

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 REMOVE 9" LIVE OAK 8" & 9" DOUBLE OAK SAVE 10" WATER OAK SAVE 10" WATER OAK REMOVE 11" BAY SAVE 11" HICKORY SAVE 12" HICKORY 12" WATER OAK SAVE 12" WATER OAK SAVE 15" PINE REMOVE 16" LIVE OAK REMOVE 16" WATER OAK REMOVE REMOVE 17" SWEET GUM 18" MAPLE SAVE REMOVE 21" HICKORY 22" PINE REMOVE 24" LIVE OAK REMOVE 26" DEODAR CEDAR REMOVE 26" PINE (LONGLEAF) SAVE 26" PINE (LONGLEAF) SAVE 26" PINE (LONGLEAF) SAVE 30" PINE (LONGLEAF) SAVE

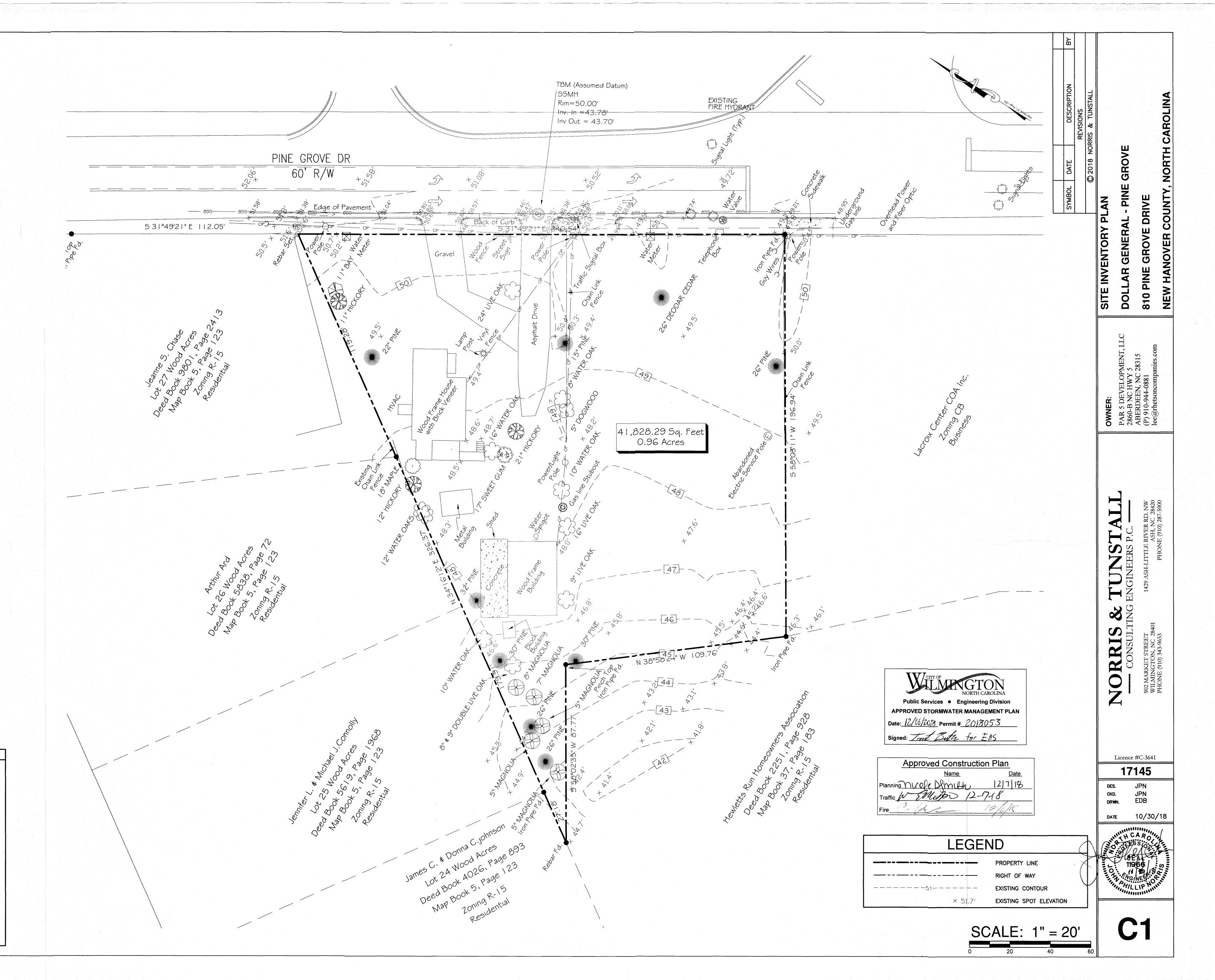
SITE INVENTORY DATA PLAN PREPARER: NORRIS & TUNSTALL CONSULTING ENGINEERS. J. PHILLIP NORRIS, P.E. APPLICANT NAME: SITE ADDRESS: DEVELOPER: PARCEL #: ADJACENT PROPERTY OWNER: SEE SITE PLAN VICINITY MAP: 100 YR FLOOD ELEVATION: LOCATION OF WATER FEATURES: N/A SOILS TYPE: CAMA CLASSIFICATION: CONSERVATION RESOURCES: RECOGNIZED SITE: CEMETERIES: WETLANDS: N/A PROTECTED SPECIES: N/A SEE PLAN TRANSPORTATION DATA:

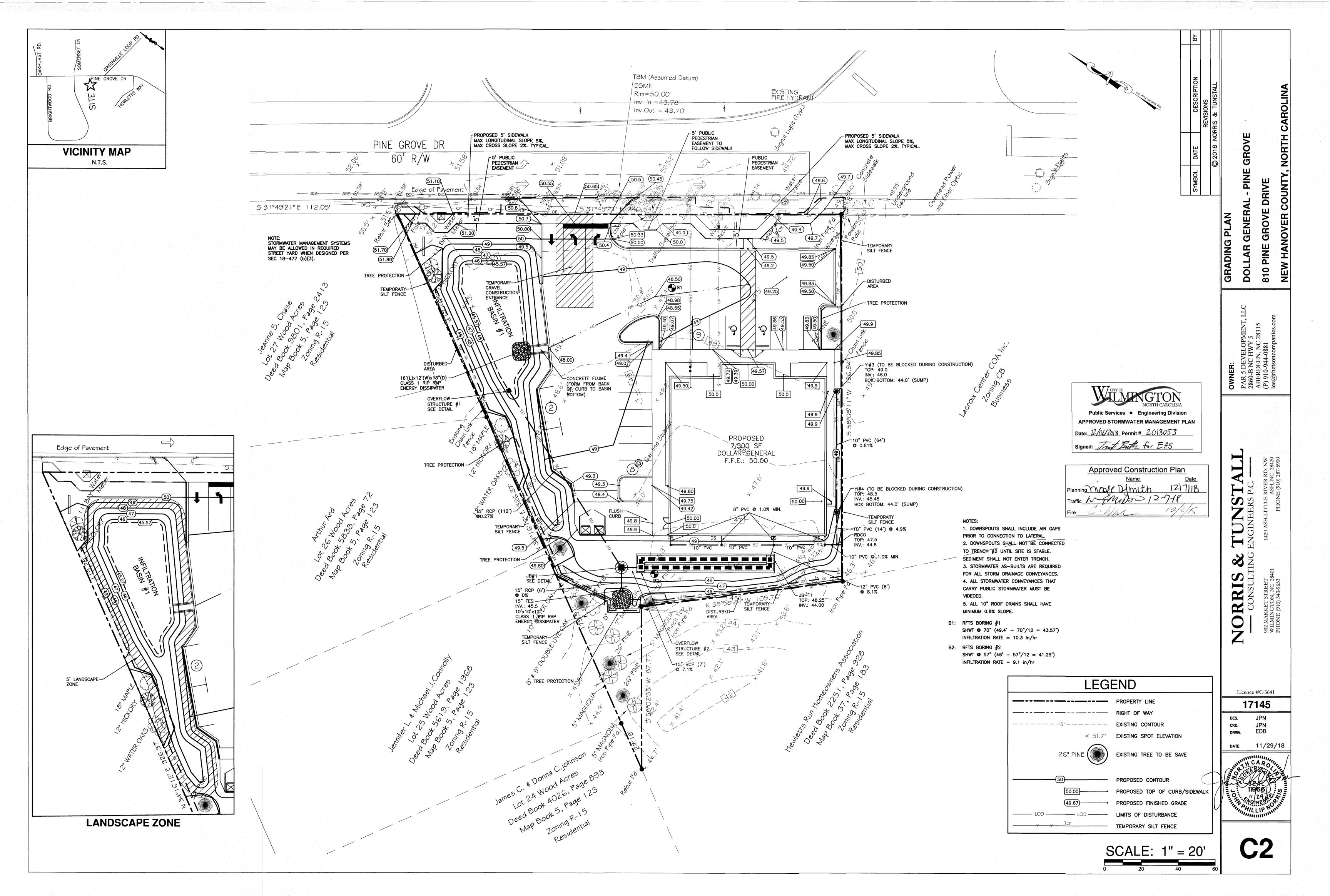
30" PINE (LONGLEAF)

