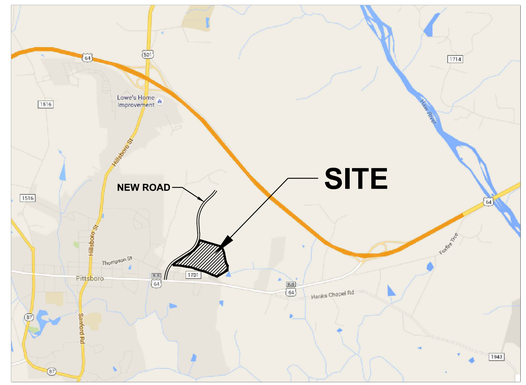
THALES ACADEMY

829 THOMPSON STREET
PITTSBORO, NC 27312

TOWN OF PITTSBORO

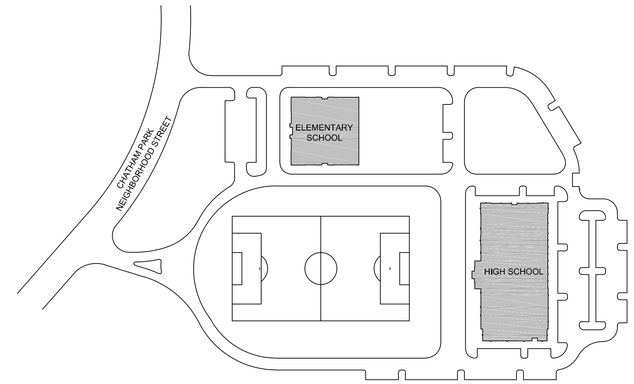
PRELIMINARY SITE PLAN SUBMITTAL

SUBMITTED ON NOVEMBER 3, 2016



VICINITY MAP
SCALE: N.T.S.

NORTH



OVERALL SITE LAYOUT
SCALE: N.T.S.

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SHEET NUMBER	SHEET NAME
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C3.00	OVERALL SITE PLAN
C3.05	TREE COVERAGE AREA AND OPEN SPACE PLAN
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OVERALL PARKING SUMMARY		
VEHICULAR PARKING		
	REQUIRED PARKING	PROVIDED PARKING
REGULAR 9'X18' SPACES	121	235
REGULAR ACCESSIBLE SPACES	5	5
VAN ACCESSIBLE SPACES	2	2
TOTAL VEHICULAR PARKING SPACES	128	242
BIKE PARKING		
BIKE PARKING	110	16

UTILITIES IMPROVEMENTS QTY	
PRIVATE SEWER	
6" PVC SANITARY SEWER SERVICE	400 LF
8" PVC SANITARY SEWER MAIN	700 LF
PUBLIC WATER	
8" WATER MAIN	1,150 LF

SITE DATA	
PROJECT NAME:	THALES ACADEMY CHATHAM PARK
SITE ADDRESS:	123 CHATHAM PARK NEIGHBORHOOD ST
COUNTY:	CHATHAM
PARCEL PIN #:	7386
PARCEL OWNER:	CHATHAM PARK INVESTORS LLC.
PARCEL DEVELOPER:	THALES ACADEMY
PARCEL AREA:	102.66 ACRES
PROJECT AREA:	16.84 ACRES
TOTAL DISTURBED/ PROJECT AREA:	19.45 ACRES
CURRENT ZONING:	PDD (PLANNED DEVELOPMENT DISTRICT)
EXISTING LAND USE:	UNDEVELOPED
PROPOSED USE:	SCHOOL
RIVER BASIN:	CAPE FEAR
CONSTRUCTION TYPE:	NEW
MAX BUILDING HEIGHT:	NO MAX HEIGHT
PROPOSED BUILDING HEIGHT:	38' - 8"
TOTAL PROPOSED BUILDING AREA:	96,944 SF
EXISTING IMPERVIOUS AREA:	0 SF
PROPOSED IMPERVIOUS AREA:	251,451 SF (34.27%)
SETBACKS:	0' FRONT; 0' SIDE; 0' REAR
REQUIRED PARKING SPACES:	128
PROPOSED PARKING SPACES:	242

APPLICANT/OWNER

Thales Academy
DEVELOPING CLASSICAL THINKERS

THALES ACADEMY
4641 PARAGON PARK RD.
RALEIGH, NC 27616

CIVIL ENGINEERING - LANDSCAPE ARCHITECTURE - GEOMATICS - GEOTECHNICAL

STEWART
101 W. MAIN STREET
DURHAM, NC 27701
T 919.380.8750
FIRM LICENSE #: C-1051
www.stewartinc.com
PROJECT #: C15088

STEWART INC. - CIVIL
CONTACT: ADAM PIKE, PE
PROJECT MANAGER
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ARCHITECTS

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ARCHITECTURE, PC

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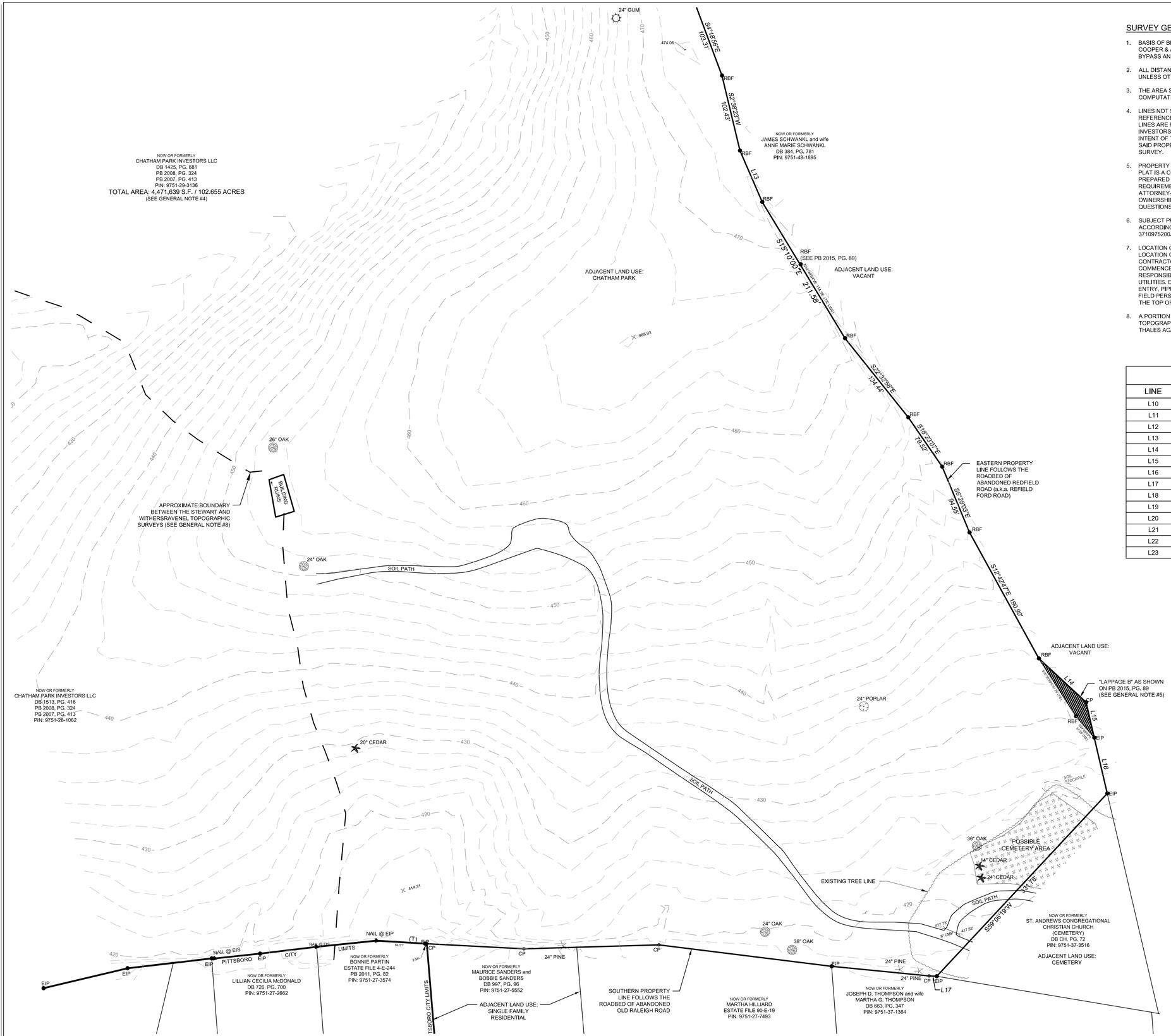
JOE@BAXTERARMISTEAD.COM

SHEET:
C0.00



SURVEY GENERAL NOTES:

1. BASIS OF BEARINGS AND DATUM IS AN EXISTING CONDITIONS SURVEY BY COOPER & ASSOCIATES FOR A PROPOSED CONNECTOR BETWEEN US 64 BYPASS AND US 64 BUSINESS TIED TO NC GRID NAD 83(2011) AND NAVD 88.
2. ALL DISTANCES ARE HORIZONTAL GROUND DISTANCES IN U.S. SURVEY FEET UNLESS OTHERWISE NOTED.
3. THE AREA SHOWN HEREON WAS COMPUTED USING THE COORDINATE COMPUTATION METHOD.
4. LINES NOT SURVEYED ARE SHOWN AS BROKEN LINES FROM INFORMATION REFERENCED ON THE FACE OF THIS PLAT. SUBJECT PROPERTY BOUNDARY LINES ARE FROM A FULL BOUNDARY SURVEY OF THE CHATHAM PARK INVESTORS LLC PROPERTY (PIN: 9751-29-3136) BY WITHERSRAVENEL. THE INTENT OF THIS PLAT IS TO SHOW THE EXISTING CONDITIONS ON A PORTION OF SAID PROPERTY AND IS NOT MEANT TO REPRESENT A FULL BOUNDARY SURVEY.
5. PROPERTY SUBJECT TO ALL EASEMENTS AND RESTRICTIONS OF RECORD. THIS PLAT IS A CORRECT REPRESENTATION OF THE LAND PLATTED AND HAS BEEN PREPARED IN CONFORMITY WITH NORTH CAROLINA STANDARDS AND REQUIREMENTS OF LAW, BUT A NORTH CAROLINA LICENSED ATTORNEY-AT-LAW SHOULD BE CONSULTED REGARDING CORRECT OWNERSHIP, WIDTH, AND LOCATION OF EASEMENTS AND OTHER TITLE QUESTIONS REVEALED BY TITLE EXAMINATION.
6. SUBJECT PROPERTY IS NOT LOCATED WITHIN A FLOOD HAZARD AREA ACCORDING TO FLOOD INSURANCE RATE MAPS 3710975100J PANEL 9751 AND 3710975200J PANEL 9752 BOTH WITH AN EFFECTIVE DATE OF FEBRUARY 2, 2007.
7. LOCATION OF UTILITIES, WHETHER PUBLIC OR PRIVATE, IS BASED UPON FIELD LOCATION OF VISIBLE APPURTENANCES AND IS APPROXIMATE ONLY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY LOCATION PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION. WITHERSRAVENEL CANNOT ASSUME RESPONSIBILITY FOR MISIDENTIFICATION OR OMISSION OF UNDERGROUND UTILITIES, DUE TO OSHA REQUIREMENTS PERTAINING TO CONFINED SPACE ENTRY, PIPE SIZES, INVERT ELEVATIONS, ETC., WILL ONLY BE PROVIDED IF FIELD PERSONNEL ARE ABLE TO OBTAIN WITHOUT BREAKING THE PLANE OF THE TOP OF THE STRUCTURE.
8. A PORTION OF THE TOPOGRAPHIC INFORMATION SHOWN HEREON IS FROM A TOPOGRAPHIC SURVEY BY STEWART ENTITLED "TOPOGRAPHIC SURVEY FOR: THALES ACADEMY" DATED 12/15/15 AND SIGNED/SEALED ON 1/7/16.

LINE TABLE

LINE	BEARING	DISTANCE
L10	S51°02'11"W	74.19'
L11	S10°55'59"W	79.88'
L12	S6°27'56"W	41.22'
L13	S7°17'06"E	74.46'
L14	S31°04'01"E	85.57'
L15	S3°08'20"W	48.20'
L16	S2°59'55"W	76.11'
L17	N71°10'46"W	10.24'
L18	N68°15'38"W	129.91'
L19	N70°26'52"W	66.84'
L20	N79°44'23"W	79.84'
L21	N80°45'52"W	75.60'
L22	N79°57'58"W	60.96'
L23	N72°30'20"W	3.62'

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Client:

Thales Academy
DEVELOPING CLASSICAL THINKERS

THALES ACADEMY
4641 PARAGON PARK RD.
RALEIGH, NC 27616

Project:

THALES ACADEMY CHATHAM PARK

Vicinity map:

Seal:

PRELIMINARY - DO NOT USE FOR CONSTRUCTION

Issued for:

PRELIMINARY SITE PLAN

No.	Date	Description

0 30 60 120
SCALE: 1"=60'
NORTH

Title:

EXISTING CONDITIONS PLAN

Project number: C15113 Sheet:
Date: 08.31.2016
Drawn by: MDS
Approved by: CJM
C1.00

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DEMOLITION NOTES:

1. REFER TO C3.00 FOR GENERAL NOTES.
2. THE CONTRACTOR SHALL REMOVE CONCRETE (WHERE REQUIRED) TO THE FIRST COLD JOINT OR SAW CUT TO OBTAIN A CLEAN EDGE.
3. THE CONTRACTOR SHALL SAWCUT EXISTING ASPHALT (WHERE REQUIRED) TO OBTAIN A CLEAN EDGE.
4. CLEANOUTS AND WATER VALVES LOCATED IN AREAS OF DEMOLITION OR SUBSEQUENT CONSTRUCTION SHALL BE PROTECTED FROM DAMAGE AND RAISED TO BE FLUSH WITH NEW GRADE.
5. ANY UTILITY SERVICES SHOWN TO BE REMOVED OR RELOCATED SHALL BE COORDINATED WITH THE APPROPRIATE UTILITY PROVIDER.
6. CLEAN SOILS SHALL BE UTILIZED FOR BACKFILL. COMPACTION OF THESE SOILS SHALL BE PERFORMED IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS.
7. ALL ITEMS DESIGNATED TO BE REMOVED SHALL BE REMOVED COMPLETELY, INCLUDING ALL SUBGRADE MATERIALS DIRECTLY ASSOCIATED WITH ITEMS TO BE REMOVED.
8. ALL ITEMS DESIGNATED TO BE REMOVED SHALL BE DISPOSED OF LEGALLY OFF-SITE UNLESS OTHERWISE NOTED ON THIS PLAN.
9. REFER TO LANDSCAPE AND EROSION CONTROL DRAWINGS FOR TREE PROTECTION PLAN AND REQUIREMENTS.
10. ALL DEMOLITION SHALL BE IN ACCORDANCE WITH PLANS AND SPECIFICATIONS AND IN ACCORDANCE WITH ALL APPLICABLE STATE AND LOCAL JURISDICTIONAL CODES OR REQUIREMENTS.
11. TREE PROTECTION FENCING SHALL BE IN PLACE PRIOR TO BEGINNING DEMOLITION AND EROSION CONTROL PERMIT SHALL BE OBTAINED AND ONSITE PRIOR TO BEGINNING DEMOLITION (WHERE REQUIRED).
12. ITEMS DESIGNATED FOR RE-USE SHALL BE REMOVED BY THE CONTRACTOR, PROVIDED TO THE OWNER FOR STORAGE AND RE-USE.
13. WHERE UTILITIES ("TO BE REMOVED") IMPACT THE FOOTPRINT OF THE NEW BUILDING, THE CONTRACTOR SHALL EXECUTE AND REMOVE AN ADDITIONAL 2 FEET OF SOILS TO EITHER SIDE OF THE PIPE, AND 1 FOOT BELOW. CLEAN SUITABLE SOIL SHALL BE UTILIZED FOR BACKFILL AND COMPACTED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
14. DEMOLITION AND SUBSEQUENT CONSTRUCTION OF STORM DRAINAGE PIPING SHALL BE PERFORMED IN SUCH A MANNER THAT THE OLD PIPE AND STRUCTURES REMOVED DO NOT IMPACT DRAINAGE UPSTREAM OF THE SYSTEM. PROVISIONS SHALL BE MADE TO MAINTAIN STORM WATER DRAINAGE PATTERNS DURING CONSTRUCTION.
15. DEMOLITION AND SUBSEQUENT CONSTRUCTION OF UTILITIES (WATER, SEWER, ETC) SHALL BE PERFORMED IN SUCH A MANNER THAT THE OLD PIPE AND STRUCTURES REMOVED DO NOT IMPACT OR MINIMIZE SERVICE INTERRUPTION TO EXISTING FACILITIES TO REMAIN. PROVISIONS SHALL BE MADE TO MAINTAIN SERVICE DURING CONSTRUCTION.
16. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING ALL DAMAGES TO THE EXISTING DRIVEWAY, PARKING LOT, SIDEWALK AND CURB AND GUTTER AS A RESULT OF CONSTRUCTION ACTIVITY AND TRAFFIC. CONTRACTOR SHALL MAINTAIN A PRE-CONSTRUCTION VIDEO OR PHOTO DOCUMENTATION TO SHOW NO DAMAGES OCCURRED.
17. WHERE UTILITIES ARE SHOWN TO BE "REMOVED", CONTRACTOR SHALL INCLUDE NECESSARY PLUG OR VALVES TO ENSURE UTILITY LINES TO REMAIN WILL CONTINUE TO BE IN SERVICE. COORDINATE NECESSARY SHUT DOWN AND REMOVAL WITH THE LOCAL JURISDICTION OR UTILITY OWNER.

