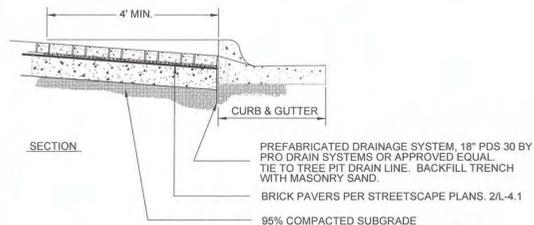
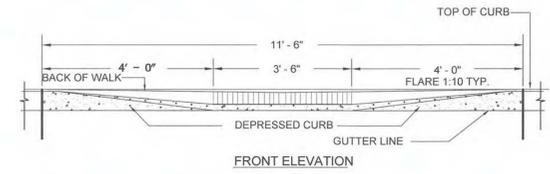
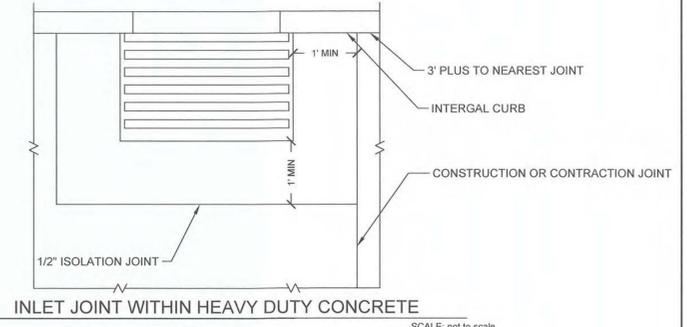
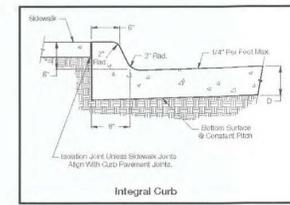
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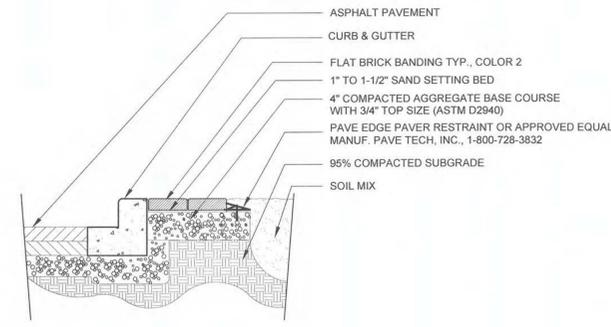
- NOTES:
- CONTRACTOR MUST VERIFY THIS PAVEMENT SECTION WITH CONSULTING GEOTECH PRIOR TO INSTALLATION.
 - SUPPLIER MUST PROVIDE DOCUMENTATION THAT THE MIX WILL OBTAIN A FLEXURAL STRENGTH (MODULUS OF RUPTURE) OF AT LEAST 600 PSI AT 28 DAYS.
 - WATERPROOFING SEALANT TO MATCH CONCRETE COLOR

2 HEAVY DUTY CONCRETE
C-2.3 SECTION

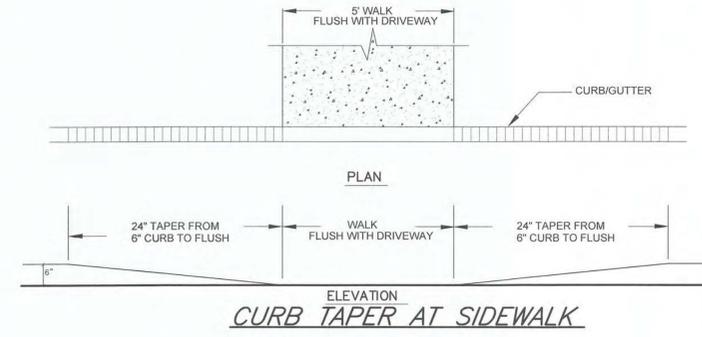
SCALE: 3/4"=1'-0"



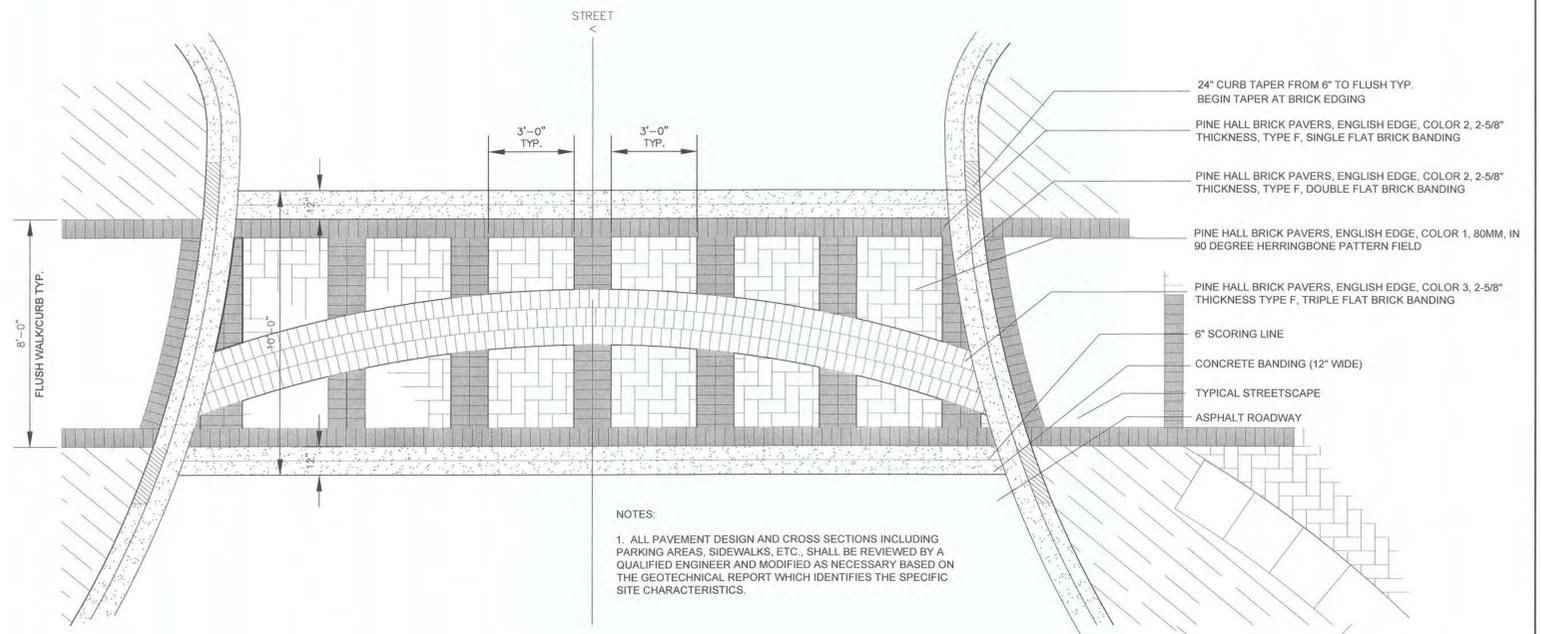
BRICK PAVERS HANDICAP RAMP
N.T.S.



PAVER EDGING
N.T.S.



CURB TAPER AT SIDEWALK



- NOTES:
- ALL PAVEMENT DESIGN AND CROSS SECTIONS INCLUDING PARKING AREAS, SIDEWALKS, ETC., SHALL BE REVIEWED BY A QUALIFIED ENGINEER AND MODIFIED AS NECESSARY BASED ON THE GEOTECHNICAL REPORT WHICH IDENTIFIES THE SPECIFIC SITE CHARACTERISTICS.

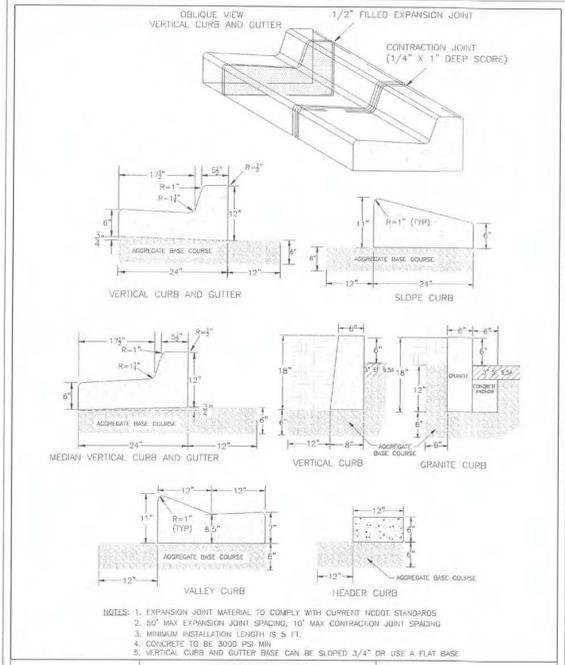
TYPICAL PAVER CROSSWALK
N.T.S.



REVISIONS:

DATE: 12/02/2015
DESIGNED BY: DVC
CHECKED BY: DVC
DRAWN BY: DGG
O.C. BY: DGG
SCALE: N.T.S.
PROJECT #: 1015249

SHEET #:
C-2.3



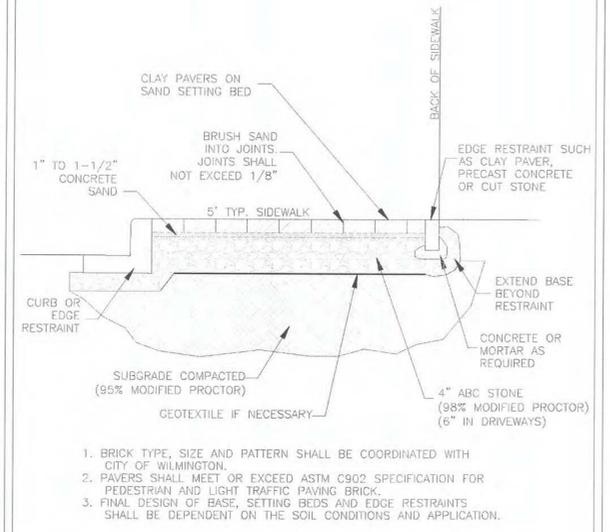
STANDARD DETAIL

CURBING

DATE: AUGUST, 2011
 DRAWN: FB/RSR
 CHECKED: DEC
 SCALE: NOT TO SCALE

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

SD 3-11



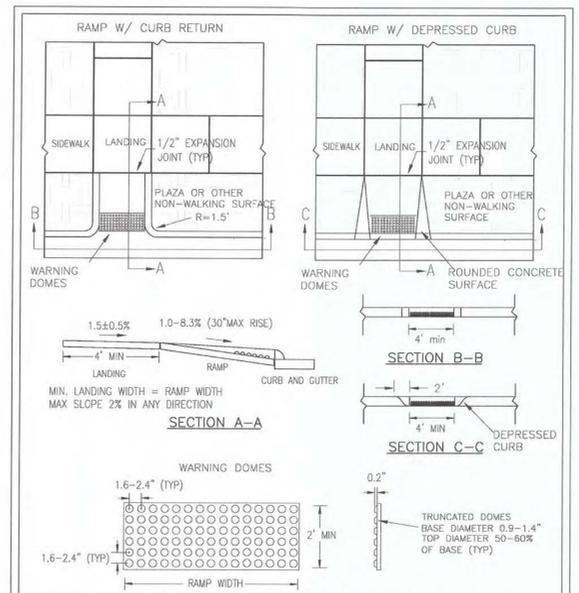
STANDARD DETAIL

BRICK SIDEWALK

DATE: NOVEMBER, 2011
 DRAWN BY: SR
 CHECKED BY: BDR, 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 1-18



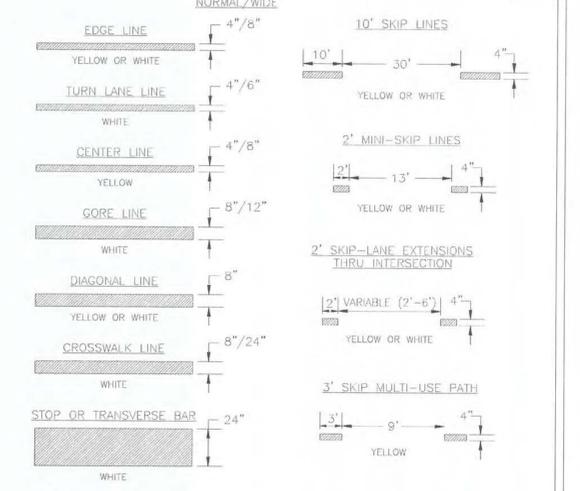
STANDARD DETAIL

PERPENDICULAR CURB RAMP ADJACENT TO PLAZA

DATE: DECEMBER, 2010
 DRAWN: FB/RSR
 CHECKED: DEC
 SCALE: NOT TO SCALE

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

SD3-08



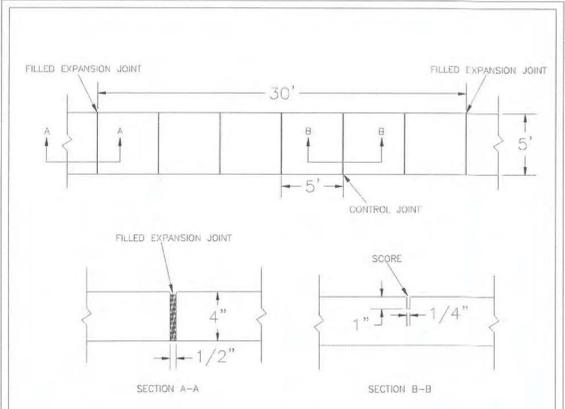
STANDARD DETAIL

PAVEMENT MARKINGS LINE TYPES

DATE: DECEMBER, 2011
 DRAWN BY: JSR
 CHECKED BY: BDR, 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 11-01



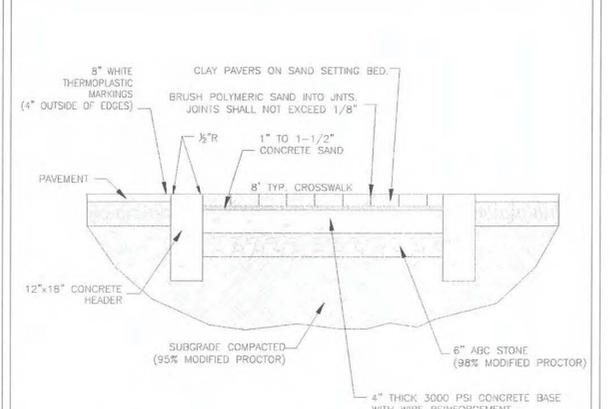
STANDARD DETAIL

SIDEWALK

DATE: OCTOBER, 2010
 DRAWN: FB/RSR
 CHECKED: DEC
 SCALE: NOT TO SCALE

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

SD 3-10



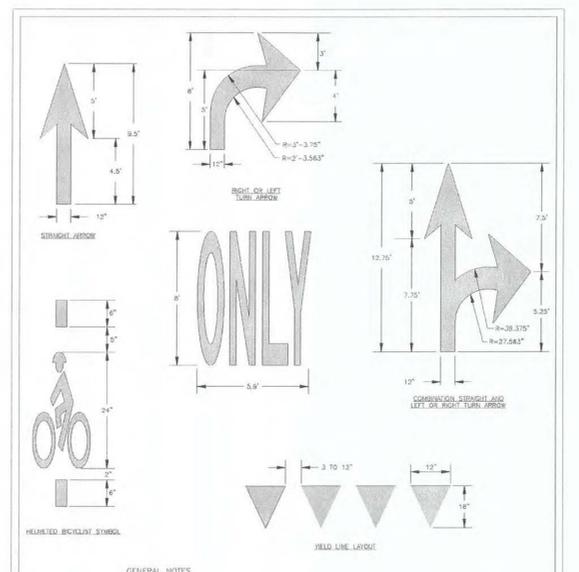
STANDARD DETAIL

BRICK CROSSWALK

DATE: NOVEMBER, 2011
 DRAWN BY: JSR
 CHECKED BY: BDR, 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 3-102



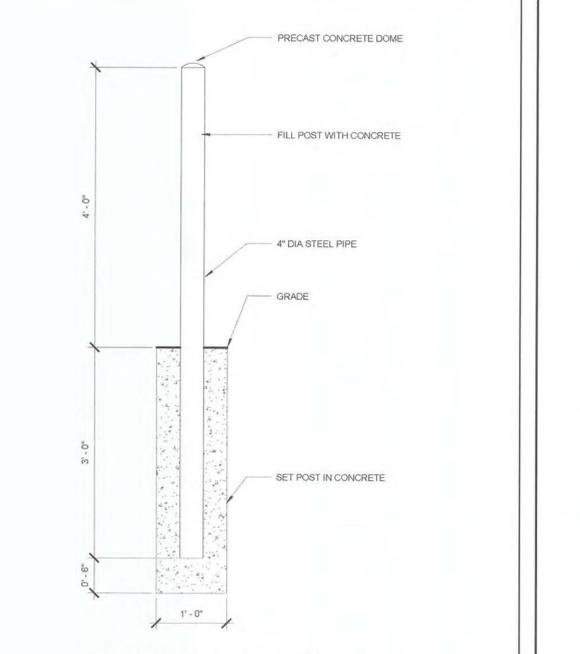
STANDARD DETAIL

GUIDELINES FOR PAVEMENT MARKINGS AND SYMBOLS

DATE: OCTOBER, 2011
 DRAWN BY: JSR
 CHECKED BY: BDR, 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 11-03

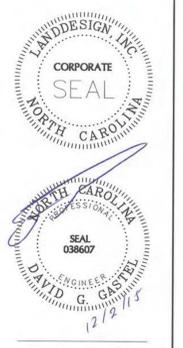


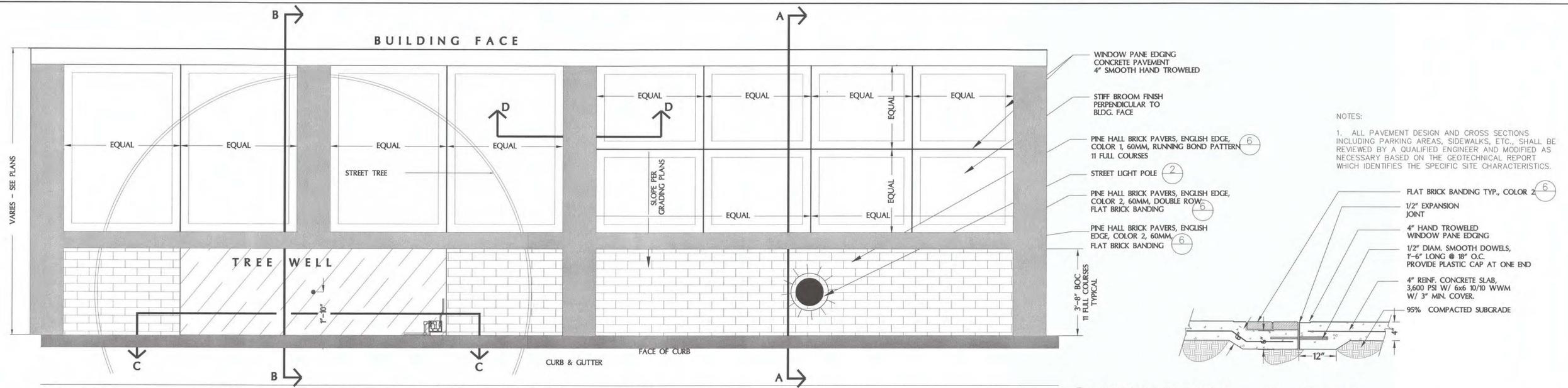
PIPE BOLLARD DETAIL

DATE: DECEMBER, 2011
 DRAWN BY: JSR
 CHECKED BY: BDR, 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 11-01



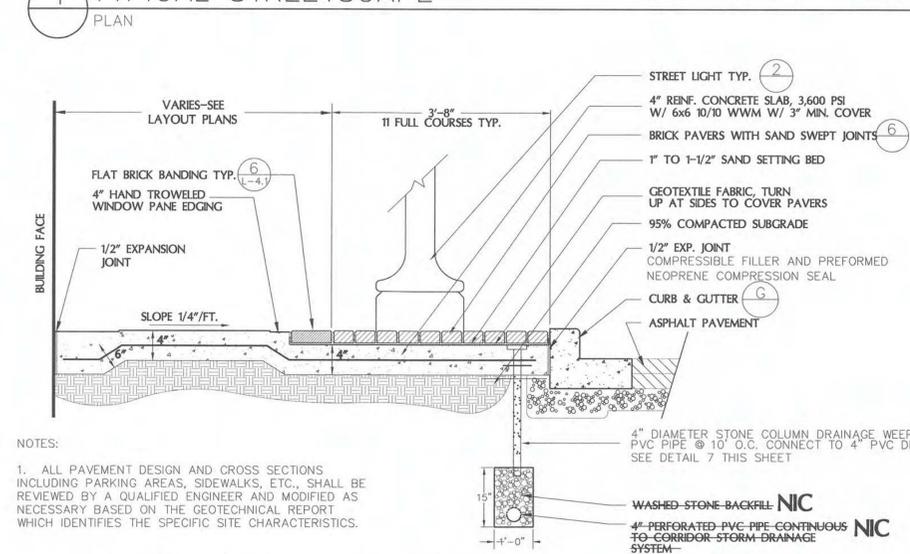


1 TYPICAL STREETSCAPE
PLAN

NOTE: SEE DETAIL 3/L-4.5 FOR UTILITY LINE LOCATIONS

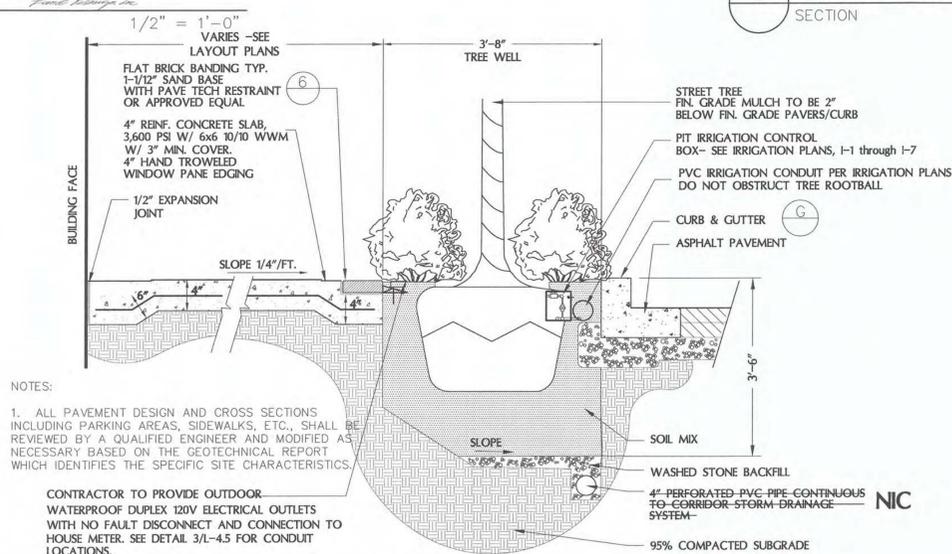
5 STREETSCAPE - Section D
SECTION

13A-03
N.T.S.



2 STREETSCAPE - Section A
SECTION

N.T.S.



4 TREE WELL - Section B
SECTION

N.T.S.

6 PINE HALL BRICK
PAVER INFORMATION

MANUFACTURER: PINE HALL BRICK CO. INC.
P.O. BOX 11044 WINSTON-SALEM, NC 27116
www.pinehallbrick.com

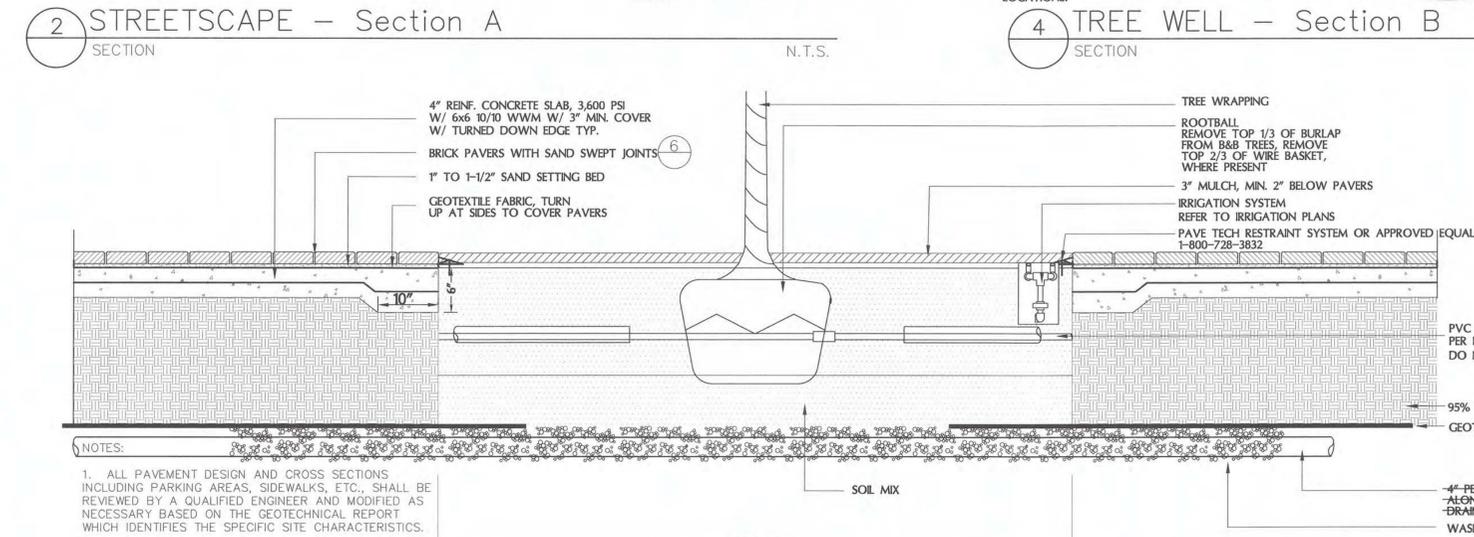
DISTRIBUTOR: PINE HALL BRICK CO. INC.
P.O. BOX 11044 WINSTON-SALEM, NC 27116
1-800-334-8689

SIZE AND COLORS:
4"X8" ENGLISH EDGE
COLOR 1- English Edge Rose Full Range (Field)
COLOR 2- English Edge Ironspot (Banding)
COLOR 3- English Edge Buff (Accent)

CONTRACTOR SHALL PROVIDE SAMPLE MOCK-UP ON SITE OF COLOR SELECTIONS FOR REVIEW AND APPROVAL BY OWNER / LANDSCAPE ARCHITECT PRIOR TO CONSTRUCTION.

