

# SITE DEVELOPMENT PLANS for ABBOTTS RUN CLUBHOUSE EXPANSION

511 COBBLESTONE DRIVE  
Wilmington, North Carolina

PRELIMINARY DESIGN  
NOT RELEASED FOR  
CONSTRUCTION

ISSUED FOR AGENCY  
REVIEW ONLY

**OWNER:**

WILMINGTON AR HOUSING LLC  
19 N. KING STREET  
SUITE A  
LEESBURY, VA 28405

**ARCHITECT:**

KOT HOSTETLER ARCHITECTS  
2906 MARKET STREET, SUITE 101  
WILMINGTON, NC 28403

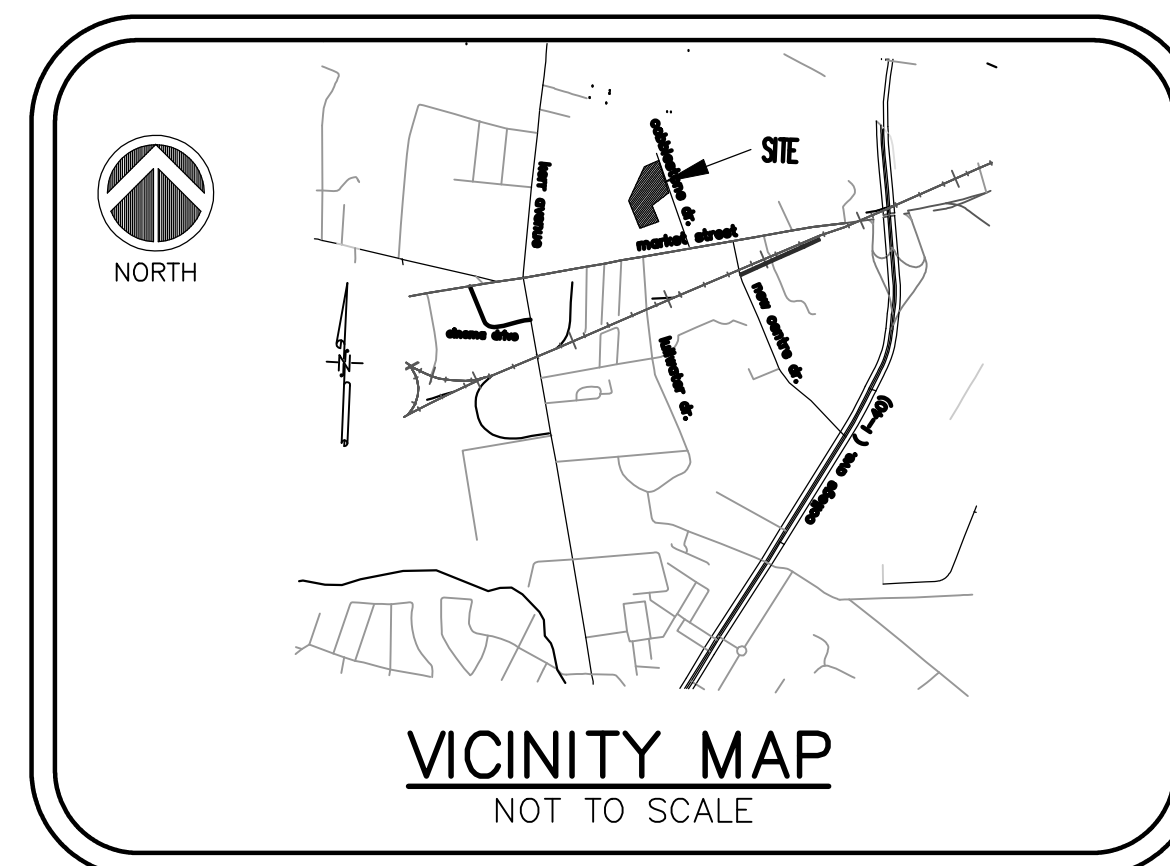
**DESIGNER**



**Coastal Land Design, PLLC**

Civil Engineering / Landscape Architecture  
Land Planning / Construction Management  
NCBELS Firm License No: P-0369

P.O.Box 1172 Phone: 910-254-9333  
Wilmington, NC 28402 www.cldeng.com Fax: 910-254-0502



CONTENTS

INDEX	
SP.01	MASTER PLAN
SP.02	EXISTING CONDITIONS
SP.03	DEMOLITION PLAN
SP.04	SITE PLAN
SP.05	UTILITY PLAN
SP.06	DRAINAGE PLAN
SP.07	LANDSCAPE PLAN
SP.08	SITE DETAILS
SP.09	SITE DETAILS-2
A-4	BUILDING ELEVATIONS

**GENERAL NOTES:**

- PRIOR TO ANY CLEARING, GRADING OR CONSTRUCTION ACTIVITY, TREE PROTECTION FENCING SHALL BE INSTALLED AROUND PROTECTED TREES OR GROVES OF TREES. NO CONSTRUCTION WORKERS, TOOLS, MATERIALS, OR VEHICLES ARE PERMITTED WITHIN THE TREE PROTECTION FENCING.
- ANY TREES AND/OR AREAS DESIGNATED TO BE PROTECTED MUST BE PROPERLY BARRICADED WITH FENCING AND PROTECTED THROUGHOUT CONSTRUCTION TO INSURE THAT NO CLEARING, GRADING OR STAGING OF MATERIALS WILL OCCUR IN THOSE AREAS.
- NO EQUIPMENT IS ALLOWED ON SITE UNTIL ALL TREE PROTECTION FENCING AND SILT FENCING IS INSTALLED AND APPROVED. PROTECTIVE FENCING IS TO BE MAINTAINED THROUGHOUT THE DURATION OF THE PROJECT, AND CONTRACTORS SHALL RECEIVE ADEQUATE INSTRUCTION ON TREE PROTECTION METHODS.
- ALL PAVEMENT MARKINGS IN PUBLIC RIGHTS-OF-WAY AND FOR DRIVEWAYS ARE TO BE THERMOPLASTIC AND MEET CITY AND/OR NCDOT STANDARDS.
- 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.
- 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 OR DRIVEWAY PANEL OR CURBING WILL BE REPLACED.
- CONTACT TRAFFIC ENGINEERING 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 METER(S) CANNOT BE RELEASED UNTIL ALL REQUIREMENTS ARE MET AND THE STATE HAS GIVEN THEIR FINAL APPROVAL. CALL 910-343-3910 FOR INFORMATION.
- IF THE CONTRACTOR DESIRES CFPUA WATER FOR CONSTRUCTION, HE SHALL APPLY IN ADVANCE FOR THIS SERVICE AND MUST PROVIDE A REDUCED PRESSURE ZONE (RPZ) BACKFLOW PREVENTION DEVICE ON THE DEVELOPER'S SIDE OF THE WATER METER BOX.
- ANY IRRIGATION SYSTEM SUPPLIED BY CFPUA WATER SHALL COMPLY WITH THE CFPUA CROSS CONNECTION CONTROL REGULATIONS. CALL 919-343-3910 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 USCFCCHRR 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 LINE(S) 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 910-341-0696.
- 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.

**GENERAL UTILITY NOTE:**

THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS ARE BASED ON RECORDS FROM THE UTILITY COMPANY AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY LOCATION OF ALL EXISTING UTILITIES. ANY CONFLICTS SHALL BE BROUGHT TO THE OWNERS AND ENGINEERS ATTENTION IMMEDIATELY.

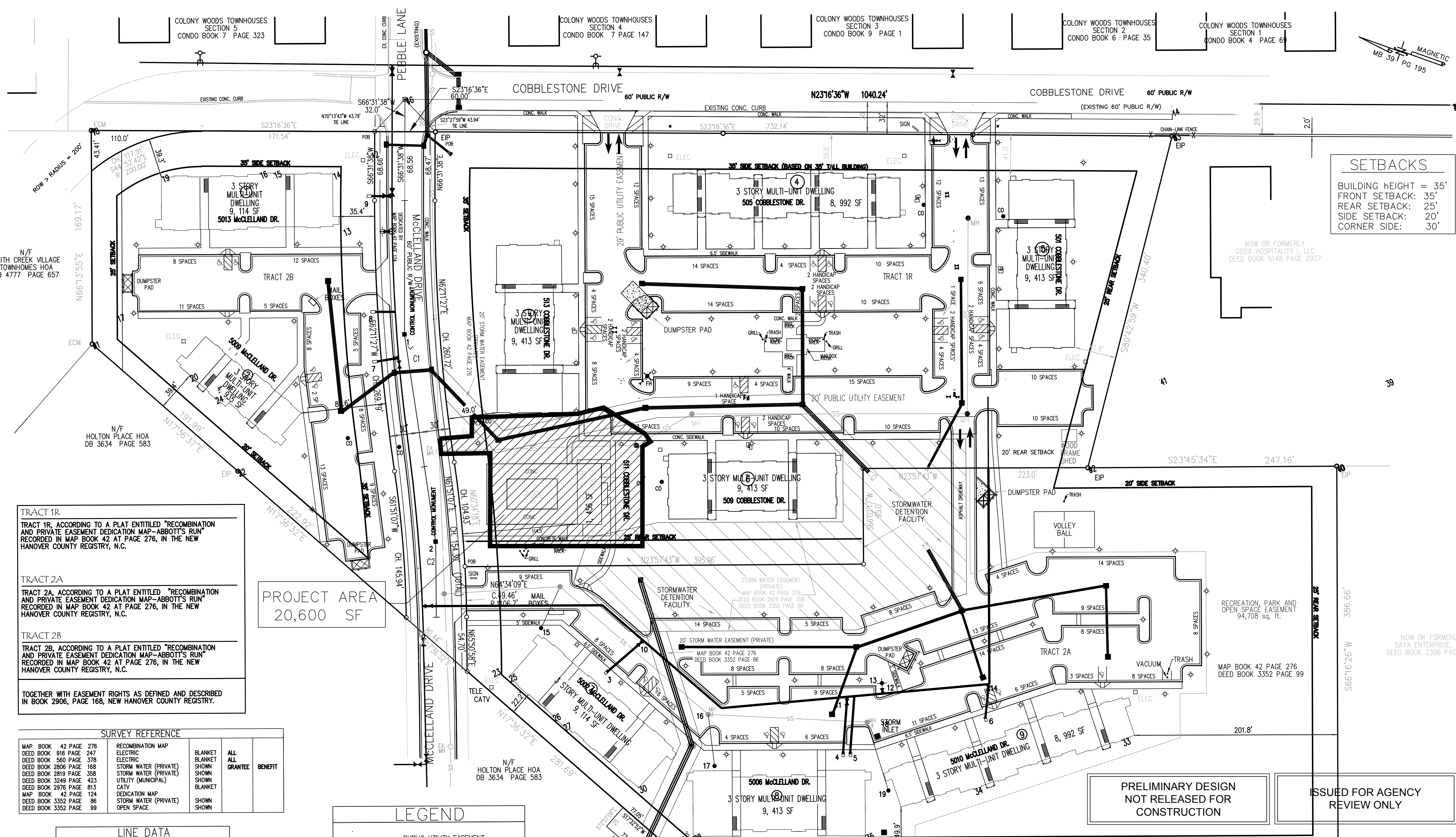
WILMINGTON NORTH CAROLINA  
Approved Construction Plan  
Name \_\_\_\_\_ Date \_\_\_\_\_

Planning \_\_\_\_\_  
Traffic \_\_\_\_\_  
Fire \_\_\_\_\_

WILMINGTON NORTH CAROLINA  
Public Services Engineering Division  
APPROVED DRAINAGE PLAN

Date: \_\_\_\_\_ Permit # \_\_\_\_\_  
Signed: \_\_\_\_\_

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



**SETBACKS**  
 BUILDING HEIGHT = 35'  
 FRONT SETBACK: 35'  
 REAR SETBACK: 25'  
 SIDE SETBACK: 20'  
 CORNER SIDE: 30'

**PROJECT AREA**  
 20,600 SF

**TRACT 1R**  
 TRACT 1R, ACCORDING TO A PLAT ENTITLED "RECOMBINATION AND PRIVATE EASEMENT DEDICATION MAP-ABBOTT'S RUN" RECORDED IN MAP BOOK 42 AT PAGE 276, IN THE NEW HANOVER COUNTY REGISTRY, N.C.

**TRACT 2A**  
 TRACT 2A, ACCORDING TO A PLAT ENTITLED "RECOMBINATION AND PRIVATE EASEMENT DEDICATION MAP-ABBOTT'S RUN" RECORDED IN MAP BOOK 42 AT PAGE 276, IN THE NEW HANOVER COUNTY REGISTRY, N.C.

**TRACT 2B**  
 TRACT 2B, ACCORDING TO A PLAT ENTITLED "RECOMBINATION AND PRIVATE EASEMENT DEDICATION MAP-ABBOTT'S RUN" RECORDED IN MAP BOOK 42 AT PAGE 276, IN THE NEW HANOVER COUNTY REGISTRY, N.C.

TOGETHER WITH EASEMENT RIGHTS AS DEFINED AND DESCRIBED IN BOOK 2906, PAGE 168, NEW HANOVER COUNTY REGISTRY.

**SURVEY REFERENCE**

MAP BOOK 42 PAGE 276	RECOMBINATION MAP	BLANKET	ALL	
DEED BOOK 916 PAGE 247	ELECTRIC	BLANKET	ALL	
DEED BOOK 560 PAGE 378	ELECTRIC	BLANKET	ALL	
DEED BOOK 2806 PAGE 168	STORM WATER (PRIVATE)	SHOWN	GRANTEE	BENEFIT
DEED BOOK 2819 PAGE 358	STORM WATER (PRIVATE)	SHOWN	GRANTEE	BENEFIT
DEED BOOK 3249 PAGE 423	UTILITY (MUNICIPAL)	SHOWN	GRANTEE	BENEFIT
DEED BOOK 2976 PAGE 813	CATV	BLANKET	GRANTEE	BENEFIT
MAP BOOK 42 PAGE 124	DEDICATION MAP	SHOWN	GRANTEE	BENEFIT
DEED BOOK 3352 PAGE 86	STORM WATER (PRIVATE)	SHOWN	GRANTEE	BENEFIT
DEED BOOK 3352 PAGE 86	OPEN SPACE	SHOWN	GRANTEE	BENEFIT

**LINE DATA**

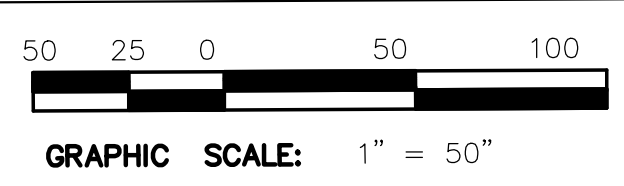
No.	DIRECTION	DISTANCE
L1	S 23°16'36" E	20.00
L2	S 21°08'08" E	16.72
L3	N 23°52'04" W	35.42
L4	N 23°52'04" W	20.00
L5	N 23°52'04" W	35.42
L6	S 23°16'36" E	20.00
L7	S 66°07'57" W	20.00
L8	S 23°52'01" E	33.33
L9	N 24°08'29" W	20.00
L10	N 23°52'01" E	20.00
L11	N 21°07'58" E	20.00
L12	N 21°08'08" E	12.59
L13	N 66°07'58" E	20.00

THIS PROPERTY IS IN A FLOOD ZONE (X) AS SHOWN ON FEMA COMMUNITY PANEL 3720 3138 00J DATED 4/03/06.

**STROUD ENGINEERING, P.A.**  
 102-D CINEMA DRIVE  
 WILMINGTON, NC 28403  
 (910) 815-0775

**LEGEND**

	PUBLIC UTILITY EASEMENT
	EXISTING CONCRETE MONUMENT
	CENTER LINE OF RIGHT-OF-WAY
	AREA LIGHT
	WATER VALVE
	SEWER MAN HOLE
	SEWER CLEAN OUT
	STORM DRAIN STRUCTURE AND LINE
	EXISTING IRON PIPE



TO WILMINGTON AR HOUSING LLC, FINANCIAL FEDERAL BANK, FEDERAL HOME LOAN MORTGAGE CORPORATION, THEIR SUCCESSORS AND ASSIGNS, AND CHICAGO TITLE INSURANCE COMPANY.

THIS IS TO CERTIFY THAT THIS MAP OR PLAT AND THE SURVEY ON WHICH IT IS BASED WERE MADE IN ACCORDANCE WITH THE 2011 MINIMUM STANDARD DETAIL REQUIREMENTS FOR ALTA/ACSM LAND TITLE SURVEYS, JOINTLY ESTABLISHED AND ADOPTED BY ALTA AND NSPS, AND INCLUDES ITEMS 6(b) & 8 OF TABLE A THEREOF. THE FIELD WORK WAS COMPLETED ON 1/27/2016.