DEMOLITION LEGEND

- CLEAR AND GRUB
- TP — TREE PROTECTION FENCE
- LIMITS OF DISTURBANCE
- REMOVE TREE
- PROTECT TREE

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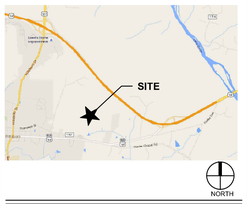

Seal:

NORTH CAROLINA REGISTERED LANDSCAPE ARCHITECT 1886 CHRISTOPHER A. MILLER

PRELIMINARY - DO NOT USE FOR CONSTRUCTION

Issued for:

PRELIMINARY SITE PLAN

No.	Date	Description

0 30 60 120 NORTH

SCALE: 1"=60'

Title:

DEMOLITION PLAN

Project number: C15113 Sheet:
Date: 08.31.2016
Drawn by: MDS
Approved by: CJM

C2.00

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SITE DATA	
PROJECT NAME:	THALES ACADEMY CHATHAM PARK
SITE ADDRESS:	123 CHATHAM PARK NEIGHBORHOOD ST
COUNTY:	CHATHAM
PARCEL PIN #:	7386
PARCEL OWNER:	CHATHAM PARK INVESTORS LLC.
PARCEL DEVELOPER:	THALES ACADEMY
PARCEL AREA:	102.66 ACRES
PROJECT AREA:	16.84 ACRES
TOTAL DISTURBED/ PROJECT AREA:	19.45 ACRES
CURRENT ZONING:	PDD (PLANNED DEVELOPMENT DISTRICT)
EXISTING LAND USE:	UNDEVELOPED
PROPOSED USE:	SCHOOL
RIVER BASIN:	CAPE FEAR
CONSTRUCTION TYPE:	NEW
MAX BUILDING HEIGHT:	NO MAX HEIGHT
PROPOSED BUILDING HEIGHT:	38' - 8"
TOTAL PROPOSED BUILDING AREA:	96,944 SF
EXISTING IMPERVIOUS AREA:	0 SF
PROPOSED IMPERVIOUS AREA:	238,331 SF (32.48%)
SETBACKS:	0' FRONT; 0' SIDE; 0' REAR
REQUIRED PARKING SPACES:	128
PROPOSED PARKING SPACES:	242

IMPERVIOUS COVERAGE CALCULATIONS

IMPERVIOUS AREAS:

BUILDINGS =	48,653 SF
STREETS/PARKING =	151,908 SF
SIDEWALKS =	37,770 SF
TOTAL IMPERVIOUS AREA =	238,331 SF (5.47 AC)

IMPERVIOUS AREA %: 5.47 AC / 16.84 AC = 32.48%

PARKING SPACE REQUIREMENTS

ELEMENTARY SCHOOL:

26 CLASSROOMS X 2 SPACES/ROOM =	52 SPACES
4 OFFICES X 2 SPACES/ROOM =	8 SPACES
TOTAL REQUIRED FOR ELEMENTARY =	60 SPACES

HIGH SCHOOL:

29 CLASSROOMS X 2 SPACES/ROOM =	58 SPACES
5 OFFICES X 2 SPACES/ROOM =	10 SPACES
TOTAL REQUIRED FOR HIGH SCHOOL =	68 SPACES
TOTAL PARKING SPACES REQUIRED:	128 SPACES

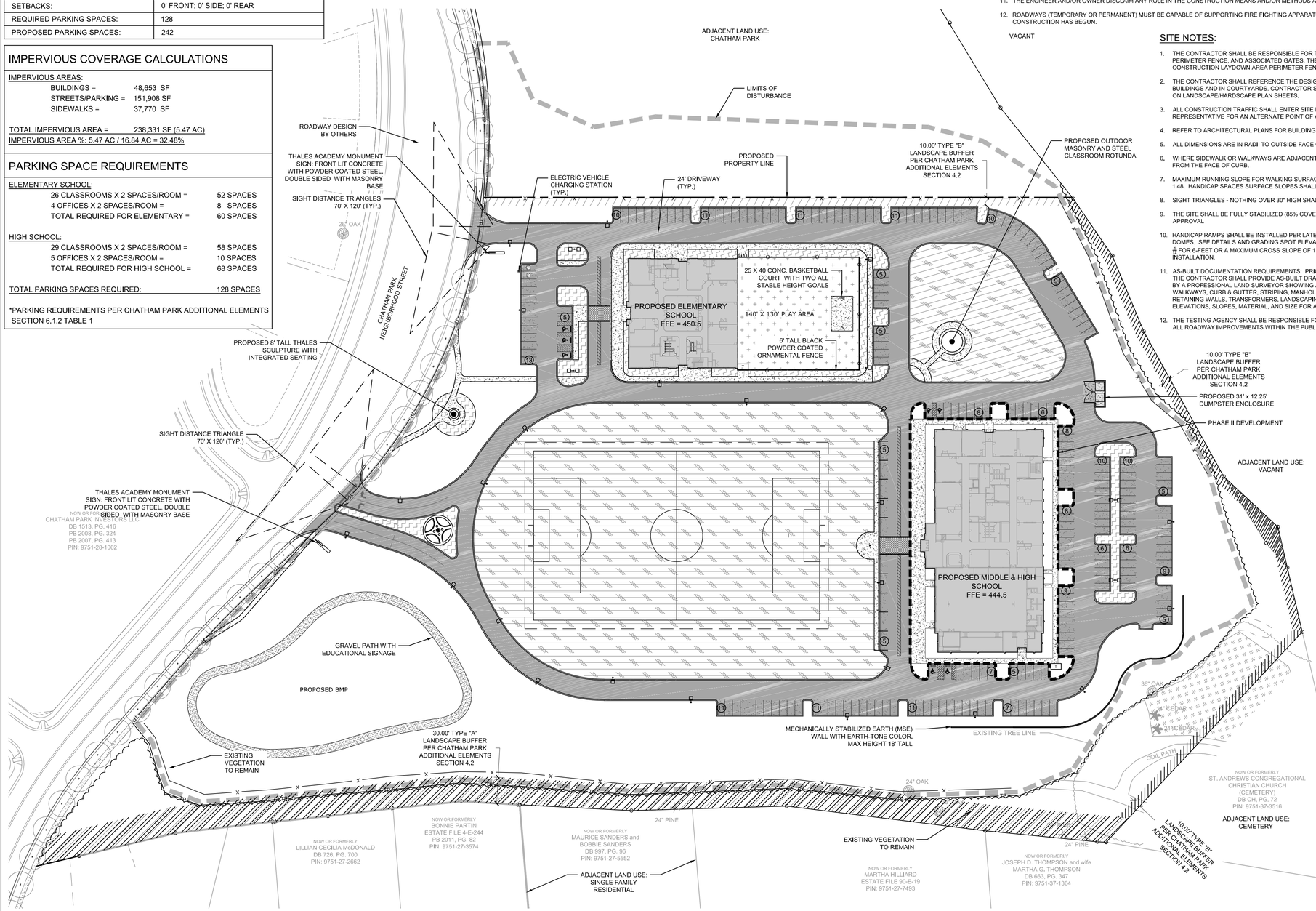
*PARKING REQUIREMENTS PER CHATHAM PARK ADDITIONAL ELEMENTS SECTION 6.1.2 TABLE 1

GENERAL NOTES:

1. ALL MATERIALS AND METHODS OF CONSTRUCTION SHALL BE IN COMPLIANCE WITH THE OFFICE OF STATE CONSTRUCTION, DEPARTMENT OF INSURANCE, NCDENR, AND ALL OTHER APPLICABLE LOCAL, STATE AND FEDERAL GUIDELINES. ALL UTILITY CONSTRUCTION SHALL COMPLY WITH APPLICABLE LOCAL JURISDICTIONAL STANDARDS AND SPECIFICATIONS.
2. EXISTING SURVEY INFORMATION INCLUDING TOPOGRAPHIC INFORMATION PROVIDED BY STEWART , UNLESS OTHERWISE NOTED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFYING EXISTING CONDITIONS PRIOR TO COMMENCEMENT OF ANY WORK. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER'S REPRESENTATIVE OF ANY DISCREPANCIES OR CONFLICTS.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING, COORDINATING AND PAYMENT FOR ALL NECESSARY LOCATING SERVICES INCLUDING INDEPENDENT LOCATING SERVICES. THE CONTRACTOR SHALL PROVIDE NOTICE OF EXCAVATION TO NOTIFICATION CENTER AND FACILITY OWNERS (PER NC STATUTE) NO LESS THAN 3 BUSINESS DAYS AND NO MORE THAN 12 WORKING DAYS PRIOR TO BEGINNING DEMOLITION, EXCAVATION OR ANY OTHER FORM OF CONSTRUCTION. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER'S REPRESENTATIVE OF ANY DISCREPANCIES OR CONFLICTS. NO EXCAVATION OR DEMOLITION SHALL BE STARTED WITHOUT ALL UTILITIES BEING LOCATED.
4. ALL SUB-SURFACE UTILITIES IDENTIFIED ON THE CONSTRUCTION DOCUMENTS ARE SHOWN IN THEIR APPROXIMATE LOCATION BASED ON SURVEY INFORMATION GATHERED FROM FIELD INSPECTION AND/OR ANY OTHER APPLICABLE RECORD DRAWINGS WHICH MAY BE AVAILABLE. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER'S REPRESENTATIVE OF ANY DISCREPANCIES OR CONFLICTS.
5. EXISTING IMPROVEMENTS DAMAGED OR DESTROYED BY THE CONTRACTOR DURING CONSTRUCTION SHALL BE RESTORED OR REPLACED TO ORIGINAL CONDITION AND TO THE SATISFACTION OF THE OWNER'S REPRESENTATIVE AT THE CONTRACTOR'S EXPENSE.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AND COORDINATING PERMITS, INSPECTIONS, CERTIFICATIONS AND OTHER REQUIREMENTS WHICH MUST BE MET UNDER THIS CONTRACT.
7. THE CONTRACTOR SHALL MAINTAIN "AS-BUILT" DRAWINGS TO RECORD THE ACTUAL LOCATION OF ALL PIPING PRIOR TO CONCEALMENT, VALVE AND MANHOLE CHANGES, AND HARDSCAPE OR LANDSCAPE CHANGES. DRAWINGS SHALL BE PROVIDED TO THE OWNER'S REPRESENTATIVE AT REGULAR INTERVALS, OR AS REQUESTED THROUGHOUT THE PROJECT FOR RECORD KEEPING.
8. IF DEPARTURES FROM THE PROJECT DRAWINGS OR SPECIFICATIONS ARE DEEMED NECESSARY BY THE CONTRACTOR, DETAILS OF SUCH DEPARTURES AND REASONS THERE OF SHALL BE SUBMITTED TO THE OWNER'S REPRESENTATIVE FOR REVIEW. NO DEPARTURES FROM THE CONTRACT DOCUMENTS SHALL BE MADE WITHOUT THE EXPRESS WRITTEN PERMISSION OF THE OWNER'S REPRESENTATIVE.
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE RELOCATION OF ANY EXISTING UTILITY LINES REQUIRED TO COMPLETE ANY PORTION OF CONSTRUCTION. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR THE COORDINATION AND COSTS OF THE RELOCATION AND ASSOCIATED WORK.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING THE PREMISES FREE FROM ACCUMULATIONS OF WASTE MATERIALS AND RUBBISH CAUSED BY THE CONTRACTOR. ALL DEBRIS SHALL BE REMOVED FROM THE PROJECT SITE ON A DAILY BASIS.
11. THE ENGINEER AND/OR OWNER DISCLAIM ANY ROLE IN THE CONSTRUCTION MEANS AND/OR METHODS ASSOCIATED WITH THE PROJECT AS SET FORTH IN THESE PLANS.
12. ROADWAYS (TEMPORARY OR PERMANENT) MUST BE CAPABLE OF SUPPORTING FIRE FIGHTING APPARATUS (85,000 LBS) DURING ALL PHASES OF CONSTRUCTION ONCE VERTICAL CONSTRUCTION HAS BEGUN.

SITE NOTES:

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF THE CONSTRUCTION LAYDOWN AREA, PERIMETER FENCE, AND ASSOCIATED GATES. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR THE REMOVAL OF THE CONSTRUCTION LAYDOWN AREA PERIMETER FENCE AND ASSOCIATED GATES AT THE COMPLETION OF THE PROJECT.
2. THE CONTRACTOR SHALL REFERENCE THE DESIGN PLANS FOR DIMENSIONS, JOINT LOCATIONS, AND INLAY SPECIFICATIONS NEAR BUILDINGS AND IN COURTYARDS. CONTRACTOR SHALL PROVIDE JOINTS IN WALKWAYS AND HARDSCAPE PER DETAILS OR AS INDICATED ON LANDSCAPE/HARDSCAPE PLAN SHEETS.
3. ALL CONSTRUCTION TRAFFIC SHALL ENTER SITE FROM _____ UNLESS OTHERWISE APPROVED IN WRITING FROM THE OWNER'S REPRESENTATIVE FOR AN ALTERNATE POINT OF ACCESS.
4. REFER TO ARCHITECTURAL PLANS FOR BUILDING INFORMATION.
5. ALL DIMENSIONS ARE IN RADII TO OUTSIDE FACE OF BUILDINGS, TO CENTERLINES, AND/OR FACE OF CURB UNLESS OTHERWISE NOTED.
6. WHERE SIDEWALK OR WALKWAYS ARE ADJACENT TO PARKING SPACES THE WALKWAY SHALL BE A MINIMUM 6.5' WIDE AS MEASURED FROM THE FACE OF CURB.
7. MAXIMUM RUNNING SLOPE FOR WALKING SURFACES CANNOT BE GREATER THAN 1:20 AND CROSS SLOPES CANNOT BE GREATER THAN 1:48. HANDICAP SPACES SURFACE SLOPES SHALL NOT EXCEED 1:48 IN ALL DIRECTIONS.
8. SIGHT TRIANGLES - NOTHING OVER 30" HIGH SHALL BE ALLOWED WITHIN THE SIGHT DISTANCE TRIANGLES.
9. THE SITE SHALL BE FULLY STABILIZED (85% COVERAGE) PRIOR TO ISSUANCE OF A BUILDING CERTIFICATE OF OCCUPANCY OR PROJECT APPROVAL
10. HANDICAP RAMPS SHALL BE INSTALLED PER LATEST EDITION OF THE NC BUILDING CODE AND ANSI 117.11 WITH DETECTABLE WARNING DOMES. SEE DETAILS AND GRADING SPOT ELEVATIONS, IF EXISTING CONDITIONS PRECLUDE THE ABILITY TO PROVIDE A MAXIMUM SLOPE $\frac{1}{12}$ FOR 6-FEET OR A MAXIMUM CROSS SLOPE OF 1:48 CONTRACTOR SHALL NOTIFY ENGINEER OR OWNER REPRESENTATIVE PRIOR TO INSTALLATION.
11. AS-BUILT DOCUMENTATION REQUIREMENTS: PRIOR TO ISSUANCE OF A BUILDING CERTIFICATE OF OCCUPANCY OR PROJECT APPROVAL THE CONTRACTOR SHALL PROVIDE AS-BUILT DRAWINGS (IN BOTH PAPER AND ELECTRONIC FORMAT (CAD / PDF) PREPARED AND SEALED BY A PROFESSIONAL LAND SURVEYOR SHOWING ALL SURFACE FEATURES INCLUDING, BUT NOT LIMITED TO: HARDSCAPE, PAVEMENT, WALKWAYS, CURB & GUTTER, STRIPING, MANHOLES, CATCH BASINS, HYDRANTS, VALVES, METERS, BACKFLOW HOT BOX(ES), CLEANOUTS, RETAINING WALLS, TRANSFORMERS, LANDSCAPING, AND TREES. UTILITY AS-BUILTS SHALL INCLUDE PIPE AND STRUCTURE INVERT ELEVATIONS, SLOPES, MATERIAL, AND SIZE FOR ALL UTILITIES INSTALLED AS PART OF THE PROJECT.
12. THE TESTING AGENCY SHALL BE RESPONSIBLE FOR PROVIDING THE ASPHALT AND CONTRACTOR CERTIFICATION MEMO TO NCDOT FOR ALL ROADWAY IMPROVEMENTS WITHIN THE PUBLIC RIGHT-OF-WAY.



SITE LEGEND

- PROPOSED BUILDING
- PROPOSED CONCRETE SIDEWALK
- PROPOSED HEAVY DUTY CONCRETE PAVEMENT
- PROPOSED LIGHT DUTY PAVEMENT
- PROPOSED HEAVY DUTY PAVEMENT
- PROPOSED CHAPEL HILL GRIT GRAVEL PAVING
- PROPOSED MORTAR-SET BRICK PAVING
- PROPOSED IRRIGATED LAWN
- PROPOSED PLANTING AREA
- PROPOSED SYNTHETIC TURF
- PROPOSED LANDSCAPE BUFFER TYPE "A"
- PROPOSED LANDSCAPE BUFFER TYPE "B"
- PROPOSED CURB & GUTTER
- PROPOSED STOP BAR
- PROPOSED ADA PARKING SPACE
- PROPOSED KEYSTONE WALL
- PROPOSED CIP WALL
- PROPOSED WHEEL STOP
- EXISTING TREE LINE
- PROPOSED 8' TALL BLACK VINYL COATED CHAIN-LINK FENCE
- PROPOSED 6' TALL BLACK PAINTED STEEL ORNAMENTAL FENCE
- PROPOSED LIMITS OF DISTURBANCE
- PROPOSED PAINTED STEEL DUMPSTER ENCLOSURE GATE (24' WIDE)
- PROPOSED LIGHT
- PROPOSED BIKE RACK

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Project:

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Vicinity map:

Seal:

NORTH CAROLINA REGISTERED LANDSCAPE ARCHITECT 1886 CHRISTOPHER J. MILLER

PRELIMINARY - DO NOT USE FOR CONSTRUCTION

Issued for:

PRELIMINARY SITE PLAN

No.	Date	Description

0 30 60 120 NORTH

SCALE: 1"=60'

Title:

OVERALL SITE PLAN

Project number: C15113 Sheet:
Date: 08.31.2016
Drawn by: MDS
Approved by: CJM

C3.00

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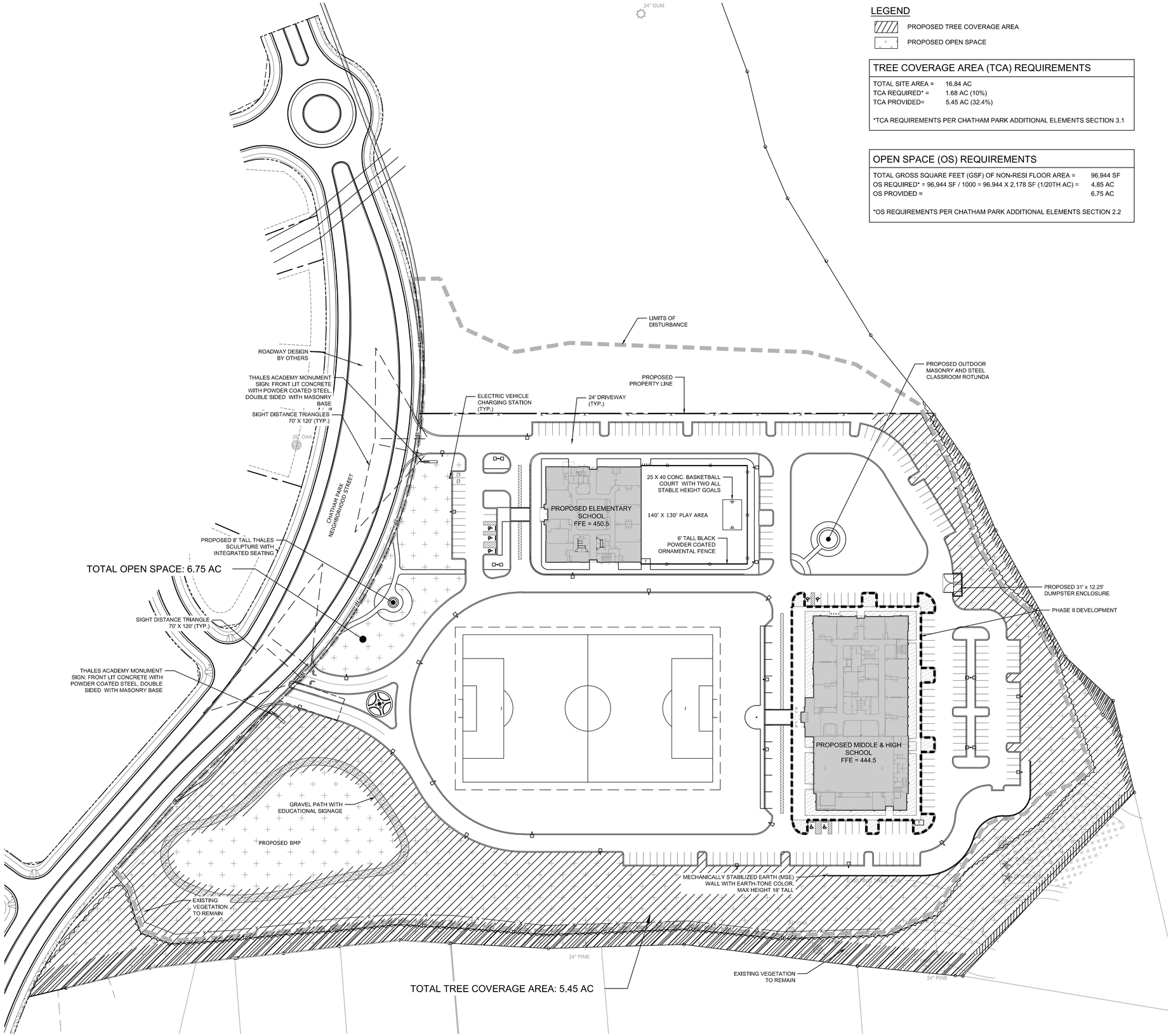

LEGEND

PROPOSED TREE COVERAGE AREA

PROPOSED OPEN SPACE

TREE COVERAGE AREA (TCA) REQUIREMENTS

TOTAL SITE AREA =	16.84 AC
TCA REQUIRED* =	1.68 AC (10%)
TCA PROVIDED=	5.45 AC (32.4%)

*TCA REQUIREMENTS PER CHATHAM PARK ADDITIONAL ELEMENTS SECTION 3.1

OPEN SPACE (OS) REQUIREMENTS

TOTAL GROSS SQUARE FEET (GSF) OF NON-RESI FLOOR AREA =	96,944 SF
OS REQUIRED* = 96,944 SF / 1000 = 96.944 X 2,178 SF (1/20TH AC) =	4.85 AC
OS PROVIDED =	6.75 AC

*OS REQUIREMENTS PER CHATHAM PARK ADDITIONAL ELEMENTS SECTION 2.2

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Client:

Thales Academy
DEVELOPING CLASSICAL THINKERS

THALES ACADEMY
4641 PARAGON PARK RD.
RALEIGH, NC 27616

Project:

THALES ACADEMY CHATHAM PARK

Vicinity map:

Seal:

NORTH CAROLINA REGISTERED LANDSCAPE ARCHITECT 1886 CHRISTOPHER J. MILLER

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PRELIMINARY SITE PLAN

No.	Date	Description

0 30 60 120

NORTH

SCALE: 1"=60'

Title:

TREE COVERAGE AND OPEN SPACE PLAN

Project number: C15113 Sheet:
Date: 08.31.2016
Drawn by: MDS
Approved by: CJM

C3.05

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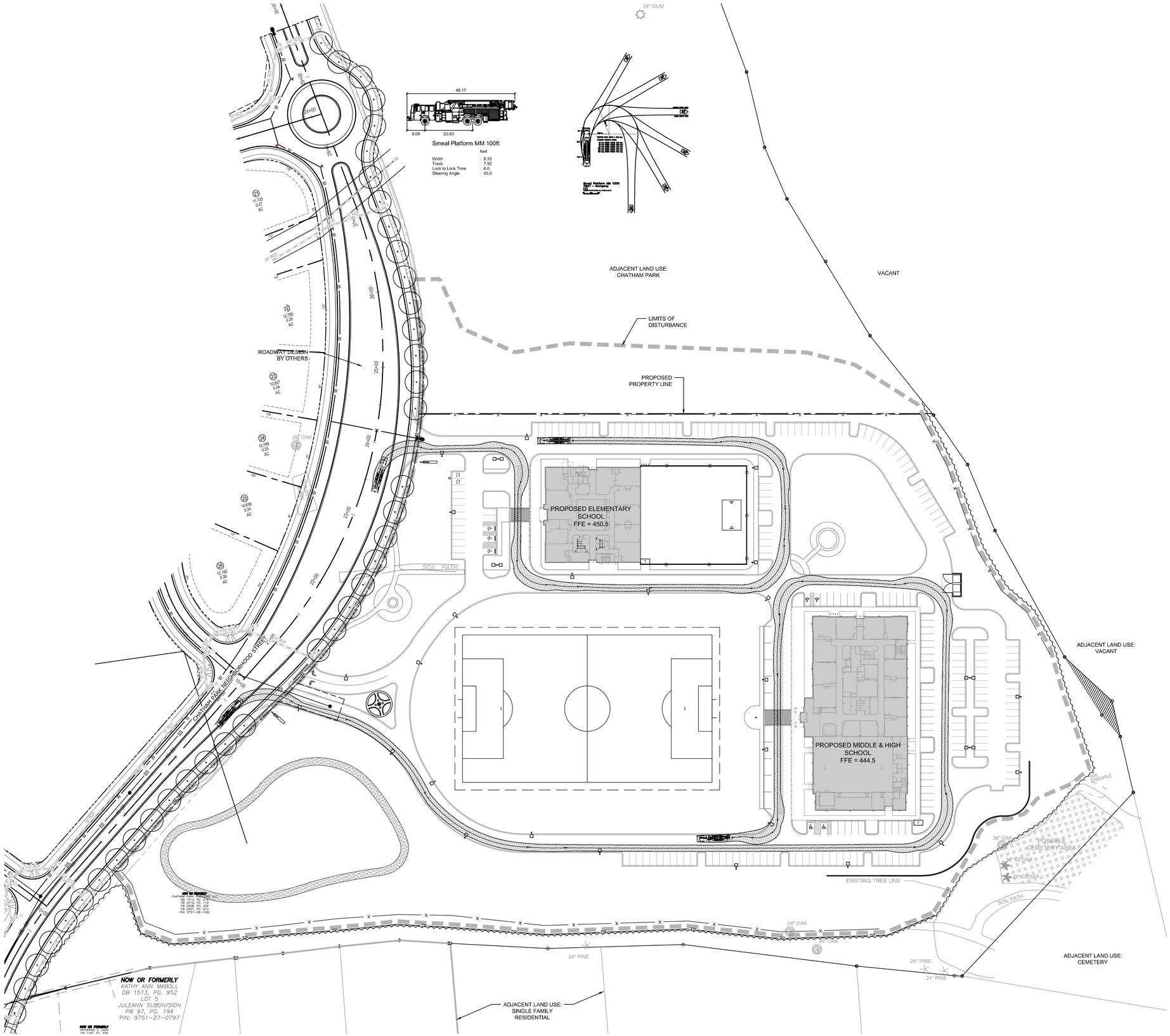

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No.	Date	Description

0 30 60 120

NORTH

SCALE: 1"=60'

Title:

AUTO-TURN EXHIBIT

Project number: C15113 Sheet:
Date: 08.31.2016
Drawn by: MDS
Approved by: CJM

C3.06

EROSION CONTROL NOTES:

1. REFER TO C3.00 FOR GENERAL NOTES.
2. ALL EROSION CONTROL MEASURES SHALL BE INSTALLED IN BEST LOCATION BASED ON FIELD CONDITIONS.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF ALL EROSION CONTROL MEASURES THROUGHOUT THE DURATION OF CONSTRUCTION.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION OF CONSTRUCTION ENTRANCES AS NECESSARY TO PREVENT THE TRACKING OF SEDIMENT OFF-SITE. THE OWNER IS RESPONSIBLE FOR MAINTENANCE OF ALL PERMANENT EROSION CONTROL METHODS AFTER CONSTRUCTION IS COMPLETE, IF ANY PERMANENT METHODS ARE REQUIRED.
5. APPROVAL OF THIS EROSION AND SEDIMENTATION CONTROL (ESC) PLAN DOES NOT CONSTITUTE AN APPROVAL OF DRAINAGE DESIGN (E.G., SIZE AND LOCATION OF ROADS, PIPES, RESTRICTORS, CHANNELS, RETENTION FACILITIES, UTILITIES, ETC.).
6. THE IMPLEMENTATION OF THESE ESC PLANS AND THE CONSTRUCTION, MAINTENANCE, REPLACEMENT, AND UPGRADING OF THESE ESC FACILITIES IS THE RESPONSIBILITY OF THE CONTRACTOR AND ESC SUPERVISOR UNTIL ALL CONSTRUCTION IS APPROVED.
7. DURING THE CONSTRUCTION PERIOD, NO DISTURBANCE BEYOND THE LIMITS OF DISTURBANCE (L.O.D.) SHALL BE PERMITTED. THE L.O.D. SHALL BE MAINTAINED BY THE ESC SUPERVISOR FOR THE DURATION OF CONSTRUCTION.
8. THE ESC FACILITIES SHOWN ON THIS PLAN MUST BE CONSTRUCTED PRIOR TO OR IN CONJUNCTION WITH ALL CLEARING AND GRADING SO AS TO ENSURE THAT THE TRANSPORT OF SEDIMENT TO DRAINAGE SYSTEMS, AND ADJACENT PROPERTIES IS MINIMIZED.
9. THE ESC FACILITIES SHOWN ON THIS PLAN ARE THE MINIMUM REQUIREMENTS FOR ANTICIPATED SITE CONDITIONS. DURING THE CONSTRUCTION PERIOD, THESE ESC FACILITIES SHALL BE UPGRADED AS NEEDED FOR UNEXPECTED STORM EVENTS AND MODIFIED TO ACCOUNT FOR CHANGING SITE CONDITIONS (E.G., ADDITIONAL SUMP PUMPS, RELOCATION OF DITCHES AND SILT FENCES, ETC.).
10. THE ESC FACILITIES SHALL BE INSPECTED DAILY BY THE ESC SUPERVISOR AND MAINTAINED TO ENSURE CONTINUED PROPER FUNCTIONING. WRITTEN RECORDS SHALL BE MAINTAINED BY THE CONTRACTOR THROUGHOUT THE DURATION OF THE PROJECT. COPIES OF THE WRITTEN INSPECTION REPORTS SHALL BE PROVIDED TO THE OWNER'S REPRESENTATIVE TWICE PER WEEK AND AFTER RAINS OF GREATER THAN 0.5". RAIN GAUGE REQUIRED ON SITE.
11. ANY AREAS OF EXPOSED SOILS THAT WILL NOT BE DISTURBED FOR FOURTEEN DAYS SHALL BE IMMEDIATELY STABILIZED WITH THE APPROVED ESC METHODS (E.G., SEEDING, MULCHING, PLASTIC COVERING, ETC.).
12. THE ESC FACILITIES ON INACTIVE SITES SHALL BE INSPECTED AND MAINTAINED A MINIMUM OF ONCE A MONTH OR WITHIN FORTY EIGHT (48) HOURS FOLLOWING A STORM EVENT.
13. AT NO TIME SHALL MORE THAN ONE (1) FOOT OF SEDIMENT BE ALLOWED TO ACCUMULATE WITHIN A CATCH BASIN. ALL CATCH BASINS AND CONVEYANCE LINES SHALL BE CLEANED PRIOR TO PAVING. THE CLEANING OPERATION SHALL NOT FLUSH SEDIMENT LADEN WATER INTO THE DOWNSTREAM SYSTEM.
14. STABILIZED CONSTRUCTION ENTRANCES AND ROADS SHALL BE INSTALLED AT THE BEGINNING OF CONSTRUCTION AND MAINTAINED FOR THE DURATION OF THE PROJECT. ADDITIONAL MEASURES, SUCH AS WASH PADS, MAY BE REQUIRED TO ENSURE THAT ALL PAVED AREAS ARE KEPT CLEAN FOR THE DURATION OF THE PROJECT.
15. WHERE STRAW MULCH FOR TEMPORARY EROSION CONTROL IS REQUIRED, IT SHALL BE A MINIMUM THICKNESS OF 2 TO 3 INCHES.
16. INTERIM SLOPES MAY BE GRADED TO A MAXIMUM SLOPE OF 2:1 (HORIZONTAL: VERTICAL); CUT SLOPES SHALL BE LIMITED TO A MAXIMUM SLOPE OF 1.5:1.
17. THE SURFACE OF AREAS SLOPES STEEPER THAN 1 VERTICAL TO 4 HORIZONTAL THAT ARE TO RECEIVE INTERIM FILL SHALL BE PLOWED, FURROWED, TILLED OR BROKEN UP PRIOR TO PLACING FILL SO THAT FILL MATERIAL WILL BOND WITH EXISTING . " SURFACE. INTERIM FILL SHALL BE PLACED AS SPECIFIED FOR PERMANENT FILLS AND IN LIFTS NOT GREATER THAN 6".
18. PROVIDE DUST CONTROL MEASURES INCLUDING, BUT NOT LIMITED TO, WETTING DOWN TO CONTROL DUST ON SITE, IN ORDER TO PREVENT ANNOYANCE/AND OR DAMAGE TO ADJACENT SITES. CALCIUM CHLORIDE OR ANY OTHER CHEMICAL MATERIAL MAY NOT BE USED ON SUBGRADES OF AREAS TO BE SEEDED OR PLANTED.
19. SEDIMENT LADEN RUNOFF FROM EXCAVATIONS SHALL NOT BE PUMPED DIRECTLY TO STORM DRAINAGE.
20. INSPECTOR REFERS TO LOCAL JURISDICTIONAL (NCDENR OR LOCAL) LAND QUALITY INSPECTOR OR HIS REPRESENTATIVE, FIELD INSPECTIONS MAY REQUIRE ADDITIONAL SEDIMENTATION AND EROSION CONTROL MEASURES AS DEEMED NECESSARY BY THE INSPECTOR.
21. CONSTRUCTION AND MAINTENANCE OF ALL EROSION CONTROL DEVICES SHALL CONFORM TO THE STANDARDS SET FORTH IN THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT, HEALTH AND NATURAL RESOURCES LAND QUALITY SECTION EROSION AND SEDIMENT CONTROL PLANNING LAND DESIGN MANUAL.
22. NOTIFICATION OF LAND RESOURCES SEDIMENT AND EROSION CONTROL SELF-INSPECTION PROGRAM: THE PERSON RESPONSIBLE FOR LAND-DISTURBING ACTIVITIES IS REQUIRED TO INSPECT THE PROJECT AFTER EACH PHASE OF THE PROJECT AND CONTINUED UNTIL PERMANENT GROUND COVER IS ESTABLISHED IN ACCORDANCE WITH NCGS 113A-54.1 AND 15A NCAC 4B.0131 TO MAKE SURE THAT THE APPROVED EROSION AND SEDIMENTATION CONTROL PLAN IS BEING FOLLOWED. THE SELF-INSPECTION REPORT FORM IS AVAILABLE AS AN EXCEL SPREADSHEET FORM HTTP://WWW.DLR.ENR.STATE.NC.US/PAGES/SEDIMENTATION_NEW.HTML

TREE PROTECTION NOTES:

1. TREE PROTECTION FENCING MUST BE IN PLACE PRIOR TO ANY DEMOLITION, LAND DISTURBANCE OR ISSUANCE OF A GRADING PERMIT. OR OBTAIN A GRADING PERMIT THEN TREE PROTECTION FENCING MUST BE IN PLACE PRIOR TO ANY DEMOLITION, LAND DISTURBANCE
2. TREE PROTECTION FENCING SHALL INCLUDE WARNING SIGNS POSTED IN BOTH ENGLISH AND SPANISH, AS FOLLOWS: "NO TRESPASSING/TREE PROTECTION AREA/PROHIBIDO ENTRAR / ZONA PROTECTORA PARA LOS ÁRBOLES."
3. PROTECTION OF EXISTING VEGETATION: AT THE START OF GRADING INVOLVING THE LOWERING OF EXISTING GRADE AROUND A TREE OR STRIPPING OF TOPSOIL, A CLEAN, SHARP, VERTICAL CUT SHALL BE MADE AT THE EDGE ON THE TREE ROOTS OUTSIDE OF THE TREE SAVE AREA. THIS SHALL OCCUR AT THE SAME TIME THAT OTHER EROSION CONTROL MEASURES ARE INSTALLED. THE TREE PROTECTION FENCING SHALL BE INSTALLED ON THE SIDE OF THE CUT FARTHEST AWAY FROM THE TREE TRUNK AND SHALL REMAIN IN PLACE UNTIL ALL CONSTRUCTION IN THE VICINITY OF THE TREES IS COMPLETE.
4. NO STORAGE OF MATERIALS, FILL, OR EQUIPMENT AND NO TRESPASSING SHALL BE ALLOWED WITHIN THE BOUNDARY OF THE PROTECTED TREE AREA.
5. TREE PROTECTION AREA: EQUALS ONE FOOT OF RADIUS FOR EVERY INCH OF DIAMETER OF EXISTING TREES, OR SIX FOOT RADIUS, WHICHEVER IS GREATER. NO DISTURBANCE ALLOWED WITHIN THIS AREA.

Sediment Basin Summary:

Basin ID	=	ST 1	
Req. Volume	=	18,000	CF
Provided Volume	=	91,719	CF
Req. Surface Area	=	14976	SF
Provided Surf. Area	=	33,930	SF
Bottom Width	=	112	ft
Bottom Length	=	243	ft
Surface Width	=	130	ft
Surface Length	=	261	ft
Top Width	=	142	ft
Top Length	=	273	ft
Stone Outlet Width	=	40	ft
Outlet Sideslopes	=	3	:1
Storage Depth	=	3	ft
Dam Height	=	4.5	ft
Sideslopes	=	3	:1
Skimmer Size	=	6	in
Head on Skimmer	=	0.417	ft
Orifice Size	=	4.50	in
Dewatering Time	=	3.04	days

Note: All Calculations are based on a 10 year return rainfall and in accordance with the North Carolina Erosion and Sedimentation Planning and Design Manual.

ST 1

Contour (ft)	Area (ft2)	Incr Vol (ft3)	Accum Vol (ft3)
429	23367	0	0
430	25387	24377	24377
431	27464	26426	50803
432	29599	28531	79334
433	31790	30694	110028
434	34039	32915	142943

SEQUENCE OF CONSTRUCTION ACTIVITIES:

1. OBTAIN GRADING PERMIT.
2. DETERMINE AND MARK LIMITS OF DISTURBANCE.
3. A PRECONSTRUCTION CONFERENCE MUST BE HELD 48 HOURS PRIOR TO THE START OF ANY CONSTRUCTION ACTIVITIES. THE EROSION CONTROL INSPECTOR, ARCHITECT, ENGINEER, AND CONTRACTOR SHALL BE PRESENT TO SATISFY REQUIREMENTS.
4. INSTALL CONSTRUCTION ENTRANCE, TREE PROTECTION FENCING, SILT FENCE, PERIMETER EROSION CONTROL DEVICES AND ALL REQUIRED BASINS AND TRAPS.
5. SCHEDULE SITE INSPECTION.
6. UPON APPROVAL TO PROCEED BY THE EROSION CONTROL INSPECTOR, HARVEST ANY TIMBER.
7. CONSTRUCT REMAINING EROSION CONTROL MEASURES AS REQUIRED.
8. REMOVE AND/OR STORE TOPSOIL.
9. BEGIN GRADING OPERATIONS.
10. CLEAN SEDIMENT BASINS/TRAPS WHEN ONE-HALF FULL.
11. ALL STREETS SURROUNDING THE PROJECT SHALL BE KEPT CLEAN AT ALL TIMES.
12. PLACE TEMPORARY SEEDING ON ALL DISTURBED AREAS THAT WILL BE IDLE 14 DAYS OR LONGER.
13. PERMANENT SURFACE STABILIZATION SHALL BE INSTALLED FOR ALL AREAS WITHIN 14 DAYS AFTER FINAL GRADE HAS BEEN REACHED. AS NECESSARY, FERTILIZE, WATER AND RESEED AS REQUIRED TO ESTABLISH AND MAINTAIN A VIGOROUS STAND OF GRASS.
14. AFTER COMPLETION OF CONSTRUCTION AND THE SITE IS STABILIZED, REMOVE ALL ACCUMULATED SEDIMENT FROM SEDIMENT TRAPPING MEASURES AND DISPOSE BY MEANS DEEMED ACCEPTABLE BY THE ENGINEER. SCHEDULE SITE INSPECTION. UPON APPROVAL BY THE EROSION CONTROL INSPECTOR, REMOVE TEMPORARY EROSION CONTROL MEASURES, SMOOTH AREA AND APPLY APPROPRIATE STABILIZATION.
15. STORMWATER PERMIT INSPECTION REPORTS SHALL BE PERFORMED BY THE CONTRACTOR UNTIL NOTIFIED OTHERWISE BY THE EROSION CONTROL INSPECTOR.

NOTES:

1. INSPECTOR REFERS TO LOCAL JURISDICTIONAL (NCDENR OR LOCAL) LAND QUALITY INSPECTOR OR HIS REPRESENTATIVE, FIELD INSPECTIONS MAY REQUIRE ADDITIONAL SEDIMENTATION AND EROSION CONTROL MEASURES AS DEEMED NECESSARY BY THE INSPECTOR.
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Diversion Channel Dimension Table

Channel	Bottom Width (Y)		Sideslope (M)		Top Width (W)		Lining	Channel Depth	(FT)	Velocity	
DD-01	0.00	FT	2	:1	7	FT	POLYPROPLYLENE TURF REINF. MATTING	1.75	FT	7.28	FT/S
DD-02	0.00	FT	2	:1	6	FT	POLYPROPLYLENE TURF REINF. MATTING	1.5	FT	6.50	FT/S

Excavated Storage Summary:

Basin ID	=	EXS-01	
Disturbed Area	=	4.91	Ac
Bottom Width	=	312	ft
Bottom Length	=	11	ft
Surface Width	=	320	ft
Surface Length	=	19	ft
Top Width	=	326	ft
Top Length	=	25	ft
Storage Depth	=	2	ft
Sideslopes	=	2	:1

Note: All Calculations are based on a 10 year return rainfall and in accordance with the North Carolina Erosion and Sedimentation Planning and Design Manual.

TEMPORARY SEEDBED PREPARATION:

1. CHISEL COMPACTED AREAS AND SPREAD TOPSOIL THREE INCHES DEEP OVER ADVERSE SOIL CONDITIONS, IF AVAILABLE.
2. RIP THE ENTIRE AREA TO SIX INCHES DEEP.
3. REMOVE ALL LOOSE ROCK, ROOTS AND OTHER OBSTRUCTIONS, LEAVING SURFACE REASONABLY SMOOTH AND UNIFORM.
4. APPLY AGRICULTURAL LIME, FERTILIZER AND SUPERPHOSPHATE UNIFORMLY AND MIX WITH SOIL (SEE ADMIXTURE BELOW).
5. CONTINUE TILLAGE UNTIL A WELL-PULVERIZED, FIRM, REASONABLY UNIFORM SEEDBED IS PREPARED FOUR TO SIX INCHES DEEP.
6. SEED ON A FRESHLY PREPARED SEEDBED AND COVER SEED LIGHTLY WITH SEEDING EQUIPMENT OR CULTIPACK AFTER SEEDING.
7. MULCH IMMEDIATELY AFTER SEEDING AND ANCHOR MULCH.
8. INSPECT ALL SEEDED AREAS AND MAKE NECESSARY REPAIRS OR RESEEDINGS WITHIN THE PLANTING SEASON, IF POSSIBLE. IF STAND SHOULD BE MORE THAN 60% DAMAGED, RE-ESTABLISH FOLLOWING THE ORIGINAL LIME, FERTILIZER AND SEEDING RATES.
9. CONSULT S&EC ENVIRONMENTAL ENGINEERS ON MAINTENANCE TREATMENT AND FERTILIZATION AFTER PERMANENT COVER IS ESTABLISHED.

SEEDBED PREPARATION:

1. CHISEL COMPACTED AREAS AND SPREAD TOPSOIL 3 INCHES DEEP OVER ADVERSE SOIL CONDITIONED, IF AVAILABLE.
2. RIP THE ENTIRE AREA TO 6 INCHES DEPTH.
3. REMOVE ALL LOOSE ROCK, ROOTS, AND OTHER OBSTRUCTIONS LEAVING SURFACE REASONABLY SMOOTH AND UNIFORM.
4. APPLY ALL AGRICULTURAL LIME, FERTILIZER, AND SUPERPHOSPHATE UNIFORMLY AND MIX WITH SOIL (SEE BELOW).
5. CONTINUE TILLAGE UNTIL A WELL PULVERIZED, FIRM, REASONABLY UNIFORM 4 TO 6 INCHES DEEP SEEDBED IS PREPARED.
6. SEED ON A FRESHLY PREPARED SEED BED AND COVER SEED LIGHTLY WITH SEEDING EQUIPMENT OR CULTIPACK AFTER SEEDING.
7. MULCH IMMEDIATELY AFTER SEEDING AND ANCHOR MULCH.
8. INSPECT ALL SEEDED AREAS AND MAKE NECESSARY REPAIRS OR RESENDING WITHIN THE PLANTING SEASON, IF POSSIBLE. IF STAND SHOULD BE OVER 60% DAMAGED , REESTABLISH FOLLOWING ORIGINAL LIME, FERTILIZER AND SEEDING RATES.
9. INSPECT ALL SEEDED AREAS AND MAKE NECESSARY REPAIRS OR RESENDING WITHIN THE PLANTING SEASON, IF POSSIBLE. IF STAND SHOULD BE OVER 50% DAMAGED , REESTABLISH FOLLOWING ORIGINAL LIME, FERTILIZER AND SEEDING RATES AND LANDSCAPING PLANS.
10. SEE LANDSCAPING PLANS FOR PERMANENT SEEDING, MULCHING, AND FERTILIZING RATES. ALL AREAS NOT DESIGNATED TO RECEIVE PLANTS SHALL BE SEEDED PER THE LANDSCAPING PLANS.

ADMIXTURES

AGRICULTURAL LIMESTONE: 2 TONS/ACRE

FERTILIZER: 1,000 LBS/ACRE - 10-10-10

SUPERPHOSPHATE: 500 LBS/ACRE - 20% ANALYSIS

MULCH: 2 TONS/ACRE - SMALL GRAIN STRAW

ANCHOR: ASPHALT EMULSION AT 300 GALS/ACRE

SEEDING SCHEDULE

SHOULDERS, SIDE DITCHES, SLOPES (Max 3:1)

DATE	TYPE	PLANTING RATE
AUG 15 - NOV 1	TALL FESCUE	300 LBS/ACRE
NOV 1 - MAR 1	TALL FESCUE & ABRUZZI RYE	300 LBS/ACRE 25 LBS/ACRE
MAR 1 - APR 15	TALL FESCUE	300 LBS/ACRE
APR 15 - JUN 30	HULLED COMMON BERMUDAGRASS	25 LBS/ACRE
JUL 1 - AUG 15	TALL FESCUE AND ***BROWNTOP MILLET ***OR SORGHUM-SUDAN HYBRIDS	120 LBS/ACRE 35 LBS/ACRE 30 LBS/ACRE

SLOPES (3:1 to 2:1)

DATE	TYPE	PLANTING RATE
MAR 1 - JUN 1 (MAR 1 - APR 15)	***BROWNTOP MILLET ADD TALL FESCUE OR ADD HULLED COMMON BERMUDAGRASS	50 LBS/ACRE 120 LBS/ACRE (MAR 1 - JUN 30) 25 LBS/ACRE
JUN 1 - SEP 1	***TALL FESCUE AND ***BROWNTOP MILLET ***OR SORGHUM-SUDAN HYBRIDS	120 LBS/ACRE 35 LBS/ACRE 30 LBS/ACRE
SEP 1 - MAR 1	ANNUAL RYE AND TALL FESCUE ADD ABRUZZI RYE	70 LBS/ACRE 120 LBS/ACRE (NOV 1 - MAR 1) 25 LBS/ACRE

CONSULT CONSERVATION ENGINEER OR SOIL CONSERVATION SERVICE FOR ADDITIONAL INFORMATION CONCERNING OTHER ALTERNATIVES FOR VEGETATION OF DENUDED AREAS. THE ABOVE VEGETATION RATES ARE THOSE WHICH DO WELL UNDER LOCAL CONDITIONS; OTHER SEEDING RATE COMBINATIONS ARE POSSIBLE.

***TEMPORARY - RESEED ACCORDING TO OPTIMUM SEASON FOR DESIRED PERMANENT VEGETATION. DO NOT ALLOW TEMPORARY COVER TO GROW OVER 12" IN HEIGHT BEFORE MOWING, OTHERWISE FESCUE MAY BE SHADED OUT.

TOTAL AREA OF DISTURBANCE
16.86 AC

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Vicinity map:

Seal:

NORTH CAROLINA PROFESSIONAL SEAL 036231 ENGINEER ADAM C. PIKE

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Issued for:

PRELIMINARY SITE PLAN

No.	Date	Description

SCALE: N.T.S.

Title:

EROSION CONTROL NOTES

Project number: C15113 Sheet:
Date: 08.31.2016
Drawn by: MDS
Approved by: CJM

C4.00

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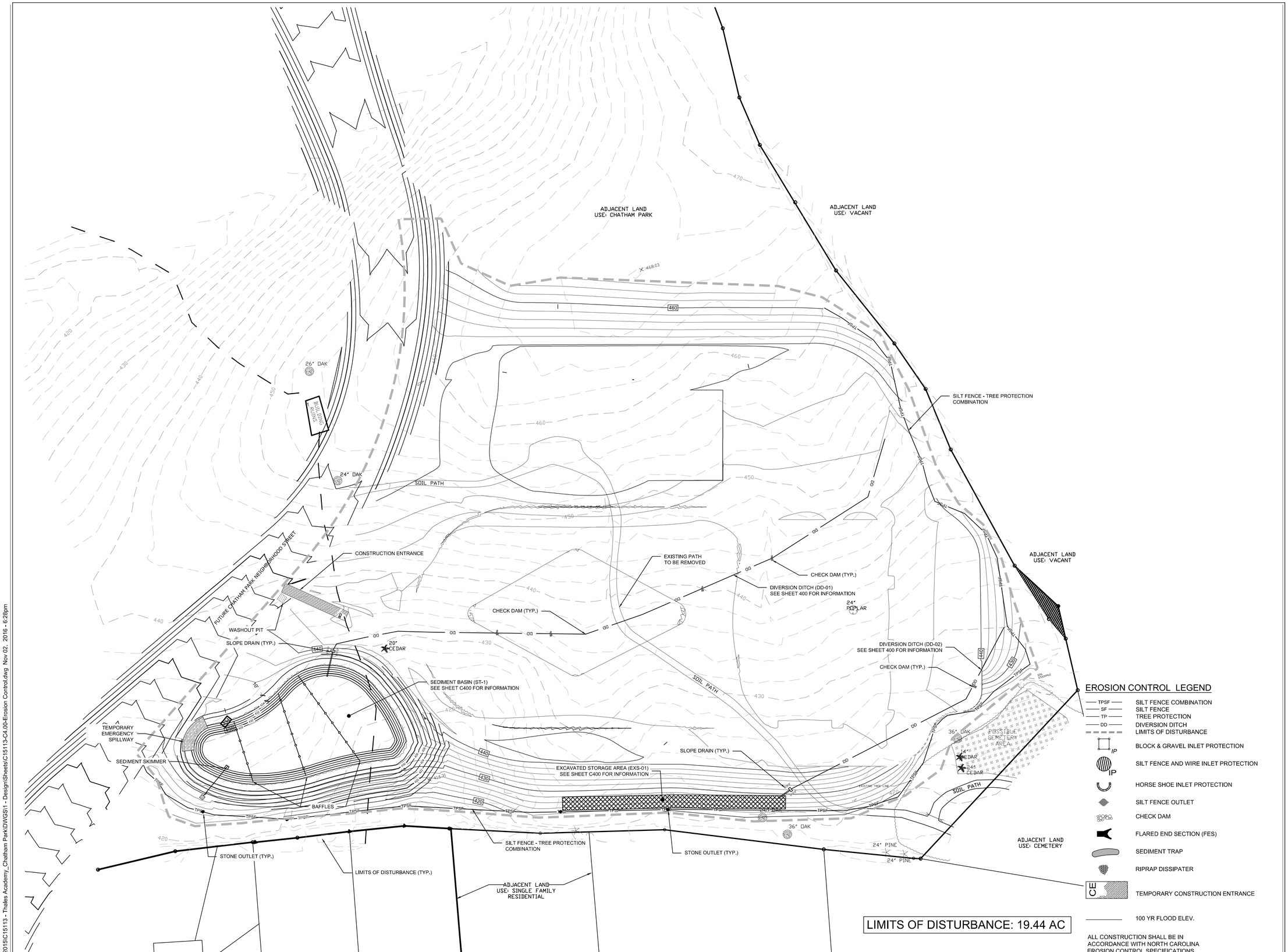

EROSION CONTROL LEGEND

- TPSF — SILT FENCE COMBINATION
- SF — SILT FENCE
- TP — TREE PROTECTION
- DD — DIVERSION DITCH
- LIMITS OF DISTURBANCE
- IP — BLOCK & GRAVEL INLET PROTECTION
- IP — SILT FENCE AND WIRE INLET PROTECTION
- HORSE SHOE INLET PROTECTION
- SILT FENCE OUTLET
- CHECK DAM
- FLARED END SECTION (FES)
- SEDIMENT TRAP
- RIPRAP DISSIPATER
- CE — TEMPORARY CONSTRUCTION ENTRANCE
- 100 YR FLOOD ELEV.

ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH NORTH CAROLINA EROSION CONTROL SPECIFICATIONS

0 30 60 120 NORTH

SCALE: 1"=60'

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Vicinity map:

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Title:

EROSION CONTROL PLAN (PHASE I)

Project number: C15113 Sheet:
Date: 08.31.2016
Drawn by: MDS
Approved by: CJM

C4.01

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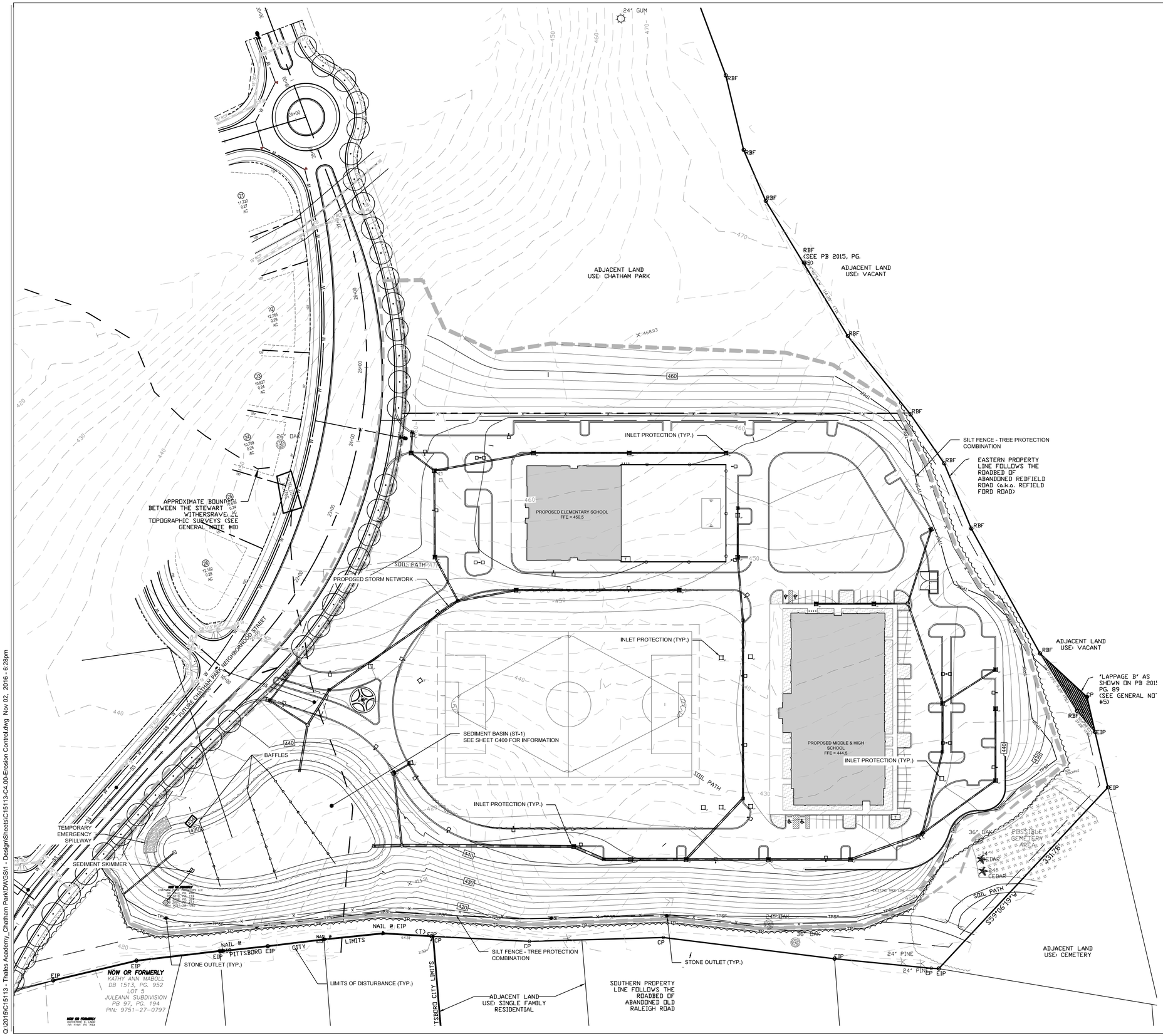

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PROJECT #: C15113

Client:

Thales Academy
DEVELOPING CLASSICAL THINKERS

THALES ACADEMY
4641 PARAGON PARK RD.
RALEIGH, NC 27616

Project:

THALES ACADEMY CHATHAM PARK

Vicinity map:

Seal:

NORTH CAROLINA PROFESSIONAL SEAL 036231 ENGINEER ADAM C. PIKE

PRELIMINARY - DO NOT USE FOR CONSTRUCTION

Issued for:

PRELIMINARY SITE PLAN

No.	Date	Description

Title:

EROSION CONTROL PLAN (PHASE II)

Project number: C15113 Sheet:
Date: 08.31.2016
Drawn by: MDS
Approved by: CJM

C4.02

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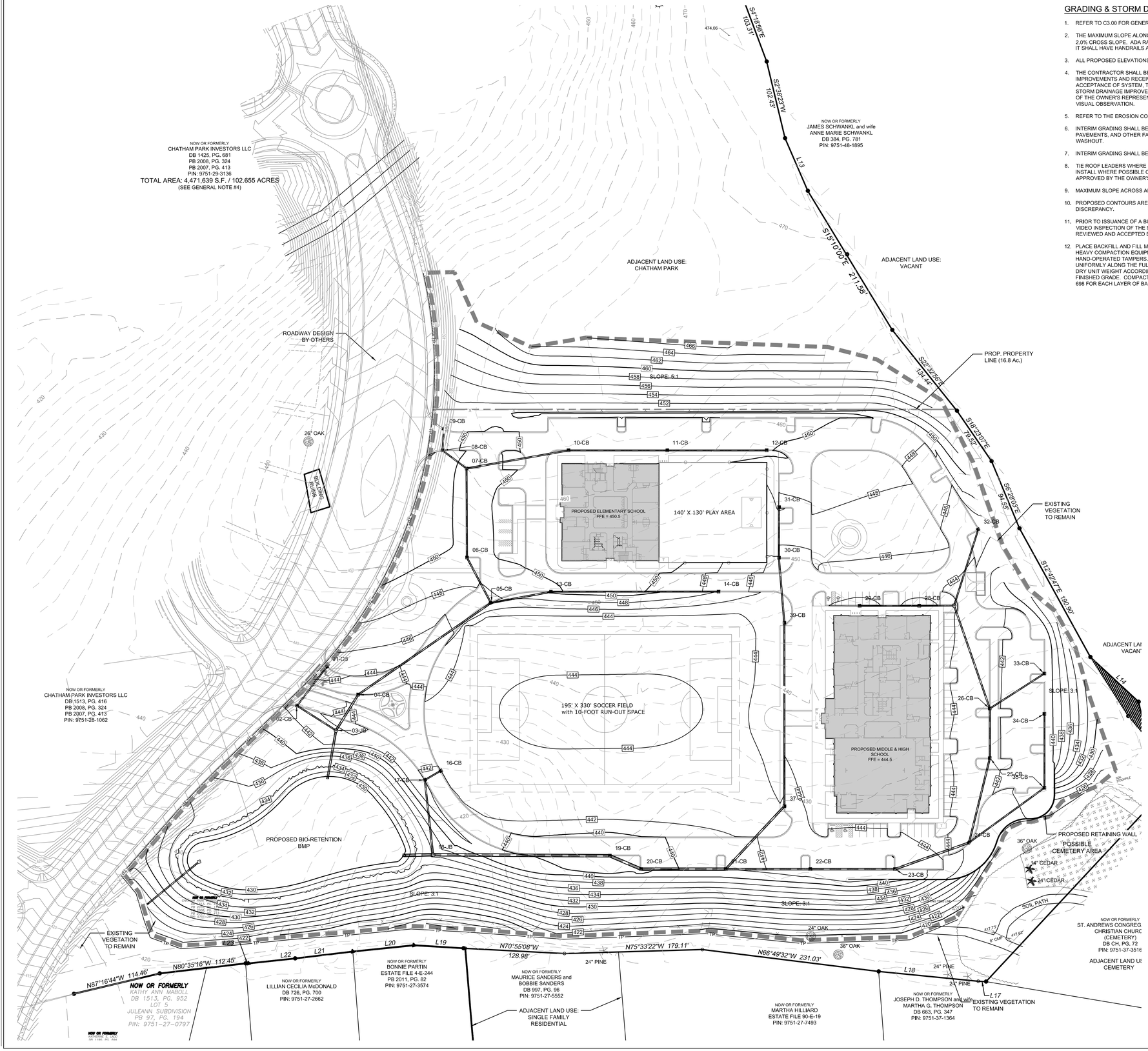

GRADING & STORM DRAINAGE NOTES:

1. REFER TO C3.00 FOR GENERAL NOTES.
2. THE MAXIMUM SLOPE ALONG ANY HANDICAP ACCESSIBLE PATHWAY SHALL NOT EXCEED 5.0% AND SHALL NOT EXCEED A 2.0% CROSS SLOPE. ADA RAMPS INDICATED ON PLANS SHALL BE A MAXIMUM OF 1/12 SLOPES. IF RAMP EXCEEDS 6' LENGTH IT SHALL HAVE HANDRAILS AND IF 5' LANDINGS NOT TO EXCEED 30' SPACING.
3. ALL PROPOSED ELEVATIONS SHOWN ARE EDGE OF PAVEMENT ELEVATIONS UNLESS OTHERWISE SPECIFIED.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT ALL NEWLY CONSTRUCTED STORM DRAINAGE IMPROVEMENTS AND RECEIVING STORM DRAINAGE SYSTEMS REMAIN CLEAN OF SEDIMENT AND DEBRIS. PRIOR TO OWNER ACCEPTANCE OF SYSTEM, THE CONTRACTOR SHALL COORDINATE AND PROVIDE A VISUAL OBSERVATION VIDEO OF ALL STORM DRAINAGE IMPROVEMENTS 4" AND LARGER. THE VISUAL OBSERVATION SHALL BE PERFORMED IN THE PRESENCE OF THE OWNER'S REPRESENTATIVE. THE CONTRACTOR SHALL PROVIDE TWO (2) DVD COPIES OF THE ENTIRE DRAINAGE VISUAL OBSERVATION.
5. REFER TO THE EROSION CONTROL DETAILS SHEET FOR THE SEQUENCE OF CONSTRUCTION
6. INTERIM GRADING SHALL BE PROVIDED THAT ENSURES THE PROTECTION OF STRUCTURES, UTILITIES, SIDEWALKS, PAVEMENTS, AND OTHER FACILITIES FROM DAMAGE CAUSED BY SETTLEMENT, LATERAL MOVEMENT, UNDERMINING, AND WASHOUT.
7. INTERIM GRADING SHALL BE PROVIDED TO DIRECT WATER AWAY FROM BUILDINGS AND PREVENT PONDING.
8. TIE ROOF LEADERS WHERE POSSIBLE TO UNDERGROUND STORM SYSTEM. CONTRACTOR TO FIELD VERIFY LOCATE AND INSTALL WHERE POSSIBLE OR AS SHOWN ON PLANS. WHERE ROOF LEADERS DAYLIGHT AT GRADE A SPLASH BLOCK APPROVED BY THE OWNER'S REPRESENTATIVE SHALL BE INSTALLED.
9. MAXIMUM SLOPE ACROSS ANY HANDICAPPED PARKING SPACE AND AISLE SHALL NOT EXCEED 2% IN ANY DIRECTION.
10. PROPOSED CONTOURS ARE APPROXIMATE. SPOT ELEVATIONS AND ROADWAY PROFILES SHALL BE USED IN CASE OF DISCREPANCY.
11. PRIOR TO ISSUANCE OF A BUILDING CERTIFICATE OF OCCUPANCY THE CONTRACTOR SHALL PROVIDE THE OWNER WITH A VIDEO INSPECTION OF THE STORM SEWER SYSTEM. (BOTH PUBLIC AND PRIVATE). THIS SUBMITTAL MAY NEED TO BE REVIEWED AND ACCEPTED BY THE LOCAL JURISDICTION PRIOR TO THE ISSUANCE OF THE BUILDING CO.
12. PLACE BACKFILL AND FILL MATERIALS IN LAYER NOT MORE THAN 8 INCHES IN LOOSE DEPTH FOR MATERIAL COMPACTED BY HEAVY COMPACTION EQUIPMENT, AND NOT MORE THAN 4 INCHES IN LOOSE DEPTH FOR MATERIAL COMPACTED BY HAND-OPERATED TAMPERS. PLACE BACKFILL AND FILL MATERIALS EVENLY ON ALL SIDES TO REQUIRED ELEVATIONS, AND UNIFORMLY ALONG THE FULL LENGTH OF EACH STRUCTURE. COMPACT SOIL TO NOT LESS THAN 95 PERCENT OF MAXIMUM DRY UNIT WEIGHT ACCORDING TO ASTM D 698 FOR EACH LAYER OF BACKFILL OR FILL MATERIAL UP TO TWO FEET OF FINISHED GRADE. COMPACT SOIL TO NOT LESS THAN 98 PERCENT OF MAXIMUM DRY UNIT WEIGHT ACCORDING TO ASTM D 698 FOR EACH LAYER OF BACKFILL OR FILL MATERIAL FOR THE FINAL TWO FEET.

PIPE TABLE

START STRUCTURE	END STRUCTURE	SIZE	LENGTH	MATERIAL
01-CB	02-CB	15"	63.84'	RCP
04-CB	03-JB	24"	54.75'	RCP
02-CB	03-JB	15"	59.96'	RCP
05-CB	04-CB	18"	209.71'	RCP
13-CB	05-CB	18"	79.32'	RCP
06-CB	05-CB	18"	66.51'	RCP
07-CB	06-CB	18"	115.86'	RCP
10-CB	07-CB	18"	134.59'	RCP
08-CB	07-CB	15"	39.05'	RCP
09-CB	08-CB	15"	28.15'	RCP
11-CB	10-CB	15"	128.41'	RCP
12-CB	11-CB	15"	129.10'	RCP
14-CB	13-CB	15"	217.79'	RCP
16-CB	17-CB	15"	24.30'	RCP
17-CB	18-JB	18"	97.61'	RCP
19-CB	18-JB	36"	229.76'	RCP
20-CB	19-CB	36"	44.16'	RCP
21-CB	20-CB	36"	109.81'	RCP
37-CB	21-CB	24"	111.83'	RCP
22-CB	21-CB	24"	110.01'	RCP
23-CB	22-CB	24"	110.00'	RCP
24-CB	23-CB	24"	102.15'	RCP
35-CB	24-CB	15"	121.32'	RCP
25-CB	24-CB	18"	113.11'	RCP
26-CB	25-CB	18"	64.53'	RCP
27-JB	26-CB	18"	141.59'	RCP
33-CB	26-CB	15"	84.34'	RCP
28-CB	27-JB	15"	45.27'	RCP
32-CB	27-JB	15"	103.92'	RCP
29-CB	28-CB	15"	77.47'	RCP
31-CB	30-CB	15"	65.77'	RCP
34-CB	35-CB	15"	96.00'	RCP
39-CB	37-CB	18"	238.41'	RCP
30-CB	39-CB	18"	84.83'	RCP
RI-01	FES-01	18"	86.15'	
03-JB	FES-02	24"	62.34'	RCP
18-JB	FES-03	36"	37.71'	RCP

GRADING LEGEND

- 200 — PROPOSED MAJOR ELEVATION
- PROPOSED MINOR ELEVATION
- 200 — EXISTING MAJOR ELEVATION
- EXISTING MINOR ELEVATION
- PROPOSED STORM DRAINAGE
- PROPOSED CATCH BASIN
- PROPOSED JUNCTION BOX
- PROPOSED AREA DRAIN
- 44.50 PROPOSED ELEVATION
- TC 44.50 / BC 44.00 TOP/BOTTOM OF CURB
- TW 46.00 / BW 44.00 TOP/BOTTOM OF WALL
- RIPRAP DISSIPATOR
- FLOW DIRECTION

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PRELIMINARY SITE PLAN

No.	Date	Description

0 30 60 120 NORTH

SCALE: 1"=60'

Title:

OVERALL GRADING PLAN

Project number: C15113 Sheet:
Date: 08.31.2016
Drawn by: DCB
Approved by: CJM

C5.00

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UTILITY NOTES:

1. REFER TO C3.00 FOR GENERAL NOTES.
2. UNLESS OTHERWISE NOTED, ALL MANHOLES SHALL BE PRE-CAST CONCRETE STRUCTURES.
3. THE CONTRACTOR SHALL COORDINATE THE CONSTRUCTION OF UNDERGROUND UTILITIES (WATER, SEWER, STORM, ELECTRICAL, GAS, OR OTHER) FOR THIS PROJECT WITH THE BUILDING PLANS. THE UTILITY CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR THE INSTALLATION OF ALL UTILITY SERVICES TO WITHIN FIVE (5) FEET OF THE BUILDING CONNECTION POINT.
4. THE CONTRACTOR SHALL COORDINATE WITH OTHER CONTRACTORS ON SITE AND UTILITY PROVIDERS DURING CONSTRUCTION TO ENSURE SMOOTH TRANSITION BETWEEN DISCIPLINES.
5. THE CONTRACTOR SHALL COORDINATE ALL PEDESTRIAN AND VEHICULAR INTERRUPTIONS WITH OWNER'S REPRESENTATIVE AT LEAST 72 HOURS PRIOR TO BEGINNING WORK.
6. THE CONTRACTOR SHALL NOT PROCEED WITH ANY WORK INSIDE THE PUBLIC RIGHT OF WAY PRIOR TO RECEIPT AND COMPLIANCE WITH ALL APPLICABLE NCDOT PERMITS. ADDITIONALLY, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL NECESSARY FLAGGERS AND TRAFFIC CONTROL DURING ALL WORK INSIDE THE PUBLIC RIGHTS OF WAY.
7. THE CONTRACTOR SHALL NOT RE-USE ANY FIRE HYDRANT REMOVED AS PART OF THIS PROJECT. ANY FIRE HYDRANT SHOWN TO BE REMOVED OR RELOCATED SHALL BE REPLACED WITH A NEW FIRE HYDRANT MEETING THE LOCAL JURISDICTIONAL REQUIREMENTS AND STANDARDS.
8. ALL EXISTING SUB-SURFACE UTILITIES IDENTIFIED ON THE CONSTRUCTION DOCUMENTS ARE SHOWN IN THEIR APPROXIMATE LOCATION BASED ON SURVEY INFORMATION GATHERED FROM FIELD INSPECTION AND/OR ANY OTHER APPLICABLE RECORD DRAWINGS WHICH MAY BE AVAILABLE. DEPTHS OF EXISTING UTILITIES SHOWN IN PROFILE VIEWS ARE BASED ON STANDARD ASSUMPTIONS. THE CONTRACTOR SHALL FIELD VERIFY THE EXACT LOCATION, DEPTH, SIZE AND MATERIAL OF ANY AND ALL SUB-SURFACE CONDITIONS REFERENCED IN THESE PLANS PRIOR TO ANY EXCAVATION OR CONSTRUCTION ACTIVITY. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER'S REPRESENTATIVE OF ANY DISCREPANCIES OR CONFLICTS.
9. ELEVATIONS AND UTILITIES ARE GIVEN TO THE EXTENT OF INFORMATION AVAILABLE. WHERE ELEVATIONS ARE NOT GIVEN AT POINTS OF EXISTING UTILITY CROSSINGS, SUCH ELEVATIONS SHALL BE DETERMINED BY THE CONTRACTOR AND REPORTED TO THE ENGINEER, WHEN UNKNOWN LINES ARE EXPOSED, THEIR LOCATIONS AND ELEVATIONS SHALL ALSO BE REPORTED TO THE ENGINEER.
10. UNDERGROUND UTILITIES SHOWN ON THIS PLAN SHALL BE INSTALLED PRIOR TO ANY CONSTRUCTION OF PARKING AREA, DRIVES CURB AND GUTTER OR CONCRETE WALKS / PADS. UTILITIES WHICH CANNOT BE INSTALLED PRIOR TO WHERE THEY CROSS SUCH IMPROVEMENTS SHALL BE PROVIDED WITH CONDUITS WHERE THEY CROSS SUCH IMPROVEMENTS FOR INSTALLATION AFTER SUCH IMPROVEMENTS ARE IN PLACE.

PROPOSED UTILITY SEPARATION:

WATER MAINS SHALL BE LAID AT LEAST 10 FEET HORIZONTALLY FROM EXISTING OR PROPOSED SEWERS, UNLESS LOCAL CONDITIONS OR BARRIERS PREVENT A 10-FOOT HORIZONTAL SEPARATION IN WHICH CASE;

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

10.B. THE WATER MAIN IS LAID IN THE SAME TRENCH AS THE SEWER WITH THE WATER MAIN LOCATED AT ONE SIDE OF A BENCH OF UNDISTURBED EARTH, AND WITH THE ELEVATION OF THE BOTTOM OF THE WATER MAIN AT LEAST 18 INCHES ABOVE THE TOP TO THE SEWER.

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

SEPARATION OF SANITARY SEWERS AND STORM SEWERS

1. A 24" VERTICAL SEPARATION SHALL BE PROVIDED BETWEEN STORM SEWER AND SANITARY SEWER LINES OR BOTH THE SANITARY AND THE STORM LINES SHALL BE CONSTRUCTED OF FERROUS MATERIALS.

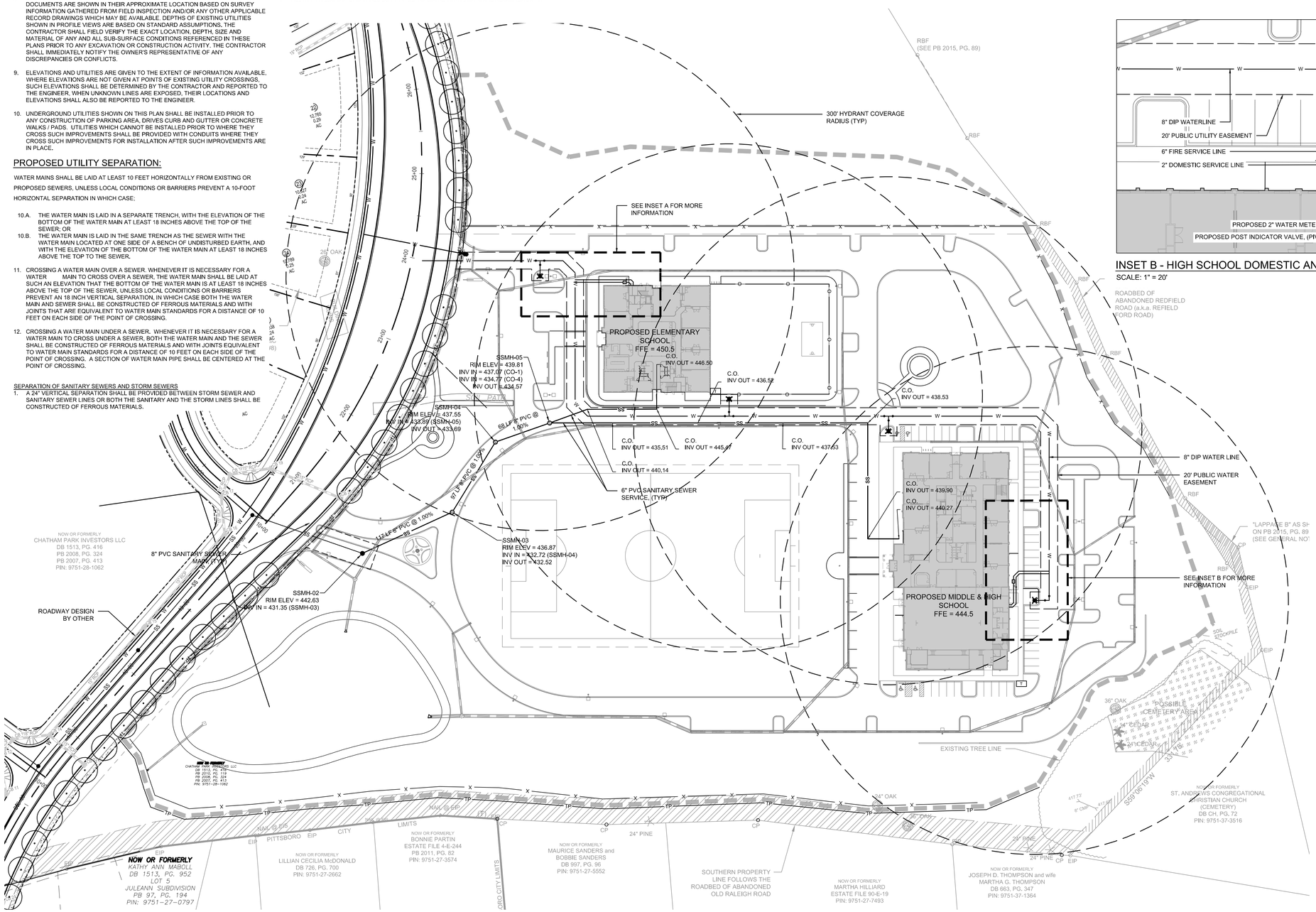
SEWER NOTES:

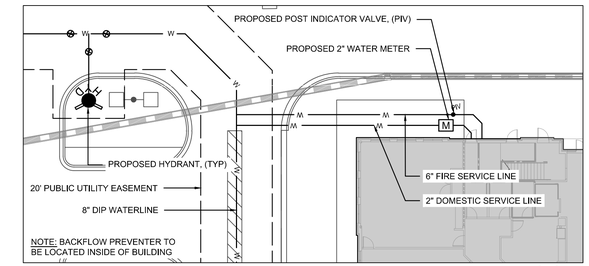
1. SANITARY SEWER CLEANOUTS LOCATED IN PAVEMENT AREAS SHALL BE HEAVY DUTY TRAFFIC BEARING CASTINGS.
2. UNLESS OTHERWISE NOTED, ALL SANITARY SEWER MANHOLES ARE 4' DIA.
3. MANHOLES LOCATED IN PAVEMENT, CONCRETE OR OTHER TRAFFIC AREAS SHALL BE SET AT GRADE. MANHOLES LOCATED IN OTHER AREAS (I.E. GRASS OR WOODED AREAS) SHALL HAVE THEIR RIMS RAISED SIX INCHES ABOVE THE SURROUNDING GRADE. MANHOLES SUBJECT TO POSSIBLE WATER INFILTRATION SHALL HAVE WATERTIGHT, BOLTED LIDS.
4. MINIMUM REQUIRED SLOPES FOR SEWER SERVICES:
   4" SEWER SERVICE - 2.00% SLOPE
   6" SEWER SERVICE - 1.00% SLOPE
   8" SEWER SERVICE - 0.50% SLOPE
5. UNLESS OTHERWISE NOTED, LOCATE SANITARY SERVICE CLEANOUTS AT ALL HORIZONTAL OR VERTICAL CHANGES IN DIRECTION, MAXIMUM SPACING BETWEEN CLEANOUTS SHALL BE 75 FEET.
6. SEWER LINES LESS THAN 3 FEET OF COVER SHALL BE CLASS 50 DUCTILE IRON PIPE. SEWER LINES WITH GREATER THAN 3 FEET OF COVER SHALL BE AS NOTED BELOW:
   4" SEWER SERVICE - SCH 80
   6" SEWER SERVICE - SCH 80
   8" SEWER SERVICE - SDR-35
7. SEWER LINES UNDER CONSTRUCTION SHALL BE PROTECTED FROM DIRT, DEBRIS OR OTHER CONTAMINANTS ENTERING THE NEW SYSTEM. A MECHANICAL PLUG SHALL BE UTILIZED BOTH IMMEDIATELY UPSTREAM OF THE NEW CONSTRUCTION AND AT THE FIRST MANHOLE DOWNSTREAM IN THE EXISTING SYSTEM. EXISTING STRUCTURES, PIPING AND APPURTENANCES SHALL BE PROTECTED FROM ANY INFLOW OF WATER, DIRT OR DEBRIS DUE TO NEW CONSTRUCTION CONNECTING TO OR IN THE VICINITY OF THE EXISTING SYSTEM. CONTRACTOR TO REMOVE DEBRIS AND PLUG PRIOR TO OCCUPANCY.
8. ALL MANHOLES COVERS SHALL BE PAINTED TO LOCAL JURISDICTIONAL REQUIREMENTS.

WATER NOTES:

AS INDICATED, ALL WATERLINES SHALL BE DUCTILE IRON PIPE MEETING THE REQUIREMENTS OF ANSI-AWWA C151 PRESSURE CLASS 350 OR SOFT COPPER TYPE K PIPE PER ASTM B88. IF PVC WATERLINE IS INDICATED ON THE PLANS, (12" AND SMALLER) SHALL MEET THE REQUIREMENTS OF AWWA C-900; CLASS 200.

1. ALL WATERLINES SHALL HAVE A MINIMUM OF 3.5 FEET OF COVER.
2. TESTING NOTES:
   PRESSURE:
   LEAKAGE SHALL NOT EXCEED THE MAXIMUM ALLOWABLE LEAKAGE SPECIFIED IN AWWA C-600. MINIMUM TEST PRESSURE SHALL BE 150 PSI FOR DOMESTIC AND 200 PSI FOR FIRE PROTECTION.
   BACTERIOLOGICAL:
   TWO SAMPLES FOR BACTERIOLOGICAL SAMPLING SHALL BE COLLECTED AT LEAST 24 HOURS APART. IF CONTAMINATION IS INDICATED, THEN THE DISINFECTION PROCEDURE AND TESTING SHALL BE REPEATED UNTIL SATISFACTORY RESULTS ARE OBTAINED.
3. THE CHLORINE IN HEAVILY CHLORINATED WATER FLUSHED FROM MAINS NEEDS TO BE NEUTRALIZED BEFORE DISCHARGE. CONTRACTORS SHALL NEUTRALIZE HEAVILY CHLORINATED WATER FLUSHED FROM MAINS PRIOR TO DISCHARGE OR TRANSPORT ALL HEAVILY CHLORINATED WATER OFFSITE FOR PROPER DISPOSAL.
4. PAINT VALVE COVERS, FIRE HYDRANTS AND OTHER WATER APPARATUS TO MEET THE LOCAL JURISDICTIONAL REQUIREMENTS.

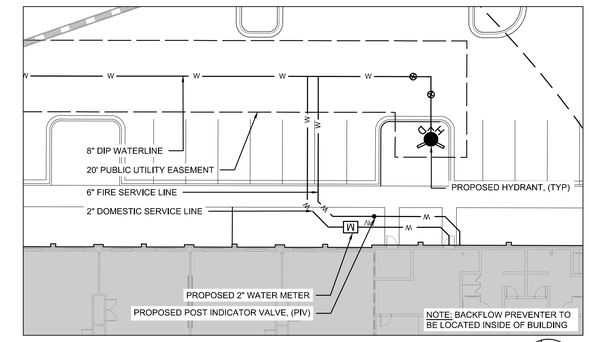




INSET A - ELEMENTARY SCHOOL DOMESTIC AND FIRE SERVICE

SCALE: 1" = 20'

NORTH



INSET B - HIGH SCHOOL DOMESTIC AND FIRE SERVICE

SCALE: 1" = 20'

NORTH

UTILITY LEGEND

- EXISTING WATER LINE
- PROPOSED WATER LINE
- EXISTING SANITARY SEWER LINE
- PROPOSED SANITARY SEWER LINE
- PROPOSED FIRE HYDRANT
- PROPOSED WATER VALVE
- EXISTING SANITARY SEWER MANHOLE
- PROPOSED SANITARY SEWER MANHOLE
- PROPOSED CLEANOUT
- PROPOSED FDC
- PROPOSED BACKFLOW METER
- PROPOSED POST INDICATOR VALVE (PIV)
- GREASE INTERCEPTOR
- 300' HYDRANT COVERAGE CIRCLE

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No.	Date	Description

0 30 60 120 NORTH

SCALE: 1"=60'

Title:

OVERALL UTILITIES PLAN

Project number: C15113 Sheet:
Date: 08.31.2016
Drawn by: MDS
Approved by: CJM

C6.00

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PERIMETER BUFFER CALCULATIONS	
BUFFER #1 BUFFER TYPE: B BUFFER LENGTH: 678'	
CANOPY TREES REQUIRED: 678' X 4 TREES/100LF = EVERGREEN TREES REQUIRED: 28 X 25% = CANOPY TREES PROPOSED: EVERGREEN TREES PROPOSED:	28 TREES 7 TREES 28 12
SHRUBS REQUIRED: 678' X 16 SHRUBS/100 LF = SHRUBS PROPOSED:	109 SHRUBS 109 SHRUBS

VEHICULAR USE AREA (VUA)
TOTAL VUA = 109,212 SF VUA REQUIREMENT*: NO PARKING SPACE TO BE LOCATED FURTHER THAN 60' FROM A CANOPY TREE
*VUA REQUIREMENTS PER CHATHAM PARK ADDITIONAL ELEMENTS SECTION 4.8

LANDSCAPE BUFFER REQUIREMENTS		
	TYPE "A"	TYPE "B"
CANOPY TREES	4 TREES PER 100 LF	4 TREES PER 100 LF
EVERGREEN (EG) UNDERSTORY TREES	14 EG UNDERSTORY TREES PER 100 LF	-
SHRUBS	10 SHRUBS / GRASSES PER 100 LF WHEN BUFFER IS WIDER THAN 30'	16 SHRUBS / GRASSES PER 100 LF
COMMENTS	50% OF CANOPY TREES MUST BE EVERGREEN AND ATTAIN A MATURE HEIGHT OF 60'; UNDESTORY TREES MUST REACH A MATURE HEIGHT OF 18'	25% OF CANOPY TREES MUST BE EVERGREEN AND ATTAIN A MATURE HEIGHT OF 40'; 75% OF SHRUBS / GRASSES SHALL BE EVERGREEN AND REACH A MATURE HEIGHT OF 3'

LANDSCAPE NOTES:

1. ALL TREES TO BE A MINIMUM OF 2" IN CALIPER AND MUST MEET THE AMERICAN STANDARD FOR NURSERY STOCK.
2. TREE PROTECTION NOTE: TREE PROTECTION FENCING MUST BE IN PLACE PRIOR TO ANY DEMOLITION, LAND DISTURBANCE OR ISSUANCE OF A GRADING PERMIT AND SHALL INCLUDE WARNING SIGNS POSTED IN BOTH ENGLISH AND SPANISH, AS FOLLOWS: "NO TRESPASSING/TREE PROTECTION AREA/PROHIBIDO ENTRAR / ZONA PROTECTORA PARA LOS ÁRBOLES."
3. PROTECTION OF EXISTING VEGETATION: AT THE START OF GRADING INVOLVING THE LOWERING OF EXISTING GRADE AROUND A TREE OR STRIPPING OF TOPSOIL, A CLEAN, SHARP, VERTICAL CUT SHALL BE MADE AT THE EDGE OF THE TREE SAVE AREA AT THE SAME TIME AS OTHER EROSION CONTROL MEASURES ARE INSTALLED. THE TREE PROTECTION FENCING SHALL BE INSTALLED ON THE SIDE OF THE CUT FARTHEST AWAY FROM THE TREE TRUNK AND SHALL REMAIN IN PLACE UNTIL ALL CONSTRUCTION IN THE VICINITY OF THE TREES IS COMPLETE. NO STORAGE OF MATERIALS, FILL, OR EQUIPMENT AND NO TRESPASSING SHALL BE ALLOWED WITHIN THE BOUNDARY OF THE PROTECTED AREA.
4. ROOT ZONE PROTECTION AREA: VARIES BASED ON LOCAL JURISDICTION HAVING AUTHORITY. CONTRACTOR SHALL COMPLY WITH LOCAL JURISDICTIONAL REQUIREMENTS. NO DISTURBANCE ALLOWED WITHIN THIS AREA, AREA MUST BE PROTECTED WITH BOTH TREE PROTECTION FENCING AND WARNING SIGNS.
5. SEED BED PREPARATION: ALL AREAS TO BE SEEDED ARE TO BE RECEIVE A MINIMUM OF 2" OF APPROVED TOPSOIL. ALL DEBRIS, ROCKS, ETC. LARGER THAN .5" ARE TO BE REMOVED. ALL LARGE CONCENTRATIONS OF GRAVEL & DEBRIS REGARDLESS OF SIZE ARE TO BE REMOVED PRIOR TO SEEDING OR PLANTING.
6. ALL PLANT BED AREAS ARE TO RECEIVE A MINIMUM OF 6" OF APPROVED TOPSOIL.
7. SOIL SHOULD BE TESTED AND AMENDED WITH LIME AND FERTILIZER FOR HARDWOOD TREES ACCORDING TO NCDA PROCEDURES. SCARIFY PLANT PIT WALLS. CONSULT LANDSCAPE ARCHITECT FOR ALTERNATE COMPLIANCE.
8. SHREDDED HARDWOOD MULCH 3" DEEP EXCEPT AT CROWN OF PLANT UNLESS OTHERWISE NOTED. FLARE AT CROWN SHOULD BE REVEALED. BACKFILL CONSISTS OF THOROUGHLY BROKEN UP NATIVE SOIL. TOTAL VOLUME OF BACKFILL SHOULD BE AMENDED WITH UP TO ONE THIRD PINE BARK MULCH. PIECES SHOULD BE NO LARGER THAN WHAT PASSES THROUGH A ONE INCH SCREEN. IF ADDITIONAL SOIL IS REQUIRED FOR BACKFILL DUE TO DETRIMENTAL SUBSOIL DRAINAGE CONDITIONS, USE SOIL SIMILAR TO EXISTING NATIVE SOIL. ADDITIONAL SOIL TO BE APPROVED BY LANDSCAPE ARCHITECT. MAXIMUM SAUCER HEIGHT IS 6 INCHES.
9. TOP OF ROOTBALL TO BE RAISED 2-3 INCHES ABOVE EXISTING GRADE.
10. FOR B&B PLANTS, NATURAL FIBER BURLAP SHOULD BE TURNED DOWN BY 1/3 TOTAL HEIGHT OF ROOT BALL. PLASTIC FIBER BURLAP AND WIRE BASKETS SHOULD BE REMOVED TO 2/3'S OF TOTAL HEIGHT OF ROOT BALL.
11. CONTRACTOR IS RESPONSIBLE FOR KEEPING THE TREE UPRIGHT AND PLUMB THROUGHOUT THE WARRANTY PERIOD. IF STABILIZATION IS NECESSARY SEE STAKING IN TREE DETAIL. ORANGE FLAGGING TAPE SHOULD BE ATTACHED TO SUPPORT WIRE. STAKING SHOULD BE REMOVED BY CONTRACTOR AT END OF ONE YEAR WARRANTY PERIOD OR AS DIRECTED BY GROUNDS MANAGEMENT.
12. USE STANDARD "GATOR" BAGS FOR WATERING TREES IN AREAS NOT UNDER IRRIGATION. INCORPORATE TERRA-SORB (OR EQUAL) AS PER MANUFACTURERS RECOMMENDATIONS, FOR AREAS NOT UNDER IRRIGATION.
13. USE "BIO-BARRIER" OR EQUIVALENT ACCORDING TO MANUFACTURER'S RECOMMENDATION FOR TREES THAT WILL BE PLANTED WITHIN 10' OF PAVEMENT
14. LANDSCAPING/C.O. STANDARDS NOTE: ALL LANDSCAPING MUST BE IN PLACE PRIOR TO REQUEST FOR A CERTIFICATE OF COMPLIANCE.
15. ALL HOTBOXES AND OTHER ON GROUND/FREE STANDING MECHANICAL EQUIPMENT SHALL BE SCREENED WITH VEGETATION PRIOR TO THE ISSUANCE OF A CERTIFICATE OF COMPLIANCE/OCCUPANCY.

PLANTING SCHEDULE

TREES	CODE	QTY	BOTANICAL NAME	COMMON NAME	CONT	CAL	SIZE	REMARKS
	AA	19	ACER RUBRUM `AUTUMN GLORY`	AUTUMN GLORY MAPLE	B & B	2.5"CAL	10` MIN.	BUFFER TREE
	BD	3	BETULA NIGRA `DURAHEAT`	DURAHEAT RIVER BIRCH	B & B	2.5"CAL	14-16`	MULTI-STEM - 3 CANE MIN.
	CA	21	CARPINUS CAROLINIANA	AMERICAN HORNBEAM	B & B	2.5"CAL	14` MIN.	
	CC	10	CARYA CORDIFORMIS	BITTERNUT HICKORY	B & B	1.5"CAL	10` MIN.	
	CV2	5	CHIONANTHUS VIRGINICUS	WHITE FRINGETREE	B & B		10` MIN.	MULTI-STEM, 3 CAN MIN.
	LC	3	LAGERSTROEMIA INDICA `CHEROKEE`	CHEROKEE CRAPE MYRTLE	B & B		8` MIN	MULTI-STEM; MIN 3 STALKS
	LT	24	LIRIODENDRON TULIPIFERA	TULIP POPLAR	B & B	2.5"CAL	10` MIN.	
	MG	12	MAGNOLIA GRANDIFLORA	SOUTHERN MAGNOLIA	B & B	2"CAL	6` MIN.	BUFFER TREE
	NS	20	NYSSA SYLVATICA	BLACK GUM	B & B	2.5"CAL	12`-14`	VUA TREE
	PP	49	PINUS PALUSTRIS	LONGLEAF PINE	B & B	1.5"CAL	10` MIN.	
	PT	46	PINUS TAEDA	LOBLOLLY PINE	B & B	2.5"CAL	14` MIN.	
	QA	10	QUERCUS ALBA	WHITE OAK	B & B	1.5"CAL	10` MIN.	
	QP	20	QUERCUS PHELLOS	WILLOW OAK	B & B	2.5"CAL	10` MIN.	VUA TREE
	TA	6	TAXODIUM DISTICHUM `AUTUMN GOLD`	AUTUMN GOLD BALD CYPRESS	B & B	3" MIN	14` MIN.	
	UP	9	ULMUS AMERICANA `PRINCETON`	AMERICAN ELM	B & B	2.5"CAL	10` MIN.	VUA TREE

SHRUBS	CODE	QTY	BOTANICAL NAME	COMMON NAME	CONT.	HGT.		REMARKS
	AE	124	AZALEA ENCORE `AUTUMN SANGRIA` TM	ENCORE AZALEA	3 GAL	18" MIN.		FOUNDATION
	AL	98	ABELIA X GRANDIFLORA `LUCKY LOTS`	LUCKY LOTS ABELIA	3 GAL	18" MIN.		FOUNDATION
	EA	66	EUONYMUS JAPONICUS `AUREO-MARGINATUS`	GOLDEN EUONYMUS	3 GAL	18" MIN.		FOUNDATION
	IC	107	ILEX CRENATA `GREEN LUSTRE`	GREEN LUSTER JAPANESE HOLLY	3 GAL	18" MIN.		FOUNDATION
	IG	109	ILEX GLABRA	INKBERRY HOLLY	3 GAL	18" MIN.		BUFFER
	IG2	30	ILEX GLABRA	INKBERRY HOLLY	3 GAL	2` MIN.		VUA SCREENING
	NG	133	NANDINA DOMESTICA `GULF STREAM` TM	HEAVENLY BAMBOO	3 GAL	18" MIN.		FOUNDATION
	SG	114	SPIRAEA JAPONICA `GOLDMOUND`	SPIREA	3 GAL	18" MIN.		FOUNDATION

GROUND COVERS	CODE	QTY	BOTANICAL NAME	COMMON NAME	CONT	SF		REMARKS
	LE	1,393	LIRIOPE MUSCARI `EMERALD GODDESS`	LIRIOPE	1 GAL			
SOD/SEED	CODE	QTY	BOTANICAL NAME	COMMON NAME	CONT	SF		REMARKS
	CD	158,136 SF	CYNODON DACTYLON	BERMUDA GRASS	SEED			IRRIGATED LAWN; OWNER TO VERIFY SPECIES
	CD2	8,874 SF	CYNODON DACTYLON	BERMUDA GRASS	SOD			OWNER TO VERIFY SPECIES
	SM	98,137 SF	SLOPE SEED MIX	SLOPE	SEED			PRAIRIE MOON - PDQ SEED MIX 11.5 LBS / AC
	WM	128,466 SF	WILDFLOWER MIX	WILDFLOWER MIX	SEED			

BIO-RETENTION PLANTS

BIO-RETENTION	CODE	QTY	BOTANICAL NAME	COMMON NAME	CONT.	HGT.		REMARKS
	AR	52	ARONIA ARBUTIFOLIA	RED CHOKEBERRY	3 GAL			
	CB	146	CALLICARPA AMERICANA	AMERICAN BEAUTYBERRY	3 GAL			
	CC 2	213	CAREX CRINITA	FRINGED SEDGE	1 GAL			
	HP	111	HYPERICUM PROLIFICUM	BROOMBRUSH	3 GAL			
	JB	286	JUNCUS INFLEXUS `BLUE ARROW`	BLUE ARROW JUNCUS	3 GAL			
	MC	74	MYRICA CERIFERA	WAX MYRTLE	5 GAL			FULL
	PS	379	PANICUM VIRGATUM `SHENANDOAH`	SWITCH GRASS	3 GAL			
	VM	210	VIBURNUM DENTATUM `BLUE MUFFIN`	SOUTHERN ARROWWOOD	3 GAL			
BIO-RETENTION	CODE	QTY	BOTANICAL NAME	COMMON NAME	CONT			REMARKS
	AT	1,848	ASTER TENUIFOLIUS	SALTMARSH ASTER	3.5" POT			
	EP	5,749	EUTROCHIUM PURPUREUM	SWEET JOE PYE WEED	3.5" POT			
	RH	4,162	RUDBECKIA HIRTA	BLACK-EYED SUSAN	3.5" POT			

STEWART
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PROJECT #: C15113

Client:

Thales Academy
DEVELOPING CLASSICAL THINKERS

THALES ACADEMY
4641 PARAGON PARK RD.
RALEIGH, NC 27616

Project:

THALES ACADEMY CHATHAM PARK

Vicinity map:

Seal:

NORTH CAROLINA LICENSED LANDSCAPE ARCHITECT 1886 CHRISTOPHER J. WILLEY

PRELIMINARY - DO NOT USE FOR CONSTRUCTION

Issued for:

PRELIMINARY SITE PLAN

No.	Date	Description

0 30 60 120

SCALE: 1"=60'

NORTH

Title:

