

TREE TYPE	SAVE/REMOVE
5" MAGNOLIA	SAVE
5" MAGNOLIA	SAVE
5" MAGNOLIA	SAVE
5" DOGWOOD	REMOVE
7" MAGNOLIA	SAVE
8" MAGNOLIA	SAVE
8" WATER OAK	REMOVE
9" LIVE OAK	REMOVE
8" & 9" DOUBLE OAK	SAVE
10" WATER OAK	SAVE
10" WATER OAK	REMOVE
11" BAY	SAVE
11" HICKORY	SAVE
12" HICKORY	SAVE
12" WATER OAK	SAVE
12" WATER OAK	SAVE
15" PINE	REMOVE
16" LIVE OAK	REMOVE
16" WATER OAK	REMOVE
17" SWEET GUM	REMOVE
18" MAPLE	SAVE
21" HICKORY	REMOVE
22" PINE	REMOVE
24" LIVE OAK	REMOVE
26" HEMLOCK	REMOVE
26" PINE	REMOVE
26" PINE	SAVE
26" PINE	SAVE
30" PINE	SAVE
30" PINE	SAVE
32" PINE	REMOVE

Jeanine S. Chase
Lot 27 Wood Acres
Deed Book 9801, Page 2413
Map Book 5, Page 123
Zoning R-15
Residential

Arthur Ard
Lot 26 Wood Acres
Deed Book 5838, Page 72
Map Book 5, Page 123
Zoning R-15
Residential

Jennifer L. & Michael J. Connolly
Lot 25 Wood Acres
Deed Book 5619, Page 1968
Map Book 5, Page 123
Zoning R-15
Residential

C. & Donna C. Johnson
Wood Acres
Deed Book 893, Page 23

Hewletts Run Homeowners Association
Deed Book 2251, Page 928
Map Book 37, Page 183
Zoning R-15
Residential

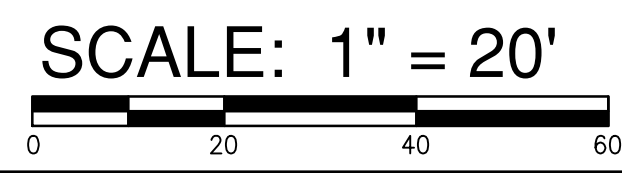
Lacroix Center COA Inc.
Zoning CB
Business

WILMINGTON
NORTH CAROLINA
Public Services • Engineering Division
APPROVED STORMWATER MANAGEMENT PLAN
Date: _____ Permit # _____
Signed: _____

Approved Construction Plan
Name _____ Date _____
Planning _____
Traffic _____
Fire _____

LEGEND

---	PROPERTY LINE
- - - -	RIGHT OF WAY
- - - -	EXISTING CONTOUR
x 51.7'	EXISTING SPOT ELEVATION
○	EXISTING TREE TO BE SAVE
✗	EXISTING TREE TO BE REMOVED



SYMBOL	DATE	DESCRIPTION	BY
		REVISIONS	

DEMOLITION PLAN
DOLLAR GENERAL - PINE GROVE
810 PINE GROVE DRIVE
NEW HANOVER COUNTY, NORTH CAROLINA

OWNER:
PAR 5 DEVELOPMENT, LLC
2860-B NC HWY 5
ABERDEEN, NC 28315
(P) 910-944-0881
lex@par5development.com

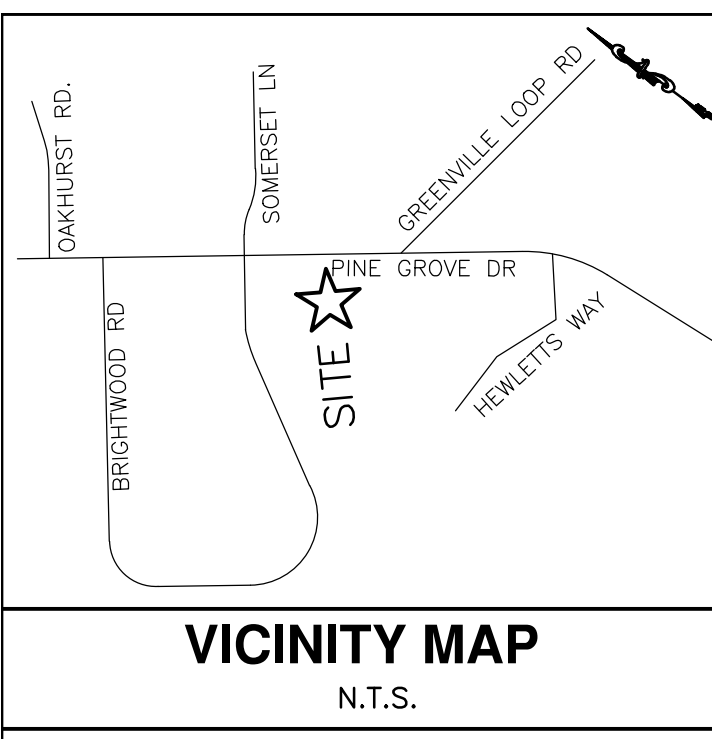
NORRIS & TUNSTALL
CONSULTING ENGINEERS P.C.
1429 ASH-LITTLE RIVER RD. NW
ASHI, NC 28420
PHONE (910) 297-5900

License #C-3641
17145
DES. JPN
C.B. JPN
DRWN. EDB

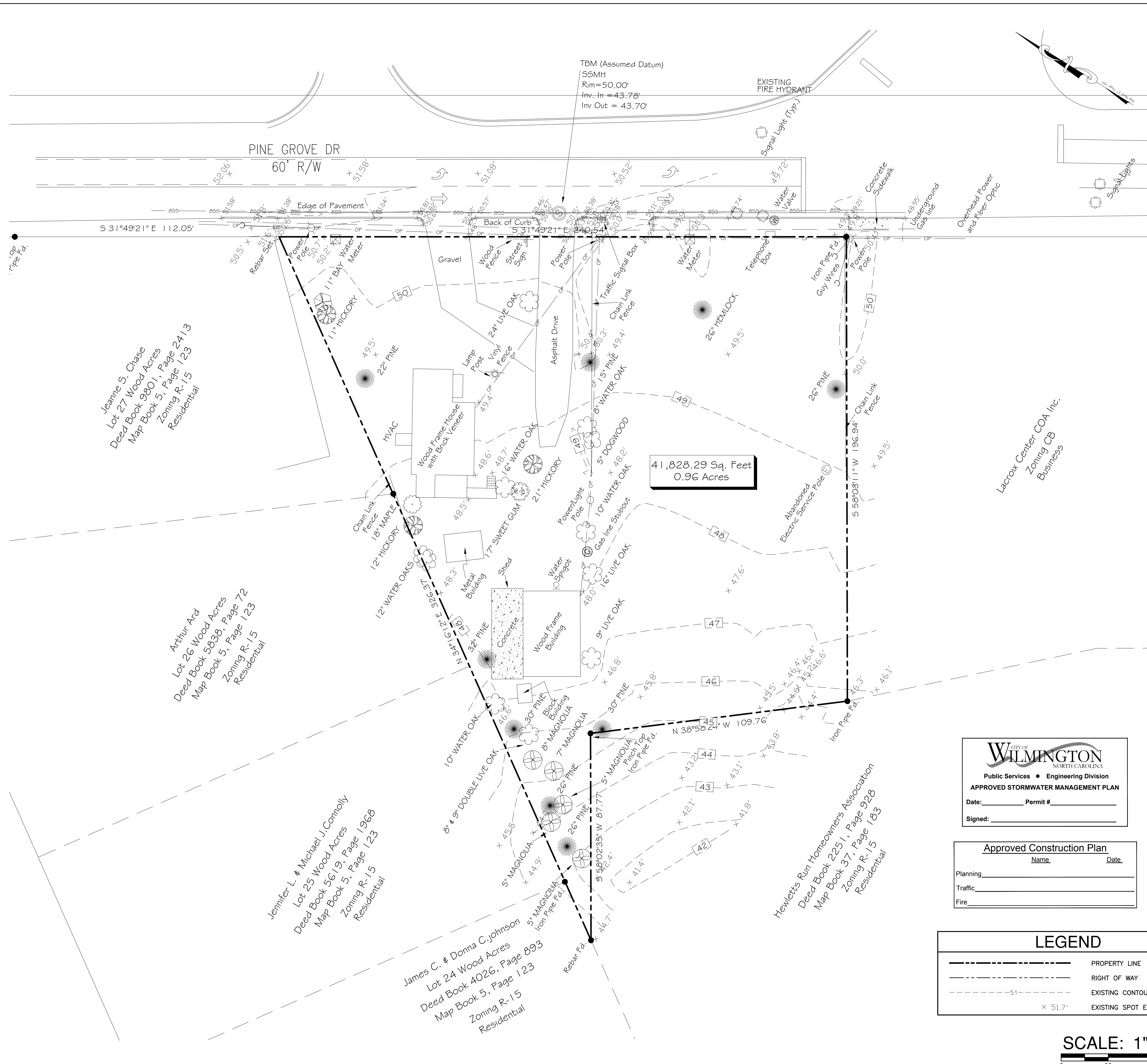
DATE 06/28/18
NOT A PERMIT TO CONSTRUCTION

C1.1

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VICINITY MAP
N.T.S.



Jeanne S. Chase
Lot 27 Wood Acres
Deed Book 9801, Page 2413
Map Book 5, Page 123
Zoning R-15
Residential

Arthur Ard
Lot 26 Wood Acres
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Deed Book 4026, Page 893
Map Book 5, Page 123
Zoning R-15
Residential

Hewletts Run Homeowners Association
Deed Book 2251, Page 928
Map Book 37, Page 183
Residential

41,828.29 Sq. Feet
0.96 Acres

CITY OF WILMINGTON
NORTH CAROLINA
Public Services • Engineering Division
APPROVED STORMWATER MANAGEMENT PLAN
Date: _____ Permit # _____
Signed: _____

Approved Construction Plan

Name	Date
Planning	
Traffic	
Fire	

LEGEND

---	PROPERTY LINE
----	RIGHT OF WAY
- - - -	EXISTING CONTOUR
x 51.7'	EXISTING SPOT ELEVATION

SCALE: 1" = 20'

SITE INVENTORY DATA

PLAN PREPARER:	NORRIS & TUNSTALL CONSULTING ENGINEERS.
APPLICANT NAME:	J. PHILLIP NORRIS, P.E.
SITE ADDRESS:	810 PINE GROVE DR.
PROPERTY OWNER:	FRANK McNEILL AND CARITA McNEILL
DEVELOPER:	PAR 5 DEVELOPMENT GROUP, LLC
PARCEL #:	R06116-001-004-000
ZONING:	CB
ADJACENT PROPERTY OWNER:	SEE SITE PLAN
VICINITY MAP:	SEE PLAN
TOPOGRAPHIC DATA:	SEE PLAN
100 YR FLOOD ELEVATION:	N/A
LOCATION OF WATER FEATURES:	N/A
SOILS TYPE:	Bh, J0
CAMA DATA:	N/A
CAMA CLASSIFICATION:	URBAN
CONSERVATION RESOURCES:	N/A
RECOGNIZED SITE:	N/A
CEMETERIES:	N/A
FORESTED AREAS:	N/A
WETLANDS:	N/A
PROTECTED SPECIES:	N/A
TRANSPORTATION DATA:	SEE PLAN

SYMBOL	DATE	DESCRIPTION	BY
		REVISIONS	

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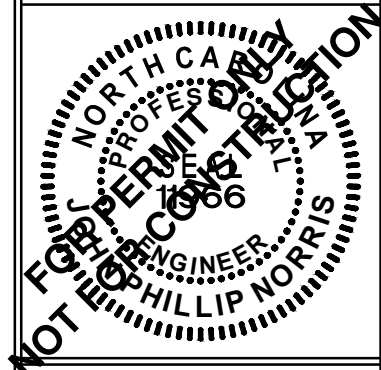
SITE INVENTORY PLAN
DOLLAR GENERAL - PINE GROVE
810 PINE GROVE DRIVE
NEW HANOVER COUNTY, NORTH CAROLINA

OWNER:
PAR 5 DEVELOPMENT, LLC
2860-B NC HWY 5
ABERDEEN, NC 28315
(P) 910-944-0881
lee@par5development.com

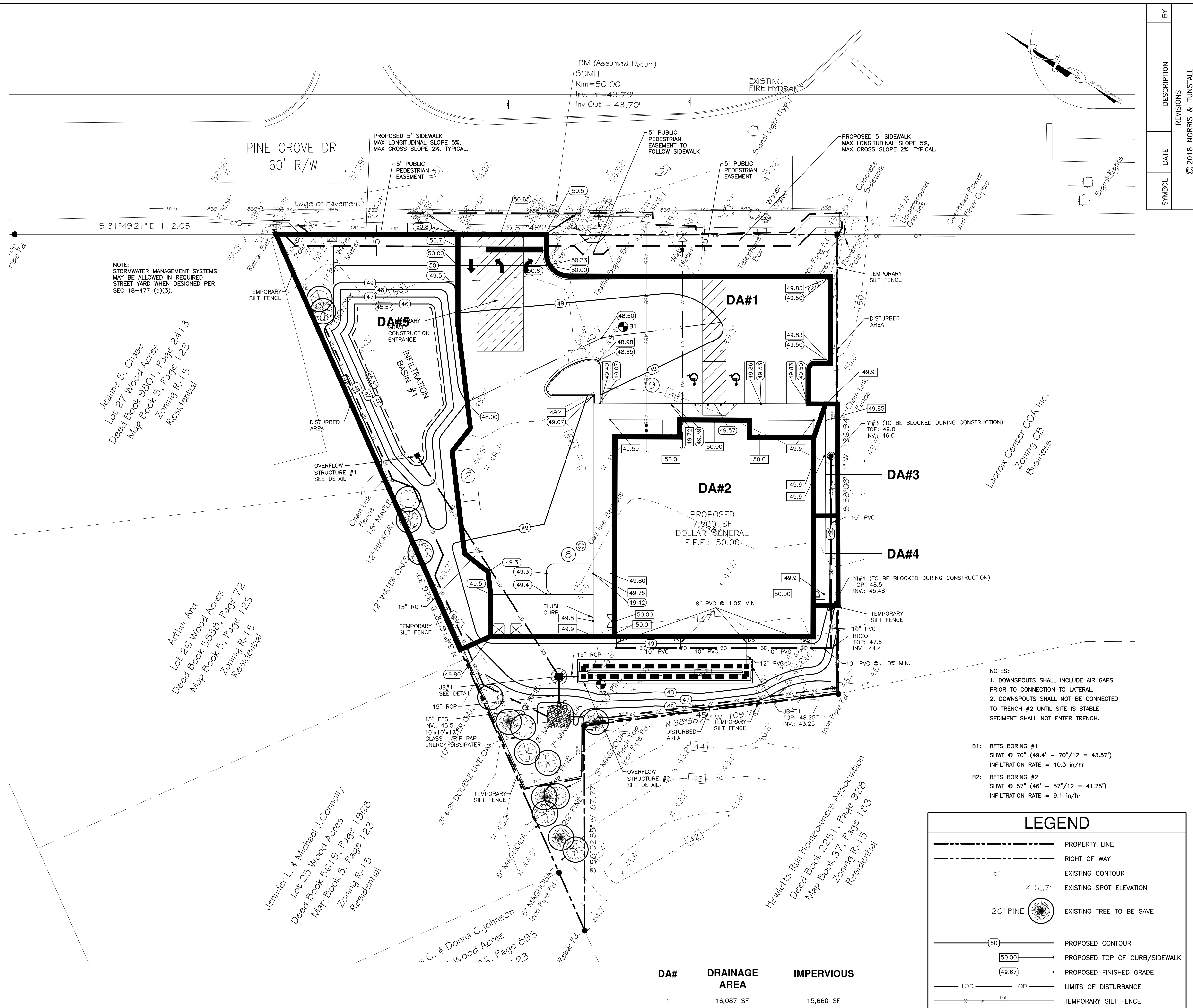
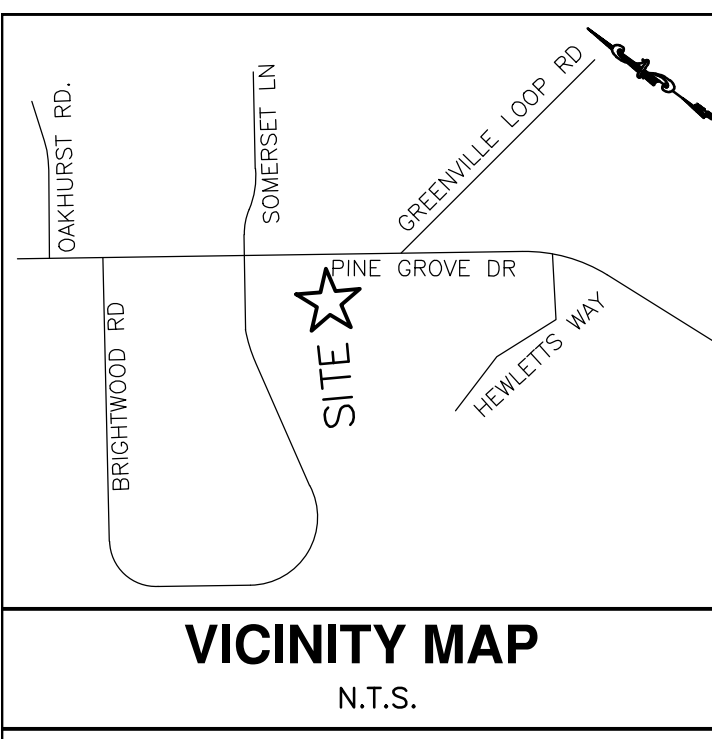
NORRIS & TUNSTALL
CONSULTING ENGINEERS P.C.
1429 ASH-LITTLE RIVER RD. NW
WILMINGTON, NC 28420
PHONE (910) 287-5900

License #C-3641
17145
DES. JPN
C.D. JPN
DRWN. EDB

DATE 06/28/18



C1



NOTE:
STORMWATER MANAGEMENT SYSTEMS
MAY BE ALLOWED IN REQUIRED
STREET YARD WHEN DESIGNED PER
SEC 18-477 (b)(3).

Jeanne S. Chase
Lot 27 Wood Acres
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Map Book 5, Page 123
Zoning R-15
Residential

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Deed Book 2251, Page 928
Map Book 37, Page 183
Zoning R-15
Residential

Lacroix Center COA Inc.
Zoning CB
Business

DA#	DRAINAGE AREA	IMPERVIOUS
1	16,087 SF	15,660 SF
2	7,500 SF	7,500 SF
3	459 SF	205 SF
4	405 SF	179 SF
5	7,467 SF	380 SF

- NOTES:
1. DOWNSPOUTS SHALL INCLUDE AIR GAPS PRIOR TO CONNECTION TO LATERAL.
 2. DOWNSPOUTS SHALL NOT BE CONNECTED TO TRENCH #2 UNTIL SITE IS STABLE. SEDIMENT SHALL NOT ENTER TRENCH.
- B1: RFTS BORING #1
SHWT @ 70" (49.4' - 70"/12 = 43.57')
INFILTRATION RATE = 10.3 in/hr
- B2: RFTS BORING #2
SHWT @ 57" (46' - 57"/12 = 41.25')
INFILTRATION RATE = 9.1 in/hr

LEGEND

- PROPERTY LINE
- - - RIGHT OF WAY
- - - EXISTING CONTOUR
- × 51.7' EXISTING SPOT ELEVATION
- ⊙ 26" PINE EXISTING TREE TO BE SAVE
- 50 — PROPOSED CONTOUR
- 50.00 — PROPOSED TOP OF CURB/SIDEWALK
- 49.67 — PROPOSED FINISHED GRADE
- LOD --- LIMITS OF DISTURBANCE
- TSP --- TEMPORARY SILT FENCE

SCALE: 1" = 20'

SYMBOL	DATE	DESCRIPTION	BY
		REVISIONS	

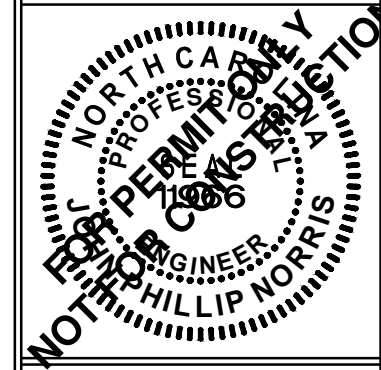
DRAINAGE AREA MAP
DOLLAR GENERAL - PINE GROVE
810 PINE GROVE DRIVE
NEW HANOVER COUNTY, NORTH CAROLINA

OWNER:
 PAR 5 DEVELOPMENT, LLC
 2860-B NC HWY 5
 ABERDEEN, NC 28315
 (P) 910-944-0881
 lee@par5development.com