DATE OF PLAT OR MAP: 1/27/2016

**WILMINGTON**  
 Approved Construction Plan

Name \_\_\_\_\_ Date \_\_\_\_\_

Planning \_\_\_\_\_  
 Traffic \_\_\_\_\_  
 Fire \_\_\_\_\_

**WILMINGTON**  
 Public Services Engineering Division  
 APPROVED DRAINAGE PLAN

Date: \_\_\_\_\_ Permit # \_\_\_\_\_  
 Signed: \_\_\_\_\_

**AREA SUMMARY**

PARCEL ONE	6.12 ACRES	266,620 SF
PARCEL TWO	6.35 ACRES	276,730 SF
PARCEL THREE	2.24 ACRES	97,681 SF
<b>TOTAL</b>	<b>14.71 ACRES</b>	<b>641,031 SF</b>

**PARKING SPACES**

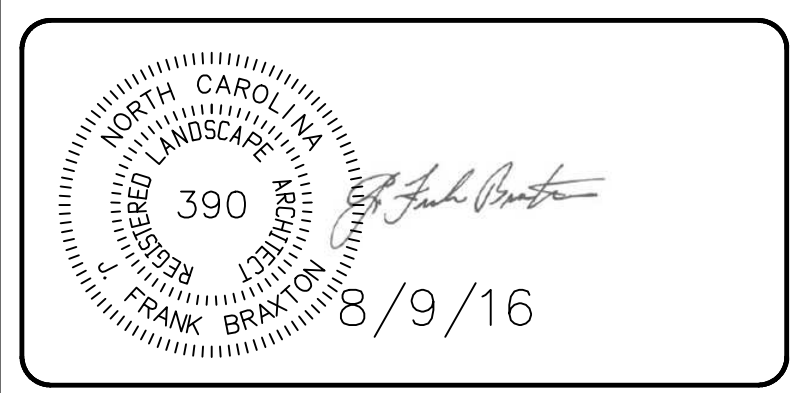
REGULAR	480
HANDICAP	26
<b>TOTAL</b>	<b>506</b>

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



**LEGEND:**

REV. 1	TRC COMMENTS, BUILDING REVISION, IMPERVIOUS REVISIONS, DRAINAGE REVISIONS.	JFB 12/14/16
REV. #	DESCRIPTION	REV. BY DATE
REVISIONS		



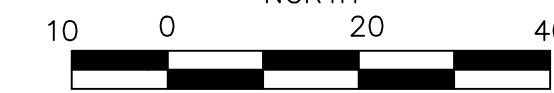
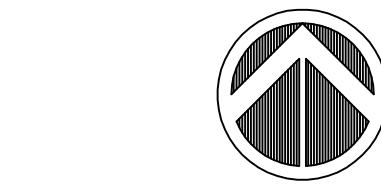
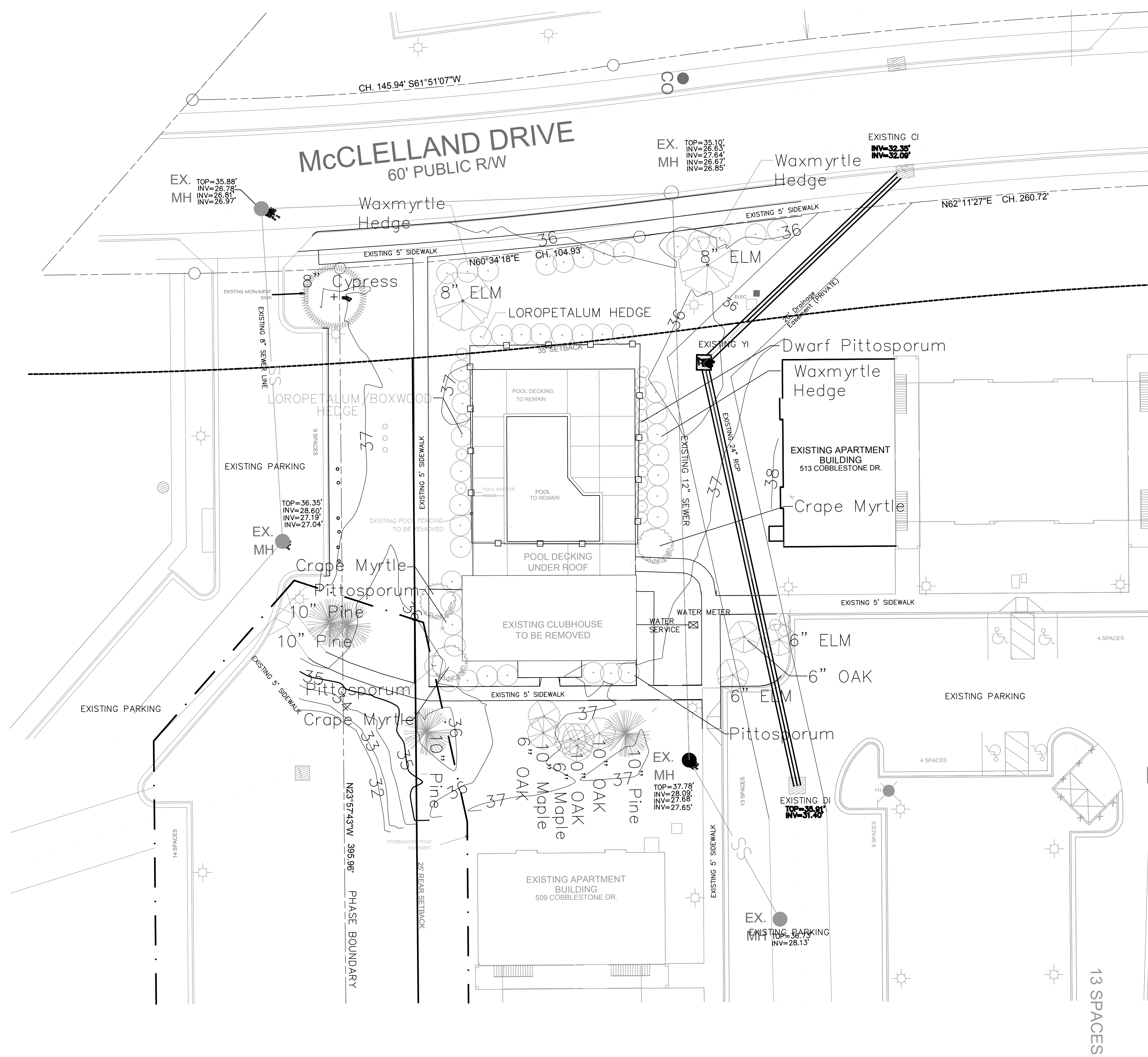
**WILMINGTON AR HOUSING LLC**  
 772 EAST MARKET STREET  
 SUITE 102  
 LEESBURY, VA 28405

**Coastal Land Design, PLLC**  
 Civil Engineering / Landscape Architecture  
 Land Planning / Construction Management  
 NCBELS Firm License No. P-0366  
 P.O. Box 1172  
 Wilmington, NC 28402 www.cdeng.com Phone: 910-254-6333 Fax: 910-254-0502

DRAWN BY: R. LEWIS	PROJECT NUMBER: 984-00
DESIGN BY: F. BRAXTON	SCALE: 1"=50'
CHECK BY: J. PETROFF	DATE: 08 JULY 2016
APPROVED BY: F. BRAXTON	

**ABBOTTS RUN APARTMENTS**  
 511 COBBLESTONE DRIVE  
 WILMINGTON, NC

**MASTER PLAN**



SCALE 1:20 (WHEN PRINTED ON 24 X 36 ARCH D PAPER)

**SITE DATA**

OWNER: WILMINGTON AR HOUSING LLC  
 772 EAST MARKET STREET  
 SUITE 102  
 LEESBURG, VA 20176  
 PIN: R04911-001-022-000  
 PARCEL SIZE: 14.71 AC PROJECT (640,768 SF)  
 DEED: BK 5953 PG1832  
 ZONING: MF-M  
 CLASS: 12-3 + FAMILY RESIDENTIAL  
 CAMA LAND USE: URBAN

**SETBACKS**

BUILDING HEIGHT = 35'  
 FRONT SETBACK: 35'  
 REAR SETBACK: 25'  
 SIDE SETBACK: 20'  
 CORNER SIDE: 30'

**PARKING DATA**

RATIO	REQUIRED
1 BR: 1.5 SPACES/UNIT =	180 SPACES
2-3 BR: 2.25 SPACES/UNIT =	324 SPACES
TOTAL	504 SPACES

TOTAL SITE SPACES: 506 SPACES  
 REQUIRE ADA SPACES @ 2% = 11 SPACES  
 PROVIDED ADA SPACES = 26 SPACES

**BUILDING DATA**

EXISTING BUILDING COVERAGE: 80,254 SF  
 NUMBER OF BUILDING  
 9 APARTMENT BLDGS + CLUBHOUSE  
 NUMBER OF UNITS  
 1 BR: 120 UNITS  
 2-3 BR: 144 UNITS  
 SITE BUILDING COVERAGE: 12.5%  
 ALLOWED COVERAGE: 30%

**STORMWATER DATA**

NCDEQ PERMIT #SW8 990 720  
 PERMITTED BUA = 290,532 SF  
 EXISTING BUA = 290,378 SF (MOD SUBMITTED)



**LEGEND:**

REV. #	TRC COMMENTS, BUILDING REVISION, IMPERVIOUS REVISIONS, DRAINAGE REVISIONS.	JFB
1		12/14/16
REV. #	DESCRIPTION	REV. BY DATE
REVISIONS		



WILMINGTON AR HOUSING LLC  
 772 EAST MARKET STREET  
 SUITE 102  
 LEESBURY, VA 28405



DRAWN : R. LEWIS	PROJECT : 984-00
DESIGN : F. BRAXTON	NUMBER : 984-00
CHECK : J. PETROFF	SCALE : 1"=20'
APPROVED : F. BRAXTON	DATE : 08 JULY 2016
FILE NAME :	

ABBOTTS RUN APARTMENTS  
 511 COBBLESTONE DRIVE  
 WILMINGTON, NC

CLUBHOUSE REPLACEMENT  
 EXISTING CONDITIONS

JOB NUMBER SHEET NUMBER  
 SP.02

TOPO DATA FROM FIELD SURVEY BY  
 ESP ASSOCIATES

**GENERAL UTILITY NOTE:**  
 THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS ARE BASED ON RECORDS FROM THE UTILITY COMPANY AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY LOCATION OF ALL EXISTING UTILITIES. ANY CONFLICTS SHALL BE BROUGHT TO THE OWNERS AND ENGINEERS ATTENTION IMMEDIATELY.

PRELIMINARY DESIGN  
 NOT RELEASED FOR  
 CONSTRUCTION

ISSUED FOR AGENCY  
 REVIEW ONLY

City of WILMINGTON, NORTH CAROLINA  
 Approved Construction Plan

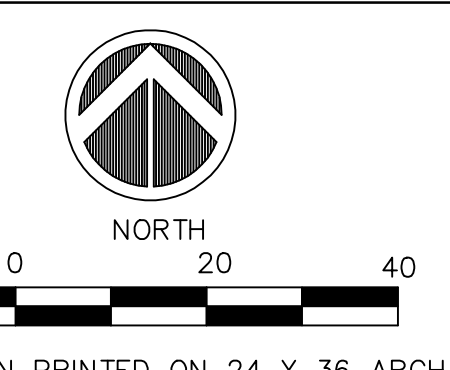
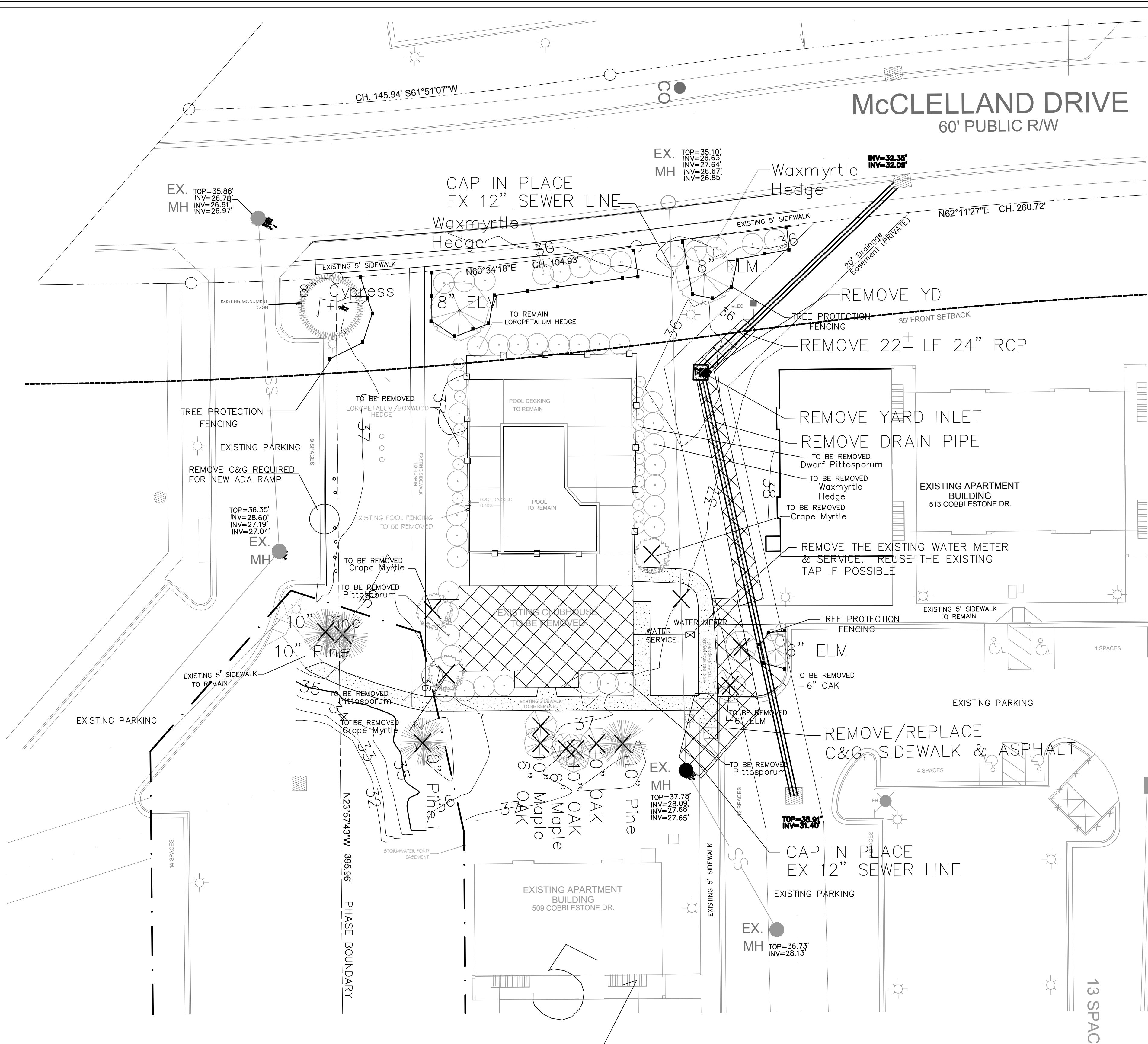
Name \_\_\_\_\_ Date \_\_\_\_\_

Planning \_\_\_\_\_  
 Traffic \_\_\_\_\_  
 Fire \_\_\_\_\_

City of WILMINGTON, NORTH CAROLINA  
 Public Services Engineering Division  
 APPROVED DRAINAGE PLAN

Date: \_\_\_\_\_ Permit # \_\_\_\_\_  
 Signed: \_\_\_\_\_

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



**SITE DATA**

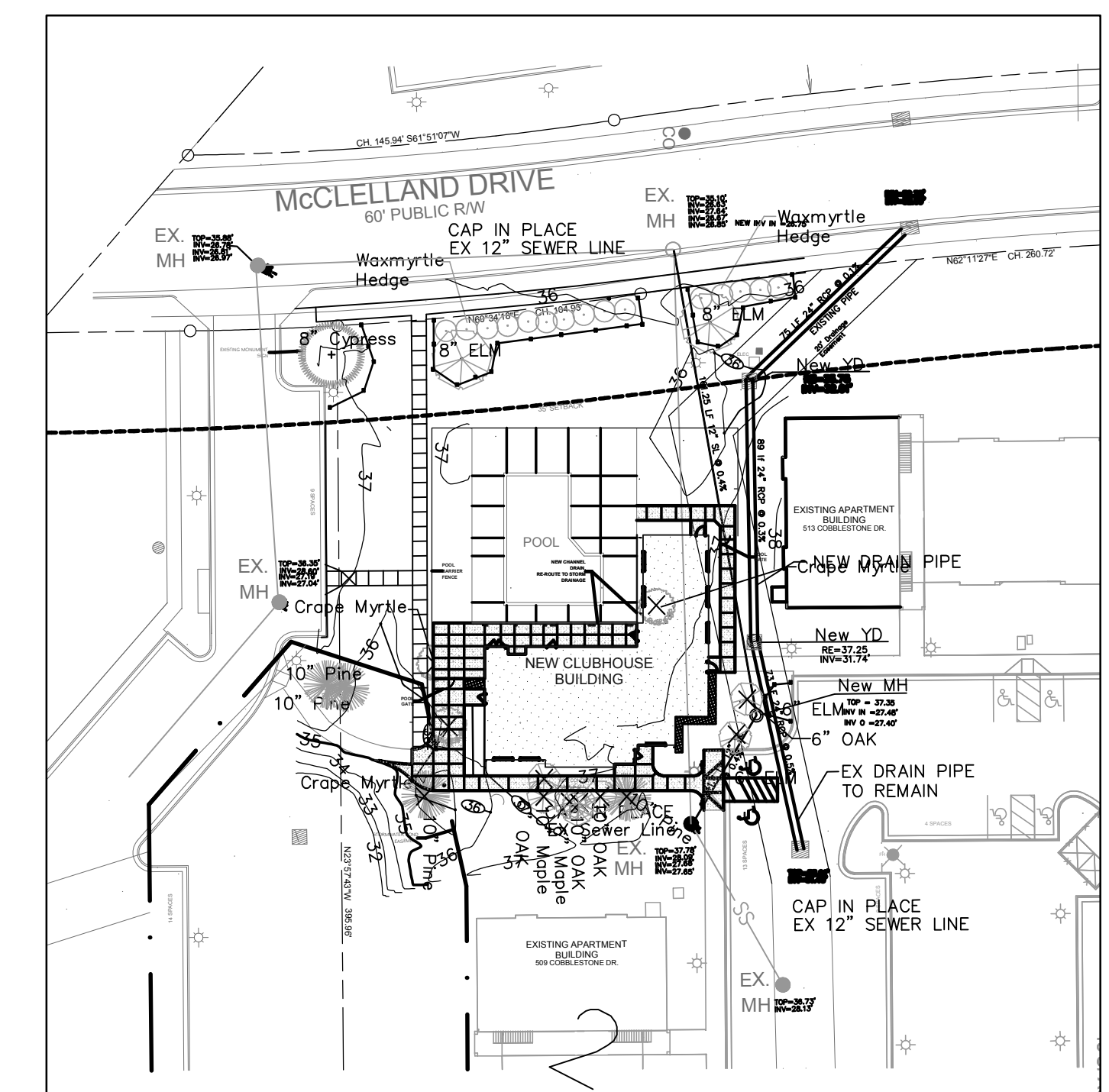
OWNER: WILMINGTON AR HOUSING LLC  
 772 EAST MARKET STREET  
 SUITE 102  
 LEESBURG, VA 20176

PIN: R04911-001-022-000  
 PARCEL SIZE: 14.71 AC PROJECT (640,768 SF)  
 DEED: BK 5953 PG1832  
 ZONING: MF-M  
 CLASS: 12-3 + FAMILY RESIDENTIAL  
 CAMA LAND USE: URBAN

**UTILITY NOTES**

ARCHITECT TO COORDINATE THE WATER, SEWER AND ELECTRICAL SERVICES PER PM&E PLANS.  
 CONTRACTOR TO VERIFY SUBSURFACE UTILITIES RELATED TO THE EXISTING WATER, SEWER AND ELECTRICAL CONNECTIONS.  
 UTILITY CONTRACTOR TO COORDINATE WITH COASTAL LAND DESIGN AND CAPE FEAR PUBLIC UTILITY AUTHORITY RELATED TO THE SEWER MAIN RELOCATION.