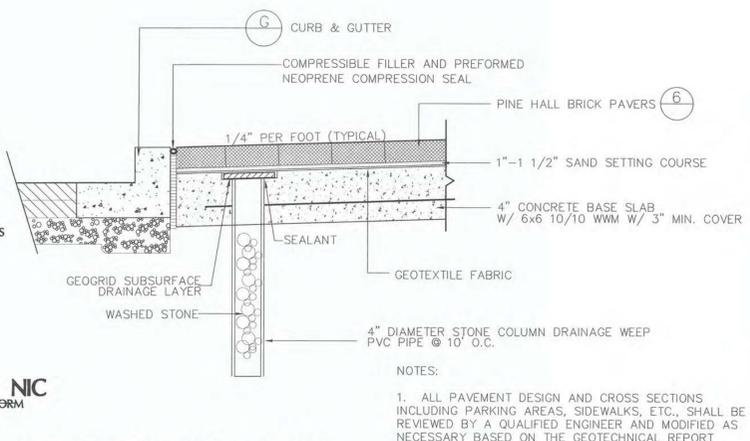
ALL VEHICULAR PAVER APPLICATIONS SHALL BE TYPE F 4" X 8" X 2-5/8" PAVERS

ALL PEDESTRIAN PAVER APPLICATIONS SHALL BE 4" X 8" X 2-1/4" PAVERS.



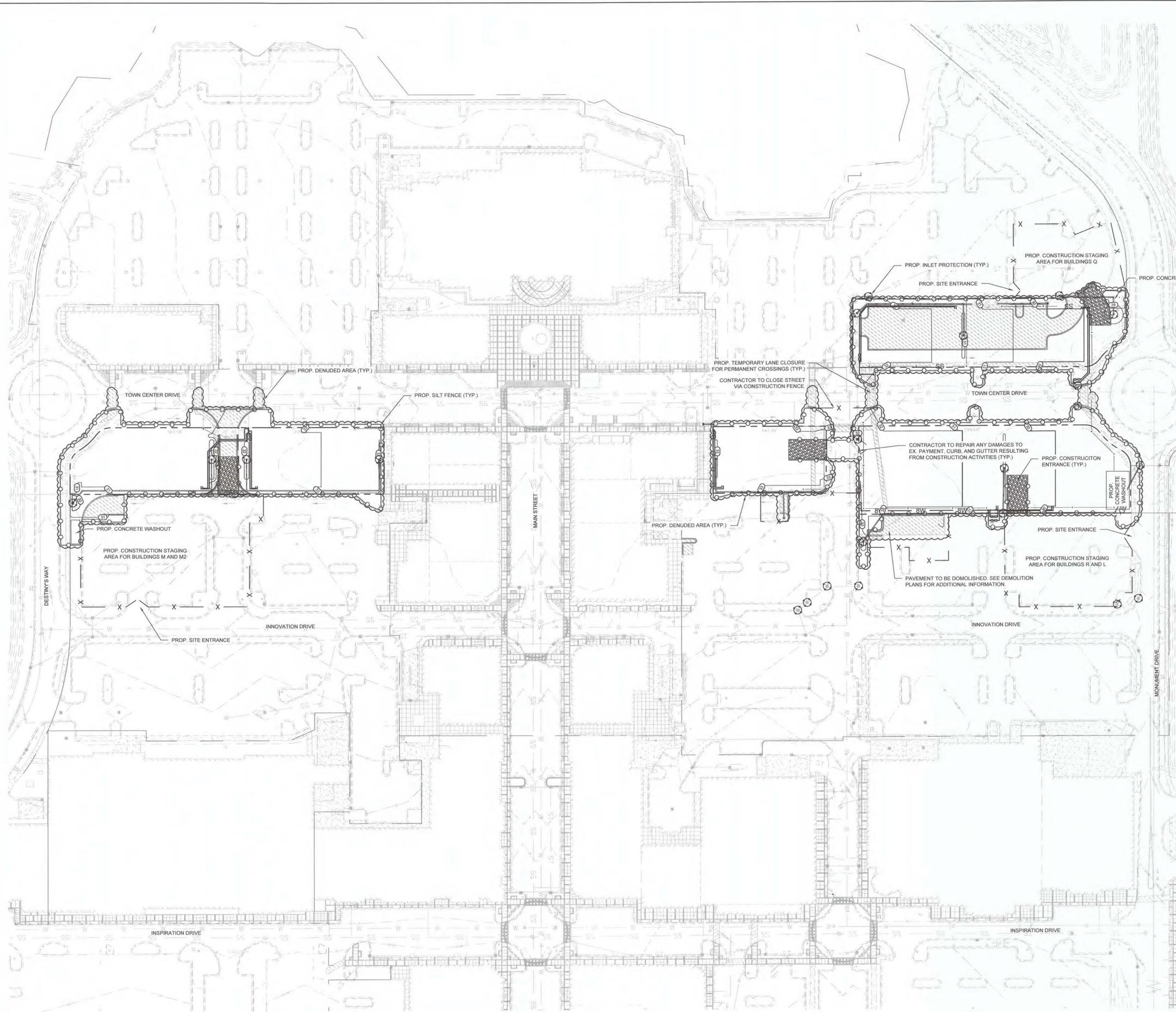
3 TREE WELL - Section C
SECTION

N.T.S.



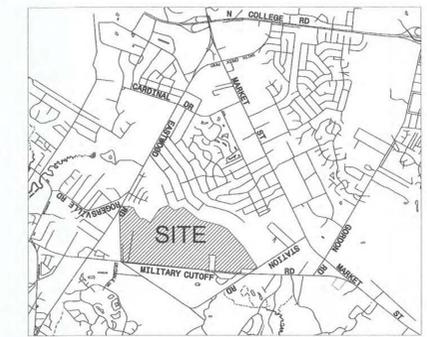
7 SUBDRAIN DETAIL
SECTION

N.T.S.



LEGEND:

| | |
|--|-----------------------------|
| | EX. GIS MINOR CONTOUR |
| | EX. GIS MAJOR CONTOUR |
| | EX. SURVEY MINOR CONTOUR |
| | EX. SURVEY MAJOR CONTOUR |
| | EX. LOT LINE |
| | PROP. GRADE MAJOR |
| | PROP. GRADE MINOR |
| | EX. CURB TO BE REMOVED |
| | PROP. STORM DRAINAGE |
| | PROP. SILT FENCE |
| | PROP. CONSTRUCTION FENCE |
| | PROP. INLET PROTECTION |
| | PROP. CONSTRUCTION ENTRANCE |
| | EX. PAVEMENT TO BE REMOVED |



VICINITY MAP NOT TO SCALE

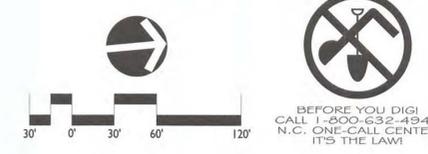
CONSTRUCTION SEQUENCE PHASE I:

- OBTAIN GRADING PERMIT AND ALL OTHER APPLICABLE PERMITS PRIOR TO ANY LAND DISTURBING ACTIVITY.
- FLAG THE CONSTRUCTION LIMITS AND MARK ANY TREES, WETLANDS, OR EXISTING STRUCTURES TO REMAIN.
- SCHEDULE A PRE-CONSTRUCTION MEETING WITH THE OWNER, ALL CONTRACTORS FOR LAND DISTURBANCE AND/OR EROSION CONTROL, AND EROSION CONTROL AUTHORITY PERSONNEL TO DISCUSS THE PROJECT AND THE EROSION CONTROL PLAN.
- INSTALL TEMPORARY CONSTRUCTION ENTRANCES, CONSTRUCTION FENCE, AND SILT FENCE. TIRE WASH MAY BE REQUIRED IF CONSTRUCTION ENTRANCE IS NOT SUFFICIENT TO RETAIN SOIL. SUB-CONTRACTOR TO BLOCK ALL POSSIBLE ENTRANCES TO SITE BESIDES APPROVED CONSTRUCTION ENTRANCE W/ FENCING AND ORANGE BARRELS.
- INSTALL INLET PROTECTION TO ALL EXISTING INLETS AS NOTED ON PLANS.
- INSTALL WASHOUT AREAS.
- CONTRACTOR SHALL ENSURE THAT EROSION CONTROL MEASURES ARE IN PLACE AND FUNCTIONING PRIOR TO DEMOLITION, GRUBBING, AND GRADING OPERATIONS.
- BEGIN GRADING AND DEMOLITION; INSTALLING ADDITIONAL EROSION CONTROL MEASURES AS INDICATED, AS REQUIRED, AND AS DEEMED NECESSARY BY THE EROSION CONTROL INSPECTOR.
- INSTALL UTILITIES AND STORMWATER SYSTEMS. DEMOLITION AND REPAIR PAVEMENT, CURB AND GUTTER AS NEEDED TO INSTALL THESE SYSTEMS. REFER TO DEMOLITION PLAN FOR MORE INFORMATION.
- ALL EROSION CONTROL DEVICES SHOULD BE CHECKED PERIODICALLY AND AFTER EVERY MAJOR STORM EVENT. IF ANY FAILURES ARE FOUND THEY SHOULD BE REPAIRED AS SOON AS POSSIBLE.
- STABILIZATION IS THE BEST FORM OF EROSION CONTROL. TEMPORARY SEEDING IS NECESSARY TO ACHIEVE EROSION CONTROL ON LARGE DENUDED AREAS AND ESPECIALLY WHEN SPECIFICALLY REQUIRED AS PART OF THE CONSTRUCTION SEQUENCE. ALL REMAINING AREAS TO BE SEEDED AND MULCHED WITHIN 21 CALENDAR DAYS. PERMANENT SEEDING WITHIN 15 WORKING DAYS OR 90 CALENDAR DAYS.
- NO DEVICE SHALL BE REMOVED UNTIL SITE IS STABILIZED.
- ANY Dewatering discharges will be done outside and away from any wetlands discharge locations shall be directed to stabilized upland natural ground areas. ALL DISCHARGE WILL INFILTRATE INTO THE SOIL. ASSURE DRAINAGE HAS OVERLAND FLOW OVER GRASSY AREAS PRIOR TO CATCHMENT.
- NEW HANOVER COUNTY ENGINEERING
230 MARKET PLACE DRIVE - SUITE 160
WILMINGTON, N.C. 28403
TEL: (910) 798-7139
CONTACT: BETH EASLEY-WETHERILL

MAINTENANCE PLAN:

- ALL EROSION AND SEDIMENT CONTROL PRACTICES WILL BE CHECKED FOR STABILITY AND OPERATION FOLLOWING EVERY RAINFALL-PRODUCING RAINFALL, BUT IN NO CASE LESS THAN ONCE EVERY WEEK. ANY NEEDED REPAIRS WILL BE MADE IMMEDIATELY TO MAINTAIN ALL PRACTICES AS DESIGNED.
- ALL CONSTRUCTION ENTRANCES WILL BE PERIODICALLY TOPRESSED WITH AND ADDITIONAL TWO (2) INCHES OF #4 STONE TO MAINTAIN PROPER DEPTH. ANY SEDIMENT THAT IS TRACKED INTO THE STREET WILL BE IMMEDIATELY REMOVED.
- SEDIMENT WILL BE REMOVED FROM BEHIND THE SEDIMENT FENCE, WHEN IT BECOMES 0.5 FEET DEEP AT THE FENCE. THE SEDIMENT FENCE WILL BE REPAIRED AS NECESSARY TO MAINTAIN A BARRIER.
- ALL SEEDED AREAS WILL BE FERTILIZED, RESEEDED AS NECESSARY, AND MULCHED ACCORDING TO SPECIFICATIONS IN THE VEGETATIVE PLAN TO MAINTAIN A VIGOROUS, DENSE VEGETATIVE COVER.

DENUDED AREA= 3.63 AC

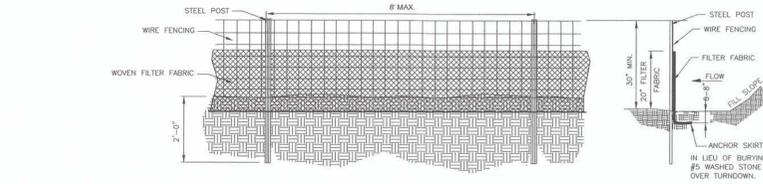


BEFORE YOU DIG
CALL 1-800-632-4949
N.C. ONE-CALL CENTER
IT'S THE LAW!



REVISIONS:

DATE: 12/02/2015
DESIGNED BY: DWC
DRAWN BY: DMC
CHECKED BY: DGG
SCALE: 1"=60'
PROJECT #: 1015249



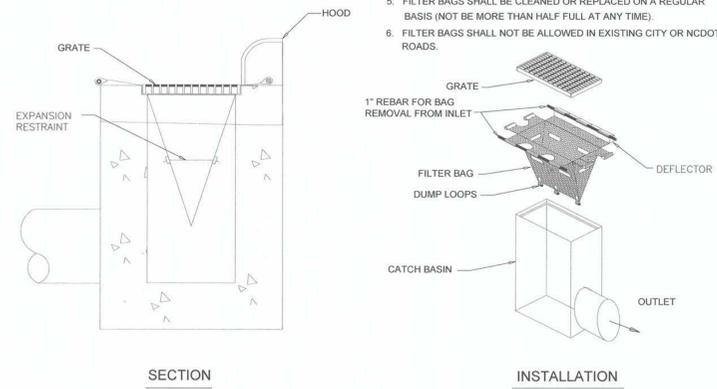
- GENERAL NOTES:**
1. FILTER FABRIC FENCE SHALL BE A MINIMUM OF 30" IN WIDTH AND SHALL HAVE A MINIMUM OF 6 LINE WIRES WITH 12" STAY SPACING.
 2. WOVEN FILTER FABRIC TO BE USED WHERE SILT FENCE IS TO REMAIN FOR A PERIOD OF MORE THAN 30 DAYS.
 3. STEEL POSTS SHALL BE 5'-0" IN HEIGHT AND BE OF THE SELF-FASTENER ANGLE STEEL TYPE.
 4. WIRE FENCING SHALL BE AT LEAST #10 GAGE WITH A MINIMUM OF 6 LINE WIRES WITH 12" STAY SPACING.
 5. TURN SILT FENCE UP SLOPE AT ENDS.
 6. WIRE MESH SHALL BE MIN. 13 GAGE WITH MAXIMUM 12" OPENINGS.
 7. WIRE AND WASHED STONE WILL BE REQUIRED AND NOTED ON PLANS WHEN:
 - A. AT TOE OF SLOPES GREATER THAN 10 FEET VERTICAL (2:1 SLOPE)
 - B. AT DENUDED LIMITS WHERE AN UNDISTURBED BUFFER IS 50 FEET OR LESS AWAY.
 8. ORANGE SAFETY FENCE IS REQUIRED AT BACK OF SILT FENCE WHEN GRADING IS ADJACENT TO SWIM BUFFERS, STREAMS OR WETLANDS (REFER TO SWIM BUFFER GUIDELINES), THE COLOR ORANGE IS RESERVED FOR VISUAL IDENTIFICATION OF ENVIRONMENTALLY SENSITIVE AREAS.
 9. DRAINAGE AREA CAN NOT BE GREATER THAN 1/4 ACRE PER 100FT OF FENCE. SLOPE LENGTHS CAN NOT EXCEED CRITERIA SHOWN IN TABLE 6.62A NORTH CAROLINA EROSION AND SEDIMENT CONTROL PLANNING AND DESIGN MANUAL.
 10. DO NOT INSTALL SEDIMENT FENCE ACROSS STREAMS, DITCHES, WATERWAYS OR OTHER AREAS OF CONCENTRATED FLOW.

- MAINTENANCE NOTES:**
1. FILTER BARRIERS SHALL BE INSPECTED BY THE FINANCIALLY RESPONSIBLE PARTY OR HIS AGENT IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REPAIRS NEEDED SHALL BE MADE IMMEDIATELY.
 2. SHOULD THE FABRIC DECOMPOSE OR BECOME INEFFECTIVE PRIOR TO THE END OF THE EXPECTED USABLE LIFE AND THE BARRIER STILL IS NECESSARY, THE FABRIC SHALL BE REPLACED PROMPTLY.
 3. SEDIMENT DEPOSITS SHOULD BE REMOVED WHEN DEPOSITS REACH APPROX. HALF THE HEIGHT OF THE BARRIER. ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE SILT FENCE IS REMOVED SHALL BE DRESSED TO CONFORM TO THE EXISTING GRADE, PREPARED AND SEEDED.

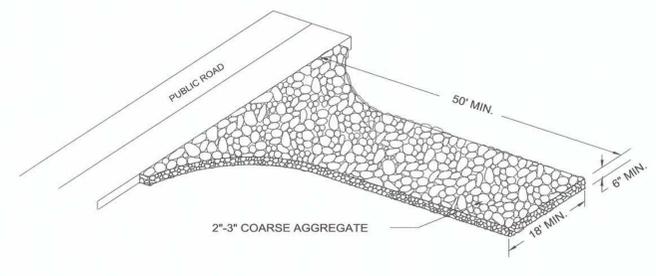
HIGH HAZARD TEMPORARY SILT FENCE
N.T.S.

NOTES

1. INLET MAINTENANCE SHALL BE DOCUMENTED IN PROJECT LOG BOOK.
2. FILTER TYPES SHALL BE APPROVED BY THE CITY INSPECTOR PRIOR TO INSTALLATION.
3. FILTER BAGS MAY BE REMOVED WHEN SITE IS STABILIZED AT THE DIRECTION OF THE ENGINEER.
4. FILTER BAGS SHALL BE CLEANED PRIOR TO STREET ACCEPTANCE.
5. FILTER BAGS SHALL BE CLEANED OR REPLACED ON A REGULAR BASIS (NOT BE MORE THAN HALF FULL AT ANY TIME).
6. FILTER BAGS SHALL NOT BE ALLOWED IN EXISTING CITY OR NCDOT ROADS.



SILT SACK INLET PROTECTION DETAIL
(NOT TO SCALE)



- GENERAL NOTES FOR CONSTRUCTION ENTRANCE:**
1. A STABILIZED ENTRANCE PAD OF #5 WASHED STONE OR RAIL ROAD BALLAST SHALL BE LOCATED WHERE TRAFFIC WILL ENTER OR LEAVE THE CONSTRUCTION SITE ONTO A PUBLIC STREET.
 2. FILTER FABRIC OR COMPACTED CRUSHER RUN STONE SHALL BE USED AS A BASE FOR THE CONSTRUCTION ENTRANCE.
 3. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC STREETS OR EXISTING PAVEMENT. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEAN OUT OF ANY MEASURES USED TO TRAP SEDIMENT.
 4. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC STREETS MUST BE REMOVED IMMEDIATELY.
 5. WHEN APPROPRIATE, WHEELS MUST BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTERING A PUBLIC STREET. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE.

STABILIZED CONSTRUCTION ENTRANCE
NOT TO SCALE

EROSION CONTROL NOTES:

1. ALL PROPOSED CONTOURS AND SPOT ELEVATIONS REFLECT ROUGH GRADES.
2. ALL ELEVATIONS ARE IN REFERENCE TO THE SURVEYORS BENCHMARK WHICH MUST BE VERIFIED BY THE GENERAL CONTRACTOR PRIOR TO GROUND BREAKING.
3. ALL EROSION CONTROL MEASURES SHALL BE IN ACCORDANCE WITH THE N.C. EROSION AND SEDIMENT CONTROL PLANNING AND DESIGN MANUAL.
4. PERMANENT CUT AND FILL SLOPES PLACED ON A SUITABLE FOUNDATION SHOULD BE CONSTRUCTED AT 2:1 (HORIZONTAL TO VERTICAL) OR FLATTER. PERMANENT SLOPES OF 3:1 SHOULD BE CONSTRUCTED WHERE MOUING IS DESIRABLE AND AS INDICATED.
5. IF FILL MATERIAL IS THE PROPERTY OR WASTE MATERIAL IS Hauled FROM THE PROPERTY THEN THE CONTRACTOR SHALL DISCLOSE THE LOCATION OF ANY ON-SITE AND/OR OFF-SITE BORROW LOCATION AND/OR WASTE BURIAL LOCATION TO THE EROSION CONTROL INSPECTOR.
6. REFER TO PAVEMENT CROSS-SECTION DATA TO ESTABLISH CORRECT SUB-BASE OR AGGREGATE BASE COURSE ELEVATIONS TO BE COMPLETED UNDER THIS CONTRACT.
7. LIMITS OF CLEARING SHOWN ARE BASED ON CUT AND FILL SLOPES OR OTHER GRADING REQUIREMENTS.
8. ANY GRADING BEYOND THE LIMITS OF CONSTRUCTION SHOWN ON THIS PLAN IS SUBJECT TO A FINE.
9. STABILIZATION IS THE BEST FORM OF EROSION CONTROL. TEMPORARY SEEDING IS NECESSARY TO ACHIEVE EROSION CONTROL ON DENUDED AREAS AND ESPECIALLY WHEN THE CONSTRUCTION SEQUENCE REQUIRES IT. ALL DENUDED AREAS ARE TO BE SEEDED OR LANDSCAPED WITHIN 14 CALENDAR DAYS.
10. CONTRACTOR SHALL INSTALL ALL EROSION CONTROL MEASURES AS INDICATED PRIOR TO GRADING OPERATIONS. NO DEVICE MAY BE REMOVED UNTIL SITE IS STABILIZED.
11. ALL DISTANCES ARE HORIZONTAL UNLESS NOTED OTHERWISE.
12. GRADING MORE THAN 1 ACRE WITHOUT AN APPROVED EROSION CONTROL PLAN IS A VIOLATION AND SUBJECT TO A FINE.
13. SOIL TYPES: L6 - LEON To - TORHINTA W - WRIGHTSBORO
14. ALL DISTANCES ARE HORIZONTAL UNLESS NOTED OTHERWISE.
15. SITE IS LOCATED IN THE HOWE CREEK & BRADLEY CREEK WATERSHED AREAS (GWA).
16. CONTRACTOR SHALL VERIFY SPOTS AND NOTIFY THE ENGINEER IMMEDIATELY OF ANY GRADE DISCREPANCIES PRIOR TO POURING ANY CURB & GUTTER OR PAVE ANY AREAS THAT MAY BE QUESTIONED.
17. TOTAL SITE AREA: 2.67 AC
TOTAL DENUDED AREA: 33.63 AC
18. CONTRACTOR IS RESPONSIBLE FOR MONITORING THE EROSION CONTROL WORK DURING THE COURSE OF CONSTRUCTION TO INSURE THAT ALL WORK HAS BEEN PROPERLY INSTALLED AND MAINTAINED.

ADDITIONAL GENERAL NOTES:

1. LAND DEVELOPMENT INSPECTOR TO BE GIVEN 24 HOURS NOTICE PRIOR TO START OF CONSTRUCTION.
2. COORDINATE ALL CURB AND STREET GRADES IN HANDICAP WITH INSPECTOR.
3. ALL ROAD IMPROVEMENTS TO BE COORDINATED WITH ENGINEERING DEPARTMENT PRIOR TO CONSTRUCTION.
4. DEVELOPER WILL PROVIDE STREET SIGNS (9" SIGNS ONLY).
5. SIGHT TRIANGLES ARE THE MINIMUM REQUIRED.
6. IN ROLLING AND HILLY TERRAIN, SWEEPING OF THE STONE BASE AND/OR APPLICATION OF A TACK COAT MAY BE REQUIRED NEAR INTERSECTIONS. THESE REQUIREMENTS WILL BE ESTABLISHED BY THE INSPECTOR BASED ON FIELD CONDITIONS.
7. APPROVAL OF THIS PLAN IS NOT AN AUTHORIZATION TO GRADE ADJACENT PROPERTIES. WHEN FIELD CONDITIONS WARRANT APPROVAL OF GRADING, PERMISSION MUST BE OBTAINED FROM THE ADJACENT PROPERTY OWNERS AND NEW HANOVER COUNTY EROSION CONTROL OFFICE.
8. IN ORDER TO ENSURE PROPER DRAINAGE, KEEP A MINIMUM OF 0.5% SLOPE ON THE CURB.
9. SUBSURFACE DRAINAGE FACILITIES MAY BE REQUIRED IN THE STREET RIGHT-OF-WAY IF DEEMED NECESSARY BY THE INSPECTOR.
10. PIPE SYSTEMS LOCATED WITHIN PERMANENT STORM DRAINAGE EASEMENTS IN THE (CITY/COUNTY) ARE TO BE MAINTAINED BY THE (CITY/COUNTY) IN AN "ON-CALL" MANNER. THE (CITY/COUNTY) WILL NEITHER BE RESPONSIBLE.
11. ANY BUILDING WITHIN THE 100+1 BUILDING RESTRICTION FLOOD LINE IS SUBJECT TO THE RESTRICTIONS OF THE (CITY OF WILMINGTON/NEW HANOVER COUNTY) SUBDIVISION ORDINANCE, SECTION 7.200.8. ANY CONSTRUCTION OR USE WITHIN THE AREAS DELINEATED AS FLOODWAY DISTRICT FRINGE BOUNDARY LINE OR FLOODWAY DISTRICT ENCROACHMENT BOUNDARY LINE IS SUBJECT TO THE RESTRICTIONS IMPOSED BY THE FLOODWAY REGULATIONS OF THE CITY OF WILMINGTON AND NEW HANOVER COUNTY.
12. ALL OPENINGS (E.G., DOORS, WINDOWS, VENTS) IN STRUCTURES BUILT ON LOTS (NONE) SHOULD BE LOCATED A MINIMUM OF ONE FOOT ABOVE THE ADJACENT FINISHED GROUND SURFACE. (APPLIES TO LOTS WHICH MAY EXPERIENCE SIGNIFICANT OVERLAND FLOW NOT CONSIDERED IN THE 100+1 FLOOD ANALYSIS.)
13. THE (CITY OF WILMINGTON/NEW HANOVER COUNTY) ENGINEERING DEPARTMENT HAS NOT REVIEWED THE STRUCTURAL STABILITY OF ANY RETAINING WALLS ON THE SITE AND DOES NOT ASSUME RESPONSIBILITY FOR THEM.