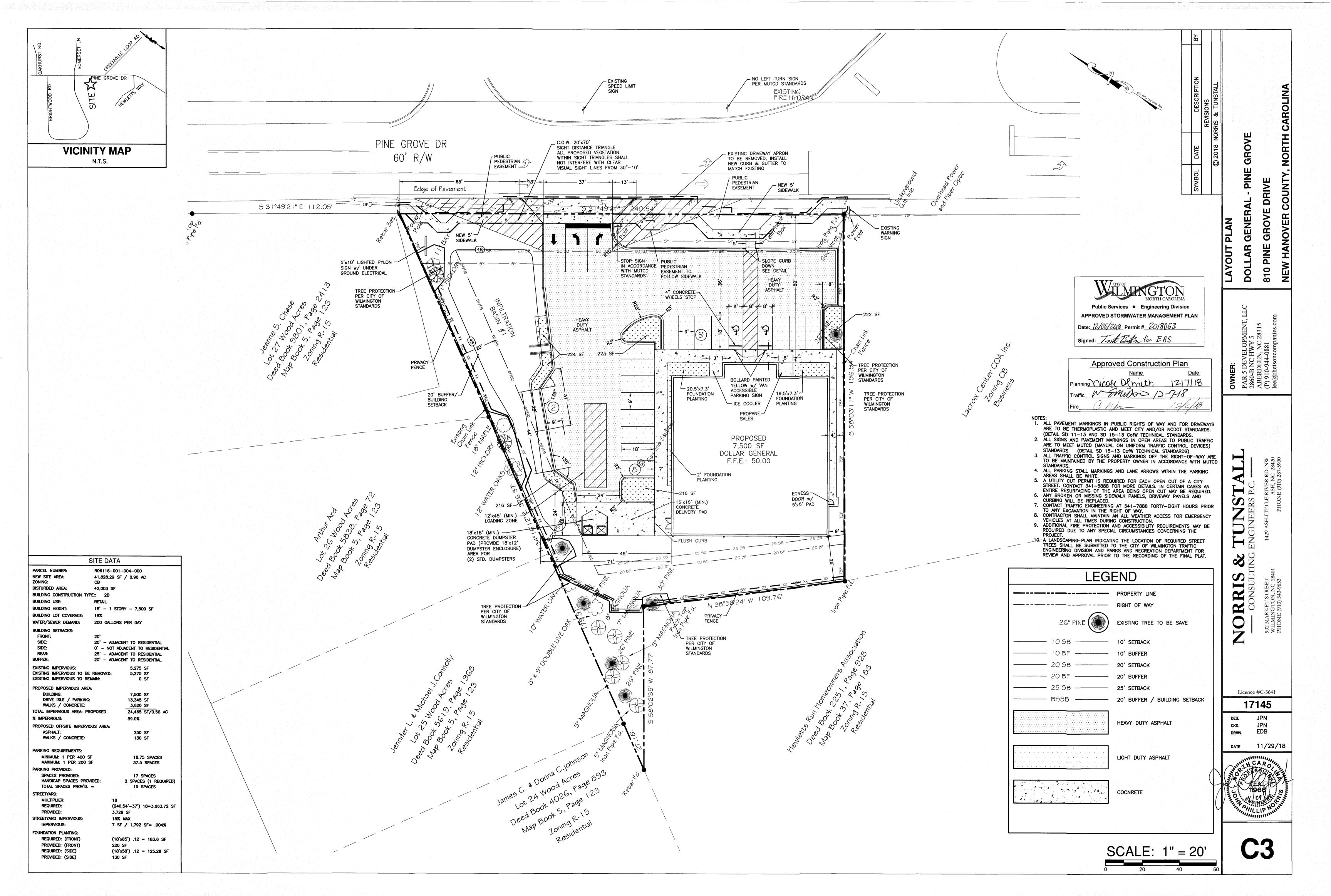
32" PINE (LONGLEAF)

