

VICINITY MAP

INVENTORY SITE DATA

REVISIONS

SYMBOL	DATE	DESCRIPTION	BY

DEVELOPER
BAKER MOTOR COMPANY, LLC
4920 NEW CENTRE DRIVE
WILMINGTON, NC 28403
910 624-6060

CONSULTING ENGINEERS P.C.
NORRIS & TUNSTALL
902 MARKET STREET
WILMINGTON, NC 28401
PHONE (910) 343-9633

DATE: 2/1/17
APPROVED FOR CONSTRUCTION
16038

FOR BID ONLY NOT FOR CONSTRUCTION

INCIDENT PAVES WATER PERMIT # _____
WATER CAPACITY _____ GPD
DWSR PERMIT # _____
SEWER CAPACITY _____ GPD
SEWER SHED # AND PLANT _____
SEWER TO FLOW THROUGH NEI: YES OR NO (CIRCLE ONE)

APPROVED CONSTRUCTION PLAN
Name: _____
Date: _____
Permit # _____

Public Services & Engineering Division
APPROVED STORMWATER MANAGEMENT PLAN

City of Wilmington
Seal

11

WILMINGTON, N. C.
4900 NEW CENTRE DRIVE
BAKER BMW OF WILMINGTON

INVENTORY SITE DATA

EXISTING PARCEL ID# 04915-003-003-001
EXISTING PARCEL PIN# 313820.605664.000
PARCEL ADDRESS: 4920 NEW CENTRE DRIVE
PARCEL OWNER: JASPER BOULEVARD LLC
NEW PARCEL A: 9.67 AC (161,272 SF)
NEW PARCEL B: 3.70 AC (64,274 SF)
NEW PARCEL C: 5.97 AC (107,228 SF)
NEW PARCEL D: 4.90 AC (88,274 SF)
ADDRESS: 4920 NEW CENTRE DRIVE
AUTOMOBILE DEALER
CURRENT ZONING: RB-REGIONAL BUSINESS
CAMA LAND CLASSIFICATION: URBAN
SOIL TYPE: MU
SITE DOES NOT LIE WITHIN A SPECIAL FLOOD HAZARD AREA
NO CHAMA AREAS OF CONCERN OR ASSOCIATED SETBACKS
HISTORICAL/ARCHAEOLOGICAL SITE: NONE
FORESTED AREA: NONE
WETLANDS: NONE EXIST WITHIN SITE AREA
ENDANGERED SPECIES/HABITAT: NONE REPORTED

TRACT A
16,272 SF
3.70 AC.

TRACT B
25,974 SF
5.97 AC.

SHOW ROOM & SHOP
1,198 SF
FTE = 41.08'

METAL BUILDING (SHOP)
1,198 SF
FTE = 41.03'

UTILITY STATION SITE

UTILITY FACILITY
DB 806 PG 683

UTILITY FACILITY
DB 2191 PG 653

UTILITY FACILITY
DB 1060 PG 668

UTILITY FACILITY
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SCALE: 1" = 40'

0 40 80 120

FOR EACH OPEN UTILITY CUT OF THE UNDERGROUND UTILITIES SHOWN, THE EXACT LOCATION INDICATED THROUGH THE SURVEYOR HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES.

FOR REFERENCE SEE DEED BOOK 1466 PAGE 338 & DEED BOOK 2124 PAGE 57.

THIS TRACT IS NOT LOCATED IN A SPECIAL FLOOD HAZARD AREA AS SHOWN ON FIRMS 372031384, EFFECTIVE DATE APRIL 3, 2006.

VERTICAL DATUM NAVD 88

NO OBSERVED EVIDENCE OF RECENT EARTH MOVING ACTIVITY.

NO OBSERVED EVIDENCE OF A SOLID WASTE DUMP BASED ON RECENT SURVEY AND OBSERVED EVIDENCE NO WETLANDS.

SURVEY NOTE:

1. AREA COMPUTED BY COORDINATE METHOD.

2. ALL DISTANCES ARE HORIZONTAL GROUND.

3. THIS SURVEY IS NOT FOR RECORDATION, IT DOES NOT MEET ALL REQUIREMENTS OF G.S. 47-30.

4. THE UNDERGROUND UTILITIES SHOWN ON THIS SURVEY ARE LOCATED FROM FIELD SURVEY INFORMATION, AND EXISTING AS-BUILT DRAWINGS. THE SURVEYOR MAKES NO GUARANTEE THAT THE UNDERGROUND UTILITIES SHOWN ARE THE EXACT LOCATION INDICATED THROUGH THE SURVEYOR HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES.

5. FOR REFERENCE SEE DEED BOOK 1466 PAGE 338 & DEED BOOK 2124 PAGE 57.

6. THIS TRACT IS NOT LOCATED IN A SPECIAL FLOOD HAZARD AREA AS SHOWN ON FIRMS 372031384, EFFECTIVE DATE APRIL 3, 2006.

7. VERTICAL DATUM NAVD 88

8. NO OBSERVED EVIDENCE OF RECENT EARTH MOVING ACTIVITY.

9. NO OBSERVED EVIDENCE OF A SOLID WASTE DUMP BASED ON RECENT SURVEY AND OBSERVED EVIDENCE NO WETLANDS.

SURVEY DATA PROVIDED BY HANOVER DESIGN SERVICES, P.A.
1122 FLORENCE PARKWAY, WILMINGTON, NC 28403
PHONE: (910) 446-0000
SURVEY DATED DECEMBER 8, 2015.

UTILITY FACILITY
DB 806 PG 683

UTILITY FACILITY
DB 2191 PG 653

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DB 1060 PG 668

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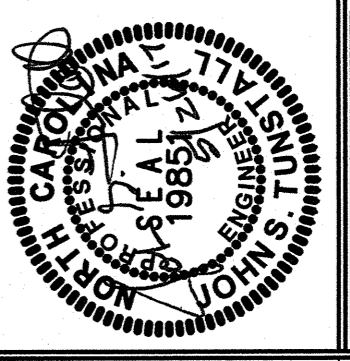
OVERALL SITE PLAN
BAKER BMW OF WILMINGTON
4900 NEW CENTER DRIVE
WILMINGTON, N. C.

DEVELOPER
BAKER MOTOR COMPANY, LLC
WILMINGTON, NC 28403
910 624-6060

NORRIS & TUNSTALL
CONSULTING ENGINEERS P.C.
1429 ASH-LITTLE RIVER RD. NW
ASH, NC 28420
PHONE (910) 343-9533

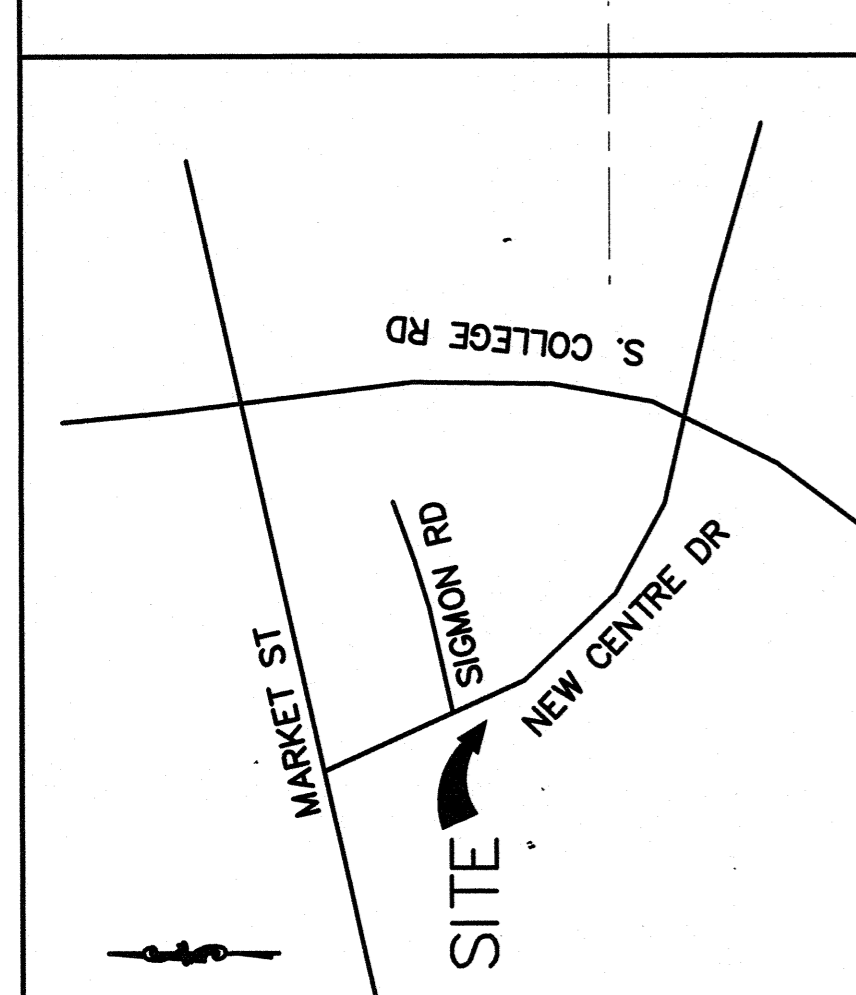
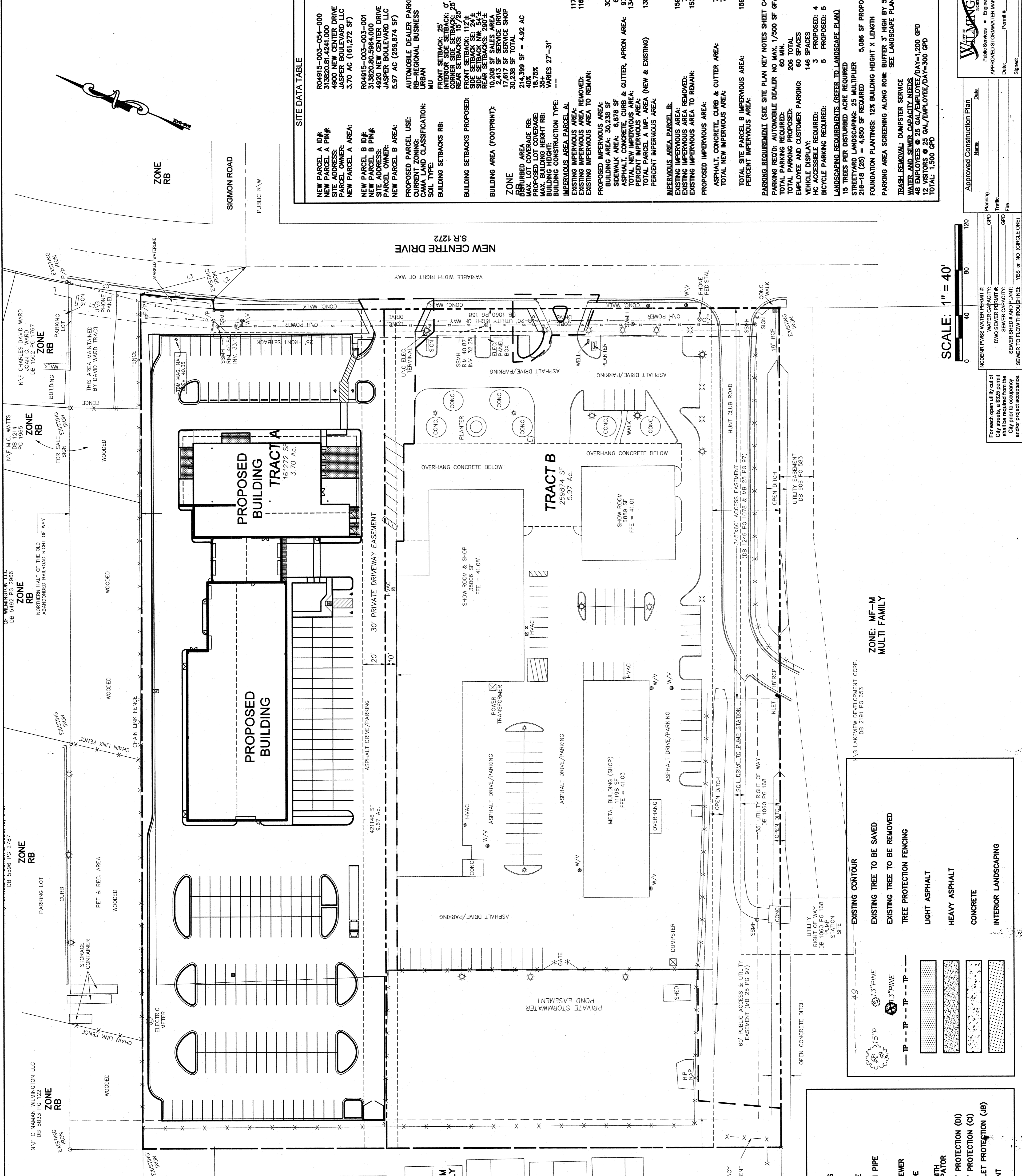
License #C-5461
16038

DATE 2/1/17
BY NKS
CHECKED BY JPN
DESIGNED BY JST



FOR BID ONLY NOT FOR CONSTRUCTION
CO

REVISIONS	BY	DATE	DESCRIPTION



SITE DATA TABLE

NEW PARCEL A ID#	04915-003-054-000
NEW PARCEL A PIN#	315820.81.6241.000
NEW PARCEL A AREA	3.70 AC (161,272 SF)
NEW PARCEL B ID#	04915-003-003-001
NEW PARCEL B PIN#	313820.80.5964.000
NEW PARCEL B AREA	5.97 AC (259,874 SF)
CURRENT ZONING	URBAN
PROPOSED ZONING	RB-REGIONAL BUSINESS
SOIL TYPE	URBAN MU
BUILDING SETBACKS RB:	FRONT SETBACK: 25'
	INTERIOR SIDE SETBACK: 0'
	REAR SETBACKS: 15', 20', 25'
	FRONT SETBACK: 112'
	SIDE SETBACK SE: 24'
	REAR SETBACKS: 20', 24'
	FRONT SETBACK: 20'
	REAR SETBACKS: 20', 24'
	2,413 SF SALES AREA
	17,817 SF SERVICE SHOP
	30,238 SF TOTAL
	214,389 SF = 4.82 AC
	18.75% VARIES 27'-31'
BUILDING SETBACKS PROPOSED:	
BUILDING AREA (FOOTPRINT):	117,362 SF
	116,807 SF
	585 SF
	30,238 SF
	6,878 SF
	97,431 SF
	15,889 SF
	83,429 SF
	135,102 SF
	83.77%
IMPERVIOUS AREA PARCEL B:	159,202 SF
EXISTING IMPERVIOUS AREA REMOVED:	7,017 SF
EXISTING IMPERVIOUS AREA TO REMAIN:	152,185 SF
PROPOSED IMPERVIOUS AREA:	7,017 SF
ASPHALT, CONCRETE, CURB & GUTTER AREA:	159,202 SF
TOTAL NEW IMPERVIOUS AREA:	61,264
PARKING REQUIREMENT (SEE SITE PLAN KEY NOTES SHEET C4)	
PARKING REQ'D: AUTOMOBILE DEALER NO MAX 1,500 SF GFA MIN:	
TOTAL PARKING REQUIRED:	208 TOTAL
TOTAL PARKING PROVIDED:	60 SPACES
EMPLOYEE AND CUSTOMER PARKING:	148 SPACES
VEHICLE DISPLAY:	3 PROPOSED: 5
HC ACCESSIBLE REQUIRED:	5 PROPOSED: 5
BICYCLE PARKING REQUIRED:	5 PROPOSED: 5
LANDSCAPING REQUIREMENTS (REFER TO LANDSCAPE PLAN)	
15 TREES PER DISTURBED ACRE REQUIRED	5,086 SF PROPOSED
STREET YARD LANDSCAPING: 25 MULTIPLIER	216-18 (25) = 4,950 SF REQUIRED
FOUNDATION PLANTINGS: 12% BUILDING HEIGHT X LENGTH	
PARKING AREA SCREENING ALONG ROW: BUFFER 3' HIGH BY 5' WIDE	
TRASH REMOVAL: DUMPSTER SERVICE	
WATER AND SEWER CAPACITY NEEDS	
48 EMPLOYEES @ 25 GAL/EMPLOYEE/DAY=1,200 GPD	
12 VISITORS @ 25 GAL/EMPLOYEE/DAY=300 GPD	
TOTAL:	1,500 GPD

SCALE: 1" = 40'

Approved Construction Plan

Name: _____	Date: _____
Flaming: _____	GPD: _____
Traffic: _____	GPD: _____
Water: _____	GPD: _____
Sanitary Sewer: _____	GPD: _____
Stormwater: _____	GPD: _____

FOR EACH OPEN UTILITY OUT OF CITY STREETS, A \$325 PERMIT MUST BE OBTAINED FROM THE CITY ENGINEER. ALL UTILITIES SHALL BE RELOCATED TO THE SEWER SHEDS AND PLANT. SEWERS TO FLOW THROUGH NEI: YES OR NO (CIRCLE ONE).

