

INVENTORY OF TREES TO BE PROTECTED

TREE TYPE	TREE SIZE	QUANTITY	TOTAL DBH	CREDIT
GUM	18"	1	18	4
GUM	11"	1	11	2
GUM	9"	3	27	6
MAPLE	16"	1	16	3
CYPRESS	14"	1	14	3
CYPRESS	11"	1	11	2
CYPRESS	10"	2	20	4
PINE	19"	2	38	8
PINE	18"	1	18	4
PINE	17"	3	51	9
PINE	16"	1	16	3
PINE	15"	3	45	9
PINE	14"	2	28	6
PINE	13"	8	104	24
PINE	12"	6	72	18
PINE	8"	1	8	2
MAGNOLIA	8"	1	8	2
MAGNOLIA	5"	1	5	1
MAGNOLIA	4"	4	16	4
DOGWOOD	11"	1	11	2
DOGWOOD	5"	1	5	1
DOGWOOD	4"	1	4	1
HOLLY	11"	1	11	2
OAK	16"	1	16	3
OAK	13"	1	13	3
OAK	10"	1	10	2
OAK	8"	2	16	4
OAK	7"	1	7	2

INVENTORY OF TREES TO BE REMOVED

TREE TYPE	TREE SIZE	QUANTITY
*GUM	20"	1
*GUM	14"	2
*GUM	12"	4
*GUM	11"	6
*GUM	8"	2
*MAPLE	12"	1
*MAPLE	10"	1
*CYPRESS	13"	2
*CYPRESS	12"	1
*CYPRESS	7"	1
*CHERRY	7"	1
PINE	20"	1
PINE	16"	8
PINE	15"	9
PINE	14"	10
PINE	13"	7
PINE	12"	5

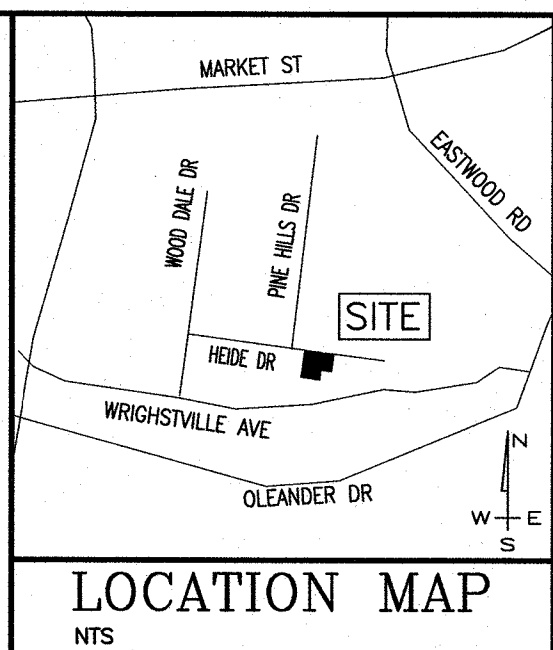
INVENTORY OF TREES TO BE REMOVED

TREE TYPE	TREE SIZE	QUANTITY
*MAGNOLIA	10"	1
*MAGNOLIA	9"	1
*MAGNOLIA	8"	1
*MAGNOLIA	7"	7
*MAGNOLIA	6"	1
*MAGNOLIA	4"	2
*DOGWOOD	8"	1
*DOGWOOD	7"	1
*DOGWOOD	6"	1
*DOGWOOD	4"	6
*OAK	18"	1
*OAK	16"	1
*OAK	12"	2
*OAK	11"	1
*OAK	10"	2
*OAK	9"	4
*OAK	8"	2
*OAK	6"	1
*OAK	3"	1
*HARDWOOD	8"	1

TREE MITIGATION CHART

TREE TYPE	TREE SIZE	# OF TREES	% MITIGATION	REPLACEMENT TREES REQUIRED
GUM	20"	1	75	(20x(0.75*2))/3=10
GUM	14"	2	75	(28x(0.75*2))/3=14
GUM	12"	4	75	(48x(0.75*2))/3=24
GUM	11"	6	75	(66x(0.75*2))/3=33
GUM	8"	2	75	(16x(0.75*2))/3=5.33
MAPLE	12"	1	50	(12x(0.50*2))/3=4
MAPLE	10"	1	50	(10x(0.50*2))/3=6.67
CYPRESS	13"	2	100	(26x(1*2))/3=17.33
CYPRESS	12"	1	100	(12x(1*2))/3=8
MAGNOLIA	10"	1	100	(10x(1*2))/3=6.67
MAGNOLIA	9"	1	100	(9x(1*2))/3=6
MAGNOLIA	8"	1	100	(8x(1*2))/3=5.33
DOGWOOD	8"	1	100	(8x(1*2))/3=5.33
OAK	18"	1	25	(18x(0.25*2))/3=3
OAK	16"	1	25	(16x(0.25*2))/3=2.67
OAK	12"	2	25	(24x(0.25*2))/3=4
OAK	11"	1	25	(11x(0.25*2))/3=1.83
OAK	10"	2	25	(20x(0.25*2))/3=3.33
OAK	9"	4	25	(36x(0.25*2))/3=6
OAK	8"	2	25	(16x(0.25*2))/3=2.67
HARDWOOD	8"	1		(8x(0.75*2))/3=4

NOTES:
REPLACEMENT TREES REQUIRED = 170 TREES
TREE CREDIT = 134 TREES
TOTAL = 36 TREES



REVISIONS

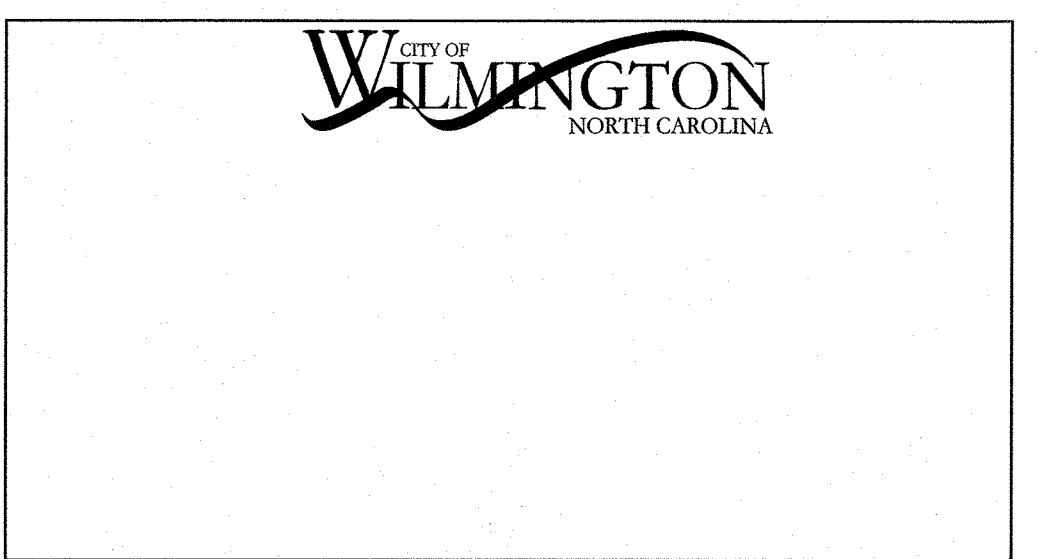
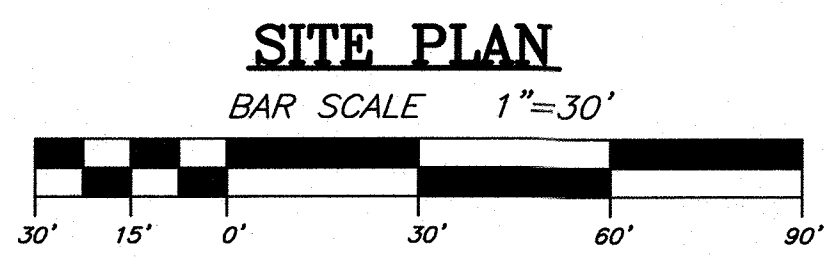
No./Date	Description	By

- SITE INVENTORY NOTES:**
- PREPARER OF THE PLAN: TRIPP ENGINEERING, P.C.
 - APPLICANT NAME: WILLIAMS DEVELOPMENT GROUP, LLC LANDS
 - SITE ADDRESS OF THE DEVELOPMENT: HEIDE DRIVE
 - PROPERTY OWNER: STW PROPERTIES, LLC
 - DEVELOPER: WILLIAMS DEVELOPMENT GROUP
 - PROPERTY BOUNDARY: SEE PLAN
TAX PARCEL INFORMATION:
TRACT 2 PINE HILLS MAP BOOK 6 PAGE 59 DEED BOOK 5274 PAGE 613
TRACT 3 PINE HILLS MAP BOOK 6 PAGE 59 DEED BOOK 5274 PAGE 613
 - PROPERTY ZONING: R-10 RESIDENTIAL
PID: R05520-008-068-000
PID: R05520-008-067-000
52,272 SF / AC: 1.02
 - ADJACENT PROPERTY OWNER INFORMATION: SEE PLAN
 - VICINITY MAP: SEE PLAN
 - TOPOGRAPHY: SEE PLAN
 - 100-YEAR FLOOD BOUNDARY: N/A
 - EXISTING DITCHES, CREEKS AND STREAMS: SEE PLAN
 - SOIL: BH-HAYMEADE, MU-MURVILLE, SE-SEAGATE
 - CAMA AEC: N/A
 - CAMA LAND CLASSIFICATION: URBAN
 - CONSERVATION RESOURCES: NONE
ASSOCIATED SETBACKS: N/A
 - HISTORIC OR ARCHAEOLOGICAL SITE: N/A
 - CEMETERIES, BURIAL SITES/GROUNDS: N/A
 - FORESTED AREAS, HABITAT AND DOMINANT SPECIES: N/A
 - WETLANDS: SEE PLAN
 - PROTECTED SPECIES OR HABITAT: N/A
 - EXISTING OR PROPOSED THOROUGHFARES, BIKE ROUTES, PEDESTRIAN SIDEWALKS OR TRAILS AND TRANSIT FACILITIES: SEE SITE PLAN

- LEGEND**
- X TREE TO BE REMOVED
 - TREE PROTECTION
 - DEMO
 - EXISTING IRON
 - SET IRON
 - CONC. MONUMENT
 - ⊕ EXIST. FIRE HYDRANT
 - EXIST. POWER POLE
 - PROPERTY LINE
 - OHE EXIST. OVERHEAD ELECTRIC
 - SS EXIST. SANITARY SEWER LINE
 - SD EXIST. STORM DRAINAGE LINE
 - W EXIST. WATER LINE

- SURVEYOR LEGEND**
- = IRON PIPE FOUND (EIP)
 - = IRON REBAR FOUND (EIR)
 - = IRON PIPE SET (IPS)
 - △ = CONC. MONUMENT FOUND (ECM)
 - △ = MAG NAIL SET
 - ⊕ = CENTERLINE (CL)
 - R/W = RIGHT OF WAY
 - = NON-MONUMENTED POINT (NMP)
 - ⊕ = CONIFER TREE (SIZES/TYPES AS NOTED)
 - ⊕ = DECIDUOUS TREE (SIZES/TYPES AS NOTED)
 - ⊕ = FLOWERING TREE (SIZES/TYPES AS NOTED)

