

LOCATION MAP

# TIBURON PARC APARTMENTS

WILMINGTON, NC  
NEW HANOVER COUNTY

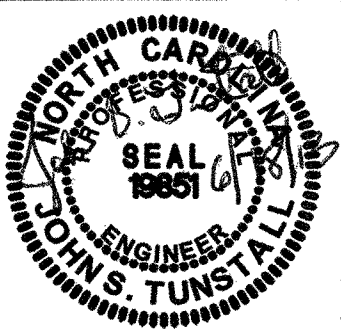
SYMBOL	DATE	DESCRIPTION	BY
		REVISIONS	
		© 2012 NORRIS & TUNSTALL	

COVER SHEET  
TIBURON PARC APARTMENTS  
2945 MOYNET WAY  
WILMINGTON, NORTH CAROLINA

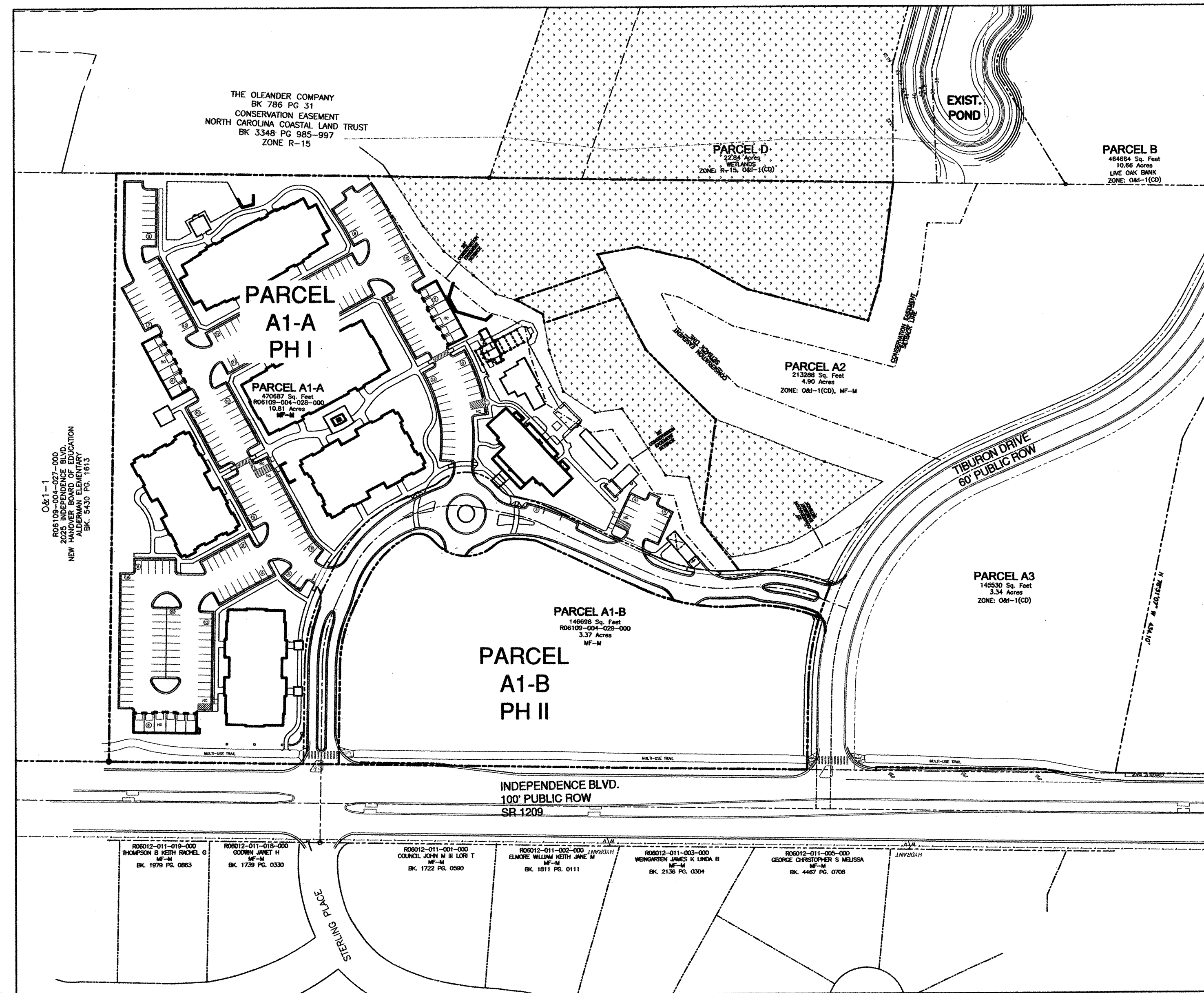
OWNER:  
NELSON MACRAE  
MIDTOWN ONE, LLC  
P.O. BOX 3145  
WILMINGTON, N.C. 28408  
910-392-3300

NORRIS & TUNSTALL  
CONSULTING ENGINEERS, INC.  
1127 FLORAL PARKWAY SUITE 400  
WILMINGTON, NC, 28403  
PHONE (910) 343-9653  
FAX (910) 343-9604  
office@nkteng.com  
licence #C-3641

HUD/PERMIT SET  
12073  
DES. JUST  
CHK. JPN  
DRWN. NKS  
DATE 6/18/13

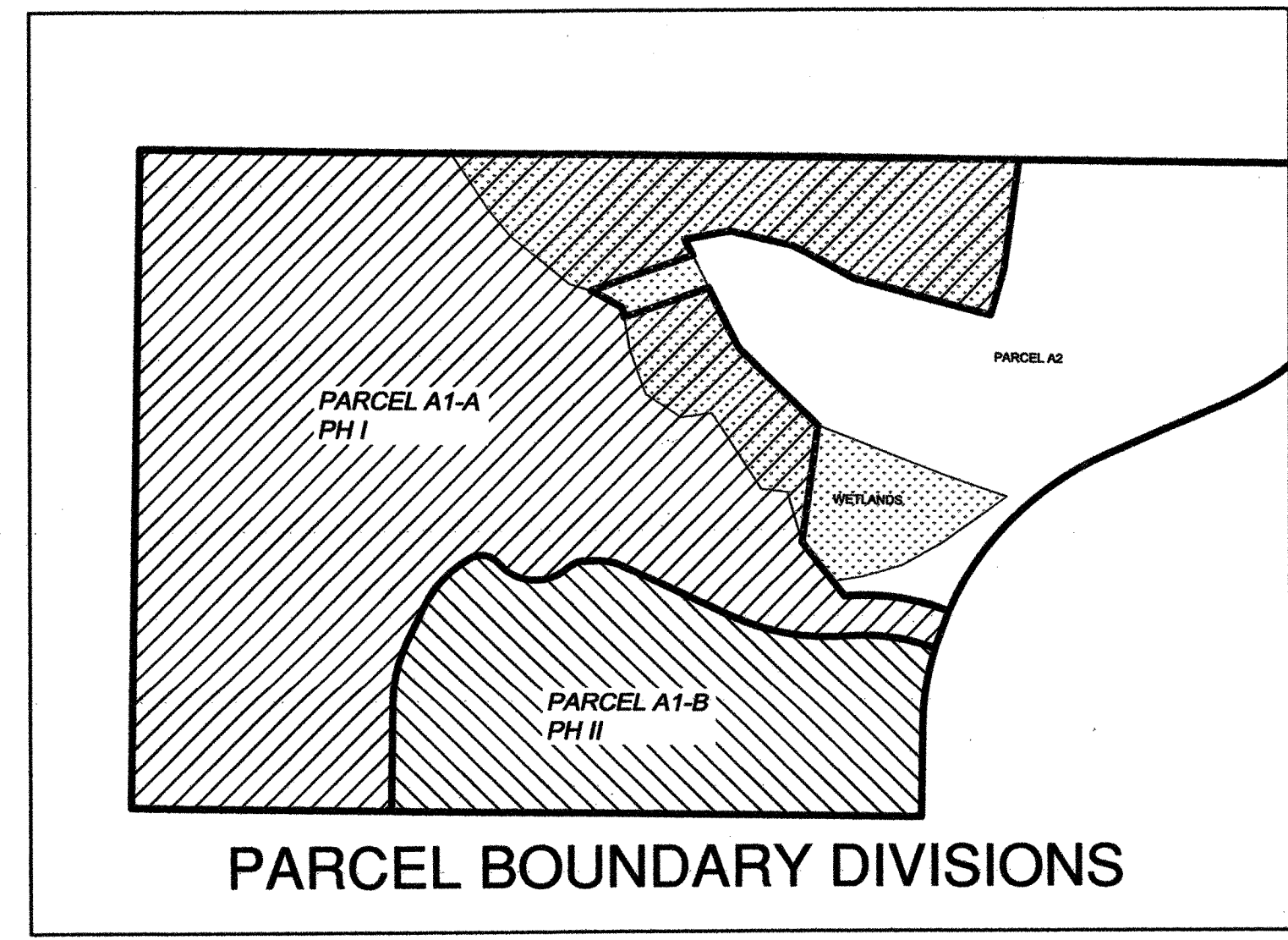


CO



LEGEND

	PROPERTY LINE
	CONSERVATION EASEMENT SETBACK LINE
	EXISTING WETLANDS



NOT TO SCALE

**OWNER/DEVELOPER**  
NELSON MACRAE MIDTOWN ONE, LLC  
P.O. BOX 3145  
WILMINGTON, N.C. 28406  
910-392-3300

**SURVEYOR**  
HANOVER DESIGN SERVICES, P.A.  
1123 FLORAL PARKWAY  
WILMINGTON NC 28403  
910-343-8002

**NORRIS & TUNSTALL**  
**CONSULTING ENGINEERS, INC.**

1127 FLORAL PARKWAY SUITES 300 & 400  
WILMINGTON, NC, 28403  
PHONE (910) 343-9653  
FAX (910) 343-9604  
office@nkteng.com  
licence #C-0520

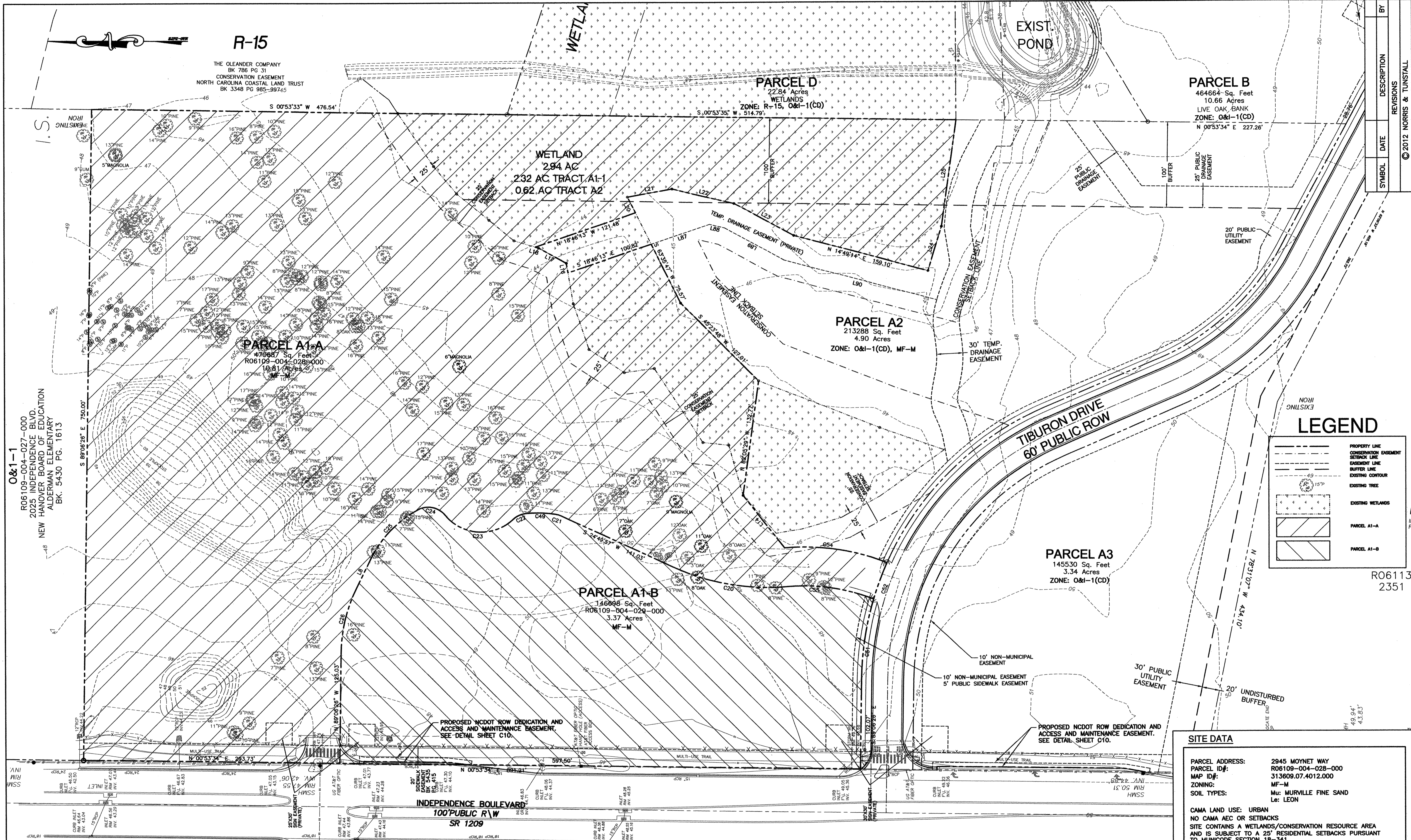
For each open utility cut of City streets, a \$325 permit shall be required from the City prior to occupancy and/or project acceptance.

NCDENR PWSS WATER PERMIT #:	
WATER CAPACITY:	GPD
DWQ SEWER PERMIT #:	
SEWER CAPACITY:	GPD
SEWER SHED # AND PLANT:	
SEWER TO FLOW THROUGH NEI:	YES or NO (CIRCLE ONE)

**CITY OF WILMINGTON**  
NORTH CAROLINA  
Public Services • Engineering Division  
APPROVED STORMWATER MANAGEMENT PLAN  
Date: 6/28/13 Permit # 2013020  
Signed: [Signature]

**Approved Construction Plan**  
Name: [Signature] Date: 6/28/13  
Planning: [Signature] Date: 6/27/13  
Traffic: [Signature] Date: 7/1/13  
Fire: [Signature]

SCALE: 1" = 100'



R-15

THE OLEANDER COMPANY  
BK 786 PG 31  
CONSERVATION EASEMENT  
NORTH CAROLINA COASTAL LAND TRUST  
BK 3348 PG 985-99745

PARCEL D  
22.84 Acres  
WETLANDS  
ZONE: R-15, O&I-1(CD)

PARCEL B  
464664-Sq. Feet  
10.66 Acres  
LIVE OAK BANK  
ZONE: O&I-1(CD)  
N 00°53'34" E 227.26'

WETLAND  
2.94 AC  
232 AC TRACT A1-1  
0.62 AC TRACT A2

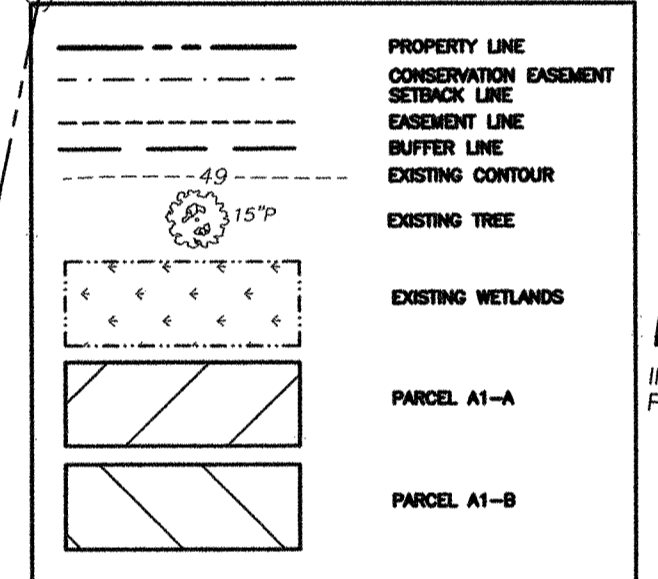
PARCEL A1-A  
470887 Sq. Feet  
R06109-004-028-000  
10.81 Acres

PARCEL A2  
213288 Sq. Feet  
4.90 Acres  
ZONE: O&I-1(CD), MF-M

PARCEL A3  
145530 Sq. Feet  
3.34 Acres  
ZONE: O&I-1(CD)

PARCEL A1-B  
146688 Sq. Feet  
R06109-004-029-000  
3.37 Acres  
MF-M

LEGEND

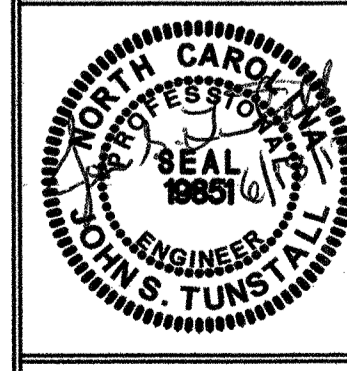


R06113  
2351

SITE DATA

PARCEL ADDRESS: 2945 MOYNET WAY  
 PARCEL ID#: R06109-004-028-000  
 MAP ID#: 313609.07.4012.000  
 ZONING: MF-M  
 SOIL TYPES: Mu: MURVILLE FINE SAND  
 Le: LEON  
 CAMA LAND USE: URBAN  
 NO CAMA AEC OR SETBACKS  
 SITE CONTAINS A WETLANDS/CONSERVATION RESOURCE AREA AND IS SUBJECT TO A 25' RESIDENTIAL SETBACKS PURSUANT TO MUNICIPAL SECTION 18-341.  
 HISTORICAL SITE: NONE  
 CEMETERY: NONE  
 FORESTED AREA: SEE PLAN FOR TREE SURVEY  
 WETLANDS: SEE PLAN FOR DELINEATION  
 ENDANGERED SPECIES/HABITAT: NONE REPORTED

HUD/PERMIT SET  
12073  
DES: JST  
ORD: JPN  
DRW: NKS  
DATE: 6/18/13



11

O&I-1  
R06109-004-027-000  
2025 INDEPENDENCE BLVD.  
NEW HANOVER BOARD OF EDUCATION  
ALDERMAN ELEMENTARY  
BK. 5430 PG. 1613

PROPOSED NCDOT ROW DEDICATION AND ACCESS AND MAINTENANCE EASEMENT. SEE DETAIL SHEET C10.

PROPOSED NCDOT ROW DEDICATION AND ACCESS AND MAINTENANCE EASEMENT. SEE DETAIL SHEET C10.

INDEPENDENCE BOULEVARD  
100' PUBLIC R/W  
SR 1209

R06012-011-018-000 THOMPSON B KEITH RACHEL G MF-M BK. 1979 PG. 0863  
 R06012-011-019-000 GODWIN JANET H MF-M BK. 1739 PG. 0330

R06012-011-001-000 COUNCIL JOHN M III LORI T MF-M BK. 1722 PG. 0590  
 R06012-011-002-000 ELMORE WILLIAM KEITH JANE M MF-M BK. 1811 PG. 0111  
 R06012-011-003-000 WEINGARTEN JAMES K LINDA B MF-M BK. 2136 PG. 0304  
 R06012-011-005-000 GEORGE CHRISTOPHER S MELISSA MF-M BK. 4467 PG. 0708

NCDENR PWSS WATER PERMIT #:  
 WATER CAPACITY: \_\_\_\_\_ GPD  
 DWQ SEWER PERMIT #:  
 SEWER CAPACITY: \_\_\_\_\_ GPD  
 SEWER SHED # AND PLANT:  
 SEWER TO FLOW THROUGH NEI: YES or NO (CIRCLE ONE)

**CITY OF WILMINGTON**  
 NORTH CAROLINA  
 Public Services • Engineering Division  
 APPROVED STORMWATER MANAGEMENT PLAN  
 Date: 6/28/13 Permit # 2013020  
 Signed: [Signature]

Approved Construction Plan  
 Name: [Signature] Date: 6/28/13  
 Planning: [Signature] 6/27/13  
 Traffic: [Signature] 7/1/13  
 Fire: [Signature] 7/1/13

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

**SURVEYOR:**  
 TOPOGRAPHIC SURVEY & COMPOSITE MAP BY:  
 HANOVER DESIGN SERVICES, P.A.  
 LAND SURVEYORS, ENGINEERS, LAND PLANNERS  
 319 WALNUT STREET  
 WILMINGTON, N.C. 28401  
 PHONE: 910-343-0022  
 FAX: 910-343-0941

**APPLICANT/PREPARER OF PLAN:**  
 NORRIS & TUNSTALL CONSULTING ENGINEERS, INC.  
 1127 FLORAL PARKWAY  
 SUITE 300/400  
 WILMINGTON, NC, 28403  
 PHONE (910) 343-9653  
 (910) 343-9604 FAX  
 LICENCE #C-3641

**OWNER:**  
 NELSON MACRAE  
 MIDTOWN ONE, LLC  
 P.O. BOX 3145  
 WILMINGTON, N.C. 28406  
 910-392-3300

NOTES:  
 1. THE ALDERMAN PRESERVE SIGNIFICANT NATURAL HERITAGE AREA AND FEDERAL AND STATE LISTED SPECIES OF CONCERN ARE PRESENT TO THE EAST OF THIS PROJECT.  
 2. THE CONSERVATION RESOURCE SHALL BE PERMANENTLY PROTECTED AND SHALL NOT BE CLEARED OF VEGETATION. SHALL BE FREE OF DEVELOPMENT IMPACTS. SHALL REMAIN UNDIVIDED. SHALL BE PERMANENTLY PRESERVED BY A CONSERVATION EASEMENT.

SCALE: 1" = 50'  
 0 50 100 150

# BUILDING DATA PHASE I

BUILDING TYPE	# ON SITE	STORIES	HEIGHT	UNITS/BUILDING	UNITS/TOTAL	BLDG. AREA TOTAL	FOOTPRINT TOTAL
TYPE I	1	3	39'±	24	24	25,563 SF	10,955 SF
TYPE II	1	3	38.5'±	24	24	31,875 SF	13,350 SF
TYPE III	2	3	38'±	30	60	51,126 SF	21,460 SF
TYPE IV	1	4	49.5'±	32	32	40,126 SF	13,020 SF
TYPE V	1	2	33'±	5	5	9,330 SF	6,000 SF
GARAGE	3	1	14.5'±			6,321 SF	6,321 SF
MAIL KIOSK	1	1	14.5'±			544 SF	830 SF
POOL HOUSE	1	1	14.5'±			683 SF	1,380 SF
<b>TOTAL</b>	<b>11</b>				<b>145</b>	<b>165,568 SF</b>	<b>73,316 SF</b>

BUILDING TYPE	CONSTRUCTION TYPE	1 BR	2 BR	3 BR	TOTAL UNITS	BLDG AREA	FOOT PRINT	APPROX. BLDG. DIMS AT WIDEST POINT
TYPE I	V-B	12	12		24	25,563 SF	10,955 SF	150' X 79'
TYPE II	V-B		12	12	24	31,875 SF	13,350 SF	197' X 75'
TYPE III	V-B	24	6		30	25,563 SF	10,730 SF	142' X 83'
TYPE IV	V-A		32		32	40,126 SF	13,020 SF	177' X 79'
TYPE V		5			5	9,330 SF	6,000 SF	123' X 65'
GARAGE						2,107 SF	2,107 SF	81' X 26'
MAIL KIOSK						544 SF	830 SF	43' X 21'
POOL HOUSE						683 SF BLDG. 697 SF CANOPY	1,380 SF	47.5' X 20' 20' X 34'

# WATER/SEWER USAGE PHASE I

BLDG. TYPE	DOMESTIC GPM*	DOMESTIC GPD*	NCDENR SEWER (15A, 2T RULES GPD)
TYPE I	55 GPM	2160 GPD	24X240 GPD=5760 GPD
TYPE II	60.5 GPM	3600 GPD	12X240 GPD+12X360 GPD=7200 GPD
TYPE III	56.4 GPM	2160 GPD	30X240 GPD=7200 GPD
TYPE IV	74 GPM	3840 GPD	32X240 GPD=7680 GPD
TYPE V	30.8 GPM	1300 GPD	5X240 GPD+2X25 GPD=1250 GPD

\*INFORMATION PROVIDED BY PLUMBING ENGINEER

SITE DATA TABLE PHASE I	
USE:	MULTI-FAMILY APARTMENTS
TOTAL SITE AREA:	10.81 ACRES (470,887 SF)
UPLAND AREA:	7.41 ACRES (322,868 SF)
WETLAND AREA:	2.32 ACRES (101,190 SF)
RIGHT-OF-WAY AREA:	1.07 ACRES (46,629 SF)
PARCEL ID#:	R06109-004-028-000
MAP ID#:	313809.07.4012.000
ZONING:	MF-M
CAMA LAND USE:	URBAN
BUILDING SETBACKS: (REQUIRED)	FRONT SETBACK: 35' TYPICAL, (BLDG. #1 39' MIN.) INTERIOR SIDE SETBACK: 20' TYPICAL, (BLDG. #2 24' MIN.) CORNER SIDE SETBACK: 30' REAR SETBACKS: 25' TYPICAL, (BLDG. #3 29' MIN.)
BUILDING SETBACKS: (PROPOSED)	FRONT SETBACK: 47.84' INTERIOR SIDE SETBACK: 24' CORNER SIDE SETBACK: N/A REAR SETBACKS: 29'
MAX. LOT COVERAGE:	30%
PROPOSED LOT COVERAGE:	15.57%
MAX. BUILDING HEIGHT:	96' (HEIGHTS OVER 35' REQUIRE ADDITIONAL SETBACK)
PROPOSED MAX. BUILDING HEIGHT:	49.5'±
<b>PARKING REQUIREMENT</b>	
PARKING REQ'D: MULTI-FAMILY	MAX.: 2.5 SPACES PER UNIT MIN.: 1 BR-1.5 PER UNIT 2 BR-2 PER UNIT 3 BR-2.25 PER UNIT
<b>REQUIRED MAX:</b> (65+68+12)=145X2.5=363	
<b>REQUIRED MIN:</b> 1 BR (65X1.5)=98 2 BR (68X2)=136 3 BR (12X2.25)=27 TOTAL=261 HC ACCESSIBLE=6	<b>PROVIDED:</b> OFF STREET: 245 HC ACCESSIBLE: 7 GARAGE: 18 (INCLUDES 1 HC PER GARAGE) ON STREET: 3 TOTAL: 273
<b>BICYCLE PARKING:</b> 15 REQ'D.	<b>BICYCLE PARKING:</b> 15 PROVIDED
<b>IMPERVIOUS AREA:</b>	
BUILDINGS:	73,316 SF
ASPHALT, CURB AND GUTTER (SITE):	90,850 SF
ASPHALT, CURB AND GUTTER (ROW):	32,634 SF
SIDEWALK/CONCRETE:	29,000 SF
EXISTING MUP:	2,500 SF
TOTAL:	228,300 SF
PROPOSED % IMPERVIOUS:	48.50%
<b>LANDSCAPING REQUIREMENTS (REFER TO LANDSCAPE PLAN)</b>	
15 TREES PER DISTURBED ACRE REQUIRED	
DISTURBED AREA=8.75 AC X 15=131 TREES	
INTERIOR LANDSCAPING: 20% CANOPY COVER OF INTERIOR AREA OF PARKING FACILITY	
STREET/PAVING LANDSCAPING: 18 MULTIPLIER	
FOUNDATION PLANTINGS: 12% FACE OF BUILDING X LENGTH	
OPEN SPACE: REFER TO SRB PLAN SHEET C4.1	
OPEN SPACE REQUIRED: 35% OF TRACT MINUS WETLANDS, 17.5% EITHER ACTIVE OR PASSIVE, 17.5% ACTIVE, PASSIVE, RECREATION, OR OPEN SPACE.	

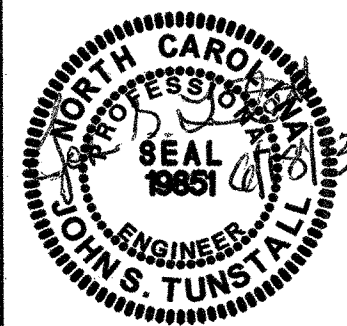
BY	DESCRIPTION
	REVISIONS
SYMBOL	DATE

**SITE DATA**  
**TIBURON PARC APARTMENTS**  
 2945 MOYNET WAY  
 WILMINGTON, NORTH CAROLINA

OWNER:  
 NELSON MACRAE  
 MIDTOWN ONE, LLC  
 P.O. BOX 3146  
 WILMINGTON, N.C. 28408  
 910-392-3300

**NORRIS & TUNSTALL**  
**CONSULTING ENGINEERS, INC.**  
 1127 FLORAL PARKWAY  
 SUITE 400  
 WILMINGTON, NC, 28403  
 PHONE (910) 343-9653  
 FAX (910) 343-9604  
 office@nteng.com  
 licence #C-3641

HUD/PERMIT SET  
**12073**  
 DES. JUST  
 CDR. JPN  
 DRWL. NKS  
 DATE 6/18/13



**C1**

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

NCDENR PWSS WATER PERMIT #:  
 WATER CAPACITY: \_\_\_\_\_ GPD  
 DWQ SEWER PERMIT #:  
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 SEWER SHED # AND PLANT:  
 SEWER TO FLOW THROUGH NEEL: YES or NO (CIRCLE ONE)

**CITY OF WILMINGTON**  
 NORTH CAROLINA  
 Public Services • Engineering Division  
**APPROVED STORMWATER MANAGEMENT PLAN**  
 Date: 6/28/13 Permit # 2013020  
 Signed: [Signature]

**Approved Construction Plan**  
 Name: [Signature] Date: 6/28/13  
 Planning: [Signature] 6/27/13  
 Traffic: [Signature] 6/27/13  
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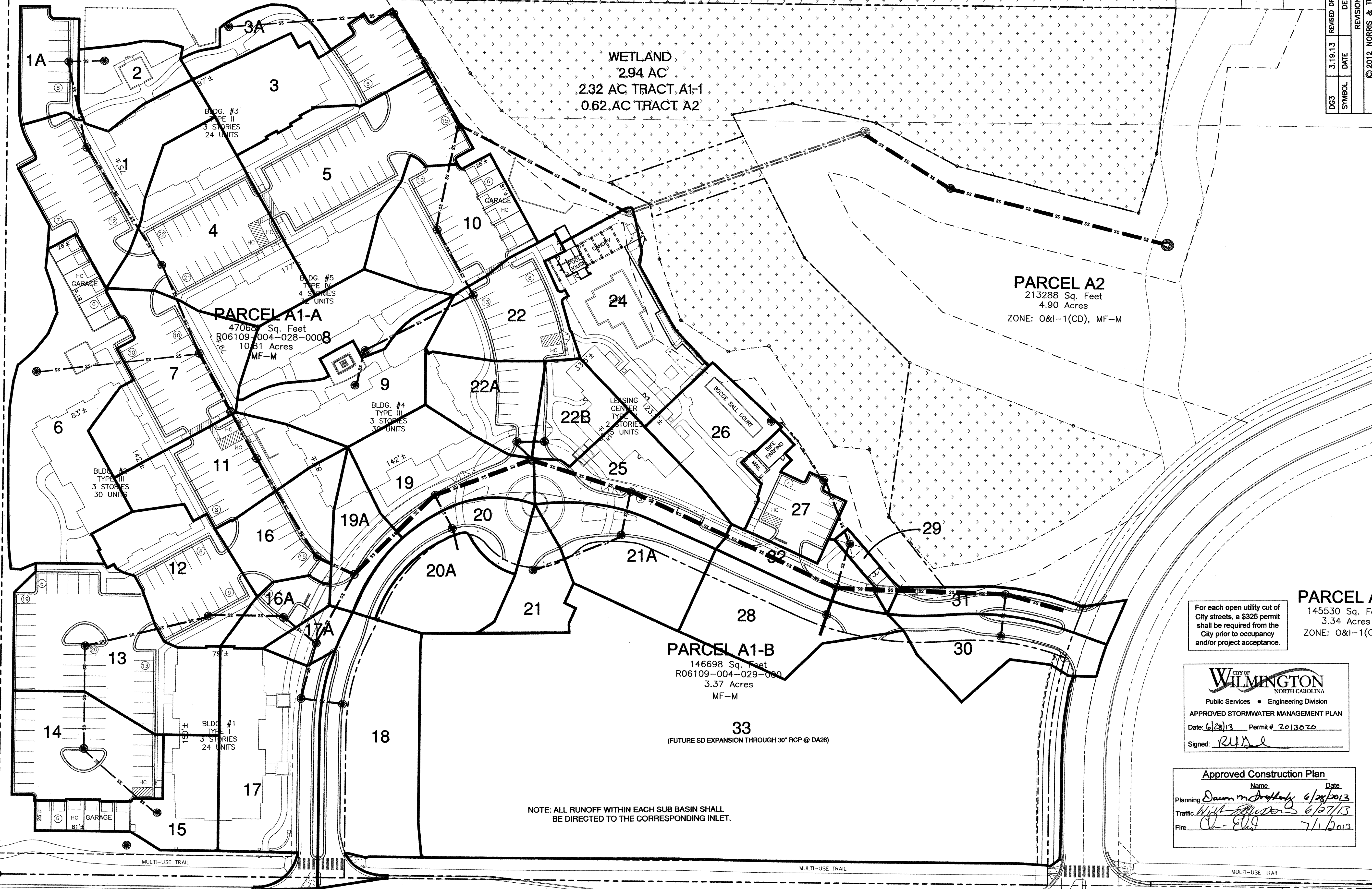


THE OLEANDER COMPANY  
BK 786 PG 31  
CONSERVATION EASEMENT  
NORTH CAROLINA COASTAL LAND TRUST  
BK 3348 PG 985-997

INLET BASIN #	DA TOTAL (Ac)	TOTAL IMP. (Ac)
1	0.30	0.28
1A	0.11	0.10
2	0.12	0.02
3	0.27	0.25
3A	0.05	0.04
4	0.39	0.33
5	0.42	0.33
6	0.46	0.19
7	0.31	0.28
8	0.20	0.14
9	0.21	0.14
10	0.27	0.19
11	0.23	0.19
12	0.40	0.35
13	0.24	0.23
14	0.24	0.23
15	0.18	0.11
16	0.17	0.11
16A	0.07	0.04
17	0.36	0.23
17A	0.04	0.03
18	0.40	0.24
19	0.23	0.20
19A	0.10	0.05
20	0.12	0.11
20A	0.15	0.08
21	0.10	0.08
21A	0.23	0.17
22	0.19	0.15
22A	0.15	0.09
22B	0.11	0.07
23	0.00	0.00
24	0.29	0.25
25	0.29	0.15
26	0.17	0.04
27	0.12	0.11
28	0.22	0.15
29	0.03	0.03
30	0.17	0.12
31	0.11	0.09
32	0.10	0.07
33	2.33	1.70

\*\*DA23 REMOVED BASED ON REV. TO SD SYSTEM 3-19-13

O&I-1  
R06109-004-027-000  
2025 INDEPENDENCE BLVD.  
NEW HANOVER BOARD OF EDUCATION  
ALDERMAN ELEMENTARY  
BK. 5430 PG. 1613



NOTE: ALL RUNOFF WITHIN EACH SUB BASIN SHALL BE DIRECTED TO THE CORRESPONDING INLET.

**PARCEL D**  
22.84 Acres  
WETLANDS  
ZONE: R-15, O&I-1(CD)

**WETLAND**  
2.94 AC  
2.32 AC TRACT A1-1  
0.62 AC TRACT A2

**PARCEL A1-A**  
47069 Sq. Feet  
R06109-004-028-0008  
10.61 Acres  
MF-M

**PARCEL A2**  
213288 Sq. Feet  
4.90 Acres  
ZONE: O&I-1(CD), MF-M

**PARCEL A1-B**  
146698 Sq. Feet  
R06109-004-029-000  
3.37 Acres  
MF-M

**PARCEL A**  
145530 Sq. Feet  
3.34 Acres  
ZONE: O&I-1(CD)

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Public Services • Engineering Division  
**APPROVED STORMWATER MANAGEMENT PLAN**  
Date: 6/28/13 Permit # 2013020  
Signed: [Signature]

**Approved Construction Plan**  
Name: Dawn M. Driffler Date: 6/28/2013  
Planning: [Signature] Date: 6/27/13  
Traffic: [Signature] Date: 7/1/2013  
Fire: [Signature]

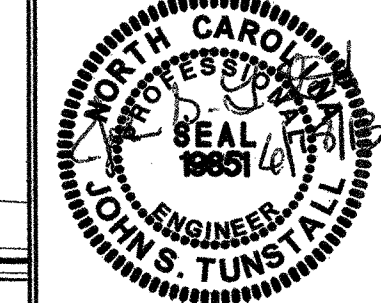
SCALE: 1" = 40'

**DRAINAGE AREA PLAN**  
TIBURON PARC APARTMENTS  
2945 MOYNET WAY  
WILMINGTON, NORTH CAROLINA

OWNER:  
NELSON MACRAE  
MIDTOWN ONE, LLC  
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PHONE (910) 343-9653  
FAX (910) 343-9604  
office@nteng.com  
license #C-3641

HUD/PERMIT SET  
12073  
DES. JUST  
ORD. JPN  
DWL. NKS  
DATE: 6/18/13



**C2.1**

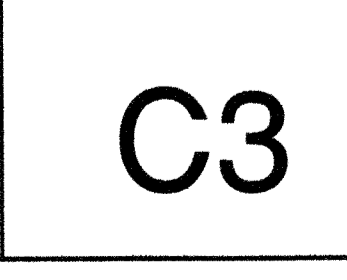
DCS	SYMBOL	DATE	DESCRIPTION	REVISIONS	BY
2.18.13			ADDED BUILDING DIMS		NKS

**UTILITY PLAN**  
TIBURON PARC APARTMENTS  
2945 MOYNET WAY  
WILMINGTON, NORTH CAROLINA

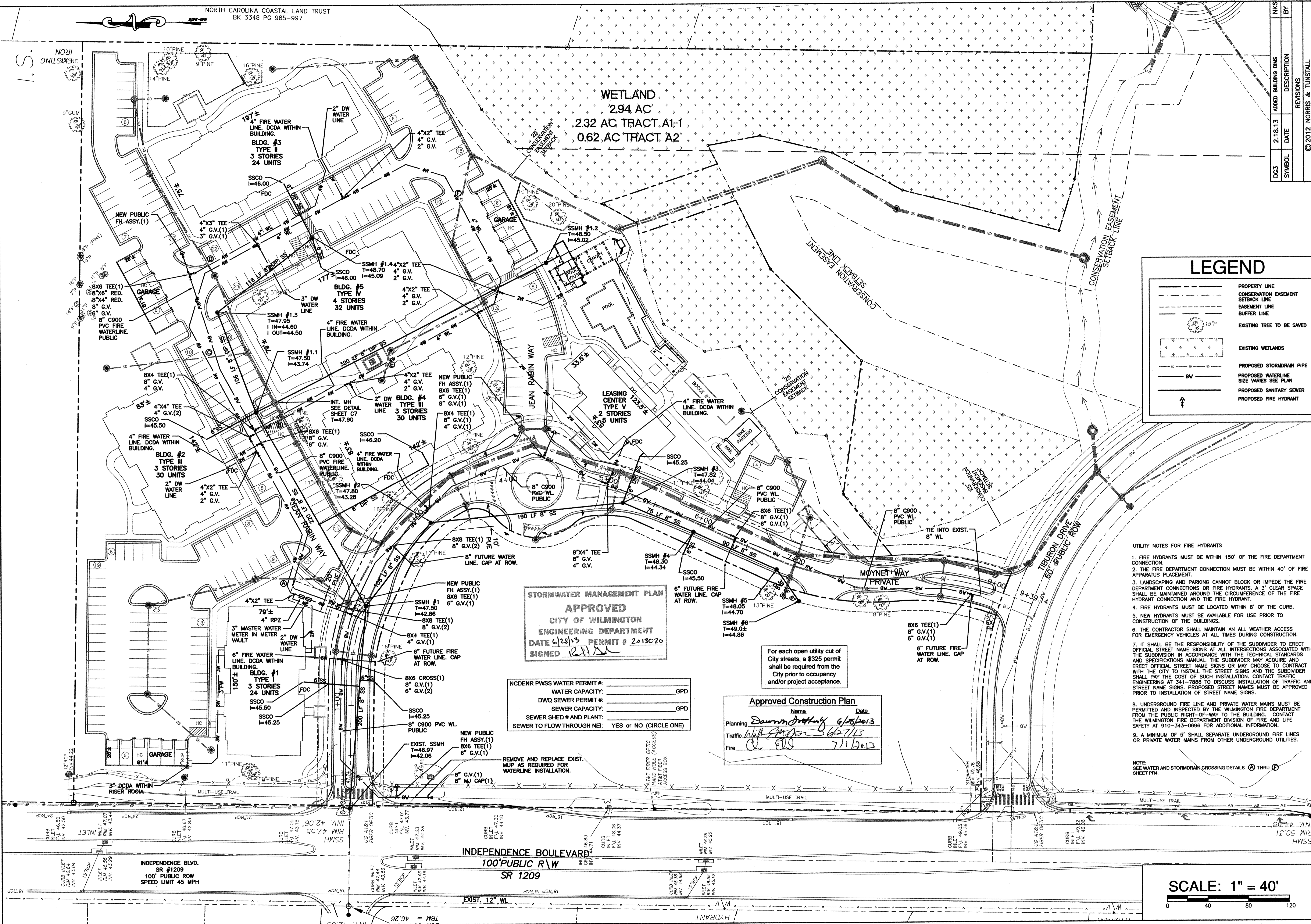
OWNER:  
NELSON MACRAE  
MIDTOWN ONE, LLC  
P.O. BOX 8145  
WILMINGTON, N.C. 28406  
910-982-3300

**NORRIS & TUNSTALL**  
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WILMINGTON, NC, 28403  
PHONE (910) 343-9653  
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license #C-3641

HUD/PERMIT SET  
**12073**  
DES. JUST  
CMB. JPN  
DRWN. NKS  
DATE 5/2/13



**C3**



### LEGEND

	PROPERTY LINE
	CONSERVATION EASEMENT SETBACK LINE
	EASEMENT LINE
	BUFFER LINE
	EXISTING TREE TO BE SAVED
	EXISTING WETLANDS
	PROPOSED STORMWATER PIPE
	PROPOSED WATERLINE
	PROPOSED SEWER
	PROPOSED FIRE HYDRANT

**STORMWATER MANAGEMENT PLAN**  
**APPROVED**  
CITY OF WILMINGTON  
ENGINEERING DEPARTMENT  
DATE 6/28/13 PERMIT # 2013020  
SIGNED [Signature]

NCDENR PWSS WATER PERMIT # \_\_\_\_\_  
WATER CAPACITY: \_\_\_\_\_ GPD  
DWQ SEWER PERMIT # \_\_\_\_\_  
SEWER CAPACITY: \_\_\_\_\_ GPD  
SEWER SHED # AND PLANT: \_\_\_\_\_  
SEWER TO FLOW THROUGH NEI: YES OR NO (CIRCLE ONE)

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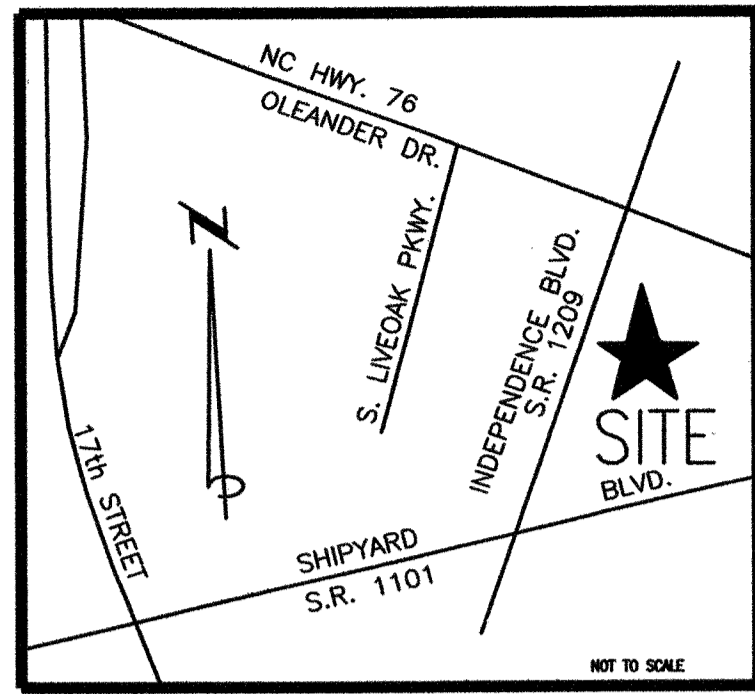
**Approved Construction Plan**  
Name \_\_\_\_\_ Date \_\_\_\_\_  
Planning [Signature] 6/28/13  
Traffic [Signature] 6/27/13  
Fire [Signature] 7/11/13

- UTILITY NOTES FOR FIRE HYDRANTS
- FIRE HYDRANTS MUST BE WITHIN 150' OF THE FIRE DEPARTMENT CONNECTION.
  - THE FIRE DEPARTMENT CONNECTION MUST BE WITHIN 40' OF FIRE APPARATUS PLACEMENT.
  - LANDSCAPING AND PARKING CANNOT BLOCK OR IMPEDE THE FIRE DEPARTMENT CONNECTIONS OR FIRE HYDRANTS. A 3' CLEAR SPACE SHALL BE MAINTAINED AROUND THE CIRCUMFERENCE OF THE FIRE HYDRANT CONNECTION AND THE FIRE HYDRANT.
  - FIRE HYDRANTS MUST BE LOCATED WITHIN 8' OF THE CURB.
  - NEW HYDRANTS MUST BE AVAILABLE FOR USE PRIOR TO CONSTRUCTION OF THE BUILDINGS.
  - THE CONTRACTOR SHALL MAINTAIN AN ALL WEATHER ACCESS FOR EMERGENCY VEHICLES AT ALL TIMES DURING CONSTRUCTION.
  - IT SHALL BE THE RESPONSIBILITY OF THE SUBDIVIDER TO ERECT OFFICIAL STREET NAME SIGNS AT ALL INTERSECTIONS ASSOCIATED WITH THE SUBDIVISION IN ACCORDANCE WITH THE TECHNICAL STANDARDS AND SPECIFICATIONS MANUAL. THE SUBDIVIDER MAY ACQUIRE AND ERECT OFFICIAL STREET NAME SIGNS OR MAY CHOOSE TO CONTRACT WITH THE CITY TO INSTALL THE STREET SIGNS AND THE SUBDIVIDER SHALL PAY THE COST OF SUCH INSTALLATION. CONTACT TRAFFIC ENGINEERING AT 341-7888 TO DISCUSS INSTALLATION OF TRAFFIC AND STREET NAME SIGNS. PROPOSED STREET NAMES MUST BE APPROVED PRIOR TO INSTALLATION OF STREET NAME SIGNS.
  - UNDERGROUND FIRE LINE AND PRIVATE WATER MAINS MUST BE PERMITTED AND INSPECTED BY THE WILMINGTON FIRE DEPARTMENT FROM THE PUBLIC RIGHT-OF-WAY TO THE BUILDING. CONTACT THE WILMINGTON FIRE DEPARTMENT DIVISION OF FIRE AND LIFE SAFETY AT 910-343-0696 FOR ADDITIONAL INFORMATION.
  - A MINIMUM OF 5' SHALL SEPARATE UNDERGROUND FIRE LINES OR PRIVATE WATER MAINS FROM OTHER UNDERGROUND UTILITIES.
- NOTE: SEE WATER AND STORMDRAIN CROSSING DETAILS (A) THRU (D) SHEET PWA.