LEGEND

- PROPERTY LINE
- DISTURBED AREA LIMITS
- PROPOSED CONTOUR
- TEMPORARY SILT FENCE
- PROPOSED STORM DRAIN PIPE
- PROPOSED WATERLINE
- PROPOSED SANITARY SEWER
- PROPOSED FINISH GRADE
- SPOT ELEVATION
- FLARED END SECTION WITH RIP-RAP ENERGY DISSIPATOR
- DROP INLET WITH INLET PROTECTION (DI)
- CURB INLET WITH INLET PROTECTION (CI)
- JUNCTION BOX WITH INLET PROTECTION (JB)
- PROPOSED FIRE HYDRANT
- EXISTING CONTOUR
- EXISTING TREE TO BE SAVED
- EXISTING TREE TO BE REMOVED
- TREE PROTECTION FENCING
- LIGHT ASPHALT
- HEAVY ASPHALT
- CONCRETE
- INTERIOR LANDSCAPING

EXISTING CONTOUR

- 49' 15" PINE
- 49' 15" PINE
- TP -- TP -- TP -- TP

ZONE: MF-M MULTI-FAMILY

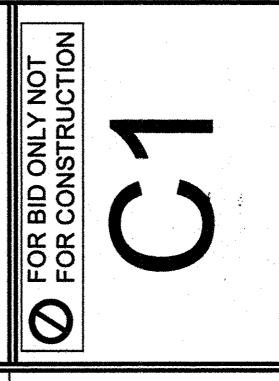
Approved Construction Plan
Name: _____ Date: _____
Flaming: _____ Date: _____
Traffic: _____ Date: _____
Water: _____ Date: _____
Sanitary Sewer: _____ Date: _____
Stormwater: _____ Date: _____

DEVELOPER
BAKER MOTOR COMPANY, LLC
4920 NEW CENTER DRIVE
WILMINGTON, NC 28403
910 624-6060

CONTRACTING ENGINEERS P.C.
NORRIS & TUNSTALL
429 ASH-LITTLE RIVER RD., NW
WILMINGTON, NC 28401
PHONE (910) 287-5900

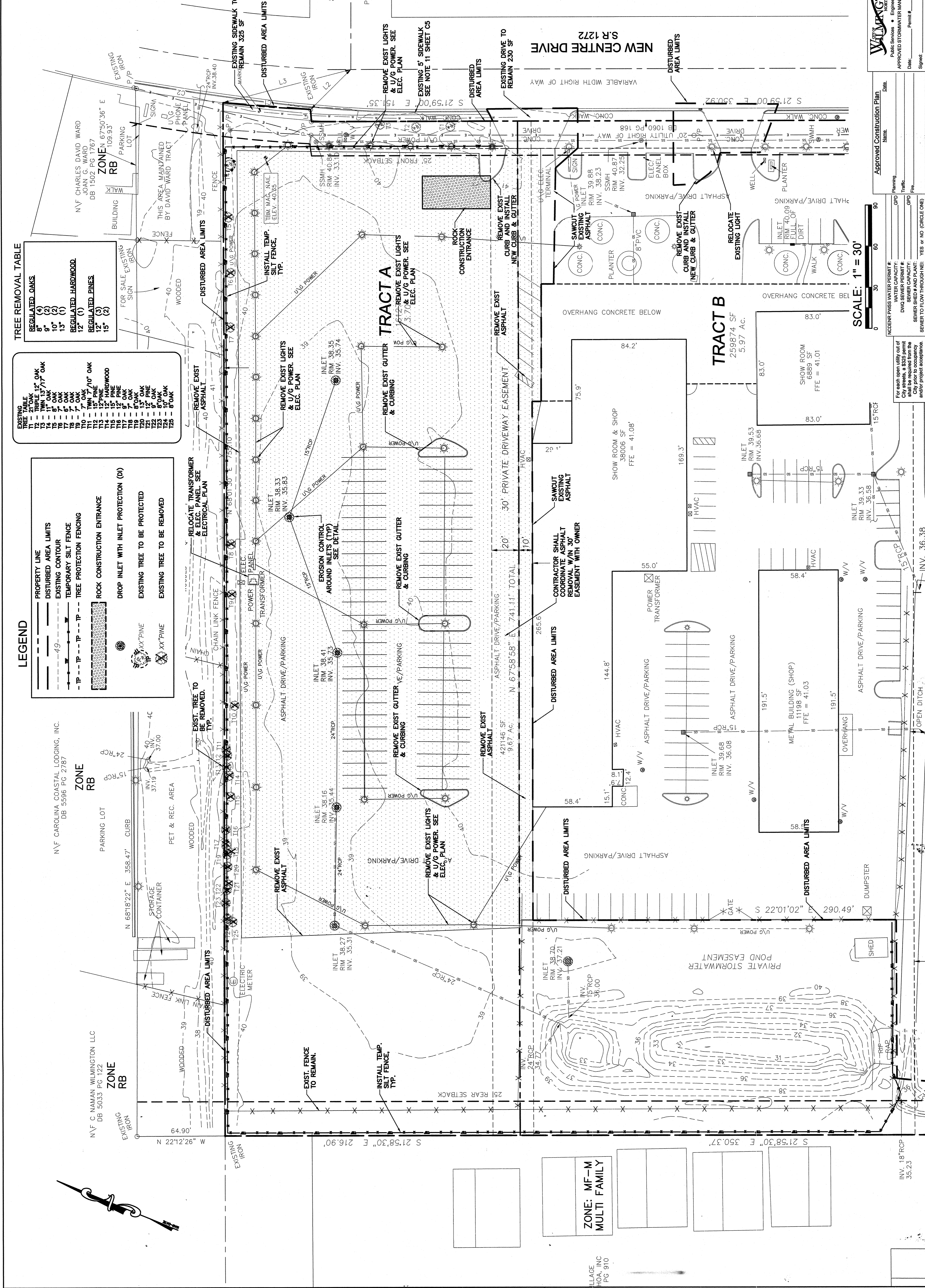
WILMINGTON, N. C.
BAKER BMW OF WILMINGTON
4900 NEW CENTER DRIVE
WILMINGTON, N. C.

License #C-3641
16038
DES. JUST
CHK. JPN
DRWN. NKS
DATE 2/1/17



FOR BID ONLY NOT FOR CONSTRUCTION
C1

REVISIONS	DATE	DESCRIPTION	BY



TREE REMOVAL TABLE

EXISTING TREE TABLE	PROPOSED TREE TABLE
T1 - 21" OAK	11 - 21" OAK
T2 - 12" OAK	12 - 12" OAK
T3 - 11" OAK	13 - 11" OAK
T4 - 8" OAK	14 - 8" OAK
T5 - 7" OAK	15 - 7" OAK
T6 - 7" OAK	16 - 7" OAK
T7 - 7" OAK	17 - 7" OAK
T8 - 7" OAK	18 - 7" OAK
T9 - 7" OAK	19 - 7" OAK
T10 - 7" OAK	20 - 7" OAK
T11 - 10" OAK	21 - 10" OAK
T12 - 12" PINE	22 - 12" PINE
T13 - 12" PINE	23 - 12" PINE
T14 - 12" PINE	24 - 12" PINE
T15 - 12" PINE	25 - 12" PINE
T16 - 12" PINE	26 - 12" PINE
T17 - 12" PINE	27 - 12" PINE
T18 - 12" PINE	28 - 12" PINE
T19 - 12" PINE	29 - 12" PINE
T20 - 12" PINE	30 - 12" PINE
T21 - 12" PINE	31 - 12" PINE
T22 - 12" PINE	32 - 12" PINE
T23 - 12" PINE	33 - 12" PINE
T24 - 12" PINE	34 - 12" PINE
T25 - 12" PINE	35 - 12" PINE
T26 - 12" PINE	36 - 12" PINE
T27 - 12" PINE	37 - 12" PINE
T28 - 12" PINE	38 - 12" PINE
T29 - 12" PINE	39 - 12" PINE
T30 - 12" PINE	40 - 12" PINE
T31 - 12" PINE	41 - 12" PINE
T32 - 12" PINE	42 - 12" PINE
T33 - 12" PINE	43 - 12" PINE
T34 - 12" PINE	44 - 12" PINE
T35 - 12" PINE	45 - 12" PINE
T36 - 12" PINE	46 - 12" PINE
T37 - 12" PINE	47 - 12" PINE
T38 - 12" PINE	48 - 12" PINE
T39 - 12" PINE	49 - 12" PINE
T40 - 12" PINE	50 - 12" PINE
T41 - 12" PINE	51 - 12" PINE
T42 - 12" PINE	52 - 12" PINE
T43 - 12" PINE	53 - 12" PINE
T44 - 12" PINE	54 - 12" PINE
T45 - 12" PINE	55 - 12" PINE
T46 - 12" PINE	56 - 12" PINE
T47 - 12" PINE	57 - 12" PINE
T48 - 12" PINE	58 - 12" PINE
T49 - 12" PINE	59 - 12" PINE
T50 - 12" PINE	60 - 12" PINE
T51 - 12" PINE	61 - 12" PINE
T52 - 12" PINE	62 - 12" PINE
T53 - 12" PINE	63 - 12" PINE
T54 - 12" PINE	64 - 12" PINE
T55 - 12" PINE	65 - 12" PINE
T56 - 12" PINE	66 - 12" PINE
T57 - 12" PINE	67 - 12" PINE
T58 - 12" PINE	68 - 12" PINE
T59 - 12" PINE	69 - 12" PINE
T60 - 12" PINE	70 - 12" PINE
T61 - 12" PINE	71 - 12" PINE
T62 - 12" PINE	72 - 12" PINE
T63 - 12" PINE	73 - 12" PINE
T64 - 12" PINE	74 - 12" PINE
T65 - 12" PINE	75 - 12" PINE
T66 - 12" PINE	76 - 12" PINE
T67 - 12" PINE	77 - 12" PINE
T68 - 12" PINE	78 - 12" PINE
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T71 - 12" PINE	81 - 12" PINE
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T75 - 12" PINE	85 - 12" PINE
T76 - 12" PINE	86 - 12" PINE
T77 - 12" PINE	87 - 12" PINE
T78 - 12" PINE	88 - 12" PINE
T79 - 12" PINE	89 - 12" PINE
T80 - 12" PINE	90 - 12" PINE
T81 - 12" PINE	91 - 12" PINE
T82 - 12" PINE	92 - 12" PINE
T83 - 12" PINE	93 - 12" PINE
T84 - 12" PINE	94 - 12" PINE
T85 - 12" PINE	95 - 12" PINE
T86 - 12" PINE	96 - 12" PINE
T87 - 12" PINE	97 - 12" PINE
T88 - 12" PINE	98 - 12" PINE
T89 - 12" PINE	99 - 12" PINE
T90 - 12" PINE	100 - 12" PINE

LEGEND

- PROPERTY LINE
- DISTURBED AREA LIMITS
- EXISTING CONTOUR
- TEMPORARY SILT FENCE
- TREE PROTECTION FENCING
- ROCK CONSTRUCTION ENTRANCE
- DROP INLET WITH INLET PROTECTION (DI)
- EXISTING TREE TO BE PROTECTED
- EXISTING TREE TO BE REMOVED

ZONE RB
N/V CAROLINA COASTAL LODGING, INC.
DB 5596 PG 2787

ZONE RB
N/V C NAWAN WILMINGTON LLC
DB 5033 PG 122

ZONE RB
N/V CHARLES DAVID WARD
JOAN G. WARD
DB 1502 PG 1767

ZONE RB
N/V CHARLES DAVID WARD
JOAN G. WARD
DB 1502 PG 1767

SCALE: 1" = 30'

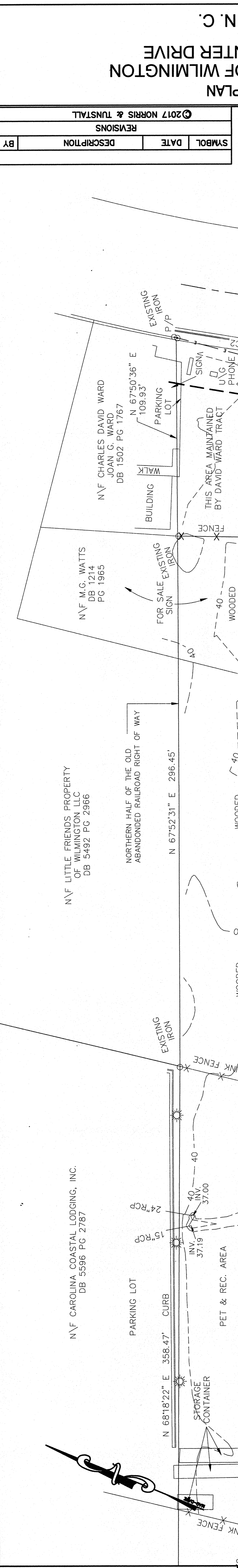
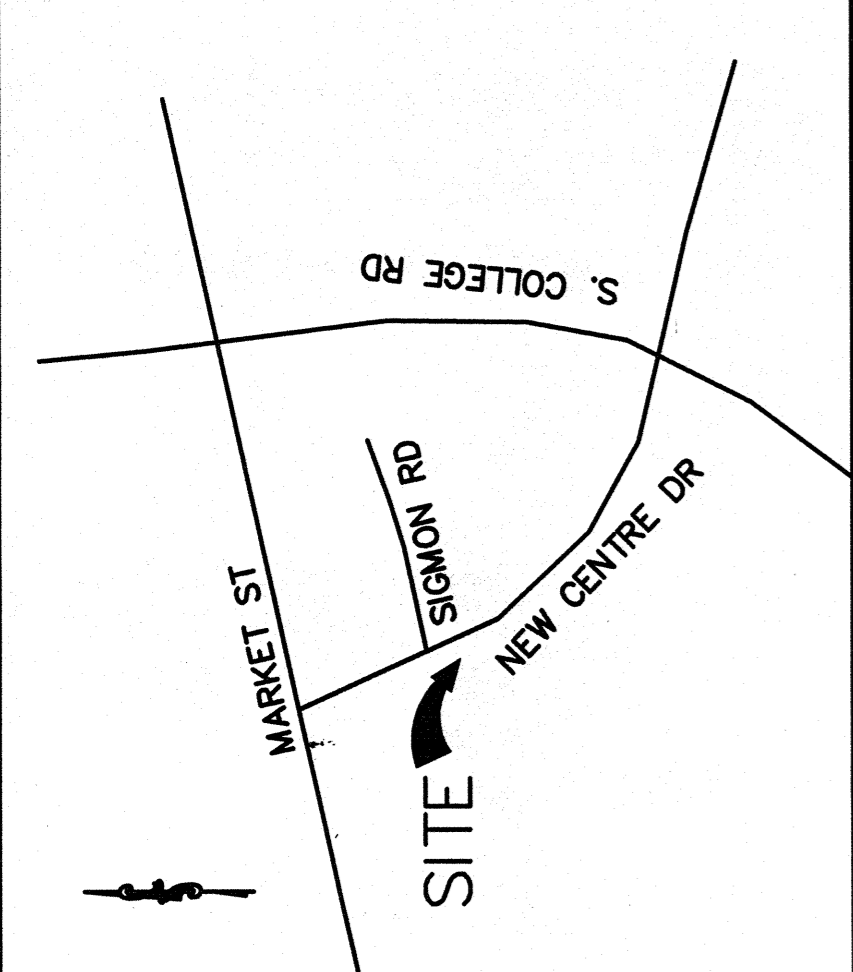
APPROVED CONSTRUCTION PLAN

DATE: 2/1/17

PLANNING: []
TRAFFIC: []
FINANCIAL: []
GEOGRAPHIC: []

INDEXED PWBS WATER PERMIT #:
DIMS SCHEDULE PERMIT #:
SEWER CAPACITY:
SEWER SHED # AND PLANT:
SEWER TO FLOW THROUGH NEI: YES OR NO (CIRCLE ONE)

For each open utility out of ground, the contractor shall verify the location, depth, and size of the utility prior to occupancy and/or project acceptance.



VICINITY MAP

DA-15 7,740 SF 0.2 AC
 DA-16 9,430 SF 0.22 AC IMP: 9,140 SF
 DA-17 218,854 SF 5.02 AC

DA-1 4,550 SF 0.104 AC IMP: 3,902 SF
 DA-2 8,116 SF 0.19 AC IMP: 7,907 SF
 DA-3 5,485 SF 0.125 AC IMP: 5,041 SF
 DA-4 3,910 SF 0.09 AC IMP: 3,053 SF
 DA-5 10,740 SF 0.25 AC
 DA-6 7,564 SF 0.17 AC
 DA-7 9,516 SF 0.22 AC
 DA-8 9,500 SF 0.22 AC
 DA-9 2,448 SF 0.06 AC
 DA-10 8,650 SF 0.2 AC IMP: 8,434 SF
 DA-11 26,635 SF 0.61 AC IMP: 25,442 SF
 DA-12 3,800 SF 0.09 AC
 DA-13 3,500 SF 0.08 AC
 DA-14 7,740 SF 0.2 AC
 DA-15 7,740 SF 0.2 AC
 DA-16 9,430 SF 0.22 AC IMP: 9,140 SF
 DA-17 218,854 SF 5.02 AC

B-1 161,573 SF 3.7 AC
 B-2 191,573 SF 4.4 AC
 B-3 191,573 SF 4.4 AC
 B-4 191,573 SF 4.4 AC
 B-5 191,573 SF 4.4 AC
 B-6 191,573 SF 4.4 AC
 B-7 191,573 SF 4.4 AC
 B-8 191,573 SF 4.4 AC
 B-9 191,573 SF 4.4 AC
 B-10 191,573 SF 4.4 AC
 B-11 191,573 SF 4.4 AC
 B-12 191,573 SF 4.4 AC
 B-13 191,573 SF 4.4 AC
 B-14 191,573 SF 4.4 AC
 B-15 191,573 SF 4.4 AC
 B-16 191,573 SF 4.4 AC
 B-17 191,573 SF 4.4 AC

NEW TRACT A
 161,573 SF 3.7 AC

TRACT B
 259,874 SF 5.97 AC

POND
 38,006 SF 0.87 AC

EXISTING
 18,013 SF 0.41 AC

DRAINAGE AREA TABLE

DRAINAGE AREA	SIZE
B-1	4,125 SF
B-2	4,125 SF
B-3	4,125 SF
B-4	1,200 SF
B-5	1,060 SF
B-6	1,600 SF
B-7	1,600 SF
B-8	1,750 SF
B-9	1,750 SF
B-10	1,600 SF
B-11	2,625 SF
B-12	2,625 SF
B-13	1,800 SF
B-14	1,800 SF
B-15	1,800 SF
B-16	1,800 SF
B-17	1,800 SF

DEVELOPER

BAKER MOTOR COMPANY, LLC
 4920 NEW CENTRE DRIVE
 WILMINGTON, NC 28403
 910 624-6080

CONSULTING ENGINEERS P.C.

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

WILMINGTON, N. C.

BAKER BMW OF WILMINGTON
 4900 NEW CENTRE DRIVE
 WILMINGTON, N. C.

DATE

2/1/17

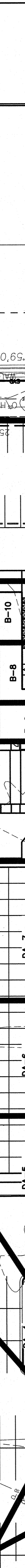
BY

2017 NORRIS & TUNSTALL

REVISIONS

SYMBOL	DATE	DESCRIPTION

SCALE: 1" = 30'



INDICATOR PWSW WATER PERMIT #

INDICATOR PWSW WATER PERMIT #

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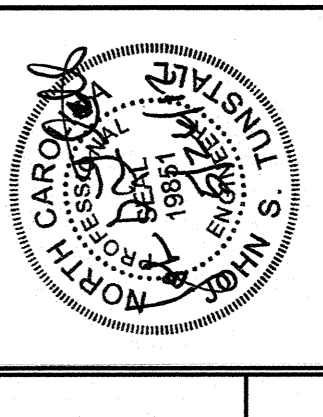
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INDICATOR PWSW WATER PERMIT #

INDICATOR PWSW WATER PERMIT #



16038
 License #C-3641

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C2.1

WILMINGTON, N. C.
 Public Services • Engineering Division
 APPROVED STORMWATER MANAGEMENT PLAN
 Date: _____ Permit #: _____
 Signed: _____

Approved Construction Plan
 Name: _____
 Title: _____
 Date: _____

INDICATOR PWSW WATER PERMIT # _____
 WATER CAPACITY: _____ GPD
 DRAINAGE AREA: _____ AC
 SEWER CAPACITY: _____ GPD
 SEWER SIZES AND PLANTS: _____
 SEWER TO FLOW THROUGHLINE: YES OR NO (CIRCLE ONE)

For each open utility out of City streets, a \$325 permit is required.
 City prior to occupancy and/or project acceptance.