TREES TO BE REMOVED ARE WITHIN THE LIMITS OF THE BUILDING AND UTILITY RELOCATION



TOPO DATA FROM FIELD SURVEY BY ESP ASSOCIATES

**EXISTING SHRUB NOTE:**  
 ALL SHRUBS ADJACENT TO THE EXISTING BUILDING AND POOL FENCING TO BE REMOVED.

**GENERAL UTILITY NOTE:**  
 THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS ARE BASED ON RECORDS FROM THE UTILITY COMPANY AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY LOCATION OF ALL EXISTING UTILITIES. ANY CONFLICTS SHALL BE BROUGHT TO THE OWNERS AND ENGINEERS ATTENTION IMMEDIATELY.

PRELIMINARY DESIGN  
 NOT RELEASED FOR  
 CONSTRUCTION

ISSUED FOR AGENCY  
 REVIEW ONLY

**City of WILMINGTON**  
 Approved Construction Plan

Name	Date
Planning _____	
Traffic _____	
Fire _____	

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

**City of WILMINGTON**  
 Public Services Engineering Division  
 APPROVED DRAINAGE PLAN

Date: \_\_\_\_\_ Permit # \_\_\_\_\_  
 Signed: \_\_\_\_\_



- LEGEND:**
- SIDEWALK REMOVAL
  - BUILDING & UTILITY REMOVAL
  - TREE REMOVAL
  - TREE PROTECTION FENCING

REV. #	TRC COMMENTS, BUILDING REVISION, IMPERVIOUS REVISIONS, DRAINAGE REVISIONS	JFB
1		12/14/16
REV. #	DESCRIPTION	REV. BY
REVISIONS		



WILMINGTON AR HOUSING LLC  
 772 EAST MARKET STREET  
 SUITE 102  
 LEESBURG, VA 28405

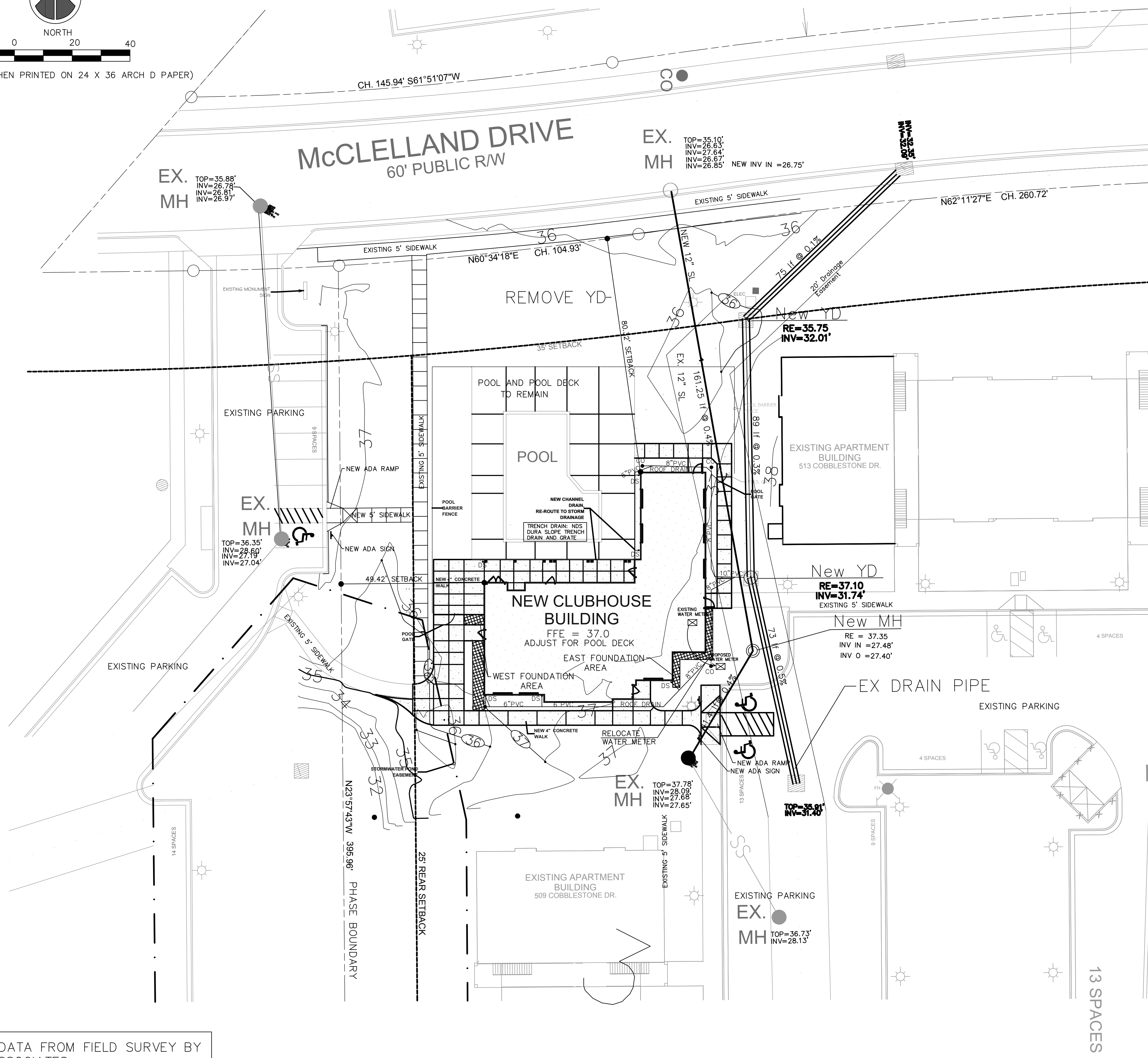
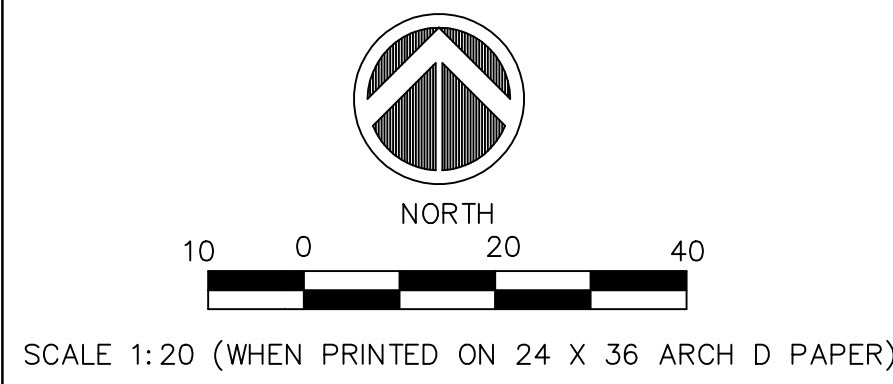


DRAWN : R. LEWIS	PROJECT : 984-00
DESIGN : F. BRAXTON	NUMBER : 1
CHECK : J. PETROFF	SCALE : 1"=20'
APPROVED : F. BRAXTON	DATE : 08 JULY 2016
FILE NAME :	

ABBOTTS RUN APARTMENTS  
 511 COBBLESTONE DRIVE  
 WILMINGTON, NC

CLUBHOUSE REPLACEMENT  
 DEMOLITION PLAN

SCALE: 1"= 50'  
 TREE REMOVAL WITH SITE PLAN OVERLAY



TOPO DATA FROM FIELD SURVEY BY  
ESP ASSOCIATES

**PROPOSED SITE PLAN**  
SCALE:

**GENERAL UTILITY NOTE:**  
THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS ARE BASED ON RECORDS FROM THE UTILITY COMPANY AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY LOCATION OF ALL EXISTING UTILITIES. ANY CONFLICTS SHALL BE BROUGHT TO THE OWNERS AND ENGINEERS ATTENTION IMMEDIATELY.

**PRELIMINARY DESIGN  
NOT RELEASED FOR  
CONSTRUCTION**

**ISSUED FOR AGENCY  
REVIEW ONLY**

**Approved Construction Plan**

Name	Date
Planning	_____
Traffic	_____
Fire	_____

**WILMINGTON**  
NORTH CAROLINA  
Public Services Engineering Division  
APPROVED DRAINAGE PLAN

Date: \_\_\_\_\_ Permit # \_\_\_\_\_  
Signed: \_\_\_\_\_

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

**SITE DATA**

OWNER: WILMINGTON AR HOUSING LLC  
772 EAST MARKET STREET  
SUITE 102  
LEESBURG, VA 20176

PIN: R04911-001-022-000

PARCEL SIZE: 14.71 AC PROJECT (640,768 SF)

DEED: BK 5953 PG1832

ZONING: MF-M

CLASS: 12-3 + FAMILY RESIDENTIAL

CAMA LAND USE: URBAN

**SETBACKS**

BUILDING HEIGHT = 35'  
FRONT SETBACK: 35'  
REAR SETBACK: 25'  
SIDE SETBACK: 20'  
CORNER SIDE: 30'

**PARKING DATA**

RATIO	REQUIRED
1 BR: 1.5 SPACES/UNT =	180 SPACES
2-3 BR: 2.25 SPACES/UNIT =	324 SPACES
TOTAL	504 SPACES

TOTAL SITE SPACES: 506 SPACES  
REQUIRE ADA SPACES @ 2% = 10 SPACES  
PROVIDED ADA SPACES = 27 SPACES

EXISTING PARKING COUNT OBTAINED BY FIELD VERIFICATION

**FOUNDATION PLANTINGS (20' BLDG HT)**

**EAST**  
REQUIRED: 35.8 LF x 20'HT x 0.12 = 86 SF  
PROVIDED: 119 SF

**WEST**  
REQUIRED: 38.7 LF x 20'HT x 0.12 = 93 SF  
PROVIDED: 119 SF

**BUILDING DATA**

EXISTING BUILDING COVERAGE: 80,254 SF  
NUMBER OF BUILDING  
9 APARTMENT BLDGS + CLUBHOUSE  
NUMBER OF UNITS  
1 BR: 120 UNITS  
2-3 BR: 144 UNITS

EX. SITE BUILDING COVERAGE: 12.5%

**CLUBHOUSE EXPANSION**

EXISTING FOOTPRINT: 1,598 SF  
PROPOSE FOOTPRINT: 3,638 SF (2,040 DIF)  
NEW BLDG COVERAGE: 82,294 SF  
REVISED SITE BUILDING COVERAGE: 13.0%

**STORMWATER DATA**

NCDEQ PERMIT #SW8 990 720  
PERMITTED BUA = 290,532 SF\*\*  
EXISTING BUA = 290,532 SF

**CLUBHOUSE EXPANSION**

EXISTING BLDG AREA: 1,598 SF  
EXISTING SIDEWALKS: 1,342 SF  
TOTAL 2,940 SF

PROPOSED BLDG AREA: 4,121 SF  
PROPOSED SIDEWALKS: 1,811 SF  
TOTAL 5,932 SF

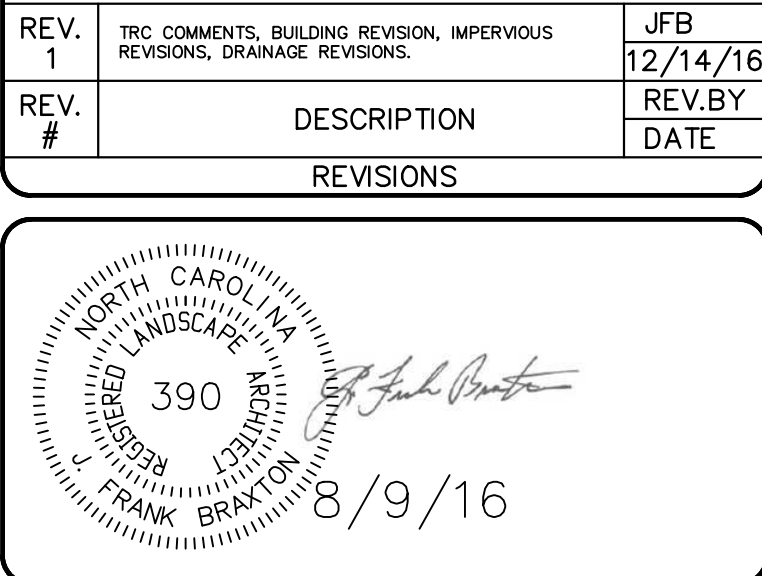
OVERAGE OF BUA: 2,992 SF\*\*

\*\* THE PROPOSED BUA WILL EXCEED THE PERMIT ALLOWANCE AND COMPLIANCE TO THE EXISTING NCDEQ STORMWATER PERMIT THE EXISTING PERMIT IS BEING REVISED AND REISSUED AS A NEW PERMIT WITH AN ADDITIONAL 15,000 SF OF PERMITTED BUA



**LEGEND:**

REV. #	TRC COMMENTS, BUILDING REVISION, IMPERVIOUS REVISIONS, DRAINAGE REVISIONS	JFB
1		12/14/16
REV. #	DESCRIPTION	REV. BY DATE
REVISIONS		



**WILMINGTON AR HOUSING LLC**  
772 EAST MARKET STREET  
SUITE 102  
LEESBURY, VA 28405



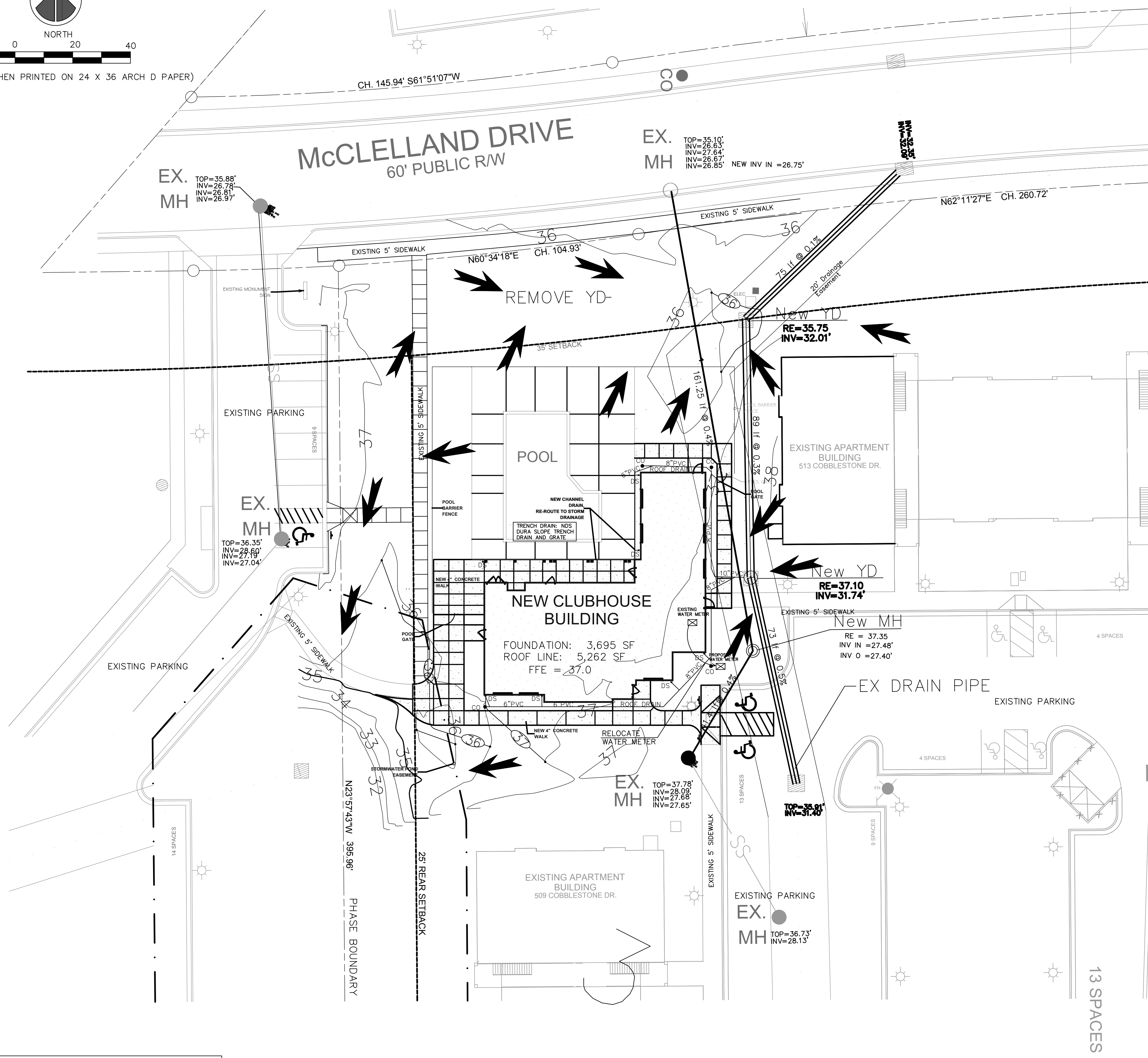
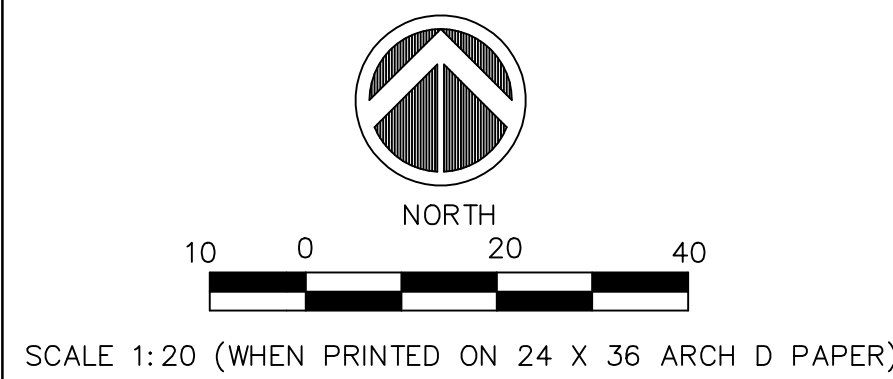
DRAWN : R. LEWIS	PROJECT : 984-00
DESIGN : F. BRAXTON	NUMBER : 1,342 SF
CHECK : J. PETROFF	SCALE : 1"=20'
APPROVED : F. BRAXTON	DATE : 08 JULY 2016
FILE NAME :	

**ABBOTTS RUN APARTMENTS**  
511 COBBLESTONE DRIVE  
WILMINGTON, NC

**CLUBHOUSE REPLACEMENT  
SITE PLAN**

JOB NUMBER SHEET NUMBER  
SP.04





TOPO DATA FROM FIELD SURVEY BY  
ESP ASSOCIATES

**PROPOSED SITE PLAN**  
SCALE:

**GENERAL UTILITY NOTE:**  
THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS ARE BASED ON RECORDS FROM THE UTILITY COMPANY AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY LOCATION OF ALL EXISTING UTILITIES. ANY CONFLICTS SHALL BE BROUGHT TO THE OWNERS AND ENGINEERS ATTENTION IMMEDIATELY.