SPECIAL CONDITIONS

1. ALL THE SOIL EROSION CONTROL MEASURES WILL BE INSTALLED AS THE SITE IS CLEARED AND MAINTAINED THROUGHOUT CONSTRUCTION.
2. THIS PERMIT DOES NOT PRECLUDE ANY PERMITS OR APPROVALS WHICH MAY BE NECESSARY SUCH AS DEM WATER QUALITY, C.A.M.A., THE CORPS OF ENGINEERS, DEM SOIL WASTE OR ANY OTHER AGENCIES.
3. NO SEDIMENT SHALL LEAVE THE SITE OR ENTER THE WETLANDS IN ANY EVENT.
4. IF PLAN REVISIONS ARE NECESSARY YOU MUST SUBMIT A COPY TO THE NEW HANOVER COUNTY EROSION CONTROL OFFICE FOR APPROVAL PRIOR TO ANY FIELD CHANGES.
5. IF SOIL IS REMOVED FROM THE SITE, IT MUST BE TAKEN TO AN APPROVED OR PERMITTED SITE TO BE IDENTIFIED BY THE NEW HANOVER COUNTY EROSION CONTROL OFFICE PRIOR TO REMOVAL FROM THE SITE.
6. ALL CITY AND STATE DRAINAGE AND STORMWATER REQUIREMENTS WILL BE ADHERED TO.
7. IF THESE MEASURES FAIL TO ADEQUATELY CONTROL EROSION, MORE RESTRICTIVE MEASURES WILL BE REQUIRED.
8. IF ANY PHASE OF GRADING CEASES FOR MORE THAN 14 CALENDAR DAYS, THE SITE WILL BE TEMPORARILY STABILIZED.
9. THE APPROVAL OF AN EROSION CONTROL PLAN IS CONDITIONED ON THE APPLICANTS COMPLIANCE WITH FEDERAL AND STATE WATER QUALITY LAWS, REGULATIONS AND RULES.
10. ALL SLOPES WILL BE STABILIZED WITHIN 14 CALENDAR DAYS OF CEASE OF ANY ACTIVITY INCLUDING BERMS.

STABILIZATION NOTES

1. ALL SLOPES WILL BE STABILIZED WITHIN 14 CALENDAR DAYS.

SEEDING SPECIFICATION

GENERAL
SEEDING CAN BE USED FOR TEMPORARY OR PERMANENT STABILIZATION. DISTURBED AREAS OF THE SITE WHERE CONSTRUCTION ACTIVITY HAS CEASED FOR MORE THAN 14 DAYS (OR MORE FREQUENT IF REQUIRED BY THE STATE NPDES PERMIT) SHALL BE TEMPORARILY SEEDED AND WATERED. AREAS WHERE FINAL GRADING HAS BEEN COMPLETED FOR MORE THAN 14 DAYS SHALL BE TEMPORARILY OR PERMANENTLY SEEDED. ALL DISTURBED AREAS ON SLOPES GREATER THAN 3:1 MUST BE TEMPORARILY SEEDED AFTER 7 DAYS. ALL PERIMETER DIKES, SWALES, DITCHES AND SLOPES MUST BE TEMPORARILY SEEDED AFTER 7 DAYS. TEMPORARY SEED MIXTURES ARE SPECIFIED BELOW. PERMANENT SEED MIXTURES SHALL BE SEEDED DURING SEASON SPECIFIED.

PERMANENT SEEDING SPECIFICATIONS - (PS)

LOW MAINTENANCE AREAS
STEEP SLOPES OR STONY, SHALLOW OR DRY SOILS

| DATES | TYPE | RATE |
|--------------------|-------------------------------------|--------------------------|
| AUG. 25 - SEPT. 15 | TALL FESCUE | 100 LB/ACRE |
| FEB. 15 - MAR. 21 | SERICEA LESPEDEZA KOBE LESPEDEZA | 30 LB/ACRE 10 LB/ACRE |

GENTLE SLOPES, AVERAGE SOILS

| DATES | TYPE | RATE |
|--------------------|-------------------------------------|--------------------------|
| AUG. 25 - SEPT. 15 | TALL FESCUE | 80 LB/ACRE |
| FEB. 15 - MAR. 21 | SERICEA LESPEDEZA KOBE LESPEDEZA | 20 LB/ACRE 10 LB/ACRE |

HIGH MAINTENANCE AREAS

GENTLE SLOPES, SOILS WITH AVERAGE OR BETTER MOISTURE, COOL SITES

| DATES | TYPE | RATE |
|--------------------|---|-------------------|
| AUG. 25 - SEPT. 15 | BLEND OF TWO TURF-TYPE TALL FESCUES (90%) AND TWO OR MORE KENTUCKY BLUEGRASS VARIETIES (10%) | 200 - 250 LB/ACRE |

GENTLE SLOPES, DRIER SOILS, PHYSICAL LIMITATIONS

| DATES | TYPE | RATE |
|--------------------|---|-------------------|
| AUG. 25 - SEPT. 15 | BLEND OF 50% KY-31 TALL FESCUE AND 50% MIXTURE OF TWO OR MORE TURF TYPE TALL FESCUES | 200 - 250 LB/ACRE |

GRASS-LINED CHANNELS, AVERAGE SOILS

| DATES | TYPE | RATE |
|----------------|-------------|------------------------------------|
| AUG. 25 - OCT. | TALL FESCUE | 200 LB/ACRE OR 4 - 5 LB/1000 SF |

GRASS-LINED CHANNELS, DRY SOILS

| DATES | TYPE | RATE |
|--------------------|--|--|
| APRIL 15 - JUNE 30 | ANNUAL RYE PLANTED WITH PERMANENT SEEDING OF FESCUES IN FALL | 40 - 80 LB/ACRE OR 1 - 2 LB/1000 SF |

AMENDMENTS SHALL BE APPLIED AT THE RATE OF 4000 LB/ACRE OF GROUND AGRICULTURAL LIMESTONE AND 1000 LB/ACRE OF 10-10-10 FERTILIZER. DRY SOIL, GRASS-LINED CHANNELS SHALL USE 3000 LB/ACRE OF GROUND AGRICULTURAL LIMESTONE AND 500 LB/ACRE OF 10-10-10 FERTILIZER. MULCH SHALL BE APPLIED AT THE RATE OF 4000 LB/ACRE OF STRAW. STRAW SHALL BE ANCHORED BY TACKING WITH MULCH ANCHORING TOOL. TACKING USES LIQUID MULCH BINDERS TO ANCHOR HAY OR STRAW MULCHES. THESE VEGETABLE-BASED TRACKERS ARE NATURAL ORGANIC INGREDIENTS THAT ACT AS "GLUE" TO HOLD THE STRAW IN PLACE. TACK IS APPLIED BY THE HYDROSEEDER ALONG WITH WOOD FIBER MULCH AND WATER. WOOD FIBER MULCH ACTS AS AN ADDITIONAL BINDER, AND WITH ITS HARMLESS TEMPORARY GREEN DYE, PROVIDES OUR INSTALLERS WITH A VISUAL GUIDE TO ASSURE UNIFORM COVERAGE. JUTE OR EXCELSIOR MATTING SHALL BE USED IN GRASS LINED CHANNELS TO CALCULATED HIGH WATER DEPTH.

TEMPORARY SEEDING SPECIFICATIONS - (TS)

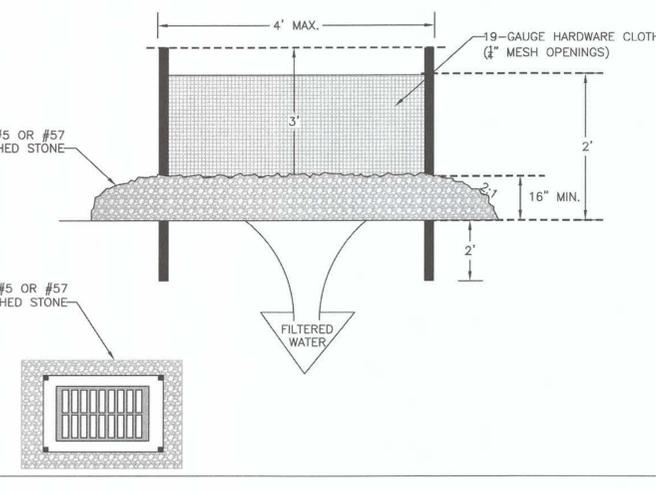
| DATES | TYPE | RATE | AMENDMENTS |
|-------------------|-----------------------------|-------------|---|
| JAN. 1 - MAY 1 | RYE (GRAIN) | 120 LB/ACRE | 2000 LB/ACRE GROUND AGRICULTURAL LIME-STONE AND 750 LB ACRE OF 10-10-10 FERTILIZER |
| FEB. 15 - MAR. 21 | ANNUAL LESPEDEZA OR LOBE | 50 LB/ACRE | |

| DATES | TYPE | RATE | AMENDMENTS |
|-----------------|---------------|------------|---|
| MAY 1 - AUG. 15 | GERMAN MILLET | 40 LB/ACRE | 2000 LB/ACRE GROUND AGRICULTURAL LIME-STONE AND 750 LB ACRE OF 10-10-10 FERTILIZER |

| DATES | TYPE | RATE | AMENDMENTS |
|-------------------|-------------|-------------|--|
| AUG. 15 - DEC. 30 | RYE (GRAIN) | 120 LB/ACRE | 2000 LB/ACRE GROUND AGRICULTURAL LIME-STONE AND 1000 LB ACRE OF 10-10-10 FERTILIZER |

GENERAL NOTES:

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 THE WIRE MESH UNDER THE GRAVEL FOR ANCHORING IS RECOMMENDED.
4. PLACE CLEAN GRAVEL (NC DOT #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 GROUND COVER.



TEMPORARY FABRIC DROP INLET PROTECTION
NOT TO SCALE

HYDROSEEDING APPLICATION: TWO STEP PROCESS

| LB/AC | MATERIAL |
|-----------|--|
| 2,000 LBS | 100% CELLULOSE OR WOOD FIBER |
| 500 LBS | FERTILIZER (FERTILIZER 10-10-10) |
| — LBS | SEED AS PER SECTION (FOLLOW SEEDING SPECIFICATION) |

GENERAL:
A. ALL HYDROSEED APPLICATIONS ARE TO BE APPLIED IN A SHEEPING MOTION TO FORM A UNIFORM APPLICATION AND FORM A MAT AT THE SPECIFIED RATES.
B. UNUSED LOADS: IF MIXTURE REMAINS IN TANK FOR MORE THAN 8 HOURS IT SHALL BE REMOVED FROM THE JOB SITE AT CONTRACTOR'S EXPENSE.

- STEP 1 - 1/2 MULCH, ALL SEEDING AND ALL INOCULANT SPREAD IN ONE DIRECTION
- STEP 2 - 1/2 MULCH RATE APPLIED IN OPPOSING DIRECTION

SEED BED PREPARATION (PERMANENT SEEDING)

SURFACE WATER CONTROL MEASURES SHALL BE IN PLACE. AREA TO BE SEEDED SHALL BE RIPPED AND SPREAD WITH AVAILABLE TOPSOIL. TOTAL SEEDED PREPARED DEPTH SHOULD BE AT LEAST 4 INCHES. LOOSE ROCKS, ROOTS AND OTHER OBSTRUCTIONS NEED TO BE REMOVED FROM THE SURFACE SO THAT THEY WILL NOT INTERFERE WITH THE ESTABLISHMENT AND MAINTENANCE OF VEGETATION. SURFACE FOR FINAL SEEDED PREPARATION SHOULD BE AT FINISH GRADE AND BE REASONABLY SMOOTH AND UNIFORM.

IF NO SOIL TEST IS TAKEN, FERTILIZER AND LIME SHOULD BE ACCORDING TO SEEDING SPECIFICATIONS. IF SOIL TEST IS TAKEN, APPLY FERTILIZER AND LIME ACCORDING TO SOIL TEST REPORT. FERTILIZER AND LIME SHALL BE APPLIED UNIFORMLY AND MIXED WITH THE SOIL DURING SEEDED PREPARATION. WEIGHTS, SEED SPECIES AND RATE AS A PERCENTAGE OF PURITY AND GERMINATION MUST BE CHECKED PRIOR TO SEEDING.

SEEDING SHALL BE ACCOMPLISHED IN TWO DIRECTIONS AND AT RIGHT ANGLES TO EACH OTHER. LAWN AREAS SHALL BE SEEDED AT THE RATE INDICATED ON THE DRAWINGS BY SOWING EVENLY WITH AN APPROVED MECHANICAL CULTIPACKER SEEDER TO COVER THE SEED AND FORM THE SEEDED IN ONE OPERATION. IF BROADCAST SEEDER IS USED THE SEEDING RATE SHALL BE TWO (2) TIMES THE DRILL RATE. IN INACCESSIBLE AREAS, THE SEED SHALL BE LIGHTLY RAKED WITH FLEXIBLE RAKES AND ROLLED WITH A WATER BALAST ROLLER. AFTER ROLLING SEEDED AREAS ARE TO BE MULCHED ACCORDING TO SPECIFICATION. IF HYDROSEED OPERATION IS USED, SEEDING RATE SHALL BE FIVE (5) TIMES THE DRILL RATE INDICATED ON THE DRAWINGS.

IF SEEDING CAN NOT BE ACCOMPLISHED DUE TO SEASONAL CONSTRAINTS, APPLY STRAW MULCH AND TACKIFIER TO ALL SLOPES AND DISTURBED AREAS UNTIL PERMANENT SEEDING IS ALLOWED. IN THE EVENT SEEDING OCCURS OUT OF SEASON, MAINTENANCE SHALL OCCUR AND CONTINUE INTO THE FOLLOWING GROWING SEASON OR UNTIL A UNIFORM STAND OF THE SPECIFIED PERMANENT GRASSES HAVE BEEN ESTABLISHED AND THE SITE HAS REACHED 85% STABILIZATION. PERMANENT AND TEMPORARY SEEDING SHALL BE ACCOMPLISHED THROUGHOUT THE CONSTRUCTION PROCESS.

INSPECTION

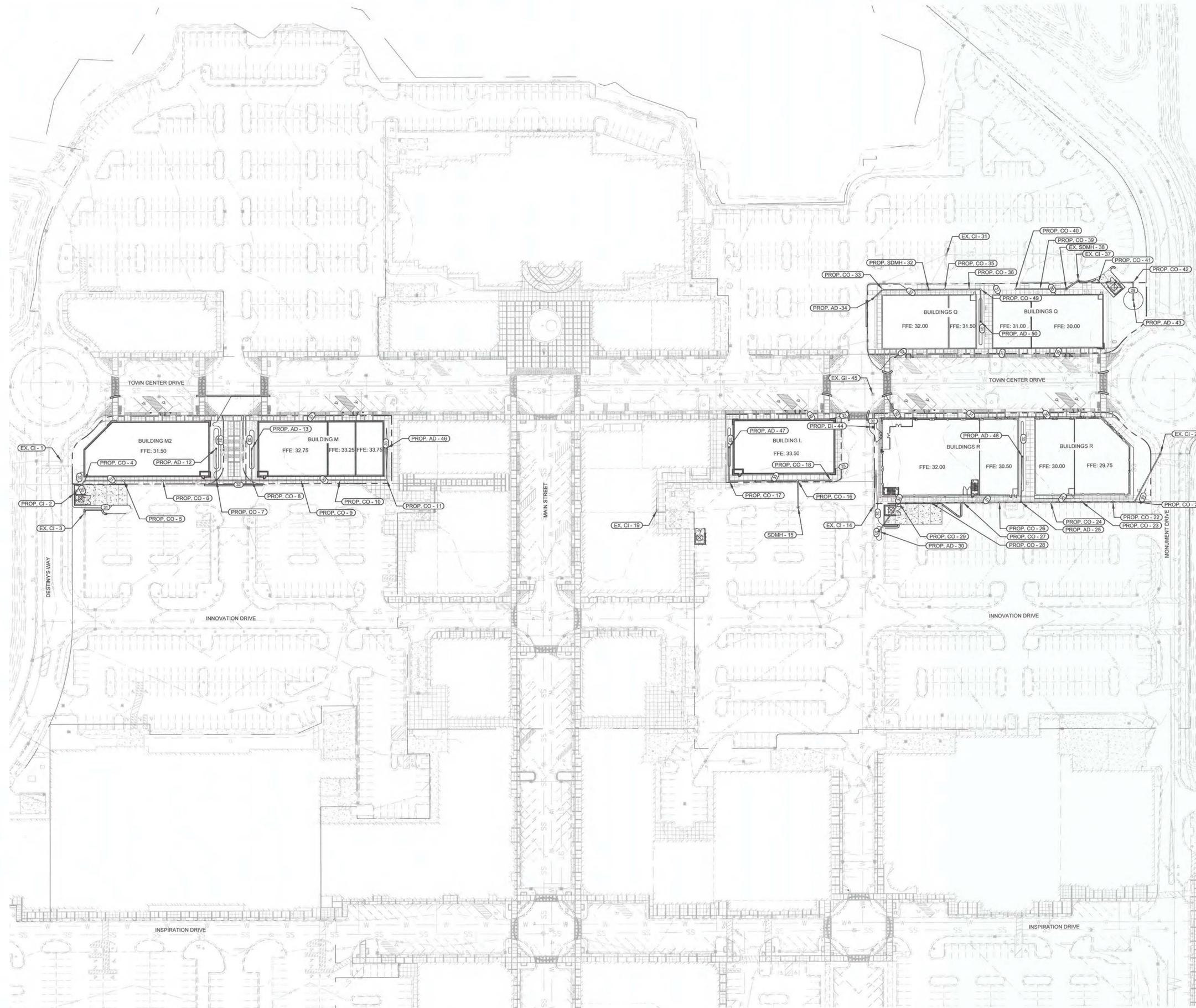
INSPECT SEEDED AREAS FREQUENTLY. IF SEEDED AREAS FAIL TO GERMINATE, OR TO PROVIDE ADEQUATE GROUND COVERAGE, THE AREA SHALL BE RE-SEEDED UNTIL FINAL STABILIZATION IS ACHIEVED. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSPECTED AT MINIMUM EVERY SEVEN (7) CALENDAR DAYS AND WITHIN 24-HOURS OF A RAINFALL EVENT OF 5 INCHES AND GREATER OF RAIN DURING A 24-HOUR PERIOD (OR MORE FREQUENTLY IF REQUIRED BY THE STATE NPDES GENERAL PERMIT) THROUGHOUT CONSTRUCTION UNTIL FINAL STABILIZATION IS ACHIEVED OR MORE FREQUENTLY IF REQUIRED BY STATE NPDES GENERAL PERMIT.

LandDesign
100 South Orange Ave., Suite 700
Orlando, FL 32801
V: 407.270.7800
www.LandDesign.com
NC Engineering Firm License # C-0658

LANDDESIGN INC.
CORPORATE SEAL
NORTH CAROLINA
DAVID G. GASTNER
REGISTERED PROFESSIONAL ENGINEER
SEAL 038607
12/17/15

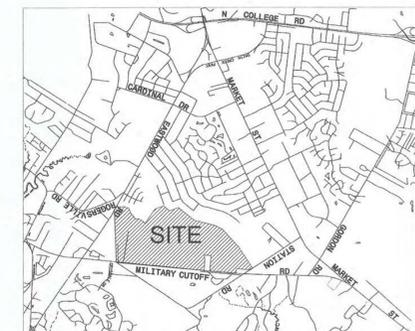
MAYFAIRE TOWN CENTER
PHASE III
WILMINGTON, NORTH CAROLINA
EROSION DETAILS

REVISIONS:
DATE: 12/02/2015
DESIGNED BY: DVC
DRAWN BY: DVC
CHECKED BY: DGG
SCALE: N.T.S.
PROJECT #: 1015249
SHEET #: C-3.2

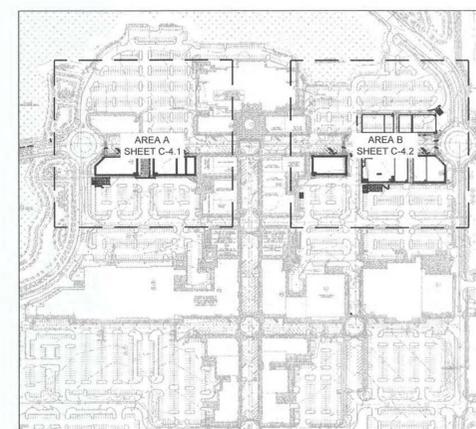


LEGEND:

| | |
|-----|--------------------------------|
| --- | EX. DRAINAGE EASEMENT |
| --- | EX. FENCE |
| --- | EX. STORM PIPE |
| --- | EX. OVERHEAD ELECTRIC |
| --- | EX. SANITARY SEWER |
| --- | EX. GAS LINE |
| --- | EX. FIBER OPTIC LINE |
| --- | EX. WATER LINE |
| --- | EX. GIS MINOR CONTOUR |
| --- | EX. GIS MAJOR CONTOUR |
| --- | EX. SURVEY MINOR CONTOUR |
| --- | EX. SURVEY MAJOR CONTOUR |
| --- | EX. LOT LINE |
| --- | PROP. GRADE MAJOR |
| --- | PROP. GRADE MINOR |
| --- | PROP. 8" WATER MAIN |
| --- | PROP. SANITARY SEWER |
| --- | PROP. STORM DRAINAGE |
| --- | EX. SANITARY SEWER MANHOLE |
| --- | EX. UTILITY POLE |
| --- | EX. STORM BOX |
| --- | EX. STORM MANHOLE |
| --- | EX. FIRE HYDRANT |
| --- | EX. WATER MANHOLE |
| --- | EX. WATER VALVE |
| --- | EX. GAS VALVE |
| --- | PROP. WATER VALVE |
| --- | PROP. WATER TEE |
| --- | PROP. SANITARY SEWER CLEANOUTS |
| --- | PROP. STORMWATER CURB INLET |



VICINITY MAP NOT TO SCALE



SITE LOCATION MAP N.T.S.