INDICATOR PWSW WATER PERMIT # _____
 WATER CAPACITY: _____ GPD
 DRAINAGE AREA: _____ AC
 SEWER CAPACITY: _____ GPD
 SEWER SIZES AND PLANTS: _____
 SEWER TO FLOW THROUGHLINE: YES OR NO (CIRCLE ONE)

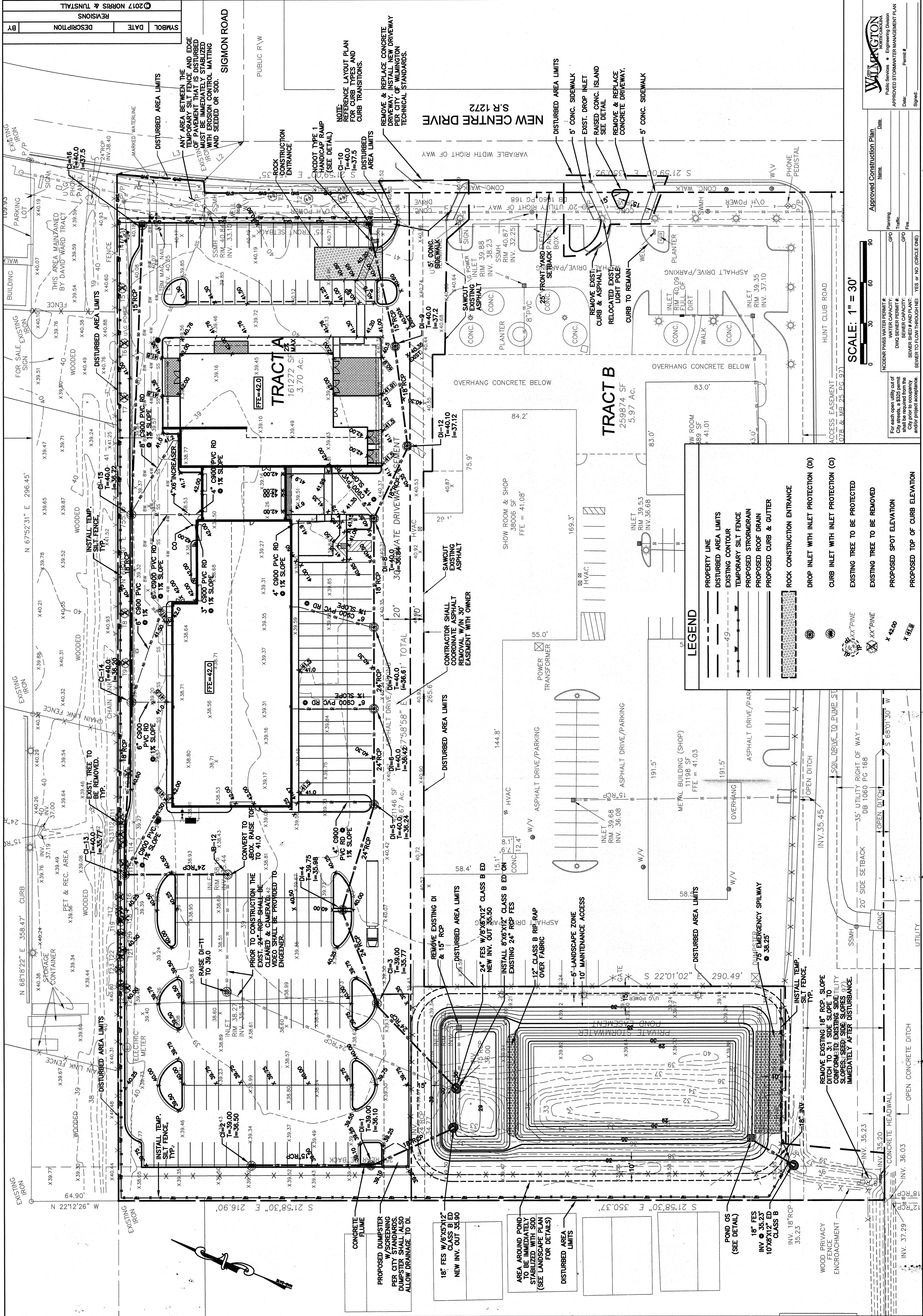
INDICATOR PWSW WATER PERMIT # _____
 WATER CAPACITY: _____ GPD
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 WATER CAPACITY: _____ GPD
 DRAINAGE AREA: _____ AC
 SEWER CAPACITY: _____ GPD
 SEWER SIZES AND PLANTS: _____
 SEWER TO FLOW THROUGHLINE: YES OR NO (CIRCLE ONE)

INDICATOR PWSW WATER PERMIT # _____
 WATER CAPACITY: _____ GPD
 DRAINAGE AREA: _____ AC
 SEWER CAPACITY: _____ GPD
 SEWER SIZES AND PLANTS: _____
 SEWER TO FLOW THROUGHLINE: YES OR NO (CIRCLE ONE)

INDICATOR PWSW WATER PERMIT # _____
 WATER CAPACITY: _____ GPD
 DRAINAGE AREA: _____ AC
 SEWER CAPACITY: _____ GPD
 SEWER SIZES AND PLANTS: _____
 SEWER TO FLOW THROUGHLINE: YES OR NO (CIRCLE ONE)



WILMINGTON
 Public Services • Engineering Division
 APPROVED STORMWATER MANAGEMENT PLAN

Name: _____ Date: _____
 Permit # _____
 Signature: _____

Approved Construction Plan

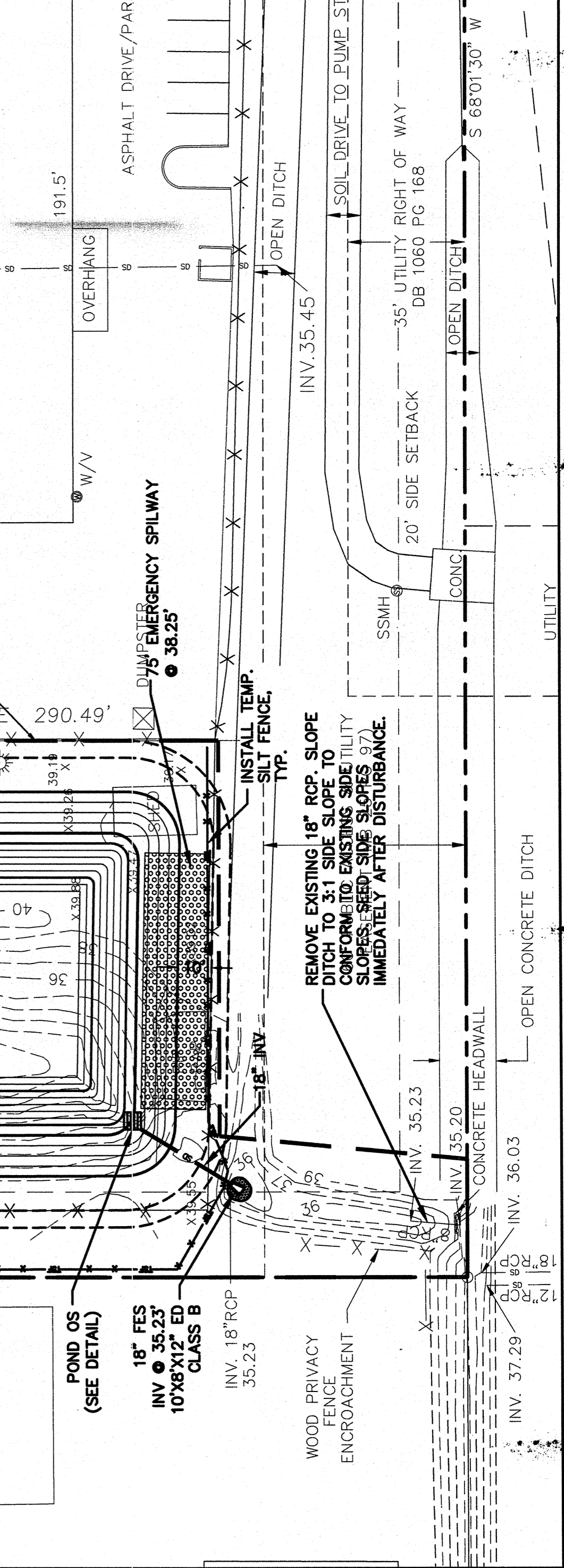
For each open utility out of City streets, a \$205 permit fee shall be paid. City prior to occupancy and/or project acceptance.

INDICATE PWSIS WATER PERMIT # _____
 WATER CAPACITY: _____ GPD
 DWS CAPACITY: _____ GPD
 SEWER SHEET AND PLANT: _____
 SEWER TO FLOW THROUGH: YES or NO (CIRCLE ONE)

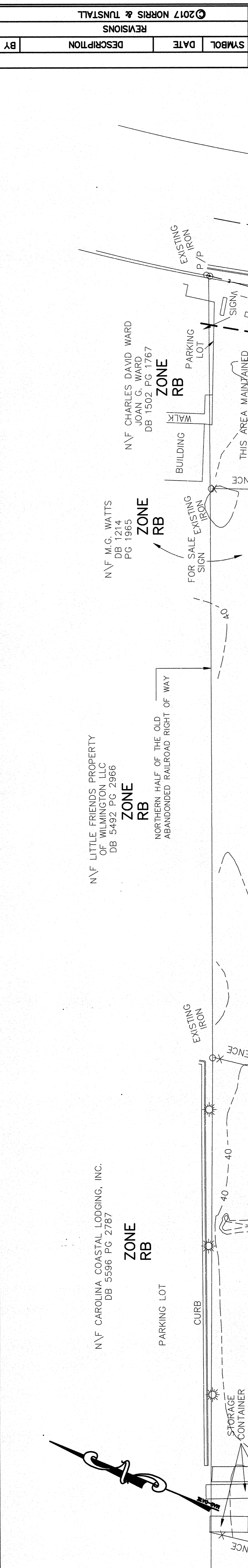
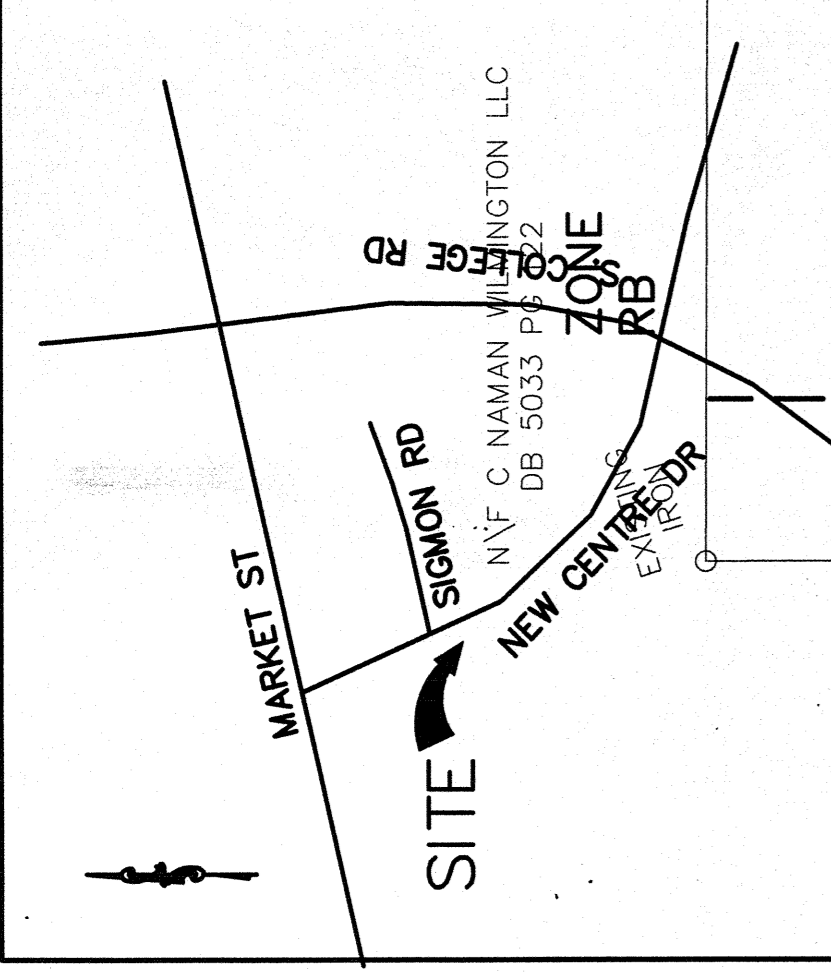
SCALE: 1" = 30'

LEGEND

- PROPERTY LINE
- DISTURBED AREA LIMITS
- EXISTING CONTOUR
- TEMPORARY SILT FENCE
- PROPOSED STORMDRAIN
- PROPOSED ROOF DRAIN
- PROPOSED CURB & GUTTER
- ROCK CONSTRUCTION ENTRANCE
- DROP INLET WITH INLET PROTECTION (D1)
- CURB INLET WITH INLET PROTECTION (C1)
- EXISTING TREE TO BE PROTECTED
- EXISTING TREE TO BE REMOVED
- PROPOSED SPOT ELEVATION
- PROPOSED TOP OF CURB ELEVATION



NEW CENTER DRIVE
 S R 1272



SYMBOL	DATE	DESCRIPTION	BY

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WILMINGTON, N. C.

BAKER BMW OF WILMINGTON
4900 NEW CENTER DRIVE
WILMINGTON, NC 28403

DEVELOPER
BAKER MOTOR COMPANY, LLC
4920 NEW CENTER DRIVE
WILMINGTON, NC 28403
910 624-6060

NORRIS & TUNSTALL
CONSULTING ENGINEERS P.C.
1429 ASH LITTLE RIVER RD. NW
WILMINGTON, NC 28401
PHONE (910) 343-9653
FAX (910) 287-5900

License #C-3641
16038
DES. LIST
CON. JPN
DRW. NKS
DATE 2/1/17

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C4

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

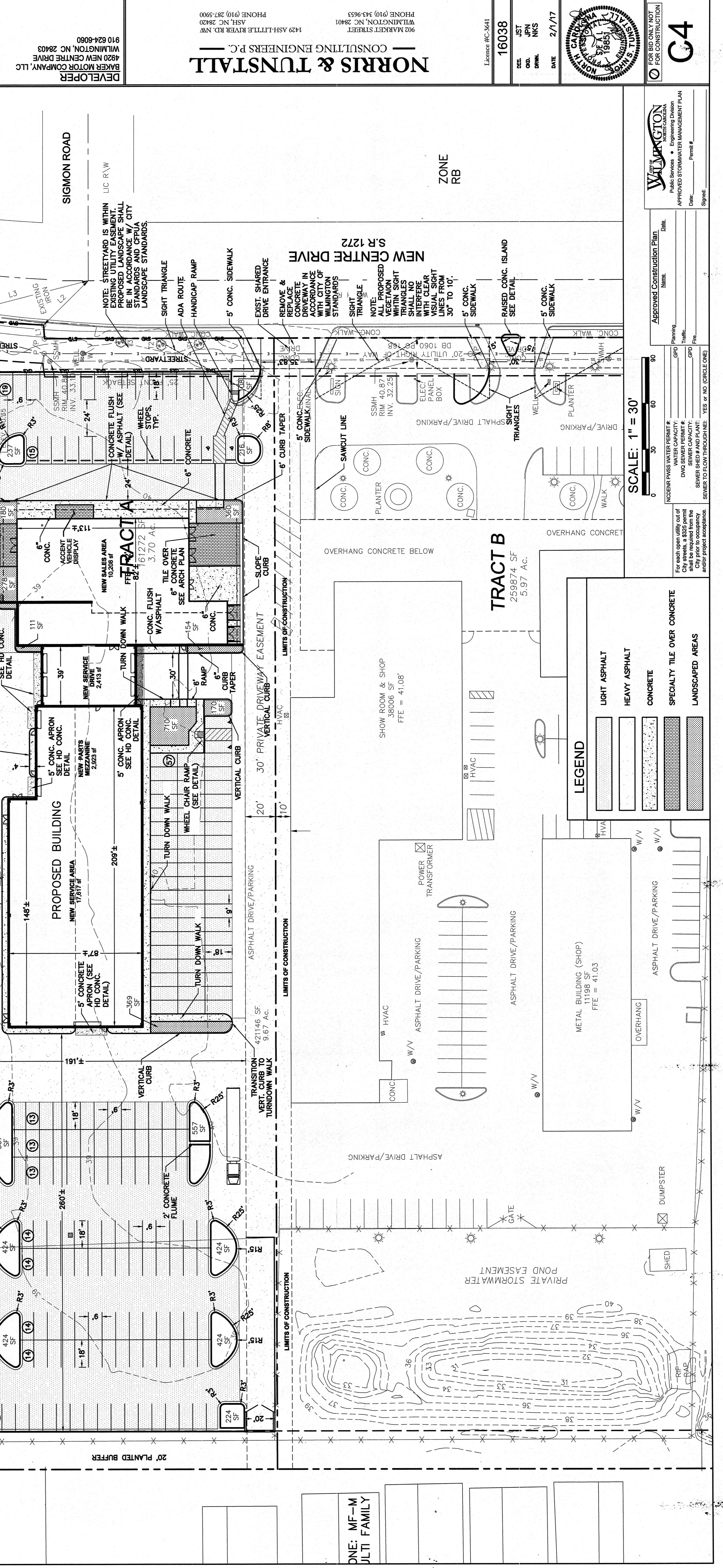
INDOOR PWS WATER PERMIT #:
WATER CAPACITY: _____ GPD
DRAINAGE CAPACITY: _____ GPD
SEWER CAPACITY: _____ GPD
SEWER SHED # AND PLANT: _____
SEWER TO FLOW THROUGH NEI: YES or NO (CIRCLE ONE)

For each open utility cut of City streets, a \$25 permit fee shall be paid to the City prior to occupancy and/or project acceptance.

SCALE: 1" = 30'

LEGEND

- LIGHT ASPHALT
- HEAVY ASPHALT
- CONCRETE
- SPECIALTY TILE OVER CONCRETE
- LANDSCAPED AREAS



WILMINGTON
Public Services • Engineering Division
APPROVED STORMWATER MANAGEMENT PLAN

DATE: _____
FILE: _____
PERMIT #: _____
SIGNED: _____

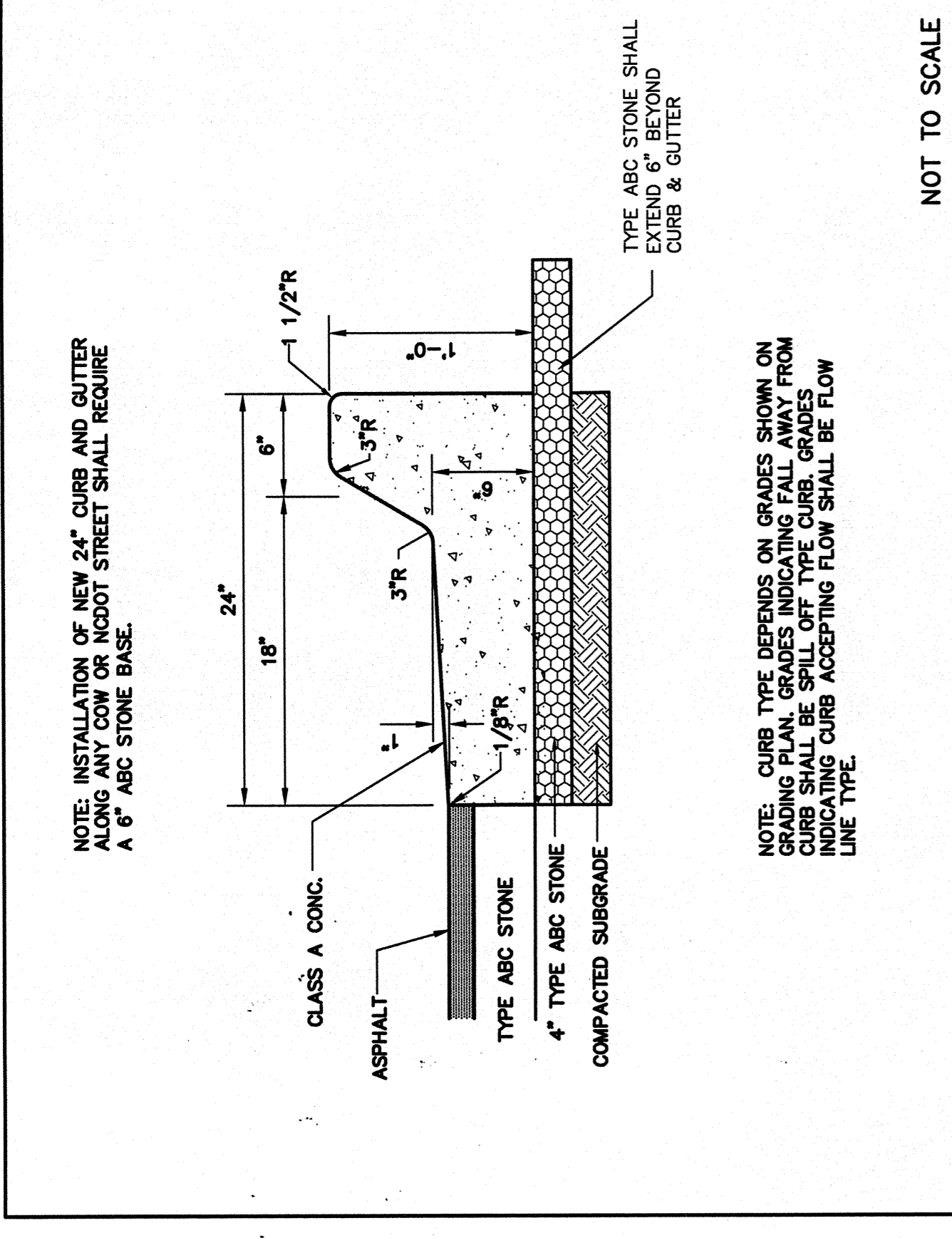
INDOOR PWS WATER PERMIT #:
WATER CAPACITY: _____ GPD
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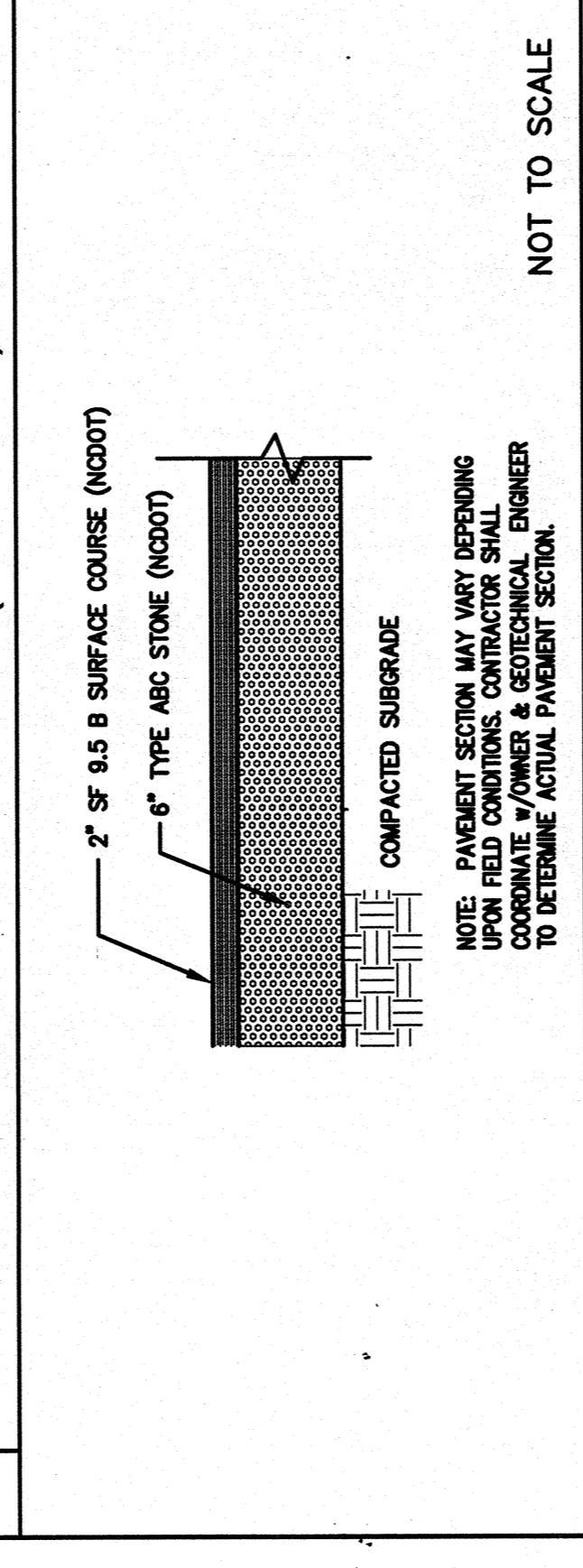
SCALE: 1" = 30'