PRELIMINARY DESIGN  
NOT RELEASED FOR  
CONSTRUCTION

ISSUED FOR AGENCY  
REVIEW ONLY

City of WILMINGTON  
Approved Construction Plan

Name	Date
Planning	
Traffic	
Fire	

City of WILMINGTON  
Public Services Engineering Division  
APPROVED DRAINAGE PLAN

Date: \_\_\_\_\_ Permit # \_\_\_\_\_  
Signed: \_\_\_\_\_

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

**SITE DATA**

OWNER: WILMINGTON AR HOUSING LLC  
772 EAST MARKET STREET  
SUITE 102  
LEESBURG, VA 20176

PIN: R04911-001-022-000

PARCEL SIZE: 14.71 AC PROJECT (640,768 SF)

DEED: BK 5953 PG1832

ZONING: MF-M

CLASS: 12-3 + FAMILY RESIDENTIAL

CAMA LAND USE: URBAN

**SETBACKS**

BUILDING HEIGHT = 35'  
FRONT SETBACK: 35'  
REAR SETBACK: 25'  
SIDE SETBACK: 20'  
CORNER SIDE: 30'

**BUILDING DATA**

EXISTING BUILDING COVERAGE: 80,254 SF

NUMBER OF BUILDING  
9 APARTMENT BLDGS + CLUBHOUSE

NUMBER OF UNITS  
1 BR: 120 UNITS  
2-3 BR: 144 UNITS

EX. SITE BUILDING COVERAGE: 12.5%

**CLUBHOUSE EXPANSION**

EXISTING FOOTPRINT: 1,598 SF

PROPOSE FOOTPRINT: 3,638 SF (2,040 DIF)

NEW BLDG COVERAGE: 82,294 SF

REVISED SITE BUILDING COVERAGE: 13.0%

**STORMWATER DATA**

NCDEQ PERMIT #SW8 990 720

PERMITTED BUA = 290,532 SF\*\*

EXISTING BUA = 290,532 SF

CLUBHOUSE EXPANSION

EXISTING BLDG AREA: 1,598 SF

EXISTING SIDEWALKS: 1,342 SF

TOTAL 2,940 SF

PROPOSED BLDG AREA: 4,121 SF

PROPOSED SIDEWALKS: 1,811 SF

TOTAL 5,932 SF

OVERAGE OF BUA: 2,992 SF\*\*

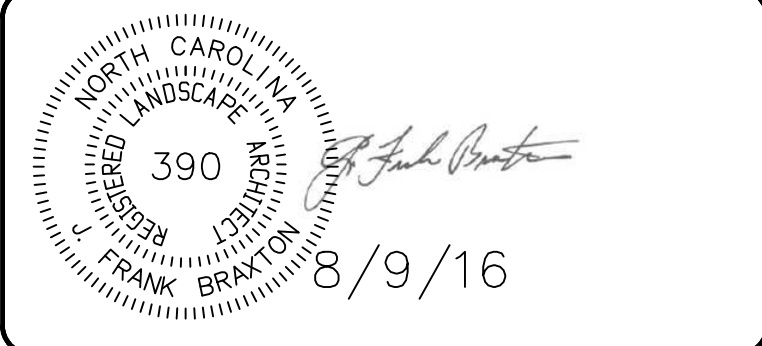
\*\* THE PROPOSED BUA WILL EXCEED THE PERMIT ALLOWANCE AND COMPLIANCE TO THE EXISTING NCDEQ STORMWATER PERMIT THE EXISTING PERMIT IS BEING REVISED AND REISSUED AS A NEW PERMIT WITH AN ADDITIONAL 15,000 SF OF PERMITTED BUA



**LEGEND:**



REV. #	DESCRIPTION	REV. BY	DATE
1	TBC COMMENTS, BUILDING REVISION, IMPERVIOUS REVISIONS, DRAINAGE REVISIONS.	JFB	12/14/16



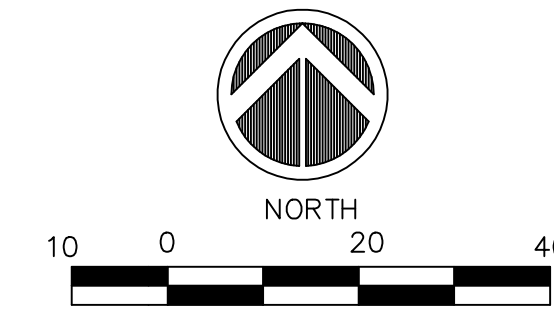
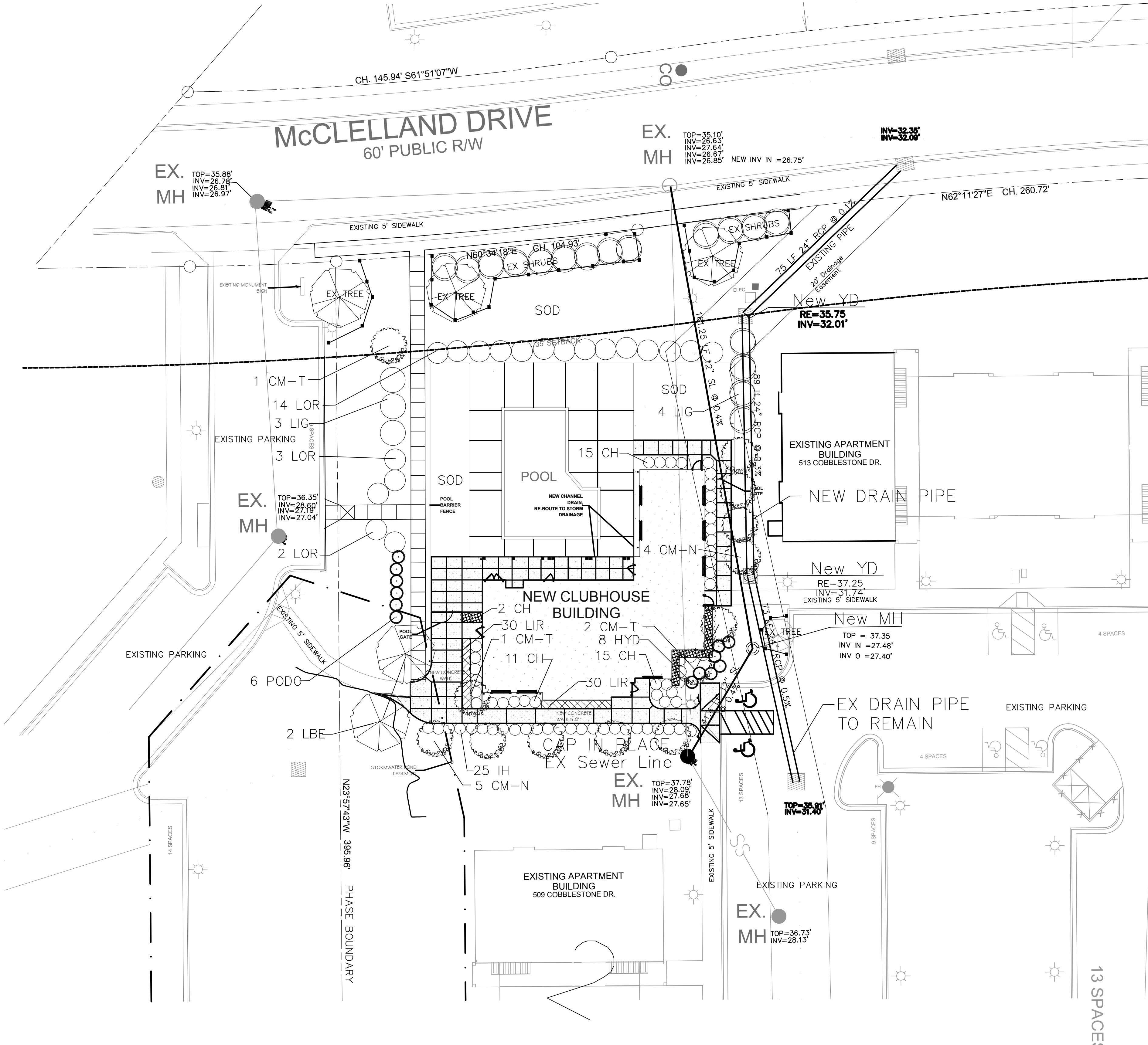
WILMINGTON AR HOUSING LLC  
772 EAST MARKET STREET  
SUITE 102  
LEESBURY, VA 28405



DRAWN : R. LEWIS	PROJECT : 984-00
DESIGN : F. BRAXTON	NUMBER : 1
CHECK : J. PETROFF	SCALE : 1"=20'
APPROVED : F. BRAXTON	DATE : 08 JULY 2016
FILE NAME :	

ABBOTTS RUN APARTMENTS  
511 COBBLESTONE DRIVE  
WILMINGTON, NC

CLUBHOUSE REPLACEMENT  
DRAINAGE PLAN



SCALE 1:20 (WHEN PRINTED ON 24 X 36 ARCH D PAPER)

**SITE DATA**

OWNER: WILMINGTON AR HOUSING LLC  
 772 EAST MARKET STREET  
 SUITE 102  
 LEESBURG, VA 20176  
 PIN: R04911-001-022-000  
 PARCEL SIZE: 14.71 AC PROJECT (640,768 SF)  
 DEED: BK 5953 PG1832  
 ZONING: MF-M  
 CLASS: 12-3 + FAMILY RESIDENTIAL  
 CAMA LAND USE: URBAN

**LEGEND:**

REV. #	DESCRIPTION	REV. BY	DATE
1	TIC COMMENTS, BUILDING REVISION, IMPERVIOUS REVISIONS, DRAINAGE REVISIONS.	JFB	12/14/16

REV. #	DESCRIPTION	REV. BY	DATE
1	TIC COMMENTS, BUILDING REVISION, IMPERVIOUS REVISIONS, DRAINAGE REVISIONS.	JFB	12/14/16



WILMINGTON AR HOUSING LLC  
 772 EAST MARKET STREET  
 SUITE 102  
 LEESBURG, VA 28405



DRAWN : R. LEWIS PROJECT : 984-00  
 DESIGN : F. BRAXTON NUMBER :  
 CHECK : J. PETROFF SCALE : 1"=20'  
 APPROVED : F. BRAXTON DATE : 08 JULY 2016  
 FILE NAME :

ABBOTTS RUN APARTMENTS  
 511 COBBLESTONE DRIVE  
 WILMINGTON, NC

CLUBHOUSE REPLACEMENT  
 LANDSCAPE PLAN

JOB NUMBER SHEET NUMBER  
 SP.07

TOPO DATA FROM FIELD SURVEY BY  
 ESP ASSOCIATES

**GENERAL UTILITY NOTE:**  
 THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS ARE BASED ON RECORDS FROM THE UTILITY COMPANY AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY LOCATION OF ALL EXISTING UTILITIES. ANY CONFLICTS SHALL BE BROUGHT TO THE OWNERS AND ENGINEERS ATTENTION IMMEDIATELY.

PRELIMINARY DESIGN  
 NOT RELEASED FOR  
 CONSTRUCTION

ISSUED FOR AGENCY  
 REVIEW ONLY

**PROPOSED CLUBHOUSE EXPANSION**

WILMINGTON NORTH CAROLINA  
 Approved Construction Plan  
 Name \_\_\_\_\_ Date \_\_\_\_\_  
 Planning \_\_\_\_\_  
 Traffic \_\_\_\_\_  
 Fire \_\_\_\_\_

WILMINGTON NORTH CAROLINA  
 Public Services Engineering Division  
 APPROVED DRAINAGE PLAN  
 Date: \_\_\_\_\_ Permit # \_\_\_\_\_  
 Signed: \_\_\_\_\_

**PLANT LIST**

BOTANICAL NAME	COMMON NAME	CALIPER	HEIGHT	REMARKS	QUANTITY	SYMBOLS
<b>TREES</b>						
ULMUS PARVIFOLIA	LACEBARK ELM	2.5		B&B	2	LBE
LAGERSTROEMIA "MATCHES"	GRAPE MYRTLE "MATCHES"		8-10'		3	CM-N
LAGERSTROEMIA "TUSKEGEE"	GRAPE MYRTLE "TUSKEGEE"		8-10'		4	CM-T
<b>SHRUBS</b>						
RAPIHOLEPIS UMBRELLATA	INDIAN HAWTHORN "BLUE MUFFIN"				3 GAL	25 IH
ILEX CORNUTA "CARISSA"	CARISSA HOLLY				3 GAL	43 CH
LIGUSTRUM JAPONICUM	JAPANESE LIGUSTRUM		6-8"		7	LIG
PODOCARPUS MACROPHYLLUS MAKI	SHRUBBY YEW PODOCARPUS				7 GAL	6 PODO
HYDRANGEA PANICULATA "LIMELIGHT"	LIMELIGHT HARDY HYDRANGEA				3 GAL	8 HYD
LOROPETALUM CHINENSE "RUBY"	RUBY RED LOROPETALUM				7 GAL	19 LOR
<b>GROUND COVER</b>						
LIRIOPE MUSCARI	BIG BLUE LIRIOPE		18" OC		1 QT.	60 LIR
SOD	EMERALD GREEN ZOYSIA					

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



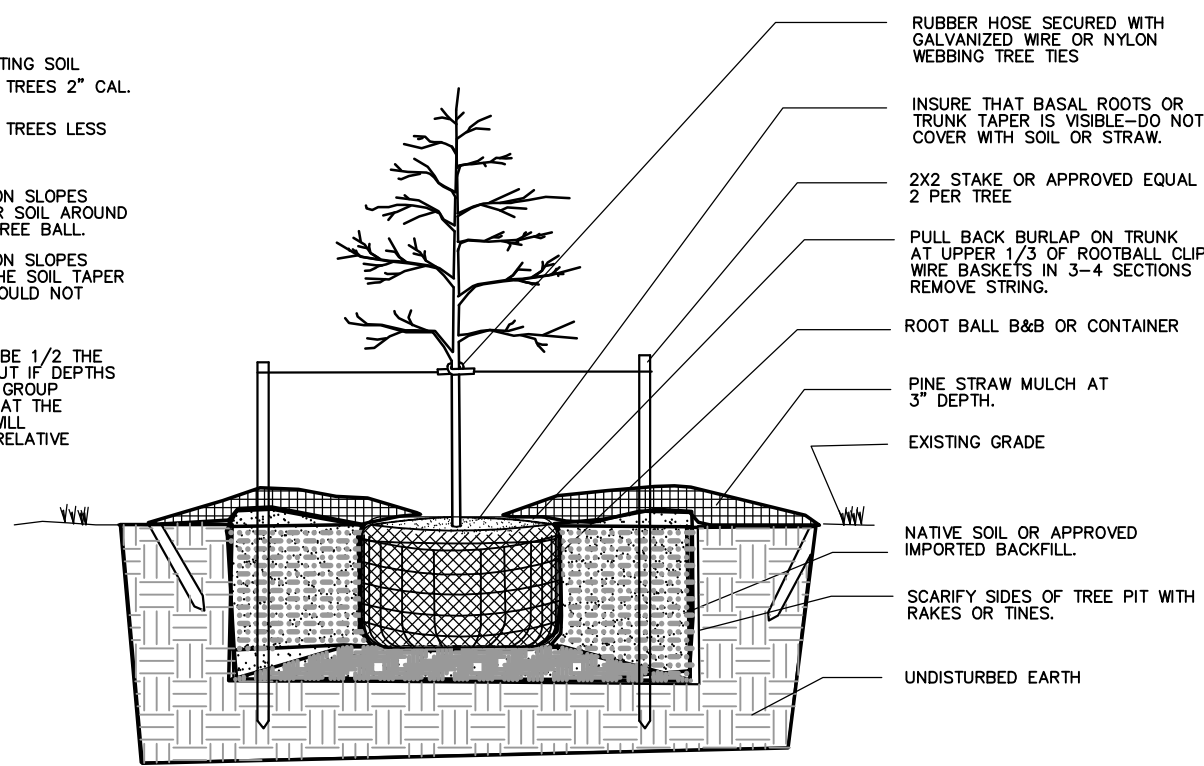
**NOTES**

SCARPING OF EXISTING SOIL  
3" RADII MIN. FOR TREES 2" CAL.  
OR GREATER  
1" RADII MIN. FOR TREES LESS  
THAN 2" CALIPER