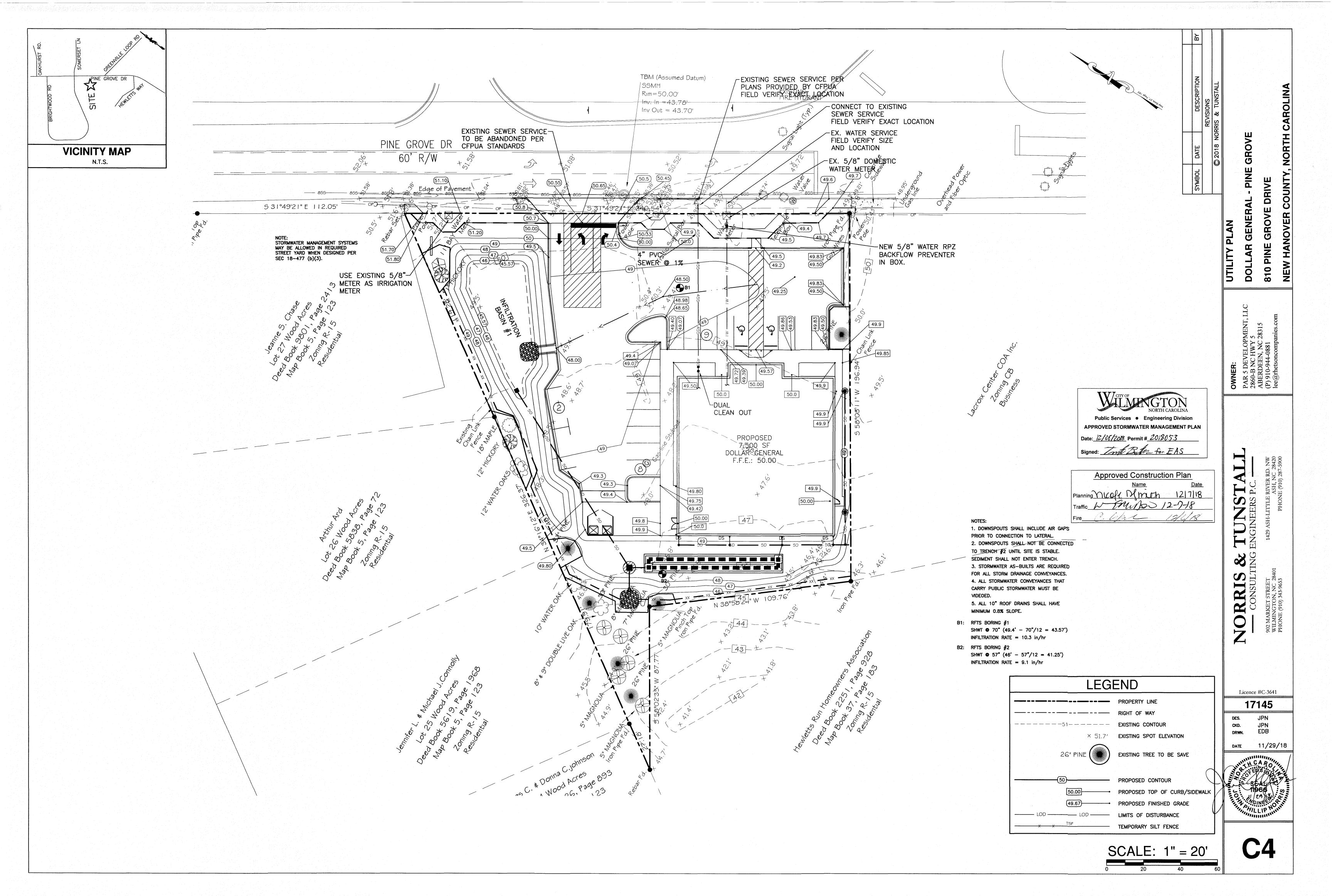
SAVE

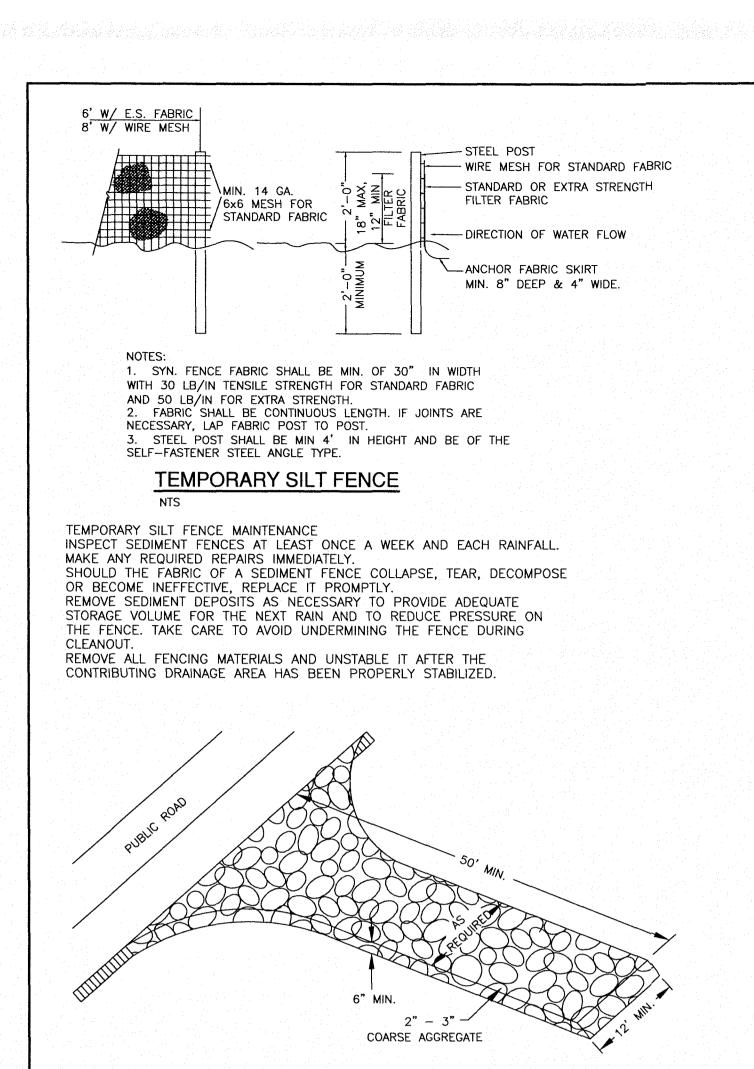
SAVE











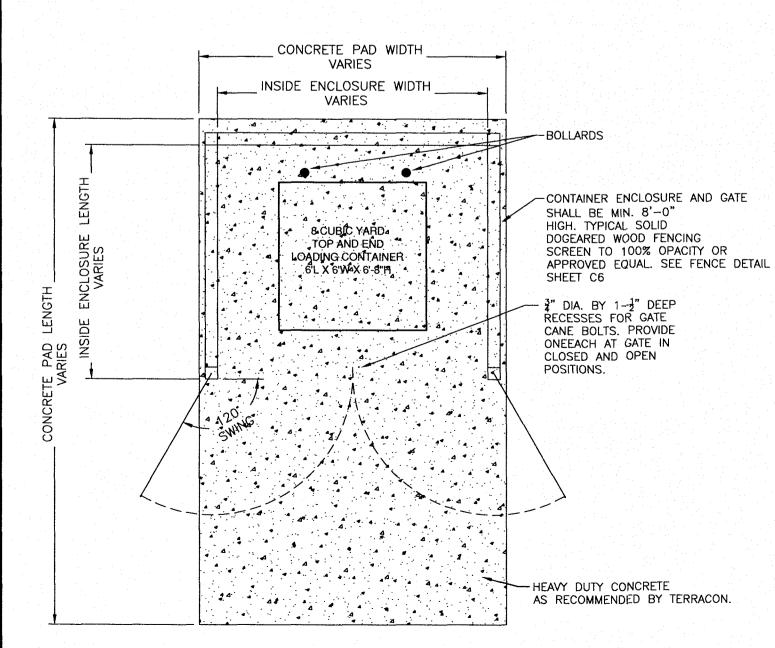
TEMPORARY GRAVELLED CONSTRUCTION ENTRANCE

GRAVEL CONSTRUCTION ENTRANCE

CLEAR THE ENTRANCE AND EXIT AREA OF ALL VEGETATION, ROOTS, AND OTHER OBJECTIONABLE MATERIAL AND PROPERLY GRADE IT. PLACE THE GRAVEL TO THE SPECIFIC GRADE AND DIMENSIONS SHOWN ON THE PLANS, AND SMOOTH

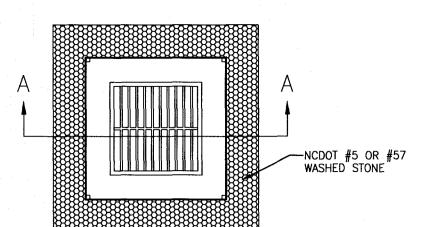
3. PROVIDE DRAINAGE TO CARRY WATER TO A SEDIMENT TRAP OR OTHER SUITABLE OUTLET. 4. USE GEOTEXTILE FABRICS BECAUSE THEY IMPROVE STABILITY OF THE FOUNDATION IN LOCATIONS SUBJECT TO SEEPAGE OR HIGH WATER TABLE.

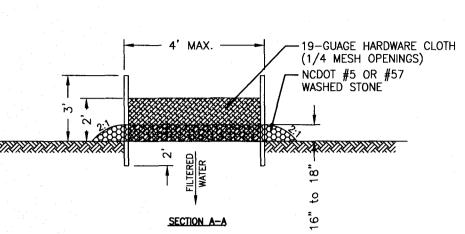
MAINTENANCE: MAINTAIN THE GRAVEL PAD IS A CONDITION TO PREVENT MUD OR SEDIMENT FROM LEAVING THE CONSTRUCTION SITE. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH 2 INCH STONE. AFTER EACH RAINFALL, INSPECT ANY STRUCTURE USED TO TRAP SEDIMENT AND CLEAN IT OUT AS NECESSARY. IMMEDIATELY REMOVE ALL OBJECTIONABLE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



TYPICAL CONTAINER ENCLOSURE PLAN

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

CONTRACTION JUINIS (C.J.) SPACE SAWIL AS THICKEN SIDEWALK TO 6" AT DRIVEWAYS.
THICKEN SIDEWALK TO 6" IN LAST 3' WHERE IT ABUTS PAVEMENT WITH NO CURB.

1/2" EXPANSION JOINT (E.J.) REQUIRED AT 30' MAX. AT SIDEWALK JUNCTIONS, AT STRUCTURES, AND AS NOTED ON SITE PLAN.

3. PROVIDE A LAYER OF 15# BLDG. FELT BETWEEN WALK AND ADJACENT PARALLELING CURB OR STRUCTURE.

7. REINFORCE w/6x6-10/10 W.W.M.

30' MAX. SPACING

<u>PLAN</u>

CURB END DETAIL

PLAN VIEW

FRONT VIEW

WHEEL STOP DETAIL

END VIEW

REINFORCING:

CONCRETE:

4 - #4 REBAR

9" x 7'-0" x 4"

4000 PSI @ 28 DAYS

<u>WIDTH x LENGTH</u>

-CONCRETE CURB & GUTTER

← 12" -

SIDEWALK JOINT DETAILS

CONSTRUCTION SEQUENCE: 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

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 GROUNDCOVER.

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.

CONCRETE

SIDEWALK

LANDSCAPE AREA

OR PERMANENTLY

INSTALLED

1:12 MAX.

PEDESTRIANS DO NOT CROSS THE

CURB CUT, THEN SIDE FLARES ARE NOT REQUIRED AND CURB ON BOTH

SIDES MAY RETURN FOR FULL DEPTH

ASPHALT

OF THE CURB CUT.

LANDSCAPE AREA

OR PERMANENTLY

ELEMENT.

* SEE NOTES ON DETECTABLE WARNING

SIDEWALK, CURB CUT AND WHEEL CHAIR RAMP DETAIL

--- 4" CONC. SIDEWALK w/6x6-10/10 W.W.M.

TURN DOWN SIDEWALK

-x x x x

—1/8"R TOOLED

1/8"R TOOLED JOINT

1/2" EXPANSION

JOINT MATERIAL -

EXPANSION JOINT (E.J.)

CONTRACTION JOINT (C.J.)

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 24% BERMUDA GRASS

20% TURF FESCUE 10% CREEPING RED FESCUE 24% ANNUAL RYE GRAIN *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%.

	OF GRADING. FOR ADDITION DENUDED AR	CONSULT CONSUL	BE SEEDED WITHIN 7 TO 14 DAYS OF THE COMPLETION SERVATION ENGINEER OR SOIL CONSERVATION SERVICE N CONCERNING OTHER ALTERNATIVES FOR VEGETATION OF VEGETATION RATES ARE THOSE WHICH DO WELL 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 (HQW) 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		
	SEEDING MIXTURE		
	SPECIES 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 Ib/acre GROUND AGRICULTURAL		

IFOLLOW SOIL TEST OR APPLY 2,000 Ib/acre GROUND AGRICULTURAL _IMESTONE AND 1,000 lb/acre 10-10-10 FERTILIZER. 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. REPAIR AND REFERTILIZE DAMAGE AREAS IMMEDIATELY. TOP DRESS WITH

50 lb/acre OF NITROGEN IN MARCH, IF IT IS NECESSARY TO EXTENT TEMPORARY COVER BEYOND JUNE 15, OVERSEED WITH 50 lb/acre KOBE (PIEDMONT AND COASTAL PLAIN) OR KOREAN (MOUNTAINS) LESPEDEZA IN ATE FEBRUARY OR EARLY MARCH.

TEMPORARY SEEDING RECOMMENDATIONS FOR LATE WINTER AND EARLY SPRING SEEDING MIXTURE RATE (lb/acre)

SPECIES RYE (GRAIN)

ANNUAL LESPEDEZA (KOBE IN PIEDMONT AND COASTAL PLAIN, KOREAN N MOUNTAINS)

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 JAN. 1 — MAY 1 DEC. 1 — APRIL 15 PIEDMONT COASTAL PLAIN -

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

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.

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

1. THE CONTRACTOR SHALL VISIT THE SITE TO BECOME FAMILIAR WITH FIELD CONSTRUCTION CONDITIONS. . 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, 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 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 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. 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 ALKYD, 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.

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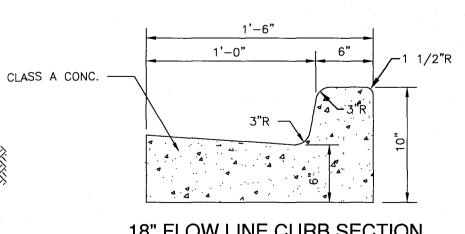
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Licence #C-3641