LEGEND

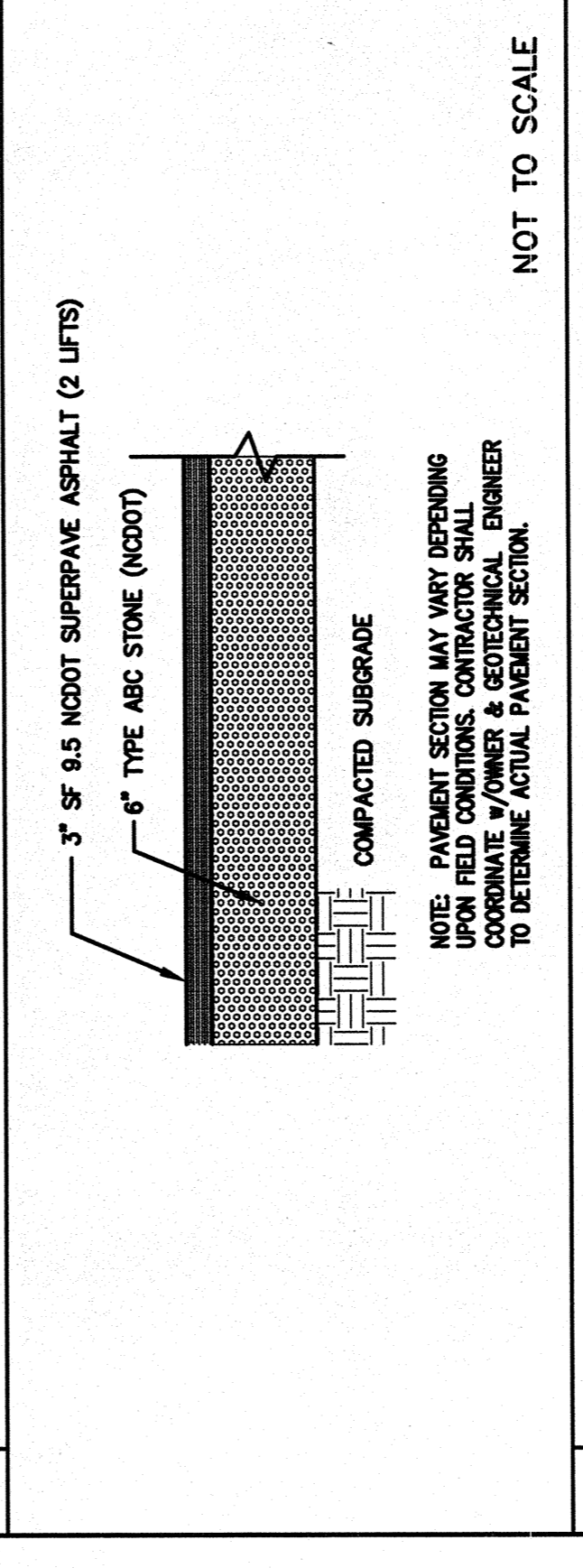
- LIGHT ASPHALT
- HEAVY ASPHALT
- CONCRETE
- SPECIALTY TILE OVER CONCRETE
- LANDSCAPED AREAS



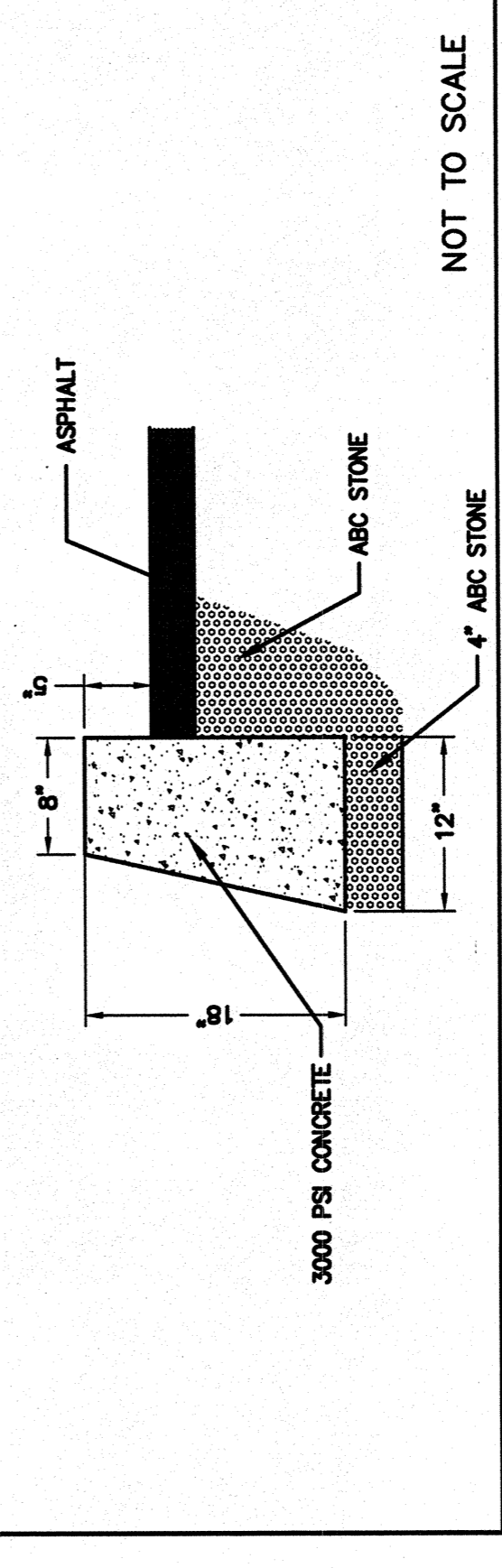
1 24" CURB AND GUTTER SECTION (SPILL-OFF) NOT TO SCALE



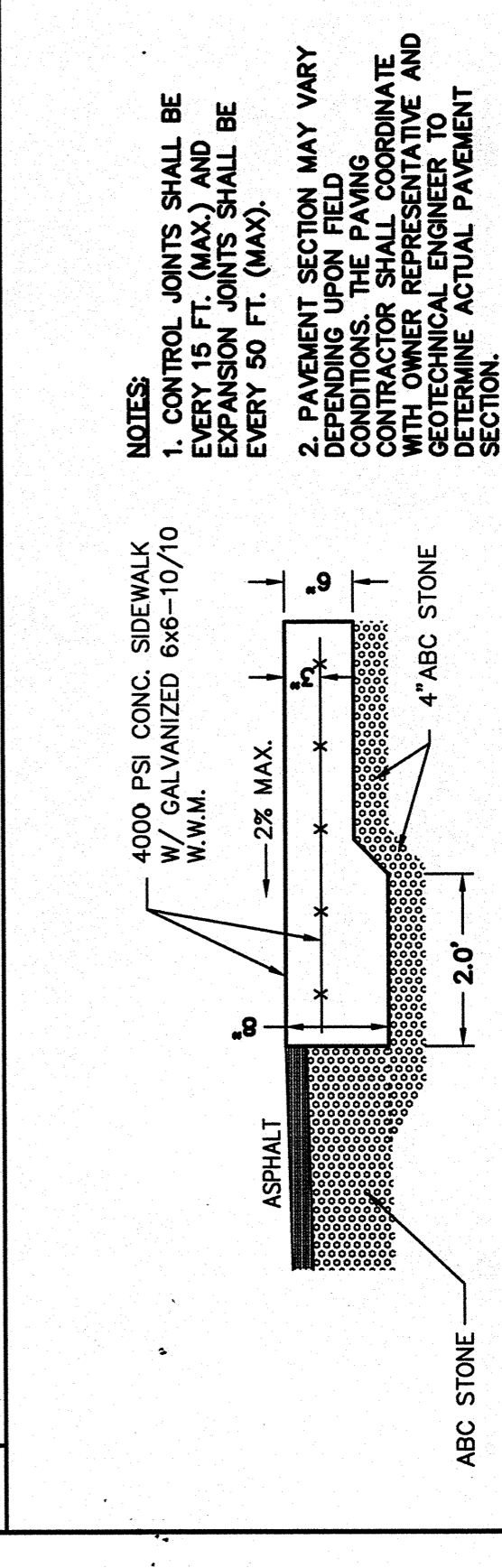
2 24" CURB AND GUTTER SECTION (FLOW-LINE) NOT TO SCALE



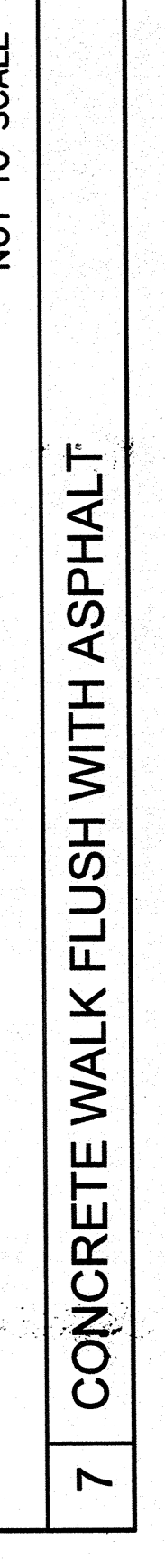
3 STANDARD SIDEWALK DETAIL: SD 3-10 NOT TO SCALE



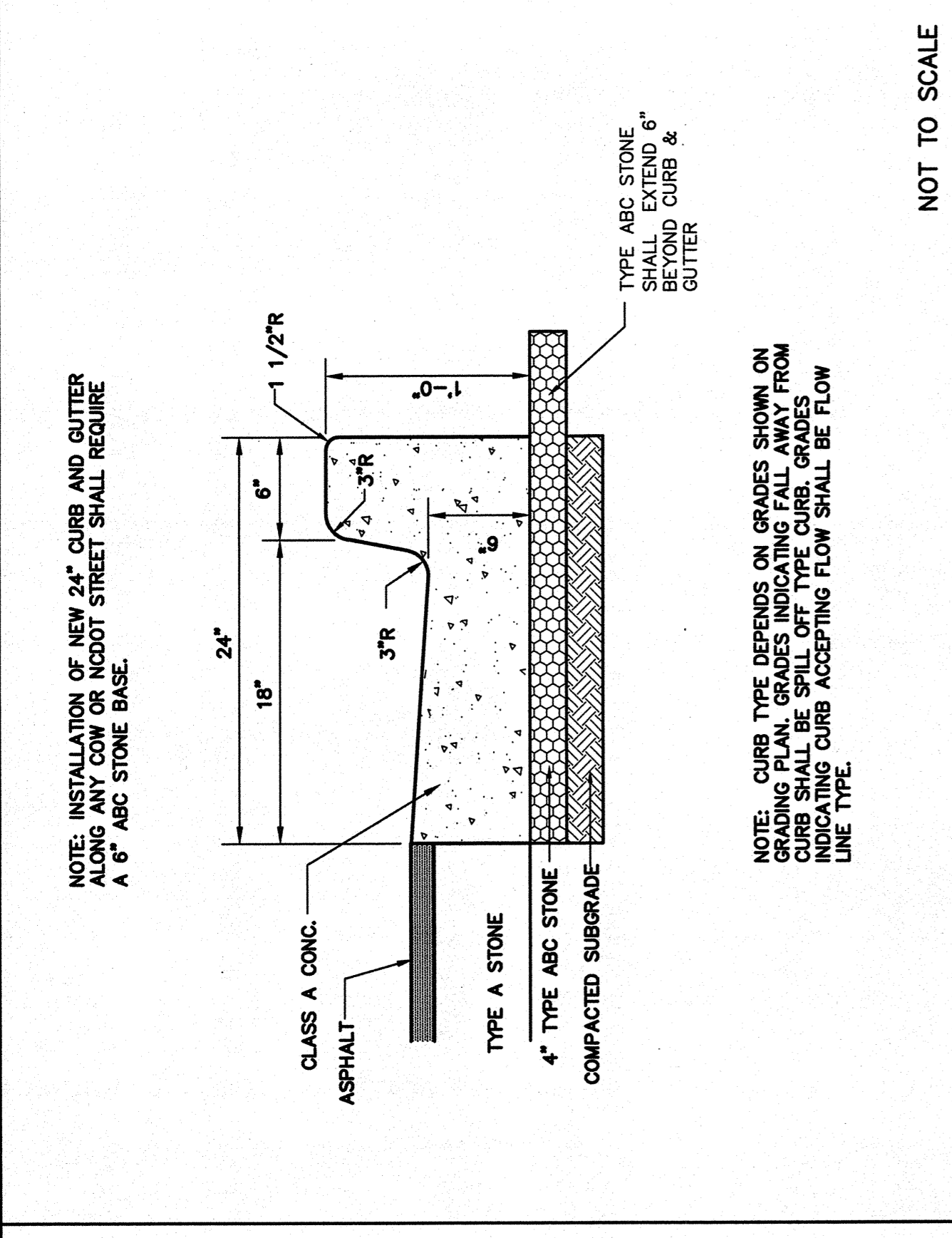
4 LIGHT DUTY ASPHALT PAVEMENT SECTION NOT TO SCALE



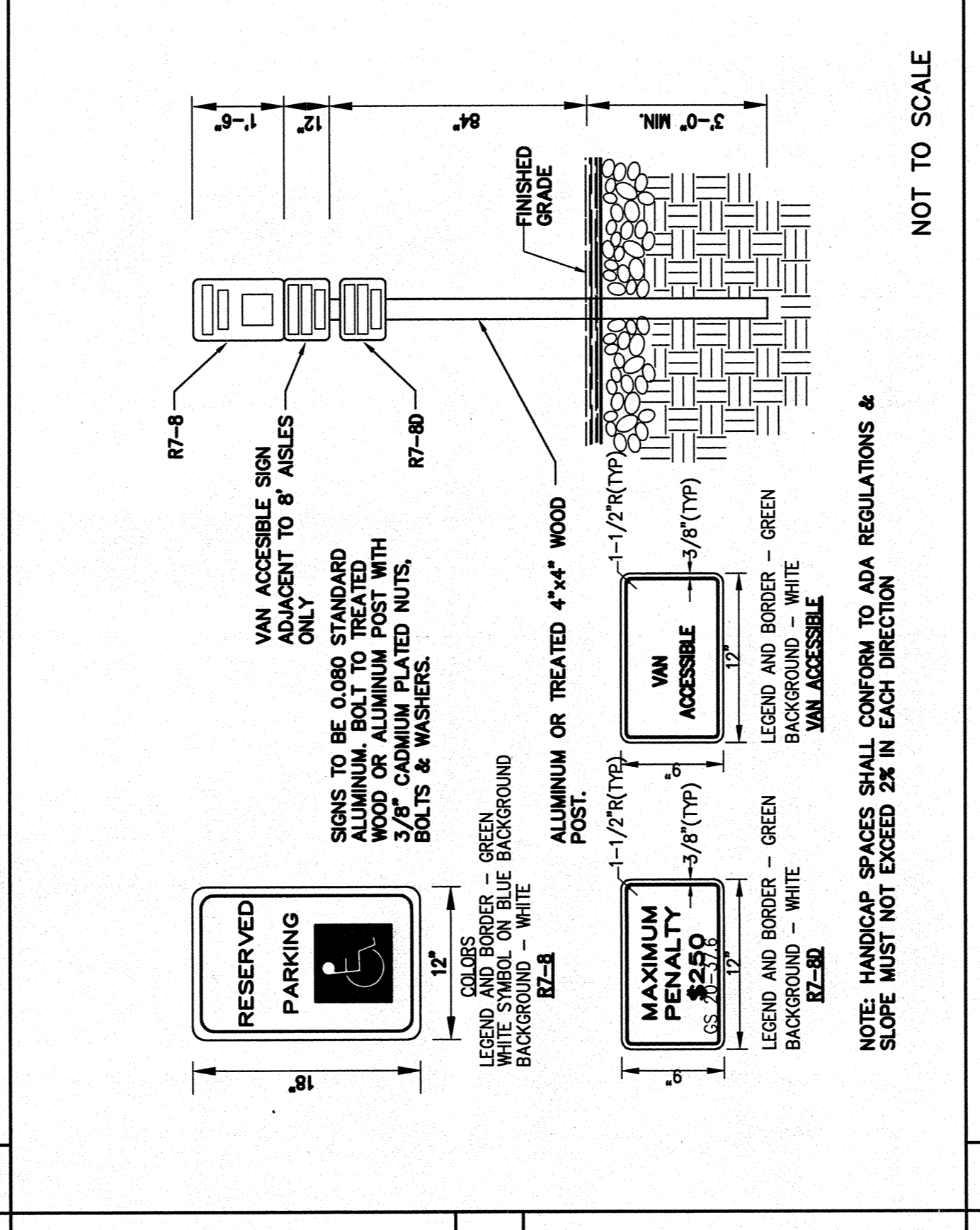
4 HEAVY DUTY ASPHALT PAVEMENT SECTION NOT TO SCALE