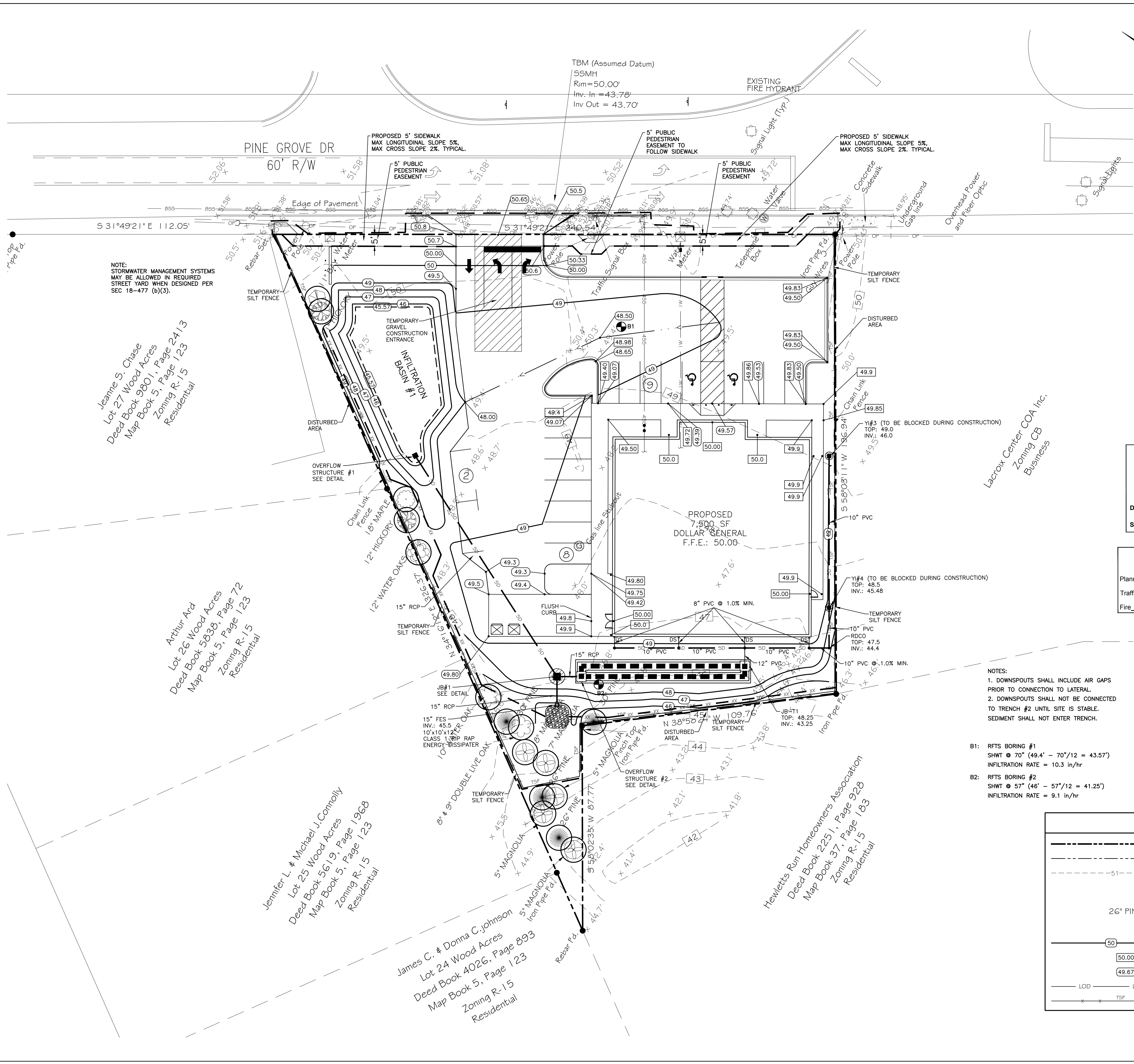
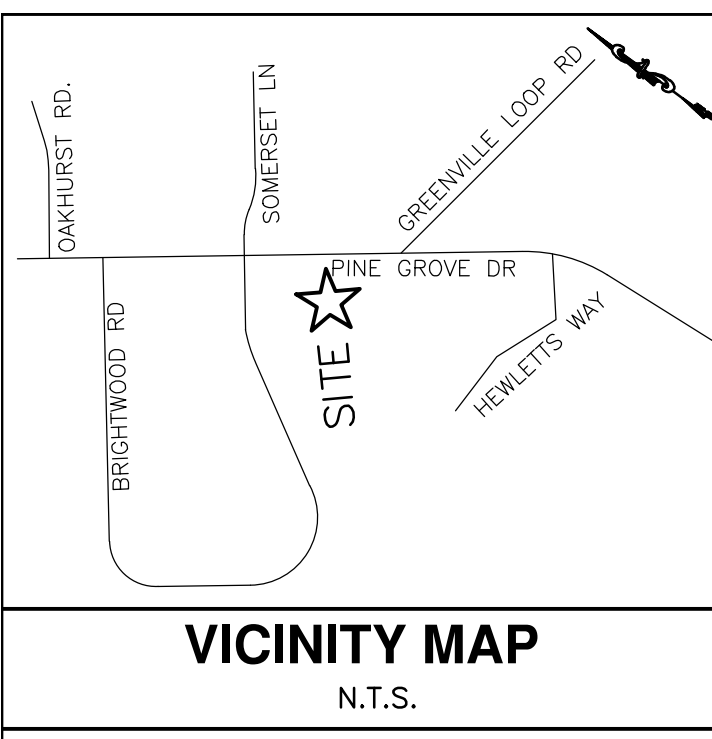
NORRIS & TUNSTALL
 CONSULTING ENGINEERS P.C.

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

902 MARKET STREET
 WILMINGTON, NC 28401
 PHONE (910) 345-9653



C2.1



NOTE:
STORMWATER MANAGEMENT SYSTEMS
MAY BE ALLOWED IN REQUIRED
STREET YARD WHEN DESIGNED PER
SEC 18-477 (b)(3).

Jeanne S. Chase
Lot 27 Wood Acres
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Map Book 5, Page 123
Zoning R-15
Residential

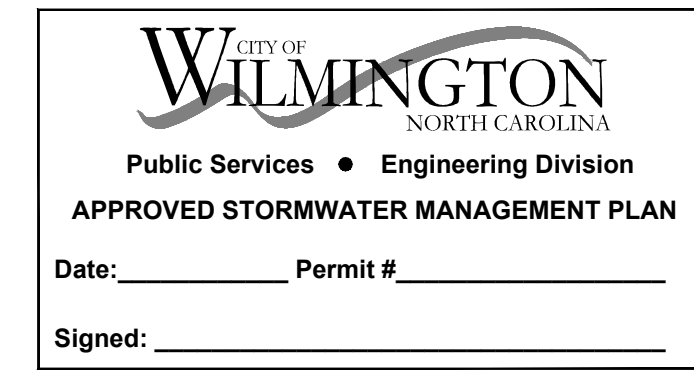
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Zoning R-15
Residential

Hewletts Run Homeowners Association
Deed Book 2251, Page 928
Map Book 37, Page 183
Zoning R-15
Residential

Lacroix Center COA Inc.
Zoning CB
Business



Approved Construction Plan

Name _____ Date _____

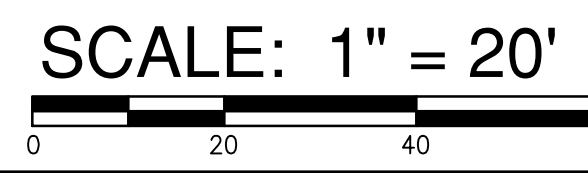
Planning _____

Traffic _____

Fire _____

- NOTES:
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INFILTRATION RATE = 10.3 in/hr
- B2: RFTS BORING #2
SHWT @ 57" (46' - 57"/12 = 41.25')
INFILTRATION RATE = 9.1 in/hr

LEGEND	
	PROPERTY LINE
	RIGHT OF WAY
	EXISTING CONTOUR
	EXISTING SPOT ELEVATION
	EXISTING TREE TO BE SAVE
	PROPOSED CONTOUR
	PROPOSED TOP OF CURB/SIDEWALK
	PROPOSED FINISHED GRADE
	LIMITS OF DISTURBANCE
	TEMPORARY SILT FENCE



SYMBOL	DATE	DESCRIPTION	BY

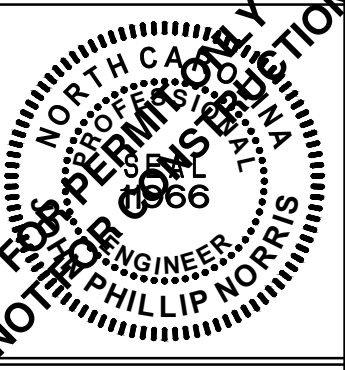
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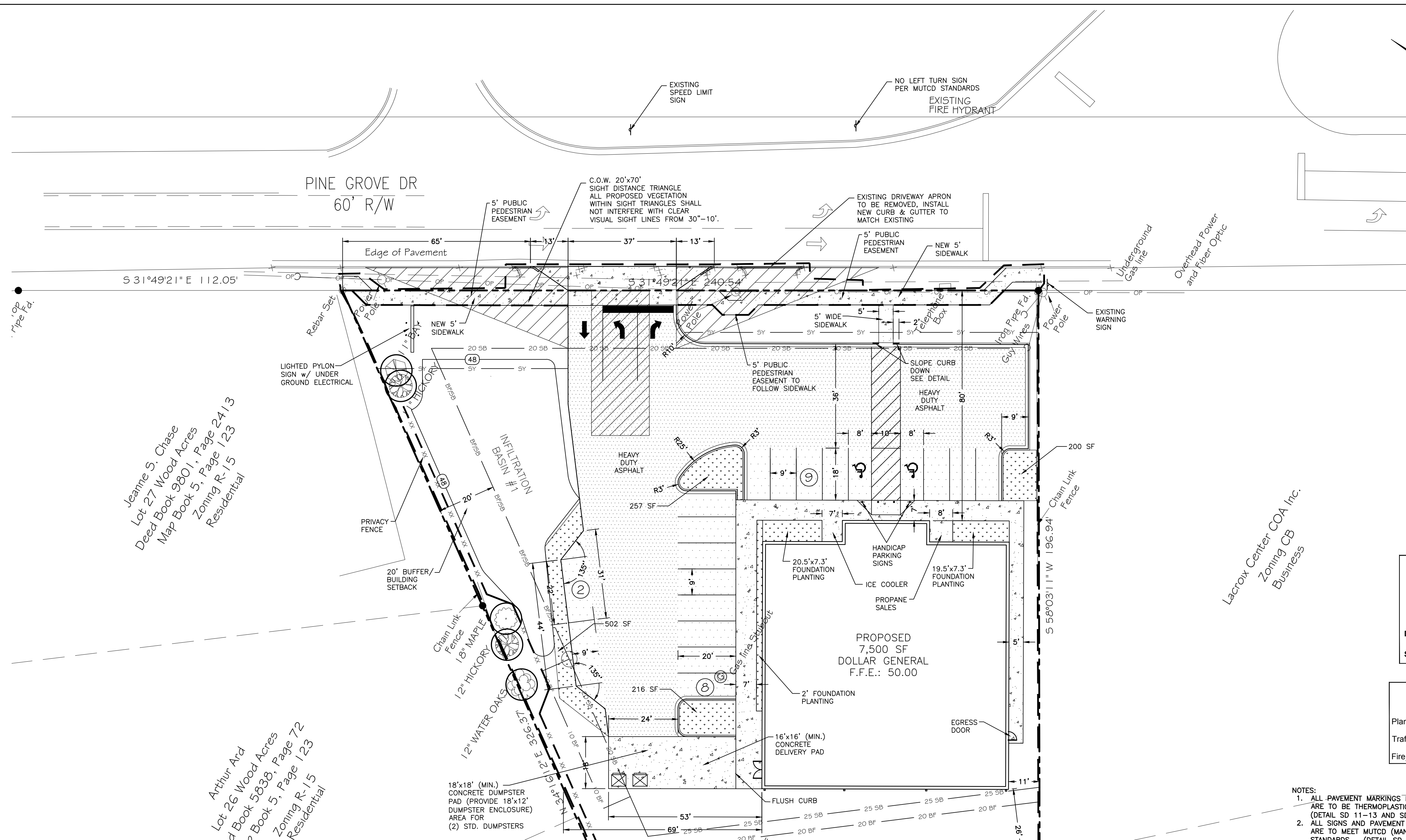
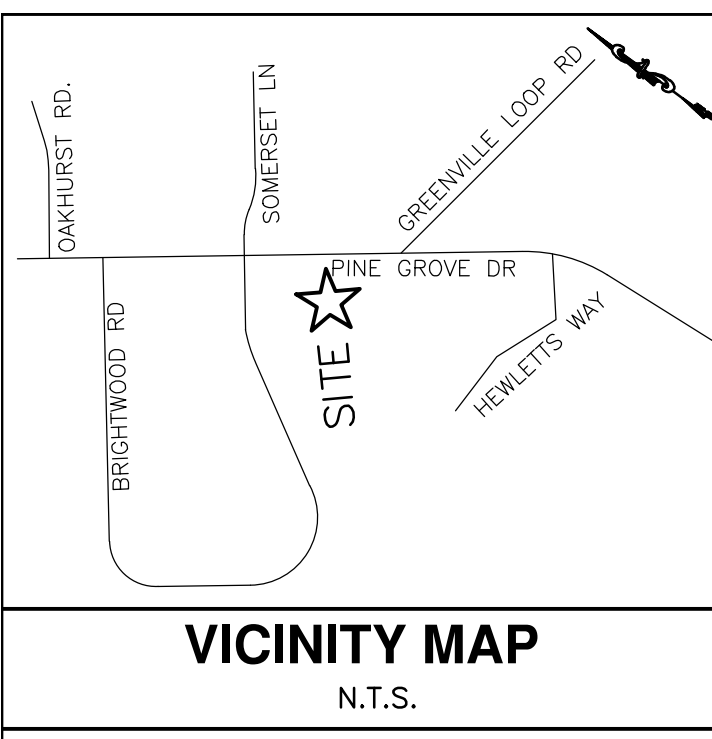
GRADING PLAN
DOLLAR GENERAL - PINE GROVE
810 PINE GROVE DRIVE
NEW HANOVER COUNTY, NORTH CAROLINA

OWNER:
PAR 5 DEVELOPMENT, LLC
2860-B NC HWY 5
ABERDEEN, NC 28315
(P) 910-944-0881
lee@rhetsoncompanies.com

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

License #C-3641
17145
DES. JPN
CHK. JPN
DRWN. EDB
DATE 06/28/18

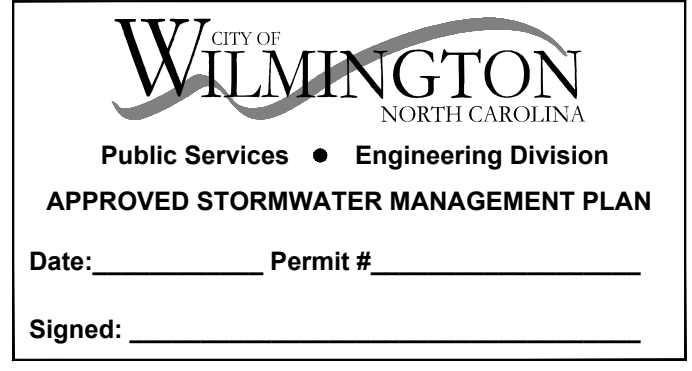




SYMBOL	DATE	DESCRIPTION	BY
REVISIONS			

LAYOUT PLAN
DOLLAR GENERAL - PINE GROVE
810 PINE GROVE DRIVE
NEW HANOVER COUNTY, NORTH CAROLINA

OWNER:
 PAR 5 DEVELOPMENT, LLC
 2860-B NC HWY 5
 ABERDEEN, NC 28315
 (P) 910-944-0881
 lee@par5development.com



Approved Construction Plan	
Name	Date
Planning	
Traffic	
Fire	

SITE DATA	
PARCEL NUMBER:	R06116-001-004-000
NEW SITE AREA:	41,828.29 SF / 0.96 AC
ZONING:	CB
DISTURBED AREA:	42,003 SF
BUILDING CONSTRUCTION TYPE:	2B
BUILDING USE:	RETAIL
BUILDING HEIGHT:	18' - 1 STORY - 7,500 SF
BUILDING LOT COVERAGE:	18%
WATER/SEWER DEMAND:	200 GALLONS PER DAY
BUILDING SETBACKS:	
FRONT:	20'
SIDE:	20' - ADJACENT TO RESIDENTIAL
REAR:	0' - NOT ADJACENT TO RESIDENTIAL
REAR:	25' - ADJACENT TO RESIDENTIAL
BUFFER:	20' - ADJACENT TO RESIDENTIAL
EXISTING IMPERVIOUS:	
EXISTING IMPERVIOUS TO BE REMOVED:	5,275 SF
EXISTING IMPERVIOUS TO REMAIN:	0 SF
PROPOSED IMPERVIOUS AREA:	
BUILDING:	7,500 SF
DRIVE ISLE / PARKING:	13,345 SF
WALKS / CONCRETE:	3,620 SF
TOTAL IMPERVIOUS AREA: PROPOSED	24,465 SF/0.56 AC
% IMPERVIOUS:	59.0%
PROPOSED OFFSITE IMPERVIOUS AREA:	
ASPHALT:	250 SF
WALKS / CONCRETE:	130 SF
PARKING REQUIREMENTS:	
MINIMUM: 1 PER 400 SF	18.75 SPACES
MAXIMUM: 1 PER 200 SF	37.5 SPACES
PARKING PROVIDED:	
SPACES PROVIDED:	17 SPACES
HANDICAP SPACES PROVIDED:	2 SPACES (1 REQUIRED)
TOTAL SPACES PROVIDED:	19 SPACES
STREETWAY:	
MULTIPLIER:	18
REQUIRED: (240.54'-37') 18=3,663.72 SF	
PROVIDED:	3,729 SF
FOUNDATION PLANTING:	
REQUIRED: (FRONT)	(18'x85') .12 = 183.6 SF
PROVIDED: (FRONT)	220 SF
REQUIRED: (SIDE)	(18'x58') .12 = 125.28 SF
PROVIDED: (SIDE)	130 SF
BICYCLE PARKING REQUIRED:	5
BICYCLE PARKING PROVIDED:	5

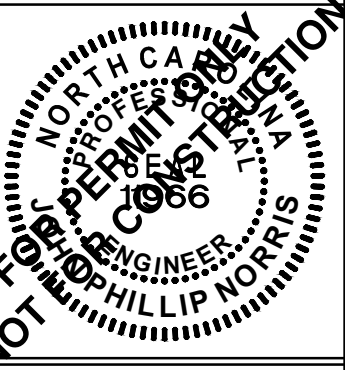
- NOTES:
- ALL PAVEMENT MARKINGS IN PUBLIC RIGHTS OF WAY AND FOR DRIVEWAYS ARE TO BE THERMOPLASTIC AND MEET CITY AND/OR NCDOT STANDARDS. (DETAIL SD 11-13 AND SD 15-13 CoW TECHNICAL STANDARDS).
 - ALL SIGNS AND PAVEMENT MARKINGS IN OPEN AREAS TO PUBLIC TRAFFIC ARE TO MEET MUTCD (MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES) STANDARDS (DETAIL SD 15-13 CoW TECHNICAL STANDARDS).
 - ALL TRAFFIC CONTROL SIGNS AND MARKINGS OFF THE RIGHT-OF-WAY ARE TO BE MAINTAINED BY THE PROPERTY OWNER IN ACCORDANCE WITH MUTCD STANDARDS.
 - ALL PARKING STALL MARKINGS AND LANE ARROWS WITHIN THE PARKING AREAS SHALL BE WHITE.
 - 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.
 - ANY BROKEN OR MISSING SIDEWALK PANELS, DRIVEWAY PANELS AND CURBING WILL BE REPLACED.
 - CONTACT TRAFFIC ENGINEERING AT 341-7888 FORTY-EIGHT HOURS PRIOR TO ANY EXCAVATION IN THE RIGHT OF WAY.
 - CONTRACTOR SHALL MAINTAIN AN ALL WEATHER ACCESS FOR EMERGENCY VEHICLES AT ALL TIMES DURING CONSTRUCTION.
 - ADDITIONAL FIRE PROTECTION AND ACCESSIBILITY REQUIREMENTS MAY BE REQUIRED DUE TO ANY SPECIAL CIRCUMSTANCES CONCERNING THE PROJECT.
 - 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 PLAN.

LEGEND	
	PROPERTY LINE
	RIGHT OF WAY
	EXISTING TREE TO BE SAVE
	10' SETBACK
	10' BUFFER
	20' SETBACK
	20' BUFFER
	25' SETBACK
	20' BUFFER / BUILDING SETBACK

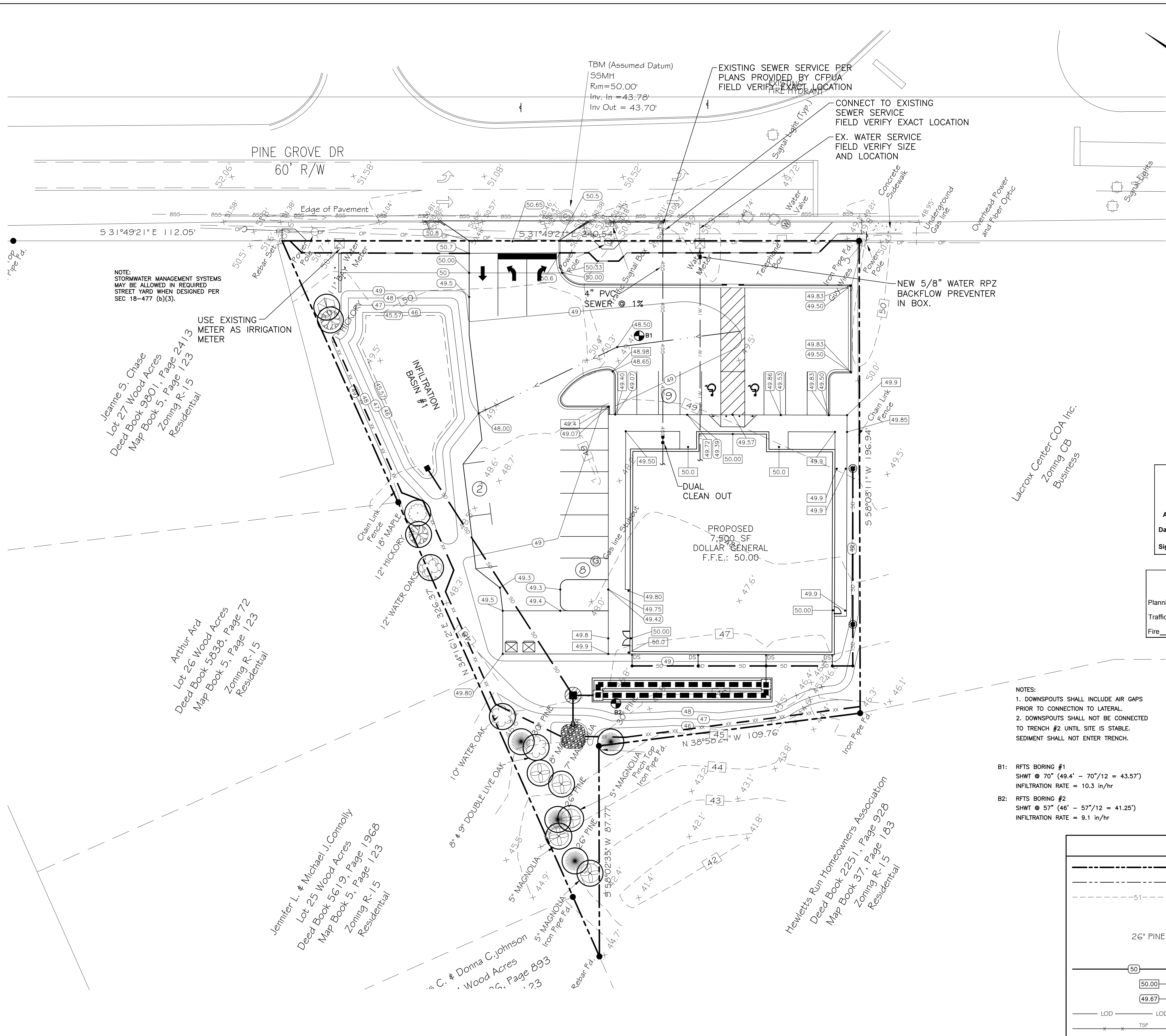
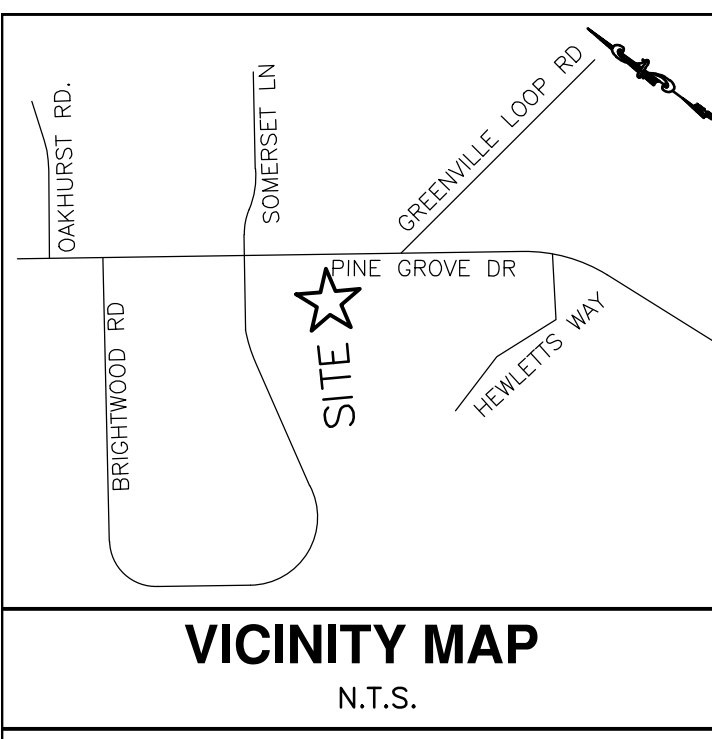
SCALE: 1" = 20'

NORRIS & TUNSTALL
 CONSULTING ENGINEERS P.C.
 902 MARKET STREET
 WILMINGTON, NC 28401
 PHONE (910) 345-9653

License #C-3641
17145
 DES. JPN
 C.D. JPN
 DRWN. EDB
 DATE 06/28/18



C3



NOTE:
STORMWATER MANAGEMENT SYSTEMS
MAY BE ALLOWED IN REQUIRED
STREET YARD WHEN DESIGNED PER
SEC 18-477 (b)(3).