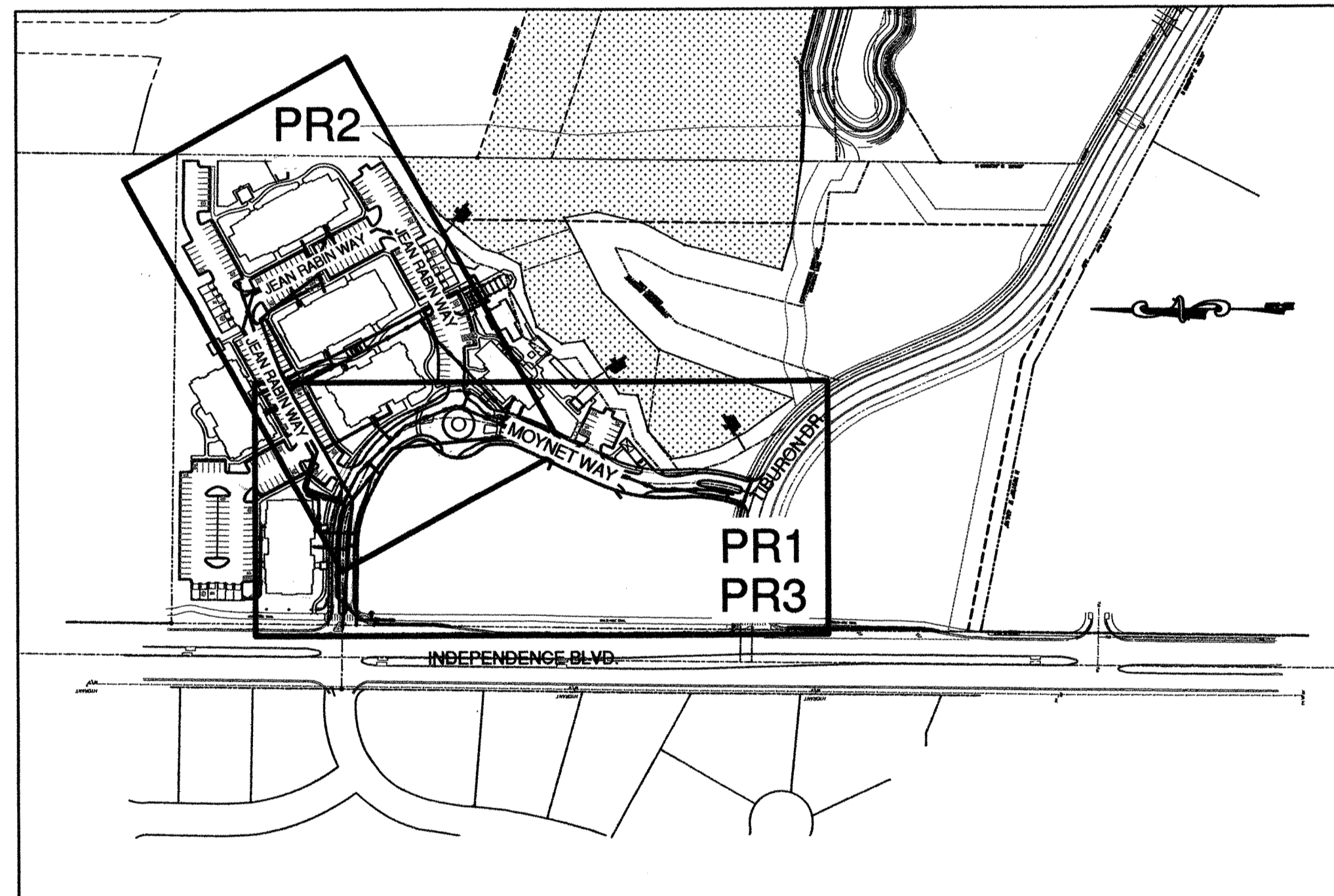
SCALE: 1" = 40'

# TIBURON PARC APARTMENTS

WILMINGTON, NC  
NEW HANOVER COUNTY



LOCATION MAP



SCALE: 1" = 200'

## LEGEND

	PROPERTY LINE
	CONSERVATION EASEMENT
	SETBACK LINE
	EASEMENT LINE
	BUFFER LINE
	EXISTING TREE TO BE SAVED
	EXISTING WETLANDS
	PROPOSED STORMDRAIN PIPE
	PROPOSED WATERLINE SIZE VARIES SEE PLAN
	PROPOSED SANITARY SEWER
	PROPOSED FIRE HYDRANT

### OWNER/DEVELOPER

NELSON MACRAE  
MIDTOWN ONE, LLC  
P.O. BOX 3145  
WILMINGTON, N.C. 28406  
910-392-3300

### SURVEYOR

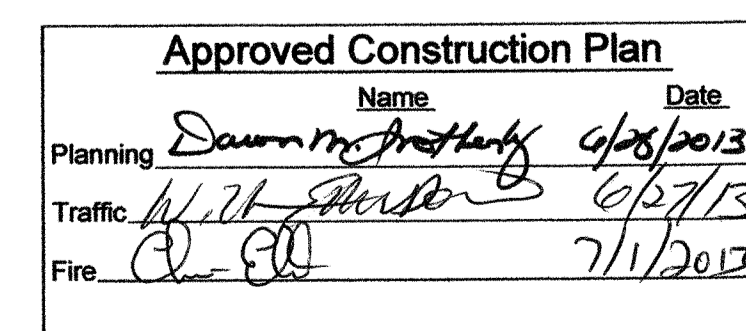
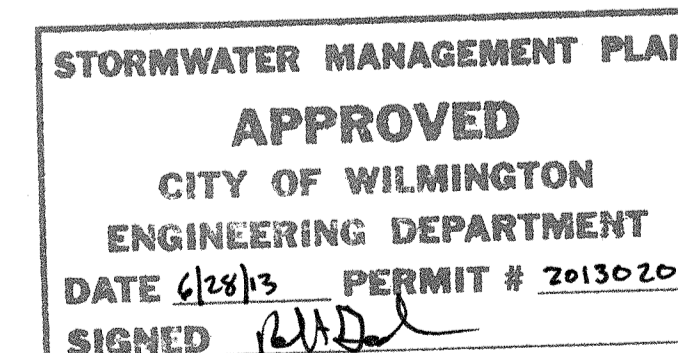
HANOVER DESIGN SERVICES, P.A.  
1123 FLORAL PARKWAY  
WILMINGTON NC 28403  
910-343-8002

### NORRIS & TUNSTALL

### CONSULTING ENGINEERS, INC.

1127 FLORAL PARKWAY  
SUITES 300 & 400  
WILMINGTON, NC, 28403  
PHONE (910) 343-9653  
FAX (910) 343-9604  
office@nkteng.com  
licence #C-0520

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



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

## INDEX OF SHEETS

COVER SHEET
PR1: SS PLAN AND PROFILE LINE 1 MOYNET WAY
PR2: SS PLAN AND PROFILE LINE 2 AND 3 JEAN RABIN WAY
PR3: WATER LINE PLAN AND PROFILE MOYNET WAY
PR4: WATER/STORM CROSSINGS PROFILES
SD-1: CFPWA WATER MAIN CONSTRUCTION DETAILS (1 OF 2)
SD-1: CFPWA WATER MAIN CONSTRUCTION DETAILS (2 OF 2)
SD-3: CFPWA SANITARY SEWER STANDARD DETAILS (1 OF 3)
SD-3: CFPWA SANITARY SEWER STANDARD DETAILS (2 OF 3)





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

**Approved Construction Plan**

Name: \_\_\_\_\_ Date: \_\_\_\_\_

Planning: *Dawn Bradley* 6/28/2013

Traffic: *Will Taylor* 6/27/13

Fire: *Cliff* 7/1/13

NCDENR PWSS WATER PERMIT #: \_\_\_\_\_

WATER CAPACITY: \_\_\_\_\_ GPD

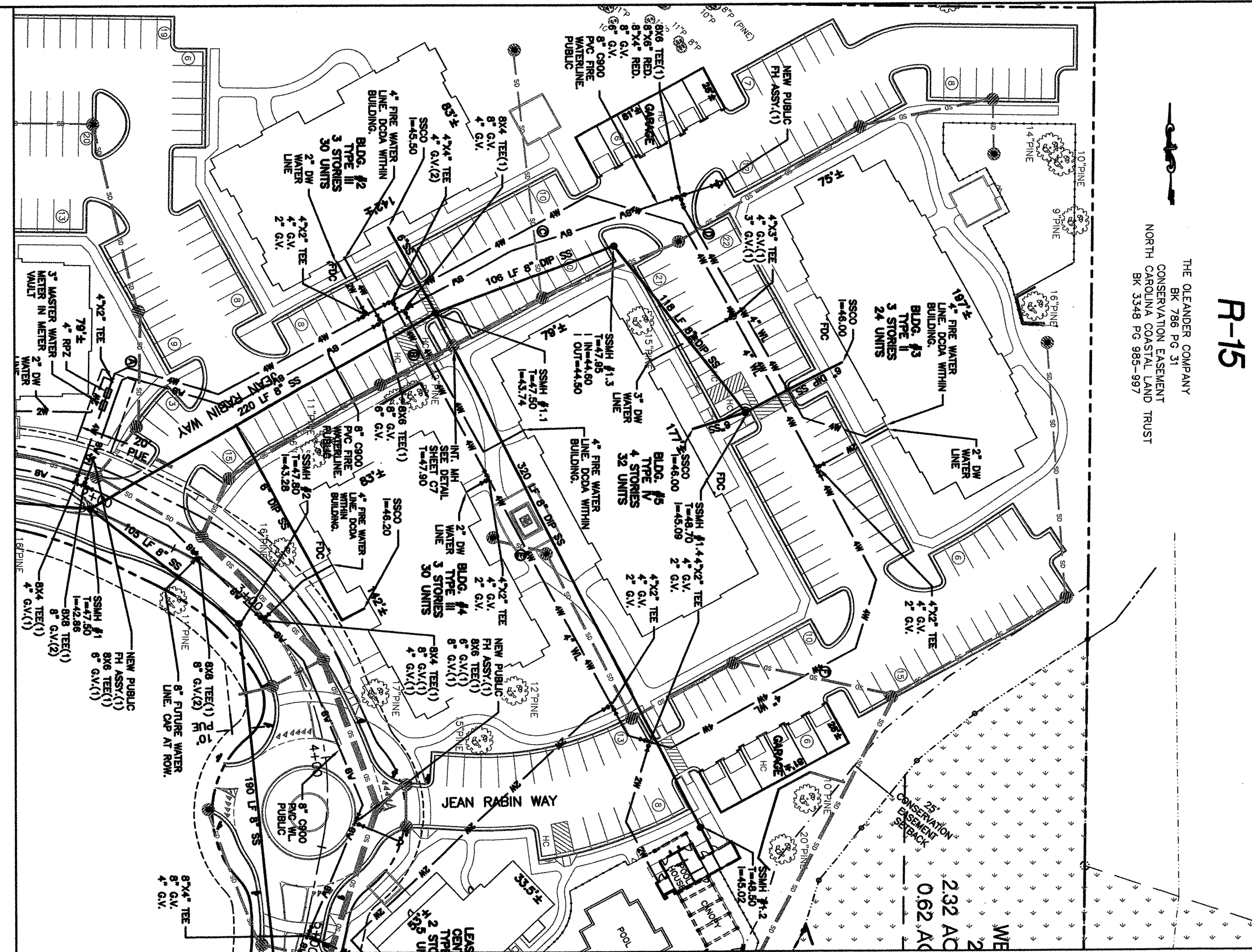
DWQ SEWER PERMIT #: \_\_\_\_\_

SEWER CAPACITY: \_\_\_\_\_ GPD

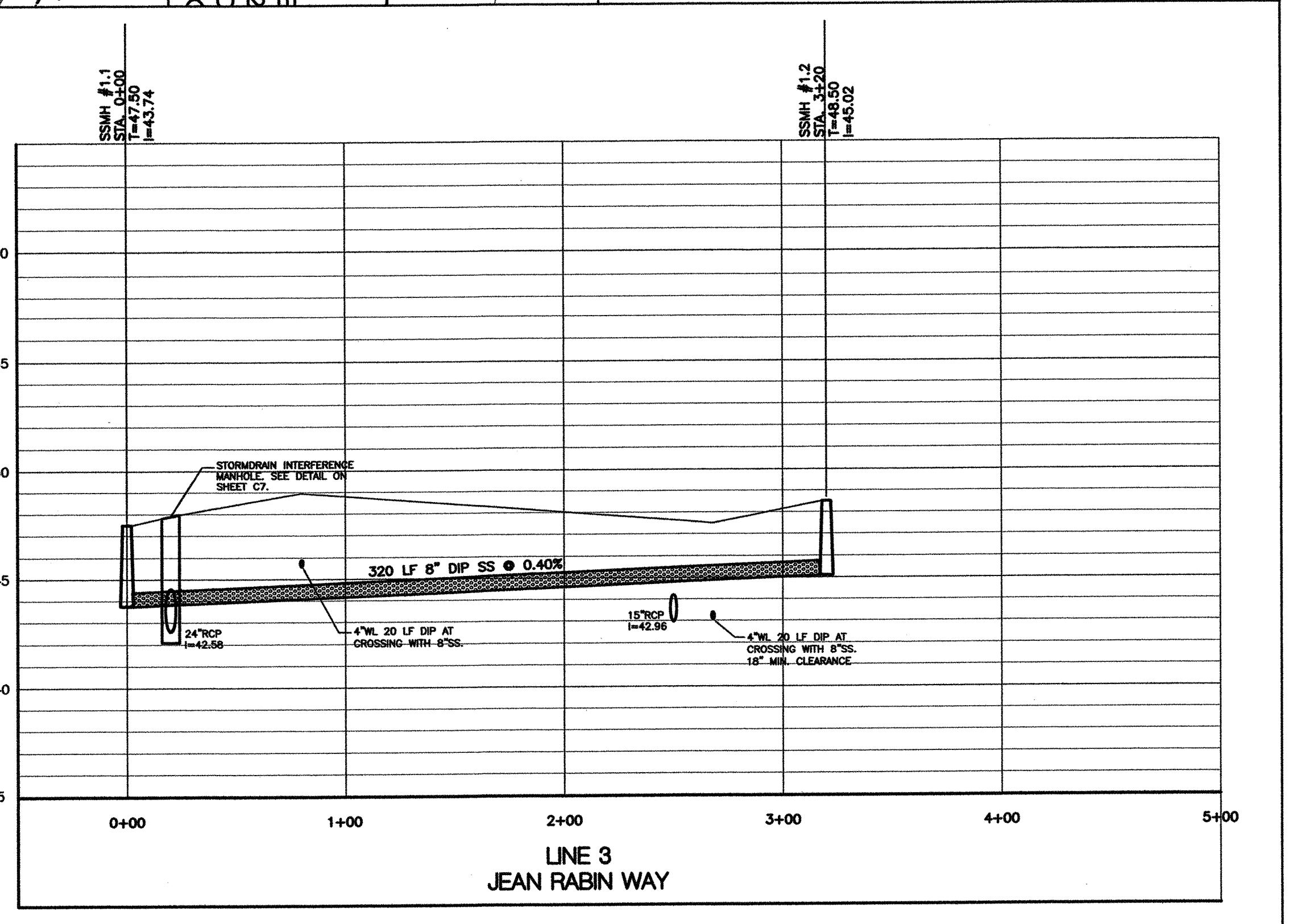
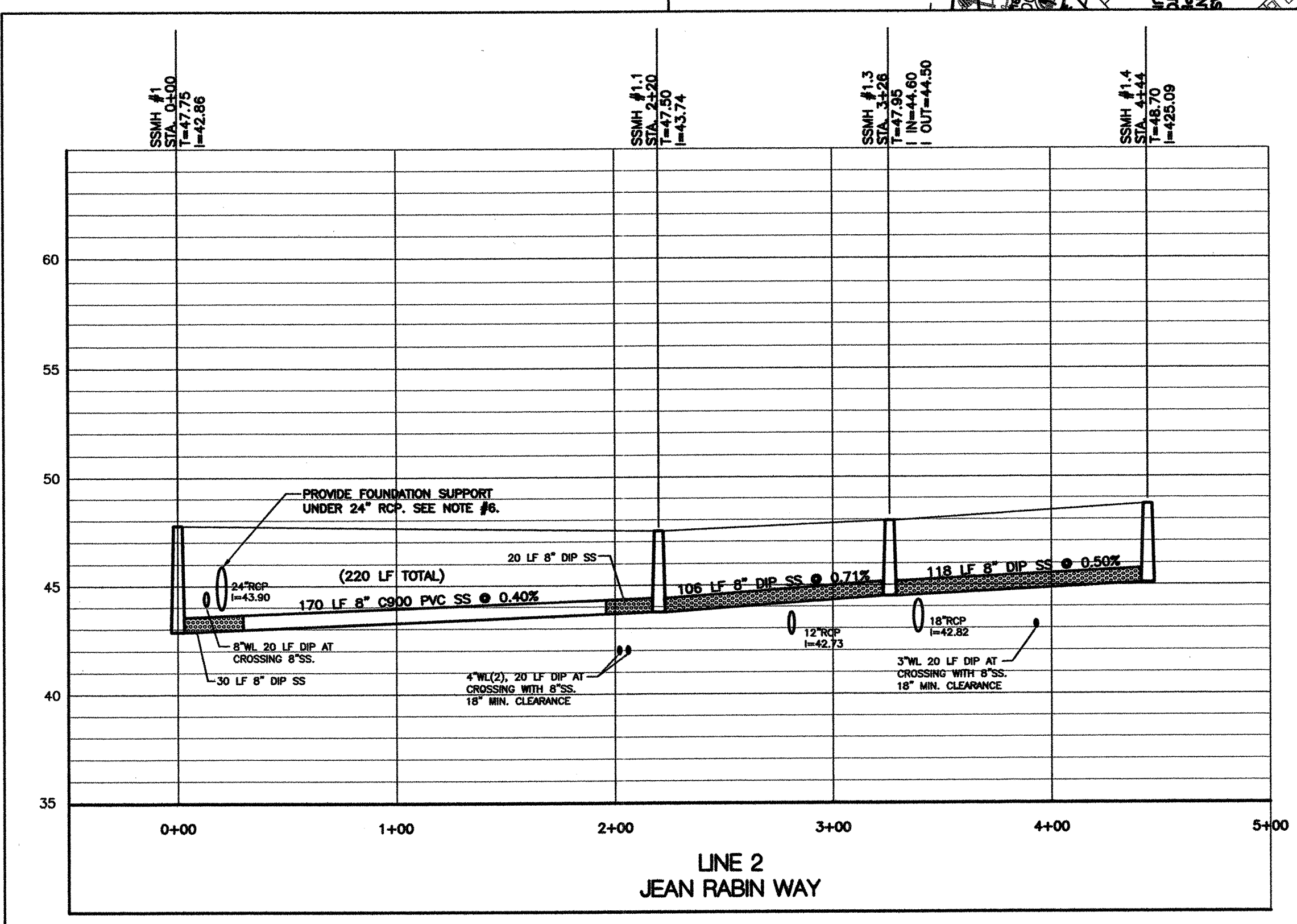
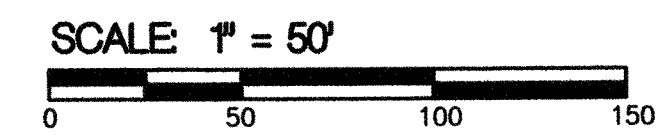
SEWER SHED # AND PLANT: \_\_\_\_\_

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

STORMWATER MANAGEMENT PLAN  
**APPROVED**  
 CITY OF WILMINGTON  
 ENGINEERING DEPARTMENT  
 DATE 6/28/13 PERMIT # 2013020  
 SIGNED *RMS*



R-15  
 THE GLEASER COMPANY  
 BR 788 PG 31  
 CONSERVATION EASEMENT  
 NORTH OF BR 3344 PG 885-897



**UTILITY NOTES:**

1. LATERAL SEPARATION OF SEWERS AND WATER MAINS. WATER MAINS SHALL BE LAID AT LEAST 10 FEET LATERALLY FROM EXISTING OR PROPOSED SEWERS, UNLESS LOCAL CONDITIONS OR BARRIERS PREVENT A 10 FOOT LATERAL SEPARATION-IN WHICH CASE:

(A) THE WATER MAIN IS LAID IN A SEPARATE TRENCH, WITH THE ELEVATION OF THE BOTTOM OF THE WATER MAIN AT LEAST 18 INCHES ABOVE THE TOP OF THE SEWER; OR

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2. CROSSING A WATER MAIN OVER A SEWER. WHENEVER IT IS NECESSARY FOR A WATER MAIN TO CROSS OVER A SEWER, THE WATER MAIN SHALL BE LAID AT SUCH AN ELEVATION THAT THE BOTTOM OF THE WATER MAIN IS AT LEAST 18 INCHES ABOVE THE TOP OF THE SEWER, UNLESS LOCAL CONDITIONS OR BARRIERS PREVENT AN 18 INCH VERTICAL SEPARATION-IN WHICH CASE BOTH THE WATER MAIN AND THE SEWER SHALL BE CONSTRUCTED OF FERROUS MATERIALS AND WITH JOINTS THAT ARE EQUIVALENT TO WATER MAIN STANDARDS FOR A DISTANCE OF 10 FEET ON EACH SIDE OF THE POINT OF CROSSING.

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4. MAINTAIN A 24" MINIMUM SEPARATION BETWEEN THE PROPOSED OR EXISTING STORM DRAIN AND THE PROPOSED OR EXISTING WATER LINE OR SEWER LINE. SEE DETAILS.

5. RESTRAINING/BLOCKING THE PLUGS, CAPS, TEES AND BENDS DEFLECTING 22-1/2 DEGREES OR MORE EITHER VERTICALLY OR HORIZONTALLY ON WATER LINES 8 INCHES IN DIAMETER OF LARGER SHALL BE PROVIDED WITH THRUST BLOCKS OF "MEDALLUX" RETAINER GLAND AT EACH JOINT, INSTALLED PER MANUFACTURER'S REQUIREMENTS.

6. FOR STORMDRAIN PIPES 24" AND LARGER, WHEN THE STORMDRAIN PIPE IS OVER GRAVITY SEWER OR WATERLINE WITH LESS THAN 18" SEPARATION, STRUCTURAL BRIDGING MUST BE INSTALLED. SEE CFPWA DETAIL.

**CFPWA STANDARD NOTES:**

1. SEWER GUARDS REQUIRED AT ALL MANHOLES. STAINLESS STEEL SEWER GUARDS REQUIRED AT MANHOLES LOCATED IN TRAFFIC AREAS.

2. WELLS IN CONFLICT ARE TO BE RELOCATED.

3. SERVICES SHALL BE PERPENDICULAR TO MAIN AND TERMINATE AT RIGHT OF WAY LINE. SERVICES IN CUL-DE-SAC ARE REQUIRED TO BE PERPENDICULAR, OR MUST ORIGINATE IN MANHOLE AND TERMINATE AT RIGHT OF WAY LINE.

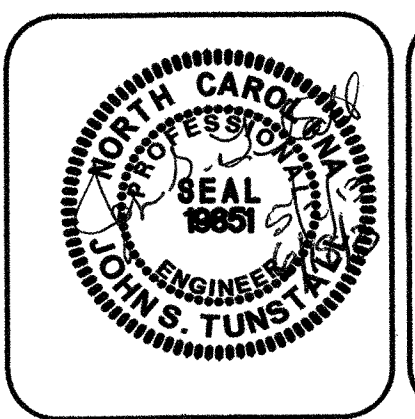
4. ALL SERVICES TIED INTO DUCTILE IRON MAINS SHALL BE CONSTRUCTED OF CLASS 50, D.I.P., 401 PROTECTO CERAMIC LINED.

5. 10' UTILITY EASEMENT IS PROVIDED ALONG THE FRONTAGE OF ALL LOTS AND AS SHOWN.

6. NO FLEXIBLE COUPLINGS SHALL BE USED.

HORIZ 1" = 50'  
 VERT. 1" = 5'

REV. NO.	DESCRIPTION	DATE



**NORRIS & TUNSTALL**  
 CONSULTING ENGINEERS, INC.

1127 FLORAL PARKWAY SUITE 303 # 400 WILMINGTON, NC 28403 PHONE (910) 343-0653 FAX (910) 343-0604 License: EC-1020

**SANITARY SEWER PLAN AND PROFILE**  
 TIBURON PARC APARTMENTS  
 2945 MOYNET WAY  
 WILMINGTON, N. C.

DATE: 5/2/13  
 SCALE: 1" = 50'  
 1" = 5'  
 DRAWN: NKS  
 CHECKED: JST  
 PROJECT NO: 12073

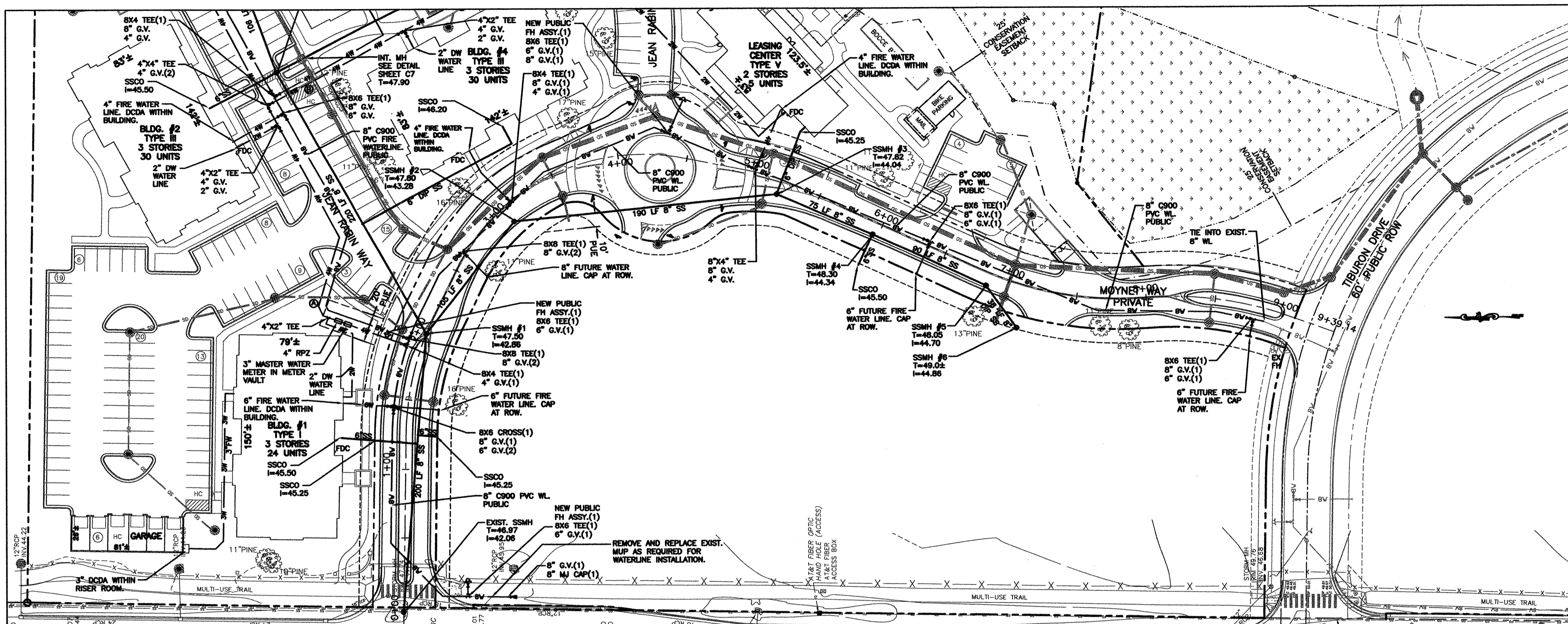
SHEET NO:  
**PR2**

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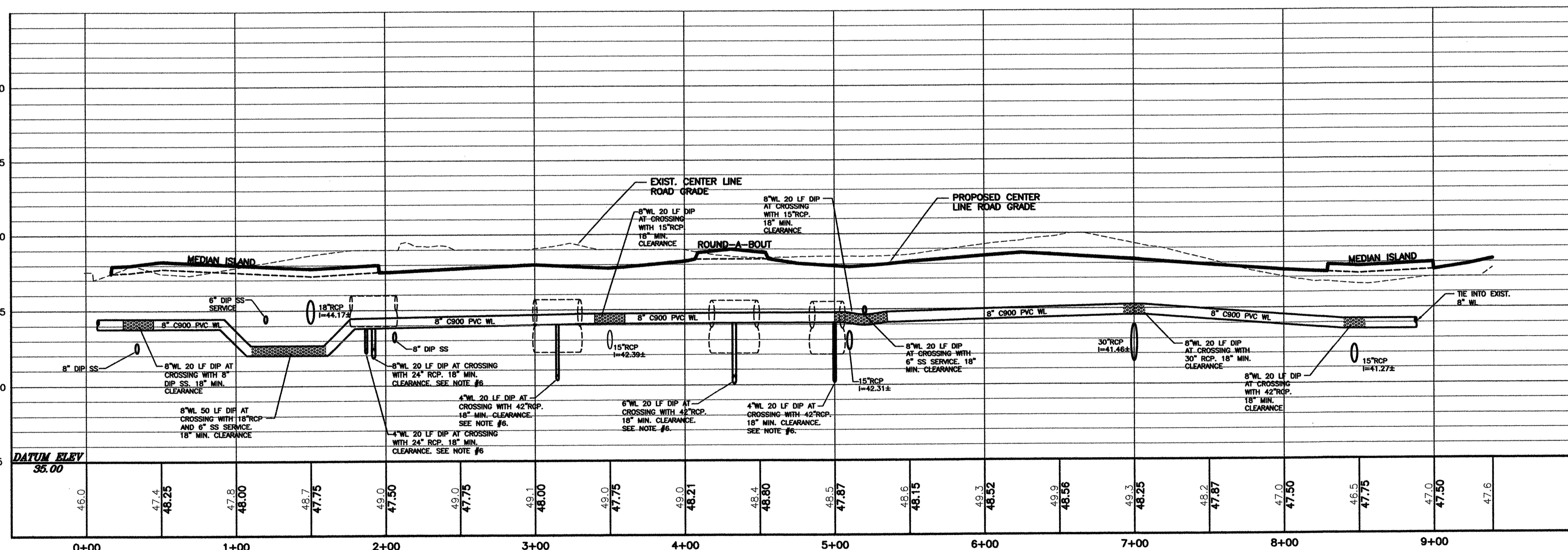
**Approved Construction Plan**

Name \_\_\_\_\_ Date \_\_\_\_\_  
 Planning *David M. Smith* 6/28/2013  
 Traffic *W. Smith* 6/27/13  
 Fire *Ch. Ellis* 7/1/2013

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



SCALE 1" = 50'  
 0 50 100 150



**UTILITY NOTES:**

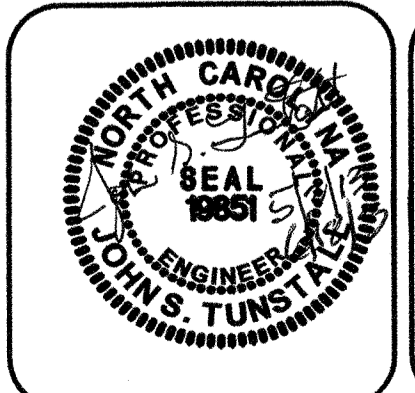
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 VERT. 1" = 5'

REV. NO.	DESCRIPTION	DATE



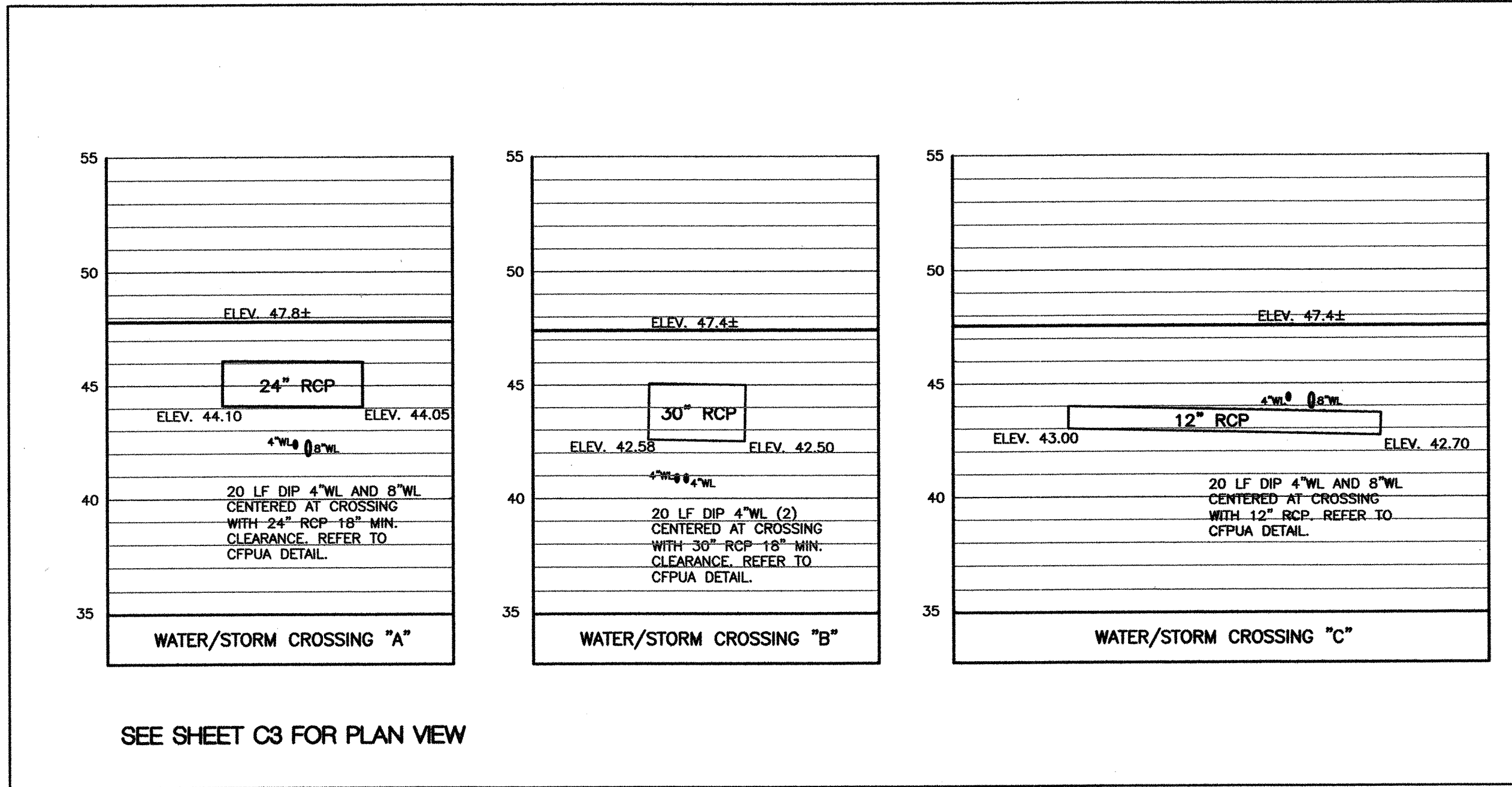
**NORRIS & TUNSTALL**  
 CONSULTING ENGINEERS, INC.  
 1127 FLORENCE PARKWAY  
 SUITE 300 & 400 WILMINGTON, NC 28403  
 PHONE (910) 343-8853  
 FAX (910) 343-9904  
 LICENSE #C-0820

DATE: 5/2/13  
 SCALE: 1" = 50'  
 1" = 5'  
 DRAWN: NKS  
 CHECKED: JST  
 PROJECT NO: 12073

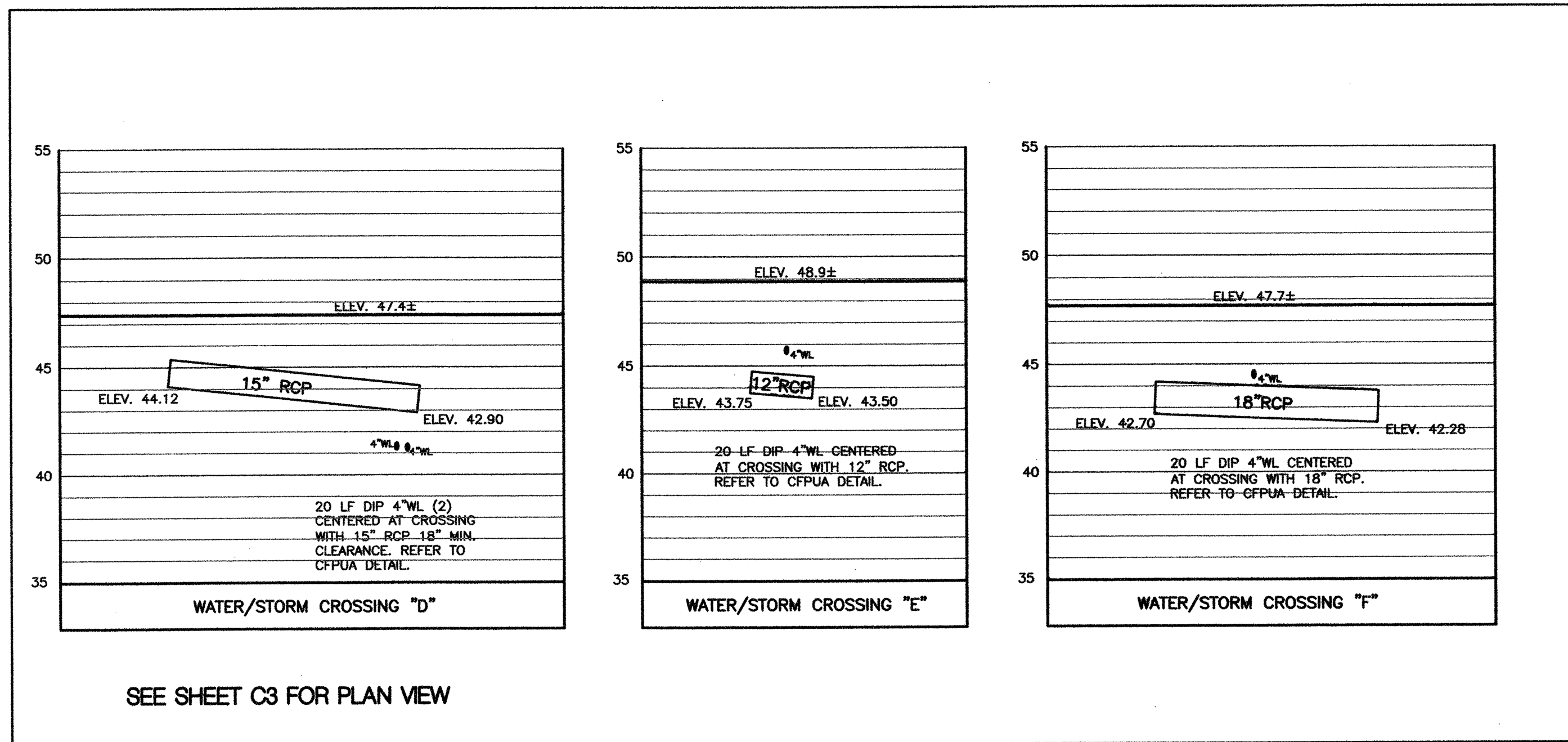
SHEET NO:  
**PR3**

**STORMWATER MANAGEMENT PLAN**  
**APPROVED**  
 CITY OF WILMINGTON  
 ENGINEERING DEPARTMENT  
 DATE 6/28/13 PERMIT # Z013020  
 SIGNED *[Signature]*

**WATERLINE PLAN AND PROFILE**  
 TIBURON PARC APARTMENTS  
 2945 MOYNET WAY  
 WILMINGTON, N. C.



SEE SHEET C3 FOR PLAN VIEW



SEE SHEET C3 FOR PLAN VIEW

**UTILITY NOTES:**

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VERT. 1" = 5'

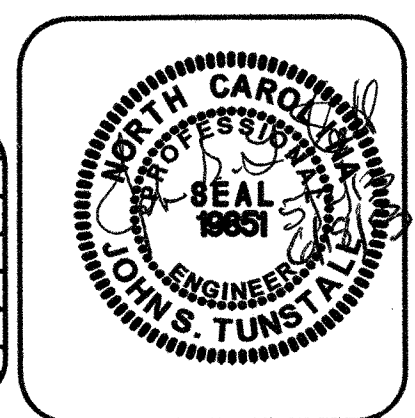
REV. NO.	DESCRIPTION	DATE

**STORMWATER MANAGEMENT PLAN**  
**APPROVED**  
CITY OF WILMINGTON  
ENGINEERING DEPARTMENT  
DATE 6/29/13 PERMIT # 2013020  
SIGNED *RUS*

**Approved Construction Plan**  
Name *Dawn Drotkoff* Date *6/28/2013*  
Traffic *W. G. D. 6/27/13*  
Fire *Ch. E. 7/1/2013*

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

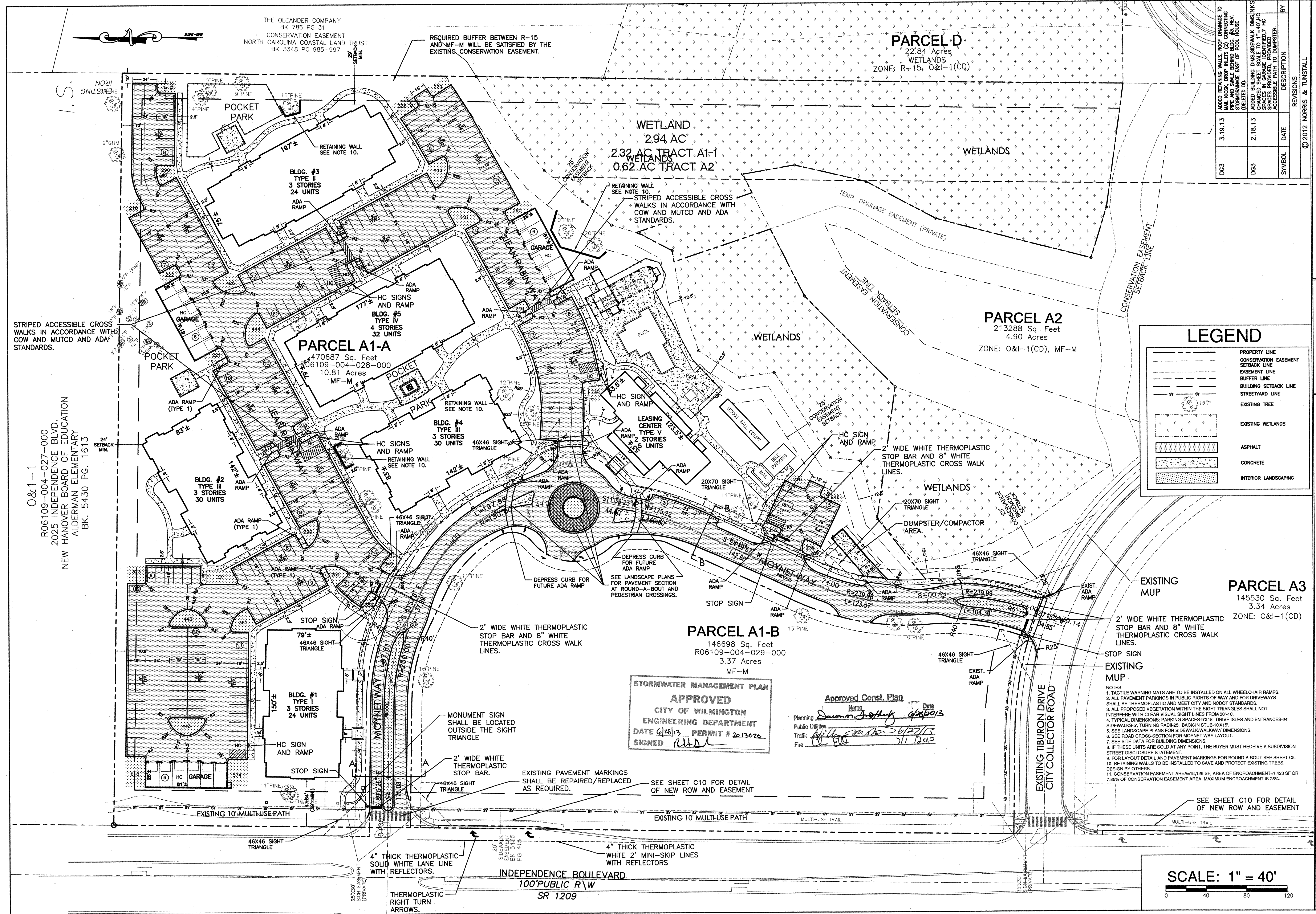
NCDENR PWSS WATER PERMIT # \_\_\_\_\_  
WATER CAPACITY: \_\_\_\_\_ GPD  
DWQ SEWER PERMIT # \_\_\_\_\_  
SEWER CAPACITY: \_\_\_\_\_ GPD  
SEWER SHED # AND PLANT: \_\_\_\_\_  
SEWER TO FLOW THROUGH NEI: YES or NO (CIRCLE ONE)



**NORRIS & TUNSTALL**  
**CONSULTING ENGINEERS, INC.**  
1127 FLORAL PARWAY SUITES 300 & 400 WILMINGTON, NC 28403  
PHONE (910) 343-8853 FAX (910) 343-8804  
**WATERLINE PLAN AND PROFILE**  
**TIBURON PARC APARTMENTS**  
2945 MOYNET WAY  
WILMINGTON, N. C.

DATE: 5/2/13  
SCALE: 1" = 50'  
1" = 5'  
DRAWN: NKS  
CHECKED: JST  
PROJECT NO: 12073

SHEET NO:  
**PR4**



NO.	DATE	DESCRIPTION	BY
DC3	3-19-13	ADDED RETAINING WALLS, ROOF DRAINAGE TO MAIN WORK, DROP INLET (2) CONNECTING STORMDRAINAGE EAST OF HOUSE (DELETED D).	
DC3	2-18-13	ADDED BUILDING DIMENSIONS, DIMENSIONS FOR 7'x10' HC SPACES IN GARAGE (DELETED 7'x10' SPACES PROVIDED, PROVIDED 7'x10' ACCESSIBLE PATH TO DUMPSTER.	