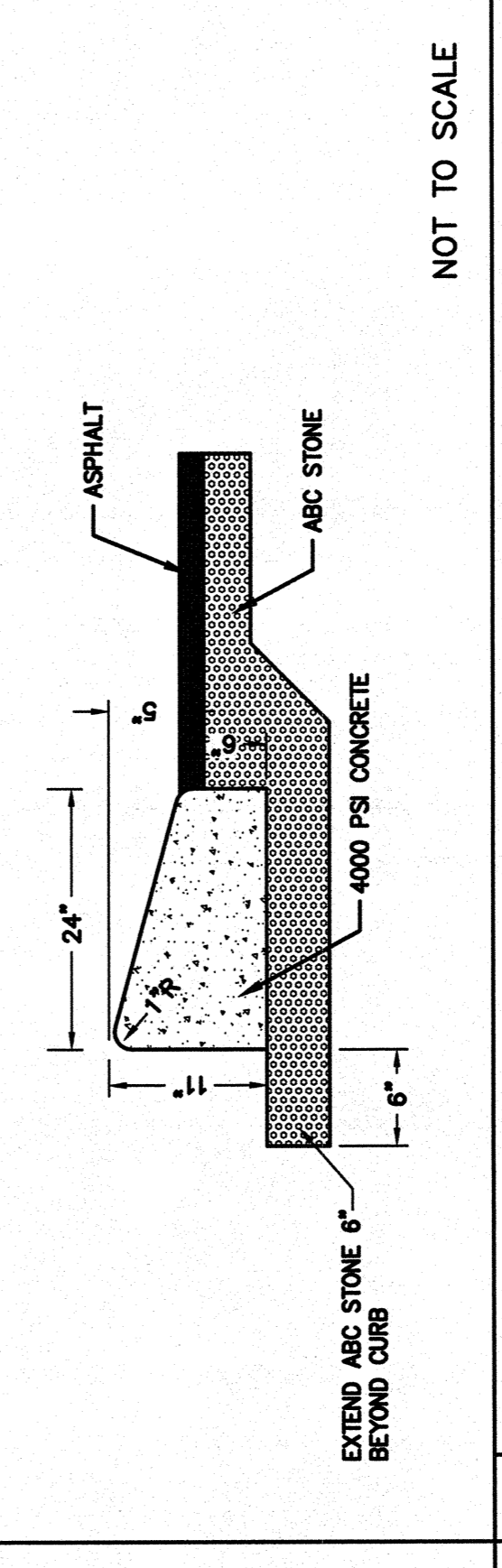
7 CONCRETE WALK FLUSH WITH ASPHALT NOT TO SCALE



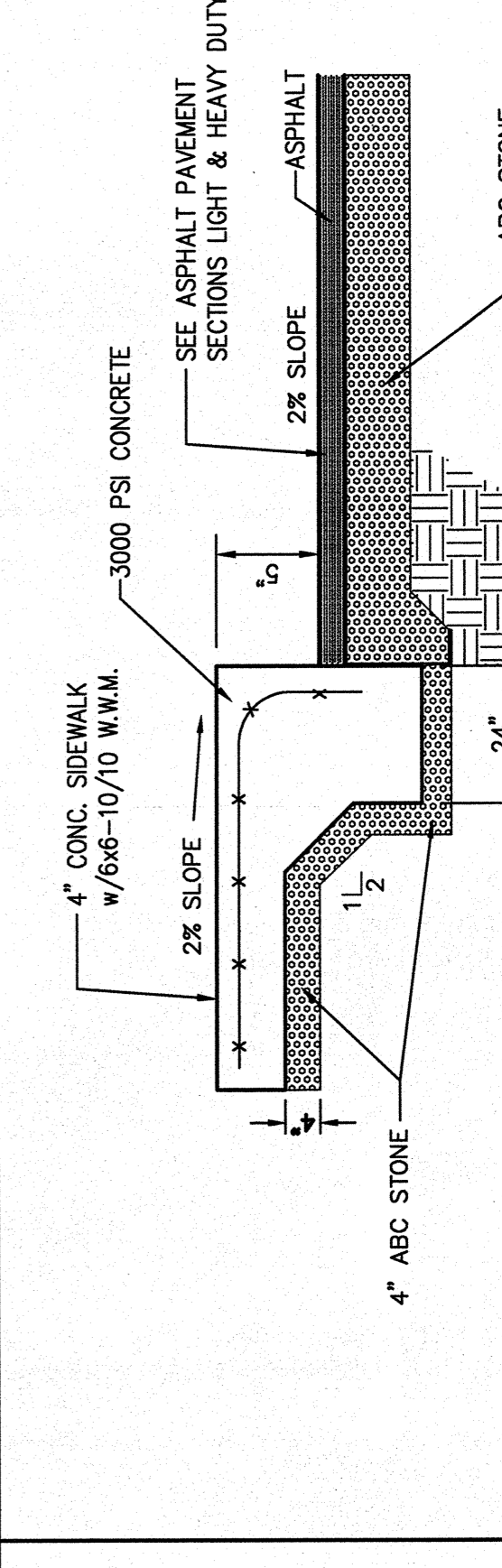
5 TYPICAL HANDICAPPED SIGN DETAIL NOT TO SCALE



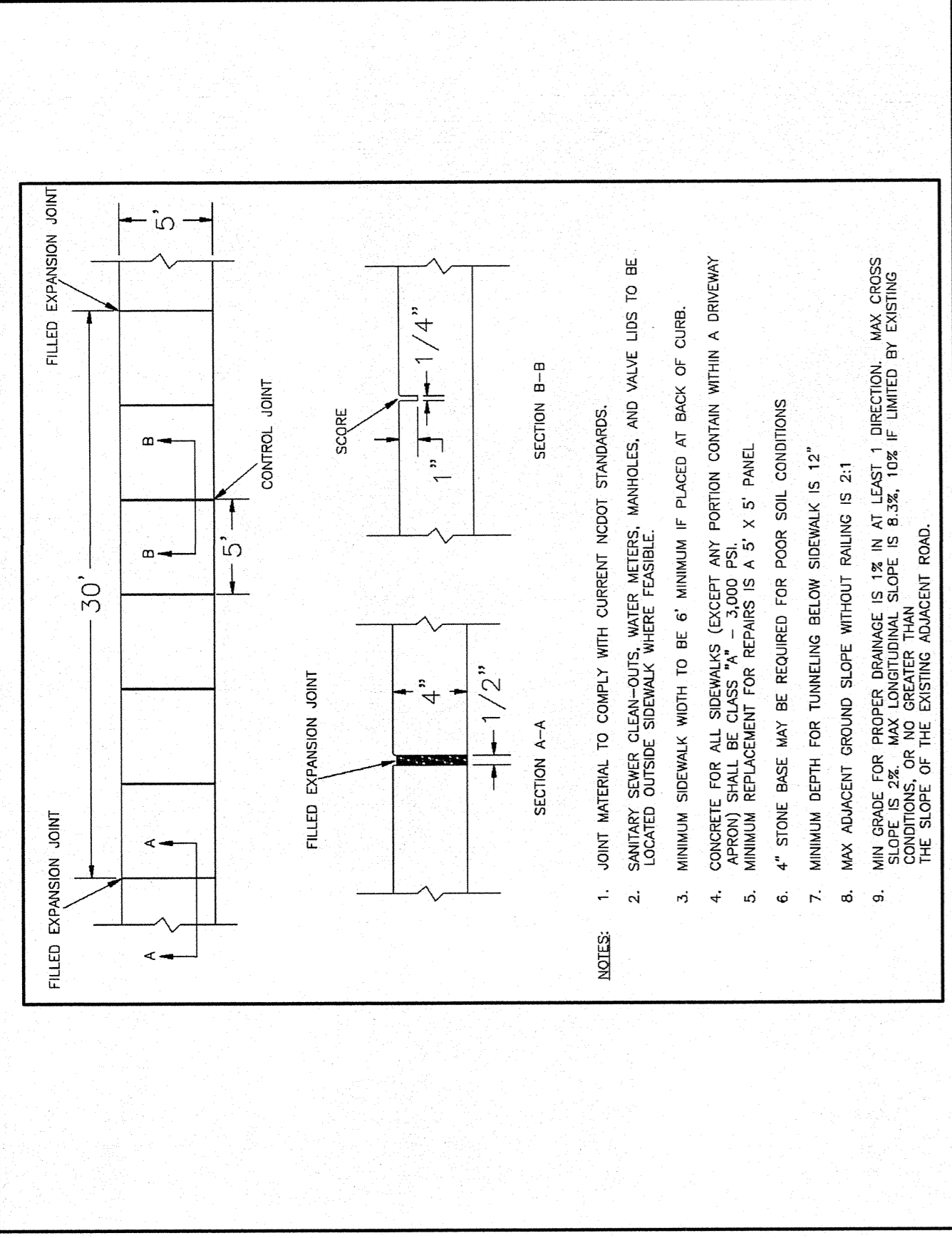
6 DROP INLET DETAIL NOT TO SCALE



8 SLOPE CURB SECTION NOT TO SCALE



9 TURN DOWN CURB SECTION NOT TO SCALE



10 HEAVY DUTY CONCRETE PAVEMENT SECTION NOT TO SCALE

NOTES:
 1. JOINT MATERIAL TO COMPLY WITH CURRENT NCDOT STANDARDS.
 2. SANITARY SEWER CLEAN-OUTS, WATER METERS, MANHOLES, AND VALVE LIDS TO BE LOCATED OUTSIDE SIDEWALK WHERE FEASIBLE.
 3. MINIMUM SIDEWALK WIDTH TO BE 6' MINIMUM IF PLACED AT BACK OF CURB.
 4. CONCRETE FOR ALL SIDEWALKS (EXCEPT ANY PORTION CONTAIN WITHIN A DRIVEWAY APPROX) SHALL BE CLASS "A" - 3000 PSI.
 5. MINIMUM REPLACEMENT FOR REPAIRS IS A 5' X 5' PANEL.
 6. 4" STONE BASE MAY BE REQUIRED FOR POOR SOIL CONDITIONS.
 7. MINIMUM DEPTH FOR TUNNELING BELOW SIDEWALK IS 12".
 8. MAX ADJACENT GROUND SLOPE WITHOUT RAILING IS 2:1.
 9. MIN GRADE FOR PROPER DRAINAGE IS 1% IN AT LEAST 1' DIRECTION. MAX CROSS SLOPE SHALL BE 0.5% IN AT LEAST 1' DIRECTION. MIN GRADE SHALL BE 0.2% IN AT LEAST 1' DIRECTION. THE SLOPE OF THE EXISTING ADJACENT ROAD.

DEVELOPER
 BAKER MOTOR COMPANY, LLC
 4920 NEW CENTRE DRIVE
 WILMINGTON, NC 28403
 910 624-6060

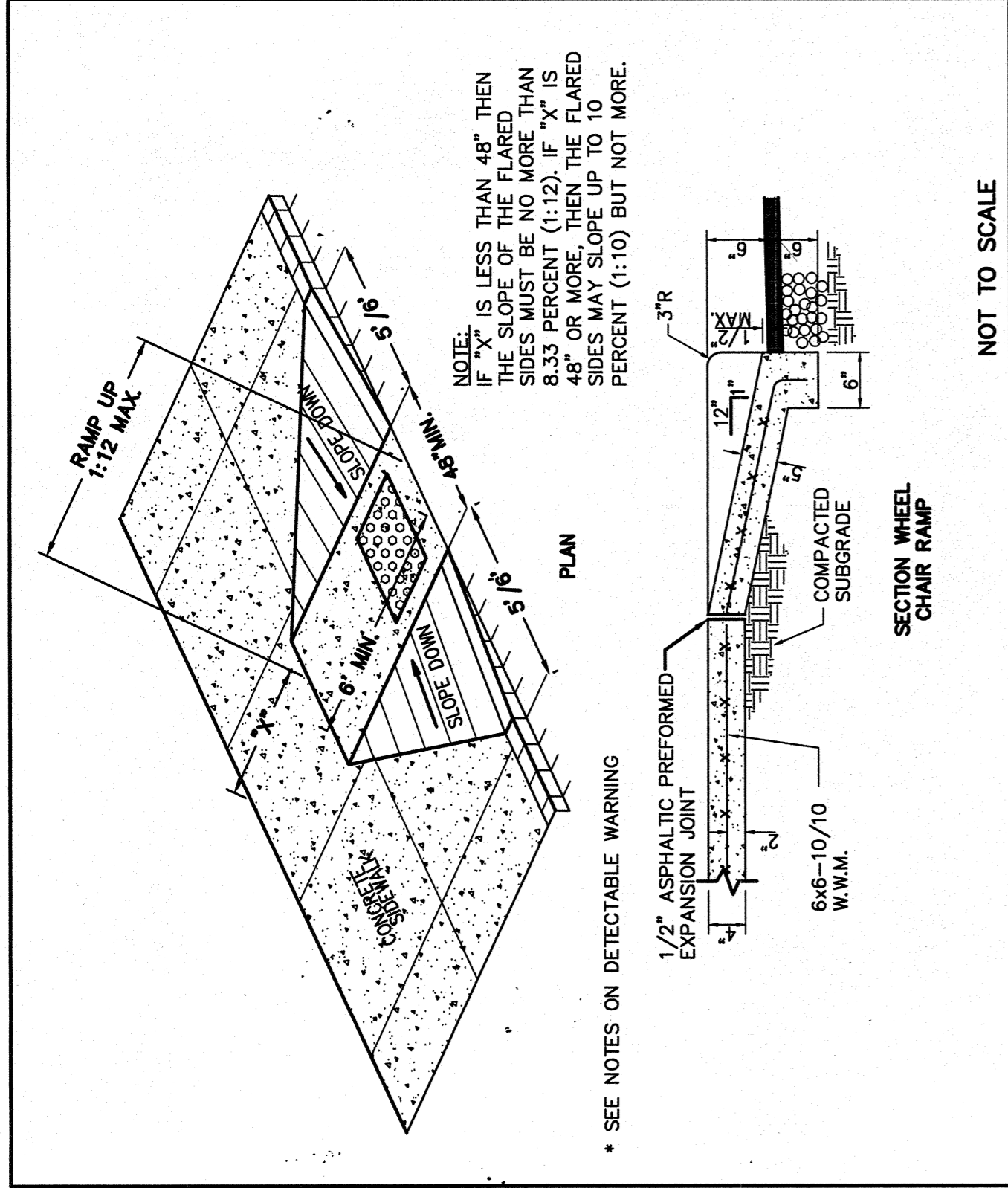
NORRIS & TUNSTALL
 CONSULTING ENGINEERS P.C.
 1429 ASH-LITTLE RIVER RD., NW
 ASH, NC 28420
 PHONE (910) 287-9500

UTILITY NOTES FOR FIRE HYDRANTS:
 1. FIRE HYDRANTS MUST BE WITHIN 150' OF THE FIRE DEPARTMENT CONNECTION. DEPARTMENT CONNECTION MUST BE WITHIN 40' OF FIRE HYDRANT PLACEMENT.
 2. LANDSCAPING AND PARKING CANNOT BLOCK OR IMPED 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.
 3. FIRE HYDRANTS MUST BE LOCATED WITHIN 8' OF THE CURB.
 4. NEW HYDRANTS MUST BE AVAILABLE FOR USE PRIOR TO CONSTRUCTION OF THE BUILDINGS.
 5. COMBUSTIBLE MATERIALS BEING DELIVERED TO THE JOB SHALL BE SUCCESS FOR EMERGENCY VEHICLES AT ALL TIMES DURING CONSTRUCTION.
 6. TEMPORARY STREET SIGNS SHALL BE INSTALLED AT EACH STREET INTERSECTION WHEN CONSTRUCTION OF NEW ROADWAYS ALLOWS PASSAGE BY VEHICLES.
 7. 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 FOR ADDITIONAL INFORMATION. 910-343-0868.
 8. A MINIMUM OF 5' SHALL SEPARATE UNDERGROUND FIRE LINES OR PRIVATE WATER MAINS FROM OTHER UNDERGROUND UTILITIES.
 9. HYDRANTS SHALL BE OF SUFFICIENT NUMBERS TO ACCOMMODATE BASE FIRE FLOW REQUIREMENTS OF THE STRUCTURE.
 10. BUILDING CONSTRUCTION TYPE: VB

16038
 License #C-3641
 JST
 JPN
 MKS
 DATE 2/1/17

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 SYMBOL DATE DESCRIPTION BY
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NOTES AND DETAILS
 BAKER BMW OF WILMINGTON
 4900 NEW CENTER DRIVE
 WILMINGTON, N. C.

