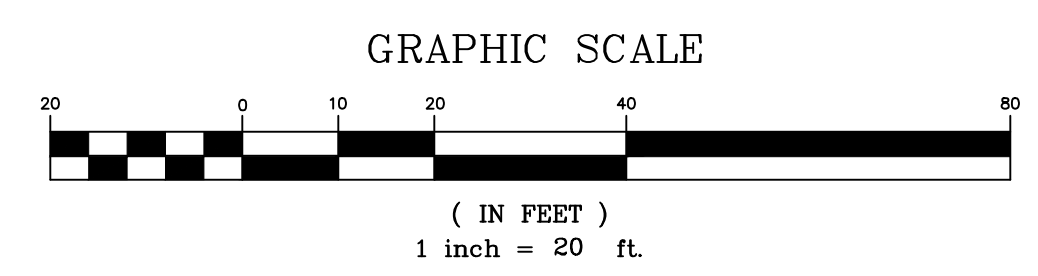


N/F
SOUTH FRONT BLOCK, LLC
DB: 5964 PG: 504
PID: R05417-013-004-000
ZONING: UMX
LAND USE: MIXED USE

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

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

Approved Construction Plan	
Name	Date
Planning	
Traffic	
Fire	



REV NO.	DESCRIPTION	DATE
1	REVISED PER TRC COMMENTS.	3-5-17
2	REVISED PER CLIENT.	4-7-17

PRELIMINARY PLAT
NOT FOR RECORDATION,
CONVEYANCES, OR SALES

EXISTING CONDITIONS & DEMOLITION PLAN
GREENFIELD COMMERCIAL
WILMINGTON TOWNSHIP NEW HANOVER COUNTY NORTH CAROLINA

FINAL DRAWING FOR REVIEW PURPOSES ONLY

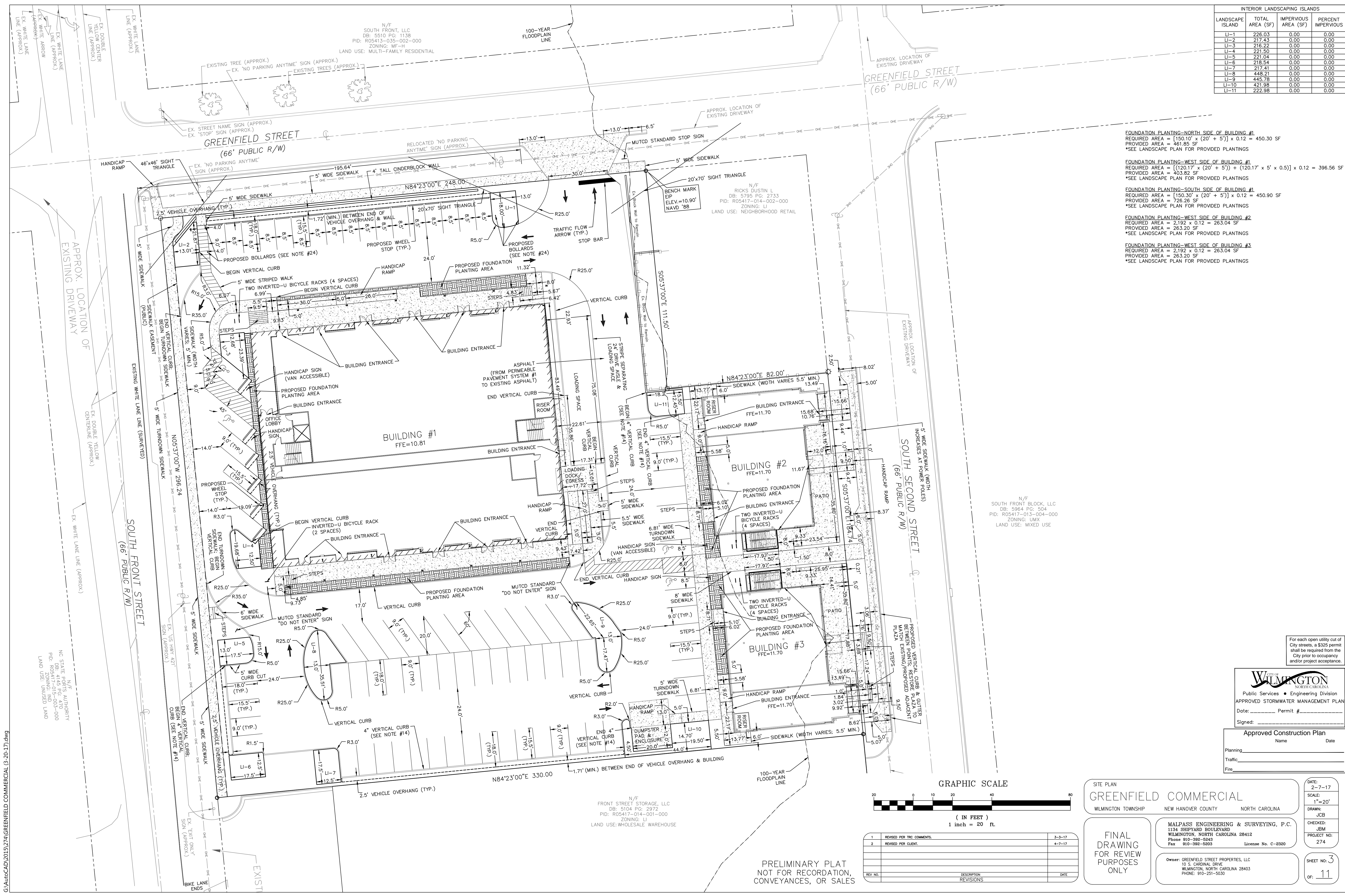
MALPASS ENGINEERING & SURVEYING, P.C.
1134 SHIPYARD BOULEVARD
WILMINGTON, NORTH CAROLINA 28412
Phone 910-392-5243
Fax 910-392-5203 License No. C-2920

Owner: GREENFIELD STREET PROPERTIES, LLC
10 S. CAROLINA DRIVE
WILMINGTON, NORTH CAROLINA 28403
PHONE: 910-251-5630

DATE: 2-7-17
SCALE: 1"=20'
DRAWN: JCB
CHECKED: JBM
PROJECT NO: 274
SHEET NO: 2
OF: 11

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INTERIOR LANDSCAPING ISLANDS			
LANDSCAPE ISLAND	TOTAL AREA (SF)	IMPERVIOUS AREA (SF)	PERCENT IMPERVIOUS
LI-1	226.03	0.00	0.00
LI-2	217.43	0.00	0.00
LI-3	216.22	0.00	0.00
LI-4	221.50	0.00	0.00
LI-5	221.04	0.00	0.00
LI-6	218.54	0.00	0.00
LI-7	217.41	0.00	0.00
LI-8	448.21	0.00	0.00
LI-9	448.78	0.00	0.00
LI-10	421.98	0.00	0.00
LI-11	222.98	0.00	0.00



FOUNDATION PLANTING-NORTH SIDE OF BUILDING #1
 REQUIRED AREA = $[150.10' \times (20' + 5')] \times 0.12 = 450.30$ SF
 PROVIDED AREA = 461.85 SF
 *SEE LANDSCAPE PLAN FOR PROVIDED PLANTINGS

FOUNDATION PLANTING-WEST SIDE OF BUILDING #1
 REQUIRED AREA = $[(120.17' \times (20' + 5')) + (120.17' \times 5' \times 0.5)] \times 0.12 = 396.56$ SF
 PROVIDED AREA = 403.82 SF
 *SEE LANDSCAPE PLAN FOR PROVIDED PLANTINGS

FOUNDATION PLANTING-SOUTH SIDE OF BUILDING #1
 REQUIRED AREA = $[150.30' \times (20' + 5')] \times 0.12 = 450.90$ SF
 PROVIDED AREA = 726.26 SF
 *SEE LANDSCAPE PLAN FOR PROVIDED PLANTINGS

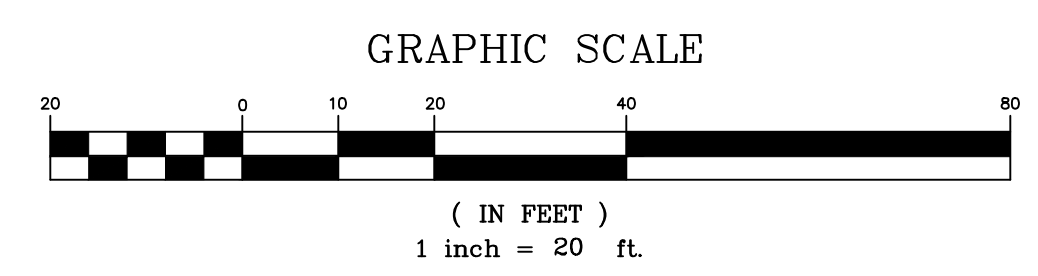
FOUNDATION PLANTING-WEST SIDE OF BUILDING #2
 REQUIRED AREA = $2,192 \times 0.12 = 263.04$ SF
 PROVIDED AREA = 263.20 SF
 *SEE LANDSCAPE PLAN FOR PROVIDED PLANTINGS

FOUNDATION PLANTING-WEST SIDE OF BUILDING #3
 REQUIRED AREA = $2,192 \times 0.12 = 263.04$ SF
 PROVIDED AREA = 263.20 SF
 *SEE LANDSCAPE PLAN FOR PROVIDED PLANTINGS

N/F
 SOUTH FRONT BLOCK, LLC
 DB: 5964 PG: 504
 PID: R05417-013-004-000
 ZONING: UMX
 LAND USE: MIXED USE

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

CITY OF WILMINGTON
 NORTH CAROLINA
 Public Services • Engineering Division
 APPROVED STORMWATER MANAGEMENT PLAN
 Date: _____ Permit # _____
 Signed: _____
Approved Construction Plan
 Name _____ Date _____
 Planning _____
 Traffic _____
 Fire _____



REV NO.	DESCRIPTION	DATE
1	REVISED PER TRC COMMENTS.	3-3-17
2	REVISED PER CLIENT.	4-7-17

PRELIMINARY PLAN
 NOT FOR RECORDATION,
 CONVEYANCES, OR SALES

SITE PLAN
GREENFIELD COMMERCIAL
 WILMINGTON TOWNSHIP NEW HANOVER COUNTY NORTH CAROLINA

FINAL DRAWING FOR REVIEW PURPOSES ONLY

MALPASS ENGINEERING & SURVEYING, P.C.
 1134 SHIPYARD BOULEVARD
 WILMINGTON, NORTH CAROLINA 28412
 Phone 910-392-5243
 Fax 910-392-5203 License No. C-2920

Owner: GREENFIELD STREET PROPERTIES, LLC
 10 S. CAROLINA DRIVE
 WILMINGTON, NORTH CAROLINA 28403
 PHONE: 910-251-5630

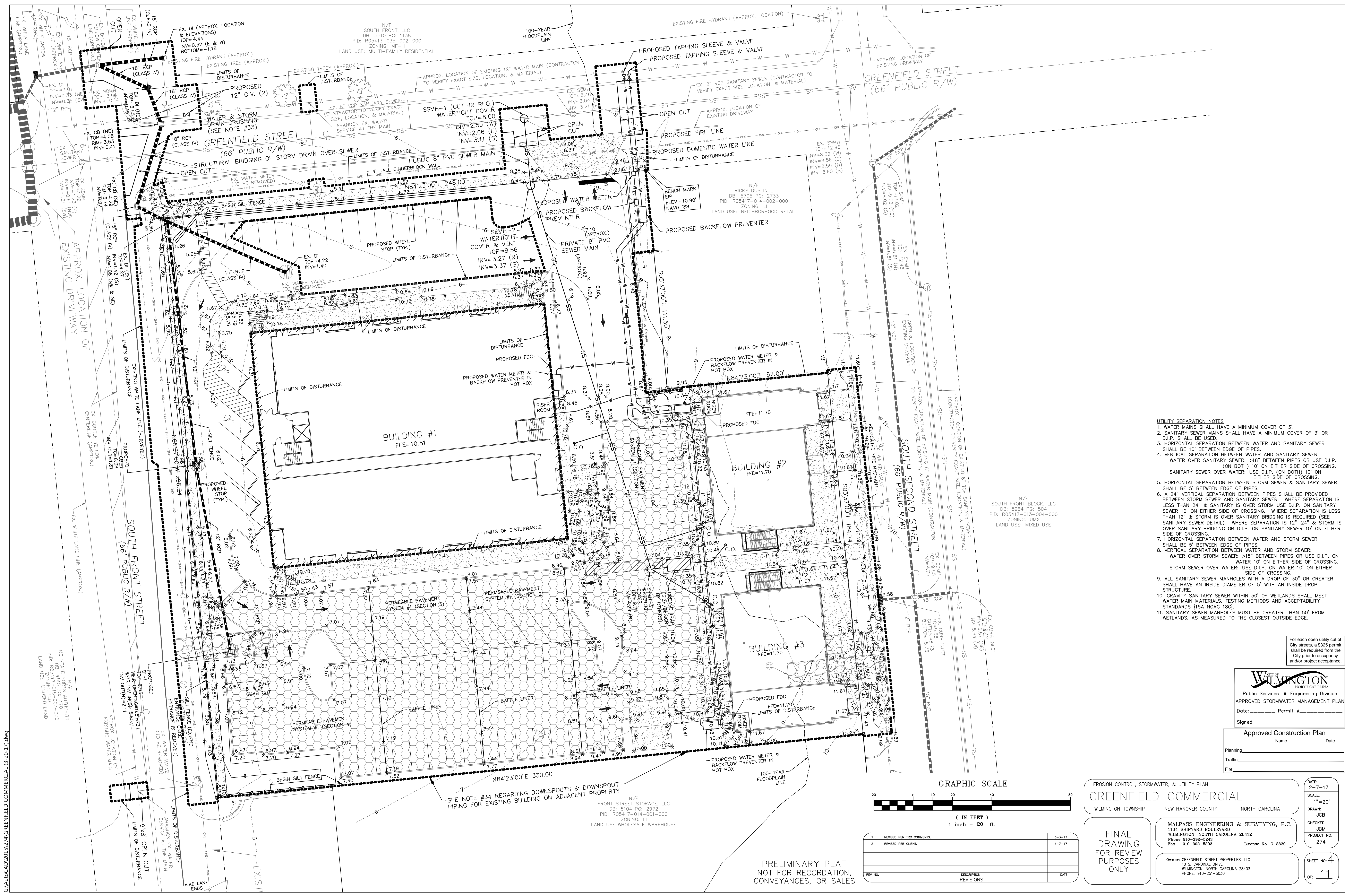
DATE: 2-7-17
 SCALE: 1"=20'
 DRAWN: JCB
 CHECKED: JBM
 PROJECT NO: 274
 SHEET NO: 3
 OF: 11