BEFORE YOU DIG
CALL 1-800-632-4949
N.C. ONE-CALL CENTER
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**MAYFAIRE TOWN CENTER
PHASE III
WILMINGTON, NORTH CAROLINA
OVERALL GRADING AND STORM DRAINAGE PLAN**

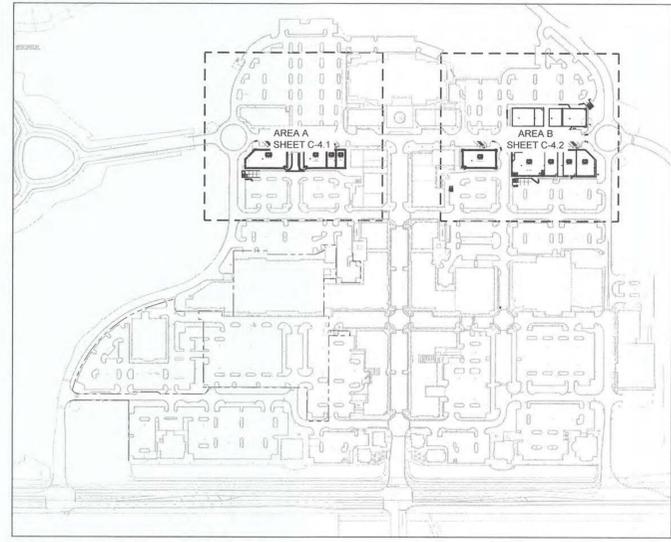
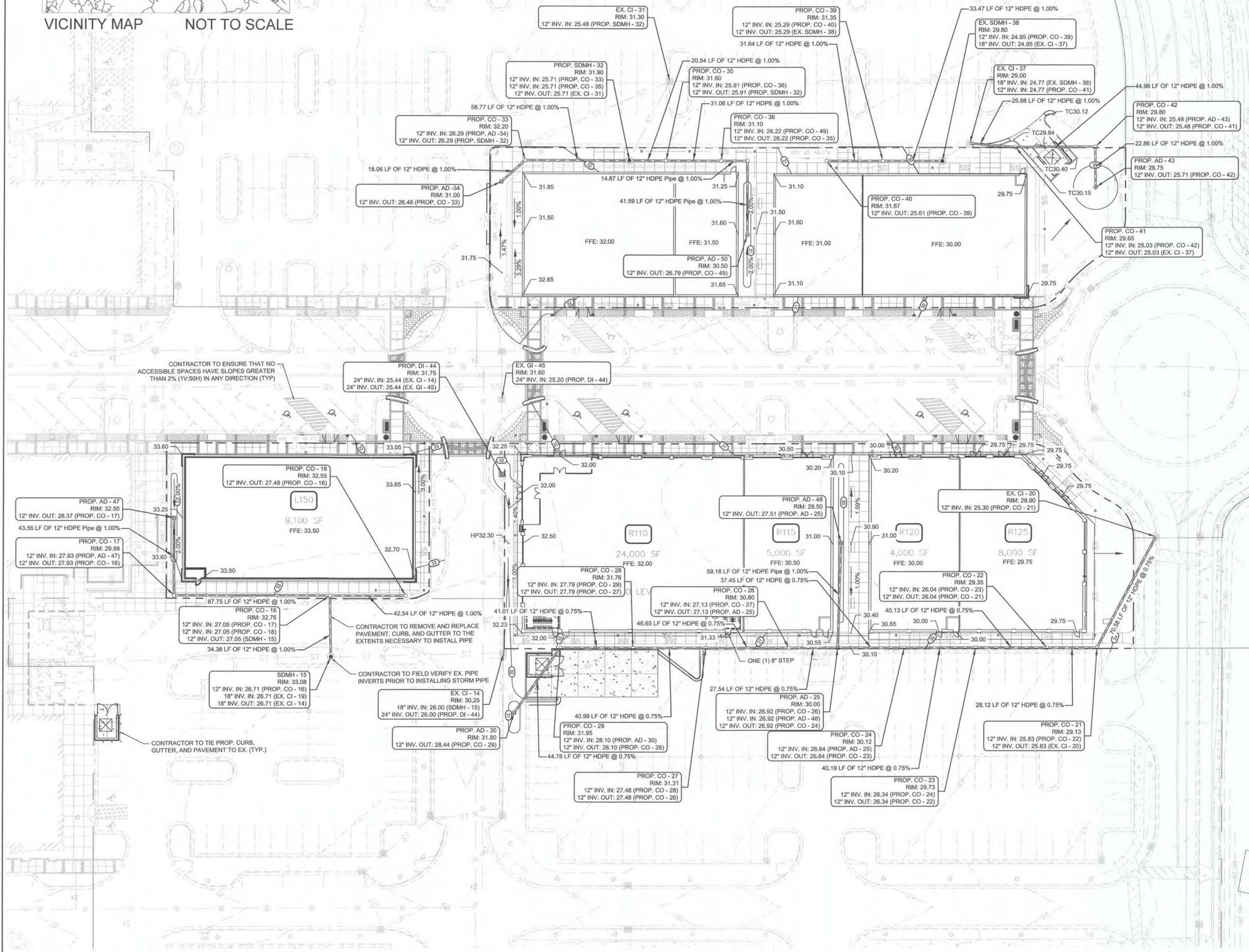
REVISIONS:
DATE: 12/02/2015
DESIGNED BY: DWC
DRAWN BY: DMC
CHECKED BY: DGG
SCALE: 1"=60'
PROJECT #: 1015249
SHEET #:
C-4.0



VICINITY MAP NOT TO SCALE

LEGEND:

| | | |
|-----|-----|--------------------------------|
| ST | ST | EX. DRAINAGE EASEMENT |
| OHU | OHU | EX. FENCE |
| SS | SS | EX. STORM PIPE |
| FD | FD | EX. OVERHEAD ELECTRIC |
| W | W | EX. SANITARY SEWER |
| | | EX. GAS LINE |
| | | EX. FIBER OPTIC LINE |
| | | EX. WATER LINE |
| | | EX. GIS MINOR CONTOUR |
| | | EX. GIS MAJOR CONTOUR |
| | | EX. SURVEY MINOR CONTOUR |
| | | EX. SURVEY MAJOR CONTOUR |
| | | EX. LOT LINE |
| | | PROP. GRADE MAJOR |
| | | PROP. GRADE MINOR |
| | | PROP. 8" WATER MAIN |
| | | PROP. SANITARY SEWER |
| | | PROP. STORM DRAINAGE |
| | | EX. SANITARY SEWER MANHOLE |
| | | EX. UTILITY POLE |
| | | EX. STORM BOX |
| | | EX. STORM MANHOLE |
| | | EX. FIRE HYDRANT |
| | | EX. WATER MANHOLE |
| | | EX. WATER VALVE |
| | | EX. GAS VALVE |
| | | PROP. WATER VALVE |
| | | PROP. WATER TEE |
| | | PROP. SANITARY SEWER CLEANOUTS |
| | | PROP. STORMWATER CURB INLET |



SITE LOCATION MAP N.T.S.

- GRADING & STORM DRAINAGE NOTES:**
- GRADES AND EXISTING STORM DRAINAGE SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL REPORT ANY DISCREPANCIES FROM THE PLAN THAT WILL AFFECT CONSTRUCTION, IN WRITING, TO THE ENGINEER AND AWAIT FURTHER INSTRUCTIONS.
 - PROPOSED CONTOURS AND SPOT ELEVATIONS ARE FINISHED SURFACE ELEVATIONS. SPOT ELEVATIONS DENOTE BOTTOM OF CURB WHEN LABEL IS ADJACENT TO CURB. THE GRADING CONTRACTOR SHALL DEDUCT PAVEMENT AND TOPSOIL THICKNESS FOR SUBGRADE ELEVATIONS REFER TO SITE DETAILS FOR ADDITIONAL INFORMATION.
 - A SOILS ENGINEER SHALL BE EMPLOYED BY THE CONTRACTOR TO DETERMINE THE SUITABILITY OR UNSUITABILITY OF SOILS DURING EARTHWORK OPERATIONS. CONDUCT TESTS AND MAKE RECOMMENDATIONS.
 - SOILS SHALL BE TESTED EVERY 4,000 SF OR LESS PER LIFT FOR EMBANKMENT AND BUILDING PAD CONSTRUCTION. THE CONTRACTOR SHALL FURNISH ALL TEST RESULTS IN A TIMELY MANNER.
 - PVC DENOTES POLYVINYL CHLORIDE PIPE. PVC SHALL BE SDR 40 AND COMPLY WITH ASTM D3034 SPECIFICATIONS. GRATES RATED FOR ROADWAY.
 - LANDSCAPE INLETS SHALL HAVE 12" TRAFFIC (ADS NYLOPLAST OR APPROVED ALTERNATE).
 - CONTRACTOR SHALL REFER TO THE APPROVED SEDIMENT & EROSION CONTROL PLAN FOR ANY ADDITIONAL REQUIREMENTS.
 - CONTRACTOR SHALL SAW-CUT EXISTING ASPHALT PAVEMENT TO PROVIDE SMOOTH TRANSITION AT TIE-IN.
 - TIC REFERS TO TOP OF CURB
 - B/C REFERS TO BOTTOM OF CURB
 - BP REFERS TO BREAK POINT
 - ALL ROOF DRAIN PIPES TO HAVE A MINIMUM OF 0.50% SLOPE
 - REFER TO SPECIFICATIONS FOR TYPE OF PAVING AND BASE TO BE USED.
 - CONTRACTOR SHALL ALLOW FOR ADJUSTMENTS OF CATCH BASIN GRATE AND RIM ELEVATIONS TO MATCH CONSTRUCTION AS NECESSARY.

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N.C. ONE-CALL CENTER
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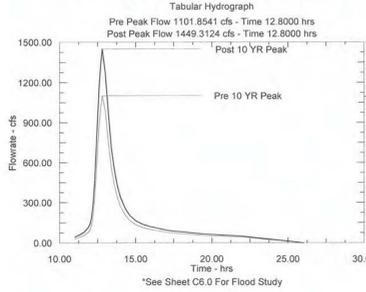
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MAYFAIRE TOWN CENTER
PHASE III
WILMINGTON, NORTH CAROLINA
GRADING AND STORM DRAINAGE PLAN AREA B

REVISIONS:
DATE: 12/02/2015
DRAWN BY: DDC
CHECKED BY: DGG
Q.C. BY: DGG
SCALE: 1"=30'
PROJECT #: 1015249
SHEET #:
C-4.2

TWO MILE BRANCH, EASTWOOD RD, 10YR

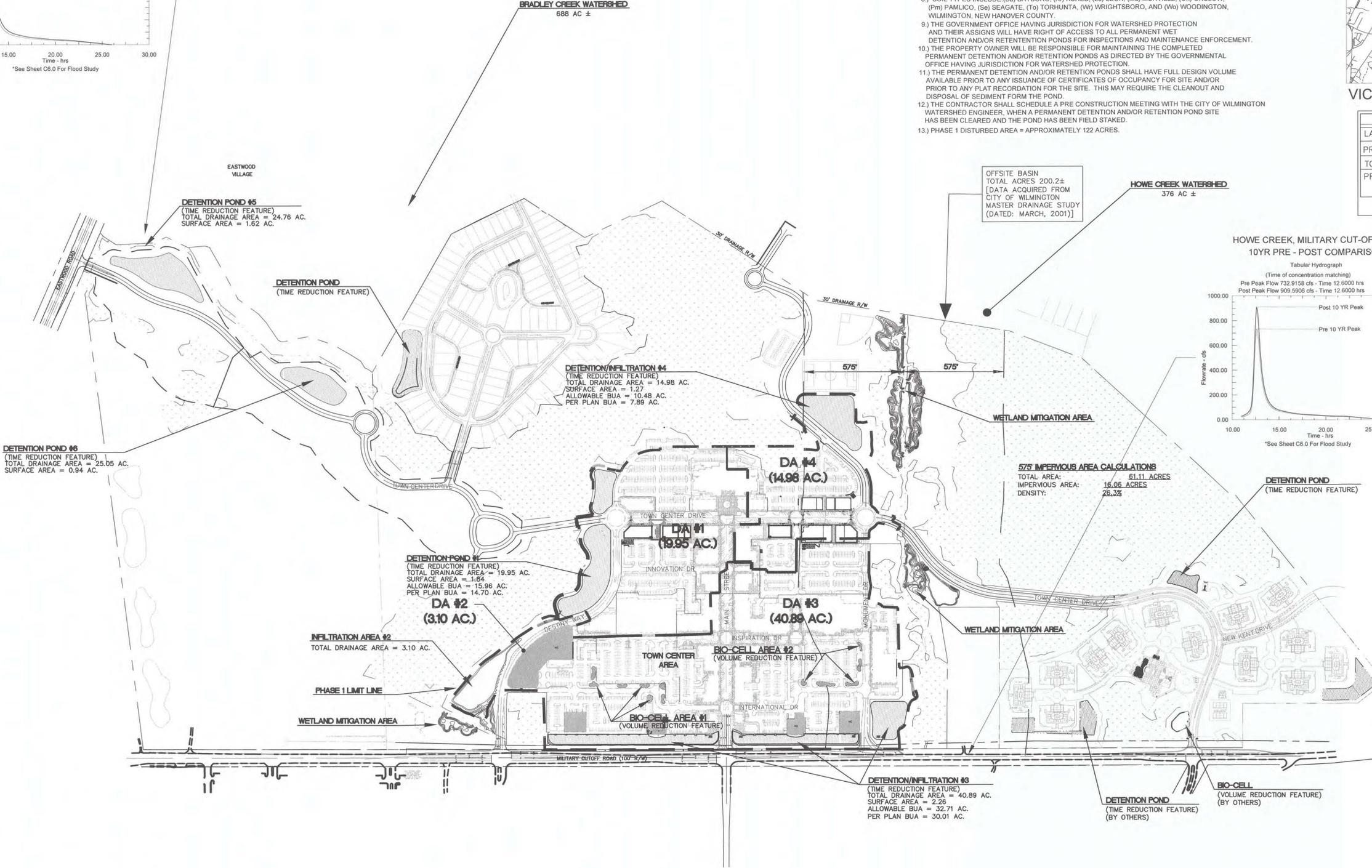
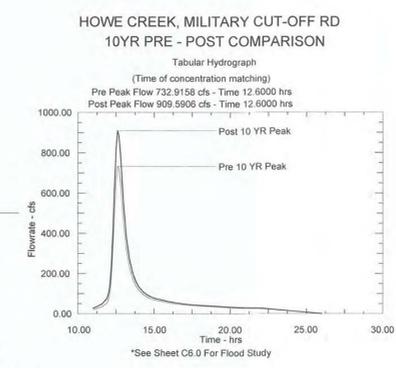


- GENERAL INFORMATION:
- 394.53 ACRES TOTAL PARCEL
 - DEVELOPER: CBL & ASSOCIATES PROPERTIES, INC.
2030 HAMILTON PLACE BLVD.
SUITE 500
CHATTANOOGA, TN 37421
 - SEWAGE DISPOSAL SHALL BE BY PUBLIC SEWER AND PRIVATE SANITARY SEWER.
 - TYPE OF ROADWAYS: CURB AND GUTTER
 - ROAD SLOPE @ 0.5% - 2.08%
 - A PORTION OF THIS WITHIN "FEMA" FLOOD LINE.
 - THIS MAP IS FOR MASTER PLAN WATERSHED USE ONLY.
 - ALL INDIVIDUAL SITE DEVELOPMENT SHALL SUBMIT PERMIT APPLICATIONS WITH DETAILED DESIGN OF EROSION CONTROL AND WATERSHED DEVICES IN ACCORDANCE WITH THIS PLAN.
 - SOIL TYPES INCLUDE: (Ba) BAYBORO, (K) KUREB, (Le) LEON, (Mu) MURVILLE, (On) ONSLOW, (Pm) PAMLICO, (Sb) SEAGATE, (T) TORHUNTA, (W) WRIGHTSBORO, AND (Wo) WOODINGTON, WILMINGTON, NEW HANOVER COUNTY.
 - THE GOVERNMENT OFFICE HAVING JURISDICTION FOR WATERSHED PROTECTION AND THEIR ASSIGNS WILL HAVE RIGHT OF ACCESS TO ALL PERMANENT WET DETENTION AND/OR RETENTION PONDS FOR INSPECTIONS AND MAINTENANCE ENFORCEMENT.
 - THE PROPERTY OWNER WILL BE RESPONSIBLE FOR MAINTAINING THE COMPLETED PERMANENT DETENTION AND/OR RETENTION PONDS AS DIRECTED BY THE GOVERNMENTAL OFFICE HAVING JURISDICTION FOR WATERSHED PROTECTION.
 - THE PERMANENT DETENTION AND/OR RETENTION PONDS SHALL HAVE FULL DESIGN VOLUME AVAILABLE PRIOR TO ANY ISSUANCE OF CERTIFICATES OF OCCUPANCY FOR SITE AND/OR PRIOR TO ANY PLAT RECORDATION FOR THE SITE. THIS MAY REQUIRE THE CLEANOUT AND DISPOSAL OF SEDIMENT FROM THE POND.
 - THE CONTRACTOR SHALL SCHEDULE A PRE CONSTRUCTION MEETING WITH THE CITY OF WILMINGTON WATERSHED ENGINEER, WHEN A PERMANENT DETENTION AND/OR RETENTION POND SITE HAS BEEN CLEARED AND THE POND HAS BEEN FIELD STAKED.
 - PHASE 1 DISTURBED AREA = APPROXIMATELY 122 ACRES.



WATERSHED LEGEND

| | |
|------------------------------|-----|
| LAND CLASSIFICATION BOUNDARY | --- |
| PROPERTY LINE | --- |
| TOWN CENTER BASIN LINE | --- |
| PROPOSED ON-SITE ROAD | --- |



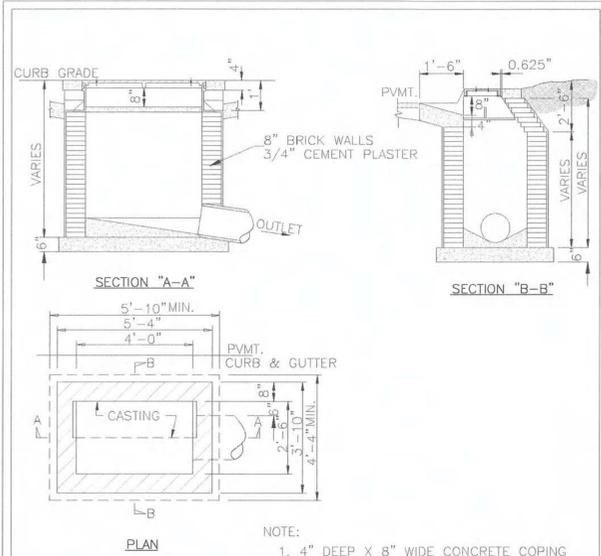
57' IMPERVIOUS AREA CALCULATIONS
TOTAL AREA: 61.11 ACRES
IMPERVIOUS AREA: 16.06 ACRES
DENSITY: 26.3%

PHASE III
TOWN CENTER WATERSHED CONTROL DATA (ONLY)

| DA | DRAINAGE AREA (AC) | % IMPERVIOUS EXISTING | % IMPERVIOUS PROPOSED | % IMPERVIOUS ALLOWABLE (BUA) | WATER QUALITY TREATMENT REQUIREMENTS | STREAM WATERSHED |
|----|--------------------|-----------------------|-----------------------|------------------------------|--------------------------------------|------------------|
| 1 | 19.95 | 14.70 AC (73%) | 15.39 AC (77%) | 15.96 AC (80%) | 1.0" | BRADLEY CREEK |
| 2 | 3.10 | 1.34 AC (43%) | N/A | 2.48 AC (80%) | 1.5" | HOWE CREEK |
| 3 | 40.89 | 30.01 AC (73) | 30.24 AC (74%) | 32.71 AC (80%) | 1.5" | HOWE CREEK |
| 4 | 14.98 | 7.89 AC (52%) | 9.50 AC (63%) | 10.48 AC (70%) | 1.5" | HOWE CREEK |

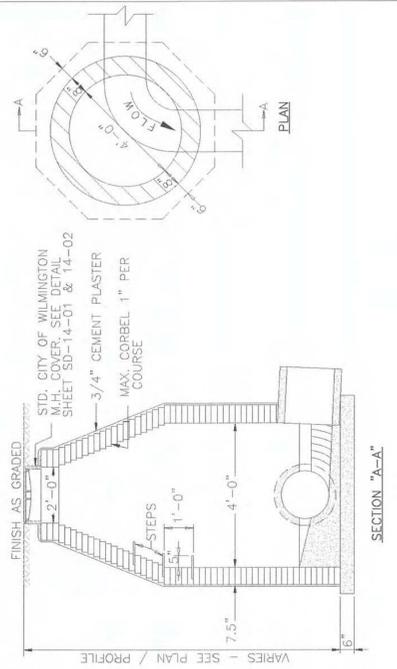
NOTE:
TOPOGRAPHY SHOWN IS FROM THE PHYSICAL SURVEY DONE FOR THE TOWN CENTER SITE.



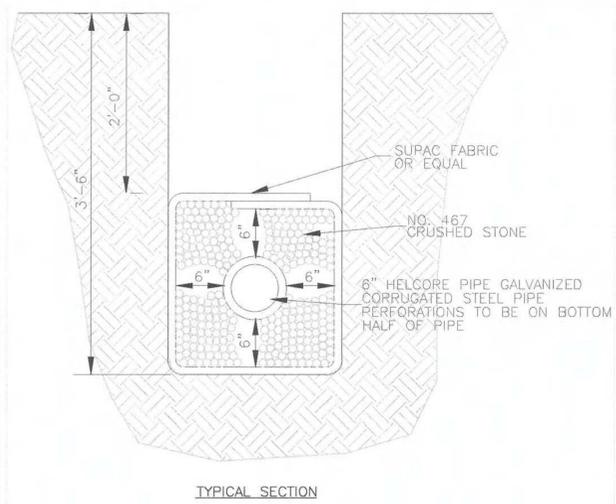


NOTE:
 1. 4" DEEP X 8" WIDE CONCRETE COPING
 ALL AROUND BASIN CASTING.
 2. ALL CONCRETE TO BE CLASS "A"
 3. FOR CASTING DETAIL SEE SD 2-16

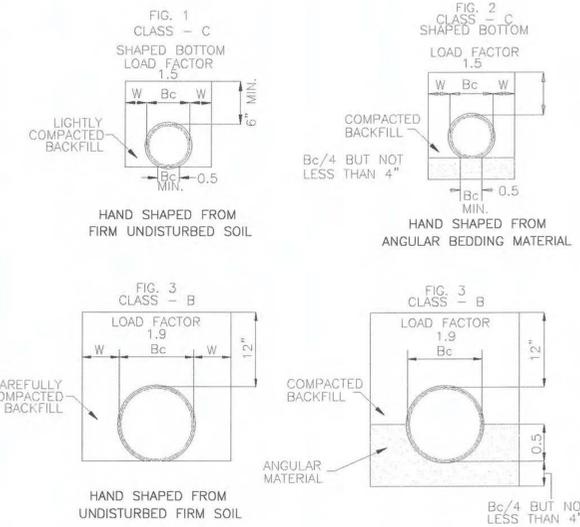
| | | | |
|-----------------------|-----------------|---|---------|
| DATE: 2006 | STANDARD DETAIL | CITY OF WILMINGTON ENGINEERING PO BOX 1810 WILMINGTON, NC 28402 (910) 341-7807 | SD 2-01 |
| DRAWN BY JSR/CMR | CATCH BASIN | | |
| CHECKED BY B.P., P.E. | | | |
| SCALE NOT TO SCALE | | | |
| | | | |



| | | | |
|-----------------------|------------------------------------|---|---------|
| DATE: 2001 | STANDARD DETAIL | CITY OF WILMINGTON ENGINEERING PO BOX 1810 WILMINGTON, NC 28402 (910) 341-7807 | SD 2-03 |
| DRAWN BY JSR/CMR | GUIDELINES FOR STORM DRAIN MANHOLE | | |
| CHECKED BY B.P., P.E. | | | |
| SCALE NOT TO SCALE | | | |
| | | | |

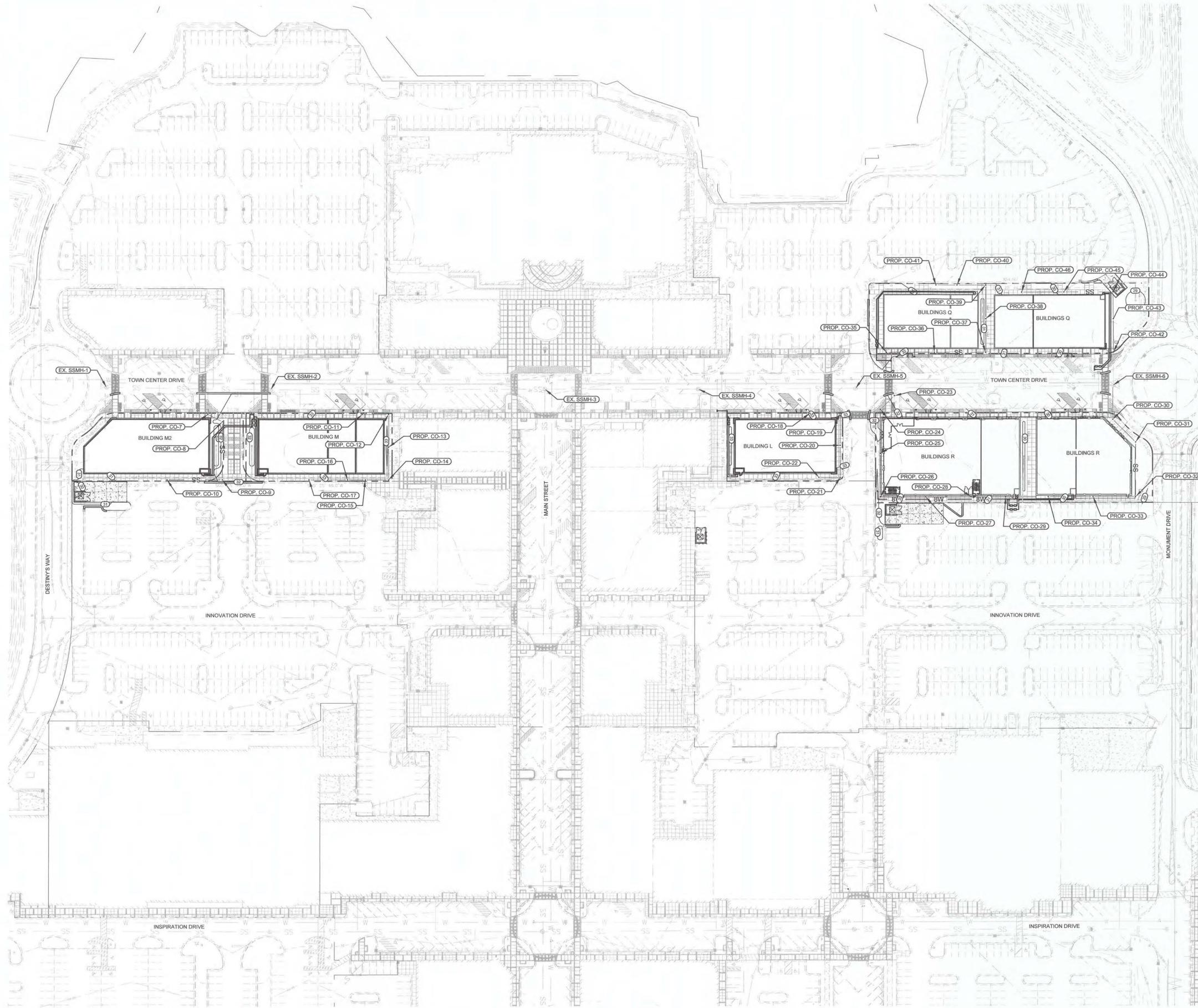


| | | | |
|-----------------------|-------------------------|---|---------|
| DATE: 2001 | STANDARD DETAIL | CITY OF WILMINGTON ENGINEERING PO BOX 1810 WILMINGTON, NC 28402 (910) 341-7807 | SD 2-04 |
| DRAWN BY JSR/CMR | GUIDELINES FOR SUBDRAIN | | |
| CHECKED BY B.P., P.E. | | | |
| SCALE NOT TO SCALE | | | |
| | | | |



