

VICINITY MAP

R06206-007-004-000
5709 OLEANDER DR.
ZONED O&I-1
RESTAURANT
MARO ENTERPRISES LLC

R06207-003-018-000
5725 OLEANDER DR.
ZONED CB
CONDOMINIUM COMMON AREA
OLEANDER OAKS CONDOMINIUM

LEGEND	1. GROUND STABILIZATION	STABILIZATION TIME FRAME	STABILIZATION TIME FRAME EXCEPTIONS
[Hatched Box]	SITE AREA DESCRIPTION		
[Hatched Box]	PERIMETER DIKES, SWALES, DITCHES AND SLOPES	7 DAYS	NONE
[Hatched Box]	HIGH QUALITY WATER (HOW) ZONES.	7 DAYS	NONE
[Hatched Box]	SLOPES STEEPER THAN 3:1	7 DAYS	IF SLOPES ARE 10' OR LESS IN LENGTH AND ARE NOT STEEPER THAN 2:1, 14 DAYS ARE ALLOWED
[Hatched Box]	SLOPES 3:1 OR FLATTER	14 DAYS	7 DAYS FOR SLOPES GREATER THAN 50' IN LENGTH.
[Hatched Box]	ALL OTHER AREAS WITH SLOPES FLATTER THAN 4:1	14 DAYS	NONE (EXCEPT FOR PERIMETERS AND HOW ZONES).

2. BUILDING WASTES HANDLING
 - NO PAINT OR LIQUID WASTES IN STREAM OR STORM DRAINS
 - DEDICATED AREA FOR DEMOLITION, CONSTRUCTION AND OTHER WASTES MUST BE LOCATED 50' FROM STORM DRAINS AND STREAMS UNLESS NO ALTERNATIVE IS AVAILABLE.
 - EARTHEN MATERIALS STOCKPILES MUST BE LOCATED 50' FROM STORM DRAINS AND STREAMS UNLESS NO REASONABLE ALTERNATIVE IS AVAILABLE
 - CONCRETE MATERIALS MUST BE CONTROLLED TO AVOID CONTACT WITH SURFACE WATERS, WETLANDS, OR BUFFERS.
3. INSPECTIONS
 - SAME WEEKLY INSPECTION REQUIREMENTS
 - SAME RAIN GAUGE AND INSPECTIONS AFTER 0.5" RAIN EVENT
 - INSPECTIONS ARE ONLY REQUIRED DURING "NORMAL BUSINESS HOURS"
 - RECORDS MUST BE KEPT FOR 3 YEARS AND AVAILABLE UPON REQUEST
 - ELECTRONICALLY AVAILABLE RECORDS MAY BE SUBSTITUTED UNDER CERTAIN CONDITIONS

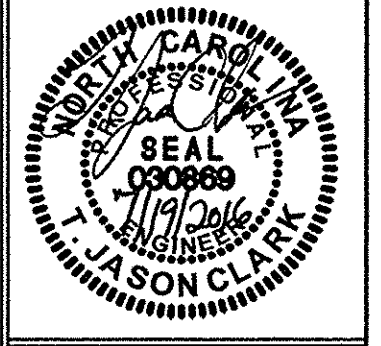
SYMBOL	DATE	DESCRIPTION	BY
		REVISIONS	

GRADING, DRAINAGE, EROSION CONTROL AND UTILITIES PLAN
WELLS INSURANCE OLEANDER DR. SITE
5712 OLEANDER DRIVE
WILMINGTON, N. C.

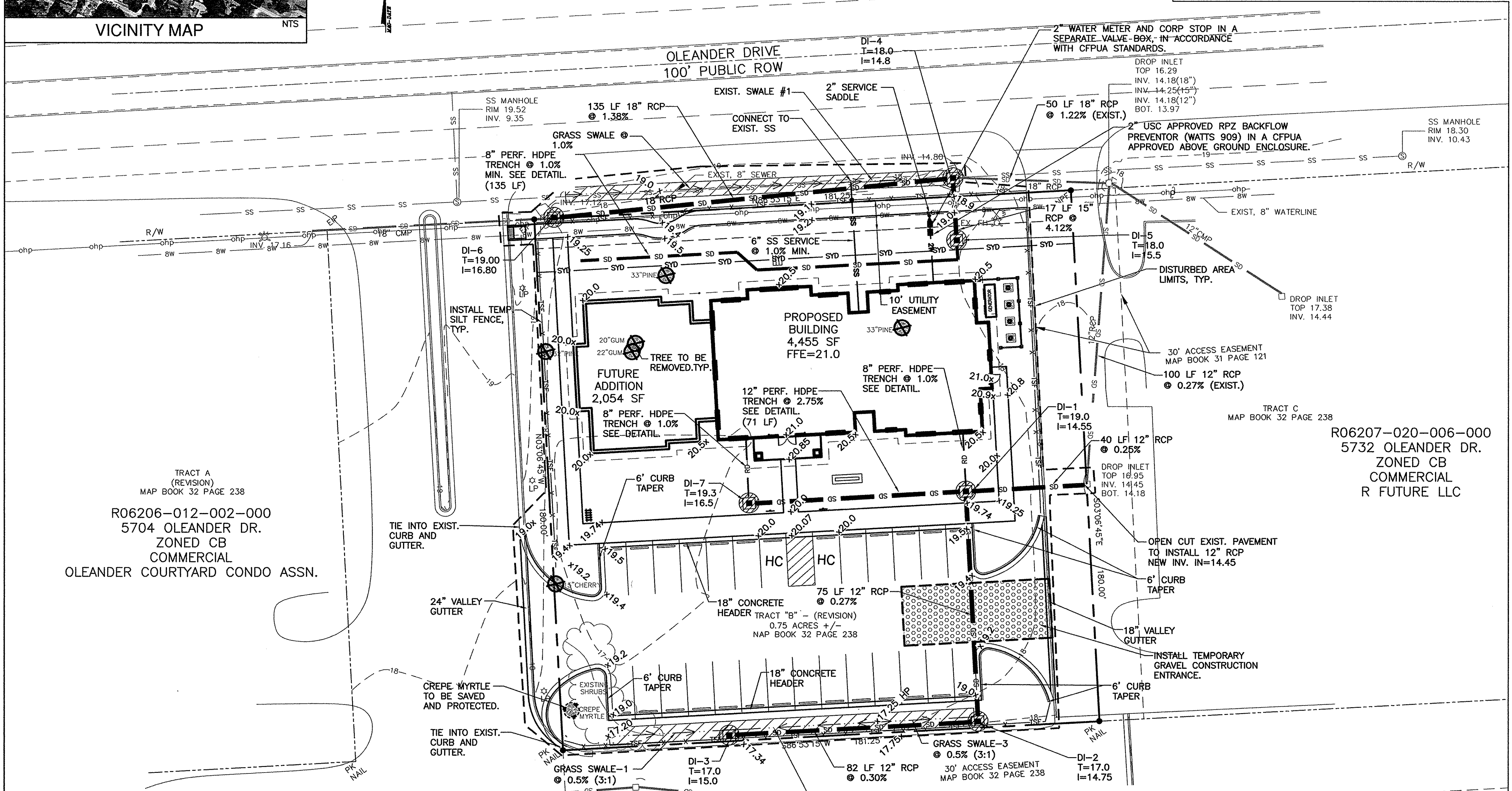
OWNER/DEVELOPER
TRAFORD W. WELLS, IV, MANAGER
WELLS REAL ESTATE HOLDINGS, LLC
1 NORTH THIRD STREET
WILMINGTON, NC 28401
910 251-5402

NORRIS & TUNSTALL
CONSULTING ENGINEERS, P.C.
1429 ASH-LITTLE RIVER RD. NW
WILMINGTON, NC 28420
PHONE (910) 287-5900
license #C-3641

15005
DES. JST
CHK. JPN
DRWN. NKS
DATE 7/19/16



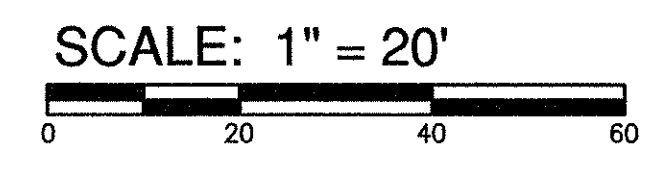
C1.1



SITE DATA TABLE	
EXISTING PARCEL ID#:	R06206-012-011-000
EXISTING PARCEL PIN#:	314608.78.9926.000
SITE ADDRESS:	5712 OLEANDER DRIVE
PARCEL OWNER:	WELLS REAL ESTATE HOLDINGS LLC
EXISTING PARCEL AREA:	0.75 AC (32,625 SF)
PROPOSED PARCEL USE:	OFFICE
CURRENT ZONING:	CB-COMMUNITY BUSINESS
CAMA LAND CLASSIFICATION:	WATERSHED RESOURCE PROTECTION
SOIL TYPE:	Se (HYDROLOGIC SOIL GROUP "A")
BUILDING SETBACKS CB:	FRONT SETBACK: 20' INTERIOR SIDE SETBACK: 10' CORNER SIDE SETBACK: 20' REAR SETBACKS: 10'
BUILDING SETBACKS PROPOSED:	FRONT SETBACK: 27' SIDE SETBACK EAST: 30' SIDE SETBACK WEST: 11' REAR SETBACKS: 100'
BUILDING AREA (FOOTPRINT):	4,455 SF PROPOSED 2,054 SF FUTURE ADDITION 6,509 SF TOTAL
MAX. LOT COVERAGE CB:	30%
PROPOSED LOT COVERAGE:	20.00% (INCLUDES FUTURE ADDITION)
BUILDING HEIGHT:	25'±
BUILDING CONSTRUCTION TYPE:	VB
TOTAL IMPERVIOUS AREA:	
EXISTING ASPHALT:	2,720 SF
PROPOSED BUILDING:	6,509 SF (FOOTPRINT)
PERVIOUS PAVEMENT PARKING AND DRIVE ISLE:	8,126 SF
PERVIOUS PAVEMENT SIDEWALK:	1,950 SF
CONCRETE CURB AND GUTTER:	850 SF
CONCRETE SIDEWALK:	840 SF
TOTAL FOR SITE:	20,995 SF
% IMPERVIOUS:	64.35%
TOTAL NEW ON-SITE IMPERVIOUS AREA (AFTER 75% CREDIT):	
PROPOSED BUILDING:	6,509 SF (FOOTPRINT)
PERVIOUS PAVEMENT PARKING AND DRIVE ISLE:	2,032 SF
PERVIOUS PAVEMENT SIDEWALK:	488 SF
CONCRETE CURB AND GUTTER:	850 SF
TOTAL FOR SITE:	*9,879 SF
% IMPERVIOUS:	30.28%
*DOES NOT INCLUDE REQUIRED CONCRETE SIDEWALK ALONG OLEANDER DR. THAT SHOULD BE IN THE ROW. CONCRETE SIDEWALK SHALL BE LOCATED WITHIN A PUBLIC/PEDESTRIAN ACCESS EASEMENT.	
PARKING REQUIREMENT	
PARKING REQ'D: OFFICE	1/200 MAX, 1/300 MIN.
TOTAL PARKING REQUIRED:	33 MAX, 22 MIN.
PARKING PROPOSED	27 TOTAL
ACCESSIBLE PARKING REQUIRED	2
ACCESSIBLE PARKING PROPOSED	2
BICYCLE PARKING REQUIRED	5
BICYCLE PARKING PROPOSED	5
LANDSCAPING REQUIREMENTS (REFER TO LANDSCAPE PLAN)	
15 TREES PER DISTURBED ACRE REQUIRED	
STREETYARD LANDSCAPING: 18 MULTIPLIER	
181.25-15 (18) = 2,993 SF REQUIRED 2,993 SF PROPOSED	
FOUNDATION PLANTINGS: 12% FACE OF BUILDING X LENGTH	
TRASH REMOVAL WILL BE BY HANDCART	
WATER AND SEWER CAPACITY NEEDS	
PER 2T RULES: 25 GAL/EMPLOYEE (OFFICE USE)	
25 EMPLOYEES @ 25 GAL/EMPLOYEE/DAY=625 GPD	
DISTURBED AREA: 0.76 AC	

LEGEND	
[Dashed Line]	PROPERTY LINE
[Dotted Line]	DISTURBED AREA LIMITS
[X-X]	TEMPORARY SILT FENCE
[SD-SD]	PROPOSED STORMDRAIN PIPE
[2W-2W]	PROPOSED WATERLINE
[SS-SS]	PROPOSED FINISH GRADE
[Spot]	PROPOSED FINISH GRADE SPOT ELEVATION
[DI]	DROP INLET WITH INLET PROTECTION (DI)
[19]	EXISTING CONTOUR
[Tree]	EXISTING TREE TO BE SAVED AND PROTECTED
[Tree]	EXISTING TREE TO BE REMOVED
[Pattern]	PERVIOUS PAVEMENT
[Pattern]	CONCRETE

TREE REMOVAL TABLE	
SIGNIFICANT PINES	
33" (2)	
32" (1)	
SIGNIFICANT CHERRY	
15" (1)	
REGULATED GUMS	
20" (1)	
22" (1)	



City of WILMINGTON
Public Services - Engineering Division
APPROVED DRAINAGE PLAN

Date: _____ Permit # _____
Signed: _____

Approved Construction Plan

Name: _____ Date: _____

Planning: _____
Traffic: _____
Fire: _____

NC DENR PWSS WATER PERMIT #: _____ GPD
WATER CAPACITY: _____ GPD
DWQ SEWER PERMIT #: _____ GPD
SEWER CAPACITY: _____ GPD
SEWER SHED # AND PLANT: _____
SEWER TO FLOW THROUGH NEI: YES OR NO (CIRCLE ONE)

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

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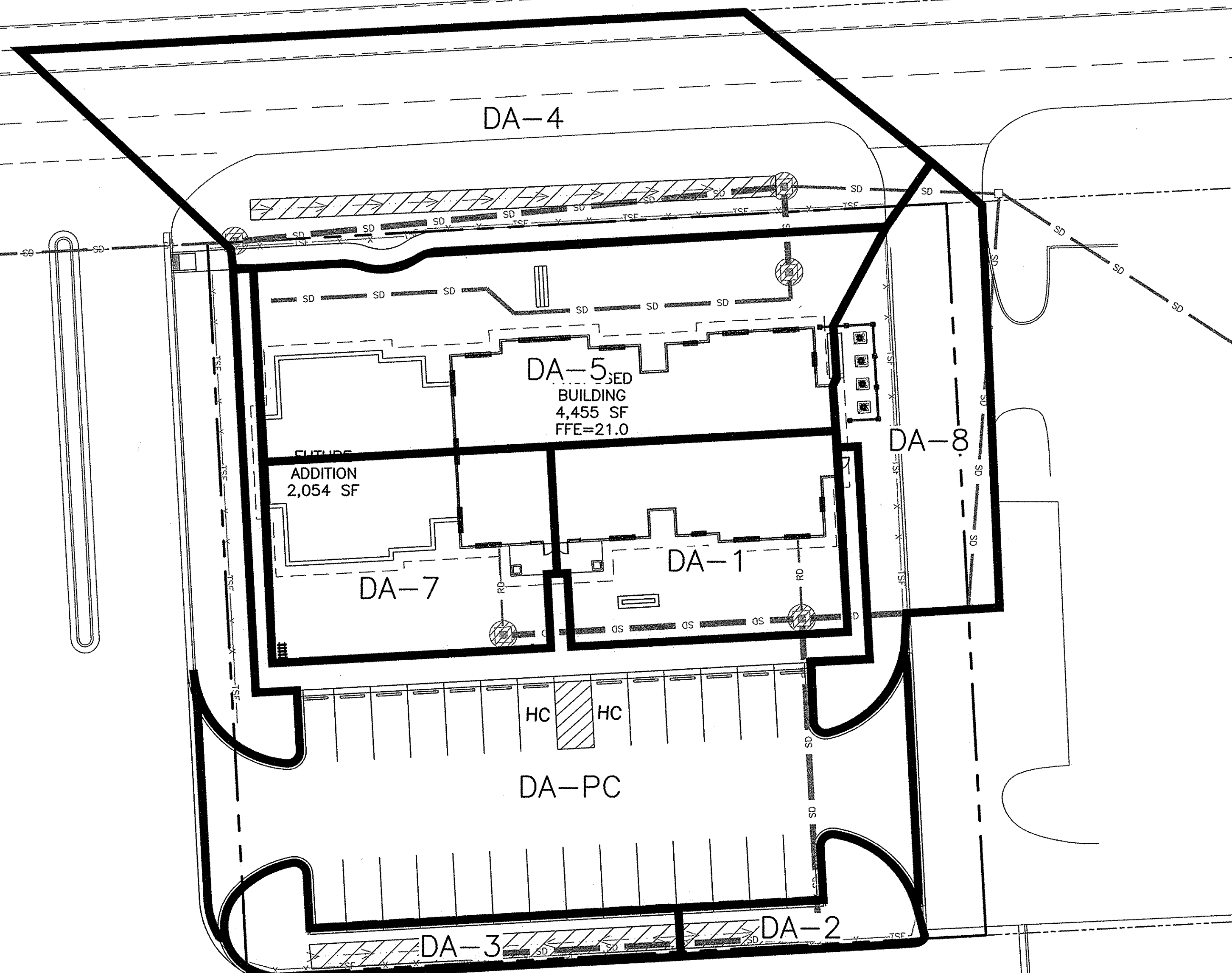
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ZONED CB
CONDOMINIUM COMMON AREA
OLEANDER OAKS CONDOMINIUM

R06206-012-002-000
5704 OLEANDER DR.
ZONED CB
COMMERCIAL
OLEANDER COURTYARD CONDO ASSN.