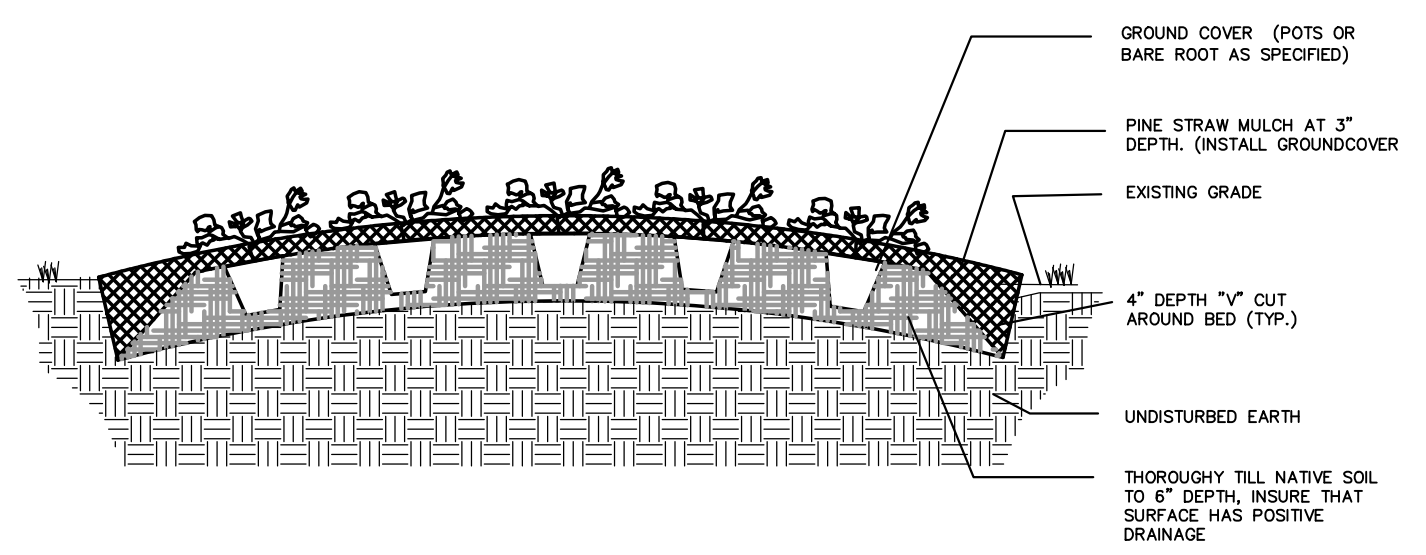
FOR TREES PLANTED ON SLOPES  
LESS THAN 3:1, TAPER SOIL AROUND  
TREE 1.5X WIDTH OF TREE BALL

FOR TREES PLANTED ON SLOPES  
GREATER THAN 3:1, THE SOIL TAPER  
AROUND THE TREE SHOULD NOT  
EXCEED 2:1.

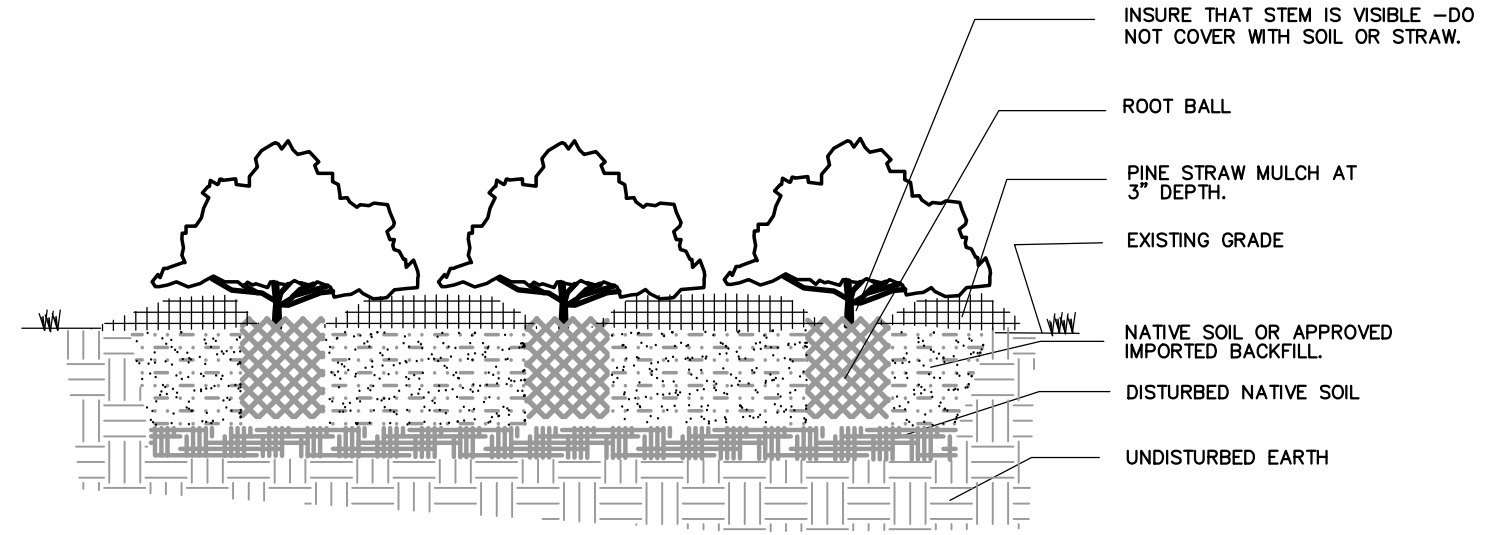
BALL DEPTH SHOULD BE 1/2 THE  
BALL ABOVE GRADE, BUT IF ROOTS  
VARY ALL TREES IN A GROUP  
SHOULD BE SET SO THAT THE  
BASE OF THE TRUNK WILL  
APPEAR TO BE SAME RELATIVE  
ELEVATION.



**PLANTING DETAIL NOT TO SCALE**  
SMALL TREE  
1" - 2.5" CALIPER



**PLANTING DETAIL NOT TO SCALE**  
GROUND COVER

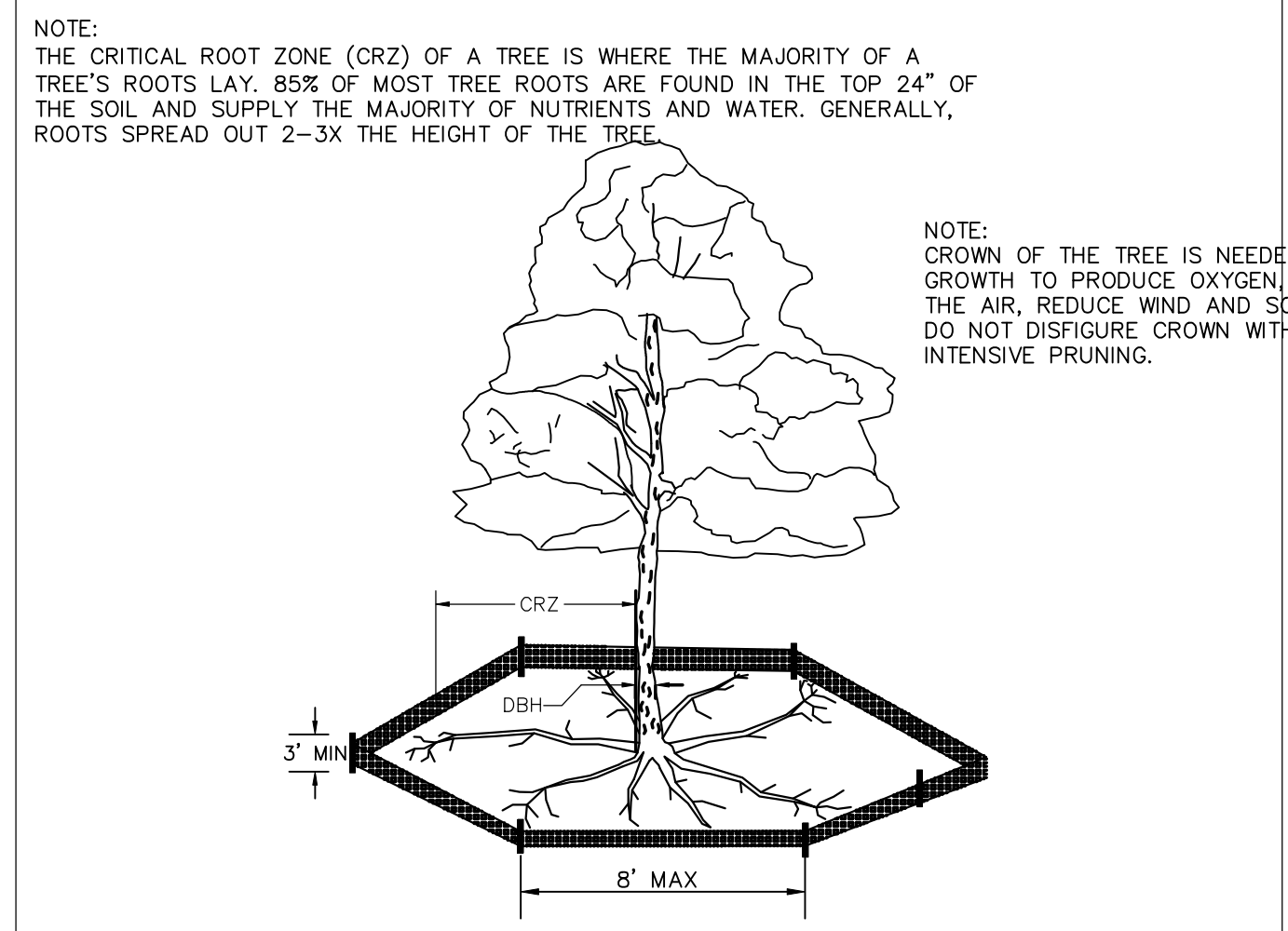


**PLANTING DETAIL NOT TO SCALE**  
SHRUB

**LANDSCAPE NOTES**

1. ALL LANDSCAPE MATERIAL MUST BE INSTALLED PRIOR TO FINAL BUILDING INSPECTION
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOCATION AND/OR RELOCATION OF EXISTING UTILITIES IN COORDINATION WITH THE APPROPRIATE UTILITY AGENCY OR COMPANY.
3. CONTRACTOR SHALL NOT SUBSTITUTE FOR ANY OF THE PLANT MATERIAL THAT IS SPECIFIED WITHOUT PRIOR APPROVAL OF THE LANDSCAPE ARCHITECT.
4. VERIFICATION OF TOTAL QUANTITIES AS SHOWN IN THE PLANT LIST SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
5. MULCH UNDER ALL PROPOSED TREES AND SHRUBS WITH PINE NEEDLES AT A 3"-4" DEPTH OR APPROVED EQUAL.
6. PLANT SIZES INDICATED SPECIFY MINIMUM ALLOWABLE SIZES AT PLANTING. WHERE CONTAINER AND HT. SIZES ARE INDICATED FOR A SINGLE SPECIES, BOTH SIZE REQUIREMENTS MUST BE MET.
7. HERE SHALL BE AT LEAST A 3 FT. SEPARATION BETWEEN LANDSCAPED AREAS AND PARKING AREAS TO ALLOW VEHICLE OVERHANG.
8. ALL PLANTINGS USED TO SCREEN THE DRIVES AND PARKING AREAS FROM ADJOINING ROADWAYS WILL NEED TO BE A MINIMUM OF 24" HIGH AT TIME OF PLANTING.
9. ALL OTHER AREAS NOT BEING MULCHED TO BE SEEDED PER SEEDING SCHEDULE INCLUDED AS PART OF THE S&E PLANS.
10. THE OWNERS OF THE PROPERTY AND THEIR AGENTS, HEIRS, OR ASSIGNS SHALL BE RESPONSIBLE FOR THE INSTALLATION, PRESERVATION AND MAINTENANCE OF ALL PLANTING AND PHYSICAL FEATURES SHOWN ON THIS PLAN. THE OWNERS SHALL BE RESPONSIBLE FOR ANNUAL MAINTENANCE OF THE VEGETATION TO INCLUDE BUT NOT BE LIMITED TO:
  - A. FERTILIZATION  
TREES SHRUBS AND GRASSSED AREAS BROADCAST A SLOW RELEASE FERTILIZER OVER THE MULCHED BEDS AT THE RECOMMENDED RATES AS SHOWN ON THE BAGS, ONCE MID-FEBRUARY AND ONCE MID-SEPTEMBER. THOROUGH WATERING IS REQUIRED UPON COMPLETION.
  - B. PRUNING WITHIN LIMITS  
PRUNING WHEN NECESSARY, WILL BE DONE TO MAINTAIN THEIR NORMAL GROWTH PATTERN AND TO REMOVE DEAD OR DISEASED PLANT MATERIAL. THERE SHALL BE NO TOPPING OF TREES.
  - C. PEST CONTROL (OPTIONAL)  
WEED CONTROL TO BE PROVIDED EARLY FEBRUARY, APRIL, JUNE, AUGUST AND OCTOBER IN THE SHRUB/TREE BEDS AND IN THE LAWN AREAS. INSECT DAMAGE SHALL BE TREATED WHEN NECESSARY TO PREVENT DAMAGE TO VEGETATION.
  - D. MULCHING  
ALL AREAS AROUND THE BUILDING FOUNDATION AND SHRUB/TREE BEDS SHALL BE RE-MULCHED SO THAT THEY CONTAIN A MIN. DEPTH OF TWO INCHES AND A MAXIMUM DEPTH OF THREE INCHES. MULCH USED SHALL EQUAL WHICH WAS SUPPLIED DURING THE INSTALLATION OF THE PLANTS.
  - E. MOWING  
MOWING SHALL BE DONE AS NECESSARY TO KEEP GRASS AT THE APPROPRIATE HEIGHT TO INSURE A HEALTHY GROWTH PATTERN.
  - F. PROTECTION OF ROOT ZONES  
TREE/SHRUB ROOT ZONES SHOULD BE PROTECTED FROM FUTURE CONSTRUCTION AND EQUIPMENT AS MUCH AS POSSIBLE TO AVOID DAMAGE OR COMPACTION TO THE ROOT AREAS.
  - G. WATERING SCHEDULE FOR IRRIGATION SYSTEM  
MAINTENANCE SHALL INCLUDE A THOROUGH INITIAL WATERING WITH WEEKLY WATERINGS THEREAFTER FOR THE FIRST 30 DAYS. WATERINGS THEREAFTER BE ON AN AS NEEDED SCHEDULE PER LOCAL CONDITIONS.
  - H. STAKE AT WIRE REMOVAL  
AT THE END OF THE FIRST YEAR ALL PLANT STAKING AND GUYING SYSTEMS SHALL BE REMOVED.
  - I. PROTECTED TREE REGULATION  
PRIOR TO ANY CLEARING, GRADING OR CONSTRUCTION ACTIVITY, TREE PROTECTION FENCING WILL BE INSTALLED AROUND PROTECTED TREES OR GROVES OF TREES AND NO CONSTRUCTION WORKERS, TOOLS, MATERIALS OR VEHICLES ARE PERMITTED WITHIN THE TREE PROTECTION FENCING.

**TREE PROTECTION DETAIL NOT TO SCALE**



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

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

**WILMINGTON**  
NORTH CAROLINA  
Public Services Engineering Division  
APPROVED DRAINAGE PLAN

Date: \_\_\_\_\_ Permit # \_\_\_\_\_  
Signed: \_\_\_\_\_

**WILMINGTON**  
NORTH CAROLINA  
Approved Construction Plan

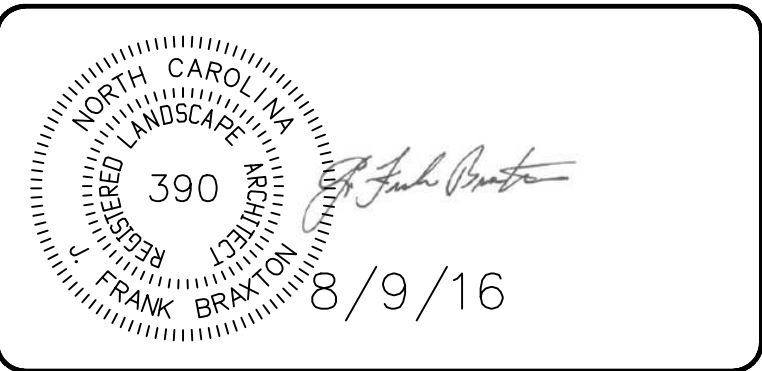
\_\_\_\_ Name \_\_\_\_\_ Date \_\_\_\_\_

Planning \_\_\_\_\_  
Traffic \_\_\_\_\_  
Fire \_\_\_\_\_

**LEGEND:**



REV. #	TRC COMMENTS, BUILDING REVISION, IMPERVIOUS REVISIONS, DRAINAGE REVISIONS.	JFB REV. BY DATE
1		12/14/16
#	DESCRIPTION	DATE
	REVISIONS	