17145 JPN DES. CKD. JPN EDB DRWN.

11/29/18 DATE



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

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

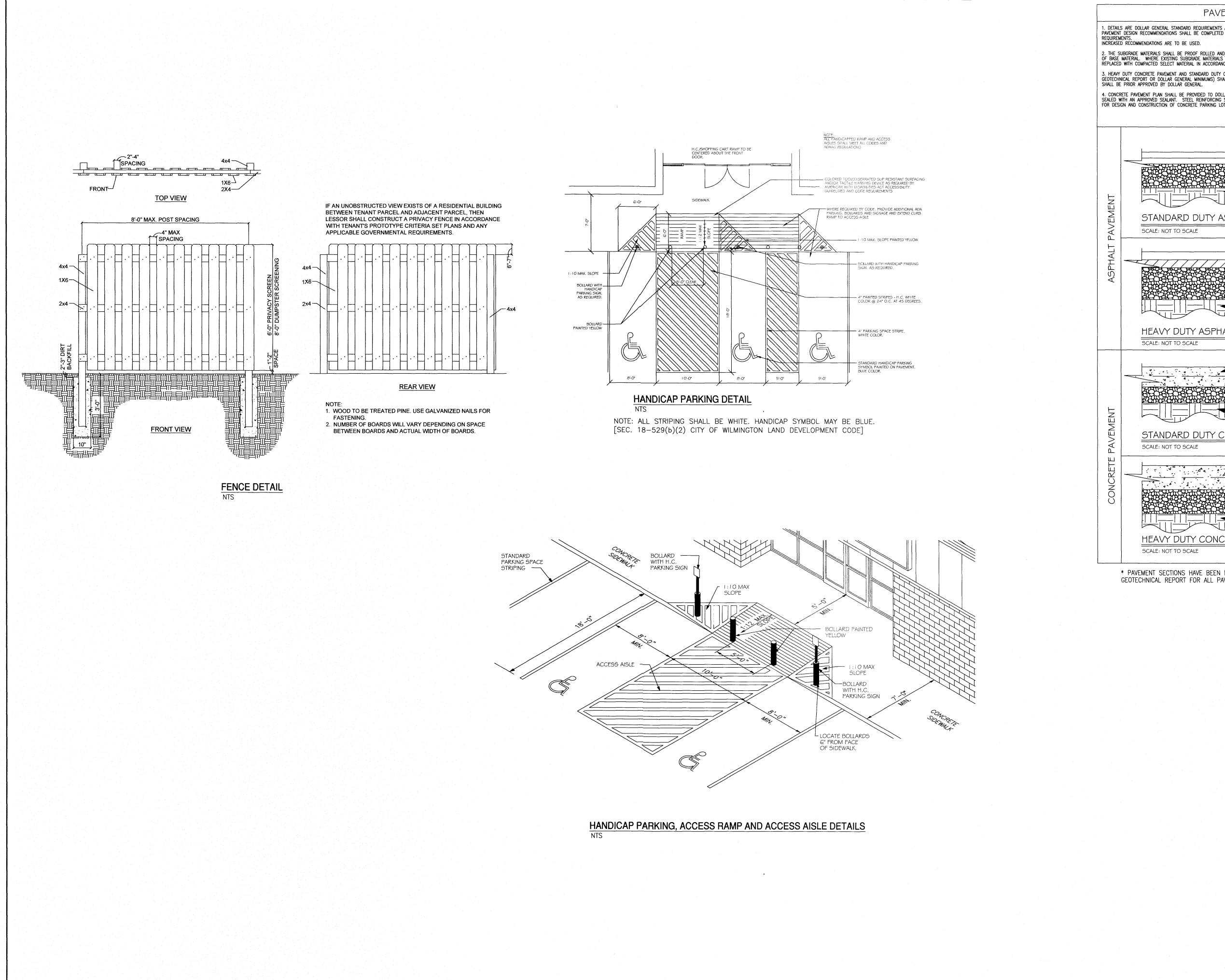
18" FLOW LINE CURB SECTION

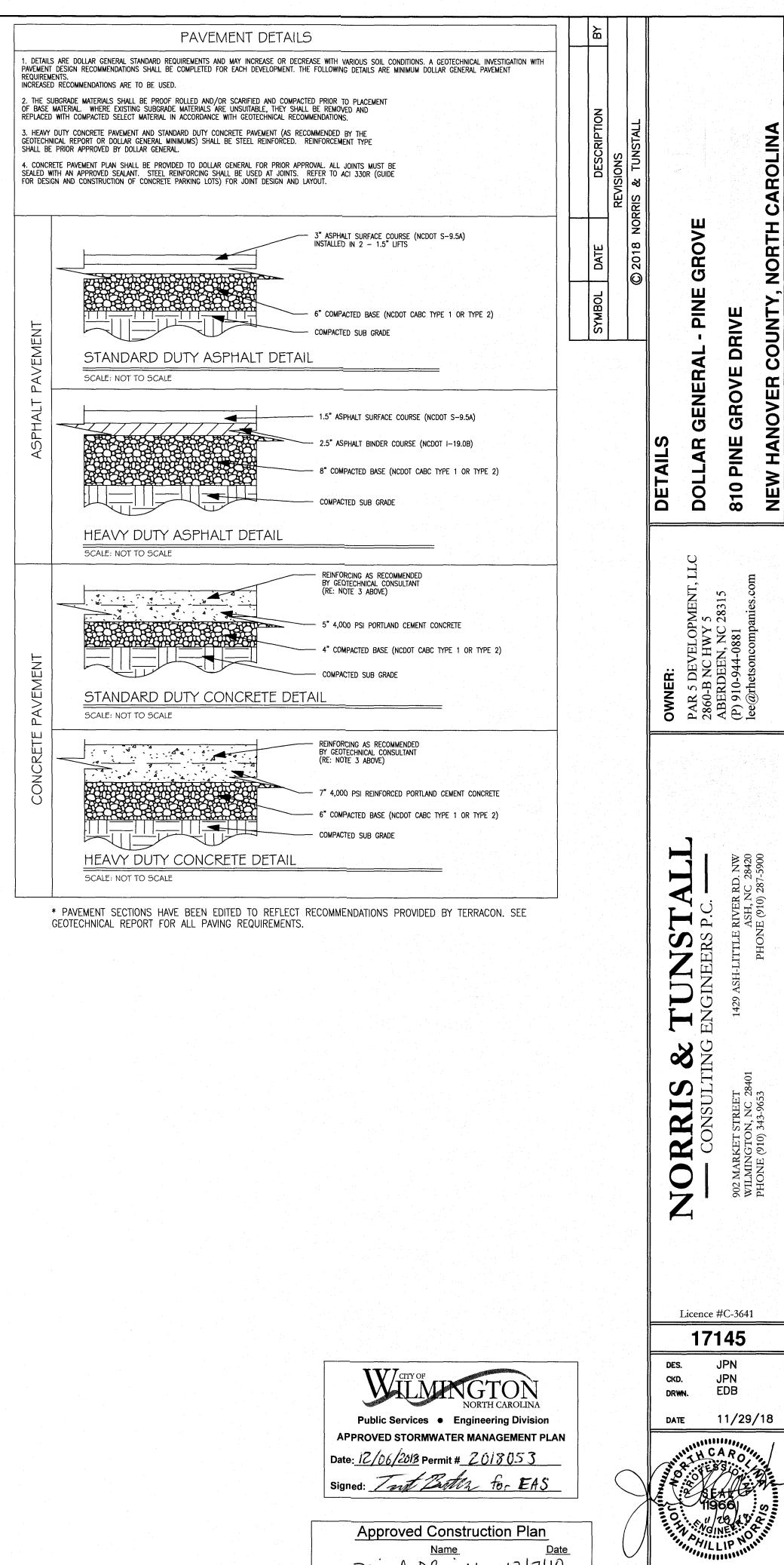
ACCEPTING FLOW SHALL BE FLOW LINE TYPE.

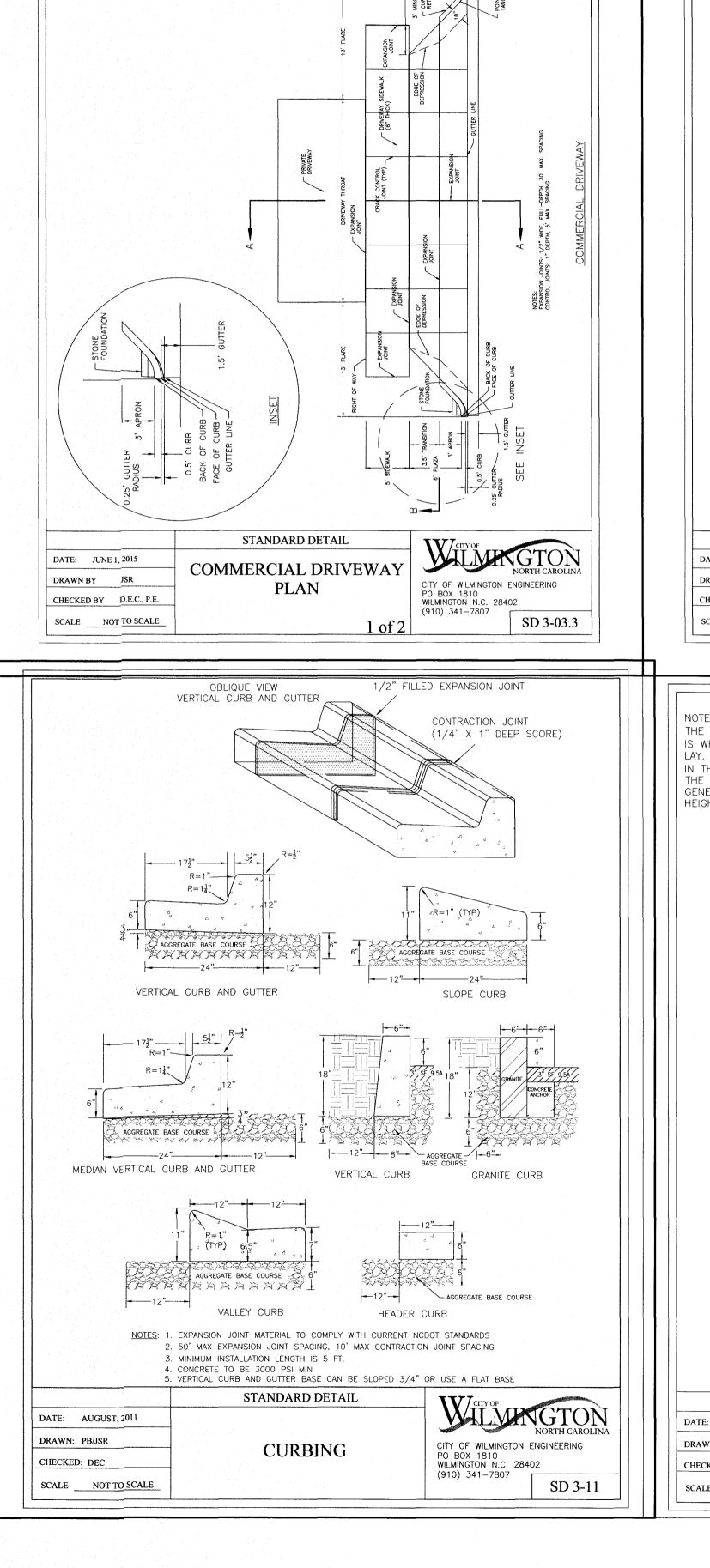
PERMIT COMPLIANCE.