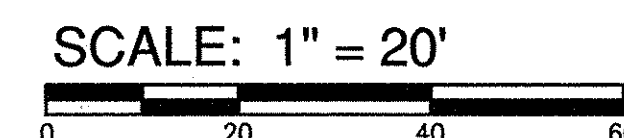
R06207-020-006-000
5732 OLEANDER DR.
ZONED CB
COMMERCIAL
R FUTURE LLC

R06206-012-013-000
5710 OLEANDER DR.
ZONED CB
OLEANDER BUSINESS COMMON AREA
OBC COA INC



DRAINAGE AREA TABLE

	TOTAL AREA	IMP. AREA
DA-1	3,423 SF	1,722 SF
DA-2	955 SF	0 SF
DA-3	1,560 SF	0 SF
DA-4	9,850 SF	6,268 SF
DA-5	7,022 SF	3,337 SF
DA-7	3,438 SF	1,722 SF
DA-8	3,810 SF	2,400 SF
DA-PC	10,926 SF	850 SF

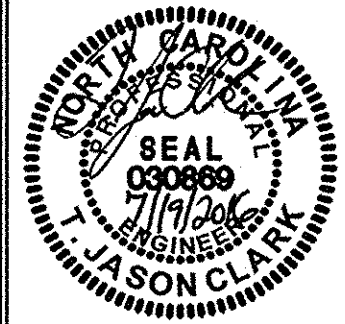


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Public Services • Engineering Division
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Date: _____ Permit # _____
Signed: _____

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.

NC DENR PWSS WATER PERMIT #: _____ GPD
WATER CAPACITY: _____ GPD
DWQ SEWER PERMIT #: _____
SEWER CAPACITY: _____ GPD
SEWER SHED # AND PLANT: _____
SEWER TO FLOW THROUGH NEK: YES OR NO (CIRCLE ONE)



C1.2

NORRIS & TUNSTALL
CONSULTING ENGINEERS, P.C.
902 MARKET STREET
WILMINGTON, NC 28401
PHONE (910) 343-9653
FAX (910) 343-3641
license #C-3641

1429 ASH-LITTLE RIVER RD. NW
ASH, NC 28420
PHONE (910) 287-5900

OWNER/DEVELOPER
WELLS IV, WELLS IV, MANAGER
WELLS REAL ESTATE HOLDINGS, LLC
1 NORTH THIRD STREET
WILMINGTON, NC 28401
910.281.9402

DRAINAGE AREA PLAN
WELLS INSURANCE OLEANDER DR. SITE
5712 OLEANDER DRIVE
WILMINGTON, N. C.

SYMBOL	DATE	DESCRIPTION	BY
		REVISIONS	

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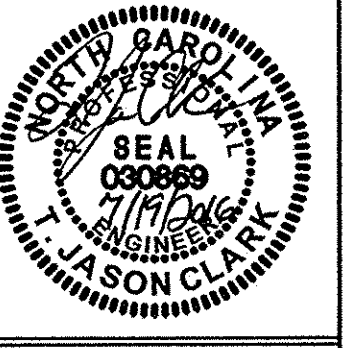
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LAYOUT PLAN
WELLS INSURANCE OLEANDER DR. SITE
5712 OLEANDER DRIVE
WILMINGTON, N. C.

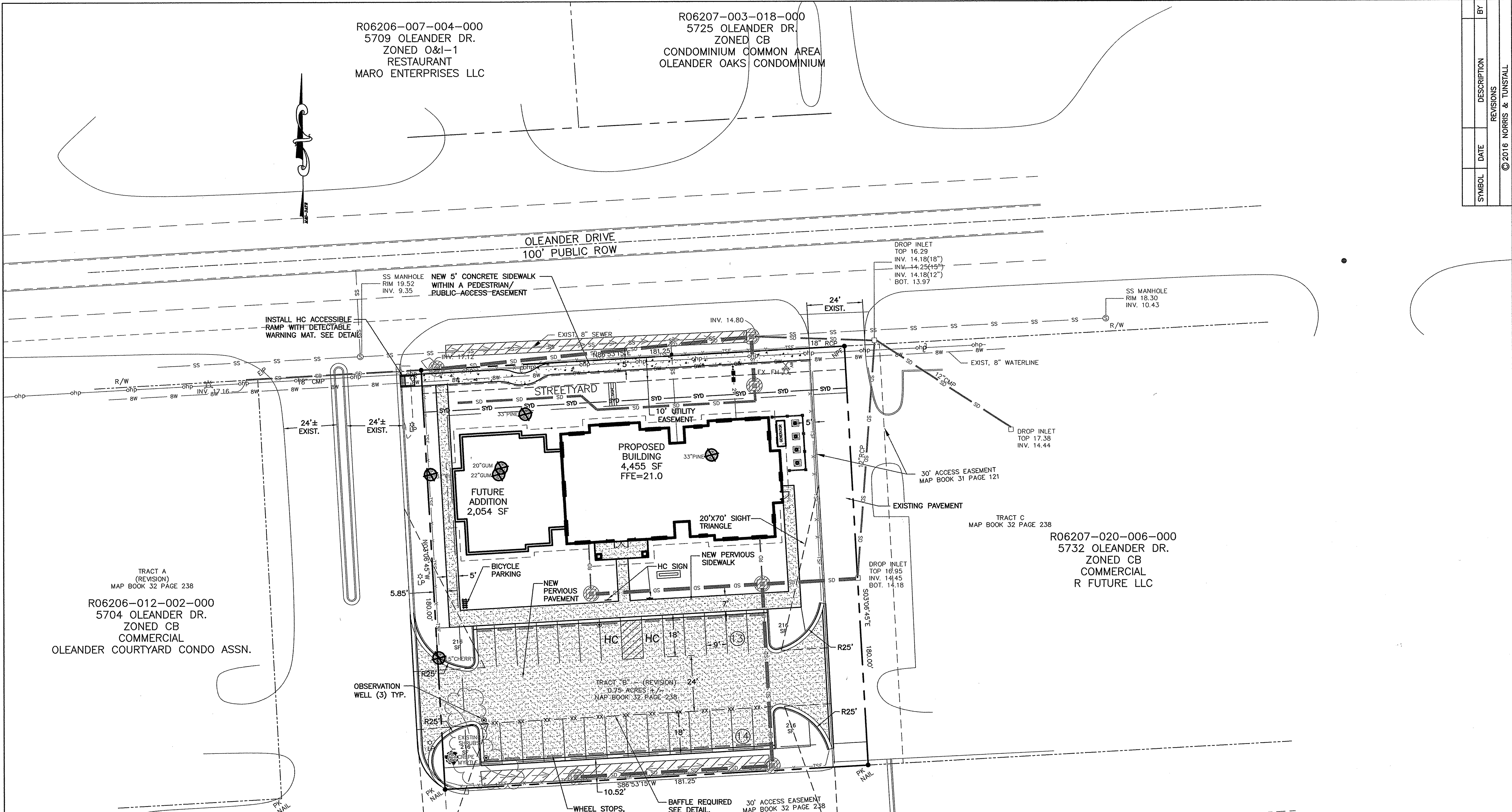
OWNER/DEVELOPER
HAROLD W. WELLS, IV, MANAGER
WELLS REAL ESTATE HOLDINGS, LLC
1 NORTH THIRD STREET
WILMINGTON, NC 28401
910.251-5402

NORRIS & TUNSTALL
CONSULTING ENGINEERS, P.C.
1429 ASH-LITTLE RIVER RD., NW
WILMINGTON, NC 28420
PHONE (910) 343-9653
FAX (910) 343-9653
LICENSE #C-3641

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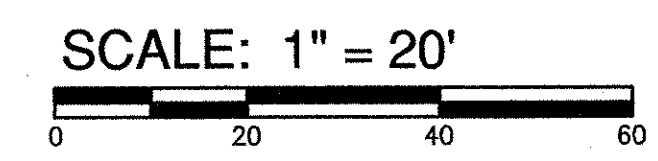


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LEGEND

	PROPERTY LINE
	DISTURBED AREA LIMITS
	TEMPORARY SILT FENCE
	PROPOSED STORMDRAIN PIPE
	PROPOSED WATERLINE
	PROPOSED SANITARY SEWER
	PROPOSED FINISH GRADE SPOT ELEVATION
	DROP INLET WITH INLET PROTECTION (DI)
	EXISTING CONTOUR
	EXISTING TREE TO BE SAVED AND PROTECTED
	EXISTING TREE TO BE REMOVED
	PERVIOUS PAVEMENT
	CONCRETE



City of WILMINGTON
Public Services • Engineering Division
APPROVED DRAINAGE PLAN

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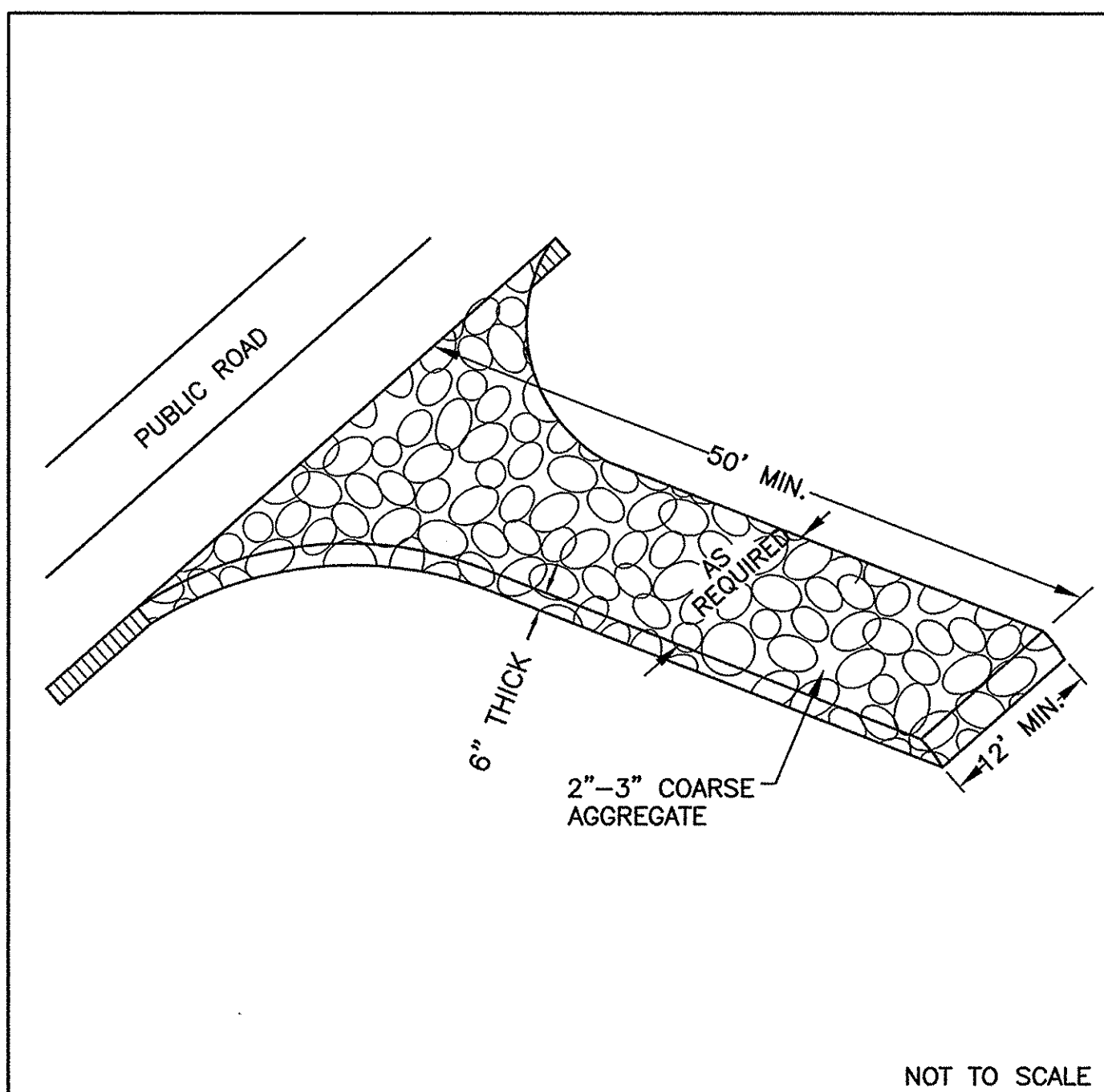
Approved Construction Plan

Name: _____ Date: _____

Planning: _____
Traffic: _____
File: _____

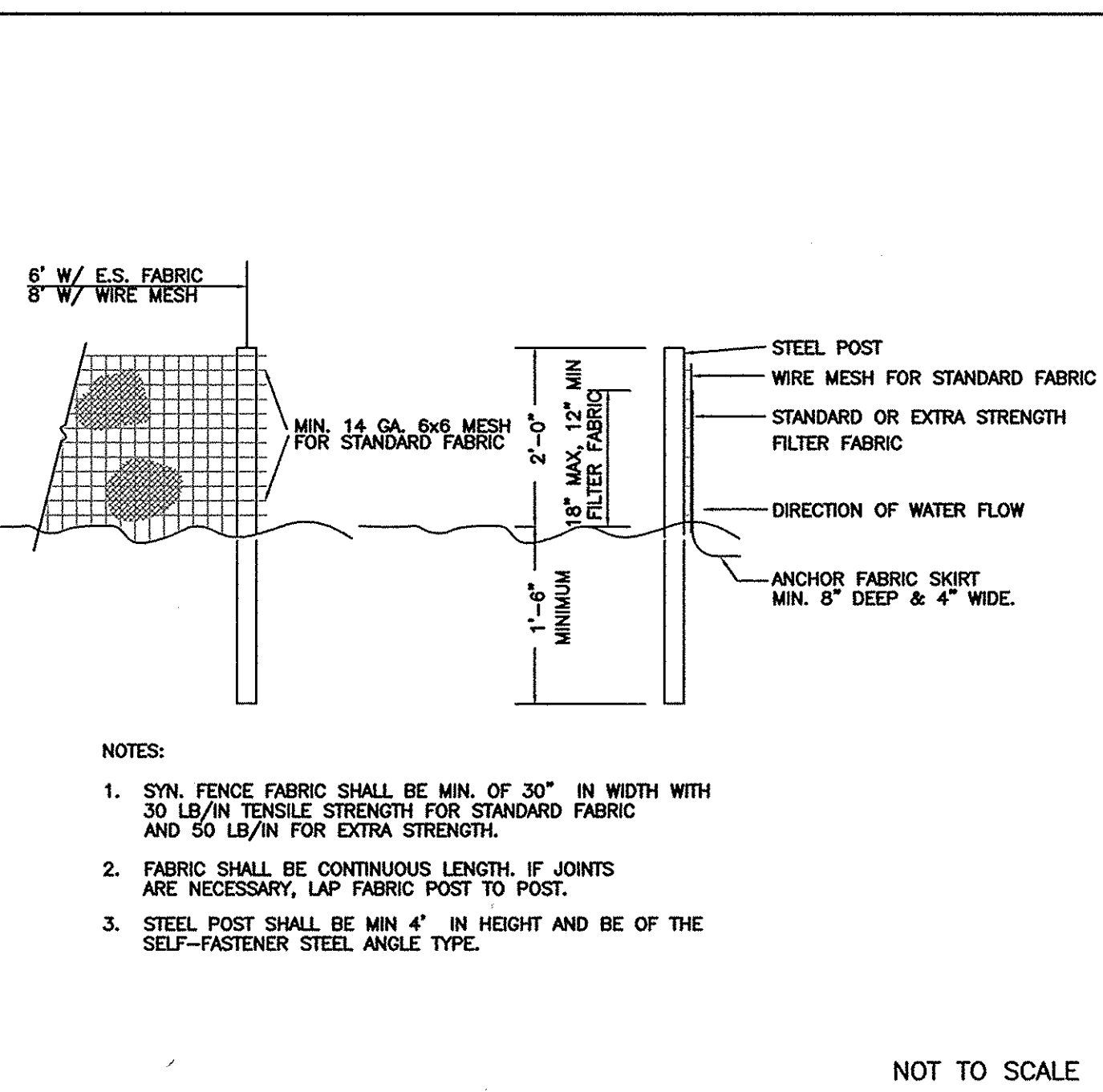
For each open utility cut of City streets, a \$225 permit shall be required from the City prior to occupancy and/or project acceptance.