USE EXISTING
METER AS IRRIGATION
METER

Jeanne S. Chase
Lot 27 Wood Acres
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Zoning R-15
Residential

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Lacrox Center COA Inc.
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Business

WILMINGTON
NORTH CAROLINA
Public Services • Engineering Division
APPROVED STORMWATER MANAGEMENT PLAN
Date: _____ Permit # _____
Signed: _____

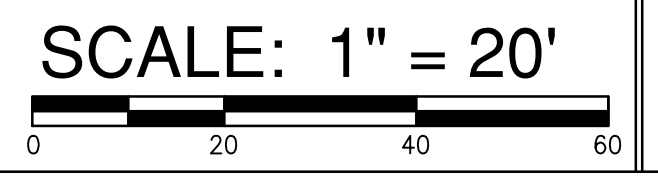
Approved Construction Plan

Name	Date
Planning	
Traffic	
Fire	

- NOTES:
1. DOWNSPOUTS SHALL INCLUDE AIR GAPS PRIOR TO CONNECTION TO LATERAL.
 2. DOWNSPOUTS SHALL NOT BE CONNECTED TO TRENCH #2 UNTIL SITE IS STABLE. SEDIMENT SHALL NOT ENTER TRENCH.

- B1: RFTS BORING #1
SHWT @ 70" (49.4' - 70"/12 = 43.57')
INFILTRATION RATE = 10.3 in/hr
- B2: RFTS BORING #2
SHWT @ 57" (46' - 57"/12 = 41.25')
INFILTRATION RATE = 9.1 in/hr

LEGEND	
	PROPERTY LINE
	RIGHT OF WAY
	EXISTING CONTOUR
	EXISTING SPOT ELEVATION
	EXISTING TREE TO BE SAVE
	PROPOSED CONTOUR
	PROPOSED TOP OF CURB/SIDEWALK
	PROPOSED FINISHED GRADE
	LIMITS OF DISTURBANCE
	TEMPORARY SILT FENCE



SYMBOL	DATE	DESCRIPTION	BY
		REVISIONS	

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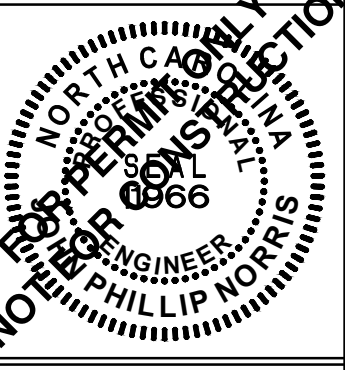
UTILITY PLAN
DOLLAR GENERAL - PINE GROVE
810 PINE GROVE DRIVE
NEW HANOVER COUNTY, NORTH CAROLINA

OWNER:
PAR 5 DEVELOPMENT, LLC
2860-B NC HWY 5
ABERDEEN, NC 28315
(P) 910-944-0881
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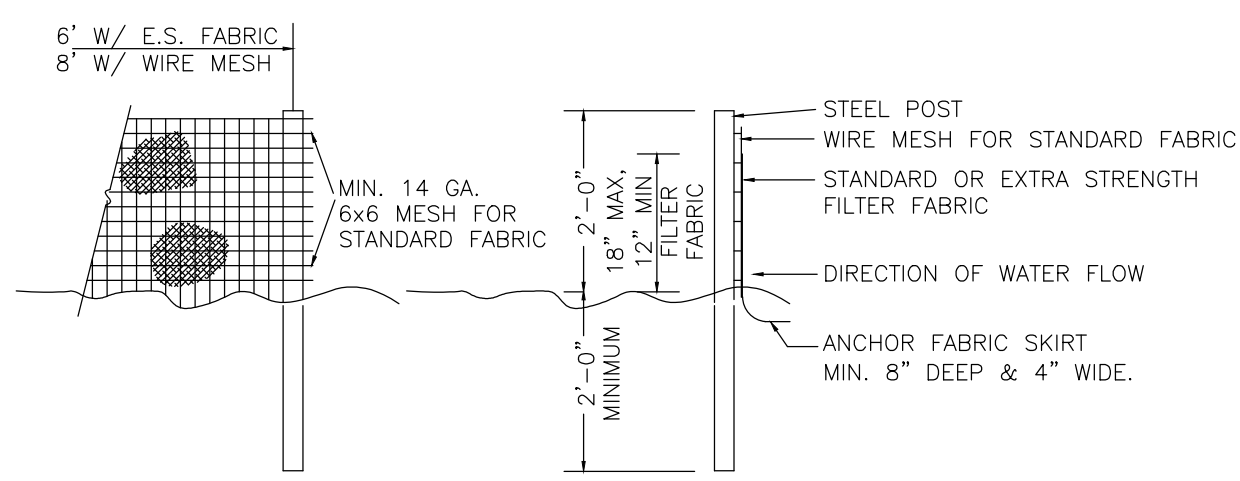
NORRIS & TUNSTALL
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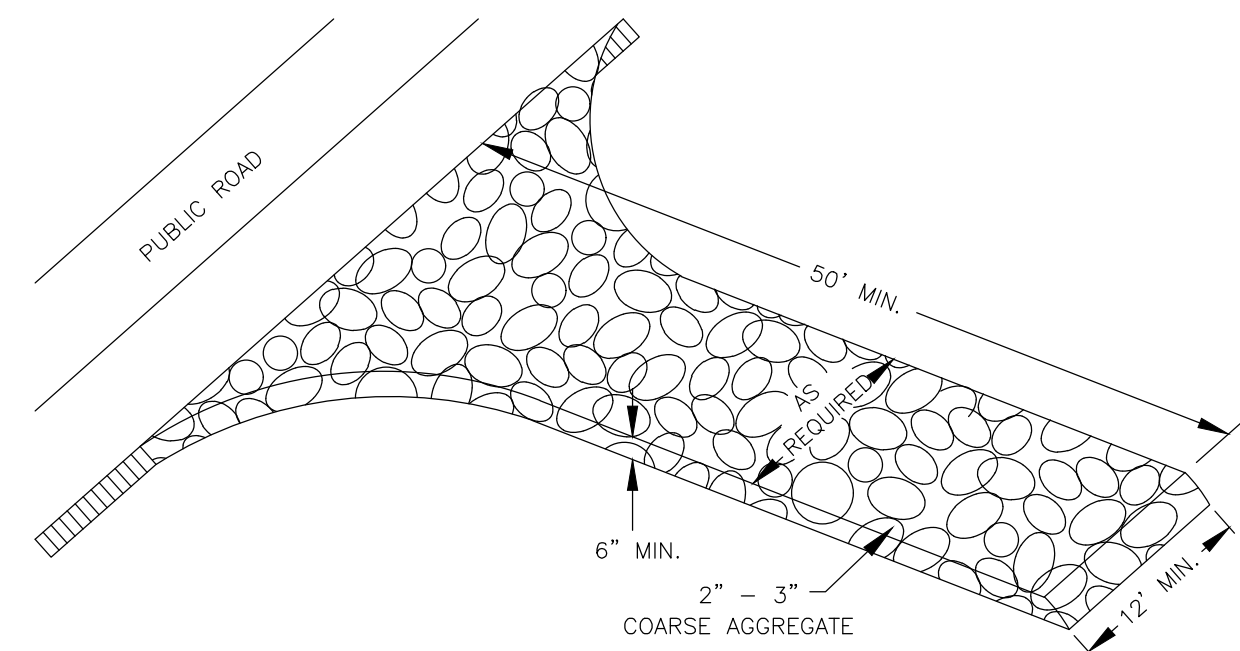
C4



- NOTES:
1. SYN. FENCE FABRIC SHALL BE MIN. OF 30" IN WIDTH WITH 30 LB/IN TENSILE STRENGTH FOR STANDARD FABRIC AND 50 LB/IN FOR EXTRA STRENGTH.
 2. FABRIC SHALL BE CONTINUOUS LENGTH. IF JOINTS ARE NECESSARY, LAP FABRIC POST TO POST.
 3. STEEL POST SHALL BE MIN 4" IN HEIGHT AND BE OF THE SELF-FASTENER STEEL ANGLE TYPE.

TEMPORARY SILT FENCE
NTS

TEMPORARY SILT FENCE MAINTENANCE
INSPECT SEDIMENT FENCES AT LEAST ONCE A WEEK AND EACH RAINFALL. MAKE ANY REQUIRED REPAIRS IMMEDIATELY. SHOULD THE FABRIC OF A SEDIMENT FENCE COLLAPSE, TEAR, DECOMPOSE OR BECOME INEFFECTIVE, REPLACE IT PROMPTLY. REMOVE SEDIMENT DEPOSITS AS NECESSARY TO PROVIDE ADEQUATE STORAGE VOLUME FOR THE NEXT RAIN AND TO REDUCE PRESSURE ON THE FENCE. TAKE CARE TO AVOID UNDERMINING THE FENCE DURING CLEANOUT. REMOVE ALL FENCING MATERIALS AND UNSTABLE IT AFTER THE CONTRIBUTING DRAINAGE AREA HAS BEEN PROPERLY STABILIZED.

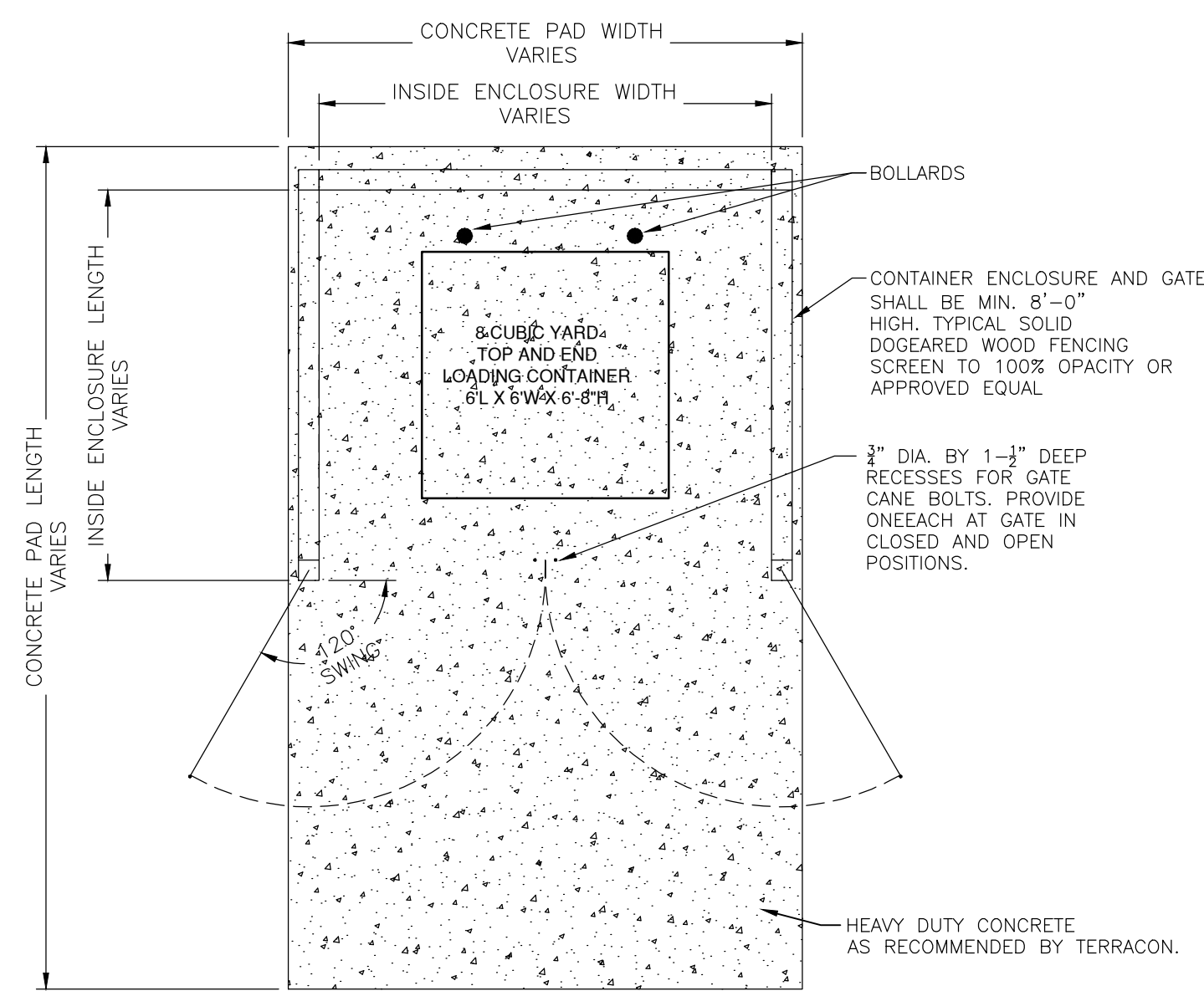


TEMPORARY GRAVELLED CONSTRUCTION ENTRANCE
NTS

GRAVEL CONSTRUCTION ENTRANCE

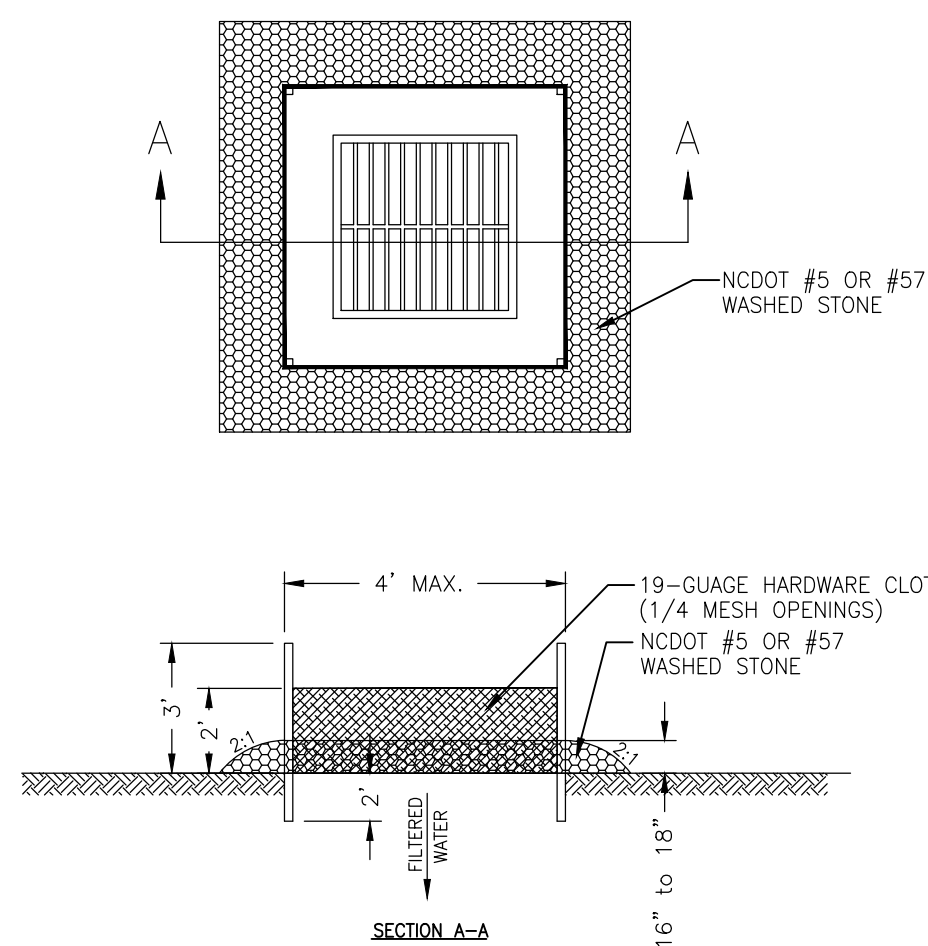
CONSTRUCTION SPECIFICATION:
1. CLEAR THE ENTRANCE AND EXIT AREA OF ALL VEGETATION, ROOTS, AND OTHER OBJECTIONABLE MATERIAL AND PROPERLY GRADE IT.
2. PLACE THE GRAVEL TO THE SPECIFIC GRADE AND DIMENSIONS SHOWN ON THE PLANS, AND SMOOTH IT.
3. PROVIDE DRAINAGE TO CARRY WATER TO A SEDIMENT TRAP OR OTHER SUITABLE OUTLET.
4. USE GEOTEXTILE FABRICS BECAUSE THEY IMPROVE STABILITY OF THE FOUNDATION IN LOCATIONS SUBJECT TO SEEPAGE OR HIGH WATER TABLE.

MAINTENANCE:
MAINTAIN THE GRAVEL PAD IS A CONDITION TO PREVENT MUD OR SEDIMENT FROM LEAVING THE CONSTRUCTION SITE. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH 2 INCH STONE. AFTER EACH RAINFALL, INSPECT ANY STRUCTURE USED TO TRAP SEDIMENT AND CLEAN IT OUT AS NECESSARY. IMMEDIATELY REMOVE ALL OBJECTIONABLE MATERIALS SPILLED, WASHED, OR TRACKED ONTO PUBLIC ROADWAYS.



TYPICAL CONTAINER ENCLOSURE PLAN
NTS

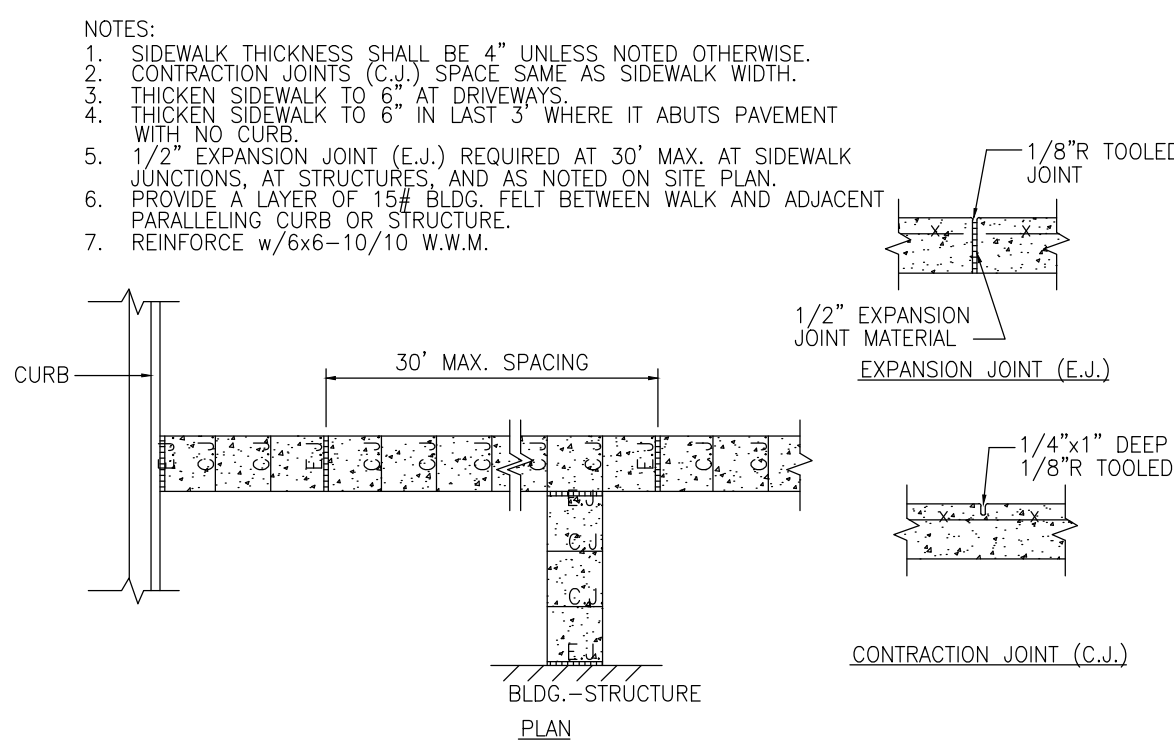
NOTE: DUMPSTER PAD AND ENCLOSURE VARY DEPENDING UPON CONTAINER REQUIREMENTS PER DOLLAR GENERAL CONTRACTOR SHALL PROVIDE SCREENING SO THAT PROPER CLEARANCES ARE MAINTAINED TO ALLOW LOADING & UNLOADING OF CONTAINER.