N/C STATE POINTS AUTHORITY
 DB: 4445 PG: 470
 PID: R05417-013-004-000
 LAND USE: UNUSED LAND

N/F SOUTH FRONT, LLC
 DB: 5510 PG: 1136
 PID: R05413-035-002-000
 ZONING: MF-H
 LAND USE: MULTI-FAMILY RESIDENTIAL

N/F
 FRONT STREET STORAGE, LLC
 DB: 5104 PG: 2922
 PID: R05417-014-001-000
 ZONING: LI
 LAND USE: WHOLESALE WAREHOUSE

N/F
 RICKS DUSTIN L
 DB: 5795 PG: 2733
 PID: R05417-014-002-000
 ZONING: LI
 LAND USE: NEIGHBORHOOD RETAIL



- UTILITY SEPARATION NOTES**
1. WATER MAINS SHALL HAVE A MINIMUM COVER OF 3'.
 2. SANITARY SEWER MAINS SHALL HAVE A MINIMUM COVER OF 3' OR D.I.P. SHALL BE USED.
 3. HORIZONTAL SEPARATION BETWEEN WATER AND SANITARY SEWER SHALL BE 10' BETWEEN EDGE OF PIPES.
 4. VERTICAL SEPARATION BETWEEN WATER AND SANITARY SEWER: WATER OVER SANITARY SEWER: >18" BETWEEN PIPES OR USE D.I.P. (ON BOTH) 10' ON EITHER SIDE OF CROSSING. SANITARY SEWER OVER WATER: USE D.I.P. (ON BOTH) 10' ON EITHER SIDE OF CROSSING.
 5. HORIZONTAL SEPARATION BETWEEN STORM SEWER & SANITARY SEWER SHALL BE 5' BETWEEN EDGE OF PIPES.
 6. A 24" VERTICAL SEPARATION BETWEEN PIPES SHALL BE PROVIDED BETWEEN STORM SEWER AND SANITARY SEWER, WHERE SEPARATION IS LESS THAN 24" & SANITARY IS OVER STORM USE D.I.P. ON SANITARY SEWER 10' ON EITHER SIDE OF CROSSING. WHERE SEPARATION IS LESS THAN 12" & STORM IS OVER SANITARY BRIDGING IS REQUIRED (SEE SANITARY SEWER DETAIL). WHERE SEPARATION IS 12"-24" & STORM IS OVER SANITARY BRIDGING OR D.I.P. ON SANITARY SEWER 10' ON EITHER SIDE OF CROSSING.
 7. HORIZONTAL SEPARATION BETWEEN WATER AND STORM SEWER SHALL BE 5' BETWEEN EDGE OF PIPES.
 8. VERTICAL SEPARATION BETWEEN WATER AND STORM SEWER: WATER OVER STORM SEWER: >18" BETWEEN PIPES OR USE D.I.P. ON STORM SEWER OVER WATER: USE D.I.P. ON WATER 10' ON EITHER SIDE OF CROSSING.
 9. ALL SANITARY SEWER MANHOLES WITH A DROP OF 30" OR GREATER SHALL HAVE AN INSIDE DIAMETER OF 5' WITH AN INSIDE DROP STRUCTURE.
 10. GRAVITY SANITARY SEWER WITHIN 50' OF WETLANDS SHALL MEET WATER MAIN MATERIALS, TESTING METHODS AND ACCEPTABILITY STANDARDS 115A NCAC 18C.
 11. SANITARY SEWER MANHOLES MUST BE GREATER THAN 50' FROM WETLANDS, AS MEASURED TO THE CLOSEST OUTSIDE EDGE.

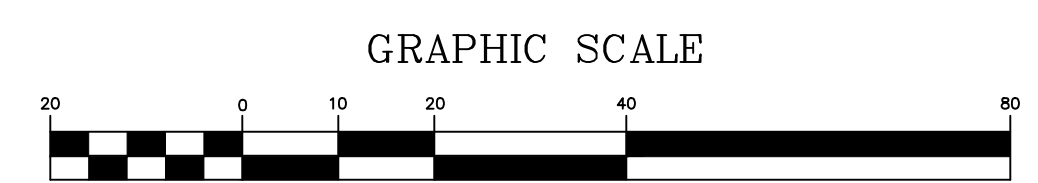
N/F SOUTH FRONT BLOCK, LLC
 DB: 5964 PG: 504
 PID: R05417-013-004-000
 ZONING: UM-X
 LAND USE: MIXED USE

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

Approved Construction Plan

Planning	Name	Date
Traffic		
Fire		



REV. NO.	DESCRIPTION	DATE
1	REVISED PER TRC COMMENTS.	3-3-17
2	REVISED PER CLIENT.	4-7-17

PRELIMINARY PLAT
 NOT FOR RECORDATION,
 CONVEYANCES, OR SALES

EROSION CONTROL, STORMWATER, & UTILITY PLAN
GREENFIELD COMMERCIAL
 WILMINGTON TOWNSHIP NEW HANOVER COUNTY NORTH CAROLINA

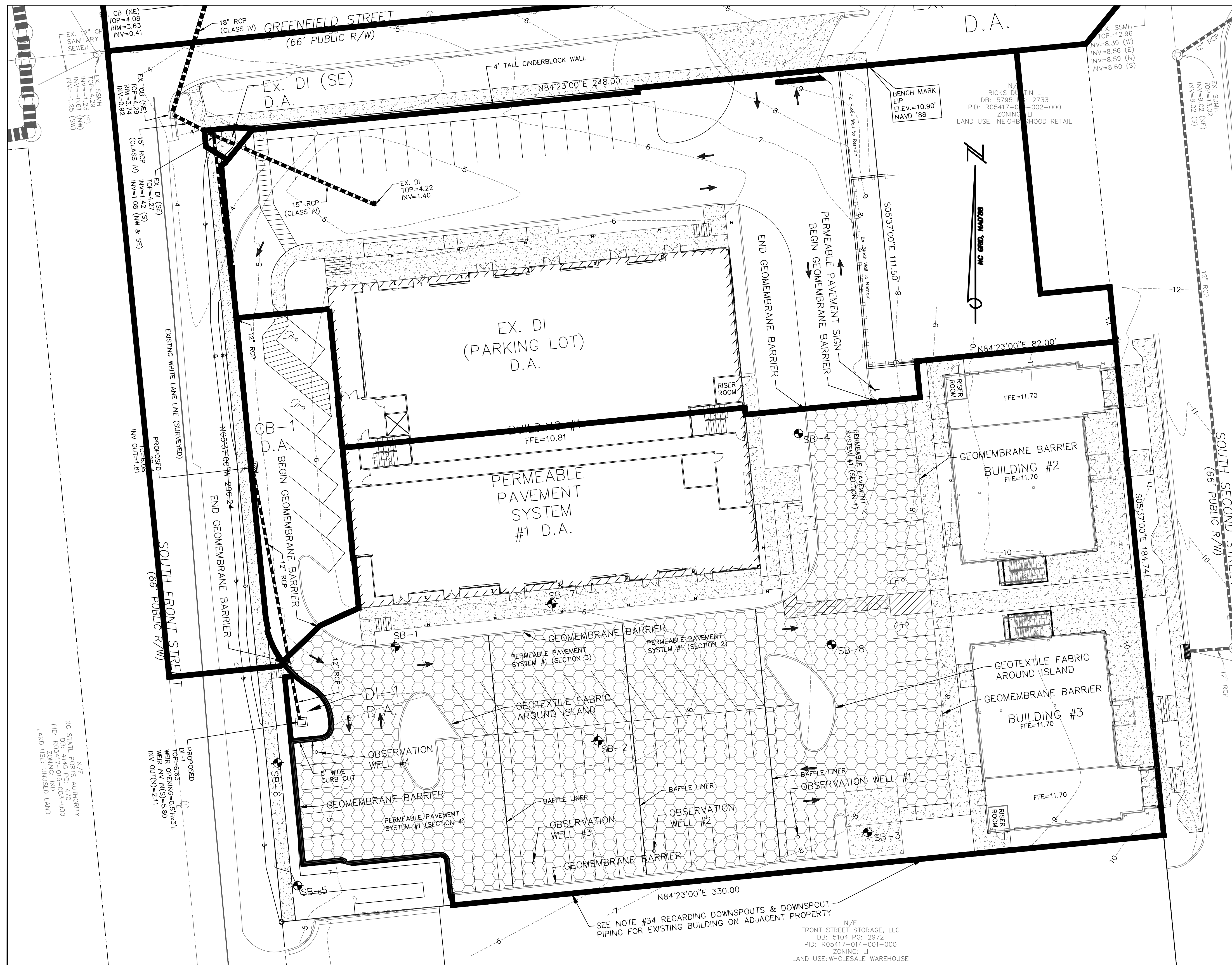
FINAL DRAWING FOR REVIEW PURPOSES ONLY

MALPASS ENGINEERING & SURVEYING, P.C.
 1134 SHIPYARD BOULEVARD
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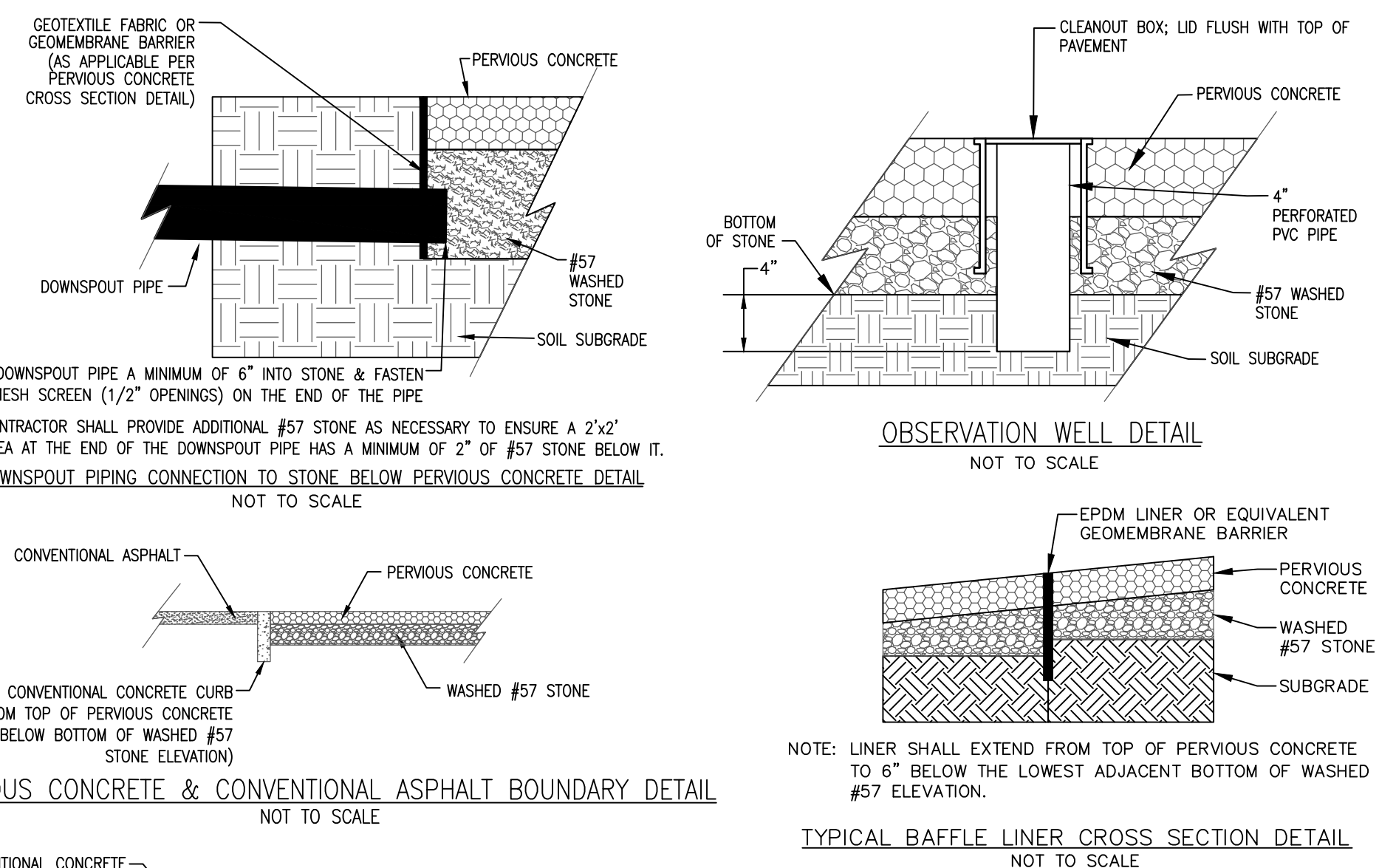
Owner: GREENFIELD STREET PROPERTIES, LLC
 10 S. CAROLINA DRIVE
 WILMINGTON, NORTH CAROLINA 28403
 PHONE: 910-251-5630