NC DENR PWSS WATER PERMIT #: _____ GPD
WATER CAPACITY: _____ GPD
DWO SEWER PERMIT #: _____
SEWER CAPACITY: _____ GPD
SEWER SHED # AND PLANT: _____
SEWER TO FLOW THROUGH NEI: YES OR NO (CIRCLE ONE)



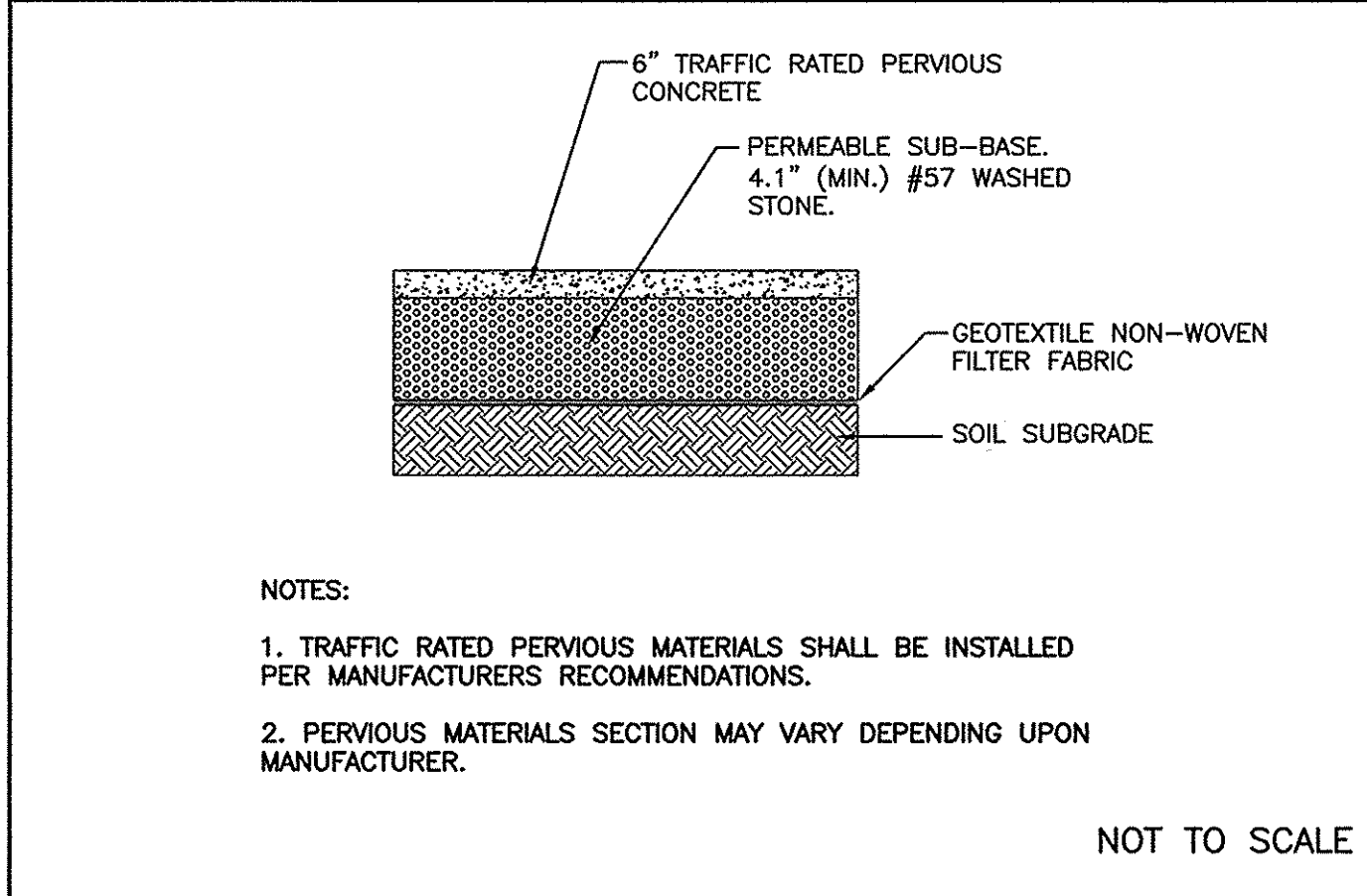
NOT TO SCALE

1 TEMPORARY GRAVELLED CONSTRUCTION ENTRANCE



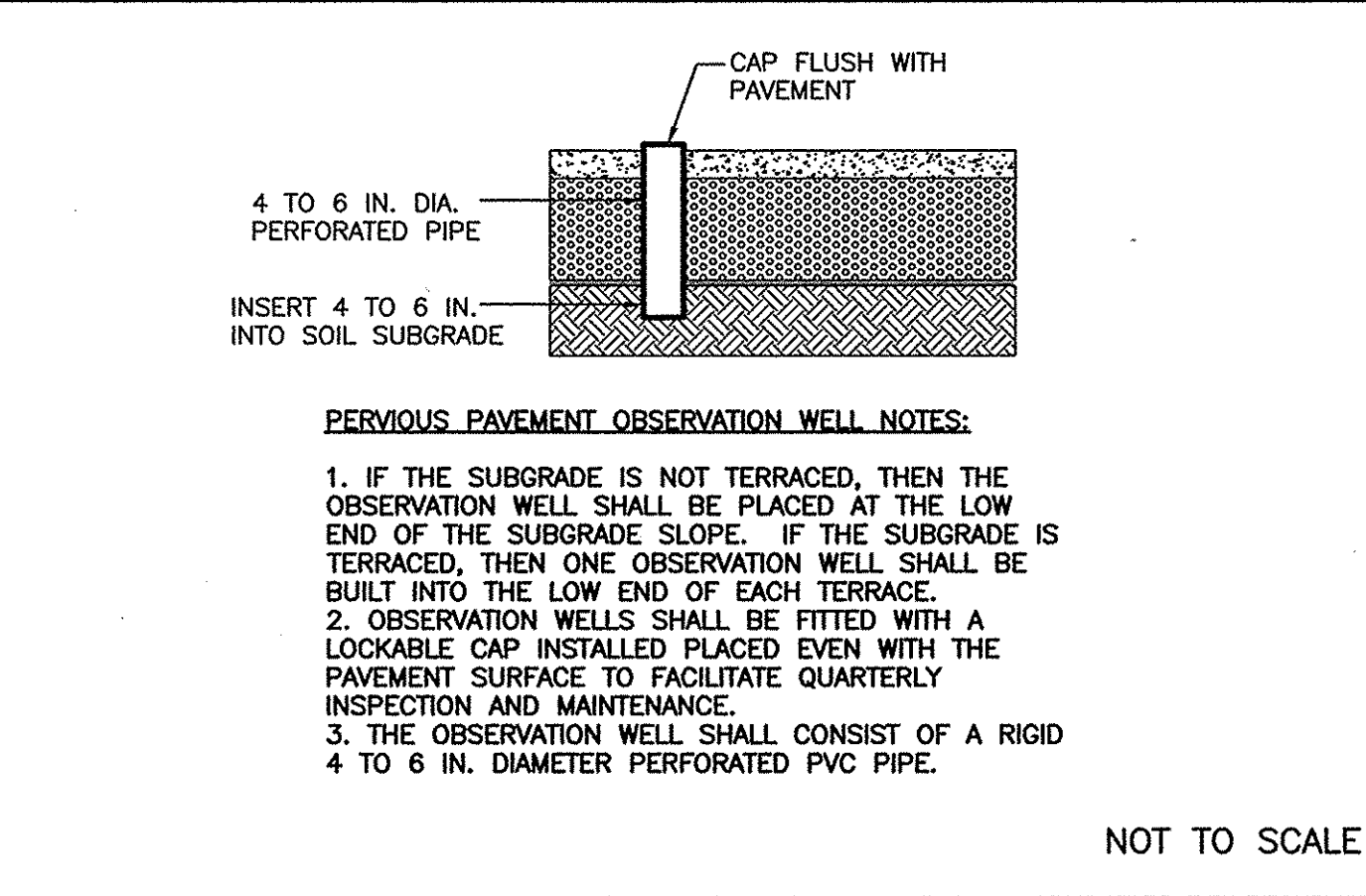
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2 TEMPORARY SILT FENCE



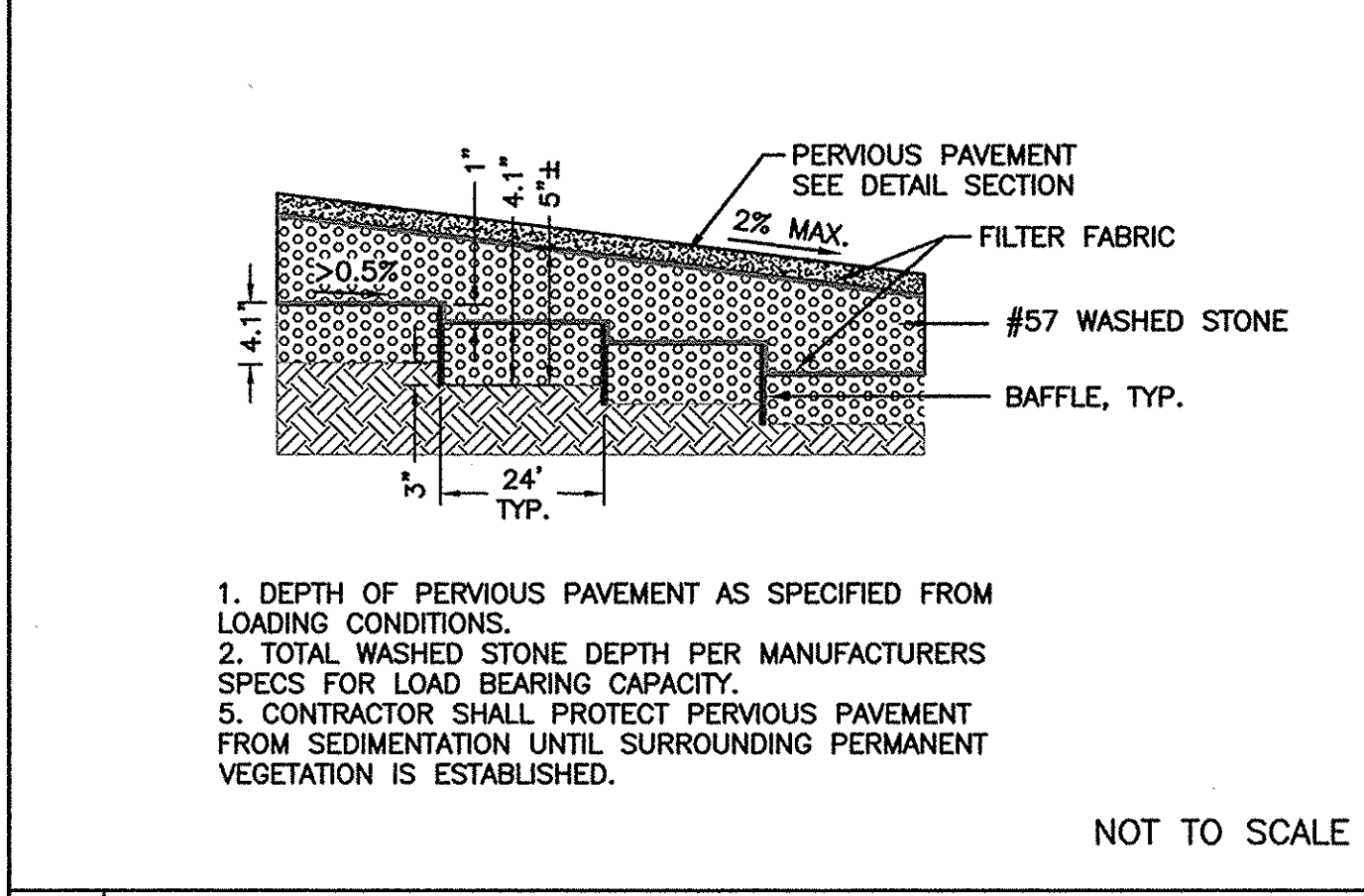
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3 PERVIOUS PAVEMENT SECTION



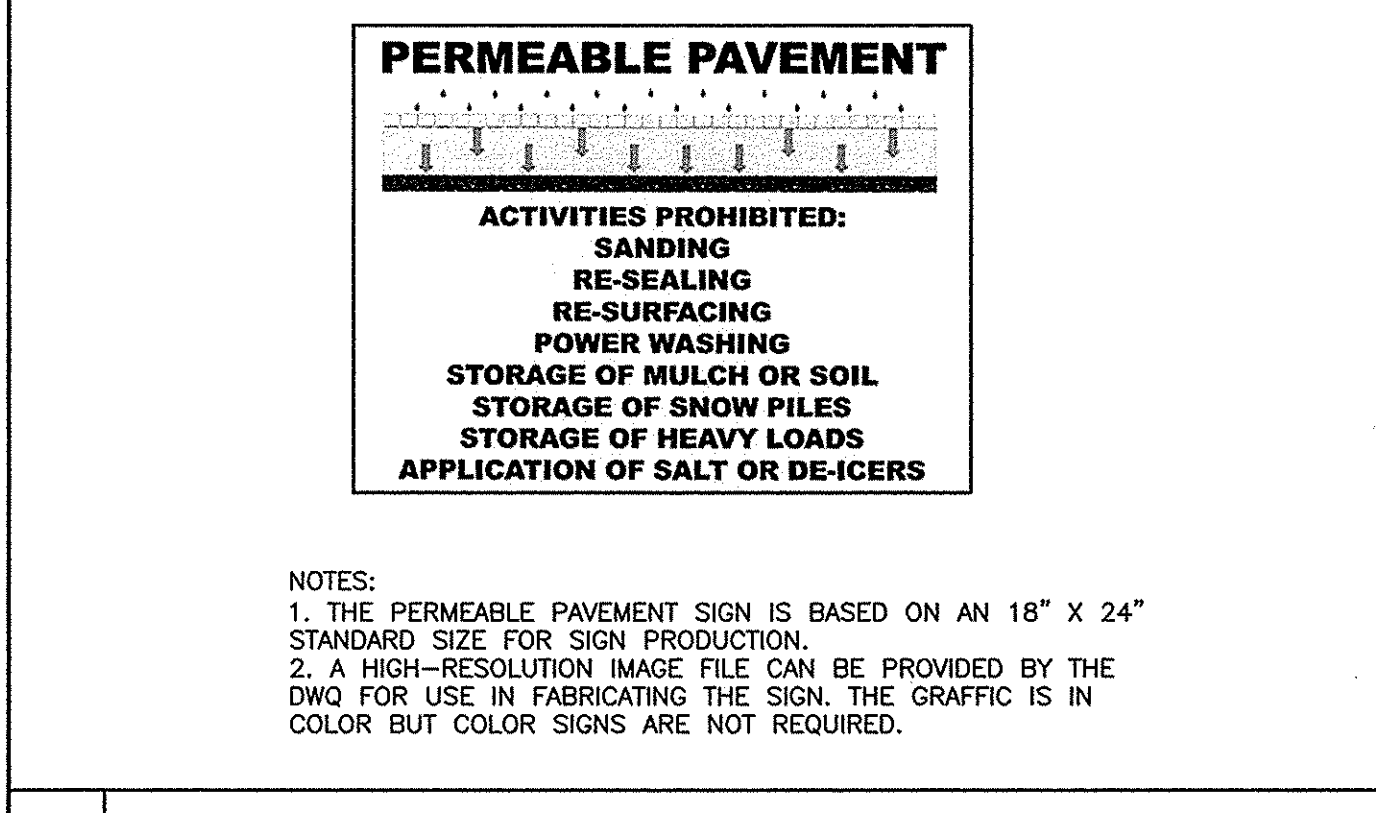
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4 PERVIOUS PAVEMENT OBSERVATION WELL DETAIL

