LINEBERRY Architectural Group PA
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COMMERCIAL CORPORATE RETAIL & RESIDENTIAL STUDIOS

SHOPPING
SOUTH GREEN
DINING

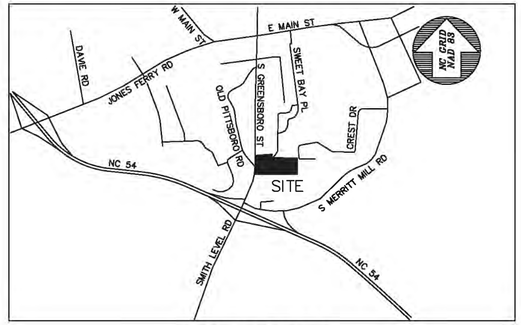
CONDITIONAL USE PERMIT

FOR

SOUTH GREEN

(TRIEM)

CARRBORO, NORTH CAROLINA



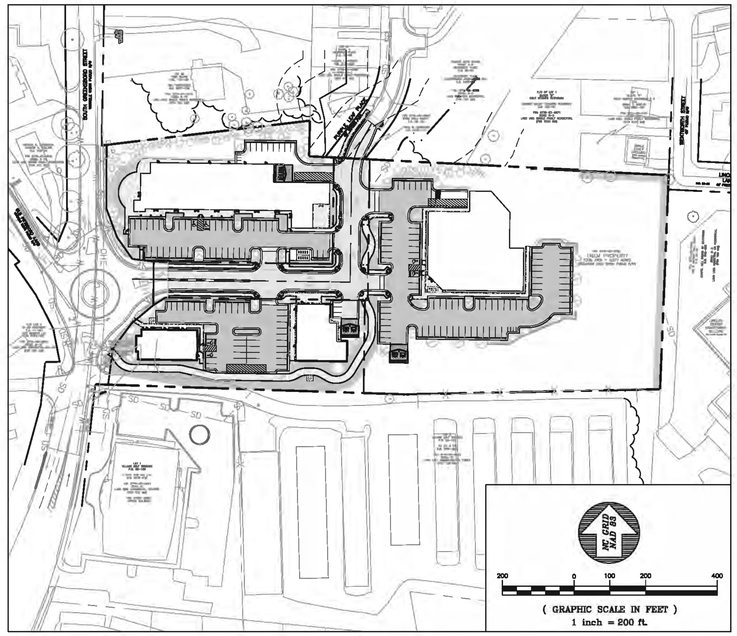
VICINITY MAP
SCALE: N.T.S.

SUMMARY INFORMATION:

A. TRACT SIZE – 5.977 ACRES – INCLUDES RAND ROAD RIGHT OF WAY
B. NUMBER OF PROPOSED LOTS– THREE
C. FLOOR AREA
1.EXISTING – 34648 SF
2. PROPOSED –
LOT 1 FIRST FLOOR – 15,431 SF
LOT 1 SECOND FLOOR – 992 SF RESTAURANT, 2810 SF OFFICE
LOT 1 PATIO – 1379 SF AND 812 SF
LOT 1 ATM – 93 SF
LOT 2 FIRST FLOOR – 15,228 SF
LOT 2 MEZZ – 2,390 SF
LOT 3 BUILDING 3 AND 4 –8,272 SF
LOT 3 PATIO – 175 SF
LOT 3 OPTIONAL BUILDING 5 – 9226 SF
D. EXISTING USE CATEGORY – #4.100 INDOOR MANUFACTURING
E. PROPOSED USE CATEGORY – (SEE PROJECT NARRATIVE FOR COMPLETE BREAKDOWN)
F. DETAILED PARKING (SEE PROJECT NARRATIVE FOR COMPLETE BREAKDOWN)
G. NUMBER OF PHASES – THREE
H. TOTAL PROPOSED IMPERVIOUS SURFACE – 145,000 SF (INCLUDES AN IMPERVIOUS ALLOWANCE)
I. TOTAL EXISTING IMPERVIOUS SURFACE – 106,253 SF
J. PROPOSED BUILDING HEIGHT – 40 FEET
K. TAX MAP REFERENCE NUMBER – 7.100.C.35 PIN NUMBER – 9778-93-0728
L. PROPERTY ADDRESS –501 S. GREENSBORO STREET
M. EXISTING ZONING DISTRICT– MANUFACTURING–1 (M–1)
N. PROPOSED ZONING DISTRICT –MANUFACTURING–3 CU (M–3 CU)

PROPOSED USES (ALL ARE PERMITTED USES, EXCEPT RESTAURANTS):

2.110 SALES –– HIGH VOL – ALL INDOOR
2.120 SALES –– LOW VOL –– ALL INDOOR
2.130 SALES –– WHOLESALE
2.210 SALES –– HIGH VOL –– W/ OUTDOOR DISPLAY
2.220 SALES –– LOW VOL –– W/ OUTDOOR DISPLAY
2.230 SALES –– WHOLESALE –– W/ OUTDOOR DISPLAY
3.110 OFFICE/SVC –– ATTRACT CUSTOMERS
3.120 OFFICE/SVC –– LITTLE/NO CUSTOMER TRAFFIC
3.130 OFFICE/SVC –– DOC/DENTIST >10,000 SQFT
3.150 OFFICE/SVC –– COPY/PRINT
3.210 OFFICE/SVC W/OUTDOOR –– ATTRACT CUSTOMERS
3.220 OFFICE/SVC W/OUTDOOR –– ATTRACT NO/FEW CUSTOMERS
3.250 FREESTANDING ATM
4.100 MANUFACTURING
5.120 TRADE SCHOOL
5.130 ART GALLERY
5.200 CHURCH/SYNAGOGUE/TEMPLE
5.300 LIBRARY/MUSEUM/GALLERY/ART CENTER
5.400 SOCIAL/FRATERNAL CLUB, LODGE, UNION HALL
6.110 RECREATION –– BOWLING/SKATING/TENNIS/SQUASH...
6.121 MOVIE THEATER <300 SEATS6.140 COMMUNITY CENTER
8.100 RESTAURANT
8.200 RESTAURANT –– OUTDOOR SERVICE
8.500 RESTAURANT –– CARRY OUT SERVICE
8.600 RESTAURANT WITH DELIVERY
8.700 FOOD TRUCK
12.100 VET
13.100 POLICE STATION
15.100 POST OFFICE
16.200 DRY CLEANERS/LAUNDRYMAT WITHOUT DRIVETHRU
19.200 HORTICULTURAL SALES W/ OUTDOOR DISPLAY



NOTES:
1. THE APPLICANT SHALL PROVIDE TO THE ZONING DIVISION, PRIOR TO THE RECORDATION OF THE FINAL PLAT FOR THE PROJECT OR BEFORE THE RELEASE OF THE BOND IF SOME FEATURES ARE NOT YET IN PLACE AT THE TIME OF THE RECORDING OF THE FINAL PLAT, MYLAR AND DIGITAL AS–BUILTS FOR THE STORMWATER FEATURES OF THE PROJECT. DIGITAL AS–BUILTS SHALL BE IN DXF FORMAT AND SHALL INCLUDE A BASE MAP OF THE WHOLE PROJECT AND ALL SEPARATE PLAN SHEETS. AS–BUILT DXF FILES SHALL INCLUDE ALL LAYERS OR TABLES CONTAINING STORM DRAINAGE FEATURES. STORM DRAINAGE FEATURES SHALL BE CLEARLY DELINEATED IN A DATA TABLE. THE DATA WILL BE TIED TO HORIZONTAL CONTROLS.
2. THE PROJECT IS SUBJECT TO THE STORMWATER PROVISIONS OF ARTICLE XVI OF THE TOWN OF CARRBORO LAND USE ORDINANCE AND THE APPLICABLE PROVISIONS OF THE STATE GENERAL STATUES.
3. "FIRE LANE STRIPPING WILL BE COORDINATED WITH THE CARRBORO FIRE MARSHALL PRIOR TO THE ISSUANCE OF A CO PER CHAPTER 12 OF THE CARRBOROTOWN CODE."
4. "A 'HARD SURFACE' IS REQUIRED PRIOR TO BUILDING CONSTRUCTION (CONTACT FIRE DEPARTMENT FOR FURTHER INFORMATION."
5. "NO FRAMING MAY BEGIN UNTIL HYDRANTS ARE OPERATIONAL.
6. "AN ALL WEATHER TRAVEL SURFACE MUST BE IN PLACE ON THE ROADWAY PRIOR TO RECEIVING FINAL PLAT APPROVAL AND OR BUILDING PERMITS."
7. "PRIOR TO ISSUANCE OF A CO, A FINAL PLAT, OR THE CERTIFICATION OF A STORMWATER BMP, THE TOWN MAY REQUIRED THAT A PERFORMANCE SECURITY BE POSTED FOR A PERIOD OF TWO (2) YEARS (SECTION 15–263 (I))"
8. "ALL NEW AND RELOCATED UTILITIES SHALL BE PLACED UNDER GROUND PER THE PROVISIONS OF SECTION 15–246 OF THE TOWN OF CARRBORO LAND USE ORDINANCE."
9. ALL LAND USES SOUGHT ON THIS PERMIT ARE SUBJECT TO THE "GOOD NEIGHBOR" PERFORMANCE STANDARDS CONTAINED IN SECTION 15–161 THROUGH 15–169 OF THE TOWN OF CARRBORO LAND USE ORDINANCE. THESE STANDARDS PERTAIN TO VARIOUS OFF–SITE IMPACTS SUCH AS NOISE, ODORS, VIBRATIONS, ETC. SPECIFICALLY ASSOCIATED WITH PARTICULAR LAND USE AS IT OCCUPIES THE BUILDING AND GROUNDS.
10. BUILDING SETBACKS: M–3 CU ZONING DISTRICT: NO PROPERTY LINE BUILDING SETBACKS; 30' MINIMUM BUILDING SETBACK FROM ROAD CENTERLINE.

STORMWATER:
ALL INSTALLED BMP'S (WATER QUALITY AND DETENTION DEVICES) MUST BE CERTIFIED BY THE ENGINEER OF RECORD AS CONSTRUCTED PER THE APPROVED CONSTRUCTION PLANS PRIOR TO ISSUANCE OF THE CERTIFICATE OF OCCUPANCY AND THAT AS–BUILT CONSTRUCTION PLANS WILL BE SUBMITTED TO THE TOWN.

THE NARRATIVE WRITTEN FOR THIS PROJECT IS CONSIDERED TO BE PART OF THE COVER SHEET.

PRELIMINARY PARKING SUMMARY – OPTION A

LOT #	TOTAL PARKING SPACES	TOTAL BIKE SPACES
1	53*	20
2	85*	8
3	42	8
TOTALS	180	34

PRELIMINARY PARKING SUMMARY – OPTION B

LOT #	TOTAL PARKING SPACES	TOTAL BIKE SPACES
1	53*	20
2	85*	8
3	41	6
TOTALS	179	34

* INCLUDES MOTORCYCLE PARKING (8 TOTAL SPACES < 5% OF TOTAL PARKING).

DRAWING LIST

SHEET	DRAWING TITLE
V-1	SITE RENDER
G0001	COVER SHEET
C0100	PHASING PLAN
C0101	EXISTING CONDITIONS & DEMOLITION PLAN
C1001	SITE PLAN - OPTION A
C1002	SITE PLAN - OPTION B
C1003	SITE EASEMENT PLAN
C1101	UTILITY PLAN - OPTION A
C1102	UTILITY PLAN - OPTION B
C1201	GRADING PLAN - OPTION A
C1202	GRADING PLAN - OPTION B
C1203	BYPASS CULVERT PLAN & PROFILE
C1301	EROSION CONTROL PLAN
C3201	TYPICAL ROADWAY SECTIONS
C5001	SITE DETAILS
C5002	SITE DETAILS
C5003	SITE DETAILS
C5101	UTILITY DETAILS
C5102	UTILITY DETAILS
C5103	UTILITY DETAILS
C5201	STORM DRAINAGE DETAILS
C5202	STORM DRAINAGE DETAILS
C5203	STORM DRAINAGE DETAILS
TS01	TREE SHADING PLAN
TS02	TREE SHADING PLAN
A-1.1	BUILDING #1 PLAN
A-2.1	BUILDING #1 SECOND FLOOR PLAN
A-3.1	BUILDING #1 ELEVATIONS
A-4.1	BUILDING #1 ELEVATIONS
A-7.1	BUILDING #1 DUMPSTER SCREEN
A-1.2	BUILDING #2 PLAN
A-3.2	BUILDING #2 ELEVATIONS
A-4.2	BUILDING #2 ELEVATIONS
A-1.2A	BUILDING #2 ALTERNATE PLAN
A-3.2A	BUILDING #2 ALTERNATE ELEVATIONS
A-4.2A	BUILDING #2 ALTERNATE ELEVATIONS
A-1.3	BUILDING #3 PLAN
A-3.3	BUILDING #3 ELEVATIONS
A-4.3	BUILDING #3 ELEVATIONS
A-1.4	BUILDING #4 PLAN
A-3.4	BUILDING #4 ELEVATIONS
A-1.5	BUILDING #5 PLAN & ELEVATIONS
A-2.5	BUILDING #5 ELEVATIONS
A-1.B	BIKE COVER BUILDING PLAN & ELEVATIONS
V-2	VIEW FROM BLDG 1
V-3	VIEW FROM REAR OF SITE
V-4	VIEW FROM NEIGHBORHOOD ABOVE
V-5	AERIAL VIEW FROM FRONT

DRAWING LIST

SHEET	DRAWING TITLE
E1001	LIGHTING - OPTION A
E1002	LIGHTING - OPTION B
E1003	INTERSECTION LIGHTING PLAN
L1001	PLANTING PLAN - OPTION A
L1002	PLANTING PLAN - OPTION B
CV-01	COVER SHEET
GN-01	GENERAL NOTES
GN-02	GENERAL NOTES
TS-01	TYPICAL SECTIONS
DT-01	DRAINAGE STANDARD DRAWINGS
DT-02	DRAINAGE STANDARD DRAWINGS
DT-03	DRAINAGE STANDARD DRAWINGS
RD-01	ROADWAY PLAN SHEET ALIGNMENT
RD-02	ROADWAY PLAN SHEET DETAILS
RD-03	ROADWAY PLAN SHEET, DRAINAGE, ROW & CRITICAL CROSS SECTIONS
PM-01	PAVEMENT MARKING & SIGNING PLAN
PR-01	ROADWAY PROFILE SHEET
PR-02	ROADWAY PROFILE SHEET
PR-03	ROADWAY PROFILE SHEET
XS-01	ROADWAY CROSS SECTION SHEET -Y1-
XS-02	ROADWAY CROSS SECTION SHEET -Y1-
XS-03	ROADWAY CROSS SECTION SHEET -Y2-
XS-04	ROADWAY CROSS SECTION SHEET -Y2-
XS-05	ROADWAY CROSS SECTION SHEET -Y2-
XS-06	ROADWAY CROSS SECTION SHEET -Y3-
XS-07	ROADWAY CROSS SECTION SHEET -Y3-
XS-08	ROADWAY CROSS SECTION SHEET -Y3-
XS-09	ROADWAY CROSS SECTION SHEET -Y4-
XS-10	ROADWAY CROSS SECTION SHEET -Y4-
XS-11	ROADWAY CROSS SECTION SHEET -Y4-
TC-01	TRAFFIC CONTROL PLANS GENERAL NOTES
TC-02	TRAFFIC CONTROL PLANS PHASE ONE
TC-03	TRAFFIC CONTROL PLANS PHASE TWO
TC-04	TRAFFIC CONTROL PLANS PHASE THREE
TC-05	TRAFFIC CONTROL PLANS PHASE FOUR
AT-01	TURNING MOVEMENTS WB-62
AT-02	TURNING MOVEMENTS CITY-BUS

LIGHTING:
VISIONAIRE LIGHTING
Performance In A Whole New Light
19645 RANCHO WAY
RANCHO DOMIGUEZ, C.A. 90220
(310) 512–6480
FAX (310) 512–6486

TRAFFIC ENGINEERING:
DAVENPORT
305 WEST FOURTH STREET, SUITE 2A
WINSTON–SALEM, N.C. 27101
(336) 744–1636
FAX (336) 458–9377

SITE PLANNING / CIVIL ENGINEERING:
BALLENTINE ASSOCIATES, P.A
221 PROVIDENCE ROAD, CHAPEL HILL, N.C. 27514
(919) 929 – 0481 (919) 489 – 4789

ARCHITECT:
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APEX, N.C. 27502
(919) 387–0010
FAX (919) 387–0690

SURVEYOR:
FREEHOLD LAND SURVEYORS
2321 BLUE RIDGE ROAD, SUITE 201
RALEIGH, N.C. 27607
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FAX (919) 786–0199

REVIEW DRAWING NOT FOR CONSTRUCTION

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Ballentine Associates, P.A. CORPORATE SEAL C328 NORTH CAROLINA Chapel Hill

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 29127 GEORGE J. RESCOE

NUM	REVISIONS	DATE
1	PER TOWN OF CARRBORO COMMENTS	14 JAN 15
2	PER FINAL TOWN OF CARRBORO COMMENTS	19 MAR 15

OWNER INFORMATION
WOODHILL NC, LLC
P.O. BOX 4022
CHAPEL HILL, NC 27515

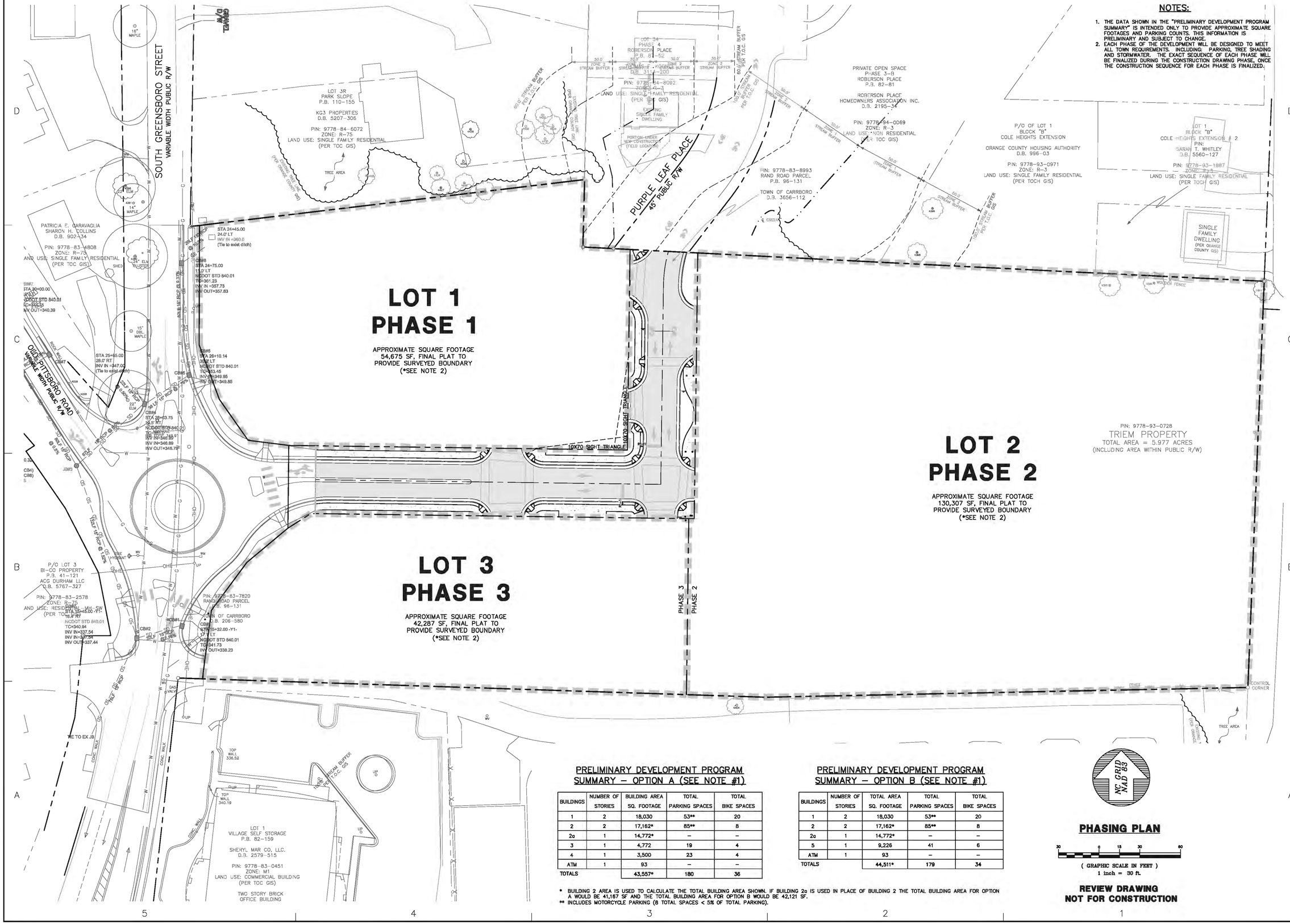
OWNERS REPRESENTATIVE:
RUNYON WOODS
PH: (919) 418–2121
FAX
EMAIL runyonwoods@emoll.com

ISSUED	DATE
CUP SUBMITTAL #4	21 NOV 14
CUP SUBMITTAL #5	14 JAN 15
FINAL CUP SUBMITTAL	19 MAR 15

SOUTH GREEN (TRIEM)
CARRBORO, NORTH CAROLINA
CONDITIONAL USE PERMIT

JOB NUMBER: 114023.00
DATE: 21 NOV 2014
SCALE: AS NOTED
DRAWN BY: S.R.M.
REVIEWED BY: G.J.R.

SHEET
G0001



NOTES:

1. THE DATA SHOWN IN THE "PRELIMINARY DEVELOPMENT PROGRAM SUMMARY" IS INTENDED ONLY TO PROVIDE APPROXIMATE SQUARE FOOTAGES AND PARKING COUNTS. THIS INFORMATION IS PRELIMINARY AND SUBJECT TO CHANGE.
2. EACH PHASE OF THE DEVELOPMENT WILL BE DESIGNED TO MEET ALL TOWN REQUIREMENTS. INCLUDING: PARKING, TREE SHADING AND STORMWATER. THE EXACT SEQUENCE OF EACH PHASE WILL BE FINALIZED DURING THE CONSTRUCTION DRAWING PHASE. ONCE THE CONSTRUCTION SEQUENCE FOR EACH PHASE IS FINALIZED.

PRELIMINARY DEVELOPMENT PROGRAM SUMMARY – OPTION A (SEE NOTE #1)

BUILDINGS	NUMBER OF STORIES	BUILDING AREA SQ. FOOTAGE	TOTAL PARKING SPACES	TOTAL BIKE SPACES
1	2	18,030	53**	20
2	2	17,162*	85**	8
2a	1	14,772*	–	–
3	1	4,772	19	4
4	1	3,500	23	4
ATM	1	93	–	–
TOTALS		43,557*	180	36

PRELIMINARY DEVELOPMENT PROGRAM SUMMARY – OPTION B (SEE NOTE #1)

BUILDINGS	NUMBER OF STORIES	TOTAL AREA SQ. FOOTAGE	TOTAL PARKING SPACES	TOTAL BIKE SPACES
1	2	18,030	53**	20
2	2	17,162*	85**	8
2a	1	14,772*	–	–
5	1	9,226	41	6
ATM	1	93	–	–
TOTALS		44,511*	179	34

* BUILDING 2 AREA IS USED TO CALCULATE THE TOTAL BUILDING AREA SHOWN. IF BUILDING 2a IS USED IN PLACE OF BUILDING 2 THE TOTAL BUILDING AREA FOR OPTION A WOULD BE 41,167 SF AND THE TOTAL BUILDING AREA FOR OPTION B WOULD BE 42,121 SF.
** INCLUDES MOTORCYCLE PARKING (8 TOTAL SPACES < 5% OF TOTAL PARKING).

PHASING PLAN

(GRAPHIC SCALE IN FEET)
1 inch = 30 ft.

REVIEW DRAWING
NOT FOR CONSTRUCTION

BALLENTINE ASSOCIATES, P.A.
211 E. PARRISH STREET, DURHAM, N.C. 27701
(919) 682-0368 FAX (919) 682-0369

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NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 29127 GEORGE J. RESCHE

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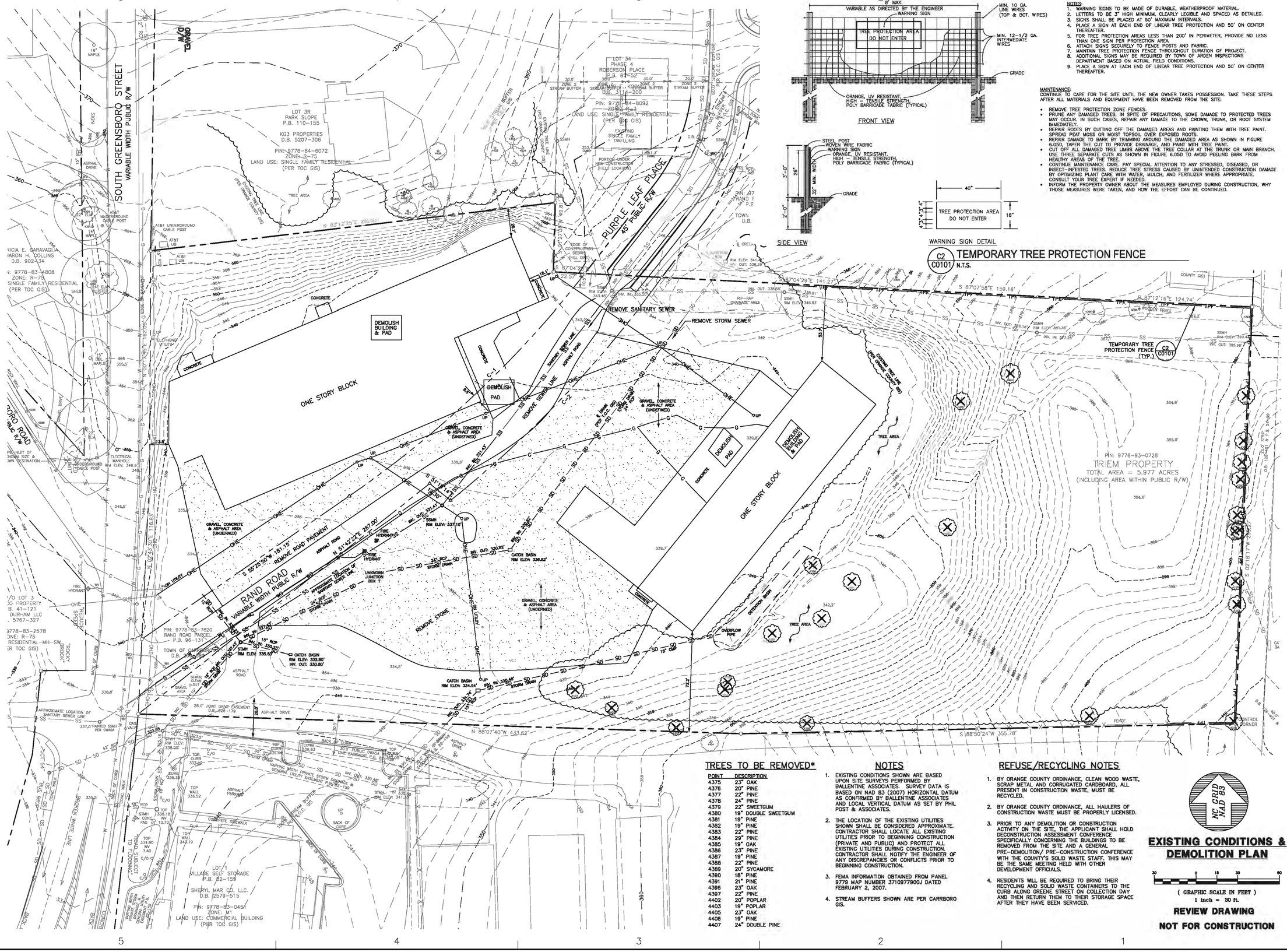

POINT	DESCRIPTION
4375	23" OAK
4376	20" PINE
4377	22" PINE
4378	24" PINE
4379	22" SWEETGUM
4380	19" DOUBLE SWEETGUM
4381	19" PINE
4382	19" PINE
4383	22" PINE
4384	29" PINE
4385	19" OAK
4386	23" PINE
4387	19" PINE
4388	22" PINE
4389	20" SYCAMORE
4390	18" PINE
4391	21" PINE
4396	23" OAK
4397	22" PINE
4402	20" POPLAR
4403	19" POPLAR
4405	23" OAK
4406	19" PINE
4407	24" DOUBLE PINE

1. EXISTING CONDITIONS SHOWN ARE BASED UPON SITE SURVEYS PERFORMED BY BALLENTINE ASSOCIATES. SURVEY DATA IS BASED ON NAD 83 (2007) HORIZONTAL DATUM AS CONFIRMED BY BALLENTINE ASSOCIATES AND LOCAL VERTICAL DATUM AS SET BY PHIL POST & ASSOCIATES.
2. THE LOCATION OF THE EXISTING UTILITIES SHOWN SHALL BE CONSIDERED APPROXIMATE. CONTRACTOR SHALL LOCATE ALL EXISTING UTILITIES PRIOR TO BEGINNING CONSTRUCTION (PRIVATE AND PUBLIC) AND PROTECT ALL EXISTING UTILITIES DURING CONSTRUCTION. CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES OR CONFLICTS PRIOR TO BEGINNING CONSTRUCTION.
3. FEMA INFORMATION OBTAINED FROM PANEL 9779 MAP NUMBER 3710977900J DATED FEBRUARY 2, 2007.
4. STREAM BUFFERS SHOWN ARE PER CARRBORO GIS.

1. BY ORANGE COUNTY ORDINANCE, CLEAN WOOD WASTE, SCRAP METAL AND CORRUGATED CARDBOARD, ALL PRESENT IN CONSTRUCTION WASTE, MUST BE RECYCLED.
2. BY ORANGE COUNTY ORDINANCE, ALL HAULERS OF CONSTRUCTION WASTE MUST BE PROPERLY LICENSED.
3. PRIOR TO ANY DEMOLITION OR CONSTRUCTION ACTIVITY ON THE SITE, THE APPLICANT SHALL HOLD DECONSTRUCTION ASSESSMENT CONFERENCE SPECIFICALLY CONCERNING THE BUILDINGS TO BE REMOVED FROM THE SITE AND A GENERAL PRE-DEMOLITION/ PRE-CONSTRUCTION CONFERENCE WITH THE COUNTY'S SOLID WASTE STAFF. THIS MAY BE THE SAME MEETING HELD WITH OTHER DEVELOPMENT OFFICIALS.
4. RESIDENTS WILL BE REQUIRED TO BRING THEIR RECYCLING AND SOLID WASTE CONTAINERS TO THE CURB ALONG GREENE STREET ON COLLECTION DAY AND THEN RETURN THEM TO THEIR STORAGE SPACE AFTER THEY HAVE BEEN SERVICED.

NOTES:
1. WARNING SIGNS TO BE MADE OF DURABLE, WEATHERPROOF MATERIAL.
2. LETTERS TO BE 3" HIGH MINIMUM, CLEARLY LEGIBLE AND SPACED AS DETAILED.
3. SIGNS SHALL BE PLACED AT 50' MAXIMUM INTERVALS.
4. PLACE A SIGN AT EACH END OF LINEAR TREE PROTECTION AND 50' ON CENTER THEREAFTER.
5. FOR TREE PROTECTION AREAS LESS THAN 200' IN PERIMETER, PROVIDE NO LESS THAN ONE SIGN PER PROTECTION AREA.
6. ATTACH SIGNS SECURELY TO FENCE POSTS AND FABRIC.
7. MAINTAIN TREE PROTECTION FENCE THROUGHOUT DURATION OF PROJECT.
8. ADDITIONAL SIGNS MAY BE REQUIRED BY TOWN OF ARDEN INSPECTIONS DEPARTMENT BASED ON ACTUAL FIELD CONDITIONS.
9. PLACE A SIGN AT EACH END OF LINEAR TREE PROTECTION AND 50' ON CENTER THEREAFTER.

MAINTENANCE:
CONTINUE TO CARE FOR THE SITE UNTIL THE NEW OWNER TAKES POSSESSION. TAKE THESE STEPS AFTER ALL MATERIALS AND EQUIPMENT HAVE BEEN REMOVED FROM THE SITE:

- REMOVE TREE PROTECTION ZONE FENCES.
- PRUNE ANY DAMAGED TREES. IN SPITE OF PRECAUTIONS, SOME DAMAGE TO PROTECTED TREES MAY OCCUR. IN SUCH CASES, REPAIR ANY DAMAGE TO THE CROWN, TRUNK, OR ROOT SYSTEM IMMEDIATELY.
- REPAIR ROOTS BY CUTTING OFF THE DAMAGED AREAS AND PAINTING THEM WITH TREE PAINT. SPREAD PEAT MOSS OR MOIST TOPSOIL OVER EXPOSED ROOTS.
- REPAIR DAMAGE TO BARK BY TRIMMING AROUND THE DAMAGED AREA AS SHOWN IN FIGURE 6.05D, TAPER THE CUT TO PROVIDE DRAINAGE, AND PAINT WITH TREE PAINT.
- CUT OFF ALL DAMAGED TREE LIMBS ABOVE THE TREE COLLAR AT THE TRUNK OR MAIN BRANCH. USE THREE SEPARATE CUTS AS SHOWN IN FIGURE 6.05D TO AVOID PEELING BARK FROM HEALTHY AREAS OF THE TREE.
- CONTINUE MAINTENANCE CARE. PAY SPECIAL ATTENTION TO ANY STRESSED, DISEASED, OR INSECT-INFESTED TREES. REDUCE TREE STRESS CAUSED BY UNINTENDED CONSTRUCTION DAMAGE BY OPTIMIZING PLANT CARE WITH WATER, MULCH, AND FERTILIZER WHERE APPROPRIATE. CONSULT YOUR TREE EXPERT IF NEEDED.
- INFORM THE PROPERTY OWNER ABOUT THE MEASURES EMPLOYED DURING CONSTRUCTION, WHY THOSE MEASURES WERE TAKEN, AND HOW THE EFFORT CAN BE CONTINUED.

C2 C0101 TEMPORARY TREE PROTECTION FENCE N.T.S.

BALLENTINE ASSOCIATES, P.A.
204 NORTH GREENSBORO STREET, CARRBORO, NC 27510
(919) 929-0468 CHAPEL HILL (919) 489-4793

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NORTH CAROLINA PROFESSIONAL SEAL 29127 ENGINEER GEORGE J. RESCOLE

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EMAIL runyonwoods@gmail.com

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CARRBORO, NORTH CAROLINA

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REVIEWED BY: G.J.R.

SHEET
C0101

REFUSE/RECYCLING NOTES

1. BY ORANGE COUNTY ORDINANCE, CLEAN WOOD WASTE, SCRAP METAL AND CORRUGATED CARDBOARD, ALL PRESENT IN CONSTRUCTION WASTE, MUST BE RECYCLED.
2. BY ORANGE COUNTY ORDINANCE, ALL HAULERS OF CONSTRUCTION WASTE MUST BE PROPERLY LICENSED.
3. PRIOR TO ANY DEMOLITION OR CONSTRUCTION ACTIVITY ON THE SITE, THE APPLICANT SHALL HOLD DECONSTRUCTION ASSESSMENT CONFERENCE SPECIFICALLY CONCERNING THE BUILDINGS TO BE REMOVED FROM THE SITE AND A GENERAL PRE-DEMOLITION/ PRE-CONSTRUCTION CONFERENCE WITH THE COUNTY'S SOLID WASTE STAFF. THIS MAY BE THE SAME MEETING HELD WITH OTHER DEVELOPMENT OFFICIALS.
4. RESIDENTS WILL BE REQUIRED TO BRING THEIR RECYCLING AND SOLID WASTE CONTAINERS TO THE CURB ALONG GREENE STREET ON COLLECTION DAY AND THEN RETURN THEM TO THEIR STORAGE SPACE AFTER THEY HAVE BEEN SERVICED.

PLAN KEY NOTES

DETAIL REFERENCE	#	
C5 C5002	1A	5' WIDE CONCRETE SIDEWALK (TYP.)
	1B	10' WIDE CONCRETE MULTI-USE PATH (TYP.)
D1 C5002	2	30" CONCRETE CURB AND GUTTER (TYP)
A3 C5002	3	WHEEL CHAIR / ACCESSIBLE RAMP (TYP)
A1 C5002	4	PAINTED ACCESSIBILITY SPACE AND AISLE
A3 C5003	5	PAVEMENT MARKINGS TRAFFIC ARROWS & SHARROW (TYP.)
A3 C5003	6	PAVEMENT MARKINGS STANDARD 8" CROSSWALK LINE (TYP.)
B2 C5001	7	BIKE RACK
C3 C5001	8	HANDICAP PARKING SIGN (TYP.)
C1 C5001	9	MUTCD R1-1 STOP SIGN (TYP.)
A5 C5003	10	RETAINING WALL (TYP.) WITH VINYEL COATED CHAIN LINK FENCE
A2 C5001	11	CARDBOARD, MSW, AND RECYCLING ENCLOSURE
B4 C5001	12	6" PIPE BOLLARD (TYP.)
A3 C5003	13	PAVEMENT MARKINGS 24" WIDE STOP BAR (TYP.)
C1 C5002	14	STANDARD DUTY ASPHALT PAVEMENT (TYP.)
C1 C5002	15	HEAVY DUTY ASPHALT PAVEMENT (TYP.)
D5 C5001	16	PERMEABLE INTERLOCKING CONCRETE PAVERS (PICP)
D4 C5001	17	6' WIDE CONCRETE BAND (TYP.)
D4 C5001	18	CONCRETE WHEEL STOP (TYP.)
	19	CAUTION VEHICULAR TRAFFIC AHEAD SIGN
	20	SOUTH GREENSBORO BIKE PATH SIGN
	21	15 MPH SPEED LIMIT SIGN
	22	ROOF OVERHANG AND PIERS (SEE ARCHITECTURAL PLANS)

PAVING LEGEND

- HEAVY DUTY ASPHALT PAVEMENT
- STANDARD DUTY ASPHALT PAVEMENT
- PERMEABLE INTERLOCKING CONCRETE PAVERS (PICP)
- CONCRETE

DRAWING LEGEND

SYMBOL/ABBREVIATION EXISTING	PROPOSED	DESCRIPTION
		PROPERTY LINE
—— x ——		FENCE LINE
		BUILDING SETBACK LINE
		VAN ACCESSIBLE PARKING SPACE WITH ADJOINING ACCESSIBLE AISLE
		SIGN
		TRAFFIC FLOW ARROW

NC GRID NAD 83

SITE PLAN - OPTION A

30 0 15 30 60

(GRAPHIC SCALE IN FEET)
1 inch = 30 ft.

REVIEW DRAWING NOT FOR CONSTRUCTION

TOWN OF CARRBORO ZONING DISTRICT
M1 - "LIGHT MANUFACTURING"
(USE CATEGORY: INDUSTRIAL)
- NO PROPERTY LINE BUILDING SETBACKS.
- 30' MINIMUM BUILDING SETBACK FROM CENTERLINE ROAD.

NOTE'S:
- ALL ADJOINING BUILDINGS ARE SCALED FROM THE ORANGE COUNTY GIS, UNLESS OTHERWISE NOTED.
- STREAM BUFFERS & E DRAIN ARE SCALED FROM THE TOWN OF CARRBORO GIS.
- THERE IS NO FEMA FLOOD ZONE ON SUBJECT PROPERTY.

BALLENTINE ASSOCIATES, P.A.
ENGINEERING SURVEYING PLANNING
2006 HILLSBOROUGH ROAD CHAPEL HILL, N.C. 27514
(919) 929 - 0481 (919) 968 - 4769

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Ballentine Associates, P.A. CORPORATE SEAL C328 NORTH CAROLINA Chapel Hill

NORTH CAROLINA PROFESSIONAL SEAL 29127 ENGINEER GEORGE J. RESCHE

REVISIONS		DATE
1	PER TOWN OF CARRBORO COMMENTS	14 JAN 15
2	PER FINAL TOWN OF CARRBORO COMMENTS	19 MAR 15

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CUP SUBMITTAL #4	21 NOV 14
CUP SUBMITTAL #5	14 JAN 15
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OWNER INFORMATION
WOODHILL NC, LLC
P.O. BOX 4022
CHAPEL HILL, NC 27515

OWNERS REPRESENTATIVE:
RUNYON WOODS
PH: (919) 418-2121
FAX:
EMAIL: runyonwoods@gmail.com

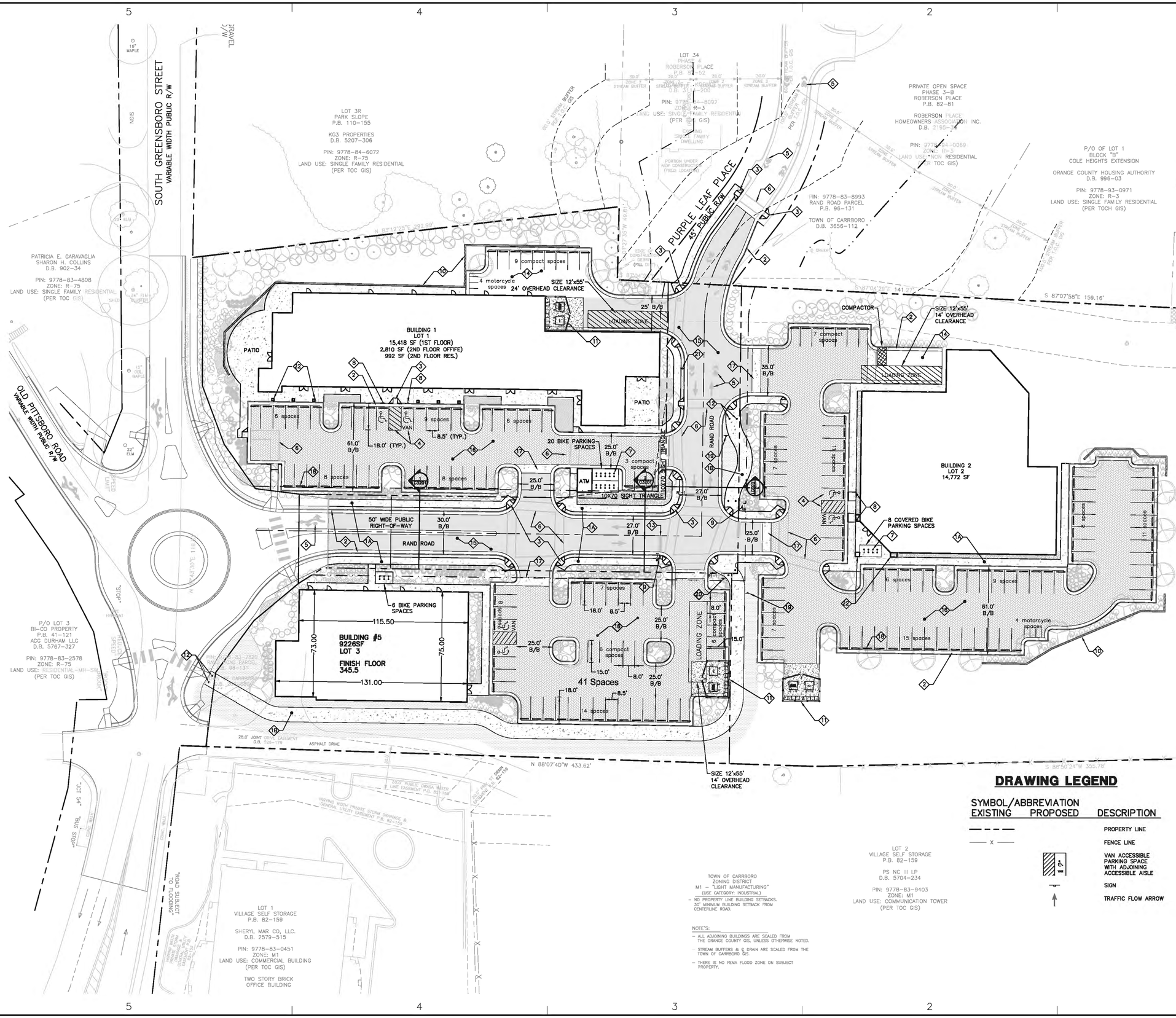
SOUTH GREEN (TRIEM)

CARRBORO, NORTH CAROLINA

CONDITIONAL USE PERMIT

JOB NUMBER: 114023.00
DATE: 21 NOV 2014
SCALE: AS NOTED
DRAWN BY: S.R.M.
REVIEWED BY: G.J.R.

SHEET
C1001



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A3 C5003	5	PAVEMENT MARKINGS TRAFFIC ARROWS (TYP.)
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C3 C5001	8	HANDICAP PARKING SIGN (TYP.)
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- HEAVY DUTY ASPHALT PAVEMENT
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- PERMEABLE INTERLOCKING CONCRETE PAVERS (PICP)
- CONCRETE

DRAWING LEGEND

SYMBOL/ABBREVIATION EXISTING	PROPOSED	DESCRIPTION
		PROPERTY LINE
—— x ——		FENCE LINE
		VAN ACCESSIBLE PARKING SPACE WITH ADJOINING ACCESSIBLE AISLE
		SIGN
		TRAFFIC FLOW ARROW

NC GRID NAD 83

SITE PLAN - OPTION B

30 0 15 30 60

(GRAPHIC SCALE IN FEET)
1 inch = 30 ft.

REVIEW DRAWING NOT FOR CONSTRUCTION

BALLENTINE ASSOCIATES, P.A.
211 E. ROSEMARY STREET, CHAPEL HILL, N.C. 27514
(919) 929 - 0481 (919) 942 - 4769
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Ballentine Associates, P.A. CORPORATE SEAL C328 NORTH CAROLINA Chapel Hill

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 29127 GEORGE J. RESOLE

ISSUE	DATE	REVISIONS
A	14 JAN 15	PER TOWN OF CARRBORO COMMENTS
B	19 MAR 15	PER FINAL TOWN OF CARRBORO COMMENTS

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WOODHILL NC, LLC
P.O. BOX 4022
CHAPEL HILL, NC 27515

OWNERS REPRESENTATIVE:
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SOUTH GREEN (TRIEM)
CARRBORO, NORTH CAROLINA
CONDITIONAL USE PERMIT

JOB NUMBER: 114023.00
DATE: 21 NOV 2014
SCALE: AS NOTED
DRAWN BY: S.R.M.
REVIEWED BY: G.J.R.

SHEET
C1002

SOUTH GREENSBORO STREET
VARIABLE WIDTH PUBLIC R/W

OLD PITTSBORO ROAD
VARIABLE WIDTH PUBLIC R/W

PURPLE LEAF PLACE
45' PUBLIC R/W

LOT 3R
PARK SLOPE
P.B. 110-155

KG3 PROPERTIES
D.B. 5207-306

PIN: 9778-84-6072
ZONE: R-75
LAND USE: SINGLE FAMILY RESIDENTIAL
(PER TOC GIS)

LOT 34
PHASE 3-A
ROBERSON PLACE
P.B. 82-152

D.B. 3114-200

PIN: 9778-84-8092
ZONE: R-3
LAND USE: SINGLE FAMILY RESIDENTIAL
(PER TOC GIS)

EXISTING SINGLE FAMILY DWELLING

PRIVATE OPEN SPACE
PHASE 3-B
ROBERSON PLACE
P.B. 82-81

ROBERSON PLACE HOMEOWNERS ASSOCIATION INC.
D.B. 7165-347

PIN: 9778-84-0063
ZONE: R-3
LAND USE: NON RESIDENTIAL
(PER TOC GIS)

P/O OF LOT 1
BLOCK "B"
COLE HEIGHTS EXTENSION

ORANGE COUNTY HOUSING AUTHORITY
D.B. 996-03

PIN: 9778-93-0971
ZONE: R-3
LAND USE: SINGLE FAMILY RESIDENTIAL
(PER TOC GIS)

PATRICIA E. GARAVAGLIA
SHARON H. COLLINS
D.B. 902-34

PIN: 9778-83-4808
ZONE: R-75
LAND USE: SINGLE FAMILY RESIDENTIAL
(PER TOC GIS)

P/O LOT 3
BI-CO PROPERTY
P.B. 41-121
ACG DURHAM LLC
D.B. 5767-327

PIN: 9778-83-2578
ZONE: R-75
LAND USE: RESIDENTIAL-MULTI-SYS
(PER TOC GIS)

PIN: 9778-83-8993
(LAND TRAB PARCEL)
P.B. 96-131

TOWN OF CARRBORO
D.B. 3656-112

LOT 1
VILLAGE SELF STORAGE
P.B. 82-159

SHERYL MAR CO, LLC.
D.B. 2579-515

PIN: 9778-83-0451
ZONE: M1
LAND USE: COMMERCIAL BUILDING
(PER TOC GIS)

TWO STORY BRICK
OFFICE BUILDING

20' WIDE PRIVATE STORM EASEMENT

30' WIDE PUBLIC OWASA WATER EASEMENT

60' TEMPORARY CONSTRUCTION EASEMENT

30' PERMANENT ACCESS AND STORMWATER MAINTENANCE EASEMENT

EXISTING VARYING WIDTH STORM EASEMENT

VARIABLE WIDTH PRIVATE STORMWATER AND MAINTENANCE AREA COINCIDES WITH LIMIT OF STONE BENEATH PERMEABLE PAVEMENT SYSTEM (TYP.)

9 compact spaces

4 motorcycle spaces

LOADING ZONE

N 83°12'25"E 292.99'

S 87°04'21"E 49.81'

N 11°27'35"W 49.81'

S 87°07'58"E 14.27'

S 87°07'58"E 159.16'

N 88°07'40"W 433.62'

S 88°03'24"W 655.78'

STA 24+45.00
24.0' LT
INV IN=360.0
(Tie to exist ditch)

STA 25+75.00
10' LT
NCDOT STD 840.01
TC=346.36
INV IN=340.76
INV OUT=340.46

CB#7
STA 30+00.00
10' RT
NCDOT STD 840.01
TC=344.15
INV OUT=340.39

CB#6
STA 30+00.00
10' RT
NCDOT STD 840.01
TC=343.65
INV IN=340.15
INV OUT=340.05

STA 25+65.00
28.0' RT
INV IN =347.00
(Tie to exist ditch)

CB#4
STA 28+03.75
16.5' RT
NCDOT STD 840.01
TC=350.0
INV IN=346.89
INV IN=346.89
INV OUT=346.79

JDM5 w/MH
STA 30+80.00
16.0' RT
NCDOT STD 840.32
TC=348.85
INV IN=342.77 (CB4)
INV IN=339.85 (CB6)
INV OUT=339.55

CB#1
STA 33+00.00
17.0' LT
NCDOT STD 840.01
TC=338.75
INV OUT=336.25

CB#2
STA 32+48.00
21.0' RT
16.0' RT
NCDOT STD 840.01
TC=340.94
INV IN=337.54
INV IN=337.54
INV OUT=337.44

"STOP"

"ROAD SUBJECT TO FLOODING"

NOTES:

1. EASEMENT PLAN SHOWN IS FOR OPTION A.

TOWN OF CARRBORO
ZONING DISTRICT
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PAVING LEGEND

- HEAVY DUTY ASPHALT PAVEMENT
- STANDARD DUTY ASPHALT PAVEMENT
- PERMEABLE INTERLOCKING CONCRETE PAVERS (PICP)
- CONCRETE
- RIP-RAP INLET PROTECTION

NC GRID NAD 83

SITE EASEMENT PLAN

30 0 15 30 60

(GRAPHIC SCALE IN FEET)
1 inch = 30 ft.

REVIEW DRAWING NOT FOR CONSTRUCTION

BALLENTINE ASSOCIATES, P.A.
211 PROVIDENCE ROAD, CHAPEL HILL, N.C. 27514
(919) 929 - 0481 (919) 149 - 4788

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NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 29127 GEORGE J. RESOLE

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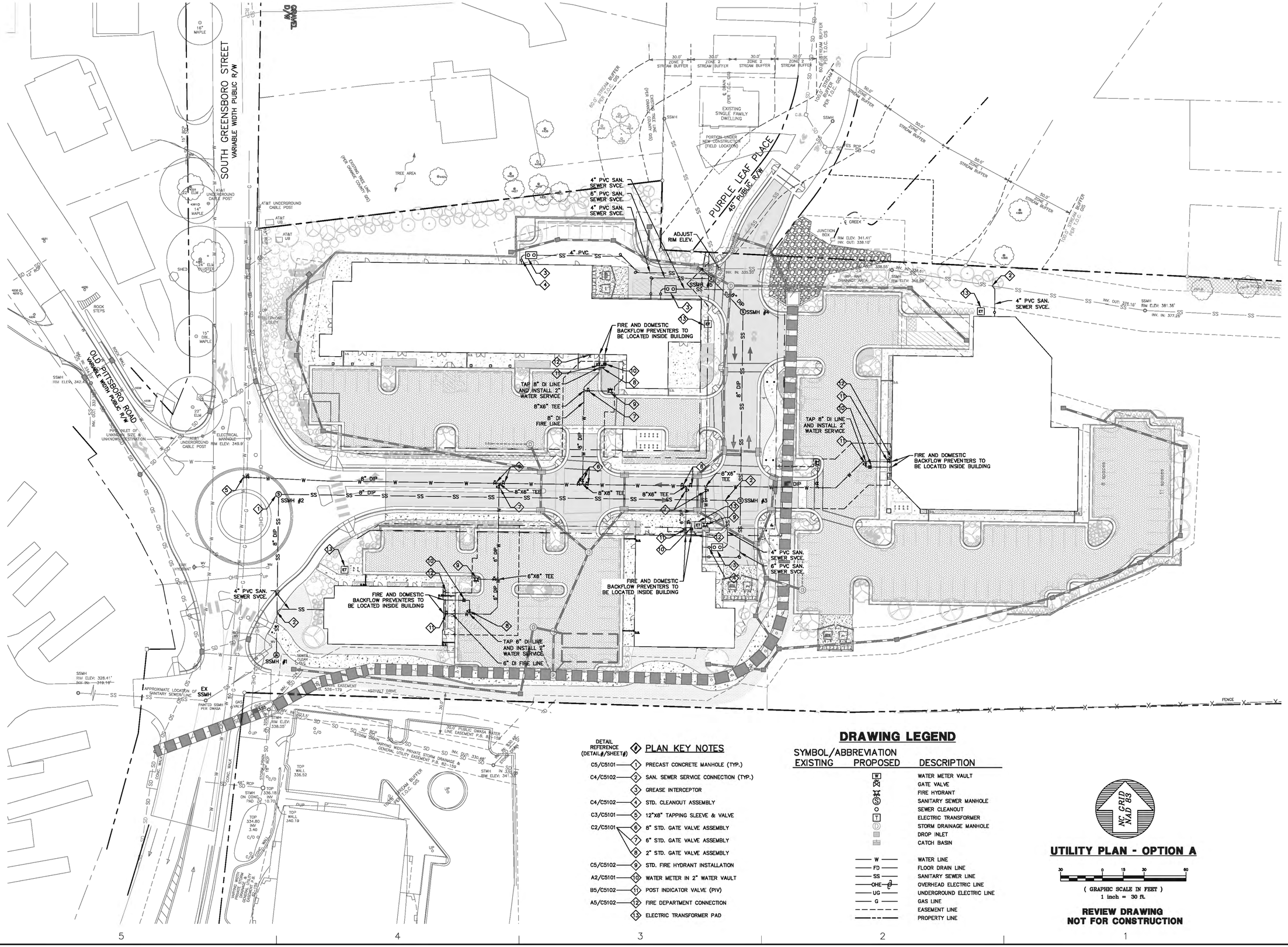
SOUTH GREEN (TRIEM)

CARRBORO, NORTH CAROLINA

CONDITIONAL USE PERMIT

JOB NUMBER: 114023.00
DATE: 21 NOV 2014
SCALE: AS NOTED
DRAWN BY: S.R.M.
REVIEWED BY: G.J.R.

SHEET
C1003



DETAIL REFERENCE (DETAIL#/SHEET#)	#	PLAN KEY NOTES
C5/C5101	1	PRECAST CONCRETE MANHOLE (TYP.)
C4/C5102	2	SAN. SEWER SERVICE CONNECTION (TYP.)
	3	GREASE INTERCEPTOR
C4/C5102	4	STD. CLEANOUT ASSEMBLY
C3/C5101	5	12"X8" TAPPING SLEEVE & VALVE
C2/C5101	6	8" STD. GATE VALVE ASSEMBLY
	7	6" STD. GATE VALVE ASSEMBLY
	8	2" STD. GATE VALVE ASSEMBLY
C5/C5102	9	STD. FIRE HYDRANT INSTALLATION
A2/C5101	10	WATER METER IN 2" WATER VAULT
B5/C5102	11	POST INDICATOR VALVE (PIV)
A5/C5102	12	FIRE DEPARTMENT CONNECTION
	13	ELECTRIC TRANSFORMER PAD

DRAWING LEGEND

SYMBOL/ABBREVIATION EXISTING	PROPOSED	DESCRIPTION
	W	WATER METER VAULT
		GATE VALVE
		FIRE HYDRANT
		SANITARY SEWER MANHOLE
		SEWER CLEANOUT
	T	ELECTRIC TRANSFORMER
		STORM DRAINAGE MANHOLE
		DROP INLET
		CATCH BASIN
W		WATER LINE
FD		FLOOR DRAIN LINE
SS		SANITARY SEWER LINE
OHE		OVERHEAD ELECTRIC LINE
UG		UNDERGROUND ELECTRIC LINE
G		GAS LINE
		EASEMENT LINE
		PROPERTY LINE

NC GRID NAD 83

UTILITY PLAN - OPTION A

30 0 15 30 60

(GRAPHIC SCALE IN FEET)
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SOUTH GREEN (TRIEM)

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SCALE: AS NOTED
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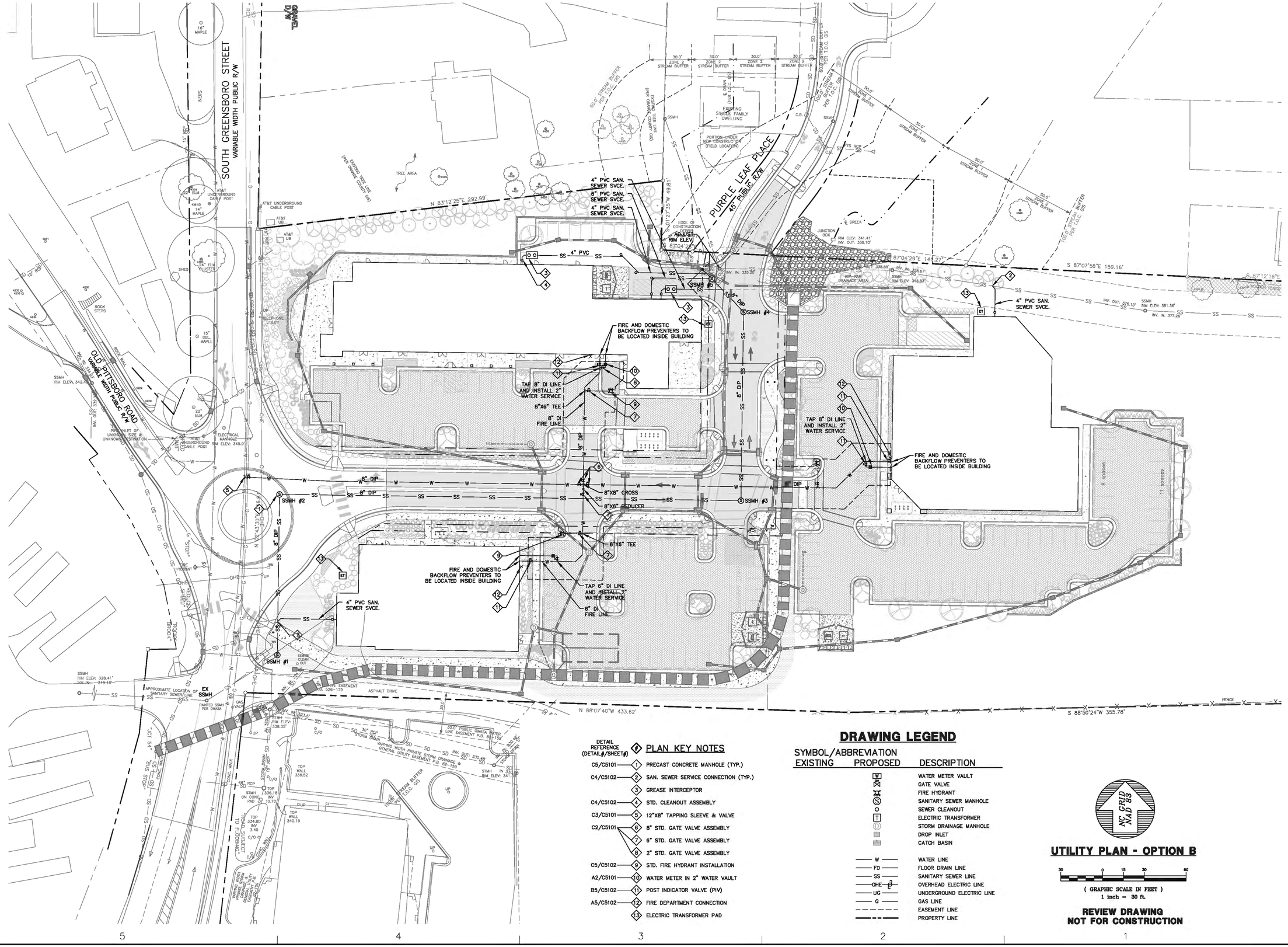
SHEET
C1101



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DRAWING LEGEND

SYMBOL/ABBREVIATION EXISTING	PROPOSED	DESCRIPTION
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		GATE VALVE
		FIRE HYDRANT
		SANITARY SEWER MANHOLE
		SEWER CLEANOUT
	T	ELECTRIC TRANSFORMER
		STORM DRAINAGE MANHOLE
		DROP INLET
		CATCH BASIN
W	W	WATER LINE
FD	FD	FLOOR DRAIN LINE
SS	SS	SANITARY SEWER LINE
OHE	OHE	OVERHEAD ELECTRIC LINE
UG	UG	UNDERGROUND ELECTRIC LINE
G	G	GAS LINE
		EASEMENT LINE
		PROPERTY LINE

NC GRID NAD 83

UTILITY PLAN - OPTION B

30 0 15 30 60

(GRAPHIC SCALE IN FEET)
1 inch = 30 ft.

REVIEW DRAWING NOT FOR CONSTRUCTION

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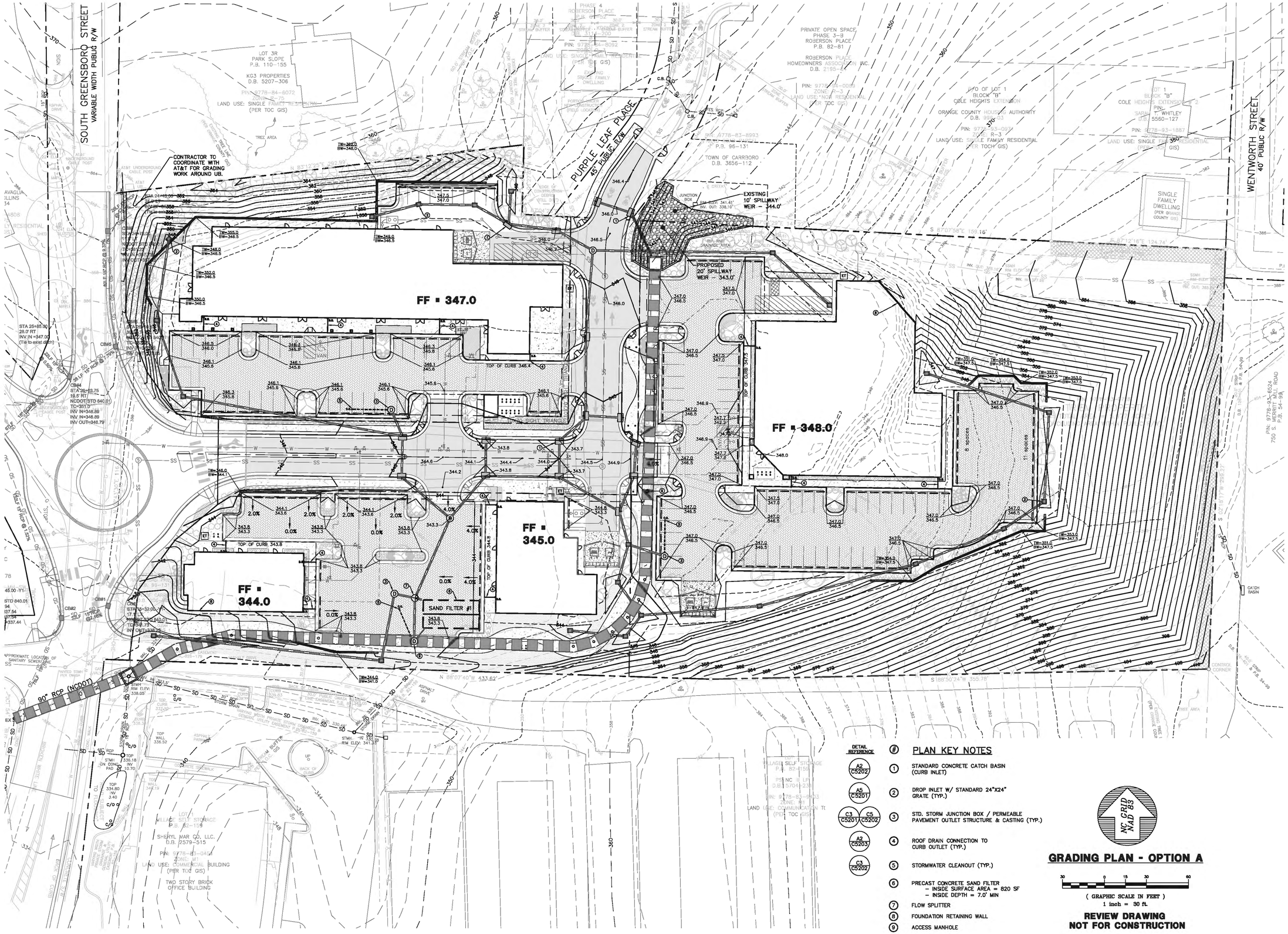
REVIEWED BY: G.J.R.

SHEET
C1102



DETAIL REFERENCE	#	PLAN KEY NOTES
A2 / C5202	1	STANDARD CONCRETE CATCH BASIN (CURB INLET)
A5 / C5201	2	DROP INLET W/ STANDARD 24"X24" GRATE (TYP.)
C3 / C5201 + C5 / C5202	3	STD. STORM JUNCTION BOX / PERMEABLE PAVEMENT OUTLET STRUCTURE & CASTING (TYP.)
A2 / C5203	4	ROOF DRAIN CONNECTION TO CURB OUTLET (TYP.)
C3 / C5202	5	STORMWATER CLEANOUT (TYP.)
	6	PRECAST CONCRETE SAND FILTER – INSIDE SURFACE AREA = 820 SF – INSIDE DEPTH = 7.0' MIN
	7	FLOW SPLITTER
	8	FOUNDATION RETAINING WALL
	9	ACCESS MANHOLE

NC GRID NAD 83

GRADING PLAN - OPTION A

30 0 15 30 60

(GRAPHIC SCALE IN FEET)

1 inch = 30 ft.

REVIEW DRAWING NOT FOR CONSTRUCTION

BALLENTINE ASSOCIATES, P.A.
811 KENILWORTH AVENUE, CHARLOTTE, N.C. 28204
(704) 489 - 4799
(919) 929 - 0486

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Ballentine Associates, P.A. CORPORATE SEAL C328 NORTH CAROLINA Chapel Hill

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 29127 GEORGE J. RESOLE

NUM	REVISIONS	DATE
1	PER TOWN OF CARRBORO COMMENTS	14 JAN 15
2	PER FINAL TOWN OF CARRBORO COMMENTS	19 MAR 15

OWNER INFORMATION
WOODHILL NC, LLC
P.O. BOX 4022
CHAPEL HILL, NC 27515

OWNERS REPRESENTATIVE:
RUNYON WOODS
PH. (919) 418-2121
FAX
EMAIL runyonwoods@gmail.com

ISSUED	DATE
CUP SUBMITTAL #4	21 NOV 14
CUP SUBMITTAL #5	14 JAN 15
FINAL CUP SUBMITTAL	19 MAR 15

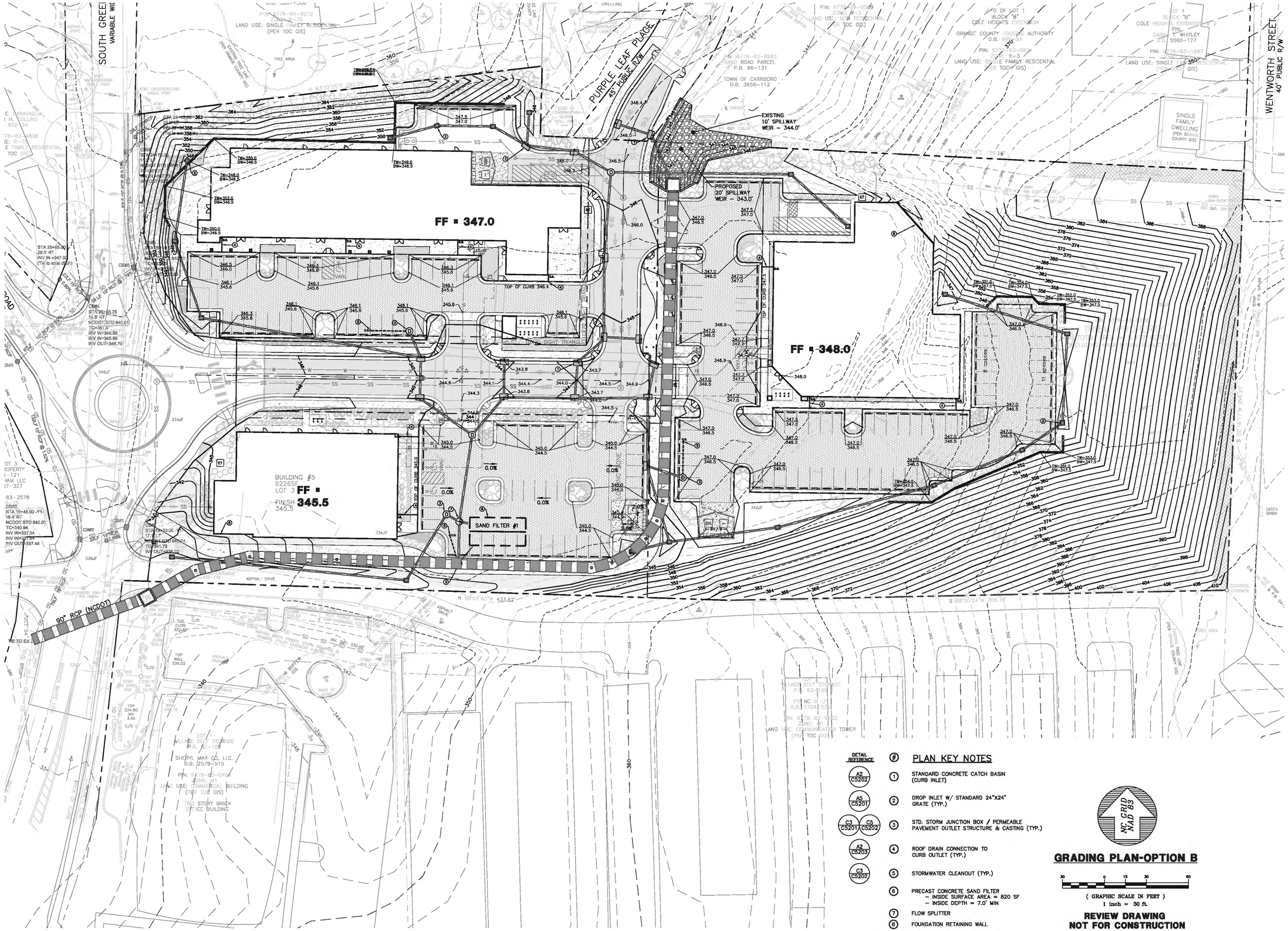
SOUTH GREEN (TRIEM)

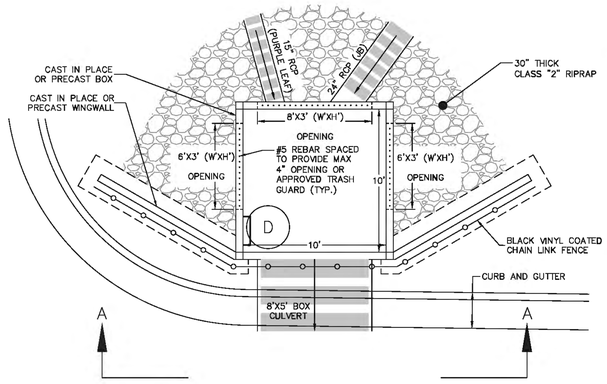
CARRBORO, NORTH CAROLINA

CONDITIONAL USE PERMIT

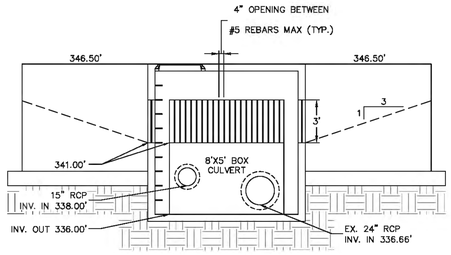
JOB NUMBER: 114023.00
DATE: 21 NOV 2014
SCALE: AS NOTED
DRAWN BY: S.R.M.
REVIEWED BY: G.J.R.

SHEET
C1201


FF = 347.0
FF = 348.0
BUILDING #5
9226SF
LOT 3 FF =
FINISH 345.5
345.5
SAND FILTER #1
PROPOSED
20' SPILLWAY
WEIR = 343.0'
EXISTING
10' SPILLWAY
WEIR = 344.0'
PURPLE LEAF PLAGE
45' PUBLIC R/W
WENTWORTH STREET
40' PUBLIC R/W
SOUTH GREEN
VARIABLE WIDTH
90" RCP (NCDOT)
ASPHALT DRIVE
TOP OF CURB 346.4
TOP OF CURB 347.5
SIGHT TRIANGLE
SINGLE FAMILY DWELLING
(PER ORANGE COUNTY GIS)
LOT 1
VILLAGE SELF STORAGE
P.B. 82-158
SHERYL MAR GO, LLC.
D.B. 2579-515
PIN: 9778-83-0454
ZONE: M1
LAND USE: COMMERCIAL BUILDING
(PER TOC GIS)
TWO STORY BRICK
OFFICE BUILDING
LOT 2
VILLAGE SELF STORAGE
P.B. 82-158
PSI NC III LP
D.B. 5704I 233
PIN: 9778-82-9823
ZONE: I
LAND USE: COMMUNICATION TOWER
(PER TOC GIS)
LOT 1
BLOCK "B"
COLE HEIGHTS EXTENSION
ORANGE COUNTY HOUSING AUTHORITY
D.B. 899-93
PIN: 9778-93-0974
ZONE: R-3
LAND USE: SINGLE FAMILY RESIDENTIAL
(PER TOCH GIS)
LOT 2
BLOCK "B"
COLE HEIGHTS EXTENSION
SARAH T. WHITLEY
D.B. 5560-127
PIN: 9778-93-1887
LAND USE: SINGLE FAMILY RESIDENTIAL
(PER TOCH GIS)
TOWN OF CARRBORO
D.B. 3656-112
P/O OF LOT 1
PIN: 9778-84-0089
ZONE: R-3
LAND USE: NON RESIDENTIAL
(PER TOC GIS)
N 87°07'40"W 433.62'
S 88°50'24"W 355.78'
N 87°B-83-8893
GRAND ROAD PARCEL
P.B. 96-131
E. CARAVAGLIA
I. H. COLLINS
902-14
E. FAMILY RESIDENTIAL
TOC GIS)
78-83-4808
SHED
SHED
SHED

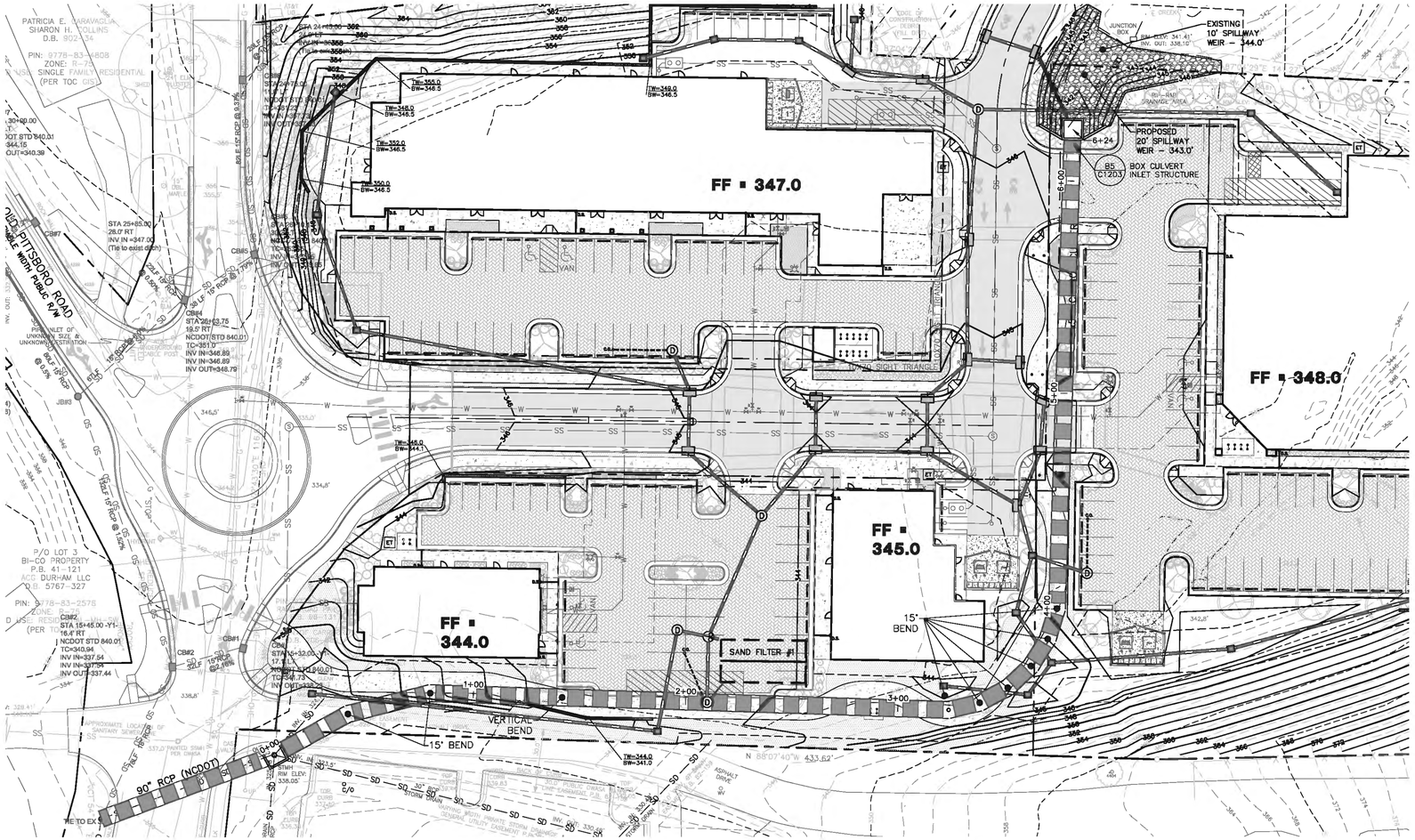


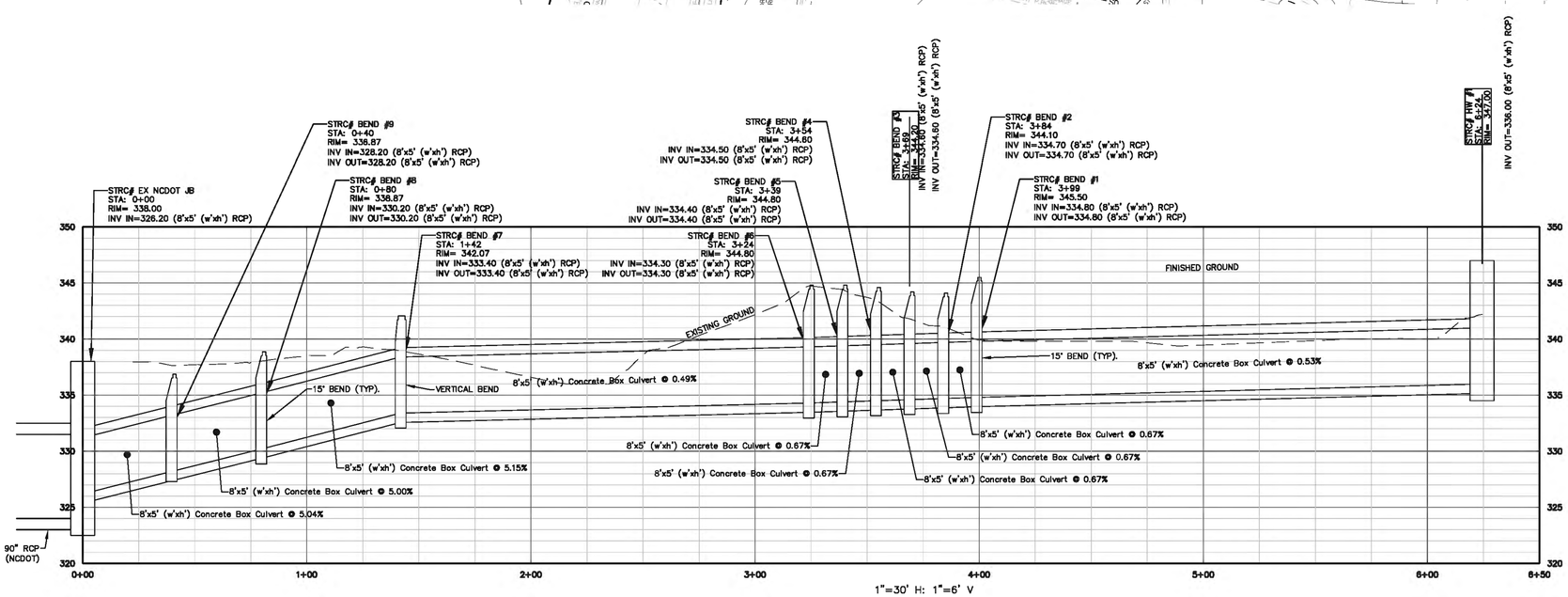
PLAN VIEW



SECTION A–A

B5 / C1203 **BOX CULVERT INLET STRUCTURE** NOT TO SCALE





1"=30' H: 1"=6' V

NOTES:

1. BYPASS LINE PLAN AND PROFILE SHOWN IS FOR OPTION A.

NC GRID NAD 83

BYPASS LINE PLAN AND PROFILE

30 0 15 30 60

(GRAPHIC SCALE IN FEET)
1 inch = 30 ft.

REVIEW DRAWING
NOT FOR CONSTRUCTION

BALLENTINE ASSOCIATES, P.A.
PO BOX 2332 CHAPEL HILL, N.C. 27514
(919) 929-0480 FAX (919) 489-4799

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Ballentine Associates, P.A. CORPORATE SEAL C3128 NORTH CAROLINA Chapel Hill

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 29127 GEORGE J. RESCHE

ISSUED	DATE
CUP SUBMITTAL #4	21 NOV 14
CUP SUBMITTAL #5	14 JAN 15
FINAL CUP SUBMITTAL	19 MAR 15

NUM	REVISIONS	DATE
4	PER TOWN OF CARRBORO COMMENTS	14 JAN 15
5	PER FINAL TOWN OF CARRBORO COMMENTS	19 MAR 15

OWNER INFORMATION
WOODHILL NC, LLC
P.O. BOX 4022
CHAPEL HILL, NC 27515

OWNERS REPRESENTATIVE:
RUNYON WOODS
PH. (919) 418-2121
FAX
EMAIL runyonwoodle@gmail.com

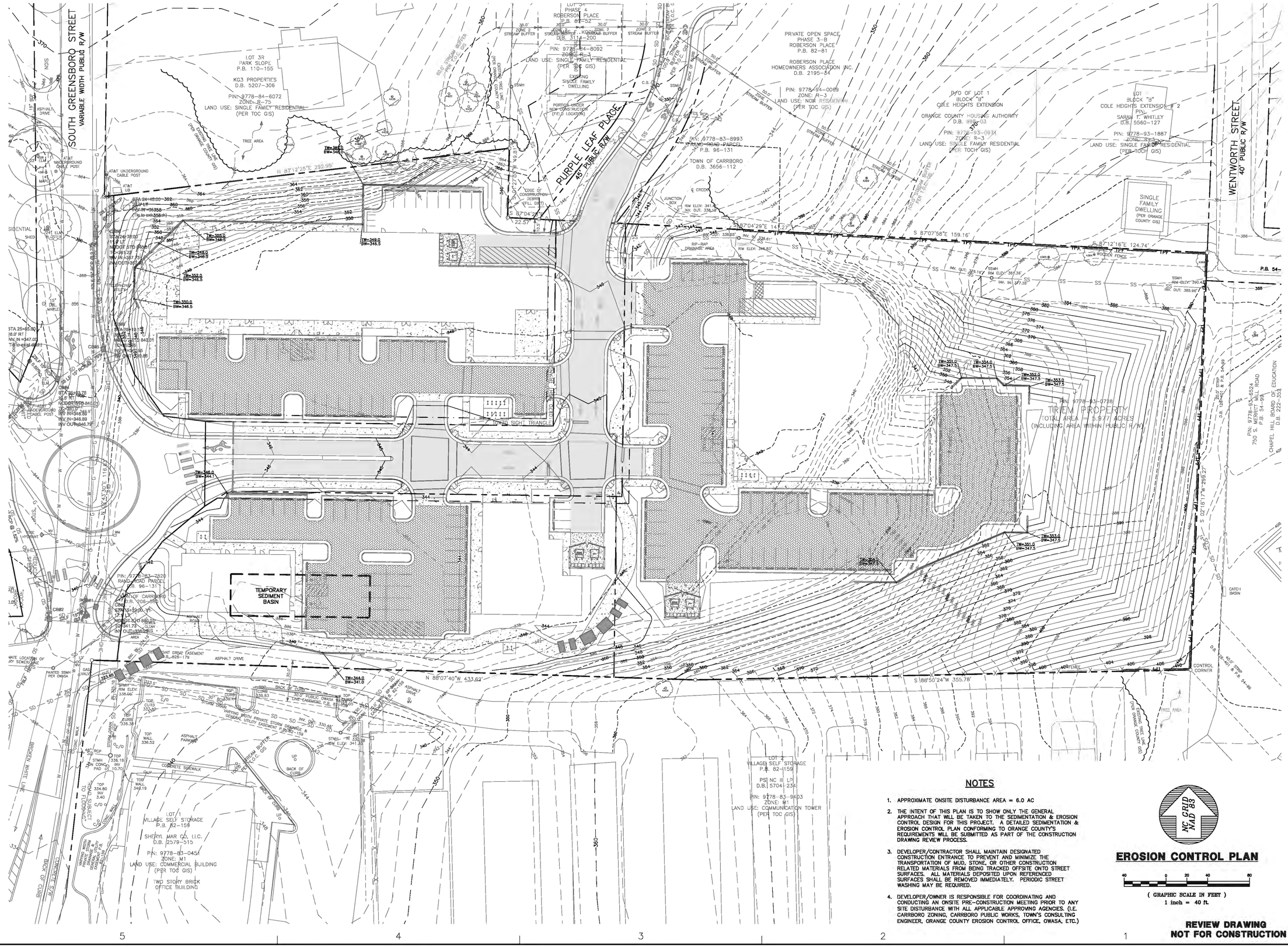
SOUTH GREEN (TRIEM)

CARRBORO, NORTH CAROLINA

CONDITIONAL USE PERMIT

JOB NUMBER: 114023.00
DATE: 21 NOV 2014
SCALE: AS NOTED
DRAWN BY: S.R.M.
REVIEWED BY: G.J.R.

SHEET
C1203


SOUTH GREENSBORO STREET
VARIABLE WIDTH PUBLIC R/W
WENTWORTH STREET
40' PUBLIC R/W
PURPLE LEAF PLACE
45' PUBLIC R/W
LOT 3R
PARK SLOPE
P.B. 110-155
KG3 PROPERTIES
D.B. 5207-306
PIN: 9778-84-6072
ZONE: R-75
LAND USE: SINGLE FAMILY RESIDENTIAL
(PER TOC GIS)
LOT 5
PHASE 4
ROBERSON PLACE
P.B. 87-52
TOWN OF CARRBORO
D.B. 3116-200
PIN: 9778-84-8092
ZONE: R-3
LAND USE: SINGLE FAMILY RESIDENTIAL
(PER TOC GIS)
EXISTING SINGLE FAMILY DWELLING
PRIVATE OPEN SPACE
PHASE 3-B
ROBERSON PLACE
P.B. 82-81
ROBERSON PLACE
HOMEOWNERS ASSOCIATION INC.
D.B. 2195-54
PIN: 9778-84-0089
ZONE: R-3
LAND USE: NON RESIDENTIAL
(PER TOC GIS)
P/O OF LOT 1
BLOCK "B"
COLE HEIGHTS EXTENSION
ORANGE COUNTY HOUSING AUTHORITY
D.B. 885-93
PIN: 9778-93-0934
ZONE: R-3
LAND USE: SINGLE FAMILY RESIDENTIAL
(PER TOCH GIS)
LOT
BLOCK "B"
COLE HEIGHTS EXTENSION # 2
PIN:
SARAH F. WHITLEY
D.B. 5560-127
PIN: 9778-93-1887
ZONE: R-3
LAND USE: SINGLE FAMILY RESIDENTIAL
(PER TOCH GIS)
SINGLE FAMILY DWELLING
(PER ORANGE COUNTY GIS)
PIN: 9778-83-8993
(LAND LOCKED PARCEL)
D.B. 96-131
TOWN OF CARRBORO
D.B. 3656-112
PIN: 9778-83-7820
(LAND LOCKED PARCEL)
D.B. 96-131
TOWN OF CARRBORO
D.B. 206-86
TEMPORARY SEDIMENT BASIN
LOT 1
VILLAGE SELF STORAGE
P.B. 82-159
SHERYL MAR CO, LLC.
D.B. 2579-515
PIN: 9778-83-0451
ZONE: M1
LAND USE: COMMERCIAL BUILDING
(PER TOC GIS)
TWO STORY BRICK OFFICE BUILDING
LOT 2
VILLAGE SELF STORAGE
P.B. 82-159
PS NC III LP
D.B. 5704-234
PIN: 9778-83-9603
ZONE: M1
LAND USE: COMMUNICATION TOWER
(PER TOC GIS)
PIN: 9778-93-9728
TRIEM PROPERTY
TOTAL AREA = 5.977 ACRES
(INCLUDING AREA WITHIN PUBLIC R/W)
PIN: 9778-93-6524
750 S. MERRITT MILL ROAD
CHAPEL HILL BOARD OF EDUCATION
D.B. 222-353
N 88°07'40"W 433.62'
S 88°50'24"W 355.78'
S 87°04'29"E 147.27'
S 87°07'58"E 159.16'
S 87°12'16"E 124.74'
N 87°12'25"E 299.98'
S 87°04'29"E 22.57'
N 02°43'30"E 116.65'
S 02°18'17"W 296.27'
P.B. 54-
TW=350.0
BW=348.5
TW=348.0
BW=346.5
TW=352.0
BW=348.5
TW=350.0
BW=346.5
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BW=346.5
TW=346.0
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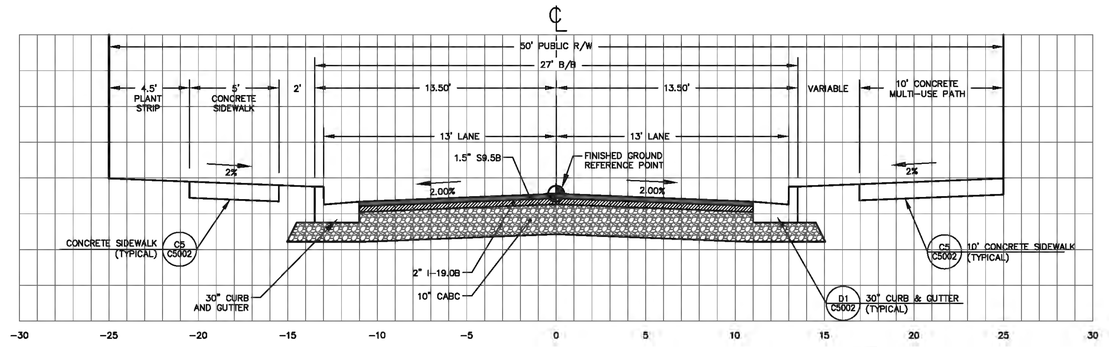
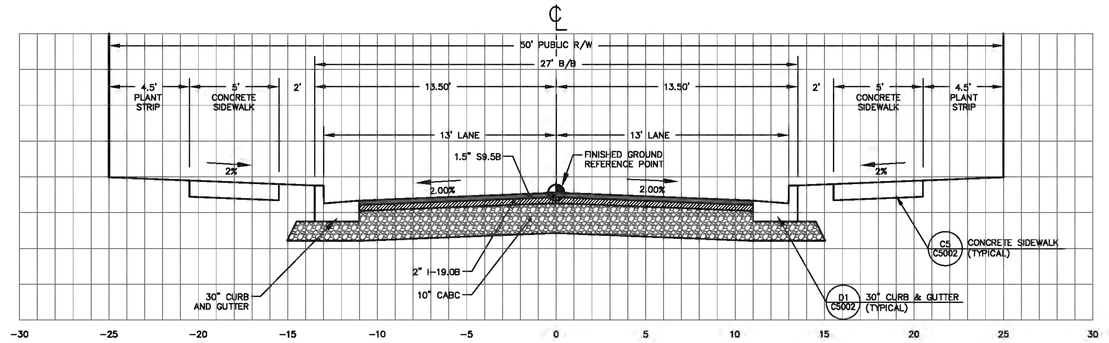
TW=353.0
BW=347.5



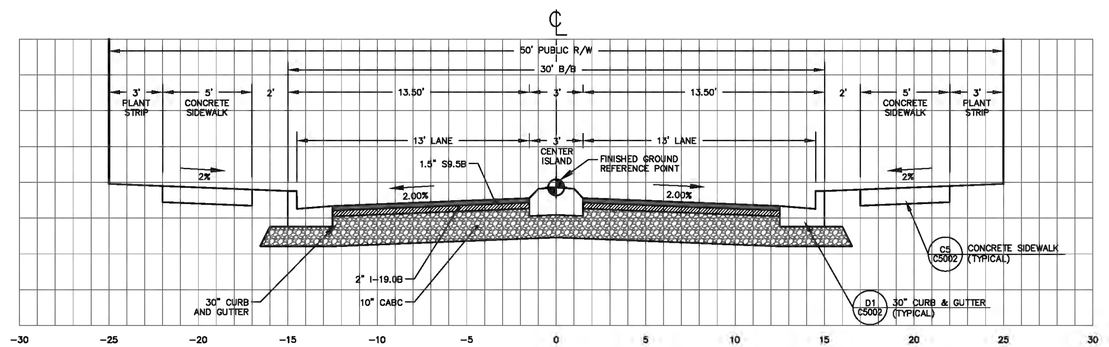
SOUTH GREEN "RAND ROAD"
SCALE – H: 1"=4'
V: 1"=2'

3
C3201



SOUTH GREEN "RAND ROAD"
SCALE – H: 1"=4'
V: 1"=2'

2
C3201



SOUTH GREEN "RAND ROAD"
SCALE – H: 1"=4'
V: 1"=2'

1
C3201

TYPICAL ROADWAY SECTIONS

REVIEW DRAWING
NOT FOR CONSTRUCTION

BALLENTINE ASSOCIATES, P.A.
221 PROVIDENCE ROAD, CHAPEL HILL, N.C. 27514
(919) 929 – 0481 (919) 489 – 4789

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Ballentine Associates, P.A. CORPORATE SEAL C328 NORTH CAROLINA Chapel Hill

NORTH CAROLINA PROFESSIONAL SEAL 029127 ENGINEER GEORGE J. RETSCHLE 19 MAR 15

NUM	REVISIONS	DATE
1	PER TOWN OF CARRBORO COMMENTS	14 JAN 15
2	PER FINAL TOWN OF CARRBORO COMMENTS	19 MAR 15

OWNER INFORMATION
WOODHILL NC, LLC
P.O. BOX 4022
CHAPEL HILL, NC 27515

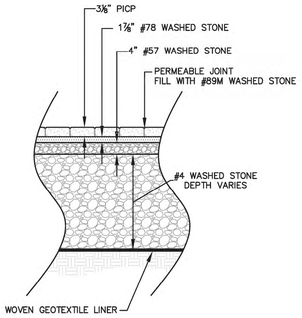
OWNERS REPRESENTATIVE:
RUNYON WOODS
PH. (919) 418-2121
FAX
EMAIL runyonwoods@gmail.com

ISSUED	DATE
CUP SUBMITTAL #4	21 NOV 14
CUP SUBMITTAL #5	14 JAN 15
FINAL CUP SUBMITTAL	19 MAR 15

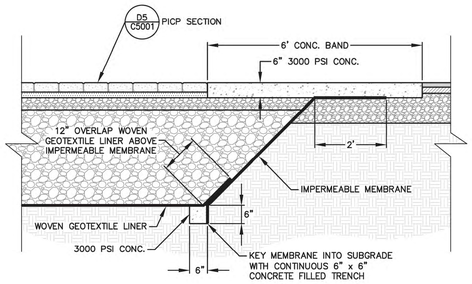
SOUTH GREEN (TRIEM)
CARRBORO, NORTH CAROLINA
CONDITIONAL USE PERMIT

JOB NUMBER: 114023.00
DATE: 21 NOV 2014
SCALE: AS NOTED
DRAWN BY: S.R.M.
REVIEWED BY: G.J.R.

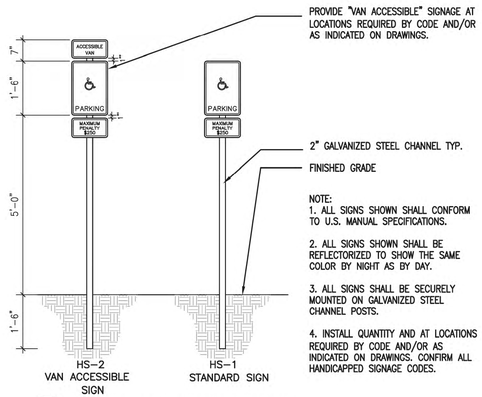
SHEET
C3201



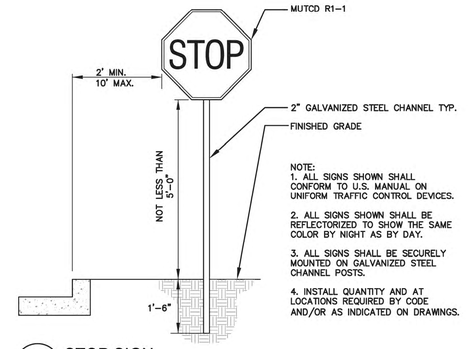
D5 C5001 PERMEABLE INTERLOCKING CONCRETE PAVERS (PICP)
SCALE: 1" = 2'



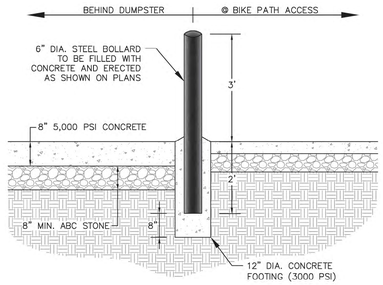
D4 C5001 6' WIDE CONCRETE BOUNDARY
SCALE: 1" = 2'



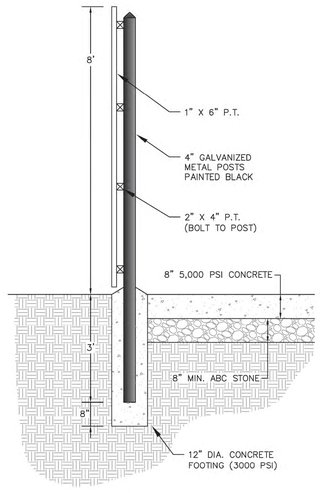
D3 C5001 HANDICAP PARKING SIGNS
SCALE: 1" = 2'



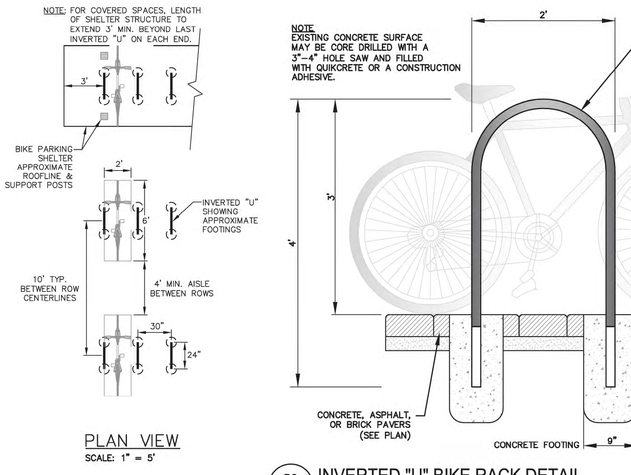
D1 C5001 STOP SIGN
SCALE: 1" = 2'



B4 C5001 6" PIPE BOLLARD
SCALE: 1" = 2'

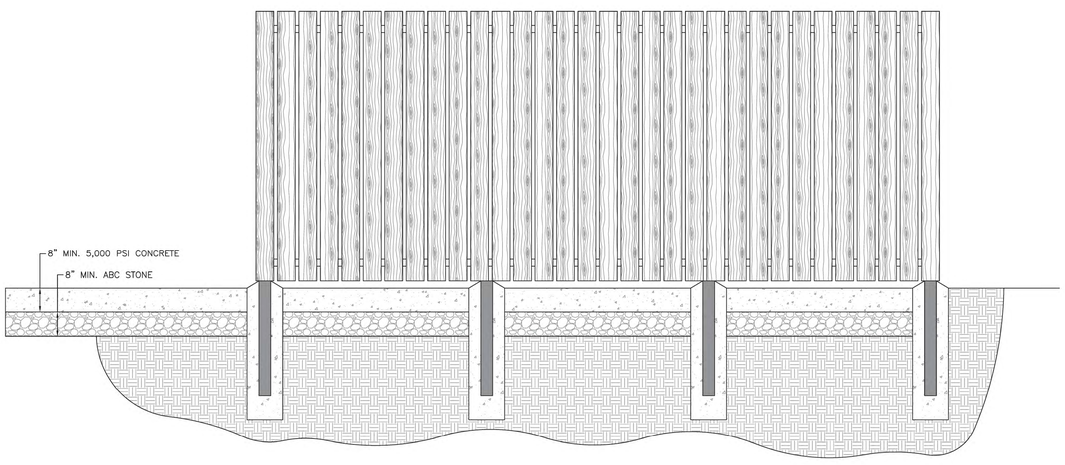


B3 C5001 DUMPSTER ENCLOSURE SECTION B-B
SCALE: 1" = 2'

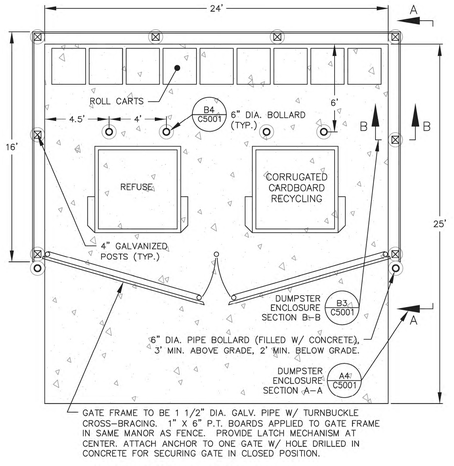


PLAN VIEW
SCALE: 1" = 5'

B2 C5001 INVERTED "U" BIKE RACK DETAIL
SCALE: 1" = 1'



A4 C5001 DUMPSTER ENCLOSURE SECTION A-A
SCALE: 1" = 2'



A2 C5001 CARDBOARD, MSW & RECYCLING ENCLOSURES
SCALE: 1" = 5'

SITE DETAILS

REVIEW DRAWING NOT FOR CONSTRUCTION

BALLENTINE ASSOCIATES, P.A.
2 DAVIS DRIVE, P.O. BOX 14287, RESEARCH TRIANGLE PARK, NC 27709
(919) 929 - 0481 (919) 469 - 4789

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Ballentine Associates, P.A. CORPORATE SEAL C328 NORTH CAROLINA Chapel Hill

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 29912 GEORGE J. RETSCHLE

NUM	REVISIONS	DATE
1	PER TOWN OF CARRBORO COMMENTS	14 JAN 15
2	PER FINAL TOWN OF CARRBORO COMMENTS	19 MAR 15

ISSUED	DATE
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P.O. BOX 4022
CHAPEL HILL, NC 27515

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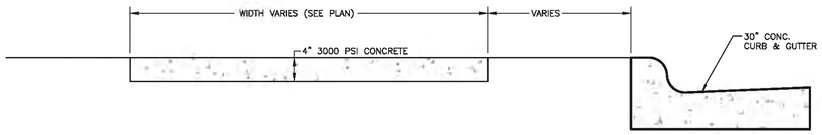
FAX
EMAIL runyonwoods@gmail.com

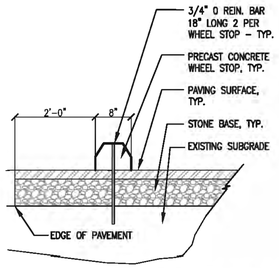
SOUTH GREEN (TRIEM)
CARRBORO, NORTH CAROLINA
CONDITIONAL USE PERMIT

JOB NUMBER: 114023.00
DATE: 21 NOV 2014
SCALE: AS NOTED
DRAWN BY: S.R.M.
REVIEWED BY: G.J.R.

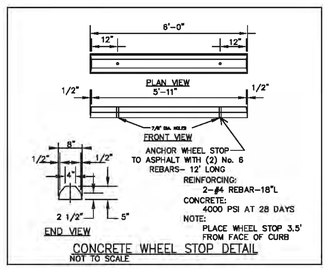
SHEET
C5001



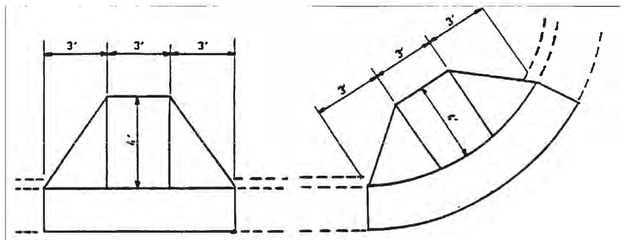
C5 / C5002 CONCRETE SIDEWALK
N.T.S.



C3 / C5002 CONCRETE WHEELSTOP
N.T.S.



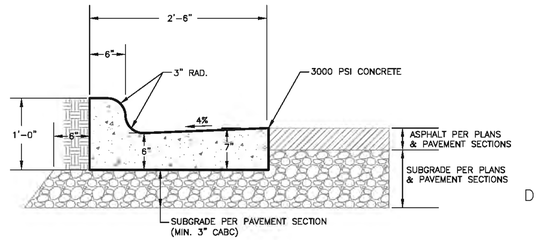
CONCRETE WHEEL STOP DETAIL
NOT TO SCALE



STANDARD WHEEL CHAIR RAMP

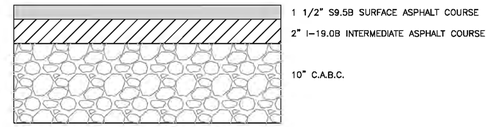
THE TOWN OF CARRBORO, N.C. STD. NO. 9

A3 / C5002 WHEEL CHAIR / ACCESSIBLE RAMP
N.T.S.

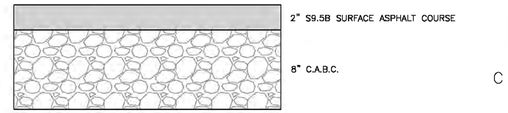


NOTE: INSTALL EXPANSION JOINTS EVERY 30" AND AT EACH SIDE OF DRIVEWAY APRONS.

D1 / C5002 30" CONCRETE CURB & GUTTER
SCALE: 1" = 1'



HEAVY DUTY ASPHALT PAVEMENT CROSS SECTION



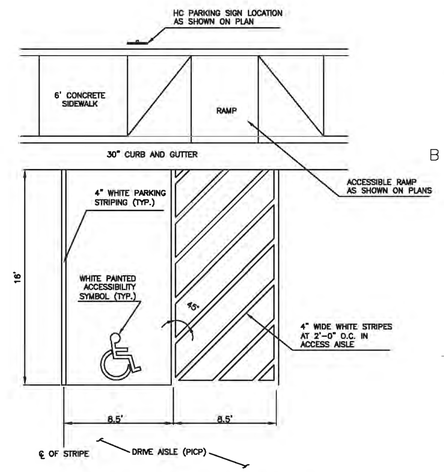
(AUTOMOBILE AREAS ONLY – NO TRUCKS)

STANDARD DUTY ASPHALT PAVEMENT CROSS SECTION

NOTES:

1. PERMEABLE INTERLOCKING CONCRETE PAVER SECTION SHOWN UNDER SEPARATE DETAIL.
2. PAVEMENT SECTIONS SHOWN ARE PRELIMINARY. FINAL PAVEMENT SECTIONS TO BE BASED UPON RECOMMENDATIONS PROVIDED BY THE OWNER'S GEOTECHNICAL ENGINEER.

C1 / C5002 TYPICAL ASPHALT PAVEMENT SECTIONS
N.T.S.



A1 / C5002 PAINTED ACCESSIBILITY SPACE AND AISLE
NTS

SITE DETAILS

REVIEW DRAWING NOT FOR CONSTRUCTION

BALLENTINE ASSOCIATES, P.A.
211 FOXCROFT ROAD, CHAPEL HILL, N.C. 27514
(919) 929 – 0481 (919) 489 – 4789

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Ballentine Associates, P.A. CORPORATE SEAL C328 NORTH CAROLINA Chapel Hill

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 29127 GEORGE J. RESCOLE

NUM	REVISIONS	DATE
1	PER TOWN OF CARRBORO COMMENTS	14 JAN 15
2	PER FINAL TOWN OF CARRBORO COMMENTS	19 MAR 15

OWNER INFORMATION
WOODHILL NC, LLC
P.O. BOX 4022
CHAPEL HILL, NC 27515

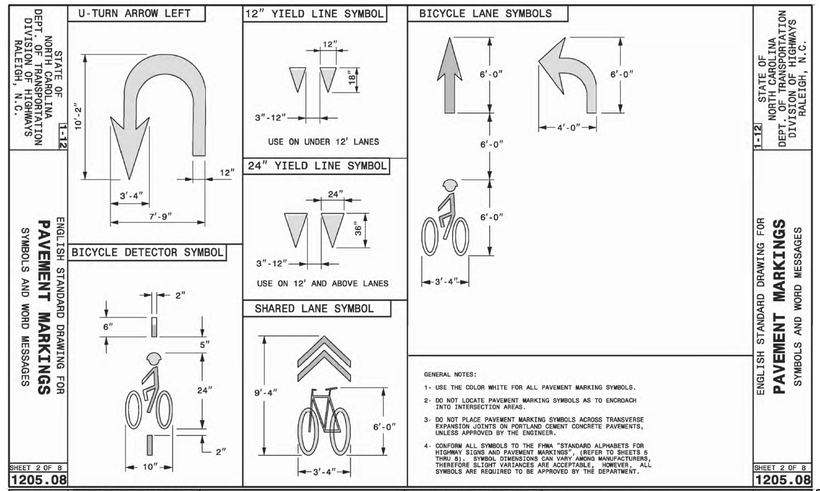
OWNERS REPRESENTATIVE:
RUNYON WOODS
PH. (919) 418–2121
FAX
EMAIL runyonwoods@gmail.com

ISSUED	DATE
CUP SUBMITTAL #4	21 NOV 14
CUP SUBMITTAL #5	14 JAN 15
FINAL CUP SUBMITTAL	19 MAR 15

SOUTH GREEN (TRIEM)
CARRBORO, NORTH CAROLINA
CONDITIONAL USE PERMIT

JOB NUMBER: 114023.00
DATE: 21 NOV 2014
SCALE: AS NOTED
DRAWN BY: S.R.M.
REVIEWED BY: G.J.R.

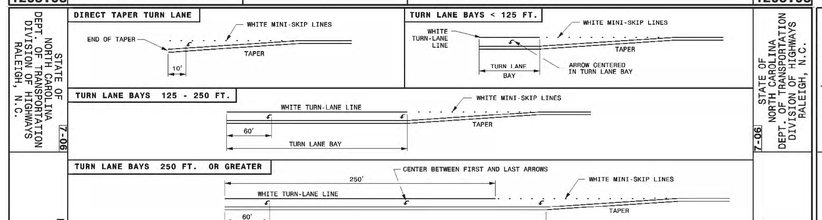
SHEET
C5002



STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C. — 1-12

ENGLISH STANDARD DRAWING FOR **PAVEMENT MARKINGS** SYMBOLS AND WORD MESSAGES

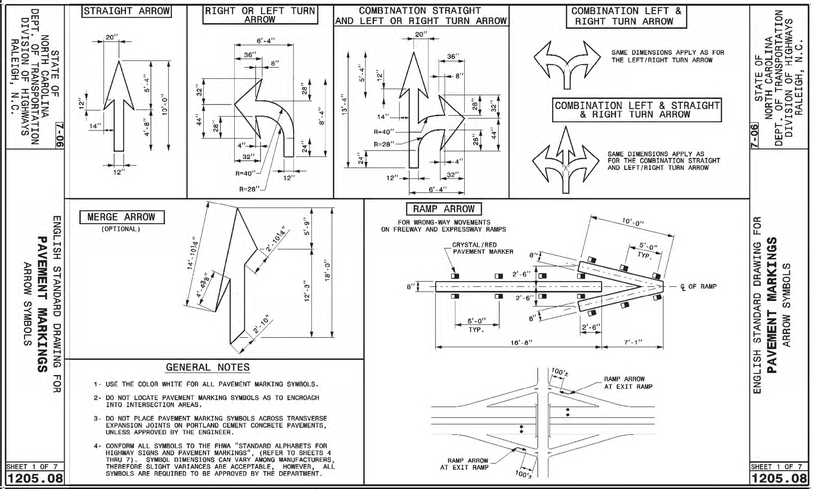
SHEET 2 OF 8 — **1205.08**



STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C. — 7-06

ENGLISH STANDARD DRAWING FOR **PAVEMENT MARKINGS** TURN LANES

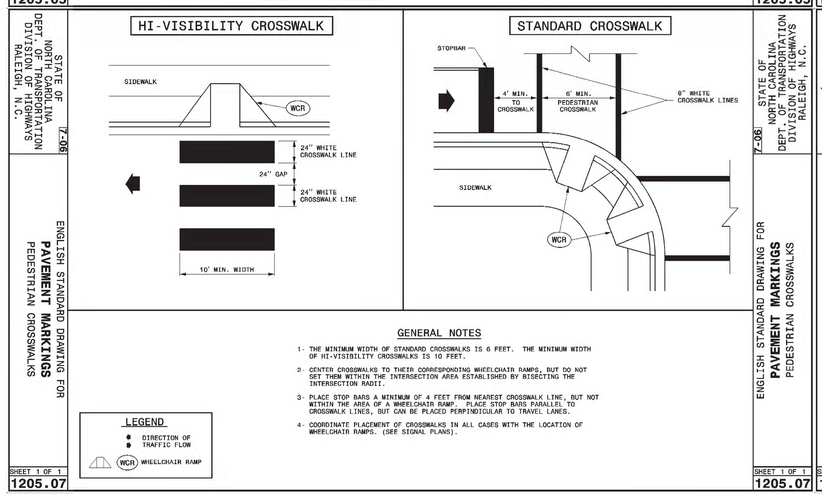
SHEET 1 OF 1 — **1205.05**



STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C. — 7-06

ENGLISH STANDARD DRAWING FOR **PAVEMENT MARKINGS** ARROW SYMBOLS

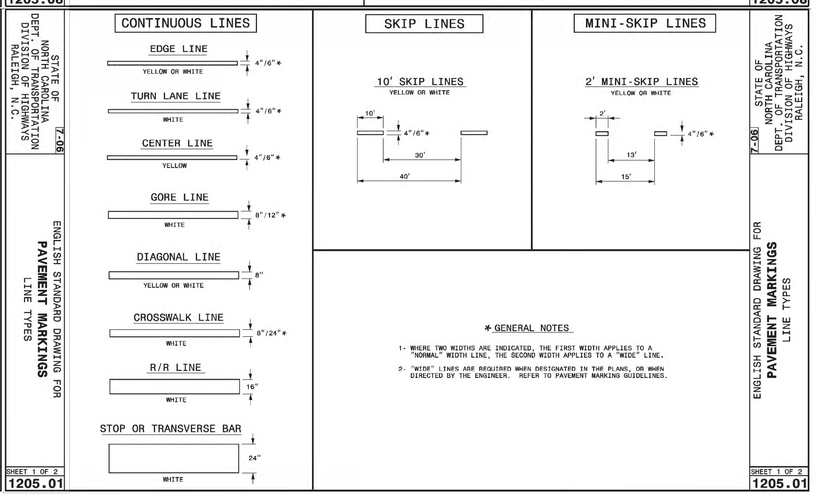
SHEET 1 OF 7 — **1205.08**



STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C. — 7-06

ENGLISH STANDARD DRAWING FOR **PAVEMENT MARKINGS** PEDESTRIAN CROSSWALKS

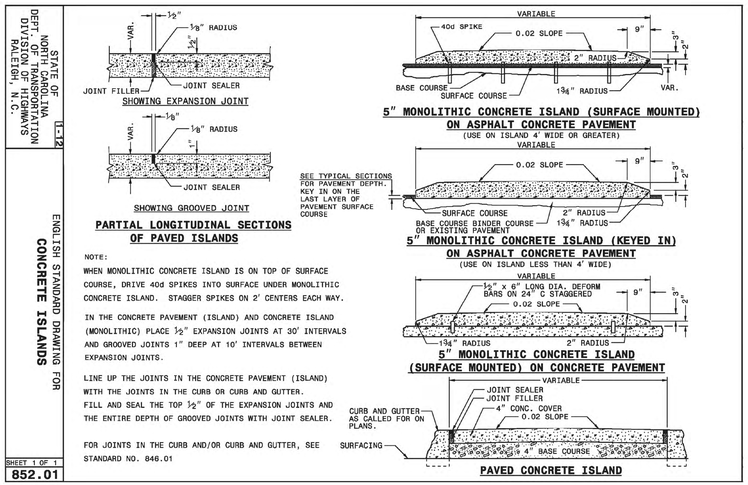
SHEET 1 OF 1 — **1205.07**



STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C. — 7-06

ENGLISH STANDARD DRAWING FOR **PAVEMENT MARKINGS** LINE TYPES

SHEET 1 OF 2 — **1205.01**

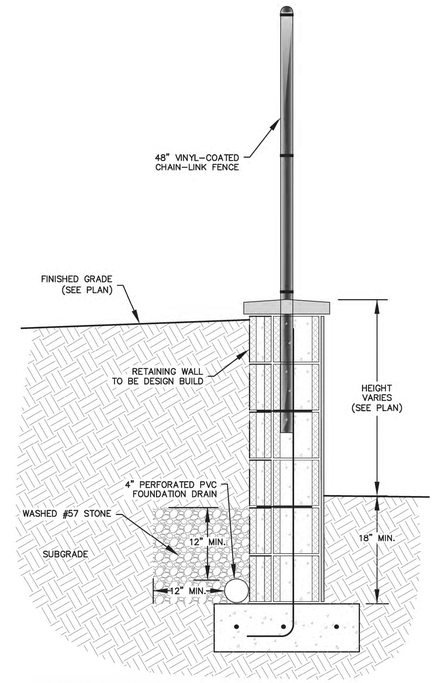


STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C. — 1-12

ENGLISH STANDARD DRAWING FOR **CONCRETE ISLANDS**

SHEET 1 OF 1 — **852.01**

C2 / C5003 CONCRETE ISLAND
N.T.S.



A5 / C5003 TYPICAL ON-SITE RETAINING WALL SECTION (DESIGN-BUILD)
SCALE: 1" = 1'

A3 / C5003 PAVEMENT MARKINGS
N.T.S.

SITE DETAILS

REVIEW DRAWING NOT FOR CONSTRUCTION

BALLENTINE ASSOCIATES, P.A.
ASSOCIATES, P.A. CHAPEL HILL, N.C. 27514
(919) 489 - 4789
(919) 929 - 0481

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NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 29912 GEORGE J. RETSCHLE

NUM	REVISIONS	DATE
1	PER TOWN OF CARRBORO COMMENTS	14 JAN 15
2	PER FINAL TOWN OF CARRBORO COMMENTS	19 MAR 15

ISSUED	DATE
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CUP SUBMITTAL #5	14 JAN 15
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CHAPEL HILL, NC 27515

OWNERS REPRESENTATIVE:
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PH. (919) 418-2121
FAX
EMAIL runyonwoods@gmail.com

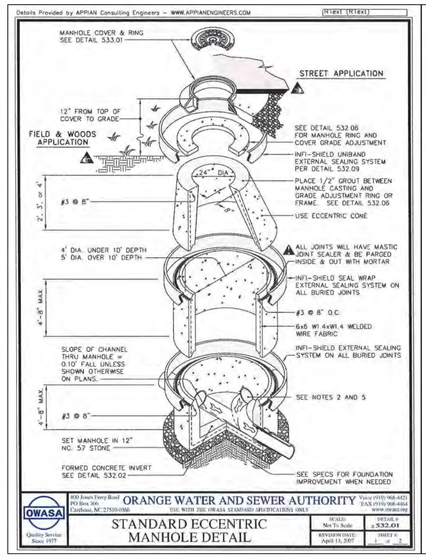
SOUTH GREEN (TRIEM)

CARRBORO, NORTH CAROLINA

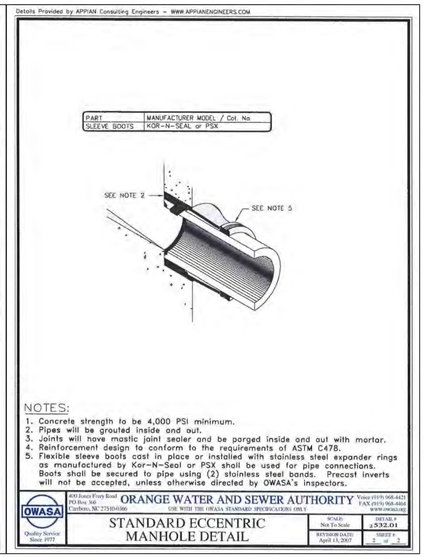
CONDITIONAL USE PERMIT

JOB NUMBER: 114023.00
DATE: 21 NOV 2014
SCALE: AS NOTED
DRAWN BY: S.R.M.
REVIEWED BY: G.J.R.

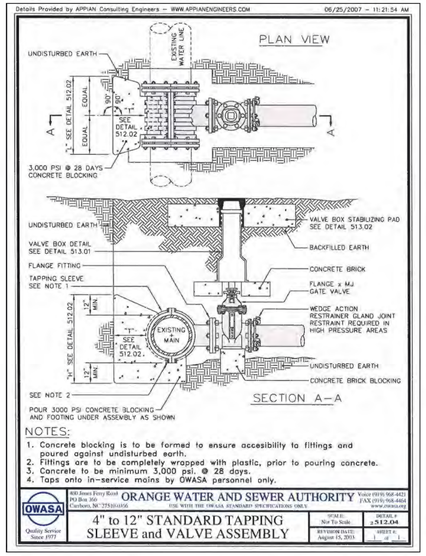
SHEET
C5003



C5 / C5101 TYPICAL PRECAST CONCRETE MANHOLE N.T.S.

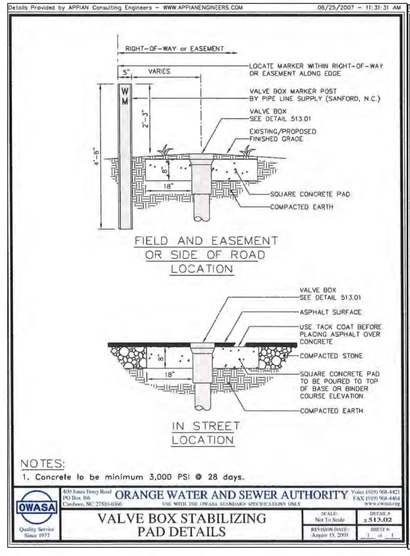


NOTES:
1. Concrete strength to be 4,000 PSI minimum.
2. Pipes will be grouted inside and out.
3. Joints will have mastic joint sealer and be parged inside and out with mortar.
4. Reinforcement design to conform to the requirements of ASTM C478.
5. Flexible sleeve boots cast in place or installed with stainless steel expander rings as manufactured by Kor-N-Seal or PSX shall be used for pipe connections. Boots shall be secured to pipe using (2) stainless steel bands. Precast inverts will not be accepted, unless otherwise directed by OWASA's inspectors.



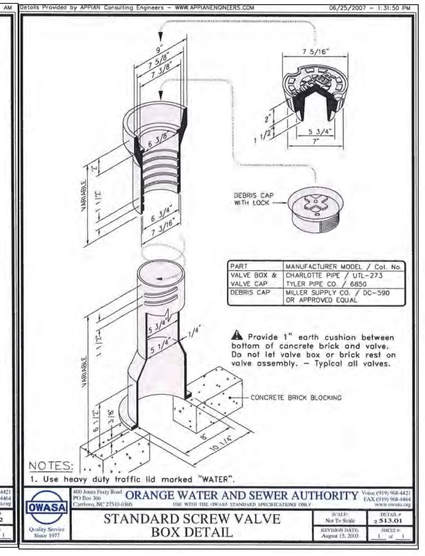
NOTES:
1. Concrete blocking is to be formed to ensure accessibility to fittings and poured against undisturbed earth.
2. Fittings are to be completely wrapped with plastic, prior to pouring concrete.
3. Concrete to be minimum 3,000 psi. @ 28 days.
4. Taps onto in-service mains by OWASA personnel only.

C3 / C5101 STANDARD TAPPING SLEEVE N.T.S.

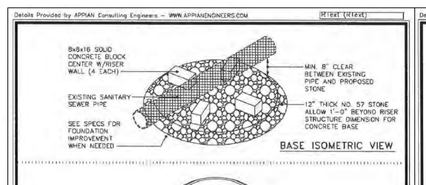


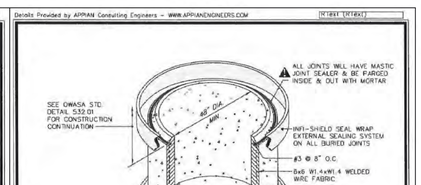
NOTES:
1. Concrete to be minimum 3,000 PSI @ 28 days.

C2 / C5101 STANDARD VALVE BOX INSTALLATION N.T.S.



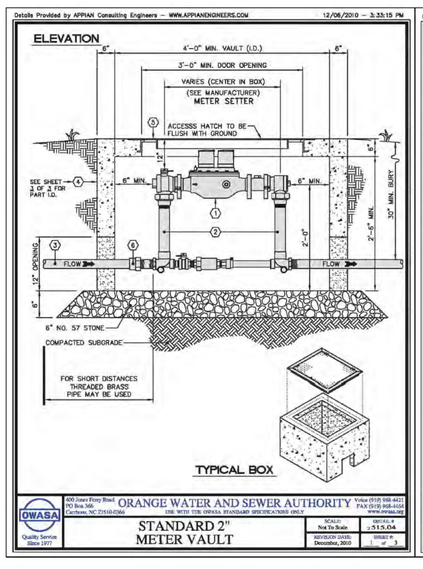
NOTES:
1. Use heavy duty traffic lid marked "WATER".

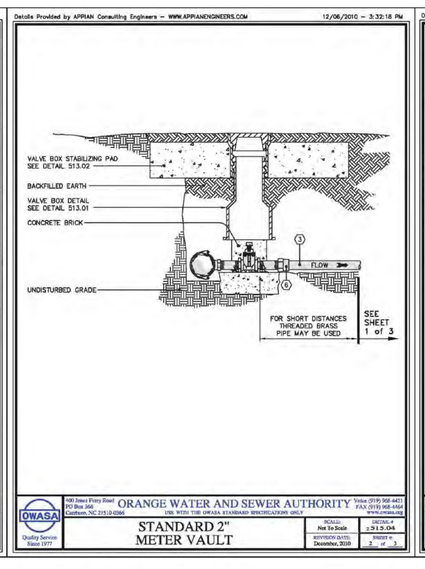


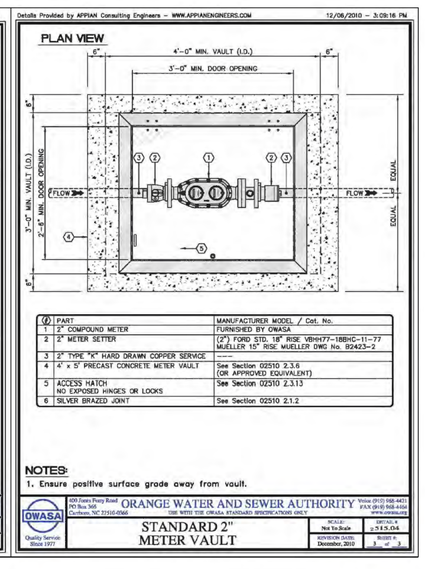


NOTES:
1. All service laterals into manhole to be core drilled and booted.
2. Maximum depth 4' dia. manhole = 10' (see specifications). Use 5' dia. manhole for depth greater than 10'.

A5 / C5101 PRECAST CONCRETE DOGHOUSE MANHOLE N.T.S.







NOTES:
1. Ensure positive surface grade away from vault.

A2 / C5101 2" DOMESTIC METER VAULT N.T.S.

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(919) 929 - 0461 (919) 489 - 4789

Ballentine Associates, P.A. CORPORATE SEAL C1328 NORTH CAROLINA Chapel Hill

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 029127 GEORGE J. RETSOLE

NUM	REVISIONS	DATE
1	PER TOWN OF CARRBORO COMMENTS	14 JAN 15
2	PER FINAL TOWN OF CARRBORO COMMENTS	19 MAR 15

ISSUED	DATE
CUP SUBMITTAL #4	21 NOV 14
CUP SUBMITTAL #5	14 JAN 15
FINAL CUP SUBMITTAL	19 MAR 15

OWNER INFORMATION
WOODHILL NC, LLC
P.O. BOX 4022
CHAPEL HILL, NC 27515

OWNERS REPRESENTATIVE:
RUNYON WOODS
PH. (919) 418-2121
FAX
EMAIL runyonwoods@gmail.com

SOUTH GREEN (TRIEM)

CARRBORO, NORTH CAROLINA

CONDITIONAL USE PERMIT

JOB NUMBER: 114023.00
DATE: 21 NOV 2014
SCALE: AS NOTED
DRAWN BY: S.R.M.
REVIEWED BY: G.J.R.

SHEET
C5101

UTILITY DETAILS

REVIEW DRAWING
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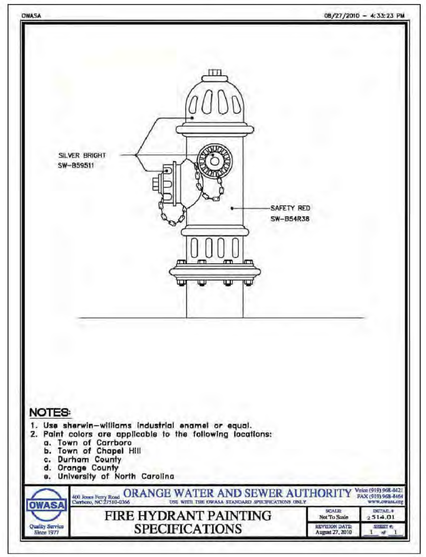
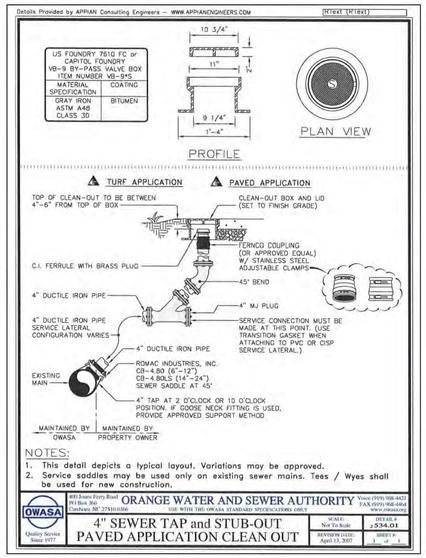
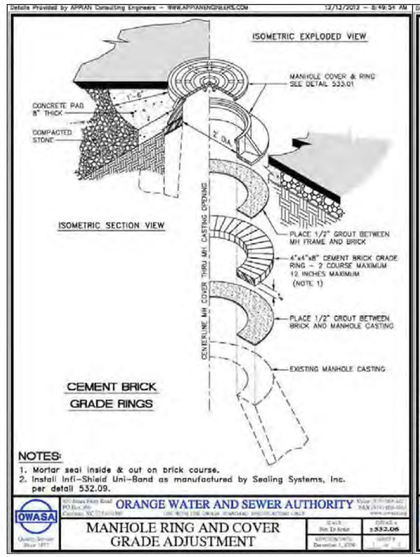
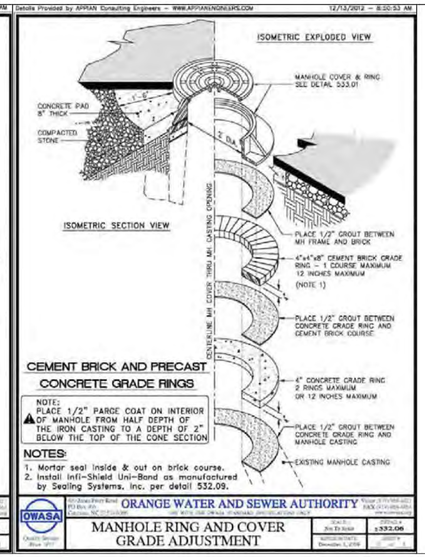


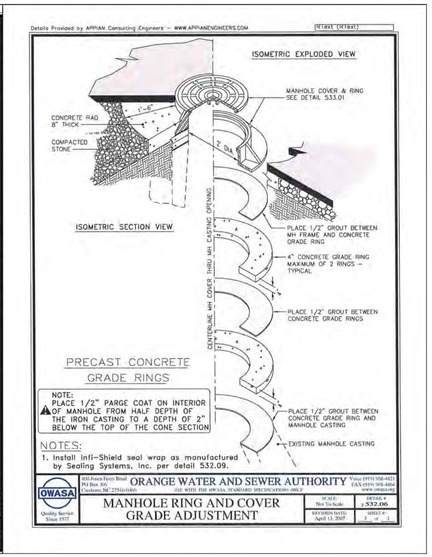
C5 / C5102 FIRE HYDRANT PAINTING
N.T.S.



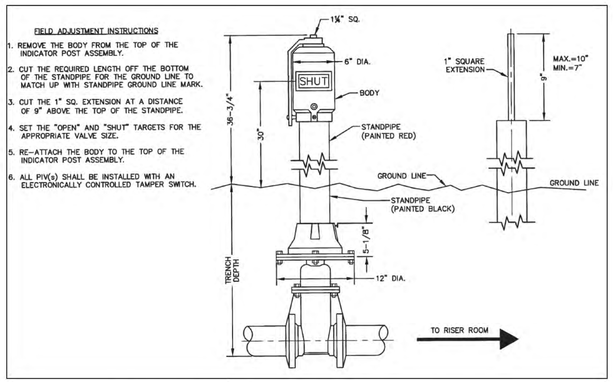
C4 / C5102 TYPICAL CLEANOUT ASSEMBLY & SEWER SERVICE CONNECTION
N.T.S.



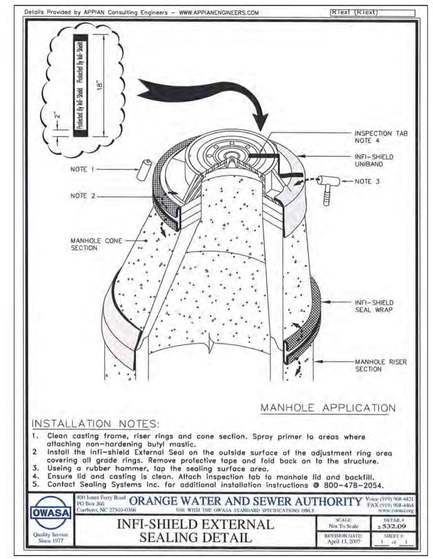




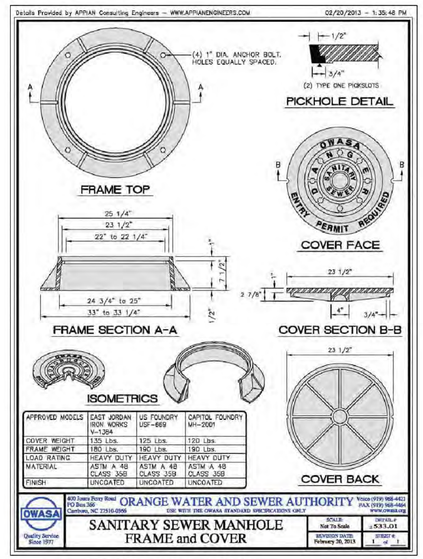
OWASA DETAIL 532.06
MANHOLE RING & COVER GRADE ADJUSTMENT



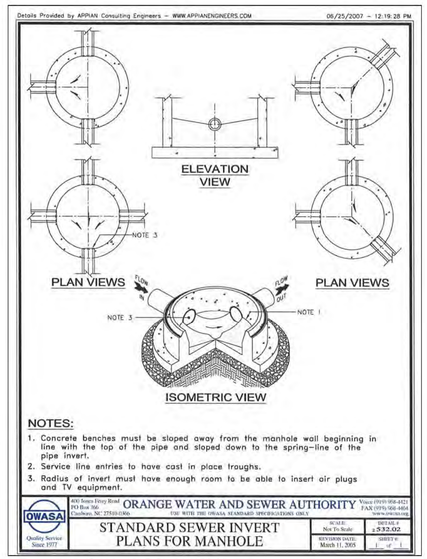
B5 / C5102 POST INDICATOR VALVE
N.T.S.



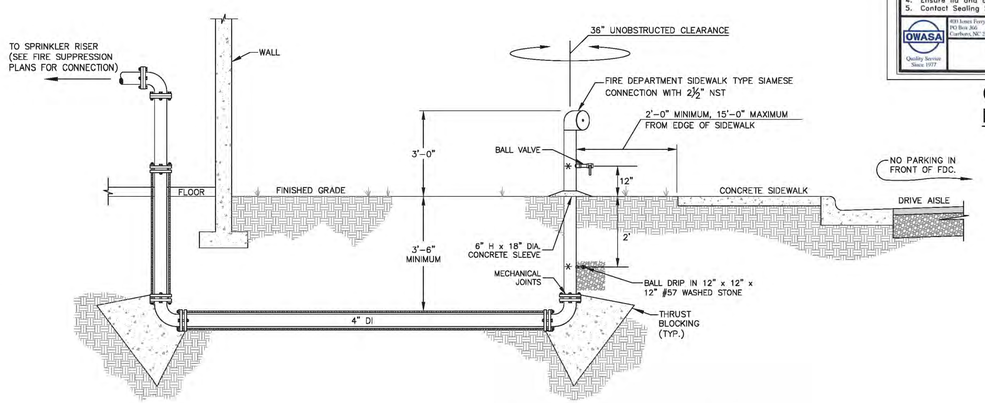
OWASA DETAIL 532.09
INFI-SHIELD EXTERNAL SEALING



OWASA DETAIL 533.01
SAN. SEWER MANHOLE FRAME & COVER



OWASA DETAIL 532.02
STANDARD SEWER INVERT FOR MANHOLE



A5 / C5102 FIRE DEPARTMENT CONNECTION SCHEMATIC
N.T.S.

UTILITY DETAILS

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NORTH CAROLINA PROFESSIONAL SEAL 29127 ENGINEER GEORGE J. RETSOLE

NUM	REVISIONS	DATE
1	PER TOWN OF CARRBORO COMMENTS	14 JAN 15
2	PER FINAL TOWN OF CARRBORO COMMENTS	19 MAR 15

OWNER INFORMATION
WOODHILL NC, LLC
P.O. BOX 4022
CHAPEL HILL, NC 27515

OWNERS REPRESENTATIVE:
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EMAIL runyonwoods@gmail.com

ISSUED	DATE
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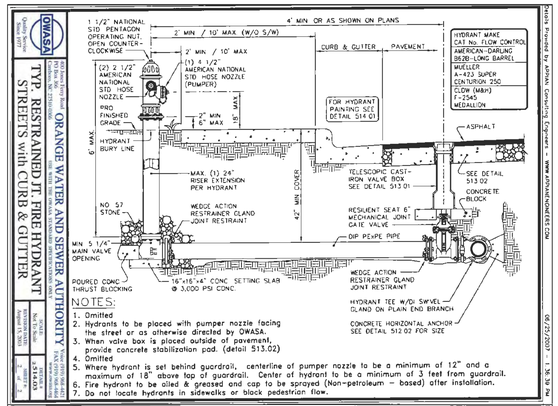
CUP SUBMITTAL #5	14 JAN 15
FINAL CUP SUBMITTAL	19 MAR 15

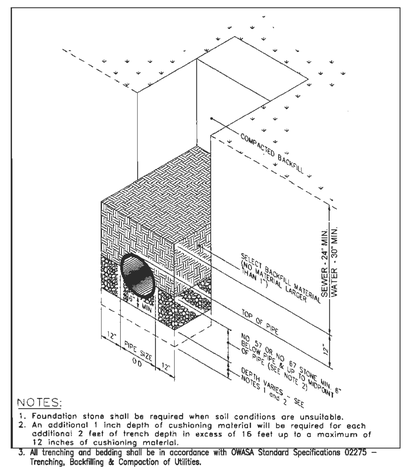
SOUTH GREEN (TRIEM)
CARRBORO, NORTH CAROLINA
CONDITIONAL USE PERMIT

JOB NUMBER: 114023.00
DATE: 21 NOV 2014
SCALE: AS NOTED
DRAWN BY: S.R.M.
REVIEWED BY: G.J.R.

SHEET
C5102



B5 / C5103 TYPICAL FIRE HYDRANT INSTALLATION
N.T.S.



A5 / C5103 DUCTILE IRON PIPE TRENCH & BEDDING
N.T.S.

UTILITY DETAILS

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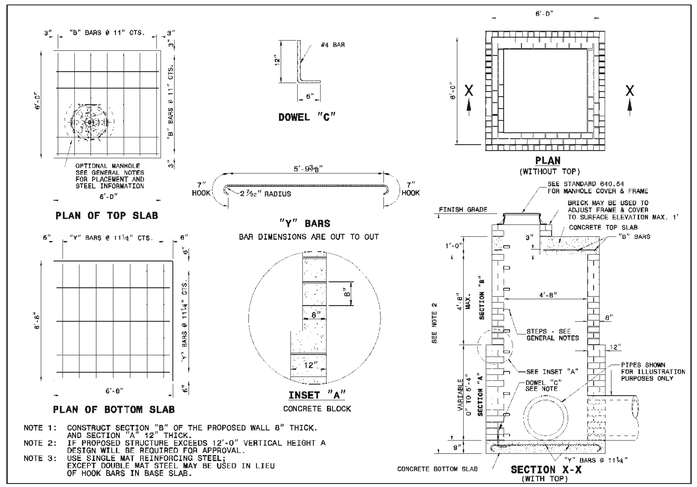
JOB NUMBER: 114023.00
DATE: 21 NOV 2014
SCALE: AS NOTED
DRAWN BY: S.R.M.
REVIEWED BY: G.J.R.

SHEET
C5103



NCDOT STD. DETAIL 840.34
(USE AT CONNECTION TO EXISTING PIPES)

GENERAL NOTES:

USE STANDARD OR JUMBO BRICK FOR WALL CONSTRUCTION. SOLID CONCRETE BRICK OR BLOCK ARE OPTIONAL WALL CONSTRUCTION MATERIAL.

PRECAST UNITS MADE OF CLASS "AA" CONCRETE MAY BE USED IN LIEU OF BRICK MASONRY CONTRUCTION. SUBMIT DESIGN OF PRECAST UNITS FOR APPROVAL PRIOR TO CONSTRUCTION.

INCLUDE ALL ADJUSTMENTS TO WALLS, SLABS OR REINFORCING MATERIAL IN THE UNIT PRICE BID FOR EACH UNIT.

INSTALL OPTIONAL MANHOLE IN POSITION AS DIRECTED BY THE ENGINEER. CUT OR BEND ALL REBAR CROSSING THIS OPENING TO ALLOW 2" MINIMUM CONCRETE COVERAGE. ENCLOSE THE OPENING WITH 8 "A" BARS TIED TO TO THE REBAR MAT AND SET SO A MINIMUM OF 2" CONCRETE COVER IS ATTAINED. REFERENCE STD. NO. 840.54 FOR MANHOLE INFORMATION.

PROVIDE JUNCTION BOXES WITH MANHOLES OVER 5'-6" IN DEPTH WITH STEPS PLACED ON 12" CENTERS. REFERENCE STD. NO. 840.66.

SPACE DOWEL "C" BARS AT A MAXIMUM OF 12" CENTERS.

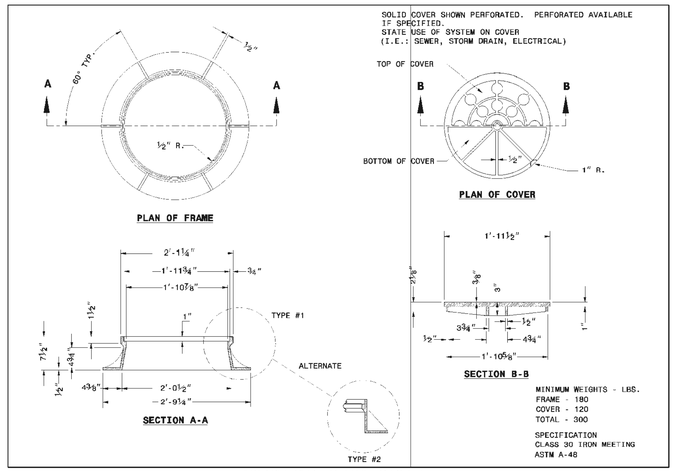
MAXIMUM DEPTH OF THIS UNIT AS SHOWN IS 12'.

CONSTRUCT THE JUNCTION BOX IN ACCORDANCE WITH SECTIONS 830, 832, 834 AND 840 OF THE STANDARD SPECIFICATIONS.

BILL OF MATERIAL

BAR	QTY.	SIZE	LENGTH	WEIGHT
A	8	#5	1'-2"	9.7
B	14	#5	5'-0"	60.3
C	26	#4	1'-6"	26.1
Y	14	#5	6'-11⅝"	101.5
STEEL TOTAL WEIGHT				217.6

CU. YDS. CLASS "AA" CONC.	2.6
CU. YDS. BRICK/FT. HT. (8")	0.53
CU. YDS. BRICK/FT. HT. (12")	0.84



NCDOT STD. DETAIL 840.54
(MANHOLE COVER & FRAME)

GENERAL NOTES

USE 4000 PSI MINIMUM COMPRESSIVE STRENGTH CONCRETE.

FABRICATE, ASSEMBLE AND DESIGN PRECAST MANHOLE COMPONENTS ACCORDANCE WITH AASHTO M199.

ASSEMBLE RISER AND GRADE RINGS WITH THE STEPS SPACED 12" FROM THE TOP TO THE BOTTOM OF THE MANHOLE.

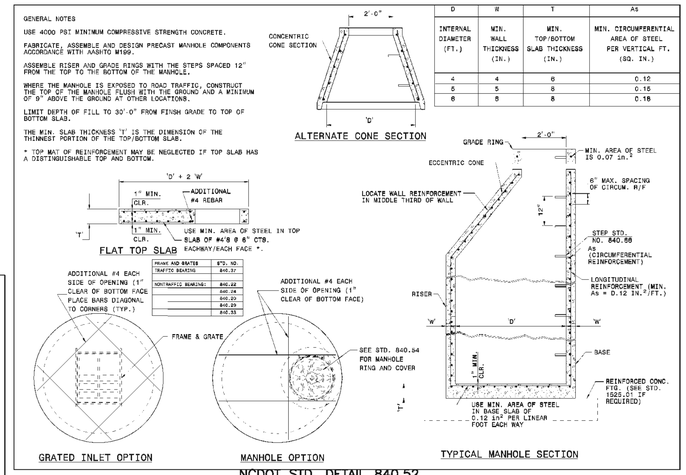
WHERE THE MANHOLE IS EXPOSED TO ROAD TRAFFIC, CONSTRUCT THE TOP OF THE MANHOLE FLUSH WITH THE GROUND AND A MINIMUM OF 9" ABOVE THE GROUND AT OTHER LOCATIONS.

LIMIT DEPTH OF FILL TO 30'-0" FROM FINISH GRADE TO TOP OF BOTTOM SLAB.

THE MIN. SLAB THICKNESS 'T' IS THE DIMENSION OF THE THINNEST PORTION OF THE TOP/BOTTOM SLAB.

* TOP MAT OF REINFORCEMENT MAY BE NEGLECTED IF TOP SLAB HAS A DISTINGUISHABLE TOP AND BOTTOM.

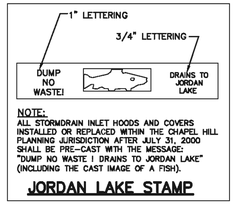
D	W	T	As
INTERNAL DIAMETER (FT.)	MIN. WALL THICKNESS (IN.)	MIN. TOP/BOTTOM SLAB THICKNESS (IN.)	MIN. CIRCUMFERENTIAL AREA OF STEEL PER VERTICAL FT. (SQ. IN.)
4	4	6	0.12
5	5	8	0.15
6	6	8	0.15



NCDOT STD. DETAIL 840.52
(USE WHERE ALL PIPE CONNECTIONS ARE NEW)

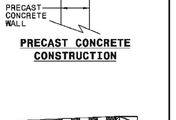
C3
C5201
STORM JUNCTION BOX
NOT TO SCALE

NOTE:
ALL STORM MANHOLES SHALL BE IMPRINTED WITH TEXT "STORM WATER — PRIVATE".



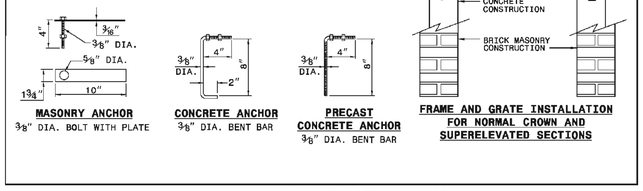
NOTE:
ALL STORMDRAIN INLET HOODS AND COVERS INSTALLED OR REPLACED WITHIN THE CHAPEL HILL PLANNING JURISDICTION AFTER JULY 31, 2000 SHALL BE PRE-CAST WITH THE MESSAGE: "DUMP NO WASTE ! DRAINS TO JORDAN LAKE" (INCLUDING THE CAST IMAGE OF A FISH).

JORDAN LAKE STAMP



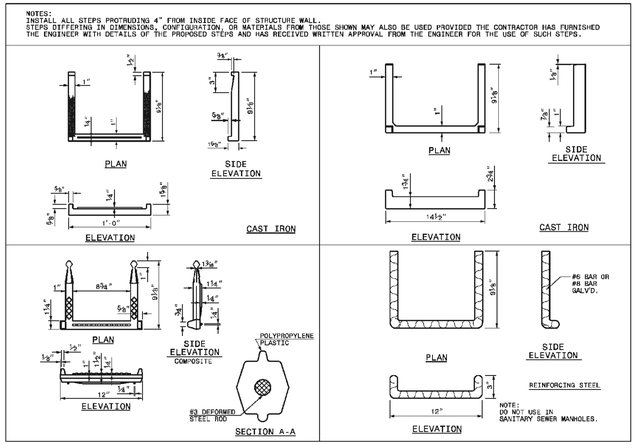
DETAIL SHOWING ANCHORAGE OF FRAME FOR GRATED DROP INLET

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

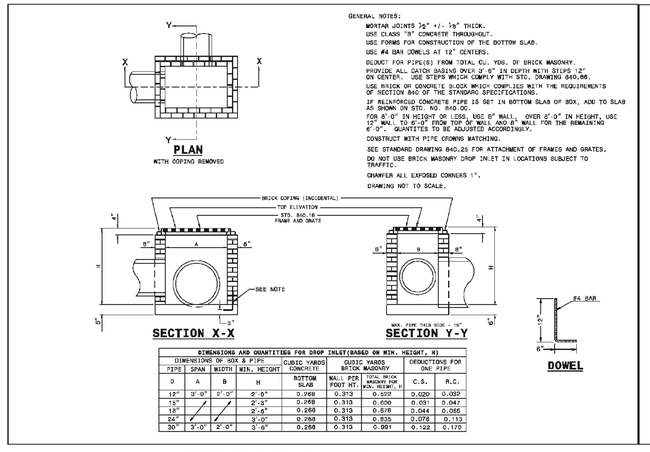


NCDOT STD. DETAIL 840.25
(ANCHORAGE FOR FRAMES)

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



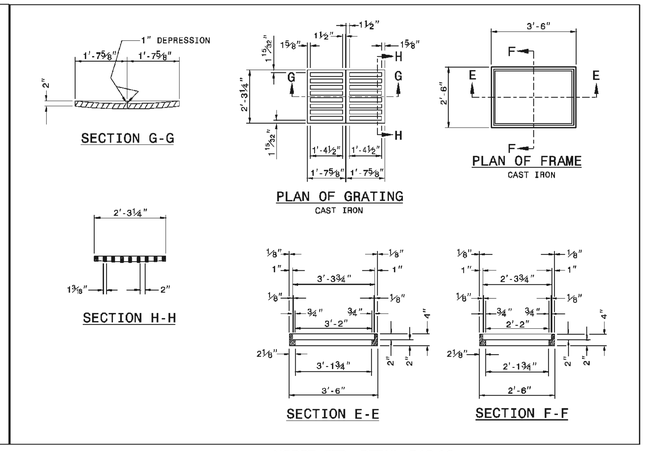
NCDOT STD. DETAIL 840.66
(DRAINAGE STRUCTURE STEPS)



DIMENSIONS AND QUANTITIES FOR DROP INLET(BASED ON MIN. HEIGHT, H)								
DIMENSIONS OF BOX & PIPE					CUBIC YARDS CONCRETE	CUBIC YARDS BRICK MASONRY		DEDUCTIONS FOR ONE PIPE
PIPE D	SPAN A	WIDTH B	MIN. HEIGHT H		BOTTOM SLAB	WALL PER FOOT HT.	TOTAL BRICK FOR MIN. HEIGHT (H)	C.S.	R.C.
12"	3'-0"	2'-0"	2'-0"		0.268	0.313	0.522	0.020	0.032
15"	/	/	2'-3"		0.268	0.313	0.550	0.031	0.047
18"	/	/	2'-6"		0.268	0.313	0.578	0.044	0.066
24"	/	/	3'-0"		0.268	0.313	0.635	0.078	0.113
30"	3'-0"	2'-0"	3'-6"		0.268	0.313	0.691	0.122	0.170

NCDOT STD. DETAIL 840.16
(BRICK DROP INLET)

A2
C5201
DROP INLET
NOT TO SCALE



NCDOT STD. DETAIL 840.16
(DROP INLET FRAME AND GRATES)

STORM DRAINAGE DETAILS

REVIEW DRAWING NOT FOR CONSTRUCTION

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NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 29127 GEORGE J. RETSCHLE

NUM	REVISIONS	DATE
1	PER TOWN OF CARRBORO COMMENTS	14 JAN 15
2	PER FINAL TOWN OF CARRBORO COMMENTS	19 MAR 15

ISSUED	DATE
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CUP SUBMITTAL #5	14 JAN 15
FINAL CUP SUBMITTAL	19 MAR 15

OWNER INFORMATION
WOODHILL NC, LLC
P.O. BOX 4022
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OWNERS REPRESENTATIVE:
RUNYON WOODS
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FAX
EMAIL runyonwoods@gmail.com

SOUTH GREEN (TRIEM)
CARRBORO, NORTH CAROLINA
CONDITIONAL USE PERMIT

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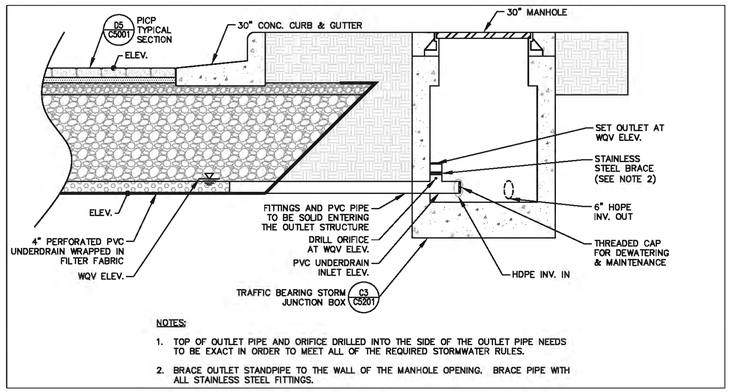
SHEET
C5201

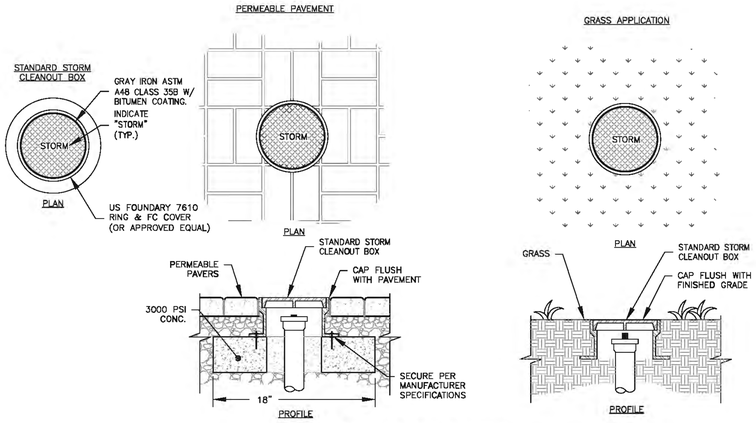


NOTES:

1. TOP OF OUTLET PIPE AND ORIFICE DRILLED INTO THE SIDE OF THE OUTLET PIPE NEEDS TO BE EXACT IN ORDER TO MEET ALL OF THE REQUIRED STORMWATER RULES.
2. BRACE OUTLET STANDPIPE TO THE WALL OF THE MANHOLE OPENING. BRACE PIPE WITH ALL STAINLESS STEEL FITTINGS.

C5 / C5202 PERMEABLE PAVEMENT OUTLET STRUCTURE

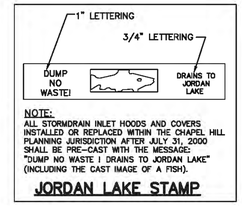
SCALE: 1" = 2'



C3 / C5202 STORM CLEANOUT BOX INSTALLATION

SCALE: N.T.S.

NOTE:
ALL STORM MANHOLES SHALL BE IMPRINTED WITH TEXT "STORM WATER – PRIVATE".



NOTE:
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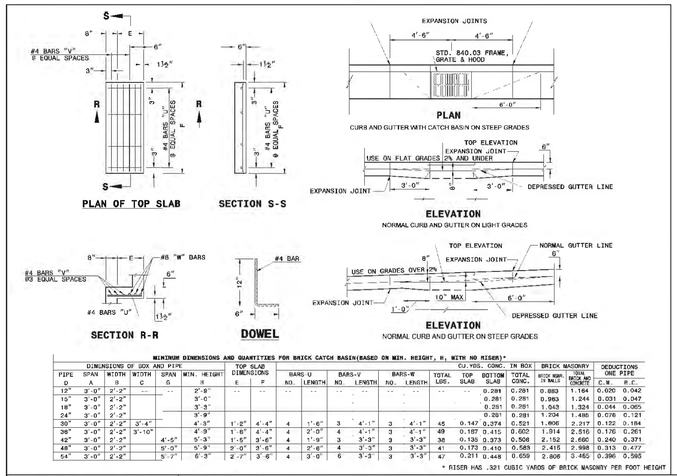
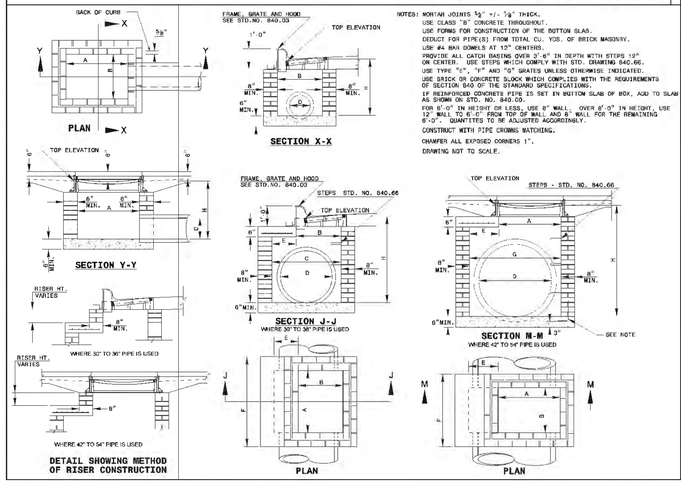
JORDAN LAKE STAMP



MINIMUM DIMENSIONS AND QUANTITIES FOR BRICK CATCH BASIN(BASED ON MIN. HEIGHT, H, WITH NO RISER)*

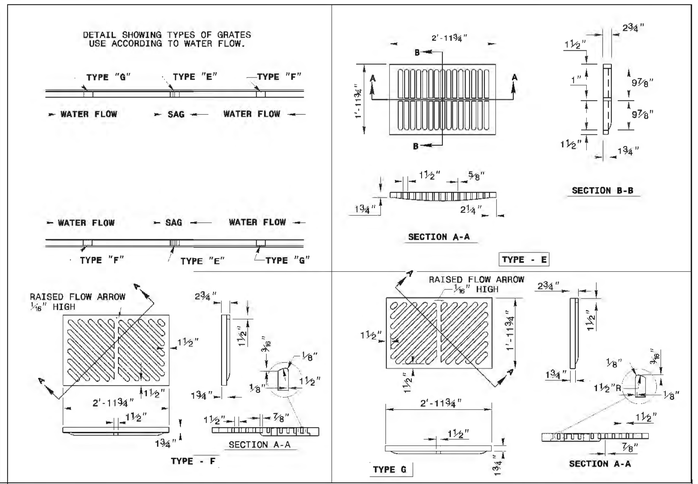
DIMENSIONS OF BOX AND PIPE						TOP SLAB DIMENSIONS		BARS-U		BARS-V		BARS-W				CU. YDS. CONC. IN BOX		BRICK MASONRY		DEDUCTIONS ONE PIPE	
PIPE	SPAN	WIDTH	WIDTH	SPAN	MIN. HEIGHT			NO.	LENGTH	NO.	LENGTH	NO.	LENGTH	TOTAL LBS.	TOP SLAB	BOTTOM SLAB	TOTAL CONC.	BRICK MASONRY IN WALLS	TOTAL BRICK NO CONCRETE	C.Y.	S.F.
D	A	B	C	G	H	E	F														
12"	3'-0"	2'-2"	---	--	2'-8"	--	--	--	--	--	--	--	--	--	--	0.291	0.781	0.883	1.164	0.030	0.042
15"	3'-0"	2'-2"			3'-0"											0.291	0.781	0.963	1.244	0.031	0.047
18"	3'-0"	2'-2"			3'-3"											0.291	0.781	1.043	1.324	0.044	0.065
24"	3'-0"	2'-2"			3'-9"											0.291	0.781	1.204	1.486	0.076	0.121
30"	3'-0"	2'-2"	3'-4"		4'-3"	1'-2"	4'-4"	4	1'-6"	3	4'-1"	3	4'-1"	45	0.147	0.274	0.521	1.906	2.217	0.122	0.184
36"	3'-0"	2'-2"	3'-10"		4'-9"	1'-6"	4'-4"	4	2'-0"	4	4'-1"	3	4'-1"	49	0.187	0.415	0.602	1.814	2.516	0.176	0.261
42"	3'-0"	2'-2"		4'-5"	5'-3"	1'-5"	5'-6"	4	1'-9"	3	3'-3"	3	3'-3"	38	0.136	0.373	0.508	2.152	2.660	0.240	0.371
48"	3'-0"	2'-2"		5'-0"	5'-9"	2'-0"	5'-6"	4	2'-6"	4	3'-3"	3	3'-3"	41	0.173	0.410	0.583	2.415	2.998	0.313	0.477
54"	3'-0"	2'-2"		5'-7"	6'-3"	2'-7"	5'-6"	4	3'-0"	6	3'-3"	3	3'-3"	47	0.211	0.448	0.659	2.606	3.465	0.396	0.595

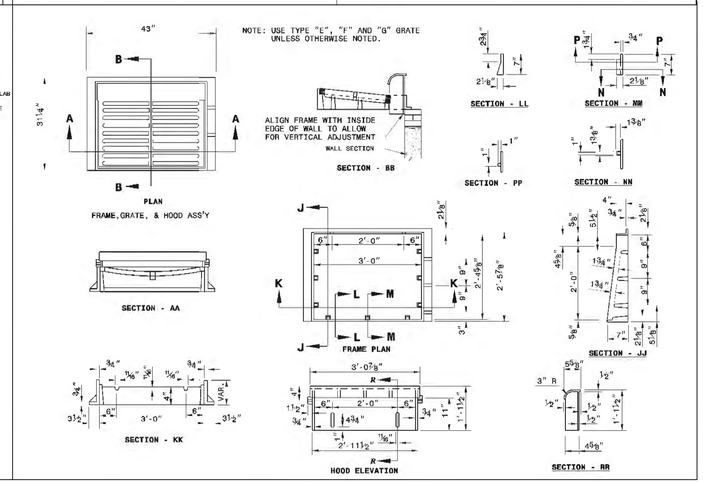
* RISER HAS .321 CUBIC YARDS OF BRICK MASONRY PER FOOT HEIGHT



NOTES: MORTAR JOINTS ½" +/- ⅛" THICK.
USE CLASS "B" CONCRETE THROUGHOUT.
USE FORMS FOR CONSTRUCTION OF THE BOTTOM SLAB.
DEDUCT FOR PIPE(S) FROM TOTAL CU. YDS. OF BRICK MASONRY.
USE #4 BAR DOWELS AT 12" CENTERS.
PROVIDE ALL CATCH BASINS OVER 2'-6" IN DEPTH WITH STEPS 12" ON CENTER. USE STEPS WHICH COMPLY WITH STD. DRAWING 840.66.
USE TYPE "E", "F" AND "G" GRATES UNLESS OTHERWISE INDICATED.
USE BRICK OR CONCRETE SLOCK WHICH COMPLIES WITH THE REQUIREMENTS OF SECTION 849 OF THE STANDARD SPECIFICATIONS.
IF REINFORCED CONCRETE PIPE IS SET IN BOTTOM SLAB OF BOX, ADD TO SLAB AS SHOWN ON STD. NO. 840.03.
FOR 6'-0" IN HEIGHT OR LESS, USE 8" WALL. OVER 6'-0" IN HEIGHT, USE 12" WALL TO 6'-6" FROM TOP OF WALL AND 8" WALL FOR THE REMAINING 6'-0". QUANTITES TO BE ADJUSTED ACCORDINGLY.
CONSTRUCT WITH PIPE CROWNS MATCHING.
CHAMFER ALL EXPOSED CORNERS 1".
DRAWING NOT TO SCALE.

NCDOT STD. DETAIL 840.01
(CATCH BASIN BASE STRUCTURE)





NCDOT STD. DETAIL 840.03
(FRAME, GRATE, AND HOOD)

A2 / C5202 CATCH BASIN

NOT TO SCALE

STORM DRAINAGE DETAILS

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BALLENTINE ASSOCIATES, P.A.
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NORTH CAROLINA PROFESSIONAL SEAL 29127 ENGINEER GEORGE J. RESCOLE

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SOUTH GREEN (TRIEM)
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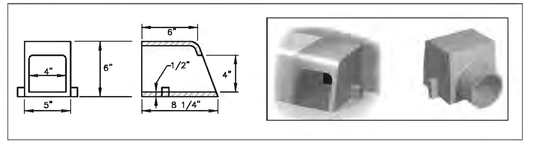
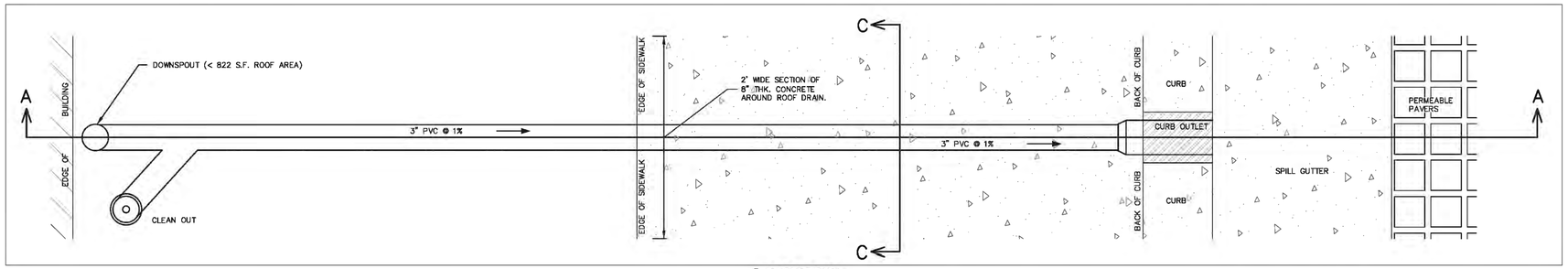
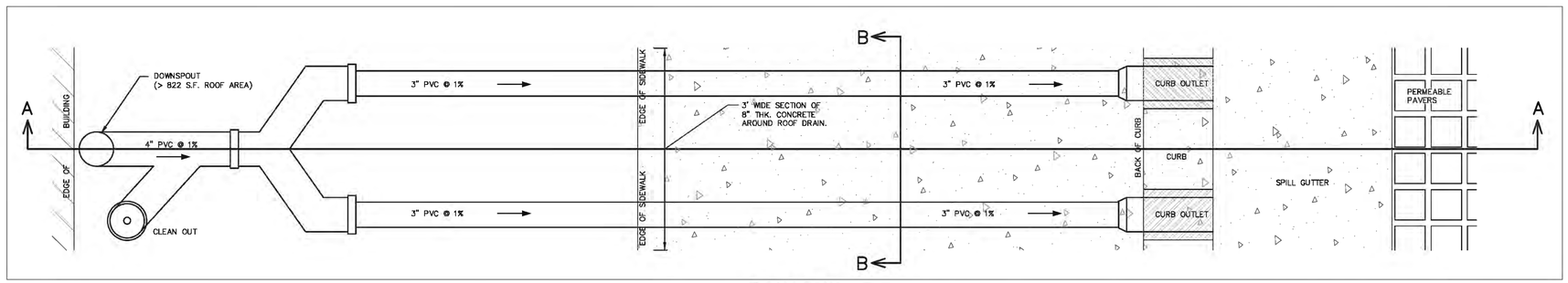


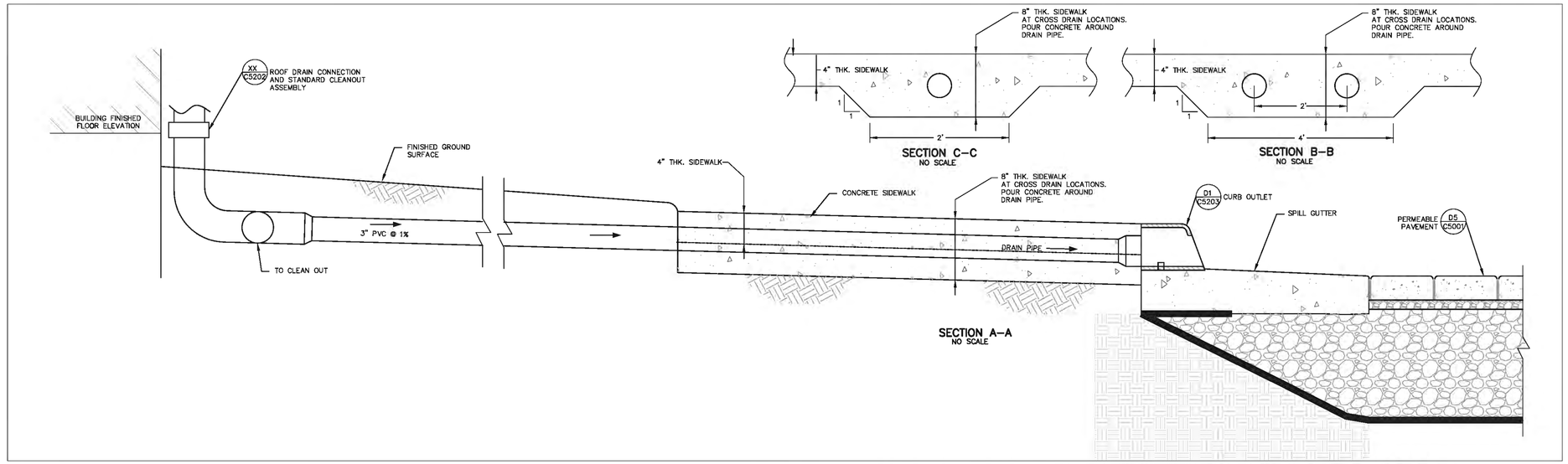
D1 C5203 ROOF DRAIN CURB OUTLET
N.T.S.



3" ROOF DRAIN
NO SCALE



4" ROOF DRAIN
NO SCALE



SECTION A–A
NO SCALE

SECTION C–C
NO SCALE

SECTION B–B
NO SCALE

A2 C5203 ROOF DRAIN THROUGH CURB & GUTTER
N.T.S.

STORM DRAINAGE DETAILS

REVIEW DRAWING
NOT FOR CONSTRUCTION

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(919) 929 - 1540 (919) 489 - 4789

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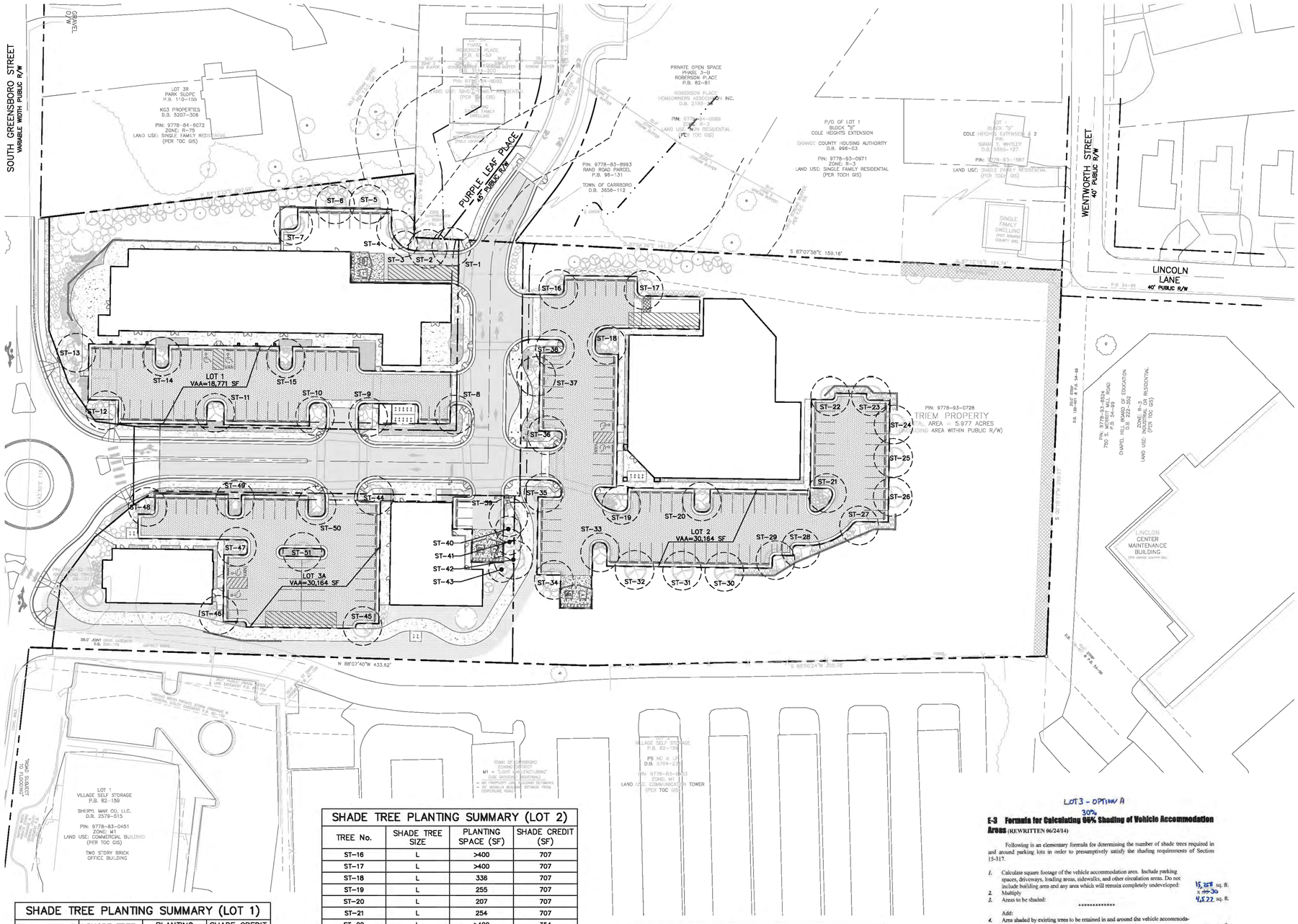
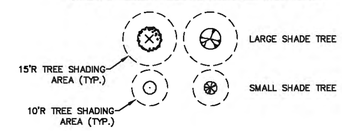


SHADE TREE PLANTING LEGEND:



LOT 1

30%

E-3 Formula for Calculating 86% Shading of Vehicle Accommodation Areas (REWRITTEN 06/24/14)

Following is an elementary formula for determining the number of shade trees required in and around parking lots in order to presumptively satisfy the shading requirements of Section 15-317.

1.	Calculate square footage of the vehicle accommodation area. Include parking spaces, driveways, loading areas, sidewalks, and other circulation areas. Do not include building area and any area which will remain completely undeveloped:	18,771 sq. ft.
2.	Multiply	x ~~30~~ 30
3.	Areas to be shaded:	5,631 sq. ft.
	**********	
	Add:	
4.	Area shaded by existing trees to be retained in and around the vehicle accommodation area:*	0 sq. ft.
5.	Area shaded by required screening trees, if any:*	0 sq. ft.
6.	Area shaded by required street trees, if any:*	0 sq. ft.
7.	Subtotal: (if line #7 is greater than line #3, then the shading requirement has been met. If not, go on to line #8)	0 sq. ft.
8.	Enter the difference between line #7 and line #3:	5,631 sq. ft.
9.	Divide line #8:	÷ 707
10.	Total number of shade trees required within the vehicle accommodation area:	7.96 trees

ROUND 8 LARGE TREES

* SEE SHADE TREE PLANTING SUMMARY

*Existing trees retained in compliance with Section 15-316 will be credited according to their actual crown radius. Shaded area may be calculated as follows:
3.14 x (crown radius)^2 = shaded area

Trees planted within the vehicle accommodation area are credited with shading 707 sq. ft. (Based on a crown radius of 15) New or existing trees on the perimeter of the parking lot are credited for having only half a crown over the vehicle accommodation area (e.g., new perimeter trees will be credited for shading 354 sq. ft.). Generally, all trees planted in compliance with the screening requirements of Article XIX, Part I and the street tree requirements of Section 15-315 will be considered perimeter trees. When smaller trees such as Dogwoods are planted, the credited shading area will be adjusted downward to 314 sq. ft. for interior trees and 157 sq. ft. for perimeter trees. (Based on a crown radius of 10 ft.) **(REWRITTEN 06/24/14)**

LOT 2

30%

E-3 Formula for Calculating 86% Shading of Vehicle Accommodation Areas (REWRITTEN 06/24/14)

Following is an elementary formula for determining the number of shade trees required in and around parking lots in order to presumptively satisfy the shading requirements of Section 15-317.

1.	Calculate square footage of the vehicle accommodation area. Include parking spaces, driveways, loading areas, sidewalks, and other circulation areas. Do not include building area and any area which will remain completely undeveloped:	30,164 sq. ft.
2.	Multiply	x ~~30~~ 30
3.	Areas to be shaded:	9,049 sq. ft.
	**********	
	Add:	
4.	Area shaded by existing trees to be retained in and around the vehicle accommodation area:*	0 sq. ft.
5.	Area shaded by required screening trees, if any:*	0 sq. ft.
6.	Area shaded by required street trees, if any:*	0 sq. ft.
7.	Subtotal: (if line #7 is greater than line #3, then the shading requirement has been met. If not, go on to line #8)	0 sq. ft.
8.	Enter the difference between line #7 and line #3:	9,049 sq. ft.
9.	Divide line #8:	÷ 707
10.	Total number of shade trees required within the vehicle accommodation area:	12.80 trees

* 13 LARGE SHADE TREES AWARDED

* SEE SHADE TREE PLANTING SUMMARY

*Existing trees retained in compliance with Section 15-316 will be credited according to their actual crown radius. Shaded area may be calculated as follows:
3.14 x (crown radius)^2 = shaded area

Trees planted within the vehicle accommodation area are credited with shading 707 sq. ft. (Based on a crown radius of 15) New or existing trees on the perimeter of the parking lot are credited for having only half a crown over the vehicle accommodation area (e.g., new perimeter trees will be credited for shading 354 sq. ft.). Generally, all trees planted in compliance with the screening requirements of Article XIX, Part I and the street tree requirements of Section 15-315 will be considered perimeter trees. When smaller trees such as Dogwoods are planted, the credited shading area will be adjusted downward to 314 sq. ft. for interior trees and 157 sq. ft. for perimeter trees. (Based on a crown radius of 10 ft.) **(REWRITTEN 06/24/14)**

4

SHADE TREE PLANTING SUMMARY (LOT 1)

TREE No.	SHADE TREE SIZE	PLANTING SPACE (SF)	SHADE CREDIT (SF)
ST-1	L	>400	354
ST-2	L	>400	354
ST-3	S	>400	157
ST-4	L	>400	354
ST-5	L	>400	354
ST-6	L	>400	354
ST-7	L	210	707
ST-8	L	>400	707
ST-9	L	223	354
ST-10	L	>400	707
ST-11	L	>400	707
ST-12	L	>400	354
ST-13	L	>400	354
ST-14	L	309	707
ST-15	L	309	707
TOTAL AREA SHADED BY TREES IN VAA			7,231
TOTAL % VAA SHADED			38.52%

SHADE TREE PLANTING SUMMARY (LOT 2)

TREE No.	SHADE TREE SIZE	PLANTING SPACE (SF)	SHADE CREDIT (SF)
ST-16	L	>400	707
ST-17	L	>400	707
ST-18	L	336	707
ST-19	L	255	707
ST-20	L	207	707
ST-21	L	254	707
ST-22	L	>400	354
ST-23	L	>400	354
ST-24	L	>400	354
ST-25	L	>400	354
ST-26	L	>400	354
ST-27	L	>400	354
ST-28	L	>400	707
ST-29	L	>400	707
ST-30	L	>400	354
ST-31	L	>400	354
ST-32	L	>400	707
ST-33	L	>400	707
ST-34	L	>400	354
ST-35	L	>400	707
ST-36	L	309	707
ST-37	L	309	354
ST-38	L	309	707
TOTAL AREA SHADED BY TREES IN VAA			12,378
TOTAL % VAA SHADED			41.04%

SHADE TREE PLANTING SUMMARY (LOT 3A)

TREE No.	SHADE TREE SIZE	PLANTING SPACE (SF)	SHADE CREDIT (SF)
ST-39	L	248	354
ST-40	S	248	157
ST-41	S	248	157
ST-42	L	248	354
ST-43	S	248	157
ST-44	L	244	354
ST-45	L	>400	354
ST-46	L	>400	354
ST-47	L	204	707
ST-48	L	>400	707
ST-49	L	>400	707
ST-50	L	>400	707
ST-51	L	205	707
TOTAL AREA SHADED BY TREES IN VAA			5,776
TOTAL % VAA SHADED			37.86%

LOT 3 - OPTION A

30%

E-3 Formula for Calculating 86% Shading of Vehicle Accommodation Areas (REWRITTEN 06/24/14)

Following is an elementary formula for determining the number of shade trees required in and around parking lots in order to presumptively satisfy the shading requirements of Section 15-317.

1.	Calculate square footage of the vehicle accommodation area. Include parking spaces, driveways, loading areas, sidewalks, and other circulation areas. Do not include building area and any area which will remain completely undeveloped:	15,258 sq. ft.
2.	Multiply	x ~~30~~ 30
3.	Areas to be shaded:	4,577 sq. ft.
	**********	
	Add:	
4.	Area shaded by existing trees to be retained in and around the vehicle accommodation area:*	0 sq. ft.
5.	Area shaded by required screening trees, if any:*	0 sq. ft.
6.	Area shaded by required street trees, if any:*	0 sq. ft.
7.	Subtotal: (if line #7 is greater than line #3, then the shading requirement has been met. If not, go on to line #8)	0 sq. ft.
8.	Enter the difference between line #7 and line #3:	4,577 sq. ft.
9.	Divide line #8:	÷ 707
10.	Total number of shade trees required within the vehicle accommodation area:	6.47 trees

* AWARD 7 LARGE TREES

* SEE SHADE TREE PLANTING SUMMARY

*Existing trees retained in compliance with Section 15-316 will be credited according to their actual crown radius. Shaded area may be calculated as follows:
3.14 x (crown radius)^2 = shaded area

Trees planted within the vehicle accommodation area are credited with shading 707 sq. ft. (Based on a crown radius of 15) New or existing trees on the perimeter of the parking lot are credited for having only half a crown over the vehicle accommodation area (e.g., new perimeter trees will be credited for shading 354 sq. ft.). Generally, all trees planted in compliance with the screening requirements of Article XIX, Part I and the street tree requirements of Section 15-315 will be considered perimeter trees. When smaller trees such as Dogwoods are planted, the credited shading area will be adjusted downward to 314 sq. ft. for interior trees and 157 sq. ft. for perimeter trees. (Based on a crown radius of 10 ft.) **(REWRITTEN 06/24/14)**

4

NC GRID NAD 83

TREE SHADING PLAN - OPTION A

40 0 20 40 80

(GRAPHIC SCALE IN FEET)
1 inch = 40 ft.

REVIEW DRAWING NOT FOR CONSTRUCTION

BALLENTINE ASSOCIATES, P.A.
211 N. COLUMBIA STREET, CHAPEL HILL, N.C. 27514
(919) 929 - 0481 (919) 968 - 4769

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Ballentine Associates, P.A. CORPORATE SEAL C3528 NORTH CAROLINA Chapel Hill

NORTH CAROLINA PROFESSIONAL SEAL 029127 ENGINEER GEORGE J. RESCOLE

ISSUED	DATE
CUP SUBMITTAL #4	21 NOV 14
CUP SUBMITTAL #5	14 JAN 15
FINAL CUP SUBMITTAL	19 MAR 15

NUM	REVISIONS	DATE
1	PER TOWN OF CARRBORO COMMENTS	14 JAN 15
2	PER FINAL TOWN OF CARRBORO COMMENTS	19 MAR 15

OWNER INFORMATION
WOODHILL NC, LLC
P.O. BOX 4022
CHAPEL HILL, NC 27515

OWNERS REPRESENTATIVE:
RUNYON WOODS
PH. (919) 418-2121
FAX
EMAIL runyonwoods@gmail.com

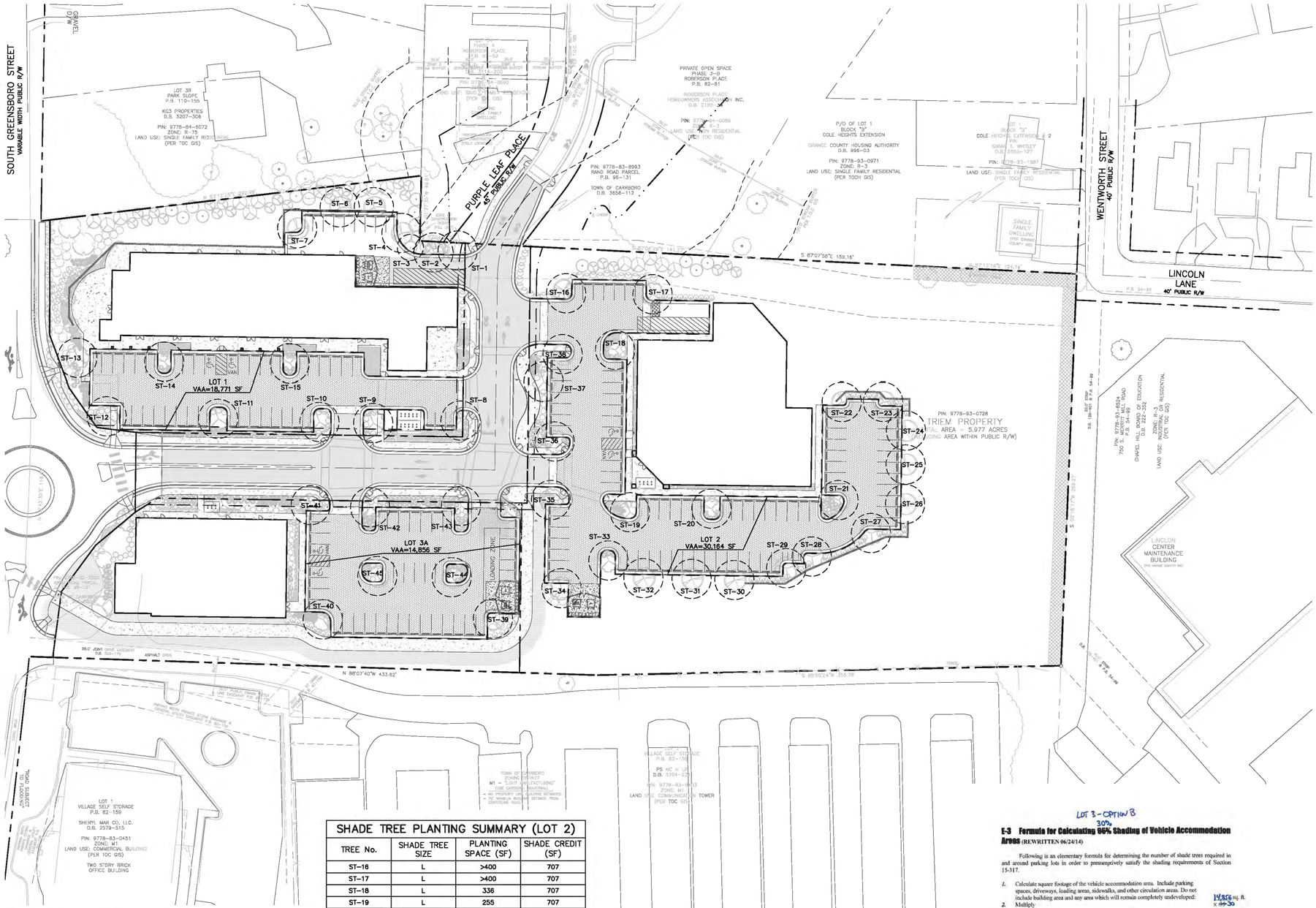
SOUTH GREEN (TRIEM)

CARRBORO, NORTH CAROLINA

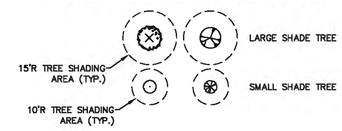
CONDITIONAL USE PERMIT

JOB NUMBER: 114023.00
DATE: 21 NOV 2014
SCALE: AS NOTED
DRAWN BY: S.R.M.
REVIEWED BY: G.J.R.

SHEET
TS01



SHADE TREE PLANTING LEGEND:



LOT 1

30%

E-3 Formula for Calculating 86% Shading of Vehicle Accommodation Areas (REWRITTEN 06/24/14)

Following is an elementary formula for determining the number of shade trees required in and around parking lots in order to presumptively satisfy the shading requirements of Section 15-317.

1. Calculate square footage of the vehicle accommodation area. Include parking spaces, driveways, loading areas, sidewalks, and other circulation areas. Do not include building area and any area which will remain completely undeveloped: 18,771 sq. ft.
2. Multiply x ~~.30~~ .30
3. Areas to be shaded: 5,631 sq. ft.

****

Add:

4. Area shaded by existing trees to be retained in and around the vehicle accommodation area:* 0 sq. ft.
5. Area shaded by required screening trees, if any:* 0 sq. ft.
6. Area shaded by required street trees, if any:* 0 sq. ft.
7. Subtotal: 0 sq. ft.
   (if line #7 is greater than line #3, then the shading requirement has been met. If not, go on to line #8)
8. Enter the difference between line #7 and line #3: 5,631 sq ft.
9. Divide line #8: ÷ 707
10. Total number of shade trees required within the vehicle accommodation area: 7.96 trees
    ROUND 8 LARGE TREES

* SEE SHADE TREE PLANTING SUMMARY

*Existing trees retained in compliance with Section 15-316 will be credited according to their actual crown radius. Shaded area may be calculated as follows:
3.14 x (crown radius)^2 = shaded area

Trees planted within the vehicle accommodation area are credited with shading 707 sq. ft. (Based on a crown radius of 15) New or existing trees on the perimeter of the parking lot are credited for having only half a crown over the vehicle accommodation area (e.g., new perimeter trees will be credited for shading 354 sq. ft.). Generally, all trees planted in compliance with the screening requirements of Article XIX, Part I and the street tree requirements of Section 15-315 will be considered perimeter trees. When smaller trees such as Dogwoods are planted, the credited shading area will be adjusted downward to 314 sq. ft. for interior trees and 157 sq. ft. for perimeter trees. (Based on a crown radius of 10 ft.) **(REWRITTEN 06/24/14)**

LOT 2

30%

E-3 Formula for Calculating 86% Shading of Vehicle Accommodation Areas (REWRITTEN 06/24/14)

Following is an elementary formula for determining the number of shade trees required in and around parking lots in order to presumptively satisfy the shading requirements of Section 15-317.

1. Calculate square footage of the vehicle accommodation area. Include parking spaces, driveways, loading areas, sidewalks, and other circulation areas. Do not include building area and any area which will remain completely undeveloped: 30,164 sq. ft.
2. Multiply x ~~.30~~ .30
3. Areas to be shaded: 9,049 sq. ft.

****

Add:

4. Area shaded by existing trees to be retained in and around the vehicle accommodation area:* 0 sq. ft.
5. Area shaded by required screening trees, if any:* 0 sq. ft.
6. Area shaded by required street trees, if any:* 0 sq. ft.
7. Subtotal: 0 sq. ft.
   (if line #7 is greater than line #3, then the shading requirement has been met. If not, go on to line #8)
8. Enter the difference between line #7 and line #3: 9,049 sq ft.
9. Divide line #8: ÷ 707
10. Total number of shade trees required within the vehicle accommodation area: 12.80 trees
    #13 LARGE SHADE TREES NEEDED

* SEE SHADE TREE PLANTING SUMMARY

*Existing trees retained in compliance with Section 15-316 will be credited according to their actual crown radius. Shaded area may be calculated as follows:
3.14 x (crown radius)^2 = shaded area

Trees planted within the vehicle accommodation area are credited with shading 707 sq. ft. (Based on a crown radius of 15) New or existing trees on the perimeter of the parking lot are credited for having only half a crown over the vehicle accommodation area (e.g., new perimeter trees will be credited for shading 354 sq. ft.). Generally, all trees planted in compliance with the screening requirements of Article XIX, Part I and the street tree requirements of Section 15-315 will be considered perimeter trees. When smaller trees such as Dogwoods are planted, the credited shading area will be adjusted downward to 314 sq. ft. for interior trees and 157 sq. ft. for perimeter trees. (Based on a crown radius of 10 ft.) **(REWRITTEN 06/24/14)**

LOT 3 - OPTION B

30%

E-3 Formula for Calculating 86% Shading of Vehicle Accommodation Areas (REWRITTEN 06/24/14)

Following is an elementary formula for determining the number of shade trees required in and around parking lots in order to presumptively satisfy the shading requirements of Section 15-317.

1. Calculate square footage of the vehicle accommodation area. Include parking spaces, driveways, loading areas, sidewalks, and other circulation areas. Do not include building area and any area which will remain completely undeveloped: 14,856 sq. ft.
2. Multiply x ~~.30~~ .30
3. Areas to be shaded: 4,457 sq. ft.

****

Add:

4. Area shaded by existing trees to be retained in and around the vehicle accommodation area:* 0 sq. ft.
5. Area shaded by required screening trees, if any:* 0 sq. ft.
6. Area shaded by required street trees, if any:* 0 sq. ft.
7. Subtotal: 0 sq. ft.
   (if line #7 is greater than line #3, then the shading requirement has been met. If not, go on to line #8)
8. Enter the difference between line #7 and line #3: 4,457 sq ft.
9. Divide line #8: ÷ 707
10. Total number of shade trees required within the vehicle accommodation area: 6.30 trees
    #NEED 7 LARGE TREES

* SEE SHADE TREE PLANTING SUMMARY

*Existing trees retained in compliance with Section 15-316 will be credited according to their actual crown radius. Shaded area may be calculated as follows:
3.14 x (crown radius)^2 = shaded area

Trees planted within the vehicle accommodation area are credited with shading 707 sq. ft. (Based on a crown radius of 15) New or existing trees on the perimeter of the parking lot are credited for having only half a crown over the vehicle accommodation area (e.g., new perimeter trees will be credited for shading 354 sq. ft.). Generally, all trees planted in compliance with the screening requirements of Article XIX, Part I and the street tree requirements of Section 15-315 will be considered perimeter trees. When smaller trees such as Dogwoods are planted, the credited shading area will be adjusted downward to 314 sq. ft. for interior trees and 157 sq. ft. for perimeter trees. (Based on a crown radius of 10 ft.) **(REWRITTEN 06/24/14)**

SHADE TREE PLANTING SUMMARY (LOT 1)

TREE No.	SHADE TREE SIZE	PLANTING SPACE (SF)	SHADE CREDIT (SF)
ST-1	L	>400	354
ST-2	L	>400	354
ST-3	S	>400	157
ST-4	L	>400	354
ST-5	L	>400	354
ST-6	L	>400	354
ST-7	L	210	707
ST-8	L	>400	707
ST-9	L	223	354
ST-10	L	>400	707
ST-11	L	>400	707
ST-12	L	>400	354
ST-13	L	>400	354
ST-14	L	309	707
ST-15	L	309	707
TOTAL AREA SHADED BY TREES IN VAA			7,231
TOTAL % VAA SHADED			38.52%

SHADE TREE PLANTING SUMMARY (LOT 2)

TREE No.	SHADE TREE SIZE	PLANTING SPACE (SF)	SHADE CREDIT (SF)
ST-16	L	>400	707
ST-17	L	>400	707
ST-18	L	336	707
ST-19	L	255	707
ST-20	L	207	707
ST-21	L	254	707
ST-22	L	>400	354
ST-23	L	>400	354
ST-24	L	>400	354
ST-25	L	>400	354
ST-26	L	>400	354
ST-27	L	>400	354
ST-28	L	>400	707
ST-29	L	>400	707
ST-30	L	>400	354
ST-31	L	>400	354
ST-32	L	>400	354
ST-33	L	>400	707
ST-34	L	>400	354
ST-35	L	>400	707
ST-36	L	309	707
ST-37	L	309	354
ST-38	L	309	707
TOTAL AREA SHADED BY TREES IN VAA			12,378
TOTAL % VAA SHADED			41.04%

SHADE TREE PLANTING SUMMARY (LOT 3B)

TREE No.	SHADE TREE SIZE	PLANTING SPACE (SF)	SHADE CREDIT (SF)
ST-39	L	392	707
ST-40	L	>400	707
ST-41	L	>400	707
ST-42	L	>400	707
ST-43	L	>400	707
ST-44	L	204	707
ST-45	L	204	707
TOTAL AREA SHADED BY TREES IN VAA			4,949
TOTAL % VAA SHADED			33.31%

NC GRID NAD 83

TREE SHADING PLAN - OPTION B

40 0 20 40 80

(GRAPHIC SCALE IN FEET)
1 inch = 40 ft.

REVIEW DRAWING
NOT FOR CONSTRUCTION

BALLENTINE ASSOCIATES, P.A.
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(919) 929 - 0481 (919) 490 - 4789

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Ballentine Associates, P.A. CORPORATE SEAL C3528 NORTH CAROLINA Chapel Hill

NORTH CAROLINA PROFESSIONAL SEAL 29127 ENGINEER GEORGE J. RESCOLE

NUM	REVISIONS	DATE
1	PER TOWN OF CARRBORO COMMENTS	14 JAN 15
2	PER FINAL TOWN OF CARRBORO COMMENTS	19 MAR 15

OWNER INFORMATION
WOODHILL NC, LLC
P.O. BOX 4022
CHAPEL HILL, NC 27515

OWNERS REPRESENTATIVE:
RUNYON WOODS
PH. (919) 418-2121
FAX
EMAIL runyonwoods@gmail.com

ISSUED	DATE
CUP SUBMITTAL #4	21 NOV 14
CUP SUBMITTAL #5	14 JAN 15
FINAL CUP SUBMITTAL	19 MAR 15

SOUTH GREEN (TRIEM)
CARRBORO, NORTH CAROLINA
CONDITIONAL USE PERMIT

JOB NUMBER: 114023.00
DATE: 21 NOV 2014
SCALE: AS NOTED
DRAWN BY: S.R.M.
REVIEWED BY: G.J.R.

SHEET
TS02

261'-6"

27'-0" | 15'-0" | 28'-6" | 28'-6" | 27'-0" | 28'-6" | 28'-6" | 28'-6" | 27'-0"

13'-6"

A-6.1 / 3

A-4 / 1

15,430 sf 1 Story

63'-8"

2 / A-6.1

2 / A-6.1

24'-0"

UP

30'-0"

67'-0"

33'-8"

4'-0"

16'-0"

h/c h/c

1 / A-6.1

1 / A-6.1

1 / A-6.1

9'-0" | 30'-0" | 69'-0" | 30'-0" | 82'-6" | 30'-0" | 23'-6"

273'-6"

1 / A-1.1 Floor Plan
Scale: 1/8" = 1'-0"

1 / A-5.1

SOUTH GREEN
SHOPPING DINING

501 South Greensboro Street
CARRBORO, NORTH CAROLINA

Proto

Architectural Group PA
ARCHITECTURE - PLANNING - INTERIOR ARCHITECTURE
2321 Blue Ridge Road, Suite 201, Raleigh, North Carolina 27607
919 786 0229 Fax 919 786 0159 lineberrygroup.com

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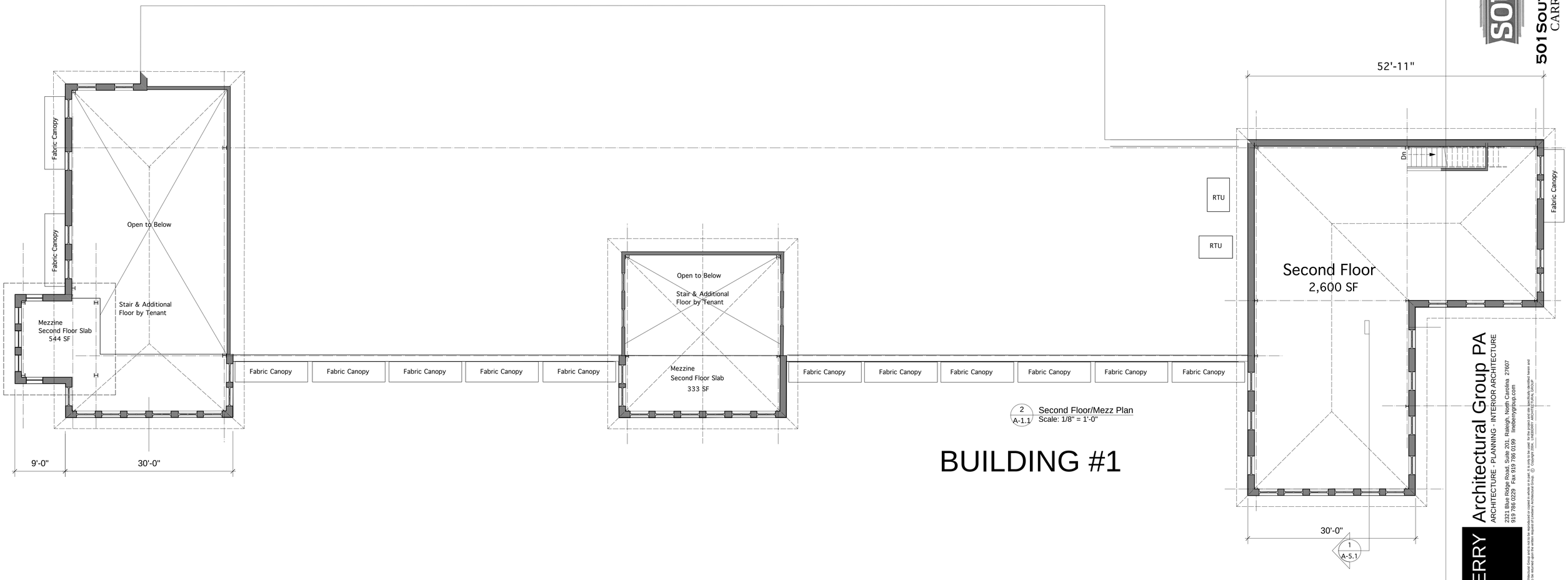
LINEBERRY

Project Number : 1330.1
Drawn By: TJL
Date: 18 Nov 2014

A-1.1



2 A-1.1 Second Floor/Mezz Plan
Scale: 1/8" = 1'-0"

BUILDING #1

SOUTH GREEN
SHOPPING DINING

501 South Greensboro Street
CARRBORO, NORTH CAROLINA

Architectural Group PA
ARCHITECTURE - PLANNING - INTERIOR ARCHITECTURE
2231 Blue Ridge Road, Suite 201, Raleigh, North Carolina 27607
919 786 0229 Fax 919 786 0199 lineberry@arp.com

LINEBERRY

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Project Number : 1330.1
Drawn By: TJL
Date: 18 Nov 2014

A-2.1

Lot One - Building One
West Side Signage

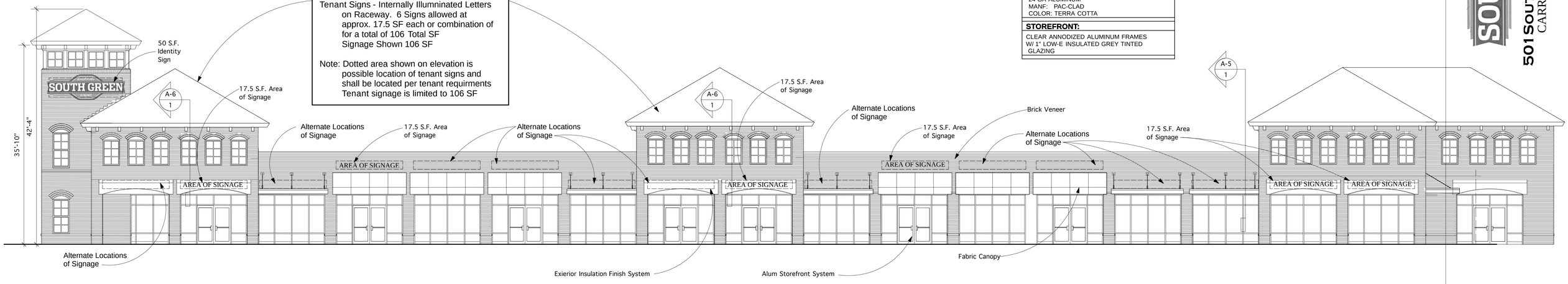
South Side Frontage = 148 LF
Sign Allowance = 156 SF

Signage Type:
Identity Sign - Internally Illumninated Sign as shown. 50 SF max
Tenant Signs - Internally Illuminated Letters on Raceway. 6 Signs allowed at approx. 17.5 SF each or combination of for a total of 106 Total SF
Signage Shown 106 SF

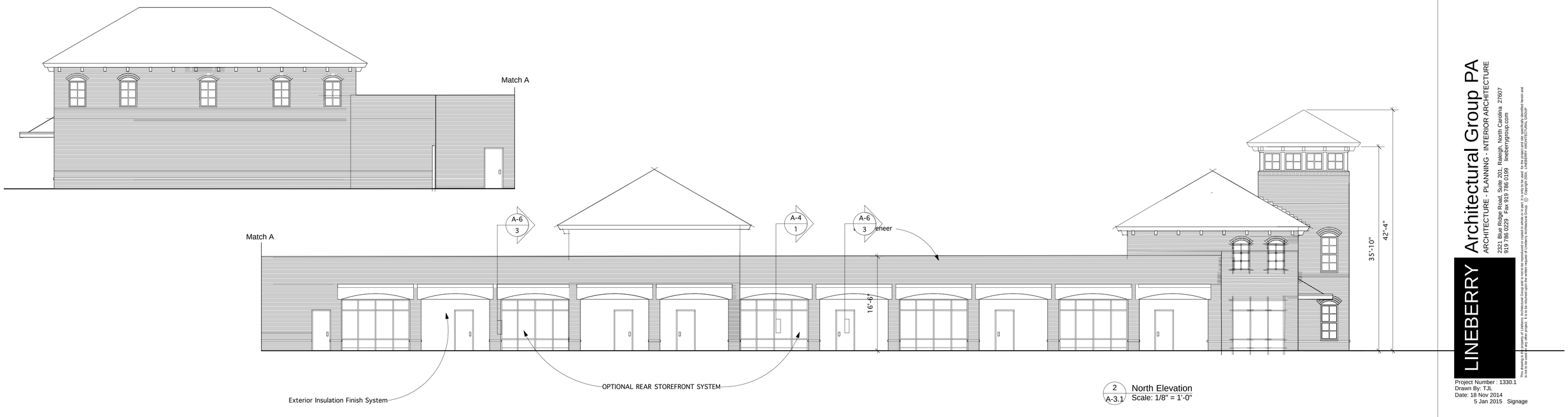
Note: Dotted area shown on elevation is possible location of tenant signs and shall be located per tenant requirments Tenant signage is limited to 106 SF

EXTERIOR FINISHES:

BRICK # 1: FIELD BRICK
MANF: BORAL COLOR: FULL RANGE (WIRECUT MODULAR)
BRICK # 2: ACCENT BRICK
MANF: BORAL COLOR: RED (WIRECUT MODULAR)
EIFS #1:
MANF: DRYVIT COLOR: CHINA WHITE (SAND PEBBLE FINE)
BREAK METAL CAP FLASHING:
24 GA ALUMINUM MANF: PAC-CLAD COLOR: TERRA COTTA
STOREFRONT:
CLEAR ANNODIZED ALUMINUM FRAMES W/ 1" LOW-E INSULATED GREY TINTED GLAZING



1 A-3.1 South Elevation
Scale: 1/8" = 1'-0"



2 A-3.1 North Elevation
Scale: 1/8" = 1'-0"

BUILDING #1

A-3.1

SHOPPING SOUTH GREEN DINING

501 SOUTH GREENSBORO STREET
CARRBORO, NORTH CAROLINA

LINEBERRY Architectural Group PA
ARCHITECTURE - PLANNING - INTERIOR ARCHITECTURE
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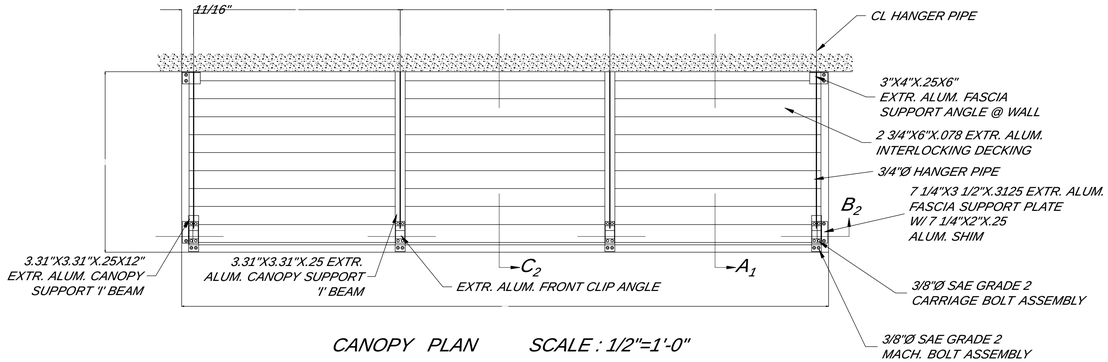
Project Number : 1330.1
Drawn By: TJL
Date: 18 Nov 2014
5 Jan 2015 Signage



CANOPY PLAN SCALE : 1/2"=1'-0"

NOTES:

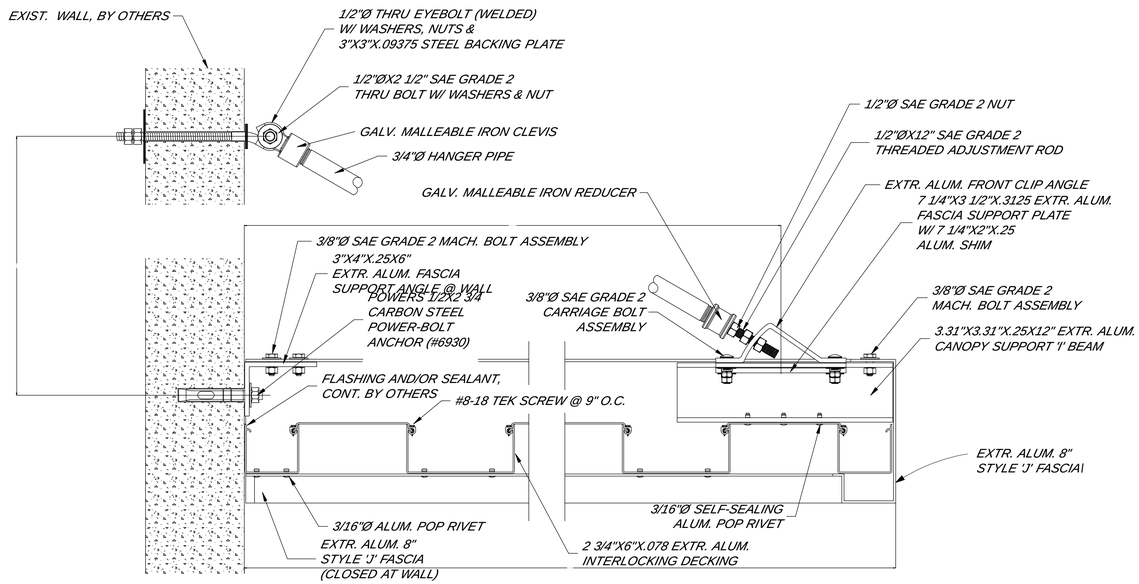
FINISH SHALL BE CLEAR ANODIZED

VERIFY ALL DIMENSIONS

FLASHING & SEALANT, CONT. BY OTHERS

ALL FASTENER HOLES NOT OTHERWISE NOTED TO BE FIELD DRILLED

ALL FASTENERS NOT OTHERWISE NOTED ARE CADMIUM PLATED FERROUS OR ALUMINUM



SECTION A SCALE : 3"=1'-0"

3 A-4.1 Alumn Canopy Detail
Scale: 3" = 1'-0"

Lot One - Building One
West Side Signage

West Side Frontage = 172 LF
Sign Allowance = 87.5 SF

Signage Type:
Identity Sign - Internally Illumninated Sign as shown. 50 SF max
Tenant Sign - Internally Illumninated Letters on Raceway. 2 Signs allowed at approx. 18 SF each for a total of 37.5
Total SF Signage Shown 87.5 SF

Note: Dotted area shown on elevation is possible location of tenant signs and shall be located per tenant requirments Tenant signage is limited to 37.5

2 A-4.1 Front Elevation
Scale: 1/8" = 1'-0"

Lot One - Building One
East Side Signage

West Side Frontage = 148 LF
Sign Allowance = 74 SF
ATM -24 SF
Building Signage 50 SF Allowed

Signage Type:

Tenant Sign - Internally Illumninated Letters on Raceway. 2 Signs allowed at approx. 25 SF each for a total of 50 SF
ATM Signage on Lot One 24 SF
Total SF Signage w/ ATM 74 SF

Note: Dotted area shown on elevation is possible location of tenant signs and shall be located per tenant requirments Tenant signage is limited to 50 SF

1 A-4.1 East Elevation
Scale: 1/8" = 1'-0"

BUILDING #1

SOUTH GREEN
SHOPPING DINING
501 South Greensboro Street
CARRBORO, NORTH CAROLINA

Architectural Group PA
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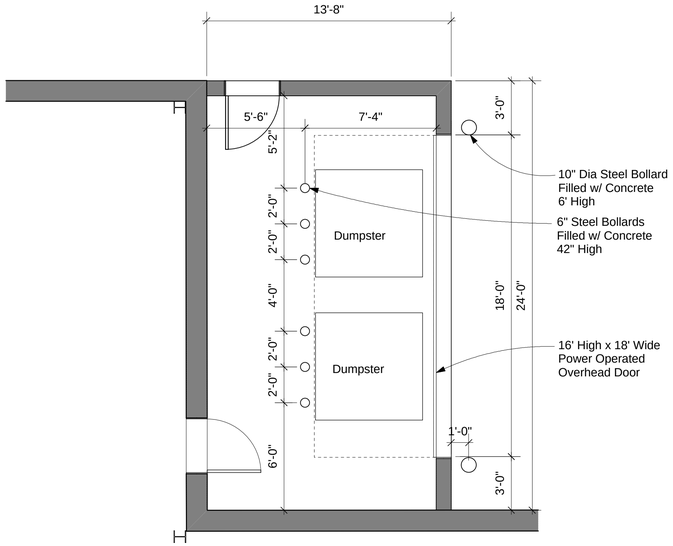
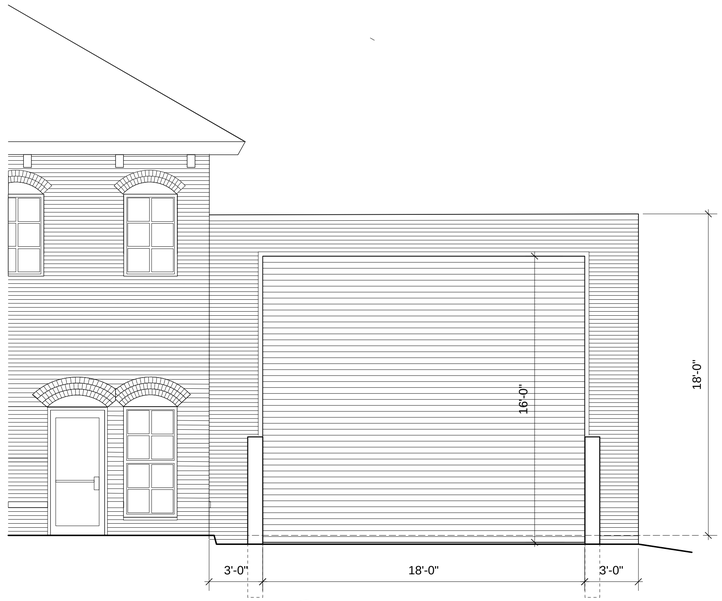
Project Number : 1330.1
Drawn By: TJL
Date: 18 Nov 2014
7 Jan 2015 Signage

A-4.1

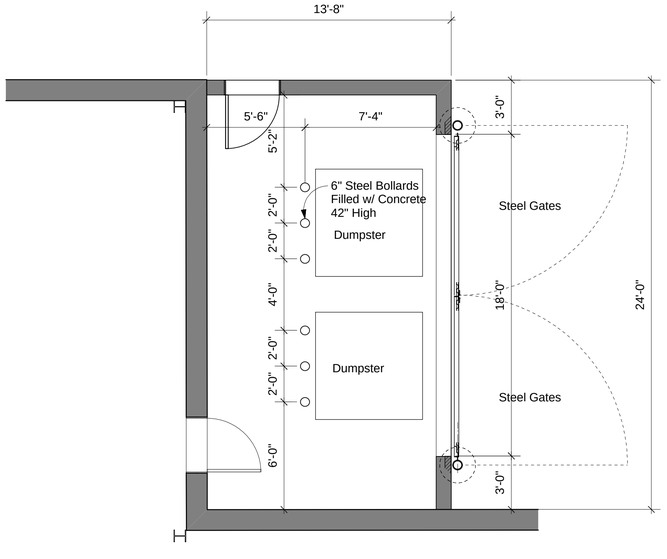


1 A-7.1 Dumpster Overhead Door Plan Option 1
Scale: 1/4" = 1'-0"

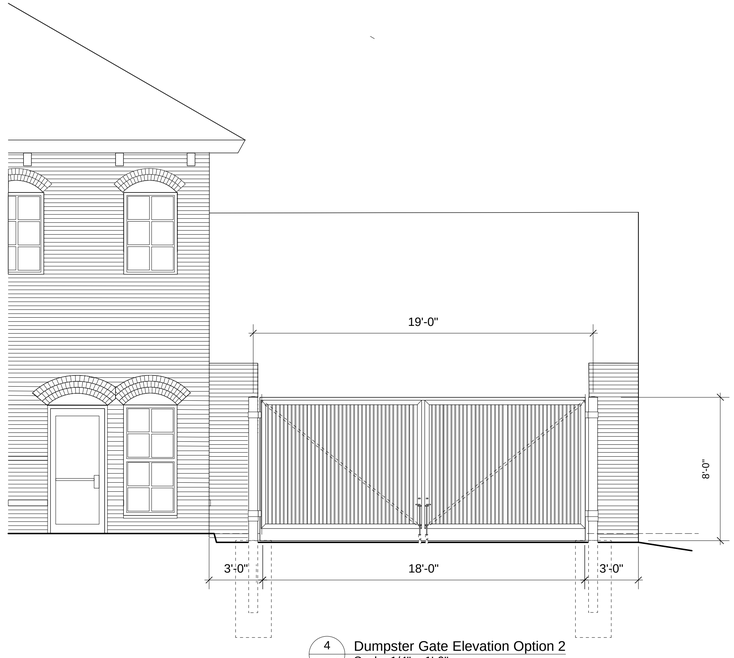


2 A-7.1 Dumpster Overhead Door Elevation Option 1
Scale: 1/4" = 1'-0"

Option #1



3 A-7.1 Dumpster Gate Plan Option 2
Scale: 1/4" = 1'-0"



4 A-7.1 Dumpster Gate Elevation Option 2
Scale: 1/4" = 1'-0"

Option #2

BUILDING 1 DUMPSTER SCREEN

SOUTH GREEN
SHOPPING
DINING

501 South Greensboro Street
Carrboro, North Carolina

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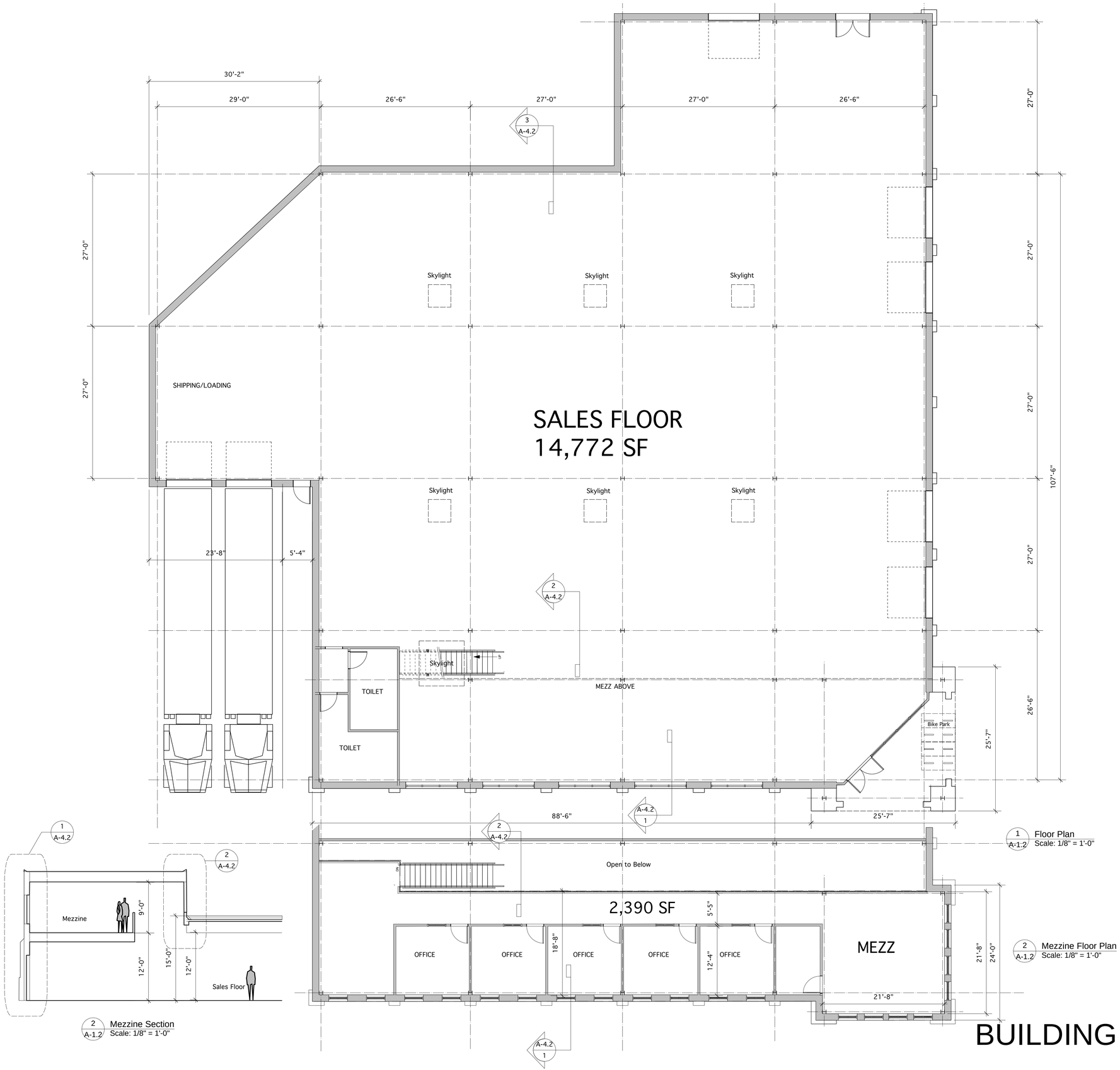
Project Number : 1330.1
Drawn By: TJL
Date: 6 Feb 2015

A-7.1



1 A-1.2 Floor Plan
Scale: 1/8" = 1'-0"

2 A-1.2 Mezzine Floor Plan
Scale: 1/8" = 1'-0"

2 A-1.2 Mezzine Section
Scale: 1/8" = 1'-0"

BUILDING #2

A-1.2

SHOPPING SOUTH GREEN DINING

501 South Greensboro Street
CARRBORO, NORTH CAROLINA

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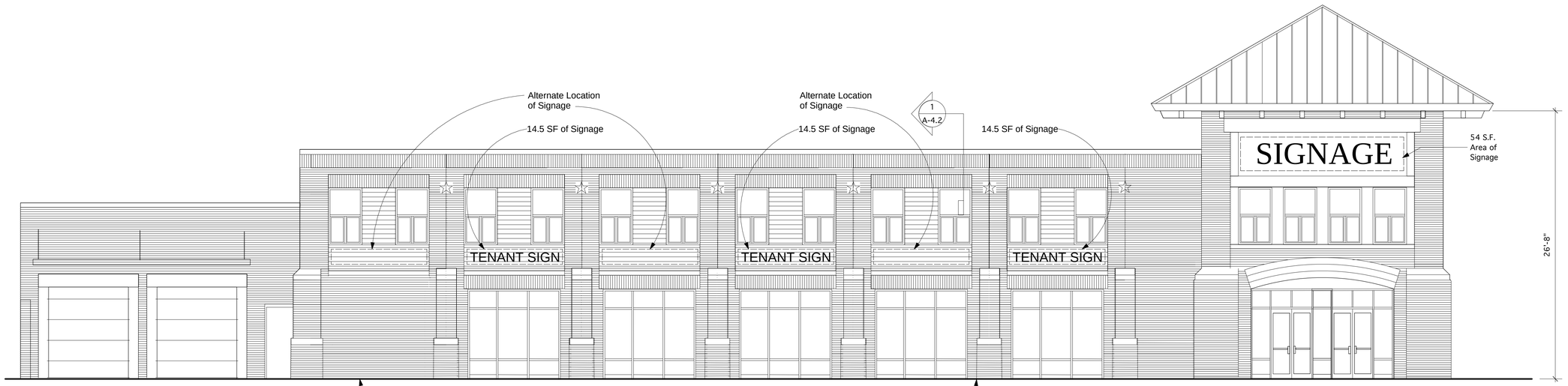
Project Number : 1330.2
Drawn By: TJL
Date: 18 Nov 2014



1 A-3.2 Front Elevation
Scale: 3/16" = 1'-0"

Lot Two - Building Two
West Side Signage

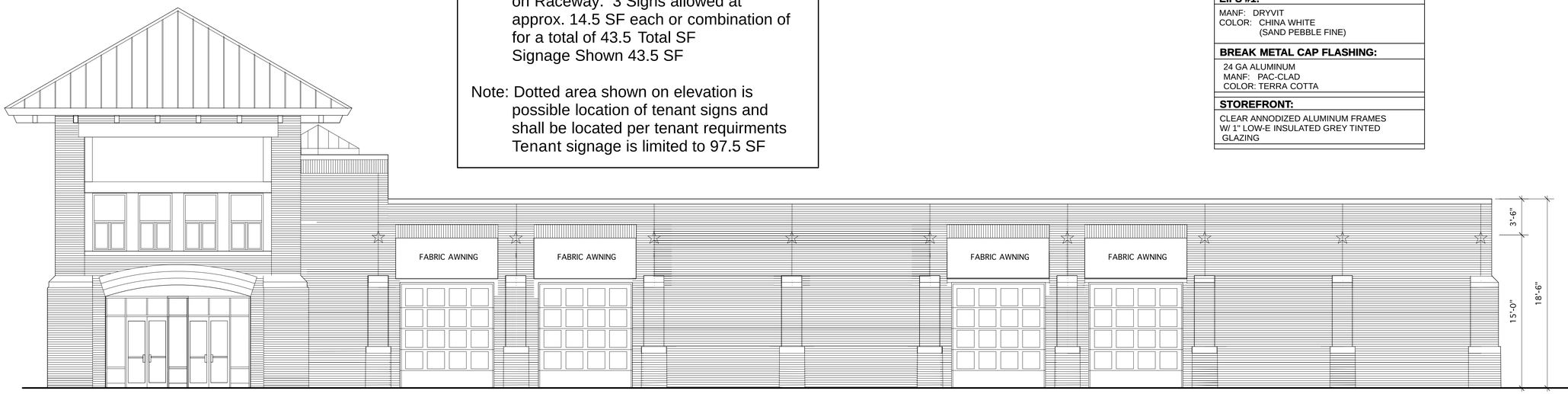
West Side Frontage = 195 LF
Sign Allowance = 97.5 SF

Signage Type:
Identity Sign/Tenant - Internally Illumninated Sign or Letters on Raceway 54 SF max
Tenant Signs - Internally Illumninated Letters on Raceway. 3 Signs allowed at approx. 14.5 SF each or combination of for a total of 43.5 Total SF
Signage Shown 43.5 SF

Note: Dotted area shown on elevation is possible location of tenant signs and shall be located per tenant requirments
Tenant signage is limited to 97.5 SF

EXTERIOR FINISHES:

BRICK # 1: FIELD BRICK
MANF: BORAL COLOR: FULL RANGE (WIRECUT MODULAR)
BRICK # 2: ACCENT BRICK
MANF: BORAL COLOR: RED (WIRECUT MODULAR)
WOOD SIDING
MANF: RECLAIMED WOOD COLOR: NATURAL FINISH
EIFS #1:
MANF: DRYVIT COLOR: CHINA WHITE (SAND PEBBLE FINE)
BREAK METAL CAP FLASHING:
24 GA ALUMINUM MANF: PAC-CLAD COLOR: TERRA COTTA
STOREFRONT:
CLEAR ANNODIZED ALUMINUM FRAMES W/ 1" LOW-E INSULATED GREY TINTED GLAZING



2 A-3.2 Parking Side Elevation
Scale: 3/16" = 1'-0"

SOUTH GREEN
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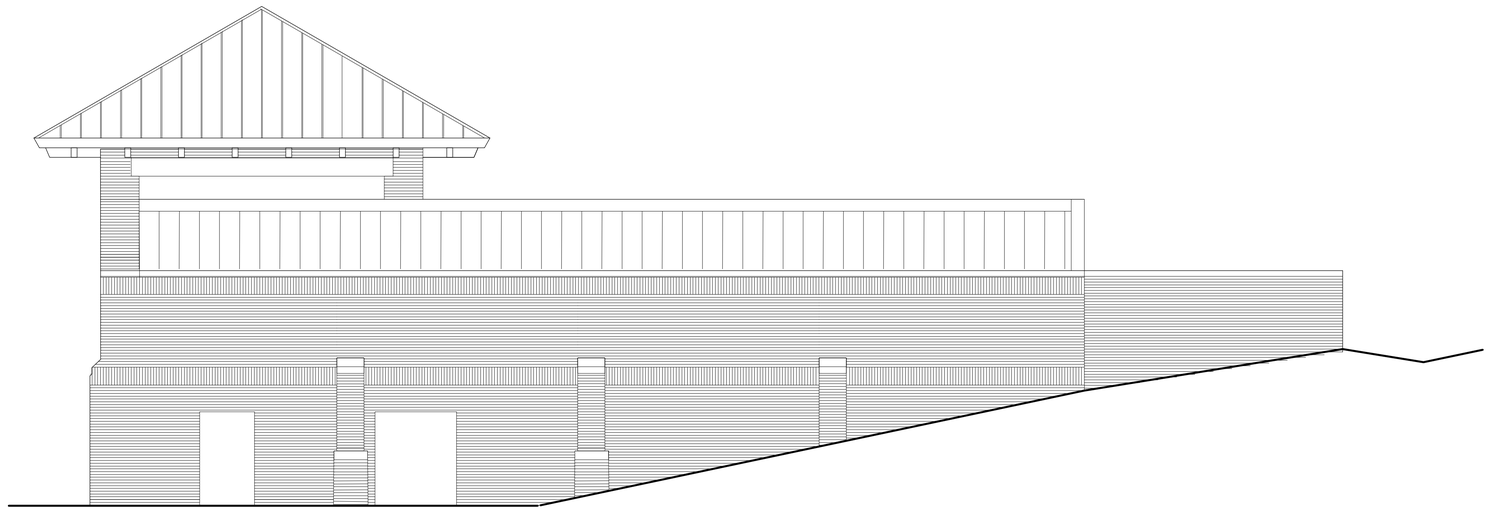
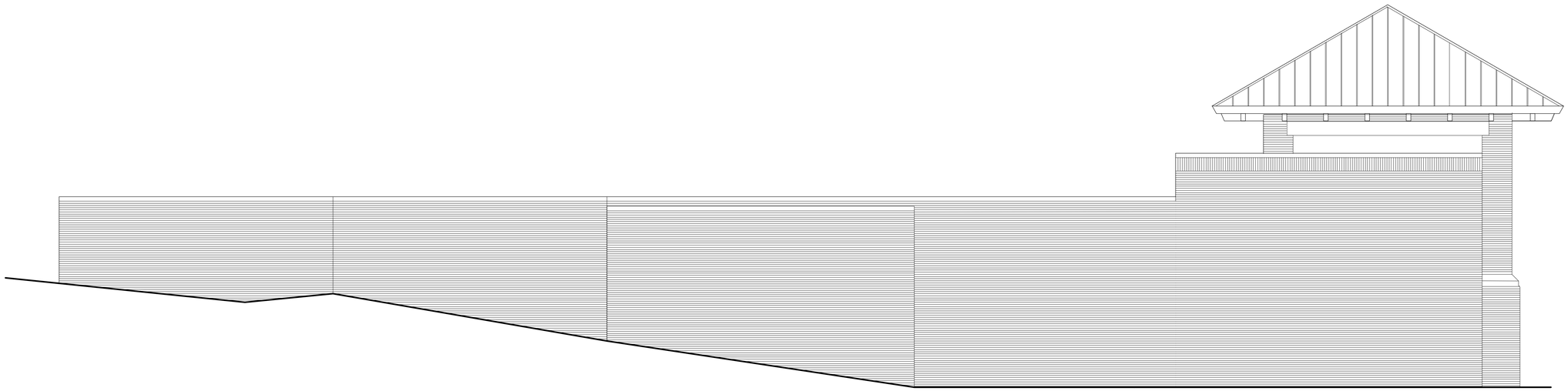
Project Number : 1330.1
Drawn By: TJL
Date: 18 Nov 2014
5 Jan 2015 SIGNAGE

BUILDING #2

A-3.2



1 A-4.2 Side Elevation
Scale: 3/16" = 1'-0"



2 A-4.2 Side Elevation
Scale: 3/16" = 1'-0"

BUILDING #2

A-4.2

SHOPPING SOUTH GREEN DINING

501 SOUTH GREENSBORO STREET
CARRBORO, NORTH CAROLINA

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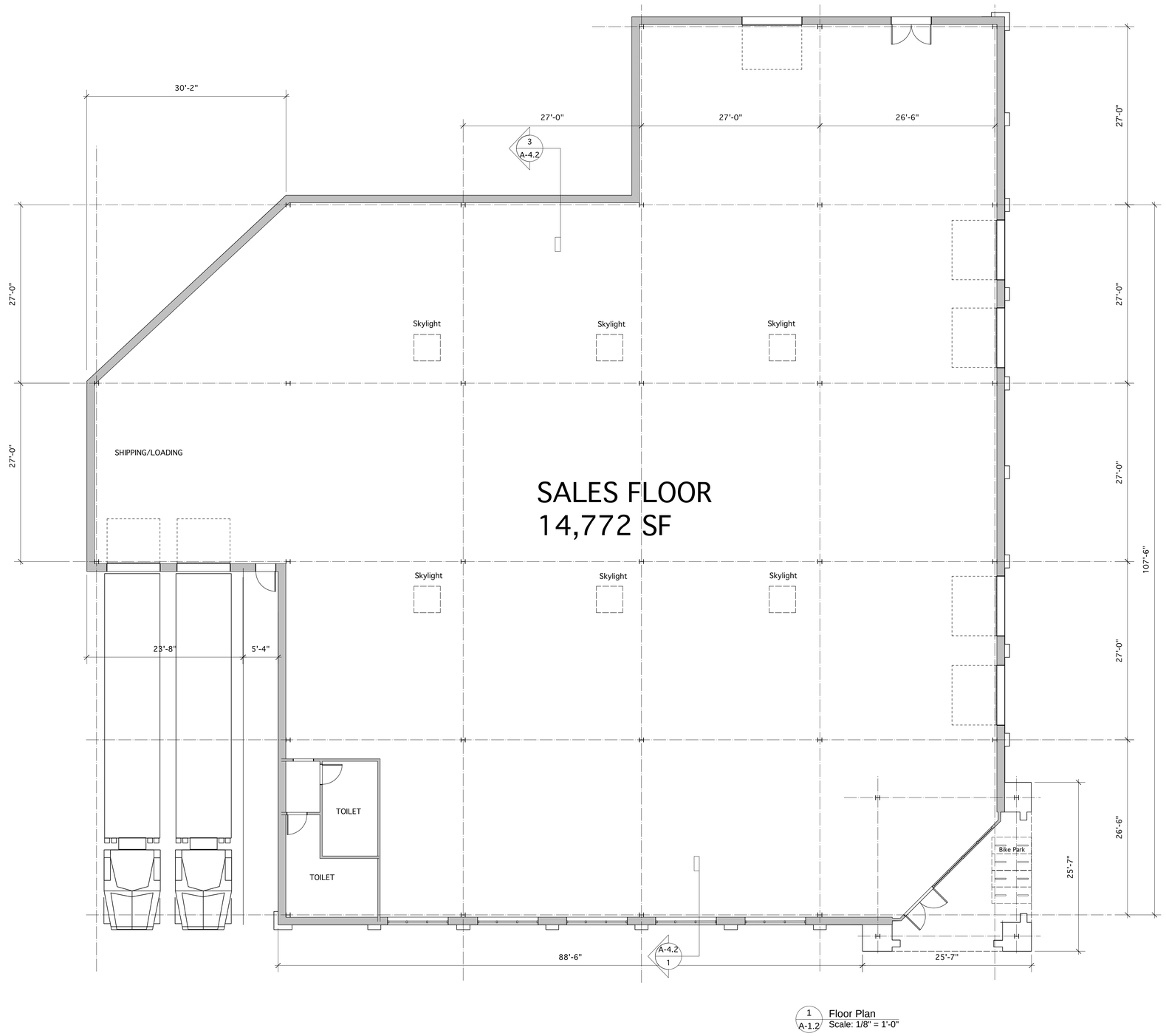

1 A-1.2 Floor Plan
Scale: 1/8" = 1'-0"

BUILDING #2a

A-1.2a

SHOPPING SOUTH GREEN DINING

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Carrboro, North Carolina

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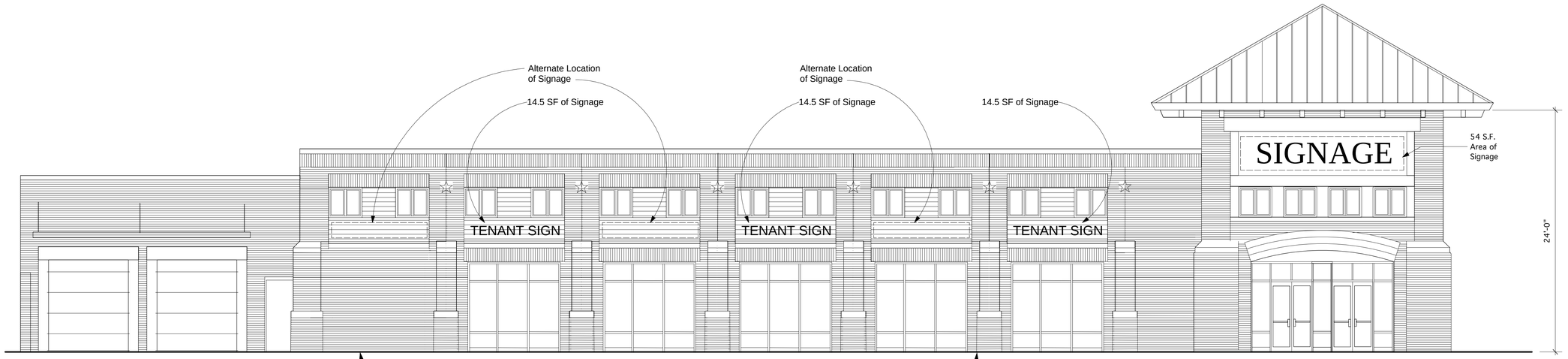
Date: 18 Nov 2014



1 A-3.2 Front Elevation
Scale: 3/16" = 1'-0"

Lot Two - Building Two
West Side Signage

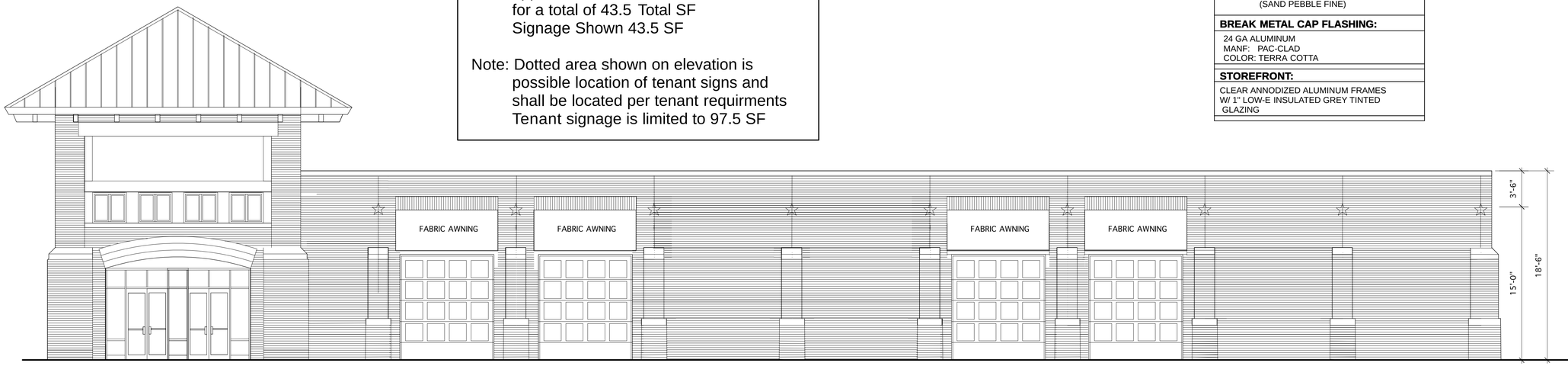
West Side Frontage = 195 LF
Sign Allowance = 97.5 SF

Signage Type:
Identity Sign/Tenant - Internally Illumninated Sign or Letters on Raceway 54 SF max
Tenant Signs - Internally Illumninated Letters on Raceway. 3 Signs allowed at approx. 14.5 SF each or combination of for a total of 43.5 Total SF
Signage Shown 43.5 SF

Note: Dotted area shown on elevation is possible location of tenant signs and shall be located per tenant requirments Tenant signage is limited to 97.5 SF

EXTERIOR FINISHES:

BRICK # 1: FIELD BRICK
MANF: BORAL COLOR: FULL RANGE (WIRECUT MODULAR)
BRICK # 2: ACCENT BRICK
MANF: BORAL COLOR: RED (WIRECUT MODULAR)
WOOD SIDING
MANF: RECLAIMED WOOD COLOR: NATURAL FINISH
EIFS #1:
MANF: DRYVIT COLOR: CHINA WHITE (SAND PEBBLE FINE)
BREAK METAL CAP FLASHING:
24 GA ALUMINUM MANF: PAC-CLAD COLOR: TERRA COTTA
STOREFRONT:
CLEAR ANNODIZED ALUMINUM FRAMES W/ 1" LOW-E INSULATED GREY TINTED GLAZING



2 A-3.2 Parking Side Elevation
Scale: 3/16" = 1'-0"

BUILDING #2a A-3.2a

SOUTH GREEN SHOPPING DINING
501 SOUTH GREENSBORO STREET
CARRBORO, NORTH CAROLINA

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Date: 18 Nov 2014
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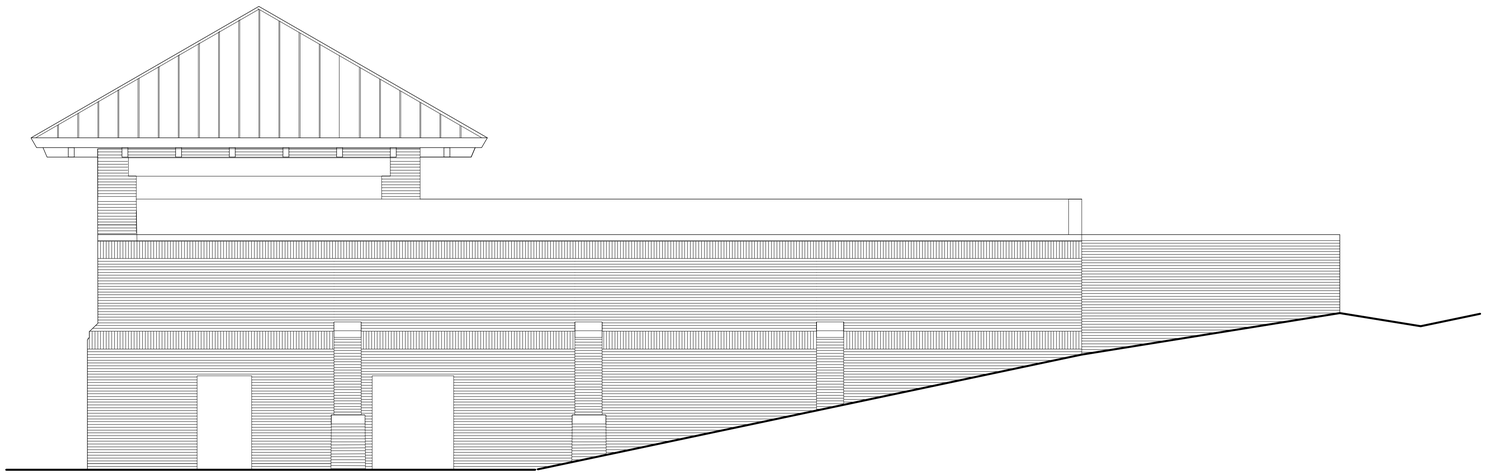
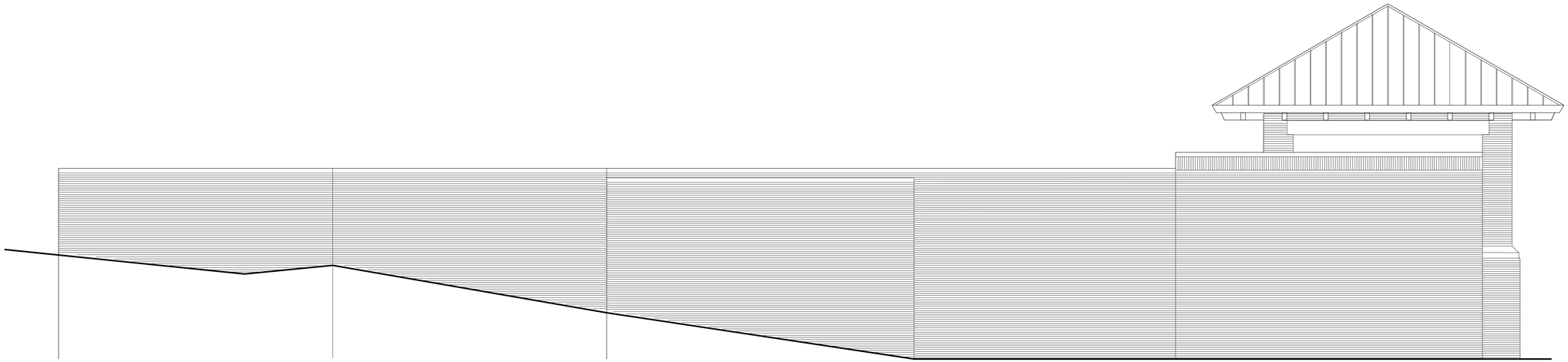


1 A-4.2 Side Elevation
Scale: 3/16" = 1'-0"



2 A-4.2 Side Elevation
Scale: 3/16" = 1'-0"

BUILDING #2a

A-4.2a

SOUTH GREEN
SHOPPING DINING

501 South Greensboro Street
CARRBORO, NORTH CAROLINA

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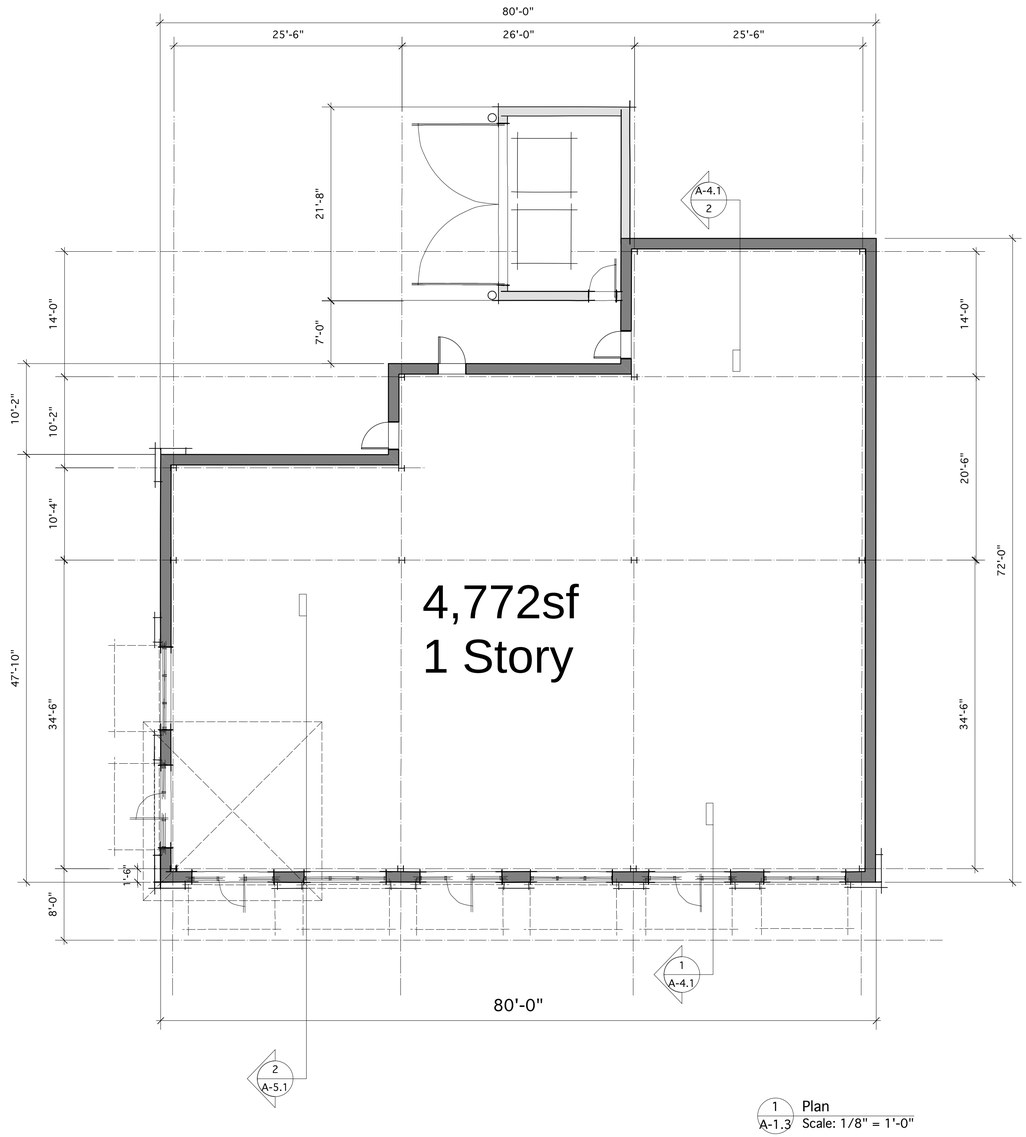
Project Number : 1330.1
Drawn By: TJL
Date: 18 Nov 2014
7 Jan 2015



1 / A-1.3 Plan
Scale: 1/8" = 1'-0"

SOUTH GREEN
SHOPPING
DINING

501 South Greensboro Street
CARRBORO, NORTH CAROLINA

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Project Number : 1330.3
Drawn By: TJL
Date: 18 Nov 2014

BUILDING #3

A-1.3

EXTERIOR FINISHES:

BRICK # 1: FIELD BRICK
MANF: BORAL COLOR: FULL RANGE (WIRECUT MODULAR)
BRICK # 2: ACCENT BRICK
MANF: BORAL COLOR: RED (WIRECUT MODULAR)
EIFS #1:
MANF: DRYVIT COLOR: CHINA WHITE (SAND PEBBLE FINE)
BREAK METAL CAP FLASHING:
24 GA ALUMINUM MANF: PAC-CLAD COLOR: TERRA COTTA
STOREFRONT:
CLEAR ANNODIZED ALUMINUM FRAMES W/ 1" LOW-E INSULATED GREY TINTED GLAZING

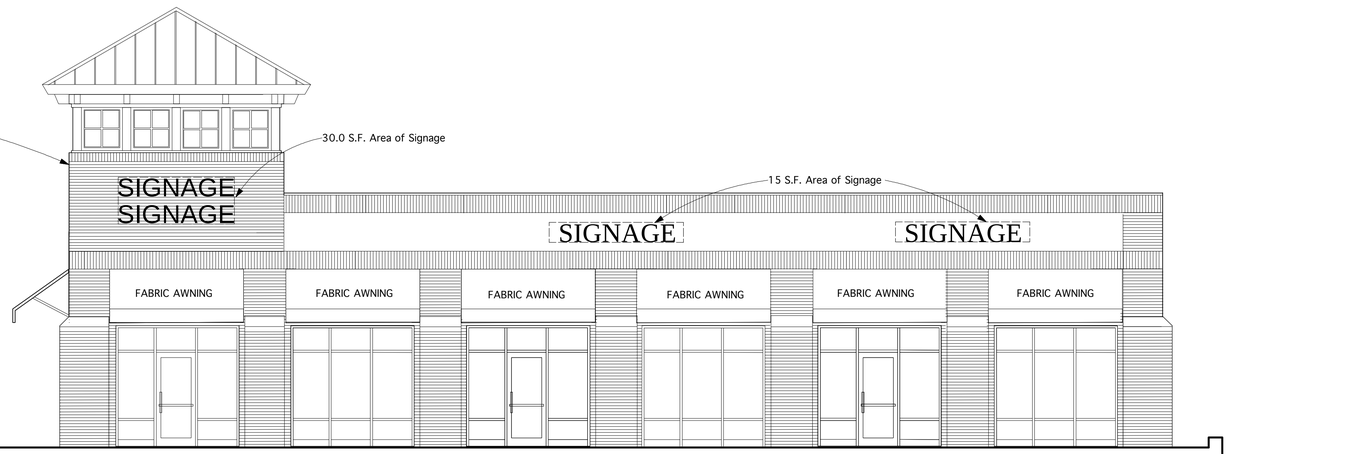
Lot Three - Building Three West Side Signage

North Side Frontage = 306 LF
Sign Allowance = 180 SF

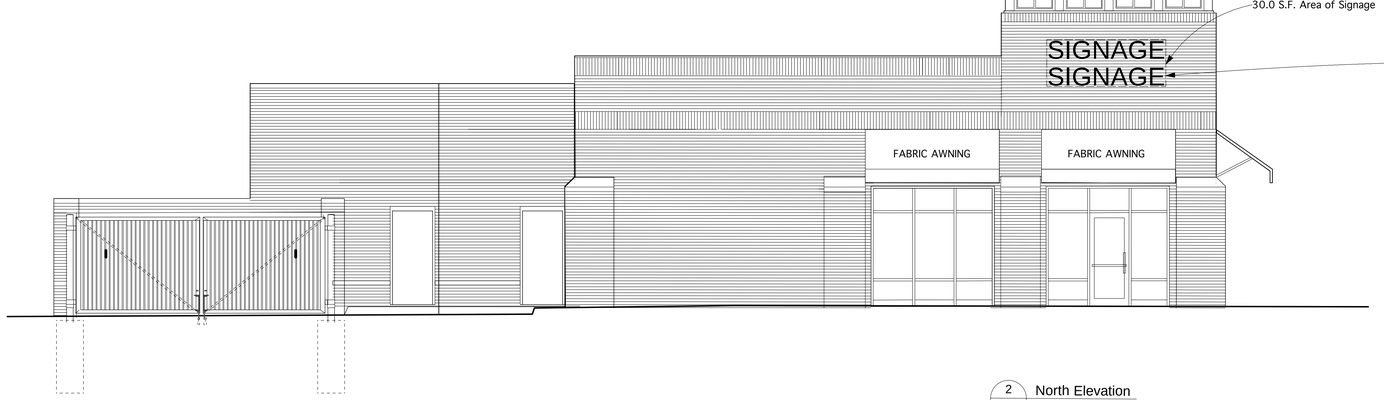
Building Three West Side Total	**60.0 SF**
Building Three North Side Total	30.0 SF
Building Four East Side Total	30.0 SF
Building Four North Side Total	60.0 SF
Total North Side SF Used	180.0 SF

Signage Type:
Identity Sign/Tenant - Internally Illumninated Sign or Letters on Raceway 30.0 SF max
Tenant Signs - Internally Illumninated Letters on Raceway. 2 Signs allowed at approx. 15 SF each or combination of for a total of 30 Total SF
Signage Shown 30 SF

Note: Dotted area shown on elevation is possible location of tenant signs and shall be located per tenant requirments Tenant signage is limited to 60.0 SF



1 A-3.3 Front Elevation
Scale: 3/16" = 1'-0"



2 A-3.3 North Elevation
Scale: 3/16" = 1'-0"

Lot Three - Building Three North Side Signage

North Side Frontage = 306 LF
Sign Allowance = 180 SF

Building Three West Side Total	60.0 SF
Building Three North Side Total	**30.0 SF**
Building Four East Side Total	30.0 SF
Building Four North Side Total	60.0 SF
Total North Side SF Used	180.0 SF

Signage Type:
Identity Sign/Tenant - Internally Illumninated Sign or Letters on Raceway 30.0 SF ma

Note: Dotted area shown on elevation is possible location of tenant signs and shall be located per tenant requirments Tenant signage is limited to 30.0 SF

SOUTH GREEN
SHOPPING DINING
501 SOUTH GREENSBORO STREET
CARRBORO, NORTH CAROLINA

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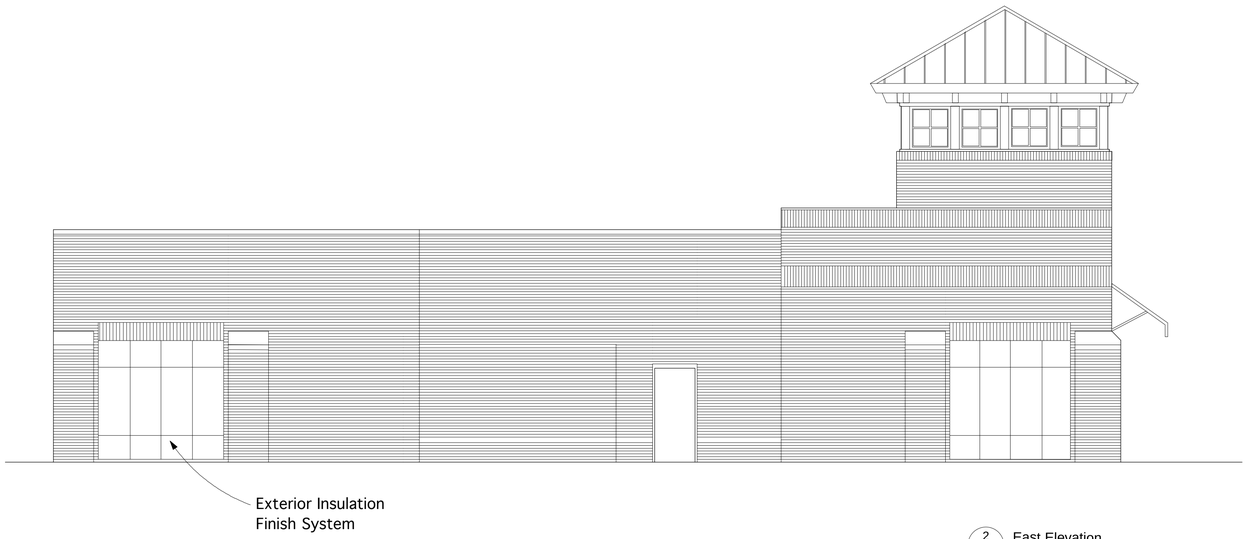
Project Number : 1330.3
Drawn By: TJL
Date: 18 Nov 2014
7 Jan 2015 SIGNAGE

BUILDING #3 A-3.3

1 A-4.3 South Elevation
Scale: 3/16" = 1'-0"



2 A-4.3 East Elevation
Scale: 3/16" = 1'-0"

BUILDING #3

SOUTH GREEN
SHOPPING DINING

501 South Greensboro Street
CARRBORO, NORTH CAROLINA

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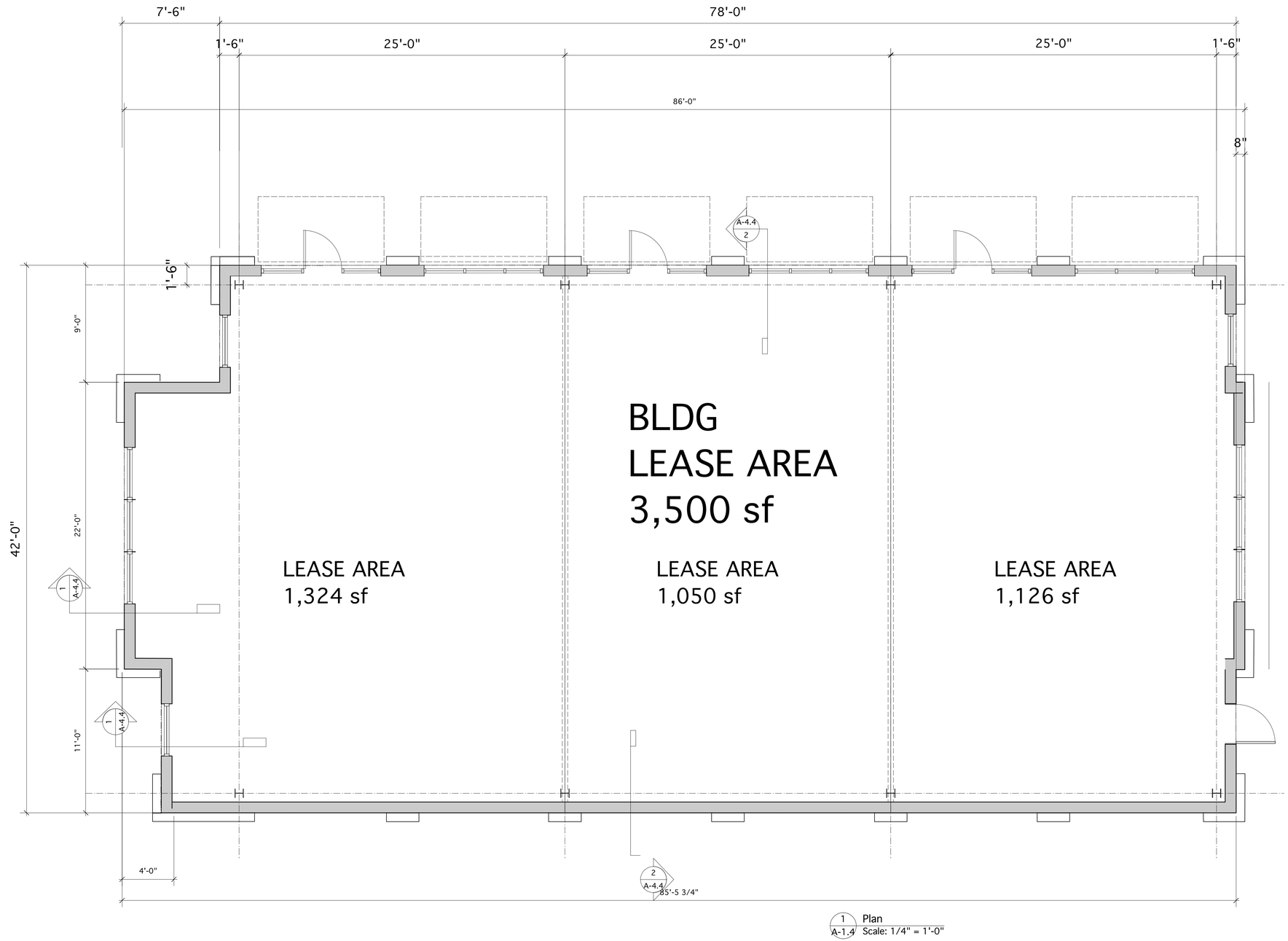
Project Number : 1330.3
Drawn By: TJL
Date: 18 Nov 2014

A-4.3



1 A-1.4 Plan
Scale: 1/4" = 1'-0"

BUILDING #4

SHOPPING SOUTH GREEN DINING

501 South Greensboro Street
CARRBORO, NORTH CAROLINA

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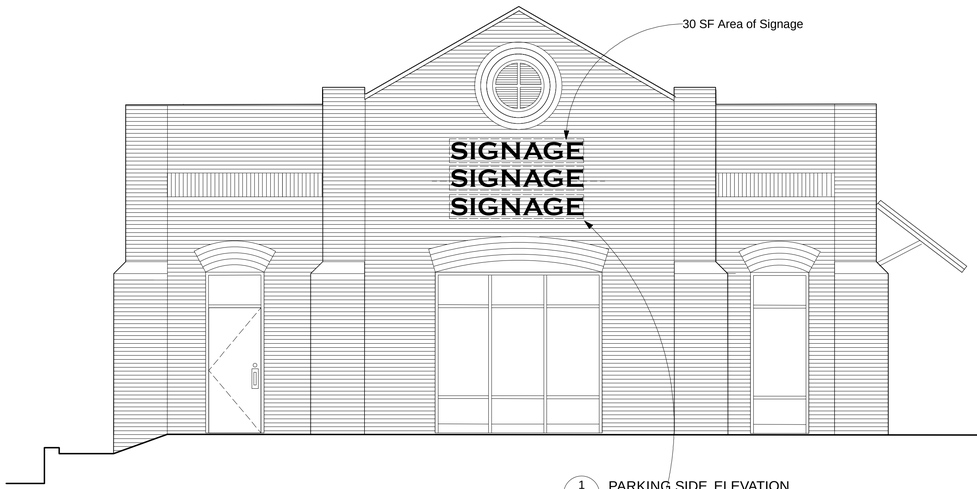
Project Number : 1330.4
Drawn By: TJL
Date: 18 Nov 2014

A-1.4



1 A-3.4 PARKING SIDE ELEVATION
Scale: 1/4" = 1'-0"

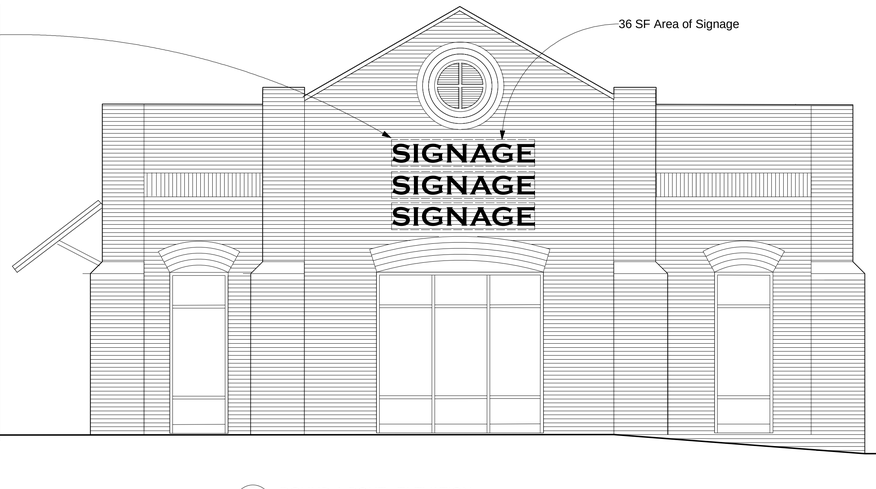
Lot Three - Building Four
West Side Signage

West Side Frontage = 133 LF
Sign Allowance = 66.5 SF

Free Standing Sign Allowance Deduction
30.5 SF (This will allow a Freestanding Sign text area of approx. 7'6" x 4' or 30.5 SF)

Signage Type:
Tenant Signs - Internally Illumninated Letters on Raceway. 3 Signs allowed at approx. 12 SF each or combination of for a total of 36 Total SF
Signage Shown 36 SF

Note: Dotted area shown on elevation is possible location of tenant signs and shall be located per tenant requirments Tenant signage is limited to 36 SF



2 A-3.4 ROUND A BOUT ELEVATION
Scale: 1/4" = 1'-0"

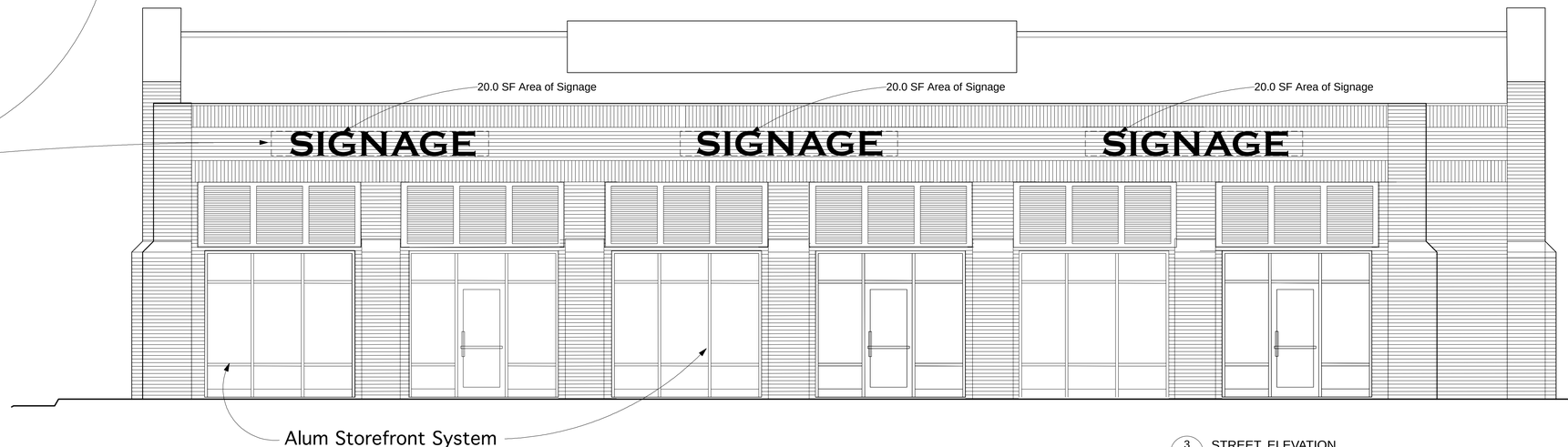
Lot Three - Building Four
South & North Side Signage

North Side Frontage = 306 LF
Sign Allowance = 180 SF

Building Three West Side Total	60.0 SF
Building Three North Side Total	30.0 SF
Building Four East Side Total	**30.0 SF**
Building Four North Side Total	**60.0 SF**
Total North Side SF Used	180.0 SF

Signage Type:
Identity Sign/Tenant - Internally Illuminated Sign or Letters on Raceway 30.0 SF max
Tenant Signs - Internally Illuminated Letters on Raceway for a total of 60 Total SF
Signage Shown 90 SF

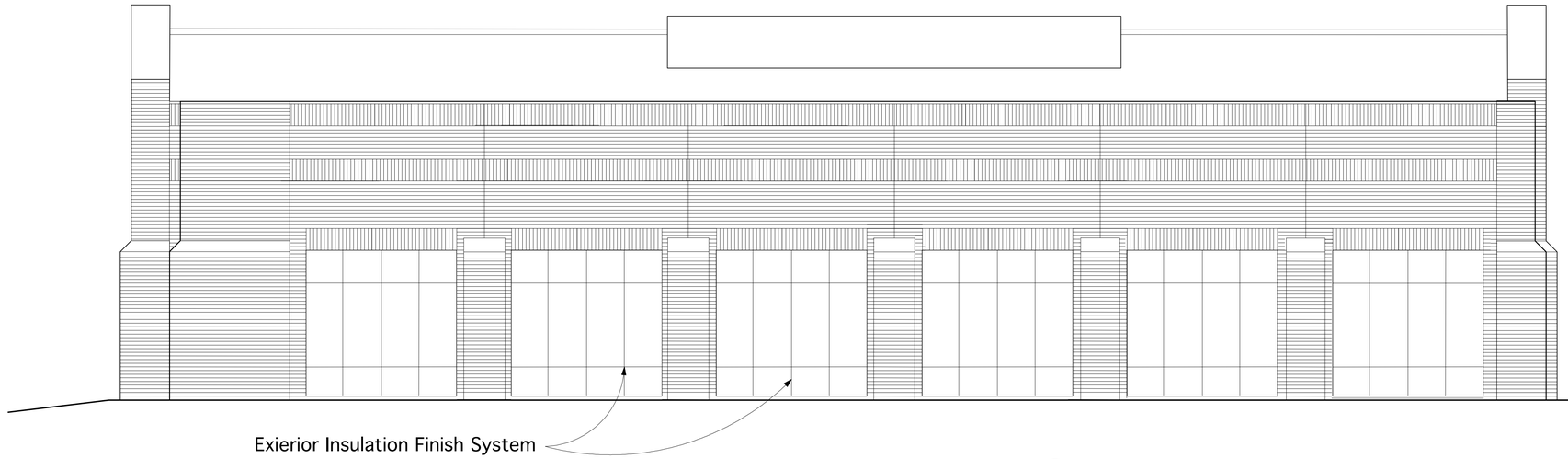
Note: Dotted area shown on elevation is possible location of tenant signs and shall be located per tenant requirments Tenant signage is limited to 60.0 SF



3 A-3.4 STREET ELEVATION
Scale: 1/4" = 1'-0"

EXTERIOR FINISHES:

BRICK # 1: FIELD BRICK
MANF: BORAL COLOR: FULL RANGE (WIRECUT MODULAR)
BRICK # 2: ACCENT BRICK
MANF: BORAL COLOR: RED (WIRECUT MODULAR)
EIFS #1:
MANF: DRYVIT COLOR: CHINA WHITE (SAND PEBBLE FINE)
BREAK METAL CAP FLASHING:
24 GA ALUMINUM MANF: PAC-CLAD COLOR: TERRA COTTA
STOREFRONT:
CLEAR ANNODIZED ALUMINUM FRAMES W/ 1" LOW-E INSULATED GREY TINTED GLAZING



4 A-3.4 REAR ELEVATION
Scale: 1/4" = 1'-0"

BUILDING #4

SOUTH GREEN
SHOPPING DINING
501 SOUTH GREENSBORO STREET
CARRBORO, NORTH CAROLINA

LINEBERRY
Architectural Group PA
ARCHITECTURE - PLANNING - INTERIOR ARCHITECTURE
2321 Blue Ridge Road, Suite 201, Raleigh, North Carolina 27607
919 786 0229 Fax 919 786 0199 lineberrygroup.com

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Project Number : 1330.4
Drawn By: TJL
Date: 18 Nov 2014
7 Jan 2015 SIGNAGE

A-3.4

Lot Three - Building Five
West Side Signage

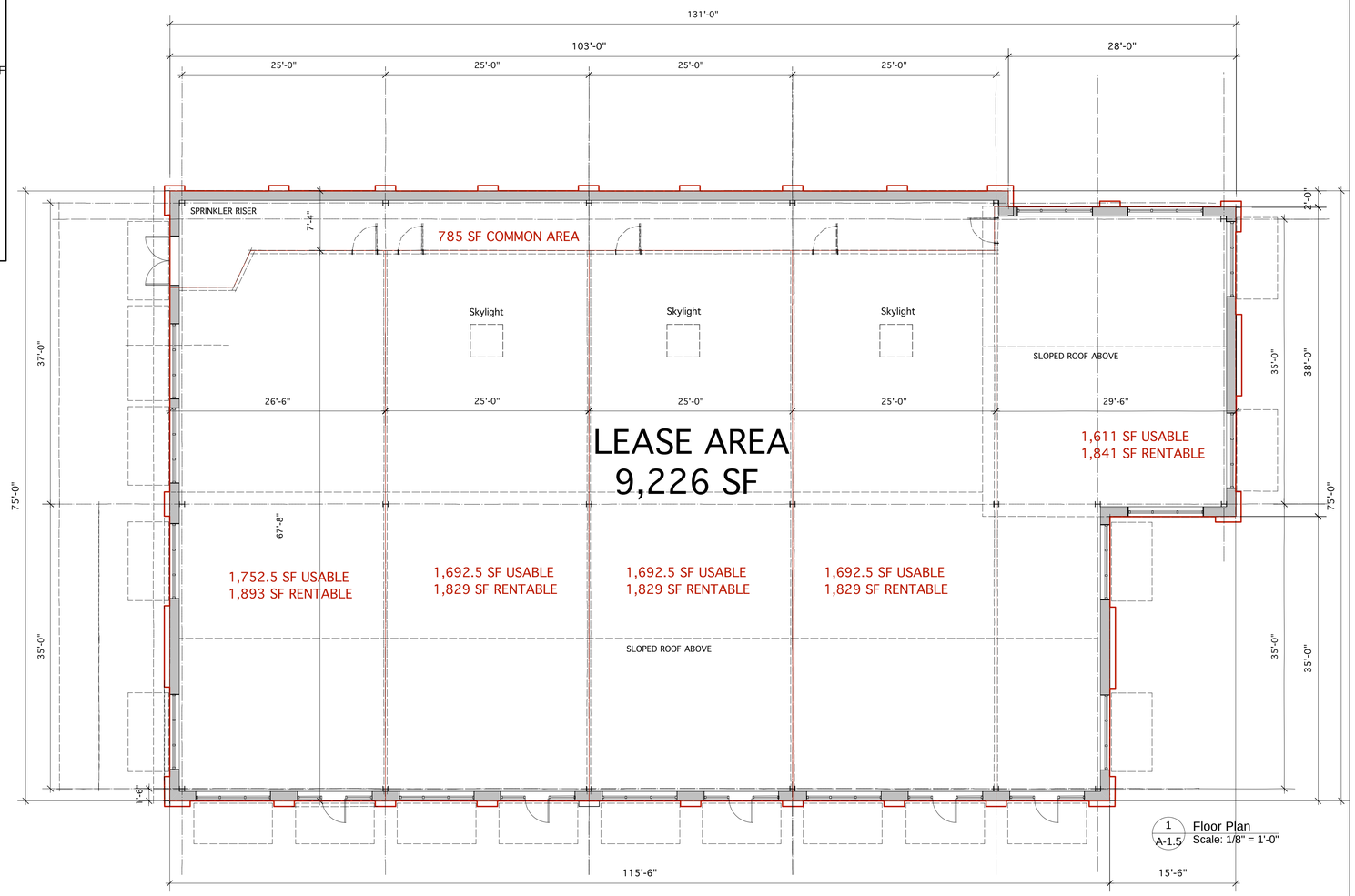
West Side Frontage = 133 LF
Sign Allowance = 66.5 SF

Freestanding Sign Allowance Deduction 30.5 SF
(This will allow a Freestanding Sign text area of approx. 7'6" x 4' or 30.5 SF)

Signage Type:
Tenant Signs - Internally Illumninated Letters on Raceway. 6 Signs allowed at approx. 6 SF each or combination of for a total of 36 Total SF
Signage Shown 36 SF

Note: Dotted area shown on elevation is possible location of tenant signs and shall be located per tenant requirments
Tenant signage is limited to 36 SF

4 A-1.5 ROUND A BOUT ELEVATION
Scale: 1/8" = 1'-0"



1 A-1.5 Floor Plan
Scale: 1/8" = 1'-0"

3 A-1.5 PARKING SIDE ELEVATION
Scale: 1/8" = 1'-0"

Lot Three - Building Five
East & North Side Signage

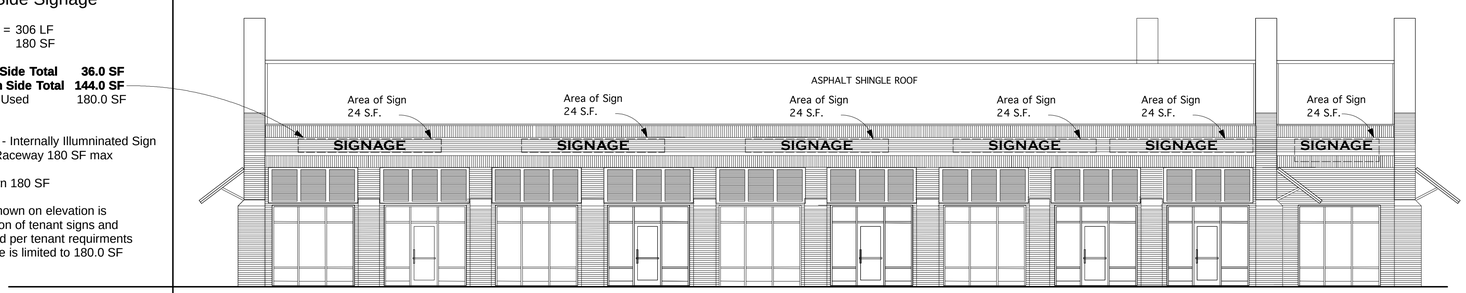
North Side Frontage = 306 LF
Sign Allowance = 180 SF

Building Five East Side Total 36.0 SF
Building Five North Side Total 144.0 SF
Total North Side SF Used 180.0 SF

Signage Type:
Identity Sign/Tenant - Internally Illuminated Sign or Letters on Raceway 180 SF max

Signage Shown 180 SF

Note: Dotted area shown on elevation is possible location of tenant signs and shall be located per tenant requirments
Tenant signage is limited to 180.0 SF



2 A-1.5 STREET ELEVATION
Scale: 1/8" = 1'-0"

BUILDING #5

A-1.5

SOUTH GREEN
SHOPPING DINING

501 SOUTH GREENSBORO STREET
CARRBORO, NORTH CAROLINA

LINEBERRY Architectural Group PA
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2321 Blue Ridge Road, Suite 201, Raleigh, North Carolina 27607
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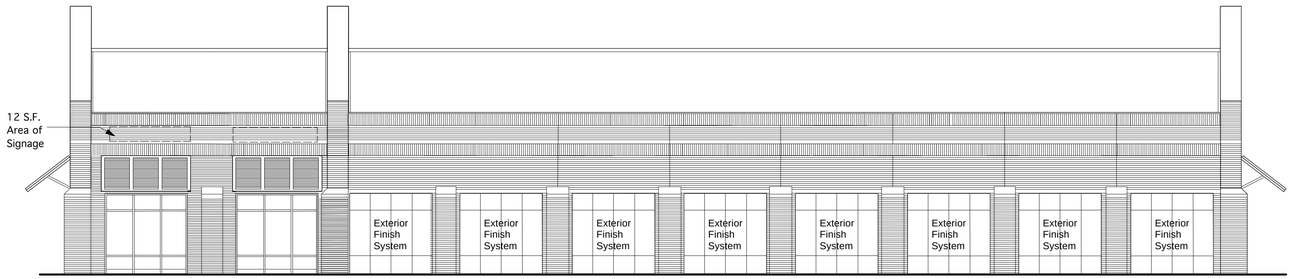
Project Number : 1330.5
Drawn By: TJL
Date: 18 Nov 2014
7 Jan 2015



1
A-2.5
REAR ELEVATION
Scale: 1/8" = 1'-0"

SHOPPING
SOUTH GREEN
DINING

501 South Greensboro Street
CARRBORO, NORTH CAROLINA

LINEBERRY
Architectural Group PA
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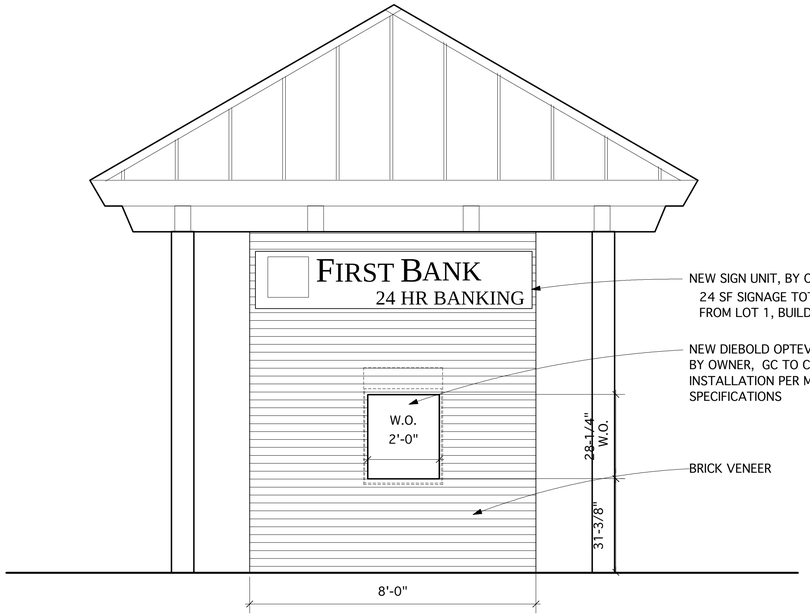
Project Number : 1330.1
Drawn By: TJL
Date: 18 Nov 2014
7 Jan 2015

BUILDING #5

A-2.5

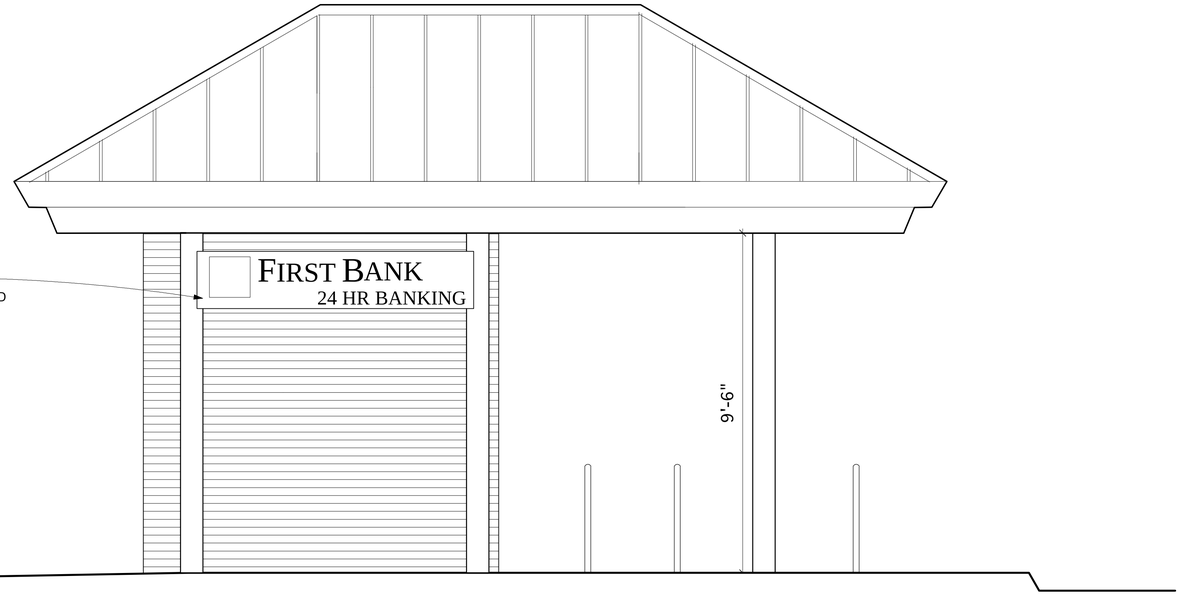


NEW SIGN UNIT, BY OWNER
24 SF SIGNAGE TOTAL SHALL BE SUBTRACTED FROM LOT 1, BUILDING 1 EAST SIDE

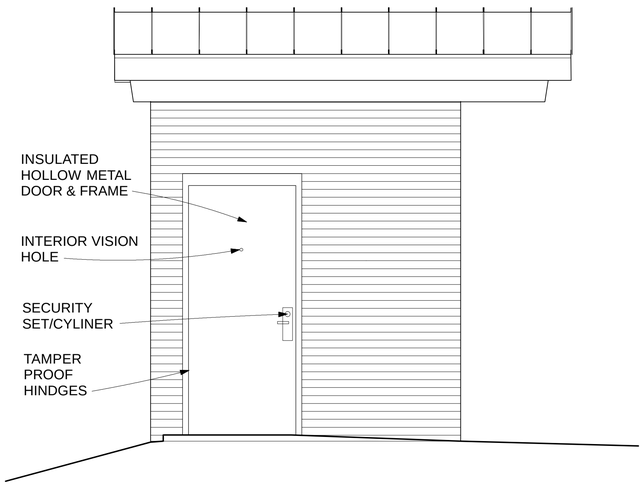
NEW DIEBOLD OPTEVA 760 ATM BY OWNER, GC TO COORDINATE INSTALLATION PER MANUFACTURER'S SPECIFICATIONS

BRICK VENEER

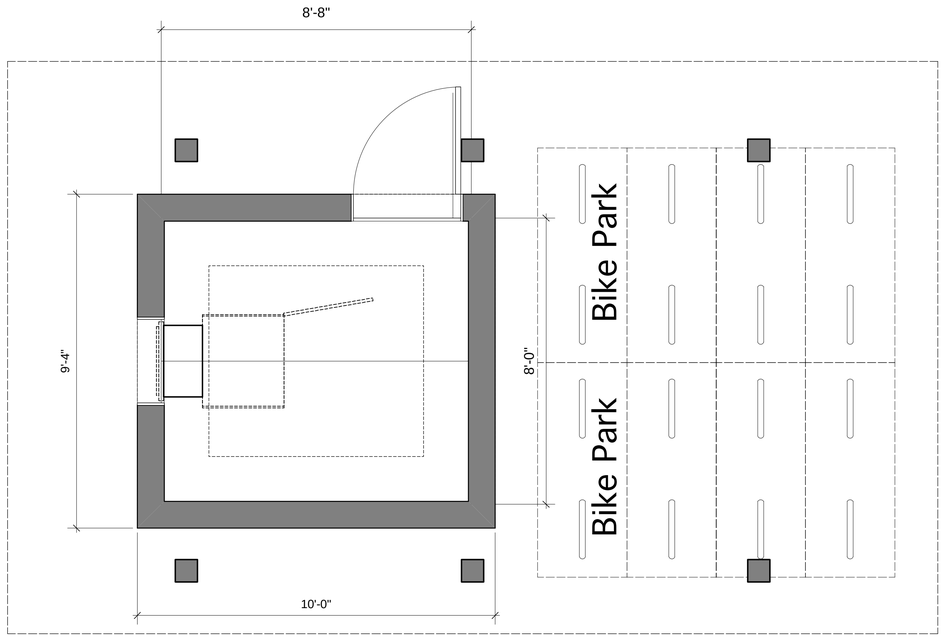
2 A-1.B FRONT ELEVATION @ ATM
Scale: 1/2" = 1'-0"



4 A-1.B SIDE ELEVATION @ ATM
Scale: 1/2" = 1'-0"



3 ATM-1 SIDE ELEVATION @ ATM
Scale: 1/2" = 1'-0"



1 A-1B ENLARGED FLOOR PLAN @ ATM
Scale: 1/2" = 1'-0"

BIKE & ATM COVER

A-1.B

SOUTH GREEN
SHOPPING DINING

501 SOUTH GREENSBORO STREET
CARRBORO, NORTH CAROLINA

LINEBERRY Architectural Group PA
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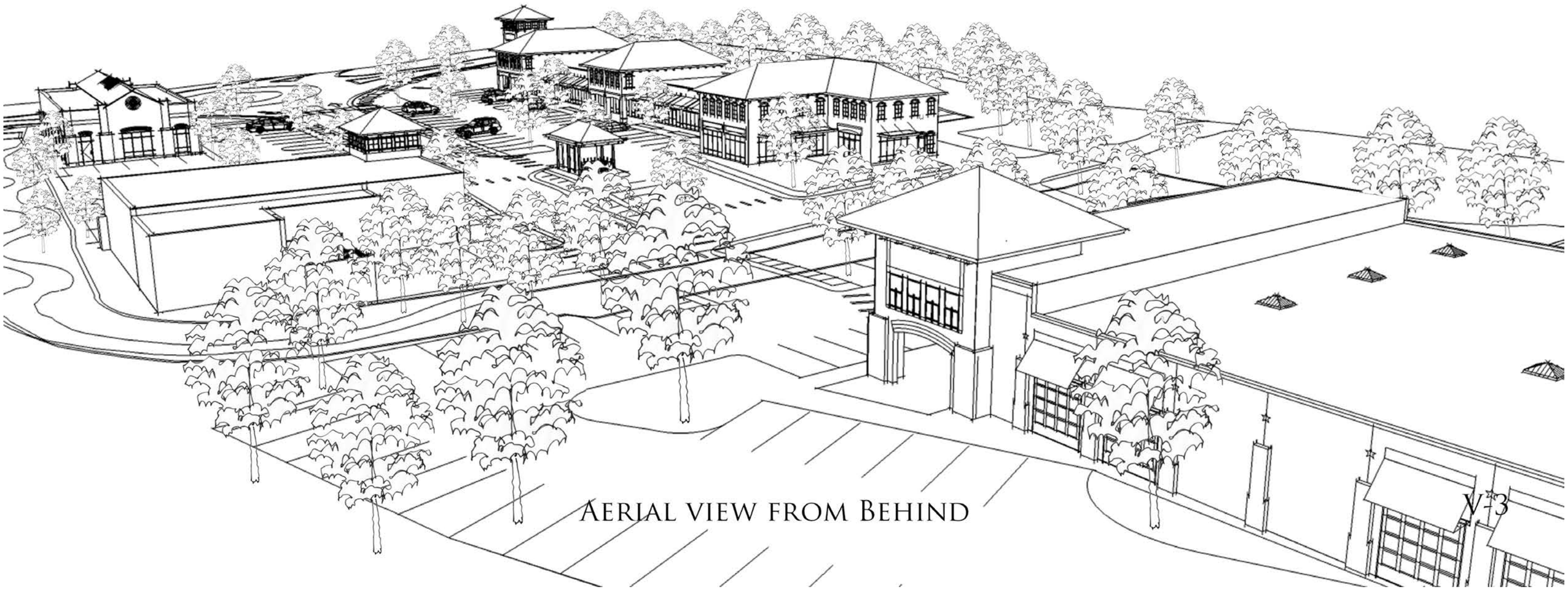
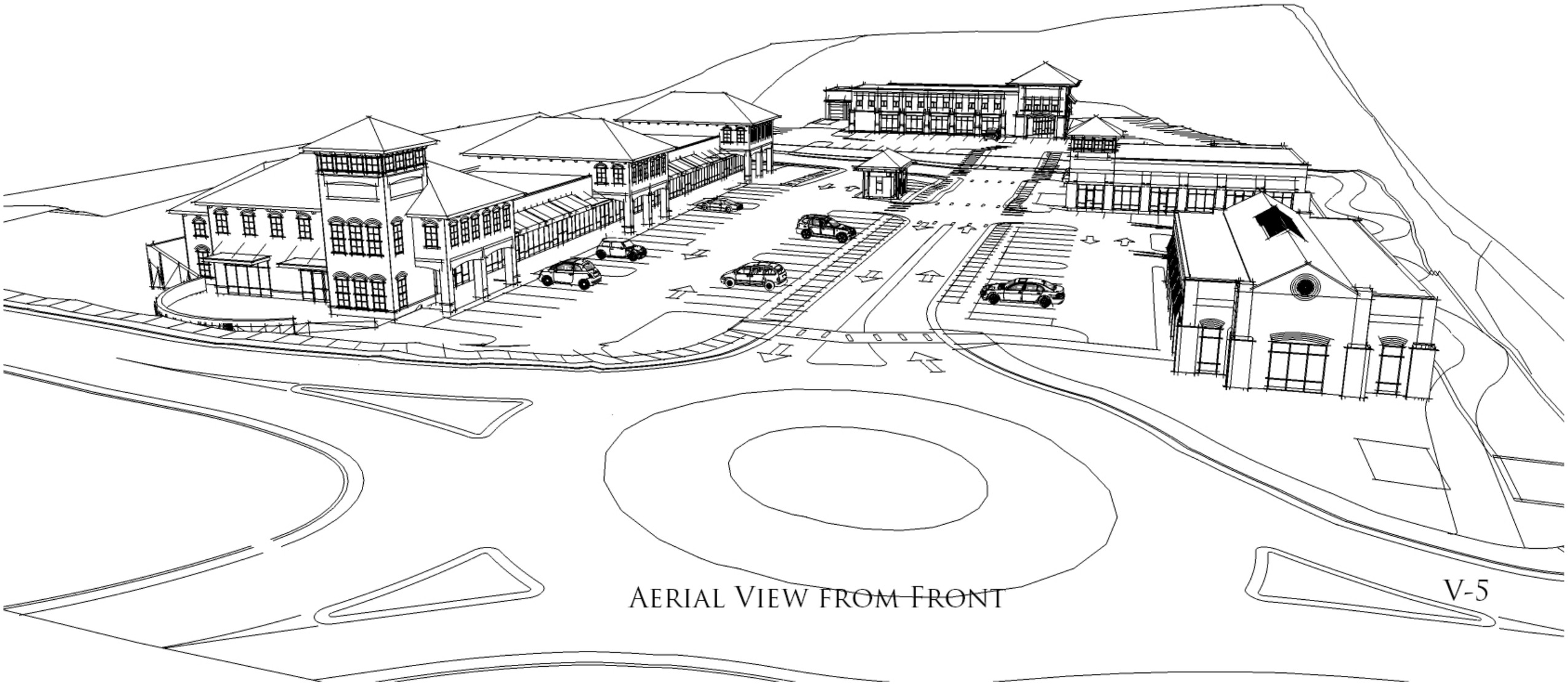
Project Number : 1330.1
Drawn By: TJL
Date: 18 Nov 2014
7 Jan 2015 SIGNAGE

View from Building 1

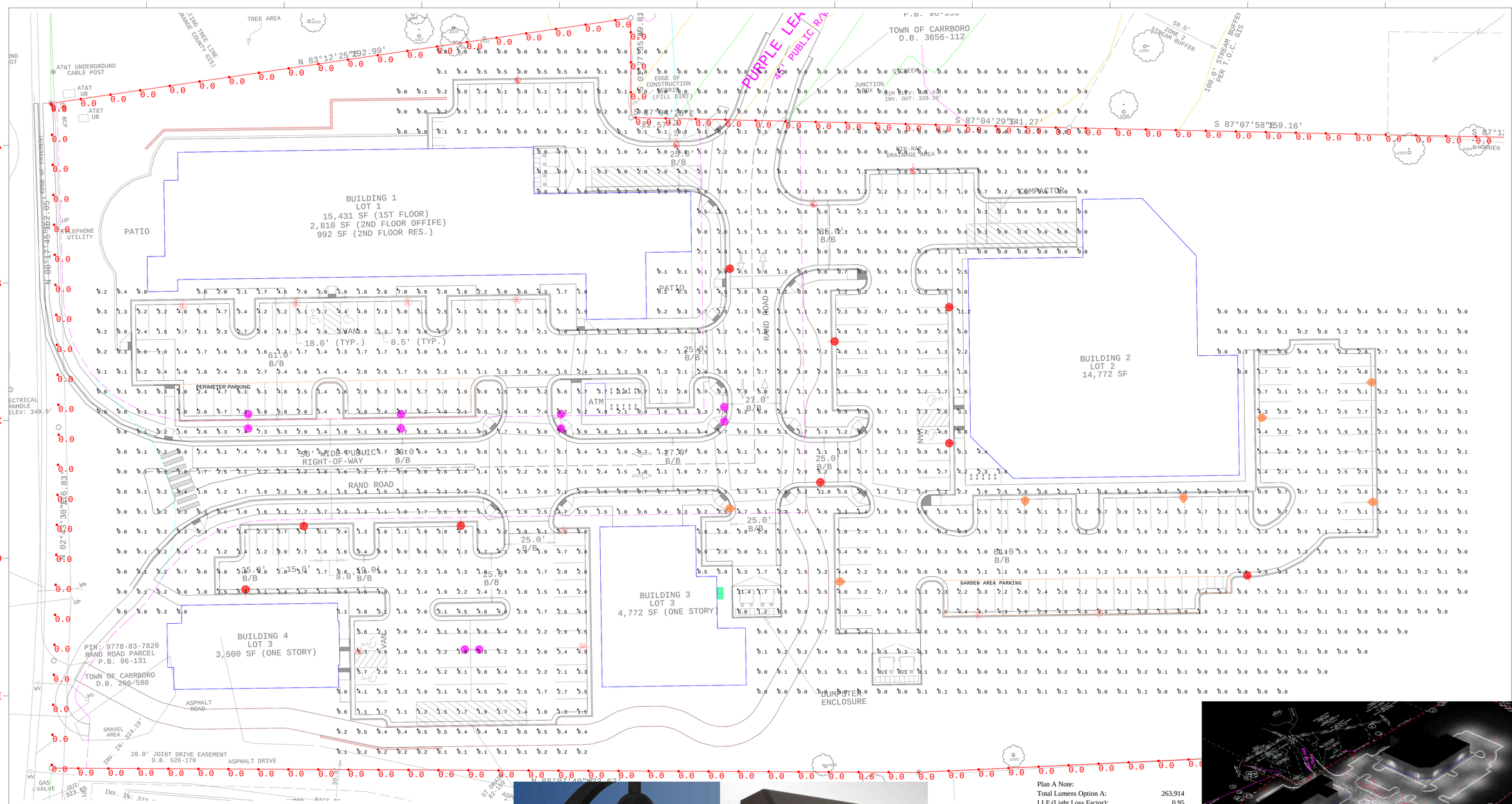


Aerial view from Behind

View from Neighborhood Above



Aerial View from Front



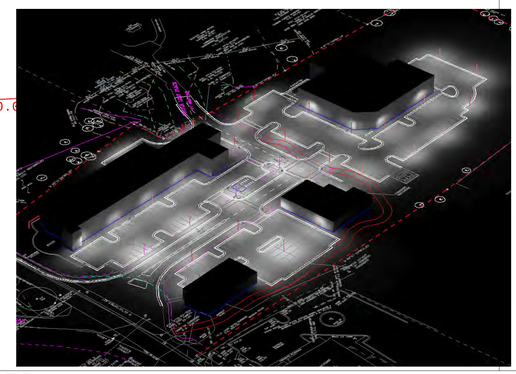
NOTE:
1. LUMANS SHOWN NOW REFLECT THE CUTOFF LOUVER SYSTEM THAT HELPS PREVENT OFFSIGHT LIGHT SPILLAGE.
2. PHOTOMETRIC PLAN DOES NOT ACCOUNT FOR ELEVATION DIFFERENCE.
3. GARDEN AREA HAS BEEN REMOVED. PLEASE IGNORE THE GARDNE AREA BREAKDOWN

Calculation Summary							
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
CalcPts	Illuminance	Fc	1.80	11.4	0.0	N.A.	N.A.
PL	Illuminance	Fc	0.00	0.0	0.0	N.A.	N.A.
GARDEN AREA PKG	Illuminance	Fc	2.91	5.2	0.9	3.23	5.78
PERIMETER PARK	Illuminance	Fc	4.44	9.2	1.4	3.17	6.57

Plan A Note:

Total Lumens Option A:	263,914
LLF (Light Loss Factor):	0.95
	250,718.8
Mean Lumens*:	0.95
	238,182.8
Area Covered (Acres):	5.98
Lumens per acre:	39,829.90

* Mean lumens (as opposed to initial lumens) are not yet available for these (or most) LEDs. Conventional luminaires would use .70 to .75 as a means lumens factor. For these much more stable and efficient LEDs we have used a very conservative mean lumens factor of .95.



Luminaire Schedule								
Symbol	Qty	Label	Arrangement	Total Lamp Lumens	LLF	Description	BUG Rating	Lum. Watts
	9	1-T2	SINGLE	N.A.	0.950	Visionaire Oden III ODN-3-84LC-T2-5-55K-SINGLE @ 15' MTG. HT.	B2-U0-G2	122
	9	1-T3	SINGLE	N.A.	0.950	Visionaire Oden III ODN-3-84LC-T3-5-55K-SINGLE @ 15' MTG. HT.	B2-U0-G2	122
	4	1-T3-CLS	SINGLE	N.A.	0.950	Visionaire Oden III ODN-3-84LC-T3-5-55K-SINGLE LS @ 15' MTG. HT.	B0-U0-G1	215
	7	1-T4	SINGLE	N.A.	0.950	Visionaire Oden III ODN-3-84LC-T4-5-55K-SINGLE @ 15' MTG. HT.	B2-U0-G2	122
	5	2	BACK-BACK	N.A.	0.950	Visionaire Oden III ODN-3-84LC-T5-5-55K-TWIN @ 15' MTG. HT.	B3-U0-G2	122
	1	WM-10	SINGLE	N.A.	0.950	Visionaire Malibu MLB-2-T3-48LC-5-55K-WALL @ 10' MTG. HT.	B2-U0-G1	76

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BASED ON THE INFORMATION PROVIDED, ALL DIMENSIONS AND LUMINAIRE LOCATIONS SHOWN REPRESENT RECOMMENDED POSITIONS. THE PROJECT ENGINEER AND/OR ARCHITECT MUST DETERMINE APPLICABILITY OF THE LAYOUT TO EXISTING OR FUTURE FIELD CONDITIONS. THE LIGHTING DATA REPRESENTS ILLUMINATION LEVELS TAKEN FROM A LABORATORY SETTING UNDER CONTROLLED CONDITIONS IN ACCORDANCE WITH THE ILLUMINATING ENGINEERING SOCIETY OF NORTH AMERICA (IESNA) APPROVED METHODS. ACTUAL PERFORMANCE MAY VARY DUE TO VARIATIONS IN ELECTRICAL VOLTAGE, INSTALLATION, TOLERANCE LEVELS, BUILDINGS, OTHER LIGHTING, AND OTHER VARIABLES THAT WERE NOT CONSIDERED WHEN THIS PHOTOMETRIC REPORT WAS CREATED. IT IS THE RESPONSIBILITY OF THE OWNER OR PROJECT ENGINEER TO ENSURE COMPLIANCE OF ALL STANDARDS IN EFFECT. THIS PHOTOMETRIC LAYOUT IS THE PROPERTY OF VISIONAIRE LIGHTING AND IT CANNOT BE USED FOR INSTALLATION OF PRODUCTS OTHER THAN SPECIFIED.
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E1001 LIGHTING - OPTION A

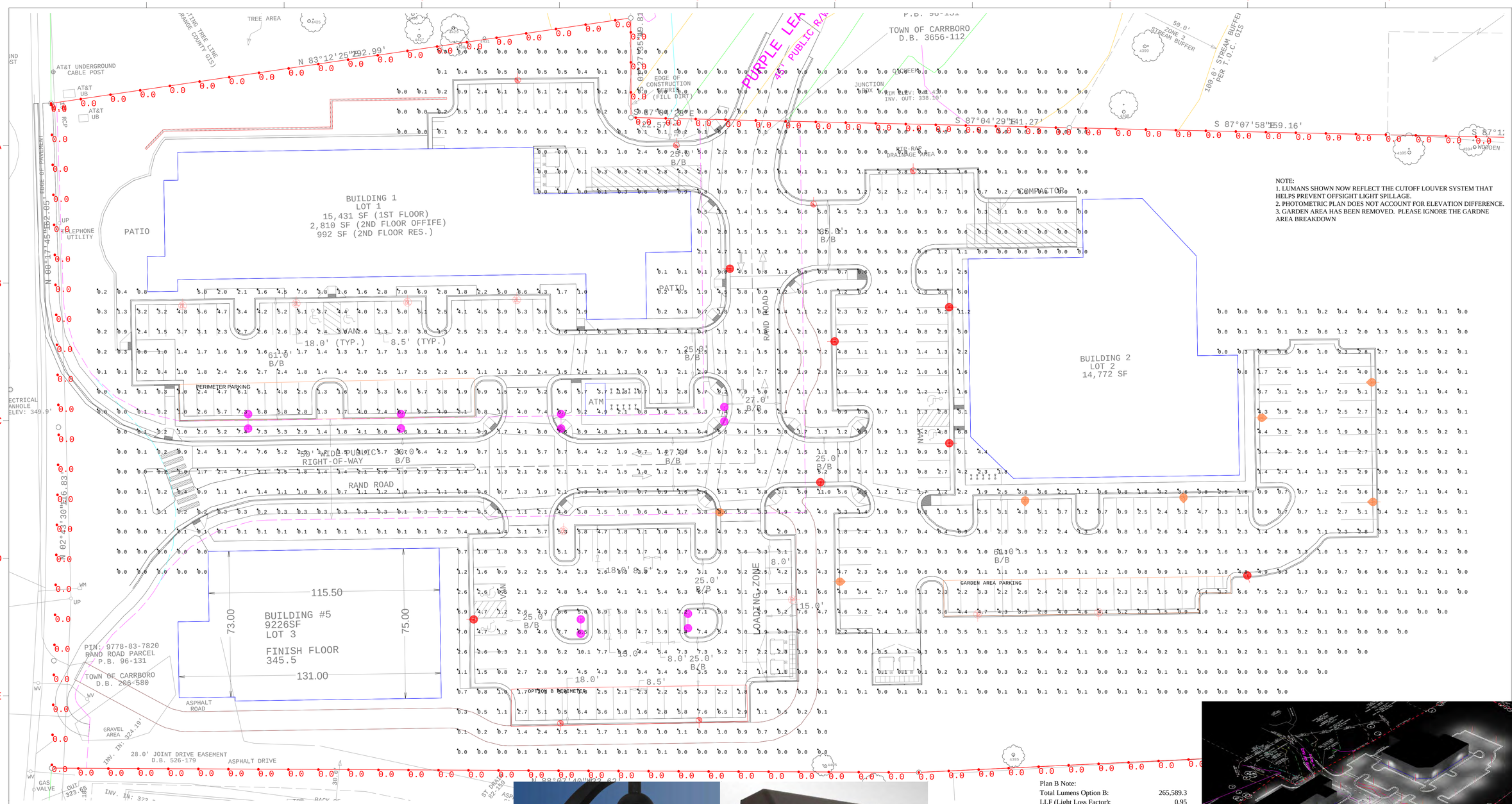
DRAWING NUMBER :	CA081513DS-SOUTH GREEN RUNYON WOODS - CARRBORO,NC-05
PROJECT NAME :	SOUTH GREEN RUNYON WOODS - CARRBORO,NC
LAYOUT DESIGNER :	CA
DESIGNER EMAIL :	calvarenga@visionairelighting.com
PROJECT DATE :	01/15/13
REVISION DATE :	01/07/15
REP :	KB STEPHENS

www.visionairelighting.com
Phone: (310) 512-6480 Fax: (310) 512-6486
19645 Rancho Way-Rancho Domiguez, CA. 90220

POINT-BY-POINT CALCULATION
Illuminance at Grade (Footcandles), unless otherwise specified.

VISIONAIRE LIGHTING

PHOTOMETRIC STUDY



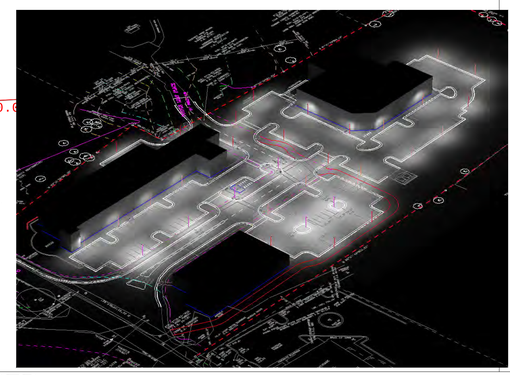
NOTE:
1. LUMANS SHOWN NOW REFLECT THE CUTOFF LOUVER SYSTEM THAT HELPS PREVENT OFFSIGHT LIGHT SPILLAGE.
2. PHOTOMETRIC PLAN DOES NOT ACCOUNT FOR ELEVATION DIFFERENCE.
3. GARDEN AREA HAS BEEN REMOVED. PLEASE IGNORE THE GARDNE AREA BREAKDOWN

Calculation Summary							
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
CalcPts	Illuminance	Fc	1.86	11.2	0.0	N.A.	N.A.
PL	Illuminance	Fc	0.00	0.0	0.0	N.A.	N.A.
GARDEN AREA PAR	Illuminance	Fc	2.91	5.2	0.9	3.23	5.78
OPTION B PERIME	Illuminance	Fc	3.49	9.5	1.6	2.18	5.94
PERIMETER PARKI	Illuminance	Fc	4.43	9.2	1.3	3.41	7.08

Plan B Note:

Total Lumens Option B:	265,589.3
LLF (Light Loss Factor):	0.95
	252,309.9
Mean Lumens*:	0.95
	239,694.4
Area Covered (Acres):	5.98
Lumens per acre:	40,082.68

* Mean lumens (as opposed to initial lumens) are not yet available for these (or most) LEDs. Conventional luminaires would use .70 to .75 as a means lumens factor. For these much more stable and efficient LEDs we have used a very conservative mean lumens factor of .95.



Luminaire Schedule								
Symbol	Qty	Label	Arrangement	Total Lamp Lumens	LLF	Description	BUG Rating	Lum. Watts
	8	1-T2	SINGLE	N.A.	0.950	Visionaire Oden III ODN-3-84LC-T2-5-55K-SINGLE @ 15' MTG. HT.	B2-U0-G2	122
	7	1-T3	SINGLE	N.A.	0.950	Visionaire Oden III ODN-3-84LC-T3-5-55K-SINGLE @ 15' MTG. HT.	B2-U0-G2	122
	6	1-T3-CLS	SINGLE	N.A.	0.950	Visionaire Oden III ODN-3-84LC-T3-5-55K-SINGLE LS @ 15' MTG. HT.	B0-U0-G1	215
	7	1-T4	SINGLE	N.A.	0.950	Visionaire Oden III ODN-3-84LC-T4-5-55K-SINGLE @ 15' MTG. HT.	B2-U0-G2	122
	6	2	BACK-BACK	N.A.	0.950	Visionaire Oden III ODN-3-84LC-T5-5-55K-TWIN @ 15' MTG. HT.	B3-U0-G2	122

DISCLAIMER
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E1002 LIGHTING - OPTION B

DRAWING NUMBER :	CA081513DS-SOUTH GREEN RUNYON WOODS - CARRBORO,NC-07
PROJECT NAME :	SOUTH GREEN RUNYON WOODS - CARRBORO,NC
LAYOUT DESIGNER :	CA
DESIGNER EMAIL :	calvarenga@visionairelighting.com
PROJECT DATE :	01/15/13
REVISION DATE :	01/14/15
REP :	KB STEPHENS

www.visionairelighting.com
Phone: (310) 512-6480 Fax: (310) 512-6486
19645 Rancho Way-Rancho Domiguez, CA. 90220

POINT-BY-POINT CALCULATION
Illuminance at Grade (Footcandles), unless otherwise specified.

VISIONAIRE LIGHTING

PHOTOMETRIC STUDY

VISUAL

LOCATION MAP

Statistics							
Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min	Avg/Max
Calc Zone #2	+	1.7 fc	9.1 fc	0.1 fc	91.0:1	17.0:1	0.2:1

Plan View
Scale - 1" = 35'

E1003 INTERSECTION LIGHTING PLAN

Designer

Date
6/17/2014
Scale
Not to Scale
Drawing No.

Summary

LIGHT-3

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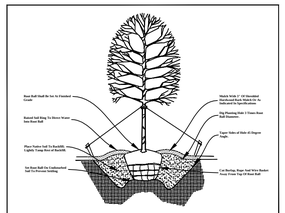
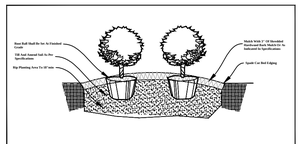


Canopy Or Understory Tree Installation Typical

Scale: NTS



Mass Planting Installation Typical

Scale: NTS

Scope of Work: Furnish all labor, materials and equipment required or indicated by the drawings and specifications to complete the work of this section including installation of trees, shrubs, ground covers, perennials, sod, seeding and mulching.

Work Site: The contractor shall locate all utilities prior to construction.

Plant Bed Preparation: All plant beds shall be ripped to a depth of 18 inches, tilled to a depth of 8 inches and fine graded for planting. Till in a minimum of 1 inch of approved compost, fertilizer and lime as specified in soil test.

Plant Material: All plant materials shall be nursery grow, freshly dug if field grown, naturally shaped and well branched with well developed root systems.
Plant material shall be the size and species as indicted on the plan. Trees should be staked per detail as necessary. All plant material shall be mulched with an approved mulch upon planting.

Seed Slopes: All areas with slopes 2:1 or greater shall be seeded with a seasonally appropriate mix upon completion of grading to stabilize slopes. Erosion control straw wattles shall be used as needed in areas subject to washing. The finial seeding shall include scarifying the soil, applying fertilizer and amendments. The slopes will be seeded with Eragrostis curvula "Weeping Love Grass" and mulched with erosion control straw matting. All slopes shall be re-seeded as necessary to stabilize slope.

Sod Installation: All sod areas shall be ripped to a depth of 18 inches, tilled to a depth of 8 inches and fine graded for planting. Till in fertilizer and lime as specified in soil test. Level and compact surface soil before sod installation. Install freshly harvested hybrid Bermuda sod, roll to provide good soil contact. Water sod immediately upon installation.

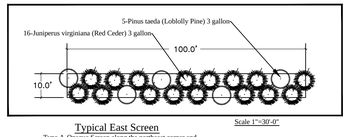
NOTE: All plant and tree locations are approximate.
Root ball size may require field adjustment of final locations.

Type A-Opaque Screen

SYM	QTY	Plant Name	Size	Notes	Plant Type
Trees					
INS	28	Ilex 'Nellie R. Stevens' (Nellie Stevens Holly)	8' Ht	Stagger 8'oc	Evergreen
Jv	14	Juniperus virginiana (Eastern Red Cedar)	8' Ht	Stagger 11'oc	Evergreen
Mg	3	Magnolia grandiflora (Southern Magnolia)	8' Ht		Evergreen
TGG	16	Thuja plicata 'Green Giant' (Green Giant Arborvitae)	8' Ht	Stagger 10'oc	Evergreen
Shrubs					
Tg	25	Ternstroemia gymnanthera (Cleyera)	7 Gallon		Evergreen

Type C-Broken Screen

SYM	QTY	Plant Name	Size	Notes	Plant Type
Trees					
AR	1	Acer rubrum 'Red Sunset' (Red Sunset Maple)	4" Caliper		Deciduous
Cc	3	Cercis canadensis (Redbud)	8' Ht		Deciduous
Mv	1	Magnolia virginiana (Sweet Bay Magnolia)	8' Ht		Evergreen
Qn6	3	Quercus nuttallii (Nuttall Oak)	6" Caliper		Deciduous



Scale 1"=30'-0"

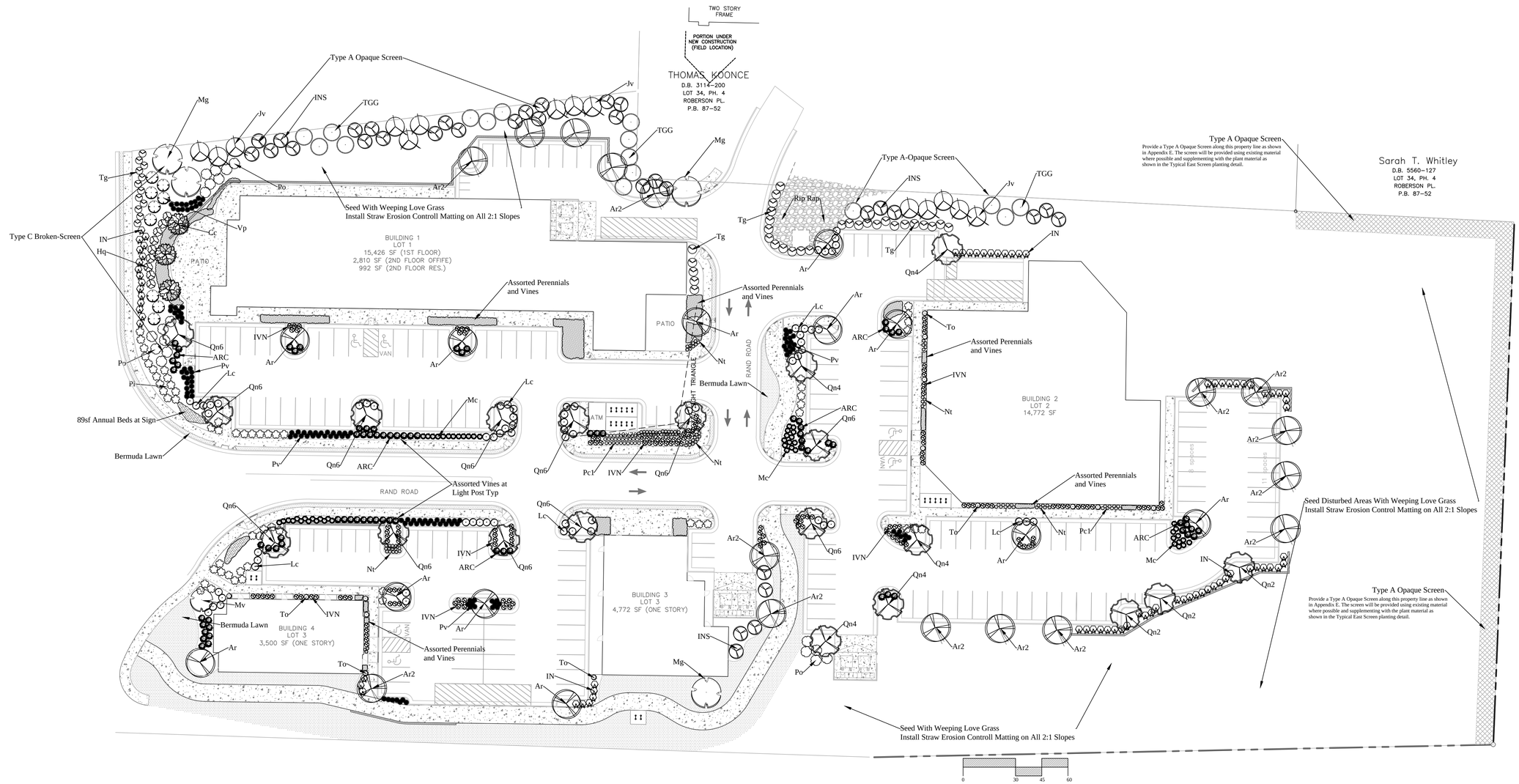
Typical East Screen

Type A-Opaque Screen along the northeast corner and along the east property line as needed to supplement existing plant material. Stagger planting 8'oc.

Plant Schedule

SYM	QTY	Plant Name	Size	Notes	Plant Type
Trees					
Ar	12	Acer rubrum 'Red Sunset' (Red Sunset Maple)	4" Caliper		Deciduous
Ar2	16	Acer rubrum 'Red Sunset' (Red Sunset Maple)	2" Caliper		Deciduous
Cc	3	Cercis canadensis (Redbud)	8' Ht		Deciduous
INS	33	Ilex 'Nellie R. Stevens' (Nellie Stevens Holly)	8' Ht		Evergreen
Jv	14	Juniperus virginiana (Eastern Red Cedar)	8' Ht		Evergreen
Mg	4	Magnolia grandiflora (Southern Magnolia)	8' Ht		Evergreen
Mv	1	Magnolia virginiana (Sweet Bay Magnolia)	8' Ht		Evergreen
Qn2	3	Quercus nuttallii (Nuttall Oak)	2" Caliper		Deciduous
Qn4	5	Quercus nuttallii (Nuttall Oak)	4" Caliper		Deciduous
Qn6	12	Quercus nuttallii (Nuttall Oak)	6" Caliper		Deciduous
To	14	Thuja occidentalis 'Emerald' (Emerald Arborvitae)	6' Ht		Evergreen
TGG	16	Thuja plicata 'Green Giant' (Green Giant Arborvitae)	8' Ht		Evergreen
Shrubs					
ARC	79	Abelia x 'Rose Creek' (Rose Creek Abelia)	3 Gallon		Evergreen
Hq	9	Hydrangea quercifolia (Oakleaf Hydrangea)	5 Gallon		Deciduous
IN	78	Ilex cornuta 'Needlepoint' (Needlepoint Holly)	3 Gallon		Evergreen
IVN	159	Ilex vomitoria 'Nana' (Dwf Yaupon Holly)	3 Gallon		Evergreen
Tg	42	Fernstroemia gymnanthera (Cleyera)	3 Gallon		Evergreen
Lc	69	Loropetalum chinensis v. r. 'Daruma' (Fringe Flower)	3 Gallon		Evergreen
Po	19	Physocarpus opulifolius 'Diablo' (Ninebark)	3 Gallon		Deciduous
Pl	58	Prunus laurocerasus 'Otto Luyken' (Otto Luyken Laurel)	5 Gallon		Evergreen
Vp	9	Viburnum plicatum var. tomentosum (Doublefile Viburnum)	7 Gallon		Deciduous
Grasses					
Mc	50	Muhlenbergia capillaris (Muhly Grass)	1 Gallon		Deciduous
Nt	84	Nessella tenuissima (Mexican Feather Grass)	1 Gallon		Deciduous
Pv	126	Panicum virgatum 'North Wind' (Switch Grass)	1 Gallon		Deciduous
Pc1	47	Pennisetum alopecuroides 'Cassian' (Dwarf Fountain Grass)	1 Gallon		Deciduous
	See Plan	Eragrostis curvula (Weeping Love Grass)	Seed		Deciduous
Perennials/Vines					
	1700sf	Assorted Perennials and Vines	1 Gallon		Varies

Note: This plan includes 132 Total trees. 50 deciduous + 82 evergreen.
(62% Evergreen trees)



L1001 PLANTING PLAN - OPTION A

South Green-A

501 S. Greensboro St
Carrboro NC
Planting Plan

Scale: 1"=30'-0"
Date: 4/21/14
Designed By: Dale Overton
Drawn By: Dale Overton
Revisions: 1/13/15

Sheet: 1 of 1

BLAND LANDSCAPING CO., INC.
Grounds for Excellence
Post Office Box 727
Apex, North Carolina 27502
(919)387-0010 Office
(919)387-0690 Fax

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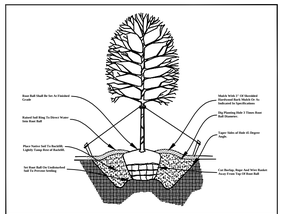
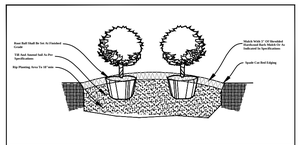


Canopy Or Understory Tree Installation Typical

Scale: NTS



Mass Planting Installation Typical

Scale: NTS

Scope of Work: Furnish all labor, materials and equipment required or indicated by the drawings and specifications to complete the work of this section including installation of trees, shrubs, ground covers, perennials, sod, seeding and mulching.

Work Site: The contractor shall locate all utilities prior to construction.

Plant Bed Preparation: All plant beds shall be ripped to a depth of 18 inches, tilled to a depth of 8 inches and fine graded for planting. Till in a minimum of 1 inch of approved compost, fertilizer and lime as specified in soil test.

Plant Material: All plant materials shall be nursery grow, freshly dug if field grown, naturally shaped and well branched with well developed root systems.
Plant material shall be the size and species as indicted on the plan. Trees should be staked per detail as necessary. All plant material shall be mulched with an approved mulch upon planting.

Seed Slopes: All areas with slopes 2:1 or greater shall be seeded with a seasonally appropriate mix upon completion of grading to stabilize slopes. Erosion control straw wattles shall be used as needed in areas subject to washing. The finial seeding shall include scarifying the soil, applying fertilizer and amendments. The slopes will be seeded with Eragrostis curvula "Weeping Love Grass" and mulched with erosion control straw matting. All slopes shall be re-seeded as necessary to stabilize slope.

Sod Installation: All sod areas shall be ripped to a depth of 18 inches, tilled to a depth of 8 inches and fine graded for planting. Till in fertilizer and lime as specified in soil test. Level and compact surface soil before sod installation. Install freshly harvested hybrid Bermuda sod, roll to provide good soil contact. Water sod immediately upon installation.

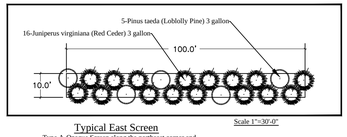
NOTE: All plant and tree locations are approximate.
Root ball size may require field adjustment of final locations.

Type A-Opaque Screen

SYM	QTY	Plant Name	Size	Notes	Plant Type
Trees					
INS	28	Ilex 'Nellie R. Stevens' (Nellie Stevens Holly)	8' Ht	Stagger 8'oc	Evergreen
Jv	14	Juniperus virginiana (Eastern Red Cedar)	8' Ht	Stagger 11'oc	Evergreen
Mg	3	Magnolia grandiflora (Southern Magnolia)	8' Ht		Evergreen
TGG	16	Thuja plicata 'Green Giant' (Green Giant Arborvitae)	8' Ht	Stagger 10'oc	Evergreen
Shrubs					
Tg	25	Ternstroemia gymnanthera (Cleyera)	7 Gallon		Evergreen

Type C-Broken Screen

SYM	QTY	Plant Name	Size	Notes	Plant Type
Trees					
AR	1	Acer rubrum 'Red Sunset' (Red Sunset Maple)	4" Caliper		Deciduous
Cc	3	Cercis canadensis (Redbud)	8' Ht		Deciduous
Mv	1	Magnolia virginiana (Sweet Bay Magnolia)	8' Ht		Evergreen
Qn6	3	Quercus nuttallii (Nuttall Oak)	6" Caliper		Deciduous



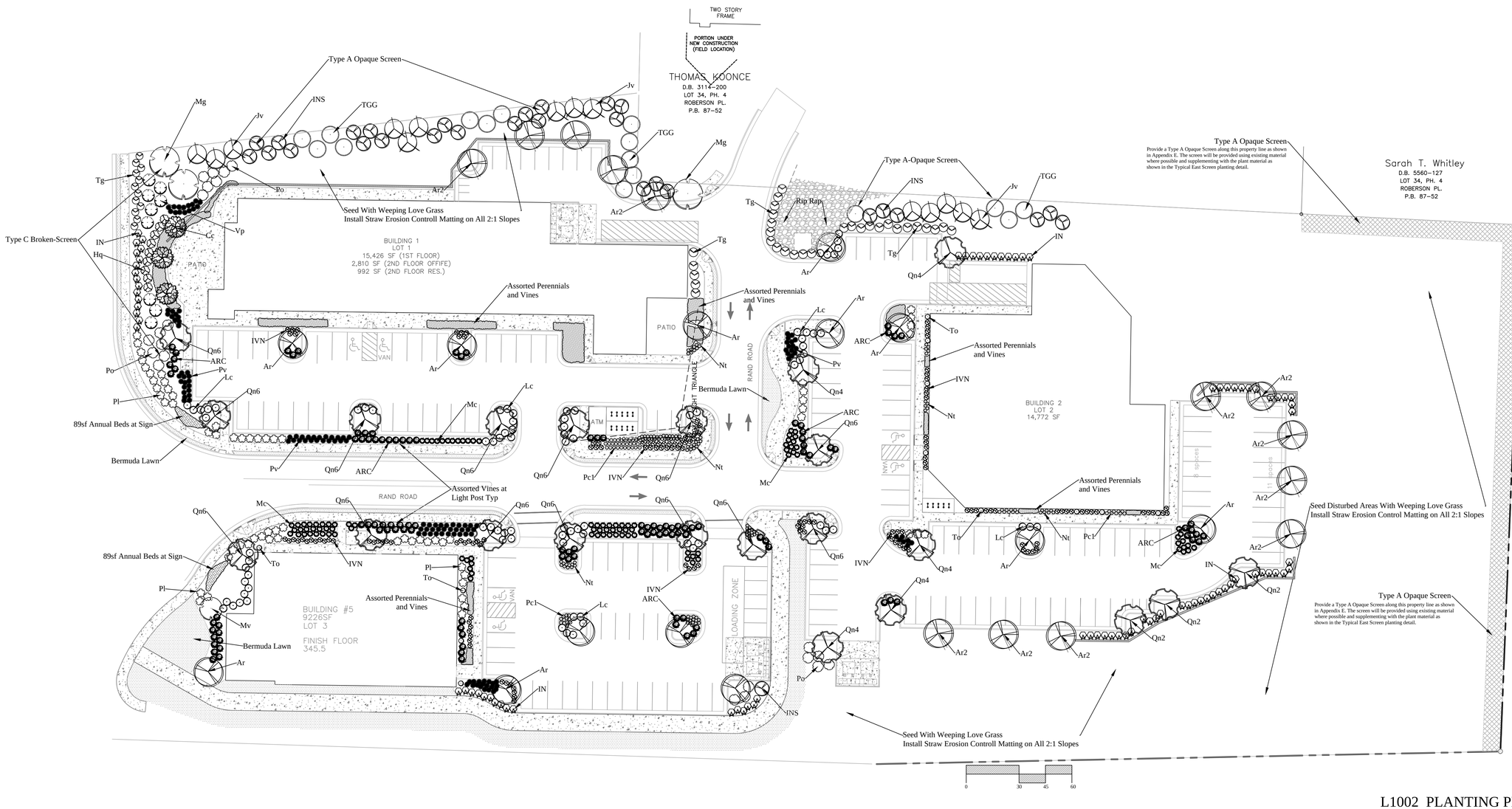
Typical East Screen

Type A-Opaque Screen along the northeast corner and along the east property line as needed to supplement existing plant material. Stagger planting 8'oc.

Plant Schedule

SYM	QTY	Plant Name	Size	Notes	Plant Type
Trees					
Ar	13	Acer rubrum 'Red Sunset' (Red Sunset Maple)	4" Caliper		Deciduous
Ar2	13	Acer rubrum 'Red Sunset' (Red Sunset Maple)	2" Caliper		Deciduous
Cc	3	Cercis canadensis (Redbud)	8' Ht		Deciduous
INS	29	Ilex 'Nellie R. Stevens' (Nellie Stevens Holly)	8' Ht		Evergreen
Jv	14	Juniperus virginiana (Eastern Red Cedar)	8' Ht		Evergreen
Mg	3	Magnolia grandiflora (Southern Magnolia)	8' Ht		Evergreen
Mv	1	Magnolia virginiana (Sweet Bay Magnolia)	8' Ht		Evergreen
Qn2	3	Quercus nuttallii (Nuttall Oak)	2" Caliper		Deciduous
Qn4	5	Quercus nuttallii (Nuttall Oak)	4" Caliper		Deciduous
Qn6	14	Quercus nuttallii (Nuttall Oak)	6" Caliper		Deciduous
To	12	Thuja occidentalis 'Emerald' (Emerald Arborvitae)	6' Ht		Evergreen
TGG	16	Thuja plicata 'Green Giant' (Green Giant Arborvitae)	8' Ht		Evergreen
Shrubs					
ARC	116	Abelia x 'Rose Creek' (Rose Creek Abelia)	3 Gallon		Evergreen
Hq	9	Hydrangea quercifolia (Oakleaf Hydrangea)	5 Gallon		Deciduous
IN	85	Ilex cornuta 'Needlepoint' (Needlepoint Holly)	3 Gallon		Evergreen
IVN	145	Ilex vomitoria 'Nana' (Dwf Youpon Holly)	3 Gallon		Evergreen
Tg	42	Ternstroemia gymnanthera (Cleyera)	3 Gallon		Evergreen
Lc	84	Loropetalum chinensis v. r. 'Daruma' (Fringe Flower)	3 Gallon		Evergreen
Po	22	Physocarpus opulifolius 'Diablo' (Ninebark)	3 Gallon		Deciduous
Pl	66	Prunus laurocerasus 'Otto Luyken' (Otto Luyken Laurel)	5 Gallon		Evergreen
Vp	9	Viburnum plicatum var. tomentosum (Doublefile Viburnum)	7 Gallon		Deciduous
Grasses					
Mc	98	Muhlenbergia capillaris (Muhly Grass)	1 Gallon		Deciduous
Nt	107	Nessella tenuissima (Mexican Feather Grass)	1 Gallon		Deciduous
Pv	134	Panicum virgatum 'North Wind' (Switch Grass)	1 Gallon		Deciduous
Pc1	59	Pennisetum alopecuroides 'Cassian' (Dwarf Fountain Grass)	1 Gallon		Deciduous
	See Plan	Eragrostis curvula (Weeping Love Grass)	Seed		Deciduous
Perennials/Vines					
	1600sf	Assorted Perennials and Vines	1 Gallon		Varies

Note: This plan includes 126 Total trees. 51 deciduous + 75 evergreen.
(59% Evergreen trees)



L1002 PLANTING PLAN - OPTION B

South Green-B

501 S. Greensboro St
Carrboro NC
Planting Plan

Scale: 1"=30'-0"
Date: 4/21/14
Designed By: Dale Overton
Drawn By: Dale Overton
Revisions: 10/13/15

Sheet: 1 of 1

North

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