**LAYOUT PLAN**  
**TIBURON PARC APARTMENTS**  
2945 MOYNET WAY  
WILMINGTON, NORTH CAROLINA

**OWNER:**  
NELSON MACRAE  
MIDTOWN ONE LLC  
P.O. BOX 3145  
WILMINGTON, N.C. 28406  
910-392-3300

**NORRIS & TUNSTALL**  
**CONSULTING ENGINEERS, INC.**  
1127 FLORAL PARKWAY  
SUITE 400  
WILMINGTON, NC, 28403  
PHONE (910) 343-9653  
FAX (910) 343-9604  
office@nhteng.com  
license #C-3641

HUD/PERMIT SET  
**12073**

DES. JUST  
CKD. JPN  
DRWN. NKS

DATE 6/21/13

**C4**

F:\Projects\2013\12073 Tiburon Parc\12073 Master.dwg, 6/21/2013 8:25:01 AM  
 F:\Projects\2013\12073 Tiburon Parc\12073 Midtown Apartments of Tiburon Parc\12073 Master.dwg, 6/21/2013 8:25:01 AM

THE OLEANDER COMPANY  
BK 786 PG 31  
CONSERVATION EASEMENT  
NORTH CAROLINA COASTAL LAND TRUST  
BK 3348 PG 985-997

**PARCEL D**  
22.84 Acres  
WETLANDS  
ZONE: R-15, O&I-1(CD)

**WETLAND**  
2.94 AC  
2.32 AC TRACT A1-1  
0.62 AC TRACT A2

**PARCEL A2**  
213288 Sq. Feet  
4.90 Acres  
ZONE: O&I-1(CD), MF-M

**PARCEL A1-A**  
470687 Sq. Feet  
R06109-004-028-000  
10.81 Acres  
MF-M

**PARCEL A1-B**  
146698 Sq. Feet  
R06109-004-029-000  
3.37 Acres  
MF-M

**PARCEL A3**  
145530 Sq. Feet  
3.34 Acres  
ZONE: O&I-1(CD)

O&I-1  
R06109-004-027-000  
2025 INDEPENDENCE BLVD.  
NEW HANOVER BOARD OF EDUCATION  
ALDERMAN ELEMENTARY  
BK. 5430 PG. 1613

STORMWATER MANAGEMENT PLAN  
**APPROVED**  
CITY OF WILMINGTON  
ENGINEERING DEPARTMENT  
DATE 6/27/13 PERMIT # 2013020  
SIGNED *[Signature]*

OPEN SPACE REQUIRED: 35% OF TRACT MINUS WETLANDS, 17.5% EITHER ACTIVE OR PASSIVE, 17.5% ACTIVE, PASSIVE, RECREATION, OR OPEN SPACE.  
TOTAL TRACT: 14.17 AC MINUS 2.32 WETLANDS=11.85 AC  
11.85 AC X .35 = 4.15 AC TOTAL  
2,075 (90,387 SF) EITHER ACTIVE OR PASSIVE  
2,075 (90,387 SF) ACTIVE, PASSIVE, RECREATION, OR OPEN SPACE  
OPEN SPACE PROVIDED:  
2.67 (116,552 SF) OPEN SPACE  
2.57 (112,013 SF) ACTIVE/RECREATION

**Approved Construction Plan**  
Name: *[Signature]* Date: 6/28/2013  
Planning: *[Signature]* 6/28/2013  
Traffic: *[Signature]* 6/27/13  
Fire: *[Signature]* 7/1/2013

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**LEGEND**

	OPEN SPACE
	ACTIVE/RECREATION OPEN SPACE
	PROPERTY LINE
	CONSERVATION EASEMENT SETBACK LINE
	EASEMENT LINE
	BUFFER LINE
	BUILDING SETBACK LINE
	STREETYARD LINE
	EXISTING WETLANDS

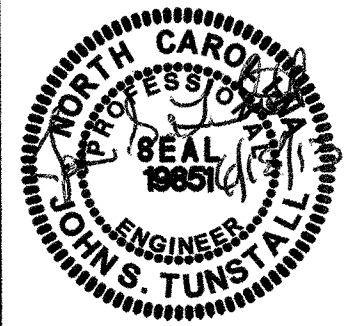
SYMBOL	DATE	DESCRIPTION	BY
		REVISIONS	

**OPEN SPACE PLAN**  
TIBURON PARC APARTMENTS  
2945 MOYNET WAY  
WILMINGTON, NORTH CAROLINA

OWNER:  
NELSON MACRAE  
MIDTOWN ONE, LLC  
P.O. BOX 3145  
WILMINGTON, N.C. 28406  
910-392-3300

**NORRIS & TUNSTALL**  
**CONSULTING ENGINEERS, INC.**  
1127 FLORAL PARKWAY  
SUITE 400  
WILMINGTON, NC. 28403  
PHONE (910) 343-9653  
FAX (910) 343-9604  
office@njteng.com  
license #C-3641

12073  
DES. JUST  
CHKD. JPN  
DRAWN. NKS  
DATE 6/18/13

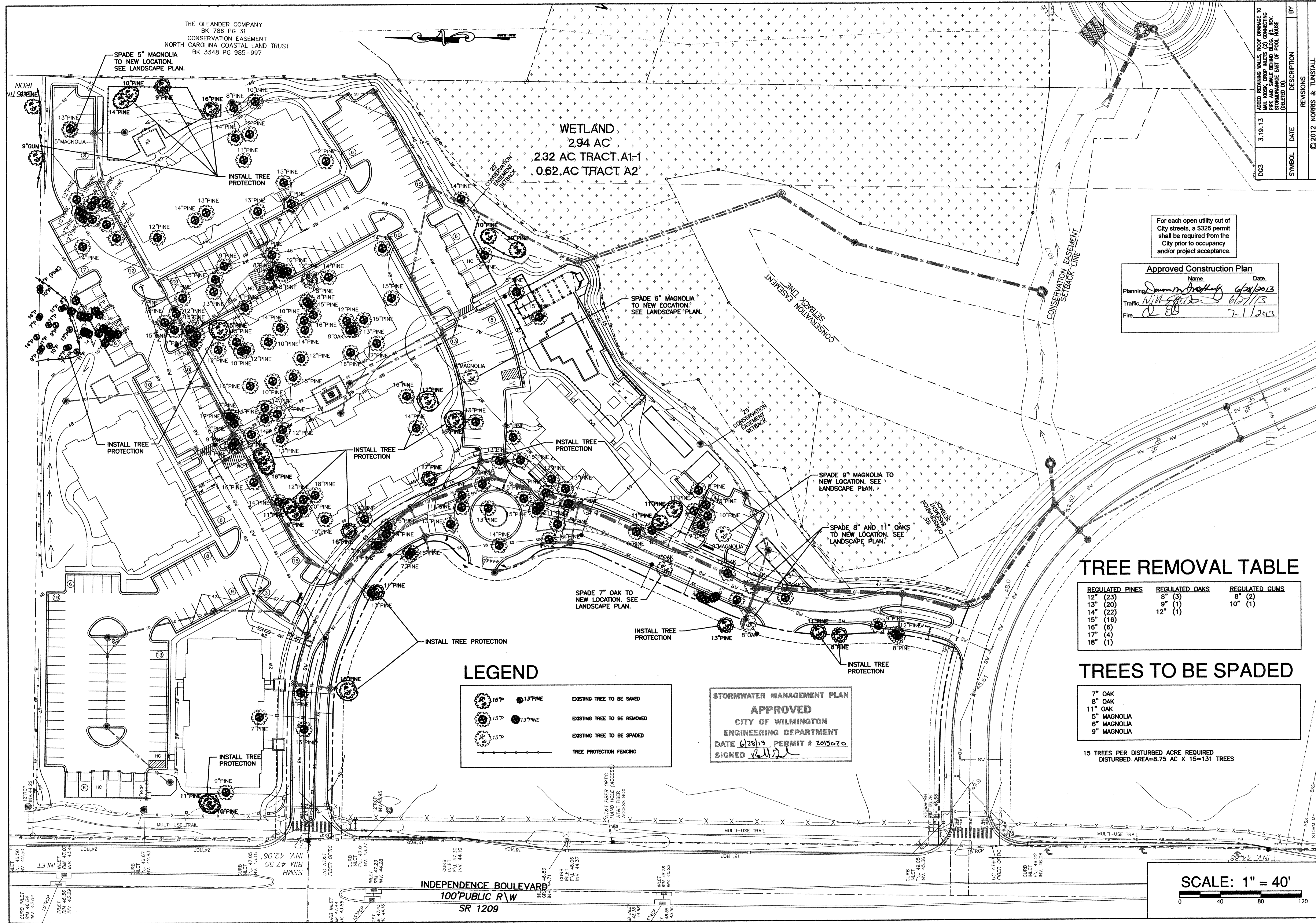


**C4.1**

SCALE: 1" = 40'  
0 40 80 120

INDEPENDENCE BOULEVARD  
100' PUBLIC R/W  
SR 1209

THE OLEANDER COMPANY  
BK 786 PG 31  
CONSERVATION EASEMENT  
NORTH CAROLINA COASTAL LAND TRUST  
BK 3348 PG 985-997



SYMBOL	DATE	DESCRIPTION	BY
D63	3.19.13	ADDED RETAINING WALLS, ROOF DRAINAGE TO MAIN STORMWATER PIPE AND SAME BEHIND BLDG. AS REVISION. STORAGE EAST OF POOL HOUSE (DELETED BY)	

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

**Approved Construction Plan**

Name: \_\_\_\_\_ Date: \_\_\_\_\_  
 Planning: *James A. Trotter* 6/28/2013  
 Traffic: *Will Smith* 6/27/13  
 Fire: *[Signature]* 7-1-2013

**TREE REMOVAL TABLE**

REGULATED PINES	REGULATED OAKS	REGULATED GUMS
12" (23)	8" (3)	8" (2)
13" (20)	9" (1)	10" (1)
14" (22)	12" (1)	
15" (16)		
16" (6)		
17" (4)		
18" (1)		

**TREES TO BE SPADED**

- 7" OAK
- 8" OAK
- 11" OAK
- 5" MAGNOLIA
- 6" MAGNOLIA
- 9" MAGNOLIA

15 TREES PER DISTURBED ACRE REQUIRED  
DISTURBED AREA=8.75 AC X 15=131 TREES

**LEGEND**

- EXISTING TREE TO BE SAVED
- EXISTING TREE TO BE REMOVED
- EXISTING TREE TO BE SPADED
- TREE PROTECTION FENCING

**STORMWATER MANAGEMENT PLAN**  
**APPROVED**  
 CITY OF WILMINGTON  
 ENGINEERING DEPARTMENT  
 DATE 6/28/13 PERMIT # 2013020  
 SIGNED *[Signature]*

SCALE: 1" = 40'

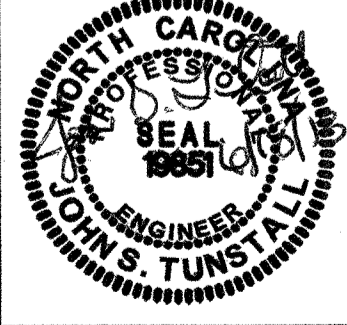


**TREE PLAN**  
 TIBURON PARC APARTMENTS  
 2945 MOYNET WAY  
 WILMINGTON, NORTH CAROLINA

OWNER:  
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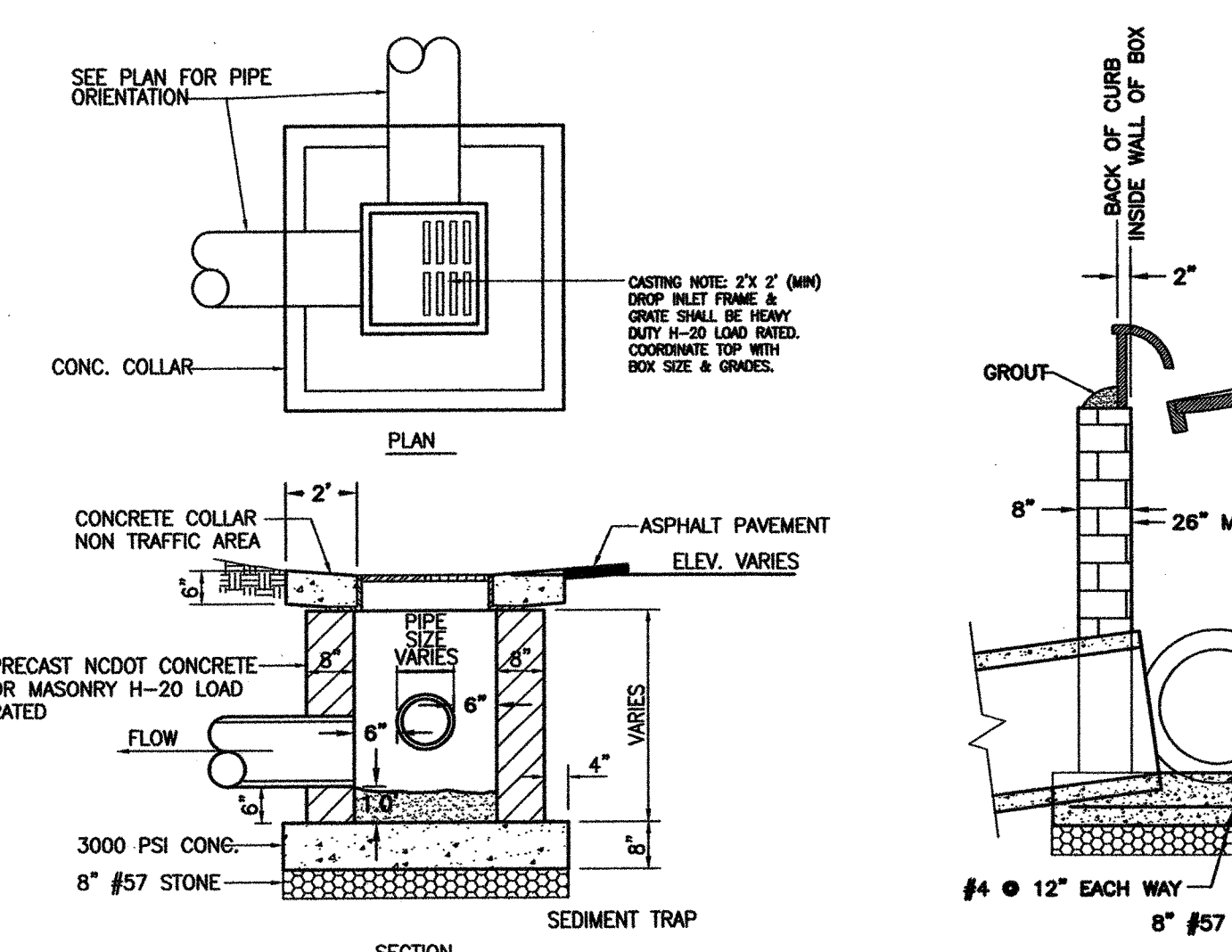
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HUD/PERMIT SET  
**12073**  
 DES. JUST  
 CDD. JPN  
 DRWL. NKS  
 DATE 9/18/13

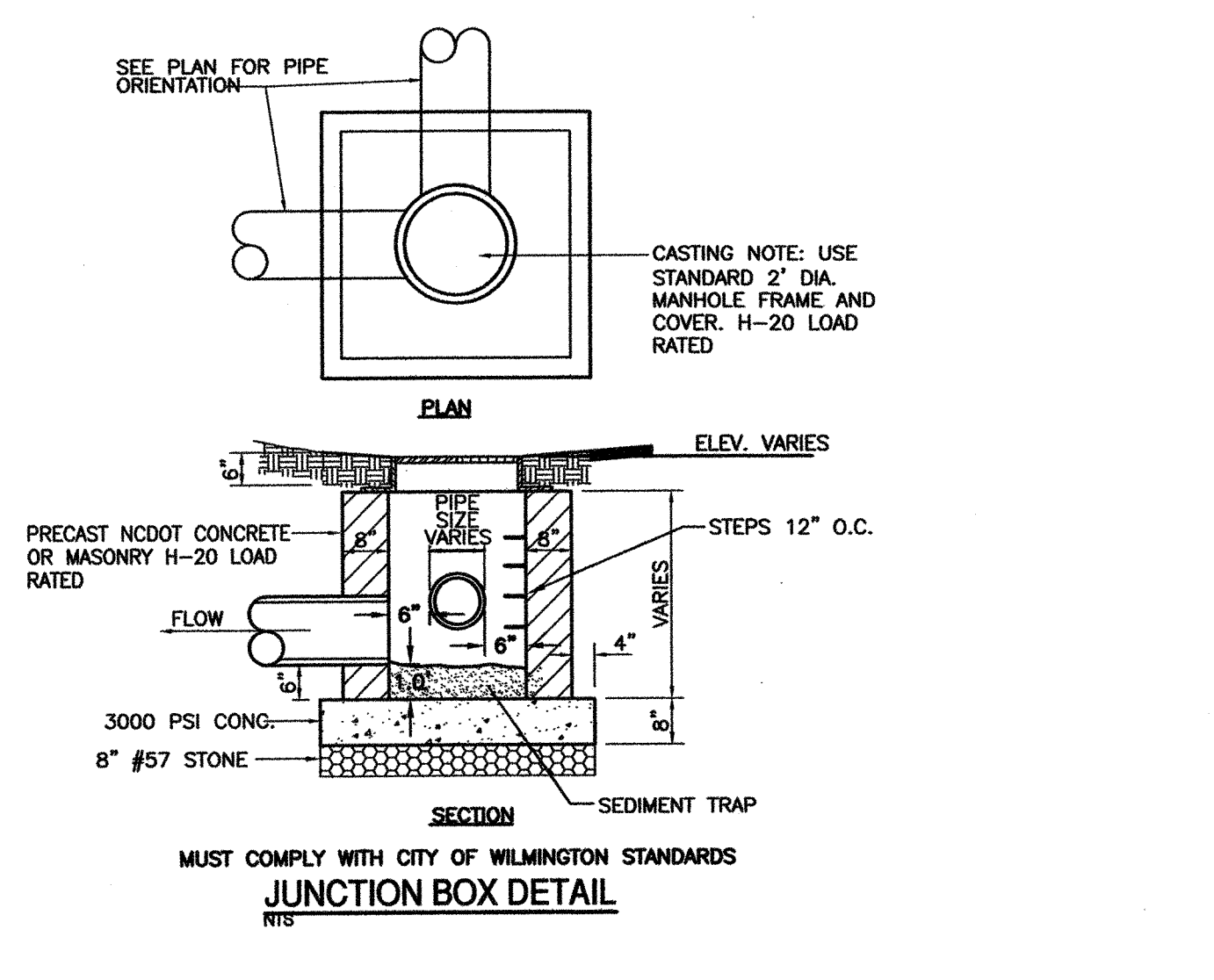


**C5**

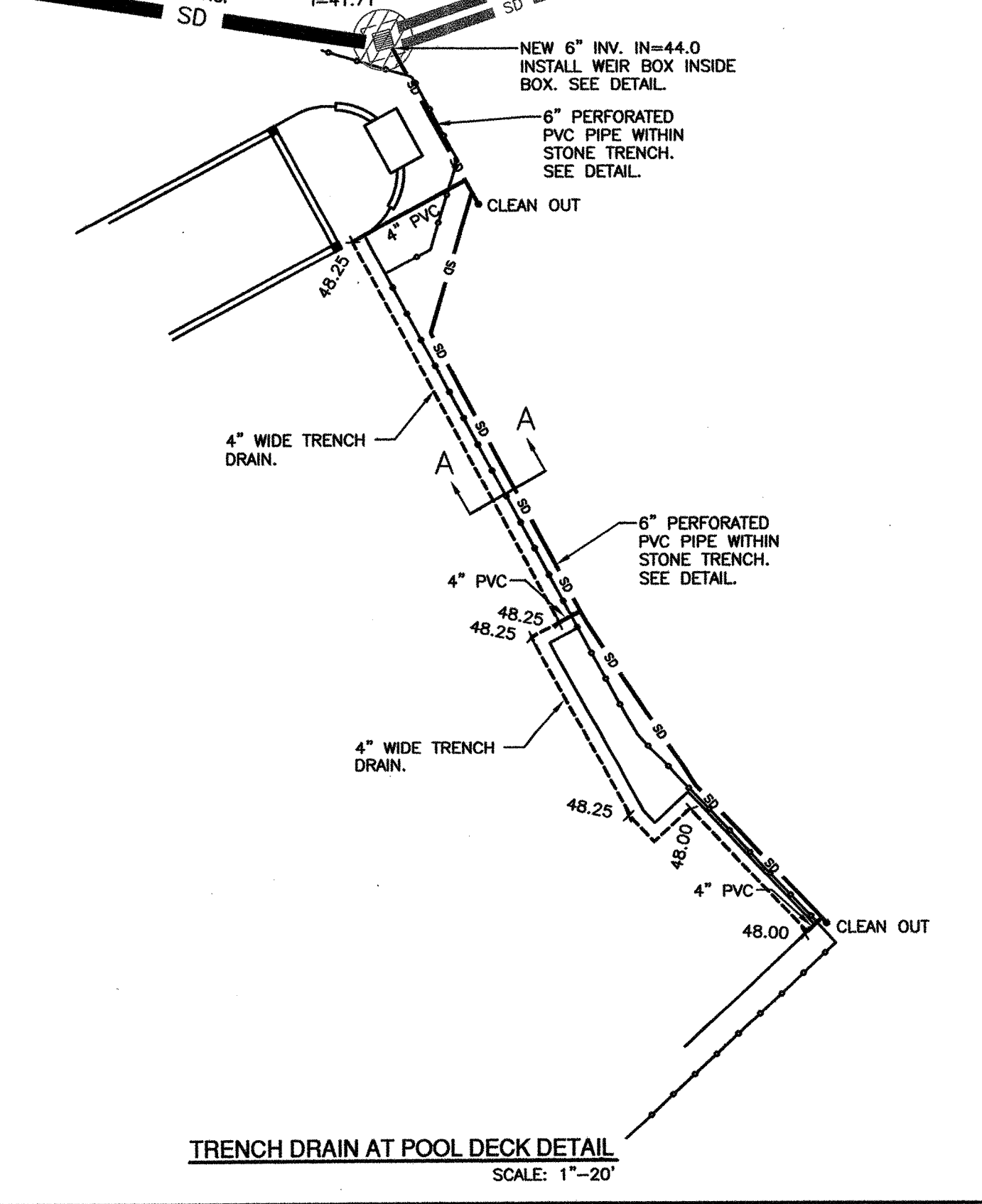




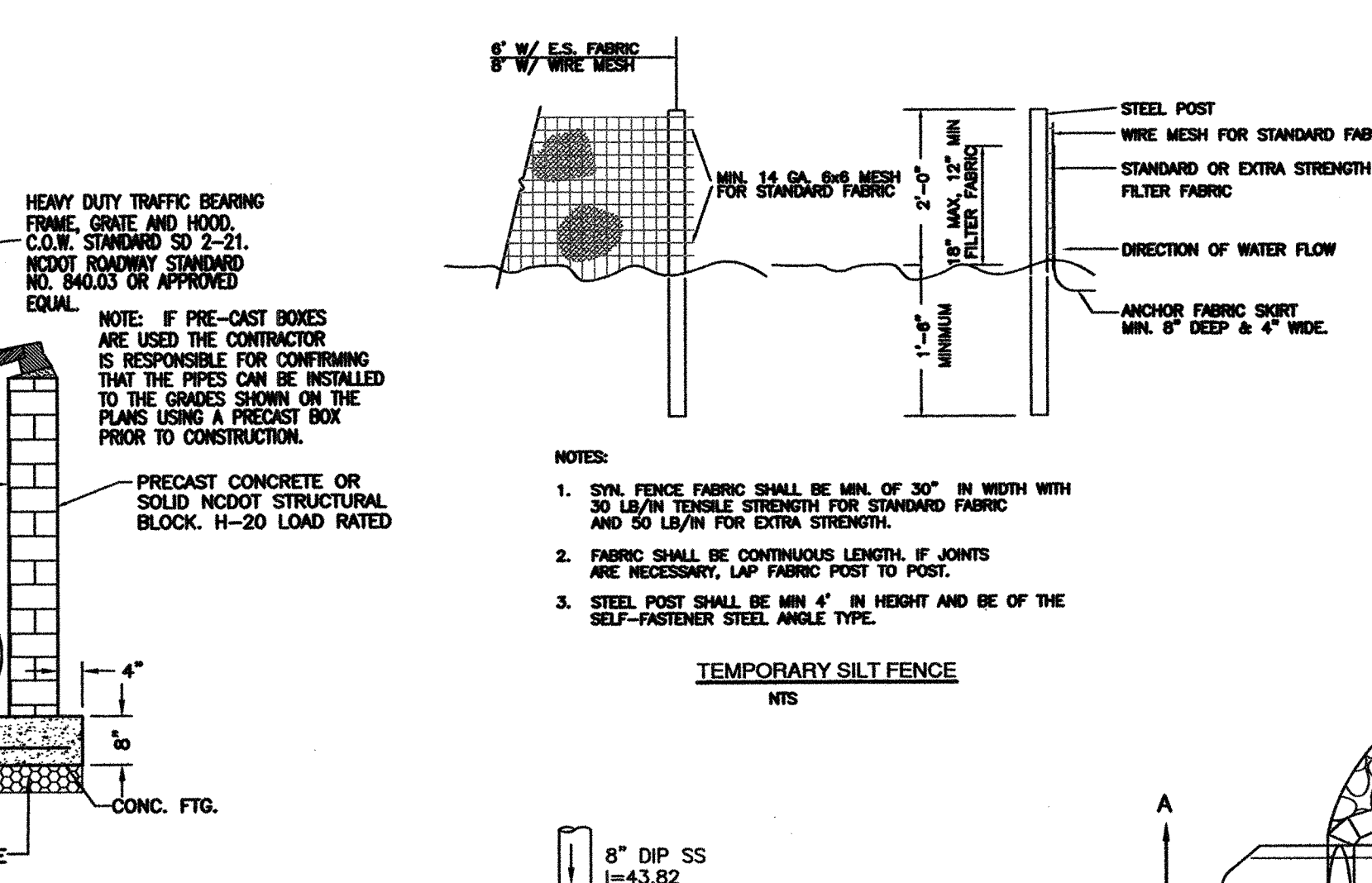
**DROP INLET DETAIL**  
NTS



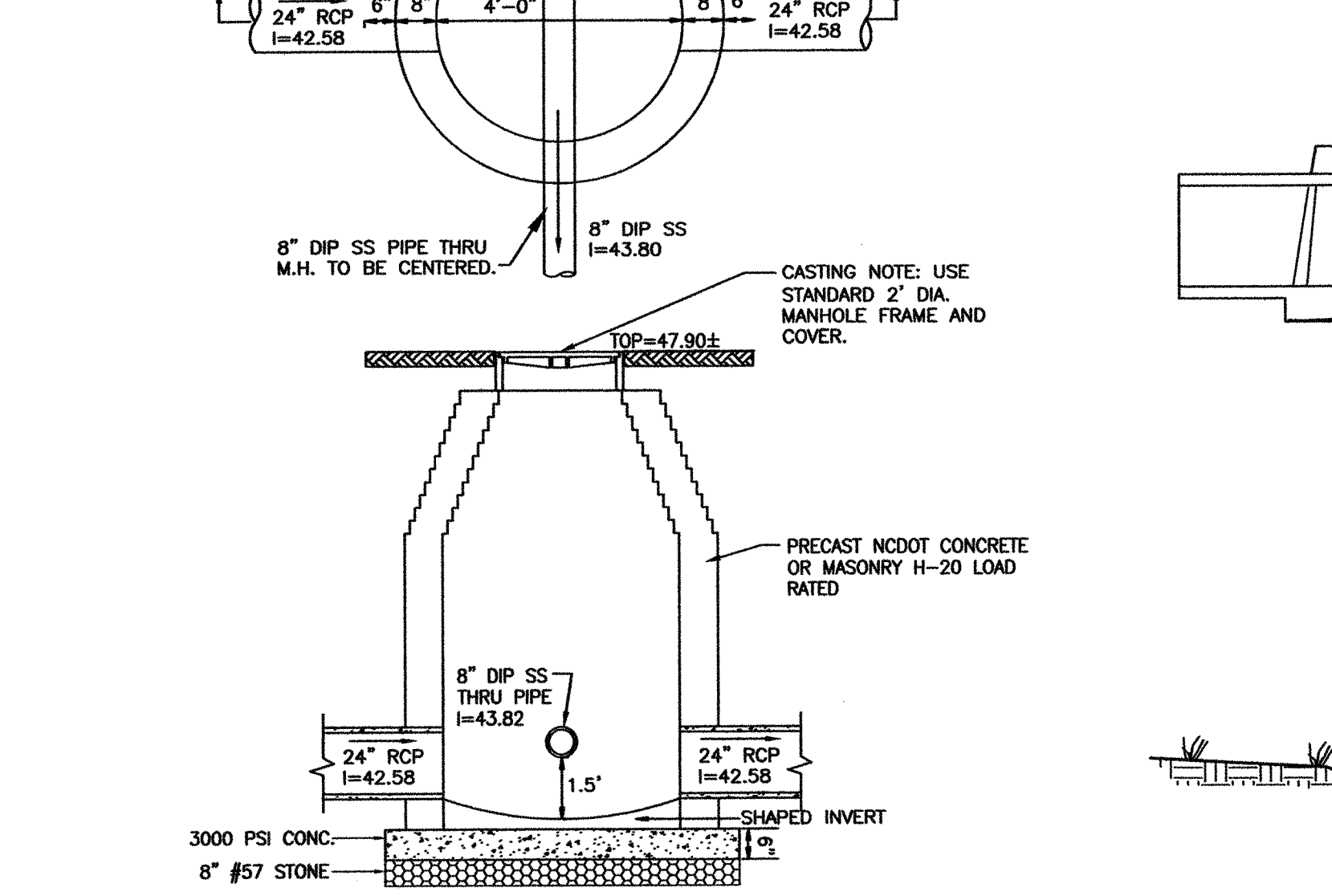
**JUNCTION BOX DETAIL**  
NTS



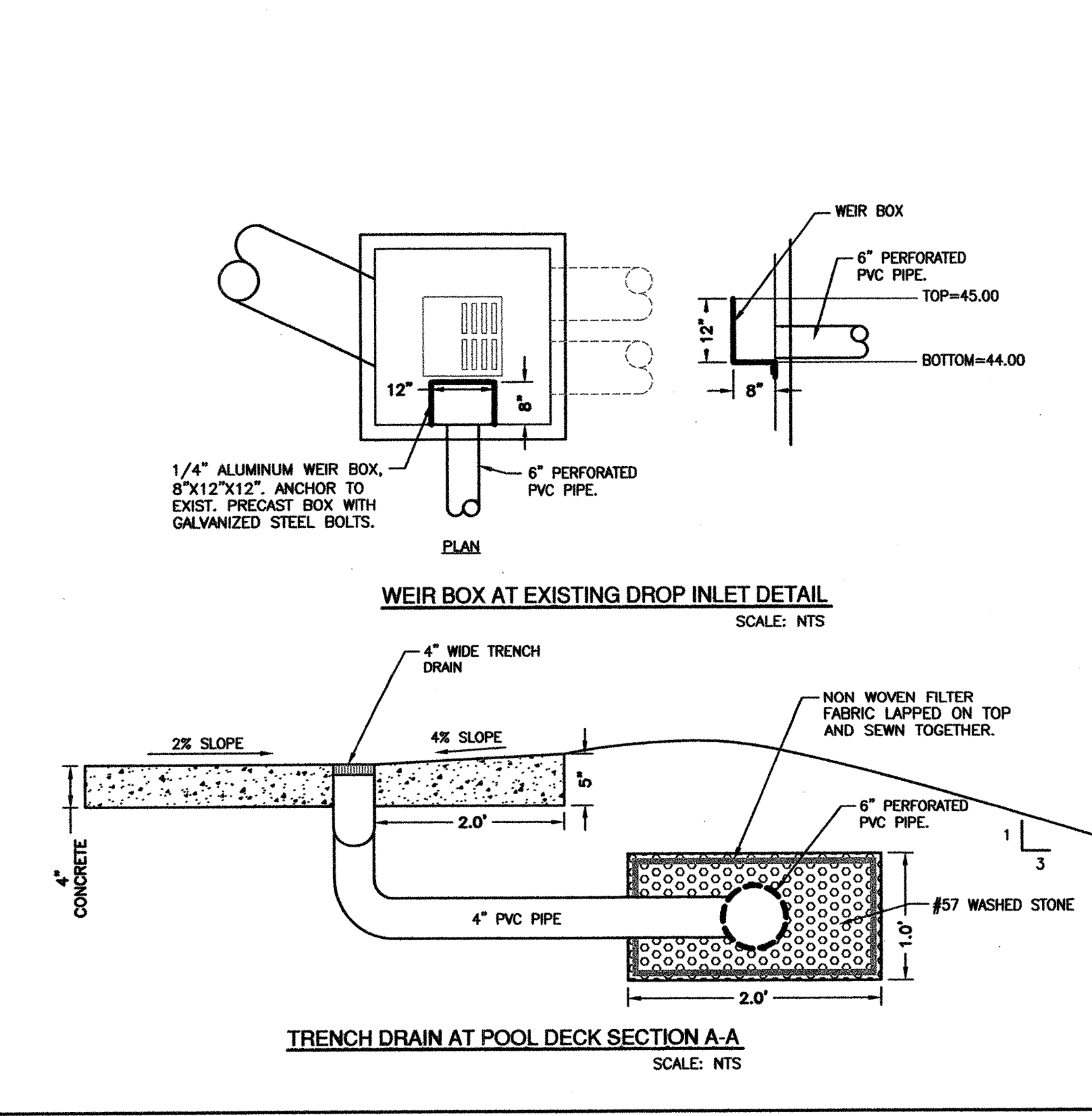
**TRENCH DRAIN AT POOL DECK DETAIL**  
SCALE: 1"=20'



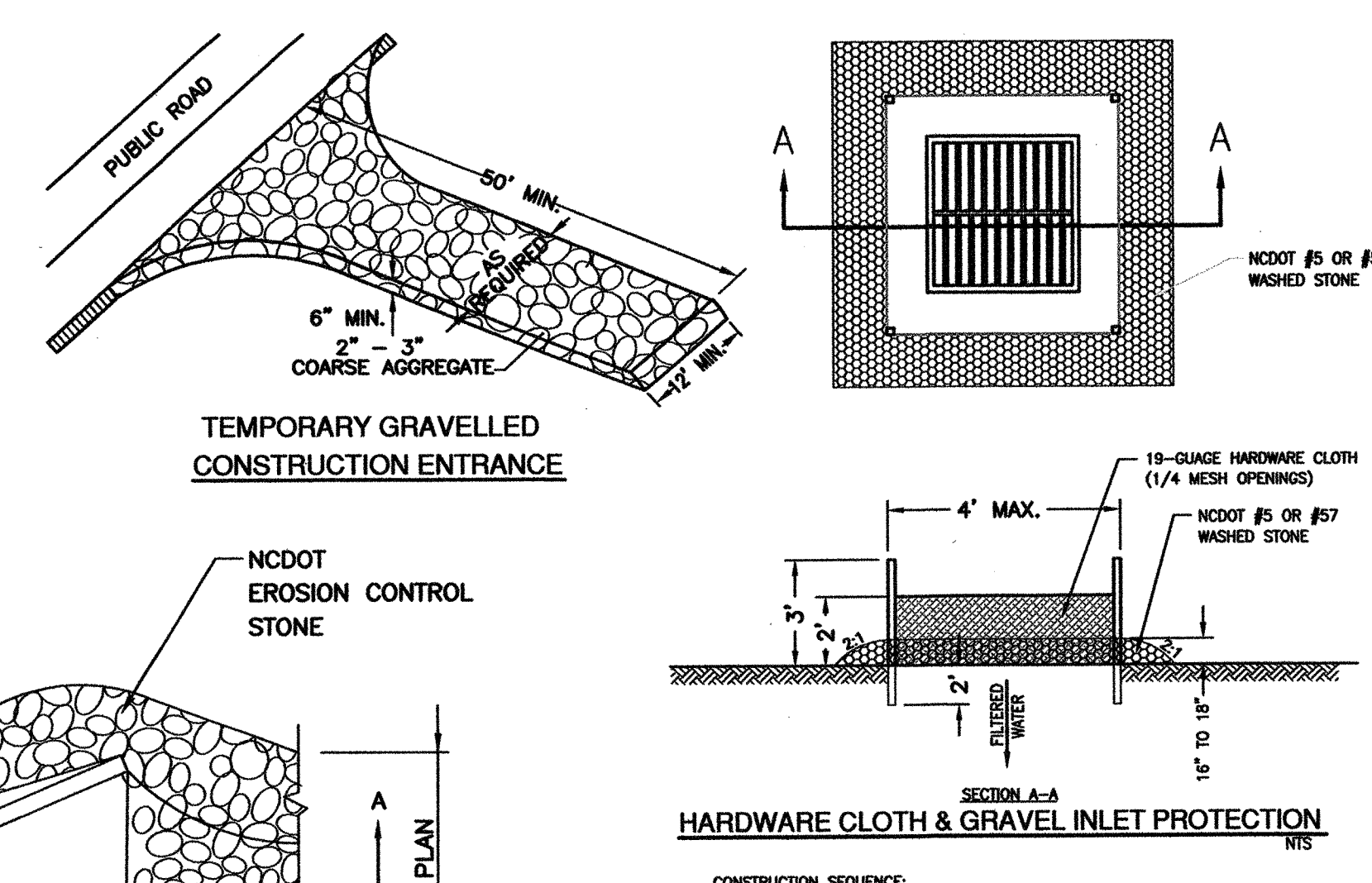
**TYPICAL CATCH BASIN**  
NTS



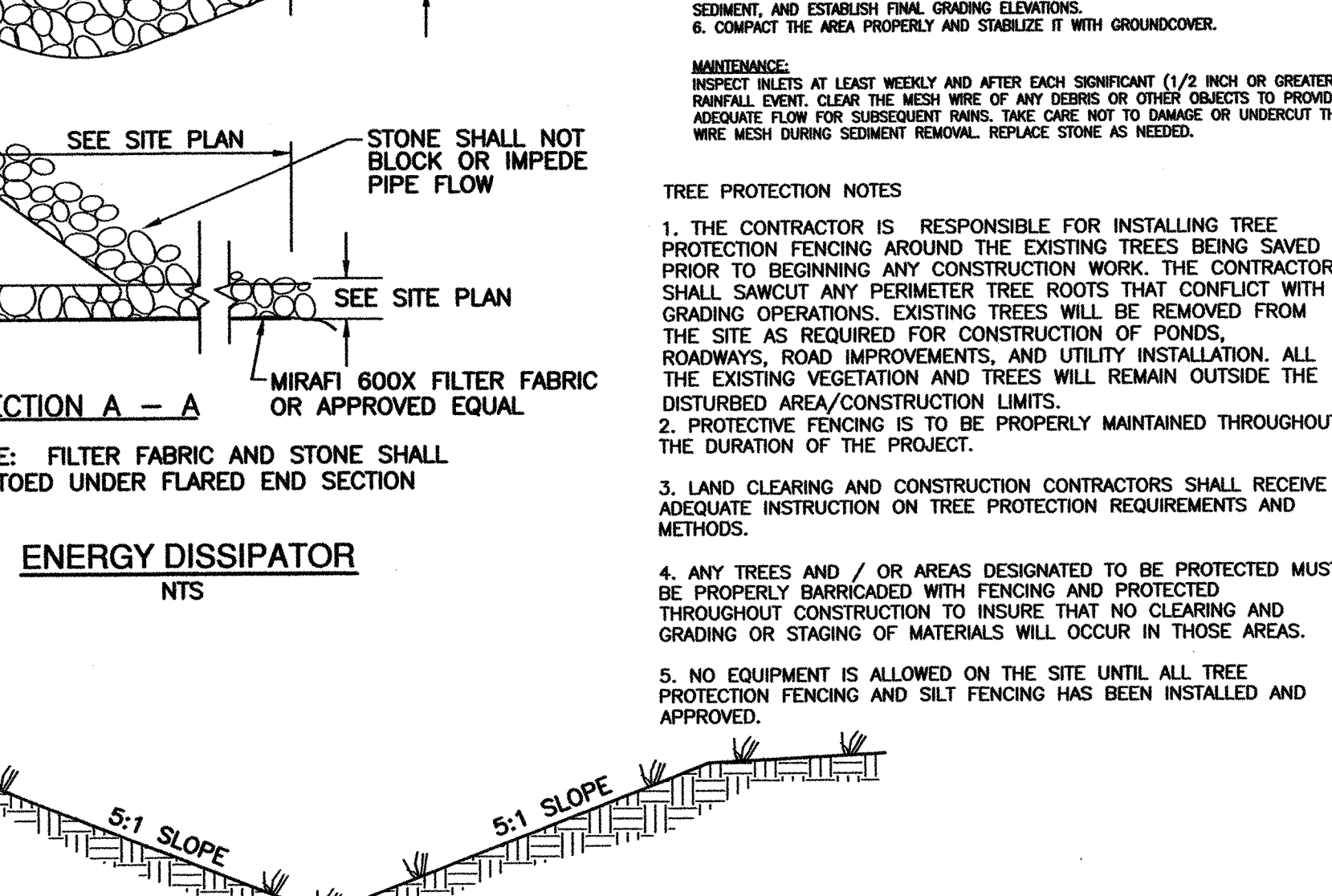
**ENERGY DISSIPATOR**  
NTS



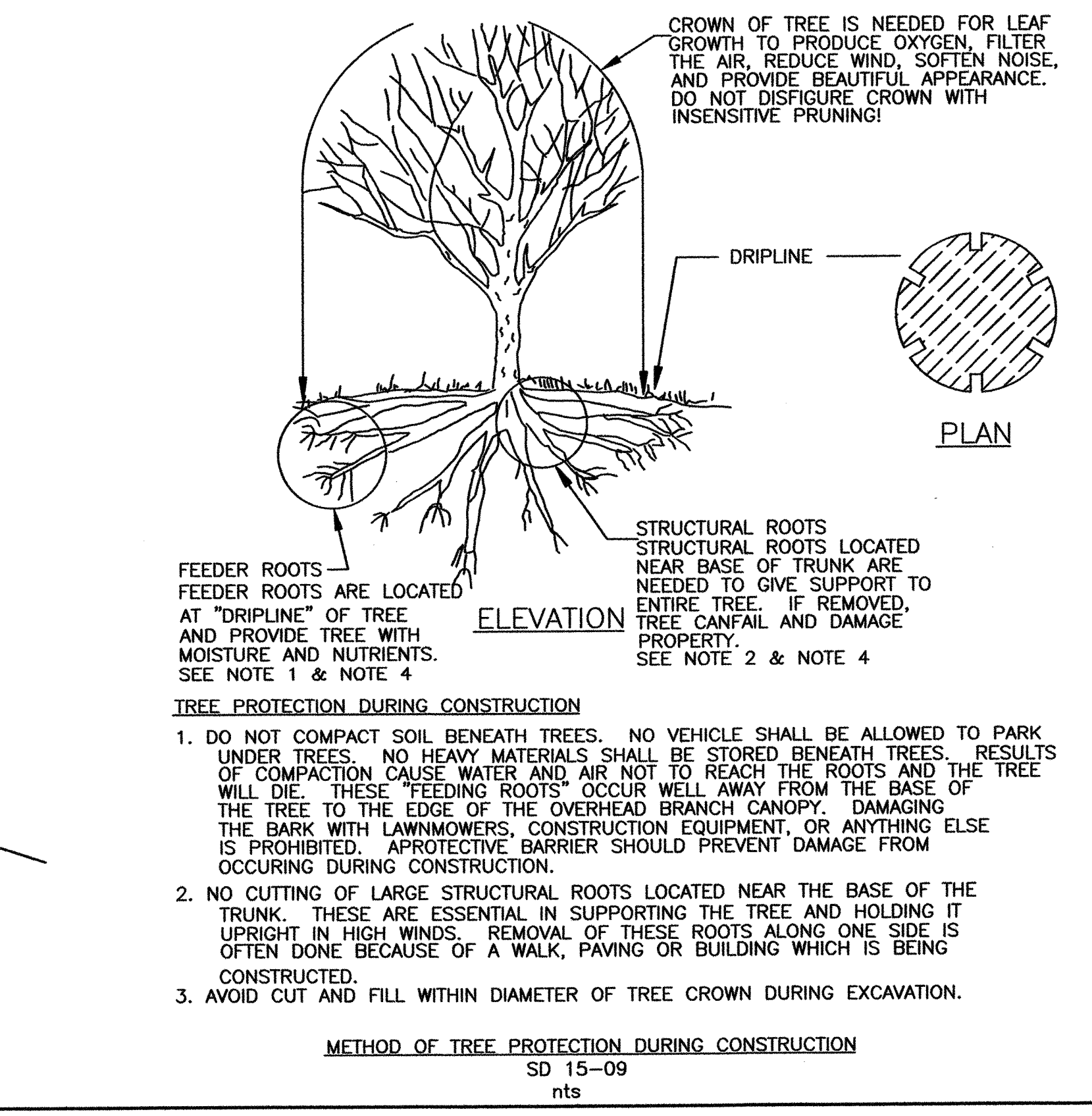
**TRENCH DRAIN AT POOL DECK SECTION A-A**  
SCALE: NTS



**TEMPORARY GRAVELLED CONSTRUCTION ENTRANCE**  
NTS



**TYPICAL GRASS SWALE**  
N.T.S.



**METHOD OF TREE PROTECTION DURING CONSTRUCTION**  
SD 15-09  
nts

**EROSION CONTROL NOTES AND MAINTENANCE PLAN**

- ALL EROSION AND SEDIMENT CONTROL MEASURES WILL BE CHECKED FOR STABILITY AND OPERATION FOLLOWING EVERY RUNOFF-PRODUCING RAINFALL, BUT IN NO CASE, LESS THAN ONCE EVERY WEEK AND WITHIN 24 HOURS OF EVERY HALF-INCH RAINFALL.
- ALL POINTS OF EGRESS WILL HAVE CONSTRUCTION ENTRANCES THAT WILL BE PERIODICALLY TOP-DRESSED WITH AN ADDITIONAL 2 INCHES OF #4 STONE TO MAINTAIN PROPER FLOW. THEY WILL BE MAINTAINED IN A CONDITION TO PREVENT MUD OR SEDIMENT FROM LEAVING THE SITE. IMMEDIATELY REMOVE OBJECTIONABLE MATERIAL SPILLED WASHED OR TRACKED ONTO THE CONSTRUCTION ENTRANCE OR ROADWAYS.
- SEDIMENT WILL BE REMOVED FROM HARDWARE CLOTH AND GRAVEL INLET PROTECTION, BLOCK AND GRAVEL INLET PROTECTION, ROCK DOUGHNUT INLET PROTECTION AND ROCK PIPE INLET PROTECTION WHEN THE DESIGNED STORAGE CAPACITY HAS BEEN FULL FILLED WITH SEDIMENT. ROCK WILL BE CLEANED OR REPLACED WHEN THE SEDIMENT POOL NO LONGER DRAINS AS DESIGNED. DEBRIS WILL BE REMOVED FROM THE ROCK AND HARDWARE CLOTH TO ALLOW PROPER DRAINAGE. SILT SACKS WILL BE EMPTIED ONCE A WEEK AND AFTER EVERY RAIN EVENT. SEDIMENT WILL BE REMOVED FROM AROUND BEAVER DAMS, DANDY SACKS AND SOCKS ONCE A WEEK AND AFTER EVERY RAIN EVENT.
- DIVERSION DITCHES WILL BE CLEANED OUT IMMEDIATELY TO REMOVE SEDIMENT OR OBSTRUCTIONS FROM THE FLOW AREA. THE DIVERSION RIDGES WILL ALSO BE REPAIRED. SWALES MUST BE TEMPORARILY STABILIZED WITHIN 21 CALENDAR DAYS OF CEASE OF ANY PHASE OF ACTIVITY ASSOCIATED WITH A SWALE.
- SEDIMENT WILL BE REMOVED FROM BEHIND THE SEDIMENT FENCE WHEN IT BECOMES HALF FILLED. THE SEDIMENT FENCE WILL BE REPAIRED AS NECESSARY TO MAINTAIN A BARRIER. STAKES MUST BE STEEL. STAKE SPACING WILL BE 6 FEET MAX. WITH THE USE OF EXTRA STRENGTH FABRIC, WITHOUT WIRE BACKING. STAKE SPACING WILL BE 8 FEET MAX. WHEN STANDARD STRENGTH FABRIC AND WIRE BACKING ARE USED. IF ROCK FILTERS ARE DESIGNED AT LOW POINTS IN THE SEDIMENT FENCE, THE ROCK WILL BE REPAIRED OR REPLACED IF IT BECOMES HALF-FULL OF SEDIMENT, NO LONGER DRAINS AS DESIGNED OR IS DAMAGED.
- SEDIMENT WILL BE REMOVED FROM SEDIMENT TRAPS WHEN THE DESIGN STORAGE CAPACITY HAS BEEN HALF FILLED WITH SEDIMENT. THE ROCK WILL BE CLEANED OR REPLACED WHEN THE SEDIMENT POOL NO LONGER DRAINS OR WHEN THE ROCK IS DISLODGED. BAFFLES WILL BE REPAIRED OR REPLACED IF THEY COLLAPSE, TEAR, DECOMPOSE OR BECOME INEFFECTIVE. THEY WILL BE REPLACED PROMPTLY. SEDIMENT WILL BE REMOVED FROM BAFFLES WHEN DEPOSITS REACH HALF THE HEIGHT OF THE 1ST BAFFLE. FLOATING SKIMMERS WILL BE INSPECTED AND KEPT CLEAN WEEKLY.
- SEDIMENT WILL BE REMOVED FROM THE SEDIMENT BASIN WHEN THE DESIGN STORAGE CAPACITY HAS BEEN HALF FILLED WITH SEDIMENT. ROCK WILL BE CLEANED OR REPLACED WHEN THE SEDIMENT POOL NO LONGER DRAINS OR IF THE ROCK IS DISLODGED. BAFFLES WILL BE REPAIRED OR REPLACED IF THEY COLLAPSE, TEAR, DECOMPOSE OR BECOME INEFFECTIVE. THEY WILL BE REPLACED PROMPTLY. SEDIMENT WILL BE REMOVED FROM BAFFLES WHEN DEPOSITS REACH HALF THE HEIGHT OF THE 1ST BAFFLE. FLOATING SKIMMERS WILL BE INSPECTED WEEKLY AND WILL BE KEPT CLEAN.
- LAND QUALITY REQUIREMENTS: ALL SEEDED AREAS WILL BE FERTILIZED, RESEED AS NECESSARY, AND MULCHED, ACCORDING TO SPECIFICATIONS IN THE VEGETATIVE PLAN, TO MAINTAIN A VIGOROUS, DENSE VEGETATIVE COVER. ALL SLOPES WILL BE STABILIZED WITHIN 21 CALENDAR DAYS. ALL OTHER AREAS WILL BE STABILIZED WITHIN 15 WORKING DAYS.
- WATER QUALITY REQUIREMENTS: ALL SEEDED AREAS WILL BE FERTILIZED, RESEED AS NECESSARY AND MULCHED ACCORDING TO SPECIFICATIONS IN THE VEGETATIVE PLAN TO MAINTAIN A VIGOROUS, DENSE VEGETATIVE COVER. ALL PERIMETER DITCHES, SWALES, PERIMETER SLOPES, ALL SLOPES STEEPER THAN 3:1 HORIZONTAL TO 1:1 VERTICAL (3:1) AND ALL HIGH QUALITY WATER (HOW) ZONES SHALL BE PROVIDED TEMPORARY OR PERMANENT STABILIZATION WITH GROUND COVER AS SOON AS PRACTICABLE BUT IN ANY EVENT WITHIN SEVEN (7) CALENDAR DAYS FROM THE LAST LAND-DISTURBING ACTIVITY. ALL OTHER DISTURBED AREAS SHALL BE PROVIDED TEMPORARY OR PERMANENT STABILIZATION WITH GROUND COVER AS SOON AS PRACTICABLE BUT IN ANY EVENT WITHIN FOURTEEN (14) CALENDAR DAYS FROM THE LAST LAND-DISTURBING ACTIVITY.
- FLOCCULANTS WILL BE USED TO ADDRESS TURBIDITY ISSUES. THE PUMPS, TANKS, HOSES AND INJECT SYSTEMS WILL BE CHECKED FOR PROBLEMS OR TURBID DISCHARGES DAILY.
- BASIN OUTLET STRUCTURES AND SKIMMERS SHALL WITHDRAW WATER FROM THE SURFACE.