DATE: 2-7-17
 SCALE: 1"=20'
 DRAWN: JCB
 CHECKED: JBM
 PROJECT NO: 274
 SHEET NO: 4
 OF: 11

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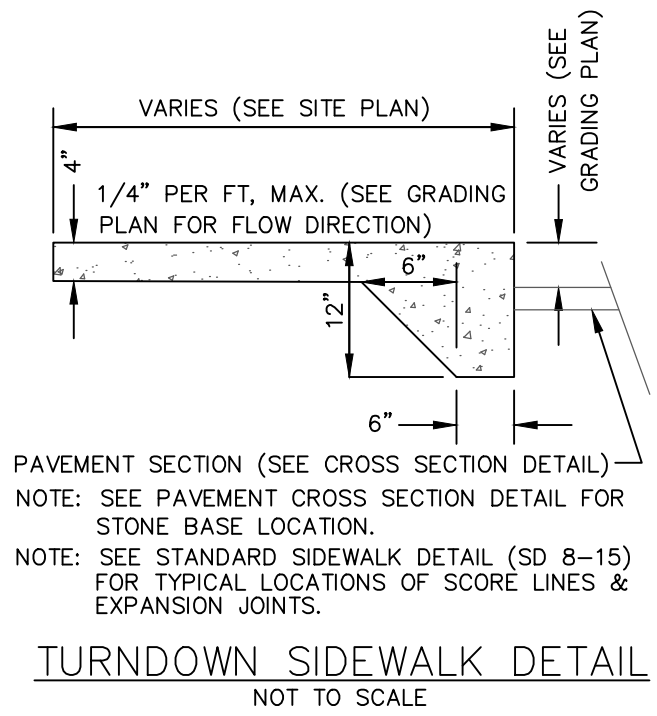
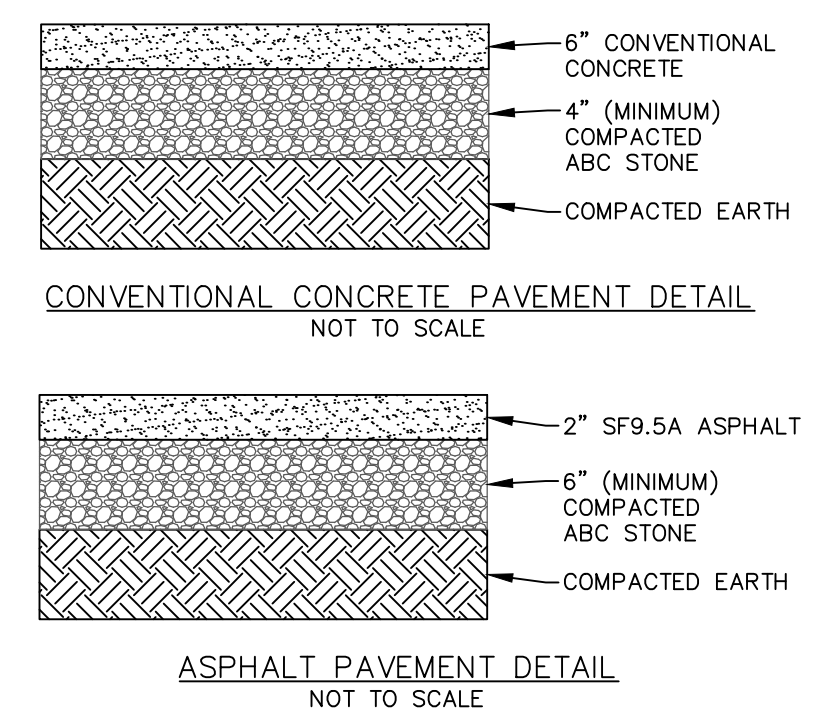
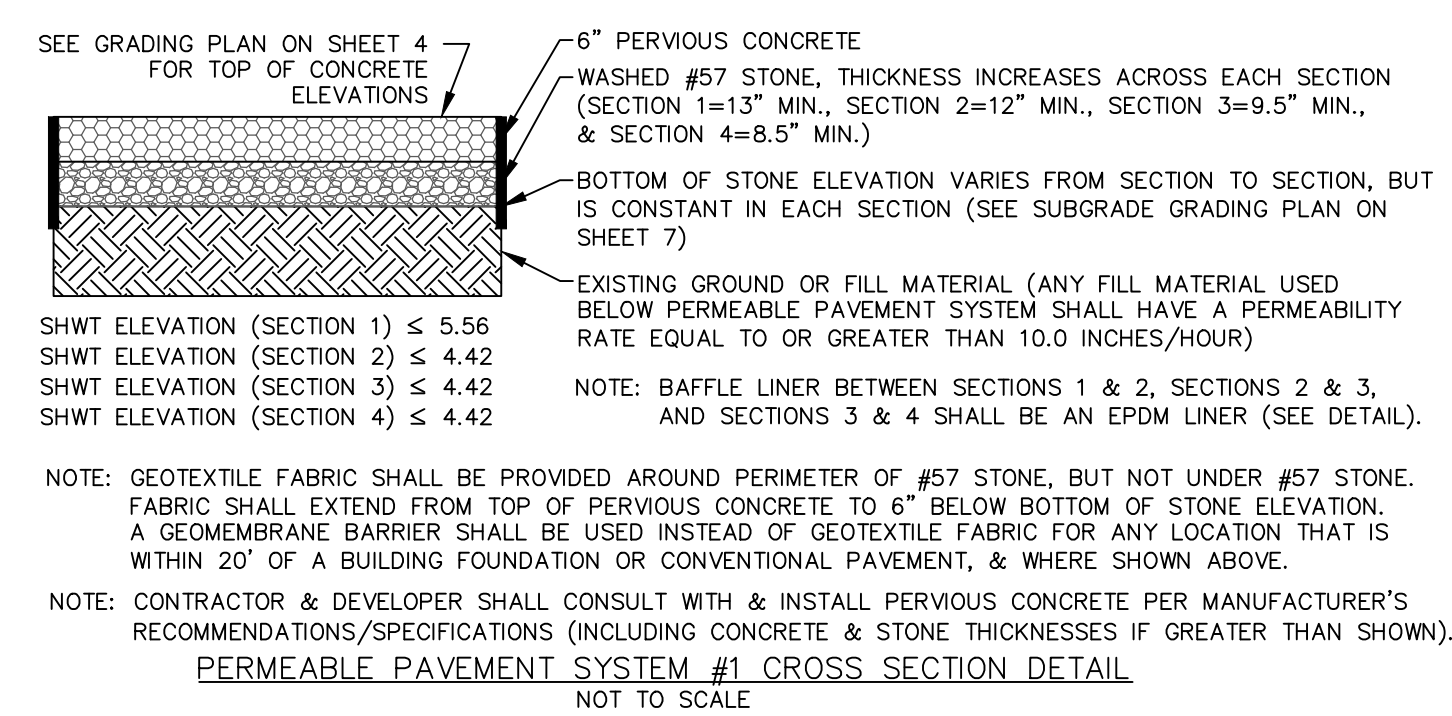
- CONSTRUCTION SEQUENCE FOR INSTALLATION OF PERMEABLE PAVEMENT (NCDENR STORMWATER BMP MANUAL CHAPTER 18)**
- ENSURE ACCEPTABLE CONDITIONS FOR CONSTRUCTION
 - PERVIOUS SURFACES MUST BE GRADED TO DRAIN AWAY FROM THE PERMEABLE PAVEMENT, EXCEPT WHERE THIS IS UNAVOIDABLE, SUCH AS PARKING LOT ISLANDS, AND AREA BETWEEN BUILDINGS & PARKING LOT.
 - IMPERVIOUS AREAS THAT WILL DRAIN TO THE PERMEABLE PAVEMENT ARE COMPLETED.
 - AREAS ADJACENT TO THE PERMEABLE PAVEMENT ARE STABILIZED (VEGETATION, MULCH, STRAW, FIBER BLANKETS, ETC.) IN ORDER TO PREVENT EROSION & POSSIBLE CONTAMINATION WITH SEDIMENTS.
 - CONSTRUCTION ACCESS TO OTHER PORTIONS OF THE SITE IS ESTABLISHED SO THAT NO CONSTRUCTION TRAFFIC PASSES THROUGH THE PERMEABLE PAVEMENT SITE DURING INSTALLATION. INSTALL BARRIERS/FENCES AS NEEDED.
 - WEATHER FORECAST CALLS FOR A WINDOW OF DRY WEATHER TO PREVENT EXCESS COMPACTION OR SMearing OF THE SOIL SUBGRADE WHILE IT IS EXPOSED.
 - ALL PERMEABLE PAVEMENT AREAS ARE CLEARLY MARKED ON THE SITE.
 - EXCAVATE PERMEABLE PAVEMENT AREA & PREPARE SUBGRADE SURFACE
 - EXCAVATE TO DRY SUBGRADE CONDITIONS & AVOID EXCAVATING IMMEDIATELY AFTER STORMS WITHOUT A SUFFICIENT DRYING PERIOD.
 - DO NOT ALLOW EQUIPMENT TO CROSS THE PAVEMENT AREA AFTER EXCAVATION HAS BEGUN.
 - OPERATE EXCAVATION EQUIPMENT FROM OUTSIDE THE EXCAVATION AREA OR FROM UNEXCAVATED PORTIONS OF THE AREA USING AN EXCAVATION STAGING PLAN.
 - USE EQUIPMENT WITH TRACKS RATHER THAN TIRES TO MINIMIZE SOIL COMPACTION WHEN EQUIPMENT ON THE SUBGRADE SURFACE IS UNAVOIDABLE.
 - DIG THE FINAL 9 TO 12 INCHES BY USING THE TEETH OF THE EXCAVATOR BUCKET TO LOOSEN SOIL & DO NOT SMear THE SUBGRADE SOIL SURFACE. FINAL GRADING OR SMOOTHING OF SUBGRADE SHOULD BE DONE BY HAND IF POSSIBLE.
 - THE FINAL SUBGRADE SLOPE SHALL NOT EXCEED 0.5%. THE FINAL SUBGRADE SHALL BE SURVEYED BEFORE PROCEEDING WITH INSTALLATION.
 - MINIMIZE THE TIME BETWEEN EXCAVATION AND PLACEMENT OF THE AGGREGATE.
 - AFTER THE SUBGRADE SLOPE IS VERIFIED, SCARIFY THE SOIL SUBGRADE SURFACE TO MAINTAIN THE SOILS PRE-DISTURBANCE INFILTRATION RATE.
 - TO SCARIFY THE PAVEMENT, USE THE EXCAVATOR BUCKET'S TEETH TO RAKE THE SURFACE OF THE SUBGRADE.
 - TEST THE SUBGRADE SOIL INFILTRATION RATE (INFILTRATION SYSTEMS ONLY)
 - IMMEDIATELY AFTER EXCAVATION & BEFORE THE AGGREGATE IS PLACED, CONDUCT A DIRECT MEASUREMENT OF THE SOIL'S INFILTRATION RATE. INFILTRATION TESTING SHALL BE PERFORMED BY AN APPROPRIATELY-QUALIFIED PROFESSIONAL.
 - RESULTS OF THE INFILTRATION TESTING SHALL BE PROVIDED TO THE ENGINEER.
 - IF THE SOIL TEST SHOWS INFILTRATION RATE(S) THAT ARE LOWER THAN THE RATE(S) USED IN THE DESIGN, THEN ADDITIONAL SCARIFICATION, RIPPING, OR TRENCHING OF THE SOIL WILL BE NEEDED.
 - CONTRACTOR SHALL CONTACT & RECEIVE APPROVAL FROM ENGINEER OF RECORD TO CONTINUE INSTALLATION OF PERMEABLE PAVEMENT.
 - PLACE GEOTEXTILES AND GEOMEMBRANE (IF APPLICABLE)
 - FOLLOW MANUFACTURER'S RECOMMENDATIONS FOR THE APPROPRIATE OVERLAP BETWEEN ROLLS OF MATERIAL SECURE THE MATERIAL TO ENSURE IT DOES NOT MOVE OR WRINKLE WHEN PLACING AGGREGATE.
 - PLACE OBSERVATION WELL(S)
 - PLACE OBSERVATION WELL(S) ACCORDING TO THE PLAN AND VERIFY THAT THE ELEVATIONS ARE CORRECT.
 - PLACE & COMPACT AGGREGATE BASE
 - INSPECT ALL AGGREGATES TO ENSURE THEY ARE CLEAN, FREE OF FINES, AND CONFORM TO THE PLANS.
 - IF AGGREGATE DELIVERED TO THE SITE CANNOT BE IMMEDIATELY PLACED INTO THE EXCAVATION, THEY SHOULD BE STOCKPILED ON AN IMPERVIOUS SURFACE, GEOTEXTILE, OR ON AN IMPERVIOUS MATERIAL TO KEEP THE AGGREGATE FREE OF SEDIMENT.
 - IF AGGREGATE BECOMES CONTAMINATED WITH SEDIMENT, THEN IT SHALL BE REPLACED WITH CLEAN AGGREGATE.
 - BEFORE FINISHING THE AGGREGATE BASE, REMOVE ANY ACCUMULATION OF SEDIMENTS ON THE FINISHED SOIL SUBGRADE.
 - IF THE EXPOSED SUBGRADE HAS BEEN SUBJECT TO RAINFALL BEFORE PLACEMENT OF THE AGGREGATE, THEN THE SUBGRADE SURFACE MUST BE SCARIFIED TO BREAK UP THE RESULTING SURFACE CRUST.
 - SLOPES & ELEVATIONS SHALL BE CHECKED ON THE SOIL SUBGRADE AND THE FINISHED ELEVATION OF BASE (AFTER COMPACTION) OR BEDDING MATERIALS TO ASSURE THEY CONFORM TO THE PLANS AND SPECIFICATIONS.
 - THE AGGREGATE SHALL BE SPREAD (NOT DUMPED) BY A FRONT-END LOADER OR FROM DUMP TRUCKS DEPOSITING FROM NEAR THE EDGE OF THE EXCAVATED AREA OR DIRECTLY ON DEPOSITED AGGREGATE PILES. MOISTEN AND SPREAD THE WASHED STONE WITHOUT DRIVING ON THE SOIL SUBGRADE. BE CAREFUL NOT TO DAMAGE THE OBSERVATION WELLS DURING COMPACTION.
 - FOLLOW COMPACTION RECOMMENDATIONS BY THE PERMEABLE PAVEMENT MANUFACTURER OR THAT FROM INDUSTRY GUIDELINES.
 - BE SURE THAT CORNERS, AREAS AROUND UTILITY STRUCTURES AND OBSERVATION WELLS, & TRANSITION AREAS TO OTHER PAVEMENTS ARE ADEQUATELY COMPACTED.
 - DO NOT CRUSH AGGREGATES DURING COMPACTION.
 - INSTALL CURB RESTRAINTS AND PAVEMENT BARRIERS
 - EDGE RESTRAINTS AND BARRIERS BETWEEN PERMEABLE IMPERVIOUS PAVEMENT SHALL BE INSTALLED PER THE PLAN.
 - BEFORE MOVING ON TO CONSTRUCTION STEP 8, BE CERTAIN THE DESIGN AND INSTALLATION ARE CONSISTENT.
 - INSTALL PAVEMENT COURSE
 - PERVIOUS CONCRETE SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE LATEST VERSION OF ACI 522.1 SPECIFICATION FOR PERVIOUS CONCRETE.
 - INSTALLATION OF THE PERVIOUS CONCRETE MAY BE ACCOMPLISHED USING EITHER THE ONE-STEP OR TWO-STEP METHOD.
 - PROTECT THE PAVEMENT THROUGH PROJECT COMPLETION
 - IF IT IS NOT POSSIBLE TO INSTALL THE PERMEABLE PAVEMENT AT THE END OF THE SITE CONSTRUCTION TIMELINE, THEN PROTECT THE PAVEMENT UNTIL PROJECT COMPLETION. THIS SHALL BE DONE BY:
 - ROUTING CONSTRUCTION ACCESS THROUGH OTHER PORTIONS OF THE SITE SO THAT NO CONSTRUCTION TRAFFIC PASSES THROUGH THE PERMEABLE PAVEMENT SITE (INSTALL BARRIERS/FENCES AS NEEDED).
 - IF THIS IS NOT POSSIBLE, PROTECT THE PAVEMENT PER THE CONSTRUCTION DOCUMENTS. PROTECTION TECHNIQUES THAT MAY BE USED INCLUDE MATS, PLASTIC SHEETING, BARRIERS TO LIMIT ACCESS, OR MOVING THE STABILIZED CONSTRUCTION ENTRANCE.
 - SCHEDULE STREET SWEEPING DURING AND AFTER CONSTRUCTION TO PREVENT SEDIMENT FROM ACCUMULATING ON THE PAVEMENT.



DRAINAGE AREA, SOIL TEST LOCATIONS, OBSERVATION WELL LOCATIONS, PERMEABLE PAVEMENT SIGN LOCATION & GEOTEXTILE/GEOMEMBRANE LOCATION MAP
SCALE: 1"=20'

SOIL TEST RESULTS PER APPLIED RESOURCE MANAGEMENT, PC

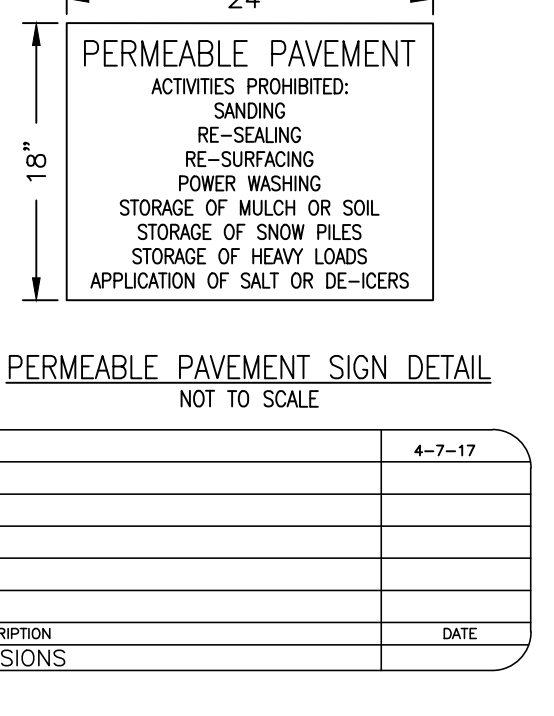
TEST LOCATION	EXISTING GROUND ELEVATION (FEET)**	SHWT (INCHES BELOW GROUND SURFACE)**	SHWT ELEVATION (FEET)**	HYDRAULIC CONDUCTIVITY RATE (INCHES PER HOUR)**
SB 1	5.75	16	4.42	11.92
SB 2	5.72	18	4.22	5.01
SB 3	8.24	36	5.24	0.37
SB 4	6.39	10	5.56	0.41
SB 5	4.13	< 12	3.13-4.13	3.34
SB 6	4.67	< 12	3.67-4.67	2.18
SB 7	6.07	36	3.07	2.75
SB 8	7.25	32	4.59	2.18
				2.51
				1.07
				1.43
				0.78
				8.38
				8.10



INLET DRAINAGE AREA CHART

INLET	DRAINAGE AREA (ACRES)
CB-1	0.10
DI-1	0.91
PERMEABLE PAVEMENT SYSTEM #1	1.22

*DI-1 D.A. DOES NOT INCLUDE PERMEABLE PAVEMENT SYSTEM #1 D.A.