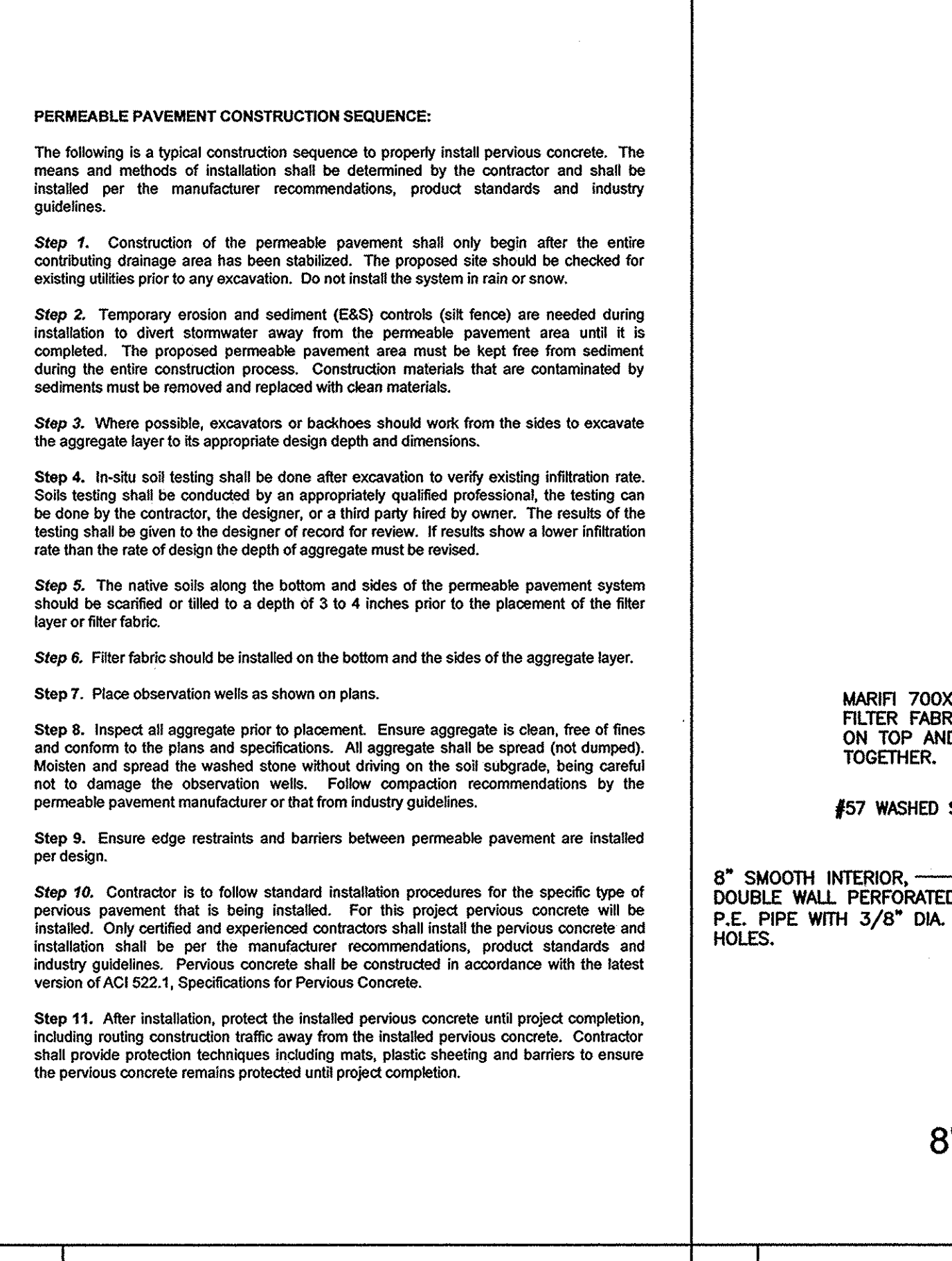


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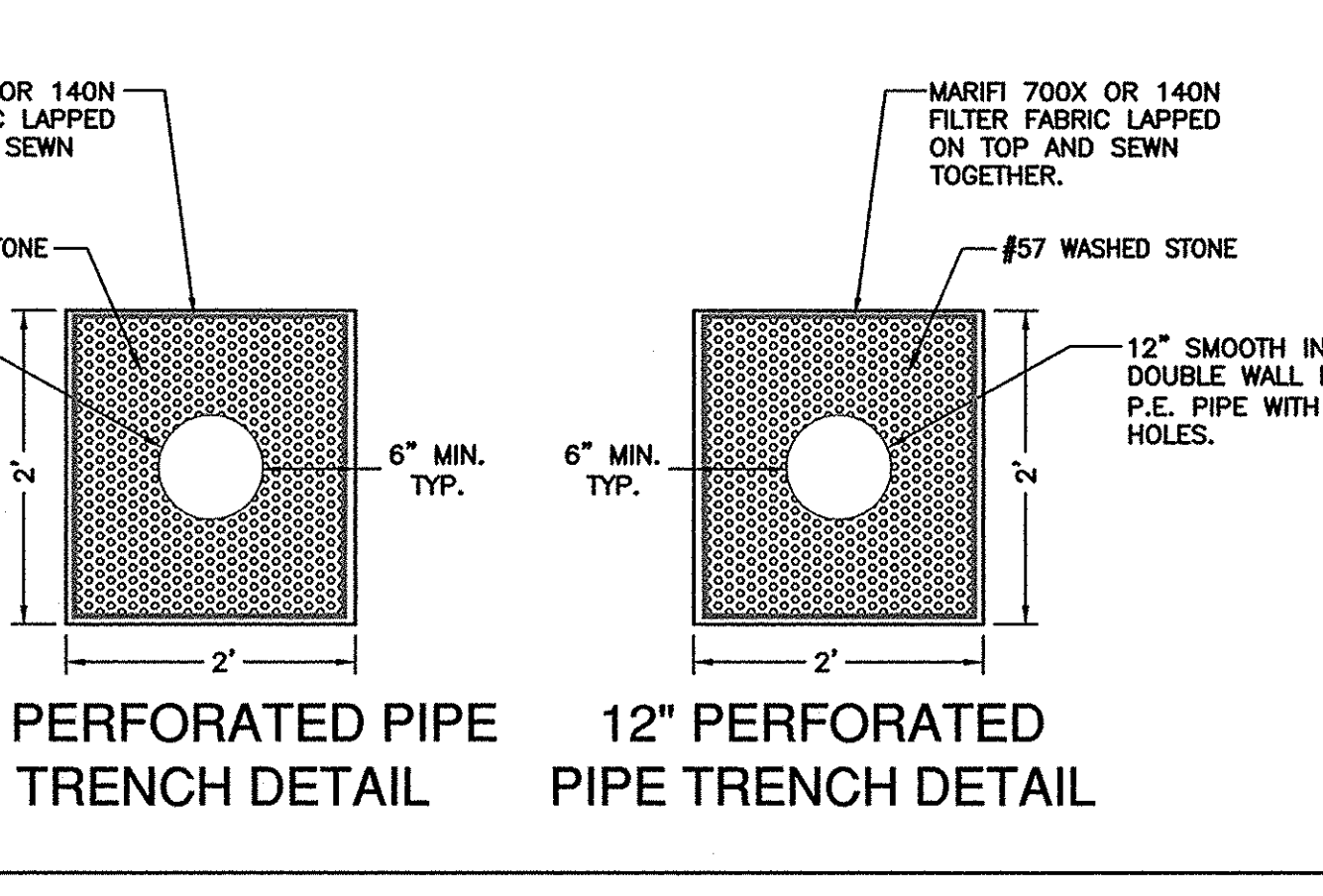
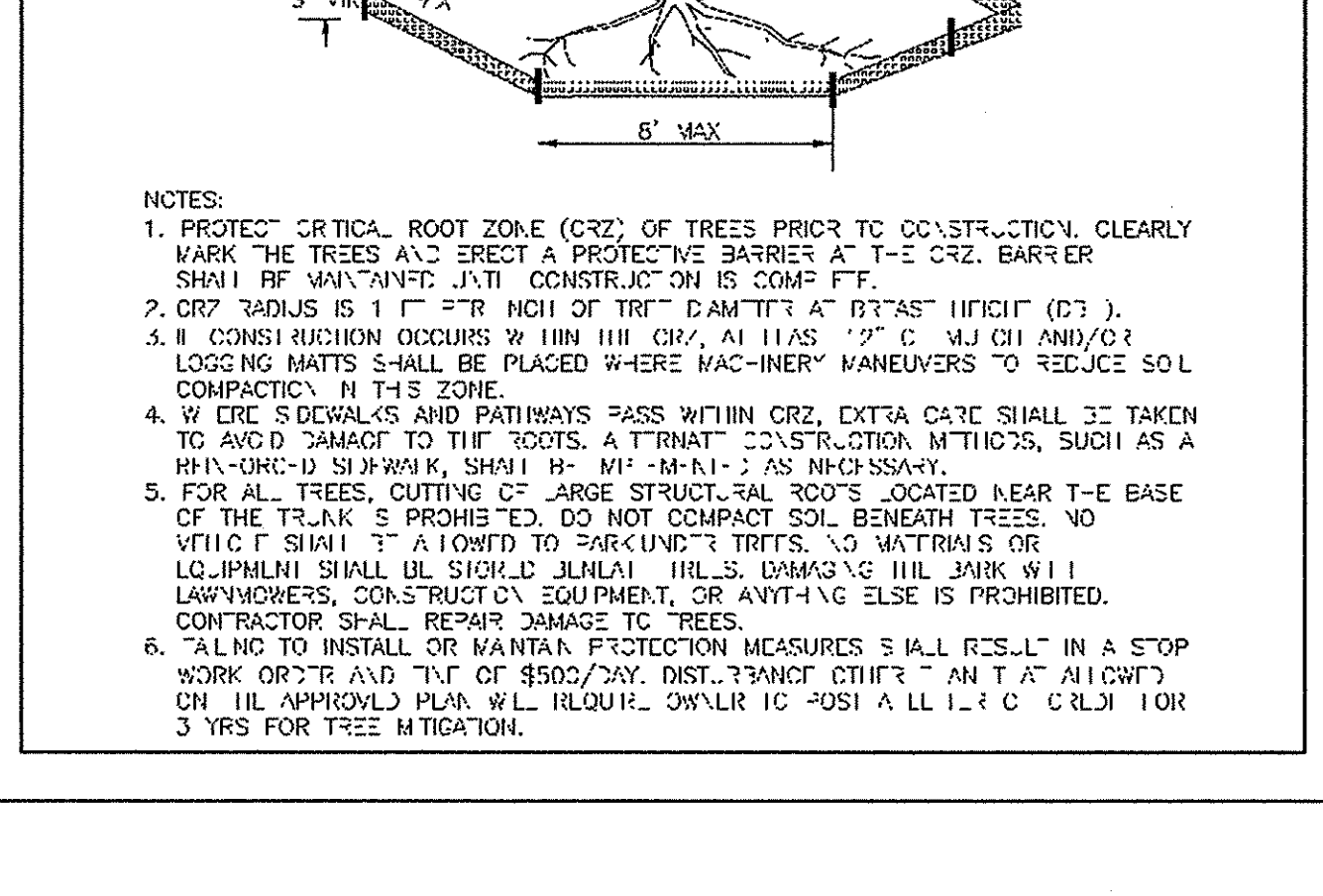
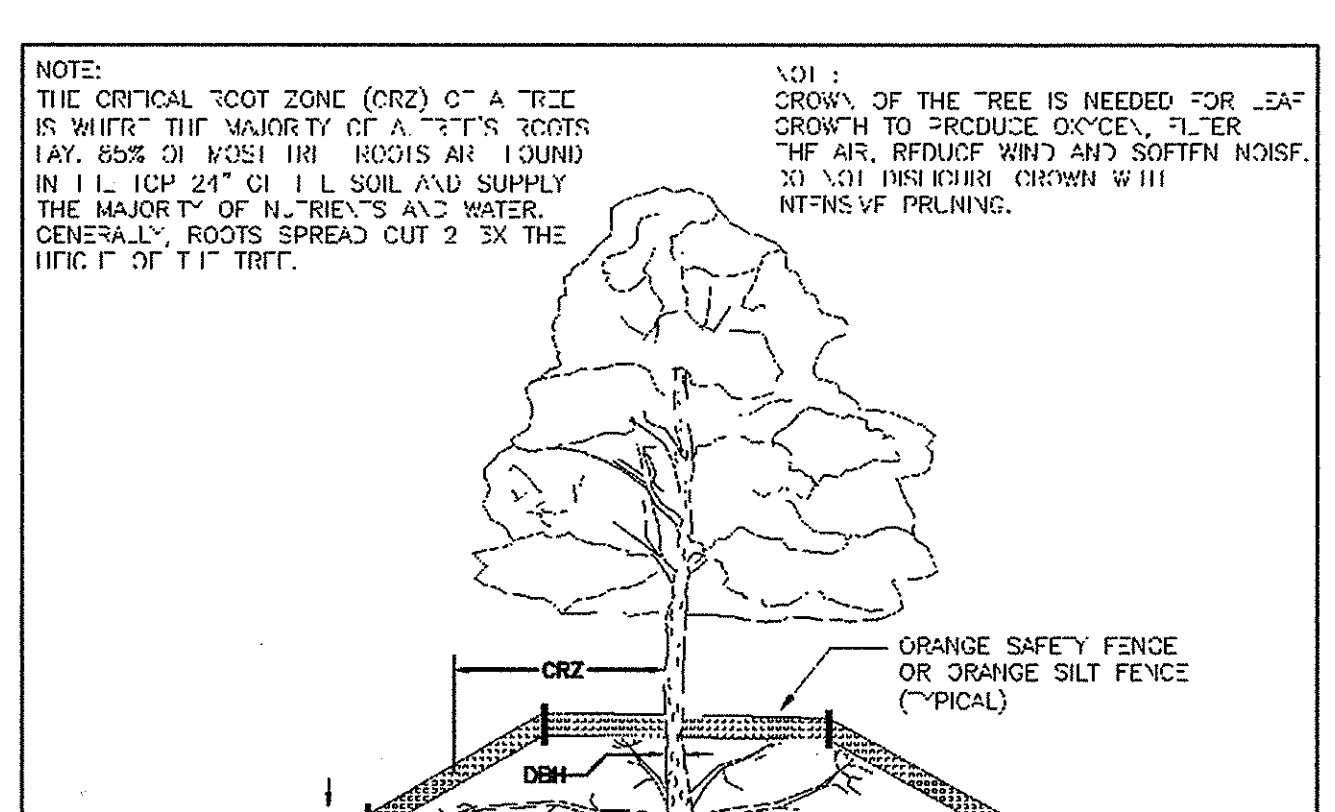
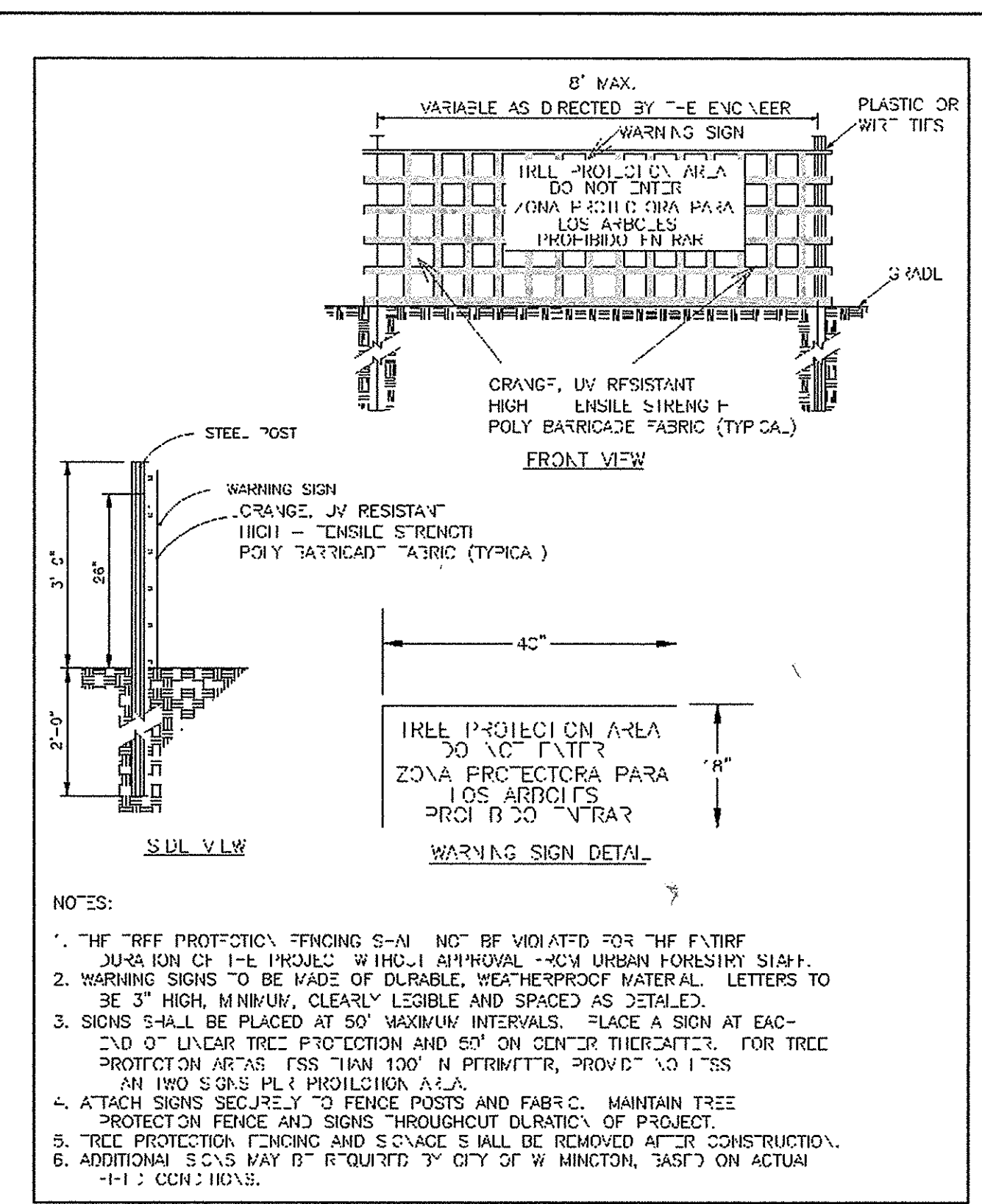
5 PERVIOUS PAVEMENT SECTION WITH BAFFLE