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



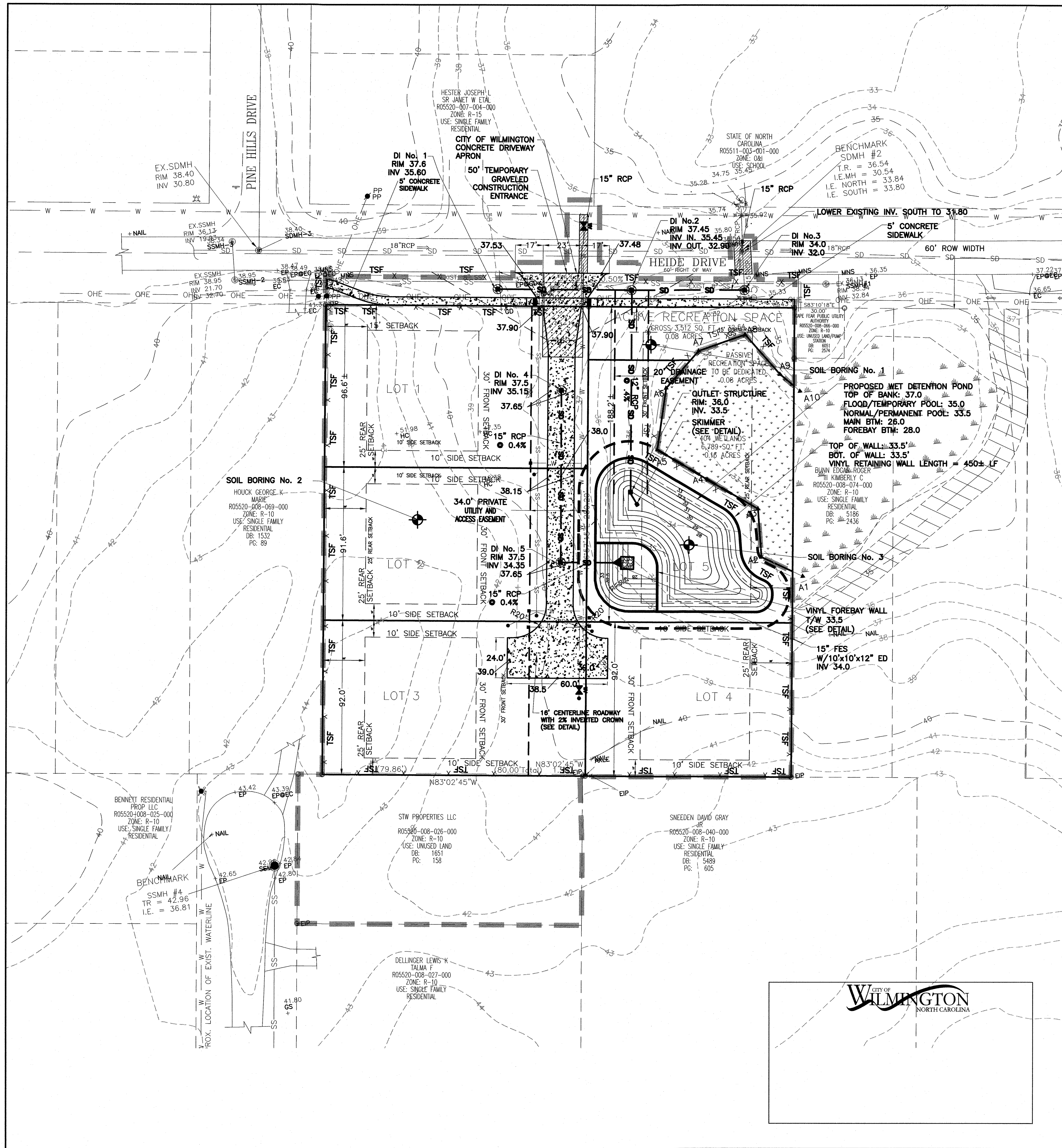
TRIPP ENGINEERING, P.C.
 419 Chestnut Street
 Wilmington, North Carolina 28401
 Phone 910-763-5100
 Fax 910-763-5681
 © 2020 TRIPP ENGINEERING, P.C.
 LICENSE NO. C-14287

WOODLAND PARK SUBDIVISION
 WILMINGTON, NORTH CAROLINA

PROGRESS DRAWING
 DO NOT USE FOR CONSTRUCTION

DATE 06-18-20
 DESIGN PGT
 DRAWN BJH

C1
 SHEET 1 OF 7
 19009



NOTES:

ZONING

- 1) TOPOGRAPHY AND TREE SURVEY COMPLETED BY DANFORD AND ASSOC.
- 2) PERMITTING OF SIGNAGE IS A SEPARATE PROCESS. CITY OF WILMINGTON WILL NOT ALLOW OBSTRUCTIONS WITHIN THE RIGHT-OF-WAY.
- 3) CONTRACTOR SHALL FIELD VERIFY SIZE, MATERIAL, INVERTS AND LOCATION OF ALL EXISTING UTILITIES PRIOR TO INSTALLATION OF PROPOSED CONNECTIONS.
- 4) EXISTING EASEMENTS AS SHOWN, PROPOSED EASEMENTS AS SHOWN.
- 5) CONTRACTOR SHALL MAINTAIN ALL-WEATHER ACCESS FOR EMERGENCY VEHICLES AT ALL TIMES DURING CONSTRUCTION.
- 6) 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.

SOLID WASTE

- 1) SITE TO USE ROLL OUT CARTS.

TRAFFIC

- 1) ALL PAVEMENT MARKINGS IN PUBLIC RIGHTS-OF-WAY AND FOR DRIVEWAYS ARE TO BE THERMOPLASTIC AND MEET CITY AND/OR NCDOT STANDARDS.
- 2) IT SHALL BE THE RESPONSIBILITY OF THE SUBDIVIDER TO ERECT OFFICIAL STREET NAME SIGNS AT ALL INTERSECTIONS ASSOCIATED WITH THE SUBDIVISION IN ACCORDANCE WITH THE TECHNICAL STANDARDS AND SPECIFICATIONS MANUAL OF THE SURVEY AND ERECT NAME SIGNS OR MAY CHOOSE TO CONTRACT WITH THE CITY TO INSTALL THE STREET SIGNS AND THE SUBDIVIDER SHALL PAY THE COST OF SUCH INSTALLATION. CONTACT TRAFFIC ENGINEERING AT 341-7888 TO DISCUSS INSTALLATION OF TRAFFIC AND STREET NAME SIGNS. PROPOSED STREET NAMES MUST BE APPROVED PRIOR TO INSTALLATION OF STREET NAME SIGNS.
- 3) 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.
- 4) CONTACT TRAFFIC ENGINEERING AT 341-7888 TO ENSURE THAT ALL TRAFFIC SIGNALS FACILITIES AND EQUIPMENT ARE SHOWN ON THE PLAN.
- 5) CALL TRAFFIC ENGINEERING AT 341-7888 FORTY-EIGHT HOURS PRIOR TO ANY EXCAVATION IN THE RIGHT-OF-WAY.
- 6) ANY BROKEN OR MISSING SIDEWALK PANELS, DRIVEWAY PANELS AND CURBING WILL BE REPLACED.
- 7) CONTACT TRAFFIC ENGINEERING AT 741-7888 TO DISCUSS STREET LIGHTING OPTIONS.
- 8) ALL TRAFFIC CONTROL SIGNS AND MARKINGS OFF THE RIGHT-OF-WAY ARE TO BE MAINTAINED BY THE PROPERTY OWNER IN ACCORDANCE WITH MUTCD STANDARDS.
- 9) NO ROWS TO BE CLOSED.
- 10) NO STREETS PROPOSED.
- 11) NO OFF SITE PARKING PROPOSED.
- 12) PRIVATE ACCESS EASEMENTS IS PROPOSED.
- 13) TRAFFIC ENGINEERING MUST APPROVE A PAVEMENT MARKING PRIOR TO ACTUAL STRIPING.
- 14) ALL PARKING STALL MARKING AND LANE ARROWS WITHIN THE PARKING AREA SHALL BE WHITE.
- 15) STOP SIGNS AND STREET SIGNS TO REMAIN IN PLACE DURING CONSTRUCTION.
- 16) A UTILITY CUT PERMIT IS REQUIRED FOR EACH OPEN CUT OF A CITY STREET. CONTACT 341-5888 FOR MORE DETAILS. IN CERTAIN CASES AN ENTIRE RESURFACING OF THE AREA BEING OPEN CUT MAY BE REQUIRED.
- 17) A LANDSCAPING PLAN INDICATING THE LOCATION OF REQUIRED STREET TREES SHALL BE SUBMITTED TO THE CITY OF WILMINGTON TRAFFIC ENGINEERING DIVISION AND PARKS AND RECREATION DEPARTMENT FOR REVIEW AND APPROVAL PRIOR TO THE RECORDING OF THE FINAL PLAT. (SD 15-14 CofW TECH STDS)

LANDSCAPING

- 1) A LANDSCAPING PLAN INDICATING THE LOCATION OF REQUIRED STREET TREES SHALL BE SUBMITTED TO THE CITY OF WILMINGTON TRAFFIC ENGINEERING DIVISION AND THE PARKS AND RECREATION DEPARTMENT FOR REVIEW AND APPROVAL PRIOR TO THE RECORDING OF THE FINAL PLAT.
- 2) NO OBSTRUCTIONS ARE PERMITTED IN THE SPACE BETWEEN THIRTY (30) INCHES AND TEN (10) FEET ABOVE THE GROUND WITHIN THE TRIANGULAR SITE DISTANCE.
- 3) PRIOR TO ANY CLEARING, GRADING OR CONSTRUCTION ACTIVITY, TREE PROTECTION FENCING WITHIN INSTALLED AROUND PROTECTED TREES OR GROVES OF TREES AND NO CONSTRUCTION WORKERS, TOOLS, MATERIALS, OR VEHICLES ARE PERMITTED WITHIN THE TREE PROTECTION FENCING.
- 4) 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.
- 5) 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 INSTRUCTIONS ON TREE PROTECTION METHODS.

CFPUA

- 1) WATER AND SEWER SERVICE SHALL MEET CAPE FEAR PUBLIC UTILITY AUTHORITY (CFPUA) DETAILS AND SPECIFICATIONS.
- 2) PROJECT SHALL COMPLY WITH THE CFPUA CROSS CONNECTION CONTROL REQUIREMENTS. WATER METER(S) CANNOT BE RELEASED UNTIL ALL REQUIREMENTS ARE MET AND THE STATE HAS GIVEN THEIR FINAL APPROVAL.
- 3) 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 DEVELOPERS SIDE OF THE WATER METER BOX.
- 4) ANY IRRIGATION SYSTEM SUPPLIED BY CFPUA WATER SHALL COMPLY WITH THE CFPUA'S CONNECTION CONTROL REGULATION. CALL 332-6419 FOR INFORMATION.
- 5) ANY BACKFLOW PREVENTION DEVICES REQUIRED BY CFPUA WILL NEED TO BE ON THE LIST OF APPROVED DEVICES FOR USFCOCHOR OR ASSE.
- 6) PUBLIC WATER AND SEWER EXIST WITHIN WRIGHTSVILLE AVE. R/W. NO RECORDS OF INDIVIDUAL EASEMENTS EXIST.
- 7) CONTACT THE NORTH CAROLINA ONE CALL CENTER AT 1-800-632-4949 PRIOR TO DOING ANY DIGGING, CLEARING OR GRADING.
- 8) ANY IRRIGATION SYSTEM SHALL BE EQUIPPED WITH A RAIN AND FREEZER SENSOR.
- 9) CONTRACTOR TO FIELD VERIFY EXISTING WATER AND SEWER SERVICE LOCATIONS, SIZES AND MATERIALS PRIOR TO CONSTRUCTION. ENGINEER TO BE NOTIFIED OF ANY CONFLICTS.

DRAINAGE

- 1) INVERTED CROWN TO DROP INLETS TO OPEN GRASS SWALE TO SOUTHEAST.

FIRE AND LIFE SAFETY

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

REVISIONS			
No./Date	Description	By	
08-24-20	SHOW OPEN CUT	EJW	
02-19-21	ADDED POND	BJH	
02-24-21	COW COMMENTS	EJW	

LOCATION MAP



SITE DATA:

PIN NUMBERS
 PROPERTY OWNER
 PROJECT ADDRESS
 TRACT AREA

PID: R05520-008-068-000
 PID: R05520-008-067-000
 STW PROPERTIES, LLC
 5030 HEIDE DR.
 5032 HEIDE DR.
 78,457 SF (1.80 AC)

ZONING DISTRICT
 AREA NOT IN A FEMA 100-YEAR FLOOD ZONE
 CAMA LAND USE
 PROPOSED ZONING
 PROPOSED USE SQUARE FOOTAGE(S) OF USE(S)
 NUMBER OF UNITS/BEDROOMS
 BUILDING CONSTRUCTION TYPE
 BUILDING LOT COVERAGE PERCENTAGE

R-10
 URBAN
 R-10
 N/A
 8/20
 TBD

LOT 1
 LOT 2
 LOT 3
 LOT 4

16%
 16%
 16%
 21%

BUILDING HEIGHT / # OF STORIES
 SF PER FLOOR
 BUILDING SETBACKS - REQUIRED AND PROPOSED

1
 2,850 SF
 REQUIRED
 FRONT: 30 FT
 SIDE: 10
 REAR: 25
 PROPOSED
 FRONT: 30 FT
 SIDE: 10
 REAR: 25

PARKING SPACES
 EXISTING IMPERVIOUS AREA
 PROPOSED ON SITE IMPERVIOUS AREA
 LOTS
 ACCESS ROAD
 SIDEWALK
 FUTURE
 TOTAL

N/A
 0 SF
 24,760 SF
 4,920 SF
 2,020 SF
 1,225 SF
 32,925 SF
 0.76 AC (42%) SF

PROPOSED OFF SITE IMPERVIOUS CONCRETE
 DISTURBED AREA

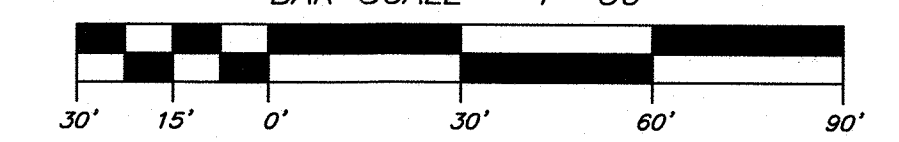
2,013 SF
 .05 AC
 92,898 SF (2.13 AC)

NUMBER OF UNITS
 RECREATION AREA - ((0.03 AC/UNIT) (4 UNITS X .03) = 0.12 AC REQ'D
 ** 0.08 AC. ACTIVE PROVIDED **
 ** 0.08 AC. PASSIVE PROVIDED **

4 LOTS

SITE PLAN

BAR SCALE 1"=30'

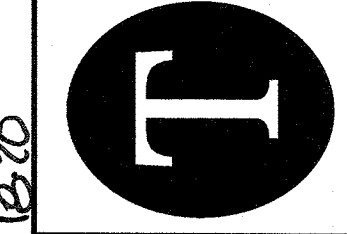


LEGEND

- SS SEWER
- W WATER
- SD PROPOSED STORM WATER
- SD FLAIED END SECTION STORM WATER
- TSF x TSF LIMITS OF DISTURBANCE
- TSF x TSF TEMPORARY SILT FENCE
- PROPOSED SIDEWALK
- 38.9 PROPOSED SPOT ELEVATION
- DROP INLET PROTECTION

**GRADING, DRAINAGE EROSION CONTROL
 STORMWATER MANAGEMENT AND UTILITY PLAN
 WOODLAND PARK SUBDIVISION
 WILMINGTON, NORTH CAROLINA**

TRIPP ENGINEERING, P.C.
 419 Chestnut Street
 Wilmington, North Carolina 28401
 Phone 910-763-5100
 Fax 910-763-5631
 © 2021 TRIPP ENGINEERING, P.C.

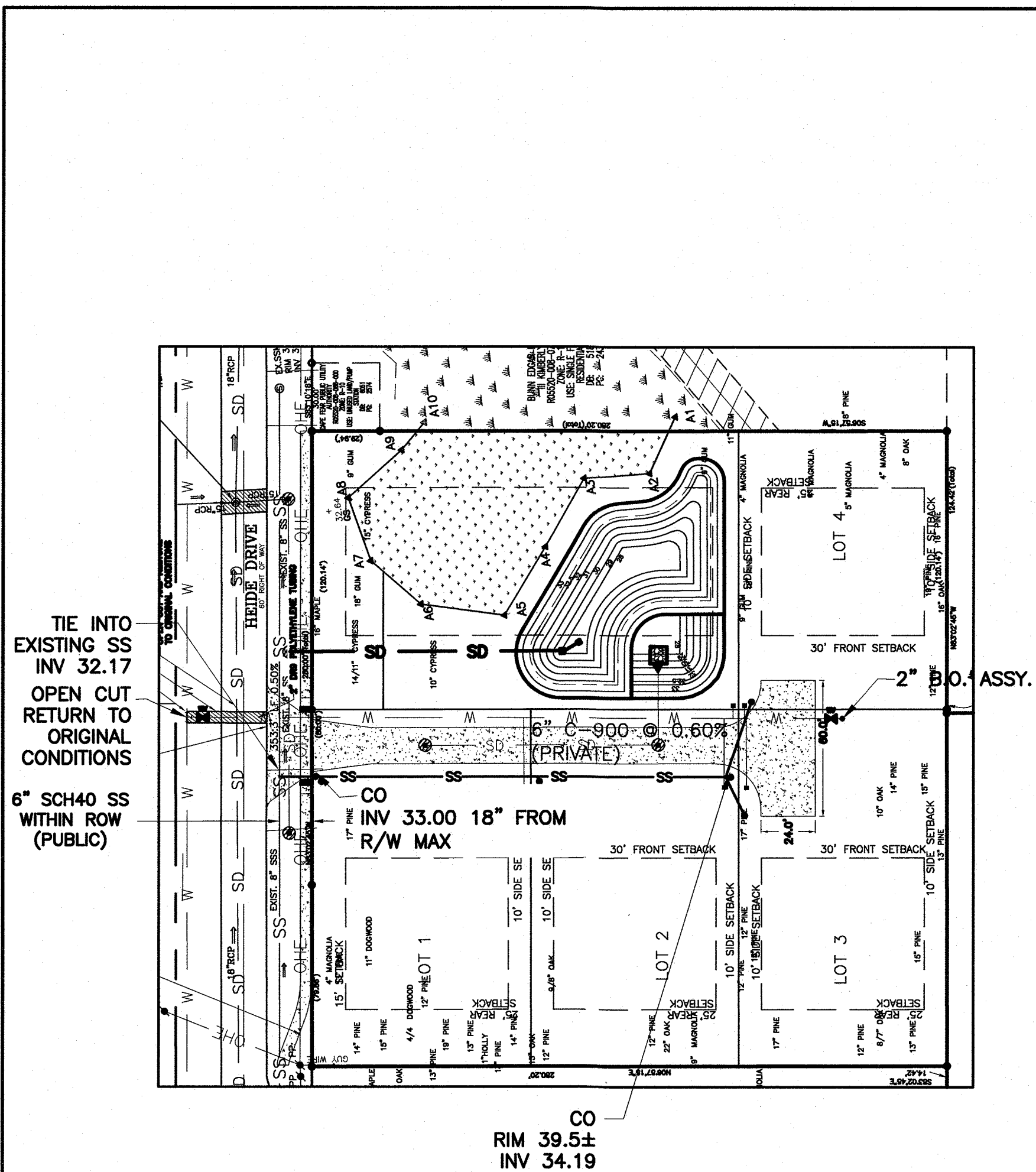


PROGRESS DRAWING
 DO NOT USE FOR CONSTRUCTION

DATE 06-18-20
 DESIGN PGT
 DRAWN BJH

C3

SHEET 3 OF 7
 19009



PLAN
1" = 40'

CAPE FEAR PUBLIC UTILITY AUTHORITY STANDARD NOTES:

1. ALL PROPOSED ADDITIONS TO THE CAPE FEAR PUBLIC UTILITY AUTHORITY (CPFA) WATER DISTRIBUTION AND SANITARY SEWER COLLECTION SYSTEMS, AS SHOWN AND SPECIFIED HEREIN, SHALL BE DESIGNED AND CONSTRUCTED TO CONFORM TO STATE RULES AND THE CPFA'S MINIMUM TECHNICAL STANDARDS. THE CPFA'S MINIMUM TECHNICAL STANDARDS ARE CONTAINED IN THE CURRENT DESIGN GUIDANCE MANUAL, MATERIAL SPECIFICATION MANUAL, TECHNICAL SPECIFICATIONS FOR CONSTRUCTION, AND STANDARD DRAWING DETAILS. THESE STANDARDS APPLY TO ALL MANHOLES, STRUCTURES, AND SERVICE LINES, UNLESS OTHERWISE SPECIFIED.
2. WATER AND SEWER SERVICES SHALL BE PERPENDICULAR TO MAIN AND TERMINATE 18" INSIDE RIGHT-OF-WAY LINE. SEWER SERVICES ON CUL-DE-SACS ARE REQUIRED TO BE PERPENDICULAR, OR MUST ORIGINATE IN END OF LINE MANHOLE AND TERMINATE 18" INSIDE RIGHT-OF-WAY LINE. ALL SEWER SERVICES CONNECTING INTO DUCTILE IRON MAINS SHALL ALSO BE CONSTRUCTED OF D.I.P.
3. MINIMUM 10' UTILITIES EASEMENT PROVIDED ALONG THE FRONTAGE OF ALL LOTS AND AS SHOWN FOR NEW DEVELOPMENTS.
4. ALL SEWER SERVICES CONNECTING INTO DUCTILE IRON MAINS SHALL ALSO BE CONSTRUCTED OF D.I.P.
5. MINIMUM 10' UTILITIES EASEMENT PROVIDED ALONG THE FRONTAGE OF ALL LOTS AND AS SHOWN FOR NEW DEVELOPMENTS.
6. NO FLEXIBLE COUPLINGS SHALL BE USED.
7. ALL STAINLESS STEEL FASTENERS SHALL BE TYPE 316.
8. CLEANOUTS SHALL BE LOCATED A MINIMUM OF 6 FEET FROM ALL PROPERTY CORNERS.
9. WATER METER BOXES ARE TO BE A MINIMUM OF 5 FEET FROM THE PROPERTY CORNER.
10. UNUSED SERVICES SHALL BE ABANDONED. ABANDONED WATER SERVICES SHALL BE PROTECTED FROM MAIN.
11. A MINIMUM OF 10' MAIN LINE, 5' UPSTREAM AND 10' DOWNSTREAM SHALL BE REPLACED FOR NEW SEWER SERVICE CONNECTIONS TO EXISTING CLAY GRAVITY SEWER MAINS.
12. A MINIMUM OF 20' OF MAIN LINE, 10' UPSTREAM AND 10' DOWNSTREAM SHALL BE REPLACED FOR NEW CUT IN MANHOLES ON EXISTING CLAY GRAVITY SEWER MAINS.
13. PROVIDE A MINIMUM DISTANCE OF 36 (6) INCHES BETWEEN EDGE OF MANHOLE CORE HOLES AND MANHOLE BARREL. CORES PROVIDE A MINIMUM DISTANCE OF 36 (6) INCHES BETWEEN EDGES OF CORE HOLES, DURING THE MANHOLE CONSTRUCTION.
14. NOT FROM ANY OTHER MAIN RISE INSTALLED BY OTHER CUT SHALL BE BURIED AT A MINIMUM OF THREE (3) FEET AND A MAXIMUM OF FIVE (5) FEET BELOW FINISHED GRADE. TOPPING GREATER THAN FIVE (5) FEET MUST BE APPROVED BY CPFA.
15. ALL MANHOLE MAIN LINE AND SERVICE PIPES TO BE INSTALLED AT A MINIMUM OF CROWN TO CROWN OF THE LARGEST DIAMETER PIPE.

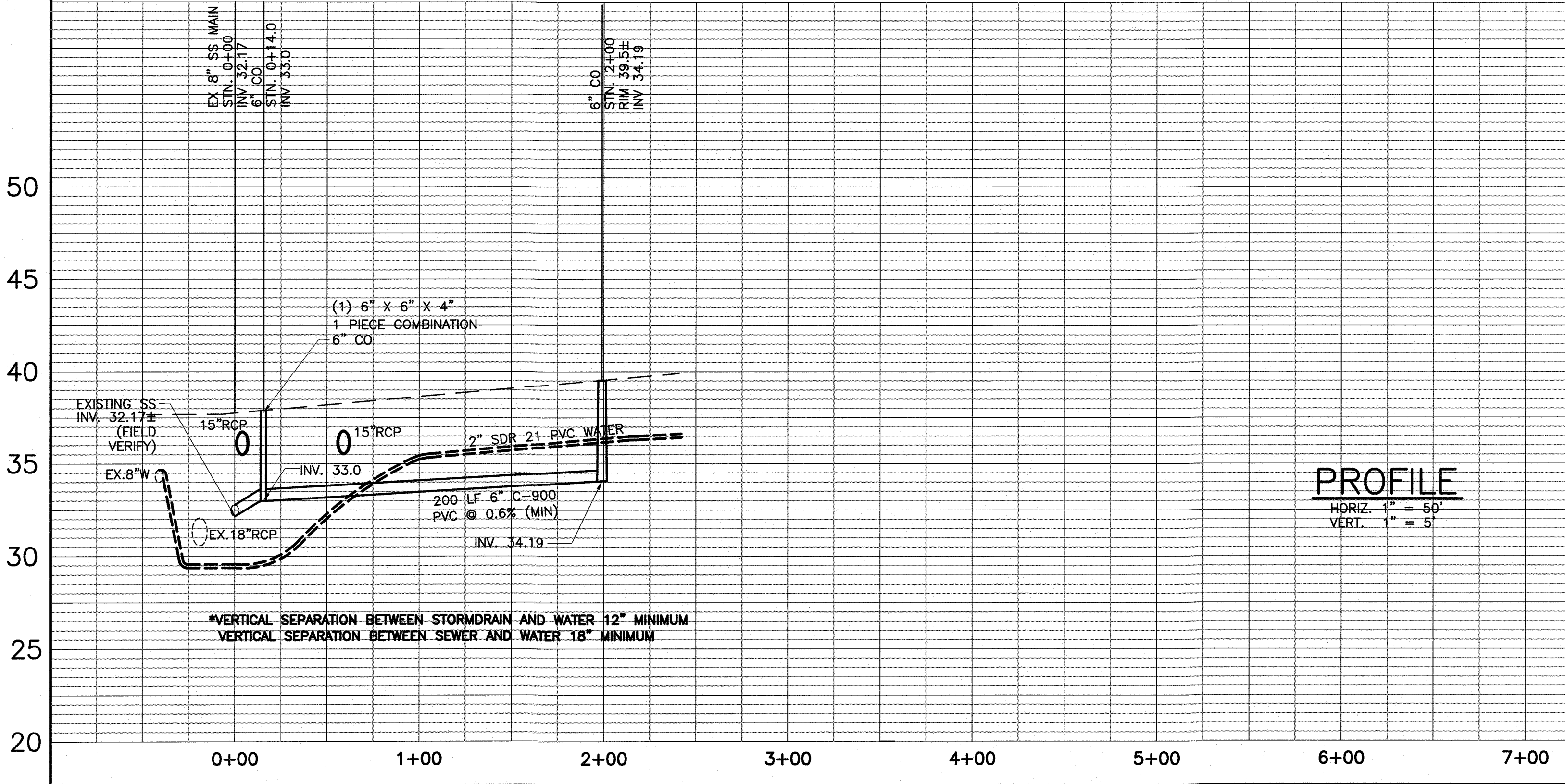
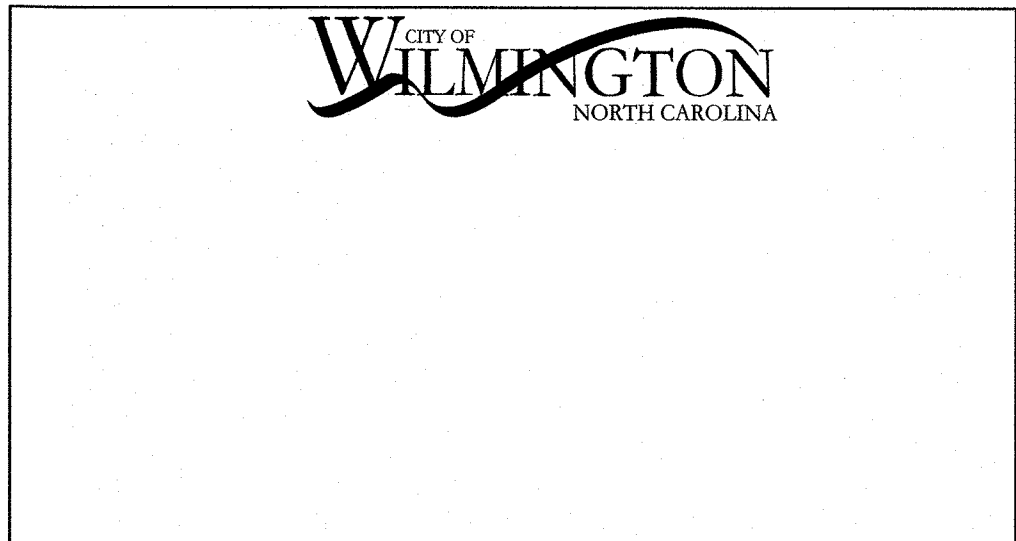
STANDARD NOTES: CPFA DETAIL DATE: 01/02/02
SCALE: NOT TO SCALE
CPFA REV. NO.: 2

CAPE FEAR PUBLIC UTILITY AUTHORITY
225 GOVERNMENT CENTER DRIVE
WILMINGTON, NC 28401
OFFICE: 910-763-5631

DATE: 06-18-20
SCALE: 1" = 50'
1" = 5'

DRAWN: BJH
CHECKED: PGT
PROJECT NO: 19009

SHEET NO: C4
OF: 4 OF 7



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

REV. NO.	DESCRIPTION	DATE
1	ADDED WATER PROFILE, OPEN CUT	08-23-20

PROGRESS DRAWING
DO NOT USE FOR CONSTRUCTION

TRIPP ENGINEERING, P.C.
419 Chestnut Street
Wilmington, North Carolina 28401
Phone 910-763-6100
Fax 910-763-5631
© 2011 TRIPP ENGINEERING, P.C.

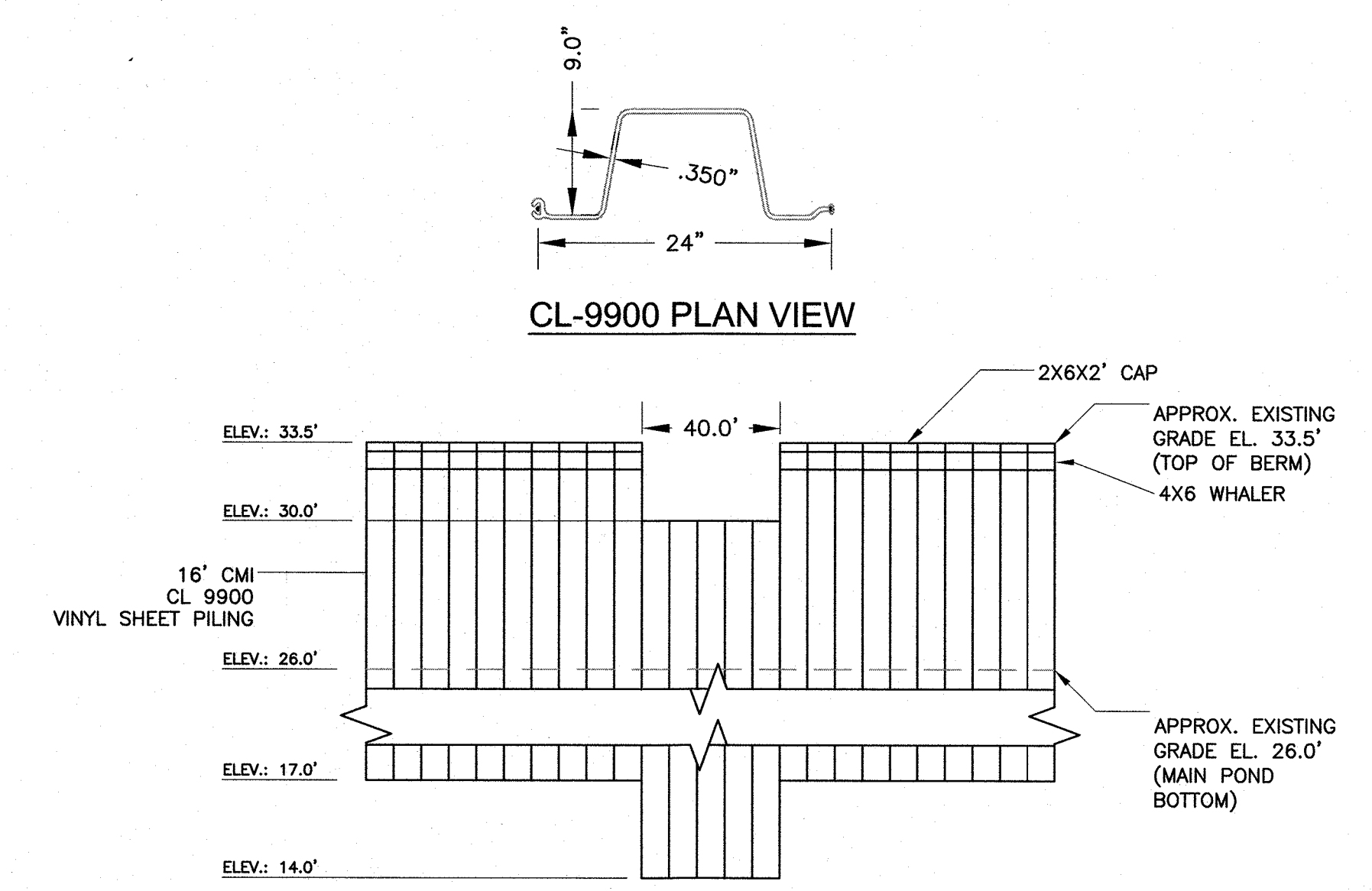
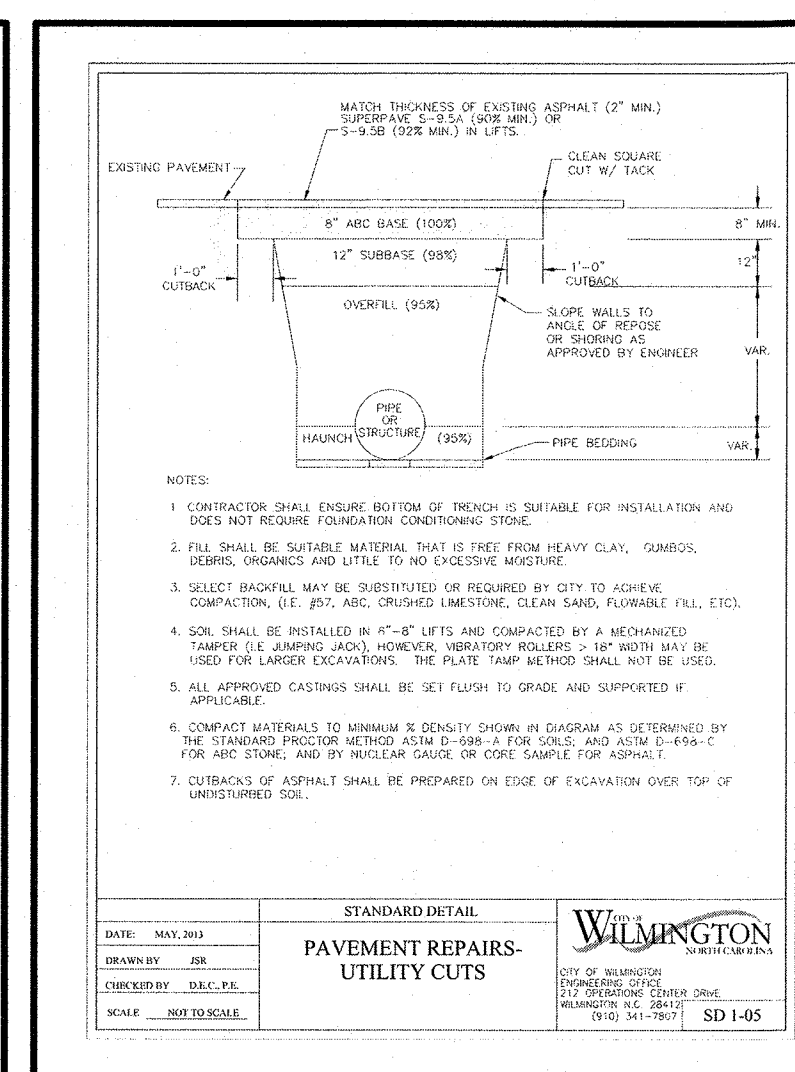
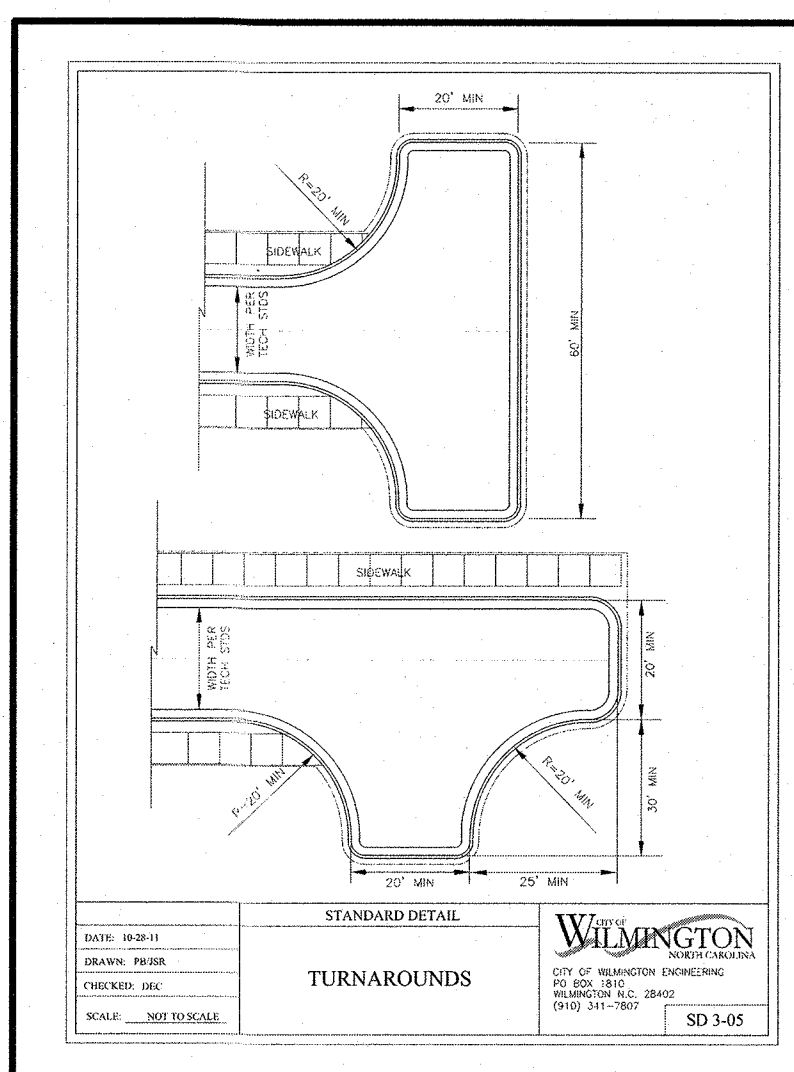
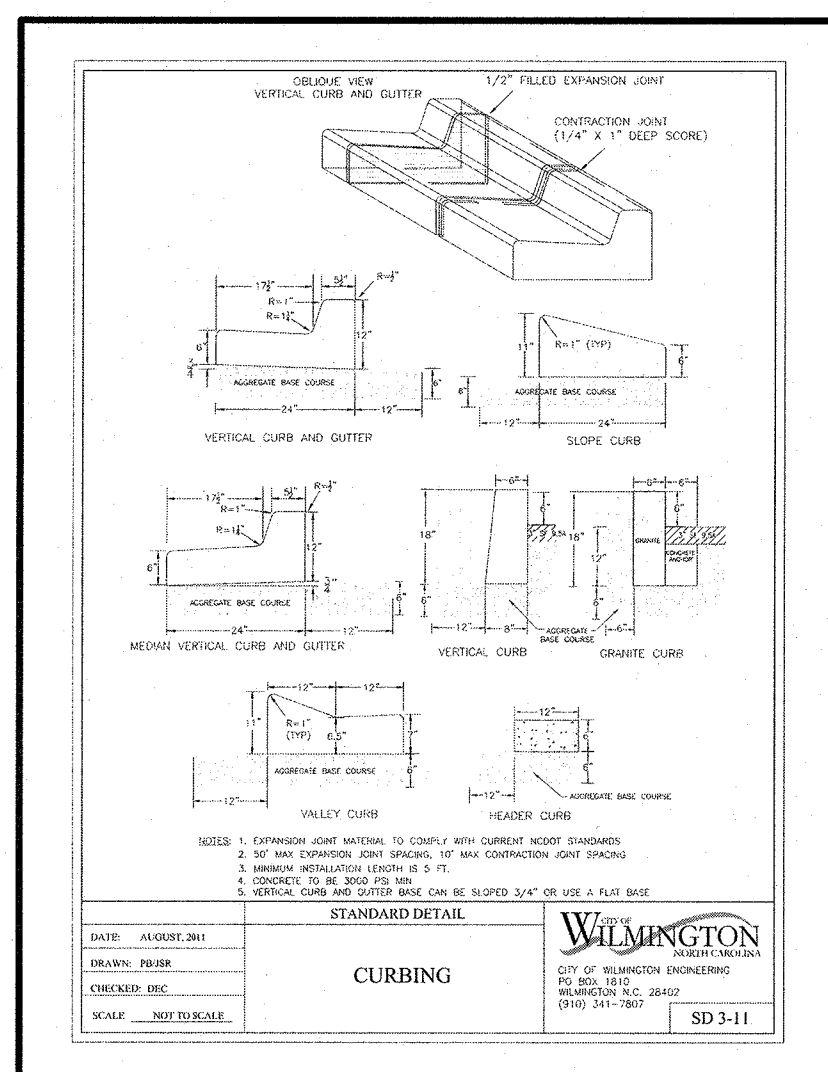
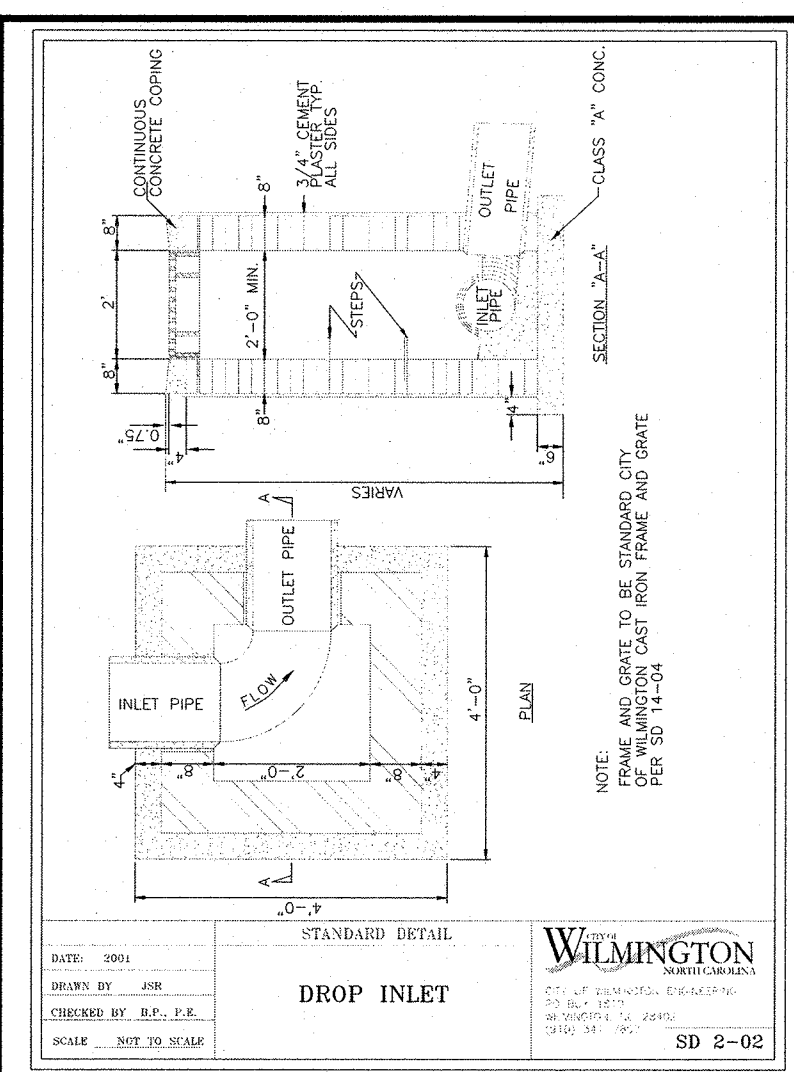
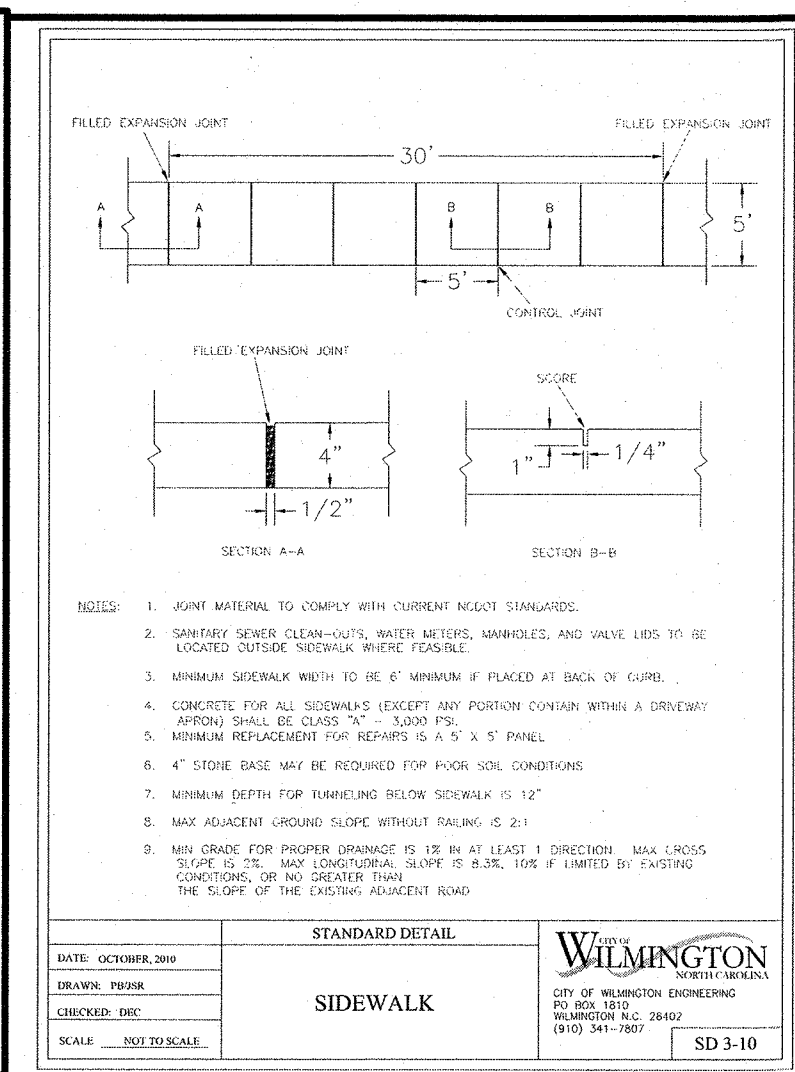
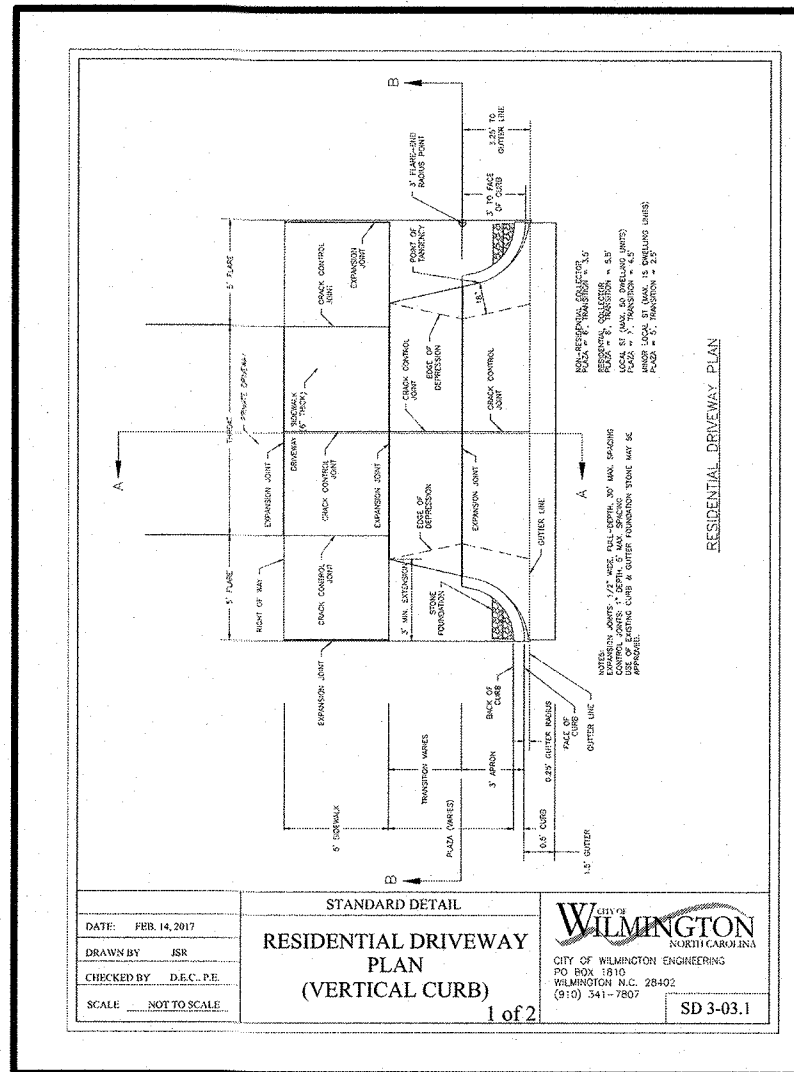
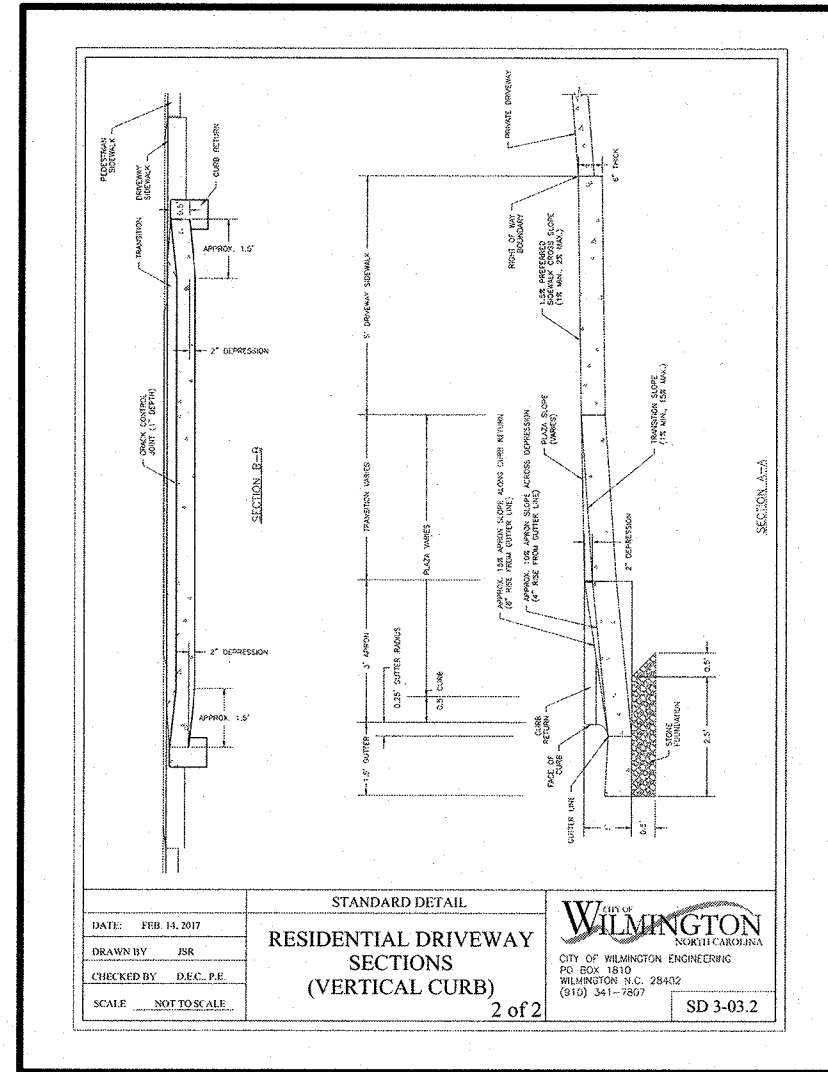
CAPE FEAR PUBLIC UTILITY AUTHORITY
NORTH CAROLINA

DATE: 06-18-20
SCALE: 1" = 50'
1" = 5'

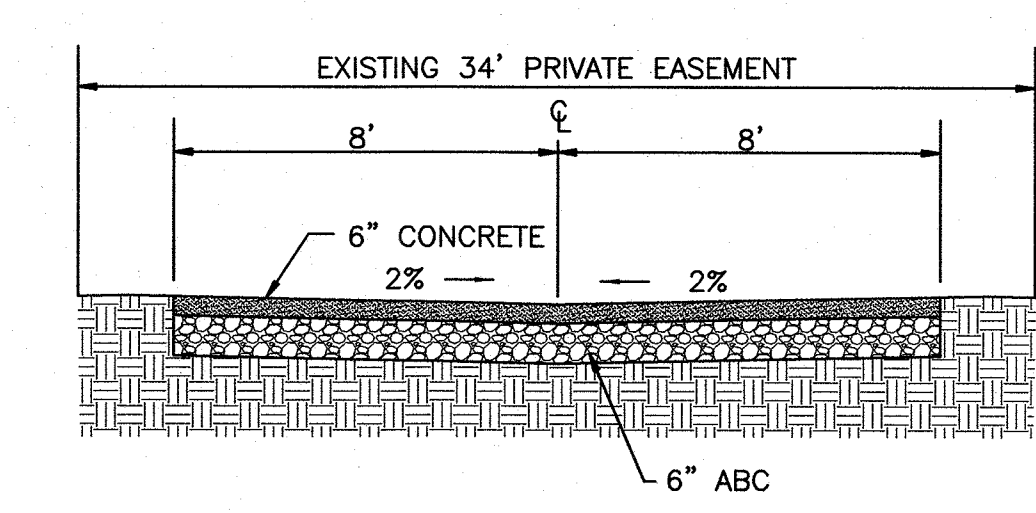
DRAWN: BJH
CHECKED: PGT
PROJECT NO: 19009

SHEET NO: C4
OF: 4 OF 7

REVISIONS		
No./Date	Description	By
28-24	ADDED WATER	EJW
28-24	ADDED POND	BJH
22-18-21	COW COMMENTS	EJW



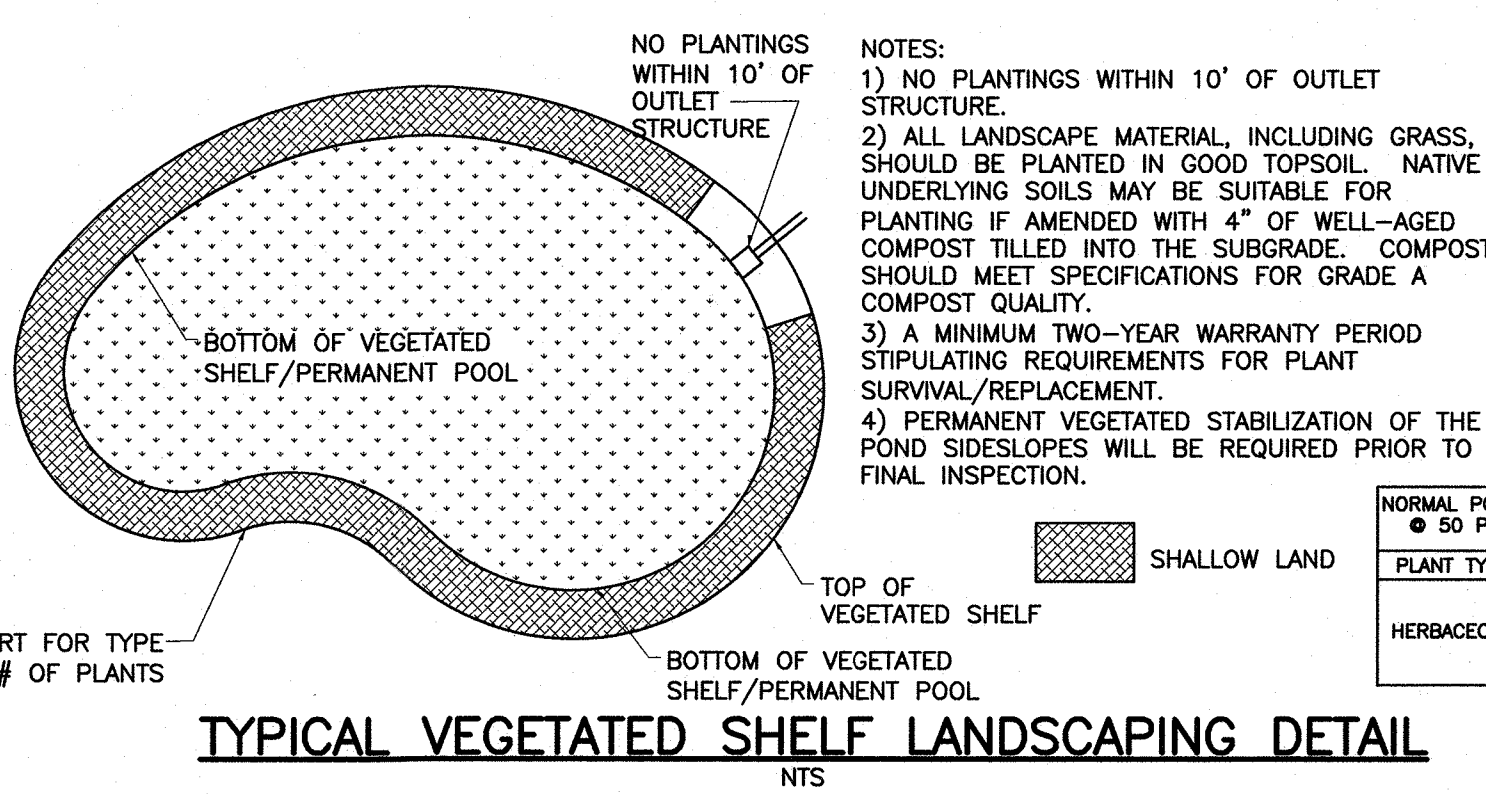
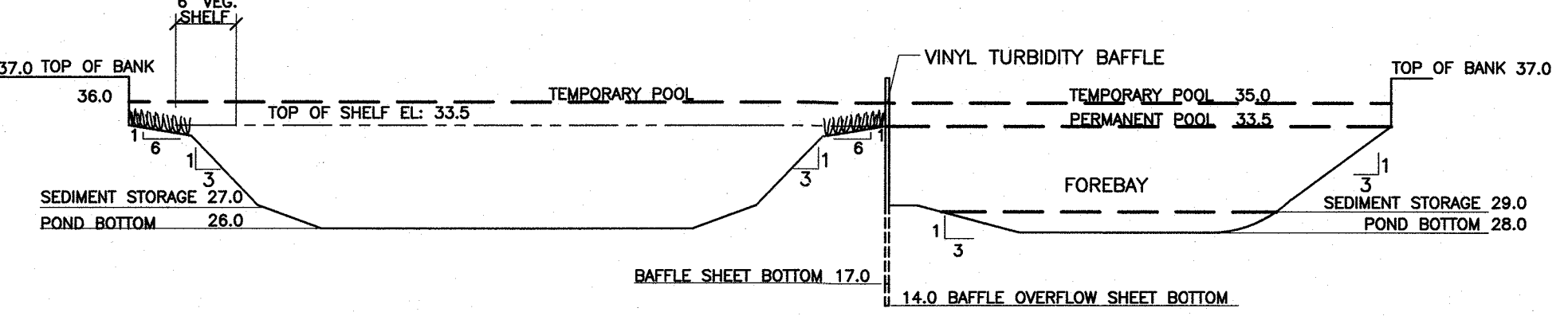
VINYL SHEET PILE FOREBAY WALL
NTS



- NOTES:
1) 400' MAXIMUM LENGTH TO FURTHEST UNIT FROM PUBLIC STREET.
2) SERVES A MAXIMUM OF 4 SINGLE FAMILY OR DUPLEX UNITS.
3) 23' WIDTH REQUIRED AT STREET INTERSECTION.
4) RESIDENTIAL USE ONLY. NOT FOR COMMERCIAL USE.
5) INVERTED CROWN OR SUPER ELEVATED SECTION MAY BE APPROVED BY CITY ENGINEER.

ALLEY SECTION DETAIL
NTS

WET DETENTION BASIN DATA						
BASIN #	TOP OF BANK ELEV.	TEMPORARY POOL ELEV.	PERMANENT POOL ELEV.	EMERGENCY SPILLWAY EL.	BOTTOM MAIN/FOREBAY	SEDIMENT STORAGE MAIN/FOREBAY
1	37.00	35.00	33.50	36.50	26.0/28.0	27.0/29.0

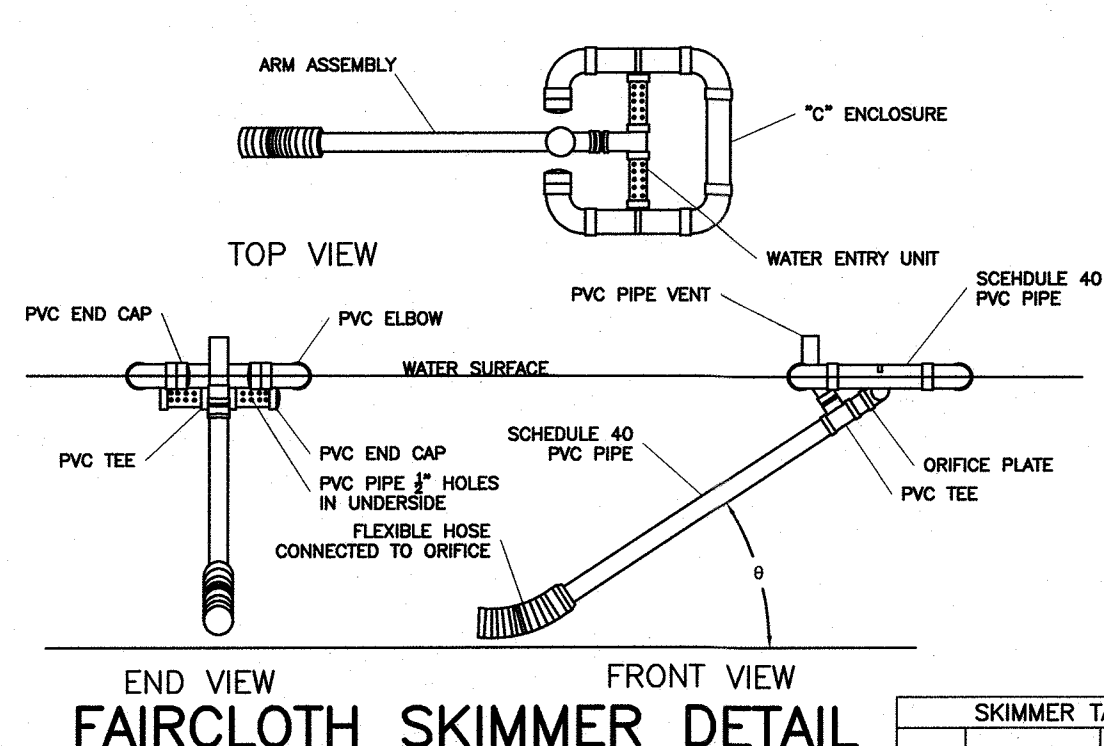


NORMAL POOL TO SHELF TOP = 1,203 SF
50 PLANTS PER 200 SF = 301 PLANTS

PLANT TYPE	QTY	BOTANICAL NAME	COMMON NAME	ROOT	CALIPER
HERBACEOUS	100	HIBISCUS COCCINEUS	SCARLET ROSE	CONT.	4" POT
HERBACEOUS	100	EUPATORIUM	JOE PYE WEED	CONT.	4" POT
HERBACEOUS	101	ASCLEPAS INCARNATA	SWAMP MILKWEED	CONT.	4" POT

- * POND SLOPE TO BE SEEDED IN ACCORDANCE TO SEEDING SPECIFICATIONS
* 6:1 VEGETATED SHELF TO BE PLANTED WITH WETLAND SPECIES I.E. PICKEREL WEED, DUCK POTATO, SWAMP ROSE, BLUE FLAG AND CARDINAL FLOWER
* A PUMP WILL BE PROVIDED TO DRAIN THE BASIN FOR MAINTENANCE AND EMERGENCIES

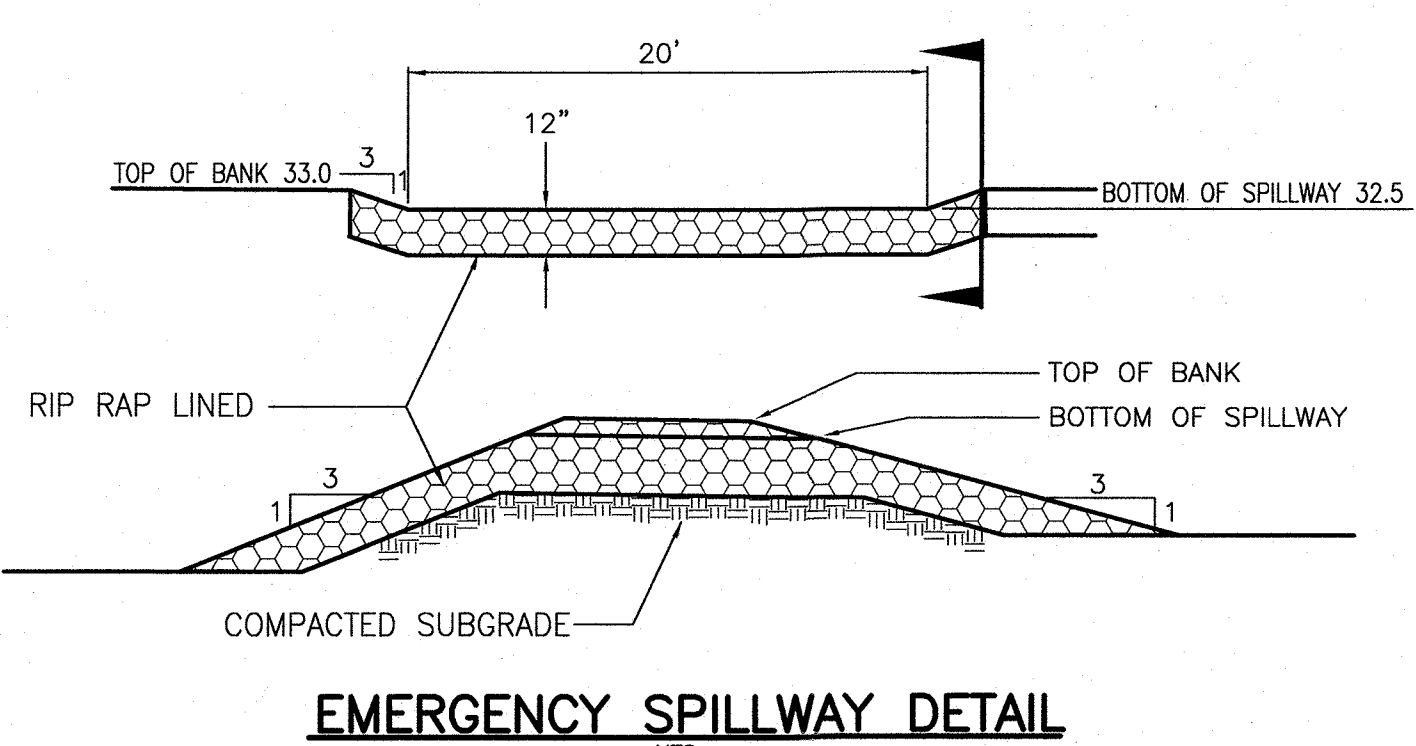
WET DETENTION BASIN & FOREBAY SECTION
NTS



SKIMMER TABLE

No.	SKIMMER SIZE	ORIFICE SIZE
1	3"	2.5"

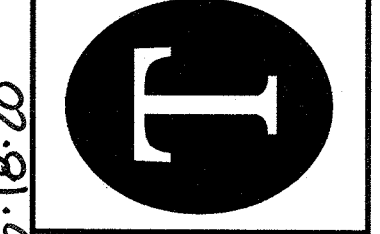
SEE PLAN SHEET FOR LOCATION



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

DETAILS AND NOTES
WOODLAND PARK SUBDIVISION
WILMINGTON, NORTH CAROLINA

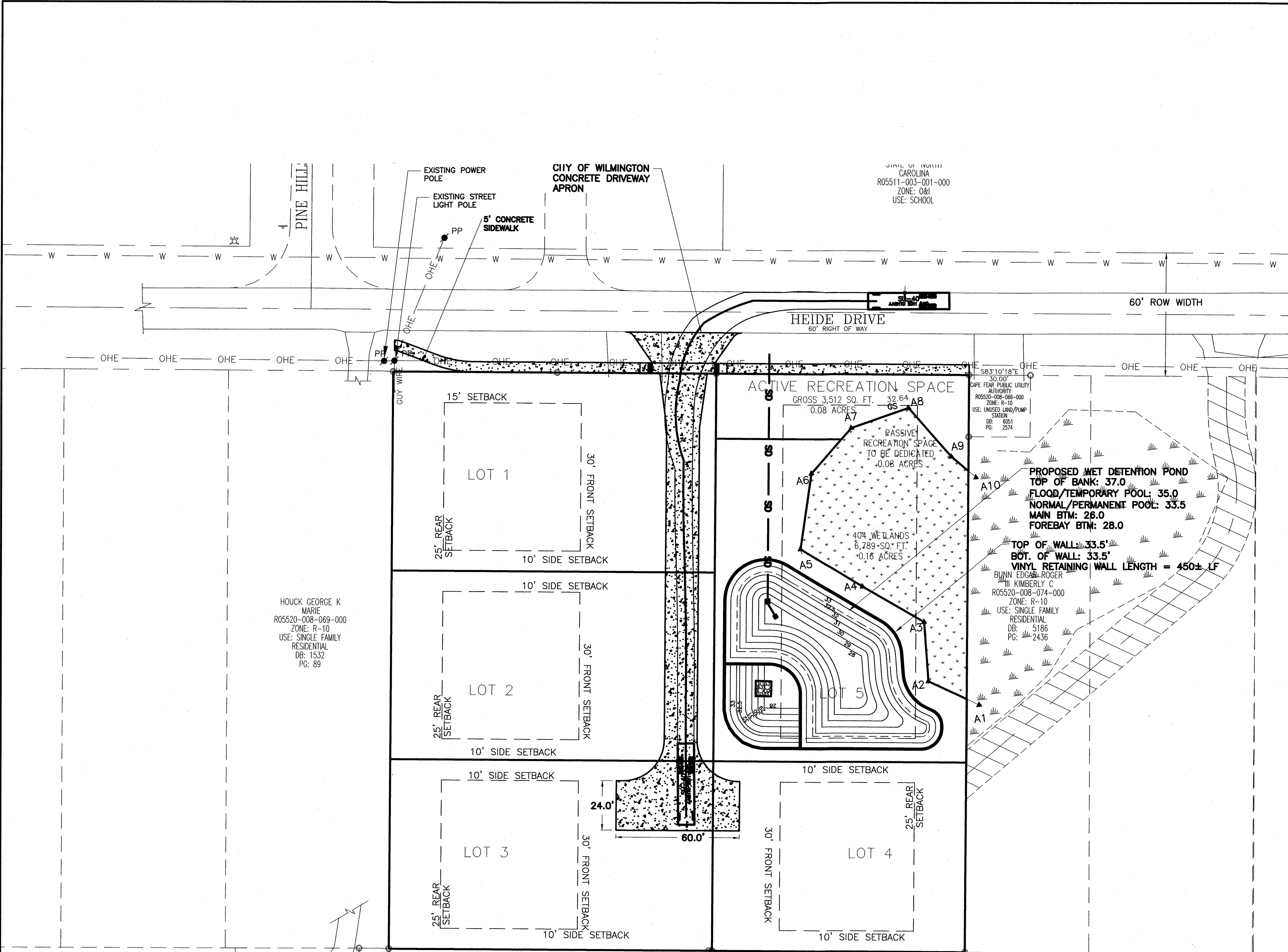
TRIPP ENGINEERING, P.C.
419 Chestnut Street
Wilmington, North Carolina 28401
Phone 910-763-5100
Fax 910-763-5631
© TRIPP ENGINEERING, P.C. 2017



PROGRESS DRAWING
DO NOT USE FOR CONSTRUCTION

DATE 06-18-20
DESIGN PGT
DRAWN BJH

C6
SHEET 6 OF 7
19009



NOTES:

ZONING

- 1) TOPOGRAPHY AND TREE SURVEY COMPLETED BY DANFORD AND ASSOC.
- 2) PERMITTING OF SIGNAGE IS A SEPARATE PROCESS. CITY OF WILMINGTON WILL NOT ALLOW OBSTRUCTIONS WITHIN THE RIGHT-OF-WAY.
- 3) CONTRACTOR SHALL FIELD VERIFY SIZE, MATERIAL, INVERTS AND LOCATION OF ALL EXISTING UTILITIES PRIOR TO INSTALLATION OF PROPOSED CONNECTIONS.
- 4) EXISTING EASEMENTS AS SHOWN, PROPOSED EASEMENTS AS SHOWN.
- 5) CONTRACTOR SHALL MAINTAIN ALL-WEATHER ACCESS FOR EMERGENCY VEHICLES AT ALL TIMES DURING CONSTRUCTION.
- 6) 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.

SOLID WASTE

- 1) SITE TO USE ROLL OUT CARTS.

TRAFFIC

- 1) ALL PAVEMENT MARKINGS IN PUBLIC RIGHTS-OF-WAY AND FOR DRIVEWAYS ARE TO BE THERMOPLASTIC AND MEET CITY AND/OR NCDOT STANDARDS.
- 2) IT SHALL BE THE RESPONSIBILITY OF THE SUBDIVIDER TO ERECT OFFICIAL STREET NAME SIGNS AT ALL INTERSECTIONS ASSOCIATED WITH THE SUBDIVISION IN ACCORDANCE WITH THE TECHNICAL STANDARDS AND SPECIFICATIONS MANUAL. THE SUBDIVIDER MAY ACQUIRE AND ERECT OFFICIAL STREET NAME SIGNS OR MAY CHOOSE TO CONTRACT WITH THE CITY TO INSTALL THE STREET SIGNS AND THE SUBDIVIDER SHALL PAY THE COST OF SUCH INSTALLATION. CONTACT TRAFFIC ENGINEERING AT 341-7888 TO DISCUSS INSTALLATION OF TRAFFIC AND STREET NAME SIGNS. PROPOSED STREET NAMES MUST BE APPROVED PRIOR TO INSTALLATION OF STREET NAME SIGNS.
- 3) 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.
- 4) CONTACT TRAFFIC ENGINEERING AT 341-7888 TO ENSURE THAT ALL TRAFFIC SIGNALS FACILITIES AND EQUIPMENT ARE SHOWN ON THE PLAN.
- 5) CALL TRAFFIC ENGINEERING AT 341-7888 FORTY-EIGHT HOURS PRIOR TO ANY EXCAVATION IN THE RIGHT-OF-WAY.
- 6) ANY BROKEN OR MISSING SIDEWALK PANELS, DRIVEWAY PANELS AND CURBING WILL BE REPLACED.
- 7) CONTACT TRAFFIC ENGINEERING AT 741-7888 TO DISCUSS STREET LIGHTING OPTIONS.
- 8) ALL TRAFFIC CONTROL SIGNS AND MARKINGS OFF THE RIGHT-OF-WAY ARE TO BE MAINTAINED BY THE PROPERTY OWNER IN ACCORDANCE WITH MUTCD STANDARDS.
- 9) NO ROWS TO BE CLOSED.
- 10) NO STREETS PROPOSED.
- 11) NO OFF SITE PARKING PROPOSED.
- 12) PRIVATE ACCESS EASEMENTS IS PROPOSED.
- 13) TRAFFIC ENGINEERING MUST APPROVE A PAVEMENT MARKING PRIOR TO ACTUAL STRIPING.
- 14) ALL PARKING STALL MARKING AND LANE ARROWS WITHIN THE PARKING AREA SHALL BE WHITE.
- 15) STOP SIGNS AND STREET SIGNS TO REMAIN IN PLACE DURING CONSTRUCTION.
- 16) A UTILITY CUT PERMIT IS REQUIRED FOR EACH OPEN CUT OF A CITY STREET. CONTACT 341-5888 FOR MORE DETAILS. IN CERTAIN CASES AN ENTIRE RESURFACING OF THE AREA BEING OPEN CUT MAY BE REQUIRED.
- 17) A LANDSCAPING PLAN INDICATING THE LOCATION OF REQUIRED STREET TREES SHALL BE SUBMITTED TO THE CITY OF WILMINGTON TRAFFIC ENGINEERING DIVISION AND PARKS AND RECREATION DEPARTMENT FOR REVIEW AND APPROVAL PRIOR TO THE RECORDING OF THE FINAL PLAT. (SD 15-14 CofW TECH STDS)

LANDSCAPING

- 1) A LANDSCAPING PLAN INDICATING THE LOCATION OF REQUIRED STREET TREES SHALL BE SUBMITTED TO THE CITY OF WILMINGTON TRAFFIC ENGINEERING DIVISION AND PARKS AND RECREATION DEPARTMENT FOR REVIEW AND APPROVAL PRIOR TO THE RECORDING OF THE FINAL PLAT.
- 2) NO OBSTRUCTIONS ARE PERMITTED IN THE SPACE BETWEEN THIRTY (30) INCHES AND TEN (10) FEET ABOVE THE GROUND WITHIN THE TRIANGULAR SITE DISTANCE.
- 3) 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.
- 4) 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.
- 5) 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 INSTRUCTIONS ON TREE PROTECTION METHODS.

CEPFA

- 1) WATER AND SEWER SERVICE SHALL MEET CAPE FEAR PUBLIC UTILITY AUTHORITY (CFPUA) DETAILS AND SPECIFICATIONS.
- 2) PROJECT SHALL COMPLY WITH THE CFPUA CROSS CONNECTION CONTROL REQUIREMENTS. WATER METER(S) CANNOT BE RELEASED UNTIL ALL REQUIREMENTS ARE MET AND THE STATE HAS GIVEN THEIR FINAL APPROVAL.
- 3) 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 DEVELOPERS SIDE OF THE WATER METER BOX.
- 4) ANY IRRIGATION SYSTEM SUPPLIED BY CFPUA WATER SHALL COMPLY WITH THE CFPUA'S CONNECTION CONTROL REGULATION. CALL 332-6419 FOR INFORMATION.
- 5) ANY BACKFLOW PREVENTION DEVICES REQUIRED BY CFPUA WILL NEED TO BE ON THE LIST OF APPROVED DEVICES FOR USFCOCHR OR ASSE.
- 6) PUBLIC WATER AND SEWER EXIST WITHIN WRIGHTSVILLE AVE. R/W. NO RECORDS OF INDIVIDUAL EASEMENTS EXIST.
- 7) CONTACT THE NORTH CAROLINA ONE CALL CENTER AT 1-800-632-4949 PRIOR TO DOING ANY DIGGING, CLEARING OR GRADING.
- 8) ANY IRRIGATION SYSTEM SHALL BE EQUIPPED WITH A RAIN AND FREEZER SENSOR.
- 9) CONTRACTOR TO FIELD VERIFY EXISTING WATER AND SEWER SERVICE LOCATIONS, SIZES AND MATERIALS PRIOR TO CONSTRUCTION. ENGINEER TO BE NOTIFIED OF ANY CONFLICTS.

DRAINAGE

- 1) INVERTED CROWN TO DROP INLETS TO OPEN GRASS SWALE TO SOUTHEAST.

FIRE AND LIFE SAFETY

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

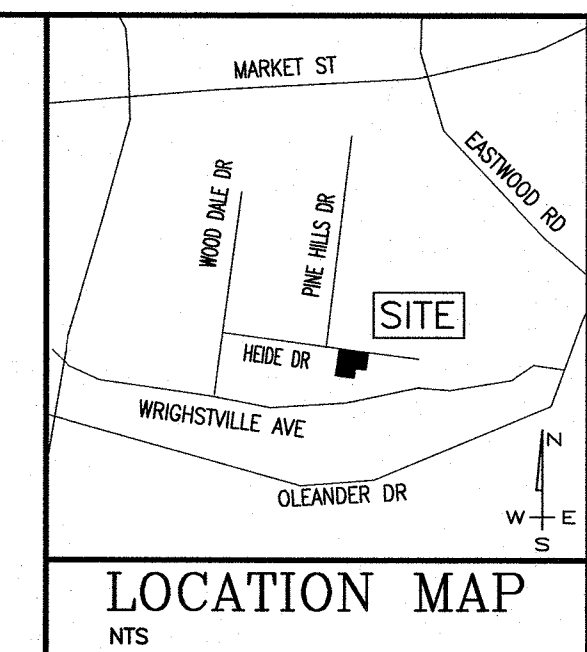
HOUCK GEORGE K
MARIE
R05520-008-069-000
ZONE: R-10
USE: SINGLE FAMILY
RESIDENTIAL
DB: 1532
PG: 89

BENNETT RESIDENTIAL
PROP LLC
R05520-008-025-000
ZONE: R-10
USE: SINGLE FAMILY
RESIDENTIAL

STW PROPERTIES LLC
R05520-008-026-000
ZONE: R-10
USE: UNUSED LAND
DB: 1651
PG: 158

SNEEDEN DAVID GRAY
JR
R05520-008-040-000
ZONE: R-10
USE: SINGLE FAMILY
RESIDENTIAL
DB: 5489

PROPOSED WET DETENTION POND
TOP OF BANK: 37.0
FLOOD/TEMPORARY POOL: 35.0
NORMAL/PERMANENT POOL: 33.5
MAIN BTM: 26.0
FOREBAY BTM: 28.0
TOP OF WALL: 33.5
BOT. OF WALL: 33.5
VINYL RETAINING WALL LENGTH = 450± LF



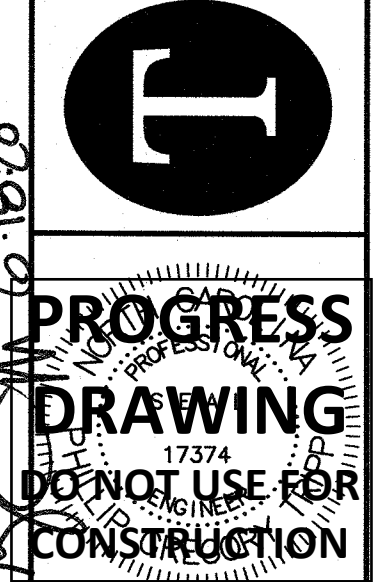
REVISIONS		
No./Date	Description	By

SITE DATA:

PIN NUMBERS	RID: R05520-008-068-000 RID: R05520-008-067-000
PROJECT OWNER	STW PROPERTIES, LLC
PROPERTY ADDRESS	5030 HEIDE DR. 5032 HEIDE DR.
TRACT AREA	78,457 SF (1.80 Ac)
ZONING DISTRICT	R-10
AREA NOT IN A FEMA 100-YEAR FLOOD ZONE	
CAMA LAND USE	URBAN
PROPOSED ZONING	R-10
PROPOSED USE SQUARE FOOTAGE(S) OF USE(S)	N/A
NUMBER OF UNITS/BEDROOMS	8/20
BUILDING CONSTRUCTION TYPE	TBD
BUILDING LOT COVERAGE PERCENTAGE	
LOT 1	16%
LOT 2	16%
LOT 3	16%
LOT 4	21%
BUILDING HEIGHT / # OF STORIES	1
SF PER FLOOR	2,850 SF
BUILDING SETBACKS - REQUIRED AND PROPOSED	
	REQUIRED
	FRONT: 30 FT
	SIDE: 10
	REAR: 25
	PROPOSED
	FRONT: 30 FT
	SIDE: 10
	REAR: 25
PARKING SPACES	N/A
EXISTING IMPERVIOUS AREA	0 SF
PROPOSED ON SITE IMPERVIOUS AREA	
LOTS	24,760 SF
ACCESS ROAD	4,920 SF
SIDEWALK	2,020 SF
FUTURE	1,225 SF
TOTAL	32,925 SF
	0.76 AC (42%) SF
PROPOSED OFF SITE IMPERVIOUS CONCRETE	2,013 SF
	.05 AC
DISTURBED AREA	92,898 SF (2.13 AC)

AUTOTURN - COMMERCIAL TRUCK
WOODLAND PARK SUBDIVISION
 WILMINGTON, NORTH CAROLINA

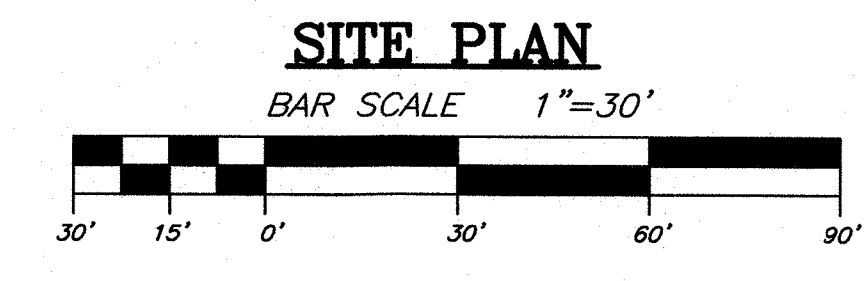
TRIPP ENGINEERING, P.C.
 419 Chestnut Street
 Wilmington, North Carolina 28401
 Phone 910-763-5100
 Fax 910-763-5661
 © 1998-2019 Tripp Engineering, P.C.



Approved Construction Plan	
Name	Date
Planning	
Traffic	
Fire	

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.



DATE	06-18-20
DESIGN	PGT
DRAWN	BJH
AT1	
SHEET 1 OF 1	
19009	