APPROVED CONSTRUCTION PLAN

Name: _____ Date: _____

Planning: _____

Traffic: _____

Fire: _____

GREENFIELD COMMERCIAL
WILMINGTON TOWNSHIP NEW HANOVER COUNTY NORTH CAROLINA

FINAL DRAWING FOR REVIEW PURPOSES ONLY

MALPASS ENGINEERING & SURVEYING, P.C.
1134 SHIPYARD BOULEVARD
WILMINGTON, NORTH CAROLINA 28412
Phone 910-392-5243 Fax 910-392-5203 License No. C-2320

Owner: GREENFIELD STREET PROPERTIES, LLC
10 S. CAROLINA DRIVE
WILMINGTON, NORTH CAROLINA 28403
PHONE: 910-251-5630

DATE: 3-3-17
SCALE: N.T.S.
DRAWN: JCB
CHECKED: JBM
PROJECT NO: 274
SHEET NO: 6
OF: 11

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DB: 5510 PGS 11.38
 PID: R05413-035-002-000
 ZONING: MF-H
 LAND USE: MULTI-FAMILY RESIDENTIAL



ROOF DOWNSPOUT PIPING (LAYOUT & DRAINAGE AREA MAP) & PERMEABLE PAVEMENT SUBGRADE GRADING PLAN
 SCALE: 1"=20'

NOTE: AN IN-LINE DOWNSPOUT FILTER MUST BE INSTALLED ON EVERY ROOF DOWNSPOUT DRAINING TO PERMEABLE PAVEMENT SYSTEM #1.

BUILDING #1 ROOF DOWNSPOUT DRAINAGE AREA CHART

INLET	DRAINAGE AREA (ACRES)
DS #1	0.03
DS #2	0.04
DS #3	0.05
DS #4	0.05
DS #5	0.04
DS #6	0.03
DS #7	0.02
DS #8	0.04
DS #9	0.04
DS #10	0.07
DS #11	0.05

BUILDING #2 ROOF DOWNSPOUT DRAINAGE AREA CHART

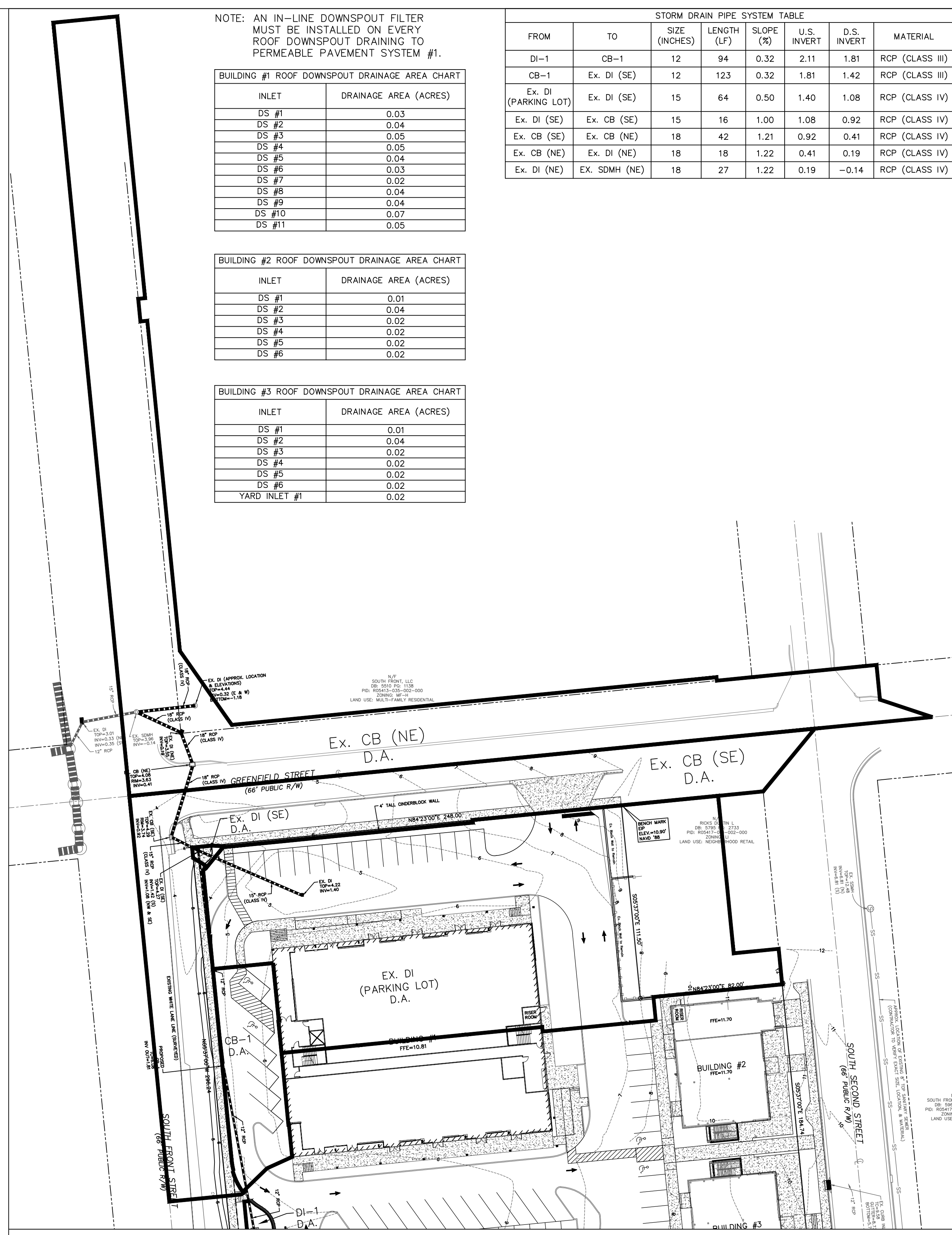
INLET	DRAINAGE AREA (ACRES)
DS #1	0.01
DS #2	0.04
DS #3	0.02
DS #4	0.02
DS #5	0.02
DS #6	0.02

BUILDING #3 ROOF DOWNSPOUT DRAINAGE AREA CHART

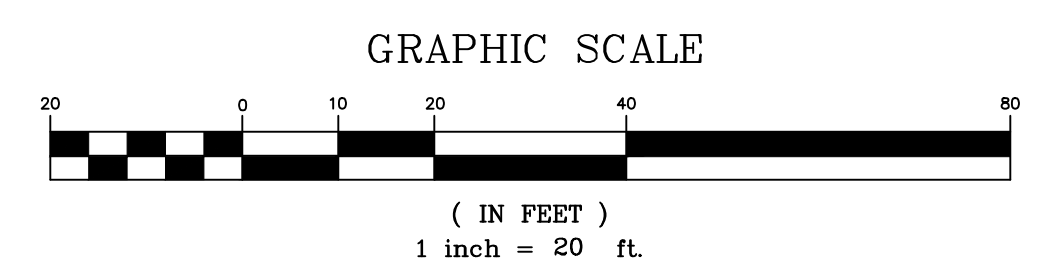
INLET	DRAINAGE AREA (ACRES)
DS #1	0.01
DS #2	0.04
DS #3	0.02
DS #4	0.02
DS #5	0.02
DS #6	0.02
YARD INLET #1	0.02

STORM DRAIN PIPE SYSTEM TABLE

FROM	TO	SIZE (INCHES)	LENGTH (LF)	SLOPE (%)	U.S. INVERT	D.S. INVERT	MATERIAL
DI-1	CB-1	12	94	0.32	2.11	1.81	RCP (CLASS III)
CB-1	Ex. DI (SE)	12	123	0.32	1.81	1.42	RCP (CLASS III)
Ex. DI (PARKING LOT)	Ex. DI (SE)	15	64	0.50	1.40	1.08	RCP (CLASS IV)
Ex. DI (SE)	Ex. CB (SE)	15	16	1.00	1.08	0.92	RCP (CLASS IV)
Ex. CB (SE)	Ex. CB (NE)	18	42	1.21	0.92	0.41	RCP (CLASS IV)
Ex. CB (NE)	Ex. DI (NE)	18	18	1.22	0.41	0.19	RCP (CLASS IV)
Ex. DI (NE)	Ex. SDMH (NE)	18	27	1.22	0.19	-0.14	RCP (CLASS IV)



DRAINAGE AREA MAP (OFF-SITE INLETS) - SCALE: 1"=40'



PRELIMINARY PLAT NOT FOR RECORDATION, CONVEYANCES, OR SALES

REV. NO.	DESCRIPTION	DATE
1	REVISED PER CLIENT.	4-7-17

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

GREENFIELD COMMERCIAL
 WILMINGTON TOWNSHIP NEW HANOVER COUNTY NORTH CAROLINA

APPROVED CONSTRUCTION PLAN
 Name _____ Date _____
 Planning _____
 Traffic _____
 Fire _____

ROOF DOWNSPOUT PIPING, SUBGRADE GRADING, & DRAINAGE AREA MAP
GREENFIELD COMMERCIAL
 WILMINGTON, NORTH CAROLINA 28412
 Phone 910-392-5243 Fax 910-392-5203 License No. C-2920

FINAL DRAWING FOR REVIEW PURPOSES ONLY

MALPASS ENGINEERING & SURVEYING, P.C.
 1134 SHIPYARD BOULEVARD
 WILMINGTON, NORTH CAROLINA 28412
 Phone 910-392-5243 Fax 910-392-5203 License No. C-2920