6 PERMEABLE PAVEMENT SIGNAGE DETAIL



7 PERMEABLE PAVEMENT CONSTRUCTION SEQUENCE



8 PERFORATED PIPE TRENCH DETAILS

EROSION CONTROL NOTES AND MAINTENANCE PLAN:

- ALL EROSION AND SEDIMENT CONTROL MEASURES WILL BE CHECKED FOR STABILITY AND OPERATION FOLLOWING EVERY RUNOFF-PRODUCING RAINFALL, BUT IN NO CASE, LESS THAN ONCE EVERY WEEK AND WITHIN 24 HOURS OF EVERY HALF-INCH RAINFALL.
- ALL POINTS OF EGRESS WILL HAVE CONSTRUCTION ENTRANCES THAT WILL BE PERIODICALLY TOP-DRESSED WITH AN ADDITIONAL 2 INCHES OF #4 STONE TO MAINTAIN PROPER DEPTH. THEY WILL BE MAINTAINED IN A CONDITION TO PREVENT MUD OR SEDIMENT FROM LEAVING THE SITE. IMMEDIATELY REMOVE OBJECTIONABLE MATERIAL SPILLED WASHED OR TRACKED ONTO THE CONSTRUCTION ENTRANCE OR ROADWAYS.
- SEDIMENT WILL BE REMOVED FROM HARDWARE CLOTH AND GRAVEL INLET PROTECTION, BLOCK AND GRAVEL INLET PROTECTION, ROCK DOUGHNUT INLET PROTECTION AND ROCK PIPE INLET PROTECTION WHEN THE DESIGNED STORAGE CAPACITY HAS BEEN HALF FILLED WITH SEDIMENT. ROCK WILL BE CLEANED OR REPLACED WHEN THE SEDIMENT POOL NO LONGER DRAINS AS DESIGNED. DEBRIS WILL BE REMOVED FROM THE ROCK AND HARDWARE CLOTH TO ALLOW PROPER DRAINAGE. SILT SACKS WILL BE EMPTIED ONCE A WEEK AND AFTER EVERY RAIN EVENT. SEDIMENT WILL BE REMOVED FROM AROUND WATLES, BEAVER DAMS, DANDY SACKS AND SOCKS ONCE A WEEK AND AFTER EVERY RAIN EVENT.
- SEDIMENT WILL BE REMOVED FROM BEHIND THE SEDIMENT FENCE WHEN IT BECOMES HALF FILLED. THE SEDIMENT FENCE WILL BE REPAIRED AS NECESSARY TO MAINTAIN A BARRIER. STAKES MUST BE STEEL. STAKE SPACING WILL BE 6 FEET MAX. WITH THE USE OF EXTRA STRENGTH FABRIC, WITHOUT WIRE BACKING. STAKE SPACING WILL BE 8 FEET MAX. WHEN STANDARD STRENGTH FABRIC AND WIRE BACKING ARE USED. IF ROCK FILTERS ARE DESIGNED AT LOW POINTS IN THE SEDIMENT FENCE, THE ROCK WILL BE REPAIRED OR REPLACED IF IT BECOMES HALF-FULL OF SEDIMENT, NO LONGER DRAINS AS DESIGNED OR IS DAMAGED.
- LAND QUALITY REQUIREMENTS: ALL SEEDED AREAS WILL BE FERTILIZED, RESEED AS NECESSARY, AND MULCHED, ACCORDING TO SPECIFICATIONS IN THE VEGETATIVE PLAN, TO MAINTAIN A VIGOROUS, DENSE VEGETATIVE COVER. ALL SLOPES WILL BE STABILIZED WITHIN 21 CALENDAR DAYS. ALL OTHER AREAS WILL BE STABILIZED WITHIN 15 WORKING DAYS. WATER QUALITY REQUIREMENTS: ALL SEEDED AREAS WILL BE FERTILIZED, RESEED AS NECESSARY AND MULCHED ACCORDING TO SPECIFICATIONS. TREE PROTECTION: TREE PROTECTION SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION. TREE PROTECTION SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION. TREE PROTECTION SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION.

TEMPORARY/PERMANENT GRASS SPECIFICATION:

- CHISEL COMPACTED AREAS AND SPREAD TOPSOIL 3 INCHES DEEP OVER ADVERSE SOIL CONDITIONS.
- RIP THE ENTIRE AREA TO A 6 INCH DEPTH.
- REMOVE ALL ROCKS, ROOTS AND OTHER OBSTRUCTIONS LEAVING SURFACES SMOOTH AND UNIFORM.
- APPLY AGRICULTURAL LIME AND FERTILIZER UNIFORMLY AND MIX WITH SOIL. LIME: 45 LBS. PER 1000 S.F. PHOSPHOROUS: 20 LBS. PER 1000 S.F. FERTILIZER: 17 LBS. PER 1000 S.F.
- CONTINUE TILLAGE UNTIL A WELL PULVERIZED, FIRM, UNIFORM SEED BED IS PREPARED 4-6 INCHES DEEP.
- SEED ON A FRESHLY PREPARED SEED BED AND COVER SEED LIGHTLY. 2 3 LBS PER 1000 S.F. (SEE MIXTURE BELOW)
- MULCH IMMEDIATELY AFTER SEEDING AND ANCHOR MULCH. GRAIN STRAW & HAY AT 75 TO 100 LBS PER 1000 S.F. WOOD CHIPS AT 500 LBS. PER 1000 S.F. JUTE & MESH AS PER MANUFACTURER.
- ASPHALT FOR ANCHORING MULCH SHALL BE TYPE SS-1 EMULSION AND APPLIED AT A RATE OF 1000 GAL. PER ACRE FOR SLOPE STABILIZATION, AND 150 GAL. PER TON OF STRAW FOR ANCHORING STRAW.
- INSPECT ALL SEEDED AREAS AND MAKE NECESSARY REPAIRS OR RESEED WITHIN THE PLANTING SEASON, IF POSSIBLE. IF GRASS STAND SHOULD BE OVER 60% DAMAGED, REESTABLISH FOLLOWING ORIGINAL LIME, FERTILIZER AND SEEDING RATES.
- CONSULT CONSERVATION INSPECTOR ON MAINTENANCE, TREATMENT, AND FERTILIZATION AFTER PERMANENT COVER IS ESTABLISHED.
- SEED FOR TEMPORARY AND PERMANENT APPLICATIONS SHALL BE:
 - 20% CARPET GRASS
 - 20% BERMUDA GRASS
 - 20% TURF FESCUE
 - 10% CREEPING RED FESCUE
 - 20% ANNUAL RYE GRASS
 *BERMUDA SEED SHALL BE HULLED FOR WARM WEATHER PLANTING. PURITY OF SEED SHALL BE A MIN. OF 98% AND GERMINATION SHALL BE A MIN. OF 85%.
- ALL DISTURBED AREA SHALL BE SEEDED WITHIN 7-14 DAYS OF THE COMPLETION OF GRADING. SEE EROSION CONTROL AND MAINTENANCE NOTES. CONSULT CONSERVATION ENGINEER OR SOIL CONSERVATION SERVICE FOR ADDITIONAL INFORMATION CONCERNING OTHER ALTERNATIVES FOR VEGETATION OF DENUDEED AREAS. THE ABOVE VEGETATION RATES ARE THOSE WHICH DO WELL UNDER LOCAL CONDITIONS, OTHER SEEDING SCHEDULES MAY BE POSSIBLE.

SITE WORK NOTES:

- THE CONTRACTOR SHALL VISIT THE SITE TO BECOME FAMILIAR WITH FIELD CONSTRUCTION CONDITIONS.
- CONTRACTOR SHALL COORDINATE WORK WITH NCDOT AND LOCAL RIGHT OF WAYS WITH PROPER AUTHORITIES AND SHALL MEET ANY REQUIREMENTS AS TO TRAFFIC CONTROL AND CONNECTION TO EXISTING STREETS.
- CLEARING AND GRUBBING: REMOVE ALL TREES AS REQUIRED UNLESS OTHERWISE NOTED TO REMAIN. STUMPS, ROOTS, SHRUBBERY, ASPHALT, CONCRETE, STRUCTURES, BURIED UTILITIES, STORAGE TANKS, ETC. WITHIN LIMITS OF CONSTRUCTION.
- STRIPPING: BEFORE EXCAVATING OR FILLING, REMOVE ALL TOPSOIL, WOOD, LEAVES, AND ANY OTHER UNSUITABLE MATERIAL.
- MUCKING: REMOVE ANY SOFT, ORGANIC SILT MATERIALS AND EXISTING BURIED CONSTRUCTION DEBRIS AS REQUIRED AND FILL TO SUBGRADE ELEVATIONS WITH A CLEAN SELECT-FILL COMPACTED AS SPECIFIED.
- DISPOSAL: CLEARED, GRUBBED, STRIPPED OR EXCAVATED SPOIL SHALL BE REMOVED FROM SITE AND DISPOSED OF IN ACCORDANCE WITH ALL APPLICABLE LOCAL AND STATE CODES.
- BORROW MATERIAL: THE CONTRACTOR SHALL FURNISH BORROW MATERIAL REQUIRED FROM OFF SITE AND OBTAIN ALL REQUIRED PERMITS ASSOCIATED WITH BORROW OPERATIONS.
- FILL AND COMPACTION: AFTER STRIPPING THOSE AREAS DESIGNATED TO RECEIVE FILL SHOULD BE PROFFERED. THE TOP 8" OF SUBGRADE SHALL BE COMPACTED TO AT LEAST 98% OF MAXIMUM DENSITY AT OPTIMUM MOISTURE CONTENT. ANY AREA WHICH PUMPS OR RUTS EXCESSIVELY SHOULD BE UNDERCUT AND REPLACED WITH A CLEAN, SILTY OR CLAYEY SAND HAVING A UNIFIED SOIL CLASSIFICATION OF SP, SM, OR SC. FILL MATERIAL 5" OUTSIDE OF BUILDING AREAS SHALL THEN BE PLACED IN LAYERS NOT TO EXCEED 8" AND COMPACTED TO AT LEAST 98% OF THE STANDARD PROCTOR MAXIMUM DRY DENSITY (ASTM D-698) WITH THE UPPER 12 INCHES OF SUBGRADE BEING COMPACTED IN 6 INCH LAYERS TO 100% OF THE STANDARD PROCTOR MAXIMUM DRY DENSITY. IN AREAS WHERE NO STRUCTURAL FILL IS TO BE PLACED THE UPPER 12 INCHES OF IN-PLACE SUBGRADE SHOULD BE COMPACTED TO AT LEAST 98% OF THE STANDARD PROCTOR MAXIMUM DRY DENSITY. IF THE MATERIAL IS TOO DRY TO COMPACT TO THE REQUIRED DENSITY EACH LAYER SHALL BE WETTED IN ACCORDANCE WITH COMPACTION REQUIREMENTS. IF THE MATERIAL IS TOO WET TO SECURE PROPER COMPACTION, IT SHALL BE HARROWED REPEATEDLY OR OTHERWISE AERATED WITH SUITABLE EQUIPMENT UNTIL OPTIMUM MOISTURE CONTENT IS OBTAINED. FILL SHALL BE PLACED IN SUCH A MANNER THAT THE SURFACE WILL DRAIN READILY AT ALL TIMES. SEE STRUCTURAL NOTES AND SOILS REPORT FOR ADDITIONAL REQUIREMENTS.
- LAYOUT: THE CONTRACTOR SHALL PROVIDE ALL LAYOUT REQUIRED TO CONSTRUCT HIS WORK.
- THE CONTRACTOR IS RESPONSIBLE FOR THE LOCATION AND PROTECTION OF EXISTING UTILITIES DURING CONSTRUCTION.
- EXISTING BOUNDARY AND TOPOGRAPHIC INFORMATION FROM SURVEY BY MICHAEL UNDERWOOD AND ASSOC. PA AND PROVIDED BY OWNER.
- THE CONTRACTOR SHALL VERIFY DIMENSIONS AT JOBSITE.
- THE CONTRACTOR IS RESPONSIBLE FOR THE COORDINATION OF RELOCATION OR DISCONNECTION OF ALL EXISTING UTILITIES WITH APPLICABLE AGENCIES AND AUTHORITIES.
- ALL PAVEMENT AND BASE MATERIALS AND WORKMANSHIP SHALL CONFORM TO NCDOT STANDARDS.
- WATER AND SEWER SERVICES SHALL BE INSTALLED TO MEET LOCAL AND STATE PERMITS CODES. METER AND TAPS SHALL MEET ALL LOCAL REQUIREMENTS.
- ALL AREAS SHALL BE GRADED FOR POSITIVE DRAINAGE.
- SEE SOILS REPORT FOR ADDITIONAL REQUIREMENTS.
- CONTRACTOR SHALL NOTE THAT EARTHWORK QUANTITIES ARE HIS RESPONSIBILITY. PLANS DO NOT REPRESENT A BALANCED EARTHWORK CONDITION.
- REINFC. CONC. PIPE SHALL BE CLASS III W/RUBBER GASKETED JOINT OR "RAM NECK". INSTALL PER MANUFACTURER'S REQUIREMENTS.