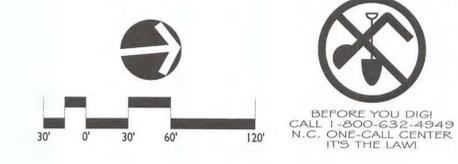
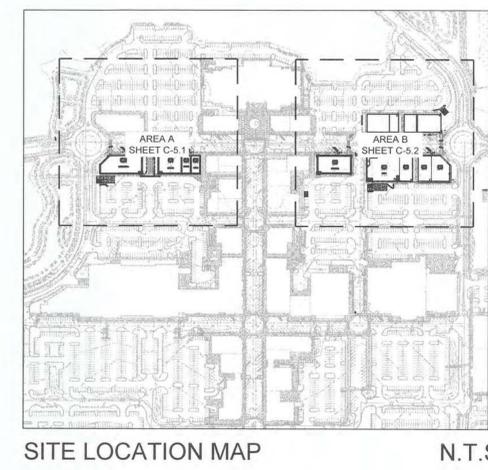
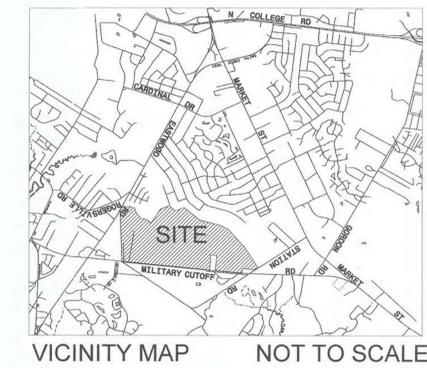
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|-----------------------|---|---|---------|
| DATE: 2001 | STANDARD DETAIL | CITY OF WILMINGTON ENGINEERING PO BOX 1810 WILMINGTON, NC 28402 (910) 341-7807 | SD 2-17 |
| DRAWN BY JSR/CMR | GUIDELINES FOR BEDDING DETAILS, STORM SEWER CLASSES (B & C) | | |
| CHECKED BY B.P., P.E. | | | |
| SCALE NOT TO SCALE | | | |
| | | | |





LEGEND:

| | |
|-----|--------------------------------|
| --- | EX. DRAINAGE EASEMENT |
| --- | EX. FENCE |
| --- | EX. STORM PIPE |
| --- | EX. OVERHEAD ELECTRIC |
| --- | EX. SANITARY SEWER |
| --- | EX. GAS LINE |
| --- | EX. FIBER OPTIC LINE |
| --- | EX. WATER LINE |
| --- | EX. GIS MINOR CONTOUR |
| --- | EX. GIS MAJOR CONTOUR |
| --- | EX. SURVEY MINOR CONTOUR |
| --- | EX. SURVEY MAJOR CONTOUR |
| --- | EX. LOT LINE |
| --- | PROP. GRADE MAJOR |
| --- | PROP. GRADE MINOR |
| 8W | PROP. 8" WATER MAIN |
| SS | PROP. SANITARY SEWER |
| --- | PROP. STORM DRAINAGE |
| --- | EX. SANITARY SEWER MANHOLE |
| --- | EX. UTILITY POLE |
| --- | EX. STORM BOX |
| --- | EX. STORM MANHOLE |
| --- | EX. FIRE HYDRANT |
| --- | EX. WATER MANHOLE |
| --- | EX. WATER VALVE |
| --- | EX. GAS VALVE |
| --- | PROP. WATER VALVE |
| --- | PROP. WATER TEE |
| --- | PROP. SANITARY SEWER CLEANOUTS |
| --- | PROP. STORMWATER CURB INLET |



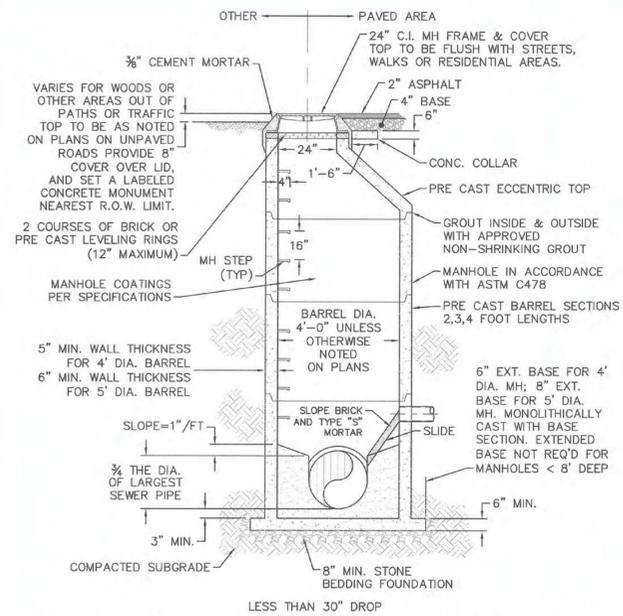
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**MAYFAIRE TOWN CENTER
 PHASE III
 WILMINGTON, NORTH CAROLINA
 OVERALL UTILITY PLAN**

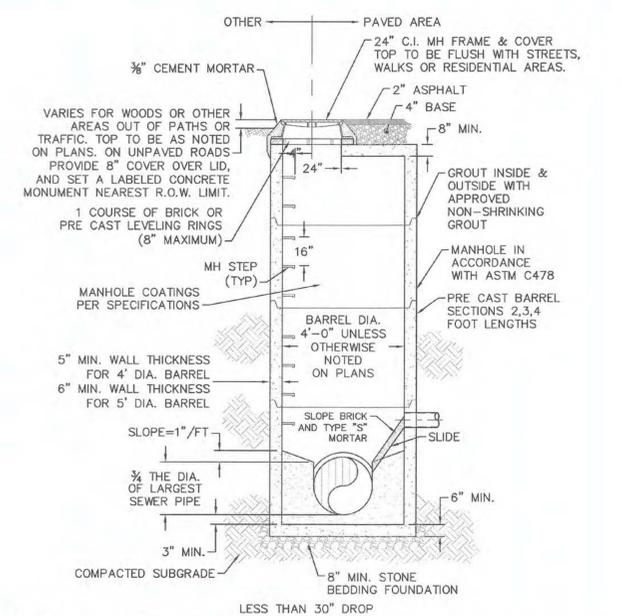
REVISIONS:

DATE: 12/02/2015
 DESIGNED BY: DMC
 CHECKED BY: DMC
 O.C. BY: DSG
 SCALE: 1"=80'
 PROJECT #: 1015249
 SHEET #: **C-5.0**

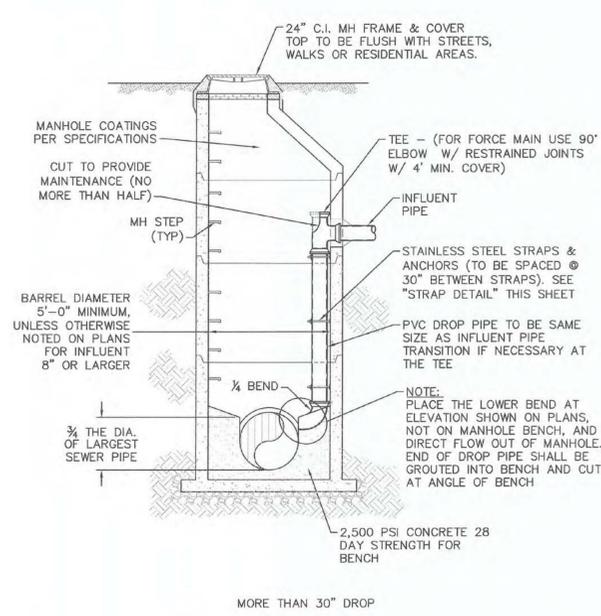
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 CALL 1-800-632-4343
 N.C. ONE-CALL CENTER
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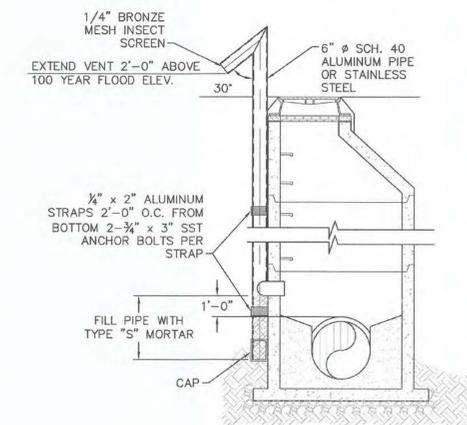
SD-1 PRECAST CONCRETE OFFSET MANHOLE TYPICAL
NOT TO SCALE



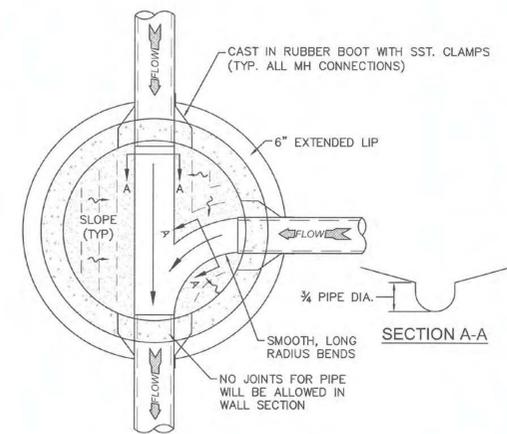
SD-2 PRECAST CONCRETE FLAT TOP MANHOLE TYPICAL
NOT TO SCALE



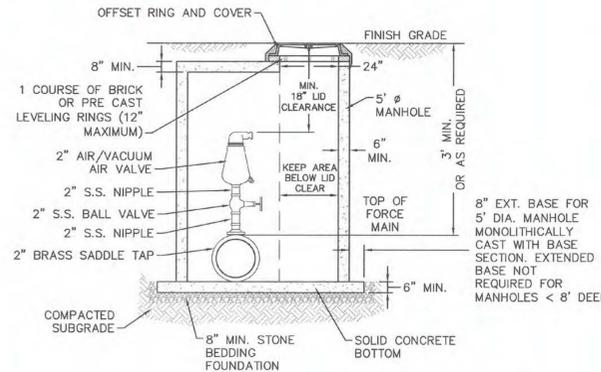
SD-3 DROP MANHOLE
NOT TO SCALE



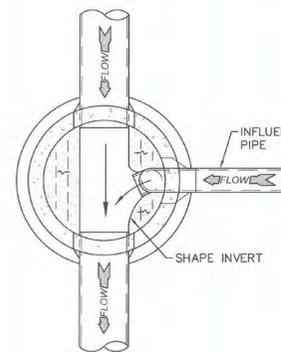
SD-4 STANDARD VENT MANHOLE
NOT TO SCALE



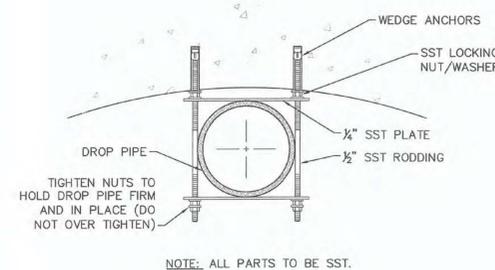
SD-5 MANHOLE FLOOR PLAN
NOT TO SCALE



SD-6 AIR/VACUUM AND AIR RELEASE COMBINATION VALVE
NOT TO SCALE



SD-7 DROP MANHOLE FLOOR PLAN
NOT TO SCALE



SD-8 STRAP DETAIL
NOT TO SCALE

- CAPE FEAR PUBLIC UTILITY AUTHORITY STANDARD SEWER NOTES:**
- SEWER GUARDS REQUIRED AT ALL MANHOLES. STAINLESS STEEL SEWER GUARDS REQUIRED AT MANHOLES LOCATED IN TRAFFIC AREAS.
 - SERVICES SHALL BE PERPENDICULAR TO MAIN AND TERMINATE AT RIGHT-OF-WAY LINE. SERVICES IN CUL-DE-SACS ARE REQUIRED TO BE PERPENDICULAR, OR MUST ORIGINATE IN MANHOLE AND TERMINATE AT RIGHT-OF-WAY LINE.
 - ALL SERVICES TYING INTO DUCTILE IRON MAINS SHALL BE CONSTRUCTED OF GLASS 50, DIP, WITH PROTECTO 401 CERAMIC EPOXY LINING.
 - 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.

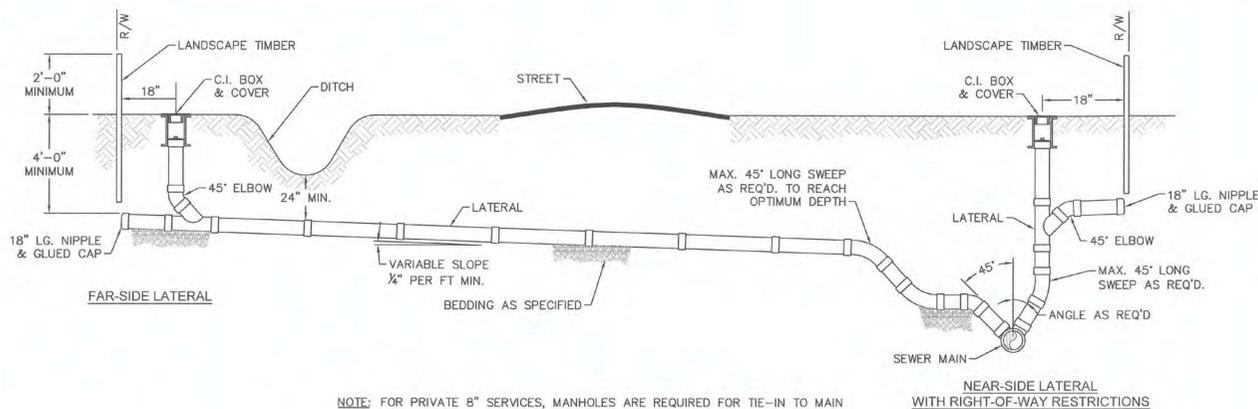
SD-9 STANDARD SEWER NOTES
(REQUIRED ON ALL SEWER PLAN AND PROFILE SHEETS)

- GENERAL NOTES:**
- NO EXCAVATED MATERIAL SHALL BE PLACED IN ANY STREAM, DITCH OR DRAINAGE-WAY.
 - THE CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES BEFORE ANY CONSTRUCTION BEGINS.
 - THE CONTRACTOR IS RESPONSIBLE FOR TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES WHILE CONSTRUCTION IS IN PROGRESS.
 - THE CONTRACTOR IS RESPONSIBLE FOR STABILIZATION OF ALL DISTURBED AREAS.
 - THE CONTRACTOR IS RESPONSIBLE FOR LAY DOWN AND STOCKPILE AREAS (TO ARRANGE AND ENSURE COMPLIANCE WITH ALL LOCAL AND STATE REGULATIONS).
- THE DETAILS SHOWN HEREON SUPERCEDE CFPUA WRITTEN TECHNICAL SPECIFICATIONS VERSIONS 1.00 - 1.04**

| REV: | DESCRIPTION: | DATE: |
|------|---|----------|
| 1 | AIR / VACUUM AND AIR RELEASE COMBINATION VALVE REVISED | 10/26/12 |
| 2 | STANDARD SEWER NOTE #6 REVISED | 12/10/12 |
| 3 | REVISED STANDARD VENT MANHOLE TO EXTEND VENT 2'-0" ABOVE 100 YR FLOOD | 11/20/14 |
| | | |
| | | |
| | | |
| | | |

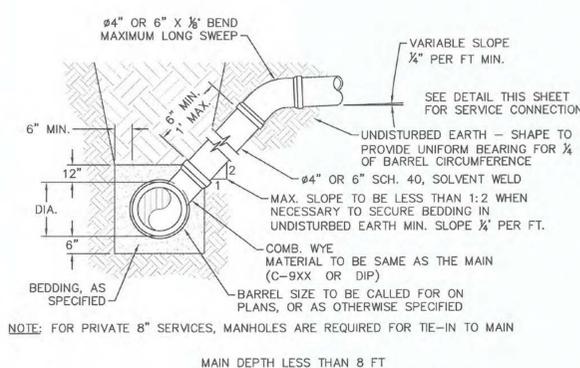
| | | |
|---|--|----------------------|
| CFPUA SANITARY SEWER | | DATE: 1/9/12 |
| STANDARD DETAILS | | SCALE: N/A |
|  CAPE FEAR PUBLIC UTILITY AUTHORITY 235 GOVERNMENT CENTER DRIVE WILMINGTON, NC 28403 OFFICE: (910)332-6560 | | DRAWN BY: CFPUA |
|  | | CHECKED BY: CFPUA |
| SSD-1 | | PROJECT NO: |





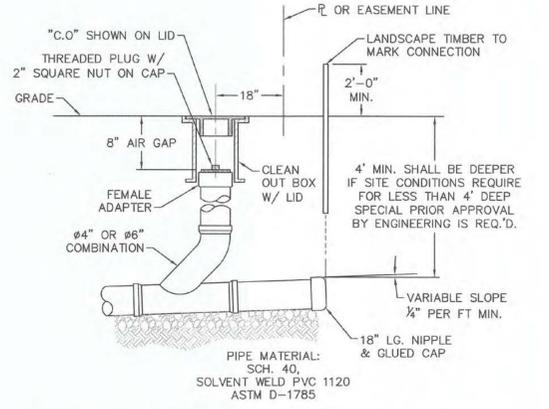
NOTE: FOR PRIVATE 8" SERVICES, MANHOLES ARE REQUIRED FOR TIE-IN TO MAIN

SD-19 STANDARD SERVICE CONNECTION TO SANITARY SEWER
NOT TO SCALE



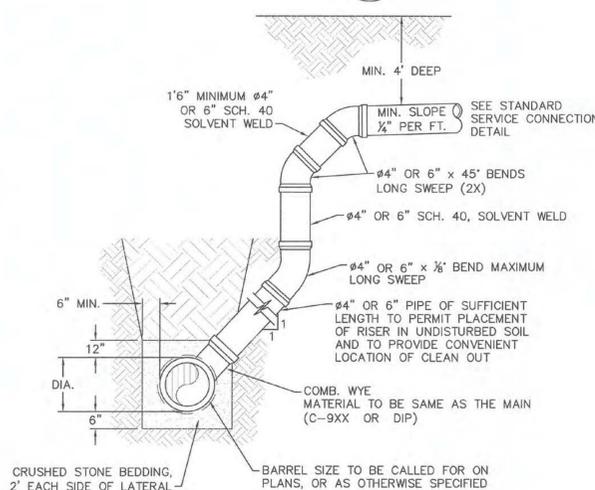
NOTE: FOR PRIVATE 8" SERVICES, MANHOLES ARE REQUIRED FOR TIE-IN TO MAIN

SD-10 STANDARD SERVICE LATERAL
NOT TO SCALE



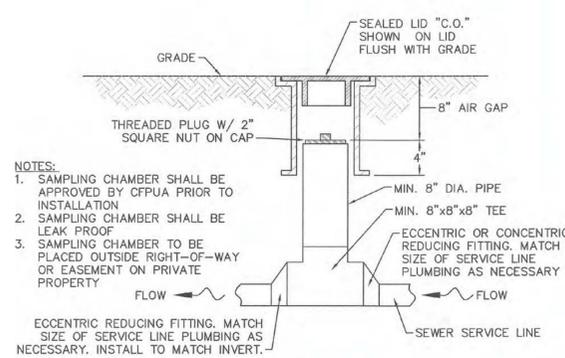
NOTE: FOR PRIVATE 8" SERVICES, MANHOLES ARE REQUIRED FOR TIE-IN TO MAIN

SD-11 SERVICE CONNECTION AND CLEAN-OUT
NOT TO SCALE



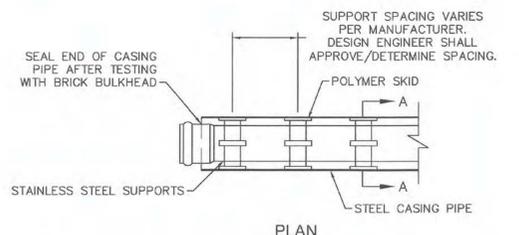
NOTES:
1. SPECIAL CARE SHALL BE TAKEN DURING BACKFILL OPERATIONS. THE RISER SHALL BE PLUMB AND TRUE AT ALL TIMES, AND REST ON FIRM, STABLE FOUNDATION.
2. FOR PRIVATE 8" SERVICES, MANHOLES ARE REQUIRED FOR TIE-IN TO MAIN.

SD-12 DEEP SERVICE LATERAL
NOT TO SCALE



NOTES:
1. SAMPLING CHAMBER SHALL BE APPROVED BY CFPUA PRIOR TO INSTALLATION.
2. SAMPLING CHAMBER SHALL BE LEAK PROOF.
3. SAMPLING CHAMBER TO BE PLACED OUTSIDE RIGHT-OF-WAY OR EASEMENT ON PRIVATE PROPERTY.
ECCENTRIC REDUCING FITTING. MATCH SIZE OF SERVICE LINE PLUMBING AS NECESSARY. INSTALL TO MATCH INVERT.

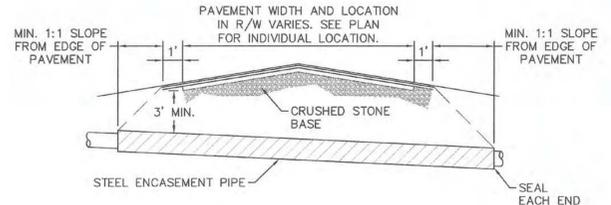
SD-13 SAMPLING CHAMBER
NOT TO SCALE



NOTES:
1. BACKFILL SHALL BE SUITABLE MATERIAL THAT IS FREE FROM HEAVY CLAY, GUMBOS, DEBRIS, ORGANICS AND LITTLE TO NO EXCESSIVE MOISTURE.
2. SELECT BACKFILL MAY BE SUBSTITUTED OR REQUIRED BY CITY TO ACHIEVE COMPACTION, (I.E. #57, ABC, CRUSHED LIMESTONE, CLEAN SAND, FLOWABLE FILL, ETC).
3. 8-INCH OF ABC BASE MATERIAL SHALL BE USED ON CITY STREETS.
4. BACKFILL AND BASE MATERIALS SHALL BE COMPACTED 12" MINIMUM LIFTS.
5. SOIL SHALL BE COMPACTED BY A MECHANIZED TAMPER (I.E. JUMPING JACK), HOWEVER, VIBRATORY ROLLERS > 18" WIDTH MAY BE USED FOR LARGER EXCAVATIONS. THE PLATE TAMP METHOD SHALL NOT BE USED.
6. ALL APPROVED CASTINGS SHALL BE SET FLUSH TO GRADE AND SUPPORTED IF APPLICABLE.
7. ABC BASE AND SUBBASE COMPACTED TO 98% AND BACKFILL AND EMBEDMENT COMPACTED TO 90% AS DETERMINED BY THE MODIFIED PROCTOR AASHTO METHOD T-99.
8. 1-FOOT CUTBACKS OF ASPHALT SHALL BE PREPARED ON UNDISTURBED SOIL. MINIMUM ASPHALT DENSITY IS 90%.

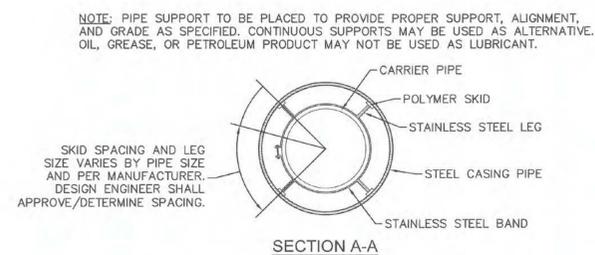
(FOR PRIVATE ROADS AND PAVED AREAS; CONTRACTOR TO MEET MIN REQUIREMENTS AS DEFINED BY RIGHT-OF-WAY OWNER FOR PUBLIC ROAD REPAIRS)

SD-14 PAVEMENT REPAIR WHERE PIPE INSTALLED
NOT TO SCALE



NOTES:
1. CASING WILL BE INSTALLED AT LINE AND GRADE SHOWN ON INDIVIDUAL PROFILE FOR EACH CROSSING. BORING/JACKING TO LINE AND GRADE IS REQUIRED.
2. TRACER WIRE SHALL BE CONTINUED THROUGH CASING.

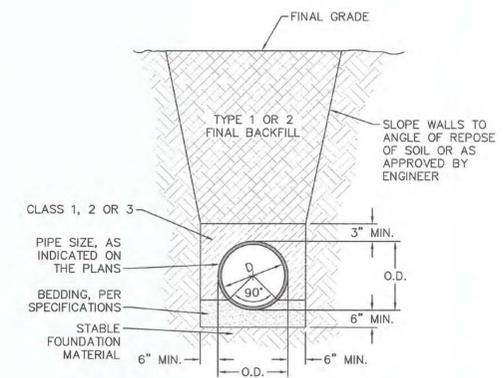
SD-16 TYPICAL BORING/JACKING DETAIL
NOT TO SCALE



NOTE: PIPE SUPPORT TO BE PLACED TO PROVIDE PROPER SUPPORT, ALIGNMENT, AND GRADE AS SPECIFIED. CONTINUOUS SUPPORTS MAY BE USED AS ALTERNATIVE. OIL, GREASE, OR PETROLEUM PRODUCT MAY NOT BE USED AS LUBRICANT.

SKID SPACING AND LEG SIZE VARIES BY PIPE SIZE AND PER MANUFACTURER. DESIGN ENGINEER SHALL APPROVE/DETERMINE SPACING.

SD-17 PIPE CASING SUPPORT DETAIL
NOT TO SCALE



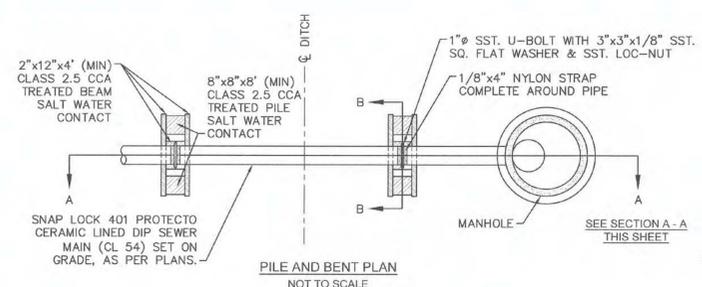
SD-15 TYPICAL TRENCH DETAIL
NOT TO SCALE

GENERAL NOTES:
1. NO EXCAVATED MATERIAL SHALL BE PLACED IN ANY STREAM, DITCH OR DRAINAGE-WAY.
2. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES BEFORE ANY CONSTRUCTION BEGINS.
3. THE CONTRACTOR IS RESPONSIBLE FOR TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES WHILE CONSTRUCTION IS IN PROGRESS.
4. THE CONTRACTOR IS RESPONSIBLE FOR STABILIZATION OF ALL DISTURBED AREAS.
5. THE CONTRACTOR IS RESPONSIBLE FOR LAY DOWN AND STOCKPILE AREAS (TO ARRANGE AND ENSURE COMPLIANCE WITH ALL LOCAL AND STATE REGULATIONS).