Owner: GREENFIELD STREET PROPERTIES, LLC
 10 S. CARDINAL DRIVE
 WILMINGTON, NORTH CAROLINA 28403
 PHONE: 910-251-5630

DATE: 3-3-17
 SCALE: 1"=20'
 DRAWN: JCB
 CHECKED: JBM
 PROJECT NO: 274
 SHEET NO: 7
 OF: 11

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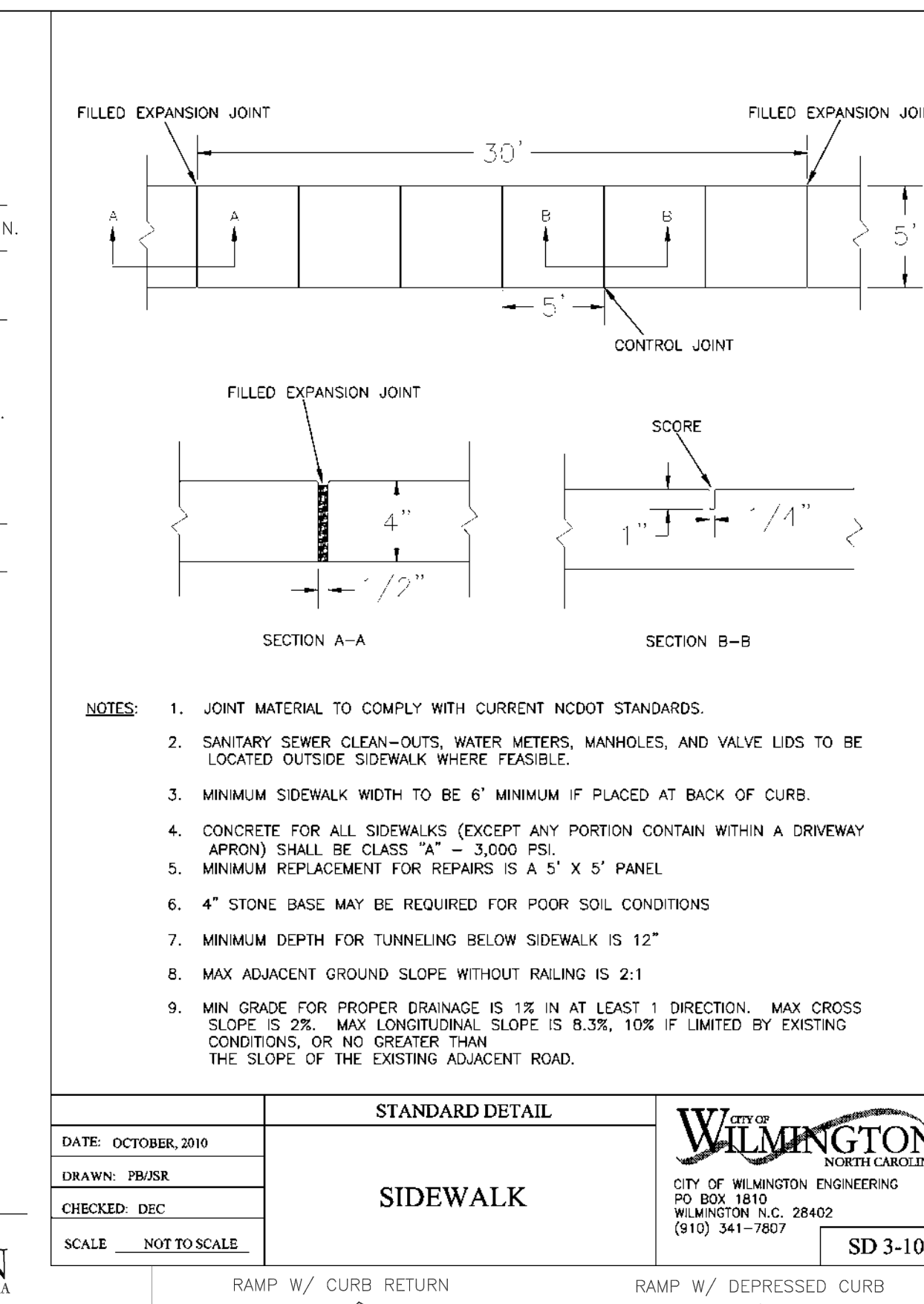
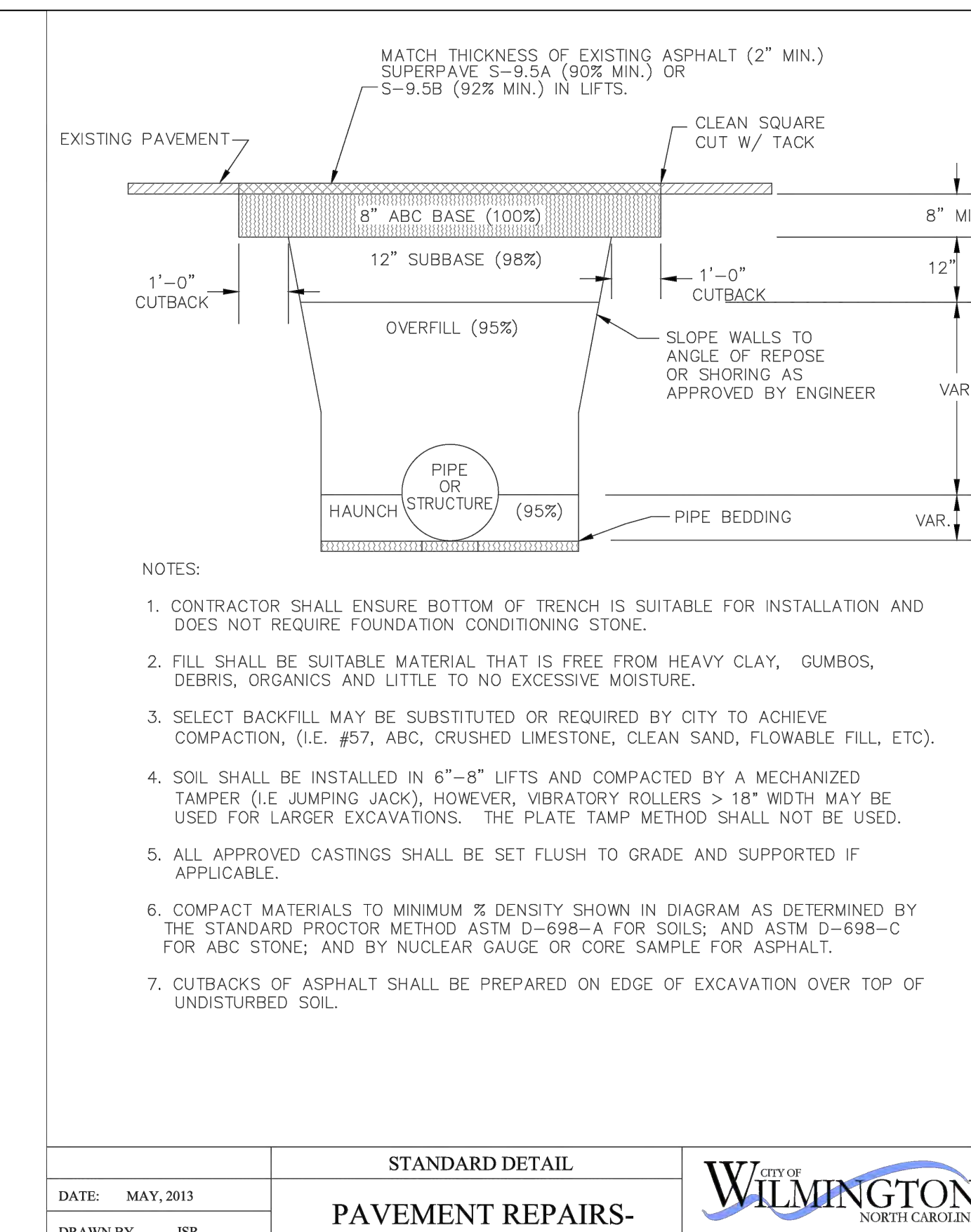
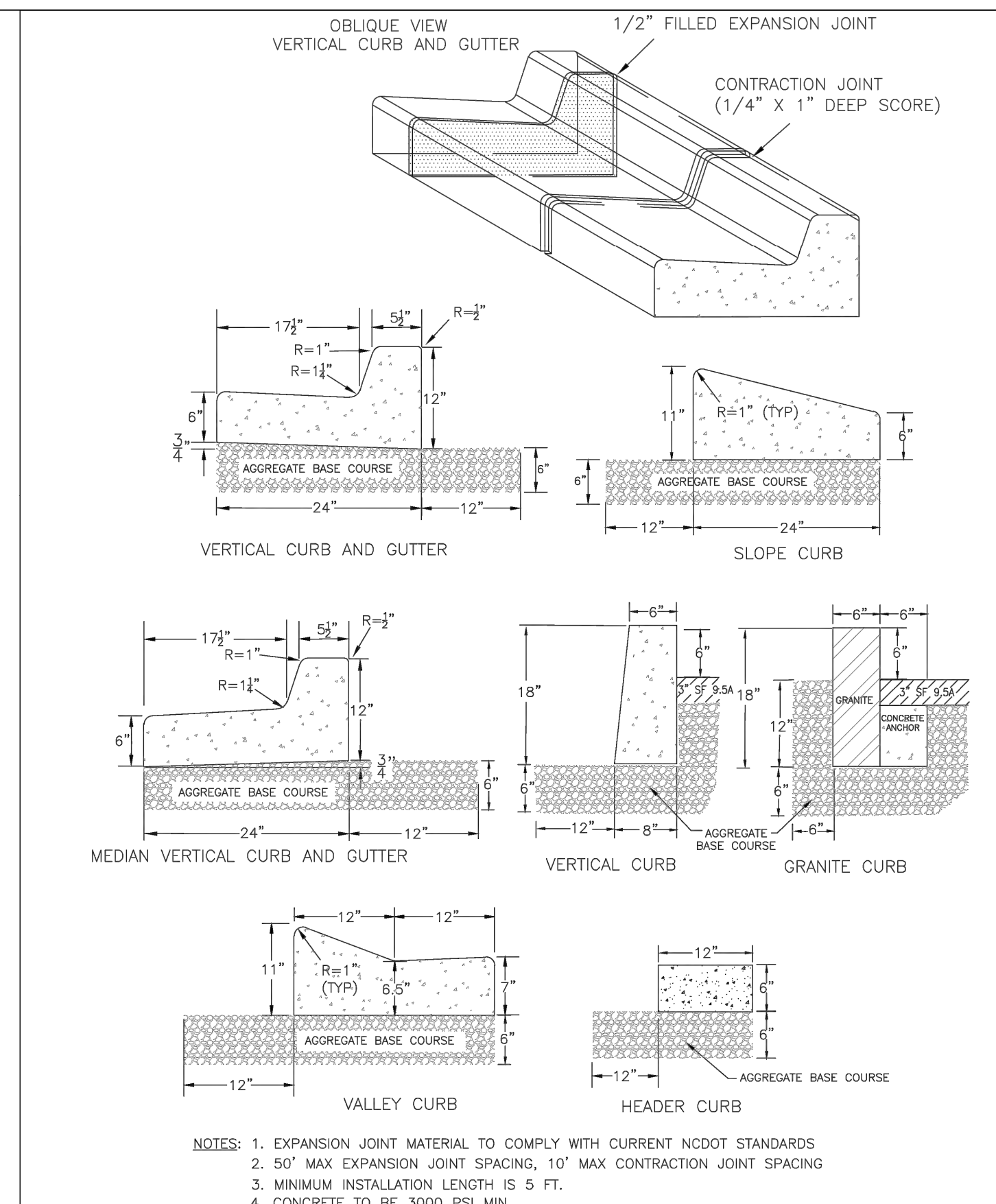
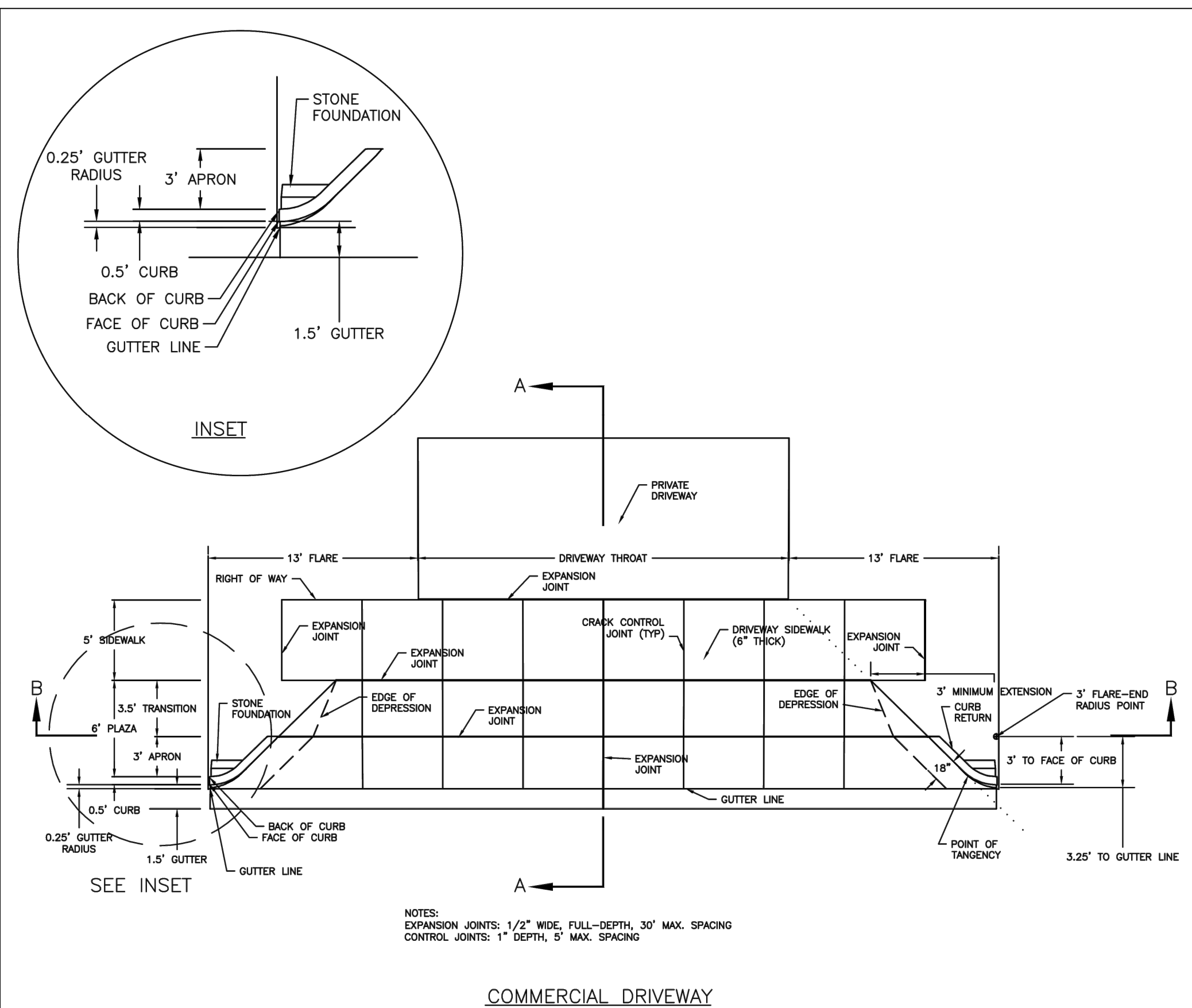
DATE: JUNE 1, 2015
 DRAWN BY: JSR
 CHECKED BY: D.E.C., P.E.
 SCALE: NOT TO SCALE