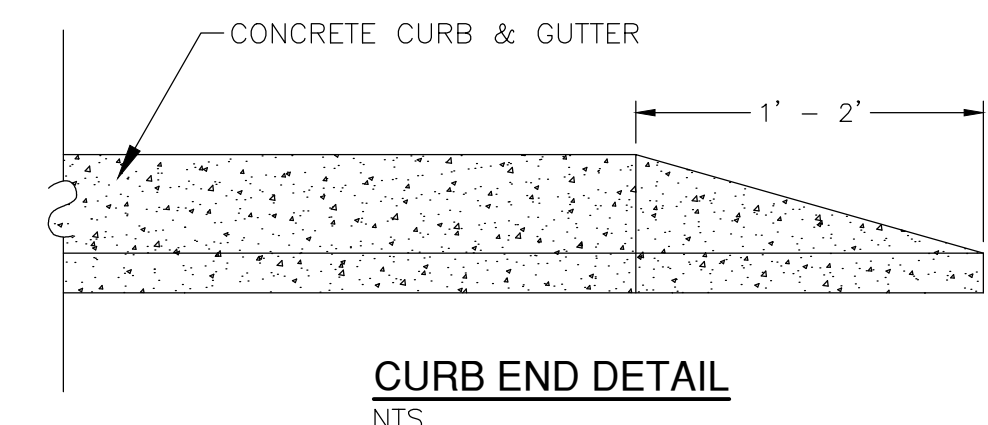
HARDWARE CLOTH & GRAVEL INLET PROTECTION
NTS

- CONSTRUCTION SEQUENCE:
1. UNIFORMLY GRADE A SHALLOW DEPRESSION APPROACHING THE INLET.
 2. DRIVE 5" STEEL POST 2" INTO THE GROUND SURROUNDING THE INLET. SPACE POST EVENLY AROUND THE PERIMETER OF THE INLET, A MAXIMUM OF 4' APART.
 3. SURROUND THE POST WITH WIRE MESH HARDWARE CLOTH. SECURE THE WIRE MESH TO THE STEEL POST AT THE TOP, MIDDLE AND BOTTOM. PLACING A 2' FLAP OF THE WIRE MESH UNDER THE GRAVEL FOR ANCHORING IS RECOMMENDED.
 4. PLACE CLEAN GRAVEL (NCDOT #5 OR #57 STONE) ON A 2:1 SLOPE WITH A HEIGHT OF 16" TO 18" AROUND THE WIRE, AND SMOOTH TO AN EVEN GRADE.
 5. ONCE THE CONTRIBUTING DRAINAGE AREA HAS BEEN STABILIZED, REMOVE ACCUMULATED SEDIMENT, AND ESTABLISH FINAL GRADING ELEVATIONS.
 6. COMPACT THE AREA PROPERLY AND STABILIZE IT WITH GROUND COVER.

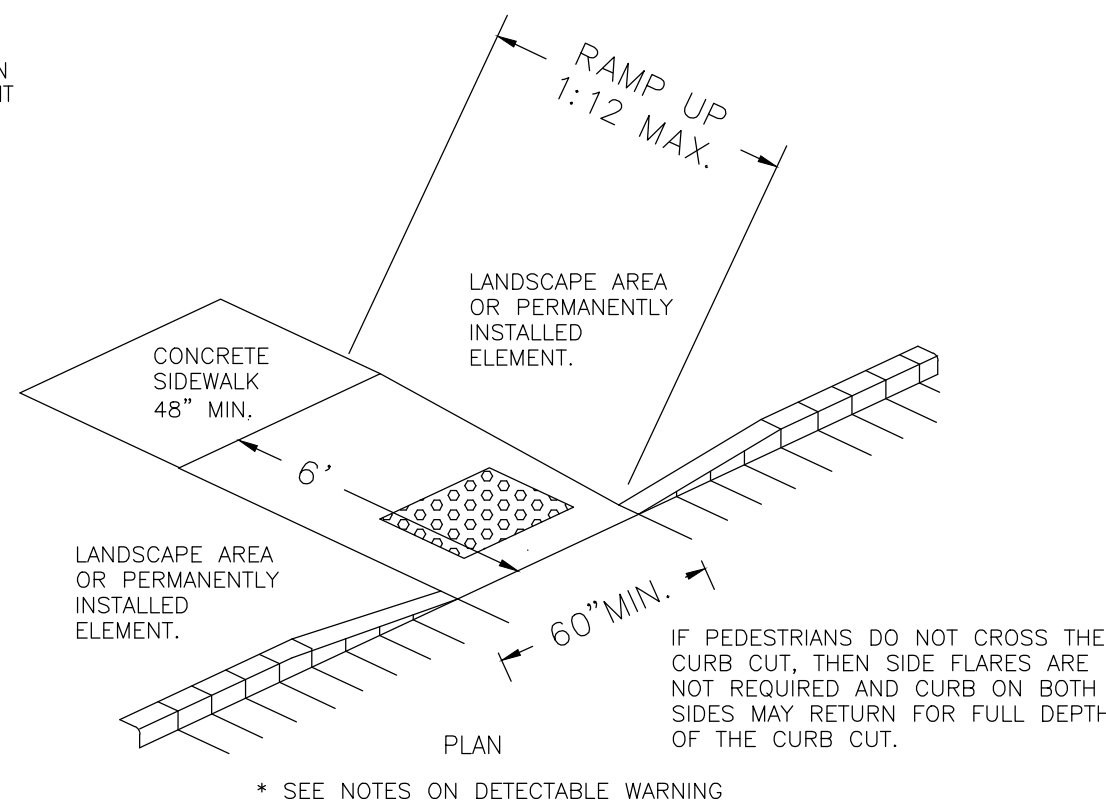
MAINTENANCE:
INSPECT INLETS AT LEAST WEEKLY AND AFTER EACH SIGNIFICANT (1/2 INCH OR GREATER) RAINFALL EVENT. CLEAR THE MESH WIRE OF ANY DEBRIS OR OTHER OBJECTS TO PROVIDE ADEQUATE FLOW FOR SUBSEQUENT RAINS. TAKE CARE NOT TO DAMAGE OR UNDERCUT THE WIRE MESH DURING SEDIMENT REMOVAL. REPLACE STONE AS NEEDED.



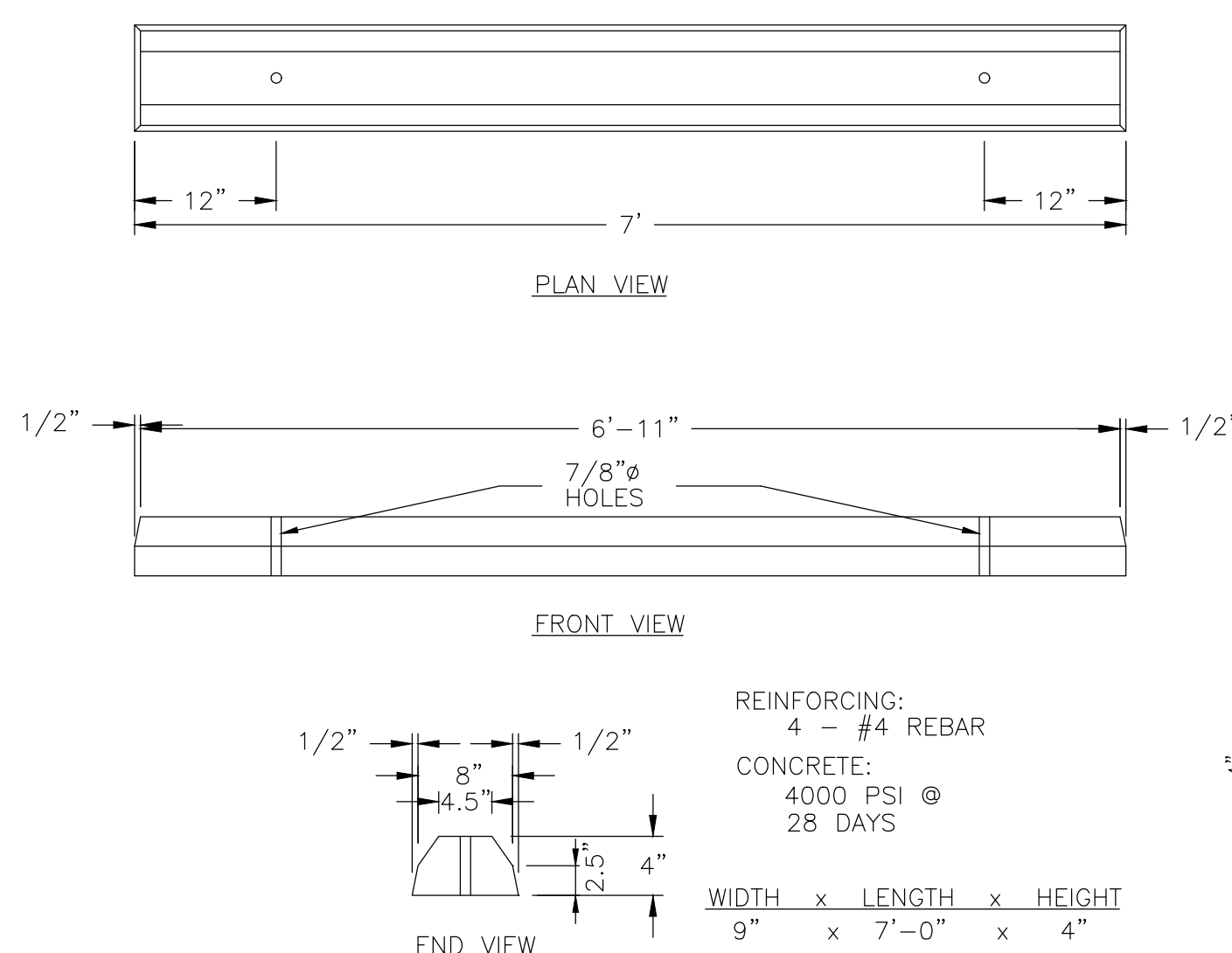
SIDEWALK JOINT DETAILS
NTS



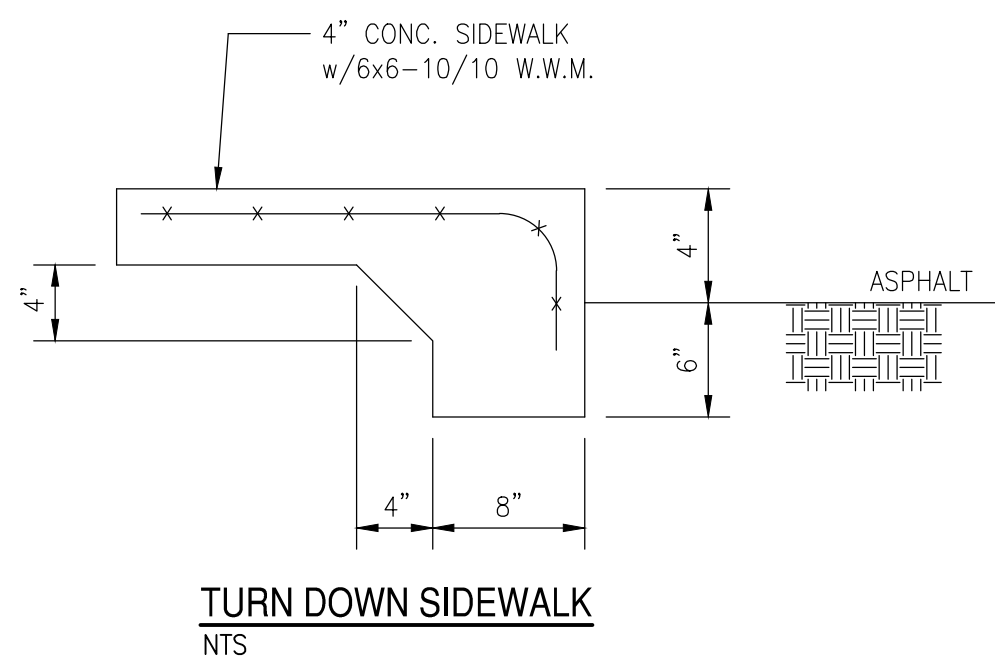
CURB END DETAIL
NTS



SIDEWALK, CURB CUT AND WHEEL CHAIR RAMP DETAIL
NTS



WHEEL STOP DETAIL
NTS



TURN DOWN SIDEWALK
NTS

TEMPORARY/PERMANENT GRASS SPECIFICATION

1. CHISEL COMPACTED AREAS AND SPREAD TOPSOIL 3 INCHES DEEP OVER ADVERSE SOIL CONDITIONS.
2. RIP THE ENTIRE AREA TO A 6 INCH DEPTH.
3. REMOVE ALL ROCKS, ROOTS AND OTHER OBSTRUCTIONS LEAVING SURFACES SMOOTH AND UNIFORM.
4. 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.
5. CONTINUE TILLAGE UNTIL A WELL PULVERIZED, FIRM, UNIFORM SEED BED IS PREPARED 4-6 INCHES DEEP.
6. SEED ON A FRESHLY PREPARED SEED BED AND COVER SEED LIGHTLY. 2 - 3 LBS PER 1000 S.F. (SEE MIXTURE BELOW)
7. MULCH IMMEDIATELY AFTER SEEDING AND ANCHOR MULCH. GRASS 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
8. 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.
9. INSPECT ALL SEEDING AREAS AND MAKE NECESSARY REPAIRS OR RESEED WITHIN THE PLANTING SEASON, IF POSSIBLE. IF GRASS STAND SHOULD BE OVER 60% DAMAGED, REESTABLISH FOLLOWING ORIGINAL LINE, FERTILIZER AND SEEDING RATES.
10. CONSULT CONSERVATION INSPECTOR ON MAINTENANCE, TREATMENT, AND FERTILIZATION AFTER PERMANENT COVER IS ESTABLISHED.
11. SEED FOR TEMPORARY AND PERMANENT APPLICATIONS SHALL BE:
20% CARPET GRASS
24% BERMUDA GRASS
20% TURF FESCUE 10% CREEPING RED FESCUE
24% 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 SEEDEN WITHIN 7 TO 14 DAYS OF THE COMPLETION OF GRADING. CONSULT CONSERVATION ENGINEER OR SOIL CONSERVATION SERVICE FOR ADDITIONAL INFORMATION CONCERNING OTHER ALTERNATIVES FOR VEGETATION OF DENIED AREAS. THE ABOVE VEGETATION RATES ARE THOSE WHICH DO WELL UNDER LOCAL CONDITIONS, OTHER SEEDING SCHEDULES MAY BE POSSIBLE.

NPDES STABILIZATION TIMEFRAMES

SITE AREA DESCRIPTION	STABILIZATION	TIMEFRAME EXCEPTIONS
PERIMETER DIKES, SWALES, DITCHES AND SLOPES	7 DAYS	NONE
HIGH QUALITY WATER (HOW) ZONES	7 DAYS	NONE
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
SLOPES 3:1 OR FLATTER	14 DAYS	7 DAYS FOR SLOPES GREATER THAN 50' IN LENGTH
ALL OTHER AREAS WITH SLOPES FLATTER THAN 4:1	14 DAYS	NONE, EXCEPT FOR PERIMETERS AND HOW ZONES

TEMPORARY SEEDING RECOMMENDATIONS FOR FALL

SPECIES	SEEDING MIXTURE RATE (lb/acre)
RYE (GRAIN)	120

SEEDING DATES
MOUNTAINS - AUG. 15 - DEC. 15
COASTAL PLAIN AND PIEDMONT - AUG. 15 - DEC. 15

SOIL AMENDMENTS
FOLLOW SOIL TEST OR APPLY 2,000 lb/acre GROUND AGRICULTURAL LIMESTONE AND 1,000 lb/acre 10-10-10 FERTILIZER.

MULCH
APPLY 4,000 lb/acre STRAW. ANCHOR STRAW BY TACKING WITH ASPHALT, NETTING, OR A MULCH ANCHORING TOOL. A DISK WITH BLADES SET NEARLY STRAIGHT CAN BE USED AS A MULCH ANCHORING TOOL.

MAINTENANCE
REPAIR AND REFERTILIZE DAMAGE AREAS IMMEDIATELY. TOP DRESS WITH 50 lb/acre OF NITROGEN IN MARCH, IF IT IS NECESSARY TO EXTEND TEMPORARY COVER BEYOND JUNE 15, OVERSEED WITH 50 lb/acre KOBE (PIEDMONT AND COASTAL PLAIN) OR KOREAN (MOUNTAINS) LESPEDEZA IN LATE FEBRUARY OR EARLY MARCH.

TEMPORARY SEEDING RECOMMENDATIONS FOR LATE WINTER AND EARLY SPRING

SPECIES	SEEDING MIXTURE RATE (lb/acre)
RYE (GRAIN)	120
ANNUAL LESPEDEZA (KOBE IN PIEDMONT AND COASTAL PLAIN, KOREAN IN MOUNTAINS)	50

OMIT ANNUAL LESPEDEZA WHEN DURATION OF TEMPORARY COVER IS NOT TO EXTEND BEYOND JUNE.

SEEDING DATES
MOUNTAINS - ABOVE 2,500 FEET: FEB. 15 - MAY 15
BELOW 2,500 FEET: FEB. 1 - MAY 1
PIEDMONT - JAN. 1 - MAY 1
COASTAL PLAIN - DEC. 1 - APRIL 15

SOIL AMENDMENTS
FOLLOW RECOMMENDATIONS OF SOIL TESTS OR APPLY 2,000 lb/acre GROUND AGRICULTURAL LIMESTONE AND 750 lb/acre 10-10-10 FERTILIZER.

MULCH
APPLY 4,000 lb/acre STRAW. ANCHOR STRAW BY TACKING WITH ASPHALT, NETTING, OR A MULCH ANCHORING TOOL. A DISK WITH BLADES SET NEARLY STRAIGHT CAN BE USED AS A MULCH ANCHORING TOOL.

MAINTENANCE
REFERTILIZE IF GROWTH IS NOT FULLY ADEQUATE. RESEED, REFERTILIZE AND MULCH IMMEDIATELY FOLLOWING EROSION OR OTHER DAMAGE.

TEMPORARY SEEDING RECOMMENDATIONS FOR LATE WINTER AND EARLY SPRING

SPECIES	SEEDING MIXTURE RATE (lb/acre)
RYE (GRAIN)	120
ANNUAL LESPEDEZA (KOBE IN PIEDMONT AND COASTAL PLAIN, KOREAN IN MOUNTAINS)	50

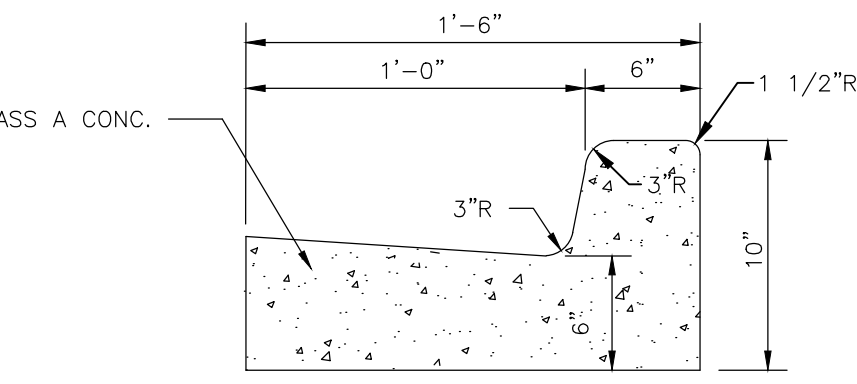
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MAINTENANCE
REFERTILIZE IF GROWTH IS NOT FULLY ADEQUATE. RESEED, REFERTILIZE AND MULCH IMMEDIATELY FOLLOWING EROSION OR OTHER DAMAGE.



18" FLOW LINE CURB SECTION
NTS

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.

NOTE:
1. PRIOR TO ANY FIELD MODIFICATION, REVISIONS SHALL BE APPROVED BY N&T. ANY DEVIATIONS FROM APPROVED PLANS MAY RESULT IN NON CONFORMANCE WITH PERMITS OR PERMITTED CONDITIONS. REVISIONS MAY REQUIRE RE-ANALYSIS & PERMIT MODIFICATION AT OWNERS EXPENSE AND COULD POTENTIALLY DELAY C.O. OR REQUIRE WORK STOPPAGE UNTIL PROJECT IS BROUGHT BACK INTO PERMIT COMPLIANCE.