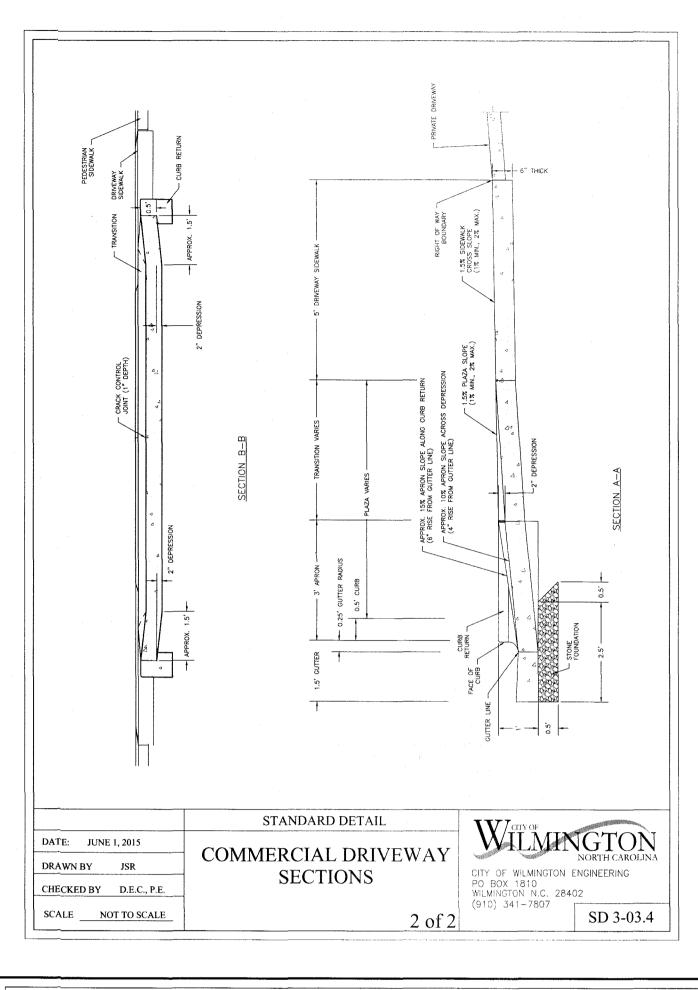
APPROVED STORMWATER MANAGEMENT PLAN Date: 12/06/2018 Permit # 2018053 Tout Butter for EAS

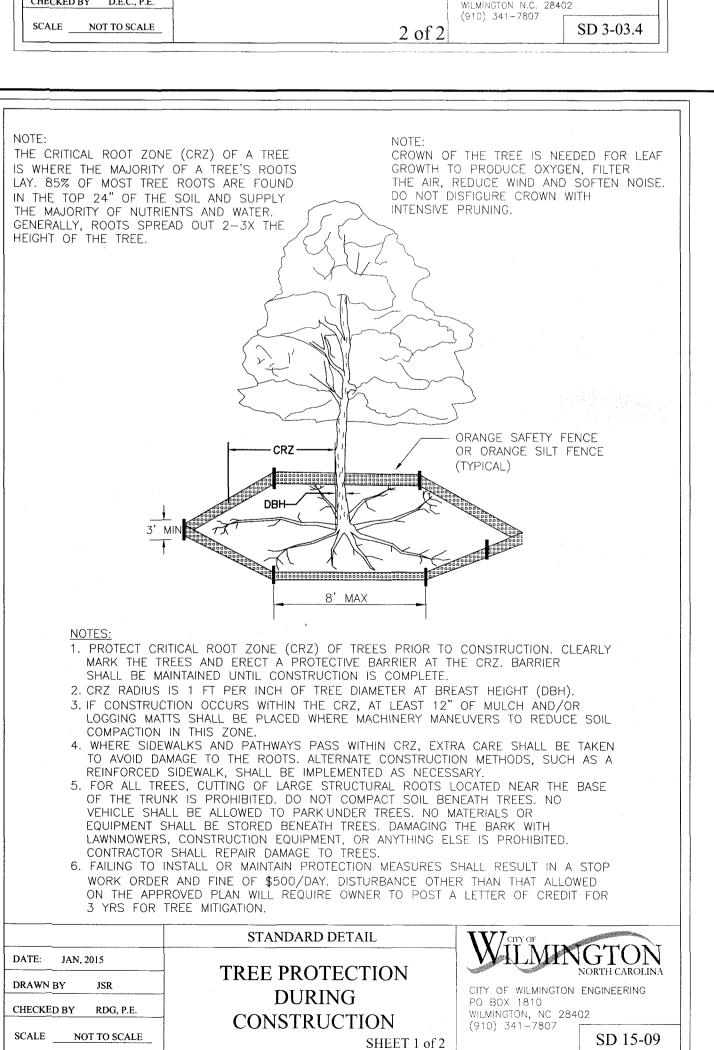
> **Approved Construction Plan** <u>Date</u>