**WILMINGTON AR HOUSING LLC**  
772 EAST MARKET STREET  
SUITE 102  
LEESBURY, VA 28405

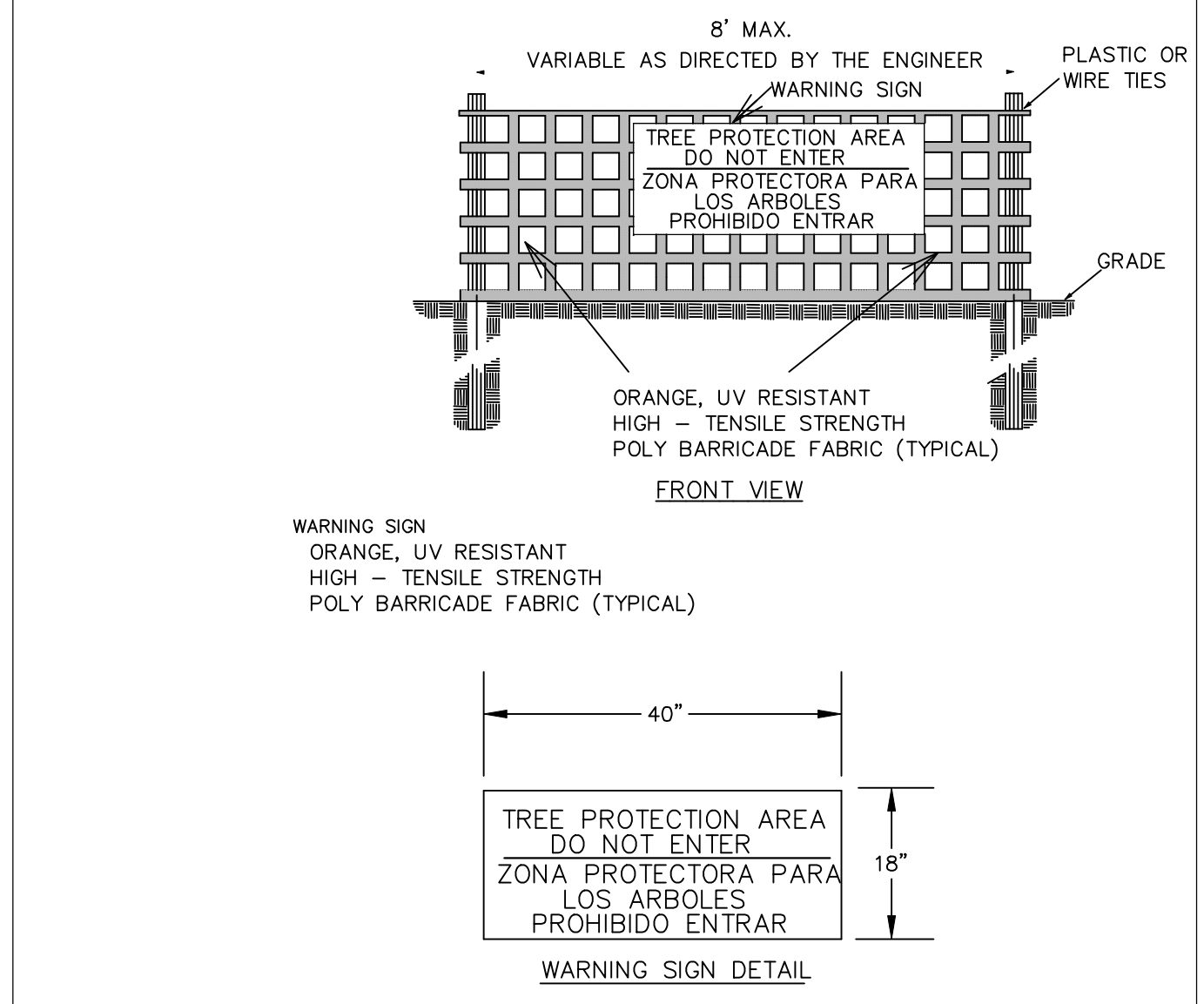


DRAWN : R. LEWIS	PROJECT : 984-00
DESIGN : F. BRAXTON	NUMBER :
CHECK : J. PETROFF	SCALE : 1"=20'
APPROVED : F. BRAXTON	DATE : 08 JULY 2016
FILE NAME :	

**ABBOTTS RUN APARTMENTS**  
511 COBBLESTONE DRIVE  
WILMINGTON, NC

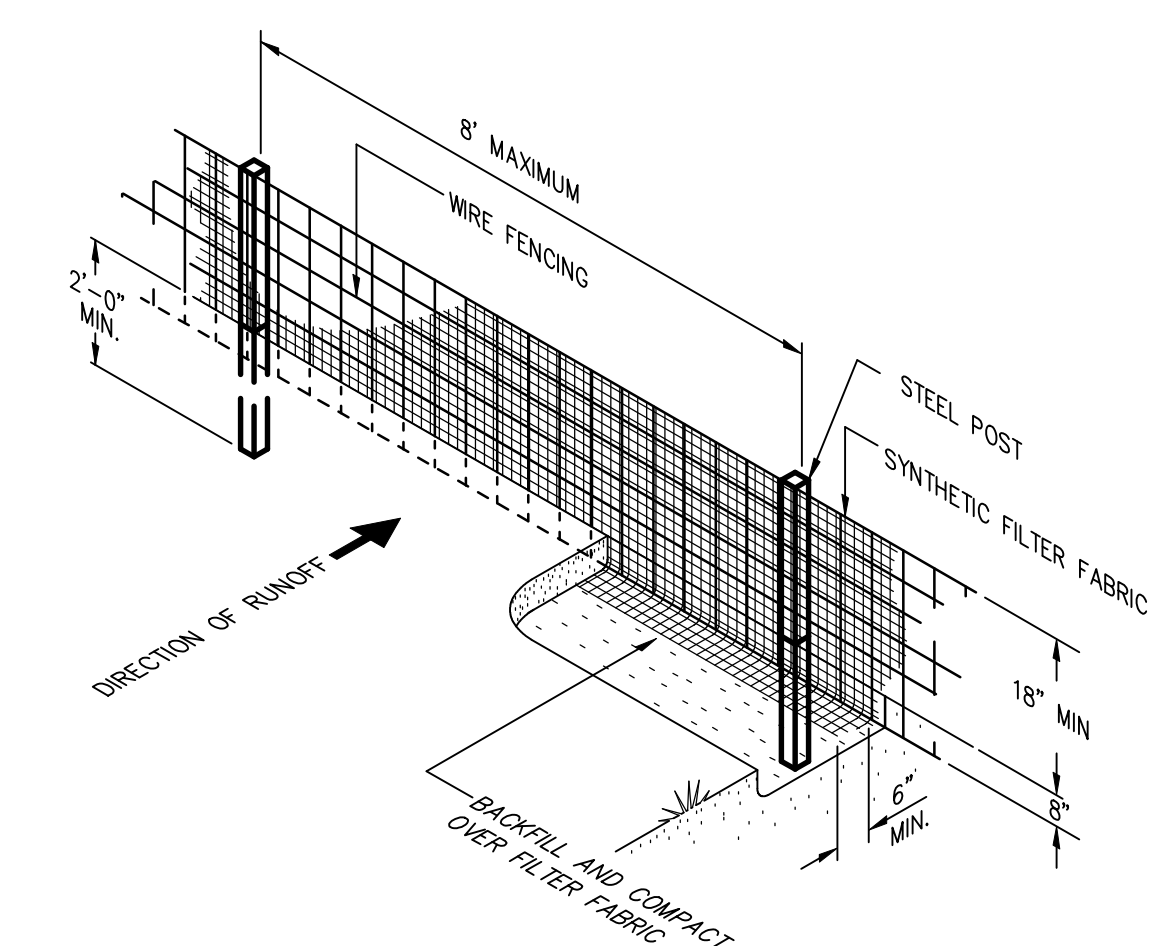
**CLUBHOUSE REPLACEMENT  
DETAILS**

JOB NUMBER	SHEET NUMBER
	SP.08



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

**SILT FENCE DETAIL NOT TO SCALE**



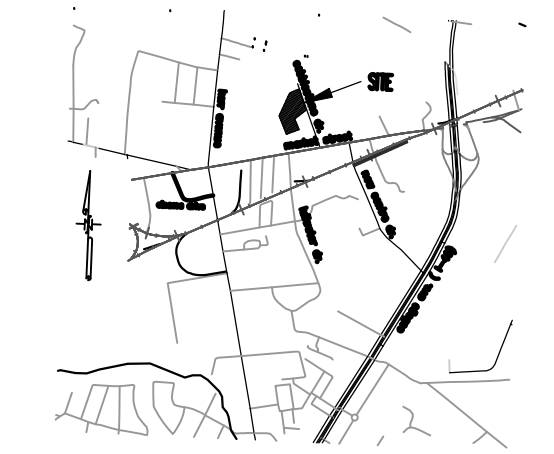
- SEDIMENT FENCE CONSTRUCTION SPECIFICATIONS:**
- (1) SILT FENCE IS TO BE TRENCHED IN WITH TRENCHING MACHINE IN ORDER TO HAVE THE MINIMUM AREA OF DISTURBANCE (NON-EVASIVE) UPON INSTALLATION.
  - (2) HEIGHT OF SEDIMENT FENCE IS NOT TO EXCEED 18" ABOVE THE GROUND SURFACE
  - (3) FILTER FABRIC TO BE CONSTRUCTED FROM CONTINUOUS ROLL CUT TO LENGTH TO AVOID JOINTS. IF JOINTS ARE NECESSARY, FILTER CLOTH IS TO BE SECURELY FASTENED TO SUPPORT POST WITH OVERLAP TO THE NEXT POST.
  - (4) FILTER FABRIC TO BE SUPPORTED BY WIRE MESH FASTENED SECURELY TO THE UPSLOPE SIDE OF THE POSTS USING HEAVY DUTY STAPLES AT LEAST 1" LONG OR TIE WIRES. EXTEND WIRE MESH SUPPORT TO THE BOTTOM OF THE TRENCH.
  - (5) A MAXIMUM OF 8' STAKE SPACING IS ALLOWED WHEN WIRE MESH SUPPORT FENCE IS USED. SUPPORT POST SHOULD BE DRIVEN SECURELY INTO THE GROUND A DISTANCE OF AT LEAST 18".
  - (6) EXTRA STRENGTH FILTER FABRIC WITH 6' POST SPACES DOES NOT REQUIRE WIRE MESH SUPPORT FENCE. STAPLE OR WIRE THE FILTER FABRIC DIRECTLY TO POSTS.
  - (7) EXCAVATE A TRENCH APPROXIMATELY 4" WIDE AND 8" DEEP ALONG THE PROPOSED LINE OF POSTS AND UPSLOPE FROM THE BARRIER.
  - (8) BACKFILL TRENCH WITH COMPACT SOIL OR GRAVEL PLACED OVER THE FILTER FABRIC.
  - (9) DO NOT ATTACH FILTER FABRIC TO EXISTING TREES.
- SEDIMENT FENCE MAINTENANCE:**
- (1) INSPECT SEDIMENT FENCES AT LEAST ONCE A WEEK AND AFTER EACH RAINFALL. MAKE ANY REQUIRED REPAIRS IMMEDIATELY.
  - (2) SHOULD THE FABRIC OF A SEDIMENT FENCE COLLAPSE, TEAR, DECOMPOSE OR BECOME INEFFECTIVE, REPLACE IT PROMPTLY. REPLACE BURLAP EVERY 60 DAYS.
  - (3) REMOVE SEDIMENT DEPOSITS AS NECESSARY TO PROVIDE ADEQUATE STORAGE VOLUME FOR THE NEXT RAIN AND TO REDUCE PRESSURE ON THE FENCE. TAKE CARE TO AVOID UNDERMINING THE FENCE DURING CLEANOUT.
  - (4) REMOVE ALL FENCING MATERIALS AND UNSTABLE SEDIMENT DEPOSITS AND BRING THE AREA TO GRADE AND STABILIZE IT AFTER THE CONTRIBUTING DRAINAGE AREA HAS BEEN PROPERLY STABILIZED.