SITE WORK NOTES:

1. THE CONTRACTOR SHALL VISIT THE SITE TO BECOME FAMILIAR WITH FIELD CONSTRUCTION CONDITIONS.
2. CONTRACTOR SHALL COORDINATE WORK WITHIN NCDOT AND LOCAL RIGHT OF WAYS WITH PROPER AUTHORITIES AND SHALL MEET ANY REQUIREMENTS AS TO TRAFFIC CONTROL AND CONNECTION TO EXISTING STREETS.
3. 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.
4. STRIPPING: BEFORE EXCAVATING OR FILLING, REMOVE ALL TOPSOIL, WOOD, LEAVES, AND ANY OTHER UNSUITABLE MATERIAL.
5. 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.
6. DISPOSAL: CLEARED, GRUBBED, STRIPPED OR EXCAVATED SPOIL SHALL BE REMOVED FROM SITE AND DISPOSED OF IN ACCORDANCE WITH ALL APPLICABLE LOCAL AND STATE CODES.
7. BORROW MATERIAL: THE CONTRACTOR SHALL FURNISH BORROW MATERIAL REQUIRED FROM OFF SITE AND OBTAIN ALL REQUIRED PERMITS ASSOCIATED WITH BORROW OPERATIONS.
8. FILL AND COMPACTION: AFTER STRIPPING THOSE AREAS DESIGNATED TO RECEIVE FILL SHOULD BE PROOFROLLED. 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-5M, OR SC. FILL MATERIAL 5' OUTSIDE OF BUILDING AREAS SHALL THEN BE PLACED IN LAYERS NOT TO EXCEED 8" AND COMPACTED TO AT LEAST 95% OF THE STANDARD PROCTOR MAXIMUM DRY DENSITY (ASTM D-698) WITH THE UPPER 12 INCHES OF SUBGRADE BEING COMPACTED TO 98% OF THE STANDARD PROCTOR MAXIMUM DRY DENSITY. FILL MATERIALS WITHIN BUILDING AREAS TO A LINE OUTSIDE THE BUILDING AREAS SHALL 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 SHOULD BE COMPACTED TO AT LEAST 98% 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.
9. LAYOUT: THE CONTRACTOR SHALL PROVIDE ALL LAYOUT REQUIRED TO CONSTRUCT HIS WORK.
10. THE CONTRACTOR IS RESPONSIBLE FOR THE LOCATION AND PROTECTION OF EXISTING UTILITIES DURING CONSTRUCTION.
11. EXISTING BOUNDARY AND TOPOGRAPHIC INFORMATION FROM SURVEY BY NORRIS & WARD LAND SURVEYING AND PROVIDED BY OWNER.
12. THE CONTRACTOR SHALL VERIFY DIMENSIONS AT JOBSITE.
13. THE CONTRACTOR IS RESPONSIBLE FOR THE COORDINATION OF RELOCATION OR DISCONNECTION OF ALL EXISTING UTILITIES WITH APPLICABLE AGENCIES AND AUTHORITIES.
14. ALL PAVEMENT AND BASE MATERIALS AND WORKMANSHIP SHALL CONFORM TO NCDOT STANDARDS.
15. WATER AND SEWER SERVICES SHALL BE INSTALLED TO MEET LOCAL AND STATE PLUMBING CODES. METER AND TAPS SHALL MEET ALL LOCAL REQUIREMENTS.
16. ALL AREAS SHALL BE GRADED FOR POSITIVE DRAINAGE.
17. SEE GEOTECHNICAL REPORT FOR ADDITIONAL REQUIREMENTS.
18. CONTRACTOR SHALL NOTE THAT EARTHWORK QUANTITIES ARE HIS RESPONSIBILITY. PLANS DO NOT REPRESENT A BALANCED EARTHWORK CONDITION.
19. USE WHITE LANE MARKING PAINT FOR ALL PAVEMENT MARKINGS. PAINT SHALL BE A CHLORINATED RUBBER ALKYL, FS TT-P-115, TYPE III, FACTORY MIXED, QUICK DRYING, NON-BLEEDING.
20. REFER TO THE PLUMBING DRAWINGS FOR LOCATION AND INVERTS OF NEW WASTE AND WATER LINES.

SYMBOL	DATE	REVISIONS	DESCRIPTION	BY

DETAILS
DOLLAR GENERAL - PINE GROVE
810 PINE GROVE DRIVE
NEW HANOVER COUNTY, NORTH CAROLINA

OWNER:
PAR 5 DEVELOPMENT, LLC
2860-B NC HWY 5
ABERDEEN, NC 28315
(P) 910-944-0881
lee@hatscompanies.com

NORRIS & TUNSTALL
CONSULTING ENGINEERS P.C.
1429 ASH-LITTLE RIVER RD. NW
WILMINGTON, NC 28401
PHONE (910) 297-5900

902 MARKET STREET
WILMINGTON, NC 28401
PHONE (910) 345-9653

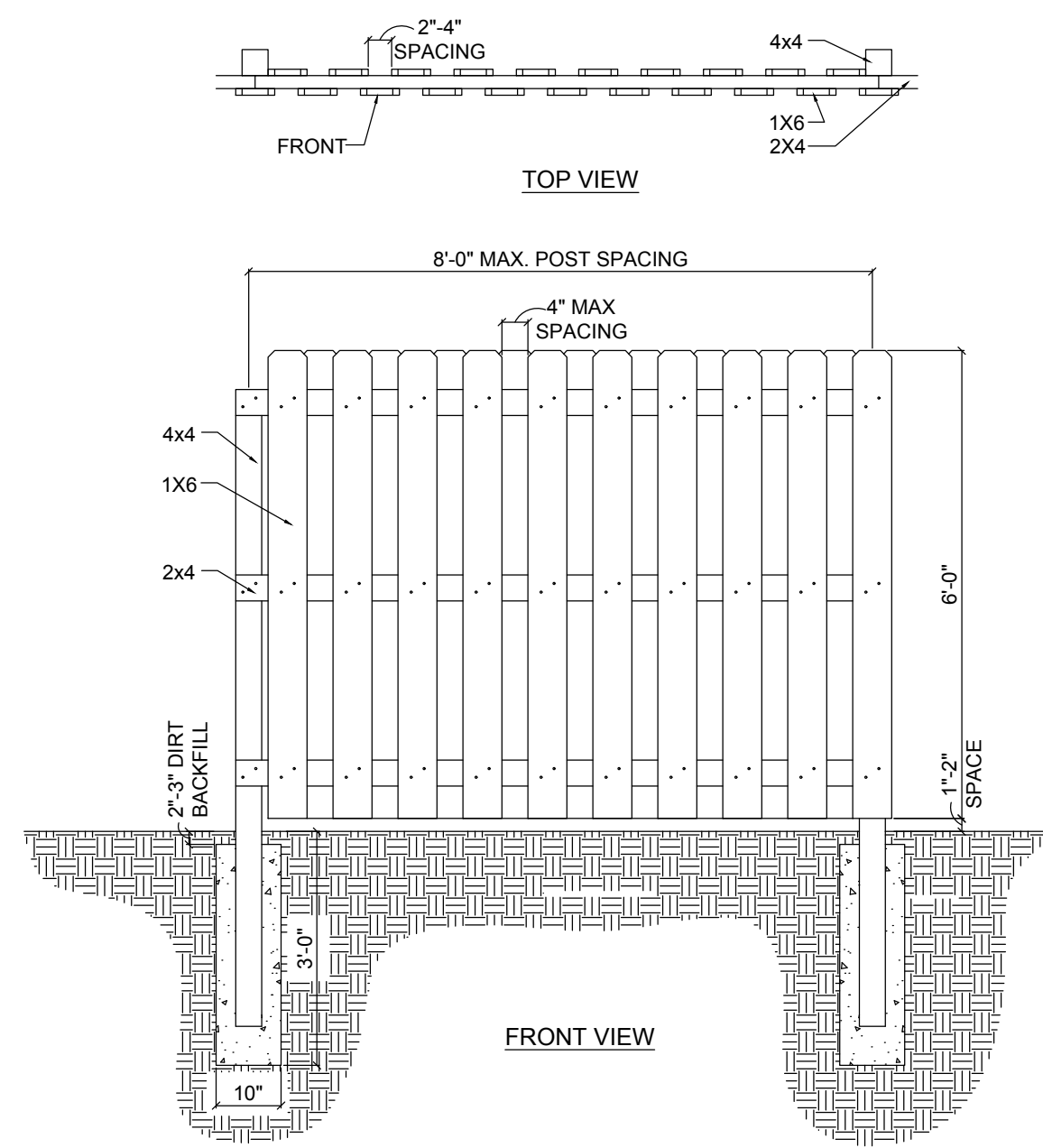
License #C-3641
17145
DES. JPN
ORD. JPN
DRWN. EDB

DATE 06/28/18

APPROVED STORMWATER MANAGEMENT PLAN
Date: _____ Permit # _____
Signed: _____

Approved Construction Plan
Name _____ Date _____
Planning _____
Traffic _____
Fire _____

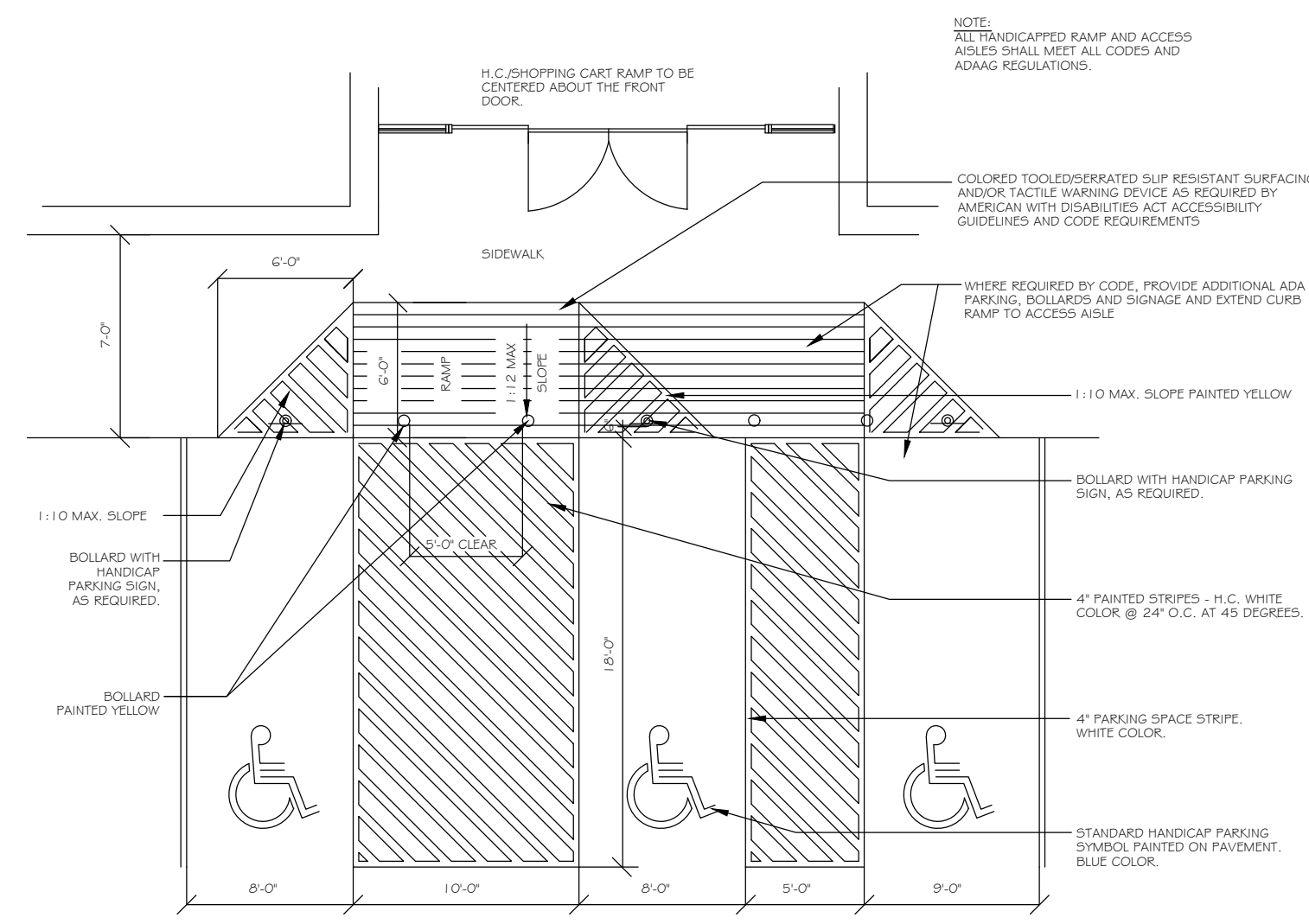
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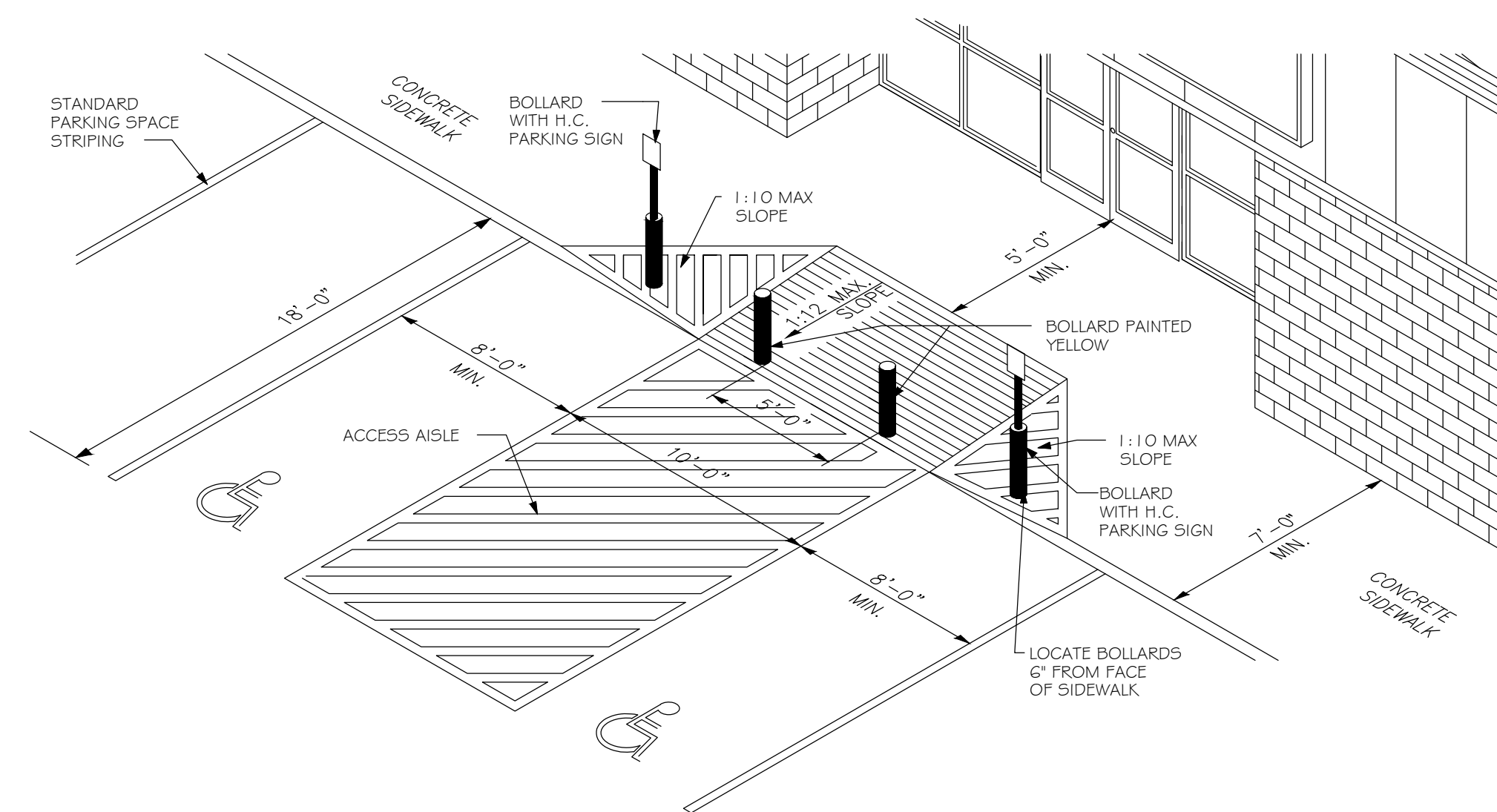
PRIVACY FENCE
NTS

IF AN UNOBSTRUCTED VIEW EXISTS OF A RESIDENTIAL BUILDING BETWEEN TENANT PARCEL AND ADJACENT PARCEL, THEN LESSOR SHALL CONSTRUCT A PRIVACY FENCE IN ACCORDANCE WITH TENANT'S PROTOTYPE CRITERIA SET PLANS AND ANY APPLICABLE GOVERNMENTAL REQUIREMENTS.

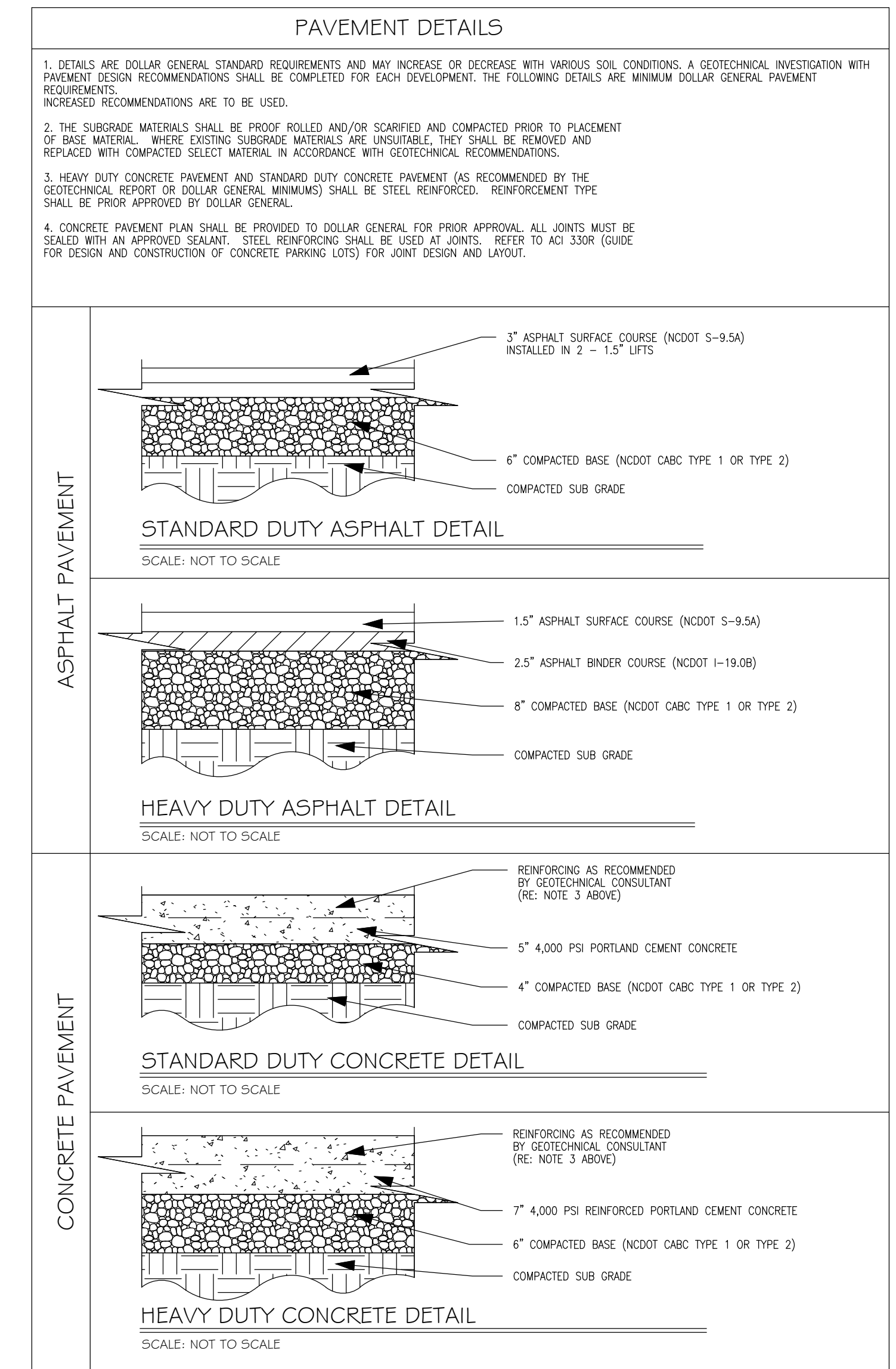
- NOTE:
1. WOOD TO BE TREATED PINE. USE GALVANIZED NAILS FOR FASTENING.
2. NUMBER OF BOARDS WILL VARY DEPENDING ON SPACE BETWEEN BOARDS AND ACTUAL WIDTH OF BOARDS.



HANDICAP PARKING DETAIL
NTS
NOTE: ALL STRIPING SHALL BE WHITE. HANDICAP SYMBOL MAY BE BLUE. [SEC. 18-529(b)(2) CITY OF WILMINGTON LAND DEVELOPMENT CODE]



HANDICAP PARKING, ACCESS RAMP AND ACCESS AISLE DETAILS
NTS



* PAVEMENT SECTIONS HAVE BEEN EDITED TO REFLECT RECOMMENDATIONS PROVIDED BY TERRACON. SEE GEOTECHNICAL REPORT FOR ALL PAVING REQUIREMENTS.

BY	DESCRIPTION
	REVISIONS
	DATE
	SYMBOL

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NEW HANOVER COUNTY, NORTH CAROLINA

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2860-B NC HWY 5
ABERDEEN, NC 28315
(P) 910-944-0881
lee@hatsontocompanies.com

NORRIS & TUNSTALL
CONSULTING ENGINEERS P.C.