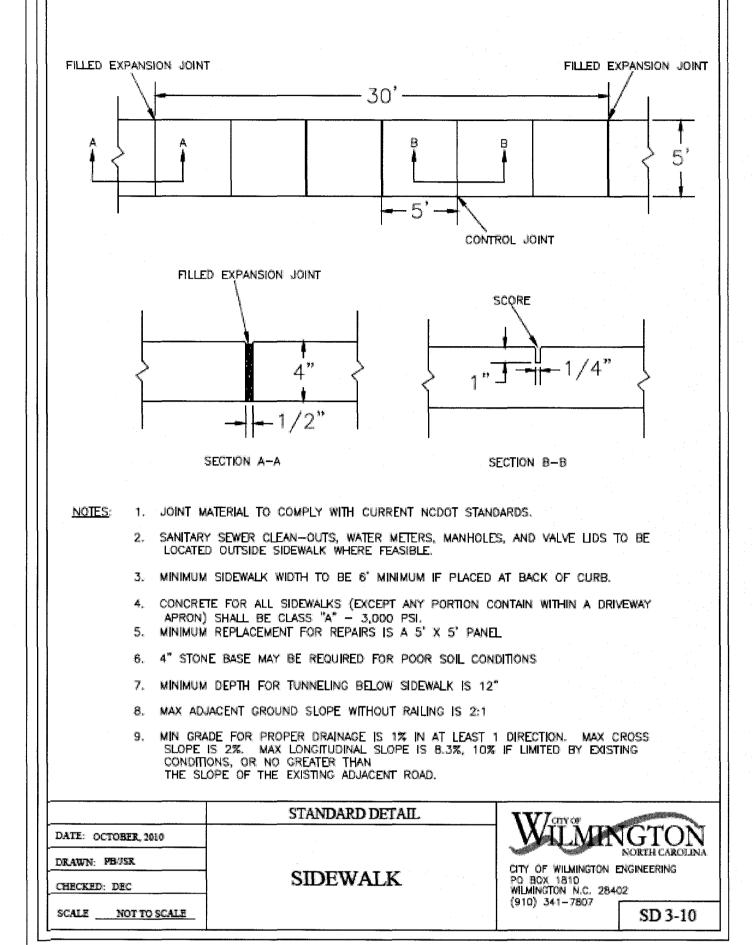


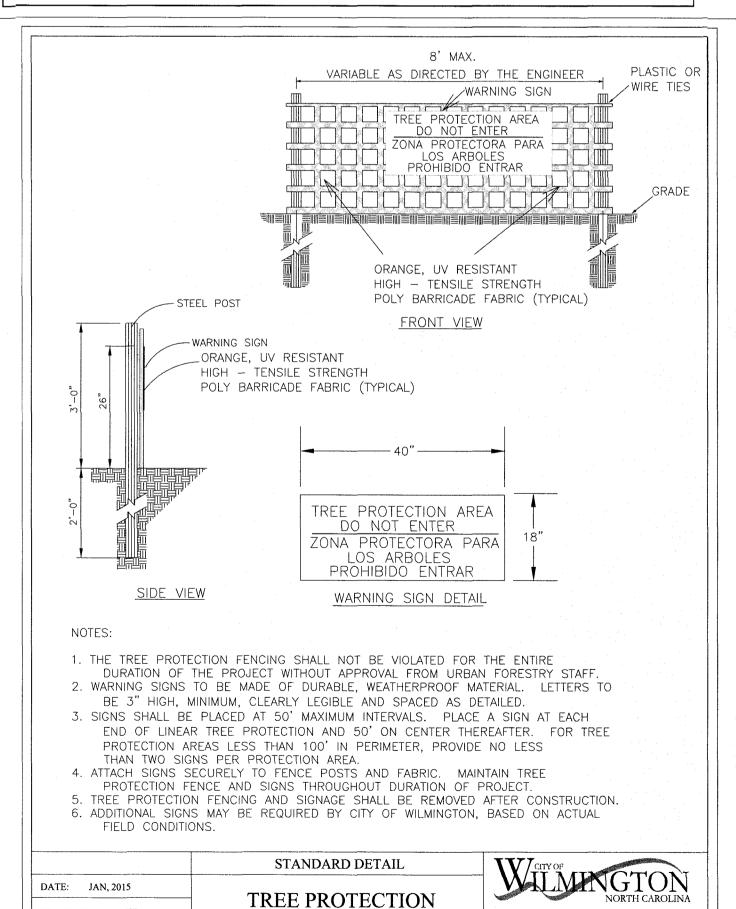












DURING

CONSTRUCTION

SHEET 2 of 2

CITY OF WILMINGTON ENGINEERING

SD 15-09

PO BOX 1810

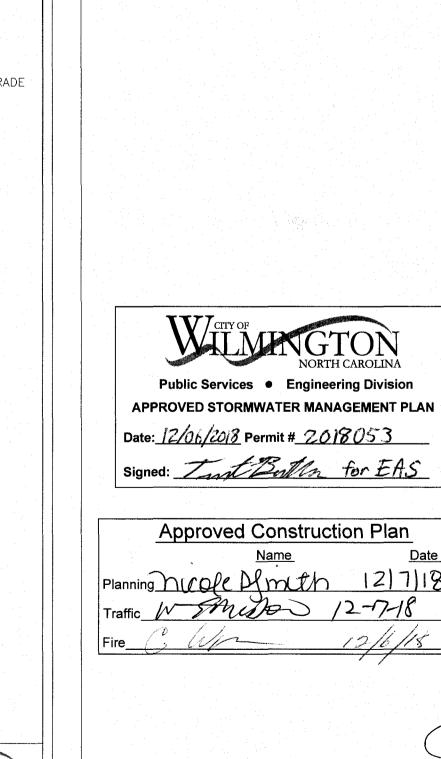
(910) 341-7807

WILMINGTON, NC 28402

DRAWN BY JSR

CHECKED BY RDG, P.E.

SCALE NOT TO SCALE





NORRI — CONSU

902 MARKET STREET
WILMINGTON, NC 2
PHONE (910) 343-965

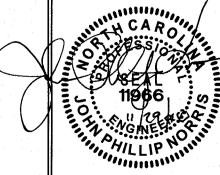
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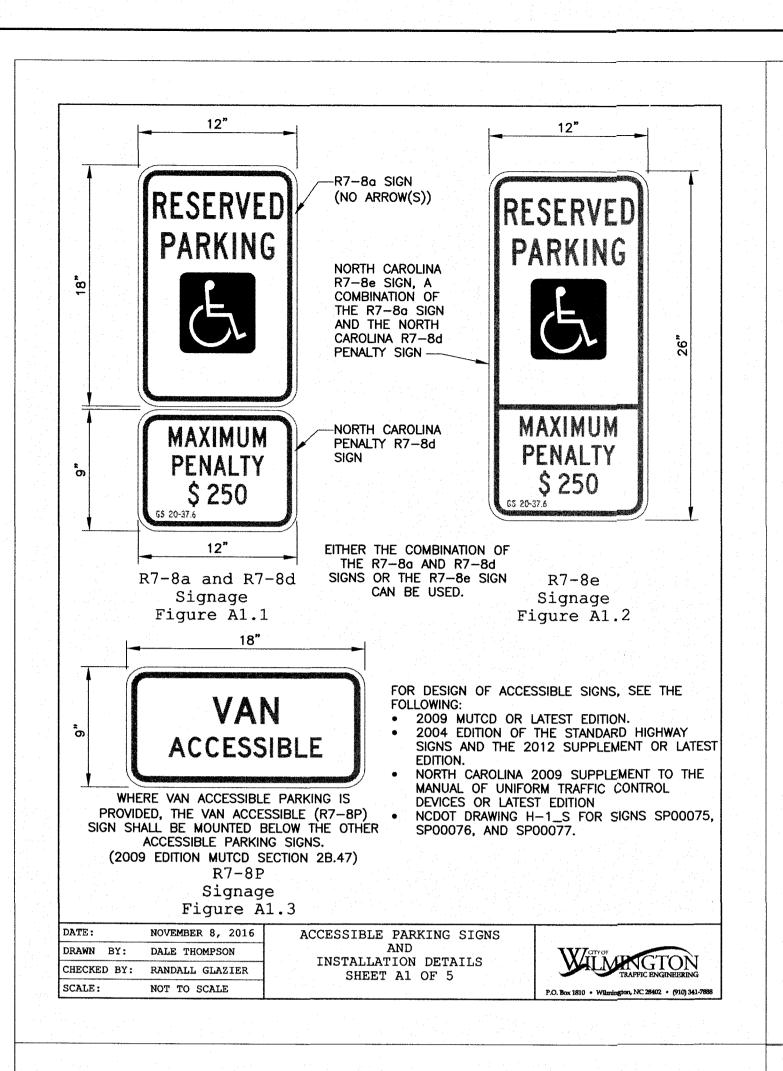
DES. JPN
CKD IPN