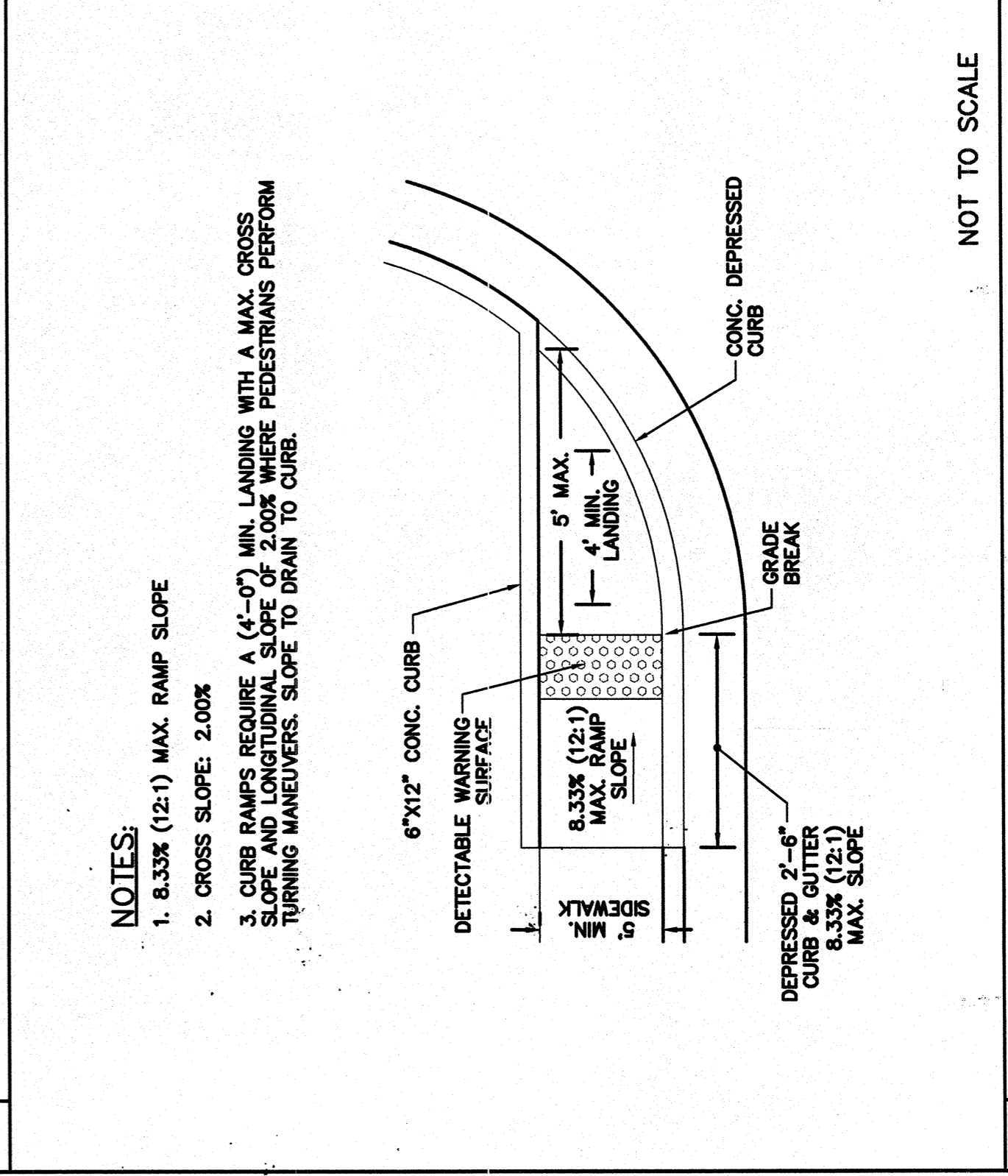


1 SIDEWALK, CURB CUT AND WHEEL CHAIR RAMP DETAIL

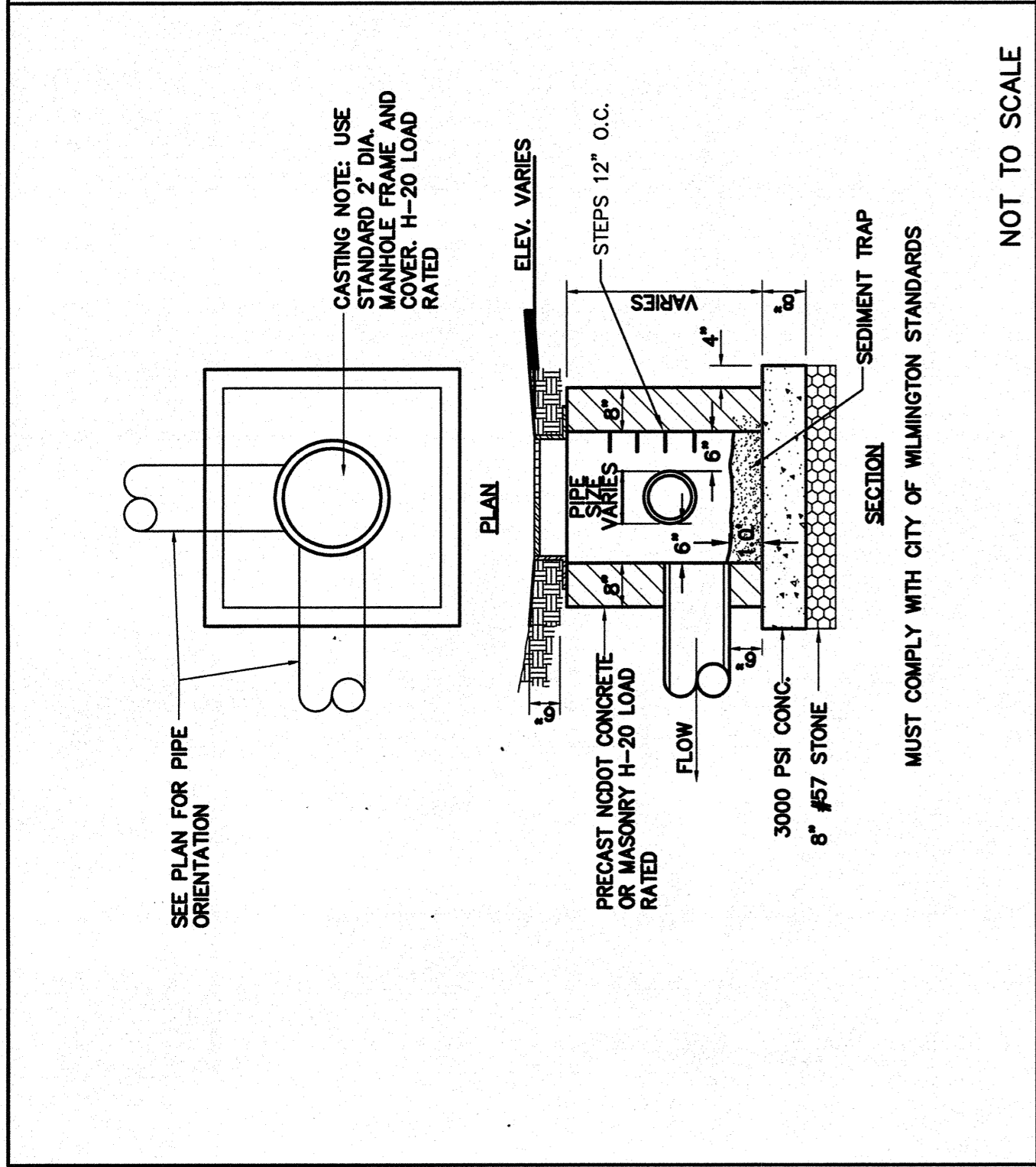
NOT TO SCALE

NOTE:
 1. RAMP SHALL HAVE A DETECTABLE WARNING COMPLYING WITH ADA GUIDELINES.
 2. THE DETECTABLE WARNINGS AT CURB RAMPS SHALL BE 24 INCHES MINIMUM IN THE DIRECTION OF TRAVEL AND EXTEND THE FULL WIDTH OF THE CURB RAMP OR FLUSH SURFACE.
 3. MARKED CROSSINGS THAT ARE RAISED TO THE SAME LEVEL AS THE ADJOINING SIDEWALK SHALL BE PRECEDED BY A 24 INCH DEEP DETECTABLE WARNING EXTENDING THE FULL WIDTH OF THE MARKED CROSSING.
 4. DETECTABLE WARNINGS SHALL CONSIST OF RAISED TRUNCATED DOMES WITH A DIAMETER OF NOMINAL 0.9 IN (23 MM) HEIGHT OF NOMINAL 0.2 IN (5 MM) AND A CENTER-TO-CENTER SPACING OF NOMINAL 2.35 IN (60 MM) AND SHALL CONTRAST VISUALLY WITH ADJOINING SURFACES, EITHER LIGHT-ON-DARK, OR DARK-ON-LIGHT. THE MATERIAL USED TO PROVIDE CONTRAST SHOULD CONTRAST BY AT LEAST 70% - REFER TO ADA GUIDELINES FOR DEFINITION OF "CONTRAST".
 5. THE MATERIAL USED TO PROVIDE CONTRAST SHALL BE AN INTEGRAL PART OF THE WALKING SURFACE. DETECTABLE WARNINGS USED ON INTERIOR SURFACES SHALL DIFFER FROM ADJOINING WALKING SURFACES IN RESILIENCY OR SOUND-ON-CANE CONTACT.

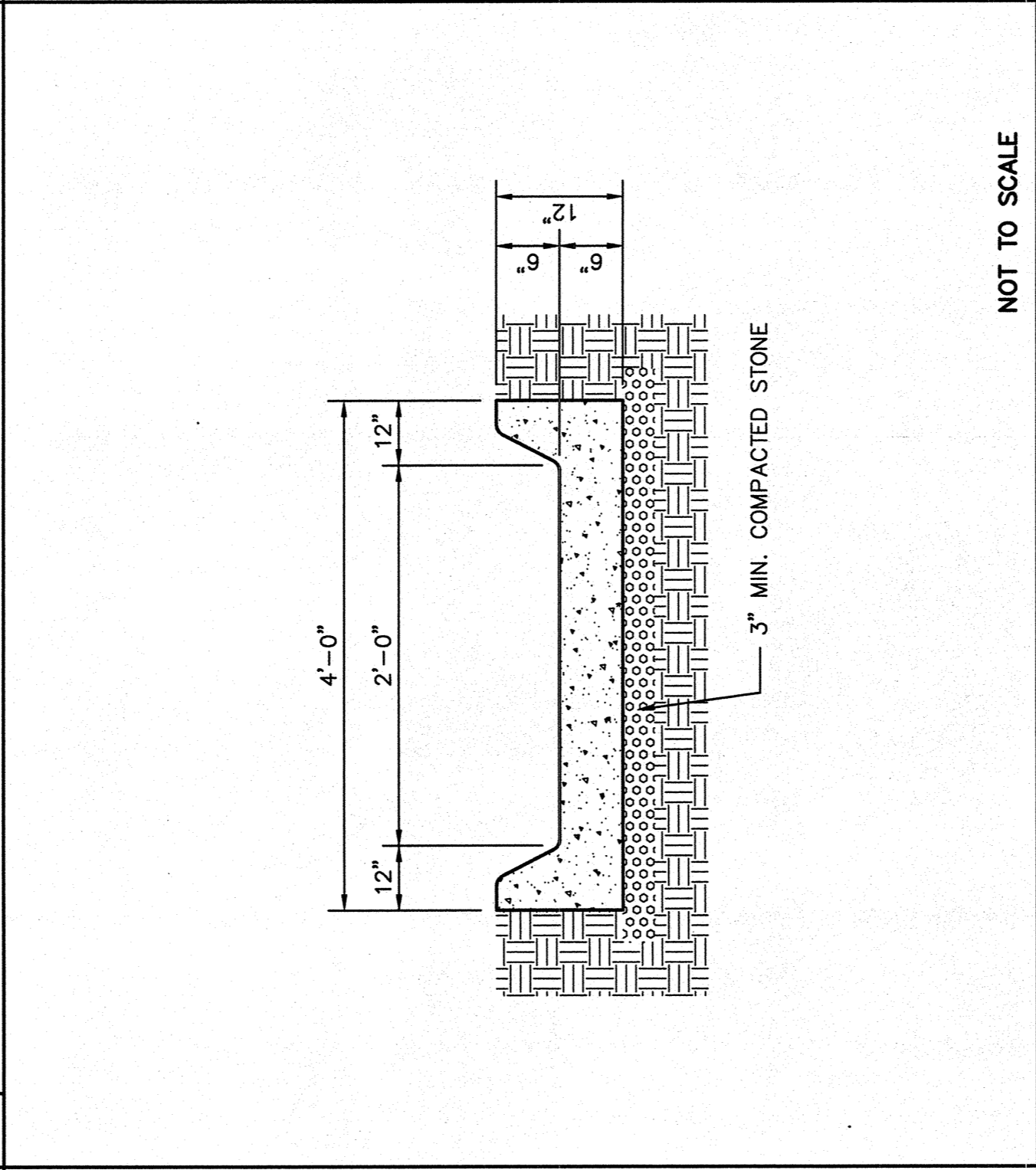
4 NOTES ON DETECTABLE WARNING FOR WHEEL CHAIR RAMPS