CALL 811 (3) WORKING DAYS BEFORE YOU DIG.

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

15005

DES. JST
CRO. JPN
DRWN. NKS

DATE 7/19/16

APPROVED STORMWATER MANAGEMENT PLAN

Date: _____ Permit # _____

Signed: _____

Approved Construction Plan

Name _____ Date _____

Planning _____

Traffic _____

Fire _____

SEAL 030689

JASON CLAY

NOTES AND DETAILS

WELLS INSURANCE OLEANDER DR. SITE

5712 OLEANDER DRIVE

WILMINGTON, N. C.

OWNER/DEVELOPER

HAROLD W. WELLS, IV, MANAGER

WELLS REAL ESTATE HOLDINGS, LLC

1 NORTH THIRD STREET

WILMINGTON, NC 28401

910 251-9402

NORRIS & TUNSTALL

CONSULTING ENGINEERS, P.C.

1429 ASH—LITTLE RIVER RD. NW

WILMINGTON, NC 28420

PHONE (910) 287-5800

902 MARKET STREET

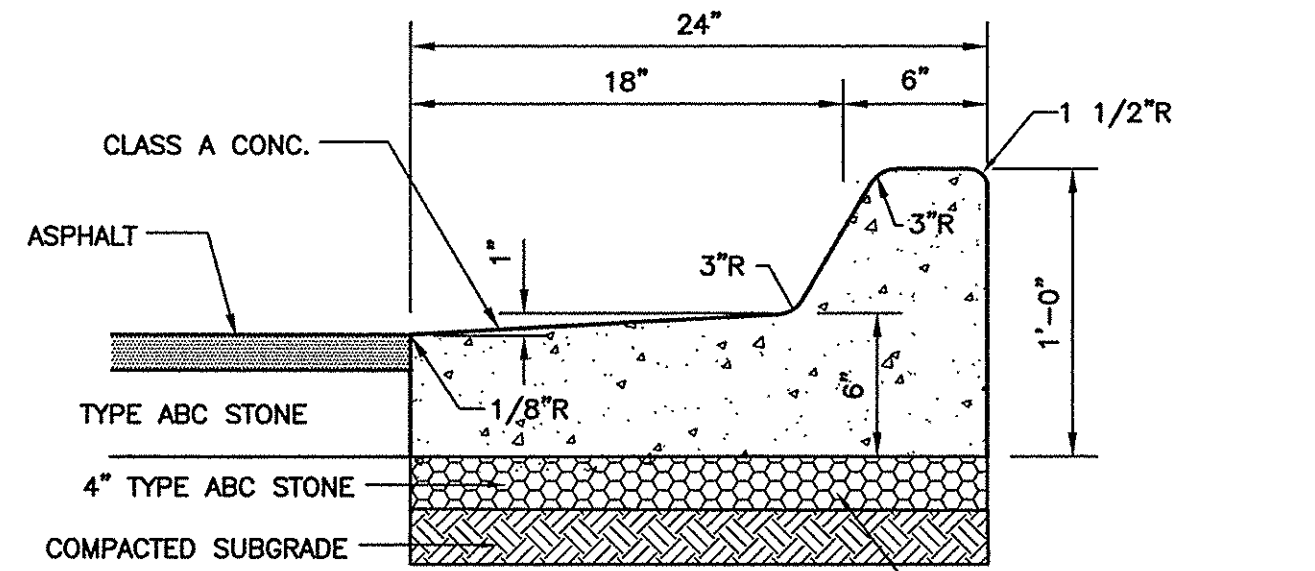
WILMINGTON, NC 28401

PHONE (910) 343-9653

license #C-3641

C2

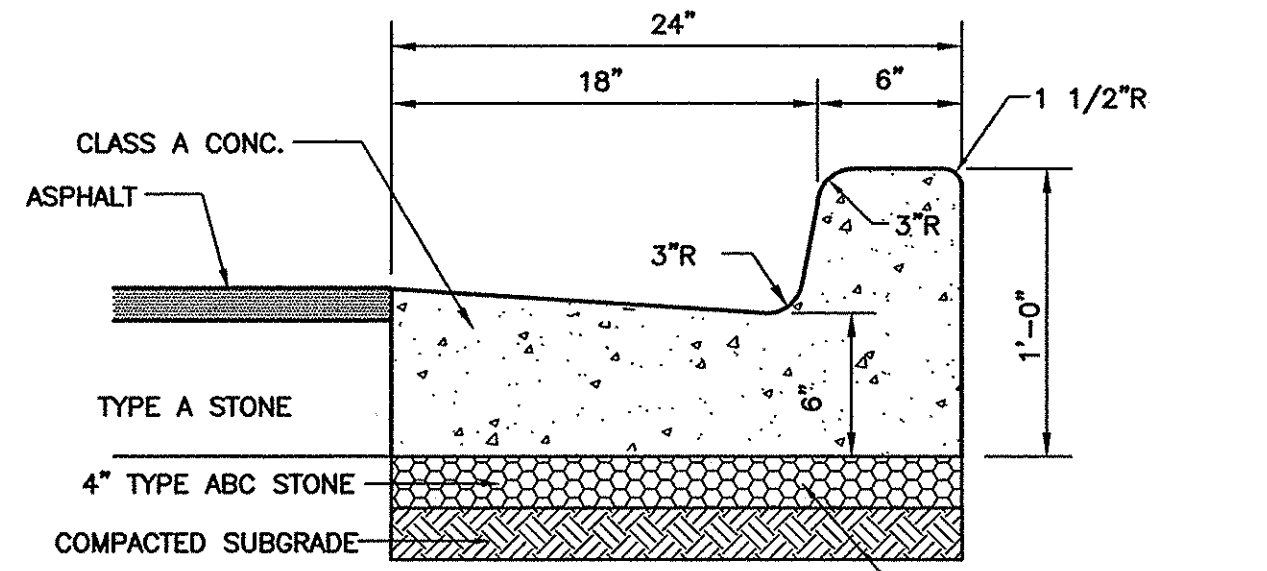
NOTE: INSTALLATION OF NEW 24" CURB AND GUTTER ANY COW OR NCDOT STREET SHALL REQUIRE A MINIMUM OF 6" ABC STONE BASE.



NOTE: CURB TYPE DEPENDS ON GRADES SHOWN ON GRADING PLAN. GRADES INDICATING FALL AWAY FROM CURB SHALL BE SPILL OFF TYPE CURB. GRADES INDICATING CURB ACCEPTING FLOW SHALL BE FLOW LINE TYPE.

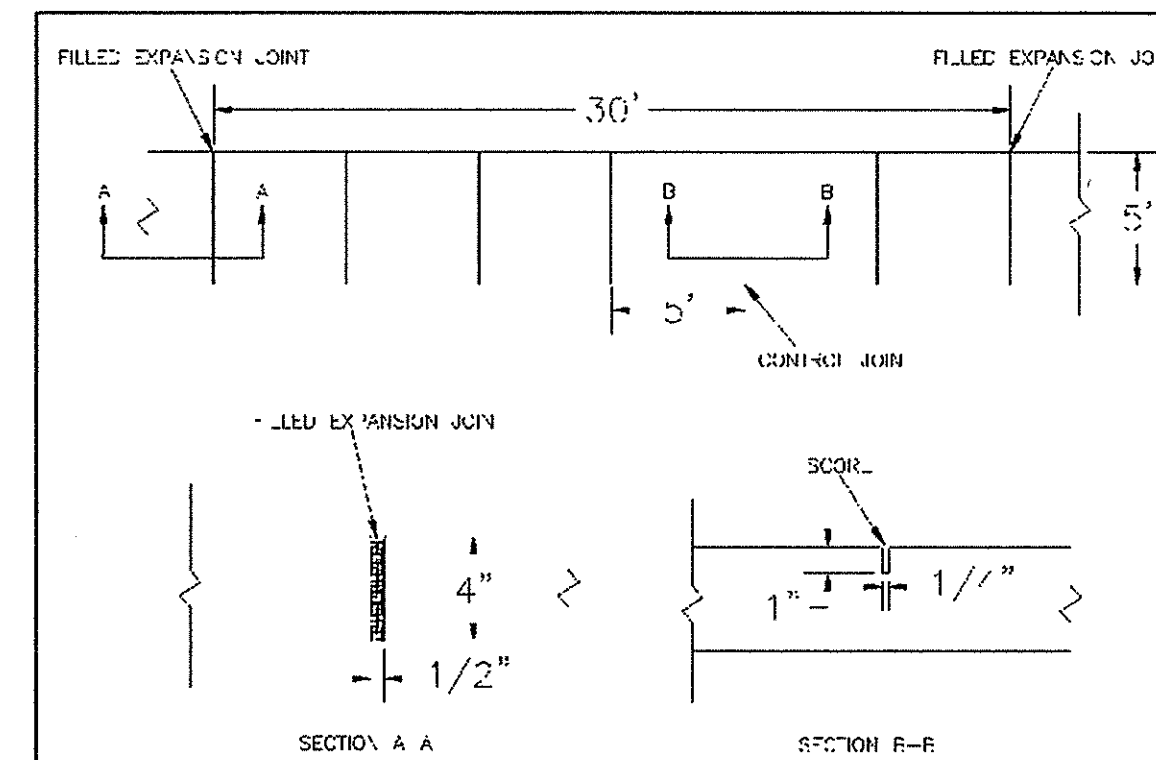
NOT TO SCALE

NOTE: INSTALLATION OF NEW 24" CURB AND GUTTER ANY COW OR NCDOT STREET SHALL REQUIRE A MINIMUM OF 6" ABC STONE BASE.



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NOT TO SCALE



- NOTES:
1. JOINT MATTER TO COMPLY WITH CURRENT NCDOT STANDARDS.
 2. SALVARY SPOUR C FALL-OFFS, WATER METERS, WASH-UPS, AND VALVES TO BE LOCATED OUTSIDE SIDEWALK WHERE PRACTICABLE.
 3. MINIMUM SIDEWALK WIDTH TO BE 6' MINIMUM IF PLACED AT BACK OF CURB.
 4. CURB TYPE SHALL BE CLASS "A" UNLESS OTHERWISE SPECIFIED IN A UTILITY APPROVAL SHALL BE CLASS "A" 3,000 PSI.
 5. MINIMUM REPLACEMENT OR REPAIRS IS A 5' X 5' PANEL.
 6. 4" STONE BASE MAY BE REQUIRED FOR POOR SOIL CONDITIONS.
 7. MINIMUM JUMP 1 OR 1 1/2" UNLESS OTHERWISE SPECIFIED.
 8. MAX ADAPTIVE GROUND SLOPE WITHOUT RAMPING IS 2:1.
 9. MIN GRADE FOR PROPER DRAINAGE IS 1/4" IN AT LEAST 1' IN ANY DIRECTION. MAX CROSS SLOPE IS 2% UNLESS OTHERWISE SPECIFIED. SLOPE IS 0.5% TO 1% UNLESS OTHERWISE SPECIFIED. THE SLOPE OF THE FIRST 10' ADJACENT TO CURB.

NOT TO SCALE

CITY OF WILMINGTON STANDARD NOTES:

1. CONTACT THE NORTH CAROLINA ONE CALL CENTER PRIOR TO DOING ANY DIGGING AT 1-800-632-4949.
2. 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.
3. ALL PAVEMENT MARKINGS IN PUBLIC RIGHTS-OF-WAY AND FOR DRIVEWAYS ARE TO BE THERMOPLASTIC AND MEET CITY AND/OR NCDOT STANDARDS.
4. ALL PARKING STALL MARKINGS AND LANE ARROWS WITHIN THE PARKING AREAS SHALL BE WHITE.
5. INSTALL REFLECTORS PER CITY AND NCDOT STANDARDS. TRAFFIC ENGINEERING MUST APPROVE OF PAVEMENT MARKING LAYOUT PRIOR TO ACTUAL STRIPING.
6. ALL TRAFFIC CONTROL SIGNS AND MARKINGS OFF THE RIGHT-OF-WAY ARE TO BE MAINTAINED BY THE PROPERTY OWNER IN ACCORDANCE WITH MUTCD STANDARDS.
7. 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.
8. 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. POSTED STREET NAMES MUST BE APPROVED PRIOR TO INSTALLATION OF STREET NAME SIGNS.
9. CONTACT TRAFFIC ENGINEERING AT 341-7888 FORTY-EIGHT HOURS PRIOR TO ANY EXCAVATION IN THE RIGHT-OF-WAY.
10. 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.
11. ANY BROKEN OR MISSING SIDEWALK PANELS, DRIVEWAY PANELS, AND CURBING WILL BE REPLACED.
12. CONTACT TRAFFIC ENGINEERING AT 341-7888 TO DISCUSS STREET LIGHTING OPTIONS.
13. PROJECT SHALL COMPLY WITH CFPWA CROSS CONNECTION CONTROL REQUIREMENTS. WATER METER(S) CANNOT BE RELEASED UNTIL ALL REQUIREMENTS ARE MET AND THE STATE HAS GIVEN THEIR FINAL APPROVAL. CALL 343-3910 FOR INFORMATION.
14. IF THE CONTRACTOR DESIRES CFPWA WATER FOR CONSTRUCTION HE SHALL APPLY IN ADVANCE FOR THIS SERVICE AND MUST PROVIDE A REDUCED PRESSURE ZONE (RPZ) BACKFLOW PREVENTION DEVICE ON THE DEVELOPER'S SIDE OF THE WATER METER BOX.
15. ANY IRRIGATION SYSTEM SUPPLIED BY CFPWA WATER SHALL COMPLY WITH CFPWA CROSS CONNECTION CONTROL REGULATIONS. CALL 332-6558 FOR INFORMATION.
16. ANY BACKFLOW PREVENTION DEVICES REQUIRED BY CFPWA WILL NEED TO BE ON THE LIST OF APPROVED DEVICES BY USCFCOCHR OR ASSE.
17. WHEN PVC WATER MAINS AND/OR POLYETHYLENE SERVICES ARE PROPOSED, THE PIPES ARE TO BE MARKED WITH NO. 10 INSULATED SINGLE STRAND COPPER WIRE INSTALLED THE ENTIRE LENGTH AND SECURED TO ALL VALVES. THIS WIRE IS TO BE ACCESSIBLE AT ALL FIRE HYDRANTS AND WATER METER BOXES TO AID IN FUTURE LOCATION OF FACILITIES.
18. THE NUMBER AND SPACING OF DRIVEWAYS FOR ALL INTERCONNECTED SITES WILL BE DETERMINED BY THE COMBINED FRONTAGE OF THE INTERCONNECTED PROPERTIES.
19. UNDERGROUND FIRE LINE MUST BE PERMITTED AND INSPECTED BY THE WILMINGTON FIRE DEPARTMENT FROM THE PUBLIC ROW TO THE BUILDING. CONTACT THE WILMINGTON FIRE DEPARTMENT DIVISION OF FIRE AND LIFE SAFETY AT 910-343-0696 FOR ADDITIONAL INFORMATION.
20. A LANDSCAPE 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.
21. IF AND IRRIGATION SYSTEM IS PLANNED FOR THE SITE, UTILIZE MOISTURE SENSORS.
22. ALL PROPOSED VEGETATION WITHIN THE SIGHT TRIANGLES SHALL NOT INTERFERE WITH CLEAR VISUAL SIGHT LINES FROM 30'-10'.
23. PLEASE CONSIDER INCORPORATING XERIC LANDSCAPING FOR ALL NEW LANDSCAPING.