PRELIMINARY DESIGN  
NOT RELEASED FOR  
CONSTRUCTION

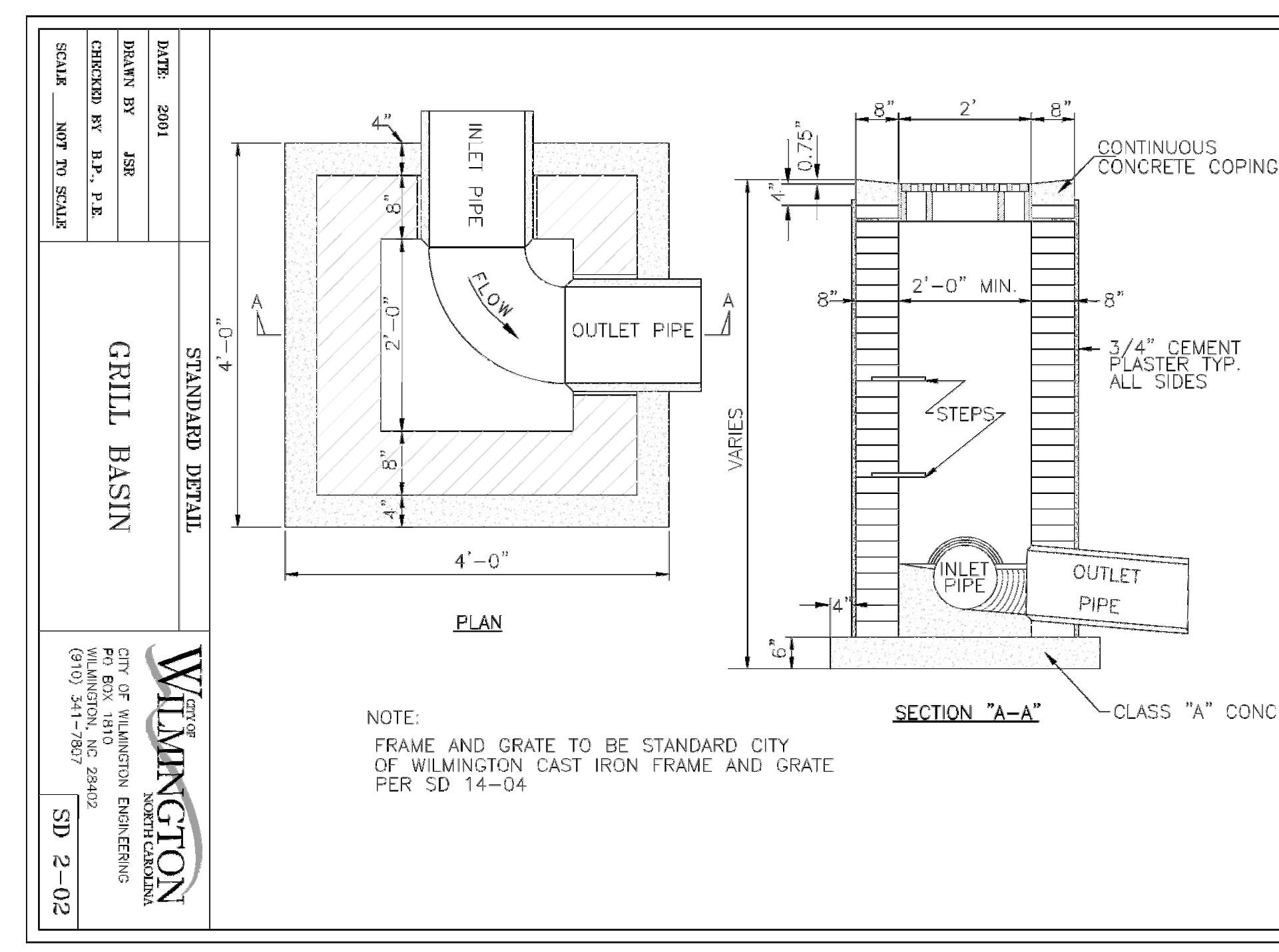
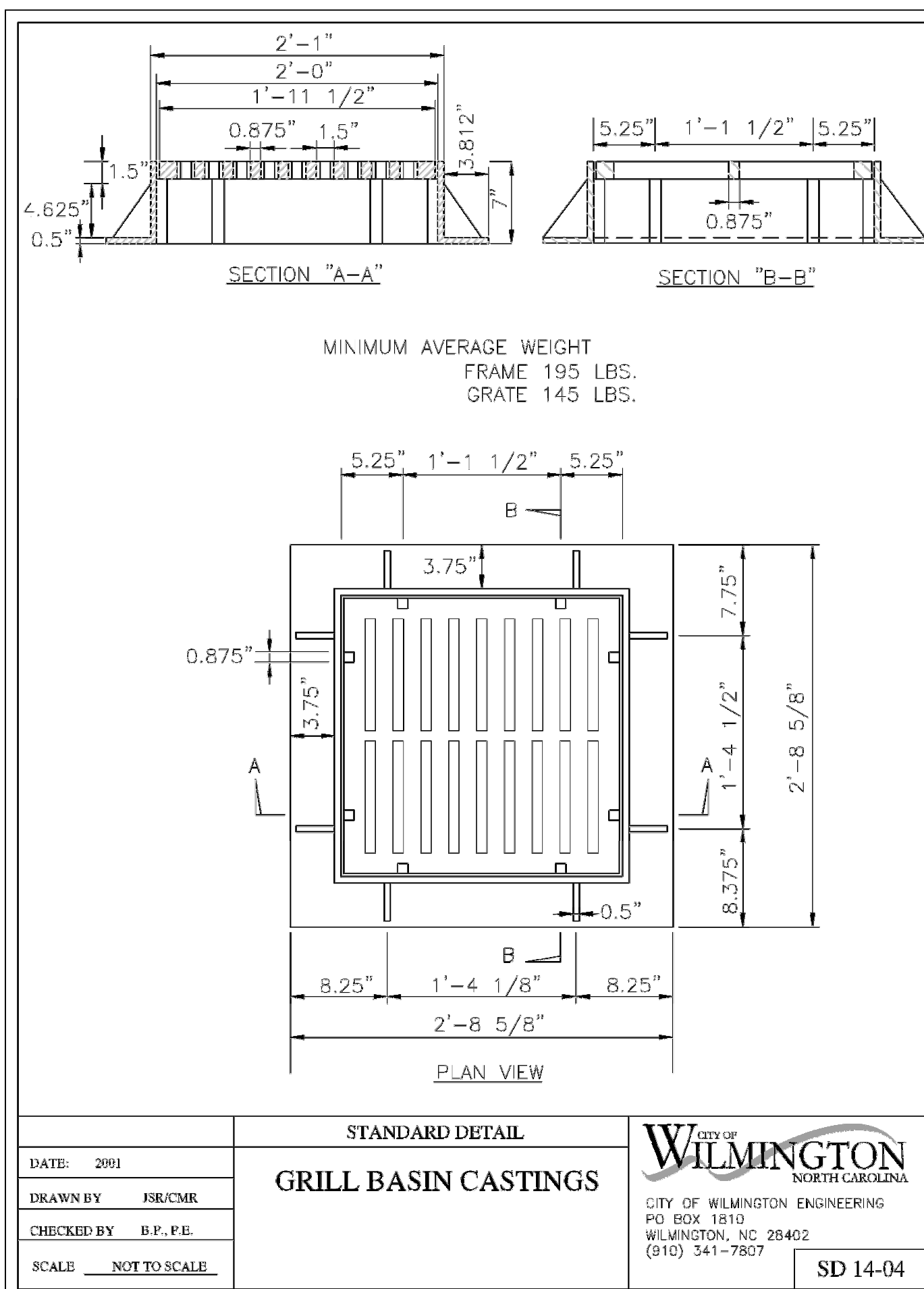
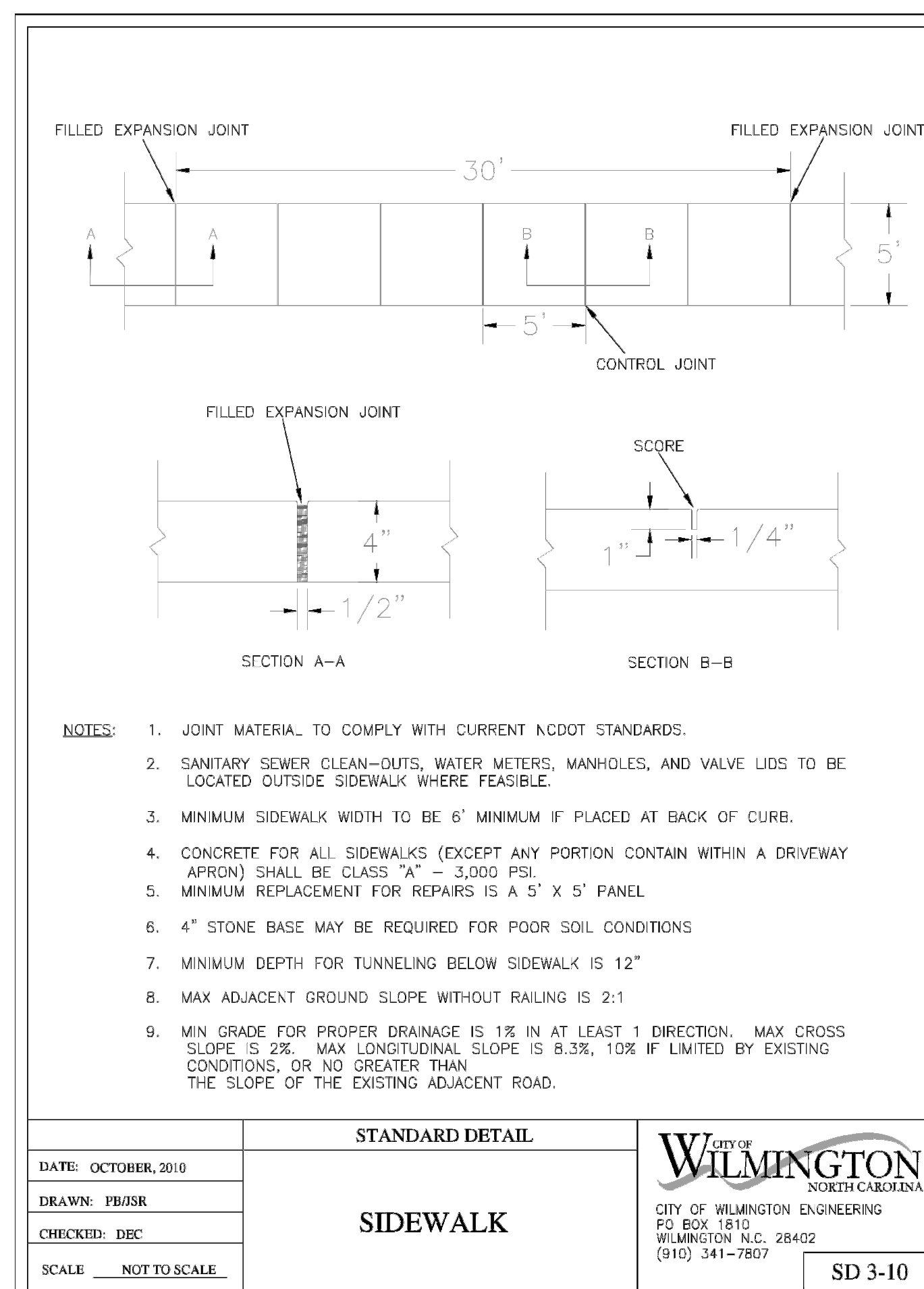
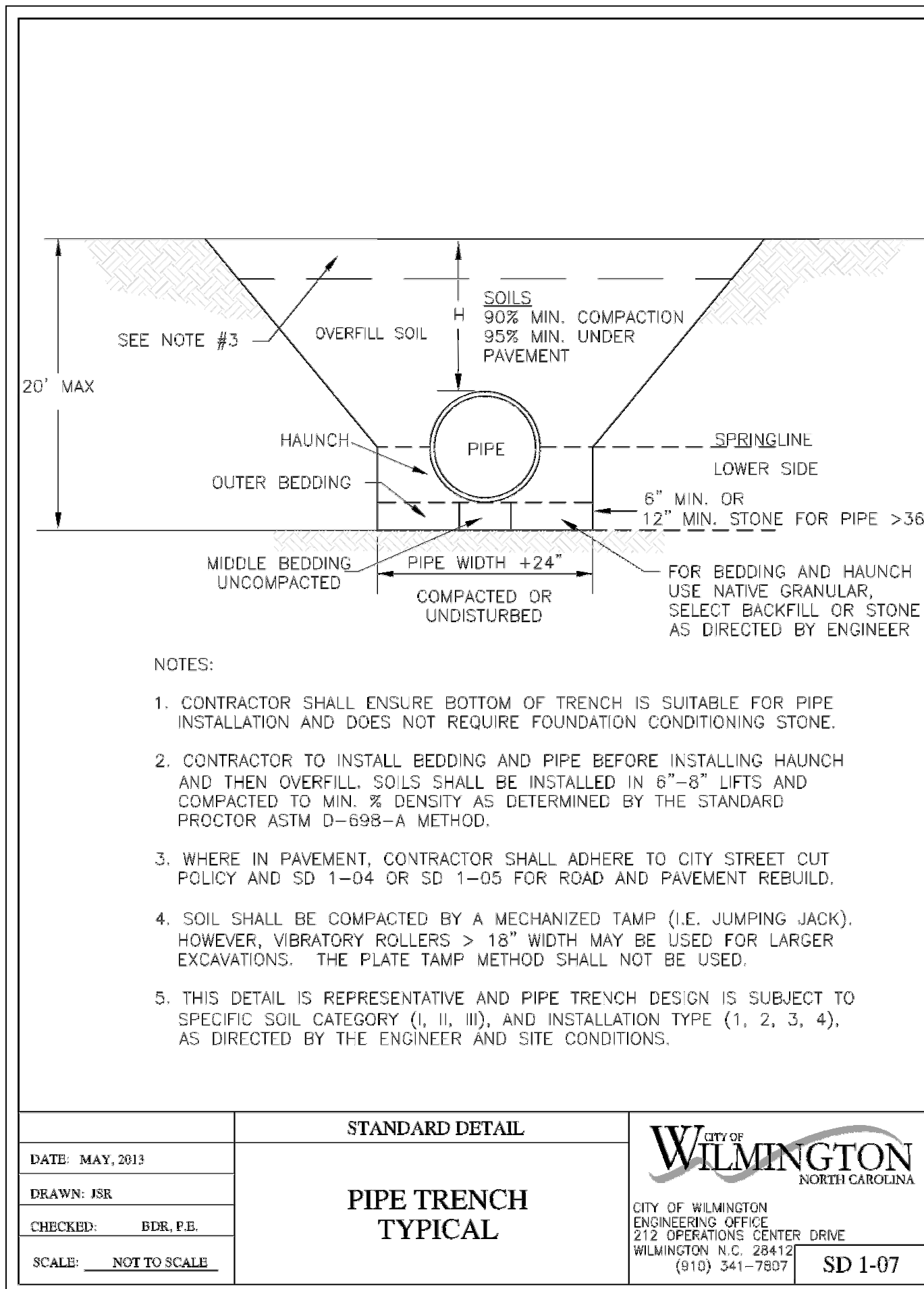
ISSUED FOR AGENCY  
REVIEW ONLY

PRELIMINARY DESIGN  
NOT RELEASED FOR  
CONSTRUCTION

ISSUED FOR AGENCY  
REVIEW ONLY



LEGEND:



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

**WILMINGTON**  
NORTH CAROLINA  
Public Services Engineering Division  
APPROVED DRAINAGE PLAN

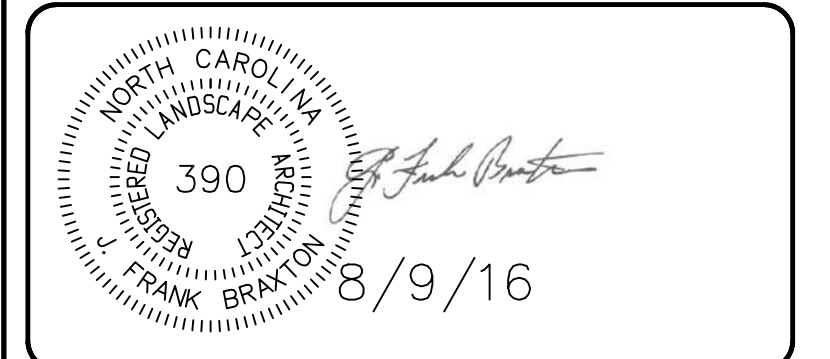
Date: \_\_\_\_\_ Permit # \_\_\_\_\_  
Signed: \_\_\_\_\_

**WILMINGTON**  
NORTH CAROLINA  
Approved Construction Plan

\_\_\_\_ Name \_\_\_\_\_ Date \_\_\_\_\_

Planning \_\_\_\_\_  
Traffic \_\_\_\_\_  
Fire \_\_\_\_\_

REV. #	DESCRIPTION	REV. BY	DATE
1	TIC COMMENTS, BUILDING REVISION, IMPERVIOUS REVISIONS, DRAINAGE REVISIONS	JFB	12/14/16



WILMINGTON AR HOUSING LLC  
772 EAST MARKET STREET  
SUITE 102  
LEESBURY, VA 28405

**Coastal Land Design, PLLC**  
Civil Engineering / Landscape Architecture  
Land Planning / Construction Management  
NCBELS Firm License No: P-0369  
P.O. Box 1172 Phone: 910-254-8933  
Wilmington, NC 28402 www.cldeng.com Fax: 910-254-0502

DRAWN : R. LEWIS	PROJECT NUMBER : 984-00
DESIGN : F. BRAXTON	SCALE : 1"=20'
CHECK : J. PETROFF	DATE : 08 JULY 2016
APPROVED : F. BRAXTON	FILE NAME :

ABBOTTS RUN APARTMENTS  
511 COBBLESTONE DRIVE  
WILMINGTON, NC

CLUBHOUSE REPLACEMENT  
DETAILS 2

JOB NUMBER SHEET NUMBER  
SP.09

**CITY OF WILMINGTON**  
NORTH CAROLINA

**Approved Construction Plan**

Name \_\_\_\_\_ Date \_\_\_\_\_

Planning \_\_\_\_\_

Traffic \_\_\_\_\_

Fire \_\_\_\_\_

**CITY OF WILMINGTON**  
NORTH CAROLINA

Public Services Engineering Division

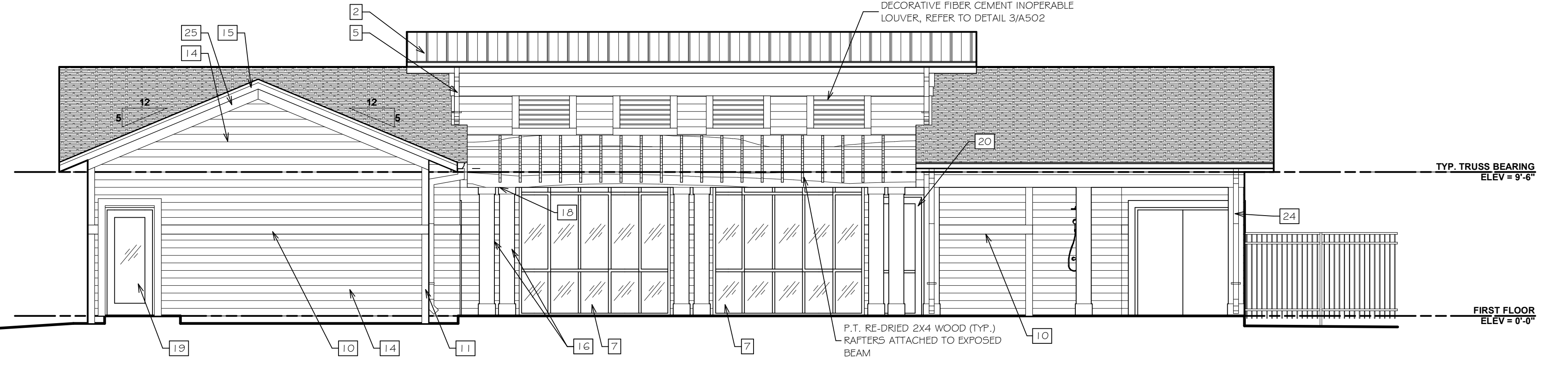
**APPROVED DRAINAGE PLAN**

Date: \_\_\_\_\_ Permit # \_\_\_\_\_

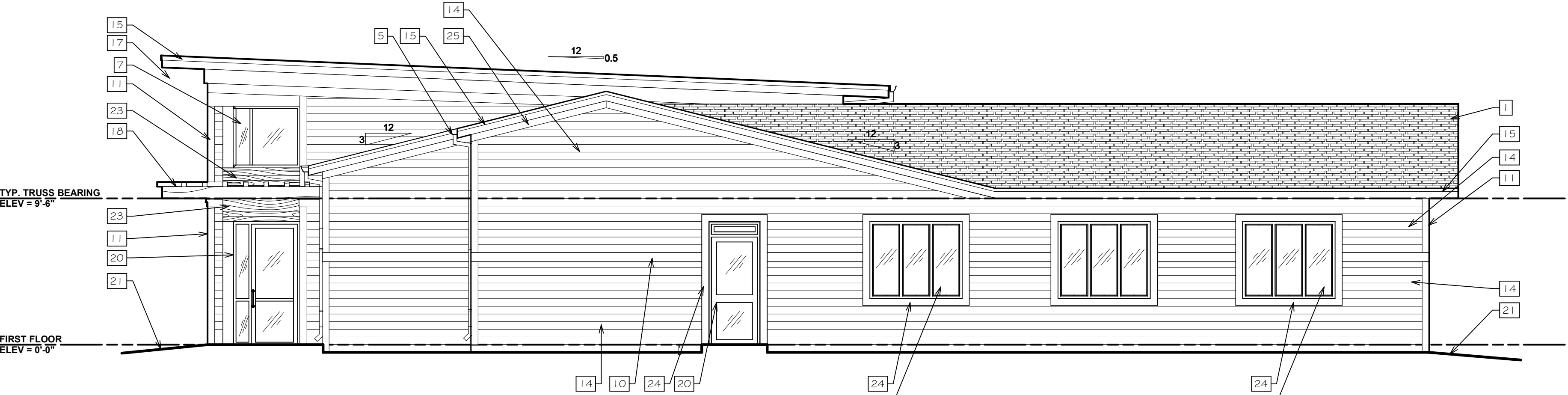
Signed: \_\_\_\_\_



**A EAST ELEVATION**  
SCALE: 3/16" = 1'-0"



**B WEST ELEVATION**  
SCALE: 3/16" = 1'-0"



**C NORTH ELEVATION**  
SCALE: 3/16" = 1'-0"

**ELEVATION KEYNOTES**

- 30 YEAR FIBERGLASS SHINGLES
- PRE-FIN. EXPOSED FASTENER METAL ROOFING
- EXTERIOR LIGHT FIXTURE (SEE ELECTRICAL DWGS)
- ELECTRICAL METER CENTER (SEE ELEC. DWGS)
- PRE-FIN. MTL GUTTER AND DOWNSPOUT
- VINYL CASEMENT WINDOW (JELD-WEN OR EQUAL)
- ALUM. STOREFRONT SYSTEM (OR ALTERNATE), REFER TO ELEVATIONS SHEET AGO 1
- NOT USED
- NOT USED
- 5/4 X 6 FIBER CEMENT WALL BAND
- 5/4 X 6 FIBER CEMENT TRIM
- 5/4 X 10" FIBER CEMENT SKIRT BOARD
- 5/4 X 6" FIBER CEMENT SKIRT BOARD
- FIBER CEMENT LAP SIDING WITH 6" EXPOSURE
- 1X FIBER CEMENT FASCIA AND MTL. DRIP EDGE
- 12" CELLULAR PVC COLUMN SURROUND WITH 9 1/4" PVC BASE AND CAPITAL (WHERE SHOWN), (CHADSWORTH - SQUARE NON-TAPERED) OR EQUAL
- NOT USED
- SUNSHADE STRUCTURE: P. T. AND RE-DRIED 4X10 BEAM AND WALL STUDS WITH 2X4 HORIZ. LOUVERS (STAIN AND SEAL)
- EXTERIOR INSULATED MTL DOOR
- ALUM. DOOR AND FRAME (REFER TO OPENING SCHED. SHT AGO 1)
- APPROX. FINISHED GRADE
- ALUM. POOL BARRIER FENCE, REFER TO DETAIL 1/AO02
- FIBER CEMENT LAP SIDING WITH 4" EXPOSURE PAINTED ACCENT COLOR
- 5/4 X 6 FIBER CEMENT WINDOW/DOOR SURROUND TRIM
- 5/4 X 6 FIBER CEMENT RAKE BOARD
- 5/16" FIBER CEMENT PANEL

**EXTERIOR MATERIALS LEGEND**

- FIBER CEMENT SOFFIT:**  
MANUF.: JAMES HARDIE BUILDING PRODUCTS, INC.  
PRODUCT STYLES: A. VENTED SMOOTH (HARDIESOFFIT)  
B. NON-VENTED SMOOTH (HARDIESOFFIT)  
C. BEADED PORCH PANEL (HARDIESOFFIT)
- PROFILE: 25"  
FINISH: FACTORY PRIMED, FINISH W/ 100% ACRYLIC EXTERIOR PAINT (2 COATS MIN.)  
COLOR: T.B.D.  
FASTENERS: PER MANUF. RECOMMENDATIONS
- FIBER CEMENT SIDING:**  
MANUF.: JAMES HARDIE BUILDING PRODUCTS, INC.  
PRODUCT: A. HARDIE TRIM BOARDS (SIZE INDICATED ON DRAWINGS)  
B. 5/8" THICK LAP SIDING W/ 6" EXPOSURE (HARDIPLANK)  
C. 5/16" PANEL (HARDIPANEL VERTICAL SIDING)
- FINISH: FACTORY PRIMED, FINISH W/ 100% ACRYLIC EXTERIOR PAINT (2 COATS)  
FASTENERS: PER MANUF. RECOMMENDATIONS
- CULTURED STONE TILE:**  
MANUF.: COVERALL STONE, INC.  
PRODUCT: STACKED PEBBLE TILE  
FINISH: STACKED SEASIDE OCEAN BLEND (PT-ST-0B)  
FASTENERS: PER MANUF. RECOMMENDATIONS  
ACCESSORIES: N/A  
GROUT: GRAY  
SUBSTRATE: MORTAR BED ON WIRE MESH AND SCRATCH COAT, ON 1/2" CEMENT BOARD (VERIFY WITH MANUF.)