**CONSTRUCTION SEQUENCE:**

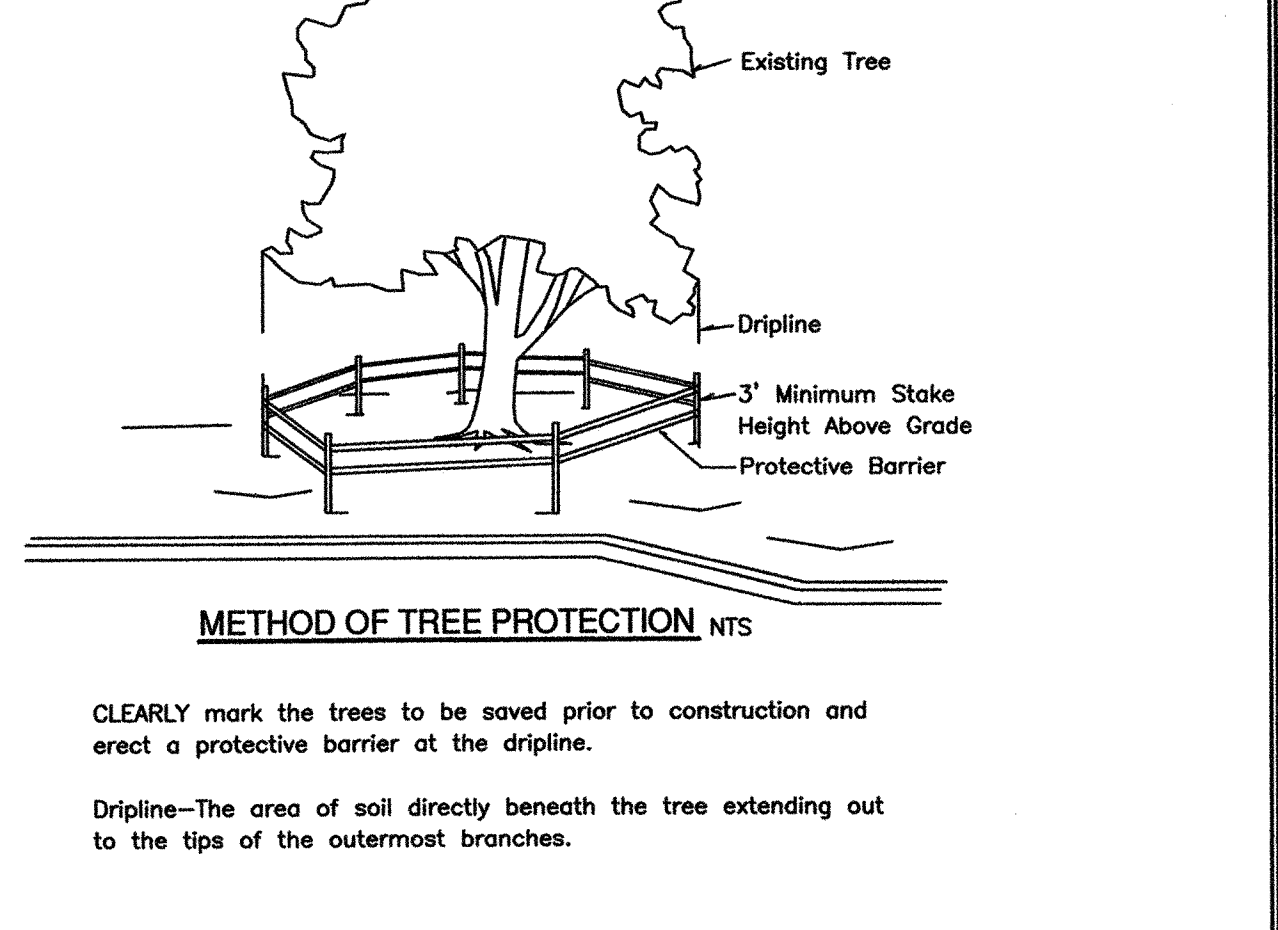
- UNIFORMLY GRADE A SHALLOW DEPRESSION APPROACHING THE INLET.
- DRIVE SS POST 2' INTO THE GROUND SURROUNDING THE INLET.
- SURROUND THE POST WITH WIRE MESH HARDWARE CLOTH. SECURE THE WIRE MESH TO THE STEEL POST AT THE TOP, MIDDLE AND BOTTOM. PLACING A 2' FLAP OF THE WIRE MESH UNDER THE GRAVEL FOR ANCHORING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

**TREE PROTECTION NOTES:**

- THE CONTRACTOR IS RESPONSIBLE FOR INSTALLING TREE PROTECTION FENCING AROUND THE EXISTING TREES BEING SAVED PRIOR TO BEGINNING ANY CONSTRUCTION WORK. THE CONTRACTOR SHALL SAWCUT ANY PERIMETER TREE ROOTS THAT CONFLICT WITH GRADING OPERATIONS. EXISTING TREES WILL BE REMOVED FROM THE SITE AS REQUIRED FOR CONSTRUCTION OF PONDS, ROADWAYS, ROAD IMPROVEMENTS, AND UTILITY INSTALLATION. ALL THE EXISTING VEGETATION AND TREES WILL REMAIN OUTSIDE THE DISTURBED AREA/CONSTRUCTION LIMITS.
- PROTECTIVE FENCING IS TO BE PROPERLY MAINTAINED THROUGHOUT THE DURATION OF THE PROJECT.
- LAND CLEARING AND CONSTRUCTION CONTRACTORS SHALL RECEIVE ADEQUATE INSTRUCTION ON TREE PROTECTION REQUIREMENTS AND METHODS.
- ANY TREES AND / OR AREAS DESIGNATED TO BE PROTECTED MUST BE PROPERLY BARRICADED WITH FENCING AND PROTECTED THROUGHOUT CONSTRUCTION TO INSURE THAT NO CLEARING AND GRADING OR STAGING OF MATERIALS WILL OCCUR IN THOSE AREAS.
- NO EQUIPMENT IS ALLOWED ON THE SITE UNTIL ALL TREE PROTECTION FENCING AND SILT FENCING HAS BEEN INSTALLED AND APPROVED.



**METHOD OF TREE PROTECTION**  
NTS

CROWN OF TREE IS NEEDED FOR LEAF GROWTH TO PRODUCE OXYGEN, FILTER THE AIR, REDUCE WIND, SOFTEN NOISE, AND PROVIDE BEAUTIFUL APPEARANCE. DO NOT DISRUPT CROWN WITH INSENSITIVE PRUNING!

DRIFLINE

3' Minimum Stake Height Above Grade Protective Barrier

Clearly mark the trees to be saved prior to construction and erect a protective barrier at the dripline.

Dripline-The area of soil directly beneath the tree extending out to the tips of the outermost branches.

**City of WILMINGTON**  
NORTH CAROLINA  
Public Services • Engineering Division  
APPROVED STORMWATER MANAGEMENT PLAN  
Date: 6/29/13 Permit # 2013020  
Signed: [Signature]

**Approved Construction Plan**  
Name: [Signature] Date: 6/29/13  
Traffic: [Signature] 6/27/13  
Fire: [Signature] 7/1/13

**NOTES AND DETAILS**

**TIBURON PARC APARTMENTS**  
2945 MOYNET WAY  
WILMINGTON, NORTH CAROLINA

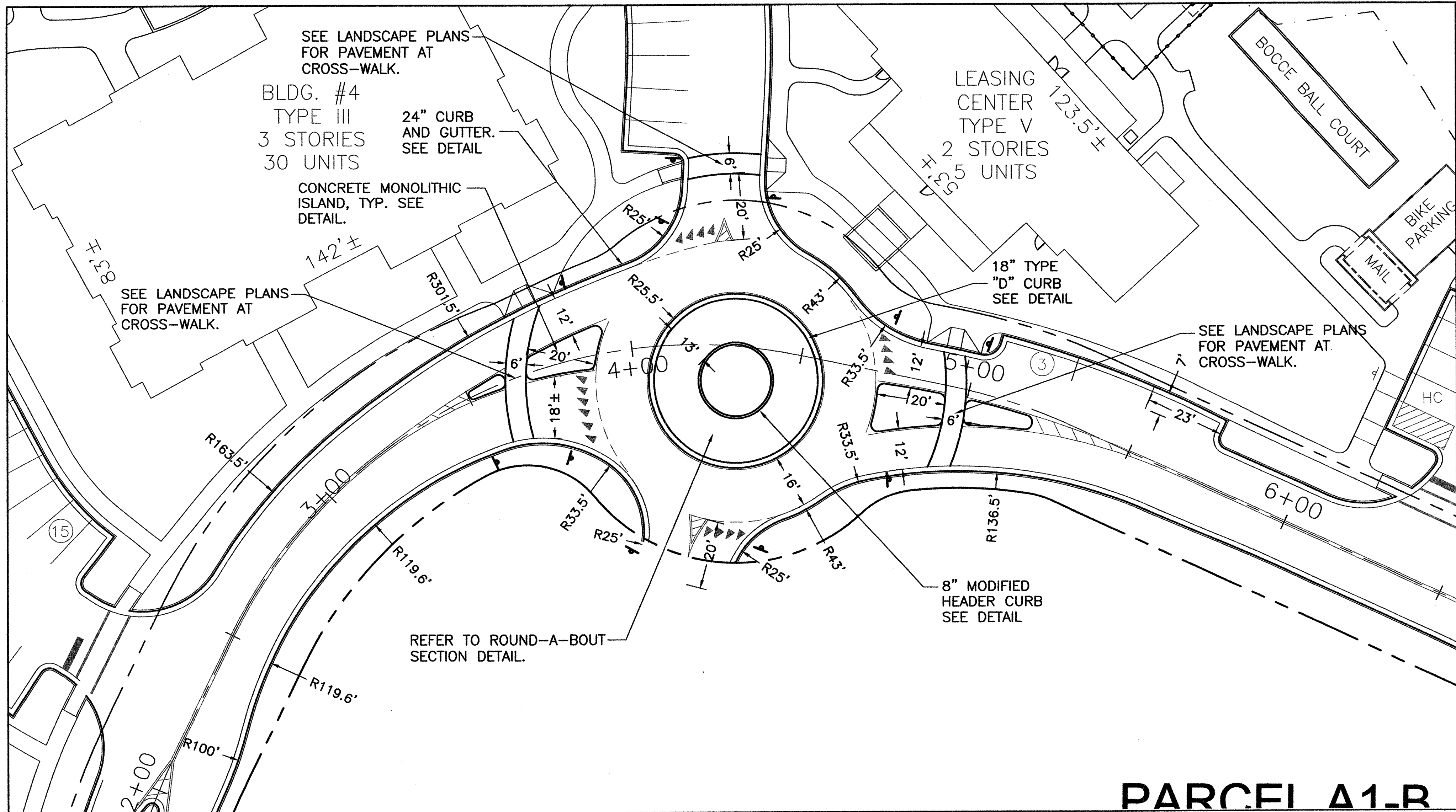
**NORRIS & TUNSTALL**  
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PHONE (910) 343-9653  
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lic-3641

**HUD/PERMIT SET**  
12073  
DES. JST  
ORD. JPN  
DRAW. NKS  
DATE 5/2/13

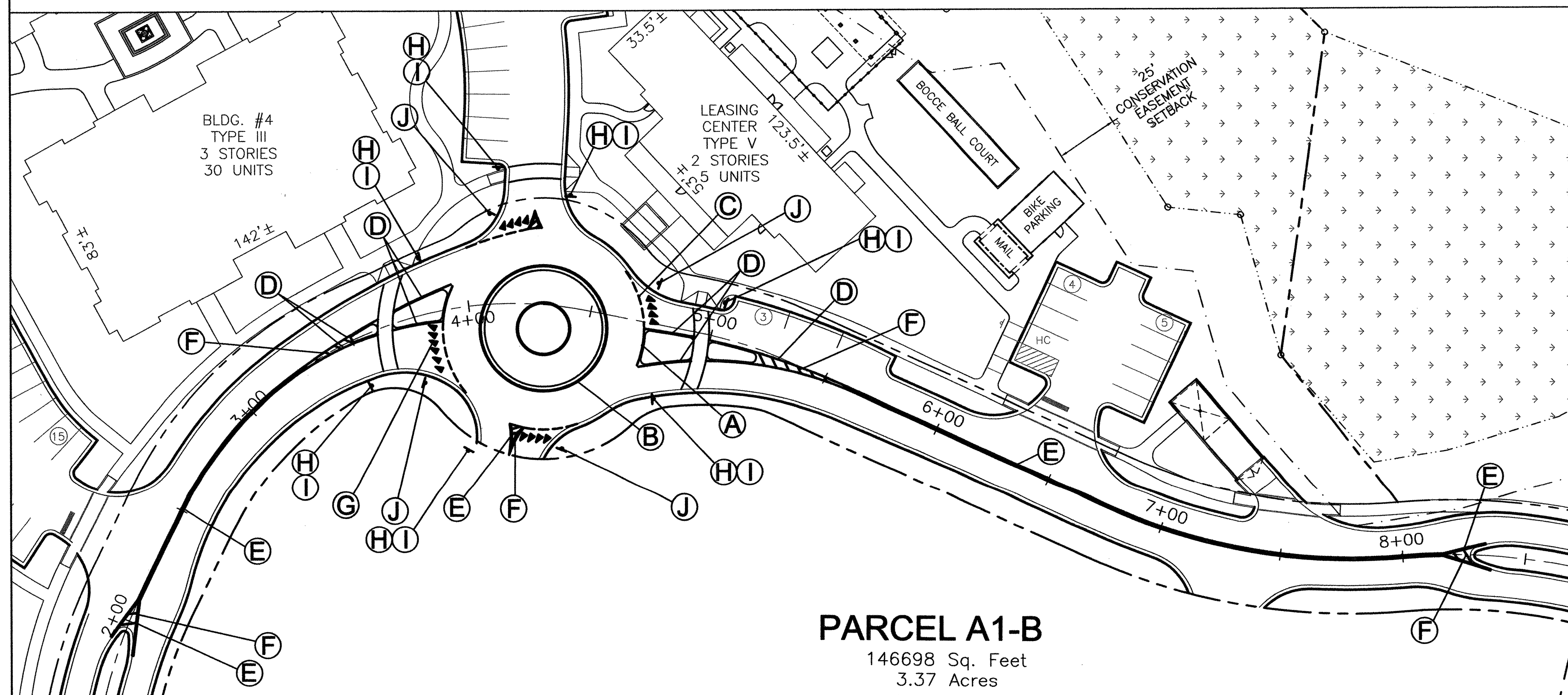
**APPROVED CONSTRUCTION PLAN**  
Name: [Signature] Date: 6/29/13  
Traffic: [Signature] 6/27/13  
Fire: [Signature] 7/1/13

**C7**





ROUND-A-BOUT LAYOUT DETAIL PLAN  
SCALE: 1"=20'



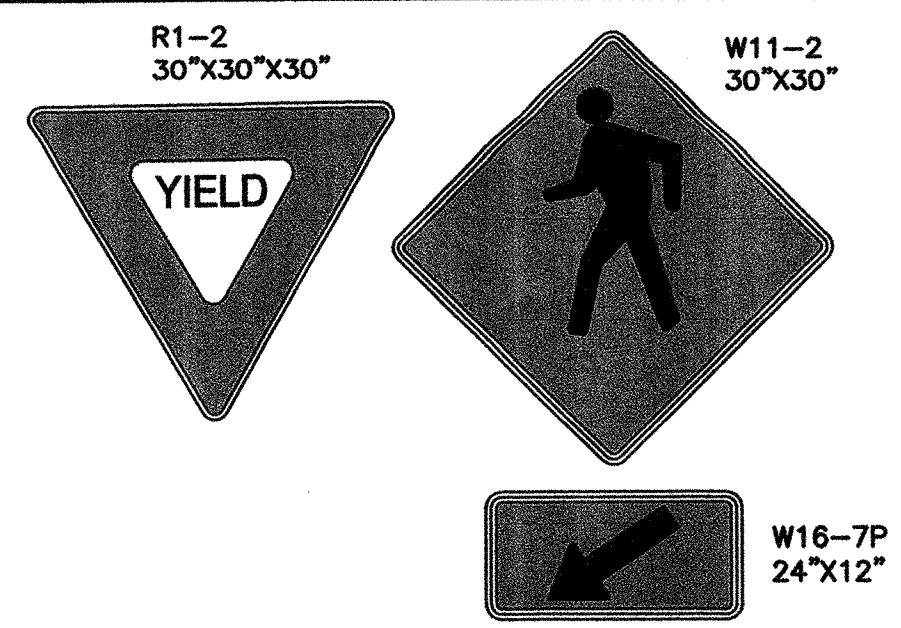
ROUND-A-BOUT PAVEMENT MARKING PLAN  
SCALE: 1"=30'

STORMWATER MANAGEMENT PLAN  
**APPROVED**  
CITY OF WILMINGTON  
ENGINEERING DEPARTMENT  
DATE 6/29/13 PERMIT # 2013020  
SIGNED [Signature]

Approved Construction Plan  
Name: [Signature] Date: 6/28/13  
Planning: [Signature] 6/27/13  
Traffic: [Signature] 6/27/13  
Fire: [Signature] 7/1/2013

- LEGEND**
- (A) 4" WHITE EDGE LINE
  - (B) 4" YELLOW EDGE LINE
  - (C) 4' 2 FT. WHITE MINI SKIP WITH 4 FT. GAP
  - (D) 4" YELLOW SINGLE CENTER LINE
  - (E) 4" YELLOW DOUBLE CENTER LINE
  - (F) 8" YELLOW DIAGONAL LINE
  - (G) WHITE TRIANGLES
  - (H) W11-2
  - (I) W16-7P
  - (J) R1-2

- NOTES:**
- All pavement markings shall be to NCDOT Standards.
  - All pavement markings shall be thermoplastic.



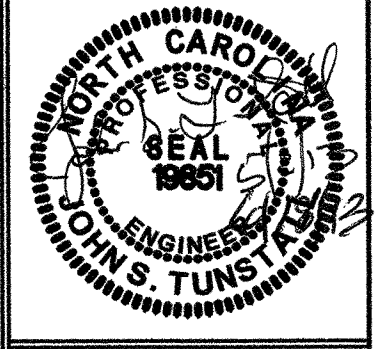
SYMBOL	DATE	DESCRIPTION	BY
REVISIONS			
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**ROUND-A-BOUT DETAILS**  
TIBURON PARC APARTMENTS  
2945 MOYNET WAY  
WILMINGTON, NORTH CAROLINA

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DES. JST  
CHK. JPN  
DRWL. NKS  
DATE 5/2/13



**C8**

**CONTINUOUS LINES**

EDGE LINE: YELLOW OR WHITE, 4" MIN.

LANE LINE: WHITE, 4" MIN.

CENTER LINE: YELLOW, 4" MIN.

GORE LINE: WHITE, 6" MIN.

DIAGONAL LINE: 1" MIN. AS SHOWN OR HIGHER, 6" MIN. LONGITUDINAL.

CROSSWALK LINE: WHITE, 6" TRANSVERSE, 24" LONGITUDINAL.

RXR LINE: WHITE, 16" MIN.

STOP OR TRANSVERSE BAR: WHITE, 24" MIN.

**10'-30'/SP SKIP LINE**

**2'-6'/SP MINI-SKIP LINE**

**3'-3'/SP MINI-SKIP LINE**

**3'-9'/SP MINI-SKIP LINE**

GENERAL NOTES:  
 1. USE 4" LANE, EDGE, AND CENTER LINES ON ALL FULL CONTROL OF ACCESS FACILITIES AND OTHER ROUTES AS DIRECTED BY THE ENGINEER.  
 2. LANE LINES INDICATED AS "WIDE" ON THE ROADWAY STANDARD DRAWINGS SHALL BE AT LEAST TWICE THE WIDTH OF THE NORMAL LINE.  
 3. GORE LINES SHALL BE TWICE THE WIDTH OF THE NORMAL LINE.

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

ENGLISH STANDARD DRAWING FOR PAVEMENT MARKINGS LINE TYPES AND OFFSETS

1205.01

**DIRECT TAPER TURN LANE**

**TURN LANE BAYS < 125 FT.**

**TURN LANE BAYS 125 - 250 FT.**

**TURN LANE BAYS 250 FT. OR GREATER**

**LEFT TURN LANE DEVELOPED FROM TWO-WAY TURN LANE**

**DOUBLE TURN LANES**

GENERAL NOTES:  
 1. USE THE GUIDANCE SHOWN ABOVE IN CONJUNCTION WITH THE INTERSECTION GUIDANCE SHOWN ON ROADWAY STANDARD DRAWING 1205.04.  
 2. THE NUMBER OF ARROWS SHOWN IS THE MINIMUM REQUIRED. USE ADDITIONAL ARROWS AS DIRECTED BY THE ENGINEER.

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

ENGLISH STANDARD DRAWING FOR PAVEMENT MARKINGS TURN LANES

1205.05

**PAVEMENT MARKER SPACING CHART**

TYPE OF PAVEMENT MARKING	TYPICAL SPACING (FT)
SKIP LINES AND CENTER LINES ALONG THRU LANES - ALONG TANGENT SECTIONS AND HORIZONTAL CURVES LESS THAN 6" HORIZONTAL CURVED ≥ 6"	80
TURN LANES - MINI-SKIP LINES	24
SKIP LINES	40
SOLID LINES	20
CENTER LINES	40
MINI-SKIP LINES AT LANE DROP APPROACHES	24
TWO-WAY RAMP CENTER LINES	40
GORE LINES	20
PAINTED ISLANDS - WHITE	20
YELLOW	40
RAISED MEDIAN ISLANDS	40
BROADWAY RAMP ARROW	5
TAPERS	40
NARROW BRIDGES - EDGE LINE	20
CENTER LINE	40
ONE LANE BRIDGES - EDGE LINE	20
WORK ZONE APPLICATIONS	
2-LANE, 2-WAY ON-SITE DIVERSION	20 FT. FOR CENTER LINE
ALL OTHER DIVERSIONS	1/2 NORMAL SPACING

GENERAL NOTES:  
 1. MARKERS ARE GENERALLY NOT REQUIRED ALONG EDGE LINES EXCEPT IF DESIGNATED IN THE PLANS OR DIRECTED BY THE ENGINEER. WHEN THEY ARE REQUIRED, SPACE THEM ON 20' FT. CENTERS, AND OFFSET 2 INCHES FROM THE EDGE LINE ON THE TRAFFIC SIDE.  
 2. PLACE CRYSTAL/RED MARKERS AT INTERSECTIONS AND INTERCHANGES WHERE VISION MAY BE IMPAIRED. POSITION THE RED SIDE OF THE MARKER TO FACE "WIDING-WAY" TRAFFIC. WHEN USED, PLACE CRYSTAL/RED MARKERS ALONG THE ENTIRE LENGTH OF THE PRODUCT.  
 3. DO NOT PLACE PAVEMENT MARKERS CLOSER THAN 3 INCHES TO A PAVEMENT CONSTRUCTION JOINT (AS FEASIBLE), EXCEPT WHEN PLACED BETWEEN DOUBLE YELLOW CENTER LINES AND ALONG YELLOW SKIP LINES ON TWO-LANE, TWO-WAY ROADWAYS WHERE PAVING IS ALLOWED IN BOTH DIRECTIONS.  
 4. DO NOT PLACE PAVEMENT MARKERS DIRECTLY ON PAVEMENT MARKING LINES.  
 5. PLACE PAVEMENT MARKERS USED IN CONJUNCTION WITH DOUBLE YELLOW CENTER LINES MID-WAY BETWEEN THE LINES. PROVIDE A GAP BETWEEN THE LINES AND THE MARKER TO PREVENT OVERSPRAYING THE MARKER DURING REMAINING OPERATIONS.  
 6. MARKERS ARE NOT REQUIRED ALONG MINI-SKIP LINES IN TAPERS.

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

ENGLISH STANDARD DRAWING FOR RAISED PAVEMENT MARKERS INSTALLATION SPACING

1250.01

**EDGE LINE OFFSET DETAIL**

**CENTER LINE OFFSET DETAIL**

**LANE LINE OFFSET DETAIL**

**MULTI-LANE ROADWAY**

**TWO-WAY UNDIVIDED ROADWAY**

**TWO-WAY UNDIVIDED ROADWAY WITH TWO-WAY LEFT TURN LANE**

TABLE 1  
 EDGE LINE OFFSET FOR 2-LANE, 2-WAY ROADWAYS WITH UNPAVED SHOULDERS

WIDTH (W) OF TRAVEL LANE	MIN. EDGE LINE OFFSET FROM E.O.T.	MIN. LANE WIDTH
10'	4"	8'-6"
12'	4"	10'
14'	4"	10'-6"
16'	4"	11'
18'	4"	11'-6"
20'	4"	12'
22'	4"	12'-6"
24'	4"	13'
26'	4"	13'-6"
28'	4"	14'
30'	4"	14'-6"

LEGEND:  
 W = WIDTH OF TRAVEL LANE  
 E.O.T. = EDGE OF TRAVEL  
 ● = DIRECTION OF TRAFFIC FLOW

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

ENGLISH STANDARD DRAWING FOR PAVEMENT MARKINGS LINE TYPES AND OFFSETS

1205.01

**HI-VISIBILITY CROSSWALK**

**STANDARD CROSSWALK**

GENERAL NOTES:  
 1. THE MINIMUM WIDTH OF STANDARD CROSSWALKS IS 6 FEET. THE MINIMUM WIDTH OF HI-VISIBILITY CROSSWALKS IS 10 FEET.  
 2. SET BACK DISTANCE FROM INSIDE CROSSWALK MARKING TO NEAREST EDGE OF TRAVEL IS 4' MIN.  
 3. BEYOND THE CURB FACE, A CLEAR SPACE OF 4' X 4' FEET MINIMUM SHALL BE PROVIDED WITHIN THE WIDTH OF THE CROSSWALK.  
 4. PLACE STOP BARS A MINIMUM OF 4 FEET FROM NEAREST CROSSWALK LINE. STOP BARS AT SIGNALIZED INTERSECTIONS SHOULD BE COORDINATED WITH THE SIGNAL DESIGN SECTION OR AS DIRECTED BY THE ENGINEER.  
 5. CURB RAMP SHALL BE CONSTRUCTED IN ACCORDANCE TO THE LATEST ROADWAY STANDARD DRAWINGS.

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

ENGLISH STANDARD DRAWING FOR PAVEMENT MARKINGS PEDESTRIAN CROSSWALKS

1205.07

**10'-30'/SP SKIP LINE**

**3'-9'/SP MINI-SKIP LINE**

**GORE LINES**

**YELLOW CENTER LINES**

**DETAIL OF PAVEMENT MARKER PLACEMENT**

**SNOWPLOWABLE RAISED PAVEMENT MARKERS**

**RAISED REFLECTIVE PAVEMENT MARKERS**

LEGEND:  
 ● CRYSTAL/RED PAVEMENT MARKER  
 ◆ YELLOW/YELLOW PAVEMENT MARKER  
 → DIRECTION OF TRAFFIC FLOW

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

ENGLISH STANDARD DRAWING FOR RAISED PAVEMENT MARKERS INSTALLATION SPACING

1250.01

**TWO-LANE, TWO-WAY ROADWAY**

**UNDIVIDED MULTI-LANE ROADWAY**

**DIVIDED MULTI-LANE ROADWAY WITH TURN BAY**

**DIVIDED MULTI-LANE ROADWAY WITH WIDE MEDIAN CROSSOVER**

GENERAL NOTES:  
 1. PLACEMENT OF STOP BARS AT NON-SIGNALIZED INTERSECTIONS IS OPTIONAL AND USED WHERE IT IS IMPORTANT TO INDICATE THE POINT WHICH VEHICLES ARE REQUIRED TO STOP. PLACE STOP BARS NO LESS THAN 4 FEET AND NO MORE THAN 20 FEET FROM THE NEAREST EDGE OF THE INTERSECTING ROADWAY. USE 10 FEET AS THE TYPICAL SETBACK DISTANCE OR AS DIRECTED BY THE ENGINEER.  
 2. MINI-SKIP LANE LINE EXTENSIONS SHOULD BE USED AT INTERSECTIONS THAT HAVE REDUCED TRAFFIC CONDITIONS SUCH AS OFFSET, SKEDD, OR CURVED ROADWAYS.  
 3. MINI-SKIP EDGE LINE EXTENSIONS MAY BE PLACED THROUGH INTERSECTIONS AND MAJOR DRIVEWAYS.  
 4. REFER TO ROADWAY STANDARD DRAWINGS 1205.01, 1205.02, 1205.05, 1205.09 AND 1205.09 FOR ADDITIONAL PAVEMENT MARKING GUIDANCE.

LEGEND:  
 ○ STOP SIGN  
 □ STATIONARY SIGN  
 ● DIRECTION OF TRAFFIC FLOW  
 ◆ PAVEMENT MARKING SYMBOLS  
 → OPTIONAL

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

ENGLISH STANDARD DRAWING FOR PAVEMENT MARKINGS INTERSECTIONS

1205.04

**PARTIAL LONGITUDINAL SECTIONS OF PAVED ISLANDS**

**5" MONOLITHIC CONCRETE ISLAND (SURFACE MOUNTED) ON ASPHALT CONCRETE PAVEMENT**

**5" MONOLITHIC CONCRETE ISLAND (KEYED IN) ON ASPHALT CONCRETE PAVEMENT**

**5" MONOLITHIC CONCRETE ISLAND (SURFACE MOUNTED) ON CONCRETE PAVEMENT**

**PAVED CONCRETE ISLAND**

NOTE:  
 WHEN MONOLITHIC CONCRETE ISLAND IS ON TOP OF SURFACE COURSE, DRIVE 40d SPIKES INTO SURFACE UNDER MONOLITHIC CONCRETE ISLAND. STAGGER SPIKES ON 2' CENTERS EACH WAY.  
 IN THE CONCRETE PAVEMENT (ISLAND) AND CONCRETE ISLAND (MONOLITHIC) PLACE 1/2" EXPANSION JOINTS AT 30' INTERVALS AND GROOVED JOINTS 1" DEEP AT 10' INTERVALS BETWEEN EXPANSION JOINTS.  
 LINE UP THE JOINTS IN THE CONCRETE PAVEMENT (ISLAND) WITH THE JOINTS IN THE CURB OR CURB AND GUTTER.  
 FILL AND SEAL THE TOP 1/2" OF THE EXPANSION JOINTS AND THE ENTIRE DEPTH OF GROOVED JOINTS WITH JOINT SEALER.  
 FOR JOINTS IN THE CURB AND/OR CURB AND GUTTER, SEE STANDARD NO. 646.01

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

ENGLISH STANDARD DRAWING FOR CONCRETE ISLANDS

852.01

**AUXILIARY TURN LANES**

**YELLOW PAINTED ISLANDS**

**WHITE PAINTED ISLANDS**

LEGEND:  
 ● DIRECTION OF TRAFFIC FLOW  
 ◆ CRYSTAL/RED PAVEMENT MARKER  
 ◆ YELLOW/YELLOW PAVEMENT MARKER  
 → PAVEMENT MARKING SYMBOL

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

ENGLISH STANDARD DRAWING FOR RAISED PAVEMENT MARKERS INSTALLATION SPACING

1250.01

STORMWATER MANAGEMENT PLAN  
**APPROVED**  
 CITY OF WILMINGTON  
 ENGINEERING DEPARTMENT  
 DATE 6/24/13 PERMIT # 2013020  
 SIGNED [Signature]

Approved Construction Plan  
 Name: [Signature] Date: 6/26/13  
 Planning: [Signature] Traffic: [Signature] Fire: [Signature]  
 7/1/2013

**NOTES AND DETAILS**

TIBURON PARC APARTMENTS  
 2945 MOYNET WAY  
 WILMINGTON, NORTH CAROLINA

OWNER:  
 NELSON MACRAE  
 MIDTOWN ONE LLC  
 P.O. BOX 3145  
 WILMINGTON, N.C. 28406  
 910-392-3900

**NORRIS & TUNSTALL**  
 CONSULTING ENGINEERS, INC.  
 1127 FLORAL PARKWAY  
 SUITE 400  
 WILMINGTON, NC, 28403  
 PHONE (910) 343-9853  
 FAX (910) 343-9804  
 office@nteng.com  
 license #C-3641

HUD/PERMIT SET  
 12073  
 DES. JST  
 ORD. JPN  
 DRWN. NKS  
 DATE 5/2/13

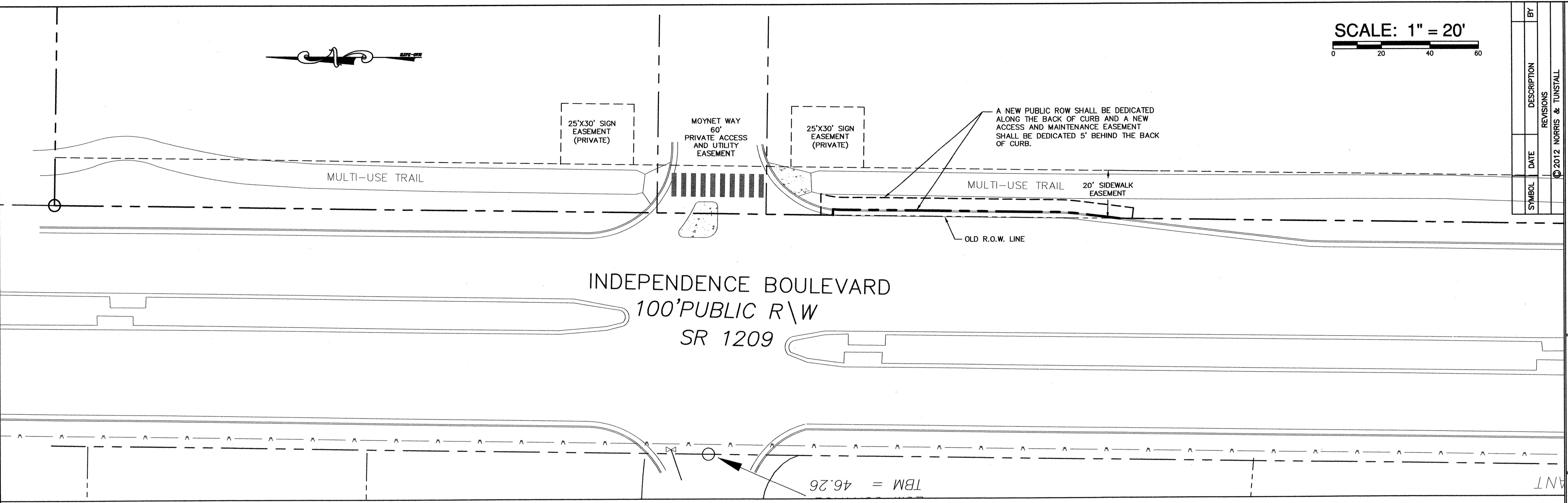
STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C.

ENGLISH STANDARD DRAWING FOR RAISED PAVEMENT MARKERS INSTALLATION SPACING

1250.01



SCALE: 1" = 20'  
0 20 40 60



INDEPENDENCE BOULEVARD  
100' PUBLIC R\W  
SR 1209

TBM = 46.26

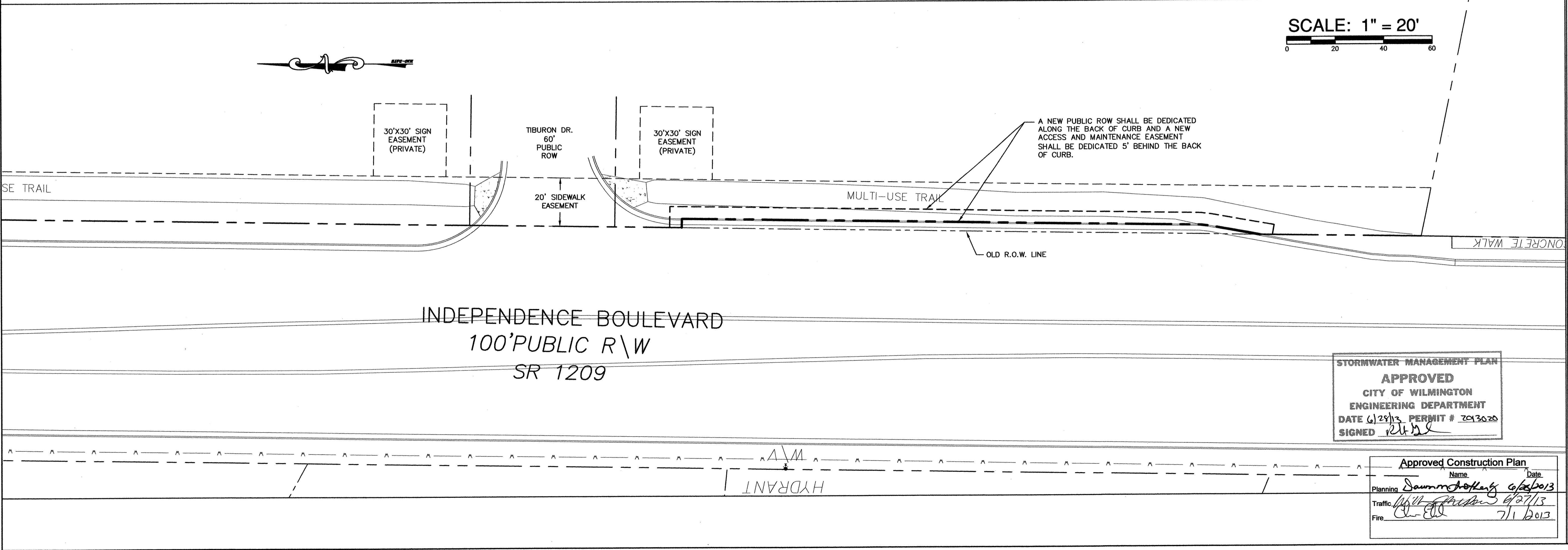
SYMBOL	DATE	DESCRIPTION	BY
		REVISIONS	
		© 2012 NORRIS & TUNSTALL	

RIGHT-OF-WAY DEDICATION AND  
ACCESS AND MAINTENANCE EASEMENT  
TIBURON PARC APARTMENTS  
2945 MOYNET WAY  
WILMINGTON, NORTH CAROLINA

OWNER:  
NELSON MACRAE  
MIDTOWN ONE, LLC  
P.O. BOX 3145  
WILMINGTON, N.C. 28408  
910-392-3300



SCALE: 1" = 20'  
0 20 40 60



INDEPENDENCE BOULEVARD  
100' PUBLIC R\W  
SR 1209

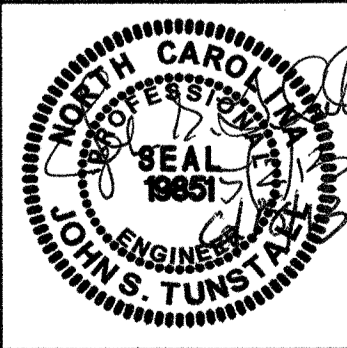
HYDRANT

STORMWATER MANAGEMENT PLAN  
APPROVED  
CITY OF WILMINGTON  
ENGINEERING DEPARTMENT  
DATE 6/29/13 PERMIT # ZC13020  
SIGNED *[Signature]*

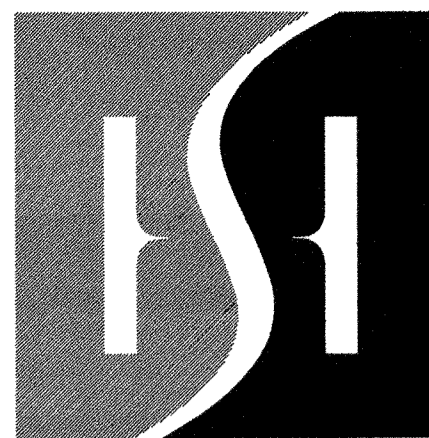
Approved Construction Plan	
Name	Date
Planning <i>[Signature]</i>	6/26/13
Traffic <i>[Signature]</i>	6/27/13
Fire <i>[Signature]</i>	7/1/2013

NORRIS & TUNSTALL  
CONSULTING ENGINEERS, INC.  
1127 FLORAL PARKWAY  
SUITE 400  
WILMINGTON, NC, 28403  
PHONE (910) 343-9653  
FAX (910) 343-9604  
office@nkteng.com  
license #C-3641

HUD/PERMIT SET  
12073  
DES. JUST  
CRD. JPN  
DRWL. NKS  
DATE 5/2/13



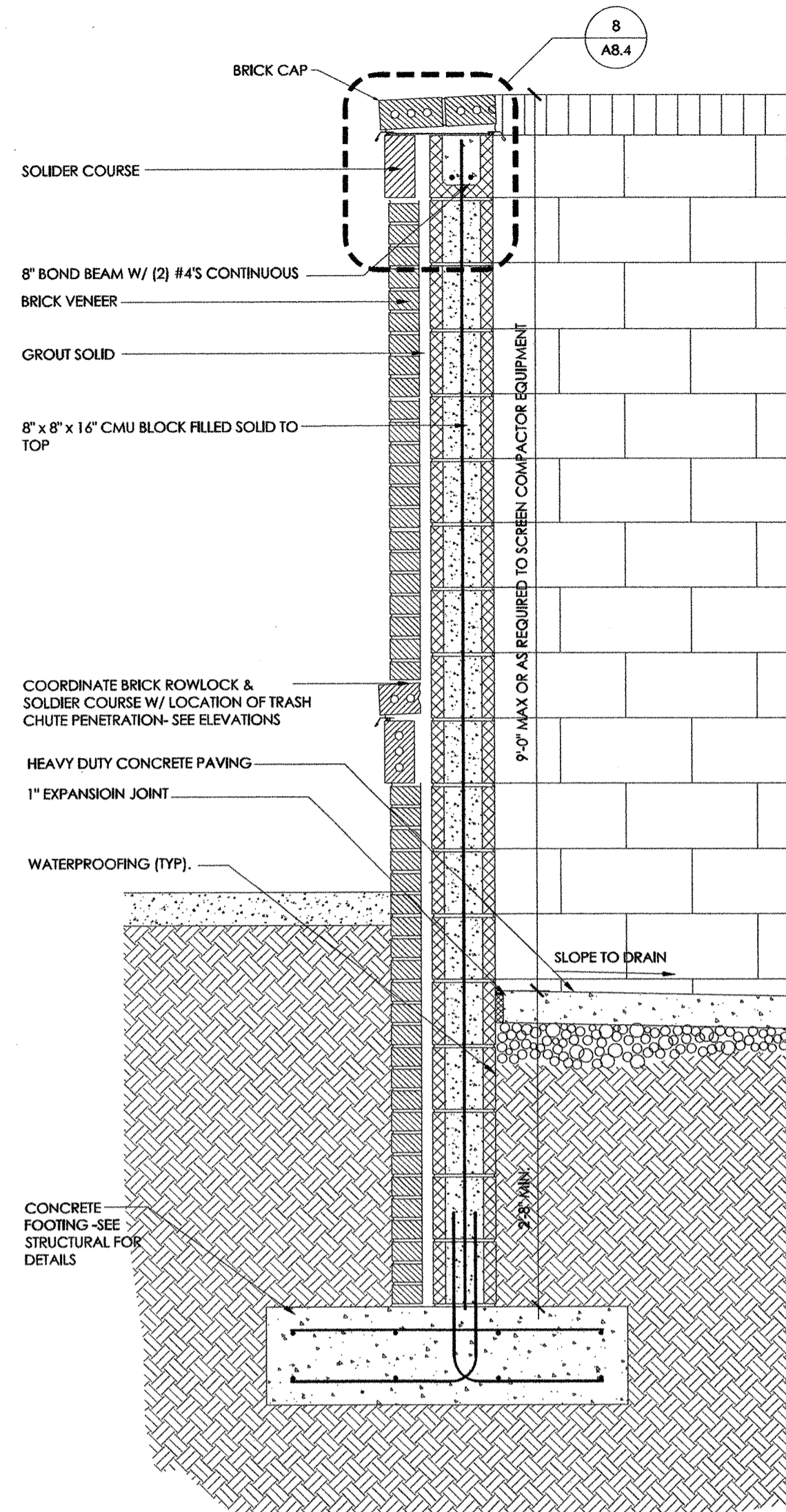
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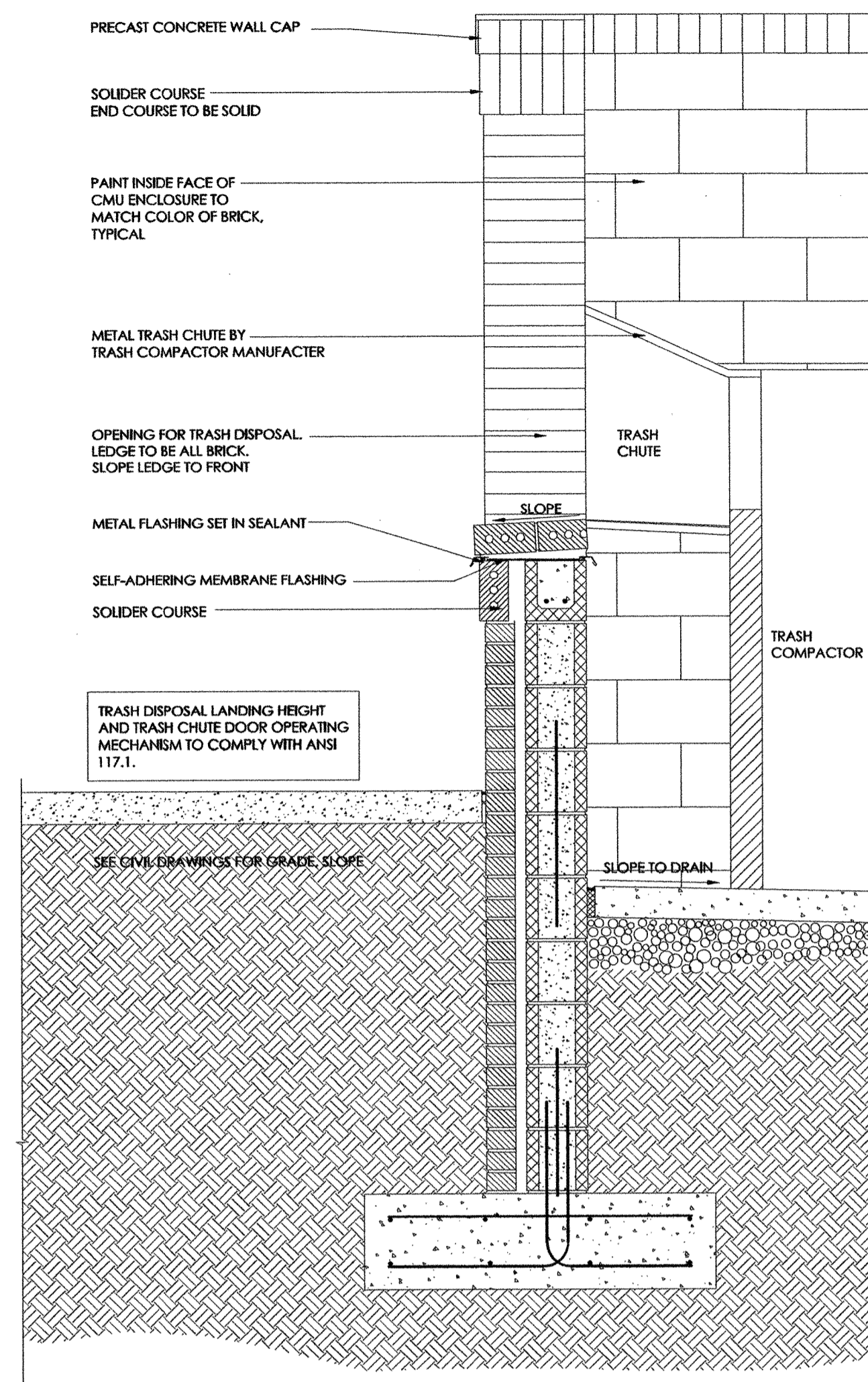
**HOUSING STUDIO**  
 333 West Trade Street, Suite 300  
 Charlotte, NC 28202  
 T: 704.333.7862 F: 704.343.9380