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

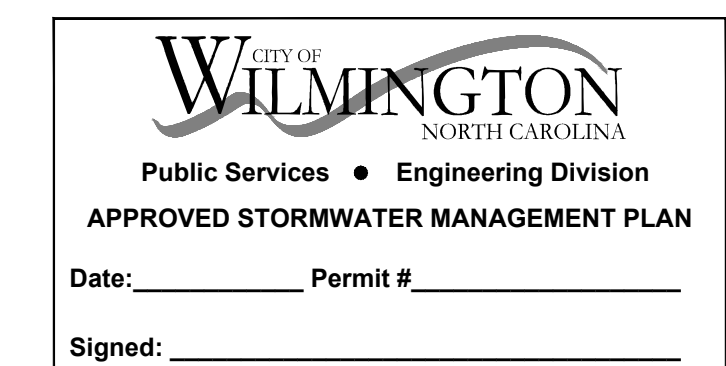
902 MARKET STREET
WILMINGTON, NC 28401
PHONE (910) 345-9653

License #C-3641

17145

DES. JPN
CHK. JPN
DRWN. EDB

DATE 06/28/18



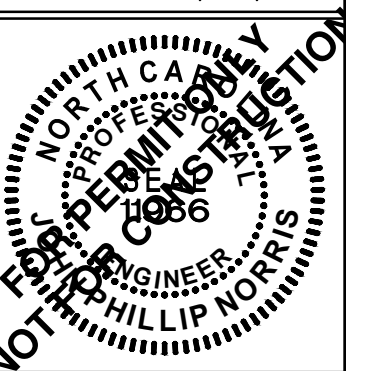
Approved Construction Plan

Name _____ Date _____

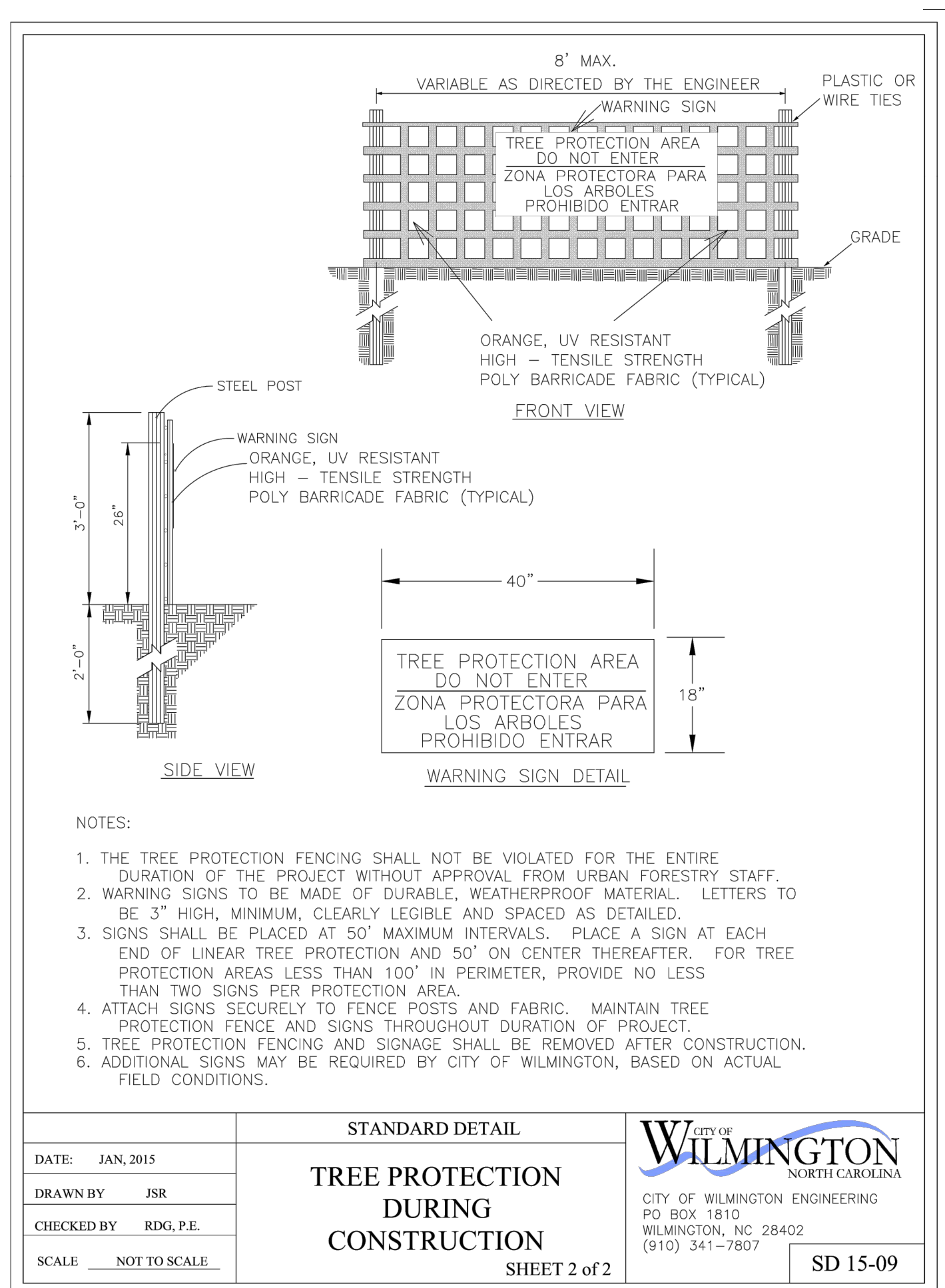
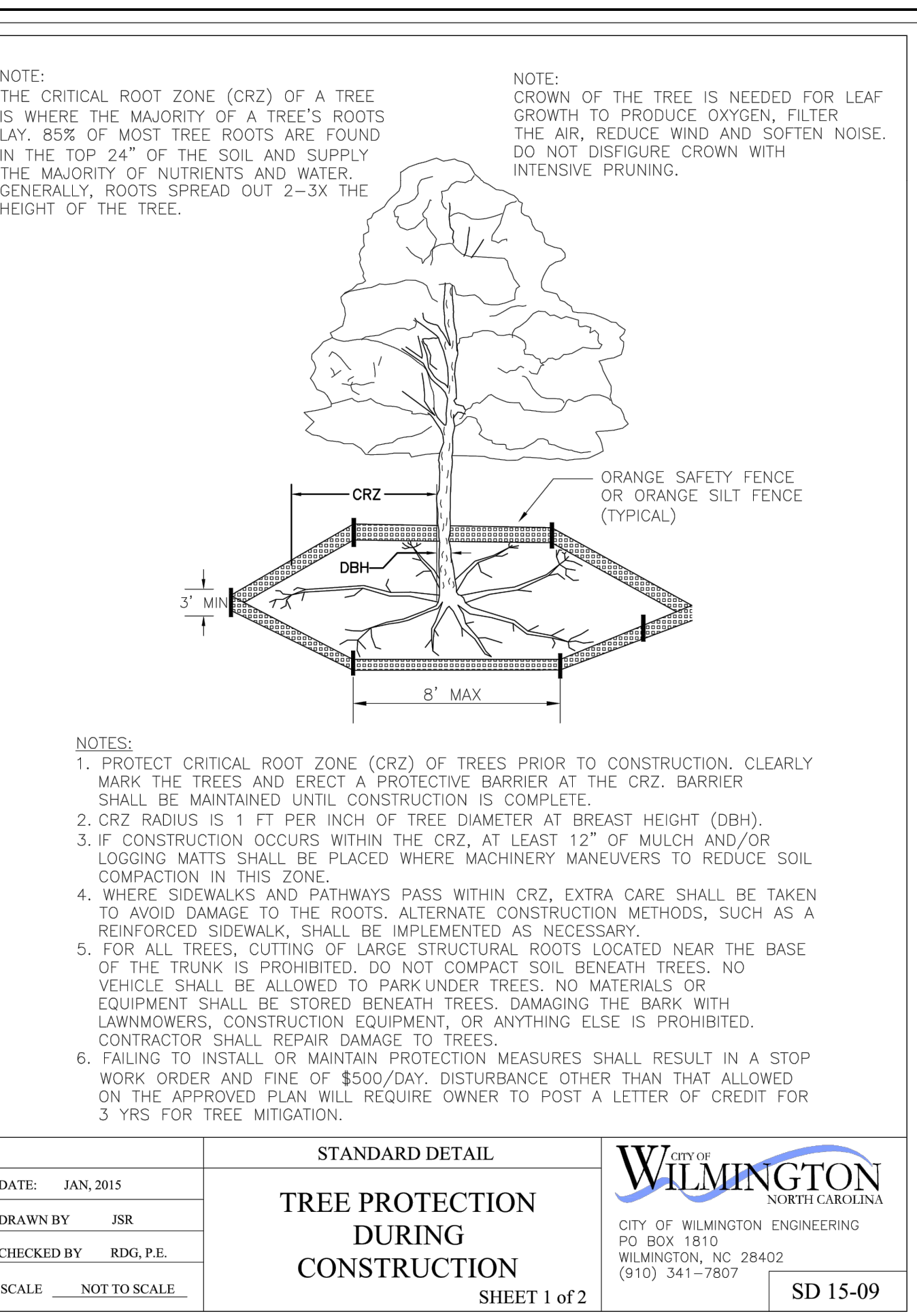
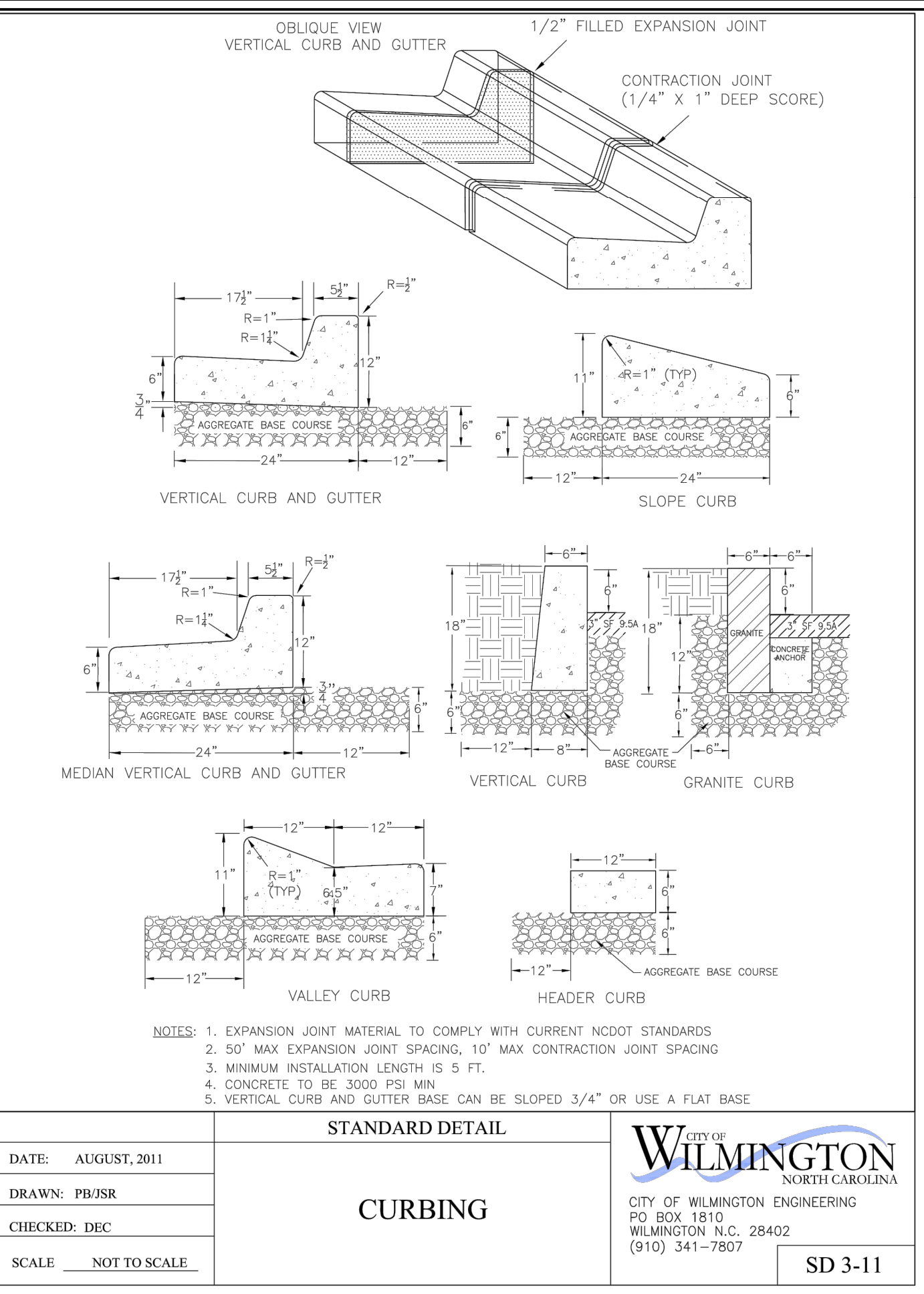
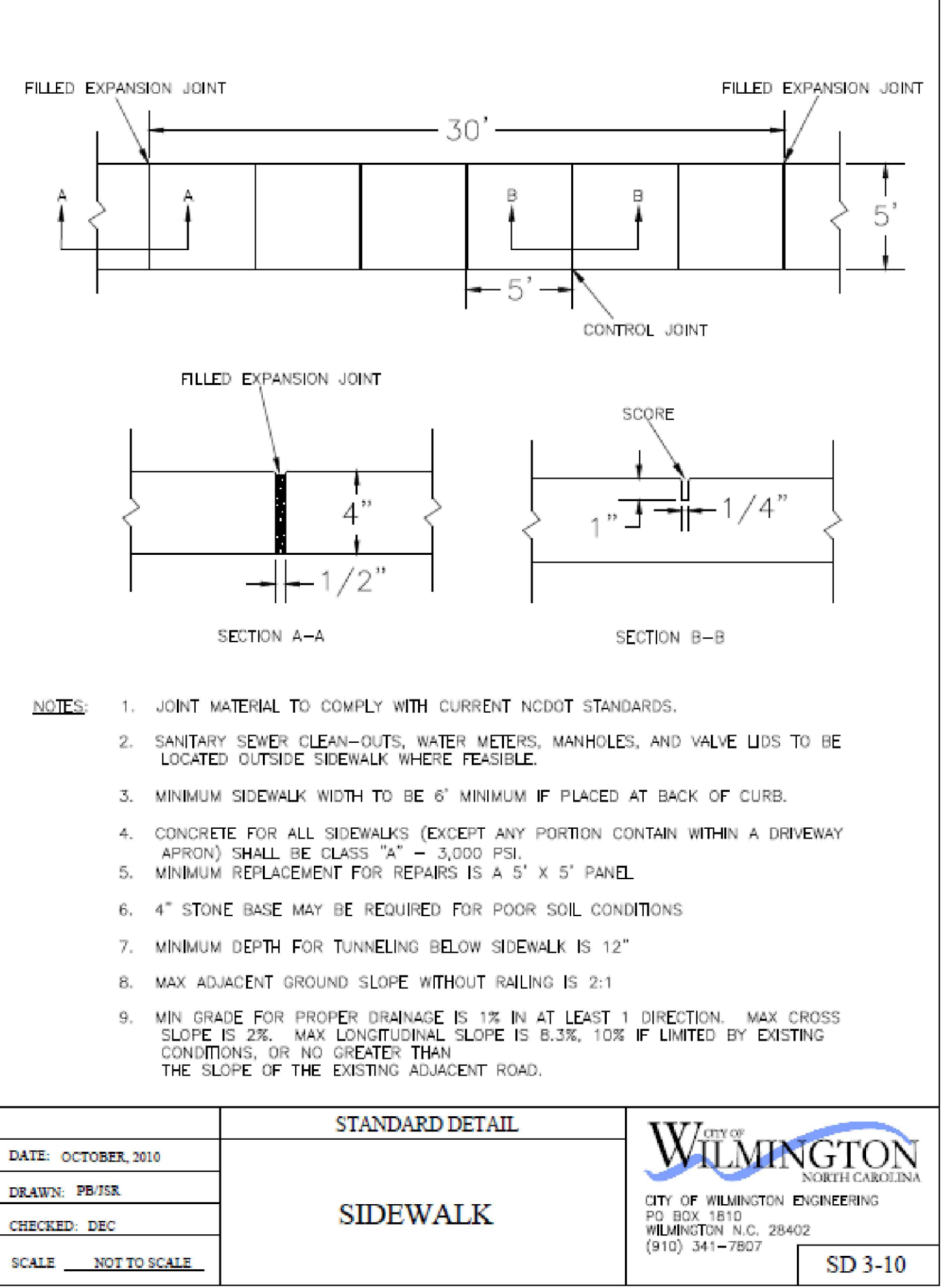
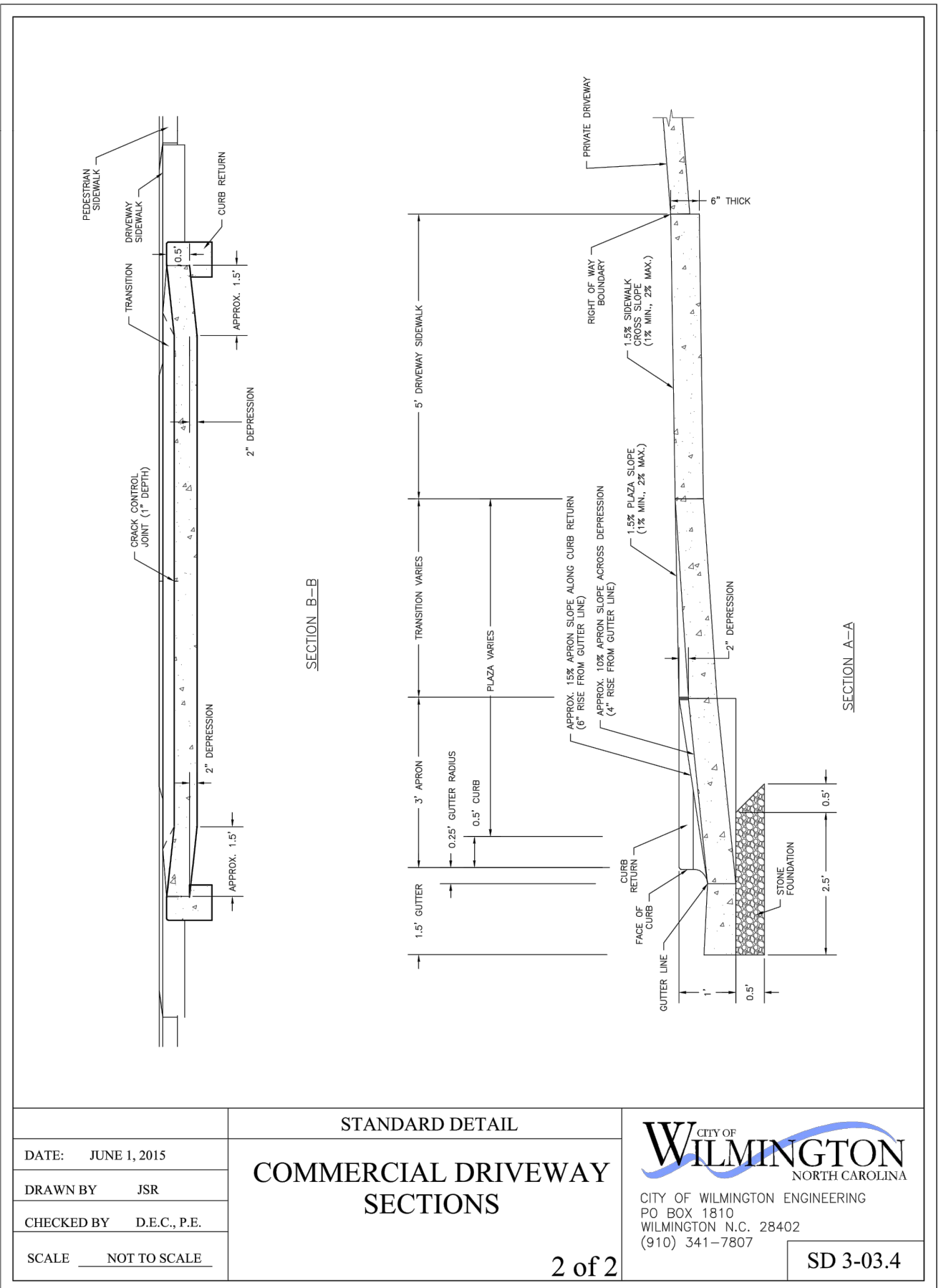
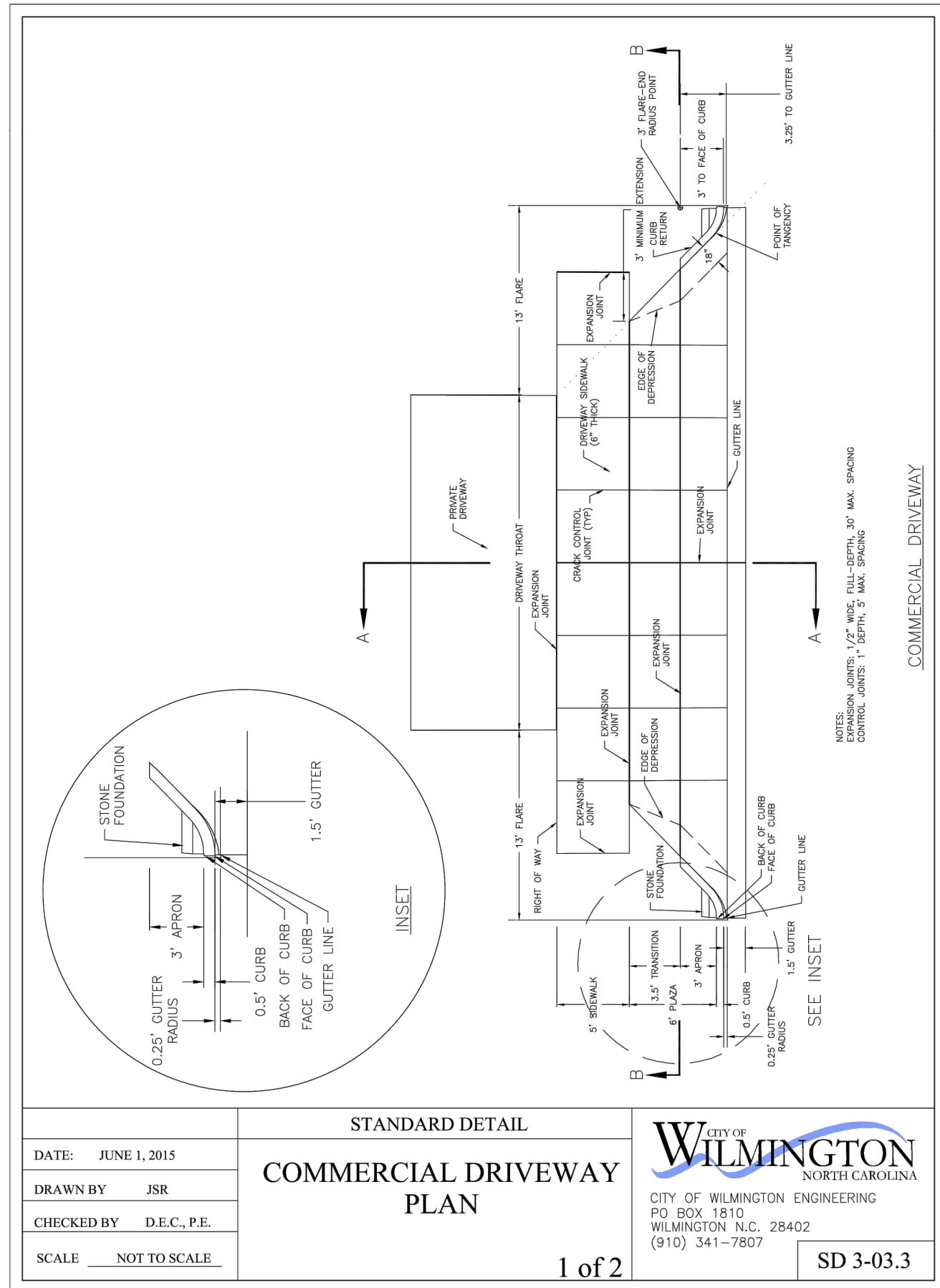
Planning _____