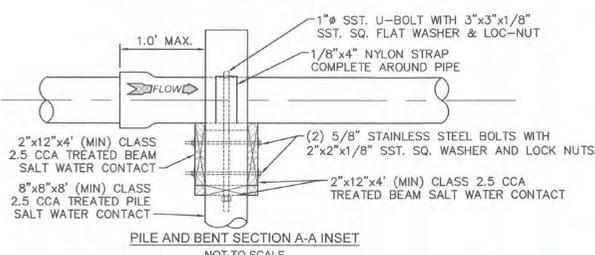
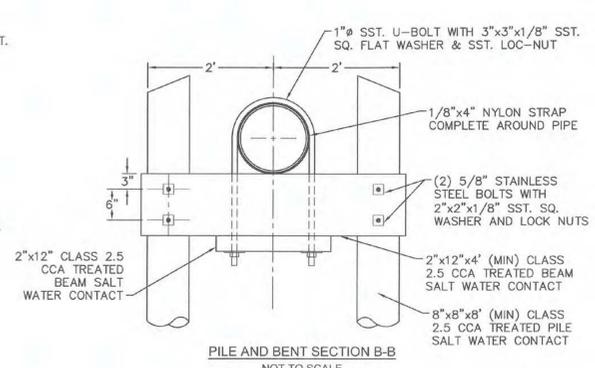
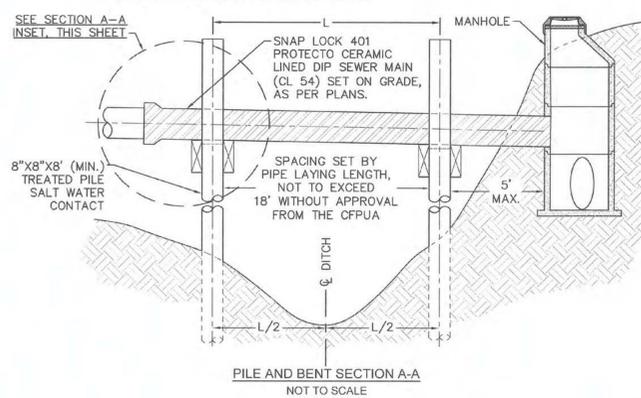
THE DETAILS SHOWN HEREON SUPERCEDE CFPUA WRITTEN TECHNICAL SPECIFICATIONS VERSIONS 1.00 - 1.04

| REV. | DESCRIPTION: | DATE: |
|------|--------------------------|----------|
| 1 | SAMPLING CHAMBER REVISED | 10/26/12 |
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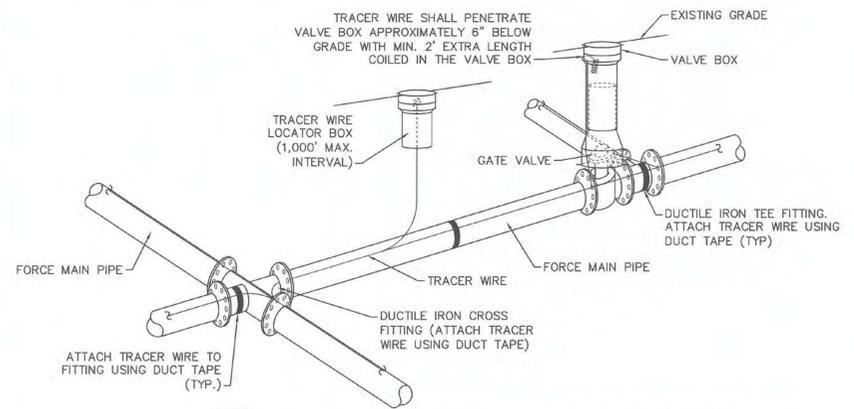
| | | |
|--|--|---------------------------|
| CFPUA SANITARY SEWER | | DATE: 1/9/12 |
| STANDARD DETAILS | | SCALE: N/A |
| CAPE FEAR PUBLIC UTILITY AUTHORITY 235 GOVERNMENT CENTER DRIVE WILMINGTON, NC 28403 OFFICE: (910)332-6560 | | DRAWN BY: CFPUA |
| | | CHECKED BY: CFPUA |
| Stewardship Sustainability Service | | PROJECT NO: |
| SSD-2 | | SHEET NO: SSD-2 |



- NOTES:
1. PILES AND PILE DRIVING SHALL CONFORM TO NCDOT STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES, JANUARY 2002, SECTIONS 445, 450, 1082-2 & 1084-2.
 2. CENTERLINE OF BOLTS TO BE A MINIMUM OF 3" FROM OUTSIDE EDGE OF TIMBER. BOLTS TO BE A MINIMUM OF 3" CENTERLINE TO CENTERLINE.
 3. ALL STAINLESS STEEL SHALL BE 316. STAINLESS STRAP TO BE COLD FORMED.
 4. PILE SHALL NOT OBSTRUCT FLOW OR CAUSE EROSION OF DITCH/STREAM BANK.
 5. MIN. CLASS 54 DIP-ENGINEER MUST DESIGN LOADING.
 6. DESIGN SHALL BE APPROVED BY CFPUA.

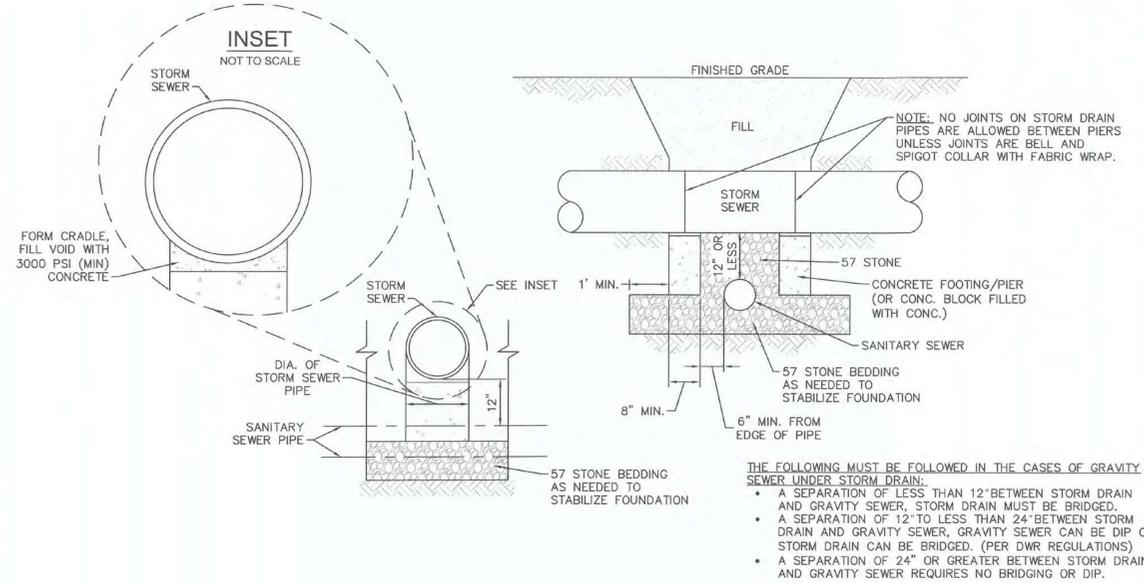


SD-20 PILE AND BENT DETAIL NOT TO SCALE



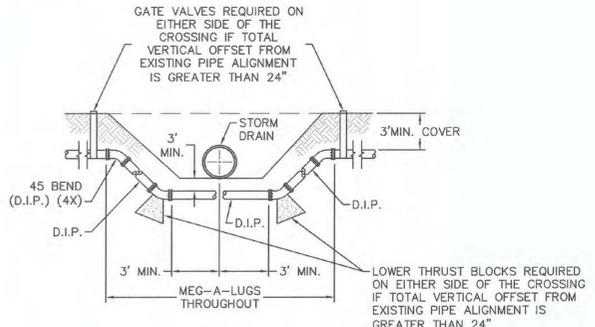
- NOTES:
1. TRACER WIRE SHALL BE #10 COPPER SOLID CORE COPPER WIRE WITH GAS AND OIL RESISTANT INSULATION.
 2. WIRE SHALL BE STRAPPED TO ALL PVC FORCE MAIN PIPING WITH DUCT TAPE AT 12 FOOT INTERVALS ALONG THE PIPE.
 3. SECURE WIRE TO ALL TEE AND CROSS FITTINGS WITH DUCT TAPE.
 4. ALL SPLICES IN THE WIRE SHALL BE MADE WITH 3M DBR DIRECT BURY SPLICE KIT AN UNDERGROUND RATED, WATERTIGHT, AND APPROVED SPLICE CONNECTOR OR APPROVED EQUAL.

SD-21 TRACER WIRE DETAIL NOT TO SCALE



- THE FOLLOWING MUST BE FOLLOWED IN THE CASES OF GRAVITY SEWER UNDER STORM DRAIN:
- A SEPARATION OF LESS THAN 12" BETWEEN STORM DRAIN AND GRAVITY SEWER, STORM DRAIN MUST BE BRIDGED.
 - A SEPARATION OF 12" TO LESS THAN 24" BETWEEN STORM DRAIN AND GRAVITY SEWER, GRAVITY SEWER CAN BE DIP OR STORM DRAIN CAN BE BRIDGED. (PER DWR REGULATIONS)
 - A SEPARATION OF 24" OR GREATER BETWEEN STORM DRAIN AND GRAVITY SEWER REQUIRES NO BRIDGING OR DIP.

SD-24 STRUCTURAL BRIDGING DETAIL FOR STORMWATER OVER GRAVITY SEWER INSTALLATIONS WITH LESS THAN 12" SEPARATION NOT TO SCALE



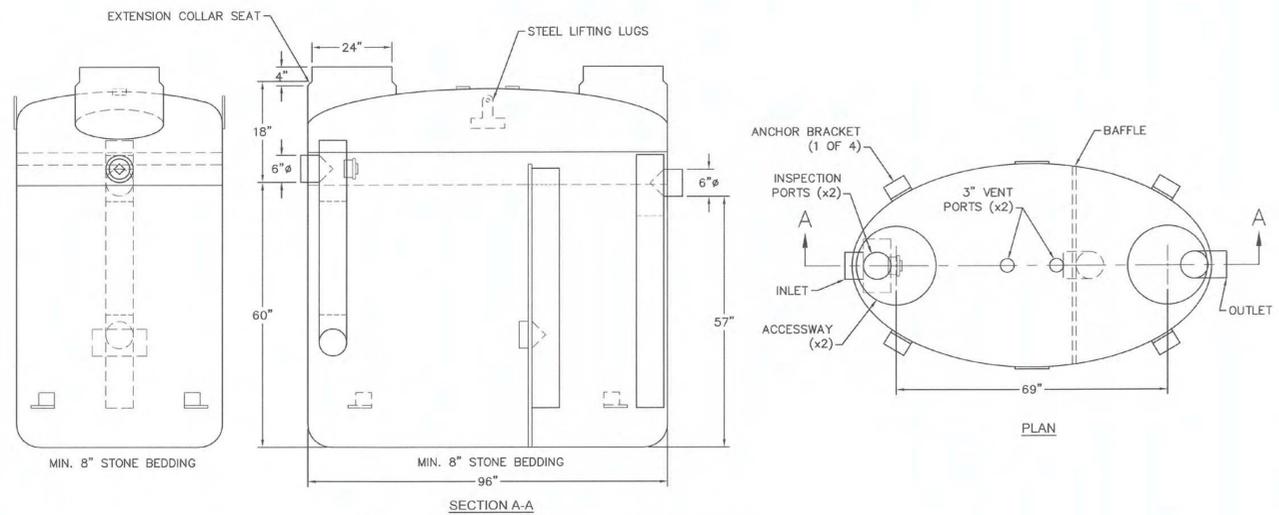
SD-18 FORCE MAIN DITCH AND STORM DRAIN CROSSING NOT TO SCALE

- GENERAL NOTES:
1. NO EXCAVATED MATERIAL SHALL BE PLACED IN ANY STREAM, DITCH OR DRAINAGE-WAY.
 2. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES BEFORE ANY CONSTRUCTION BEGINS.
 3. THE CONTRACTOR IS RESPONSIBLE FOR TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES WHILE CONSTRUCTION IS IN PROGRESS.
 4. THE CONTRACTOR IS RESPONSIBLE FOR STABILIZATION OF ALL DISTURBED AREAS.
 5. THE CONTRACTOR IS RESPONSIBLE FOR LAY DOWN AND STOCKPILE AREAS (TO ARRANGE AND ENSURE COMPLIANCE WITH ALL LOCAL AND STATE REGULATIONS).

THE DETAILS SHOWN HEREON SUPERCEDE CFPUA WRITTEN TECHNICAL SPECIFICATIONS VERSIONS 1.00 - 1.04

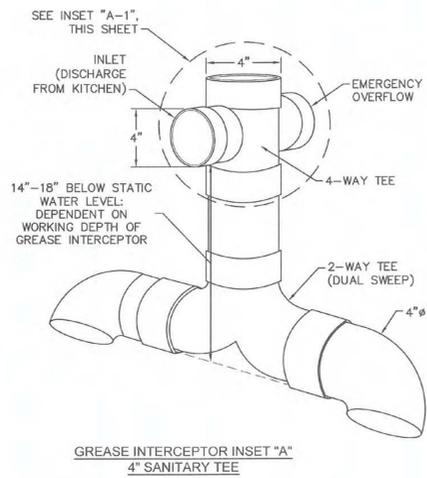
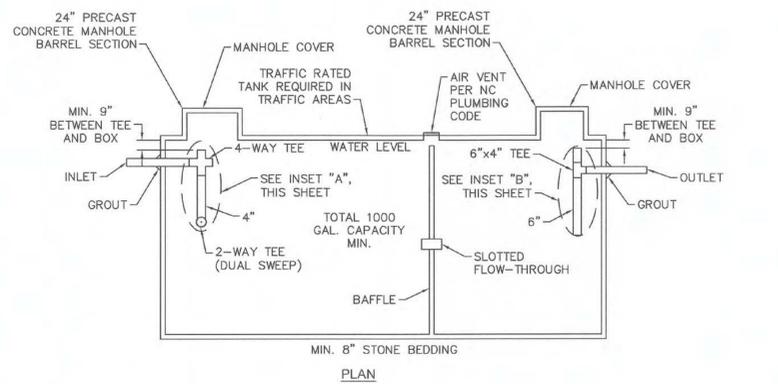
| REV. | DESCRIPTION: | DATE: |
|------|---|----------|
| 1 | ADDED NOTES TO THE STRUCTURAL BRIDGING DETAIL | 03/11/15 |
| 2 | Revised Tracer Wire Detail | 10/20/15 |
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| CFPUA SANITARY SEWER | | DATE: 1/9/12 |
| STANDARD DETAILS | | SCALE: N/A |
|  CAPE FEAR PUBLIC UTILITY AUTHORITY 235 GOVERNMENT CENTER DRIVE WILMINGTON, NC 28403 OFFICE: (910)332-6560 <small>Stewardship. Sustainability. Service.</small> | | DRAWN BY: CFPUA |
| | | CHECKED BY: CFPUA |
| SHEET NO: SSD-3 | | PROJECT NO: |
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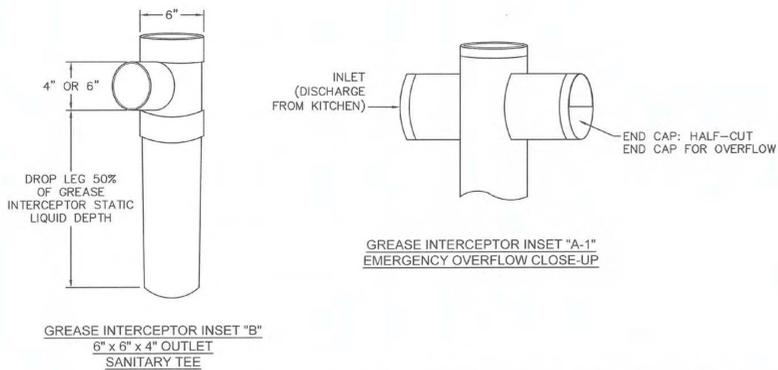
- NOTES:**
1. FOR GRAVITY APPLICATIONS ONLY.
 2. MIN. THICKNESS: 1/4" WALL AND 3/8" TOP AND BOTTOM BOWLS.
 3. STANDARD PIPE STUBS ARE SOCKET SDR 35 PVC.
 4. EXTENSION COLLARS SHALL BE CAULKED WITH SIKAFLEX OR EQUIVALENT FOR WATERTIGHT SEAL.
 5. FOLLOW MANUFACTURE'S SPECS FOR TRAFFIC OR PEDESTRIAN LOADING.

SD-22 FIBERGLASS GREASE INTERCEPTOR
NOT TO SCALE



- GENERAL NOTES:**
1. NO EXCAVATED MATERIAL SHALL BE PLACED IN ANY STREAM, DITCH OR DRAINAGE-WAY.
 2. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES BEFORE ANY CONSTRUCTION BEGINS.
 3. THE CONTRACTOR IS RESPONSIBLE FOR TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES WHILE CONSTRUCTION IS IN PROGRESS.
 4. THE CONTRACTOR IS RESPONSIBLE FOR STABILIZATION OF ALL DISTURBED AREAS.
 5. THE CONTRACTOR IS RESPONSIBLE FOR LAY DOWN AND STOCKPILE AREAS (TO ARRANGE AND ENSURE COMPLIANCE WITH ALL LOCAL AND STATE REGULATIONS).

THE DETAILS SHOWN HEREON SUPERCEDE CFPUA WRITTEN TECHNICAL SPECIFICATIONS VERSIONS 1.00 - 1.04



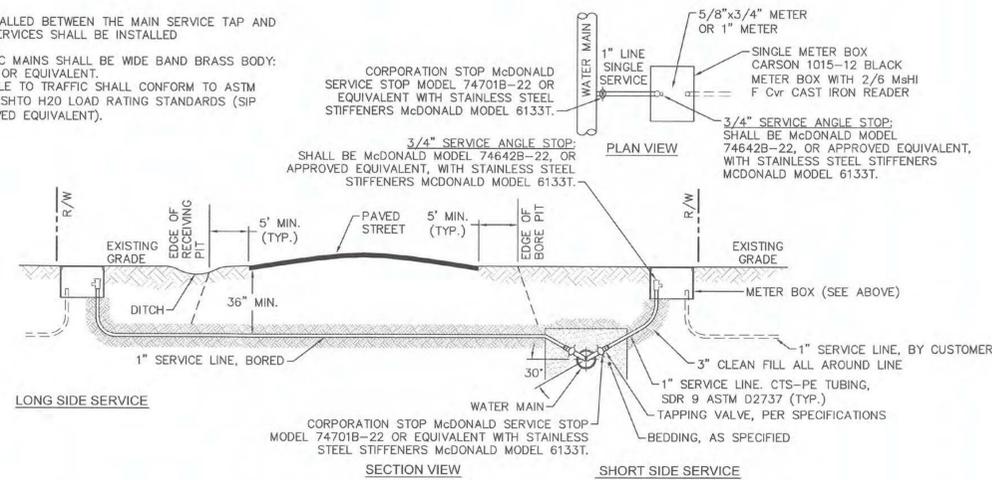
SD-23 CONCRETE GREASE INTERCEPTOR
NOT TO SCALE

| REV: | DESCRIPTION: | DATE: |
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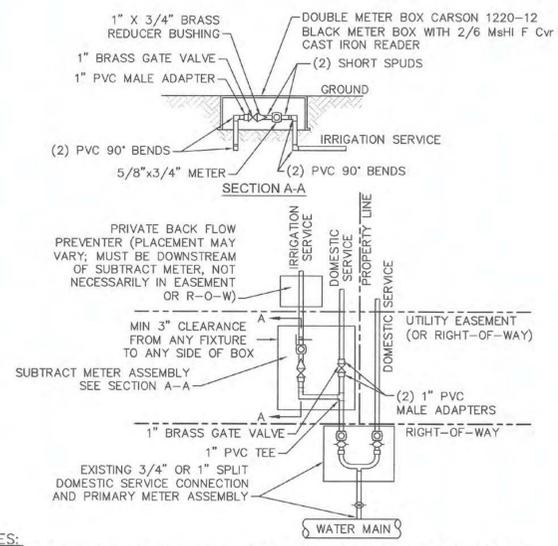
| | | |
|---|--|--|
| CFPUA SANITARY SEWER | | DATE: 1/9/12 |
| STANDARD DETAILS | | SCALE: N/A |
|  CAPE FEAR PUBLIC UTILITY AUTHORITY 235 GOVERNMENT CENTER DRIVE WILMINGTON, NC 28403 OFFICE: (910)332-6560 | | DRAWN BY: CFPUA CHECKED BY: CFPUA PROJECT NO.: |
| Stewardship. Sustainability. Service. | | SHEET NO.: SSD-4 |



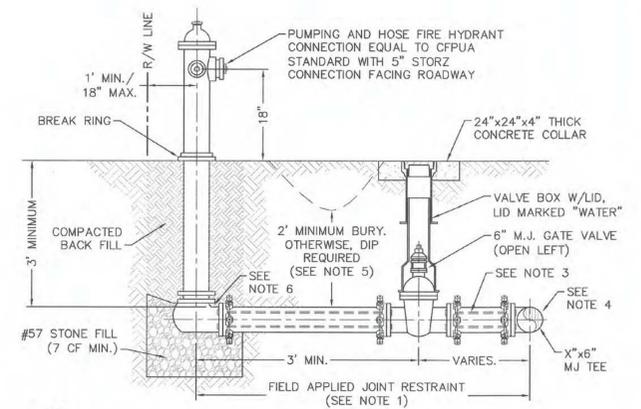
- NOTES:**
- NO JOINT SHALL BE INSTALLED BETWEEN THE MAIN SERVICE TAP AND THE METER STOP. ALL SERVICES SHALL BE INSTALLED PERPENDICULAR TO MAIN.
 - SERVICE SADDLES ON PVC MAINS SHALL BE WIDE BAND BRASS BODY: SADDLE McDONALD 3801 OR EQUIVALENT.
 - METER BOXES SUSCEPTIBLE TO TRAFFIC SHALL CONFORM TO ASTM A48, CLASS 30B AND AASHTO H20 LOAD RATING STANDARDS (SIP MODEL 4242, OR APPROVED EQUIVALENT).



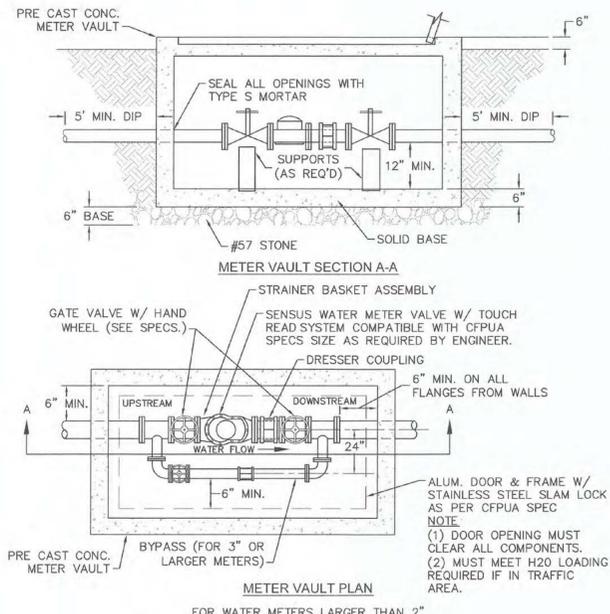
WD-18 SINGLE SERVICE CONNECTION
NOT TO SCALE



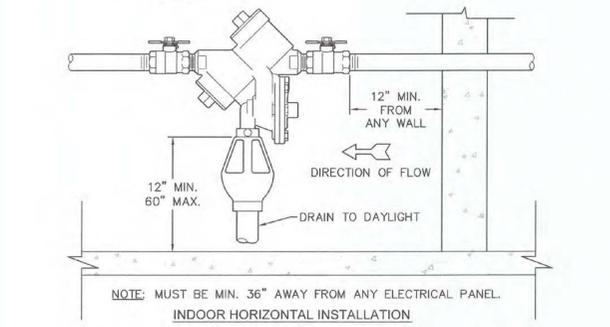
WD-8 DOUBLE SERVICE CONNECTION USING SUBTRACT METER
NOT TO SCALE



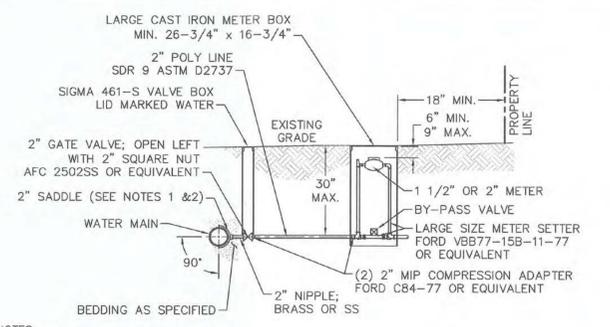
WD-10 FIRE HYDRANT ASSEMBLY
NOT TO SCALE



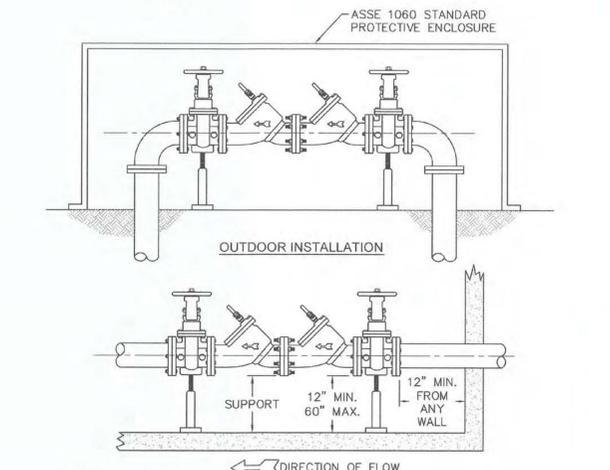
WD-1 WATER METER VAULT
NOT TO SCALE



WD-12 REDUCED PRESSURE PRINCIPLE ASSEMBLY
NOT TO SCALE



WD-11 LARGE METER
NOT TO SCALE



WD-7 DOUBLE CHECK VALVE ASSEMBLY
NOT TO SCALE

GENERAL NOTES:

- NO EXCAVATED MATERIAL SHALL BE PLACED IN ANY STREAM, DITCH OR DRAINAGE-WAY.
- THE CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES BEFORE ANY CONSTRUCTION BEGINS.
- THE CONTRACTOR IS RESPONSIBLE FOR TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES WHILE CONSTRUCTION IS IN PROGRESS.
- THE CONTRACTOR IS RESPONSIBLE FOR STABILIZATION OF ALL DISTURBED AREAS.
- THE CONTRACTOR IS RESPONSIBLE FOR LAY DOWN AND STOCKPILE AREAS (TO ARRANGE AND ENSURE COMPLIANCE WITH ALL LOCAL AND STATE REGULATIONS).