- ROOF ASSEMBLY DESCRIPTION:**
- FIBERGLASS SHINGLES -**
- ROOFING: GRANULAR SURFACED, FIBERGLASS REINF. ASPHALT SHINGLE  
MANUF.: GAF MATERIALS CORPORATION  
PRODUCT: TIMBERLINE HD  
COLOR: TO BE SELECTED FROM MANUF. FULL LINE  
TRIM: .032 KYNAR COATED ALUMINUM (COLOR T.B.D.)  
FLASHINGS: .032 KYNAR COATED ALUMINUM (COLOR T.B.D.)  
ACCESSORIES: PROVIDE STANDARD ACCESSORIES AND ITEMS ESSENTIAL TO COMPLETION OF ROOF INSTALLATION INCLUDING HIP AND RIDGE SHINGLES, RIDGE VENT, CLOSURES, FLASHING, T STYLE DRIP EDGE AND FASCIA
- SEALANT: COLOR COORDINATED PRIMERLESS SILICONE OR HIGH GRADE, NON-DRYING BUTYL AS REQUIRED BY MANUF.
- SUBSTRATE: 5/8" EXTERIOR GRADE OSB SHEATHING WITH ICE AND WATER SHIELD AT HIPS AND VALLEYS ON (1) LAYER OF 30# ROOFING FELT AT SLOPES GREATER THAN 4:12, OR (2) LAYERS OF 15# ROOFING FELT AT SLOPES LESS THAN 4:12.

1. PROVIDE ROOF ACCESSORIES AND PENETRATION DETAILS AS REQUIRED BY MANUFACTURER TO MAINTAIN GOLDEN PLEDGE WARRANTY
- EXPOSED FASTENER METAL PANEL -**
- PANEL LENGTH: ONE PIECE SINGLE LENGTH PANEL  
METAL: .040 ALUM. (COLOR T.B.D.)  
DEPTH: 1 1/2"  
TRIM: .040 ALUM. (COLOR T.B.D.)  
SEAMS: EXPOSED FASTENER INTERLOCKING  
FLASHINGS: 36" MATCH GAUGE AND FINISH OF ROOF PANELS
- ACCESSORIES: PROVIDE STANDARD ACCESSORIES AND ITEMS ESSENTIAL TO COMPLETION OF A STANDING SEAM ROOF INSTALLATION INCLUDING ANCHOR CLIPS, TRIM, RIDGE, CLOSURES, FLASHING AND FASCIA
- SEALANT: COLOR COORDINATED PRIMERLESS SILICONE OR HIGH GRADE, NON-DRYING BUTYL AS REQUIRED BY MANUF.
- SUBSTRATE: 5/8" EXT. GRADE OSB SHEATHING WITH ICE AND WATER SHIELD ON (1) LAYER OF 30# ROOFING FELT

**\*CONTRACTOR NOTE:** PROVIDE FULL SCALE MOCK UP PANEL OF PROPOSED EXTERIOR FINISH MATERIALS PRIOR TO INSTALLATION

**KOT HOSTETLER ARCHITECTS**

ARCHITECTURE ■ PLANNING

2906 MARKET STREET, SUITE 101  
WILMINGTON, NC 28403

PHONE: Shawn - 910.612.1119  
Greg - 910.612.4364

www.kot-hostetler.com

**CONSULTANTS**

**NEW CLUBHOUSE FOR**

**ABBOTTS RUN APARTMENTS**

WILMINGTON AR HOUSING, LLC

WILMINGTON NORTH CAROLINA

**KOT HOSTETLER ARCHITECTS**  
STATE REGISTRATION

52570

WILMINGTON, NC

**ARCHITECT OF RECORD**  
SHAWN E. HOSTETLER  
11926

WILMINGTON, NC

**CONSTRUCTION DOCUMENTS : 11.30.16**

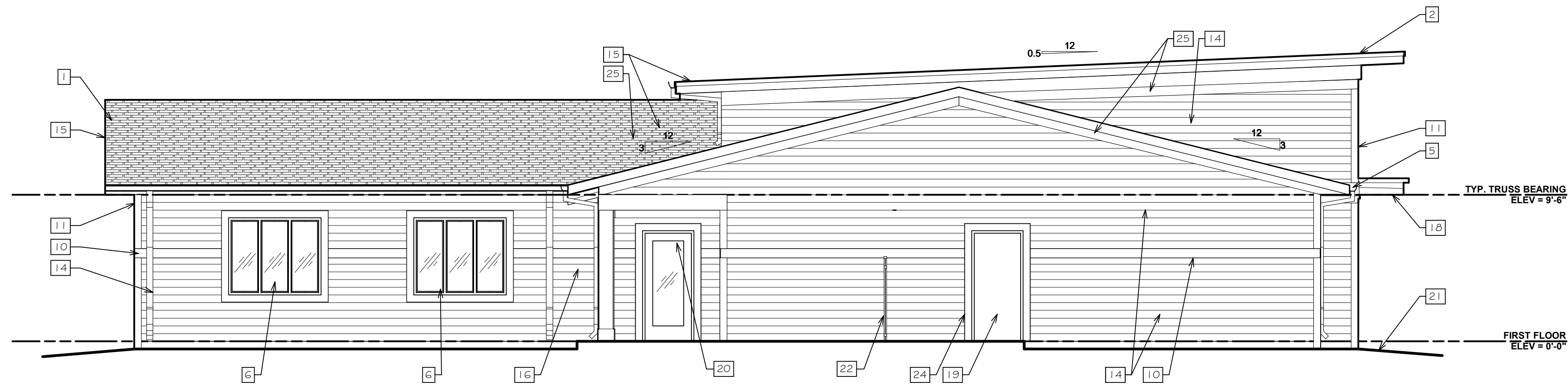
REVISIONS		
MARK	DATE	DESCRIPTION
2	11.30.16	VE REVISIONS

DRAWN BY: \_\_\_\_\_ PROJ. MGR: \_\_\_\_\_

**SHEET CONTENT**

**EXTERIOR ELEVATIONS**

<b>JOB NO.</b> 16004	<b>SHEET</b> <b>A201</b>
-------------------------	-----------------------------



**SOUTH ELEVATION**  
 SCALE: 3/16" = 1'-0"

**ELEVATION KEYNOTES**

1. 30 YEAR FIBERGLASS SHINGLES
2. PRE-FIN, EXPOSED FASTENER METAL ROOFING
3. EXTERIOR LIGHT FIXTURE (SEE ELECTRICAL DWG'S)
4. ELECTRICAL METER CENTER (SEE ELEC. DWG'S)
5. PRE-FIN, MTL GUTTER AND DOWNSPOUT
6. VINYL CASEMENT WINDOW (JELD-WEN OR EQUAL)
7. ALUM. STOREFRONT SYSTEM (OR ALTERNATE), REFER TO ELEVATIONS SHEET AGO1
8. NOT USED
9. NOT USED
10. 5/4 X 6 FIBER CEMENT WALL BAND
11. 5/4 X 6 FIBER CEMENT TRIM
12. 5/4 X 10' FIBER CEMENT SKIRT BOARD
13. 5/4 X 6' FIBER CEMENT SKIRT BOARD
14. FIBER CEMENT LAP SIDING WITH 6" EXPOSURE
15. 1X FIBER CEMENT FASCIA AND MTL. DRIP EDGE
16. 12" CELLULAR PVC COLUMN SURROUND WITH 9 1/4" PVC BASE AND CAPITAL (WHERE SHOWN), (CHADSWORTH - SQUARE NON-TAPERED) OR EQUAL
17. NOT USED
18. SUNSHADE STRUCTURE: P.T. AND RE-DRIED 4X10 BEAM AND WALL STUBS WITH 2X4 HORIZ. LOUVERS (STAIN AND SEAL)
19. EXTERIOR INSULATED MTL DOOR
20. ALUM. DOOR AND FRAME (REFER TO OPENING SCHED. SHT AGO1)
21. APPROX. FINISHED GRADE
22. ALUM. POOL BARRIER FENCE, REFER TO DETAIL 1/AO02
23. FIBER CEMENT LAP SIDING WITH 4" EXPOSURE PAINTED ACCENT COLOR
24. 5/4 X 6 FIBER CEMENT WINDOW/DOOR SURROUND TRIM
25. 5/4 X 8 FIBER CEMENT RAKE BOARD
26. 5/16" FIBER CEMENT PANEL

**EXTERIOR MATERIALS LEGEND**

- FIBER CEMENT SOFFIT:**  
 MANUF.: JAMES HARDIE BUILDING PRODUCTS, INC.  
 PRODUCT STYLES: A. VENTED SMOOTH (HARDIESOFFIT) B. NON-VENTED SMOOTH (HARDIESOFFIT) C. BEADED PORCH PANEL (HARDIESOFFIT)  
 PROFILE: 25"  
 FINISH: FACTORY PRIMED, FINISH W/ 100% ACRYLIC EXTERIOR PAINT (2 COATS MIN.)  
 COLOR: T.B.D.  
 FASTENERS: PER MANUF. RECOMMENDATIONS
- FIBER CEMENT SIDING:**  
 MANUF.: JAMES HARDIE BUILDING PRODUCTS, INC.  
 PRODUCT: A. HARDIE TRIM BOARDS (SIZE INDICATED ON DRAWINGS) B. 5/8" THICK LAP SIDING W/ 6" EXPOSURE (HARDIPANEL) C. 5/16" PANEL (HARDIPANEL VERTICAL SIDING)  
 FINISH: FACTORY PRIMED, FINISH W/ 100% ACRYLIC EXTERIOR PAINT (2 COATS)  
 FASTENERS: PER MANUF. RECOMMENDATIONS
- CULTURED STONE TILE:**  
 MANUF.: COVERALL STONE, INC.  
 PRODUCT: STACKED PEBBLE TILE  
 FINISH: STACKED SEASIDE OCEAN BLEND (PT-ST-OB)  
 FASTENERS: PER MANUF. RECOMMENDATIONS  
 ACCESSORIES: N/A  
 GROUT: GRAY  
 SUBSTRATE: MORTAR BED ON WIRE MESH AND SCRATCH COAT, ON 1/2" CEMENT BOARD (VERIFY WITH MANUF.)

**ROOF ASSEMBLY DESCRIPTION:**

- FIBERGLASS SHINGLES -**
- ROOFING: GRANULAR SURFACED, FIBERGLASS REINF. ASPHALT SHINGLE  
 MANUF.: GAF MATERIALS CORPORATION  
 PRODUCT: TIMBERLINE HD  
 COLOR: TO BE SELECTED FROM MANUF. FULL LINE  
 TRIM: .032 KYNAR COATED ALUMINUM (COLOR T.B.D.)  
 FLASHINGS: .032 KYNAR COATED ALUMINUM (COLOR T.B.D.)  
 ACCESSORIES: PROVIDE STANDARD ACCESSORIES AND ITEMS ESSENTIAL TO COMPLETION OF ROOF INSTALLATION INCLUDING HIP AND RIDGE SHINGLES, RIDGE VENT, CLOSURES, FLASHING, T STYLE DRIP EDGE AND FASCIA
- SEALANT: COLOR COORDINATED PRIMERLESS SILICONE OR HIGH GRADE, NON-DRYING BUTYL AS REQUIRED BY MANUF.
- SUBSTRATE: 5/8" EXTERIOR GRADE OSB SHEATHING WITH ICE AND WATER SHIELD AT HIPS AND VALLEYS ON (1) LAYER OF 30# ROOFING FELT AT SLOPES GREATER THAN 4:12, OR (2) LAYERS OF 15# ROOFING FELT AT SLOPES LESS THAN 4:12.

1. PROVIDE ROOF ACCESSORIES AND PENETRATION DETAILS AS REQUIRED BY MANUFACTURER TO MAINTAIN "GOLDEN EDGE" WARRANTY

**EXPOSED FASTENER METAL PANEL -**

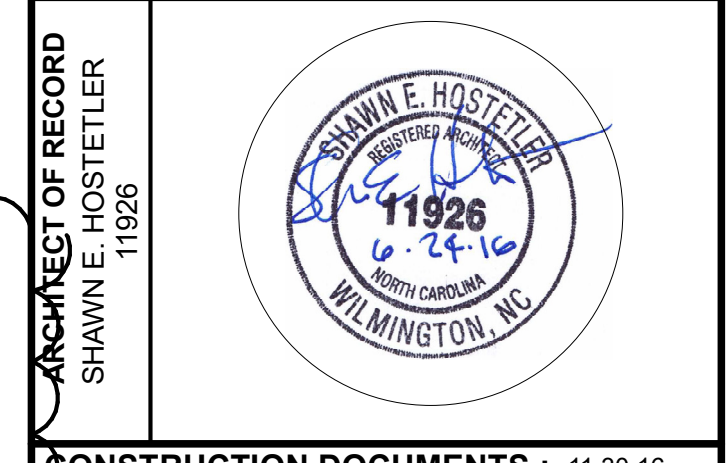
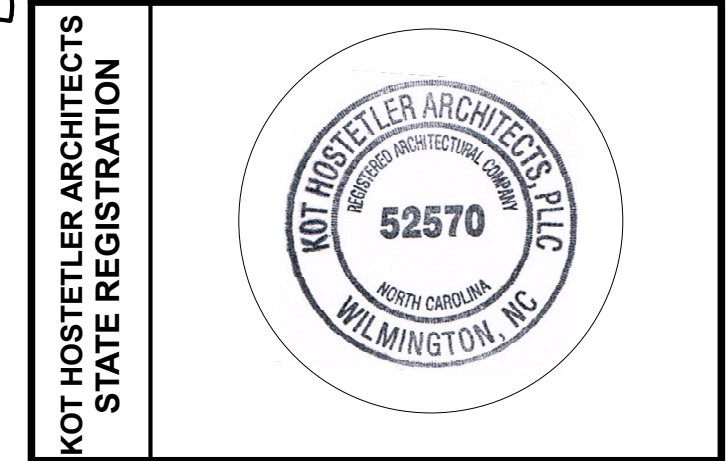
- PANEL LENGTH: ONE PIECE SINGLE LENGTH PANEL  
 METAL: .040 ALUM. (COLOR T.B.D.)  
 DEPTH: 1 1/2"  
 TRIM: .040 ALUM. (COLOR T.B.D.)  
 SEAMS: EXPOSED FASTENER INTERLOCKING  
 PANEL WIDTH: 36"  
 FLASHINGS: MATCH GAUGE AND FINISH OF ROOF PANELS
- ACCESSORIES: PROVIDE STANDARD ACCESSORIES AND ITEMS ESSENTIAL TO COMPLETION OF A STANDING SEAM ROOF INSTALLATION INCLUDING ANCHOR CLIPS, TRIM, RIDGE, CLOSURES, FLASHING AND FASCIA
- SEALANT: COLOR COORDINATED PRIMERLESS SILICONE OR HIGH GRADE, NON-DRYING BUTYL AS REQUIRED BY MANUF.
- SUBSTRATE: 5/8" EXT. GRADE OSB SHEATHING WITH ICE AND WATER SHIELD ON (1) LAYER OF 30# ROOFING FELT

**\*CONTRACTOR NOTE:** PROVIDE FULL SCALE MOCK UP PANEL OF PROPOSED EXTERIOR FINISH MATERIALS PRIOR TO INSTALLATION

**KOT HOSTETLER ARCHITECTS**  
 ARCHITECTURE ■ PLANNING  
 2906 MARKET STREET, SUITE 101  
 WILMINGTON, NC 28403  
 PHONE: Shawn - 910.612.1119  
 Greg - 910.612.4364  
 www.kot-hostetler.com

**CONSULTANTS**

**NEW CLUBHOUSE FOR**  
**ABBOTTS RUN APARTMENTS**  
 WILMINGTON AR HOUSING, LLC  
 WILMINGTON NORTH CAROLINA



CONSTRUCTION DOCUMENTS : 11.30.16

REVISIONS		
MARK	DATE	DESCRIPTION
2	11.30.16	VE REVISIONS

DRAWN BY: \_\_\_\_\_ PROJ. MGR: \_\_\_\_\_  
**SHEET CONTENT**

EXTERIOR ELEVATIONS

JOB NO. 16004	SHEET <b>A202</b>
------------------	----------------------

**City of WILMINGTON NORTH CAROLINA**  
**Approved Construction Plan**  
 Name \_\_\_\_\_ Date \_\_\_\_\_  
 Planning \_\_\_\_\_  
 Traffic \_\_\_\_\_  
 Fire \_\_\_\_\_

**City of WILMINGTON NORTH CAROLINA**  
 Public Services Engineering Division  
**APPROVED DRAINAGE PLAN**  
 Date: \_\_\_\_\_ Permit # \_\_\_\_\_  
 Signed: \_\_\_\_\_