**TIBURON PARC**  
**APARTMENT HOMES**  
 WILMINGTON, NC

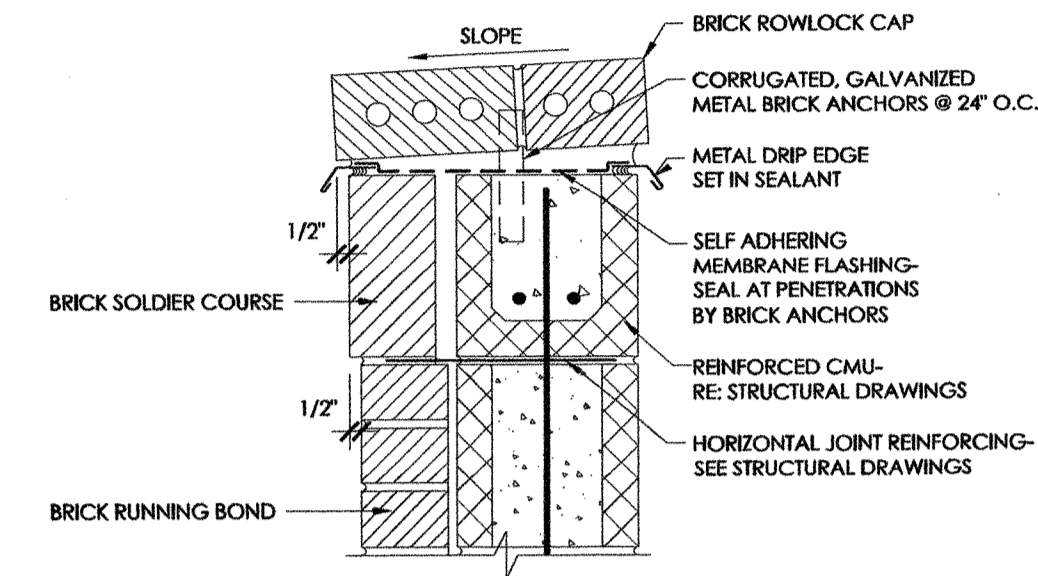
THE  
**OLEANDER**  
 COMPANY



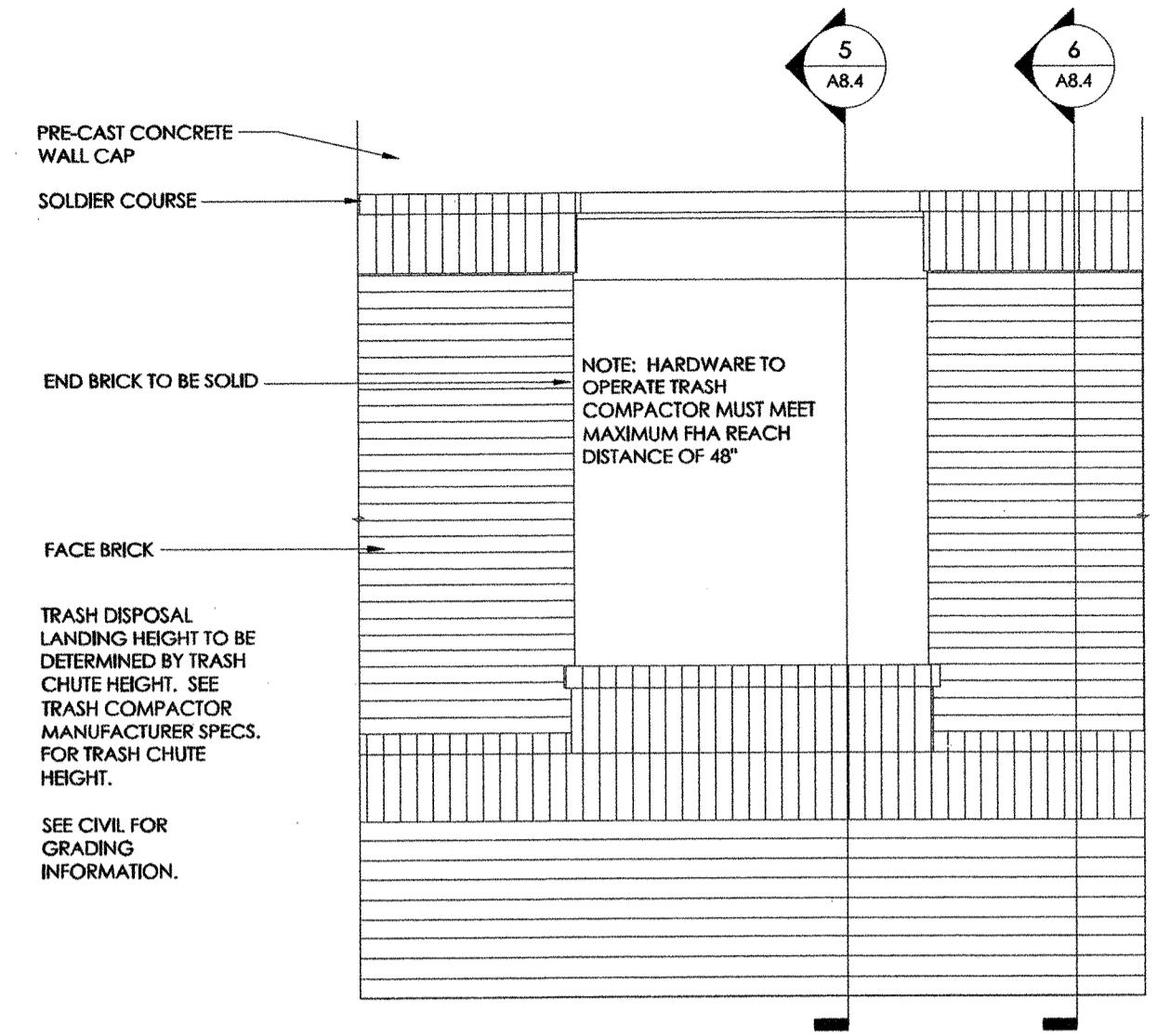
**6 DUMPSTER ENCLOSURE WALL SECTION**  
 3/4" = 1'-0"



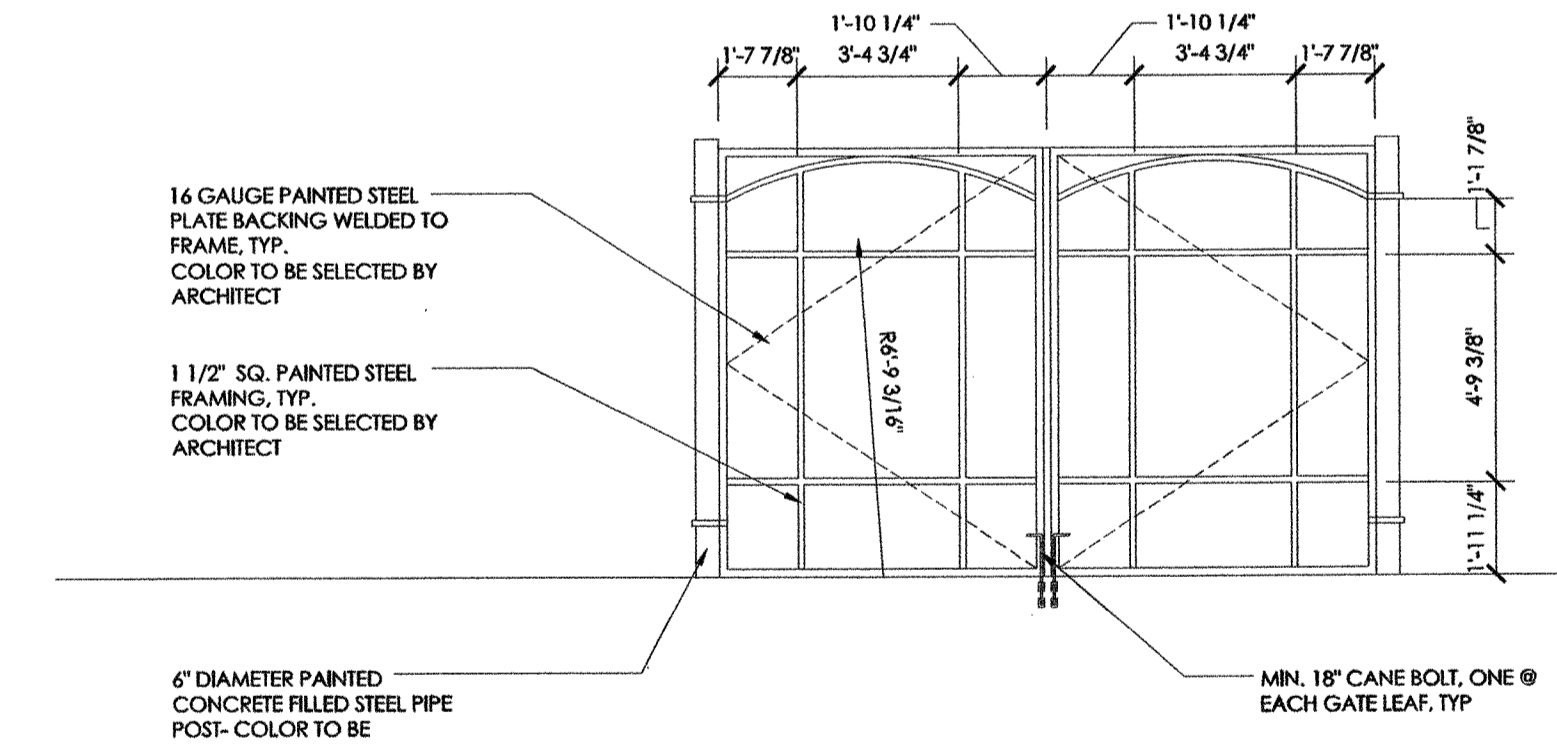
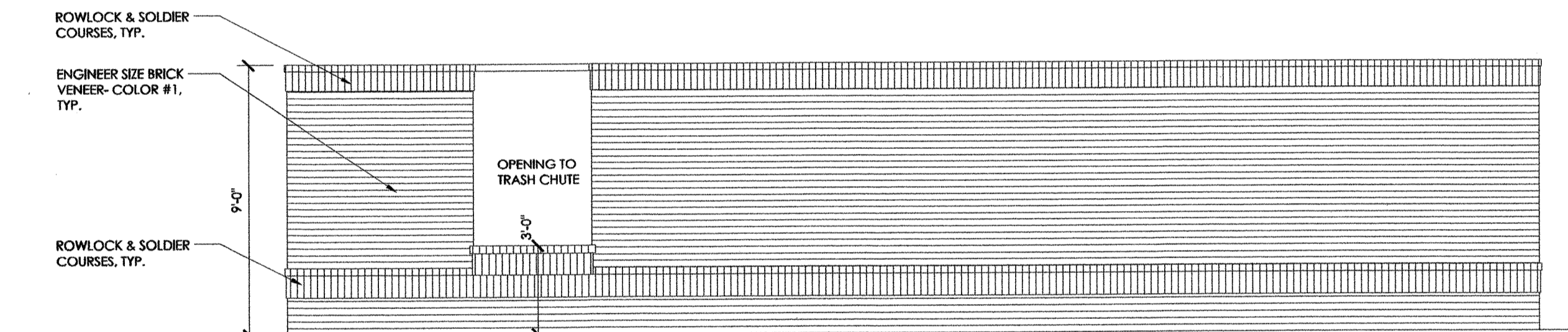
**5 TRASH CHUTE WALL SECTION**  
 3/4" = 1'-0"



**8 WALL CAP DETAIL**  
 1 1/2" = 1'-0"



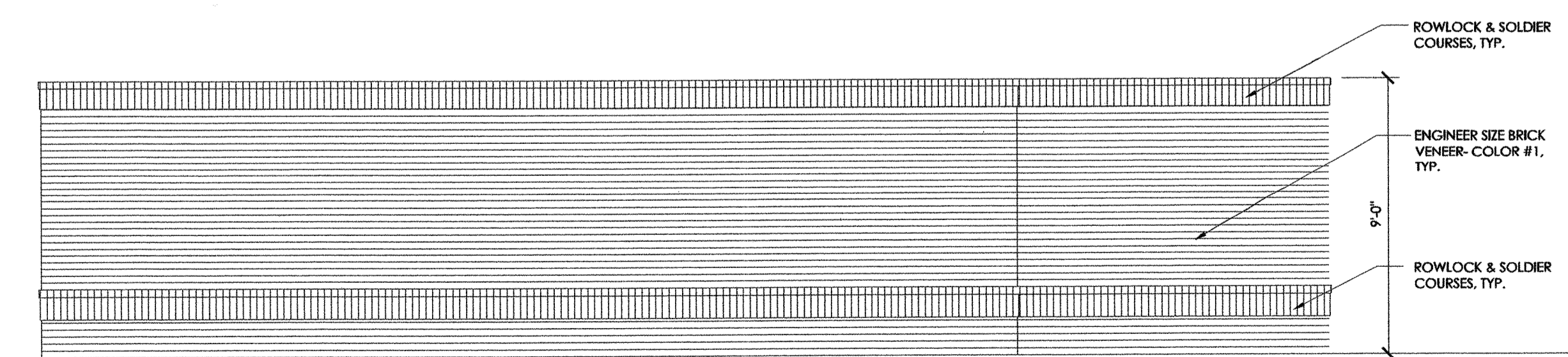
**7 DUMPSTER ENCLOSURE ENLARGED ELEVATION**  
 1/2" = 1'-0"



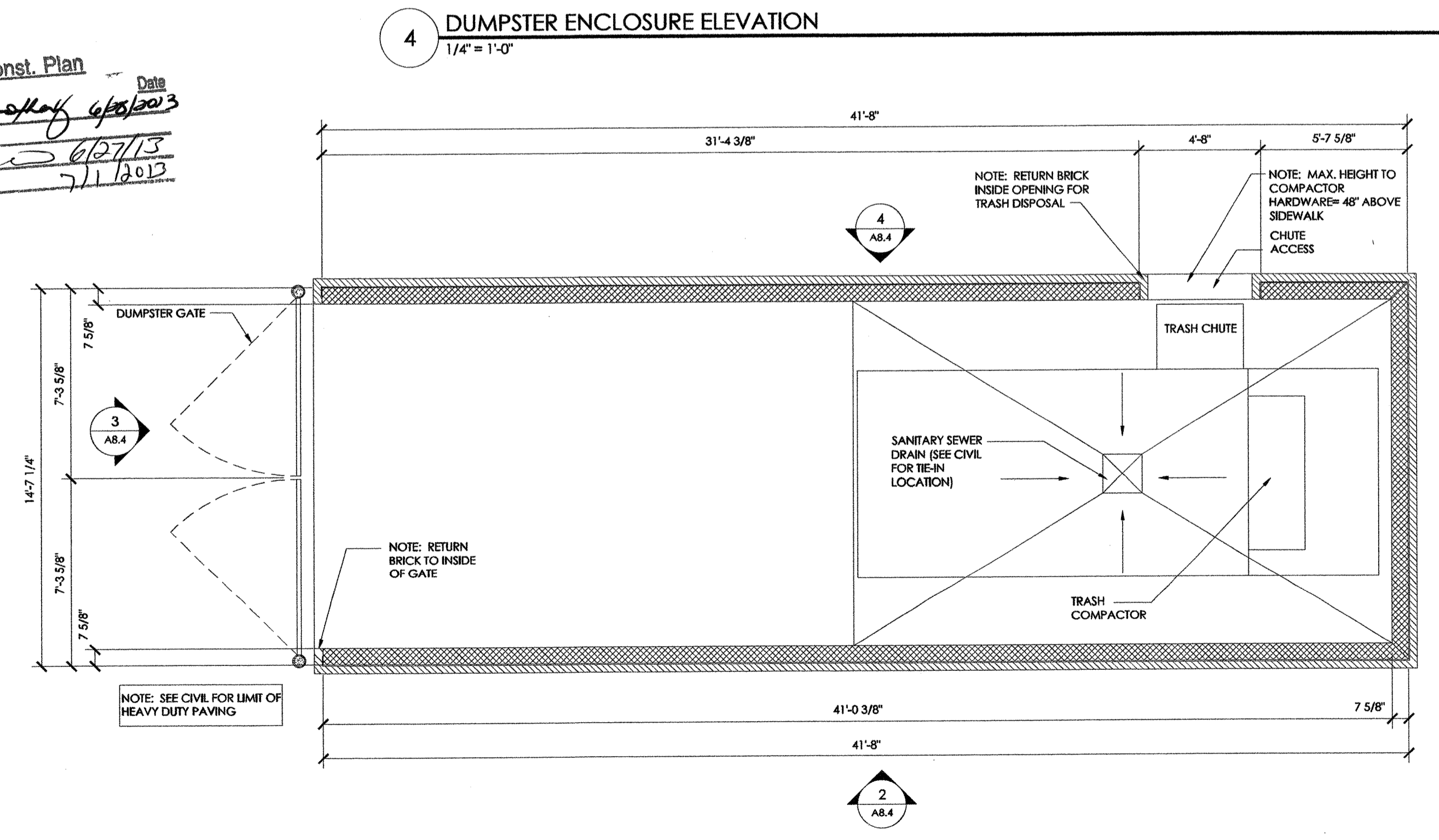
**3 DUMPSTER ENCLOSURE ELEVATION**  
 1/4" = 1'-0"

**STORMWATER MANAGEMENT PLAN**  
**APPROVED**  
 CITY OF WILMINGTON  
 ENGINEERING DEPARTMENT  
 DATE 6/29/13 PERMIT # 2613620  
 SIGNED [Signature]

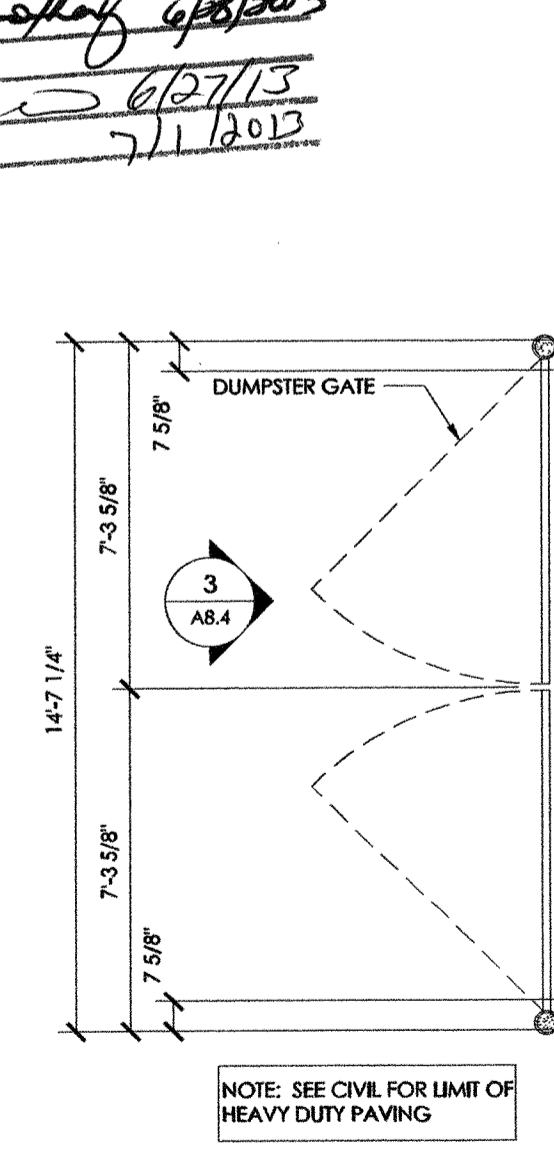
Approved Const. Plan  
 Name [Signature] Date 6/29/13  
 Planning [Signature] 6/27/13  
 Public Utilities [Signature] 6/27/13  
 Traffic [Signature] 7/1/2013  
 Fire [Signature]



**2 DUMPSTER ENCLOSURE ELEVATION**  
 1/4" = 1'-0"



**4 DUMPSTER ENCLOSURE ELEVATION**  
 1/4" = 1'-0"

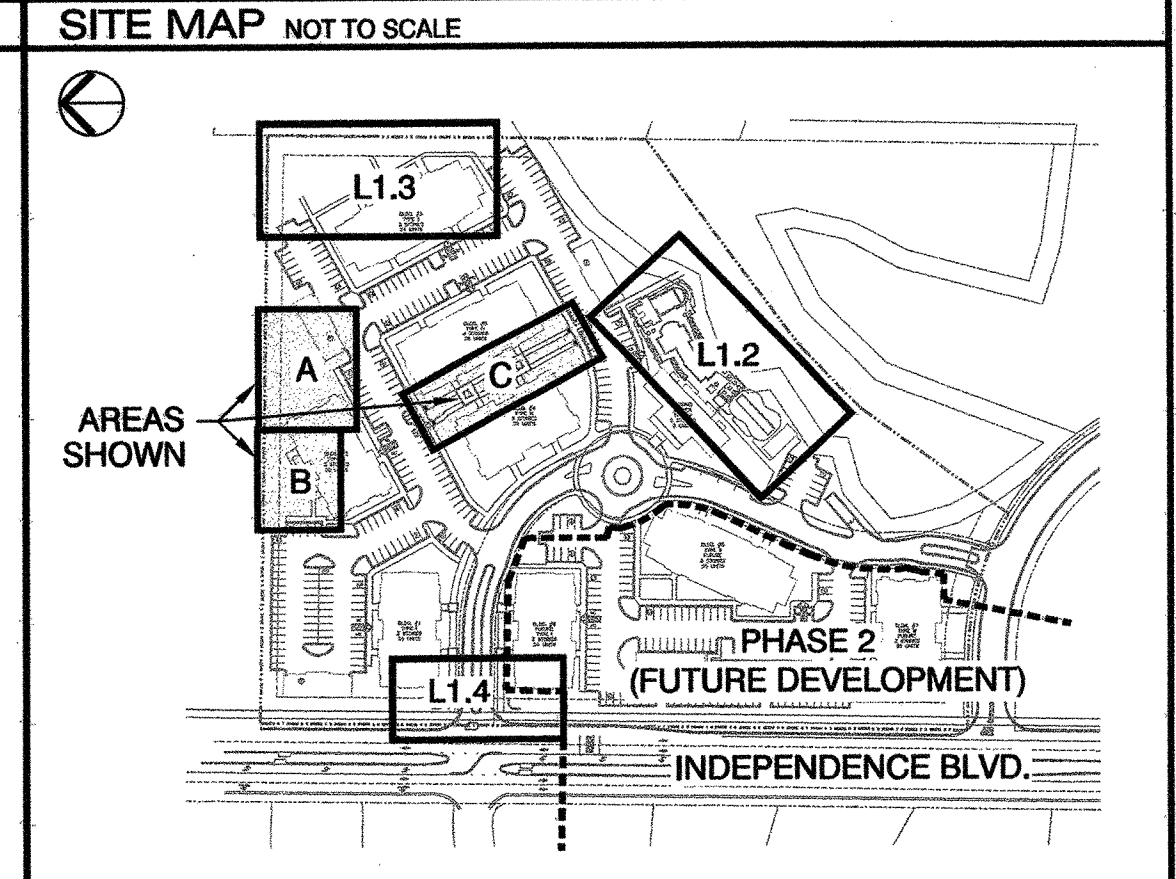
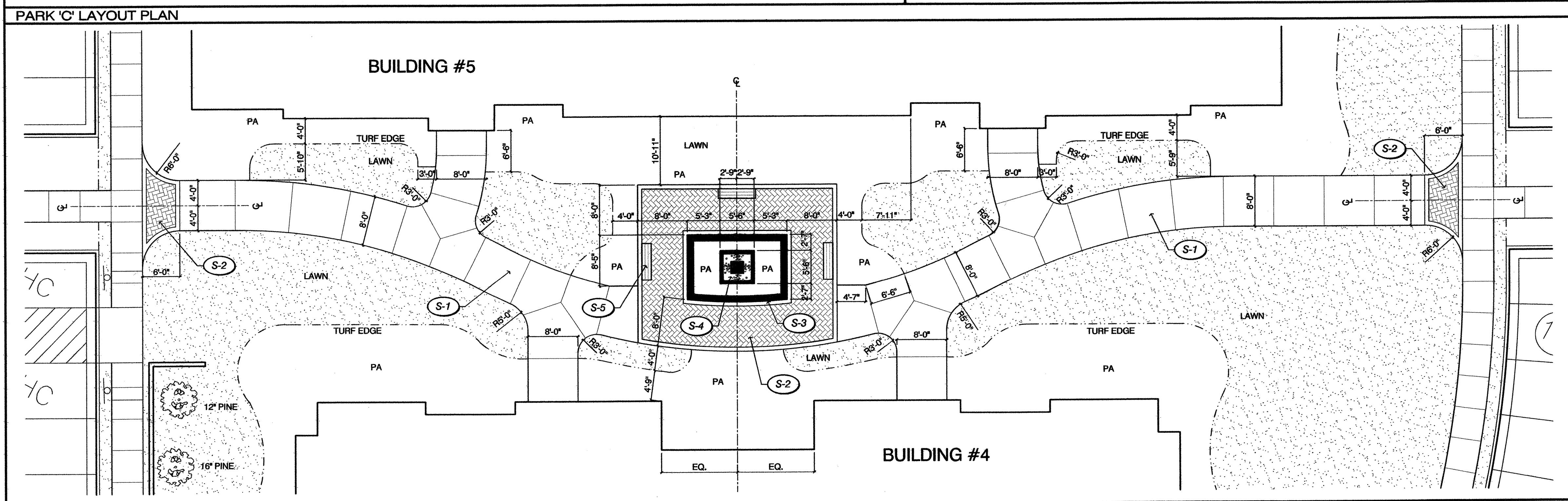
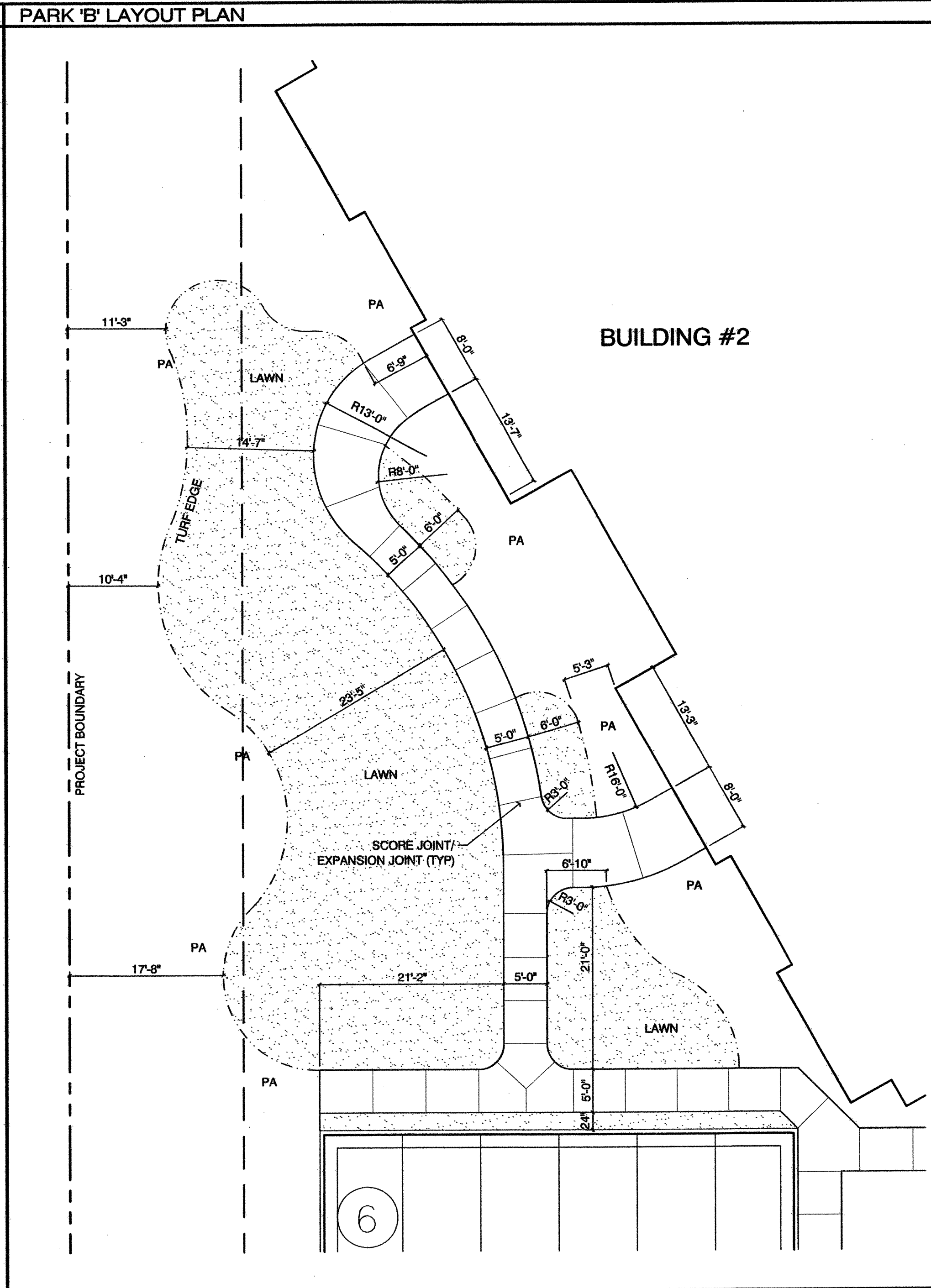
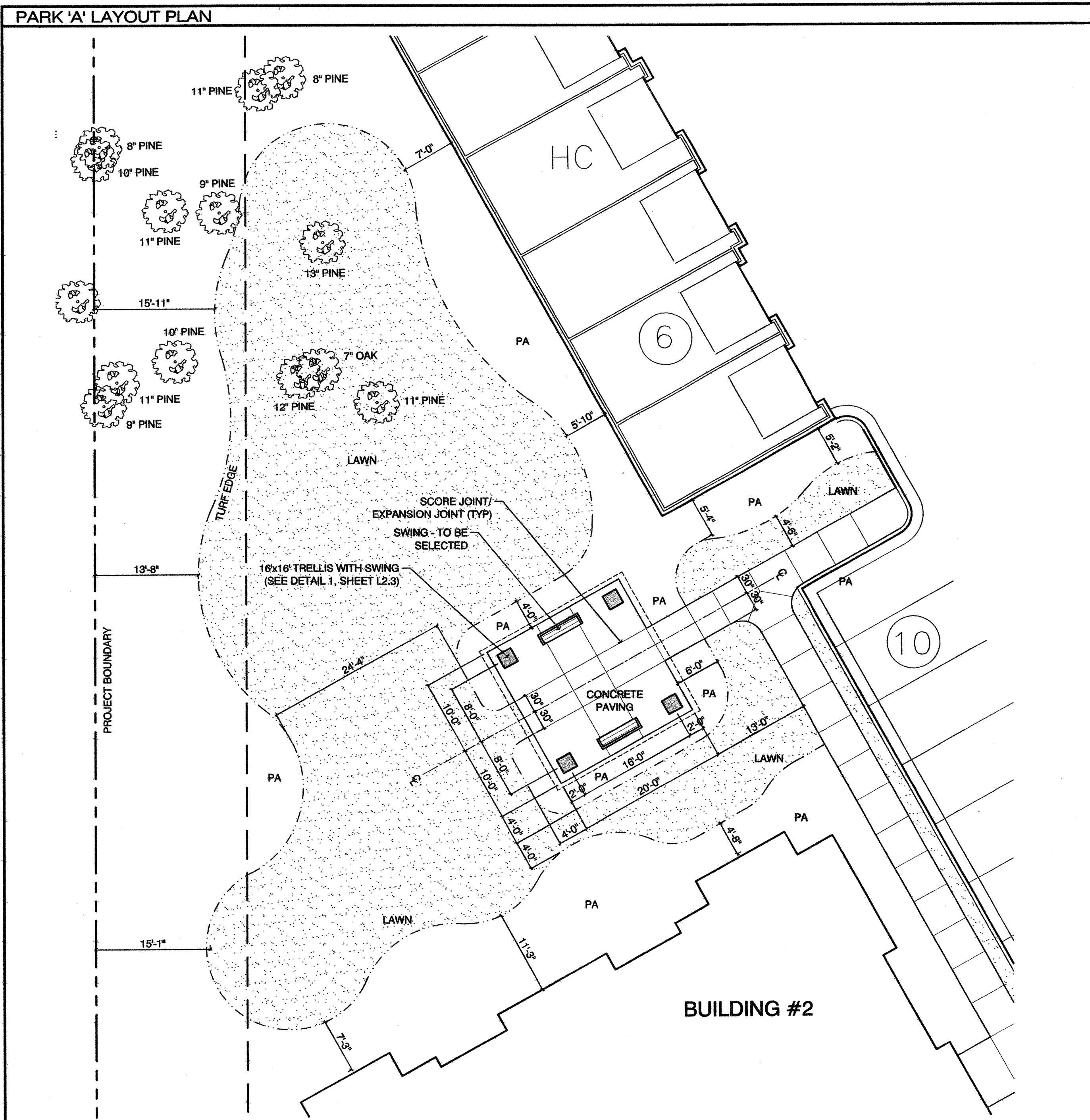


**1 DUMPSTER ENCLOSURE PLAN**  
 1/4" = 1'-0"

Project No: 2923  
 Issue Date: NOV. 30, 2012  
 Issued For: 60% PROGRESS SET  
 Issue Date: DEC. 31, 2012  
 Issued For: 90% PROGRESS SET  
 Issue Date: FEB. 18, 2013  
 Issued For: HUD/Permit Set

DUMPSTER ENCLOSURE PLAN & ELEVATIONS

**A8.4**



**SYMBOL LEGEND**

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
PA	PLANTING AREA	CL	CENTER LINE
BOC	BEGINNING OF CURVE	ALIGN	ALIGN
EJ	EXPANSION JOINT	S-1	CALL OUT

**FINISH SCHEDULE**

SYMBOL	DESCRIPTION	DETAIL	SHEET
S-1	CONCRETE SIDEWALK		
S-2	BRICK PAVING	2	L2.1
S-3	LOW PLANTER WALL	4	L2.1
S-4	FOUNTAIN - TO BE SELECTED		
S-5	BENCH - TO BE SELECTED		

EXISTING TREE TO BE PRESERVED  
 11" PINE

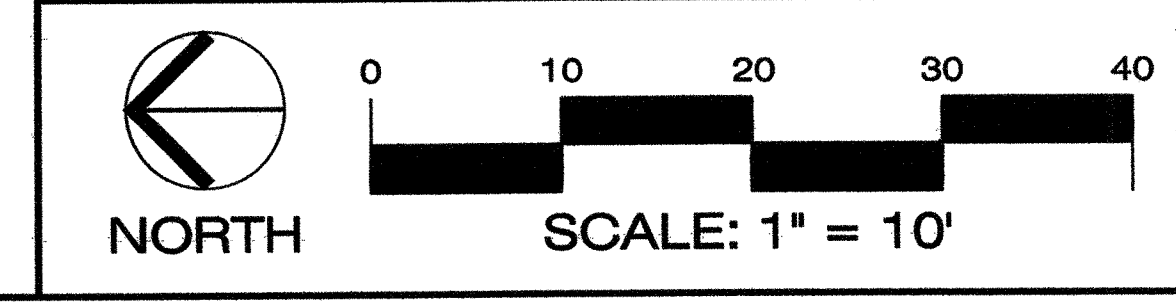
**Approved Const. Plan**

Planning Name: *Dawn M. [Signature]* Date: *6/25/2013*  
 Public Utilities: *[Signature]* Date: *6/27/13*  
 Traffic: *[Signature]* Date: *7/1/2013*  
 File: *[Signature]*

**STORMWATER MANAGEMENT PLAN**  
**APPROVED**  
 CITY OF WILMINGTON  
 ENGINEERING DEPARTMENT  
 DATE: *6/28/13* PERMIT # *2013620*  
 SIGNED: *[Signature]*

**GENERAL CONSTRUCTION NOTES**

- SCOPE OF WORK: THE GENERAL SCOPE OF WORK INCLUDES, BUT IS NOT LIMITED TO, ALL LABOR, EQUIPMENT, AND MATERIALS FOR THE CONSTRUCTION OF ALL EXTERNAL LANDSCAPE ARCHITECTURAL HARDSCAPE AND SOFTSCAPE ELEMENTS AS PER PLANS AND SPECIFICATIONS.
- THE CONTRACTOR SHALL VERIFY ALL FIELD DIMENSIONS, DISTANCES, AND CONDITIONS PRIOR TO STARTING WORK. ANY DISCREPANCIES SHALL BE PROMPTLY REPORTED TO THE LANDSCAPE ARCHITECT.
- ALL WORK SHALL COMPLY TO THE NATIONAL BUILDING CODE, LATEST EDITION, AS ADOPTED BY THE LOCAL MUNICIPALITY.
- THE CONTRACTOR SHALL OBSERVE AND COMPLY WITH ALL FEDERAL, STATE, AND LOCAL LAWS REQUIRED FOR THE PROTECTION OF PUBLIC HEALTH, SAFETY, AND ENVIRONMENTAL QUALITY.
- PLUS/ MINUS DIMENSIONS MAY BE GIVEN FOR IMPROVEMENTS THAT MAY VARY SLIGHTLY. ALL OTHER DIMENSIONS ARE EXACT. CONTRACTOR TO STAKE PROPOSED WORK PRIOR TO CONSTRUCTION FOR OWNER AND LANDSCAPE ARCHITECT TO REVIEW.
- ANY CONFLICTS BETWEEN THE VARIOUS ELEMENTS OF THE CONSTRUCTION DRAWING AND/OR SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT BEFORE PROCEEDING WITH WORK SO INVOLVED.
- WHEN APPLICABLE, THE CONTRACTOR SHALL REFER TO THE ARCHITECTURAL, ELECTRICAL, CIVIL AND MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION AND SHALL COORDINATE WITH ALL OTHER TRADES TO ENSURE INTEGRITY OF WORK.
- PAVING CONTRACTOR SHALL COORDINATE WITH DRAINAGE CONTRACTOR, IRRIGATION CONTRACTOR AND ELECTRICIAN TO ENSURE THAT ALL SLEEVES AND CROSSINGS ARE PROVIDED PRIOR TO PLACING OF PAVING, CONCRETE, ETC.
- CONTRACTOR SHALL VERIFY ALL UTILITY LOCATIONS PRIOR TO BEGINNING ANY WORK AND CONTACT LANDSCAPE ARCHITECT FOR AUTHORIZATION IF MODIFICATIONS ARE NECESSARY.
- VERIFY WITH THE PROJECT SOILS ENGINEER THE NEED FOR REINFORCING, BASE MATERIALS, PRESATURATION, ETC., FOR WALKS, PATIOS, FOOTINGS, ETC.
- EXPANSION JOINTS OCCUR AT BOTTOM OF STEPS, CHANGE IN DIRECTION OF CONCRETE WALKS, ADJACENT TO BUILDINGS AND WHERE NEW CONCRETE PAVING ADJUTS EXISTING SIDEWALKS AND/OR CURBS. THE RECOMMENDED SPACING AND EXPANSION JOINTS IN WALKS IS 16'-0" O.C. FOR CONTINUOUS WALKS UNLESS OTHERWISE RECOMMENDED BY SOILS ENGINEER.
- SCORE JOINTS OCCUR WHERE SHOWN ON PLAN AND AS NECESSARY TO MINIMIZE AND CONTROL CRACKING OF CONCRETE PAVING.



**MIHALY**  
 LAND DESIGN  
 PLANNING + LANDSCAPE ARCHITECTURE  
 330 Military Cutoff Rd. Suite A3  
 Wilmington, NC 28403 910.392.4355

*[Signature]*  
 JOHNS W. MIHALY

**Revisions**

- 06/11/13 - ADDED EXISTING TREES TO BE PRESERVED; ADJUSTED LAYOUT ACCORDINGLY.
- 06/18/13 - REVISED EXISTING TREE LABELS.

**CLIENT**  
**The Oleander Company, Inc.**  
 P.O. Box 3145  
 Wilmington, North Carolina  
 Phone: 910.392.3300

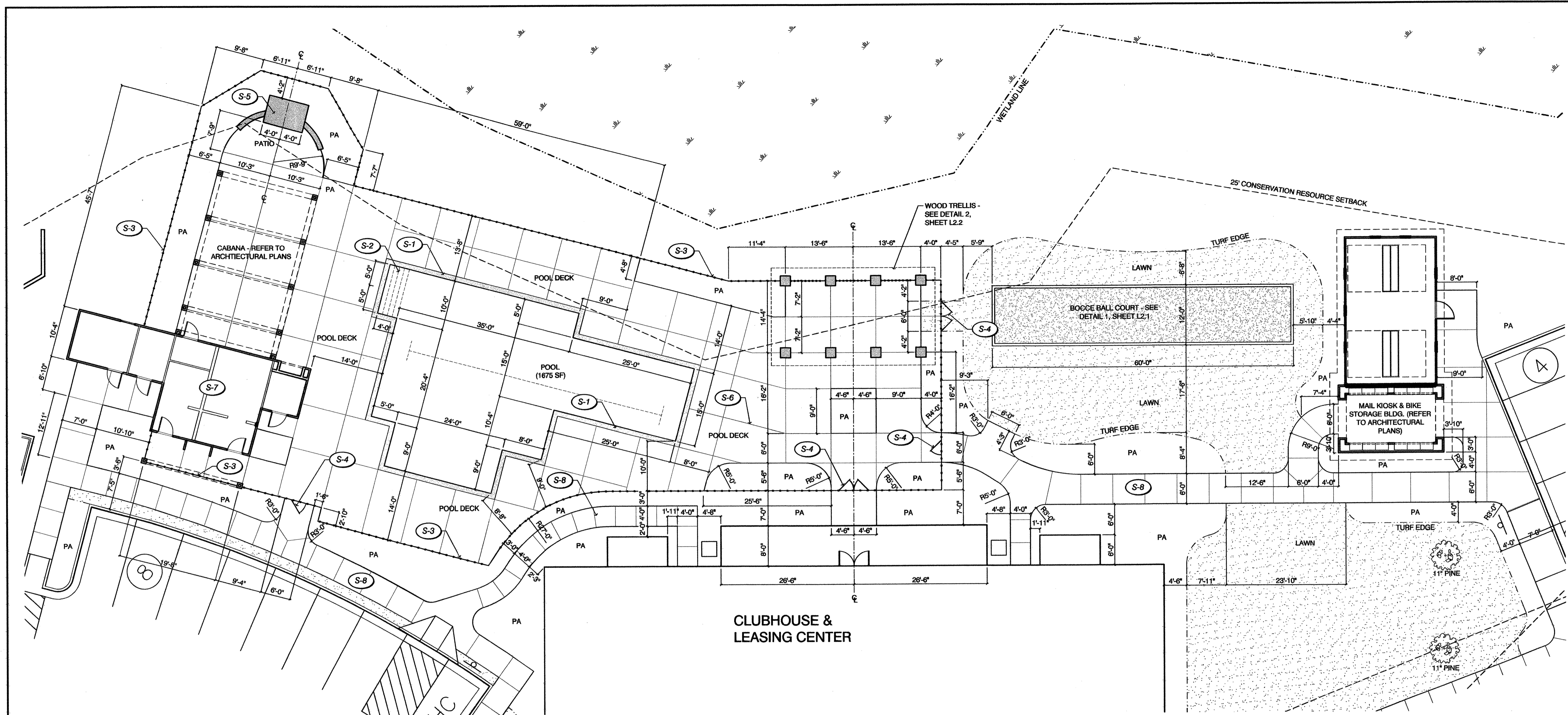
**PROJECT**  
**Tiburon Parc Apartment Homes**  
 Wilmington, North Carolina

Date: 05.21.2013  
 Phase: CD  
 Job Number: 530-01  
 Designed by: JWM  
 Drawn by: MWL  
 Checked by: JWM

Sheet Title:  
**CONSTRUCTION LAYOUT PLAN - PARKS A,B,C**

Sheet Number  
**L1.1**  
 of 10 sheets

H.U.D. / PERMIT SET



**FINISH SCHEDULE**

SYMBOL	DESCRIPTION	DETAIL SHEET
S-1	POOL COPING	7 L2.1
S-2	POOL STEPS	
S-3	ALUMINUM POOL FENCE	5 L2.1
S-4	ALUMINUM POOL GATE	6 L2.1
S-5	FIREPLACE	1 L2.2
S-6	SCORE JOINT / EXPANSION JOINT	
S-7	POOL HOUSE (REFER TO ARCHITECTURAL PLANS)	
S-8	CONCRETE SIDEWALK	

EXISTING TREE TO BE PRESERVED  
11" PINE

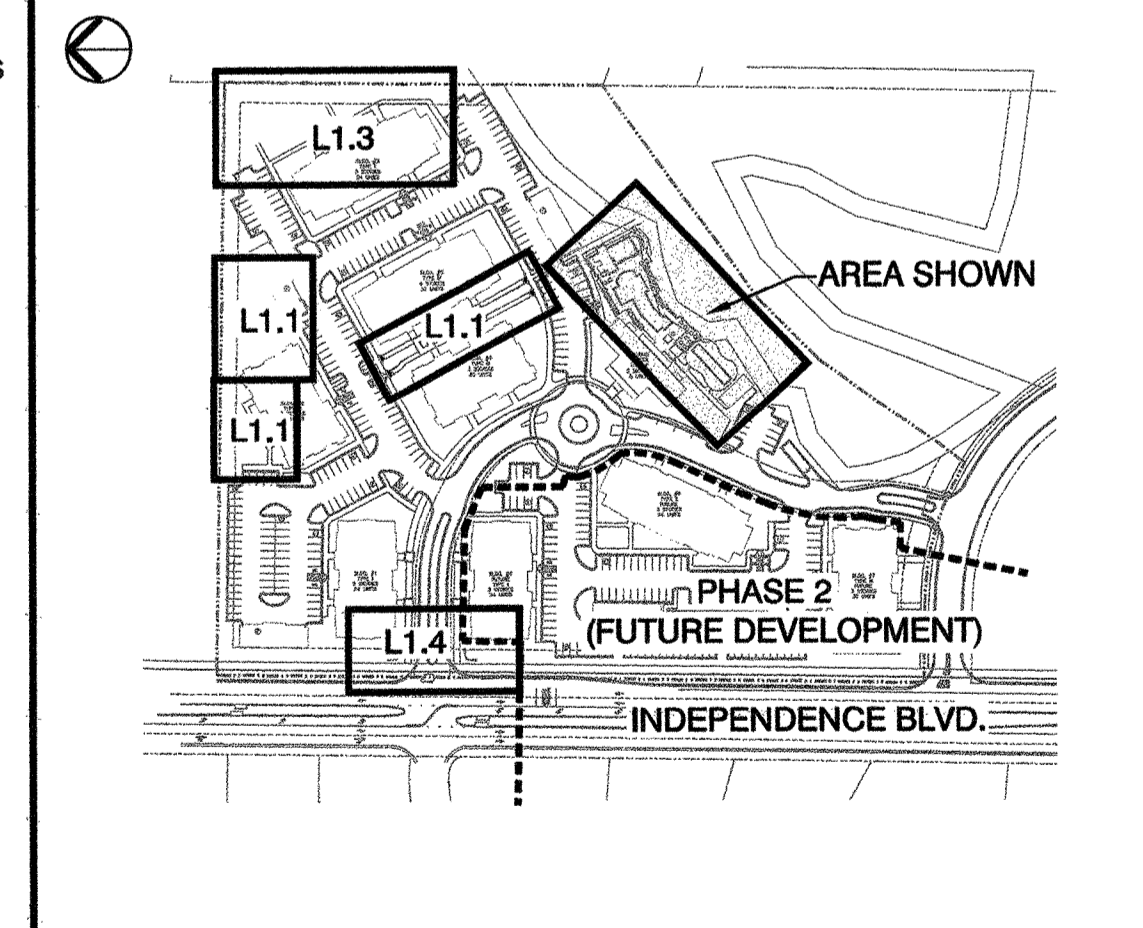
**STORMWATER MANAGEMENT PLAN**  
**APPROVED**  
CITY OF WILMINGTON  
ENGINEERING DEPARTMENT  
DATE 6/28/13 PERMIT # 2013020  
SIGNED *[Signature]*

**GENERAL CONSTRUCTION NOTES**

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- SCORE JOINTS OCCUR WHERE SHOWN ON PLAN AND AS NECESSARY TO MINIMIZE AND CONTROL CRACKING OF CONCRETE PAVING.