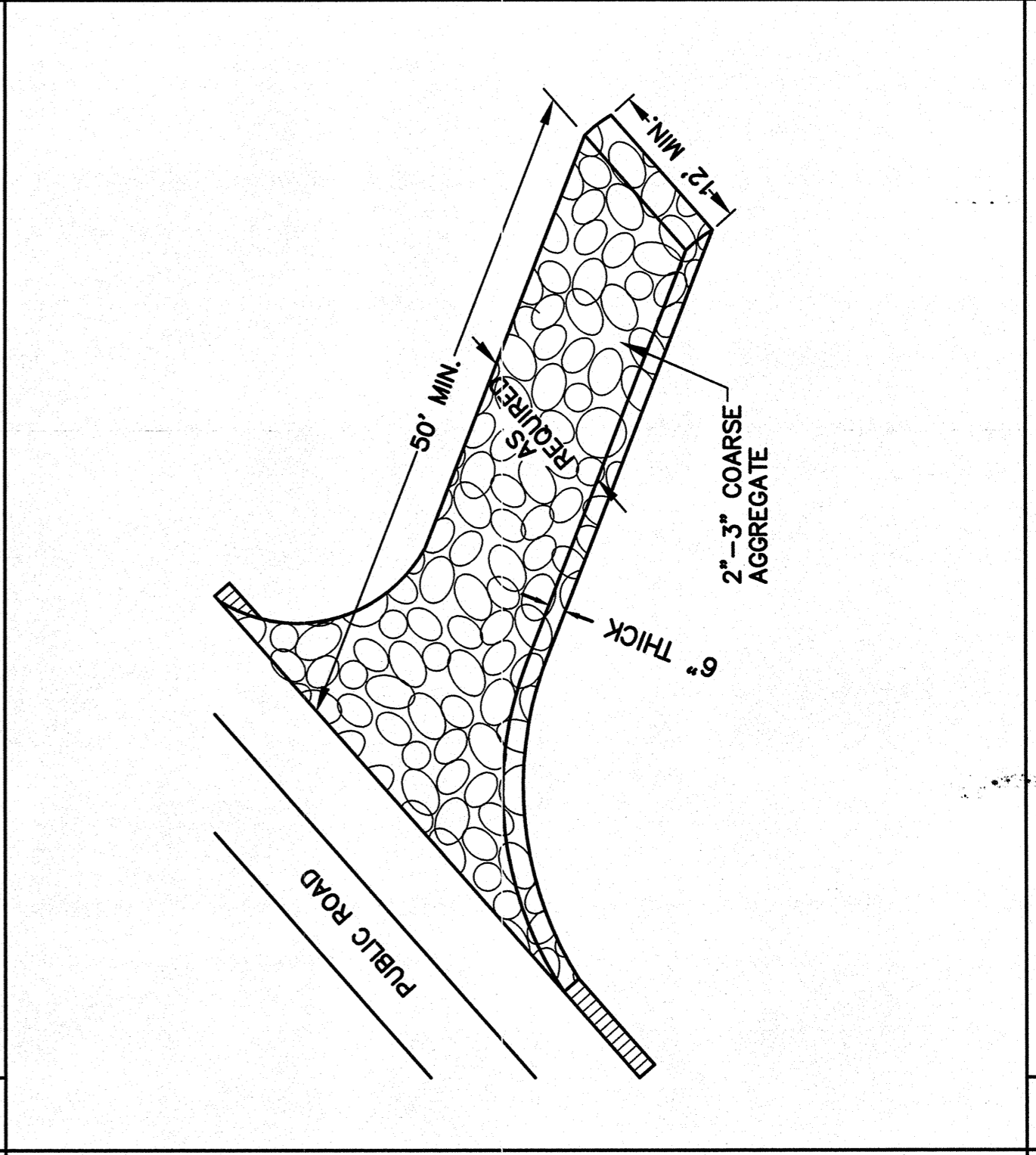
6 NCDOT TYPE 1 CURB RAMP



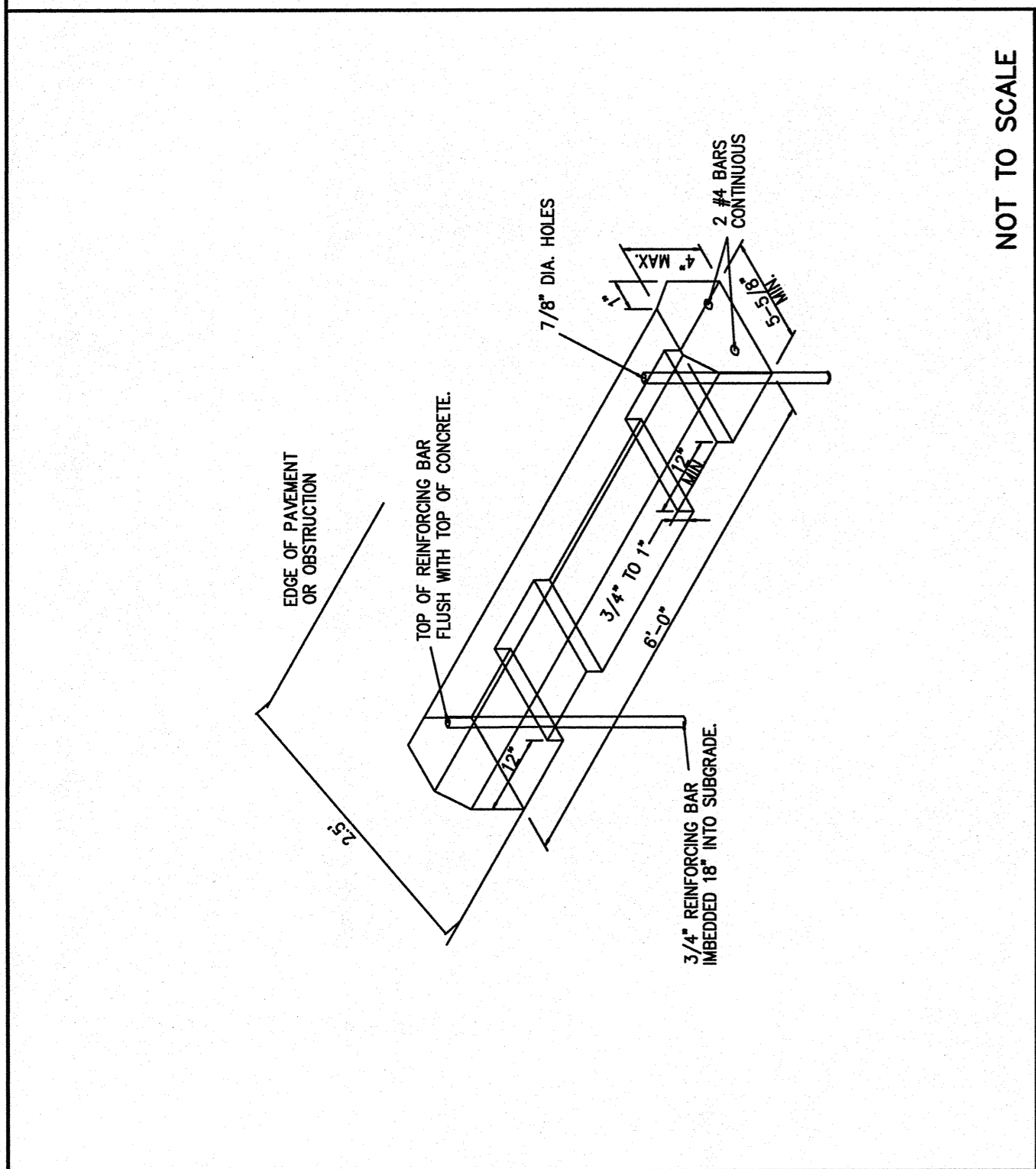
2 JUNCTION BOX DETAIL



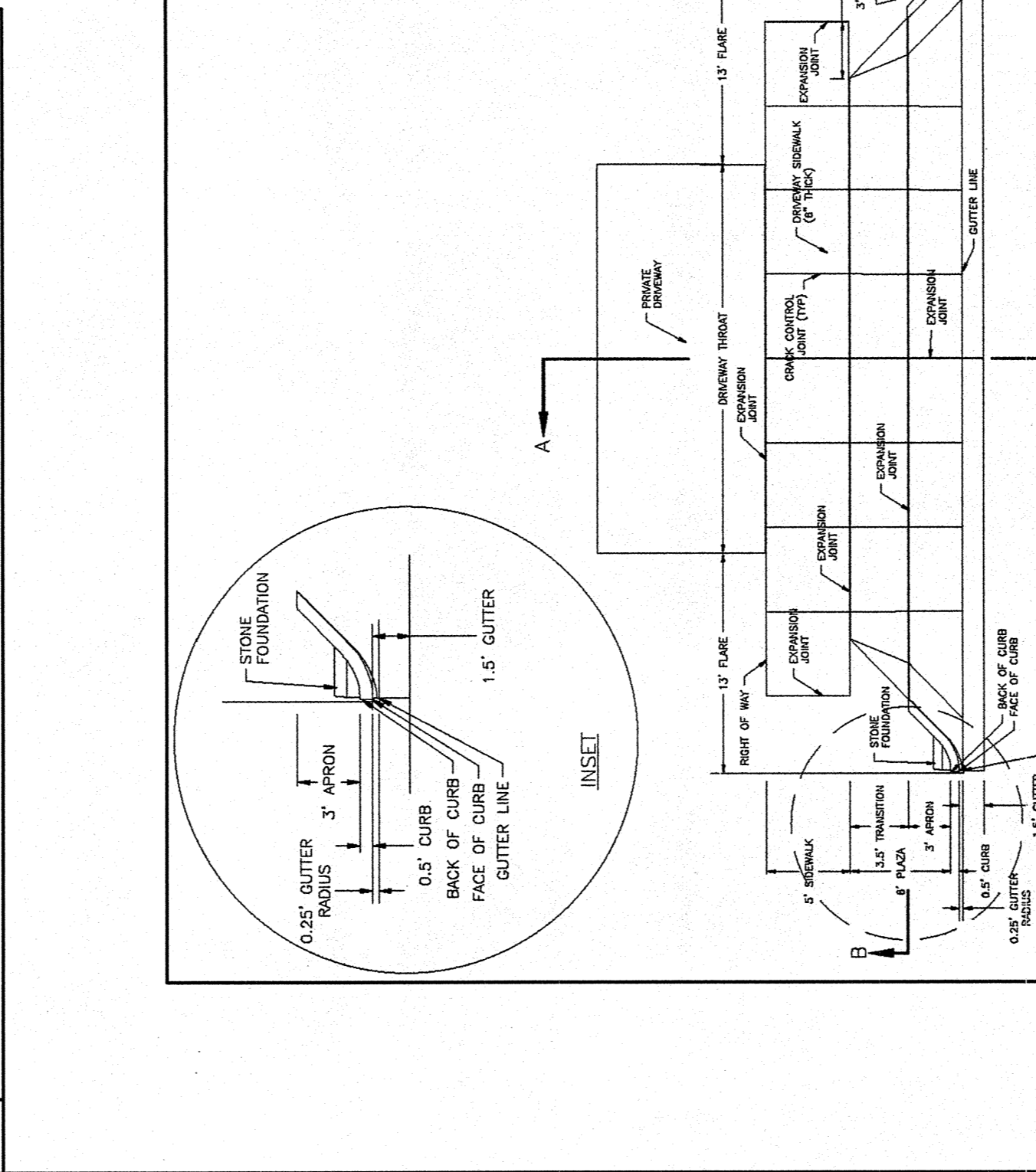
5 CONCRETE FLUME SECTION



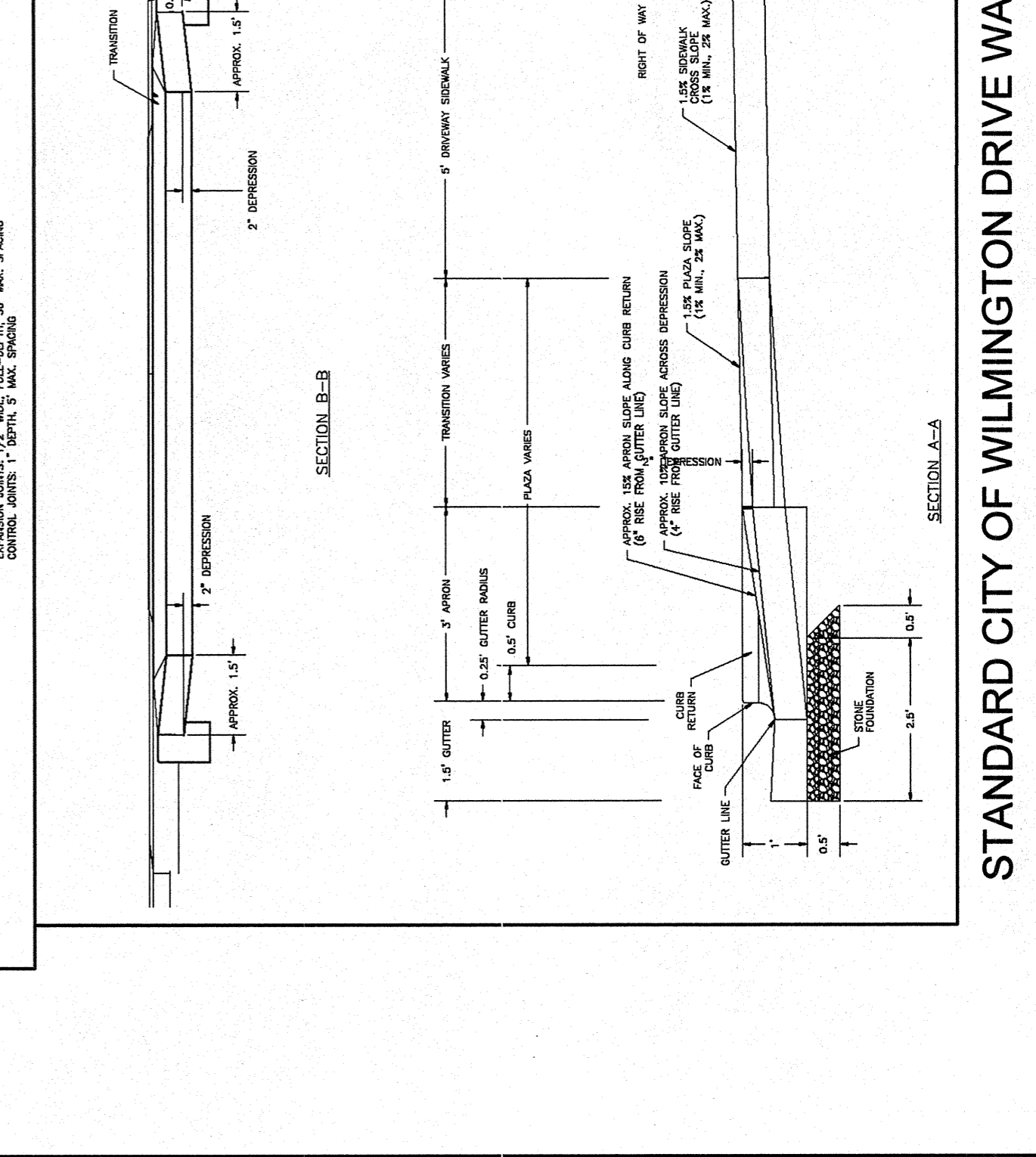
7 TEMPORARY GRAVELLED CONSTRUCTION ENTRANCE



3 CONCRETE WHEEL STOPS



5 CONCRETE FLUME SECTION



7 TEMPORARY GRAVELLED CONSTRUCTION ENTRANCE

NOTES AND DETAILS
 BAKER BMW OF WILMINGTON
 4900 NEW CENTER DRIVE
 WILMINGTON, N. C.

DEVELOPER
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 DES. JST
 C.D. JPN
 DRWL. NKS
 DATE 2/1/17

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WILMINGTON
 Public Services • Engineering Division
 APPROVED STORMWATER MANAGEMENT PLAN

Date: _____ Permit # _____
 Signed: _____
 Approved Construction Plan

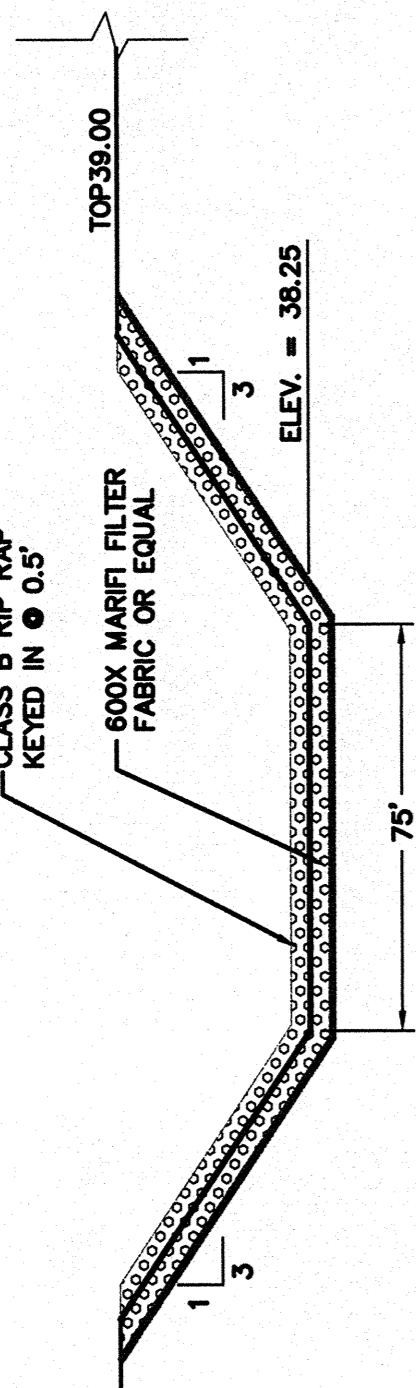
SYMBOL	DATE	DESCRIPTION	BY
		REVISIONS	

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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.

STANDARD CITY OF WILMINGTON DRIVE WAY DETAIL



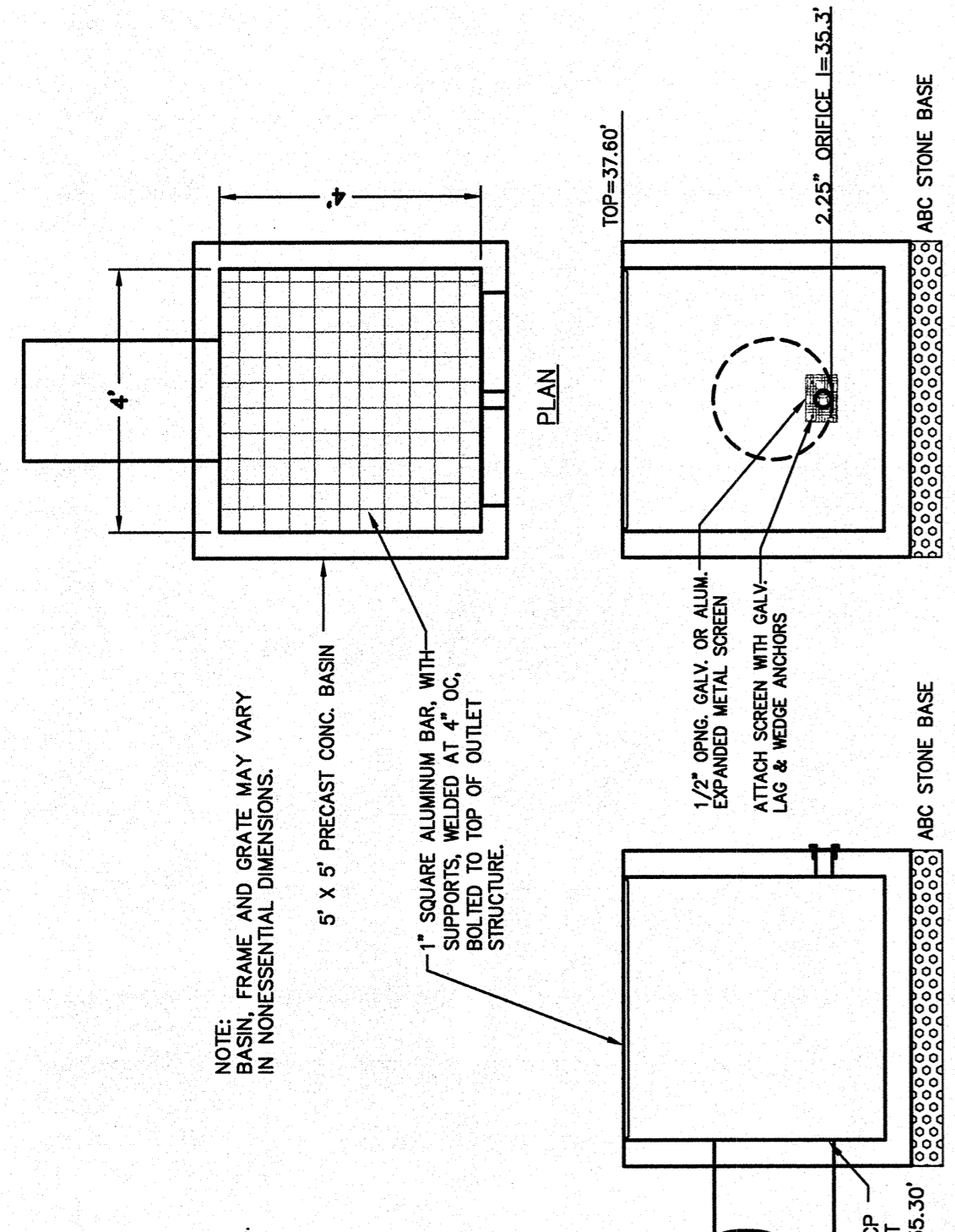
NOT TO SCALE

1 EMERGENCY SPILLWAY DETAIL

DETENTION POND NOTES:

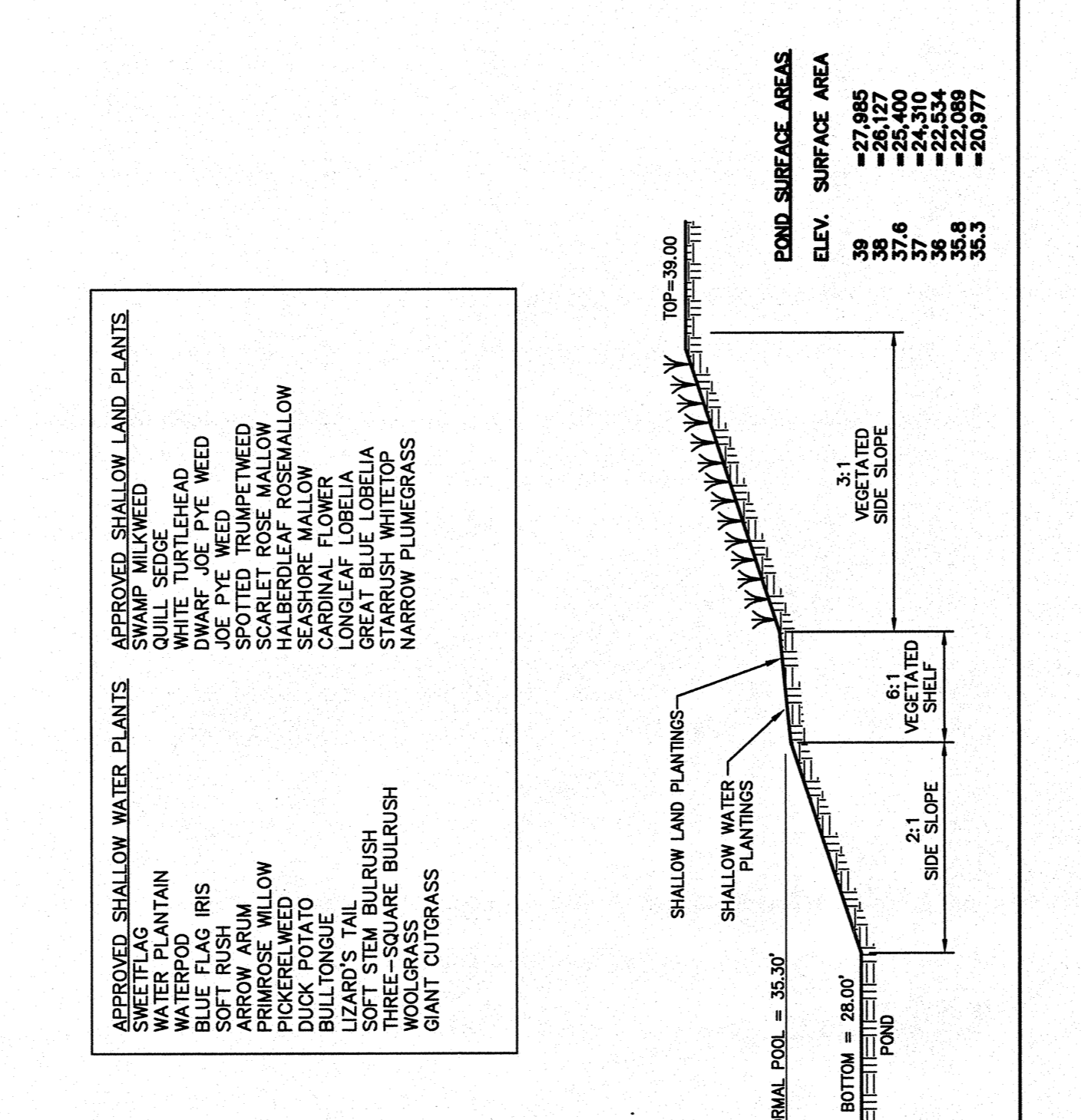
- UPON STABILIZATION OF SITE, RESTORE POND TO DESIGN SIZE AND SHAPE.
- INSTALL TOPSOIL ON SIDE SLOPES ABOVE NORMAL POOL AND SEED WITH A MIX OF 50% CARPET GRASS, 25% BERBERIDA, 20% PERENNIAL BENT GRASS, AND 24% RYE SEED AT A RATE OF 2-3 TONS PER 1000 SF.
- VEGETATED SHELF: THE CONTRACTOR SHALL INSTALL EQUAL NUMBERS OF THE LISTED SUITABLE SPECIES. GROUP SIMILAR SPECIES OF PLANTS TOGETHER (APPROX. 24" - 36" O.C. IN A CHECKERBOARD PATTERN). NO PLANTS SHALL BE PLANTED WITHIN 10 FEET OF THE OUTLET STRUCTURE.
- BOTTOM HALF OF VEGETATED SHELF SHALL BE PLANTED WITH SHALLOW WATER PLANT SPECIES. A MINIMUM OF (3) DIVERSE SPECIES, SEE TABLE.
- TOP HALF OF VEGETATED SHELF SHALL BE PLANTED WITH SHALLOW LAND PLANT SPECIES. A MINIMUM OF (3) DIVERSE SPECIES, SEE TABLE.
- THE VEGETATED SHELF SHALL BE PLANTED WITH RILDS OR POTS (MIN. 2 CU IN.) AT 24" - 36" O.C. IN A CHECKERBOARD PATTERN. A MINIMUM OF 50 PLANTS PER 200 SF OF SHELF AREA SHALL BE PLANTED.
- THE VEGETATED SHELF IS ABOVE THE PERMANENT POOL ELEVATION. THE DRAINAGE EQUATION WAS USED IN THE CALCULATIONS TO DETERMINE THE AMOUNT OF INFLOW FROM THE ELEVATED SHELF. THE POND OUTLET STRUCTURE IS SIZED FOR THE EXTRA INFLOW PER NODEQ RULES.