STANDARD DETAIL
COMMERCIAL DRIVEWAY PLAN

1 of 2

WILMINGTON
 CITY OF WILMINGTON ENGINEERING
 NORTH CAROLINA
 PO BOX 1810
 WILMINGTON, N.C. 28402
 (910) 341-7807

SD 3-03.3



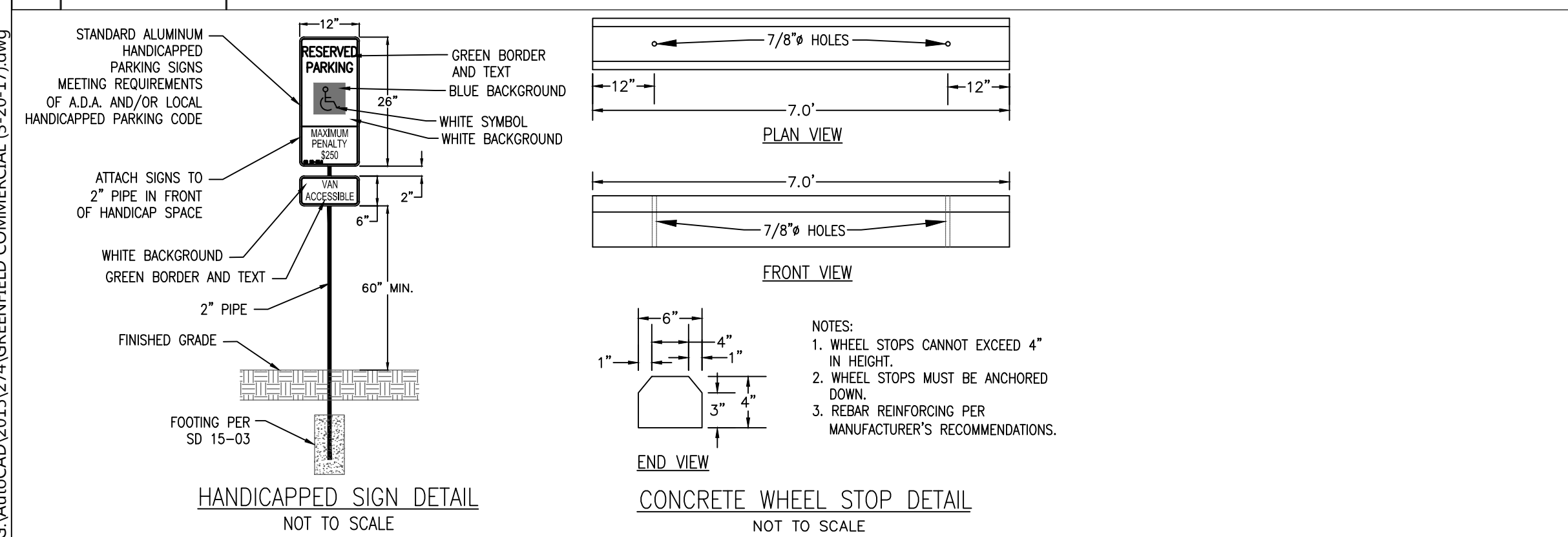
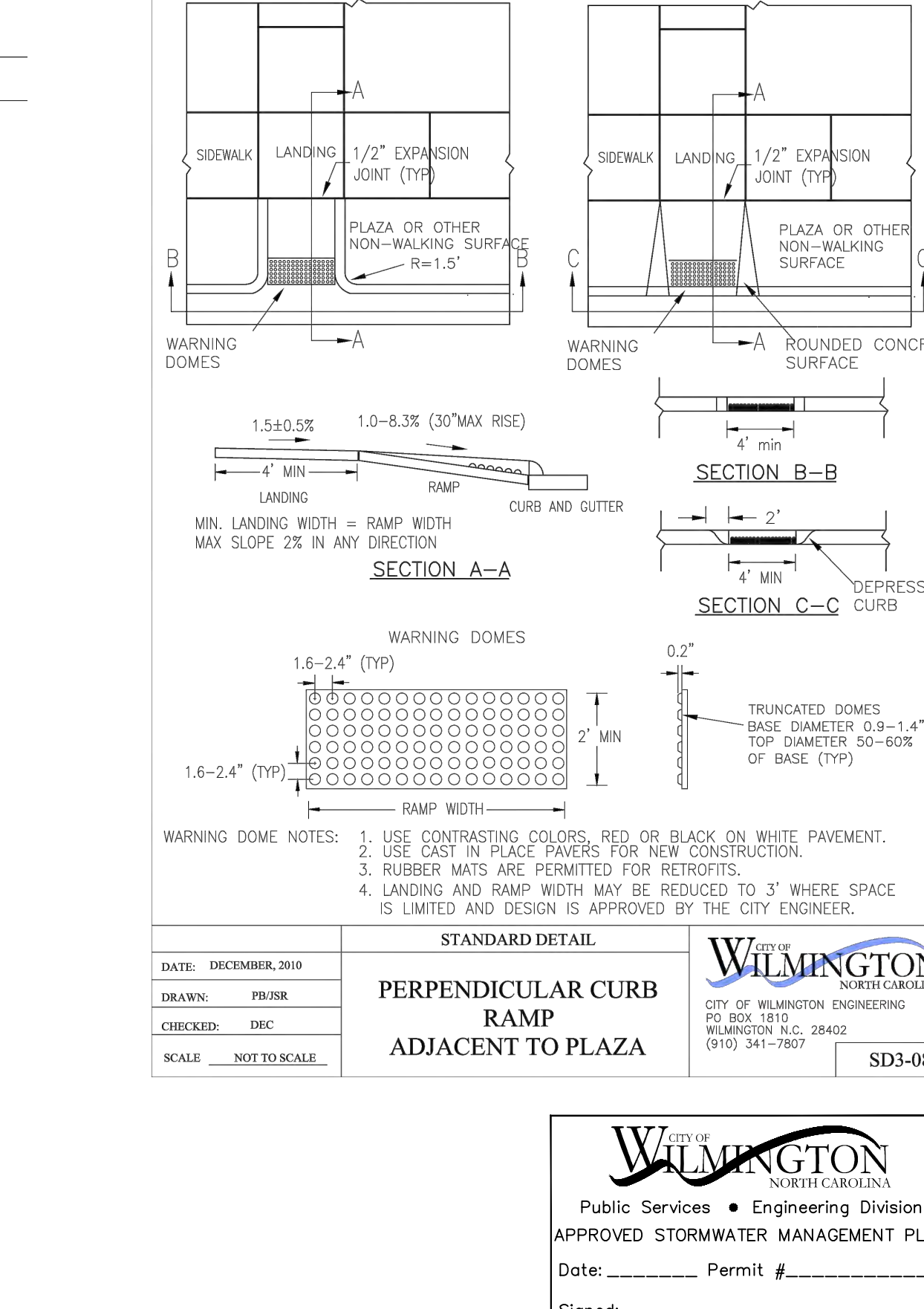
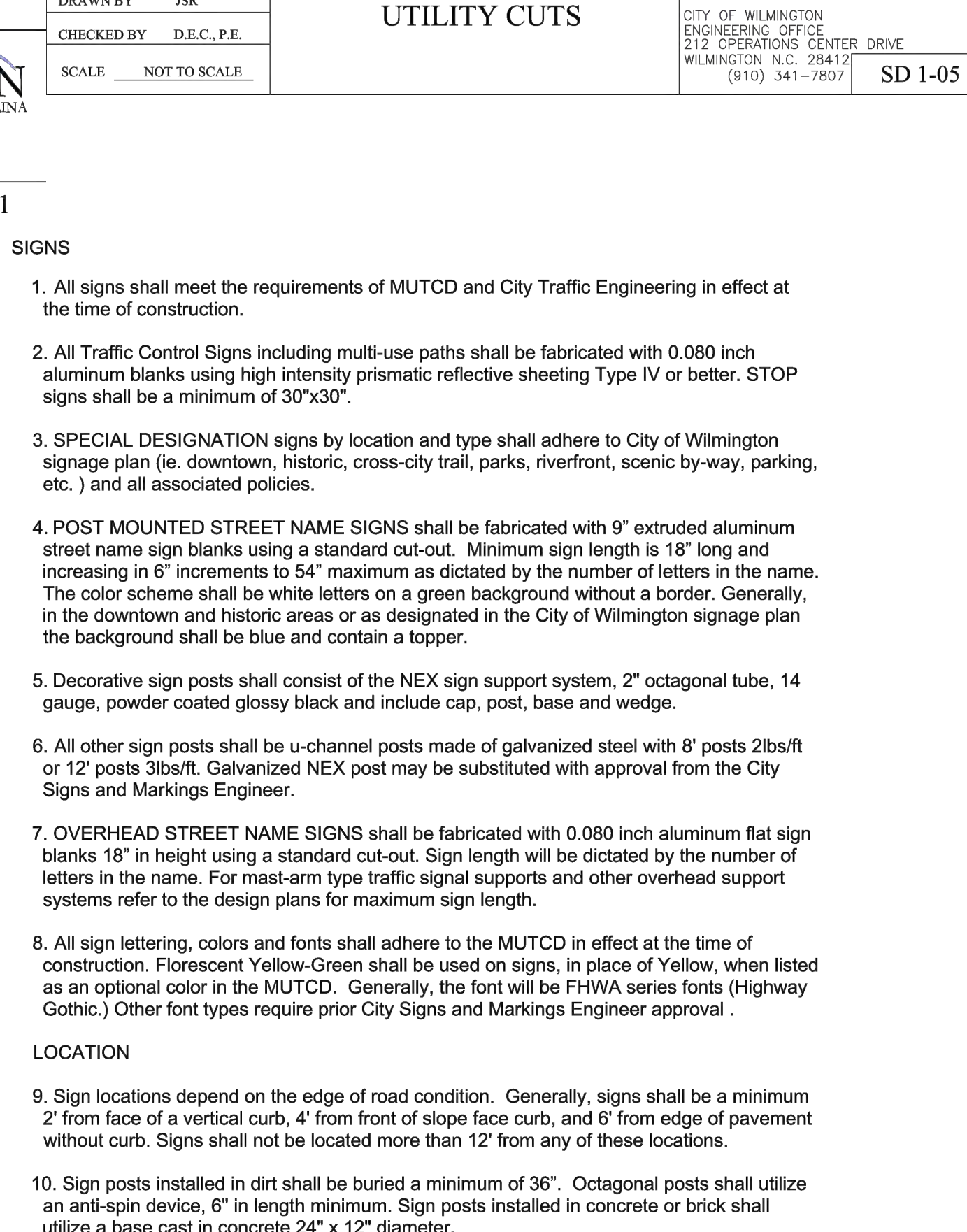
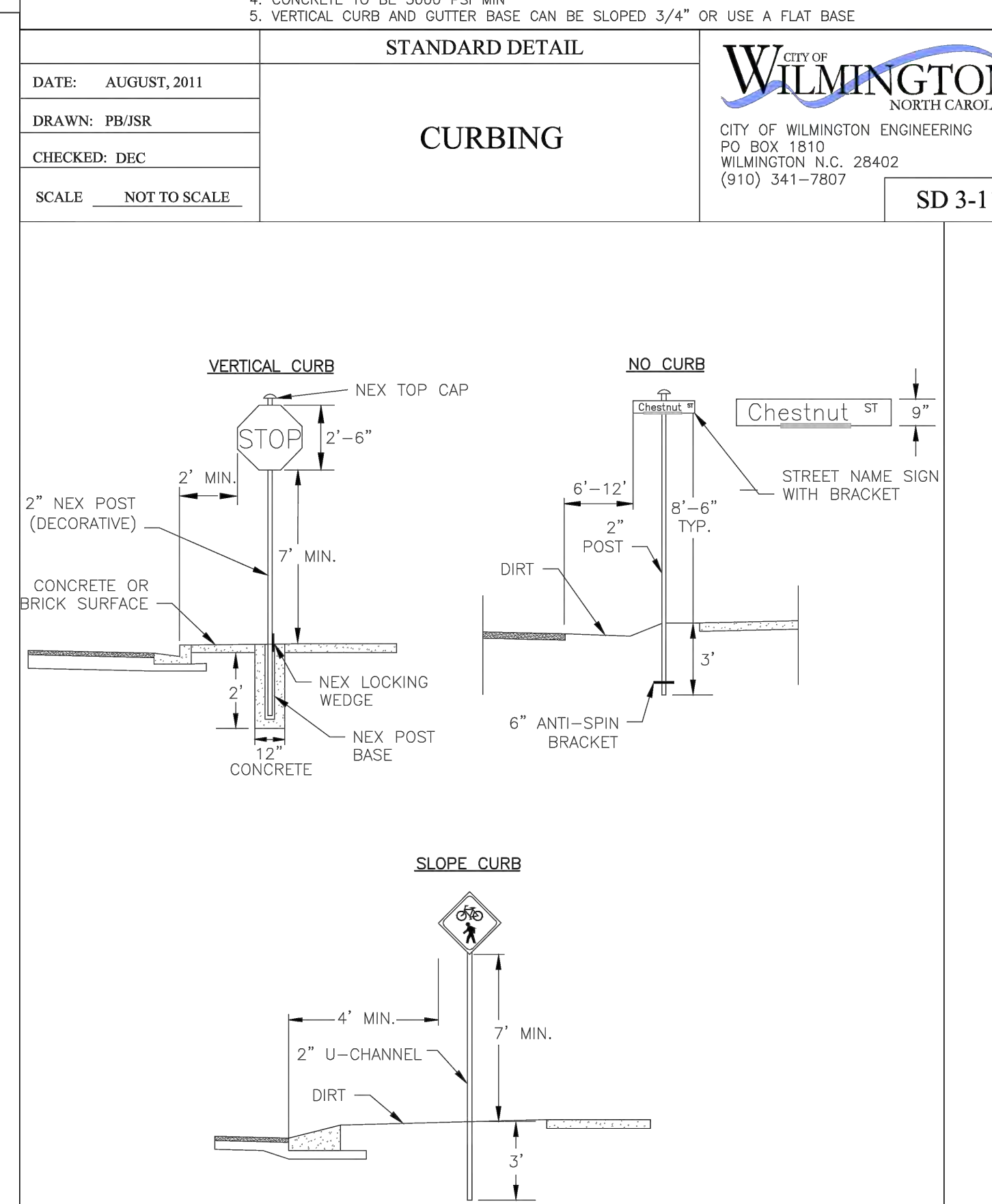
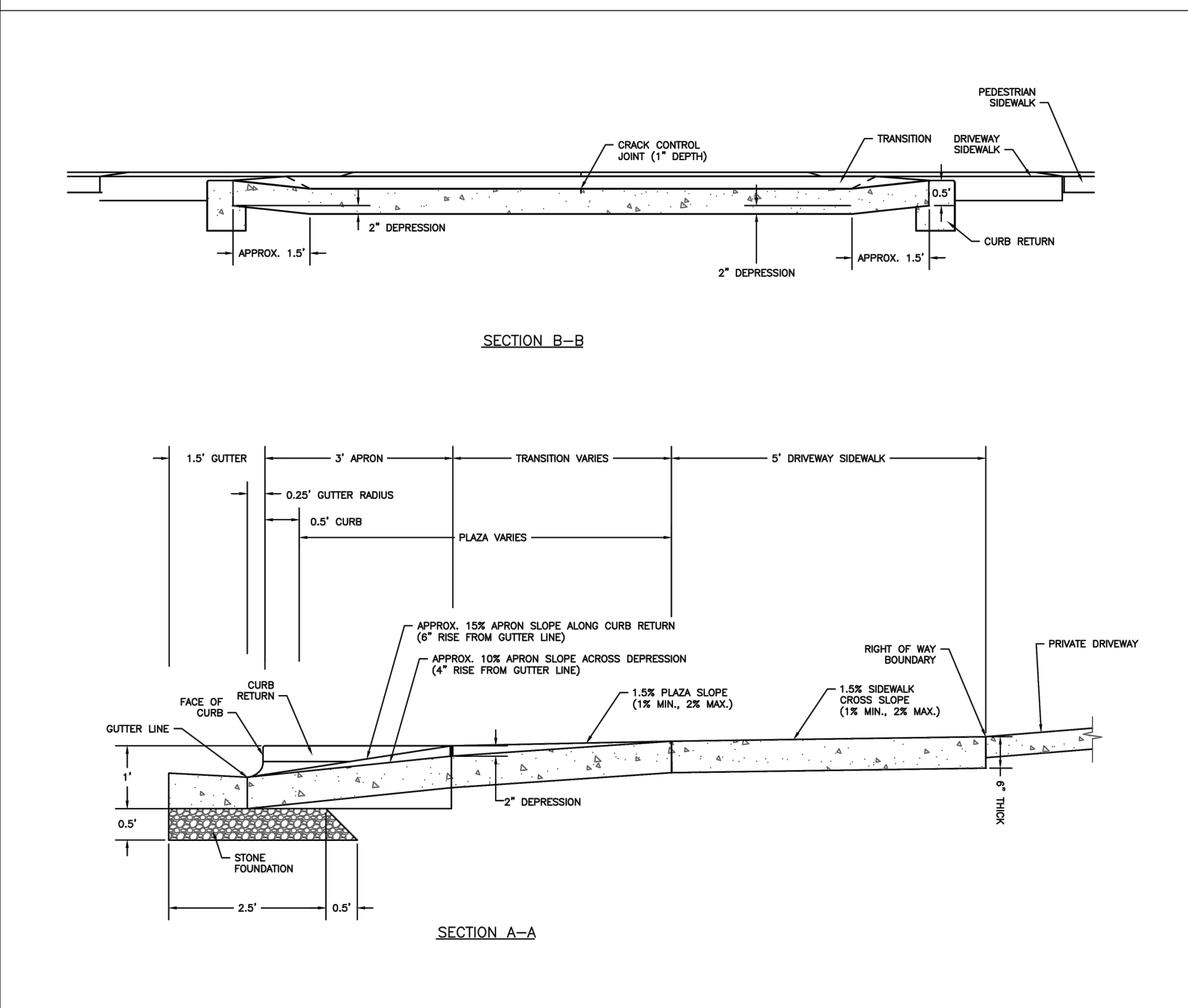
DATE: JUNE 1, 2015
 DRAWN BY: JSR
 CHECKED BY: D.E.C., P.E.
 SCALE: NOT TO SCALE

STANDARD DETAIL
COMMERCIAL DRIVEWAY SECTIONS

2 of 2

WILMINGTON
 CITY OF WILMINGTON ENGINEERING
 NORTH CAROLINA
 PO BOX 1810
 WILMINGTON, N.C. 28402
 (910) 341-7807

SD 3-03.4



DATE: NOVEMBER, 2011
 DRAWN BY: JSR
 CHECKED BY: HDR, P.E.
 SCALE: NOT TO SCALE

STANDARD DETAIL
STREET SIGNS AND LOCATION

SHEET 1 of 2

WILMINGTON
 CITY OF WILMINGTON ENGINEERING
 NORTH CAROLINA
 PO BOX 1810
 WILMINGTON, N.C. 28402
 (910) 341-7807

SD 15-03

DATE: NOVEMBER, 2011
 DRAWN BY: JSR
 CHECKED BY: HDR, P.E.
 SCALE: NOT TO SCALE

STANDARD DETAIL
STREET SIGNS AND LOCATION

SHEET 2 of 2

WILMINGTON
 CITY OF WILMINGTON ENGINEERING
 NORTH CAROLINA
 PO BOX 1810
 WILMINGTON, N.C. 28402
 (910) 341-7807

SD 15-03

DATE: 3-3-17
 SCALE: N.T.S.
 DRAWN: JCB
 CHECKED: JBM
 PROJECT NO: 274

Owner: GREENFIELD STREET PROPERTIES, LLC
 10 S. CAROLINA DRIVE
 WILMINGTON, NORTH CAROLINA 28403
 PHONE: 910-251-5630

APPROVED CONSTRUCTION PLAN
 Name: _____ Date: _____
 Planning: _____
 Traffic: _____
 Fire: _____

WILMINGTON TOWNSHIP NEW HANOVER COUNTY NORTH CAROLINA

GREENFIELD COMMERCIAL

1134 SHIPYARD BOULEVARD
 WILMINGTON, NORTH CAROLINA 28412
 Phone: 910-392-5243
 Fax: 910-392-5203 License No. C-2320

SHEET NO: 8 OF 11

STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C.