Traffic _____

Fire _____



C6



SYMBOL	DATE	DESCRIPTION
		REVISIONS

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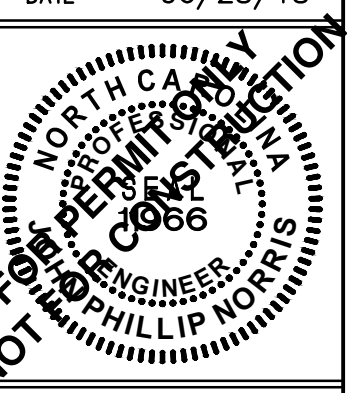
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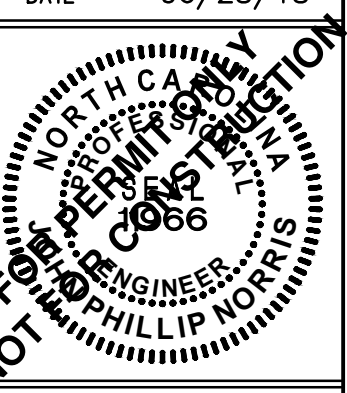


CITY OF WILMINGTON
NORTH CAROLINA
Public Services • Engineering Division
APPROVED STORMWATER MANAGEMENT PLAN
Date: _____ Permit # _____
Signed: _____

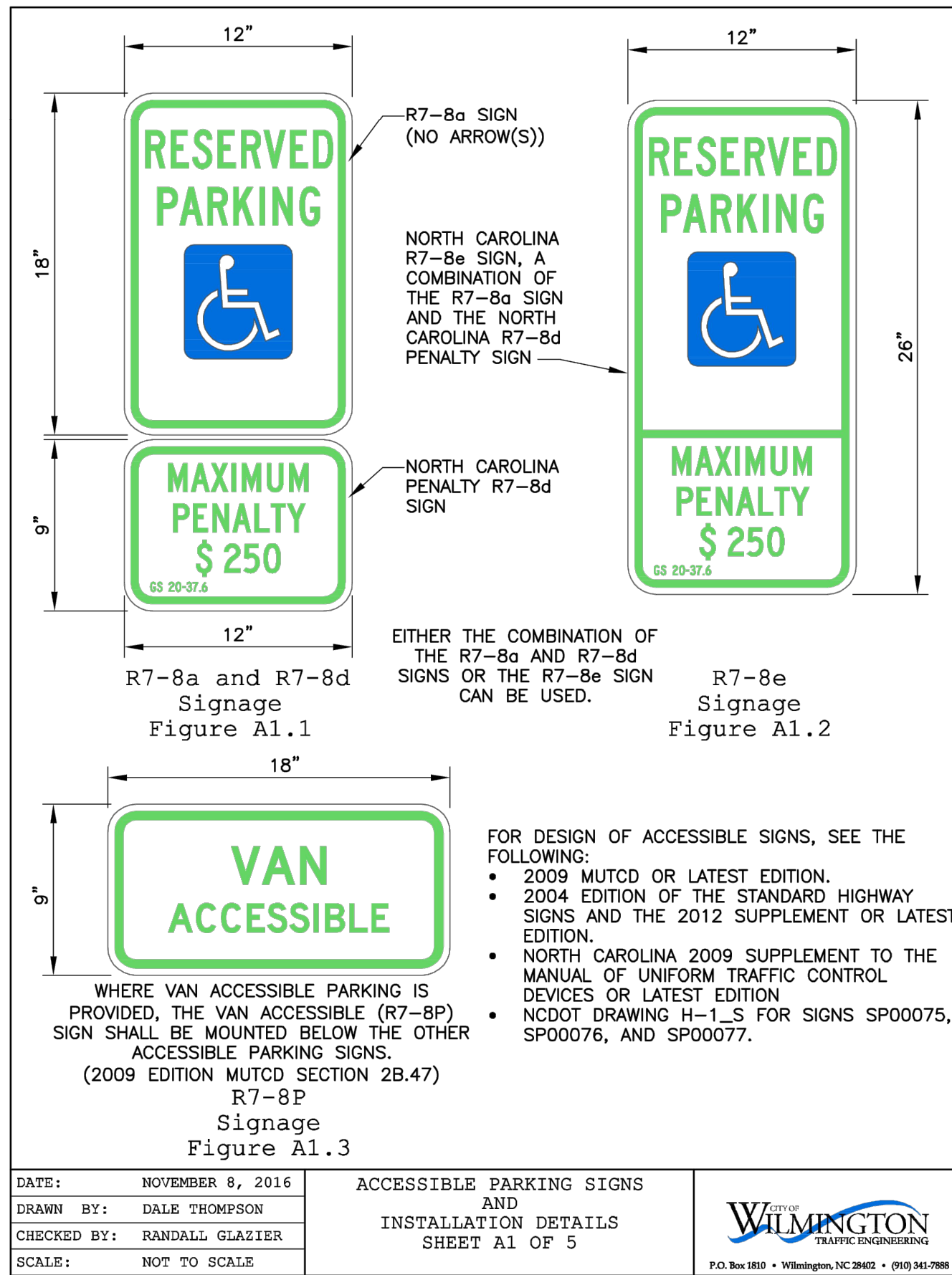
Approved Construction Plan

Name	Date
Planning	
Traffic	
Fire	

License #C-3641
17145
DES: JPN
CKD: JPN
DRWN: EDB
DATE: 06/28/18



C7



1. Variances on stall widths, angle and other dimensions will be allowed only upon approval of the Traffic Engineer.

2. Wheel stops shall be required three (3) feet from the end of parking stall when using eighteen (18) feet deep stalls.

3. Curbing, crossties, utility poles, etc., can be used as wheel stops. (Must be anchored down)

4. All medians shall be a minimum of six (6) feet wide.

5. Parking bays which terminate at a circulation way shall provide for a minimum turning radius of twenty-five (25) feet, as measured from the edge of the travel portion.

6. All parking stall markings and lane arrows shall be white.

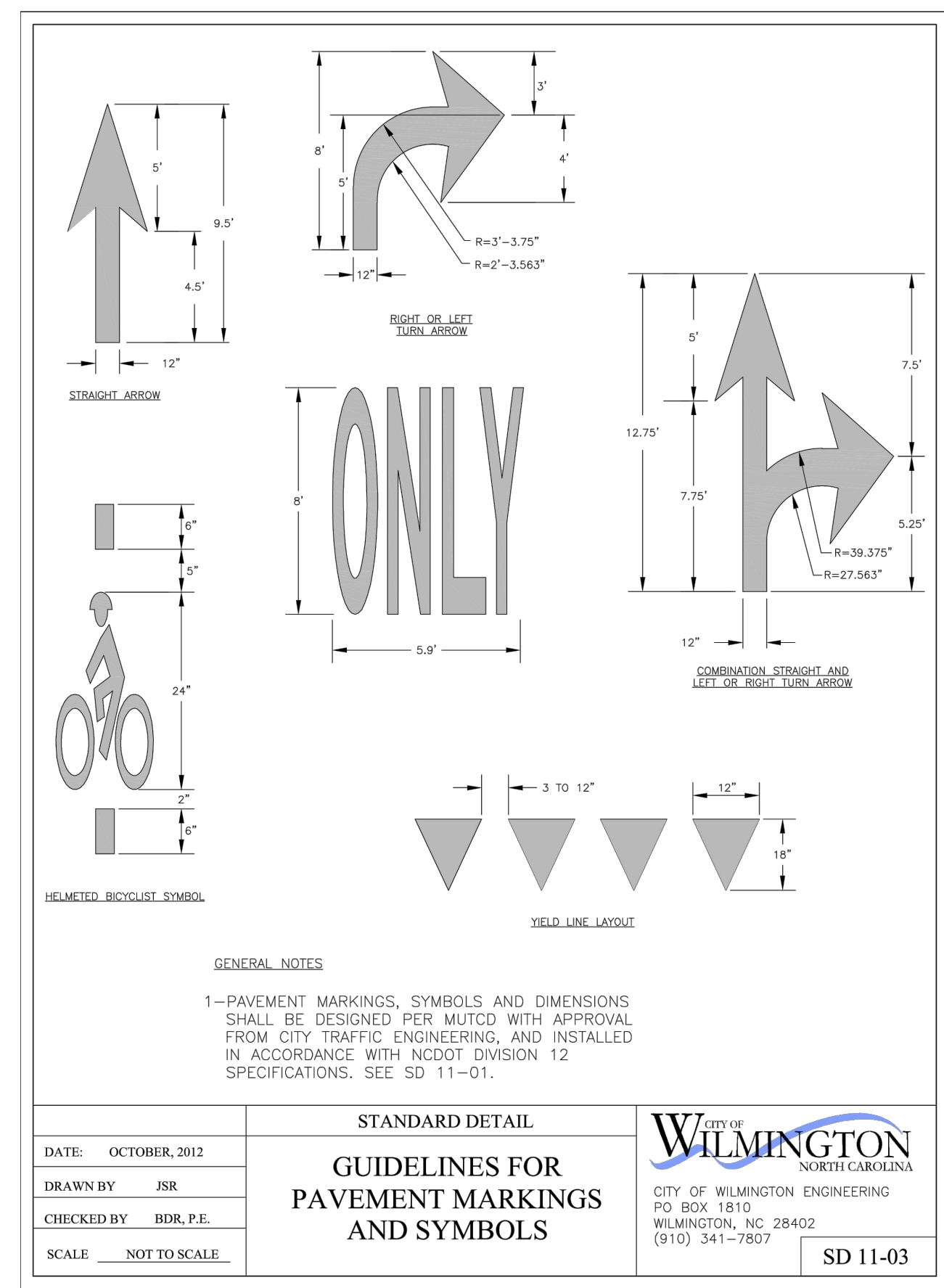
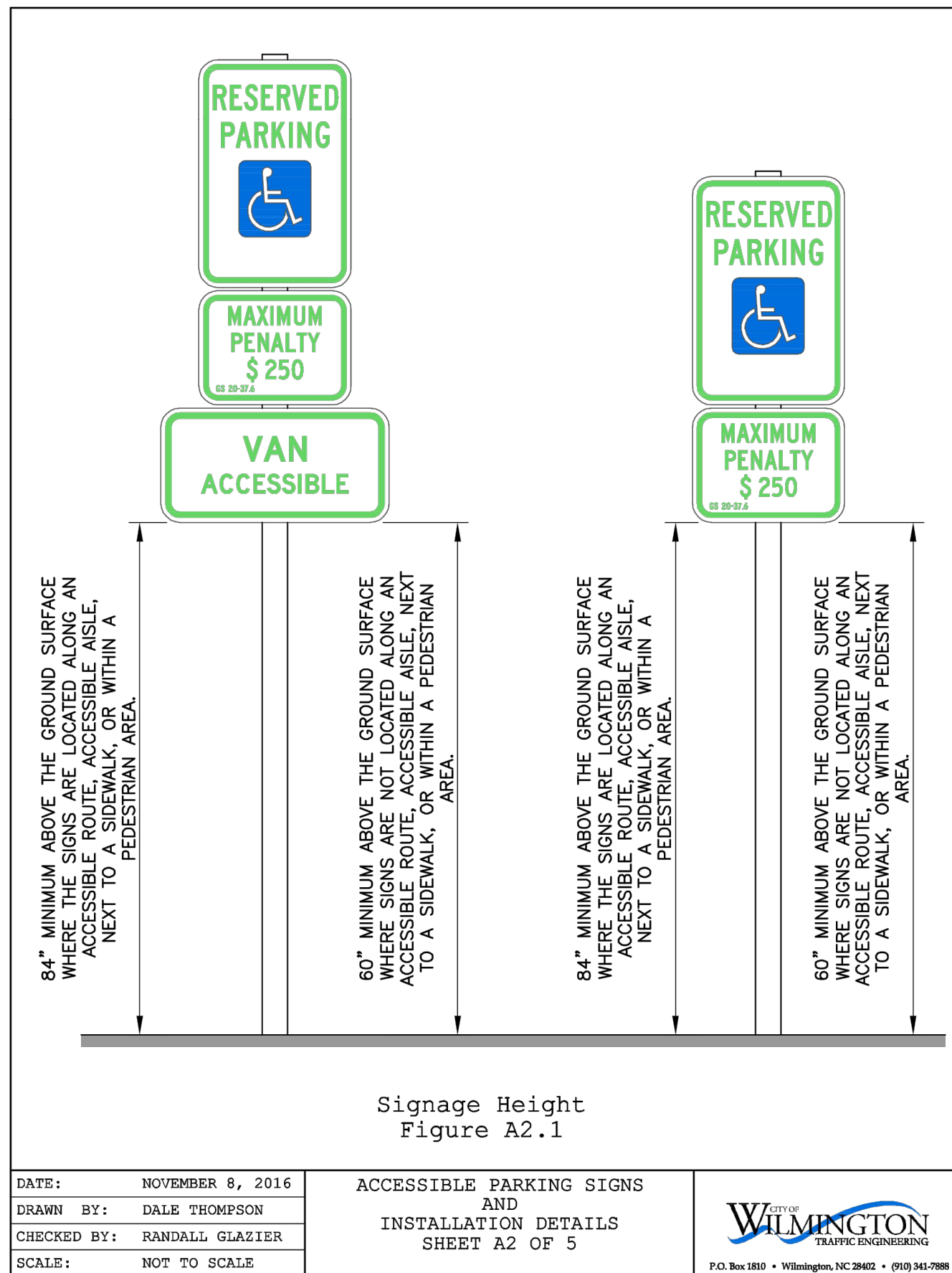
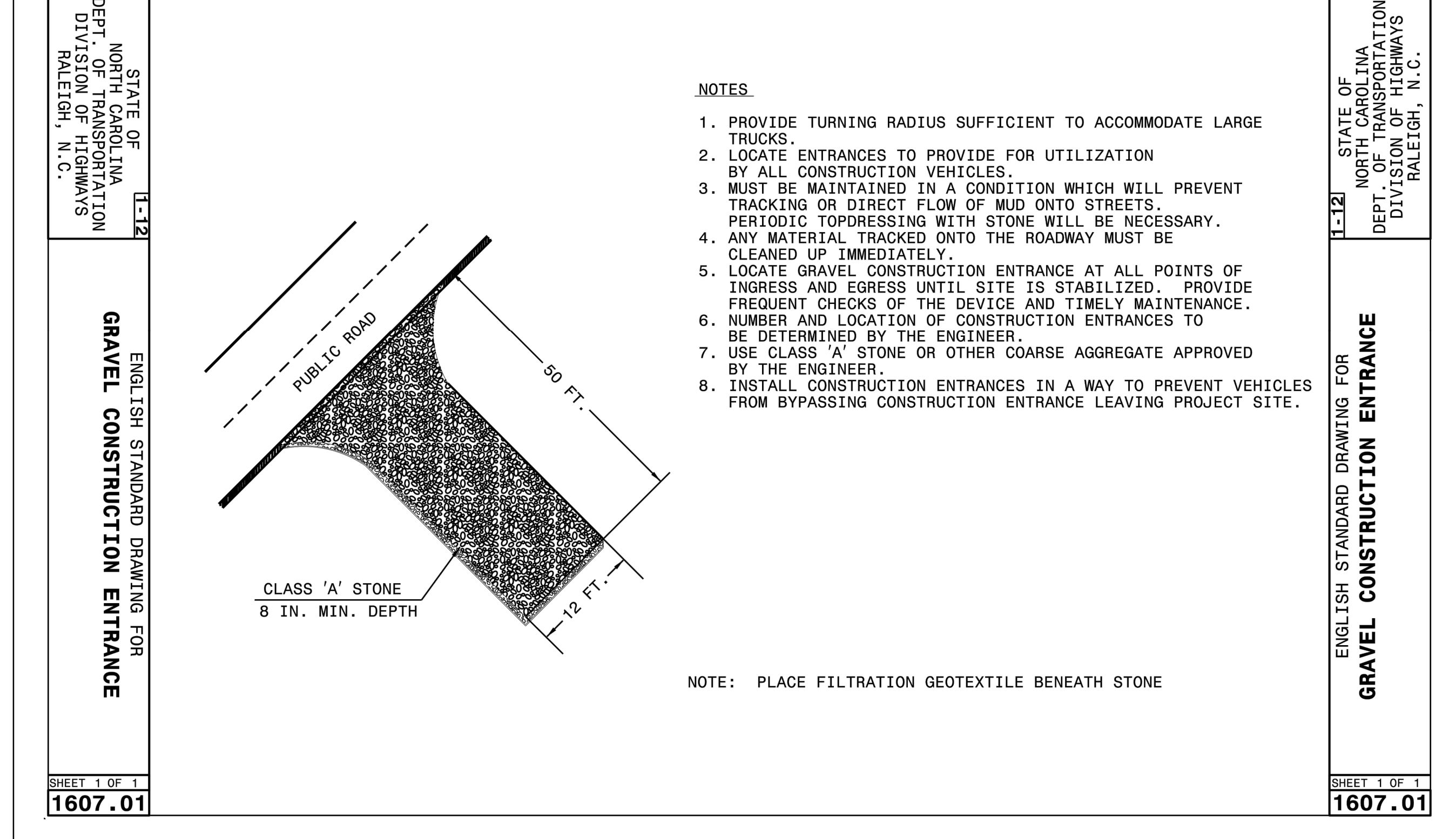
7. All other pavement markings, signs or other traffic control devices shall conform to the latest edition and/or interpretation of the Manual on Uniform Traffic Control Devices (MUTCD).

8. No obstructions will be allowed adjacent to a parking stall which would prevent safe ingress and egress from a parked vehicle.

9. Parking in fire lanes and in non-residential driveways shall be prevented by standard signs and as needed by portable barricades.

DATE:	2001	STANDARD DETAIL
DRAWN BY:	JSR/CMR	PARKING FACILITY
CHECKED BY:	B.P. P.E.	DESIGN NOTES
SCALE:	NOT TO SCALE	

CITY OF WILMINGTON
NORTH CAROLINA
CITY OF WILMINGTON ENGINEERING
PO BOX 1810
WILMINGTON, NC 28402
(910) 341-7807
SD 15-13



CITY OF WILMINGTON
NORTH CAROLINA
Public Services • Engineering Division
APPROVED STORMWATER MANAGEMENT PLAN

Date: _____ Permit # _____
Signed: _____

Approved Construction Plan

Name _____ Date _____

Planning _____
Traffic _____
Fire _____

OWNER:
PAR 5 DEVELOPMENT, LLC
2860-B NC HWY 5
ABERDEEN, NC 28315
(P) 910-944-0881
lee@hatsonscompanies.com

NORRIS & TUNSTALL
CONSULTING ENGINEERS P.C.