- | | |
|-------------------------------|------------------------------|
| APPROVED SHALLOW WATER PLANTS | APPROVED SHALLOW LAND PLANTS |
| SWEET FLAG | SWAMP MILKWEED |
| WATER PLANTAIN | QUILL SEED HEAD |
| BLUE FLAG IRIS | DWARF JOE PYE WEED |
| SOFT RUSH | JOE PYE WEED |
| ARROW ARUM | SPOTTED TRUMPETWEED |
| PICKERELWEED | HALBERDLEAF ROSEMARY |
| DUCK POTATO | SEASHORE MALLOW |
| BULLTONGUE | CARDINAL FLOWER |
| THREE-SQUARE BULRUSH | GREAT BLUE LOBELIA |
| WOOLGRASS | STARRUSH WHITE TOP |
| GIANT CUTGRASS | NARROW PLUMEGRASS |



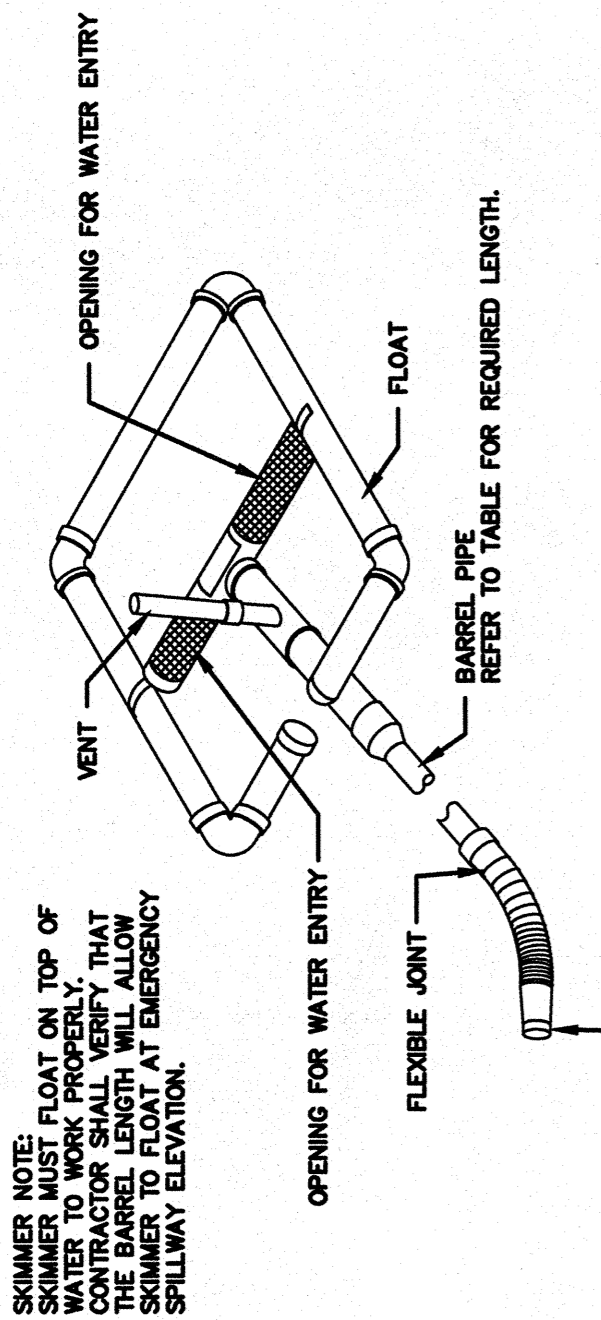
NOT TO SCALE

2 DETENTION POND OUTLET STRUCTURE



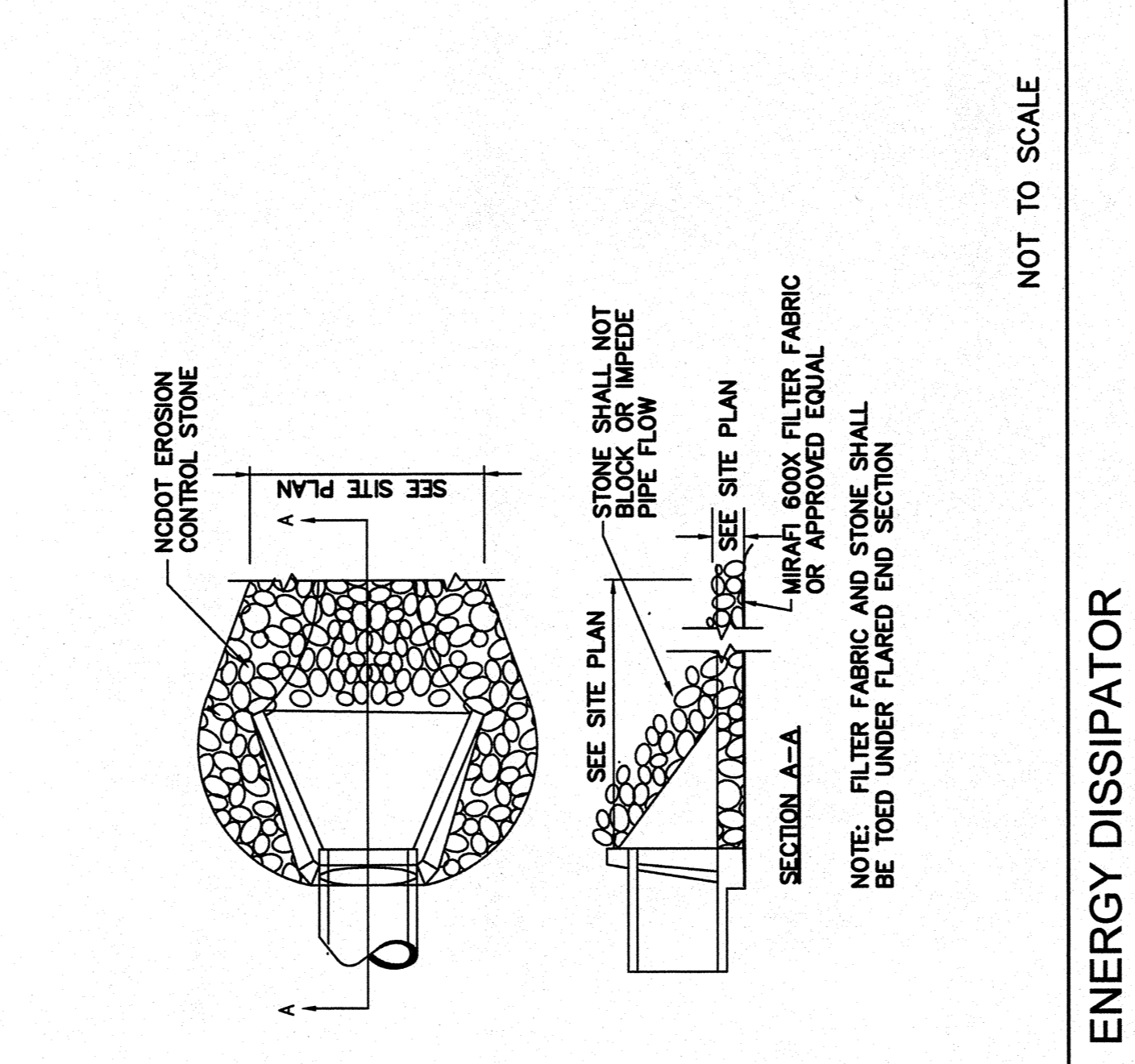
NOT TO SCALE

6 ENERGY DISSIPATOR



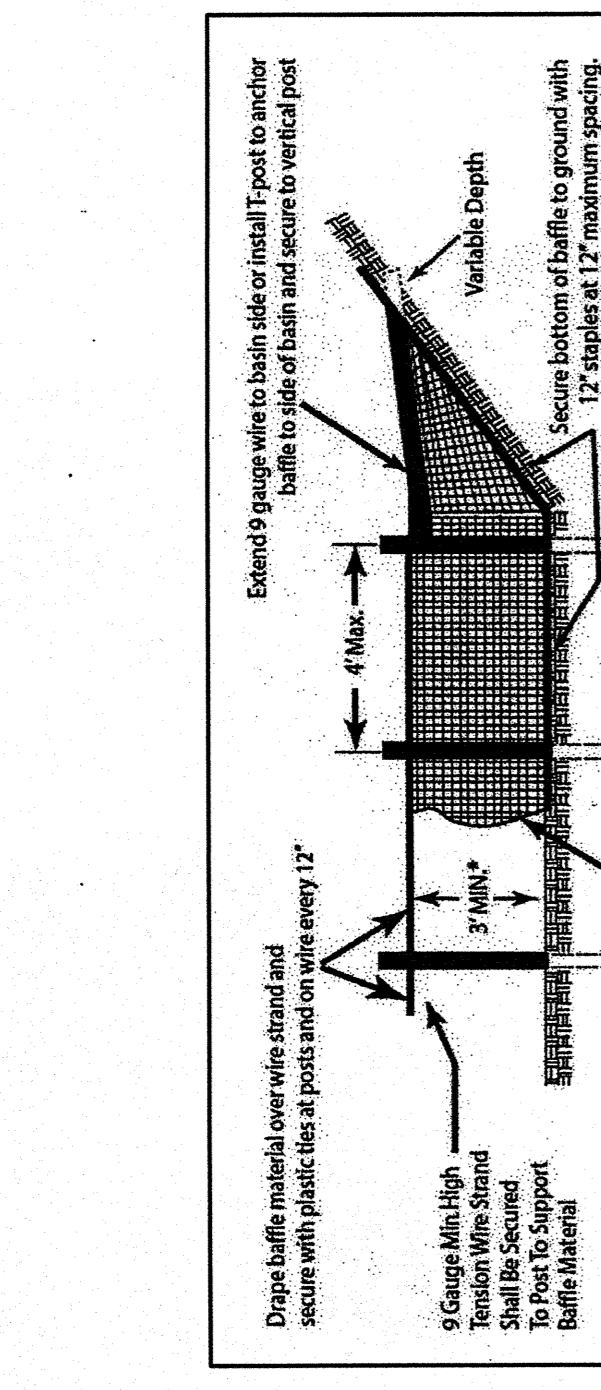
NOT TO SCALE

3 STANDARD SKIMMER DETAIL (FAIRCLOTH)



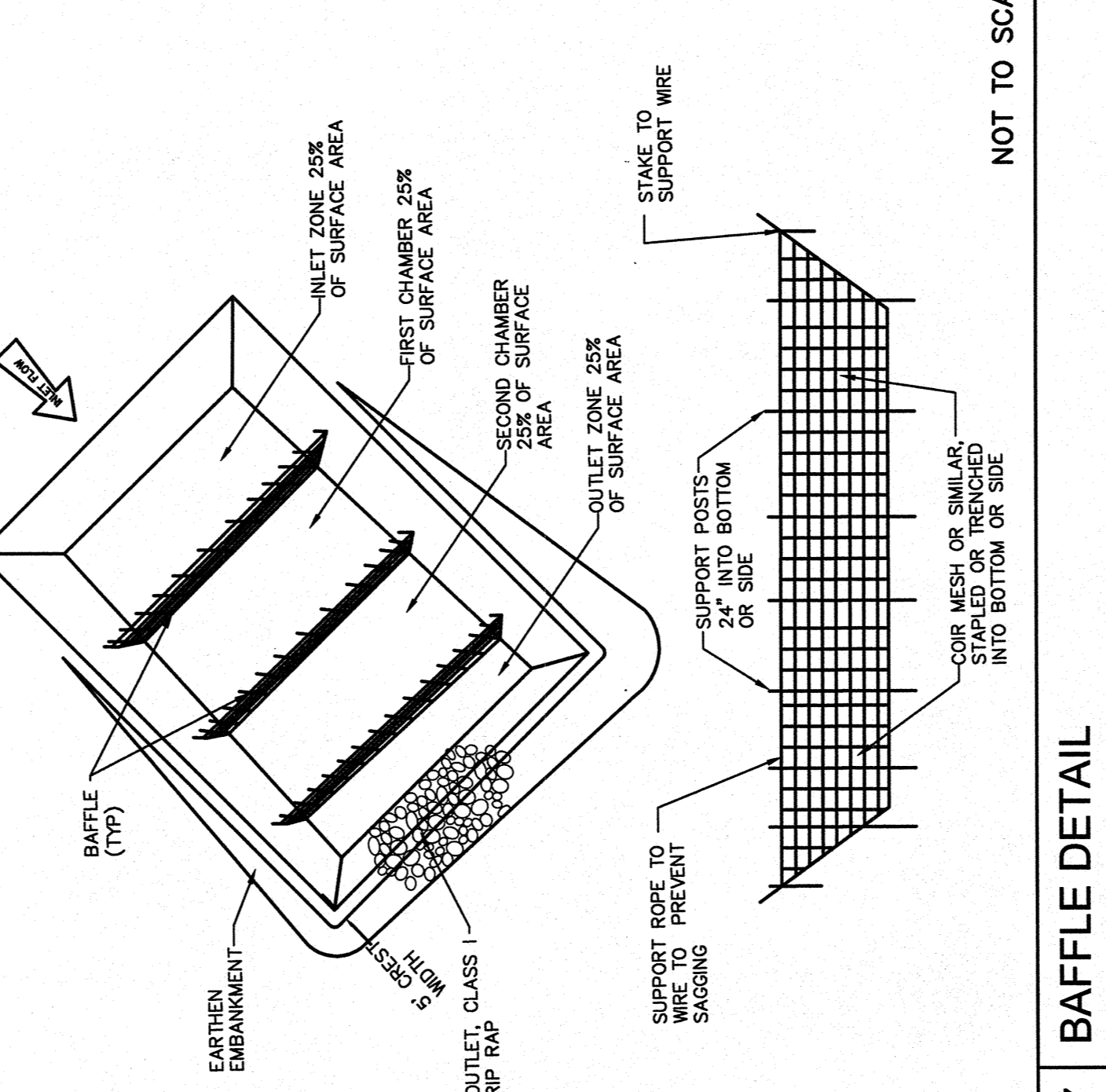
NOT TO SCALE

7 BAFFLE DETAIL



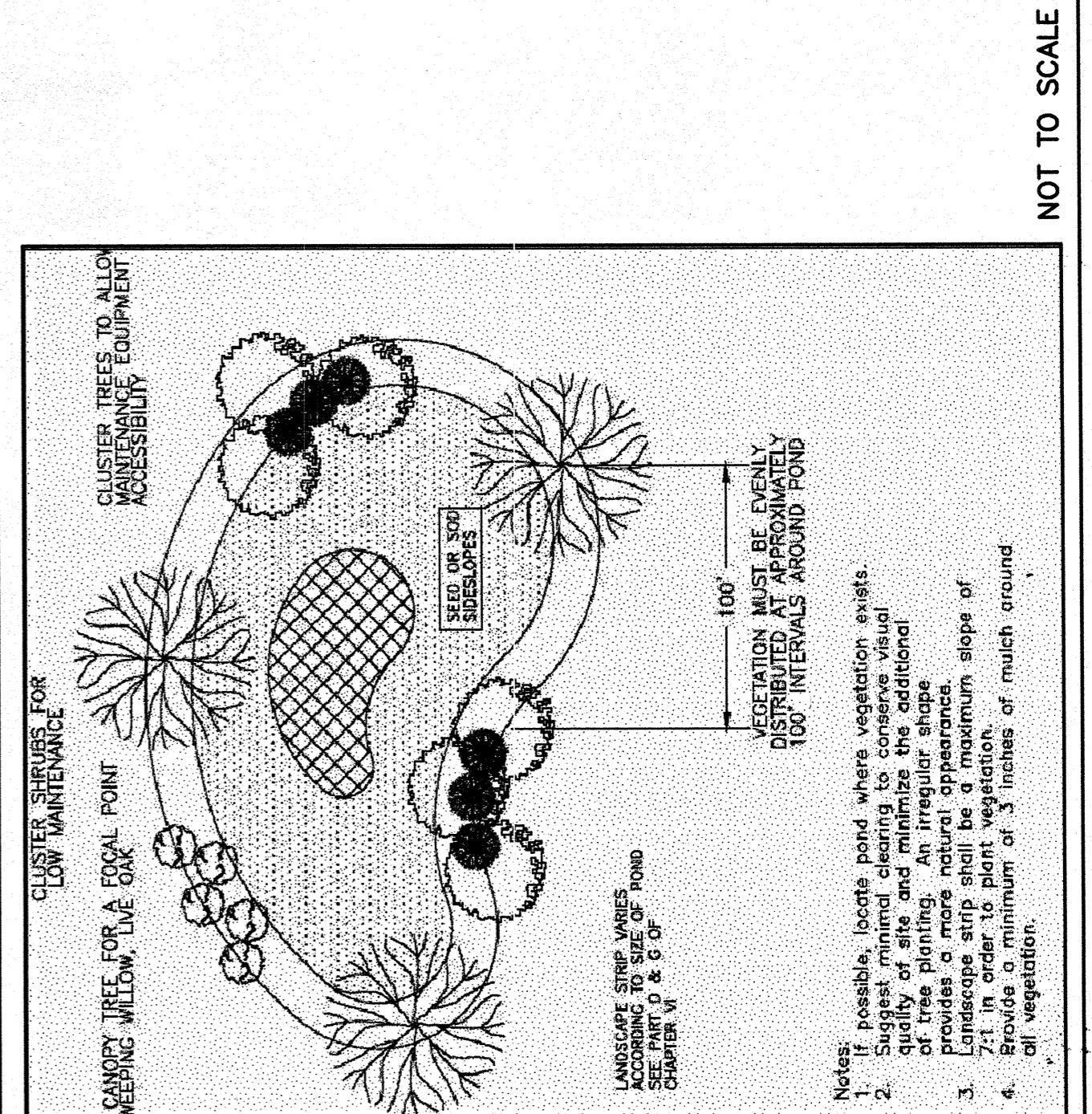
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4 BAFFLE STAKE SPACING DETAIL



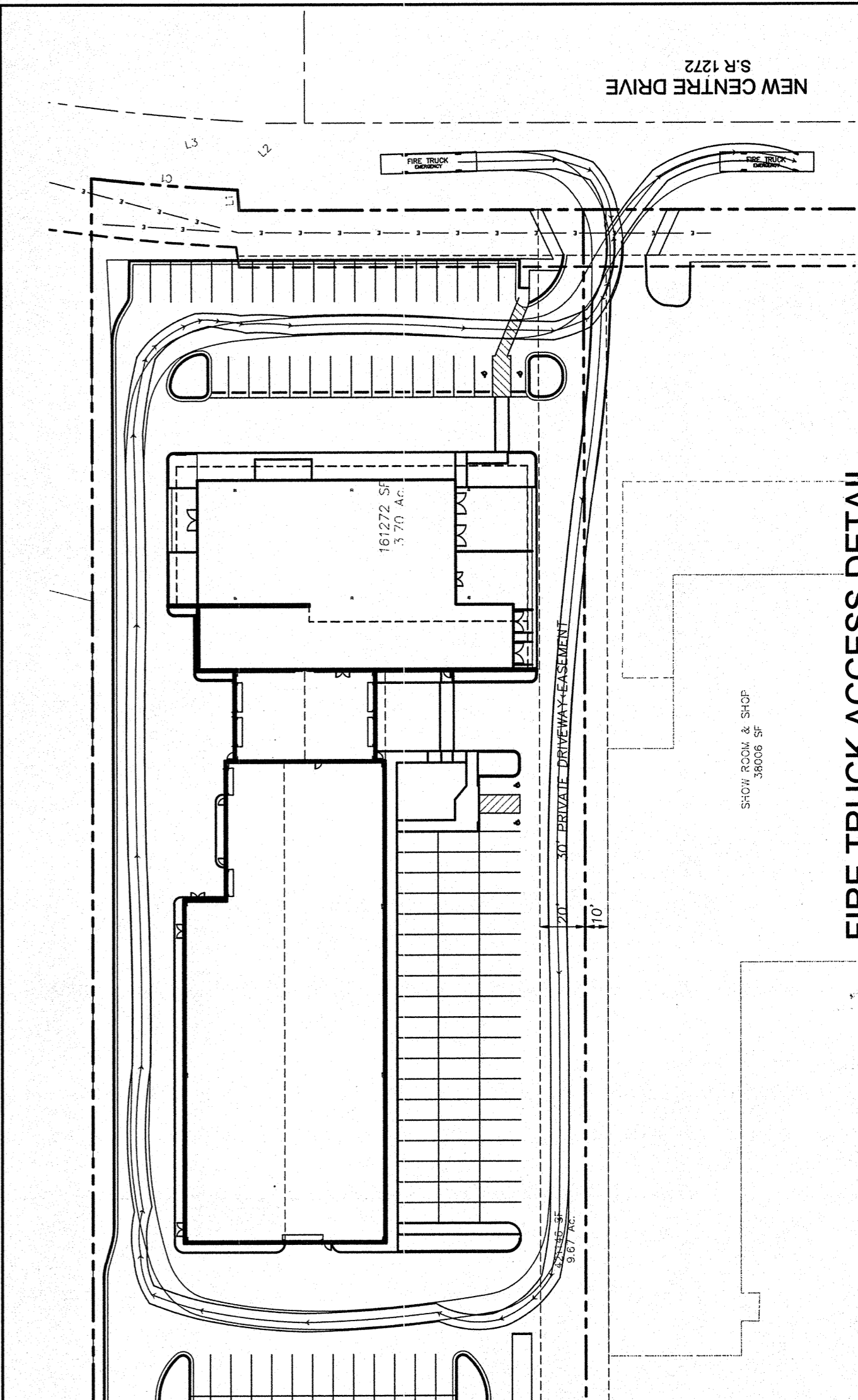
NOT TO SCALE

5 POND #4 CROSS SECTION



NOT TO SCALE

8 TYP. STORMWATER FACILITY LANDSCAPING PLAN



NOT TO SCALE

9 FIRE TRUCK ACCESS DETAIL

NOTES AND DETAILS
BAKER BMW OF WILMINGTON
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WILMINGTON, N. C.

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910 824-0908

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1429 ASH-LITTLE RIVER RD. NW
KATHY, NC 28752
PHONE (910) 287-5908

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C.D. JPN
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DATE 3/14/17

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City of Wilmington, North Carolina
Public Services - Engineering Division
APPROVED STORMWATER MANAGEMENT PLAN
Date: _____ Permit # _____
Signed: _____
Approved Construction Plan

Planning _____ Date _____
Traffic _____
Fire _____

SYMBOL DATE DESCRIPTION REVISIONS BY