ENGLISH STANDARD DRAWING FOR CONCRETE CATCH BASIN 12" THRU 54" PIPE

GENERAL NOTES:
 USE CLASS "B" CONCRETE THROUGHOUT.
 PROVIDE ALL CATCH BASINS OVER 3'-6" IN DEPTH WITH STEPS 12" ON CENTER. USE STEPS WHICH COMPLY WITH STD. DRAWING 840.66.
 OPTIONAL CONSTRUCTION - MONOLITHIC POUR, 2" KEYWAY, OR #4 BAR DOWELS AT 12" CENTERS AS DIRECTED BY THE ENGINEER.
 USE FORMS FOR THE CONSTRUCTION OF THE BOTTOM SLAB.
 IF REINFORCED CONCRETE PIPE IS SET IN BOTTOM SLAB OF BOX, ADD TO SLAB AS SHOWN ON STD. NO. 840.00.
 USE TYPE "E", "F" AND "G" GRATES UNLESS OTHERWISE INDICATED.
 FOR 8'-0" IN HEIGHT OR LESS USE 8" WALLS AND BOTTOM SLAB. OVER 8'-0" TO 16'-0" IN HEIGHT USE 8" WALLS AND BOTTOM SLAB. ADJUST QUANTITIES ACCORDINGLY.
 CONSTRUCT WITH PIPE CROWNS MATCHING.
 CHAMFER ALL EXPOSED CORNERS 1".
 DRAWING NOT TO SCALE.

ENGLISH STANDARD DRAWING FOR CONCRETE CATCH BASIN 12" THRU 54" PIPE

SHEET 1 OF 2
840.02

STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C.

ENGLISH STANDARD DRAWING FOR FRAME, GRATES, AND HOOD FOR USE ON STANDARD CATCH BASIN

NOTE: USE TYPE "E", "F" AND "G" GRATE UNLESS OTHERWISE NOTED.

ALIGN FRAME WITH INSIDE EDGE OF WALL TO ALLOW FOR VERTICAL ADJUSTMENT FOR WALL SECTION

ENGLISH STANDARD DRAWING FOR FRAME, GRATES, AND HOOD FOR USE ON STANDARD CATCH BASIN

SHEET 1 OF 2
840.03

STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C.

ENGLISH STANDARD DRAWING FOR CONCRETE CATCH BASIN 12" THRU 54" PIPE

EXPANSION JOINTS
 STD. 840.03 FRAME, GRATE & HOOD
 PLAN
 CURB AND GUTTER WITH CATCH BASIN ON STEEP GRADES
 ELEVATION
 NORMAL CURB AND GUTTER ON LIGHT GRADES
 ELEVATION
 NORMAL CURB AND GUTTER ON STEEP GRADES
 ELEVATION

MINIMUM DIMENSIONS AND QUANTITIES FOR CONCRETE CATCH BASIN (BASED ON MIN. HEIGHT, H, WITH NO RISER) *																	
PIPE	DIMENSIONS OF BOX AND PIPE			COVER DIMENSION			BARS-U			TOTAL	CU. YDS. CONC. IN BOX	DEDUCTIONS					
	D	A	B	E	F	G	NO.	LENGTH	NO.			LENGTH	NO.	LENGTH	PER MIN. REBAR #	G.M.	R.C.
12"	3'-0"	2'-2"	2'-2"	3'-0"	3'-0"	3'-0"	4	1'-5"	2	3'-9"	3	3'-9"	0.235	0.772	0.015	0.026	
15"	3'-0"	2'-2"	2'-2"	3'-0"	3'-0"	3'-0"	4	1'-5"	2	3'-9"	3	3'-9"	0.235	0.829	0.023	0.036	
18"	3'-0"	2'-2"	2'-2"	3'-0"	3'-0"	3'-0"	4	1'-5"	2	3'-9"	3	3'-9"	0.235	0.887	0.033	0.049	
24"	3'-0"	2'-2"	2'-2"	3'-0"	3'-0"	3'-0"	4	1'-5"	2	3'-9"	3	3'-9"	0.235	1.001	0.059	0.085	
30"	3'-0"	2'-2"	2'-2"	3'-4"	3'-4"	3'-4"	4	1'-5"	2	3'-9"	3	3'-9"	0.123	0.321	1.433	0.092	0.127
36"	3'-0"	2'-2"	2'-2"	3'-10"	3'-10"	3'-10"	4	1'-5"	2	3'-9"	3	3'-9"	0.161	0.358	1.714	0.132	0.178
42"	3'-0"	2'-2"	2'-2"	4'-5"	4'-5"	4'-5"	4	1'-5"	2	3'-9"	3	3'-9"	0.112	0.318	1.738	0.160	0.243
48"	3'-0"	2'-2"	2'-2"	5'-0"	5'-0"	5'-0"	4	2'-3"	3	2'-11"	3	2'-11"	0.145	0.352	2.052	0.235	0.317
54"	3'-0"	2'-2"	2'-2"	5'-7"	5'-7"	5'-7"	4	2'-10"	5	2'-11"	3	2'-11"	0.180	0.386	2.387	0.297	0.401

* RISER HAS .228 CUBIC YARDS OF CONCRETE PER FOOT HEIGHT

ENGLISH STANDARD DRAWING FOR CONCRETE CATCH BASIN 12" THRU 54" PIPE

SHEET 2 OF 2
840.02

STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C.

ENGLISH STANDARD DRAWING FOR FRAME, GRATES, AND HOOD FOR USE ON STANDARD CATCH BASIN

DETAIL SHOWING TYPES OF GRATES USE ACCORDING TO WATER FLOW.

RAISED FLOW ARROW 1/16" HIGH

ENGLISH STANDARD DRAWING FOR FRAME, GRATES, AND HOOD FOR USE ON STANDARD CATCH BASIN

SHEET 2 OF 2
840.03

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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 _____

REV. NO.	DESCRIPTION	DATE
1	REVISED TO SWITCH DETAILS.	4-7-17

DETAIL SHEET
GREENFIELD COMMERCIAL
 WILMINGTON TOWNSHIP NEW HANOVER COUNTY NORTH CAROLINA

OWNER: GREENFIELD STREET PROPERTIES, LLC
 10 S. CARDINAL DRIVE
 WILMINGTON, NORTH CAROLINA 28412
 PHONE: 910-392-5243
 FAX: 910-392-5203 License No. C-2920

DATE: 3-3-17
 SCALE: N.T.S.
 DRAWN: JCB
 CHECKED: JBM
 PROJECT NO: 274
 SHEET NO: 9
 OF: 11

STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C.

1-12

ENGLISH STANDARD DRAWING FOR CONCRETE DROP INLET 12" THRU 30" PIPE

2" WEEP HOLES

PLAN

WITH GRATE & FRAME REMOVED

GENERAL NOTES:
 USE CLASS "B" CONCRETE THROUGHOUT.
 PROVIDE ALL DROP INLETS OVER 3'-6" IN DEPTH WITH STEPS 12" ON CENTER. USE STEPS WHICH COMPLY WITH STD. DRAWING 840.66.
 OPTIONAL CONSTRUCTION - MONOLITHIC POUR 2" KEYWAY OR #4 BAR DOWELS AT 12" CENTERS AS DIRECTED BY THE ENGINEER.
 USE FORMS FOR THE CONSTRUCTION OF THE BOTTOM SLAB.
 IF REINFORCED CONCRETE PIPE IS SET IN BOTTOM SLAB OF BOX, ADD TO SLAB AS SHOWN ON STD. NO. 840.00.
 CONSTRUCT WITH PIPE CROWNS MATCHING.
 SEE STANDARD DRAWING 840.25 FOR ATTACHMENT OF FRAMES AND GRATES NOT SHOWN.
 INSTALL 2" WEEPHOLES AS DIRECTED BY THE ENGINEER.
 INSTALL STONE DRAINS OF A MINIMUM OF 1 CUBIC FOOT OF NO. 78M STONE IN A POROUS FABRIC BAG OR WRAP, AT EACH WEEP HOLE OR AS DIRECTED BY THE ENGINEER. CHAMFER ALL EXPOSED CORNERS 1".
 DRAWING NOT TO SCALE.

SECTION X-X

SECTION Y-Y

MAX. PIPE THIS SIDE - 18"

DOWEL (SEE NOTE)

#4 BAR

DOWEL

DIMENSIONS AND QUANTITIES FOR DROP INLET (BASED ON MIN. HEIGHT, H)				CUBIC YARDS		DEDUCTIONS FOR ONE PIPE		
PIPE	SPAN	WIDTH	MIN. HEIGHT	BOTTOM SLAB	WALL PER FT. HT.	TOTAL CONCRETE FOR MINIMUM HEIGHT	C.M.	R.C.
12"	3'-0"	2'-0"	2'-0"	0.222	0.222	0.592	0.015	0.026
15"	/	/	2'-3"	/	/	0.648	0.023	0.036
18"	/	/	2'-6"	/	/	0.703	0.033	0.049
24"	3'-0"	3'-0"	3'-0"	0.814	0.814	0.814	0.059	0.085
30"	3'-0"	2'-0"	3'-6"	0.222	0.222	0.925	0.092	0.127

SHEET 1 OF 1

840.14

STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C.

1-12

ENGLISH STANDARD DRAWING FOR ANCHORAGE FOR FRAMES BRICK/CONCRETE/PRECAST CONCRETE

BRICK MASONRY CONSTRUCTION

CONCRETE CONSTRUCTION

PRECAST CONCRETE CONSTRUCTION

DETAIL SHOWING ANCHORAGE OF FRAME FOR GRATED DROP INLET

NOTE:
 CONSTRUCT GRATED DROP INLET TO COINCIDE WITH NORMAL OR SUPERELEVATED SHOULDER OR PAVEMENT SLOPE.

MASONRY ANCHOR

CONCRETE ANCHOR

PRECAST CONCRETE ANCHOR

3/8" DIA. BOLT WITH PLATE

3/8" DIA. BENT BAR

3/8" DIA. BENT BAR

FRAME AND GRATE INSTALLATION FOR NORMAL CROWN AND SUPERELEVATED SECTIONS

SHEET 1 OF 1

840.25

STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C.

1-12

ENGLISH STANDARD DRAWING FOR DROP INLET FRAME AND GRATES FOR USE WITH STD. DWG. S 840.14 AND 840.15

SECTION G-G

1" DEPRESSION

PLAN OF GRATING

CAST IRON

SECTION E-E

SECTION F-F

SECTION H-H

SHEET 1 OF 1

840.16

STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C.

1-12

ENGLISH STANDARD DRAWING FOR DRAINAGE STRUCTURE STEPS

NOTE:
 INSTALL ALL STEPS PROTRUDING 4" FROM INSIDE FACE OF STRUCTURE WALL.
 STEPS DIFFERING IN DIMENSIONS, CONFIGURATION, OR MATERIALS FROM THOSE SHOWN MAY ALSO BE USED PROVIDED THE CONTRACTOR HAS FURNISHED THE ENGINEER WITH DETAILS OF THE PROPOSED STEPS AND HAS RECEIVED WRITTEN APPROVAL FROM THE ENGINEER FOR THE USE OF SUCH STEPS.

PLAN

SIDE ELEVATION

CAST IRON

PLAN

SIDE ELEVATION

COMPOSITE

POLYPROPYLENE PLASTIC

#3 DEFORMED STEEL ROD

PLAN

SIDE ELEVATION

REINFORCING STEEL

NOTE:
 DO NOT USE IN SANITARY SEWER MANHOLES.

SHEET 1 OF 1

840.66

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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 _____

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

REV. NO.	DESCRIPTION	DATE
1	REVISED TO SWITCH DETAILS.	6-7-17

DETAIL SHEET

GREENFIELD COMMERCIAL

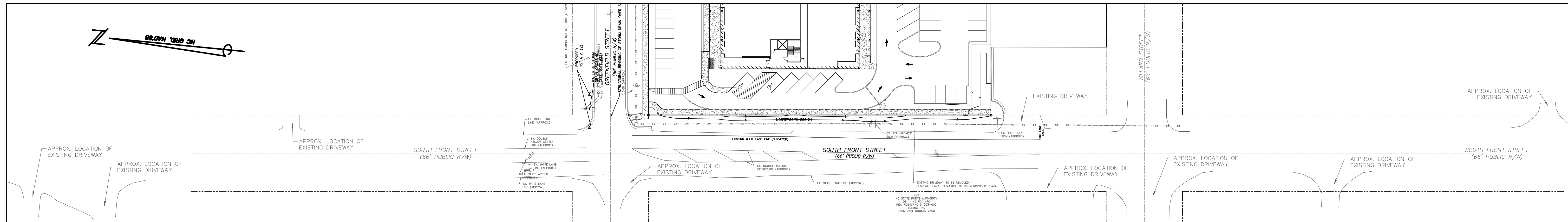
WILMINGTON TOWNSHIP NEW HANOVER COUNTY NORTH CAROLINA

MALPASS ENGINEERING & SURVEYING, P.C.
 1134 SHIPYARD BOULEVARD
 WILMINGTON, NORTH CAROLINA 28412
 Phone 910-392-5243
 Fax 910-392-5203 License No. C-2920

Owner: GREENFIELD STREET PROPERTIES, LLC
 10 S. CARDINAL DRIVE
 WILMINGTON, NORTH CAROLINA 28403
 PHONE: 910-251-5630

DATE: 3-3-17
 SCALE: N.T.S.
 DRAWN: JCB
 CHECKED: JBM
 PROJECT NO: 274

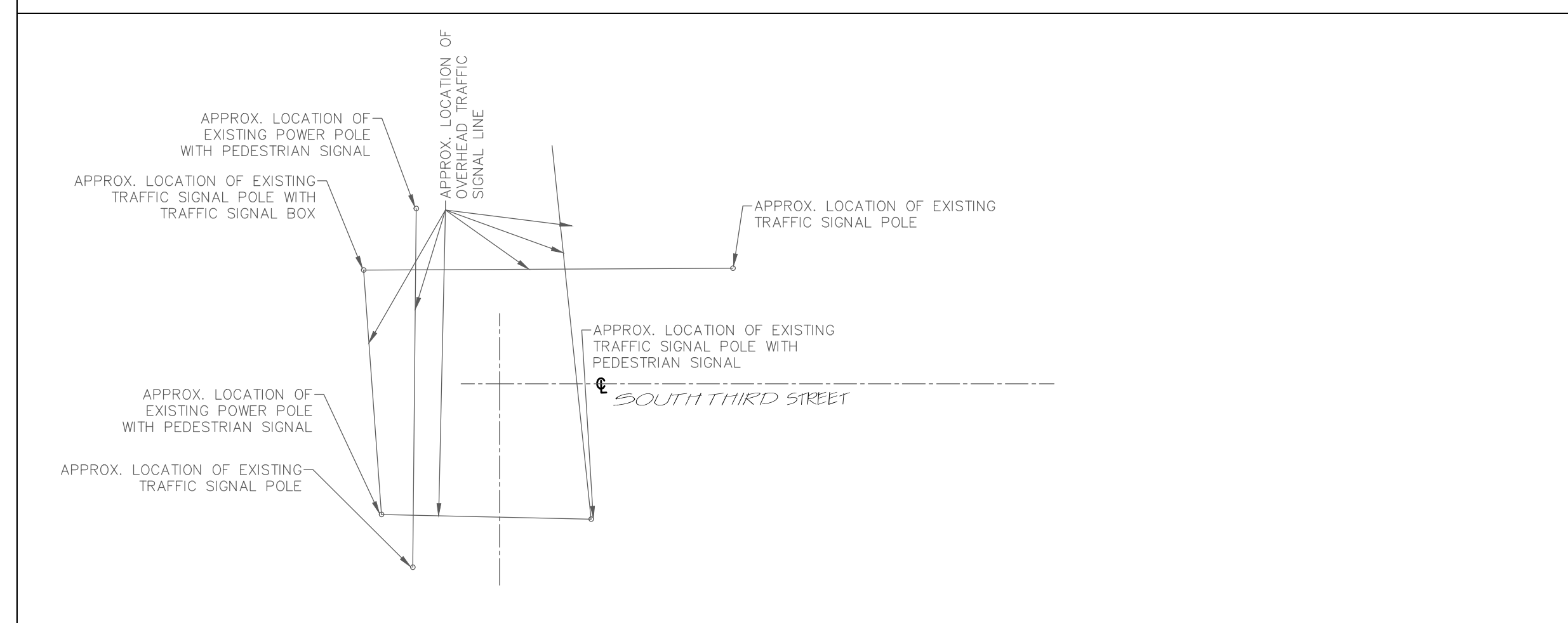
SHEET NO: 10 OF 11



NOTE: DRIVEWAYS TRACED FROM NHC GIS 2010 AERIAL.