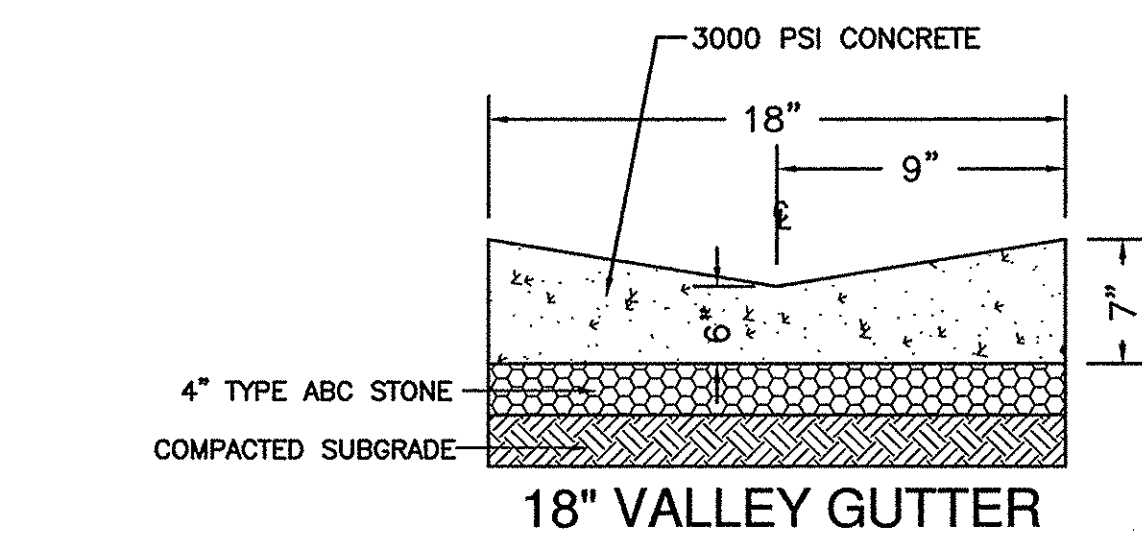
UTILITY NOTES FOR FIRE HYDRANTS:

1. FIRE HYDRANTS MUST BE WITHIN 150' OF THE FIRE DEPARTMENT CONNECTION.
2. THE FIRE DEPARTMENT CONNECTION MUST BE WITHIN 40' OF FIRE APPARATUS PLACEMENT.
3. LANDSCAPING AND PARKING CANNOT BLOCK OR IMPEDE THE FIRE DEPARTMENT CONNECTIONS OR FIRE HYDRANTS. A 3' CLEAR SPACE SHALL BE MAINTAINED AROUND THE CIRCUMFERENCE OF THE FIRE HYDRANT CONNECTION AND THE FIRE HYDRANT.
4. FIRE HYDRANTS MUST BE LOCATED WITHIN 8' OF THE CURB.
5. NEW HYDRANTS MUST BE AVAILABLE FOR USE PRIOR TO CONSTRUCTION OF THE BUILDINGS.
6. NEW HYDRANTS MUST BE BROUGHT INTO SERVICE PRIOR TO COMBUSTIBLE MATERIALS BEING DELIVERED TO THE JOB SITE.
7. THE CONTRACTOR SHALL MAINTAIN AN ALL WEATHER ACCESS FOR EMERGENCY VEHICLES AT ALL TIMES DURING CONSTRUCTION.
8. TEMPORARY STREET SIGNS SHALL BE INSTALLED AT EACH STREET INTERSECTION WHEN CONSTRUCTION OF NEW ROADWAYS ALLOWS PASSAGE BY VEHICLES.
9. UNDERGROUND FIRE LINE AND PRIVATE WATER MAINS 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 910-343-0696 FOR ADDITIONAL INFORMATION.
10. A MINIMUM OF 5' SHALL SEPARATE UNDERGROUND FIRE LINES OR PRIVATE WATER MAINS FROM OTHER UNDERGROUND UTILITIES.
11. HYDRANTS SHALL BE OF SUFFICIENT NUMBERS TO ACCOMMODATE BASE FIRE FLOW REQUIREMENTS OF THE STRUCTURE.
12. BUILDING CONSTRUCTION TYPE: VB

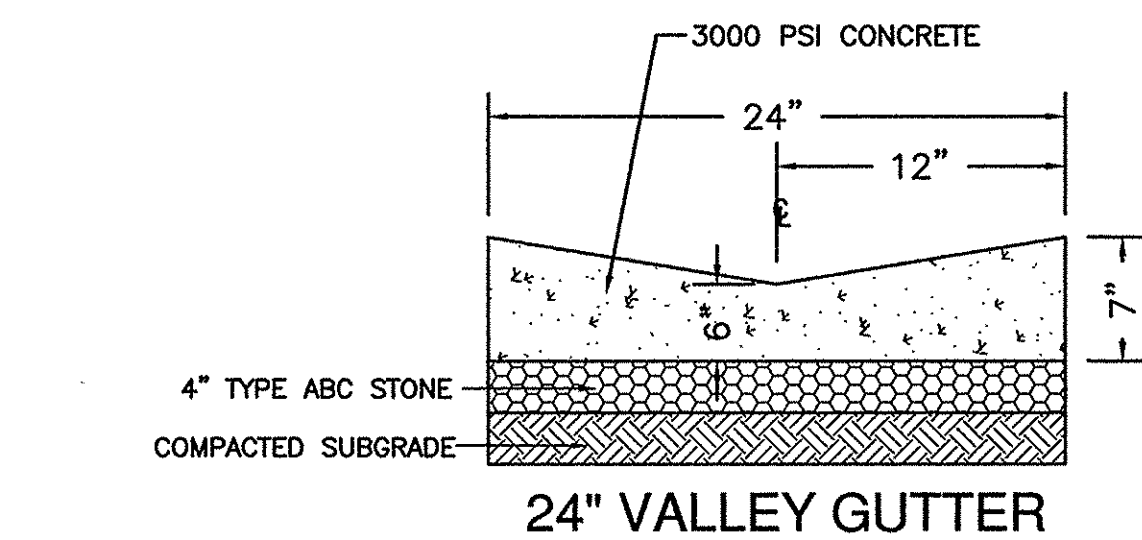
1 24" CURB AND GUTTER SECTION (SPILL-OFF)

2 24" CURB AND GUTTER SECTION (FLOW-LINE)

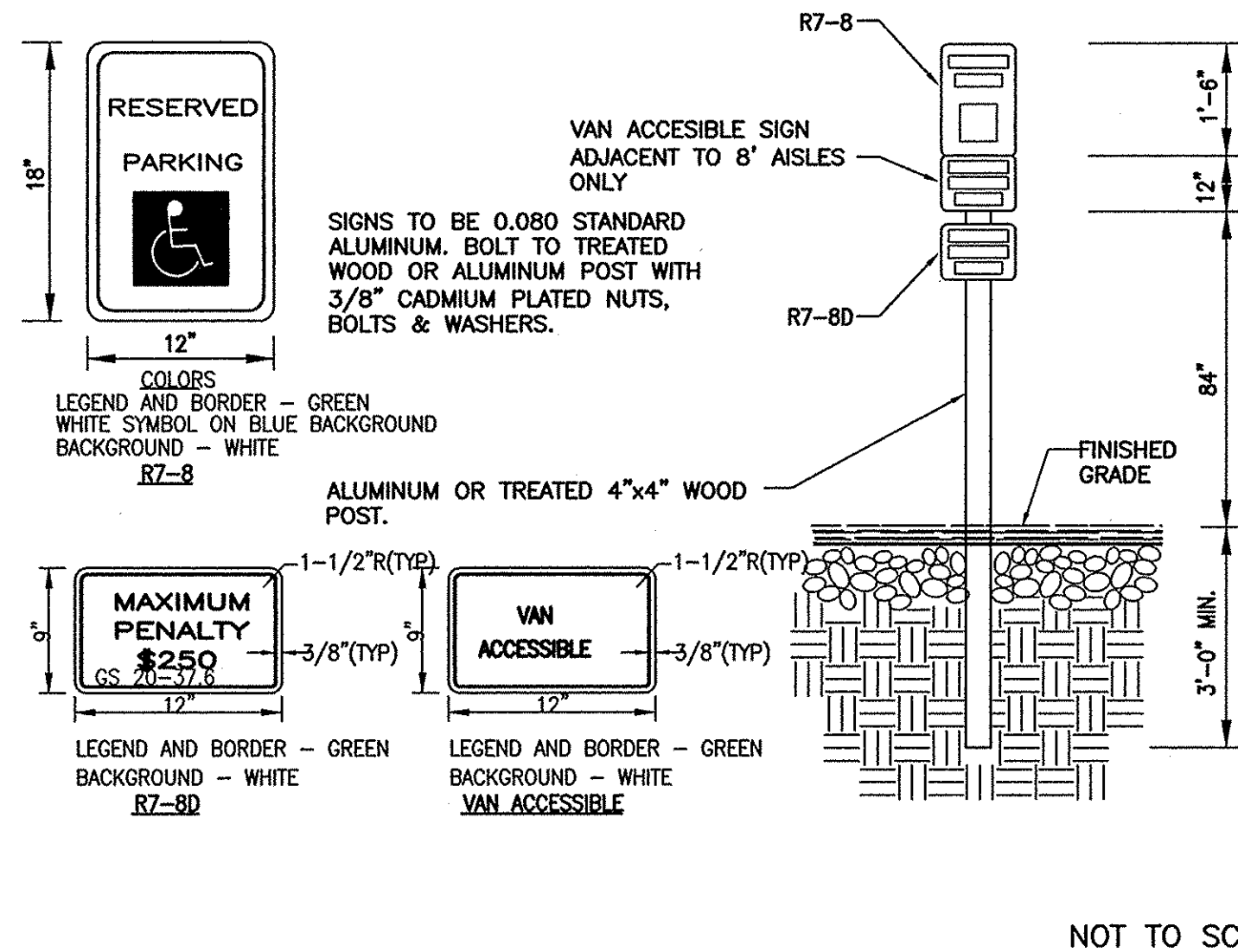
3 STANDARD SIDEWALK DETAIL



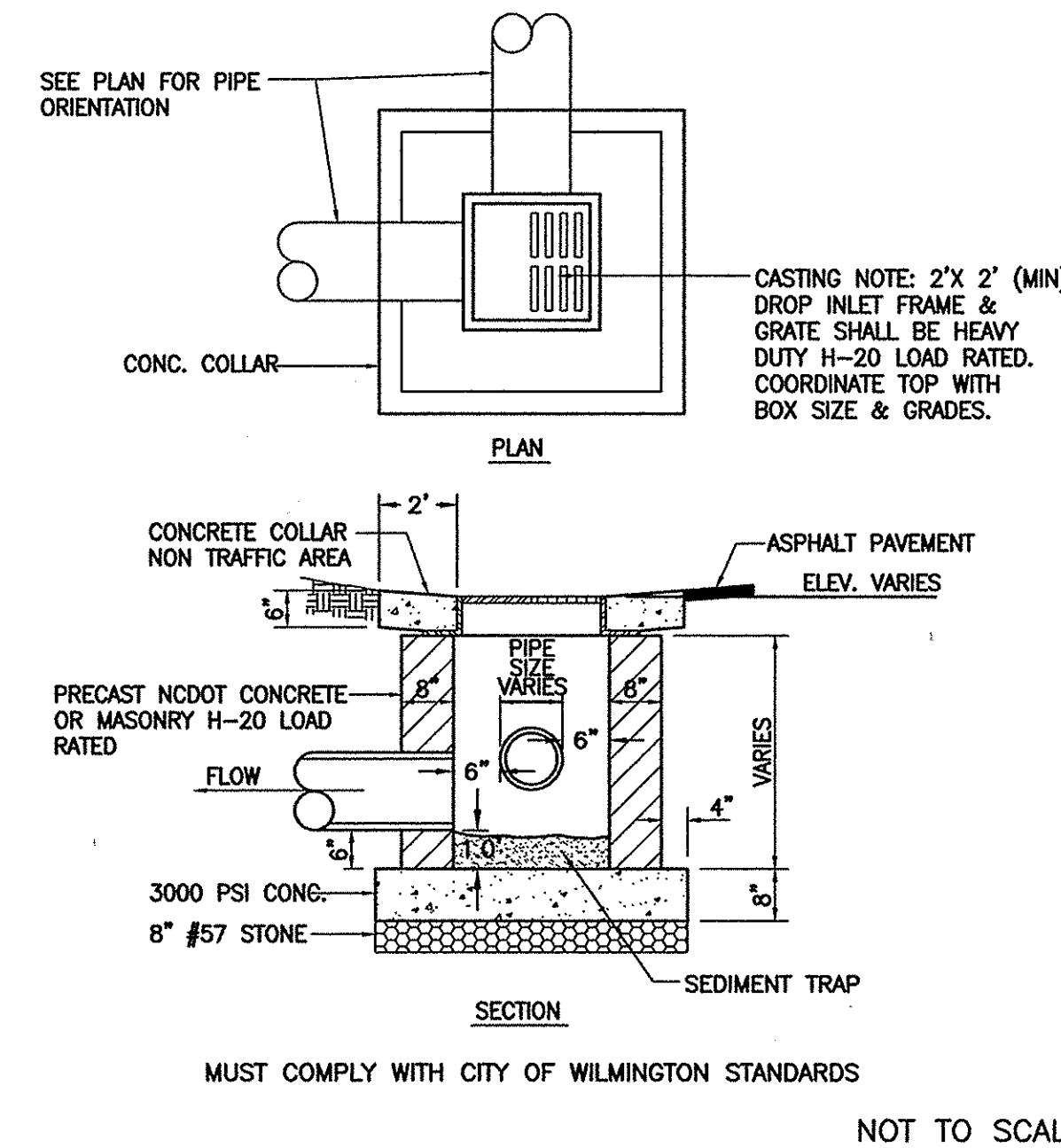
18" VALLEY GUTTER



24" VALLEY GUTTER



NOT TO SCALE

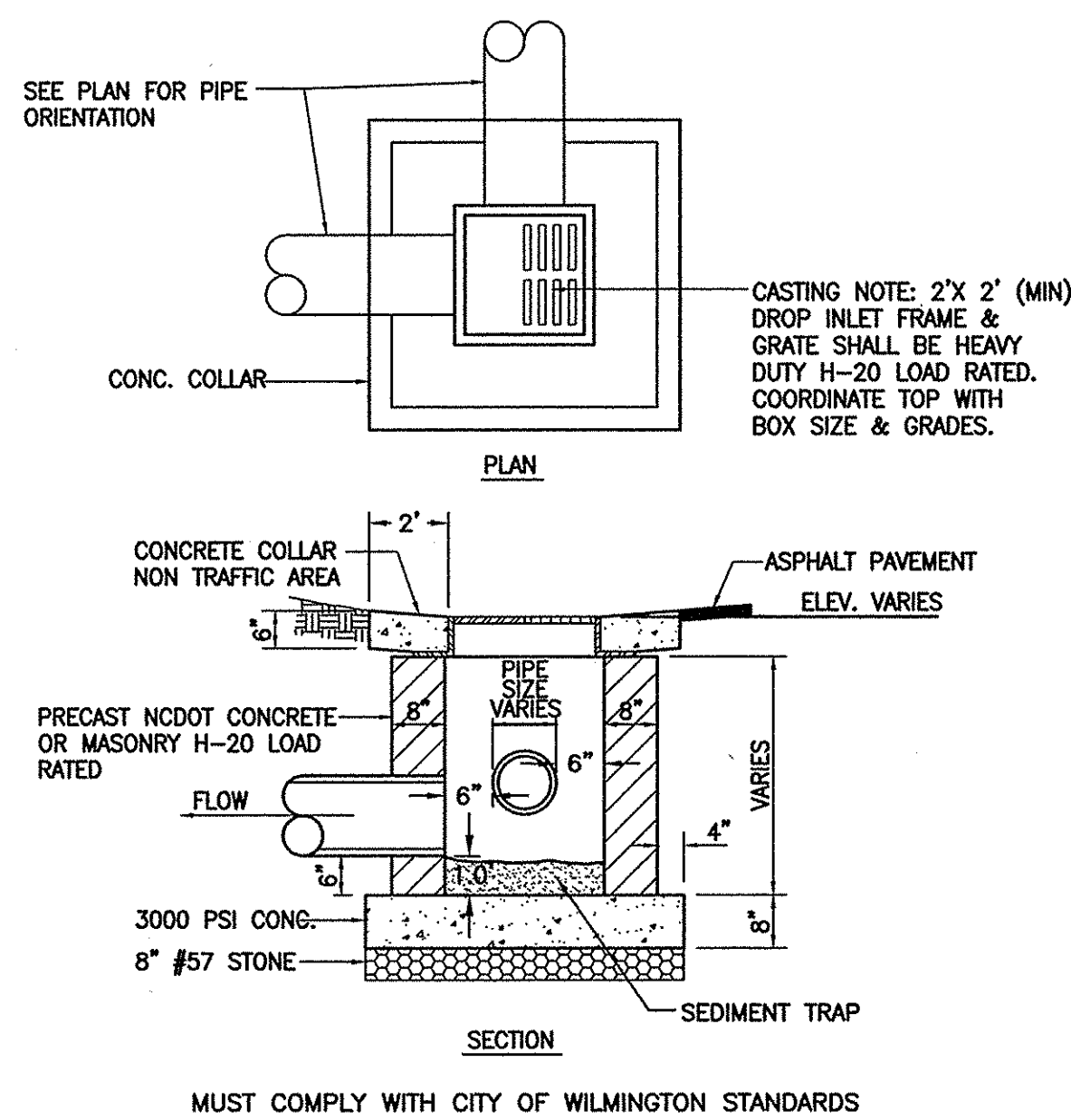


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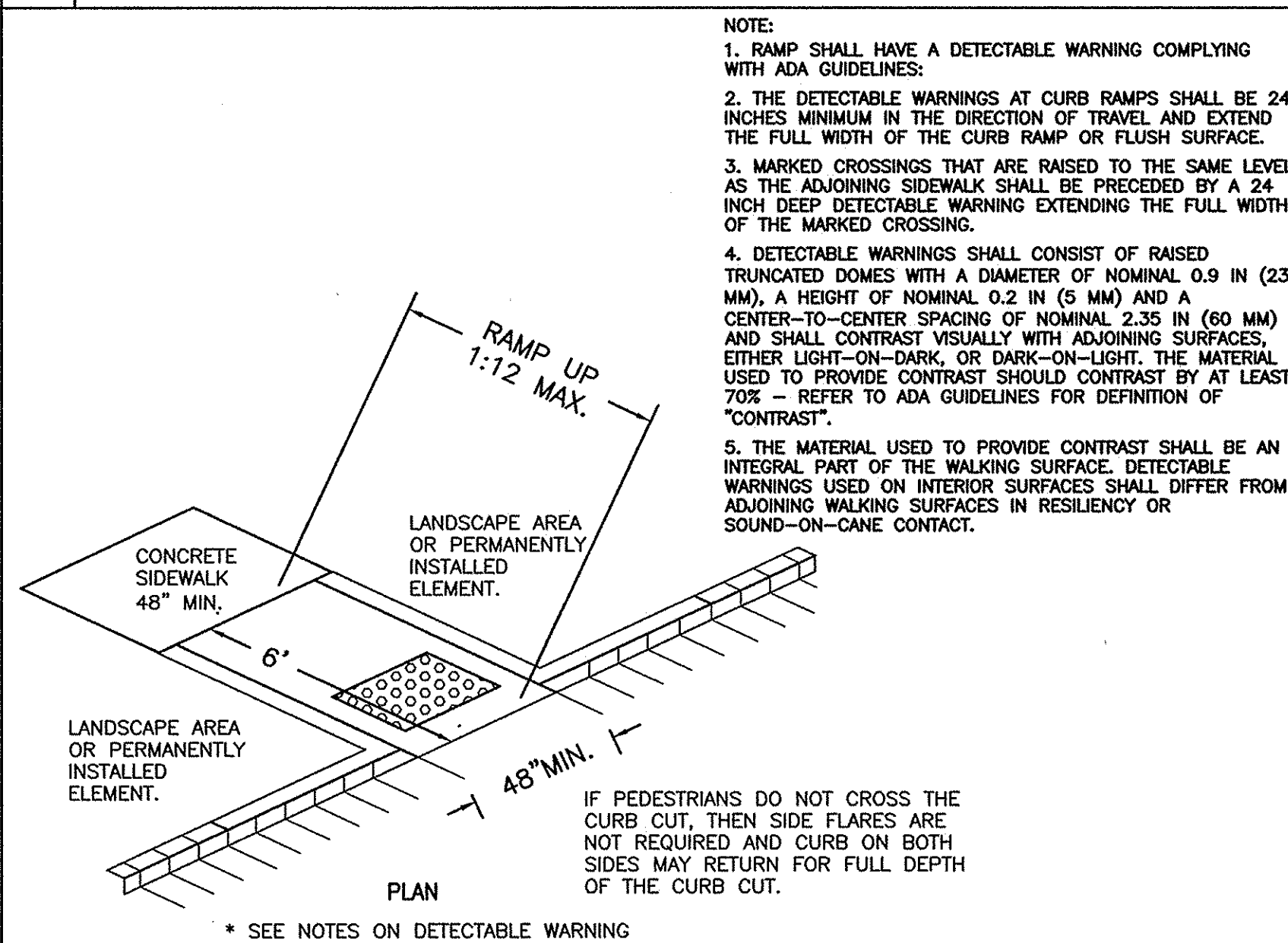
4 VALLEY GUTTER DETAILS

5 TYPICAL HANDICAPPED SIGN DETAIL

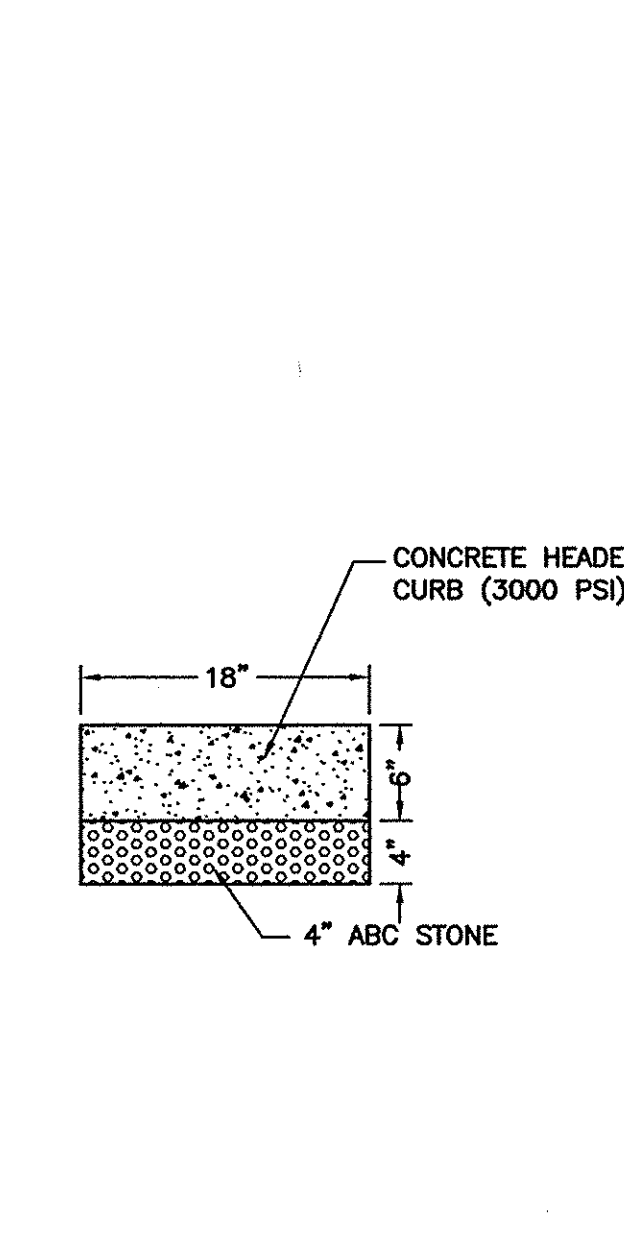
6 DROP INLET DETAIL



NOT TO SCALE



NOT TO SCALE



NOT TO SCALE

7 DROP INLET DETAIL

8 SIDEWALK, CURB CUT AND WHEEL CHAIR RAMP DETAIL

9 18" CONCRETE HEADER DETAIL

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: _____

Approved Construction Plan

Name: _____ Date: _____

Planning: _____

Traffic: _____

Fire: _____

NCDENR PWSS WATER PERMIT #: _____

WATER CAPACITY: _____ GPD

DWQ SEWER PERMIT #: _____

SEWER CAPACITY: _____ GPD

SEWER SHED # AND PLANT: _____

SEWER TO FLOW THROUGH NEI: YES OR NO (CIRCLE ONE)

SYMBOL	DATE	DESCRIPTION	BY
REVISIONS			
© 2015 NORRIS & TUNSTALL			

NOTES AND DETAILS
WELLS INSURANCE OLEANDER DR. SITE
5712 OLEANDER DRIVE
WILMINGTON, N.C.

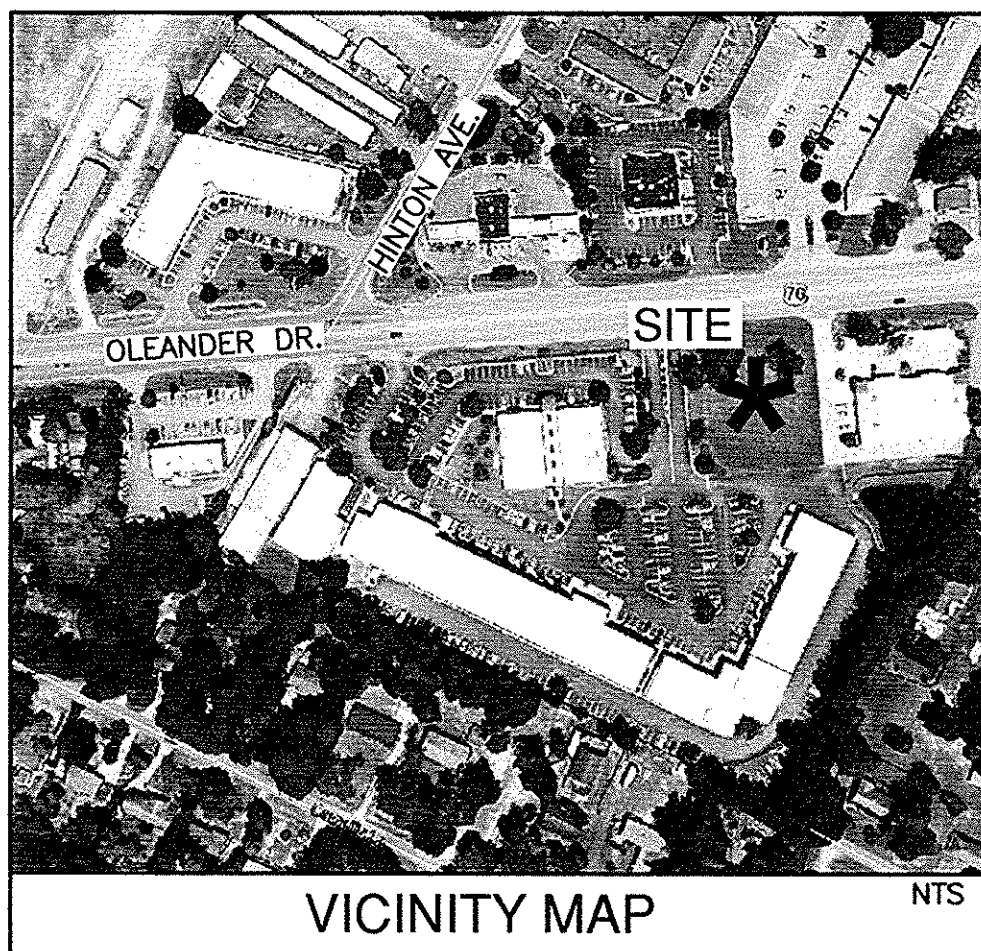
OWNER/DEVELOPER
HAROLD W. WELLS, IV, MANAGER
WELLS REAL ESTATE HOLDINGS, LLC
1 NORTH THIRD STREET
WILMINGTON, NC 28401
910 251-5402

NORRIS & TUNSTALL
CONSULTING ENGINEERS, P.C.
1429 ASH-LITTLE RIVER RD. NW
WILMINGTON, NC 28403
PHONE (910) 287-5900
FACSIMILE (910) 287-5402
LICENSE #C-3641

15005
DES. JST
CHK. JPN
DRWN. NKS
DATE 7/19/16



C3



VICINITY MAP

R06206-007-004-000
5709 OLEANDER DR.
ZONED O&I-1
RESTAURANT
MARO ENTERPRISES LLC

R06207-003-018-000
5725 OLEANDER DR.
ZONED CB
CONDOMINIUM COMMON AREA
OLEANDER OAKS CONDOMINIUM

TRACT A
(REVISION)
MAP BOOK 32 PAGE 238
R06206-012-002-000
5704 OLEANDER DR.
ZONED CB
COMMERCIAL
OLEANDER COURTYARD CONDO ASSN.

PROPOSED BUILDING
4,455 SF
FFE=21.0

FUTURE ADDITION
2,054 SF

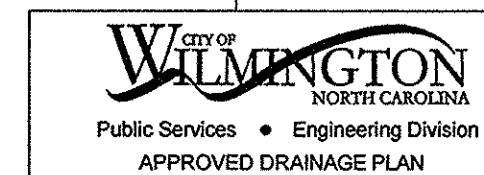
TRACT C
MAP BOOK 32 PAGE 238
R06207-020-006-000
5732 OLEANDER DR.
ZONED CB
COMMERCIAL
R FUTURE LLC

TRACT "B" - (REVISION)
0.75 ACRES +/-
NAP BOOK 32 PAGE 238

TRACT D
(REVISION)
MAP BOOK 32 PAGE 238
R06206-012-013-000
5710 OLEANDER DR.
ZONED CB
OLEANDER BUSINESS COMMON AREA
OBC COA INC

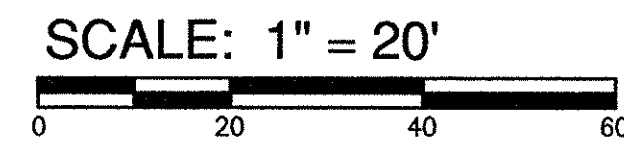
INVENTORY SITE DATA	
EXISTING PARCEL ID#:	R06206-012-011-000
EXISTING PARCEL PIN#:	314608.78.9926.000
PARCEL ADDRESS:	5712 OLEANDER DRIVE
PARCEL OWNER:	WELLS REAL ESTATE HOLDINGS LLC
EXISTING PARCEL AREA:	0.75 AC (32,625 SF)
PROPOSED PARCEL USE:	OFFICE
CURRENT ZONING:	CB-COMMUNITY BUSINESS
CAMA LAND CLASSIFICATION:	WATERSHED RESOURCE PROTECTION
SOIL TYPE:	Se (HYDROLOGIC SOIL GROUP "A")
SITE DOES NOT LIE WITHIN 100 YEAR FLOOD PLAIN	
NO CAMA AREAS OF CONCERN OR ASSOCIATED SETBACKS	
HISTORICAL/ARCHAEOLOGICAL SITE:	NONE
CEMETERY:	NONE
FORESTED AREA:	SEE PLAN FOR TREE SURVEY
WETLANDS:	NONE EXIST WITHIN SITE AREA
ENDANGERED SPECIES/HABITAT:	NONE REPORTED

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: _____ Permit # _____
Signed: _____
Approved Construction Plan
Name _____ Date _____
Planning _____
Traffic _____
File _____

NC DENR PWSS WATER PERMIT # _____
WATER CAPACITY: _____ GPD
DWO SEWER PERMIT # _____
SEWER CAPACITY: _____ GPD
SEWER SHED # AND PLANT: _____
SEWER TO FLOW THROUGH NEI: YES OR NO (CIRCLE ONE)



SYMBOL	DATE	DESCRIPTION	BY
		REVISIONS	

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SITE INVENTORY PLAN
WELLS INSURANCE OLEANDER DR. SITE
5712 OLEANDER DRIVE
WILMINGTON, N. C.

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15005
DES. JST
C.D. JPN
DRWL. NKS
DATE 7/19/16

11