THE DETAILS SHOWN HEREON SUPERCEDE CFPUA WRITTEN TECHNICAL SPECIFICATIONS VERSIONS 1.00 - 1.04

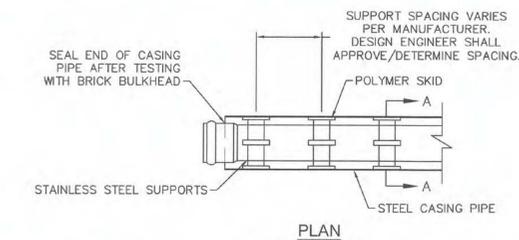
CFPUA WATER DISTRIBUTION SYSTEM

| REV. | DESCRIPTION: | DATE: |
|------|---|----------|
| 1 | Single Service Connection, Double Service Connection, and Large Meter Revised | 10/28/12 |
| 2 | Single Service Connection and Fire Hydrant Details Revised | 7/23/13 |
| 3 | Fire Hydrant Detail Revised | 01/03/14 |
| 4 | Revised Fire Hydrant Assembly To Show 5" STORZ Connection | 04/10/15 |

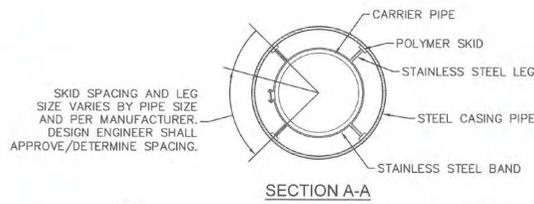
STANDARD DETAILS

CAPE FEAR PUBLIC UTILITY AUTHORITY
235 GOVERNMENT CENTER DRIVE
WILMINGTON, NC 28403
OFFICE: (910)332-6560

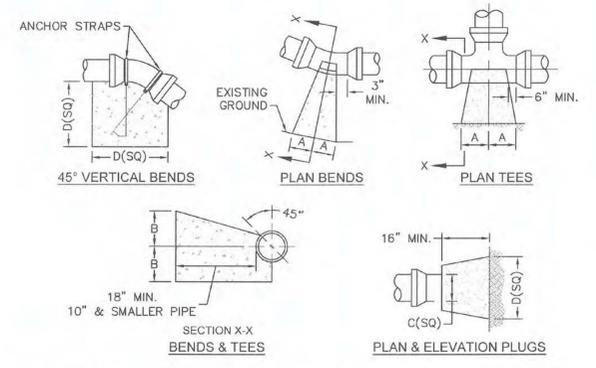
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| DATE: | 1/9/12 |
| SCALE: | N/A |
| DRAWN BY: | CFPUA |
| CHECKED BY: | CFPUA |
| PROJECT NO.: | |
| SHEET NO.: | WSD-1 |



NOTE: PIPE SUPPORT TO BE PLACED TO PROVIDE PROPER SUPPORT, ALIGNMENT, AND GRADE AS SPECIFIED. CONTINUOUS SUPPORTS MAY BE USED AS ALTERNATIVE. OIL, GREASE, OR PETROLEUM PRODUCT MAY NOT BE USED AS LUBRICANT.

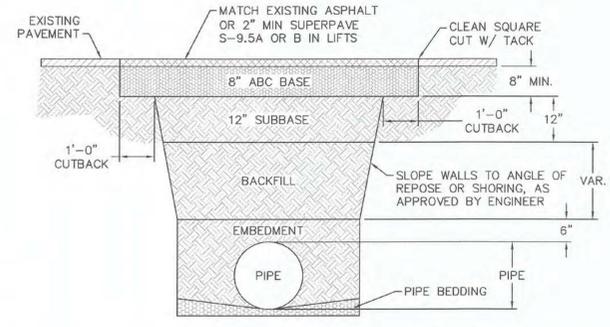


WD-15 PIPE CASING SUPPORT DETAIL
NOT TO SCALE



| SIZE | 90° BENDS | | 45° BENDS | | 22-1/2° BENDS | | TEES/PLUGS | | 45° VERT. BENDS |
|------|-----------|-----|-----------|-----|---------------|-----|------------|-----|-----------------|
| | A | B | A | B | A | B | A | B | |
| 3" | 8" | 6" | 5" | 6" | 3" | 7" | 6" | 8" | 27" |
| 4" | 8" | 9" | 5" | 8" | 3" | 11" | 6" | 9" | 28" |
| 6" | 14" | 11" | 9" | 9" | 8" | 8" | 12" | 9" | 36" |
| 8" | 16" | 16" | 12" | 12" | 10" | 13" | 14" | 13" | 42" |
| 10" | 18" | 22" | 15" | 14" | 14" | 16" | 18" | 15" | 50" |
| 12" | 20" | 28" | 18" | 17" | 16" | 16" | 22" | 18" | 62" |
| 14" | 26" | 29" | 21" | 19" | 18" | 18" | 26" | 20" | 72" |
| 16" | 33" | 29" | 25" | 21" | 20" | 21" | 32" | 21" | 83" |
| 18" | 40" | 30" | 28" | 24" | 22" | 23" | 36" | 24" | 88" |

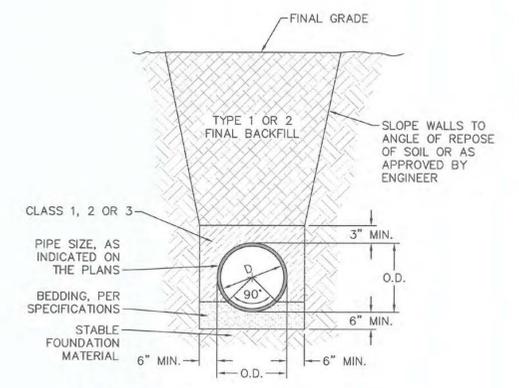
NOTES:
1. BASED ON 160 PSI TEST PRESSURE AND 2000 PSF SOIL BEARING CAPACITY.
2. ALL BEARING SURFACES TO BE CARRIED TO UNDISTURBED GROUND.
3. USE MEG-A-LUG (PREFERRED) IN LIEU OF BLOCKING AND RODDING.



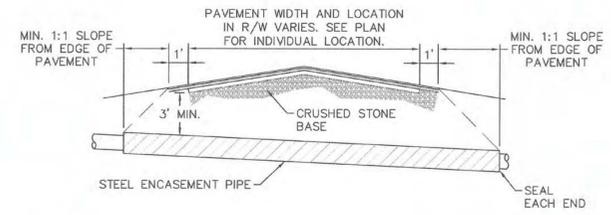
NOTES:
1. BACKFILL SHALL BE SUITABLE MATERIAL THAT IS FREE FROM HEAVY CLAY, GUMBS, DEBRIS, ORGANICS AND LITTLE TO NO EXCESSIVE MOISTURE.
2. SELECT BACKFILL MAY BE SUBSTITUTED OR REQUIRED BY CITY TO ACHIEVE COMPACTION. (I.E. #57, ABC, CRUSHED LIMESTONE, CLEAN SAND, FLOWABLE FILL, ETC.)
3. 8-INCH OF ABC BASE MATERIAL SHALL BE USED ON CITY STREETS.
4. BACKFILL AND BASE MATERIALS SHALL BE COMPACTED 12" MINIMUM LIFTS
5. SOIL SHALL BE COMPACTED BY A MECHANIZED TAMPER (I.E. JUMPING JACK), HOWEVER, VIBRATORY ROLLERS > 18" WIDTH MAY BE USED FOR LARGER EXCAVATIONS. THE PLATE TAMP METHOD SHALL NOT BE USED.
6. ALL APPROVED CASTINGS SHALL BE SET FLUSH TO GRADE AND SUPPORTED IF APPLICABLE.
7. ABC BASE AND SUBBASE COMPACTED TO 98% AND BACKFILL AND EMBEDMENT COMPACTED TO 90% AS DETERMINED BY THE MODIFIED PROCTOR AASHTO METHOD T-99.
8. 1-FOOT CUTBACKS OF ASPHALT SHALL BE PREPARED ON UNDISTURBED SOIL. MINIMUM ASPHALT DENSITY IS 90%.

(FOR PRIVATE ROADS AND PAVED AREAS; CONTRACTOR TO MEET MIN. REQUIREMENTS AS DEFINED BY RIGHT-OF-WAY OWNER FOR PUBLIC ROAD REPAIRS)

WD-14 PAVEMENT REPAIR WHERE PIPE INSTALLED
NOT TO SCALE



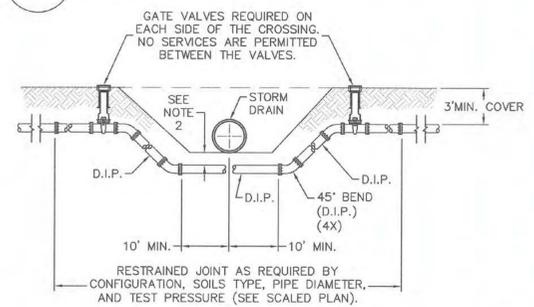
WD-13 TYPICAL TRENCH DETAIL
NOT TO SCALE



WD-4 THRUST BLOCK DETAIL
NOT TO SCALE

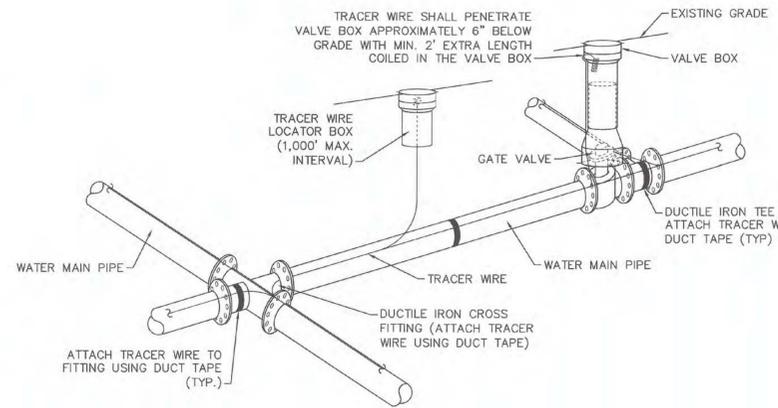
NOTES:
1. CASING WILL BE INSTALLED AT LINE AND GRADE SHOWN ON INDIVIDUAL PROFILE FOR EACH CROSSING. BORING/JACKING TO LINE AND GRADE IS REQUIRED.
2. TRACER WIRE SHALL BE CONTINUED THROUGH CASING.

WD-16 TYPICAL BORING/ JACKING DETAIL
NOT TO SCALE



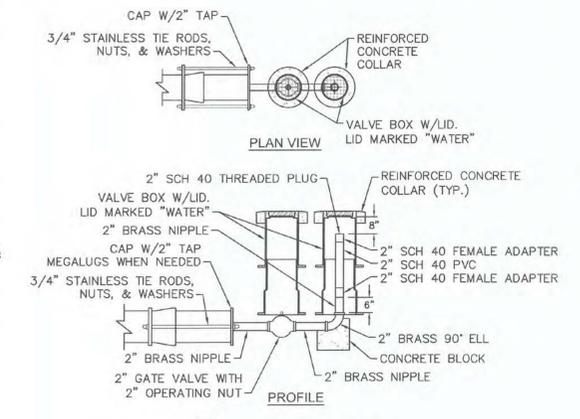
NOTES:
1. USE PRESSURE CLASS 350 DIP, UNLESS SPECIFIED OTHERWISE.
2. MINIMUM DEPTH REQUIRED, UNLESS SPECIFIED OTHERWISE BY CFPUA:
a. IN DOT R/W, 36" MIN. TYPICAL, OR 24" MIN. WHEN CROSSING A DITCH LINE.
b. ALL OTHER LOCATIONS, 30" MIN.
c. WHEN STORM DRAIN INVERT IS BURIED AT OR BELOW ABOVE DEPTHS, 18" MIN. CLEARANCE IS REQUIRED.

WD-2 WATER MAIN DITCH AND STORM DRAIN CROSSING
NOT TO SCALE

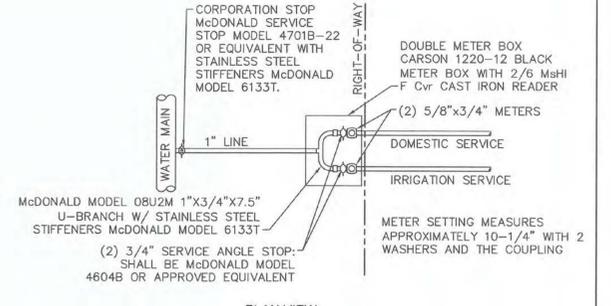


NOTES:
1. TRACER WIRE SHALL BE #10 COPPER SOLID CORE COPPER WIRE WITH GAS AND OIL RESISTANT INSULATION.
2. WIRE SHALL BE STRAPPED TO ALL PVC WATER MAIN PIPING WITH DUCT TAPE AT 12 FOOT INTERVALS ALONG THE PIPE.
3. SECURE WIRE TO ALL TEE AND CROSS FITTINGS WITH DUCT TAPE.
4. ALL SPLICES IN THE WIRE SHALL BE MADE WITH 3M DBR DIRECT BURY SPLICE KIT AN UNDERGROUND RATED, WATERTIGHT, AND APPROVED SPLICE CONNECTOR OR APPROVED EQUAL.

WD-17 TRACER WIRE DETAIL
NOT TO SCALE



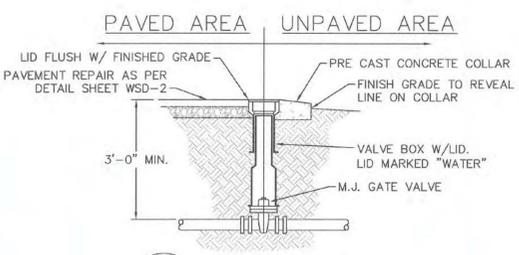
WD-5 2" BLOW-OFF
NOT TO SCALE



WD-9 DOUBLE SERVICE CONNECTION
NOT TO SCALE

GENERAL NOTES:
1. NO EXCAVATED MATERIAL SHALL BE PLACED IN ANY STREAM, DITCH OR DRAINAGE-WAY.
2. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES BEFORE ANY CONSTRUCTION BEGINS.
3. THE CONTRACTOR IS RESPONSIBLE FOR TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES WHILE CONSTRUCTION IS IN PROGRESS.
4. THE CONTRACTOR IS RESPONSIBLE FOR STABILIZATION OF ALL DISTURBED AREAS.
5. THE CONTRACTOR IS RESPONSIBLE FOR LAY DOWN AND STOCKPILE AREAS (TO ARRANGE AND ENSURE COMPLIANCE WITH ALL LOCAL AND STATE REGULATIONS).

THE DETAILS SHOWN HEREON SUPERCEDE CFPUA WRITTEN TECHNICAL SPECIFICATIONS VERSIONS 1.00 - 1.04



WD-3 VALVE DETAIL
NOT TO SCALE



WD-6 SAMPLING STATION
NOT TO SCALE

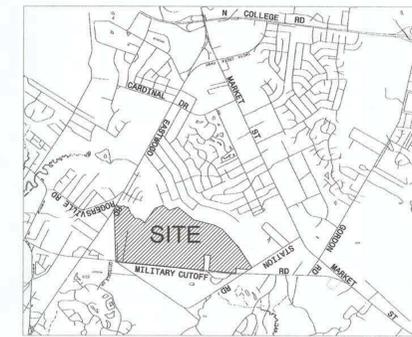
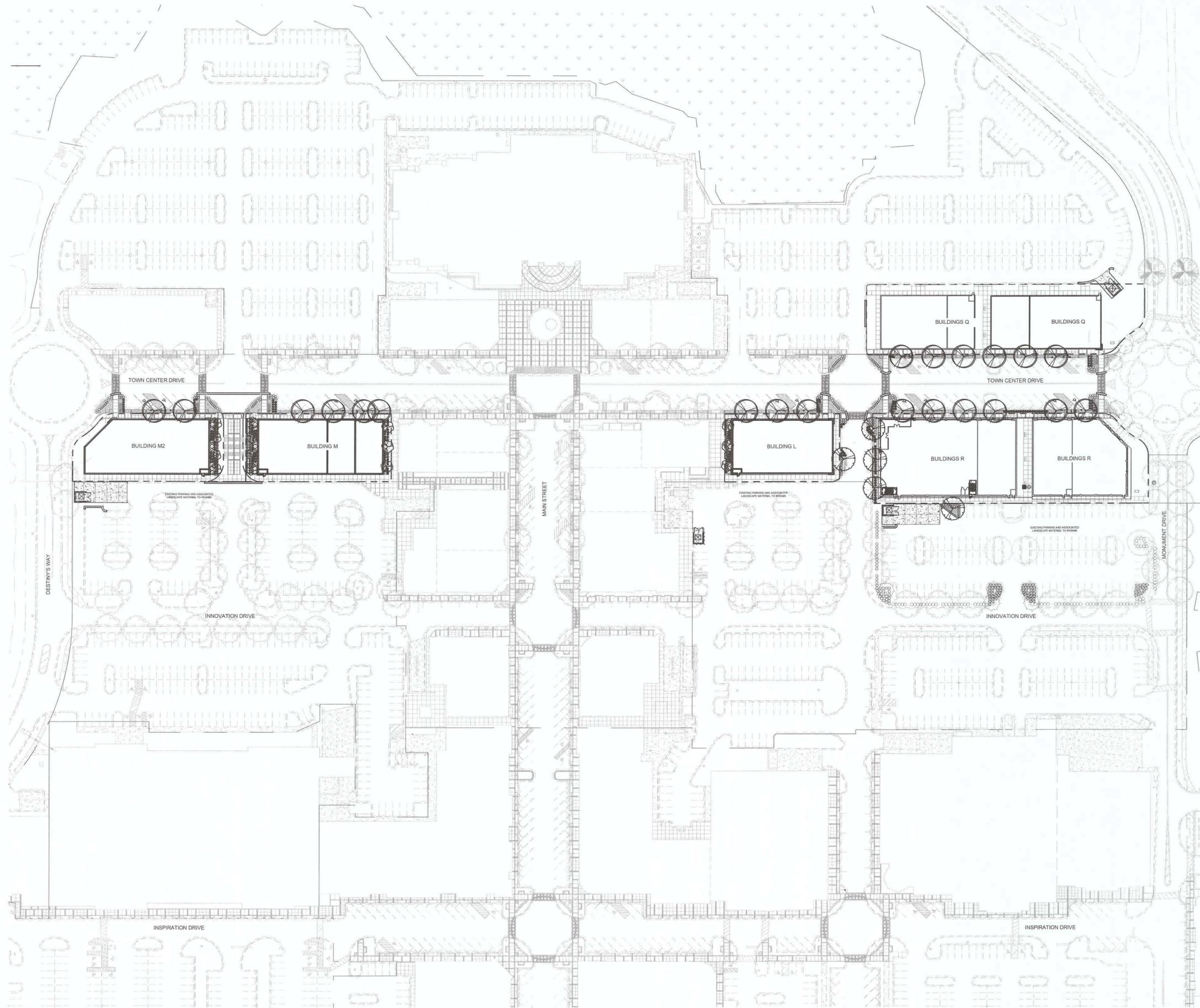
| REV. | DESCRIPTION: | DATE: |
|------|--|----------|
| 1 | Revised Water Main Ditch and Storm Crossing Detail | 11/12/13 |
| 2 | Revised Water Main Ditch and Storm Crossing Detail | 05/05/14 |
| 3 | Revised Tracer Wire Detail | 10/20/15 |
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CFPUA WATER DISTRIBUTION SYSTEM

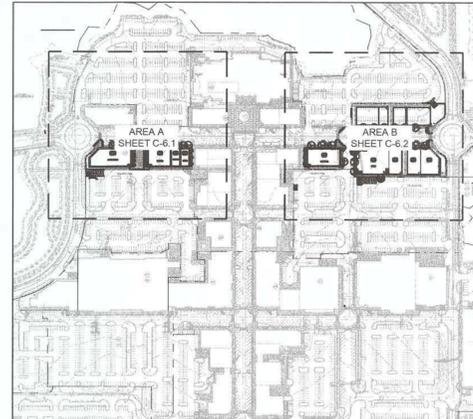
STANDARD DETAILS

CAPE FEAR PUBLIC UTILITY AUTHORITY
235 GOVERNMENT CENTER DRIVE
WILMINGTON, NC 28403
OFFICE: (910)332-6560

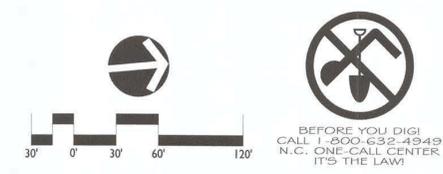
DATE: 1/6/12
SCALE: N/A
DRAWN BY: CFPUA
CHECKED BY: CFPUA
PROJECT NO.:
SHEET NO: WSD-2



VICINITY MAP NOT TO SCALE



SITE LOCATION MAP N.T.S.



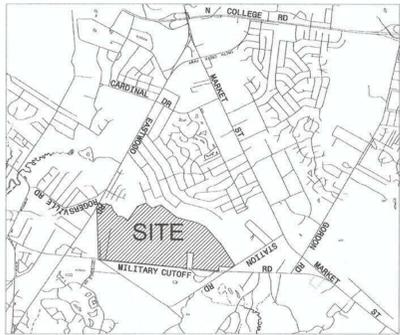
LandDesign
 100 South Orange Ave., Suite 700
 Orlando, FL 32801
 V: 407.270.7800
 www.LandDesign.com
 NC Engineering Firm License #: C-0658



MAYFAIRE TOWN CENTER
PHASE III
 WILMINGTON, NORTH CAROLINA
OVERALL LANDSCAPE PLAN

REVISIONS:
 DATE: 12/02/2015
 DESIGNED BY: KL
 DRAWN BY: KL
 CHECKED BY: DGG
 SCALE: 1"=60'
 PROJECT #: 1015249
 SHEET #:
C-6.0

BEFORE YOU DIG!
 CALL 1-800-632-4949
 N.C. ONE-CALL CENTER
 IT'S THE LAW!