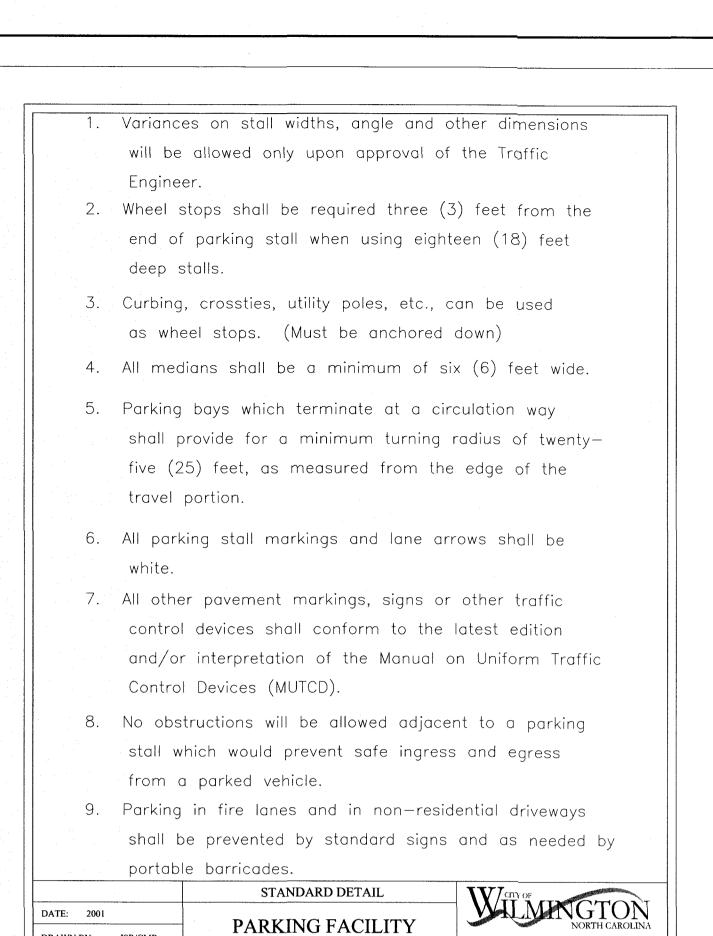
DES. JPN
CKD. JPN
DRWN. EDB
DATE 11/29

DATE 11/29/18



C7





DESIGN NOTES

CITY OF WILMINGTON ENGINEERING

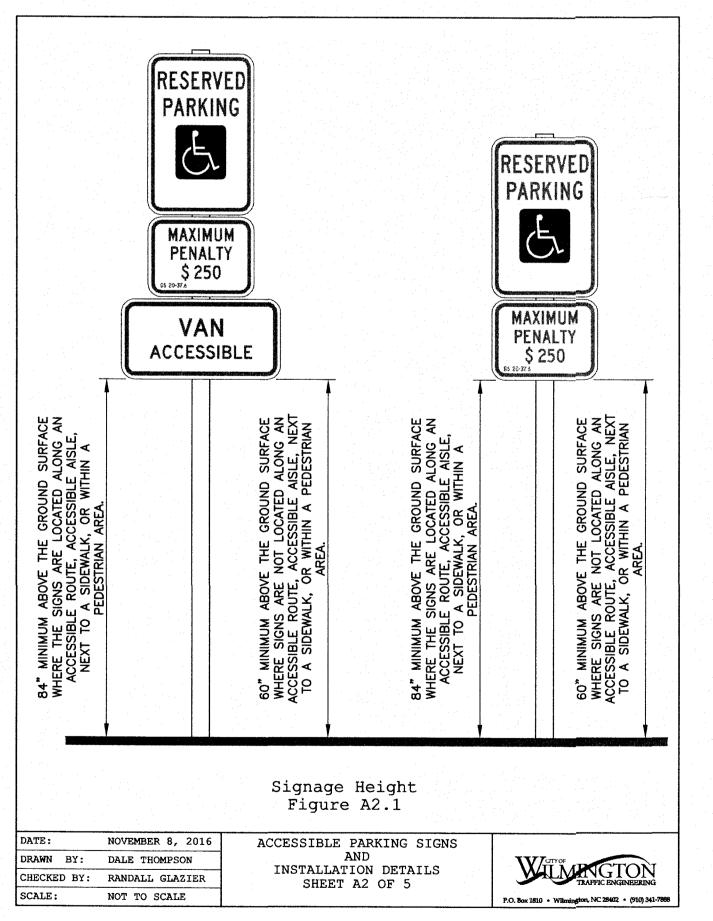
SD 15-13

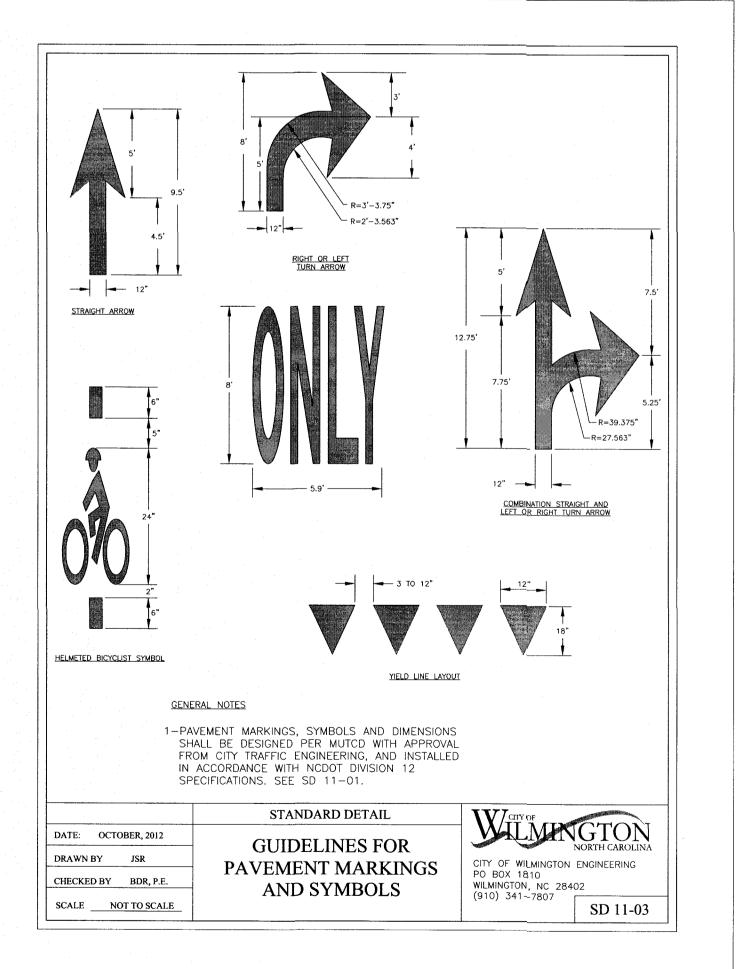
PO BOX 1810 WILMINGTON, NC 28402

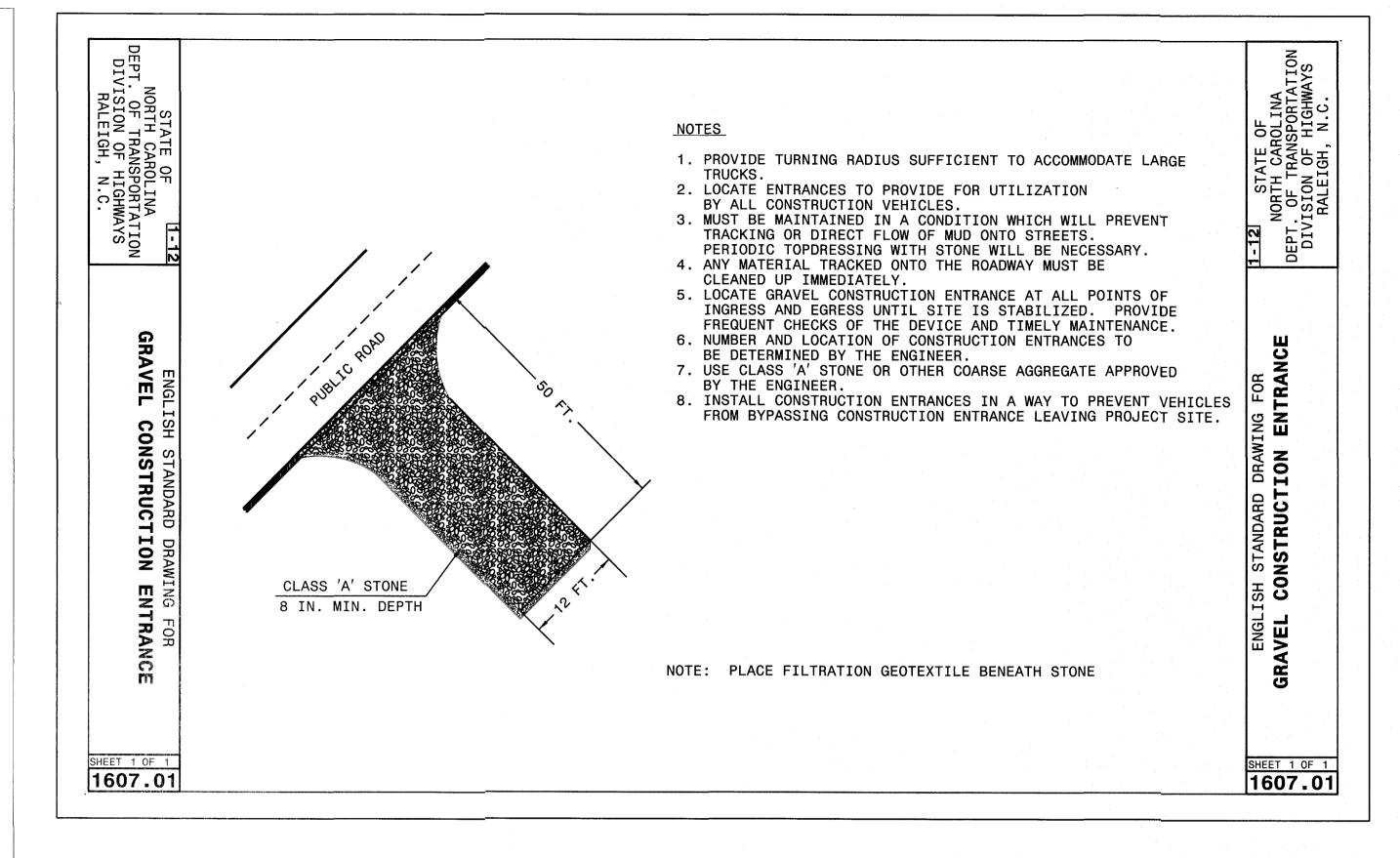
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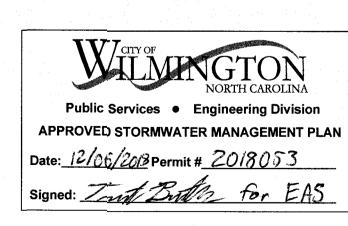
CHECKED BY B.P., P.E.

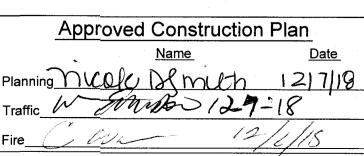
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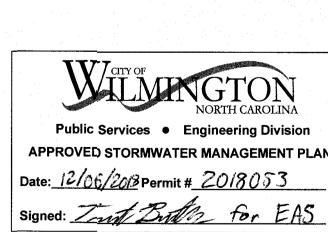


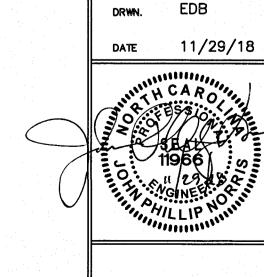












CKD.

DOLLAR

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TUNSTAL ENGINEERS P.C.