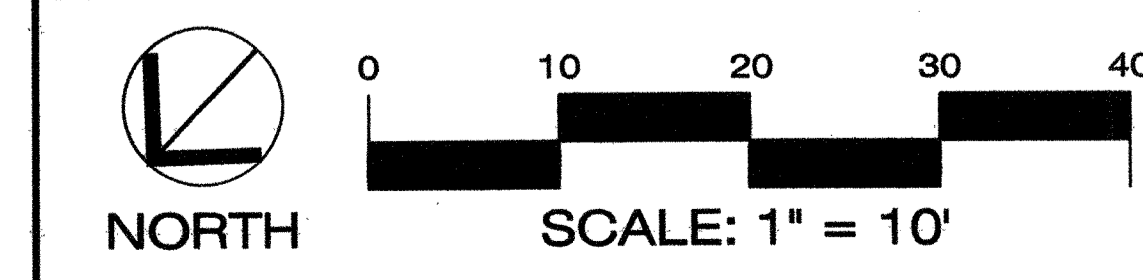
Approved Const. Plan  
Planning *[Signature]* Date 6/28/2013  
Public Utilities *[Signature]* 6/27/13  
Traffic *[Signature]* 7/1/2013  
Fire *[Signature]*

**SITE MAP NOT TO SCALE**



**SYMBOL LEGEND**

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
PA	PLANTING AREA	℄	CENTER LINE
BOC	BEGINNING OF CURVE	↪	ALIGN
EJ	EXPANSION JOINT	⊖	CALL OUT



**MIHALY**  
LAND DESIGN  
PLANNING + LANDSCAPE ARCHITECTURE  
330 Military Cutoff Rd. Suite A3  
Wilmington, NC 28403 910.392.4355

**Revisions**  
1. 06/11/13 - ADDED EXISTING TREES TO BE PRESERVED; ADJUSTED LAYOUT ACCORDINGLY

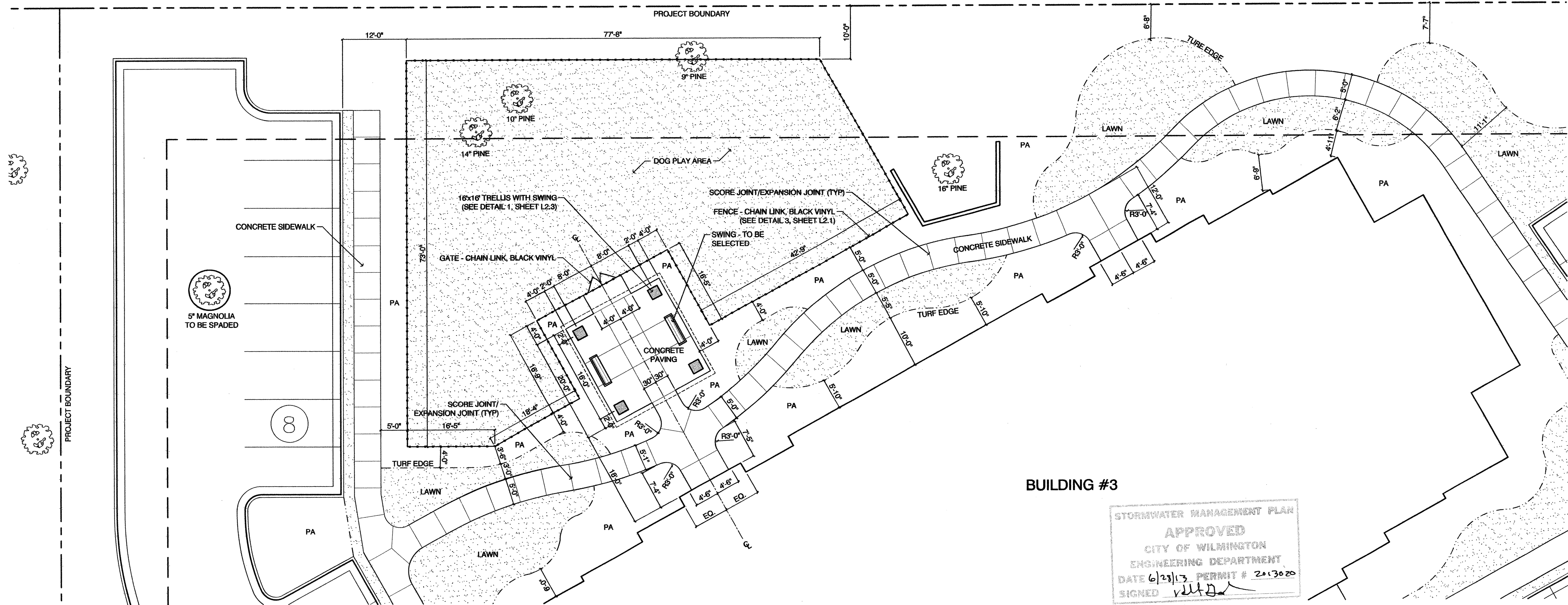
**CLIENT**  
**The Oleander Company, Inc.**  
P.O. Box 3145  
Wilmington, North Carolina  
Phone: 910.392.3300

**PROJECT**  
**Tiburon Parc Apartment Homes**  
Wilmington, North Carolina

Date: 05.21.2013  
Phase: CD  
Job Number: 530-01  
Designed by: JWM  
Drawn by: MWL  
Checked by: JWM  
Sheet Title: CONSTRUCTION LAYOUT PLAN - AMENITY AREA  
Sheet Number  
**L1.2**  
of 10 sheets

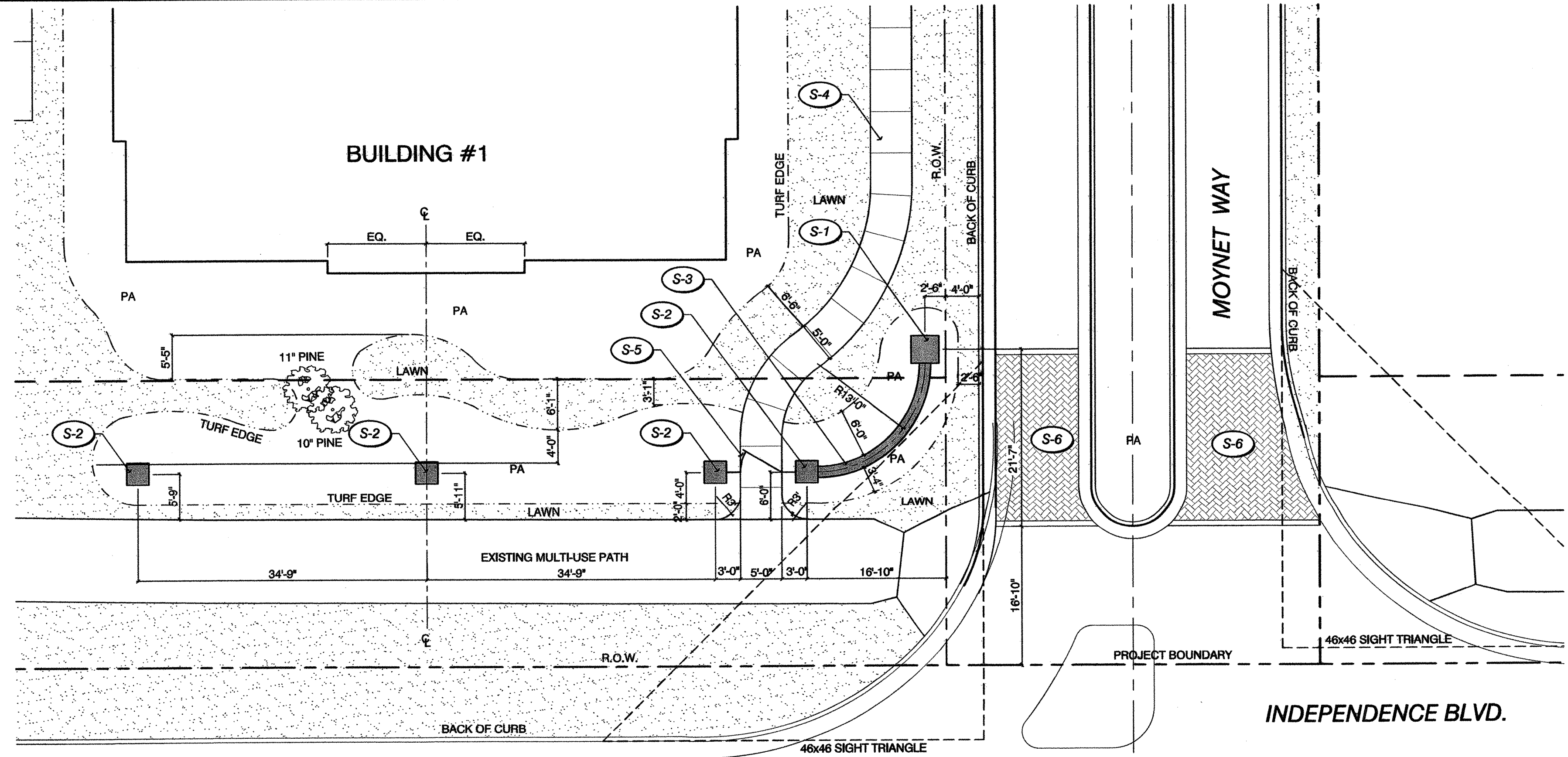
H.U.D. / PERMIT SET

CONSTRUCTION LAYOUT PLAN - DOG PARK



STORMWATER MANAGEMENT PLAN  
 APPROVED  
 CITY OF WILMINGTON  
 ENGINEERING DEPARTMENT  
 DATE 6/23/13 PERMIT # 2013020  
 SIGNED [Signature]

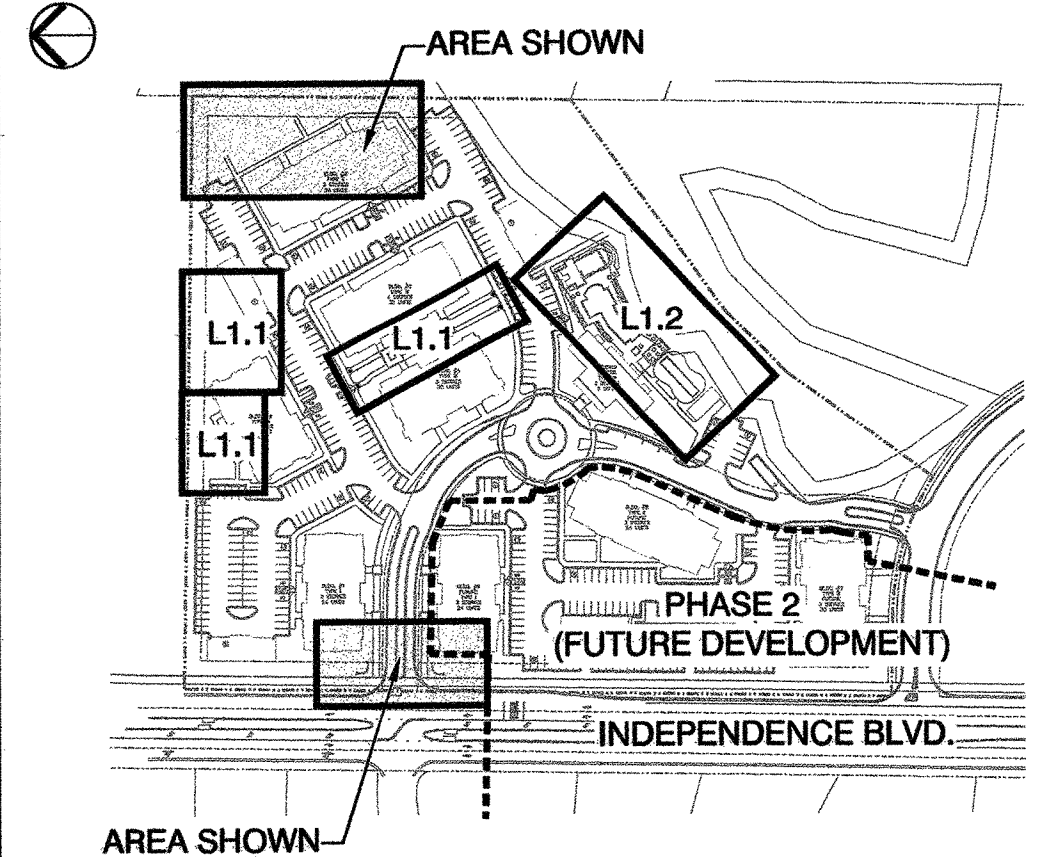
CONSTRUCTION LAYOUT PLAN - MAIN ENTRY



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- THE CONTRACTOR SHALL VERIFY ALL FIELD DIMENSIONS, DISTANCES, AND CONDITIONS PRIOR TO STARTING WORK. ANY DISCREPANCIES SHALL BE PROMPTLY REPORTED TO THE LANDSCAPE ARCHITECT.
- ALL WORK SHALL COMPLY TO THE NATIONAL BUILDING CODE, LATEST EDITION, AS ADOPTED BY THE LOCAL MUNICIPALITY.
- THE CONTRACTOR SHALL OBSERVE AND COMPLY WITH ALL FEDERAL, STATE, AND LOCAL LAWS REQUIRED FOR THE PROTECTION OF PUBLIC HEALTH, SAFETY, AND ENVIRONMENTAL QUALITY.
- PLUS/ MINUS DIMENSIONS MAY BE GIVEN FOR IMPROVEMENTS THAT MAY VARY SLIGHTLY. ALL OTHER DIMENSIONS ARE EXACT. CONTRACTOR TO STAKE PROPOSED WORK PRIOR TO CONSTRUCTION FOR OWNER AND LANDSCAPE ARCHITECT TO REVIEW.
- ANY CONFLICTS BETWEEN THE VARIOUS ELEMENTS OF THE CONSTRUCTION DRAWING AND/OR SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT BEFORE PROCEEDING WITH WORK SO INVOLVED.
- WHEN APPLICABLE, THE CONTRACTOR SHALL REFER TO THE ARCHITECTURAL, ELECTRICAL, CIVIL AND MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION AND SHALL COORDINATE WITH ALL OTHER TRADES TO ENSURE INTEGRITY OF WORK.
- PAVING CONTRACTOR SHALL COORDINATE WITH DRAINAGE CONTRACTOR, IRRIGATION CONTRACTOR AND ELECTRICIAN TO ENSURE THAT ALL SLEEVES AND CROSSINGS ARE PROVIDED PRIOR TO PLACING OF PAVING, CONCRETE, ETC.
- CONTRACTOR SHALL VERIFY ALL UTILITY LOCATIONS PRIOR TO BEGINNING ANY WORK AND CONTACT LANDSCAPE ARCHITECT FOR AUTHORIZATION IF MODIFICATIONS ARE NECESSARY.
- VERIFY WITH THE PROJECT SOILS ENGINEER THE NEED FOR REINFORCING, BASE MATERIALS, PREGRATATION, ETC. FOR WALKS, PATIOS, FOOTINGS, ETC.
- EXPANSION JOINTS OCCUR AT BOTTOM OF STEPS, CHANGE IN DIRECTION OF CONCRETE WALKS, ADJACENT TO BUILDINGS AND WHERE NEW CONCRETE PAVING ABUTS EXISTING SIDEWALKS AND/OR CURBS. THE RECOMMENDED SPACING FOR EXPANSION JOINTS IN WALKS IS 18'-0" O.C. FOR CONTINUOUS WALKS UNLESS OTHERWISE RECOMMENDED BY SOILS ENGINEER.
- SCORE JOINTS OCCUR WHERE SHOWN ON PLAN AND AS NECESSARY TO MINIMIZE AND CONTROL CRACKING OF CONCRETE PAVING.

SITE MAP NOT TO SCALE



FINISH SCHEDULE

SYMBOL	DESCRIPTION	DETAIL	SHEET
S-1	12" BRICK PILASTER WITH PRE-CAST CAP	1	L2.4
S-2	8" BRICK PILASTER WITH PRE-CAST CAP	2	L2.4
S-3	ENTRY WALL WITH SIGN	3	L2.4
S-4	CONCRETE SIDEWALK		
S-5	IRON ENTRY GATE		
S-6	BRICK PAVING	2	L2.1

SYMBOL LEGEND

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
PA	PLANTING AREA	CL	CENTER LINE
BOC	BEGINNING OF CURVE	ALIGN	ALIGN
EJ	EXPANSION JOINT	S-1	CALL OUT

11" PINE

Approved Const. Plan

Planning: Dawn M. [Signature] 6/23/13  
 Public Utilities: [Signature] 6/27/13  
 Traffic: [Signature] 7/1/13  
 Fire: [Signature]

NORTH

0 10 20 30 40

SCALE: 1" = 10'

MIHALY  
 LAND DESIGN  
 PLANNING + LANDSCAPE ARCHITECTURE  
 330 Military Cutoff Rd., Suite A3  
 Wilmington, NC 28403 910.392.4355

- Revisions
- 06/11/13 - ADDED EXISTING TREES TO BE PRESERVED; ADJUSTED LAYOUT ACCORDINGLY.
  - 06/18/13 - REVISED EXISTING CURB AND LABELS; UPDATED EXISTING CURB AND MULTI-USE PATH AND DIMENSIONS ACCORDINGLY; ADDED SIGHT TRIANGLES.

CLIENT  
**The Oleander Company, Inc.**  
 P.O. Box 3145  
 Wilmington, North Carolina  
 Phone: 910.392.3300

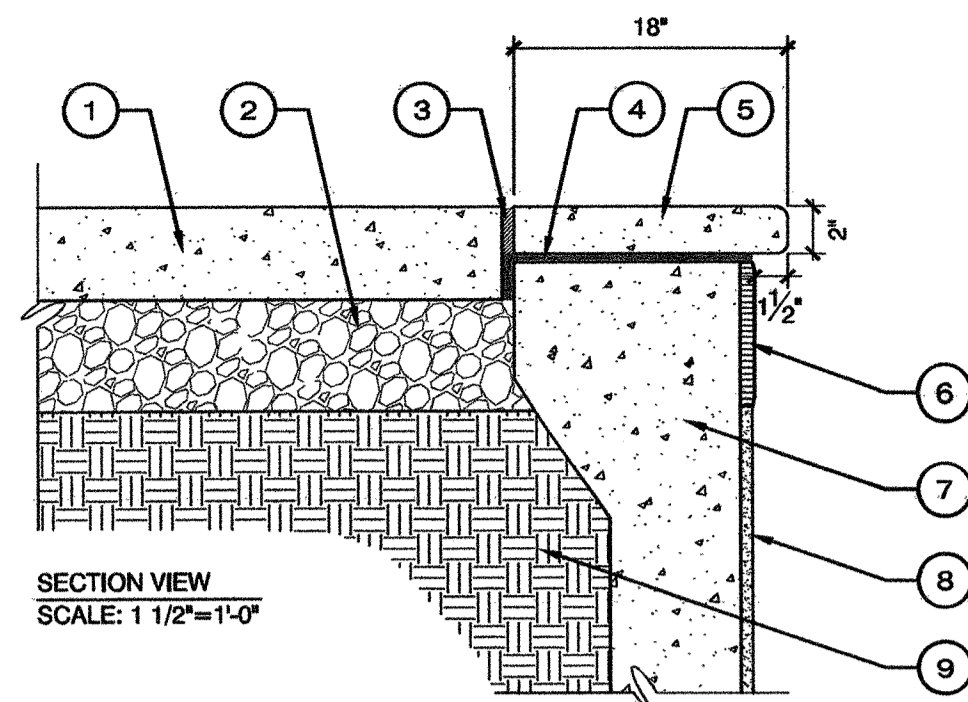
PROJECT  
**Tiburon Parc Apartment Homes**  
 Wilmington, North Carolina

Date: 05.21.2013  
 Phase: CD  
 Job Number: 530-01  
 Designed by: JWM  
 Drawn by: MWL  
 Checked by: JWM

Sheet Title:  
 CONSTRUCTION  
 LAYOUT PLAN -  
 DOG PARK AND  
 MAIN ENTRY

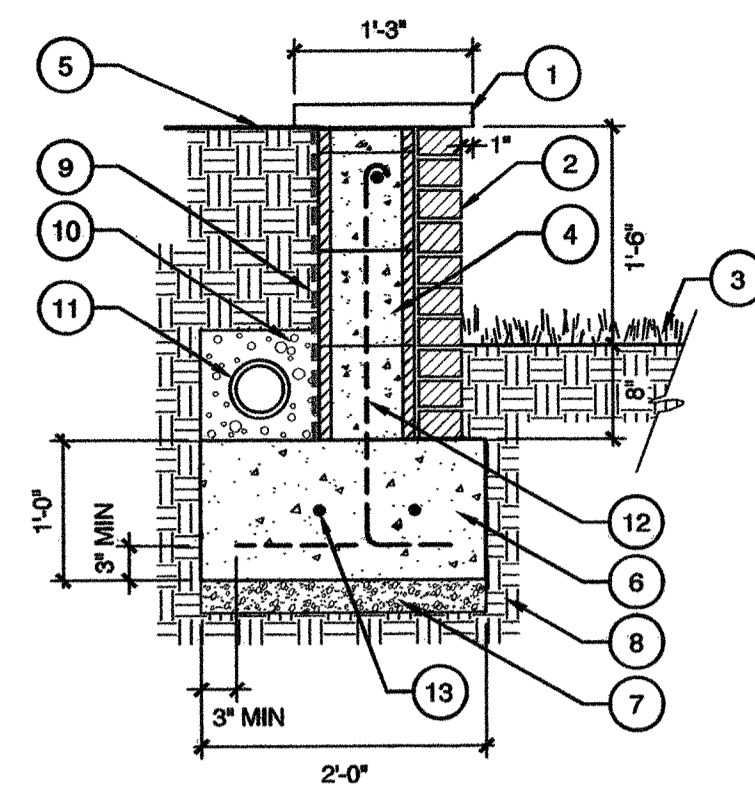
Sheet Number  
**L1.3**  
 of 10 sheets

H.U.D. / PERMIT SET



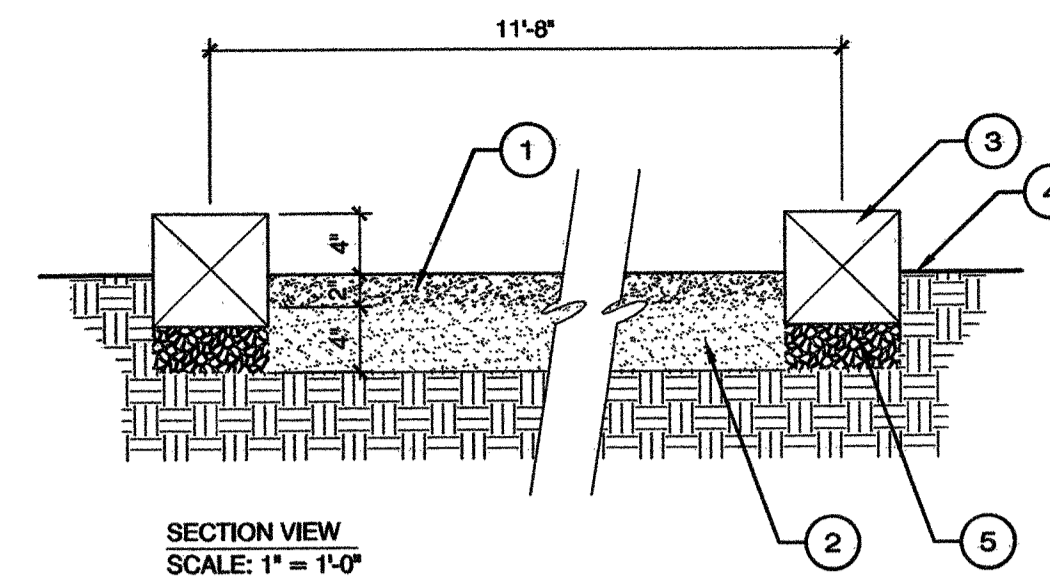
**LEGEND**

1. ADJACENT CONCRETE PAVING
  2. AGGREGATE SUB-BASE - REFER TO SOILS REPORT FOR DEPTH REQUIREMENTS
  3. EXPANSION JOINT
  4. BOND BREAKER ABOVE AND BEHIND BOND BEAM
  5. POURED-IN-PLACE CONCRETE COPING COLOR: TO BE SELECTED FINISH: SELECTED
  6. WATERLINE TILE TILE: TO BE SELECTED AVAILABLE FROM: TO BE SELECTED
  7. BOND BEAM - REFER TO POOL CONTRACTOR'S SHOP DRAWINGS
  8. PLASTER FINISH COLOR: TO BE SELECTED FINISH: SMOOTH
  9. COMPACTED SUBGRADE - REFER TO STRUCTURAL ENGINEER'S DRAWING FOR REQUIREMENTS
- NOTE:**  
 • DETAIL IS CONCEPTUAL ONLY. POOL CONTRACTOR SHALL SUBMIT COMPLETE STRUCTURAL AND MECHANICAL DRAWINGS TO CONFORM TO LOCAL CODES.



**LEGEND**

1. PRECAST CONCRETE CAP
2. BRICK VENEER
3. ADJACENT TURF
4. 8" CMU - GROUT CELLS SOLID W/ REINFORCEMENT
5. FINISH GRADE
6. CONCRETE FOOTING
7. AGGREGATE SUB-BASE
8. COMPACTED SUBGRADE
9. WATERPROOF MEMBRANE
10. DRAIN ROCK WRAPPED IN FILTER FABRIC
11. 4" DIAMETER PERFORATED PVC DRAIN LINE
12. #4 VERTICAL REBAR @ 48" O.C. - ALTERNATE BENDS IN FOOTING
13. #4 HORIZONTAL REBAR



**LEGEND**

1. 2" DEEP COMPACTED OYSTER SHELL PLAYING SURFACE
2. 4" DEEP COMPACTED SAND
3. PRESSURE TREATED 8x8
4. FINISH GRADE
5. COMPACTED ABC STONE BASE

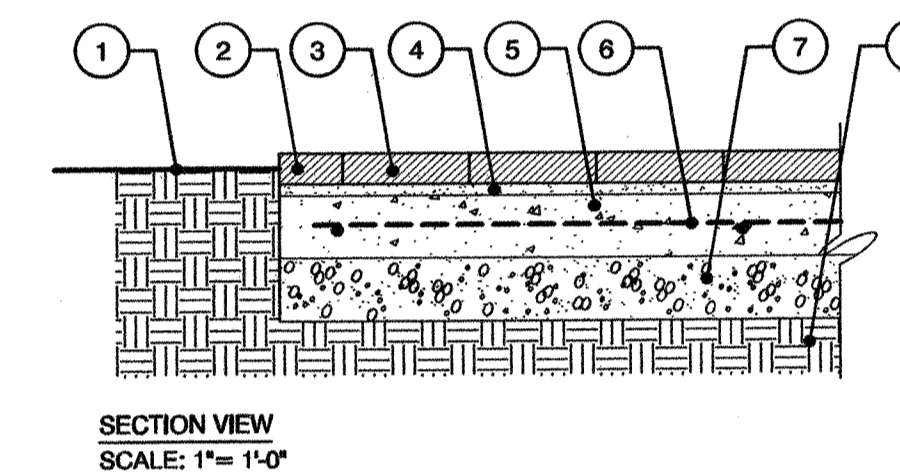
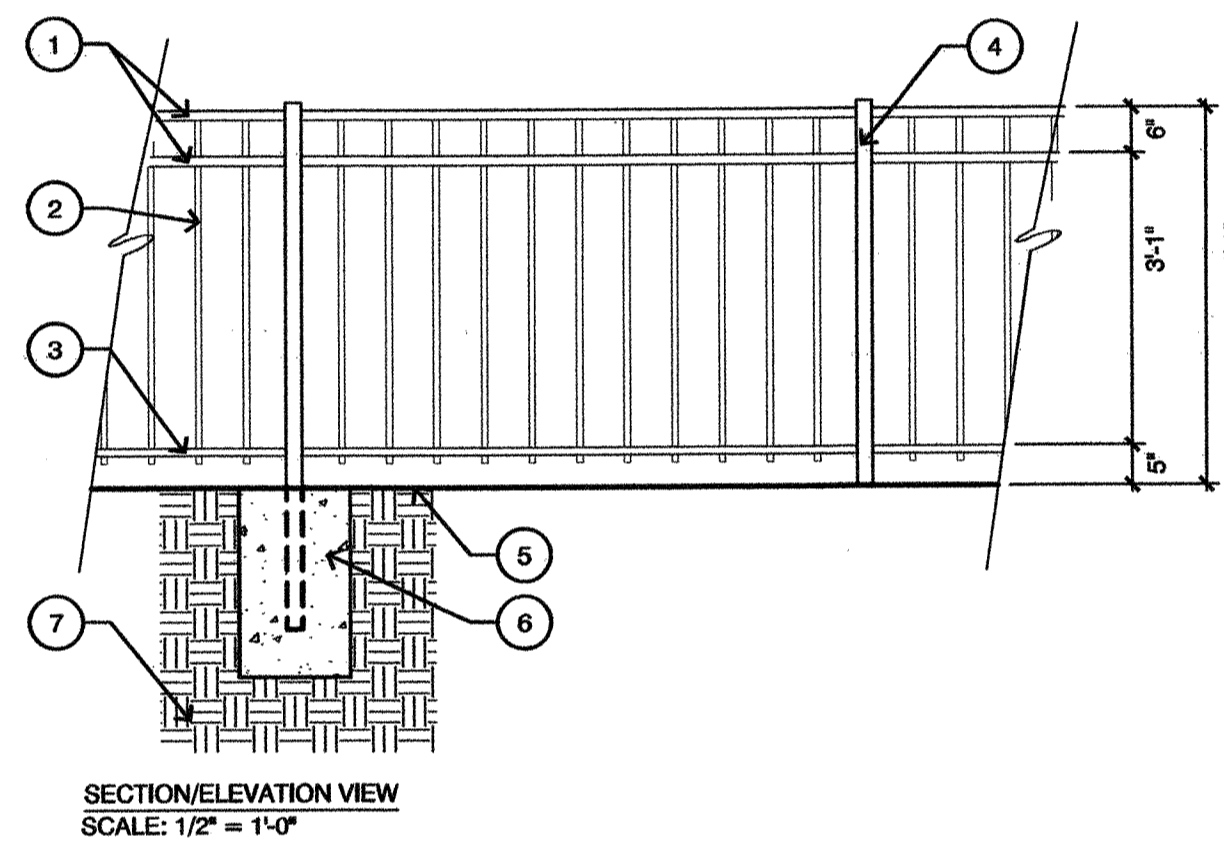
**7 POOL COPING**

**4 PLANTER RETAINING WALL**

**1 BOCCE BALL COURT**

**LEGEND**

1. 2" x 2" TOP RAILS
  2. 3/4" x 3/4" PICKETS
  3. 1" x 1" BOTTOM RAIL
  4. 2" x 2" POST
  5. FINISH GRADE
  6. CONCRETE FOOTING
  7. COMPACTED SUBGRADE
- NOTE:**  
 • PRIME AND PAINT (2) COATS COLOR: BLACK  
 • FENCE MODEL: COMMERCIAL ASCOT 48" AVAILABLE FROM: ALUMI-GUARD (877.258.6448)



**LEGEND**

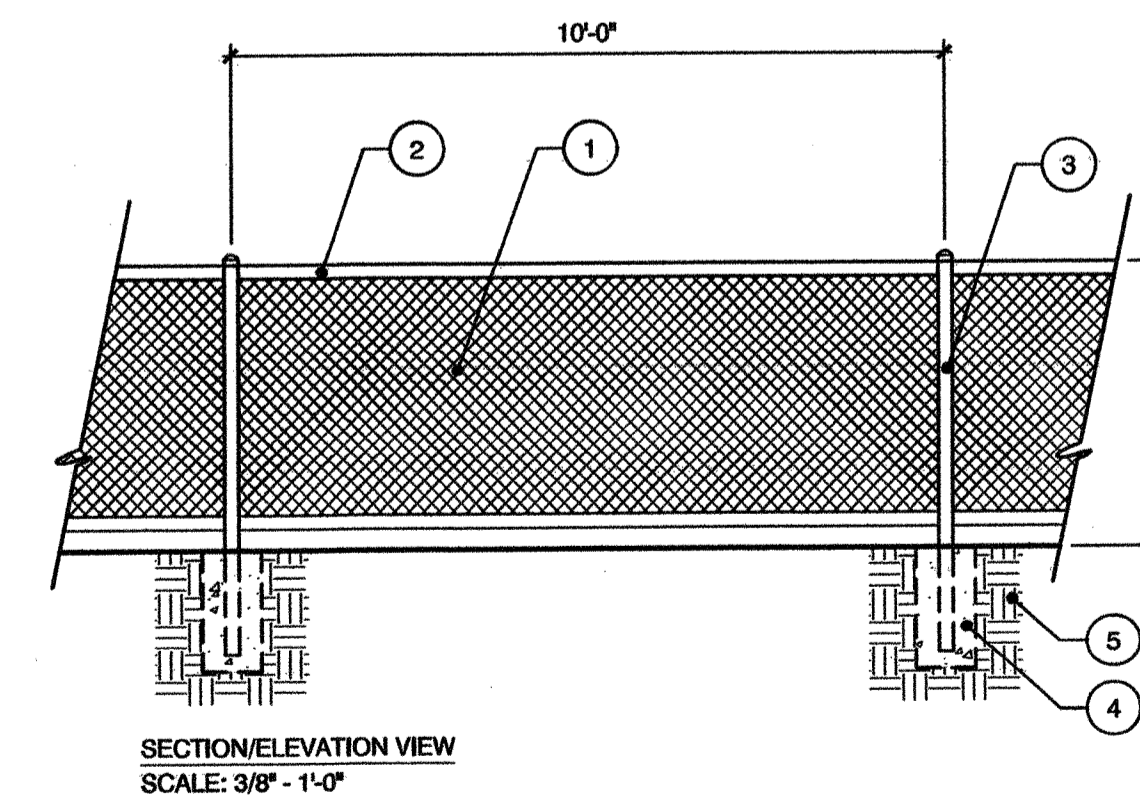
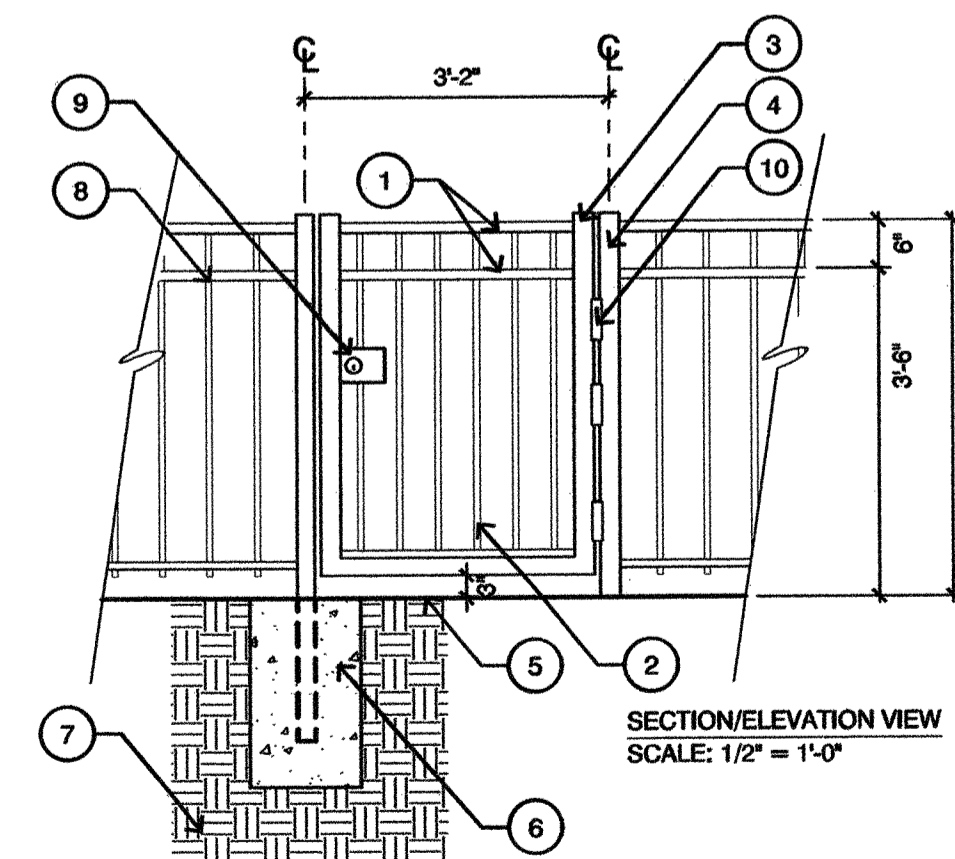
1. ADJACENT FINISH GRADE
2. BRICK BAND AT EDGE - REFER TO CONSTRUCTION LAYOUT PLAN FOR LAYOUT
3. BRICK FIELD - REFER TO CONSTRUCTION LAYOUT PLAN FOR PATTERN
4. MORTAR SETTING BEND
5. 4" MINIMUM CONCRETE SLAB
6. STEEL REINFORCEMENT - REFER TO SOILS REPORT
7. AGGREGATE SUB-BASE MATERIAL
8. COMPACTED SUBGRADE

**5 ALUMINUM POOL FENCE**

**2 BRICK PAVERS WITH BRICK BAND**

**LEGEND**

1. 1" x 1" TOP RAILS
  2. 3/4" x 3/4" PICKETS
  3. 2" x 2" FRAME
  4. 2" x 2" POST
  5. FINISH GRADE
  6. CONCRETE FOOTING
  7. COMPACTED SUBGRADE
  8. ADJACENT FENCING - REFER TO DETAIL 5, THIS SHEET
  9. GATE LATCH WITH KEYED ENTRY - INSTALL PER MANUFACTURER'S SPECIFICATIONS AND PER LOCAL HEALTH DEPARTMENT CODE
  10. HEAVY-DUTY SELF CLOSING LATCHES
- NOTE:**  
 • PRIME AND PAINT (2) COATS COLOR: BLACK  
 • FENCE MODEL: COMMERCIAL ASCOT 48" AVAILABLE FROM: ALUMI-GUARD (877.258.6448)



**LEGEND**

1. 1 3/4" MESH GALVANIZED ALUMINUM CHAIN LINK FENCE WITH BLACK VINYL COATING
2. 1 5/8" GALVANIZED ALUMINUM RAIL
3. 2 3/8" GALVANIZED ALUMINUM POST
4. CONCRETE FOOTING
5. COMPACTED SUBGRADE

**STORMWATER MANAGEMENT PLAN**  
**APPROVED**  
 CITY OF WILMINGTON  
 ENGINEERING DEPARTMENT  
 DATE 6/25/13 PERMIT # 2513620  
 SIGNED [Signature]

Approved Const. Plan  
 Planning: Dawn M. Anthony 6/25/13  
 Public Utilities: [Signature] 6/27/13  
 Date: 7/1/13

**6 ALUMINUM POOL GATE**

**3 CHAIN LINK FENCE AT DOG PARK**



Revisions

**CLIENT**  
 The Oleander Company, Inc.  
 P.O. Box 3145  
 Wilmington, North Carolina  
 Phone: 910.392.3300

**PROJECT**  
 Tiburon Parc Apartment Homes  
 Wilmington, North Carolina

Date: 05.21.2013  
 Phase: CD  
 Job Number: 530-01  
 Designed by: JWM  
 Drawn by: MWL  
 Checked by: JWM

Sheet Title: Details - Landscape  
 Sheet Number  
**L2.1**  
 of 10 sheets

H.U.D. / PERMIT SET



Revisions

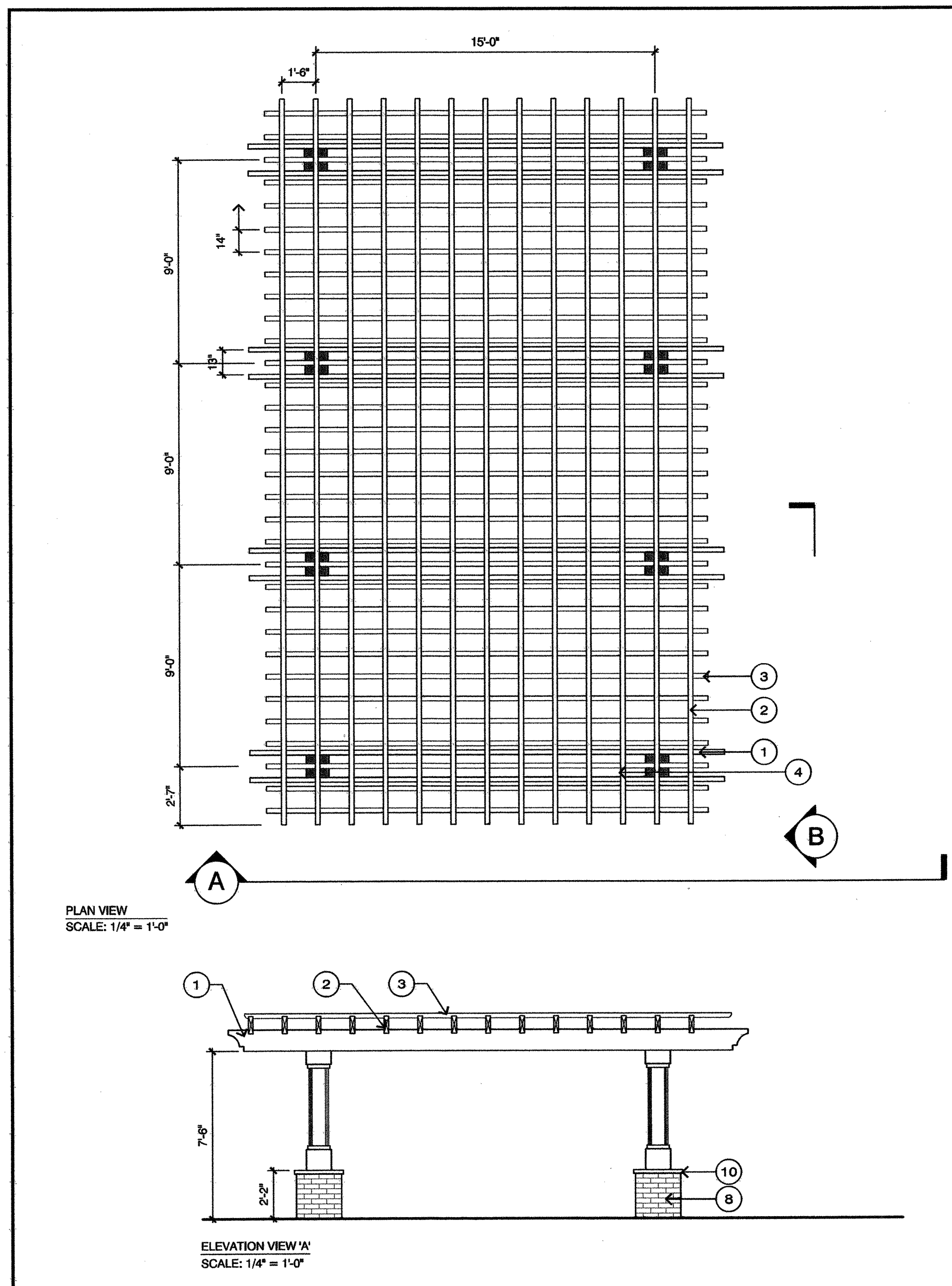
**CLIENT**  
**The Oleander Company, Inc.**  
P.O. Box 3145  
Wilmington, North Carolina  
Phone: 910.392.3300

**PROJECT**  
**Tiburon Parc Apartment Homes**  
Wilmington, North Carolina

Date: 05.21.2013  
Phase: CD  
Job Number: 530-01  
Designed by: JWM  
Drawn by: MWL  
Checked by: JWM  
Sheet Title: Details - Landscape

Sheet Number  
**L2.2**  
of 10 sheets

H.U.D. / PERMIT SET

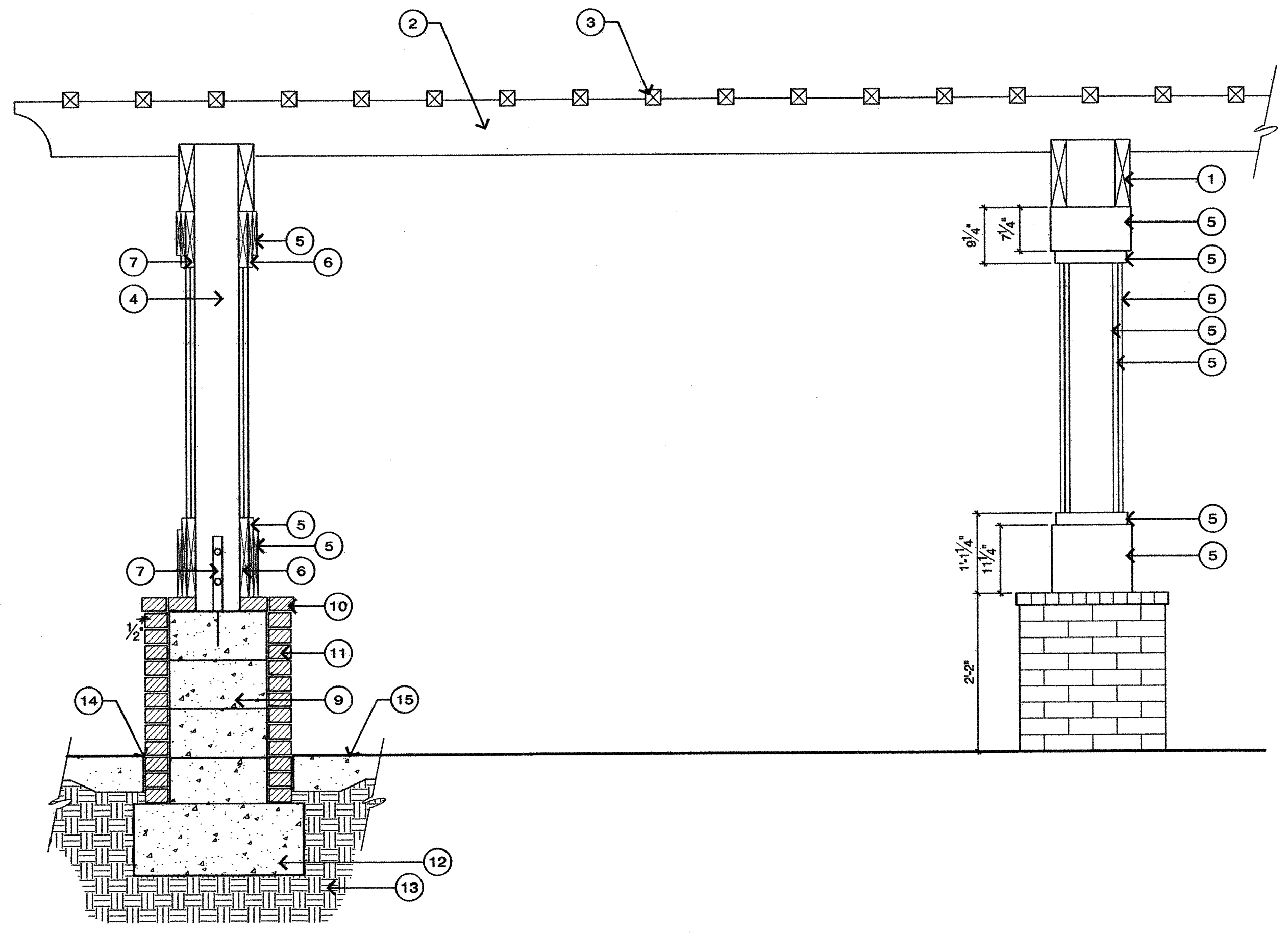


**LEGEND**

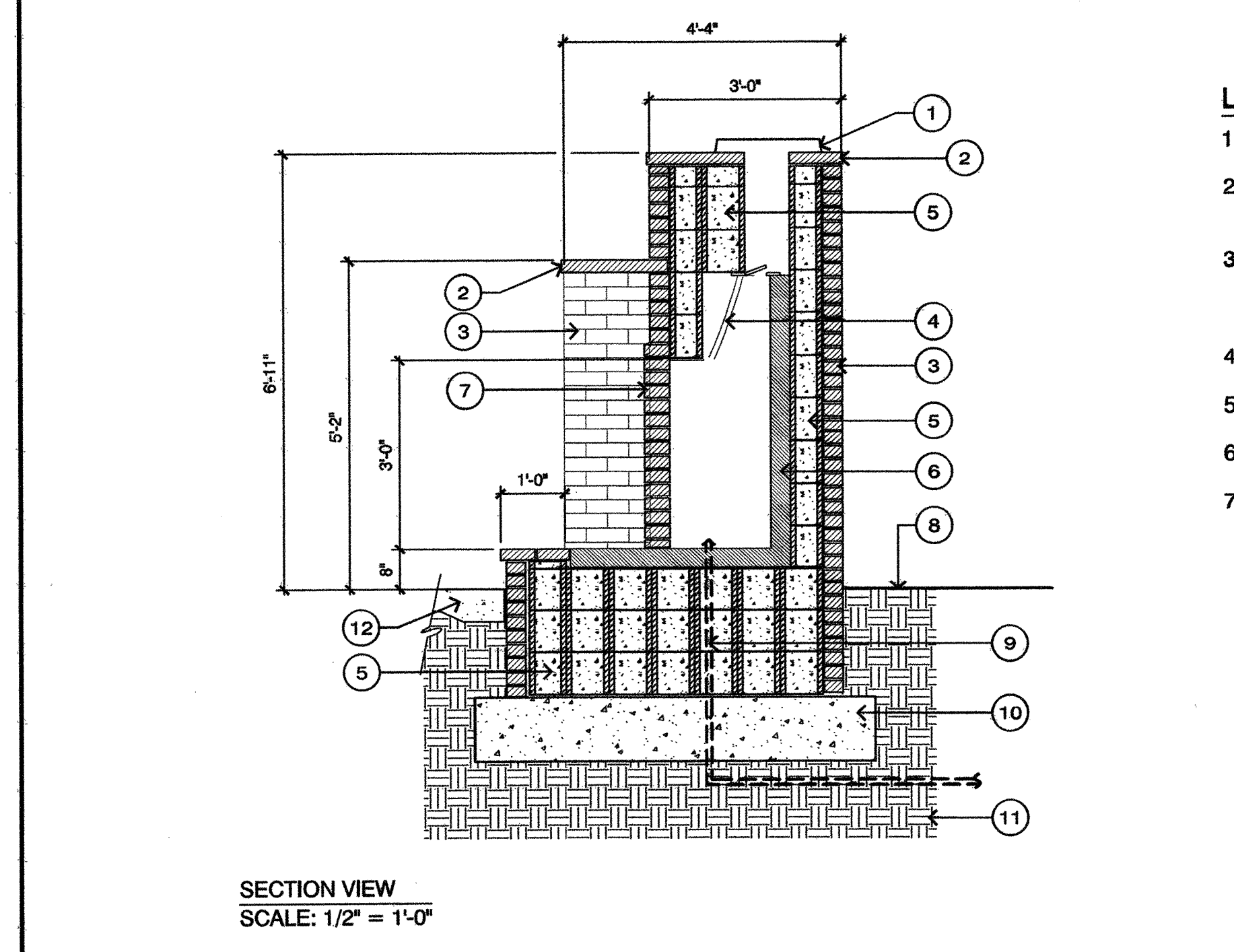
1. 3x12 GRAB BEAM
2. 3x10 JOIST
3. 3x3 LATTICE
4. 8x8 POST
5. 1x PLANT-ON
6. 2x PLANT-ON
7. SIMPSON POST BASE CONNECTION
8. BRICK BASE
9. CMU TO FIT
10. BRICK CAP - HEADER
11. BRICK VENEER - RUNNING BOND
12. CONCRETE FOOTING
13. COMPACTED SUBGRADE
14. EXPANSION JOINT
15. FINISH GRADE

**NOTES:**

- REFER TO STRUCTURAL ENGINEER'S DETAIL FOR ALL INFORMATION PERTAINING TO CONNECTIONS, FOOTING AND REINFORCEMENT
- ALL LUMBER SHALL BE KILN DRIED PRESSURE TREATED
- PAINT ALL LUMBER WITH (1) COAT MOISTURE PROOF PRIMER AND (2) FINISH COATS
- ALL CONNECTORS, FASTENERS AND OTHER HARDWARE SHALL BE HOT DIPPED GALVANIZED



**2 WOOD TRELLIS AT AMENITY AREA**

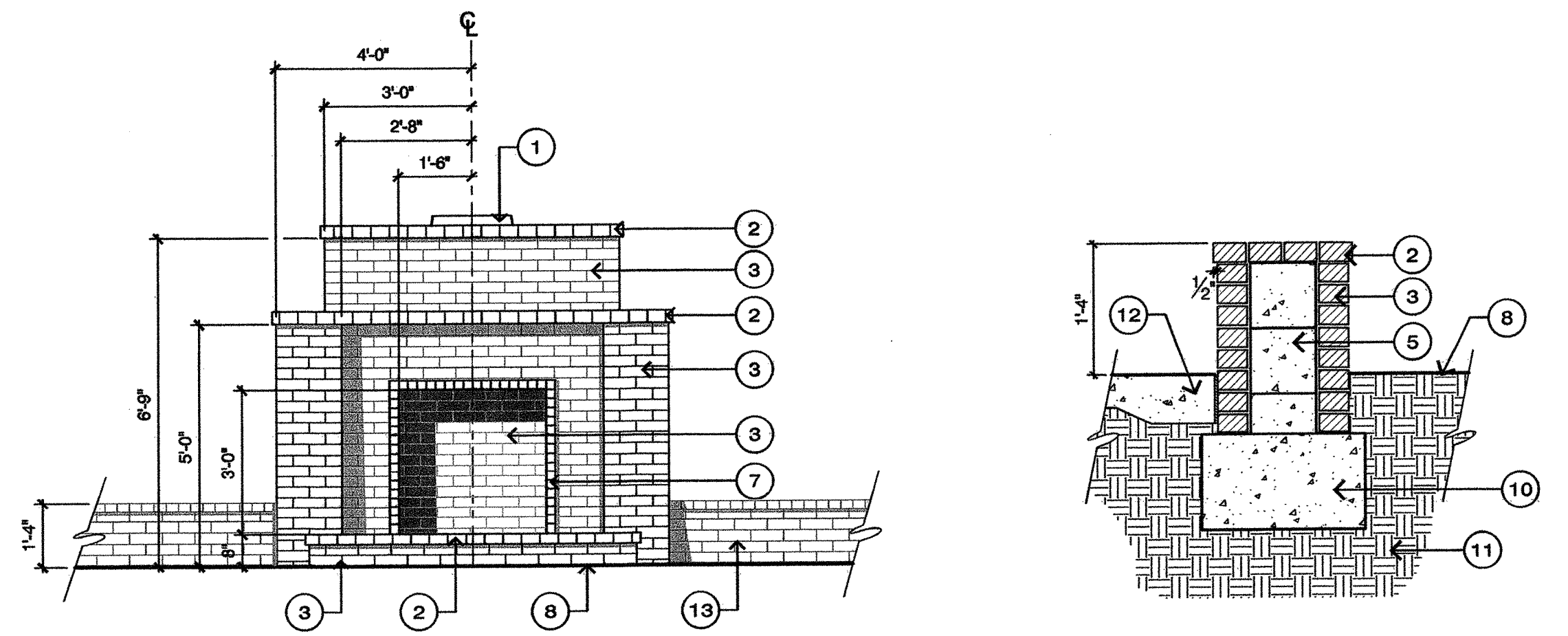


**LEGEND**

1. SPARK ARRESTOR
2. BRICK CAP (HEADER) - REFER TO FINISH SCHEDULE, SHEET L1.1
3. BRICK VENEER (RUNNING BOND STRETCHER) - REFER TO FINISH SCHEDULE, SHEET L1.1
4. FLUE LINER
5. CMU TO FIT
6. FIRE BRICK
7. FIRE BOX SURROUND - HEADER BRICK, CUT SQUARE
8. FINISH GRADE
9. GAS LINE
10. CONCRETE FOOTING
11. COMPACTED SUBGRADE
12. ADJACENT PAVING AND EXPANSION JOINT - REFER TO DETAIL 1, SHEET L2.1
13. WING WALL - REFER TO SECTION

**NOTES:**

- DETAILS ARE DIAGRAMMATIC ONLY AND NOT INTENDED FOR CONSTRUCTION. FINAL DETAILS AND STRUCTURAL INFORMATION SHALL BE REQUIRED PRIOR TO CONSTRUCTION.