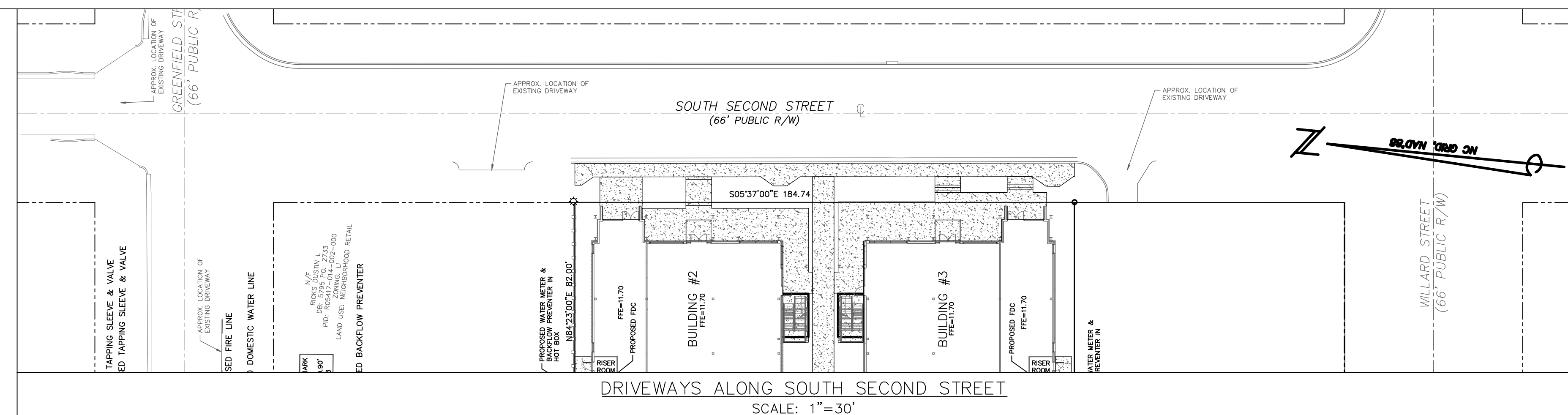
DRIVEWAYS WITHIN 500' OF SITE ALONG SOUTH FRONT STREET

SCALE: 1"=40'



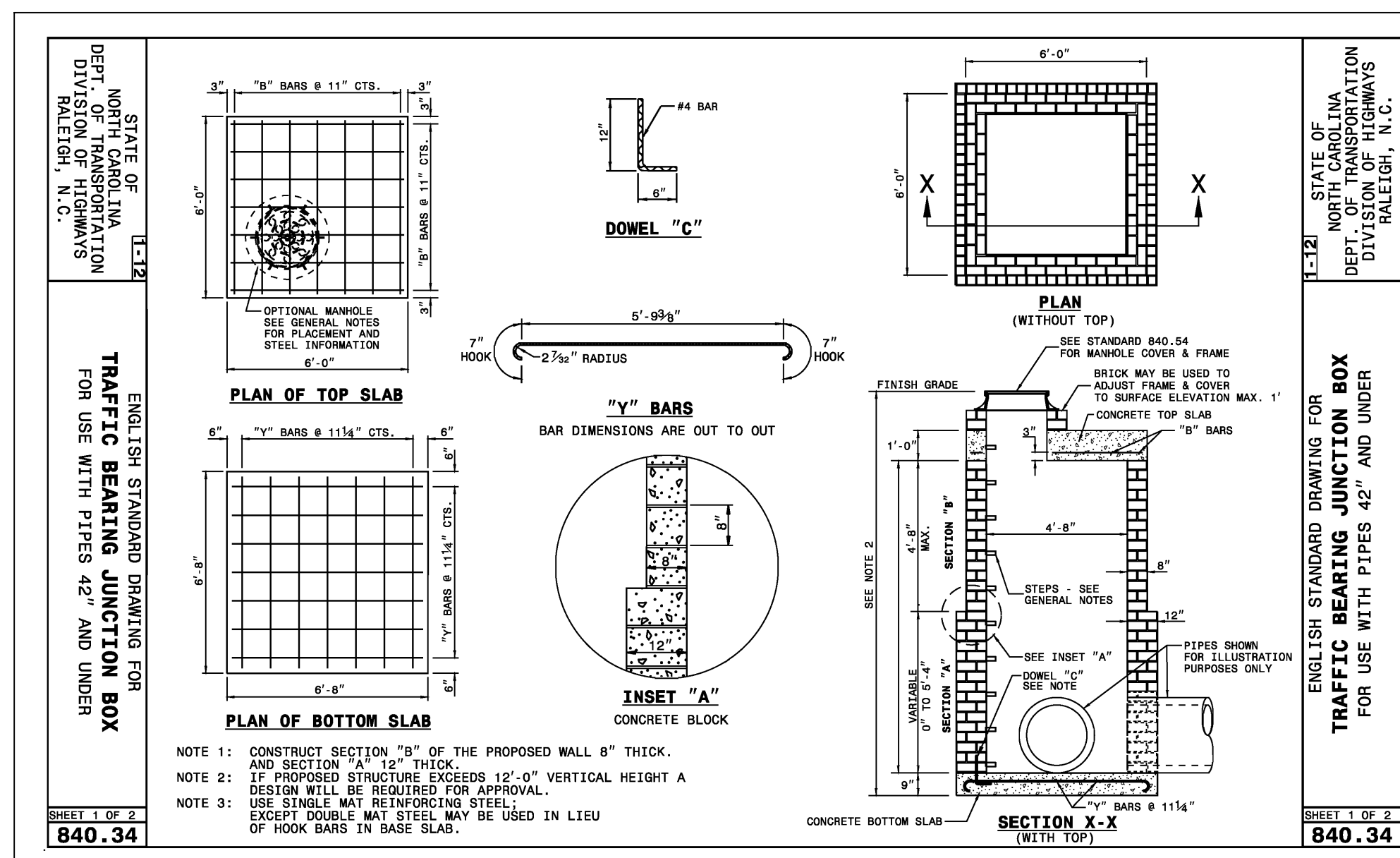
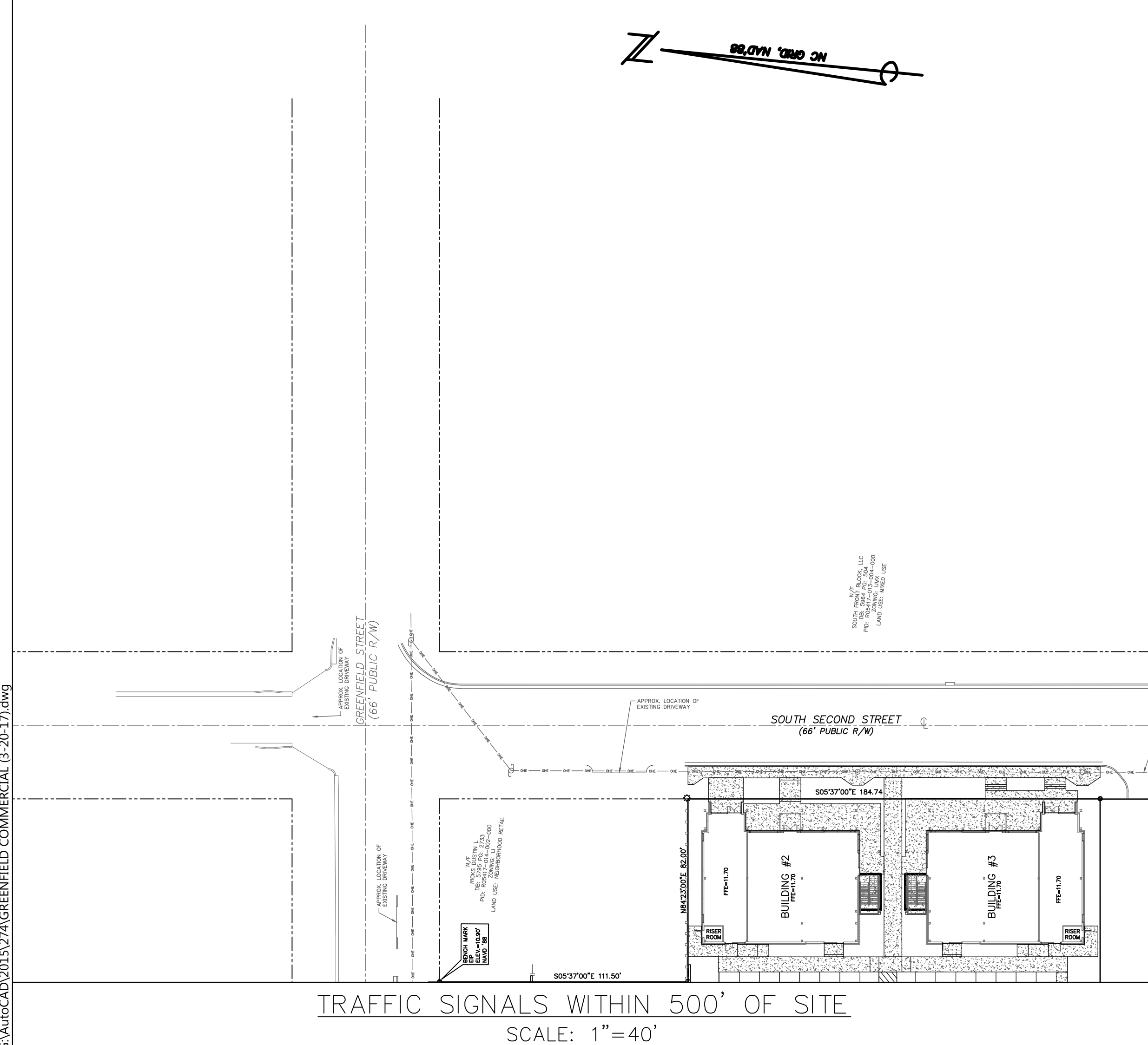
TRAFFIC SIGNALS WITHIN 500' OF SITE

SCALE: 1"=40'



DRIVEWAYS ALONG SOUTH SECOND STREET

SCALE: 1"=30'



SHEET 1 OF 2
840.34

SHEET 1 OF 2
840.34

STATE OF NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

ENGLISH STANDARD DRAWING FOR
TRAFFIC BEARING JUNCTION BOX
FOR USE WITH PIPES 42" AND UNDER

STATE OF NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

ENGLISH STANDARD DRAWING FOR
TRAFFIC BEARING JUNCTION BOX
FOR USE WITH PIPES 42" AND UNDER

SHEET 2 OF 2
840.34

SHEET 2 OF 2
840.34

GENERAL NOTES:
USE STANDARD OR JUMBO BRICK FOR WALL CONSTRUCTION. SOLID CONCRETE BRICK OR BLOCK ARE OPTIONAL WALL CONSTRUCTION MATERIAL.
PRECAST UNITS MADE OF CLASS "AA" CONCRETE MAY BE USED IN LIEU OF BRICK MASONRY CONSTRUCTION. SUBMIT DESIGN OF PRECAST UNITS FOR APPROVAL PRIOR TO CONSTRUCTION.
INCLUDE ALL ADJUSTMENTS TO WALLS, SLABS OR REINFORCING MATERIAL IN THE UNIT PRICE BID FOR EACH UNIT.
INSTALL OPTIONAL MANHOLE IN POSITION AS DIRECTED BY THE ENGINEER. CUT OR BEND ALL REINFORCING TIES OPENING TO ALLOW 2" MINIMUM CONCRETE COVERAGE. ENCLOSE THE OPENING WITH 8" BARS TIED TO THE REBAR MAT AND SET SO A MINIMUM OF 3" CONCRETE COVER IS ATTAINED. REFERENCE STD. NO. 840.54 FOR MANHOLE INFORMATION.
PROVIDE JUNCTION BOXES WITH MANHOLES OVER 3'-6" IN DEPTH WITH STEPS PLACED ON 12" CENTERS. REFERENCE STD. NO. 840.66.
MAXIMUM DEPTH OF THIS UNIT AS SHOWN IS 12".
CONSTRUCT THE JUNCTION BOX IN ACCORDANCE WITH SECTIONS 830, 832, 834 AND 840 OF THE STANDARD SPECIFICATIONS.

BAR	QTY	SIZE	LENGTH	WEIGHT
A	8	#5	1'-0"	9.7
B	14	#5	5'-6"	82.9
C	28	#4	1'-0"	26.1
Y	14	#5	16'-11 1/2"	101.5
STEEL TOTAL WEIGHT: 217.6				
CONC.	YIELD CLASS "AA" CONC.	2.8		
CONC.	YIELD STRENGTH (FT. LB.)	0.63		
CONC.	YIELD STRENGTH (FT. LB.)	0.84		

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

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

Name _____ Date _____
Planning _____
Traffic _____
Signed: _____ Fire _____

ADJACENT DRIVEWAYS, TRAFFIC SIGNALS, & DETAIL SHEET
GREENFIELD COMMERCIAL
WILMINGTON TOWNSHIP NEW HANOVER COUNTY NORTH CAROLINA

DATE: 3-3-17
SCALE: N.T.S.
DRAWN: JCB
CHECKED: JBM
PROJECT NO: 274

FINAL DRAWING FOR REVIEW PURPOSES ONLY

MALPASS ENGINEERING & SURVEYING, P.C.
1134 SHIPYARD BOULEVARD
WILMINGTON, NORTH CAROLINA 28412
Phone: 910-392-5243
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Owner: GREENFIELD STREET PROPERTIES, LLC
10 S. CAROLINA DRIVE
WILMINGTON, NORTH CAROLINA 28403
PHONE: 910-251-5630

SHEET NO: 11
OF: 11

REV. NO.	DESCRIPTION	DATE
1	REVISED PER CLIENT.	4-7-17