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NORRIS — CONSULT

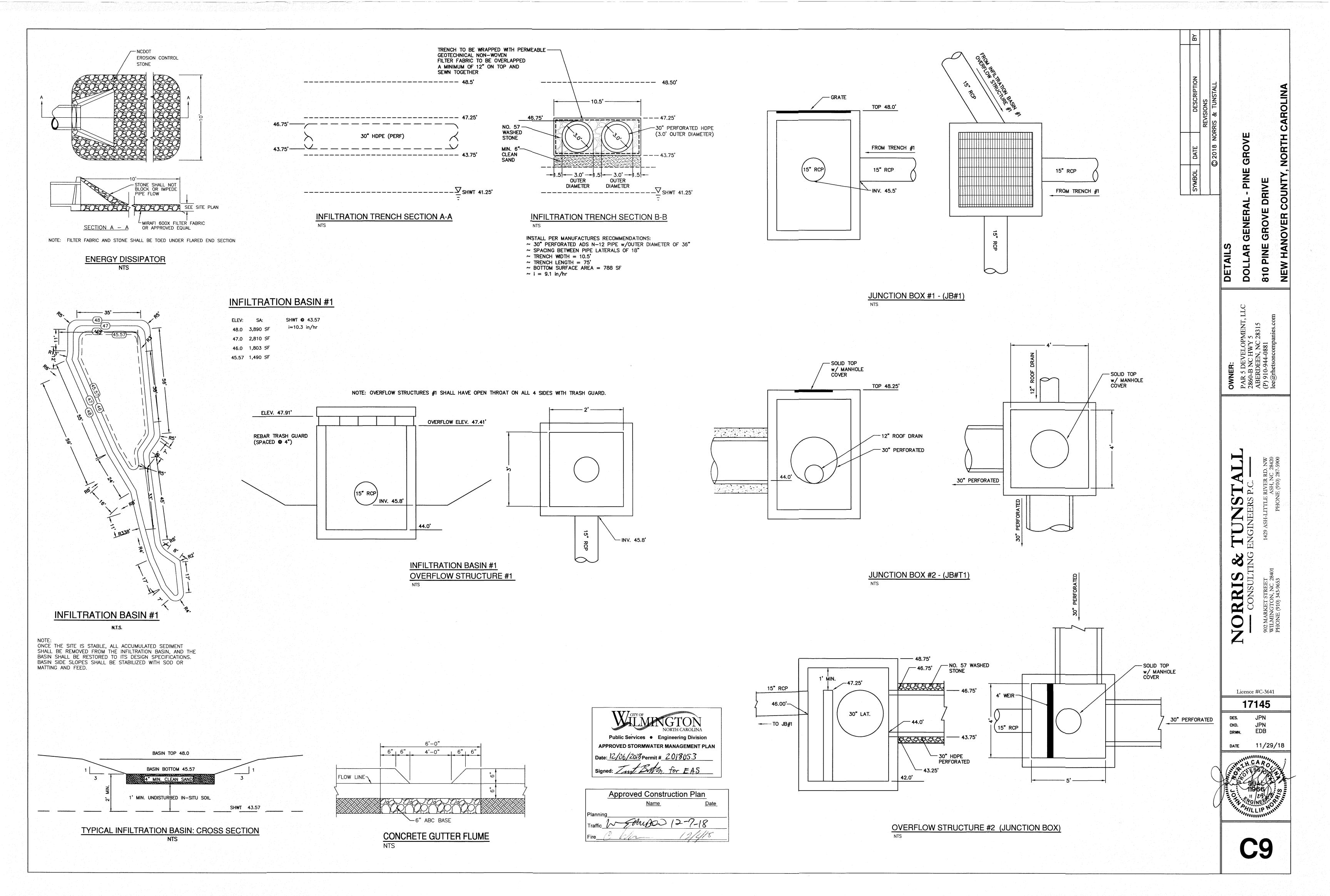
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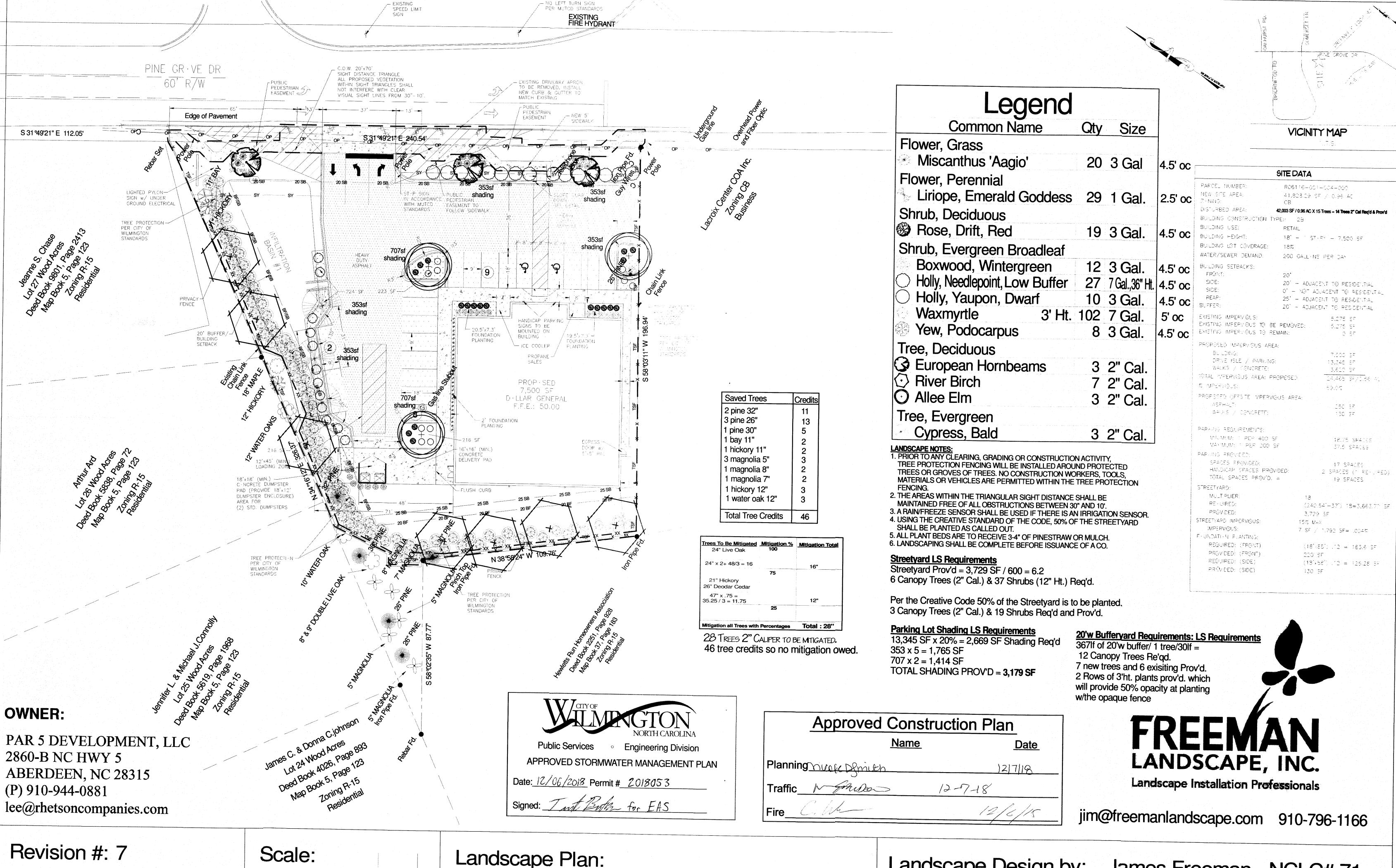
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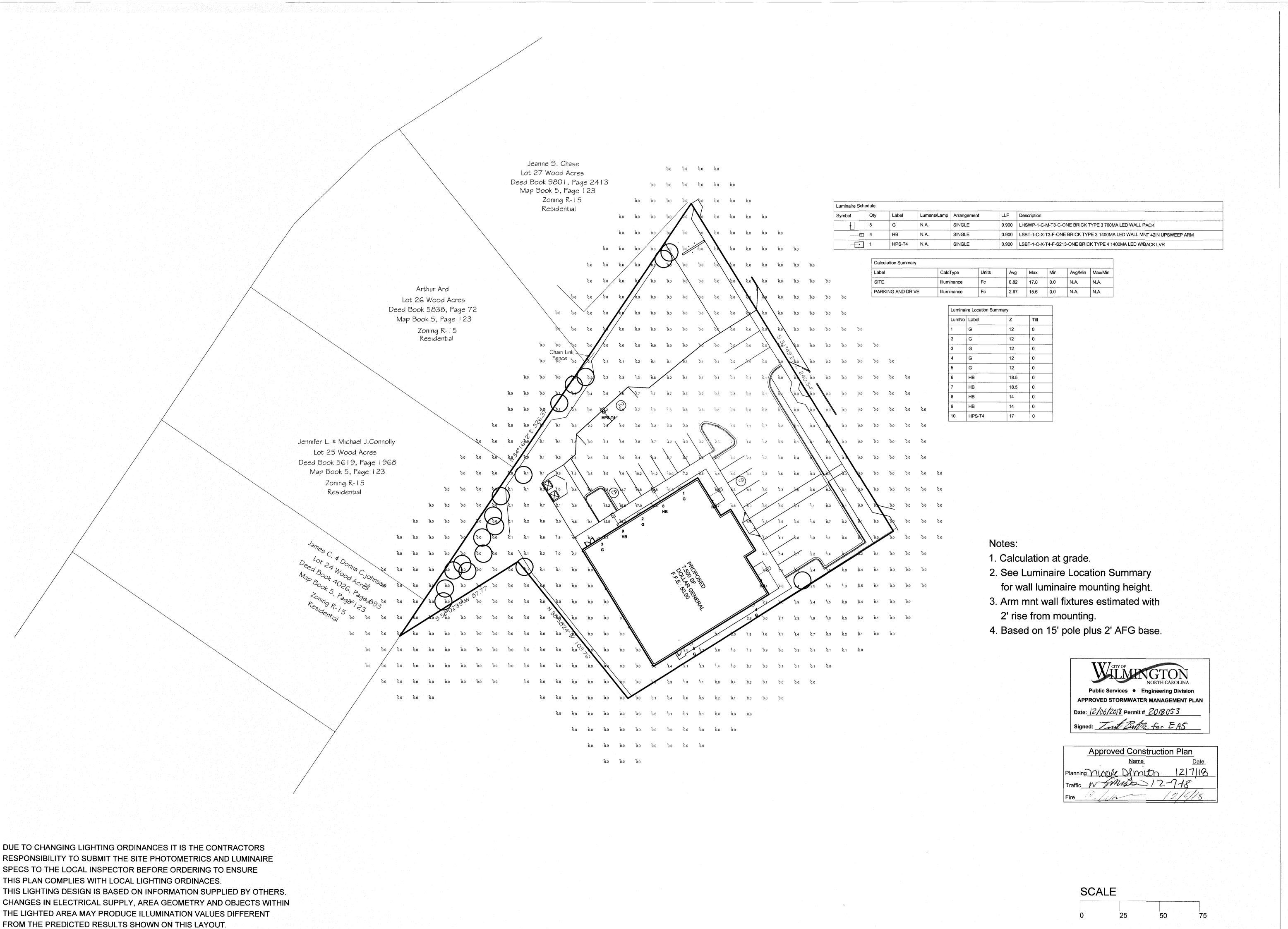


Date: 12/3/2018

1'' = 20'

Dollar General - Pine Grove Rd. Freeman Landscape, Inc.

Landscape Design by: James Freeman - NCLC# 71



THIS LAYOUT IS BASED ON IES FILES THAT WERE LAB TESTED OR COMPUTER

GENERATED. ACTUAL RESULTS MAY VARY.

TECHLIGHT

2707 SATSUMA

DALLAS, TX 75229

Project:

DOLLAR
GENERAL
19883
WILMINGTON

Notes:

FILE:

dg-19883.agi

Date:

9-13-18