902 MARKET STREET
WILMINGTON, NC 28401
PHONE (910) 345-9653

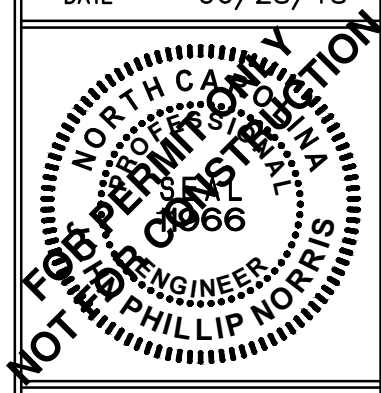
1429 ASH-LITTLE RIVER RD. NW
ASH, NC 28420
PHONE (910) 287-5900

License #C-3641

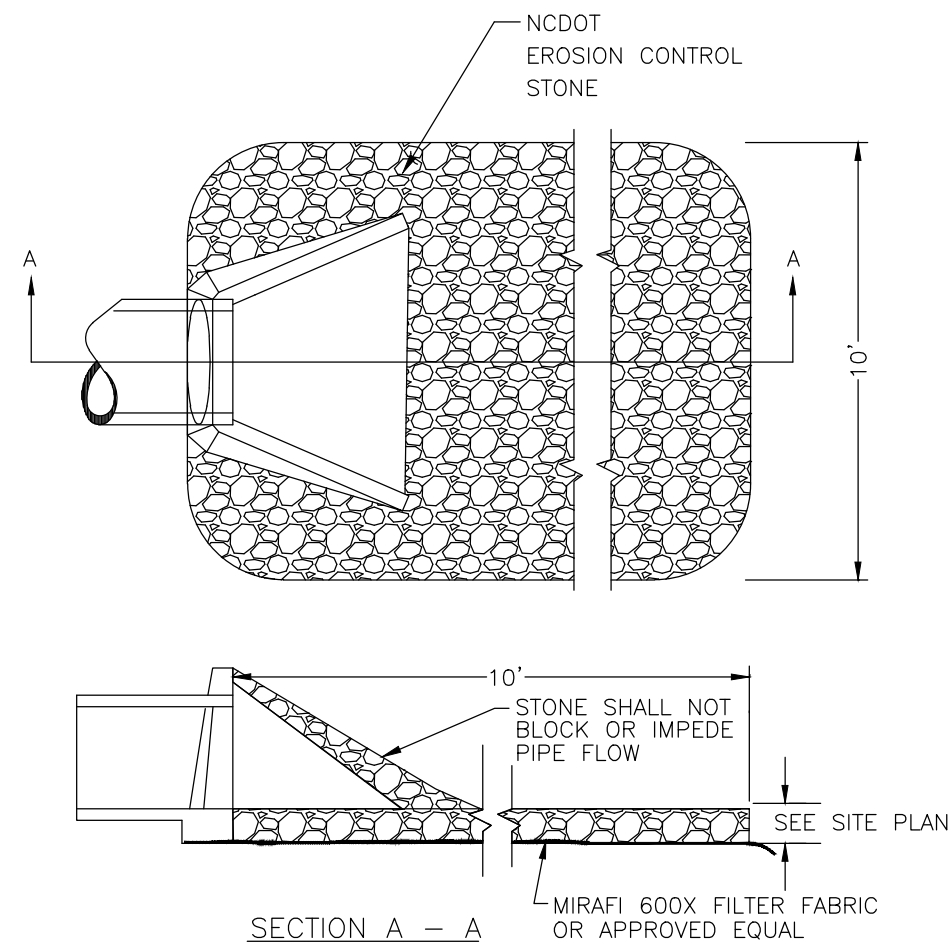
17145

DES. JPN
ORD. JPN
DRWN. EDB

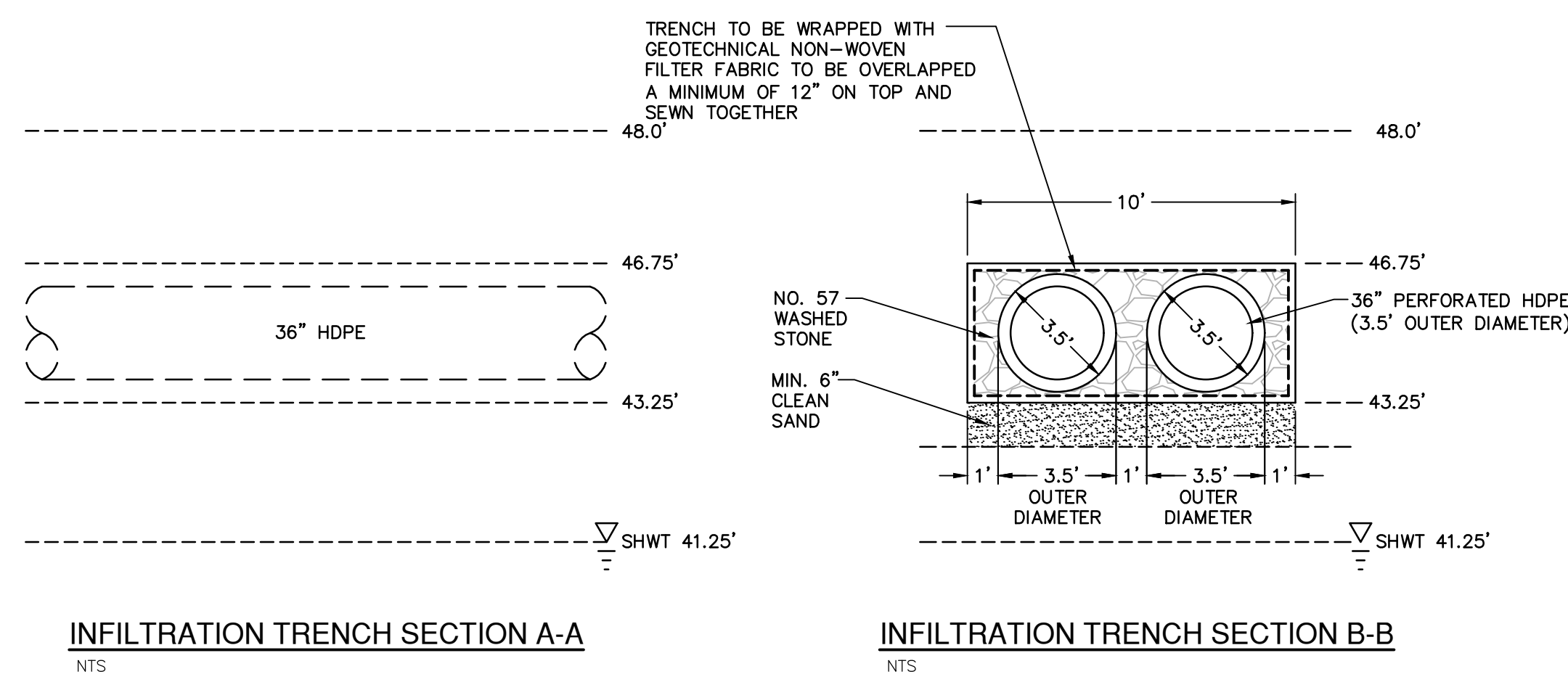
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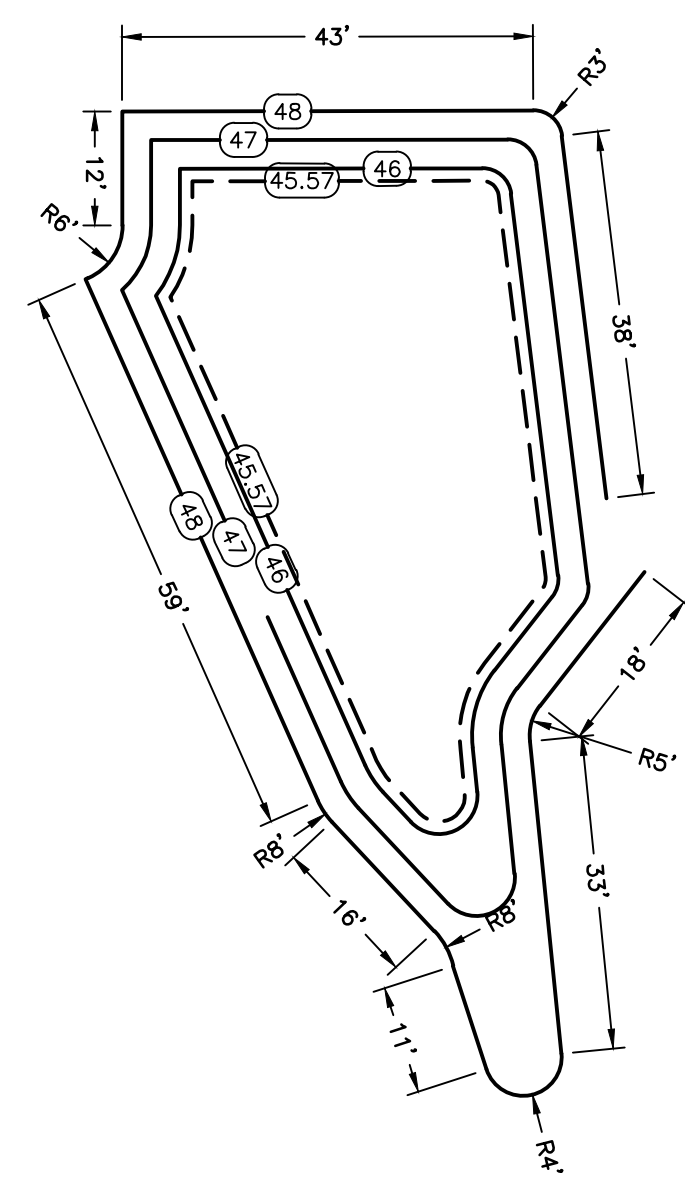


ENERGY DISSIPATOR
NTS

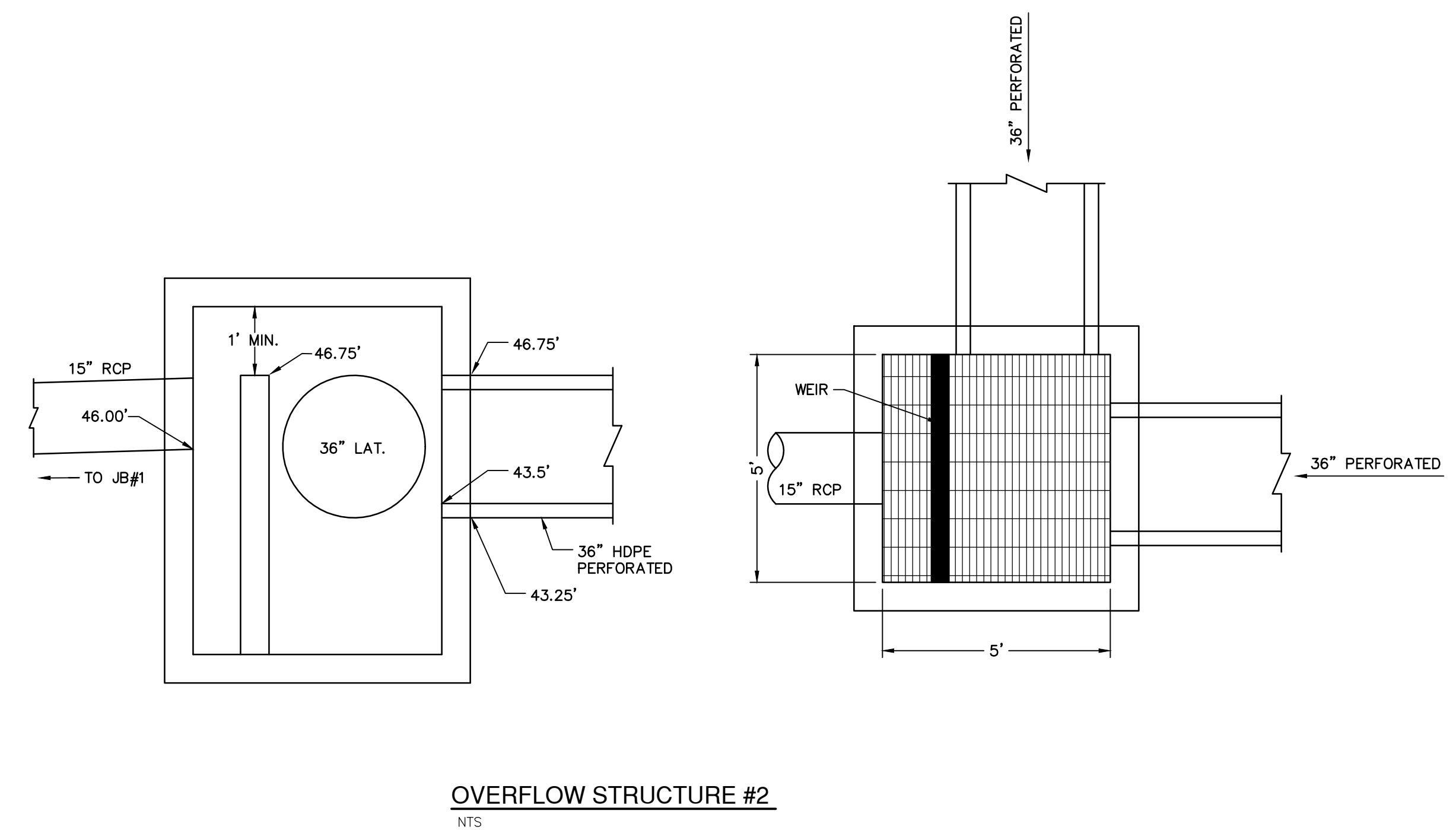
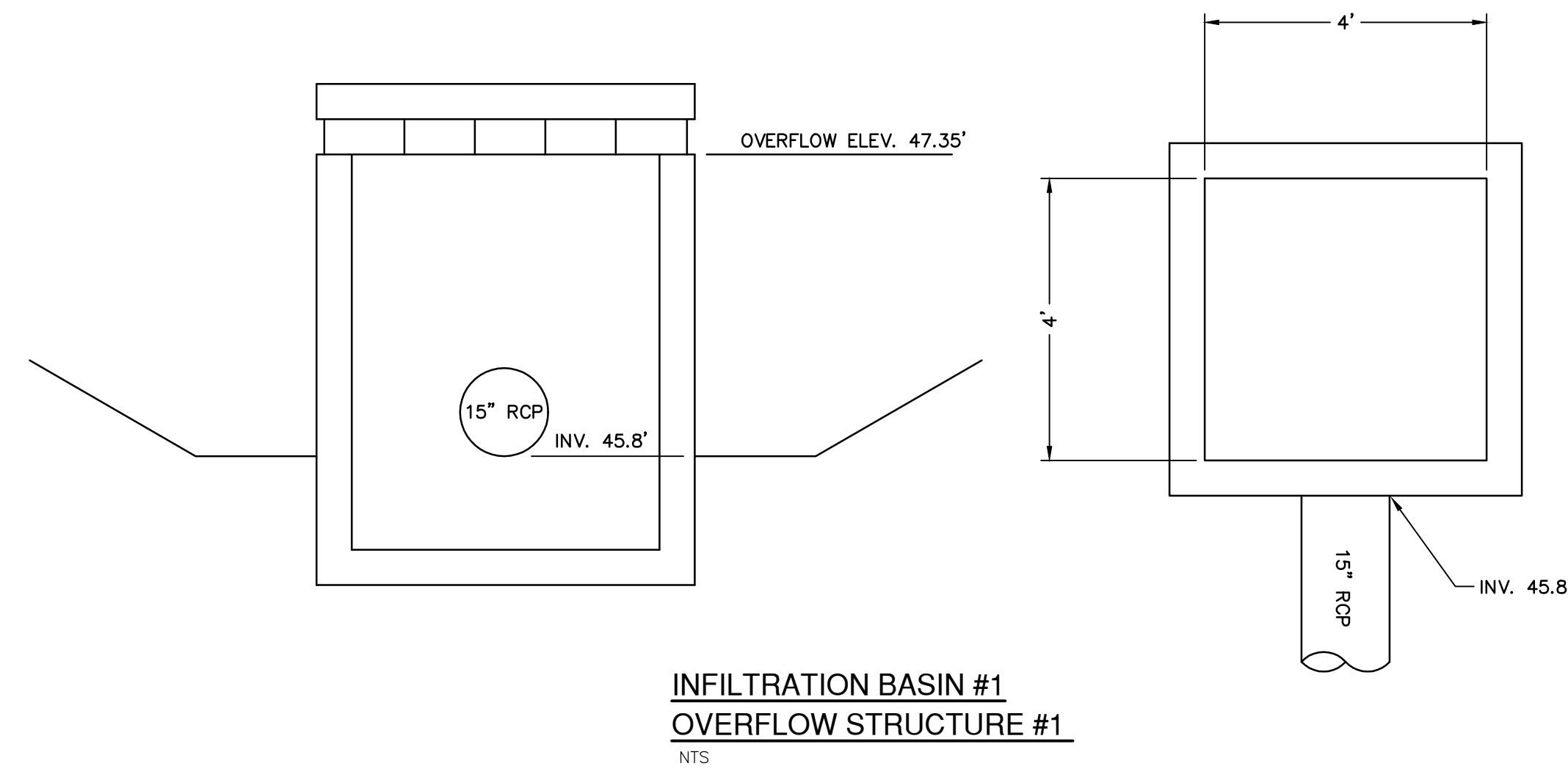
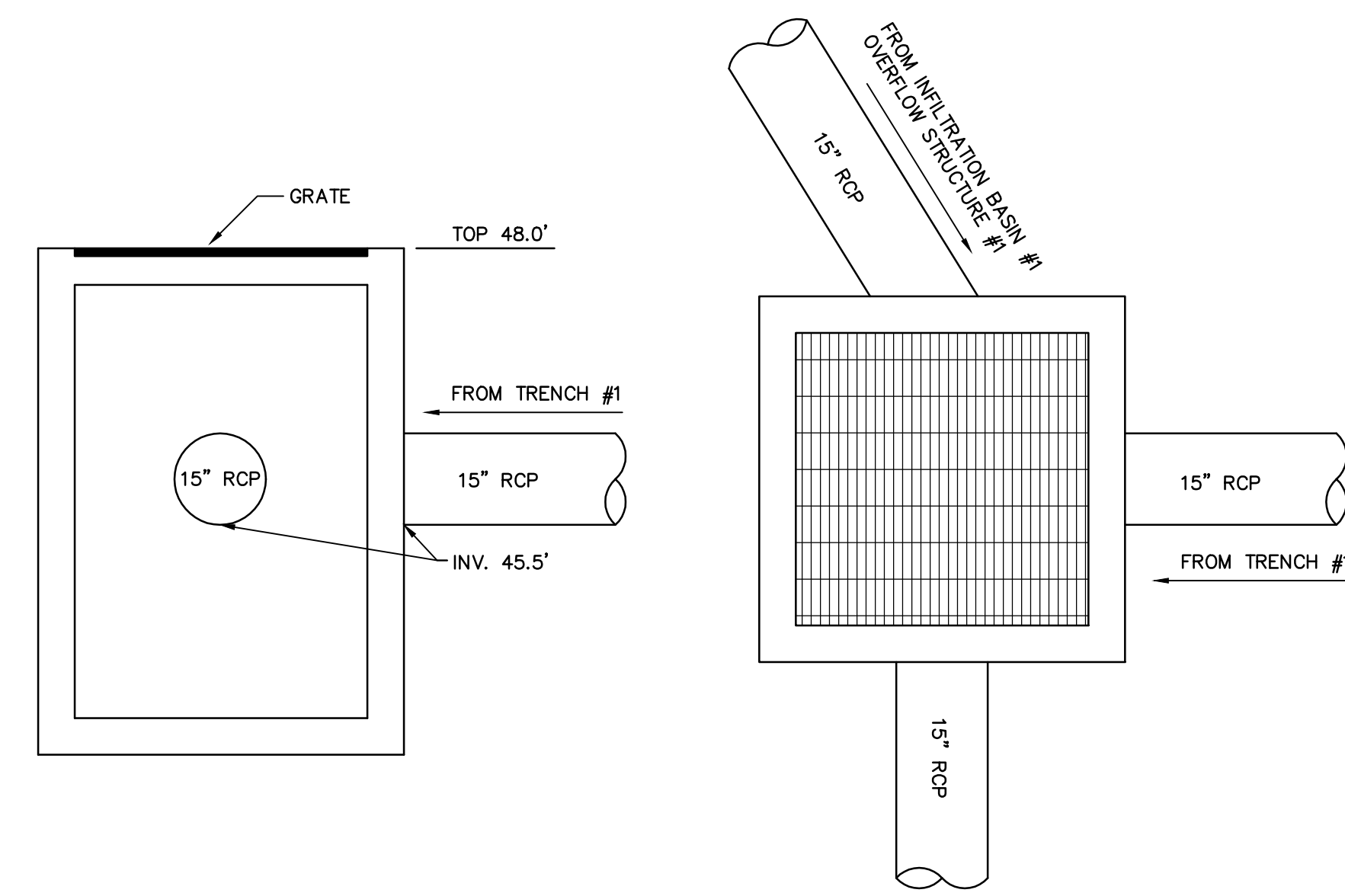
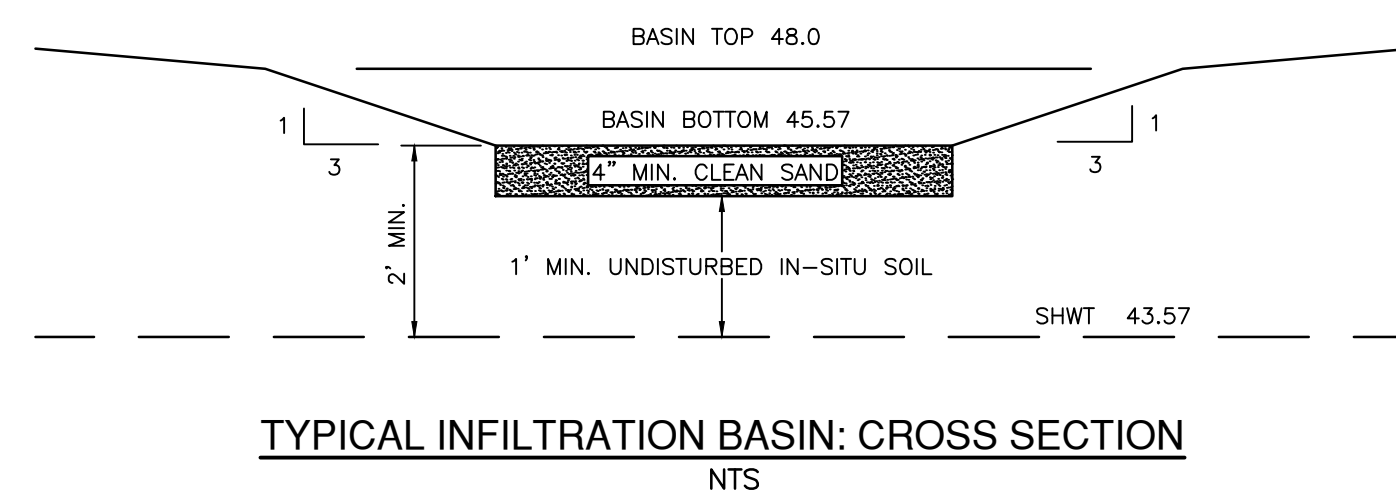


INFILTRATION BASIN #1

ELEV. SA: SHWT @ 46.57
48.0 3,385 SF i=10.3 in/hr
47.0 2,529 SF
46.0 1,878 SF
45.57 1,645 SF



NOTE:
ONCE THE SITE IS STABLE, ALL ACCUMULATED SEDIMENT SHALL BE REMOVED FROM THE INFILTRATION BASIN, AND THE BASIN SHALL BE RESTORED TO ITS DESIGN SPECIFICATIONS. BASIN SIDE SLOPES SHALL BE STABILIZED WITH SOD OR MATING AND FEED.



CITY OF WILMINGTON
NORTH CAROLINA
Public Services • Engineering Division
APPROVED STORMWATER MANAGEMENT PLAN
Date: _____ Permit # _____
Signed: _____

Approved Construction Plan
Name _____ Date _____
Planning _____
Traffic _____
Fire _____

SYMBOL	DATE	DESCRIPTION	BY
REVISIONS			

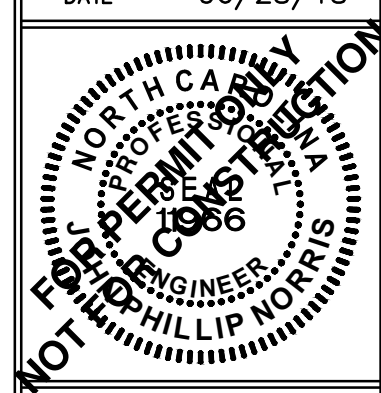
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DETAILS
DOLLAR GENERAL - PINE GROVE
810 PINE GROVE DRIVE
NEW HANOVER COUNTY, NORTH CAROLINA

OWNER:
PAR 5 DEVELOPMENT, LLC
2860-B NC HWY 5
ABERDEEN, NC 28315
(P) 910-944-0881
lee@rhetsoncompanies.com

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1429 ASH-LITTLE RIVER RD. NW
ASH, NC 28420
WILMINGTON, NC 28401
PHONE (910) 287-5900

License #C-3641
17145
DES. JPN
CHK. JPN
DRWN. EDB
DATE 06/28/18



C9