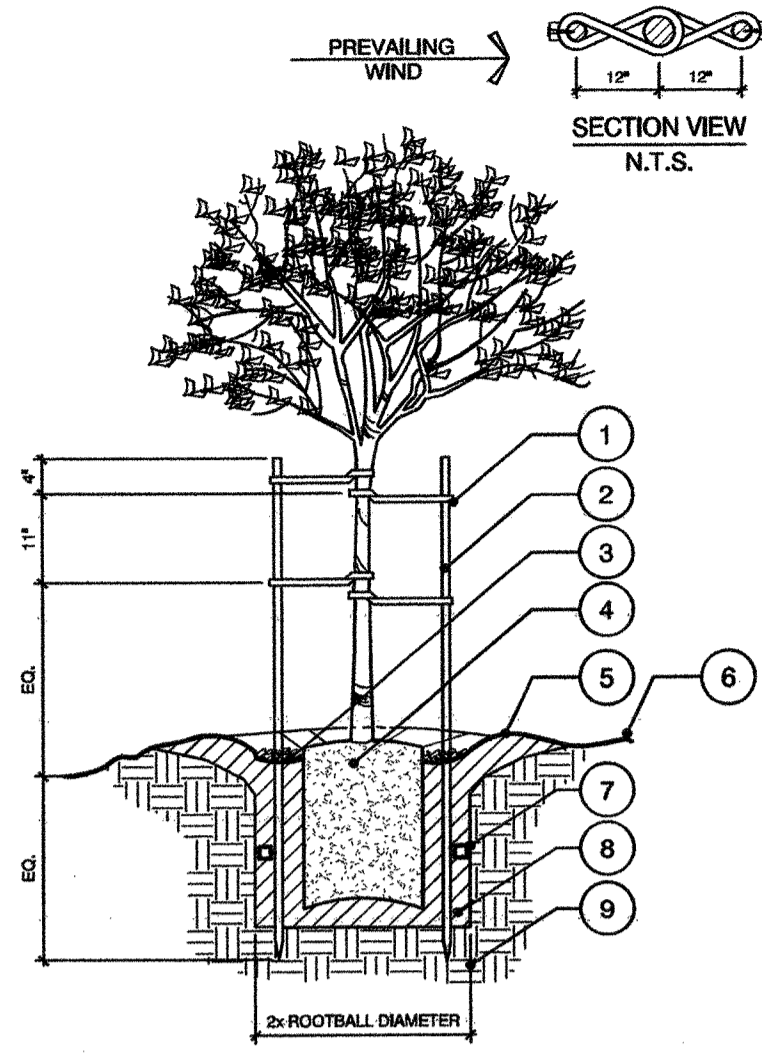


STORMWATER MANAGEMENT

**APPROVED**  
CITY OF WILMINGTON  
ENGINEERING DEPARTMENT  
DATE 6/27/13 PERMIT # 2613024  
SIGNED *[Signature]*

**Approved Const. Plan**  
Name: *[Name]* Date: *[Date]*  
Planning: *[Signature]*  
Public Utilities: *[Signature]*  
Traffic: *[Signature]*  
Fire: *[Signature]*

**1 BRICK FIREPLACE AT AMENITY AREA**

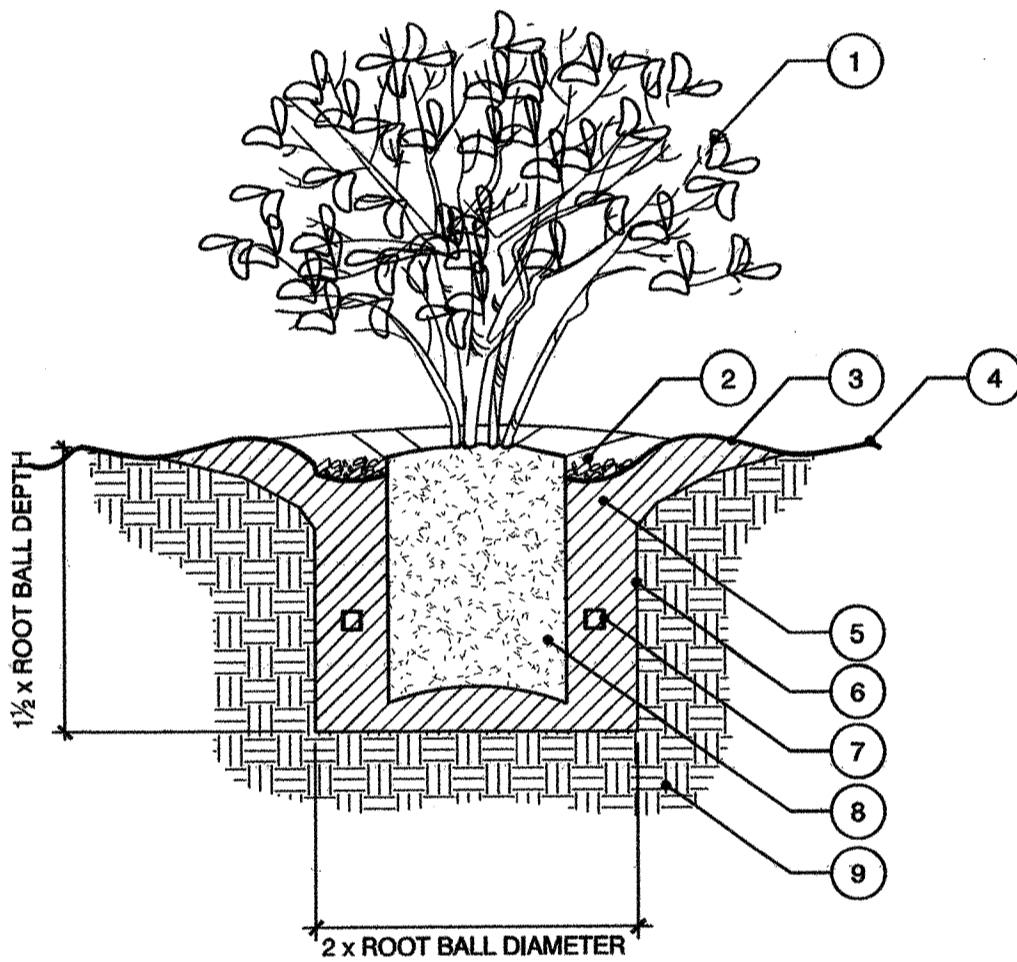


**LEGEND**

1. 24" CORDED BLACK RUBBER TREE TIE LOOP AT TRUNK AND NAIL TO STAKE
2. 2 1/2" DIA. x 12' LONG TREATED LODGEPOLE PINE STAKE
3. 3" LAYER OF MULCH
4. ROOT BALL
5. 3" WATER BASIN
6. FINISH GRADE
7. FERTILIZER TABLET - REFER TO SCHEDULE FOR QUANTITY, THIS SHEET
8. TOPSOIL & NATIVE BACKFILL MIXTURE
9. NATIVE SUBGRADE

NOTES:  
 - SCARIFY ROOT BALLS OF PLANTS WITH CIRCLING ROOTS.  
 - HEAVILY ROOT BOUND SHRUBS WILL NOT BE ACCEPTED

**2 TREE STAKING & PLANTING**

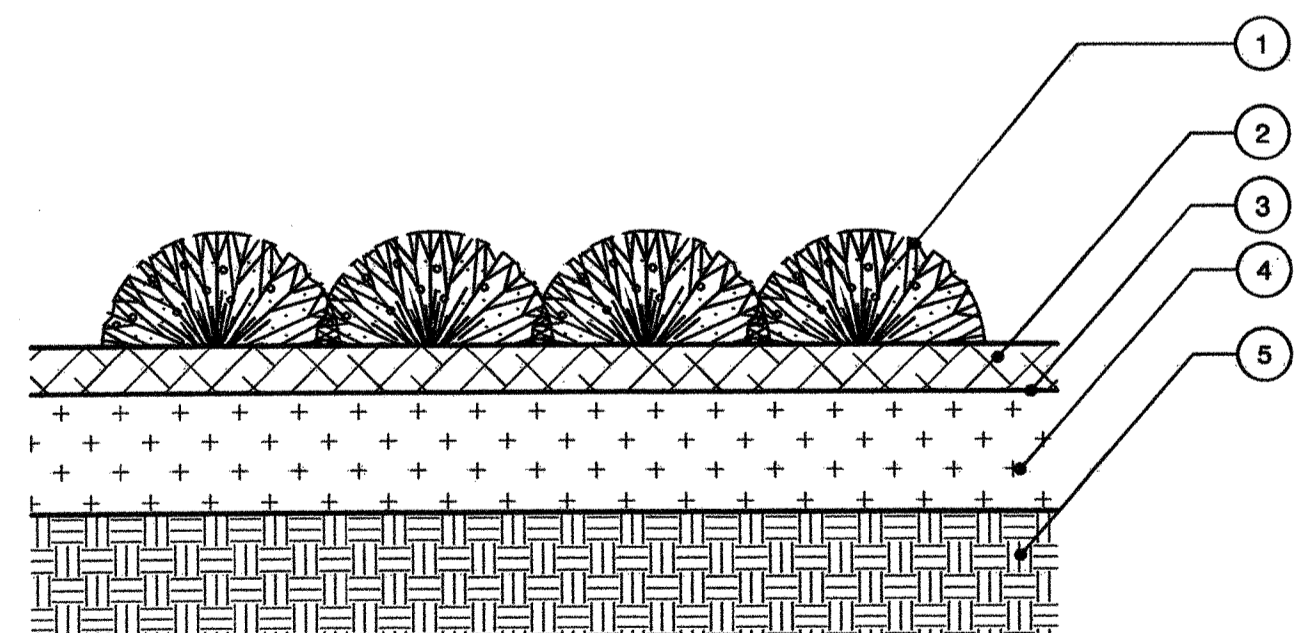


**LEGEND**

1. SHRUB
2. 3" LAYER OF MULCH
3. 3" WATER BASIN
4. FINISH GRADE
5. TOPSOIL & NATIVE BACKFILL MIXTURE
6. SCARIFY EDGE OF PIT
7. FERTILIZER TABLETS - REFER TO SCHEDULE FOR QUANTITY
8. ROOT BALL
9. NATIVE SUBGRADE

NOTES:  
 - SCARIFY ROOT BALLS OF PLANTS WITH CIRCLING ROOTS.  
 - HEAVILY ROOT BOUND SHRUBS WILL NOT BE ACCEPTED

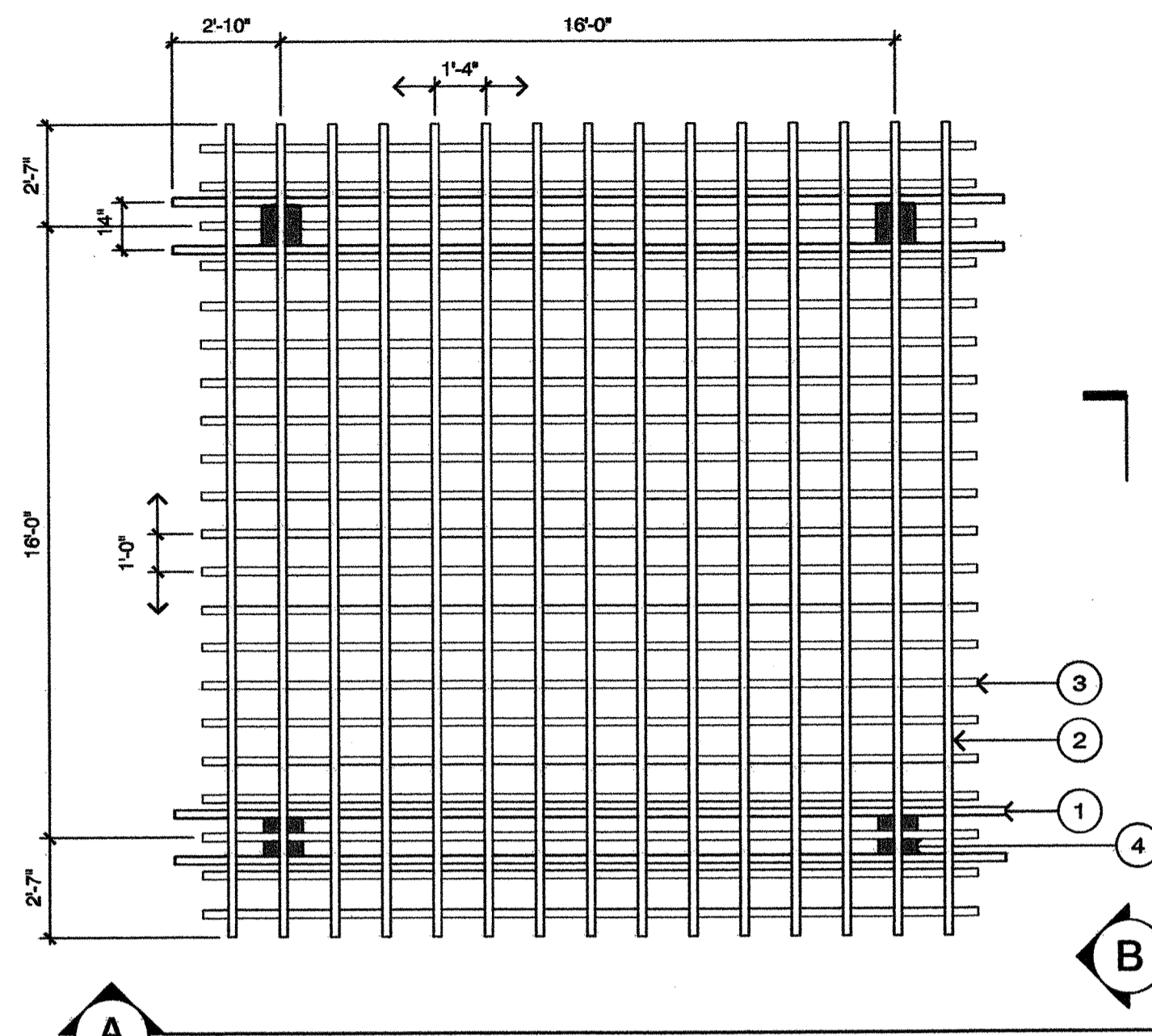
**3 SHRUB PLANTING**



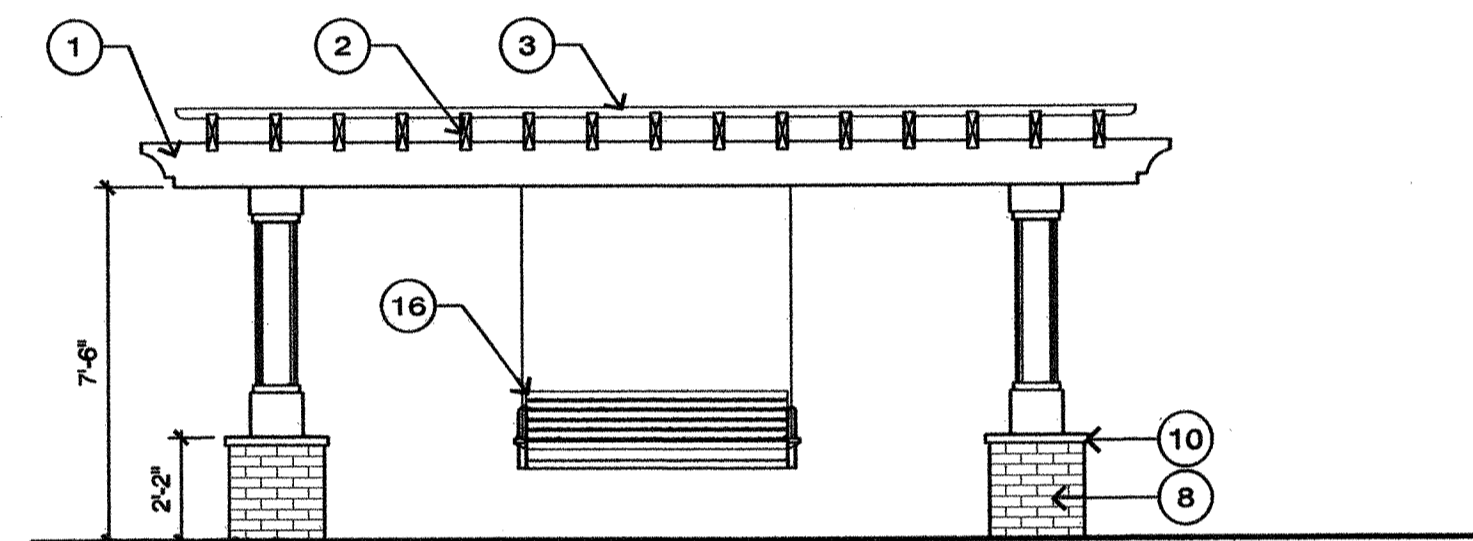
**LEGEND**

1. GROUND COVER PLANT FROM FLAT - REFER TO PLANTING PLAN AND TO DETAIL 1, THIS SHEET FOR SPACING INFORMATION
2. 3" LAYER OF MULCH
3. FINISH GRADE
4. TOPSOIL AND NATIVE BACKFILL - REFER TO PLANTING SPECIFICATIONS, SHEET L7.1 FOR TYPE AND DEPTH
5. COMPACTED SUBGRADE

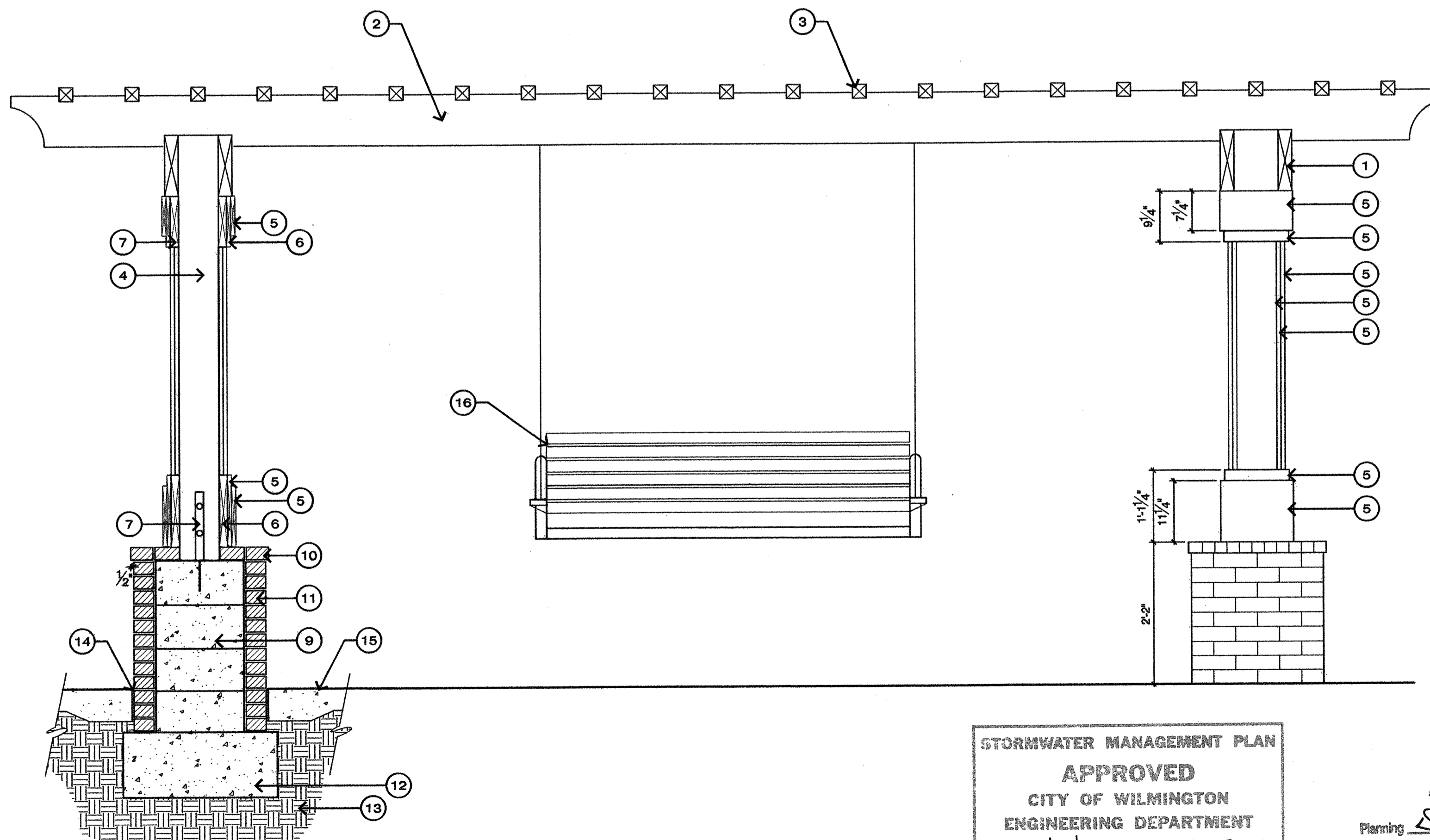
**4 GROUNDCOVER PLANTING**



PLAN VIEW  
SCALE: 1/4" = 1'-0"



ELEVATION VIEW 'A'  
SCALE: 1/4" = 1'-0"



SECTION / ELEVATION VIEW 'B'  
SCALE: 3/4" = 1'-0"

**LEGEND**

1. 3x12 GRAB BEAM
2. 3x10 JOIST
3. 3x3 LATTICE
4. 8x8 POST
5. 1x PLANT-ON
6. 2x PLANT-ON
7. SIMPSON POST BASE CONNECTION
8. BRICK BASE
9. CMU TO FIT
10. BRICK CAP - HEADER
11. BRICK VENEER - RUNNING BOND
12. CONCRETE FOOTING
13. COMPACTED SUBGRADE
14. EXPANSION JOINT
15. FINISH GRADE
16. PORCH SWING - TO BE SELECTED

NOTES:

- REFER TO STRUCTURAL ENGINEER'S DETAIL FOR ALL INFORMATION PERTAINING TO CONNECTIONS, FOOTING AND REINFORCEMENT
- ALL LUMBER SHALL BE KILN DRIED PRESSURE TREATED
- PAINT ALL LUMBER WITH (1) COAT MOISTURE PROOF PRIMER AND (2) FINISH COATS
- ALL CONNECTORS, FASTENERS AND OTHER HARDWARE SHALL BE HOT DIPPED GALVANIZED

STORMWATER MANAGEMENT PLAN  
**APPROVED**  
 CITY OF WILMINGTON  
 ENGINEERING DEPARTMENT  
 DATE 6/28/13 PERMIT #2013020  
 SIGNED [Signature]

Approved Const. Plan  
 Name: Dawn M. Brotherton Date: 6/28/2013  
 Planning: [Signature]  
 Public Utilities: [Signature]  
 Traffic: [Signature]  
 Fire: [Signature]



Revisions

**CLIENT**  
 The Cleander Company, Inc.  
 P.O. Box 3145  
 Wilmington, North Carolina  
 Phone: 910.392.3300

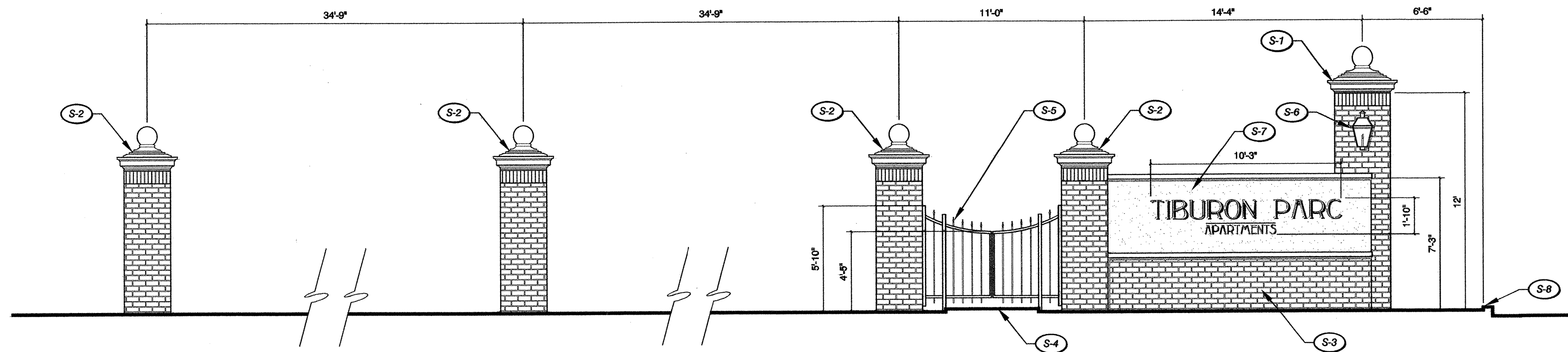
**PROJECT**  
 Tiburon Parc Apartment Homes  
 Wilmington, North Carolina

Date: 05.21.2013  
 Phase: CD  
 Job Number: 530-01  
 Designed by: JWM  
 Drawn by: MWL  
 Checked by: JWM

Sheet Title:  
 Details - Landscape

Sheet Number  
**L2.3**  
 of 10 sheets

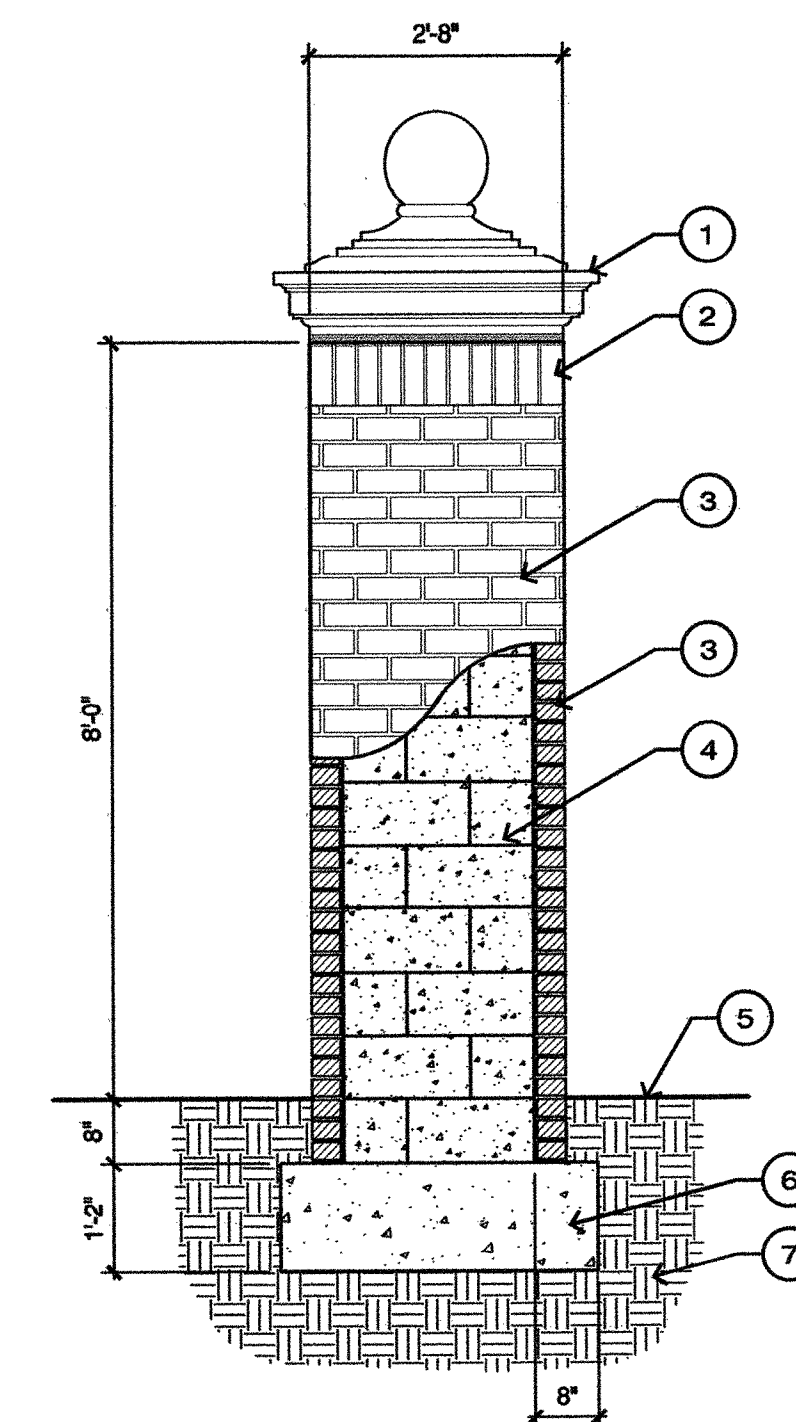
H.U.D. / PERMIT SET



SECTION VIEW  
SCALE: 1/4" = 1'-0"

**LEGEND**

SYMBOL	DESCRIPTION	DETAIL	SHEET
S-1	12' BRICK PILASTER WITH PRE-CAST CAP	1	L2.4
S-2	8' BRICK PILASTER WITH PRE-CAST CAP	2	L2.4
S-3	ENTRY WALL WITH SIGN	3	L2.4
S-4	CONCRETE SIDEWALK		
S-5	IRON ENTRY GATE		
S-6	LANTERN - TO BE SELECTED		
S-7	TABBY SHELL SIGN WALL	3	L2.4
S-8	BACK OF CURB		



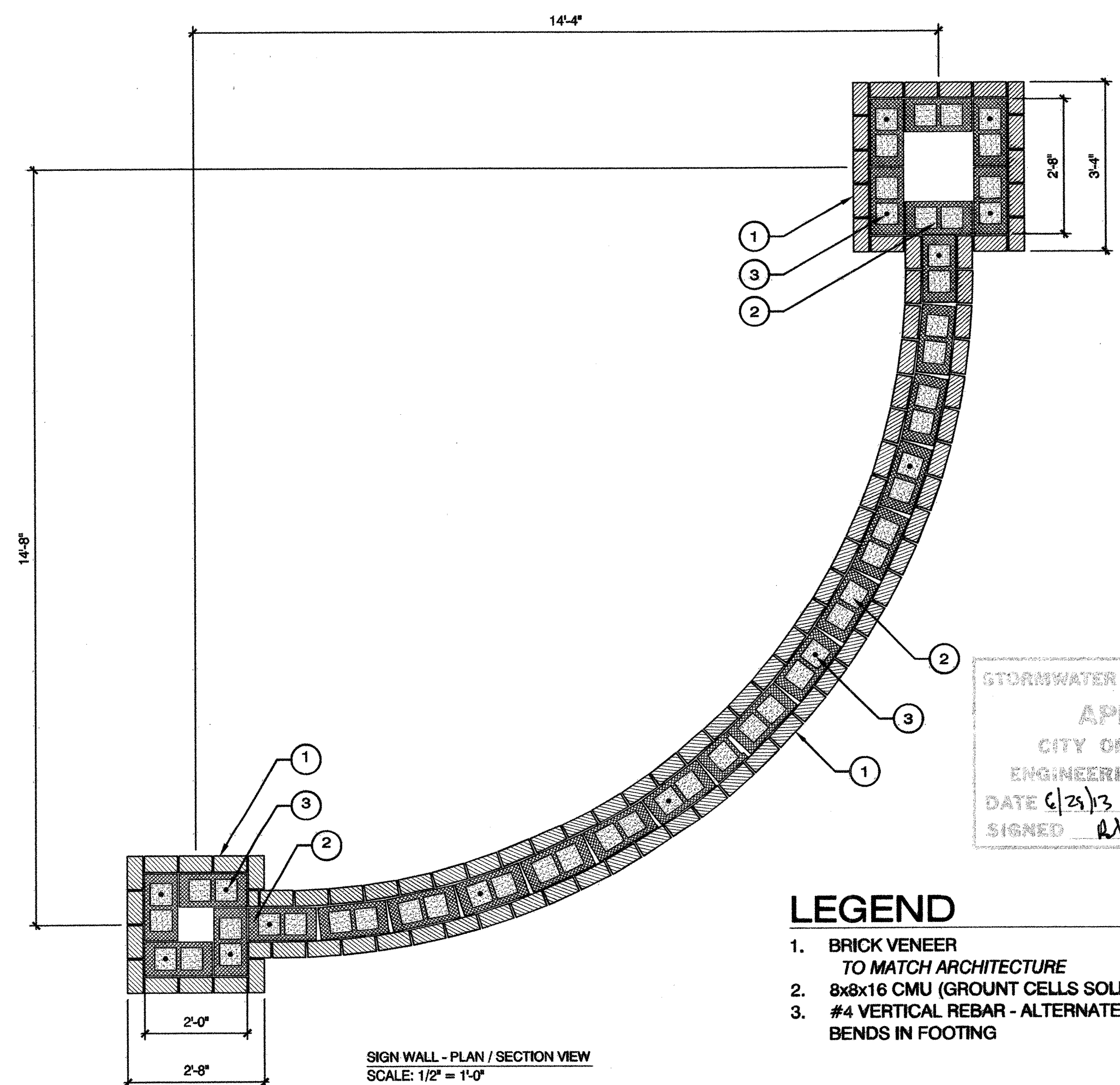
SECTION/ELEVATION VIEW  
SCALE: 1/2" = 1'-0"

**LEGEND**

1. PRECAST CONCRETE CAP  
MODEL: TO BE SELECTED  
AVAILABLE FROM: TO BE SELECTED
2. BRICK BAND (SOLDIER)
3. BRICK VENEER  
TO MATCH ARCHITECTURE
4. CMU (GROUT CELLS SOLID)
5. FINISH GRADE
6. CONCRETE FOOTING
7. COMPACTED SUBGRADE

**5 ENTRY ELEVATION**

**2 8' BRICK PILASTER**

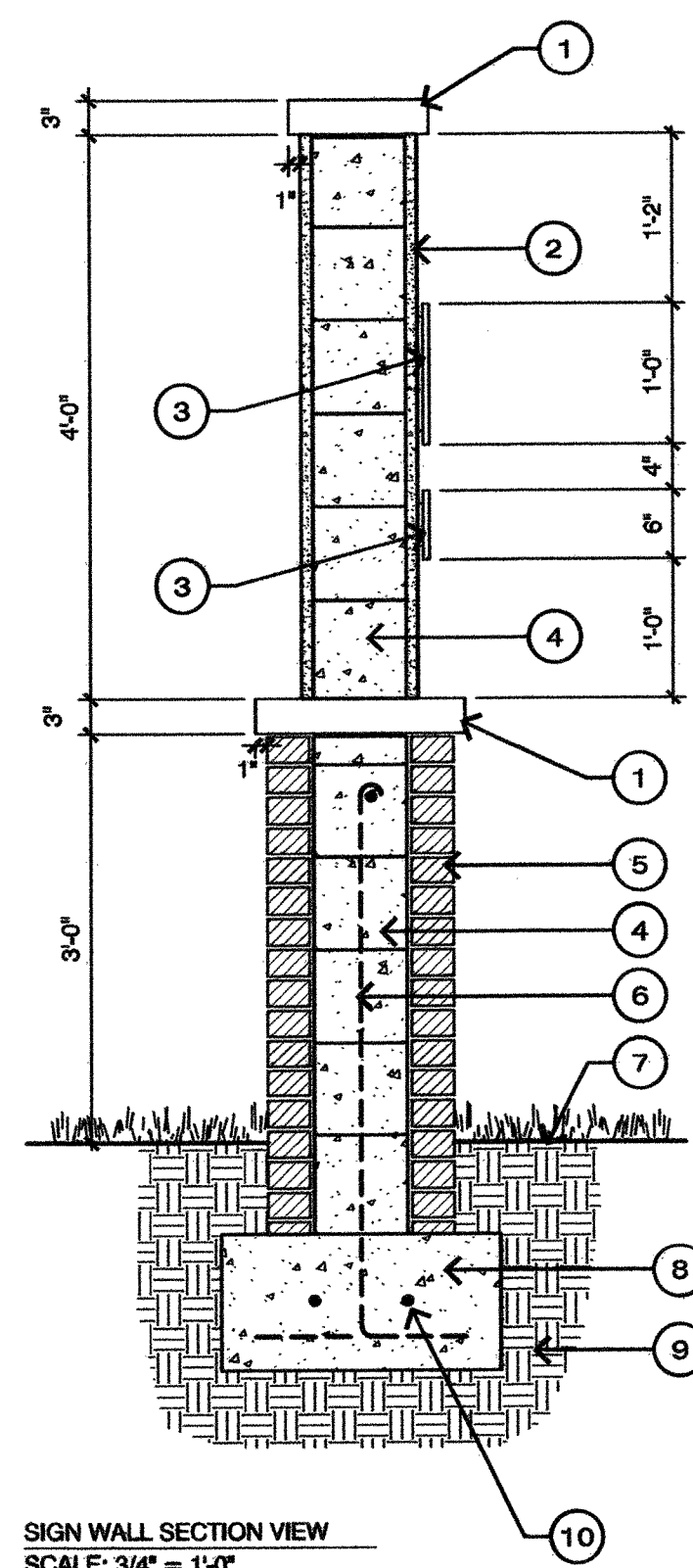


SIGN WALL - PLAN / SECTION VIEW  
SCALE: 1/2" = 1'-0"

**LEGEND**

1. BRICK VENEER  
TO MATCH ARCHITECTURE
2. 8x8x16 CMU (GROUT CELLS SOLID)
3. #4 VERTICAL REBAR - ALTERNATE BENDS IN FOOTING

STORMWATER MANAGEMENT PLAN  
APPROVED  
CITY OF WILMINGTON  
ENGINEERING DEPARTMENT  
DATE 6/25/13 PERMIT # 2013020  
SIGNED [Signature]

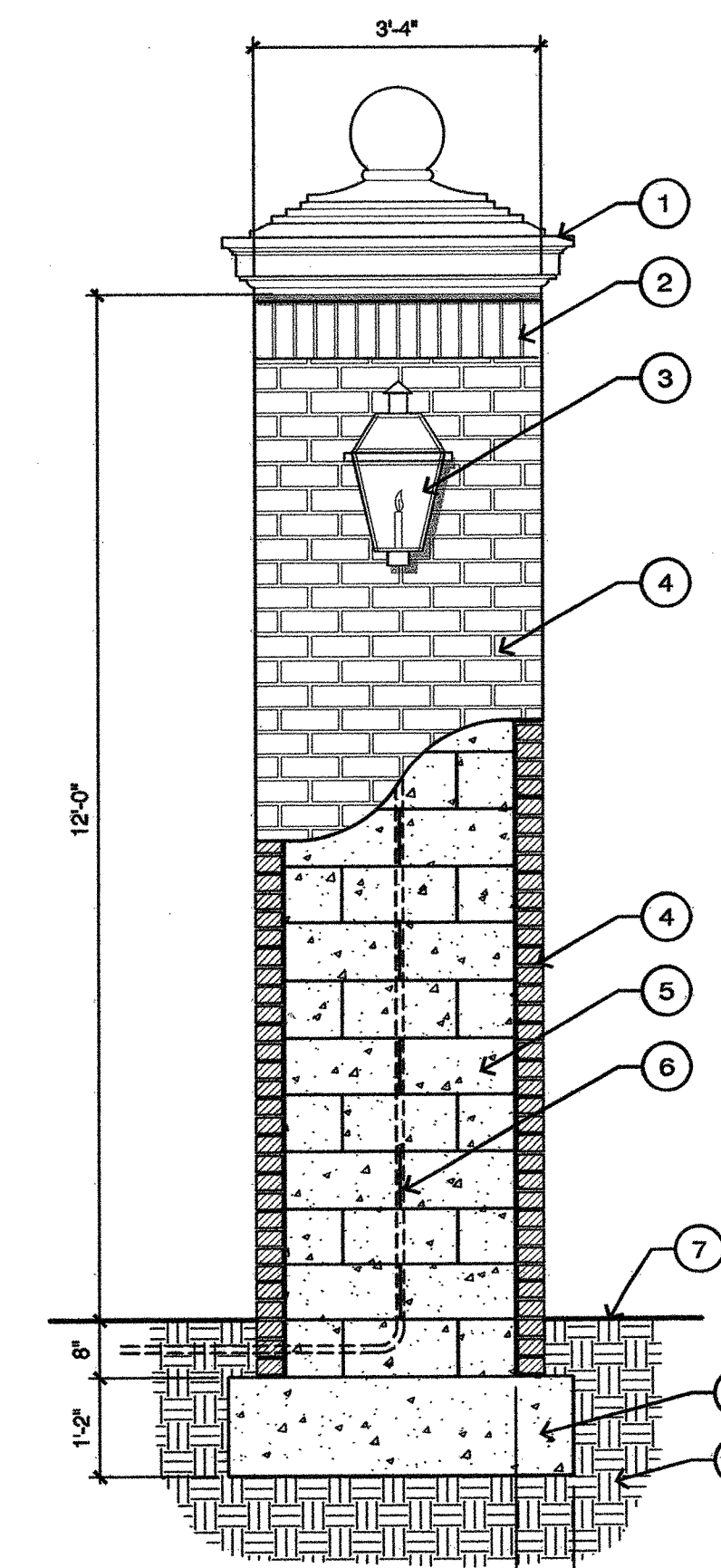


SIGN WALL SECTION VIEW  
SCALE: 3/4" = 1'-0"

**LEGEND**

1. PRECAST CONCRETE CAP
2. TABBY STUCCO VENEER
3. SIGN LETTERING
4. 8x8x16 CMU - GROUT CELLS SOLID
5. BRICK VENEER  
TO MATCH ARCHITECTURE
6. #4 VERTICAL REBAR @ 48" O.C. - ALTERNATE BENDS IN FOOTING
7. FINISH GRADE
8. CONCRETE FOOTING
9. COMPACTED SUBGRADE
10. #4 HORIZONTAL REBAR

Approved Const. Plan  
Name: Dawn [Signature] Date: 6/25/13  
Planning: [Signature]  
Public Utilities: [Signature]  
Traffic: [Signature]  
Fire: [Signature]



SECTION/ELEVATION VIEW  
SCALE: 1/2" = 1'-0"

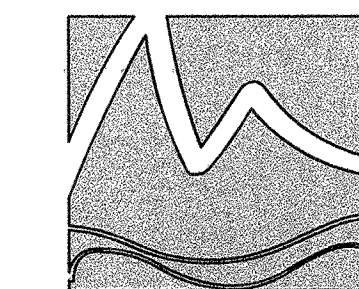
**LEGEND**

1. PRECAST CONCRETE CAP  
MODEL: TO BE SELECTED  
AVAILABLE FROM: TO BE SELECTED
2. BRICK BAND (SOLDIER)
3. LANTERN  
MODEL: TO BE SELECTED  
AVAILABLE FROM:  
CAROLINA LANTERN  
(877.881.4173)
4. BRICK VENEER  
TO MATCH ARCHITECTURE
5. 8x8x16 CMU (GROUT CELLS SOLID)
6. ELECTRICAL CONDUIT FOR LANTERN
7. FINISH GRADE
8. CONCRETE FOOTING
9. COMPACTED SUBGRADE

**4 ENTRY WALL AND PILASTERS - PLAN VIEW**

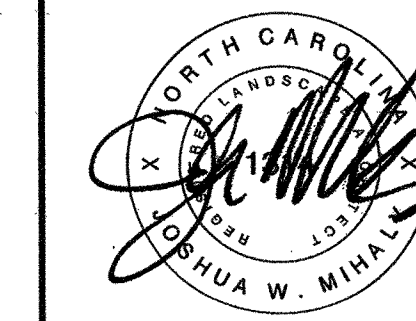
**3 ENTRY WALL WITH SIGN - SECTION VIEW**

**1 12' BRICK PILASTER**



**MIHALY**  
LAND DESIGN

PLANNING + LANDSCAPE ARCHITECTURE  
330 Military Cutoff Rd. Suite A3  
Wilmington, NC 28403 910.392.4355



**Revisions**

1. 06/12/13 - ADDED DIMENSIONS FOR SIGN, GATE.