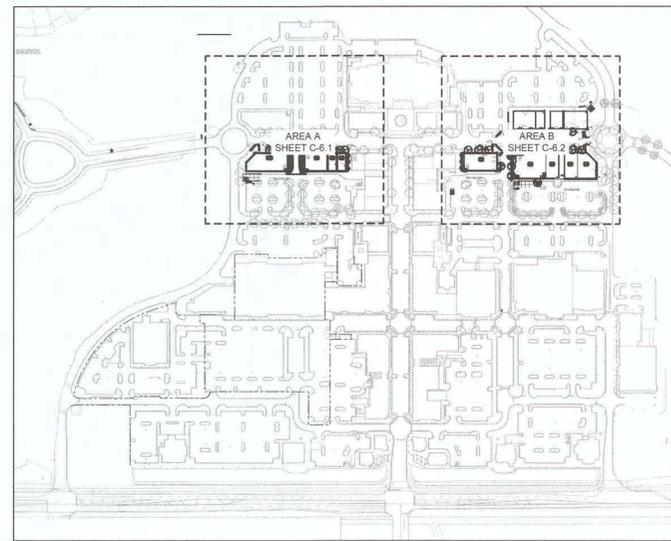


VICINITY MAP NOT TO SCALE

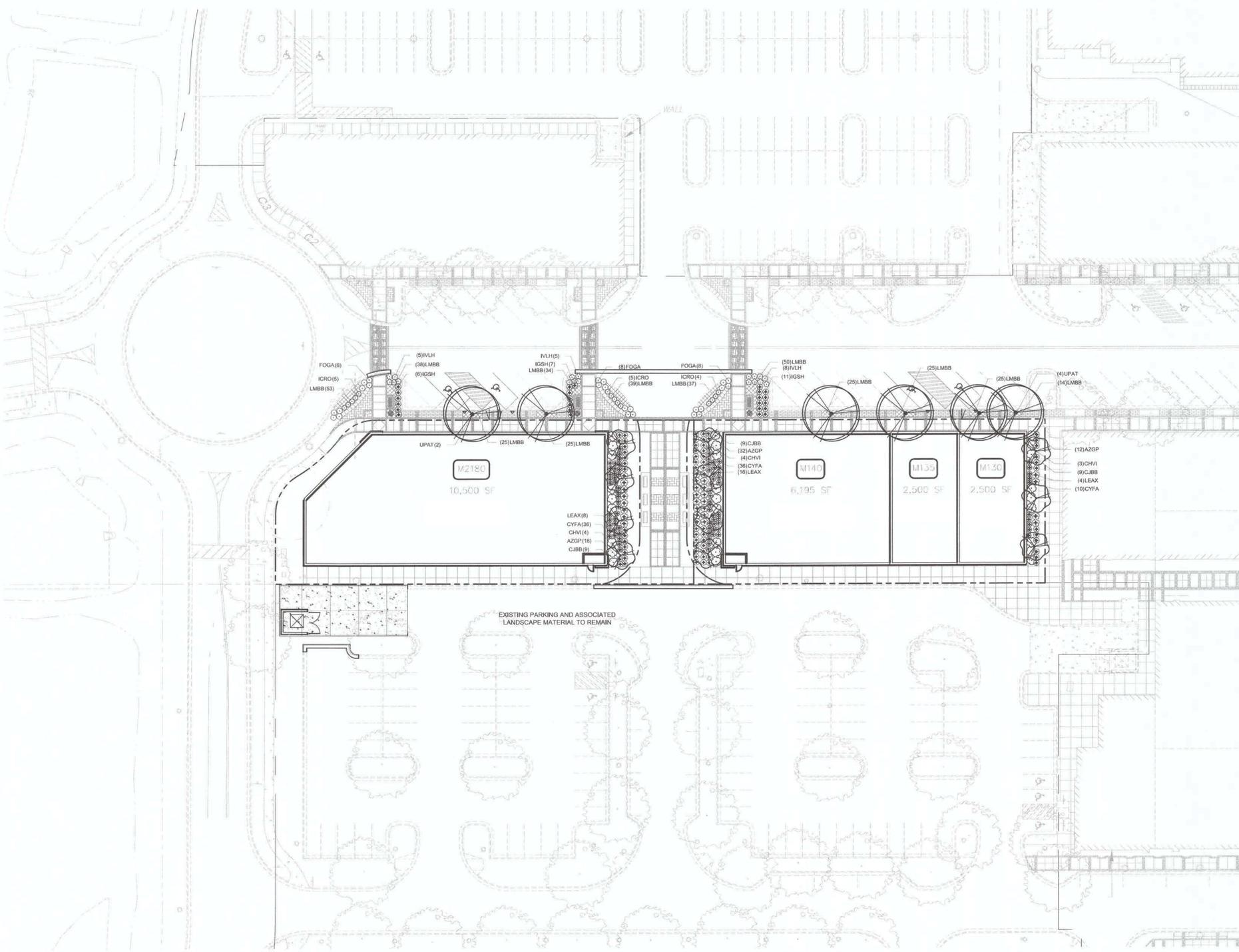
GENERAL NOTES:

- THIS PLAN FOR PLANTING LOCATIONS ONLY.
- CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL PLANT MAINTENANCE, INCLUDING SHRUBS AND GROUND COVER, AND SHALL MAINTAIN AREA IN A WEED AND DEBRIS FREE CONDITION, THROUGHOUT THE ONE YEAR GUARANTEE PERIOD.
- ALL DIMENSIONS TO BE TAKEN FROM BACK OF CURB.
- CONTRACTOR SHALL LAY OUT AND CLEARLY STAKE ALL PROPOSED IMPROVEMENTS INCLUDED ON THIS PLAN.
- CONTRACTOR IS RESPONSIBLE FOR VERIFYING UTILITY LINE LOCATIONS PRIOR TO INSTALLATION OF PLANT MATERIAL. TREES SHALL BE LOCATED A MINIMUM OF 5' FROM SEWER/WATER CONNECTIONS. CONTRACTOR SHALL BE LIABLE FOR DAMAGE TO ANY AND ALL PUBLIC OR PRIVATE UTILITIES.
- QUANTITIES AS SHOWN ON THE PLAN SHALL GOVERN OVER PLANT LIST QUANTITIES. CONTRACTOR TO VERIFY PLANT LIST TOTALS WITH QUANTITIES SHOWN ON PLAN. LANDSCAPE ARCHITECT SHALL BE ALERTED BY CONTRACTOR OF ANY DISCREPANCIES PRIOR TO FINAL BID NEGOTIATION. UNIT PRICES FOR ALL MATERIAL SHALL BE SUPPLIED TO THE OWNER AT BIDDING TIME.
- ALL MATERIALS SHALL BE SUBJECT TO APPROVAL BY THE LANDSCAPE ARCHITECT. OWNER SHALL RECEIVE TAG FROM EACH PLANT SPECIES AND A LIST OF PLANT SUPPLIERS. WHERE ANY REQUIREMENTS ARE OMITTED FROM THE PLANT LIST, THE PLANTS FURNISHED SHALL MEET THE NORMAL REQUIREMENTS FOR THE VARIETY PER THE AMERICAN STANDARD FOR NURSERY STOCK, LATEST EDITION, PUBLISHED BY THE AMERICAN ASSOCIATION OF NURSERYMEN (AAN). PLANTS SHALL BE PRUNED PRIOR TO DELIVERY ONLY UPON THE APPROVAL OF THE LANDSCAPE ARCHITECT.
- WHERE TREES ARE PLANTED IN ROWS OR FORMAL GROUPINGS, THEY SHALL BE UNIFORM IN SIZE AND SHAPE.
- SIZES SPECIFIED IN THE PLANT LIST ARE MINIMUM SIZES TO WHICH THE PLANTS ARE TO BE JUDGED. FAILURE TO MEET MINIMUM SIZE ON ANY PLANT WILL RESULT IN REJECTION OF THAT PLANT.
- ALL PLANTS SHALL BE FRESHLY DUG, SOUND, HEALTHY, VIGOROUS, WELL BRANCHED, FREE OF DISEASE, INSECT EGGS, AND LARVAE, AND SHALL HAVE ADEQUATE ROOT SYSTEMS.
- ALL CONTAINER GROWN MATERIAL SHALL BE HEALTHY, VIGOROUS, WELL-ROOTED PLANTS AND ESTABLISHED IN THE CONTAINER IN WHICH THEY ARE SOLD. THE PLANTS SHALL HAVE TOPS WHICH ARE GOOD QUALITY AND ARE IN A HEALTHY GROWING CONDITION.
- GROUPS OF SHRUBS SHALL BE PLACED IN A CONTINUOUS MULCH BED WITH SMOOTH CONTINUOUS LINES. ALL MULCH BED EDGES SHALL BE CURVILINEAR IN SHAPE FOLLOWING THE CONTOUR OF THE PLANT MASS. TREES LOCATED WITHIN FOUR FEET OF SHRUB BEDS SHALL SHARE SAME MULCH BED.
- NO EXISTING TREES SHALL BE REMOVED WITHOUT WRITTEN AUTHORIZATION FROM THE OWNER EXCEPT WHERE NOTED ON PLANS.
- TREES SHALL BE LOCATED A MINIMUM OF 3' FROM WALLS AND WALKS WITHIN THE PROJECT. IF CONFLICTS ARISE BETWEEN ACTUAL SIZE OF AREA AND PLANS, CONTRACTOR SHALL CONTACT LANDSCAPE ARCHITECT FOR RESOLUTION. FAILURE TO MAKE SUCH CONFLICTS KNOWN TO THE OWNER OR LANDSCAPE ARCHITECT WILL RESULT IN CONTRACTOR'S LIABILITY TO RELOCATE MATERIALS.

- LARGE GROWING PLANTS ARE NOT TO BE PLANTED IN FRONT OF WINDOWS, UNDER BUILDING OVERHANGS, OR IN DRAINAGE SWALES. SHRUBS PLANTED NEAR H.V.A.C. UNITS TO BE LOCATED SO THAT SHRUBS AT MATURITY WILL MAINTAIN 1'-0" AIRSPACE BETWEEN UNIT AND PLANT.
- CONTRACTOR TO SLIGHTLY ADJUST PLANT LOCATIONS IN THE FIELD AS NECESSARY TO BE CLEAR OF DRAINAGE SWALES AND UTILITIES. FINISHED PLANTING BEDS SHALL BE GRADED SO AS TO NOT IMPEDE DRAINAGE AWAY FROM BUILDINGS.
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- ALL SUBSTITUTIONS OF PLANT MATERIAL ARE TO BE REQUESTED IN WRITING TO THE LANDSCAPE ARCHITECT AND APPROVED IN WRITING BY THE OWNER. FAILURE TO OBTAIN SUBSTITUTION APPROVAL IN WRITING MAY RESULT IN LIABILITY TO THE CONTRACTOR.
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- CONTINUOUS ROWS OF SHRUBS SHALL CONTAIN A MULCH BED LARGE ENOUGH TO ACCOMMODATE THE ROOT BALL AND PLANT DRIP LINE. BEYOND THIS MULCH EDGE IS TO BE TURF TO CURB, PAVEMENT OR BUILDING FACE.



SITE LOCATION MAP N.T.S.



PLANT SCHEDULE AREA A

| TREES | CODE | QTY | BOTANICAL NAME / COMMON NAME | CONT | CAL | SIZE |
|---------------|------|-----|---|------------------|------------|--------------|
| | CV | 11 | Chionanthus virginicus / White Fringetree MATCHED SPECIMEN | B & B | 2.5"Cal | 10'-12' HT |
| | CJBB | 27 | Cleyera japonica 'Bronze Beauty' / Bronze Beauty Cleyera | B & B | | 4'-6' HT |
| | UPA | 6 | Ulmus parvifolia 'Athena' / Athena Elm MATCHED SPECIMEN | B & B | 3.5"Cal | 14'-16' HT. |
| SHRUBS | CODE | QTY | BOTANICAL NAME / COMMON NAME | SIZE | HEIGHT | SPREAD |
| | AZGP | 62 | Azalea Satsuki Hybrid 'Gumpo Pink' / Satsuki Azalea | 3 gal | 15"-18" HT | 15"-18" |
| | CYFA | 82 | Cyrtomium falcatum / Holly Fern | 3 gal | 18"-24" HT | 18"-24" |
| | FOGA | 24 | Fothergilla gardenii / Dwarf Fothergilla | 3 gal | 24"-30" HT | 15"-18" MIN. |
| | ICR | 14 | Ilex crenata 'Rotundifolia' / Roundleaf Japanese Holly | 3 gal | 18"-24" HT | 18"-24" |
| | IGSH | 24 | Ilex glabra 'Shamrock' / Inkberry | 3 gal | 24"-30" HT | 15"-18" MIN. |
| | IVLH | 18 | Itea virginica 'Little Henry' TM / Virginia Sweetspire | 3 gal | 18"-24" HT | 18"-24" |
| | LEAX | 29 | Leucothoe axillaris / Coastal Leucothoe | 3 gal | 18"-24" HT | 15"-18" |
| GROUND COVERS | CODE | QTY | BOTANICAL NAME / COMMON NAME | CONT | | |
| | LMBB | 601 | Liriope muscari 'Big Blue' / Big Blue Lilyturf | 1 gal @ 12" O.C. | | |

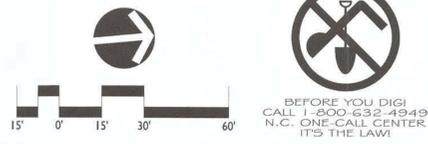
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 www.LandDesign.com
 NC Engineering Firm License #: C-0558



MAYFAIRE TOWN CENTER
PHASE III
 WILMINGTON, NORTH CAROLINA
LANDSCAPE PLAN AREA A

DATE: 12/02/2015
 DESIGNED BY: KL
 DRAWN BY: KL
 CHECKED BY: DGG
 SCALE: 1"=30'
 PROJECT #: 1015249
 SHEET #: **C-6.1**



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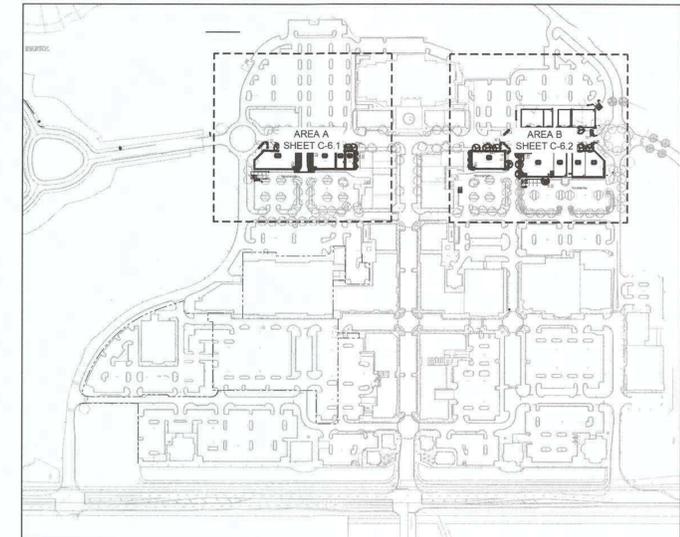


VICINITY MAP NOT TO SCALE

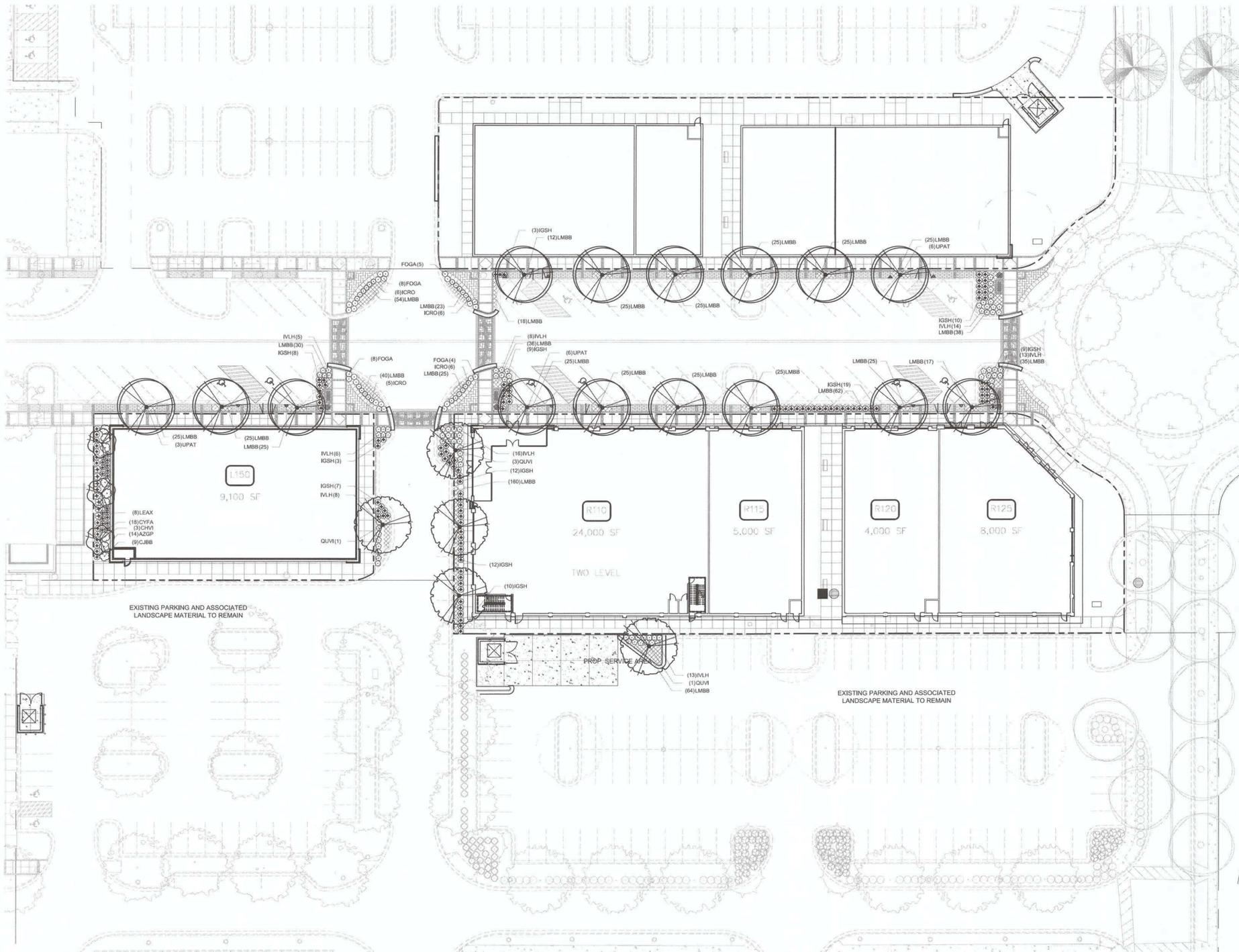
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SITE LOCATION MAP N.T.S.



PLANT SCHEDULE AREA B

| TREES | CODE | QTY | BOTANICAL NAME / COMMON NAME | CONT | CAL | SIZE |
|---------------|------|-------|---|------------------|------------|--------------|
| | CV | 3 | Chionanthus virginicus / White Fringetree MATCHED SPECIMEN | B & B | | 4'-6" HT |
| | CJBB | 9 | Cleyera japonica 'Bronze Beauty' / Bronze Beauty Cleyera | B & B | | 4'-6" HT |
| | QV | 5 | Quercus virginiana / Southern Live Oak MATCHED SPECIMEN | B & B | 3.5" Cal | 14'-16" HT. |
| | UPA | 15 | Ulmus parvifolia 'Athena' / Athena Elm MATCHED SPECIMEN | B & B | 3.5" Cal | 14'-16" HT. |
| SHRUBS | CODE | QTY | BOTANICAL NAME / COMMON NAME | SIZE | HEIGHT | SPREAD |
| | AZGP | 14 | Azalea Satsuki Hybrid 'Gumpo Pink' / Satsuki Azalea | 3 gal | 15'-18" HT | 15'-18" |
| | CYFA | 18 | Cyrtomium falcatum / Holly Fern | 3 gal | 18"-24" HT | 18"-24" |
| | FOGA | 25 | Fothergilla gardenii / Dwarf Fothergilla | 3 gal | 24"-30" HT | 15"-18" MIN. |
| | ICR | 23 | Ilex crenata 'Rotundifolia' / Roundleaf Japanese Holly | 3 gal | 18"-24" HT | 18"-24" |
| | IGSH | 102 | Ilex glabra 'Shamrock' / Inkberry | 3 gal | 24"-30" HT | 15"-18" MIN. |
| | IVLH | 83 | Itea virginica 'Little Henry' TM / Virginia Sweetspire | 3 gal | 18"-24" HT | 18"-24" |
| | LEAX | 8 | Leucothoe axillaris / Coastal Leucothoe | 3 gal | 18"-24" HT | 15"-18" |
| GROUND COVERS | CODE | QTY | BOTANICAL NAME / COMMON NAME | CONT | | |
| | LMBB | 1,510 | Liriope muscari 'Big Blue' / Big Blue Lilyturf | 1 gal @ 12" O.C. | | |

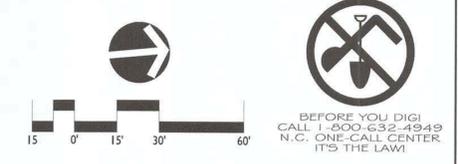
- NOTES:**
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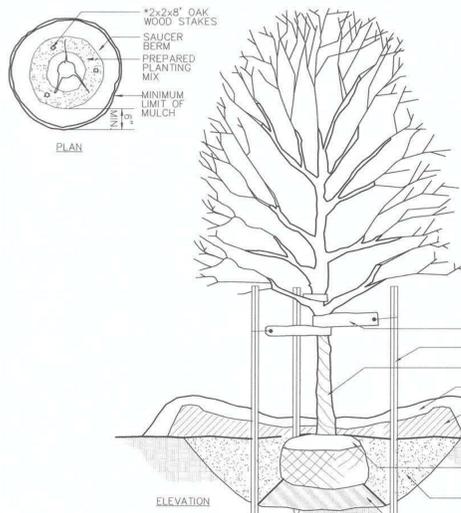
LandDesign
 100 South Orange Ave., Suite 700
 Orlando, FL 32801
 V-407.270.7800
 www.LandDesign.com
 NC Engineering Firm License # C-059



MAYFAIRE TOWN CENTER
PHASE III
 WILMINGTON, NORTH CAROLINA
LANDSCAPE PLAN AREA B

REVISIONS:
 DATE: 12/02/2015
 DESIGNED BY: KL
 DRAWN BY: KL
 CHECKED BY: DGG
 SCALE: 1"=30'
 PROJECT #: 015249
 SHEET #: **C-6.2**



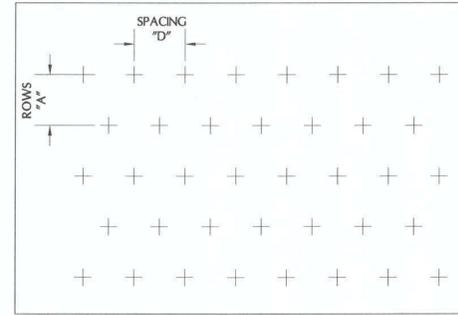


GENERAL NOTES:

1. ALL TREES ARE TO BE NURSERY GROWN, BURLAP AND BALL (B&B). MINIMUM TREE SIZE IS PER SCHEDULE (MEASURED 6" ABOVE ROOT BALL).
2. REMOVE ALL TREATED OR PLASTIC-COATED BURLAP, STRAPPING, WIRE OR NYLON TWINE FROM ROOT BALL. AFTER SETTING IN HOLE, CUT AWAY TOP AND SIDES OF WIRE BASKET, IF ANY.
3. INSTALL TOP OF PLANT BALL EVEN WITH OR 1" ABOVE EXISTING GRADE.
4. SET TREE IN VERTICAL POSITION PRIOR TO STAKING.
5. SOAK PLANT BALL AND PIT IMMEDIATELY AFTER INSTALLATION. PLACE 4"-6" OF SEASONED MULCH OR PINE NEEDLES AROUND BASE OF TREE, 3' DIAMETER MINIMUM.
6. WRAP TREES FROM GROUND TO LOWEST BRANCHES WITH BURLAP OR TREE WRAP PAPER (OPTIONAL). SECURE NEAR TOP AND BOTTOM WITH HEMP STRING ONLY.
7. TREE BRACING STRAPS ARE OPTIONAL. USE POLYPROPYLENE WEBBING ONLY. NO WIRE OR ROPE TO BE IN DIRECT CONTACT WITH TRUNK. REMOVE ALL TREE STRAPS AND TRUNK WRAP AFTER ONE GROWING SEASON.
8. GUY WIRES ARE NOT PERMITTED IN STREET RIGHT-OF-WAY.

1 TREE PLANTING
C-6.3 SECTION

NOT TO SCALE

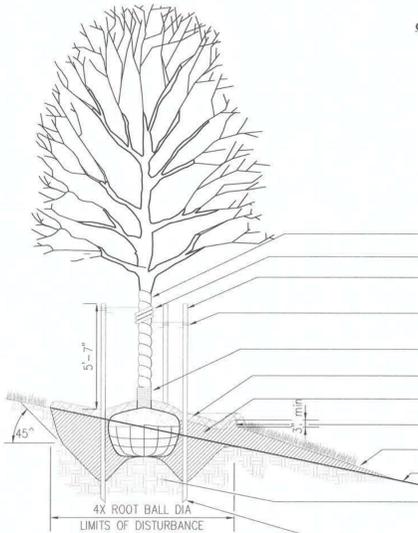


PLANT SPACING CHART

| SPACING "D" | ROW "A" | PLANTS / S.F. |
|-------------|-------------|---------------|
| 6" O.C. | 5.20' O.C. | 4.61 |
| 8" O.C. | 6.93' O.C. | 2.60 |
| 10" O.C. | 8.66' O.C. | 1.66 |
| 12" O.C. | 10.40' O.C. | 1.15 |
| 15" O.C. | 13.00' O.C. | 0.73 |
| 18" O.C. | 15.60' O.C. | 0.51 |
| 24" O.C. | 20.80' O.C. | 0.29 |

4 TRIANGULAR SPACING FOR SHRUBS AND GROUNDCOVERS
C-6.3 PLAN

NOT TO SCALE

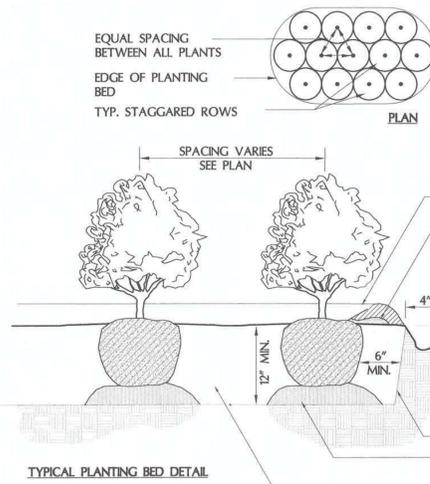


GENERAL NOTES:

1. CONTRACTOR TO REGRADE, SOD OR HYDROSEED AND STRAW MULCH ALL AREAS DISTURBED AS A RESULT OF HIS OR HER WORK.
2. UPRIGHT STAKES TO BE USED ON TREES UP TO 12' IN HEIGHT. LARGER TREES MUST BE GUYED.
3. 1/8 OF ROOT BALL TO BE ABOVE FINISHED GRADE.
4. DO NOT COVER ROOT CROWN.
5. REMOVE TOP 1/3 OF ALL BURLAP FABRIC AROUND ROOT BALL.

2 TREE PLANTING ON SLOPE
C-6.3 SECTION

NOT TO SCALE



GENERAL NOTES:

1. OMIT COLLAR AROUND EACH SHRUB WHEN IRRIGATION SYSTEM IS PRESENT.
2. INSTALL TOP OF PLANT BALL 2" ABOVE ADJACENT GRADE.
3. TAMP PLANTING MIX FIRMLY AS PIT IS FILLED AROUND EACH PLANT BALL.
4. SOAK EACH PLANT BALL AND PIT IMMEDIATELY AFTER INSTALLATION.

3 SHRUB PLANTING
C-6.3 SECTION AND PLAN

NOT TO SCALE

REVISIONS: