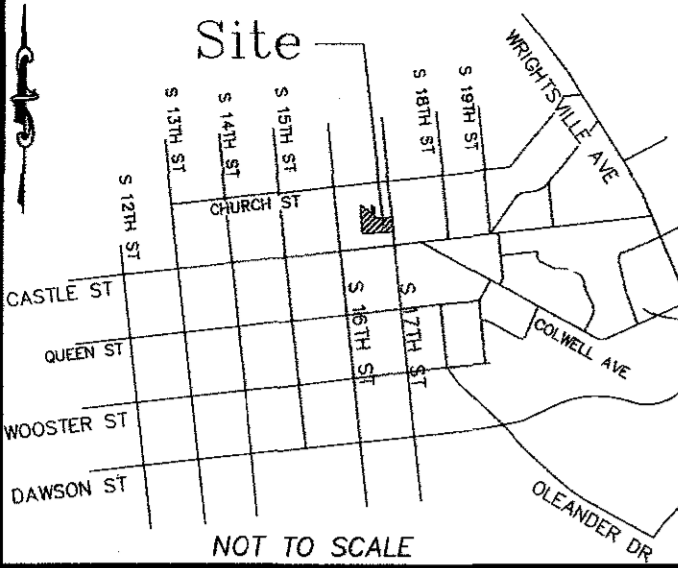


LOCATION MAP



CONSTRUCTION DRAWINGS for STUDIO 17 APARTMENTS

LOCATED IN CITY OF WILMINGTON
NEW HANOVER COUNTY, NORTH CAROLINA

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: 08/08/2018 Permit # 2018 033
Signed: *[Signature]* for RAC

Approved Construction Plan
Name: _____ Date: _____
Planning: *YMC 8/16/2018*
Traffic: *[Signature]* 8-6-18
Fire: *[Signature]* 8-6-18

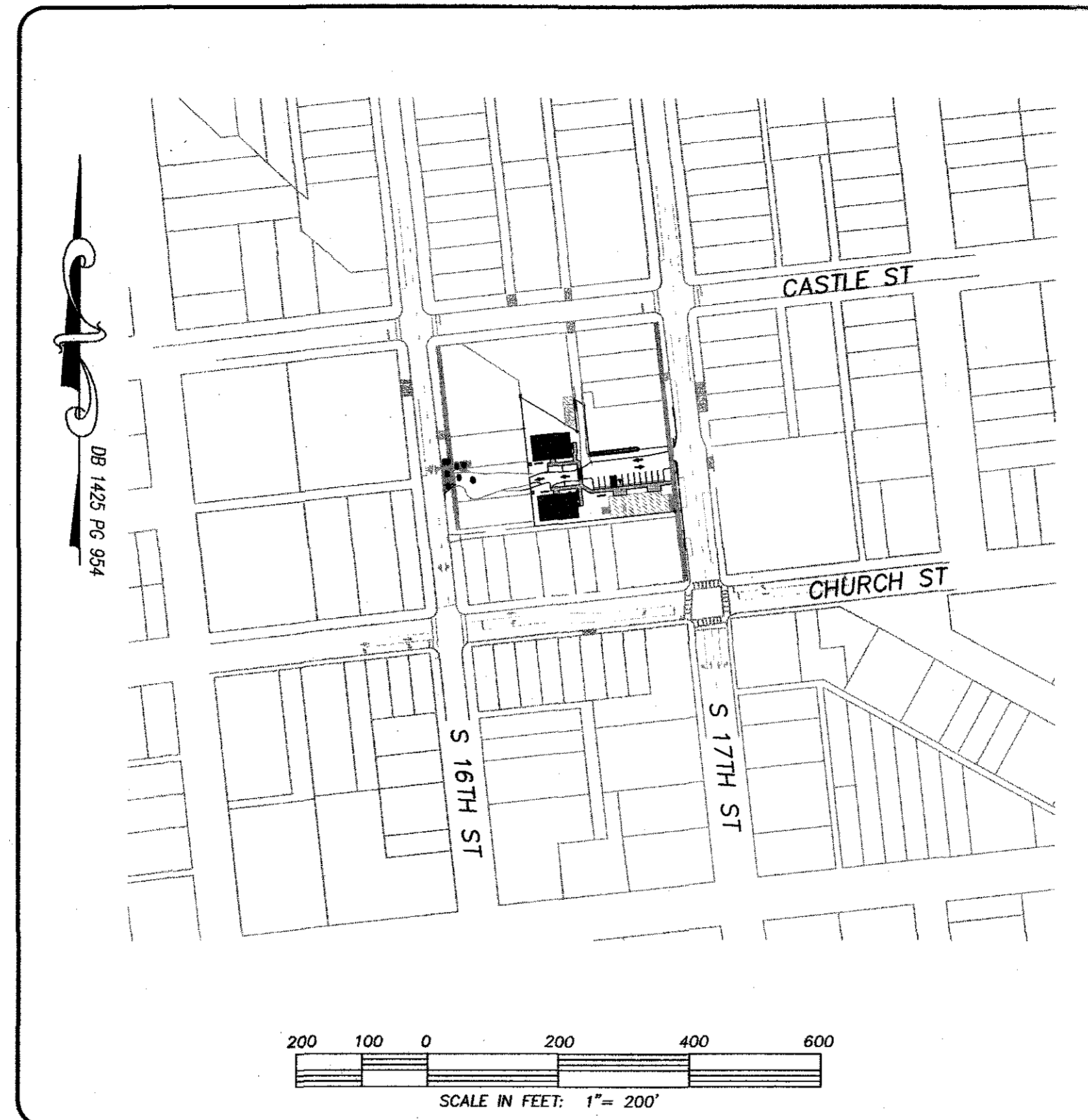
CSD ENGINEERING
LICENSE # C-2710
ENGINEERING
LAND PLANNING
COMMERCIAL / RESIDENTIAL
P.O. BOX 4041
WILMINGTON, NC 28406
(910) 791-4441

GENERAL NOTES:

- NEW HANOVER COUNTY PARCEL NUMBERS: PD = R05407-029-012-000
- TOTAL PROJECT AREA: 28,125 SF (0.65 AC.)
- EXISTING ZONING DISTRICT: UMX
- LAND CLASSIFICATION: URBAN
- THIS SITE IS LOCATED WITHIN ZONE "X" ACCORDING TO FEMA FIRM COMMUNITY PANEL NUMBER 3720312700A, EFFECTIVE DATE 4/3/06
- SITE ADDRESS: 514 S. 17TH STREET
- EXISTING IMPERVIOUS ONSITE = 11,180 SF
- ASBUILT, BOUNDARY AND TOPOGRAPHIC SURVEY PERFORMED AND PROVIDED TO CSD ENGINEERING BY CAPE FEAR SURVEYING, VERTICAL DATUM = 88
- STORMWATER DRAINS TO BURNT MILL CREEK, C/SW 18-74-83-2

WATER & SEWER USAGE NOTES:

CURRENT WATER USAGE 50 GPD PROPOSED WATER USAGE 7,730 GPD
CURRENT SEWER USAGE 50 GPD PROPOSED SEWER USAGE 7,730 GPD
WATER - (32) - 1 BEDROOM X 240 GPD = 7,680 GPD
RETAIL - 2 EMPLOYEES = 50 GPD
SEWER - (32) - 1 BEDROOM X 240 GPD = 7,680 GPD
RETAIL - 2 EMPLOYEES = 50 GPD



WATER (PUBLIC)		
SIZE	6"	4"
TYPE	C-900	C-900
LF	8	8

WATER (PRIVATE)			
SIZE	6"	4"	2"
TYPE	C-900	C-900	SDR-21
LF	135	132	235

SEWER (PRIVATE)		
SIZE	6"	6"
TYPE	C-900	DIP
LF	154	20

INDEX TO DRAWINGS

SHEET No.	DESCRIPTION	DRAWING No.
1 OF 11	COVER SHEET	CD_COVER
2 OF 11	EXISTING BOUNDARY AND TOPOGRAPHY, ADJACENT TRAFFIC	CD_EX-COND
3 OF 11	SITE PLAN	SITE_PLAN
4 OF 11	CITY OF WILMINGTON CONSTRUCTION DETAILS	SP_DET-1
5 OF 11	CITY OF WILMINGTON CONSTRUCTION DETAILS	SP_DET-2
6 OF 11	UTILITY PLAN	UP
7 OF 11	GRADING PLAN	GRADING
8 OF 11	CFPUA STANDARD WATER DETAILS	WSD-1
9 OF 11	CFPUA STANDARD WATER DETAILS	WSD-2
10 OF 11	CFPUA STANDARD SEWER DETAILS	SSD-1
11 OF 11	CFPUA STANDARD SEWER DETAILS	SSD-2
LP1 OF LP1	LANDSCAPING PLAN	LP
1 OF 3	NCDOT ENCROACHMENT PLAN	DOT_ENCR
2 OF 3	NCDOT TRAFFIC CONTROL PLAN	DOT_TOP
3 OF 3	NCDOT STANDARD DETAILS	DOT_DET

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- NOTES:**
- ASBUILT, BOUNDARY AND TOPOGRAPHIC SURVEY PERFORMED AND PROVIDED TO CSD ENGINEERING BY CAPE FEAR SURVEYING: 1 NORTH 6TH STREET WILMINGTON, NC 28401, 910-762-9496 FIRM #C-3199
 - THIS MAP IS NOT FOR CONVEYANCE, RECORDATION, OR SALES.
 - THIS PROPERTY IS LOCATED WITHIN ZONE "X" ACCORDING TO THE FEMA FLOOD INSURANCE RATE MAP, 3720312700A, EFFECTIVE DATE 4/3/06
 - THIS PROPERTY IS ZONED UMX
 - CFPUA WATER
 - CFPUA SEWER
 - ALL CONSTRUCTION TO CONFORM TO NEW HANOVER COUNTY STANDARDS AND APPLICABLE STATE & LOCAL CODES.
 - CONTRACTOR TO COORDINATE ANY REQUIRED TRAFFIC CONTROL WITH CITY OF WILMINGTON AND OR NCDOT.
 - CARE SHALL BE TAKEN DURING FINAL GRADING TO ENSURE POSITIVE DRAINAGE AWAY FROM BUILDINGS AND TO RECEIVING STRUCTURES. ROOF DRAIN DOWNSPOUTS TO BE CONNECTED TO STORM DRAINAGE STUBOUTS OR DIRECTED TO STREET/PARKING AREAS.
 - CONTRACTOR IS RESPONSIBLE FOR COORDINATION OF ANY RELOCATIONS, RE-ALIGNMENTS, DISCONNECTIONS OR CONNECTIONS OF EXISTING UTILITIES WITH APPLICABLE AUTHORITIES.
 - CLEARING AND GRUBBING OF SITE TO INCLUDE REMOVAL OF EXISTING CURB, ASPHALT, INLETS, AND ANY OTHER STRUCTURES INCLUDING TREES, STUMPS AND DEBRIS EXISTING ON SITE. TREES NOT REQUIRED TO BE CLEARED FOR CONSTRUCTION SHALL REMAIN UNLESS OTHERWISE DIRECTED.
 - INFORMATION CONCERNING UNDERGROUND UTILITIES WAS OBTAINED FROM AVAILABLE RECORDS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE EXACT ELEVATIONS AND LOCATIONS OF ALL EXISTING UTILITIES AT ALL CROSSINGS PRIOR TO COMMENCING TRENCH EXCAVATION. IF ACTUAL CLEARANCES ARE LESS THAN INDICATED ON PLAN, THE CONTRACTOR SHALL CONTACT THE DESIGN ENGINEER BEFORE PROCEEDING WITH CONSTRUCTION. ANY CONDITION DISCOVERED OR EXISTING THAT WOULD NECESSITATE A MODIFICATION OF THESE PLANS SHALL BE BROUGHT TO THE ATTENTION OF THE DESIGN ENGINEER BEFORE PROCEEDING WITH CONSTRUCTION.
 - NO CONSTRUCTION IS TO BEGIN BEFORE LOCATION OF EXISTING UTILITIES HAS BEEN DETERMINED. CALL "NC ONE-CALL" AT LEAST 48 HOURS BEFORE COMMENCING CONSTRUCTION.
 - CONTRACTOR SHALL ADJUST ALL MANHOLES, VALVE & CURB BOXES TO FINAL GRADE UPON COMPLETION OF ALL CONSTRUCTION. ANY BOXES DAMAGED OR OTHERWISE DISTURBED BY THE CONTRACTOR SHALL BE REPAIRED AT THE EXPENSE OF THE CONTRACTOR.
 - THE CONTRACTOR IS RESPONSIBLE FOR CONTROLLING DUST AND EROSION DURING CONSTRUCTION AT HIS EXPENSE. PARKING AREAS SHALL BE WATERED TO CONTROL DUST WHEN ORDERED BY THE ENGINEER.
 - NO GEOTECHNICAL TESTING HAS BEEN PERFORMED ON SITE. NO WARRANTY IS MADE FOR SUITABILITY OF SUBGRADE, AND UNDERCUT AND ANY REQUIRED REPLACEMENT WITH SUITABLE MATERIAL SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
 - CONTRACTOR TO ENSURE THAT PAVEMENT IS PLACED SO AS TO DRAIN POSITIVELY TO THE STREET INLETS AND CATCH BASINS. ALL FUTURE ROOF DRAIN DOWNSPOUTS TO BE DIRECTED TO THE STORM DRAINAGE STUBOUTS.
 - CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL REQUIRED PERMITS.
 - THIS PLAN IS FOR SITE GRADING, UTILITIES, SITING, AND DRAINAGE ONLY. SEE BUILDING PLANS FOR DETAILED HOOKUPS TO BUILDINGS, ETC.
 - CONTRACTOR AND BUILDER ARE RESPONSIBLE FOR COORDINATING FINISHED FLOOR ELEVATION OF ALL BUILDINGS WITH THE OWNER. ELEVATIONS GIVEN ARE MINIMUM GROUND ELEVATIONS AT THE BUILDING SITE AND DO NOT PURPORT TO BE FINISHED FLOOR. MINIMUM RECOMMENDED FF ELEVATIONS SHOWN ON PLANS.
 - AFFECTED NON-MUNICIPAL UTILITIES SHALL BE CONTACTED AND PROVIDED WITH PLANS AND OTHER PERTINENT INFORMATION, WHEN FEASIBLE, TO COORDINATE APPROPRIATE SCHEDULING AND PLACEMENT.
 - EXTREME CARE SHALL BE TAKEN TO ENSURE MINIMUM SEPARATIONS AT ALL UTILITY CROSSINGS.
 - MINIMUM SEPARATION SHALL BE MAINTAINED AS FOLLOWS:
 - HORIZONTAL SEPARATION OF 10 FEET BETWEEN SANITARY SEWER AND WATER MAINS AND STORM SEWER.
 - WHERE VERTICAL CLEARANCE IS LESS THAN 24" BETWEEN SANITARY SEWER AND WATER OR WHERE SEWER LINE CROSSES ABOVE WATER MAIN, BOTH PIPES SHALL BE DUCTILE IRON PIPE FOR A MINIMUM OF 10' EITHER SIDE OF CROSSING.
 - WHERE VERTICAL CLEARANCE IS LESS THAN 24" BETWEEN SANITARY SEWER AND STORM DRAIN, SANITARY SEWER SHALL BE DUCTILE IRON PIPE FOR A MINIMUM OF 10 FEET EITHER SIDE OF CROSSING.
 - WHERE VERTICAL CLEARANCE IS LESS THAN 12" BETWEEN SANITARY SEWER AND STORM DRAIN, SANITARY SEWER SHALL BE DUCTILE IRON PIPE FOR A MINIMUM OF 10' EITHER SIDE OF CROSSING, AND BRIDGING SHALL BE INSTALLED PER APPLICABLE UTILITY AUTHORITY'S DETAILS.
 - IN NO CASE SHALL THERE BE LESS THAN 18" OF SEPARATION BETWEEN OUTSIDE OF WATER MAIN AND OUTSIDE OF SEWER OR STORM DRAINAGE.
 - MINIMUM COVER OF 36" SHALL BE PROVIDED FOR ALL BURIED WATER MAINS AND SANITARY SEWER MAINS.
 - SEE DETAIL SHEETS FOR TYPICAL UTILITIES HOOKUPS.
 - ALL SANITARY SEWER MAINS TO BE 8" UNLESS OTHERWISE INDICATED.
 - ALL WATER MAINS TO BE 8" UNLESS OTHERWISE INDICATED.
 - TWO VALVES ARE REQUIRED AT "T" INTERSECTIONS AND ONE VALVE ON THE WATER LINE TO FIRE HYDRANTS.
 - A BLOW-OFF VALVE IS REQUIRED AT THE TERMINUS OF ALL "DEAD END" WATER LINES.

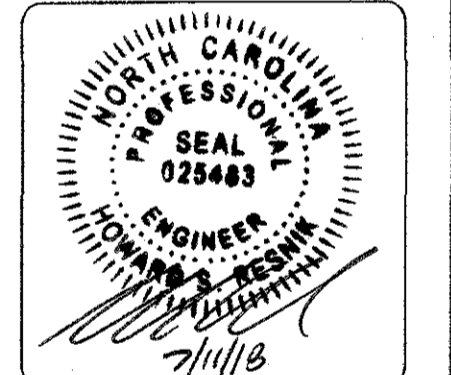
LEGEND

	EXISTING BOUNDARY		EXISTING WATERLINE
	PROPOSED LOTLINE		PROPOSED WATERLINE
	CENTERLINE OF RIGHT OF WAY		EXISTING / PROPOSED STORM SEWER & CATCH BASIN
	CONTOUR LINE & ELEVATION		EXIST. IRON PIPE
	DRAINAGE FLOW		WATER METER SERVICE CONNECTION
	30' DRAINAGE EASEMENT		EXIST. CONCRETE MONUMENT
	PROPOSED DRAINAGE PIPE		GATE VALVE
	PROPOSED SANITARY SEWER & MANHOLE		REDUCER
	EXISTING SANITARY SEWER & MANHOLE		HANDICAP RAMP

OWNER: MOSLEY PARK, LLC
1319 MILITARY CUTOFF
SUITE CC PMB 172
WILMINGTON, NC 28405

COVER SHEET FOR
STUDIO 17 APARTMENTS

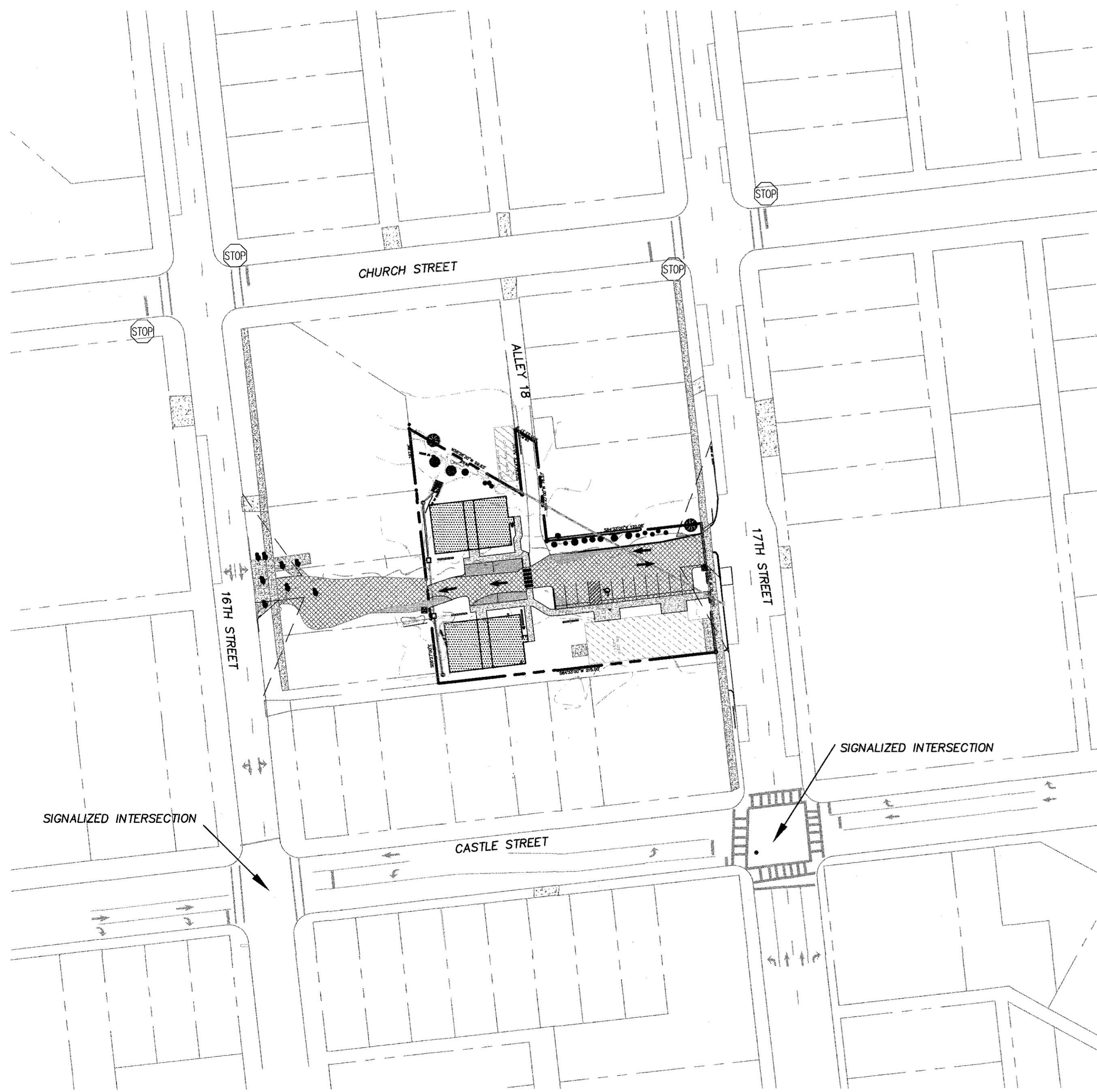
LOCATED IN CITY OF WILMINGTON
NEW HANOVER COUNTY, NORTH CAROLINA
OWNER: MOSLEY PARK, LLC
1319 MILITARY CUTOFF
SUITE CC PMB 172
WILMINGTON, NC 28405



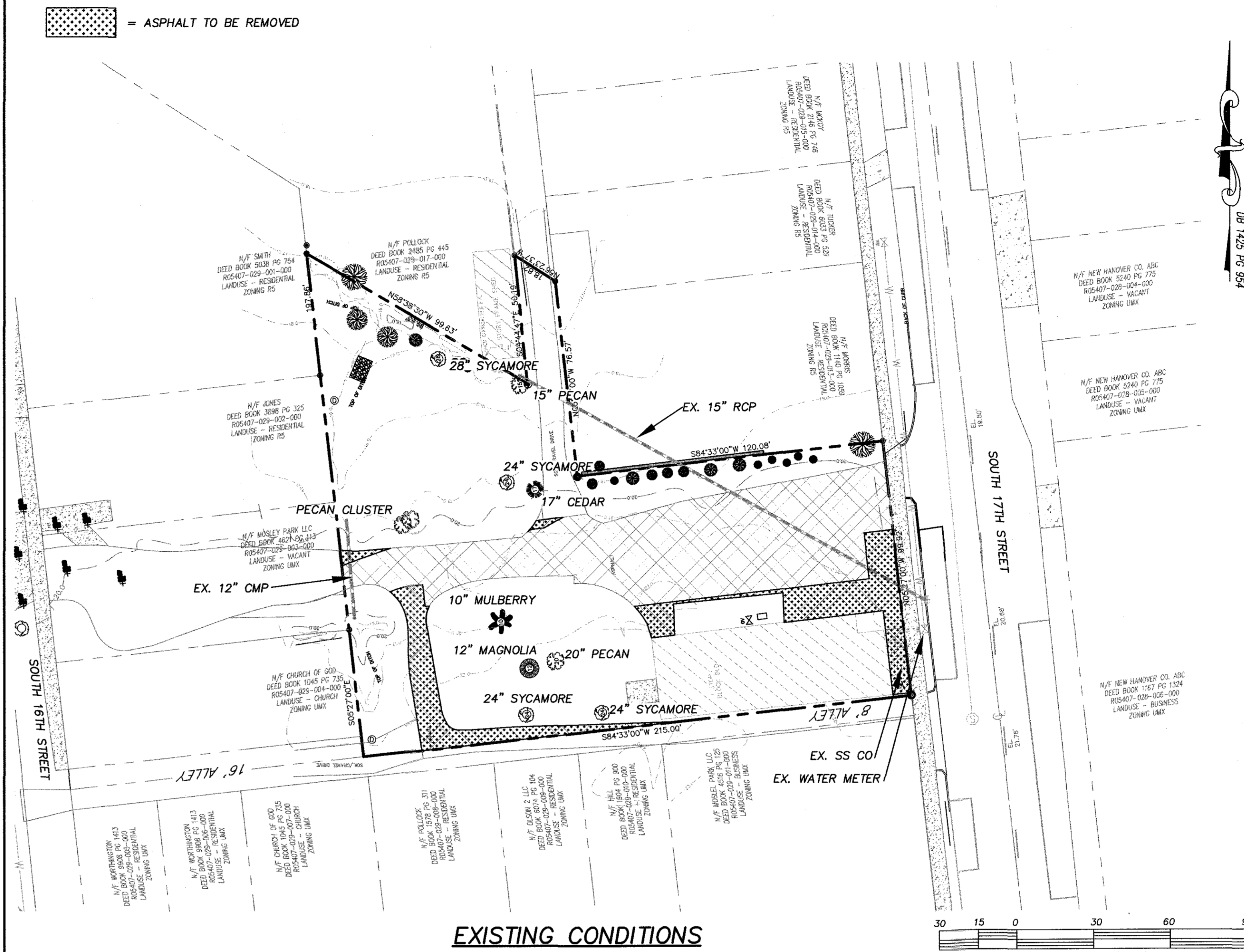
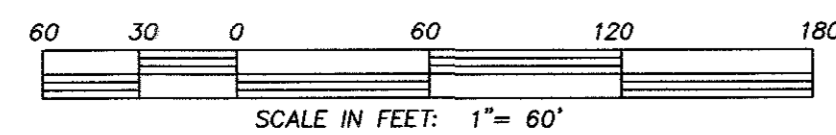
REV. NO.	DATE	BY	REMARKS
1	7-11-18	MRB	ISSUED SHEET MAIN TABLES
2	5-29-18	MRB	REVISED WATER MAIN TABLES
3	5-29-18	MRB	REVISED PER TRC COMMENTS
4	5-29-18	MRB	REVISED PER TRC COMMENTS

DATE: 1-22-18
HORIZ. SCALE: 1" = 200'
VERT. SCALE: N/A
DRAWN BY: MRB
CHECKED BY: HSR
PROJECT NO.: 17-0434
Sheet No. **1** of **11**

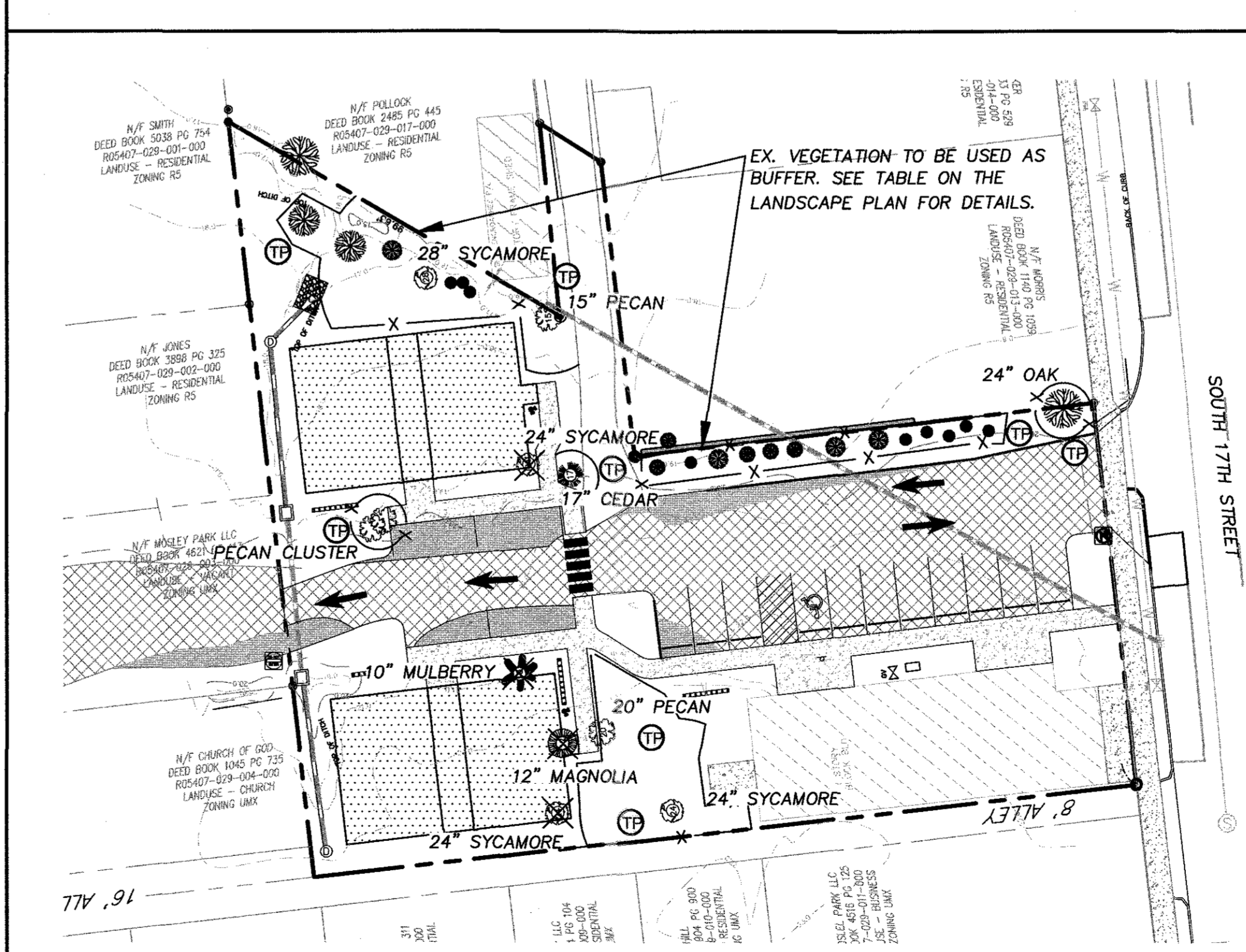
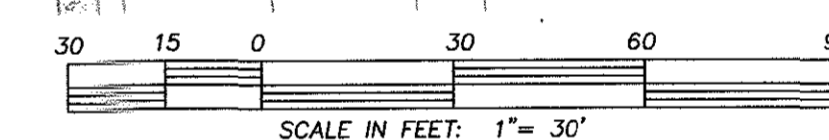
For each open utility cut of City streets, a \$325 permit shall be required from the City prior to occupancy and/or project acceptance.



ADJACENT TRAFFIC PATTERNS



EXISTING CONDITIONS



EXISTING TREES

TREES FOR REMOVAL

24" SYCAMORE
10" MULBERRY
12" MAGNOLIA
24" SYCAMORE

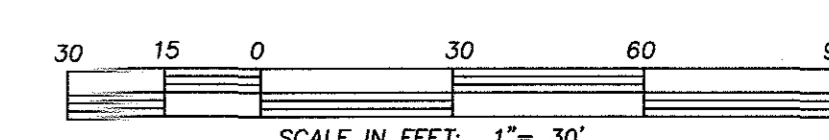
SIGNIFICANT TREES TO BE MITIGATED BY MULTIPLYING TOTAL DBH OF REMOVED SIGNIFICANT TREES BY TWO (2) TIMES THE PERCENTAGE FOR THE TYPE OF TREE AND DIVIDING BY 3.

DESCRIPTION	MITIGATION %	Calculation
24" SYCAMORE	75	(24 x 2 x .75) / 3 = 12
24" SYCAMORE	75	(24 x 2 x .75) / 3 = 12
12" MAGNOLIA	100	(12 x 2 x 1.0) / 3 = 8
10" MULBERRY	25	(10 x 2 x .25) / 3 = 1.6
TOTAL	70"	33.6 TREES

CREDIT FOR PRESERVED TREES

PRESERVED TREES (INCHES CALIPER OR DBH)	CREDIT	NUMBER OF TREES	CREDIT FOR TREES
2-5	1		
6-11	2	1	2
12-17	3	1	3
18-23	4	1	4
>24	DBH/6	1	4
TOTAL			13

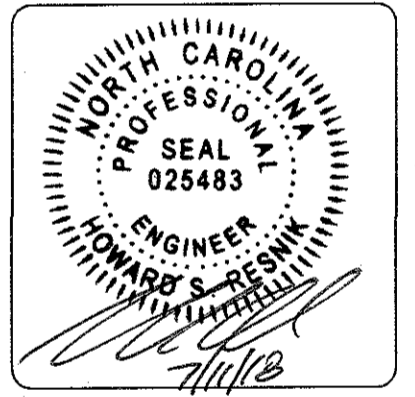
TF = TREE PROTECTION



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EXISTING CONDITIONS
STUDIO 17 APARTMENTS

EXISTING CONDITIONS FOR
STUDIO 17 APARTMENTS
LOCATED IN CITY OF WILMINGTON
NEW HANOVER COUNTY, NORTH CAROLINA
OWNER: MOSLEY PARK, LLC
1319 MILITARY CUTOFF
SUITE CC PMB 172
WILMINGTON, NC 28405



REV. NO.	DATE	BY	REMARKS
1			
2			
3			
4			
5			

DATE: 1-22-18
HORZ. SCALE: AS NOTED
VERT. SCALE: N/A
DRAWN BY: MRB
CHECKED BY: HSR
PROJECT NO.: 16-0380

SITE & BUILDING DATA:

TOTAL LOT AREA = 28,125 SF (0.65 AC)
 PROPERTY ADDRESS IS 514 S 17TH STREET
 PID = R05407-029-012-000
 EXISTING INSITE DATA:
 EXISTING BUILDINGS ON SITE = 2,878 SF (FOOTPRINT)
 EXISTING ASPHALT = 4,302 SF
 TOTAL = 11,180 SF
 EXISTING 40K IMPERVIOUS
 PROPOSED IMPERVIOUS
 PROPOSED BUILDINGS = 4,499 SF (FOOTPRINT)
 PROPOSED ASPHALT & CURBING = 1,241 SF
 PROPOSED SIDEWALKS = 1,946 SF
 TOTAL = 7,686 SF
 EXISTING IMPERVIOUS TO REMAIN
 EXISTING BUILDING = 2,878 SF (FOOTPRINT)
 EXISTING ASPHALT = 5,977 SF
 TOTAL = 8,855 SF

EXISTING ONSITE IMPERVIOUS TO BE REMOVED = 2,325 SF
 OFFSITE IMPERVIOUS TO BE ADDED = 372 SF
 SOIL GROUPS ONSITE
 L1 - LEON-URBAN LAND
 SCS SOIL GROUP "A/D" PER USDA SOIL SURVEY WEB SITE

BUILDING DATA:
 NUMBER OF BUILDINGS = 3
 BUILDING 1: (12) - 1 BEDROOM UNITS
 BUILDING 2: (12) - 1 BEDROOM UNITS
 EX BUILDING: (8) - 1 BEDROOM UNITS
 TOTAL UNITS = 32
 SF PER FLOOR
 BUILDINGS 1 & 2:
 1ST FLOOR = 2,230 SF
 2ND FLOOR = 2,230 SF
 3RD FLOOR = 2,230 SF
 EXISTING BUILDING
 1ST FLOOR = 2,878 SF
 2ND FLOOR = 2,878 SF
 3RD FLOOR = 2,878 SF

BUILDING HEIGHT = 35 FT
 NUMBER OF STORES = 3
 BUILDING TYPE = 3 SPRAWLED
 BUILDING USE = APARTMENTS
 BUILDING AREA: 7,377 SF (FOOTPRINT)
 LOT COVERAGE: 7,377 SF / 28,125 SF = 0.26
 PROPOSED 26% BUILDING LOT COVERAGE

REQUIRED SETBACKS: UNK - ABUTTING RS
 PROPOSED SETBACKS:
 FRONT SETBACK: 0 FT, 5 FT
 SIDE SETBACK: 0 FT, 5 FT
 REAR SETBACK: 0 FT, 5 FT
 FRONT SETBACK: 7.1 FT
 SIDE SETBACK: 7.5 FT, 9.5 FT
 REAR SETBACK: 8.1, 9.5 FT

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
 NORTH CAROLINA
 Public Services Engineering Division
 APPROVED DRAINAGE PLAN
 Date: 08/06/2018 Permit # 2018033
 Signed: *Todd Bala* for RAC

Approved Construction Plan
 Name: _____ Date: _____
 Planning: *UNC 8/16/2018*
 Traffic: *WSP/08-86-18*
 Fire: *Jerry Muck 8-6-18*

TRAFFIC ENGINEERING NOTES:

- 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 RECORDING OF THE FINAL PLAN. PLAN SHALL ADHERE TO SD 15-17.
- TRAFFIC CONTROL DEVICES (INCLUDING SIGNS AND PAYMENT MARKINGS) IN AREAS OPEN TO PUBLIC TRAFFIC ARE TO MEET MUTCO STANDARDS.
- OPEN CUT NOTES:
 A. A UTILITY CUT PERMIT IS REQUIRED FOR EACH OPEN CUT OF A CITY STREET. CONTACT 910-344-5886 FOR MORE DETAILS. IN CERTAIN CASES AN ENTIRE RESURFACING OF THE AREA BEING OPEN CUT MAY BE REQUIRED.
 B. CONTRACTOR TO COORDINATE WITH CITY OF WILMINGTON FOR ACCEPTABLE HOURS OF CONSTRUCTION AND TRAFFIC CONTROL DURING INSTALLATION OF UTILITIES IN CITY ROADS.
 C. SUITABLE COMPACTION AND APPROVED STONE & BASE COURSES TO BE INSTALLED IN PLACE OF OPEN CUT.
 D. OPEN CUT TO BE SAW CUT.
 E. ALL PAVEMENT MARKINGS IN PUBLIC RIGHTS OF WAY AND FOR DRIVEWAYS ARE TO BE THERMOPLASTIC AND MEET CITY AND/OR MUTCO STANDARDS.
 F. 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.
 G. CALL TRAFFIC ENGINEERING AT 341-7888 48 HOURS PRIOR TO ANY EXCAVATION IN THE RIGHT OF WAY.
 H. TACTILE WARNING MATS ARE TO BE INSTALLED ON ALL WHEELCHAIR RAMPS.
 I. ANY BROKEN OR MISSING SIDEWALK PANELS, DRIVEWAY PANELS AND CURBING WILL BE REPLACED.
 J. ALL TRAFFIC CONTROL SIGNS AND MARKINGS OFF THE RIGHT OF WAY ARE TO BE MAINTAINED BY THE PROPERTY OWNER IN ACCORDANCE WITH MUTCO STANDARDS.
 K. ALL PARALLEL STALL MARKINGS AND LANE ARROWS WITHIN THE PARKING AREA SHALL BE WHITE.
 L. CONTACT TRAFFIC ENGINEERING AT 341-7888 TO DISCUSS STREET LIGHTING OPTIONS.
 M. ALL PROPOSED VEGETATION WITHIN SIGHT TRIANGLES SHALL NOT INTERFERE WITH CLEAR VISUAL SIGHT LINES FROM 30 INCHES - 10 FT.
 N. CONTACT TRAFFIC ENGINEERING AT 341-7888 48 HOURS PRIOR TO ANY EXCAVATION IN THE ROW.

ENVIRONMENTAL NOTES:

- NO LAND DISTURBANCE IS PERMITTED OUTSIDE THE DESIGNATED LIMITS OF DISTURBANCE FOR SITE IMPROVEMENTS OTHER THAN WHAT IS NECESSARY TO THE INTO EXISTING CONTOURS OR MEET LANDSCAPING REQUIREMENTS.

DEVELOPMENT NOTES:

- ALL SIGNS AND PAYMENT MARKINGS IN AREAS OPEN TO PUBLIC TRAFFIC ARE TO MEET MUTCO STANDARDS.
- THE CONTRACTOR IS RESPONSIBLE FOR THE LOCATION AND PROTECTION OF EXISTING UTILITIES DURING CONSTRUCTION. CALL 341-8000 AT 1-800-832-4049. CONTRACTOR IS RESPONSIBLE FOR THE REPAIR AND REPLACEMENT OF ANY UTILITIES, CURB AND GUTTER, SIDEWALK PANELS, PAVEMENT, ETC. THAT MAY BE DAMAGED DURING CONSTRUCTION. DAMAGED ITEMS SHALL BE REPAIRED TO AT LEAST THE QUALITY OF WORKMANSHIP FOUND IN THE ORIGINAL ITEM.
- EACH UNIT WILL UTILIZE LOW HAND TOTES FOR SOLID WASTE DISPOSAL. TOTES WILL BE STORED IN A DUMPSTER TOTE CORRAL.
- ALL DEVELOPMENT SHALL BE IN ACCORDANCE WITH THE CITY OF WILMINGTON ZONING ORDINANCE & SUBDIVISION REGULATION.
- APPROVAL OF SITE PLAN DOES NOT CONSTITUTE APPROVAL OF PROPOSED SIGNAGE FOR THIS SITE. A SEPARATE SIGN PERMIT MUST BE OBTAINED.
- APPLICABLE STREET FRONTAGES SHALL HAVE NATURAL VEGETATIVE SCREENING MEETING CITY REQUIREMENTS.
- THE DEVELOPMENT SHALL COMPLY WITH ALL CITY TECHNICAL STANDARDS AND DEVELOPMENT REGULATIONS.
- PRIMARY BUILDING ENTRANCES SHALL BE CLEARLY DEFINED AND SHALL BE RECESSED AT LEAST FIVE FEET OF FRAMED BY AN ARCHITECTURAL ELEMENT. PRIMARY ENTRANCES SHOULD BE CLEARLY DISTINGUISH FROM OTHER ENTRANCES. SECONDARY OUTSIDE BUILDING ENTRANCES TO UPPER FLOORS ON THE PRIMARY FACADE SHALL ALIGN WITH THE OUTER MOST WINDOW ON THE FRONT FACADE.
- IF UNITS ARE SOLD AT ANY POINT, THE BUYER MUST RECEIVE A SUBDIVISION STREET DISCLOSURE STATEMENT.

FIRE & LIFE SAFETY NOTES:

- LANDSCAPING OR PARKING CANNOT BLOCK OR IMPIDE FIRE HYDRANTS OR FDC'S. A 3FT CLEAR SPACE SHALL BE MAINTAINED AROUND THE CIRCUMFERENCE OF THE HYDRANT.
- CONTRACTOR SHALL MAINTAIN AN ALL WEATHER ACCESS FOR EMERGENCY VEHICLES AT ALL TIMES DURING CONSTRUCTION.
- PRIVATE UNDERGROUND FIRE LINES REQUIRE A SEPARATE FIRE LINE PERMIT FROM CITY AND LIFE SAFETY DIVISION, 910-343-0986.
- IN ADDITION TO THE STANDARD COMMENTS, ADDITIONAL FIRE PROTECTION AND ACCESSIBILITY REQUIREMENTS MAY BE REQUIRED DUE TO ANY SPECIAL CIRCUMSTANCES CONCERNING THE PROJECT.
- NEW HYDRANTS MUST BE BROUGHT INTO SERVICE PRIOR TO COMBUSTIBLE MATERIAL DELIVERED TO THE JOB SITE.
- HYDRANTS MUST BE WITHIN 150 FT OF THE FDC (MEASURED AS THE TRUCK DRIVES).
- FDC MUST BE WITHIN 40 FT OF FIRE APPARATUS PLACEMENT.
- ALL ISOLATION VALVES WITH THE "HOT BOX" MUST BE ELECTRICALLY SUPERVISED.

UTILITY NOTES:

- PROJECT SHALL COMPLY WITH THE CITY OF WILMINGTON AND CPWA CROSS CONNECTION CONTROL REQUIREMENTS. WATER METERS/CANNOT BE SET AND ACTIVATED ON NEW UNITS UNTIL ALL REQUIREMENTS ARE MET. CALL 343-3910 FOR INFORMATION.
- THE CONTRACTOR DESIRES WATER FOR CONSTRUCTION USE/SHE SHALL APPLY IN ADVANCE FOR THIS SERVICE AND MUST PROVIDE A REDUCED PRESSURE ZONE (RPZ) BACKFLOW PREVENTION DEVICE ON THE DELIVERED SIDE OF THE WATER METER BOX.
- ALL COMMERCIAL WATER SERVICES AND ANY IRRIGATION SYSTEMS SUPPLIED BY CPWA WATER SHALL HAVE A BACKFLOW PREVENTION DEVICE ACCEPTABLE TO THE CPWA AND APPROVED BY USFDCOHR OR USSE. CALL 789-4484 FOR INFORMATION.
- WHEN PUC WATER MAINS AND/OR POLYETHYLENE SERVICES ARE PROPOSED, THE PIPES ARE TO BE MARKED WITH NO. 10 INSULATED COPPER WIRE INSTALLED THE ENTIRE LENGTH AND STRAPPED TO THE PIPES WITH DUCT TAPE. THE INSULATED WIRE IS TO BE STRIPPED TO BARE WIRE AND SECURED TO ALL VALVES AND FITTINGS. THE WIRE IS TO BE ACCESSIBLE AT ALL FIRE HYDRANTS AND WATER METER BOXES TO AID IN FUTURE LOCATION OF FACILITIES.
- 36" MINIMUM COVER OVER ALL WATER MAINS.
- ANY SEPARATE CONNECTION FOR IRRIGATION SHALL COMPLY WITH CITY AND CPWA CROSS-CONNECTION REQUIREMENTS WITH APPROVED BACKFLOW PREVENTION DEVICES.
- AT LOCATIONS WHERE WATER MAIN CROSSES UNDER SANITARY SEWER, DUCTILE IRON PIPE SHALL BE USED ALONG WITH PROVIDING 24" MINIMUM OF VERTICAL SEPARATION.
- WATER SERVICES CAN NOT BE ACTIVATED ON NEW WATER MAINS UNTIL ENGINEER'S CERTIFICATION AND APPLICABLE CERTIFICATION HAVE BEEN PROVIDED TO INSURE AND "FINAL APPROVAL" ISSUED.
- UNDERGROUND UTILITIES- ALL NEW UTILITIES SHALL BE INSTALLED UNDERGROUND, EXCEPT WHERE SUCH PLACEMENT IS PROHIBITED OR DEEMED IMPRACTICAL BY THE UTILITY PROVIDER. UNDERGROUND FACILITIES FOR STREET LIGHTING ALONG ALL PUBLIC STREETS ADJUTING THE SUBJECT SITE SHALL BE INSTALLED BY THE DEVELOPER.

LANDSCAPE NOTES:

- REFERENCE LANDSCAPE PLAN

SITE LIGHTING

- ALL SITE LIGHTING SHALL BE LOCATED, ANGLED, SHIELDED AND/OR LIMITED IN INTENSITY SO AS TO CAST NO DIRECT LIGHT UPON ADJACENT PROPERTIES. SHALL MINIMIZE OFF-SITE BACKLIGHTING GLARE, AND UP-LIGHTING. LIGHT POST SHALL BE NO TALLER THAN TWELVE (12) FT.

PARKING NOTES:

- NO PARKING REQUIRED FOR UNK
- 15 SPACES SHOWN
- BICYCLE PARKING 27 SPACES REQUIRED
- PARKING MAXIMUM
- (32 X 25) + (2,878/200) = 94
- HANDICAP SPACE REQUIRED: 1 PROVIDED

VARIANCE REQUEST

- VARIANCE REQUEST FOR 75 FT OFFSET FOR DRIVEWAYS ALONG MAJOR THOROUGHFARES

GENERAL NOTES:

- NEW HANOVER COUNTY PARCEL NUMBERS: PID = R05407-029-012-000
- TOTAL PROJECT AREA: 28,125 SF (0.65 AC)
- EXISTING ZONING DISTRICT: UNK
- LAND CLASSIFICATION: URBAN
- THIS SITE IS LOCATED WITHIN ZONE "C" ACCORDING TO FEMA FIRM COMMUNITY PANEL NUMBER 372031200A, EFFECTIVE DATE 4/3/06
- DATE: 4/3/06
- EXISTING IMPERVIOUS ONSITE = 11,180 SF
- AS-BUILT BOUNDARY AND TOPOGRAPHIC SURVEY PERFORMED AND PROVIDED TO CSD ENGINEERING BY CAPE FEAR SURVEYING, VERTICAL DATUM = 60
- STORMWATER DRAINS TO BURNT MILL CREEK, C, SW 10-74-63-2

CSD ENGINEERING
 LICENSING # C-2710
 ENGINEERING
 LAND PLANNING
 COMMERCIAL / RESIDENTIAL
 P.O. BOX 4041
 WILMINGTON, NC 28406
 (910) 791-4441

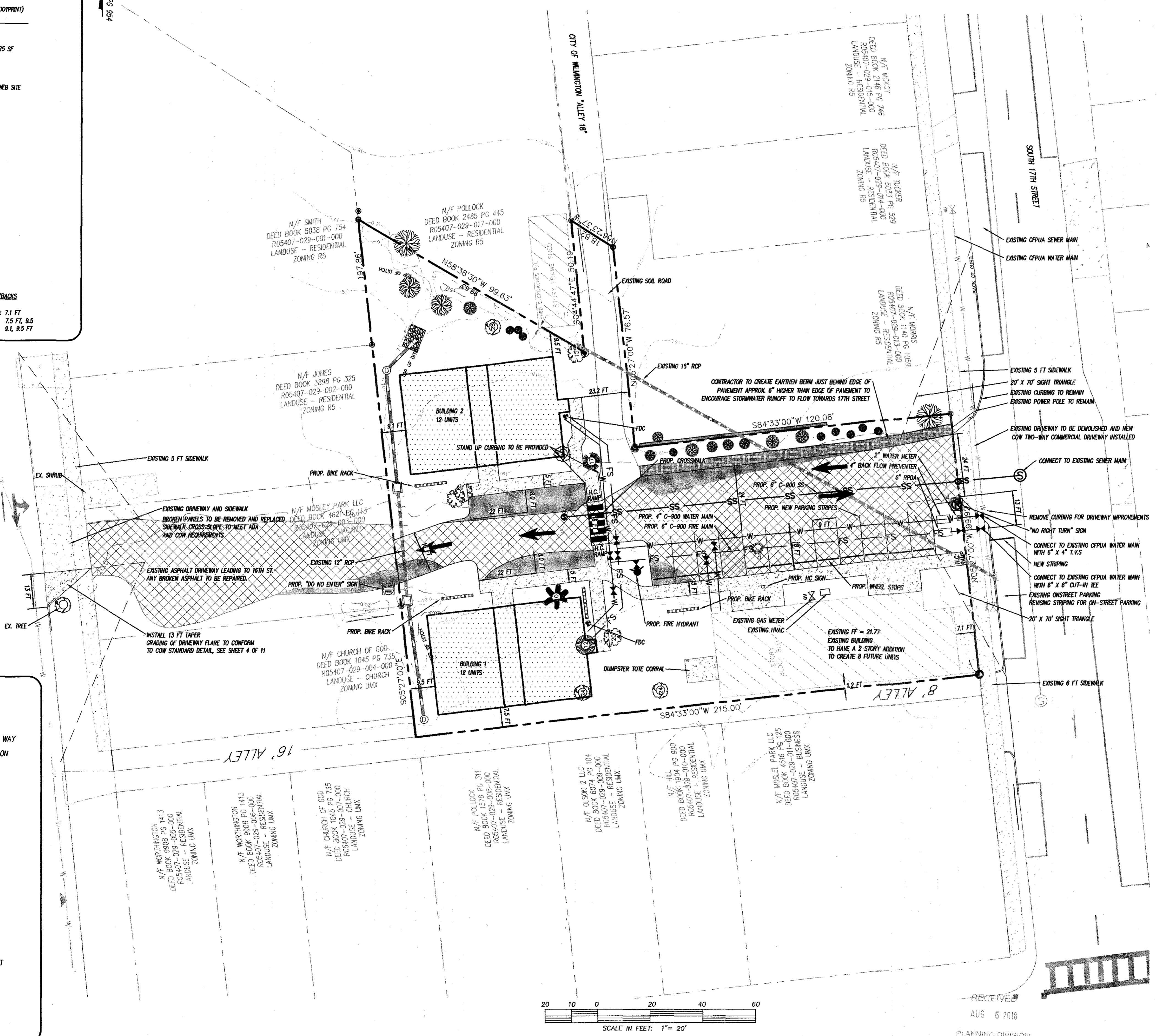
SITE PLAN FOR
STUDIO 17 APARTMENTS
 LOCATED IN CITY OF WILMINGTON
 NEW HANOVER COUNTY, NORTH CAROLINA
 OWNER: MOSLEY PARK, LLC
 1319 MILITARY CUTOFF
 SUITE CC PWB 172
 WILMINGTON, NC 28405

STUDIO 17 APARTMENTS
 PROFESSIONAL SEAL 025483
 ENGINEER
 JERRY MUCK
 7/1/18

REVISION TABLE:

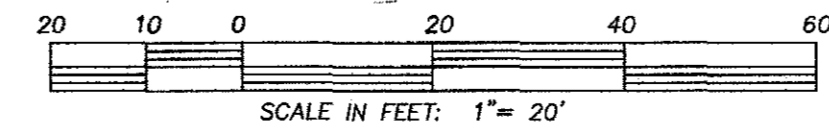
REV.	DATE	BY	REMARKS
1	7-11-18	RLW	
2	5-29-18	RLW	
3	5-7-18	RLW	
4	3-21-18	RLW	

DATE: 1-22-18
 HORZ. SCALE: 1" = 20'
 VERT. SCALE: N/A
 DRAWN BY: RLW
 CHECKED BY: HSR
 PROJECT NO.: 16-0380
 Sheet No. **3** of **11**



LEGEND

- EXISTING BOUNDARY
- CENTERLINE OF RIGHT OF WAY
- CONTOUR LINE & ELEVATION
- EXISTING SANITARY SEWER & MANHOLE
- EXISTING WATERLINE
- EXISTING FIRE HYDRANT
- EXISTING STORM DRAIN
- EXISTING TREE
- PROP. STORM DRAIN
- PROP. FIRE HYDRANT
- PROP. GATE VALVE
- PROP. WATER METER
- PROP. SANITARY SEWER & MANHOLE
- PROP. WATER MAIN
- EX. ASPHALT TO REMAIN
- PROP. BUILDING FOOTPRINT
- PROP. ASPHALT
- PROP. CONCRETE
- EXISTING CONCRETE



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NOTES:

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

DATE: OCTOBER, 2010	STANDARD DETAIL	<p>CITY OF WILMINGTON ENGINEERING PO BOX 1810 WILMINGTON, N.C. 28402 (910) 341-7807</p>
DRAWN: PB/JSR	SIDEWALK	
CHECKED: DEC		
SCALE: NOT TO SCALE		
	SD 3-10	

DATE: JUNE 1, 2015	STANDARD DETAIL	<p>CITY OF WILMINGTON ENGINEERING PO BOX 1810 WILMINGTON, N.C. 28402 (910) 341-7807</p>
DRAWN BY: JSR	COMMERCIAL DRIVEWAY SECTIONS	
CHECKED BY: D.E.C., P.E.		
SCALE: NOT TO SCALE		
	2 of 2 SD 3-03.4	

Approved Construction Plan

Name: _____ Date: 8/16/2018

Planning: YMC 8-6-18

Traffic: W. P. ... 8-6-18

Fire: ... 8-6-18

CITY OF WILMINGTON
NORTH CAROLINA
Public Services Engineering Division
APPROVED DRAINAGE PLAN

Date: 08/06/2018 Permit # 2018083

Signed: ... for RAC

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: JUNE 1, 2015	STANDARD DETAIL	<p>CITY OF WILMINGTON ENGINEERING PO BOX 1810 WILMINGTON, N.C. 28402 (910) 341-7807</p>
DRAWN BY: JSR	COMMERCIAL DRIVEWAY PLAN	
CHECKED BY: D.E.C., P.E.		
SCALE: NOT TO SCALE		
	1 of 2 SD 3-03.3	

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 DISRUPT CROWN WITH INTENSIVE PRUNING.

NOTES:

1. PROTECT CRITICAL ROOT ZONE (CRZ) OF TREES PRIOR TO CONSTRUCTION. CLEARLY MARK THE TREES AND ERECT A PROTECTIVE BARRIER AT THE CRZ. BARRIER SHALL BE MAINTAINED UNTIL CONSTRUCTION IS COMPLETE.
2. CRZ RADIUS IS 1 FT PER INCH OF TREE DIAMETER AT BREAST HEIGHT (DBH).
3. IF CONSTRUCTION OCCURS WITHIN THE CRZ, AT LEAST 12" OF MULCH AND/OR LOGGING MATS SHALL BE PLACED WHERE MACHINERY MANEUVERS TO REDUCE SOIL COMPACTION IN THIS ZONE.
4. WHERE SIDEWALKS AND PATHWAYS PASS WITHIN CRZ, EXTRA CARE SHALL BE TAKEN TO AVOID DAMAGE TO THE ROOTS. ALTERNATE CONSTRUCTION METHODS, SUCH AS A REINFORCED SIDEWALK, SHALL BE IMPLEMENTED AS NECESSARY.
5. FOR ALL TREES, CUTTING OF LARGE STRUCTURAL ROOTS LOCATED NEAR THE BASE OF THE TRUNK IS PROHIBITED. DO NOT COMPACT SOIL BENEATH TREES. NO VEHICLE SHALL BE ALLOWED TO PARK UNDER TREES. NO MATERIALS OR EQUIPMENT SHALL BE STORED BENEATH TREES, DAMAGING THE BARK WITH LAWNMOWERS, CONSTRUCTION EQUIPMENT, OR ANYTHING ELSE IS PROHIBITED. CONTRACTOR SHALL REPAIR DAMAGE TO TREES.
6. FAILING TO INSTALL OR MAINTAIN PROTECTION MEASURES SHALL RESULT IN A STOP WORK ORDER AND FINE OF \$500/DAY. DISTURBANCE OTHER THAN THAT ALLOWED ON THE APPROVED PLAN WILL REQUIRE OWNER TO POST A LETTER OF CREDIT FOR 3 YRS FOR TREE MITIGATION.

DATE: JAN, 2015	STANDARD DETAIL	<p>CITY OF WILMINGTON ENGINEERING PO BOX 1810 WILMINGTON, N.C. 28402 (910) 341-7807</p>
DRAWN BY: JSR	TREE PROTECTION DURING CONSTRUCTION	
CHECKED BY: RDG, P.E.		
SCALE: NOT TO SCALE		
	SHEET 1 of 2 SD 15-09	

NOTES:

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

DATE: JAN, 2015	STANDARD DETAIL	<p>CITY OF WILMINGTON ENGINEERING PO BOX 1810 WILMINGTON, N.C. 28402 (910) 341-7807</p>
DRAWN BY: JSR	TREE PROTECTION DURING CONSTRUCTION	
CHECKED BY: RDG, P.E.		
SCALE: NOT TO SCALE		
	SHEET 2 of 2 SD 15-09	

CSD ENGINEERING

LICENSE # C-2710
ENGINEERING
LAND PLANNING
COMMERCIAL / RESIDENTIAL

P.O. BOX 4041
WILMINGTON, NC 28406
(910) 791-4441

SITE PLAN DETAILS
STUDIO 17 APARTMENTS

LOCATED IN CITY OF WILMINGTON
NEW HARBINGER COUNTY, NORTH CAROLINA

OWNER: MOSLEY PARK, LLC
1319 MILITARY CUTOFF
SUITE CC PMB 172
WILMINGTON, NC 28405

PROFESSIONAL ENGINEER
NORTH CAROLINA
REG. NO. 025483
SEAL

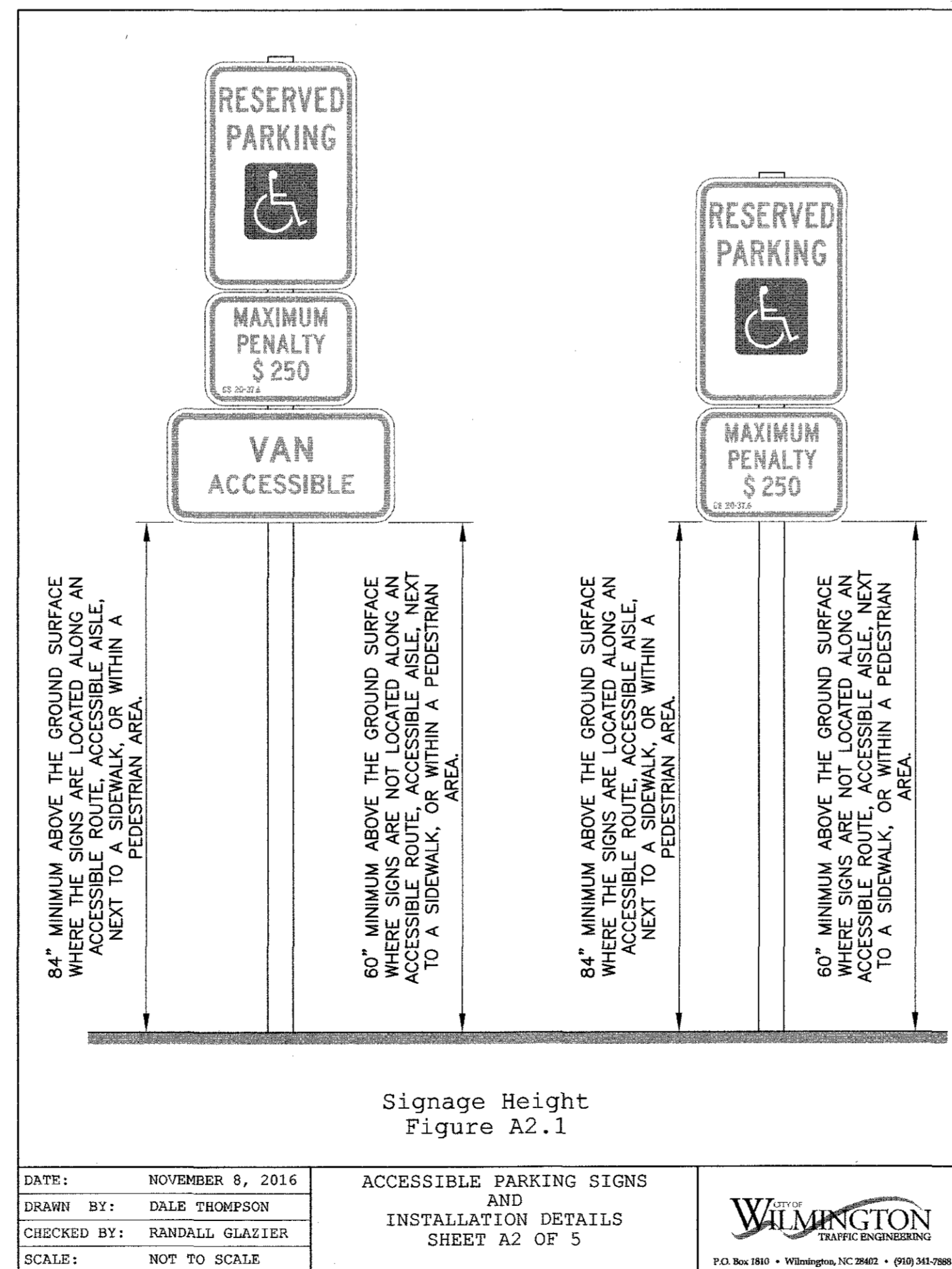
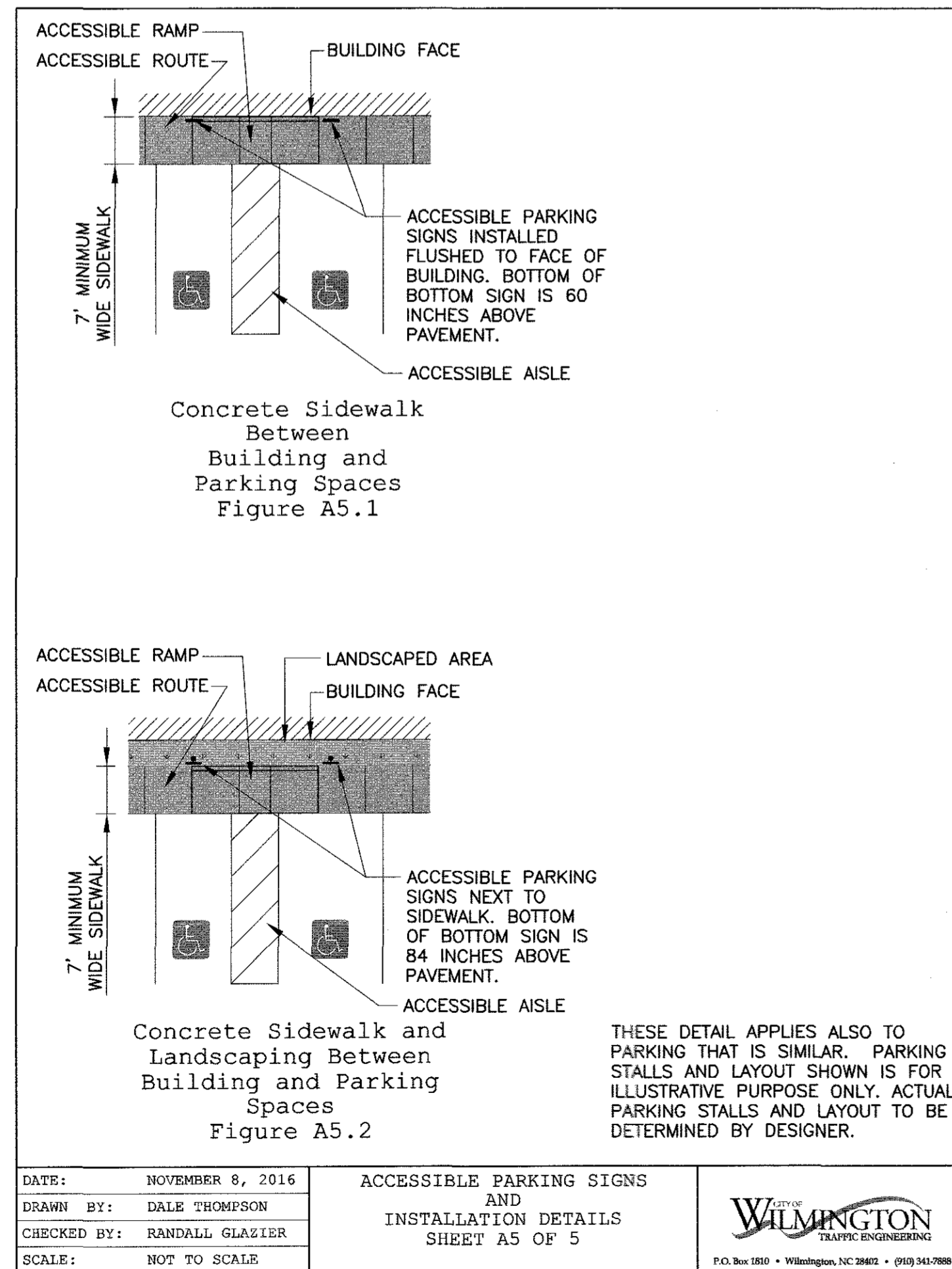
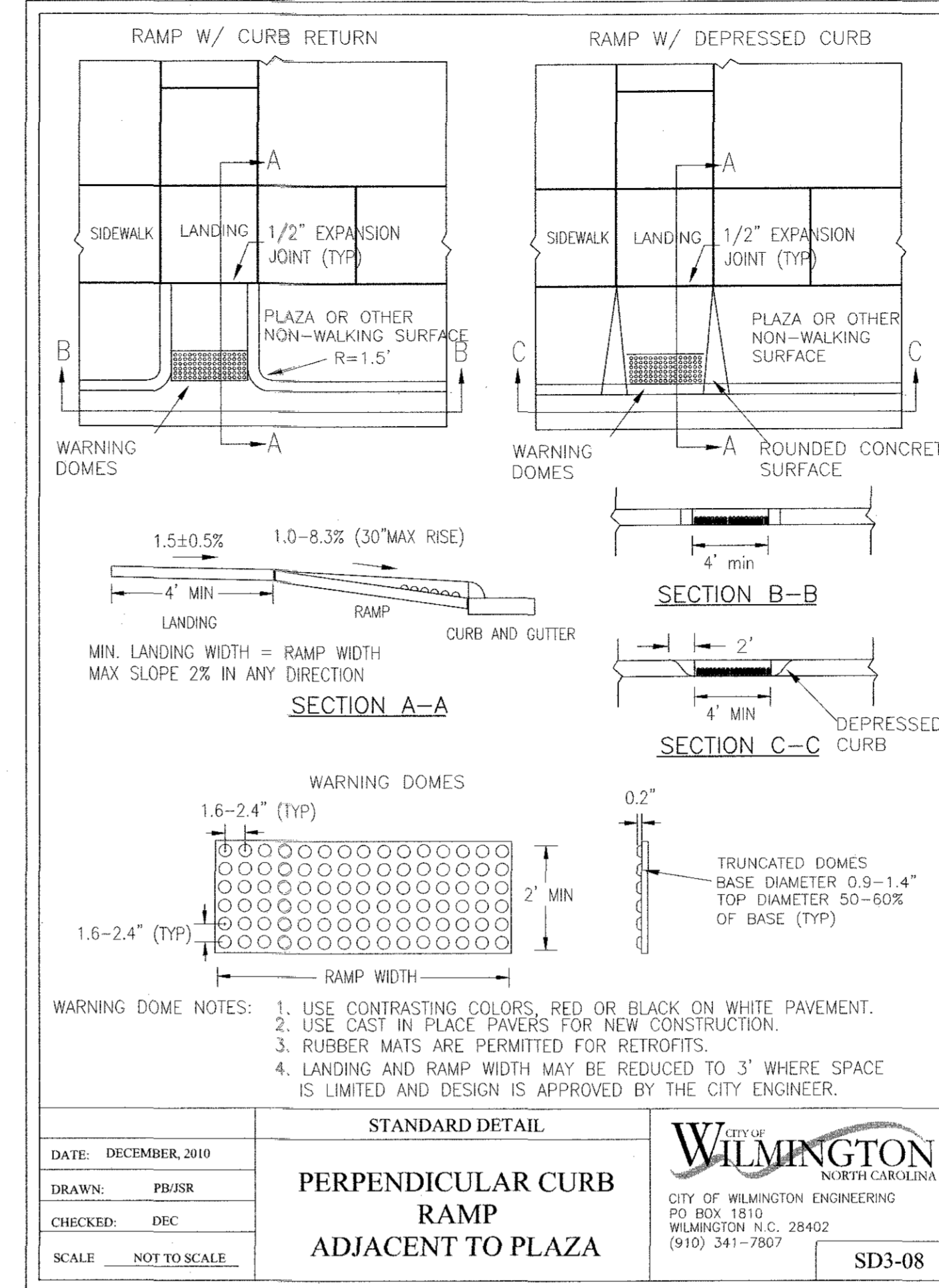
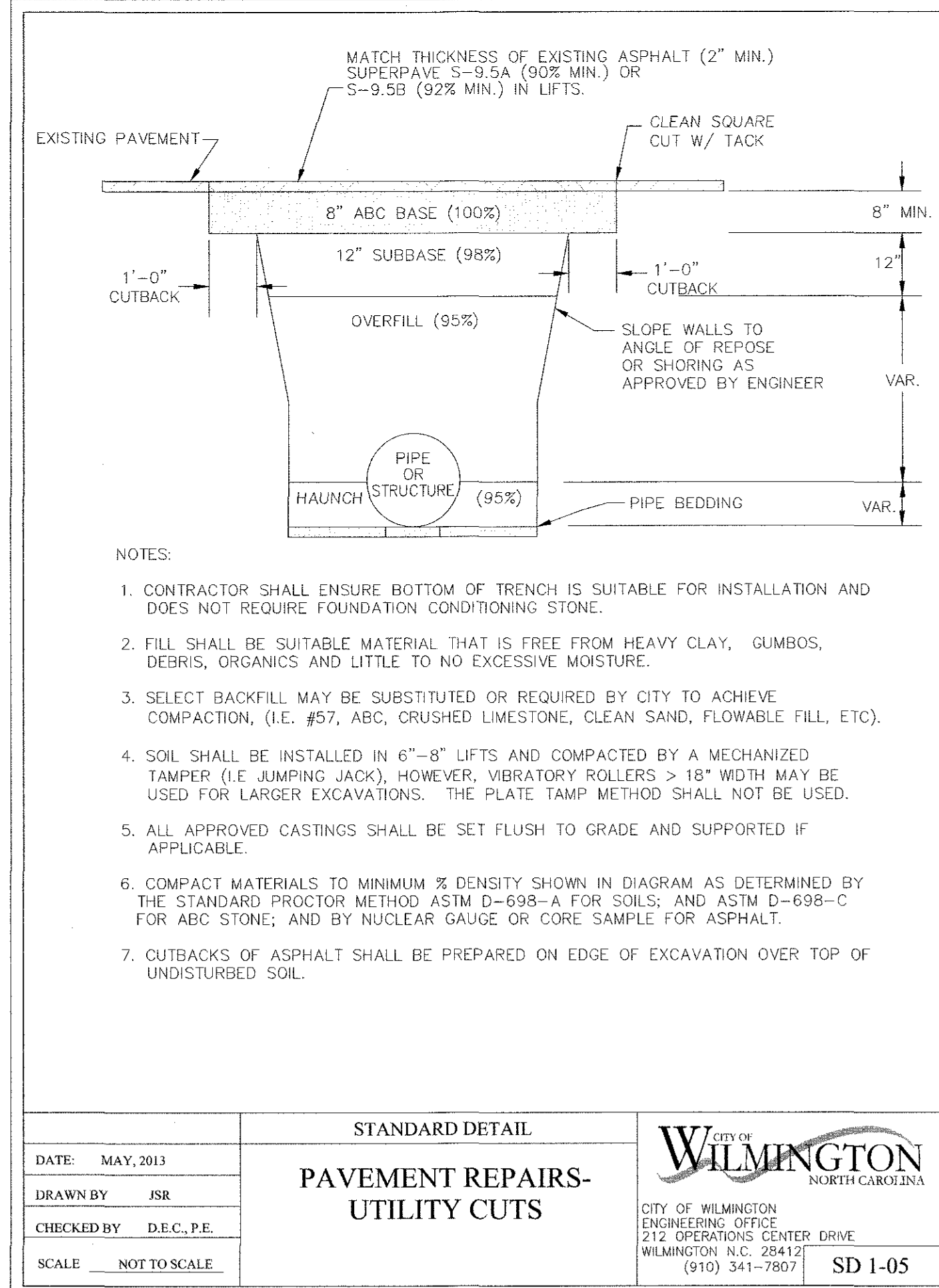
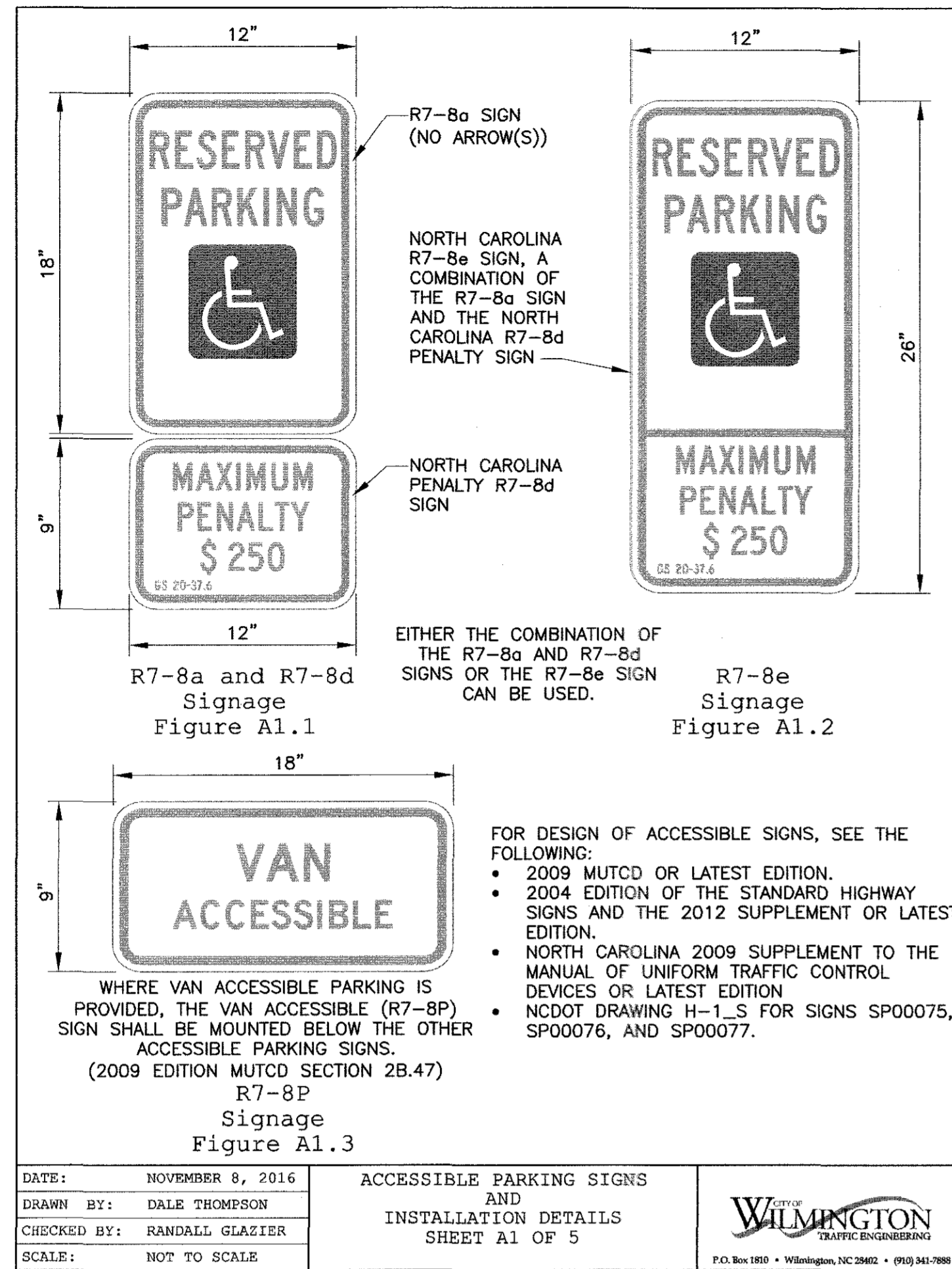
DATE: 8/2/18

REV. NO.	REVISED PER	BY	DATE	REMARKS
1				

DATE: 1-22-18
HORZ. SCALE: AS NOTED
VERT. SCALE: N/A
DRAWN BY: RLW
CHECKED BY: HSR
PROJECT NO.: 17-0434

Sheet No. **4** of **11**

RECEIVED
AUG 6 2018
PLANNING DIVISION



Approved Construction Plan

Name: _____ Date: _____
 Planning: *YMC 8-6-18*
 Traffic: *W-8-6-18*
 Fire: *Janet Mob 8-6-18*

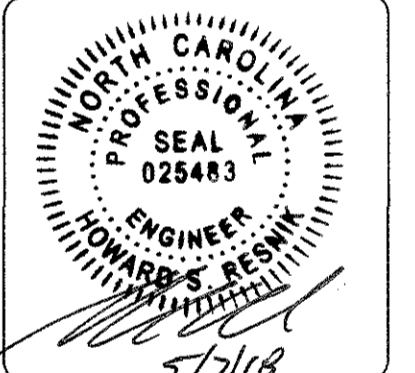
CITY OF WILMINGTON
 NORTH CAROLINA
 Public Services • Engineering Division
 APPROVED DRAINAGE PLAN
 Date: *08/06/2018* Permit # *2018083*
 Signed: *Todd Pollock for RAC*

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 PLAN DETAILS
STUDIO 17 APARTMENTS

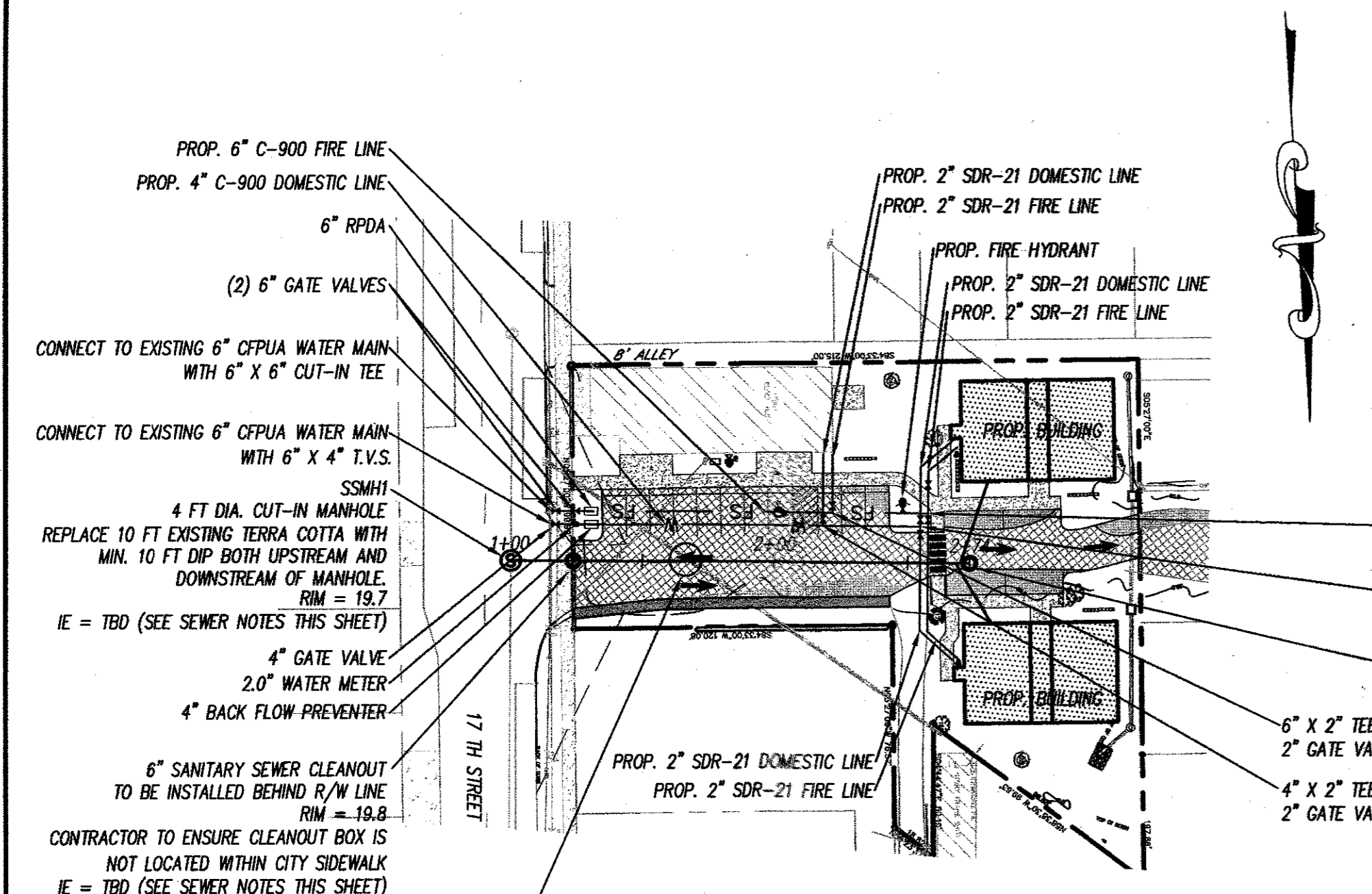
LOCATED IN CITY OF WILMINGTON
 NEW HANOVER COUNTY, NORTH CAROLINA
 OWNER: MOSLEY PARK, LLC
 1319 MILITARY CUTOFF
 SUITE CC PMB 172
 WILMINGTON, NC 28405



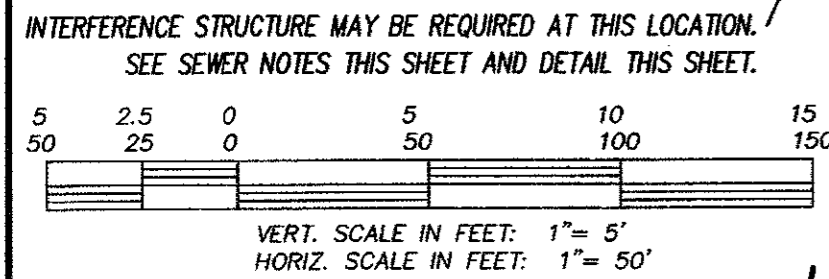
REV. NO.	DATE	BY	REMARKS
2	5-7-18	RLW	REVISED PER TRC COMMENTS
1	3-21-18	RLW	REVISED PER TRC COMMENTS

DATE: 1-22-18
 HORZ. SCALE: AS NOTED
 VERT. SCALE: N/A
 DRAWN BY: RLW
 CHECKED BY: HSR
 PROJECT NO.: 17-0434

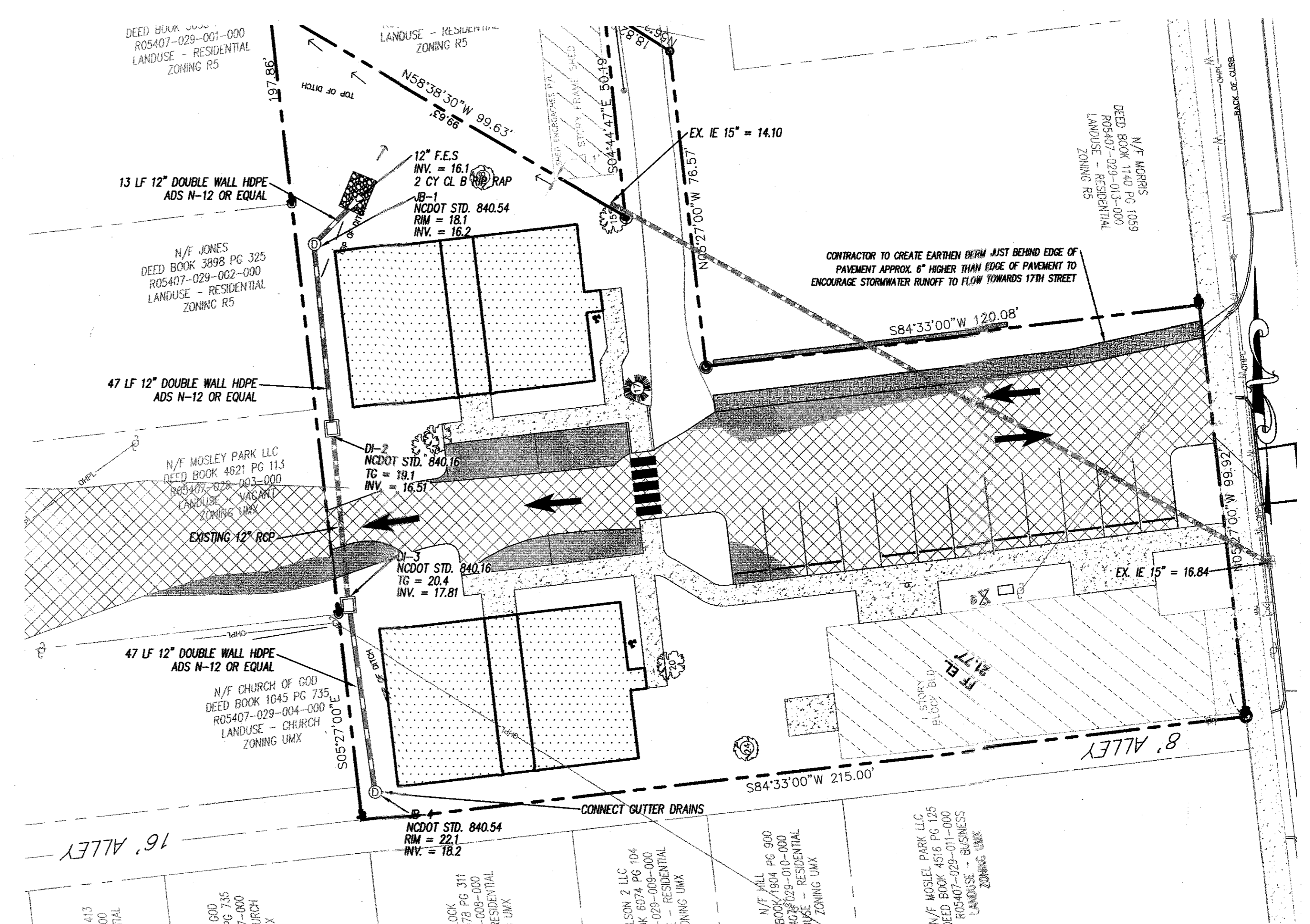
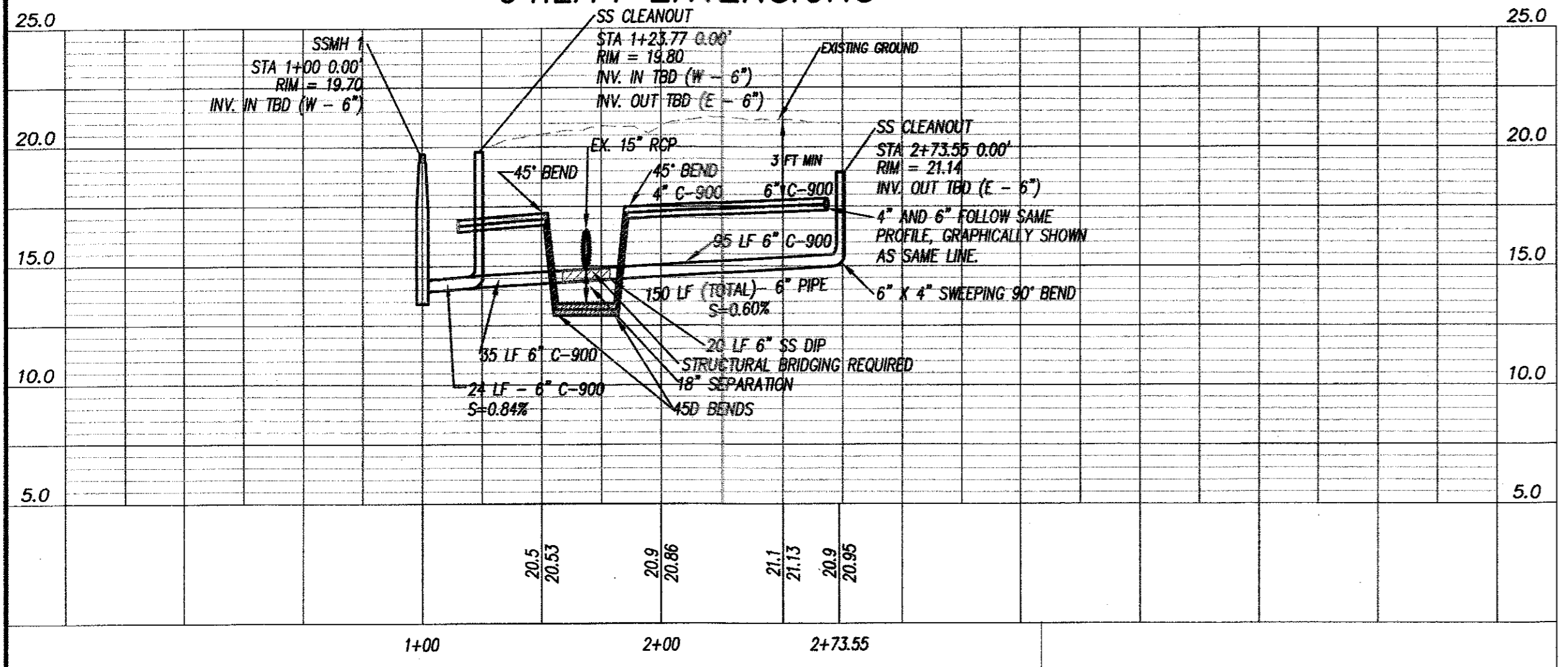
RECEIVED
 APR 6 2018
 PLANNING DIVISION



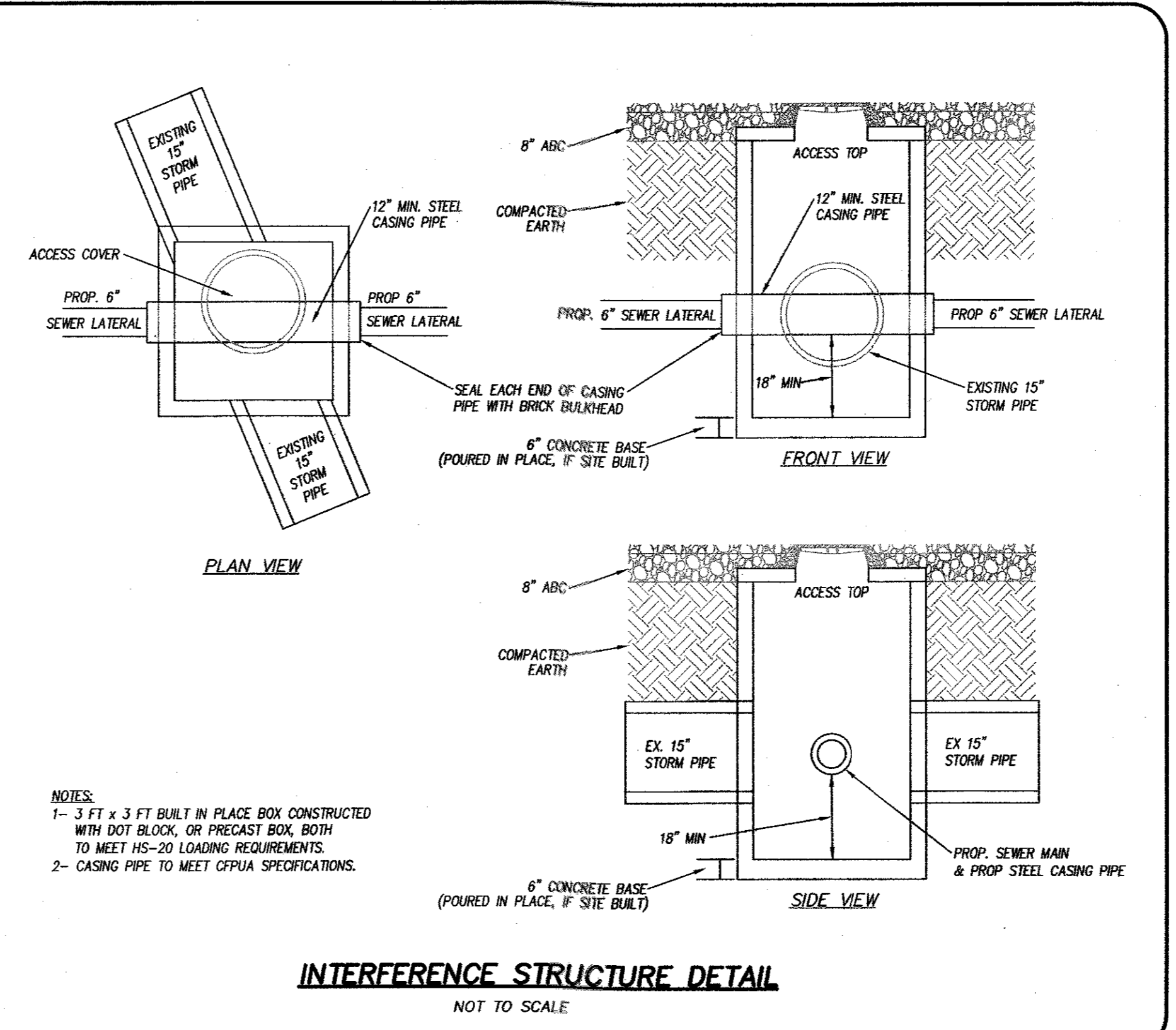
**** NOTES:** 1-WATER AND SEWER UTILITY CONNECTIONS WILL REQUIRE NCDOT ENCROACHMENT APPROVAL. SEE SHEET 1 OF NCDOT ENCROACHMENT PLANS.
 2-WATER AND FIRE MAINS TO BE PUBLIC FROM TAP TO THE RIGHT-OF-WAY OR METER, PRIVATE FROM THAT POINT INTO THE SITE.
 3-SEWER MAIN TO BE PRIVATE. RUN FROM SSMH-1 TO CLEANOUT AT R/W TO BE CONVEYED TO C/PJUA.
 4-NO VALVES, METERS, CLEANOUTS, ETC. ARE ALLOWED TO BE LOCATED IN CITY OF WILMINGTON SIDEWALKS.



UTILITY EXTENSIONS

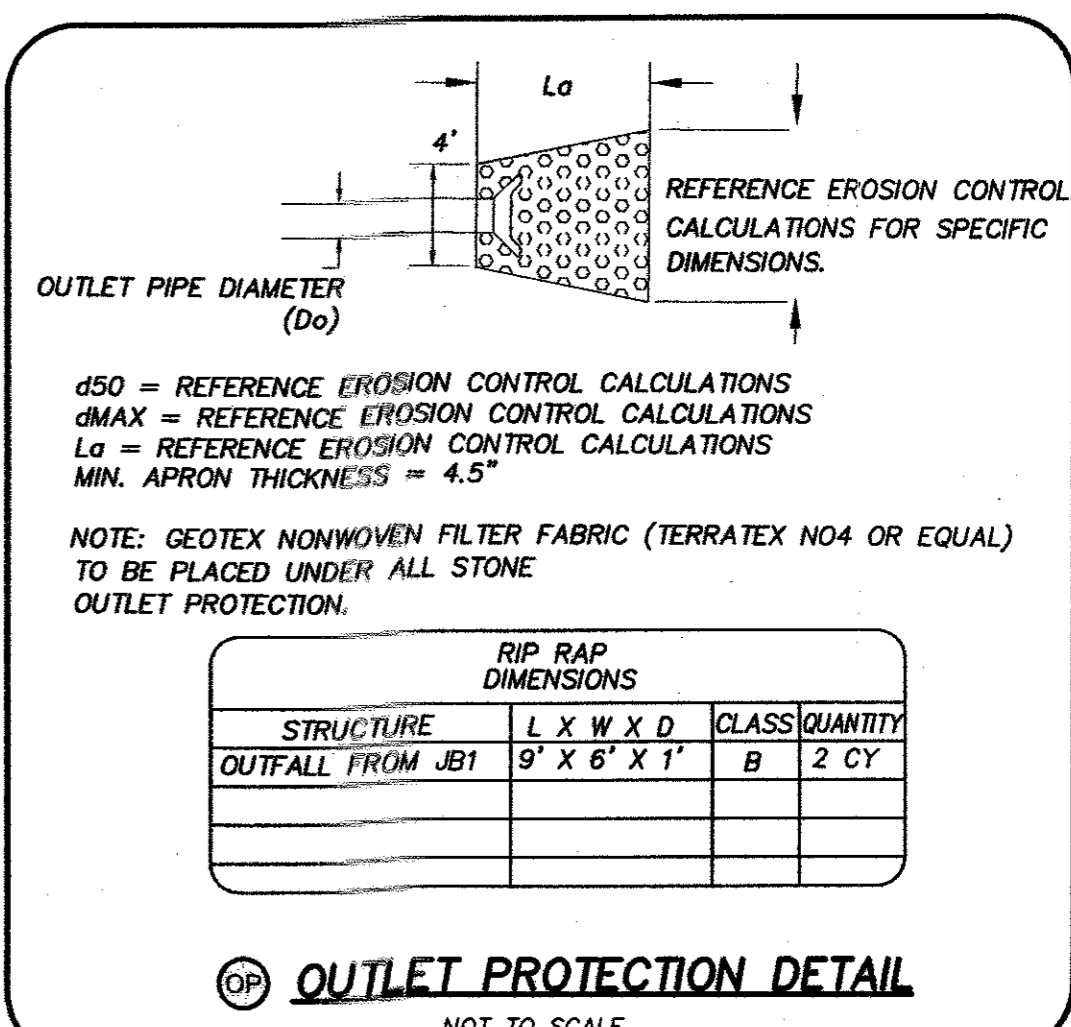


STORM DRAINAGE IMPROVEMENTS



STORMWATER DRAINAGE STRUCTURE NOTES

- CONTRACTOR AND PRECASTER TO DETERMINE STORM STRUCTURE SIZES.
- FRAME AND GRATES TO BE NCDOT 840.16
- RING AND COVERS TO BE NCDOT STD. 840.54
- STORM STRUCTURES TO BE NCDOT STD. 840.14
- PRECAST STORM STRUCTURES TO MEET HS-20-44 LOADING.
- CONTRACTOR TO INSTALL ACCESS COVERS SO THEY ARE NOT LOCATED WITHIN THE CURB AND GUTTER

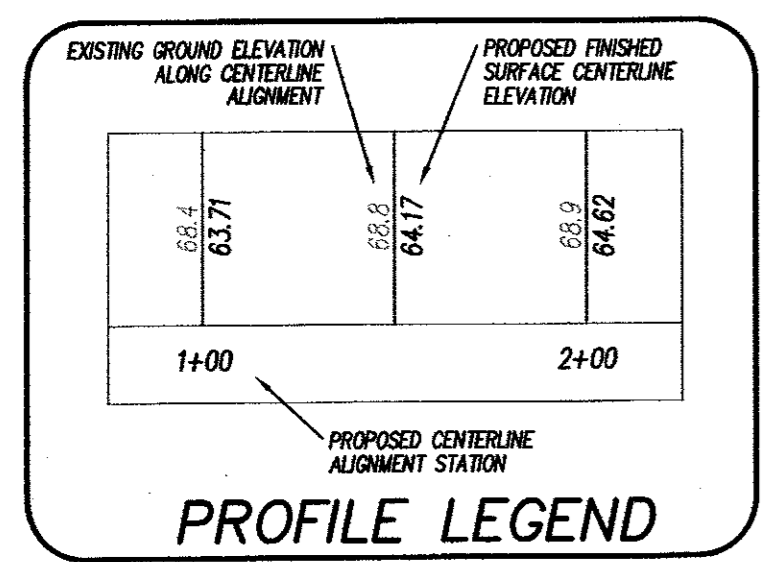


CPJUA STANDARD NOTES:

- SEWER GUARDS REQUIRED AT ALL MANHOLES. STAINLESS STEEL SEWER GUARDS REQUIRED AT MANHOLES LOCATED IN TRAFFIC AREAS.
- WATER AND SEWER SERVICES SHALL BE PERPENDICULAR TO MAIN AND TERMINATE AT R/W LINE. SEWER SERVICES IN CUL-DE-SACS ARE REQUIRED TO BE PERPENDICULAR, OR MUST ORIGINATE IN END OF LINE MANHOLE AND TERMINATE AT RIGHT-OF-WAY LINE.
- ALL SERVICES TYING INTO DUCTILE IRON MAINS SHALL BE CONSTRUCTED OF CLASS 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 FITTINGS SHALL BE 316.
- CLEANOUTS SHALL BE LOCATED A MINIMUM OF 12 FEET FROM ALL PROPERTY CORNERS. WATER METER BOXES ARE TO BE A MINIMUM OF 5 FEET FROM THE PROPERTY CORNER.

SEWER NOTES / NOTES FOR CONTRACTOR:

- CONTRACTOR SHALL NOT PROCEED WITH INSTALLATION OF SANITARY SEWER COLLECTION SYSTEM UNTIL THE FOLLOWING HAS BEEN PERFORMED/PROVIDED.
- PRIOR TO INSTALLATION OF CUT-IN MANHOLE, CONTRACTOR IS TO EXCAVATE EXISTING SANITARY SEWER MAIN TO VERIFY EXISTING SEWER MAIN SIZE, LOCATION, AND INVERT ELEVATION (HORIZONTAL AND VERTICAL) DATA TO BE DETERMINED AND PROVIDED BY NC REGISTERED PLS. THIS INFORMATION SHALL BE REPORTED BACK TO THE DESIGN ENGINEER. SEWER INSTALLATION SHALL NOT PROCEED UNTIL ENGINEER CONFIRMS EXISTING SEWER MAIN IS ADEQUATE TO SERVE SITE AND SPECIFIC RIM AND INVERT DESIGN INFORMATION IS PROVIDED BY THE DESIGN ENGINEER. ADDITIONAL COORDINATION WITH THE CPJUA MAY ALSO BE NECESSARY.
- INFORMATION OBTAINED PER ITEM 1 ABOVE WILL ALSO BE UTILIZED TO DETERMINE IF PROPOSED 6" SEWER MAIN WILL BE IN CONFLICT WITH THE EXISTING 15" STORM DRAIN CROSSING THE SITE. IF A CONFLICT EXISTS, AN INTERFERENCE STRUCTURE WILL BE REQUIRED AND THE DESIGN ENGINEER WILL PROVIDE PRECISE INVERT AND SEPARATION INFORMATION FOR THE INSTALLATION.
- ALL NEW 6" SEWER MAIN TO HAVE A MINIMUM OF 0.6% SLOPE.



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
 NORTH CAROLINA
 Public Services Engineering Division
 APPROVED DRAINAGE PLAN
 Date: 08/06/2018 Permit # 2018033
 Signed: [Signature] for RAC

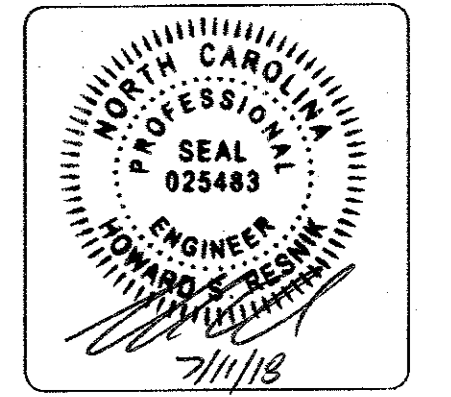
Approved Construction Plan

Name: _____ Date: _____
 Planning: *YMC* 8/16/2018
 Traffic: *W. Edwards* 8-6-18
 Fire: *Juan Mota* 8-6-18

CSD ENGINEERING
 LICENSE # C-2710
 ENGINEERING
 LAND PLANNING
 COMMERCIAL / RESIDENTIAL
 P.O. BOX 4041
 WILMINGTON, NC 28406
 (910) 791-4441

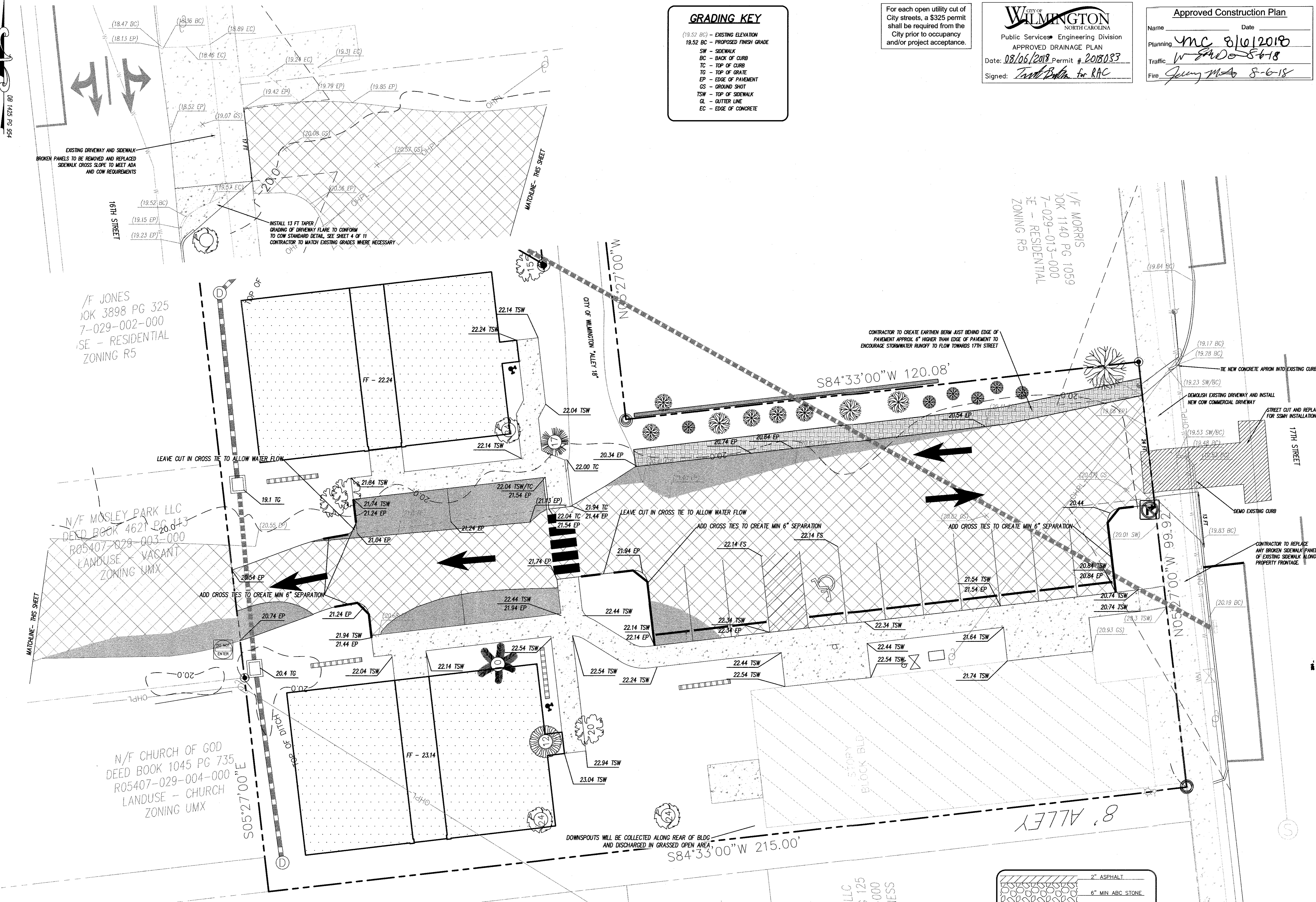
UTILITY PLAN
STUDIO 17 APARTMENTS

STUDIO 17 APARTMENTS
 LOCATED IN CITY OF WILMINGTON
 NEW HARGREAVE COUNTY, NORTH CAROLINA
 OWNER: MOSLEY PARK, LLC
 1319 MILITARY CUTOFF
 SUITE CC PMB 172
 WILMINGTON, NC 28405



REV. NO.	DATE	REMARKS
1	7-11-18	MB
2	7-11-18	RFV
3	7-11-18	RFV
4	7-11-18	RFV
5	7-11-18	RFV

DATE: 3-1-18
 HORIZ. SCALE: 1" = 10'
 VERT. SCALE: N/A
 DRAWN BY: RLW
 CHECKED BY: HSR
 PROJECT NO.: 17-0434
 Sheet No. **6** of **11**



GRADING KEY

(19.52 BC) - EXISTING ELEVATION
 19.52 BC - PROPOSED FINISH GRADE

SW - SIDEWALK
 BC - BACK OF CURB
 TC - TOP OF CURB
 TG - TOP OF GRADE
 EP - EDGE OF PAVEMENT
 GS - GROUND SHOT
 TSW - TOP OF SIDEWALK
 CL - CLUTTER LINE
 EC - EDGE OF CONCRETE

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

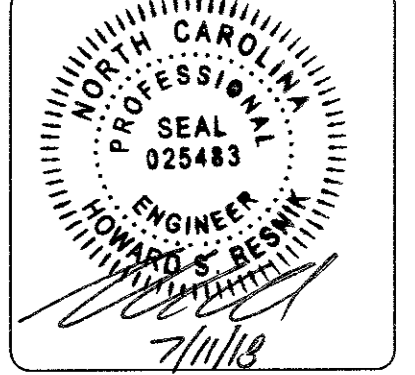
City of WILMINGTON NORTH CAROLINA
 Public Services - Engineering Division
 APPROVED DRAINAGE PLAN
 Date: 08/06/2018 Permit # 2018083
 Signed: *Todd Buller* for RAC

Approved Construction Plan
 Name: _____ Date: _____
 Planning: *YMC 8/10/2018*
 Traffic: *W-840-8-6-18*
 File: *July MA 8-6-18*

CSD ENGINEERING
 LICENSE # C-2710
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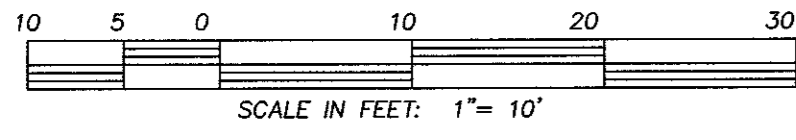
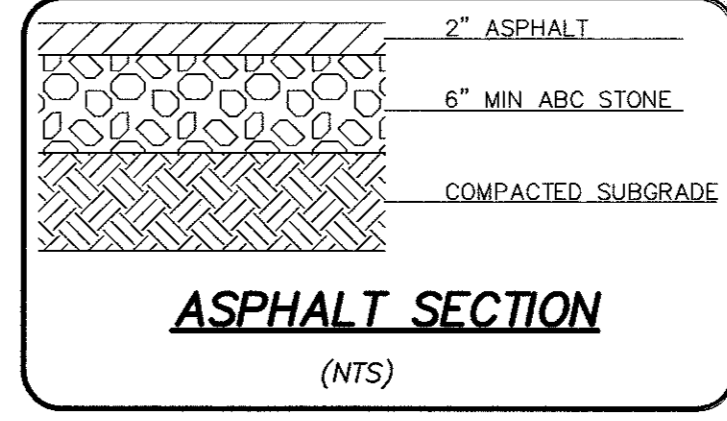
GRADING PLAN
 STUDIO 17 APARTMENTS

GRADING PLAN FOR
 STUDIO 17 APARTMENTS
 LOCATED IN CITY OF WILMINGTON
 NEW HANOVER COUNTY, NORTH CAROLINA
 OWNER: MOSLEY PARK, LLC
 1319 MILITARY CUTOFF
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 WILMINGTON, NC 28405



REV. NO.	BY	DATE	REMARKS
4	RLW	7-11-18	REVISED PER TRC COMMENTS
3	RLW	5-29-18	REVISED PER TRC COMMENTS
2	RLW	5-7-18	REVISED PER TRC COMMENTS
1	RLW	3-27-18	REVISED PER TRC COMMENTS

DATE: 1-22-18
 HORZ. SCALE: 1" = 10'
 VERT. SCALE: N/A
 DRAWN BY: RLW
 CHECKED BY: HSR
 PROJECT NO.: 17-0434
 RECEIVED
 AUG 6 2018
 PLANNING DIVISION



456 34 1241 80

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

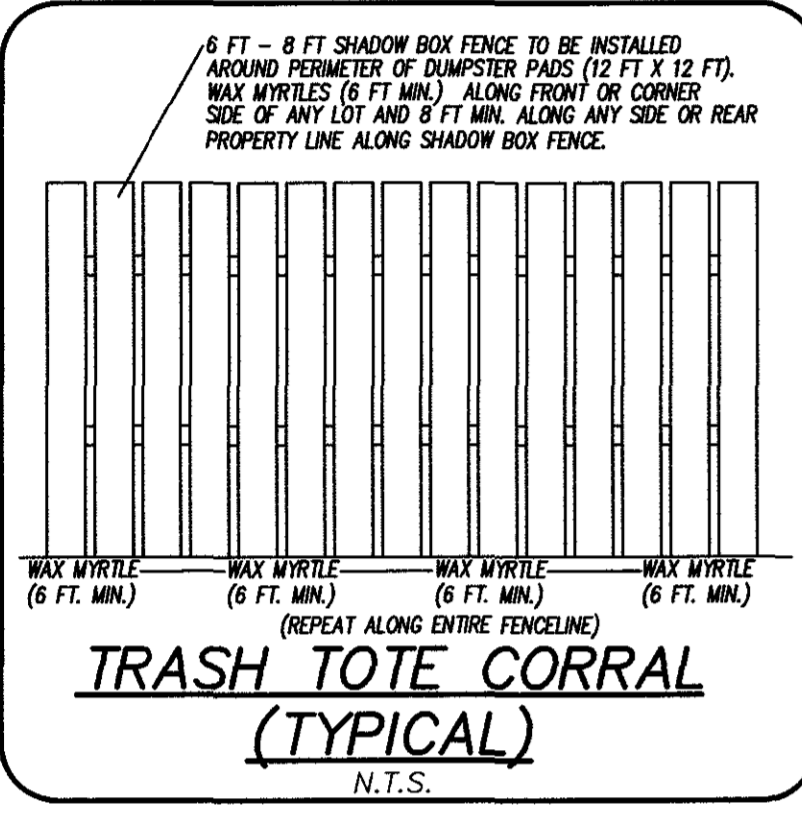
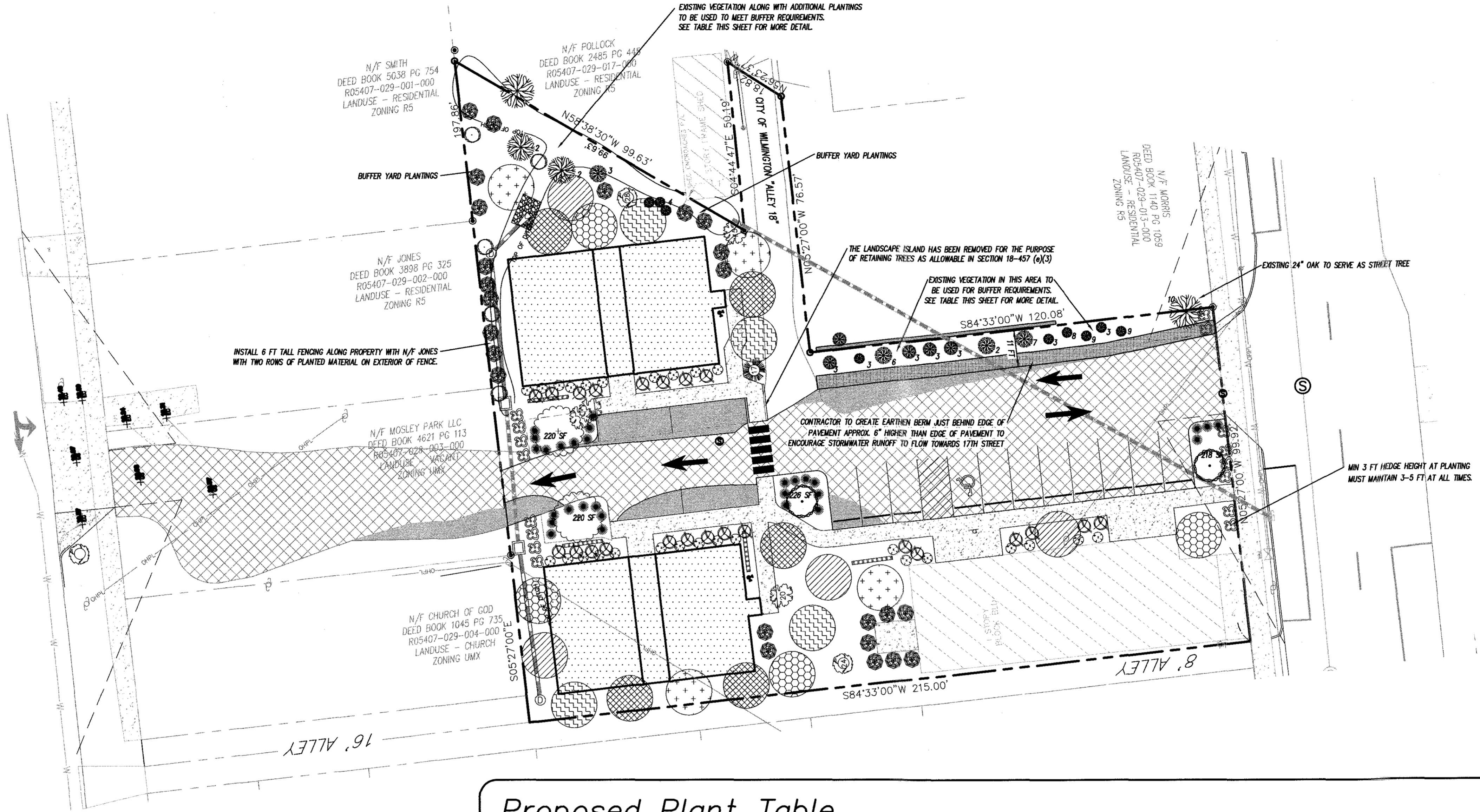
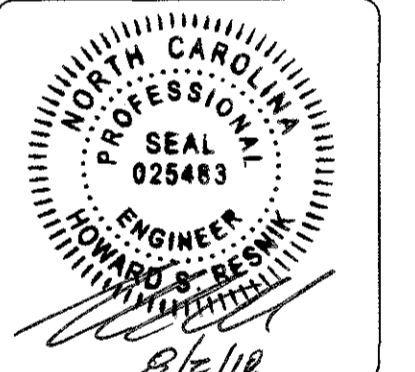
City of WILMINGTON
NORTH CAROLINA
Public Services - Engineering Division
APPROVED DRAINAGE PLAN
Date: 08/06/2018 Permit # 2018033
Signed: *Travis Bollen* for RAC

Approved Construction Plan
Name: _____ Date: _____
Planning: *unc* 8/16/2018
Traffic: *W. G. M. 8-6-18*
Fire: *George M. 8-6-18*

CSD ENGINEERING
LICENSE # C-2710
ENGINEERING
LAND PLANNING
COMMERCIAL / RESIDENTIAL
P.O. BOX 4041
WILMINGTON, NC 28406
(910) 791-4441

LANDSCAPE PLAN
STUDIO 17 APARTMENTS

LANDSCAPE PLAN
STUDIO 17 APARTMENTS
LOCATED IN CITY OF WILMINGTON
NEW HANOVER COUNTY, NORTH CAROLINA
OWNER: MOSLEY PARK, LLC
1319 MILITARY CUTOFF
SUITE CC PMB 172
WILMINGTON, NC 28405



LANDSCAPING NOTES:

FOUNDATION PLANTINGS
NORTH SIDE
BUILDING FACE = 1,800 SF
1,800 X 0.12 = 216 SF REQ'D, 216 SF PROVIDED.
SOUTH SIDE
BUILDING FACE = 1,800 SF
1,800 X 0.12 = 216 SF REQ'D, 216 SF PROVIDED.
EX. BUILDING
BUILDING FACE = 2,400 SF
2,400 X 0.12 = 288 SF REQ'D, 288 SF PROVIDED.

STREET TREES
100 - 24 = 78 FT
76 / 30 = 2.5 STREET TREES REQUIRED
REQUESTING PAYMENT IN LIEU FOR STREET TREES DUE TO SITE CONSTRAINTS. LESS THAN 3 FT FROM BACK OF CURB TO EXISTING SIDEWALK.

PARKING LOT SHADING
20% SHADING REQ'D FOR PARKING AREAS.
7,218 PARKING AREA X 20% = 1,444 SF REQ'D CANOPY
= 707 SF FOR CANOPY TREE

1,444 / 707 = 2.0 OR 2 CANOPY TREES, 2 CANOPY TREES PROVIDED.

TREE MITIGATION
SEE EXISTING CONDITIONS SHEET
338 - 13 = 20.6 MITIGATION TREES REQUIRED.
21 MITIGATION TREES SHOWN

NOTES:
1. ALL PROPOSED VEGETATION WITHIN SIGHT TRIANGLES SHALL NOT INTERFERE WITH CLEAR VISUAL SIGHT LINES FROM 30 INCHES - 10 FT.
2. STREET YARD SHRUBS SHALL BE AT LEAST 3 FEET IN HEIGHT AT TIME OF PLANTING.
3. UNDERSTORY STREET YARD TREES MUST BE 8 - 10 FEET IN HEIGHT AT TIME OF PLANTING.
4. PRIOR TO ANY CLEARING, GRADING OR CONSTRUCTION ACTIVITY, TREE PROTECTION FENCING WILL BE INSTALLED AROUND PROTECTED TREES OR GROVES OF TREES.
5. ALL LANDSCAPE ISLANDS TO INCLUDE GROUND COVER PLANTINGS.

EXISTING BUFFER VEGETATION

ID #	DESCRIPTION
2	OLEANDER
3	LIGUSTRUM
4	POPLAR SHRUBS
6	PECAN TREE
7	14" OAK
8	GRAPE MYRTLE
9	PALM
10	24" LIVE OAK

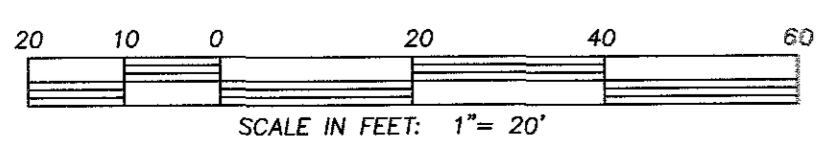
NOTE: APPROXIMATE LOCATION AND DESCRIPTION OF EXISTING VEGETATION PROVIDED TO CSD ENGINEERING BY OWNERS.

Proposed Plant Table

SHRUBS					
Quantity	Symbol	Scientific Name	Common Name	Planting Size	Planting Remarks
16		<i>Ilex crenata</i>	STEEDS HOLLY	MIN. 3 FT IN HEIGHT	PARKING AREA SCREENING
INTERIOR PARKING TREE					
Quantity	Symbol	Scientific Name	Common Name	Planting Size	Planting Remarks
2		<i>Ulmus parvifolia</i>	ALLEE ELM	3" DBH	INTERIOR TREE
FOUNDATION PLANTING					
Quantity	Symbol	Scientific Name	Common Name	Planting Size	Planting Remarks
23		<i>Ilex vomitoria</i>	DWARF YALPON	3 GAL.	FOUNDATION
30		<i>Muhlenbergia capillaris</i>	PINK MUHLY	3 GAL.	FOUNDATION
SHADE TREES					
Quantity	Symbol	Scientific Name	Common Name	Planting Size	Planting Remarks
2		<i>Quercus virginiana</i>	SOUTHERN LIVE OAK	3" DBH	PARKING SHADING
DUMPSTER CORRAL & HVAC SCREENING					
Quantity	Symbol	Scientific Name	Common Name	Planting Size	Planting Remarks
11		<i>Myrica cerifera</i>	WAX MYRTLE	7 Gal.	SCREENING

MITIGATION TREES					
Quantity	Symbol	Scientific Name	Common Name	Planting Size	Planting Remarks
5		<i>Lagerstroemia indica</i>	GRAPE MYRTLE	3" DBH	MITIGATION
4		<i>Carpinus caroliniana</i>	AMERICAN HORNBEAM	3" DBH	MITIGATION
4		<i>Ulmus americana 'Princeton'</i>	PRINCETON ELM	3" DBH	MITIGATION
4		<i>Ulmus propinqua</i>	EMERALD SUNSHINE ELM	3" DBH	MITIGATION
4		<i>Ginkgo biloba (male only)</i>	GINKGO	3" DBH	MITIGATION
BUFFER YARD					
Quantity	Symbol	Scientific Name	Common Name	Planting Size	Planting Remarks
5		<i>Nyssa sylvatica</i>	BLACK GUM	3" DBH	BUFFER YARD
13		<i>Myrica cerifera</i>	WAX MYRTLE	7 Gal.	BUFFER YARD

O.C. - "ON CENTER" CAL. - "CALIPER AT 6" ABOVE GRADE" GAL. - "GALLON CONTAINER"
STREET YARD SHRUBS SHALL BE AT LEAST 12" HEIGHT AT PLANTING.



REV. NO.	DATE	BY	REMARKS
6	8-2-18	MB	REVISION PER CITY COMMENTS
5	7-25-18	MB	REVISION PER THE COMMENTS
4	7-11-18	RLW	REVISION TREE MITIGATION CALC & ADDED TREE
3	6-19-18	MB	REVISION EXISTING TREES & PROPOSED PLANTINGS
2	5-29-18	MB	REVISION PER THE COMMENTS
1	5-7-18	MB	REVISION PER THE COMMENTS

DATE: 3-1-18
HORZ. SCALE: 1" = 20'
VERT. SCALE: N/A
DRAWN BY: RLW
CHECKED BY: HSR
PROJECT NO.: 17-0434

Sheet No. **LP LP** of **LP LP**