**CLIENT**  
The Oleander Company, Inc.  
P.O. Box 3145  
Wilmington, North Carolina  
Phone: 910.392.3300

**PROJECT**  
Tiburon Parc Apartment Homes  
Wilmington, North Carolina

Date: 05.21.2013  
Phase: CD  
Job Number: 530-01  
Designed by: JWM  
Drawn by: MWL  
Checked by: JWM

Sheet Title:  
Details - Landscape

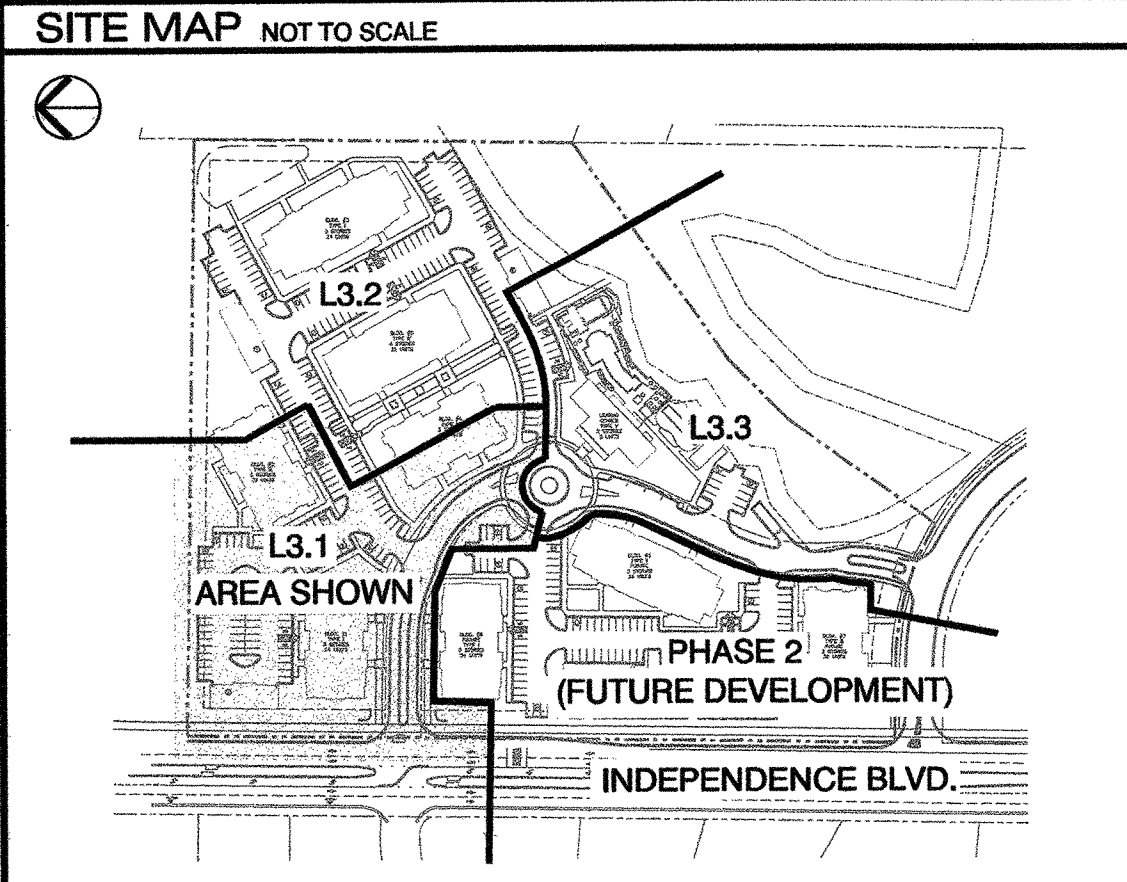
Sheet Number

**L2.4**  
of 10 sheets

H.U.D. / PERMIT SET

**STORMWATER MANAGEMENT PLAN**  
**APPROVED**  
 CITY OF WILMINGTON  
 ENGINEERING DEPARTMENT  
 DATE 6/25/13 PERMIT # 2013020  
 SIGNED *R.H. De*

Approved Const. Plan  
 Name *Dawn M. Smith* Date *6/26/2013*  
 Planning *Dawn M. Smith*  
 Public Utilities *4/27/13*  
 Traffic *7/1/2012*  
 Fire *8/11*



**PLANTING LEGEND**

TREES	BOTANICAL / COMMON NAME	SIZE	QUANTITY
⊙	CUPRESSUS ARIZ. 'CAROLINA SAPPHIRE' * CYPRESS	2.5' CAL. 10-12' HT.	6
⊕	ERIOBOTRYA JAPONICA LOQUAT	7-8' 25 GAL.	4
⊖	ILEX C. 'BURFORDII' BURFORD HOLLY (TREE FORM)	8-8' 8-10' HT.	13
⊗	ILEX x EAST PALATKA EAST PALATKA HOLLY	8-8' 8-10' TREE FORM	11
⊘	ILEX x NELLIE R. STEVENS NELLIE STEVENS HOLLY	8-8' 8-10' HT.	10
⊙	LAGERSTROEMIA INDICA 'NATCHEZ' 'NATCHEZ' CRAPE MYRTLE	8-8' 10-12' HT.	5
⊕	MAGNOLIA G. 'D.D. BLANCHARD' * SOUTHERN MAGNOLIA	3' CAL. 8-8' 8-10' HT.	11
⊖	MYRICA CERIFERA (TREE FORM) WAX MYRTLE	5-6' HT. 15 GAL.	17
⊗	PINUS TAEDA * LOBLOLLY PINE	7-8' HT. 15 GAL.	11
⊘	QUERCUS VIRGINIANA * LIVE OAK	8-8' - 3' CAL. 10-12' HT.	24
⊙	THUJA OCCIDENTALIS GIANT ARBORVITAE	15 GAL. 5-6' HT.	41
⊕	SPADED OAK RELOCATED		2

SHADE TREE CANOPY WITH 15' RADIUS TO BE USED FOR PARKING LOT SHADING REQUIREMENTS

EXISTING TREE TO BE PRESERVED \*

11' PINE

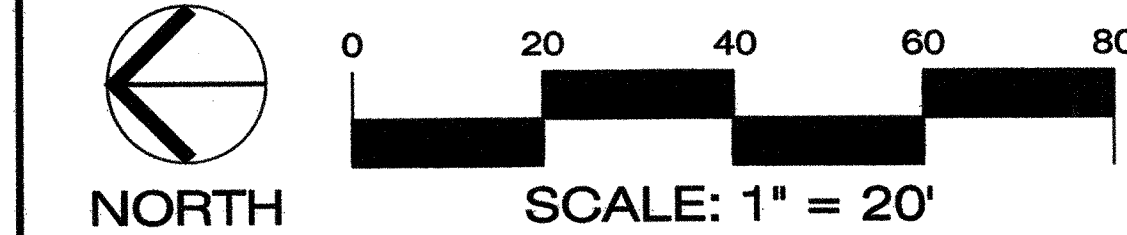
\* TREES COUNTED TOWARDS TREE PLANTING REQUIREMENTS

**SHRUBS AND VINES**

SYMBOL	BOTANICAL / COMMON NAME	SIZE / SPACING	QUANTITY
⊕	AZALEA 'FORMOSA' SOUTHERN INDICA HYBRID	3 GAL. 15-18"	14
⊖	BUXUS M. 'WINTER GEM' WINTER GEM BOXWOOD	3 GAL. 12-15"	221
⊗	CAMELLIA S. 'YULETIDE' SASANGUA CAMELLIA	7 GAL. 3-4"	56
⊘	CLEYERA JAPONICA JAPANESE CLEYERA	3 GAL. 24-30"	29
⊕	HEMEROCALLIS 'STELLA DE ORO' STELLA DE ORO	1 GAL. 12"	55
⊖	HYDRANGEA 'NIKKO BLUE' NIKKO BLUE HYDRANGEA	3 GAL. 15-18"	9
⊗	ILEX VOMITORIA 'NANA' DWARF YALPON HOLLY	3 GAL. 12-15"	72
⊘	LIGUSTRUM RECURVIFOLIUM PRIVET	7 GAL. 24-30"	5
⊕	LORPETALUM CHINENSE 'RUBY' RUBY LOROPETALUM	3 GAL. 12-15"	52
⊖	MISCANTHUS SINENSIS 'ADAGIO' DWARF MAIDEN GRASS	3 GAL. 12-15"	131
⊗	PITTIOSPORUM 'VARIAGATA' VARIEGATED PITTIOSPORUM	3 GAL. 15-18"	17
⊘	RHAPHIOLEPSIS 'MAJESTIC BEAUTY' MAJESTIC BEAUTY HAWTHORN	3 GAL. 18-24"	89
⊕	ROSA 'KNOCKOUT' KNOCKOUT ROSES	3 GAL. 18-24"	38
⊖	VERBENACEAE 'NEW GOLD' LANTANA	1 GAL. 6-12"	34
⊗	VIBURNUM 'AWABUKI CHINDO' AWABUKI CHINDO VIBURNUM	7 GAL. 24-36"	13

**VINES AND GROUNDCOVER**

SYMBOL	BOTANICAL / COMMON NAME	SIZE / SPACING	QUANTITY
⊕	TRACHELOSPERMUM ASIAN JASMINE		460 SF
⊖	GROUND ROSES		40 SF
⊗	CROWN ZOYSIA	SOD	SEE PLAN



**SITE DATA**

ADDRESS	1741 TIBURON DR.
PARCEL ID	106108-004-024-000
EXISTING ZONING	MF-M
PHASE I PROJECT AREA	10.81 AC.

**LANDSCAPE REQUIREMENTS (ARTICLE 8)**

LANDSCAPE BUFFER	REQUIRED	PROVIDED
LANDSCAPE BUFFER	N/A	N/A
* ADJACENT CONSERVATION EASEMENT TO SERVE AS LANDSCAPE BUFFER WHERE NECESSARY.		
PARKING LOT INTERIOR CANOPY COVERAGE	17,487 SF (87,439 SF X 20%)	20,503 SF
TREES PROVIDED:	29 LARGE SHADE TREES * 707 SF =	20,503 SF
STREET YARD PLANTING INDEPENDENCE BLVD	4338 SF (241 LF x 18) 8 (1/ 600 SF) 44 (6/ 600 SF)	6665 SF 19 70
FOUNDATION PLANTING	12% FACADE AREA (ADJ. TO PARKING/DRIVE AISLE)	
BUILDING #1 (TYPE I)	1703 SF (364 LF x 39' HT x .12)	3985 SF
BUILDING #2 (TYPE III)	999 SF (219 LF x 38' HT x .12)	1190 SF
BUILDING #3 (TYPE II)	1349 SF (292 LF x 38.5' HT x .12)	3131 SF
BUILDING #4 (TYPE III)	1381 SF (303 LF x 38' HT x .12)	1638 SF
BUILDING #5 (TYPE I)	1900 SF (521 LF x 40.5' HT x .12)	3580 SF
LEASING CENTER (TYPE V)	732 SF (185 LF x 33' HT x .12)	2635 SF

**TREE REQUIREMENTS PER DISTURBED ACRE**  
 15 TREES PER DISTURBED ACRE MUST BE RETAINED OR PLANTED ON SITE.

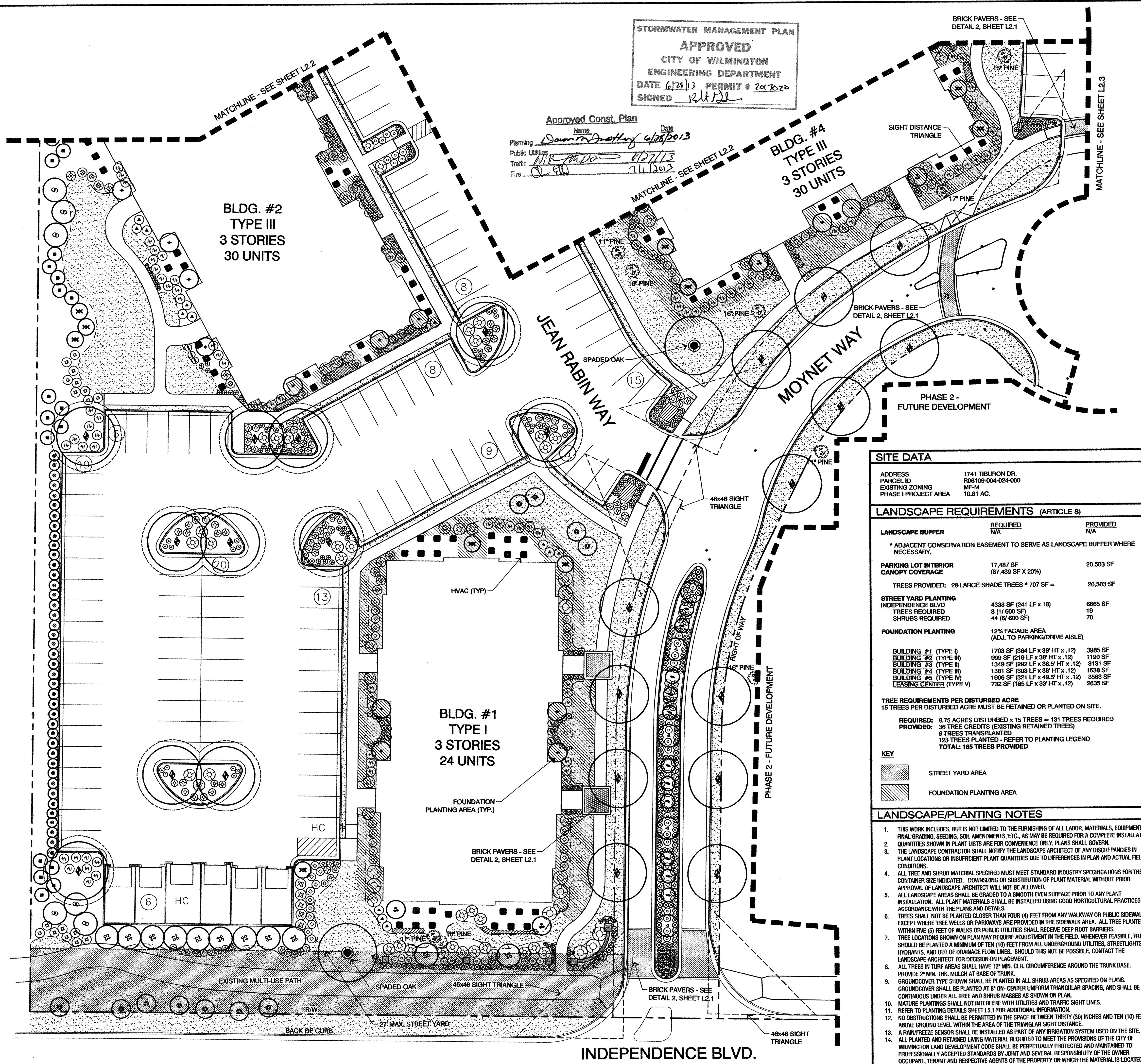
REQUIRED: 8.75 ACRES DISTURBED x 15 TREES = 131 TREES REQUIRED  
 PROVIDED: 36 TREE CREDITS (EXISTING RETAINED TREES)  
 6 TREES TRANSPLANTED  
 123 TREES PLANTED - REFER TO PLANTING LEGEND  
 TOTAL: 165 TREES PROVIDED

**KEY**

⊕	STREET YARD AREA
⊖	FOUNDATION PLANTING AREA

**LANDSCAPE/PLANTING NOTES**

- THIS WORK INCLUDES, BUT IS NOT LIMITED TO THE FURNISHING OF ALL LABOR, MATERIALS, EQUIPMENT, FINAL GRADING, SEEDING, SOIL AMENDMENTS, ETC., AS MAY BE REQUIRED FOR A COMPLETE INSTALLATION. QUANTITIES SHOWN IN PLANT LISTS ARE FOR CONVENIENCE ONLY. PLANS SHALL GOVERN.
- THE LANDSCAPE CONTRACTOR SHALL NOTIFY THE LANDSCAPE ARCHITECT OF ANY DISCREPANCIES IN PLANT LOCATIONS OR INSUFFICIENT PLANT QUANTITIES DUE TO DIFFERENCES IN PLAN AND ACTUAL FIELD CONDITIONS.
- ALL TREE AND SHRUB MATERIAL SPECIFIED MUST MEET STANDARD INDUSTRY SPECIFICATIONS FOR THE CONTAINER SIZE INDICATED. DOWNSIZING OR SUBSTITUTION OF PLANT MATERIAL WITHOUT PRIOR APPROVAL OF LANDSCAPE ARCHITECT WILL NOT BE ALLOWED.
- ALL LANDSCAPE AREAS SHALL BE GRADED TO A SMOOTH EVEN SURFACE PRIOR TO ANY PLANT INSTALLATION. ALL PLANT MATERIALS SHALL BE INSTALLED USING GOOD HORTICULTURAL PRACTICES IN ACCORDANCE WITH THE PLANS AND DETAILS.
- TREES SHALL NOT BE PLANTED CLOSER THAN FOUR (4) FEET FROM ANY WALKWAY OR PUBLIC SIDEWALK EXCEPT WHERE TREE WELLS OR PARKWAYS ARE PROVIDED IN THE SIDEWALK AREA. ALL TREES PLANTED WITHIN FIVE (5) FEET OF WALKS OR PUBLIC UTILITIES SHALL RECEIVE DEEP ROOT BARRIERS.
- TREE LOCATIONS SHOWN ON PLAN MAY REQUIRE ADJUSTMENT IN THE FIELD. WHENEVER FEASIBLE, TREES SHOULD BE PLANTED A MINIMUM OF TEN (10) FEET FROM ALL UNDERGROUND UTILITIES, STREETLIGHTS, HYDRANTS, AND OUT OF DRAINAGE FLOW LINES. SHOULD THIS NOT BE POSSIBLE, CONTACT THE LANDSCAPE ARCHITECT FOR DECISION ON PLACEMENT.
- ALL TREES IN TURF AREAS SHALL HAVE 12" MIN. CLR. CIRCUMFERENCE AROUND THE TRUNK BASE. PROVIDE 2" MIN. THK. MULCH AT BASE OF TRUNK.
- GROUNDCOVER TYPE SHOWN SHALL BE PLANTED IN ALL SHRUB AREAS AS SPECIFIED ON PLANS. GROUNDCOVER SHALL BE PLANTED AT 8" ON-CENTER UNIFORM TRIANGULAR SPACING, AND SHALL BE CONTINUOUS UNDER ALL TREE AND SHRUB MASSES AS SHOWN ON PLAN.
- MATURE PLANTINGS SHALL NOT INTERFERE WITH UTILITIES AND TRAFFIC SIGHT LINES.
- REFER TO PLANTING DETAILS SHEET L5.1 FOR ADDITIONAL INFORMATION.
- NO DISTRIBUTIONS SHALL BE PERMITTED IN THE SPACE BETWEEN THIRTY (30) INCHES AND TEN (10) FEET ABOVE GROUND LEVEL WITHIN THE AREA OF THE TRIANGULAR SIGHT DISTANCE.
- A RAIN/FREEZE SENSOR SHALL BE INSTALLED AS PART OF ANY IRRIGATION SYSTEM USED ON THE SITE.
- ALL PLANTED AND RETAINED LIVING MATERIAL REQUIRED TO MEET THE PROVISIONS OF THE CITY OF WILMINGTON LAND DEVELOPMENT CODE SHALL BE PERPETUALLY PROTECTED AND MAINTAINED TO PROFESSIONALLY ACCEPTED STANDARDS BY JOINT AND SEVERAL RESPONSIBILITY OF THE OWNER, OCCUPANT, TENANT AND RESPECTIVE AGENTS OF THE PROPERTY ON WHICH THE MATERIAL IS LOCATED.



**Revisions**

- 06/11/13 - ADDED LANDSCAPE REQUIREMENTS. TREES TO BE SPADED/RELOCATED; REVISED PLANTING.
- 06/18/13 - ADDED SIGHT DISTANCE TRIANGLES, ADJUSTED PLANTING ACCORDINGLY. REVISED LANDSCAPE REQUIREMENTS. EXISTING MULTI-USE PATH CORRECTED.

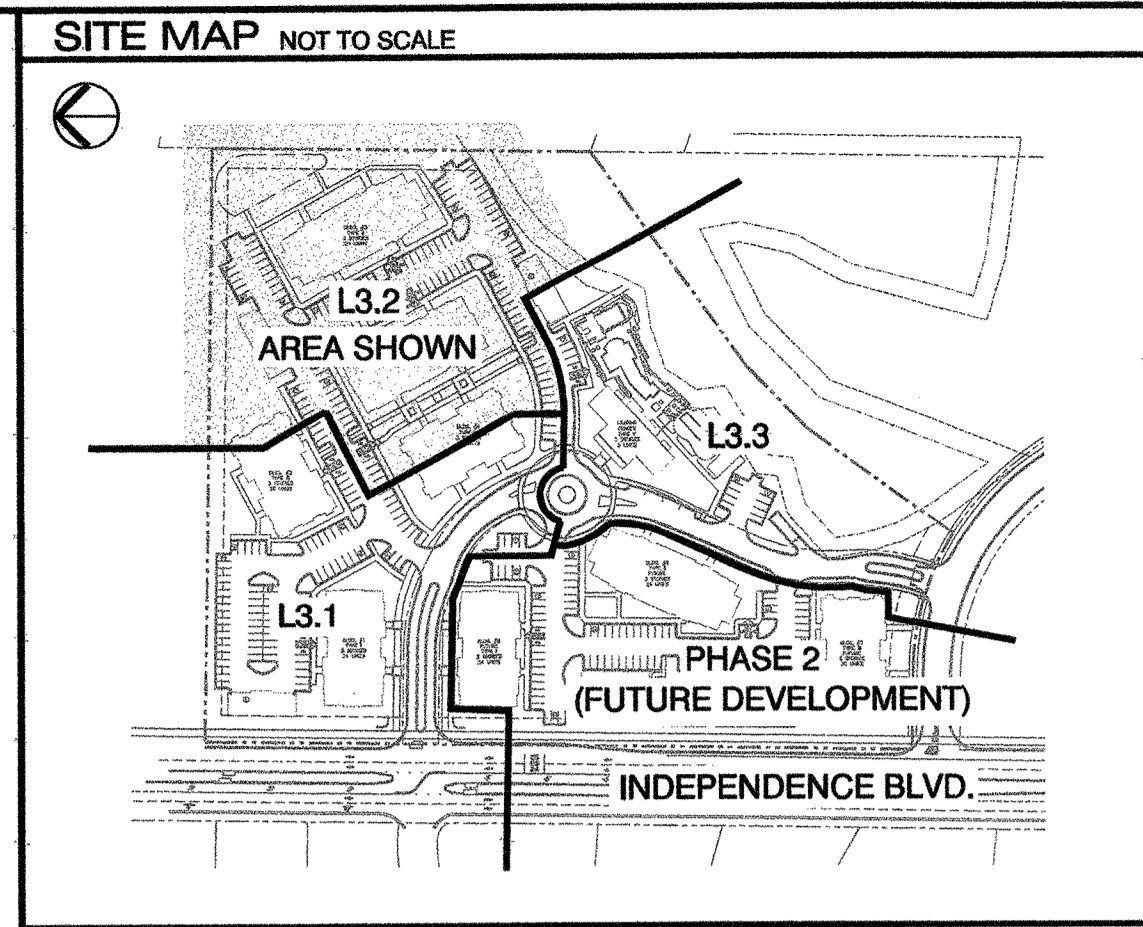
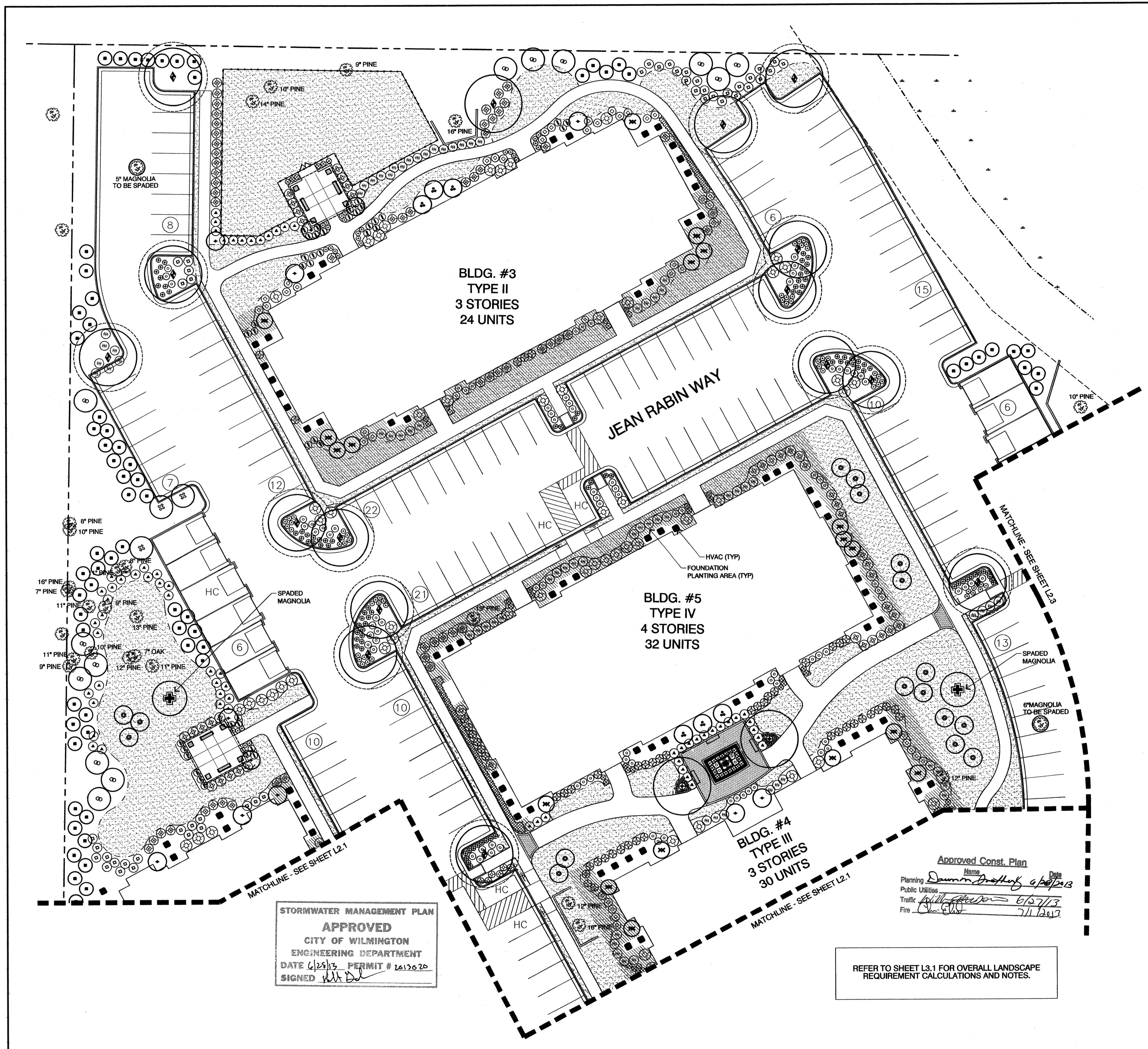
**CLIENT**  
 The Oleander Company, Inc.  
 P.O. Box 3145  
 Wilmington, North Carolina  
 Phone: 910.392.3300

**PROJECT**  
 Tiburon Parc Apartment Homes  
 Wilmington, North Carolina

Date: 05.21.2013  
 Phase: CD  
 Job Number: 530-01  
 Designed by: JWM  
 Drawn by: MWL  
 Checked by: JWM

Sheet Title: PLANTING PLAN  
 Sheet Number: **L3.1**  
 of 10 sheets

H.U.D. / PERMIT SET



**PLANTING LEGEND**

**TREES**

SYMBOL	BOTANICAL / COMMON NAME	SIZE	QUANTITY
⊙	CUPRESSUS ARIZ. 'CAROLINA SAPPHIRE' * CYPRESS	2.5" CAL 10-12 HT.	13
⊕	ERIOBOTRYA JAPONICA LOQUAT	7-8" HT. 25 GAL.	6
⊙	ILEX C. 'BURFORDII' BURFORD HOLLY (TREE FORM)	B&B 8-10" HT.	12
⊗	ILEX x NELLIE R. STEVENS NELLIE STEVENS HOLLY	B&B 8-10" HT.	18
⊕	MAGNOLIA G. 'D.D. BLANCHARD' * SOUTHERN MAGNOLIA	3" CAL. B&B 8-10" HT.	3
⊕	MYRICA CERIFERA (TREE FORM) WAX MYRTLE	5-6" HT. 15 GAL.	69
⊕	PINUS TAEDA * LOBLOLLY PINE	7-8" HT. 15 GAL.	17
⊕	QUERCUS VIRGINIANA * LIVE OAK	B&B - 3" CAL 10-12 HT.	16
⊕	QUERCUS VIRGINIANA * LIVE OAK	100 GAL - 5" CAL 12-14" HT.	2
⊕	SPAVED MAGNOLIA RELOCATED		2
⊕	SHADE TREE CANOPY WITH 15' RADIUS TO BE USED FOR PARKING LOT SHADING REQUIREMENTS		
⊕	EXISTING TREE TO BE PRESERVED *		

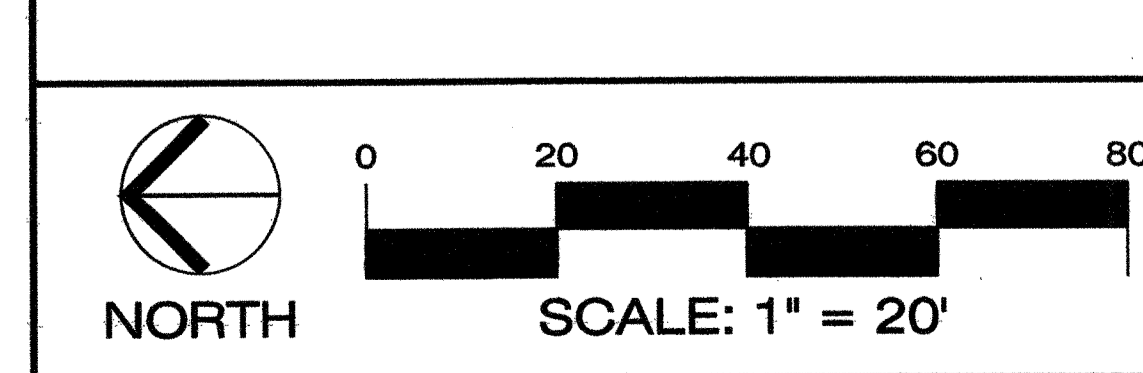
\* TREES COUNTED TOWARDS TREE PLANTING REQUIREMENTS

**SHRUBS AND VINES**

SYMBOL	BOTANICAL / COMMON NAME	SIZE / SPACING	QUANTITY
⊕	AZALEA 'FORMOSA' SOUTHERN INDICA HYBRID	3 GAL 15-18"	63
⊕	BUXUS M. 'WINTER GEM' WINTER GEM BOXWOOD	3 GAL 12-15"	58
⊕	CAMELLIA S. 'YULETIDE' SASANQUA CAMELLIA	7 GAL 3-4"	53
⊕	CLEYERA JAPONICA JAPANESE CLEYERA	3 GAL 24-30"	58
⊕	HEMEROCALLIS 'STELLA DE ORO' STELLA DE ORO	1 GAL 12"	20
⊕	HYDRANGEA 'NIKKO BLUE' NIKKO BLUE HYDRANGEA	3 GAL 15-18"	41
⊕	ILEX VOMITORIA 'NANA' DWARF YAUPON HOLLY	3 GAL 12-15"	91
⊕	LIGUSTRUM RECURVIFOLIUM PRIVET	7 GAL 24-30"	41
⊕	LORPETALEUM CHINENSE 'RUBY' RUBY LOROPETALUM	3 GAL 12-15"	39
⊕	MISCANTHUS SINENSIS 'ADAGIO' DWARF MAIDEN GRASS	3 GAL 12-15"	6
⊕	PITTIOSPORUM 'VARIAGATA' VARIEGATED PITTIOSPORUM	3 GAL 15-18"	46
⊕	PODOCARPUS N. 'MAKI' SOUTHERN YEW	7 GAL 3-4"	50
⊕	RHAPHIOLEPSIS 'MAJESTIC BEAUTY' MAJESTIC BEAUTY HAWTHORN	3 GAL 18-24"	72
⊕	ROSA 'KNOCKOUT' KNOCKOUT ROSES	3 GAL 18-24"	95
⊕	VERBENACEAE 'NEW GOLD' LANTANA	1 GAL 6-12"	83

**VINES AND GROUNDCOVER**

SYMBOL	BOTANICAL / COMMON NAME	SIZE / SPACING	QUANTITY
⊕	TRACHELOSPERMUM ASIAN JASMINE		194 SF
⊕	CROWN ZOYSIA	SOD	SEE PLAN



STORMWATER MANAGEMENT PLAN  
**APPROVED**  
 CITY OF WILMINGTON  
 ENGINEERING DEPARTMENT  
 DATE 6/25/13 PERMIT # 2612620  
 SIGNED [Signature]

REFER TO SHEET L3.1 FOR OVERALL LANDSCAPE REQUIREMENT CALCULATIONS AND NOTES.

Approved Const. Plan  
 Name: Dawn Dreyfus  
 Date: 6/20/13  
 Planning: Dawn Dreyfus  
 Public Utilities: [Signature]  
 Traffic: [Signature]  
 Fire: [Signature]

**MIHALY**  
 LAND DESIGN  
 PLANNING + LANDSCAPE ARCHITECTURE  
 330 Military Cutoff Rd. Suite A3  
 Wilmington, NC 28403 910.392.4355

**Revisions**

- 06/11/13 - ADDED LANDSCAPE REQUIREMENTS, TREES TO BE SPAVED/RELOCATED, REVISED PLANTING.
- 06/18/13 - REVISED TREES TO BE SPAVED, REVISED EXISTING TREE LABELS.

**CLIENT**  
 The Oleander Company, Inc.  
 P.O. Box 3145  
 Wilmington, North Carolina  
 Phone: 910.392.3300

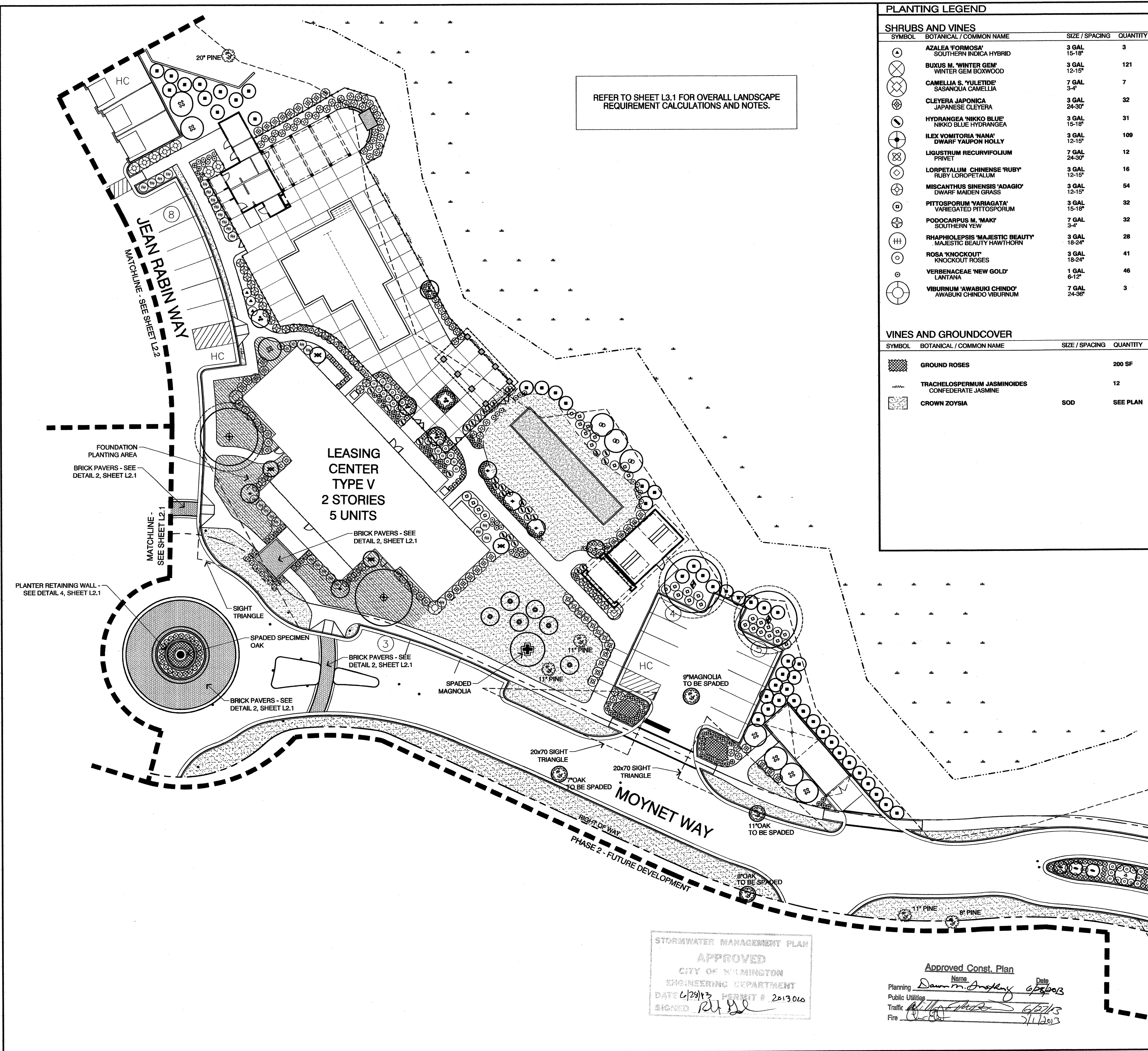
**PROJECT**  
 Tiburon Parc Apartment Homes  
 Wilmington, North Carolina

Date: 05.21.2013  
 Phase: CD  
 Job Number: 530-01  
 Designed by: JWM  
 Drawn by: MWL  
 Checked by: JWM

Sheet Title:  
 PLANTING PLAN

Sheet Number  
**L3.2**  
 of 10 sheets

H.U.D. / PERMIT SET



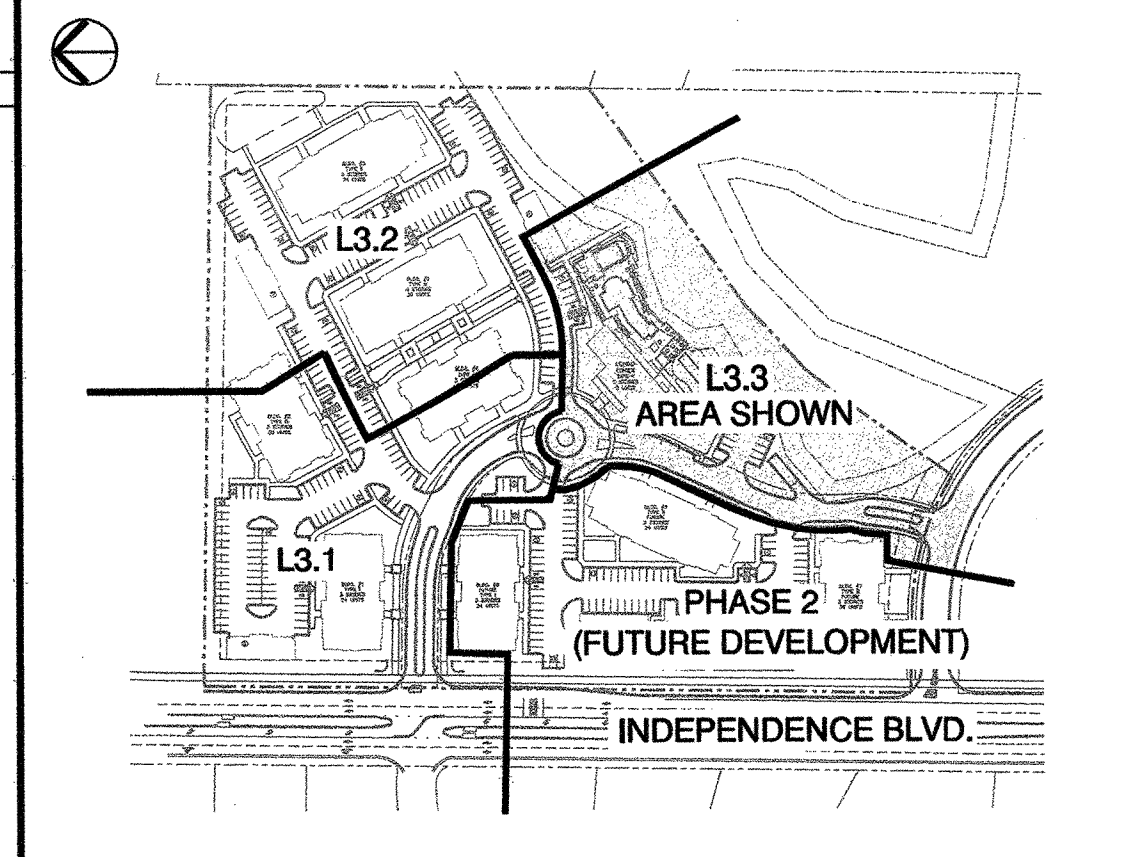
REFER TO SHEET L3.1 FOR OVERALL LANDSCAPE REQUIREMENT CALCULATIONS AND NOTES.

**PLANTING LEGEND**

SHRUBS AND VINES			
SYMBOL	BOTANICAL / COMMON NAME	SIZE / SPACING	QUANTITY
⊙	AZALEA 'FORMOSA' SOUTHERN INDICA HYBRID	3 GAL 15-18"	3
⊗	BUXUS M. 'WINTER GEM' WINTER GEM BOXWOOD	3 GAL 12-15"	121
⊗	CAMELLIA S. 'YULETIDE' SASANQUA CAMELLIA	7 GAL 24-30"	7
⊗	CLEYERA JAPONICA JAPANESE CLEYERA	3 GAL 15-18"	32
⊗	HYDRANGEA 'NIKKO BLUE' NIKKO BLUE HYDRANGEA	3 GAL 12-15"	31
⊗	ILEX VOMITORIA 'NANA' DWARF YALPON HOLLY	3 GAL 12-15"	109
⊗	LIGUSTRUM RECURVIFOLIUM PRIVET	7 GAL 24-30"	12
⊗	LORPETALEM CHINENSE 'RUBY' RUBY LOROPETALUM	3 GAL 12-15"	16
⊗	MISCANTHUS SINENSIS 'ADAGIO' DWARF MAIDEN GRASS	3 GAL 12-15"	54
⊗	PITOSPORUM 'VARIAGATA' VARIEGATED PITOSPORUM	3 GAL 15-18"	32
⊗	PODOCARPUS M. 'MAKI' SOUTHERN YEW	7 GAL 3-4"	32
⊗	RHAPHIOLEPSIS 'MAJESTIC BEAUTY' MAJESTIC BEAUTY HAWTHORN	3 GAL 18-24"	28
⊗	ROSA 'KNOCKOUT' KNOCKOUT ROSES	3 GAL 18-24"	41
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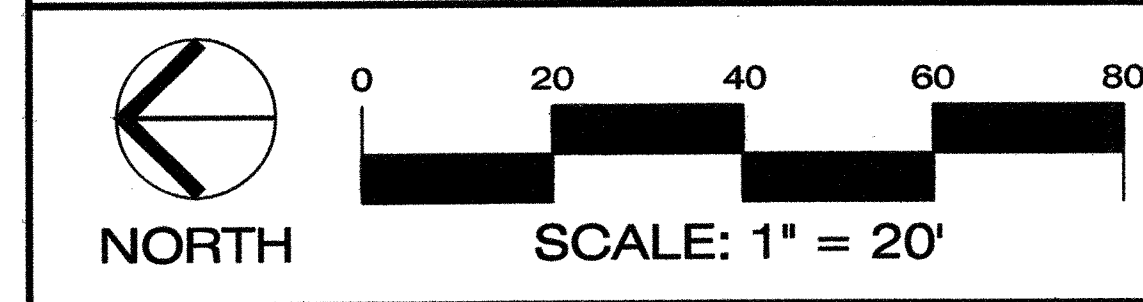
VINES AND GROUNDCOVER			
SYMBOL	BOTANICAL / COMMON NAME	SIZE / SPACING	QUANTITY
■	GROUND ROSES		200 SF
■	TRACHELOSPERMUM JASMINOIDES CONFEDERATE JASMINE		12
■	CROWN ZOYSIA	SOD	SEE PLAN

**SITE MAP NOT TO SCALE**



**PLANTING LEGEND**

TREES			
SYMBOL	BOTANICAL / COMMON NAME	SIZE	QUANTITY
⊙	CUPRESSUS ARIZ. 'CAROLINA SAPPHIRE' * CYPRESS	2.5" CAL 10-12 HT.	3
⊙	ERIOBOTRYA JAPONICA LOQUAT	7-8" HT. 25 GAL.	5
⊙	ILEX C. 'BURFORDII' BURFORD HOLLY (TREE FORM)	B&B 8-10' HT.	6
⊙	ILEX x EAST PALATKA EAST PALATKA HOLLY	B&B 8-10' TREE FORM	6
⊙	ILEX x NELLIE R. STEVENS NELLIE STEVENS HOLLY	B&B 8-10' HT.	4
⊙	LAGERSTROEMIA INDICA 'NATCHEZ' 'NATCHEZ' CRAPE MYRTLE	B&B 10-12 HT.	1
⊙	MAGNOLIA G. 'D.D. BLANCHARD' * SOUTHERN MAGNOLIA	3" CAL. B&B 8-10' HT.	7
⊙	MYRICA CERIFERA (TREE FORM) WAX MYRTLE	5-6" HT. 15 GAL.	49
⊙	PINUS TAEDA * LOBLOLLY PINE	7-8" HT. 15 GAL.	6
⊙	QUERCUS VIRGINIANA * LIVE OAK	B&B - 3" CAL 10-12'	2
⊙	QUERCUS VIRGINIANA * LIVE OAK	100 GAL - 5" CAL 12-14'	2
⊙	SPADED OAK RELOCATED		1
⊙	SPADED MAGNOLIA RELOCATED		1
⊙	SHADE TREE CANOPY WITH 15' RADIUS TO BE USED FOR PARKING LOT SHADING REQUIREMENTS		
⊙	EXISTING TREE TO BE PRESERVED * 11" PINE		



**MIHALY**  
LAND DESIGN  
PLANNING + LANDSCAPE ARCHITECTURE  
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Wilmington, NC 28403 910.392.4355

**Revisions**

- 06/11/13 - ADDED LANDSCAPE REQUIREMENTS. TREES TO BE SPADED/RELOCATED; REVISED PLANTING.
- 06/18/13 - REVISED EXISTING TREES TO BE SPADED. SIGHT TRIANGLES ADDED AND PLANTING REVISED ACCORDINGLY.

**CLIENT**  
**The Cleander Company, Inc.**  
P.O. Box 3145  
Wilmington, North Carolina  
Phone: 910.392.3300

**PROJECT**  
**Tiburon Parc Apartment Homes**  
Wilmington, North Carolina

Date: 05.21.2013  
Phase: CD  
Job Number: 530-01  
Designed by: JWM  
Drawn by: MWL  
Checked by: JWM

Sheet Title:  
PLANTING PLAN

Sheet Number  
**L3.3**  
of 10 sheets

STORMWATER MANAGEMENT PLAN  
APPROVED  
CITY OF WILMINGTON  
ENGINEERING DEPARTMENT  
DATE 6/29/13 PERMIT # 2013060  
SIGNED [Signature]

Approved Const. Plan  
Name: Dawn M. Driskell Date: 6/29/13  
Planning: [Signature] Date: 6/27/13  
Public Utilities: [Signature] Date: 6/27/13  
Traffic: [Signature] Date: 6/27/13  
Fire: [Signature] Date: 6/27/13

H.U.D. / PERMIT SET