LANDSCAPING NOTES AND SCHEDULE

Project number: C15113 Sheet:
Date: 08.31.2016
Drawn by: MDS
Approved by: CJM

L0.00

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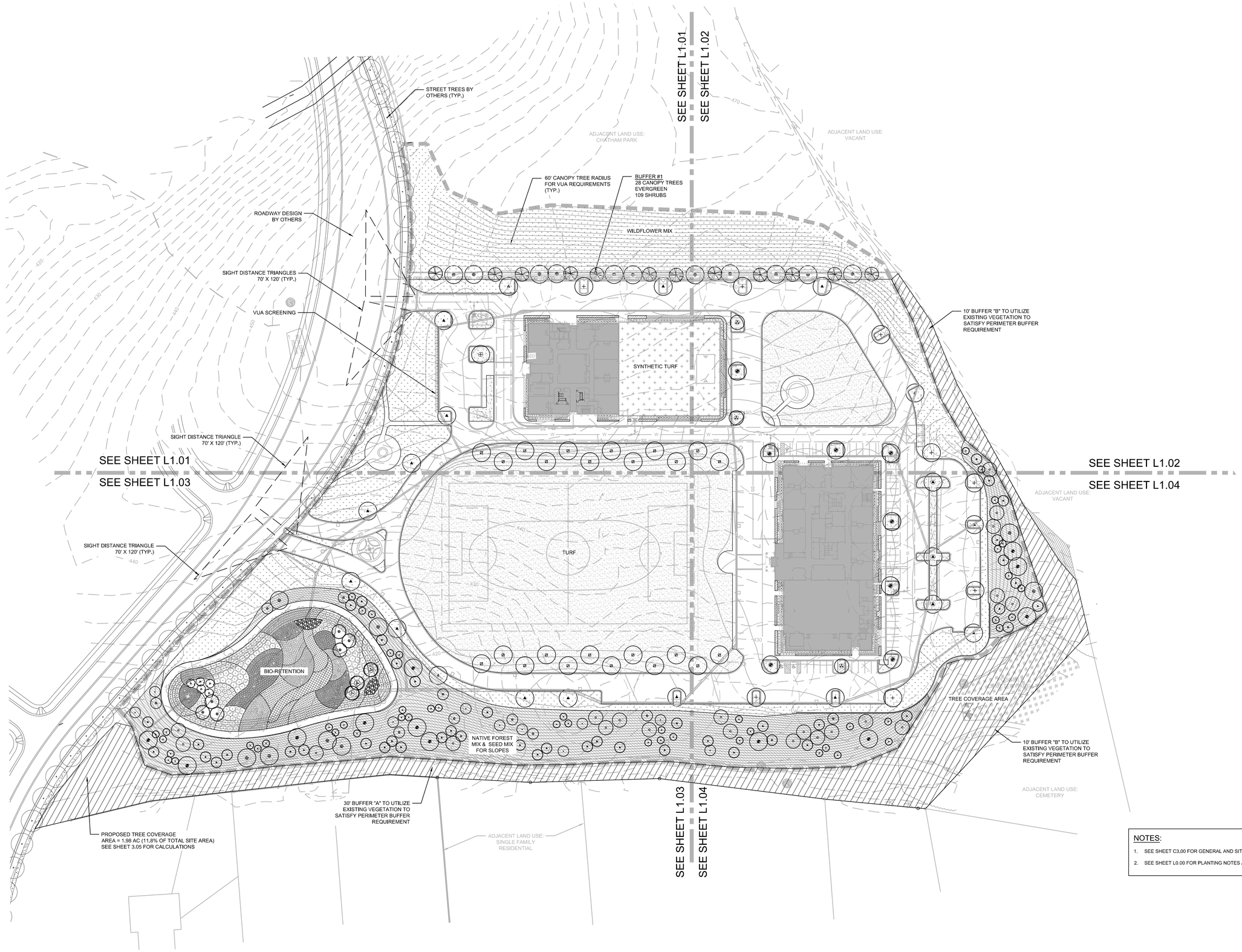

NOTES:

1. SEE SHEET C3.00 FOR GENERAL AND SITE NOTES.
2. SEE SHEET L0.00 FOR PLANTING NOTES AND SCHEDULE

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Project:

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Vicinity map:

Seal:

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Issued for:

PRELIMINARY SITE PLAN

No.	Date	Description

0 30 60 120

SCALE: 1"=60'

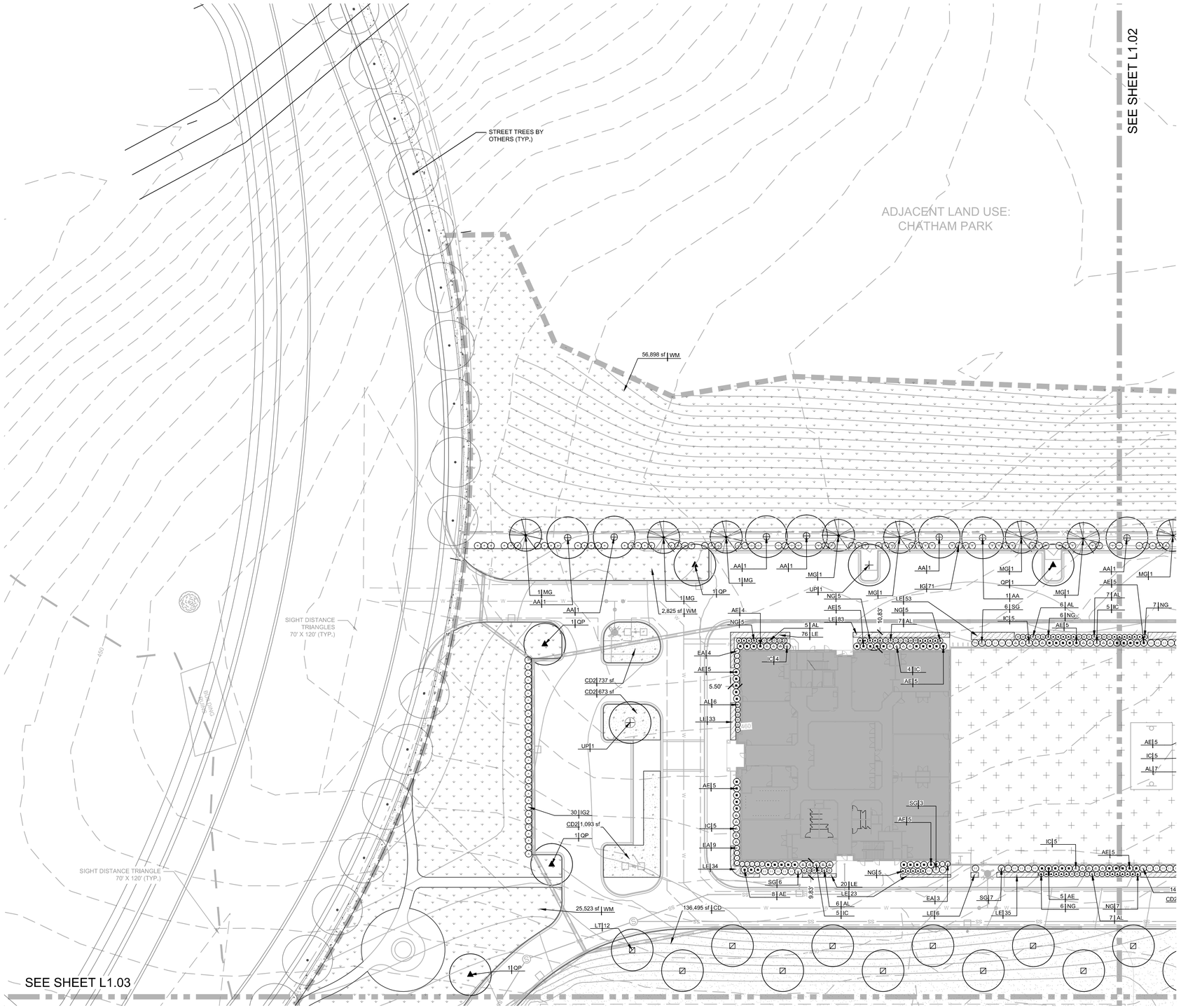
NORTH

Title:

OVERALL LANDSCAPE PLAN

Project number: C15113
Date: 08.31.2016
Drawn by: MDS
Approved by: CJM

Sheet: L1.00



PLANT LEGEND

TREES	CODE	BOTANICAL NAME	COMMON NAME
	AA	ACER RUBRUM `AUTUMN GLORY`	AUTUMN GLORY MAPLE
	BD	BETULA NIGRA `DURAHEAT`	DURAHEAT RIVER BIRCH
	CA	CARPINUS CAROLINIANA	AMERICAN HORNBEAM
	CC	CARYA CORDIFORMIS	BITTERNUT HICKORY
	CV2	CHIONANTHUS VIRGINICUS	WHITE FRINGETREE
	LC	LAGERSTROEMIA INDICA `CHEROKEE`	CHEROKEE CRAPE MYRTLE
	LT	LIRIODENDRON TULIPIFERA	TULIP POPLAR
	MG	MAGNOLIA GRANDIFLORA	SOUTHERN MAGNOLIA
	NS	NYSSA SYLVATICA	BLACK GUM
	PP	PINUS PALUSTRIS	LONGLEAF PINE
	PT	PINUS TAEDA	LOBLOLLY PINE
	QA	QUERCUS ALBA	WHITE OAK
	QP	QUERCUS PHELLOS	WILLOW OAK
	TA	TAXODIUM DISTICHUM `AUTUMN GOLD`	AUTUMN GOLD BALD CYPRESS
	UP	ULMUS AMERICANA `PRINCETON`	AMERICAN ELM
SHRUBS	**CODE**	**BOTANICAL NAME**	**COMMON NAME**
	AE	AZALEA ENCORE `AUTUMN SANGRIA` TM	ENCORE AZALEA
	AL	ABELIA X GRANDIFLORA `LUCKY LOTS`	LUCKY LOTS ABELIA
	EA	EUONYMUS JAPONICUS `AUREO-MARGINATUS`	GOLDEN EUONYMUS
	IC	ILEX CRENATA `GREEN LUSTRE`	GREEN LUSTER JAPANESE HOLLY
	IG	ILEX GLABRA	INKBERRY HOLLY
	IG2	ILEX GLABRA	INKBERRY HOLLY
	NG	NANDINA DOMESTICA `GULF STREAM` TM	HEAVENLY BAMBOO
	SG	SPIRAEA JAPONICA `GOLDMOUND`	SPIREA

SOD/SEED	CODE	BOTANICAL NAME	COMMON NAME
	CD	CYNODON DACTYLON	BERMUDA GRASS
	CD2	CYNODON DACTYLON	BERMUDA GRASS
	SM	SLOPE SEED MIX	SLOPE
	WM	WILDFLOWER MIX	WILDFLOWER MIX

NOTES:

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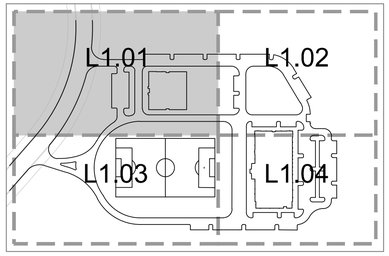

KEP PLAN
SCALE: N.T.S

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Project:

THALES ACADEMY CHATHAM PARK

Vicinity map:

Seal:

NORTH CAROLINA REGISTERED LANDSCAPE ARCHITECT 1886 CHRISTOPHER J. MILLER

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Issued for:

PRELIMINARY SITE PLAN

No.	Date	Description

0 15 30 60 NORTH

SCALE: 1"=30'

Title:

LANDSCAPE PLAN ENLARGEMENT (NORTHWEST)

Project number: C15113 Sheet:
Date: 08.31.2016
Drawn by: MDS
Approved by: CJM

L1.01

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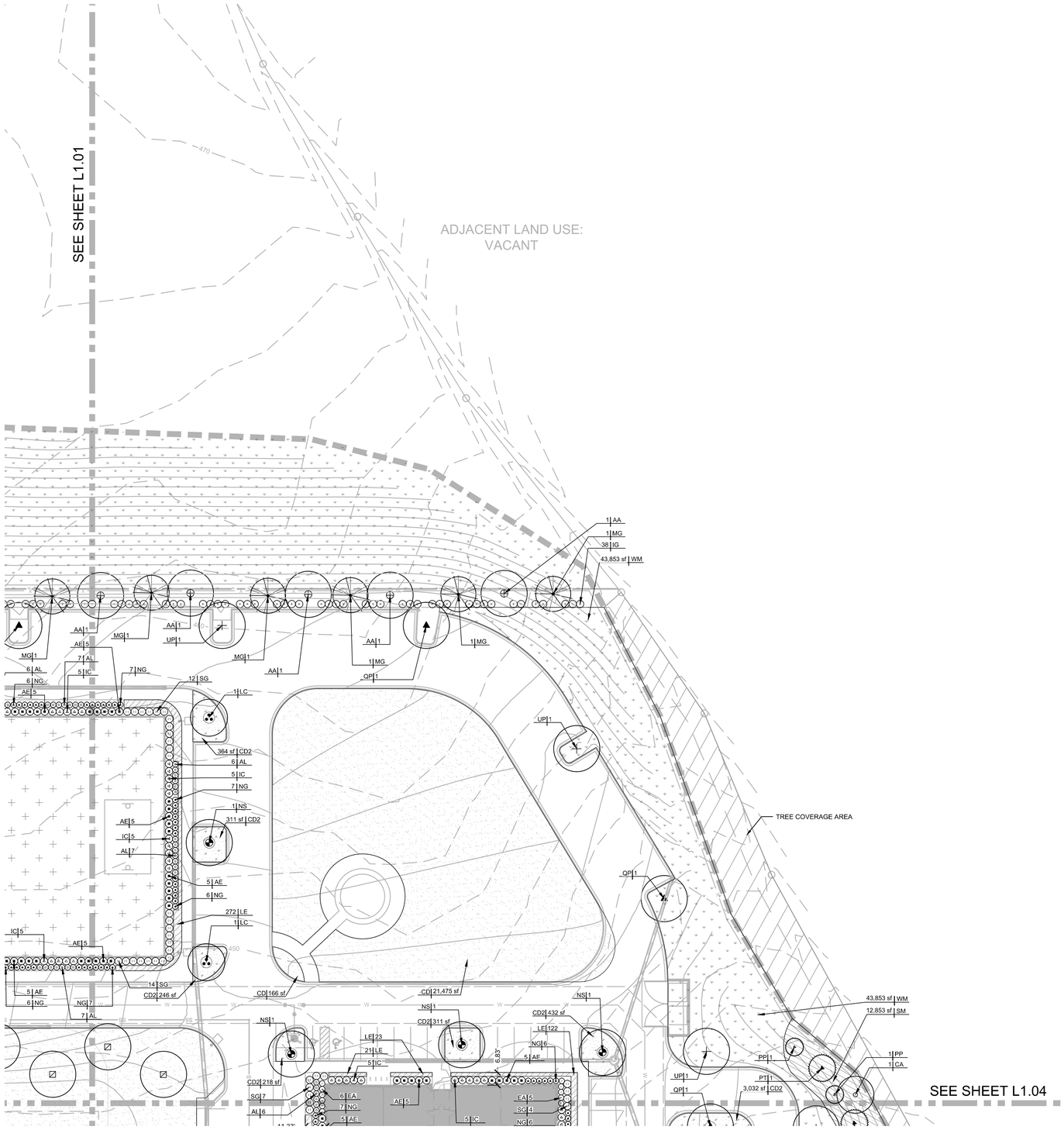

PLANT LEGEND

TREES	CODE	BOTANICAL NAME	COMMON NAME
	AA	ACER RUBRUM `AUTUMN GLORY`	AUTUMN GLORY MAPLE
	BD	BETULA NIGRA `DURAHEAT`	DURAHEAT RIVER BIRCH
	CA	CARPINUS CAROLINIANA	AMERICAN HORNBEAM
	CC	CARYA CORDIFORMIS	BITTERNUT HICKORY
	CV2	CHIONANTHUS VIRGINICUS	WHITE FRINGETREE
	LC	LAGERSTROEMIA INDICA `CHEROKEE`	CHEROKEE CRAPE MYRTLE
	LT	LIRIODENDRON TULIPIFERA	TULIP POPLAR
	MG	MAGNOLIA GRANDIFLORA	SOUTHERN MAGNOLIA
	NS	NYSSA SYLVATICA	BLACK GUM
	PP	PINUS PALUSTRIS	LONGLEAF PINE
	PT	PINUS TAEDA	LOBLOLLY PINE
	QA	QUERCUS ALBA	WHITE OAK
	QP	QUERCUS PHELLOS	WILLOW OAK
	TA	TAXODIUM DISTICHUM `AUTUMN GOLD`	AUTUMN GOLD BALD CYPRESS
	UP	ULMUS AMERICANA `PRINCETON`	AMERICAN ELM

SHRUBS	CODE	BOTANICAL NAME	COMMON NAME
	AE	AZALEA ENCORE `AUTUMN SANGRIA` TM	ENCORE AZALEA
	AL	ABELIA X GRANDIFLORA `LUCKY LOTS`	LUCKY LOTS ABELIA
	EA	EUONYMUS JAPONICUS `AUREO-MARGINATUS`	GOLDEN EUONYMUS
	IC	ILEX CRENATA `GREEN LUSTRE`	GREEN LUSTER JAPANESE HOLLY
	IG	ILEX GLABRA	INKBERRY HOLLY
	IG2	ILEX GLABRA	INKBERRY HOLLY
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	SG	SPIRAEA JAPONICA `GOLDMOUND`	SPIREA

SOD/SEED	CODE	BOTANICAL NAME	COMMON NAME
	CD	CYNODON DACTYLON	BERMUDA GRASS
	CD2	CYNODON DACTYLON	BERMUDA GRASS
	SM	SLOPE SEED MIX	SLOPE
	WM	WILDFLOWER MIX	WILDFLOWER MIX

NOTES:

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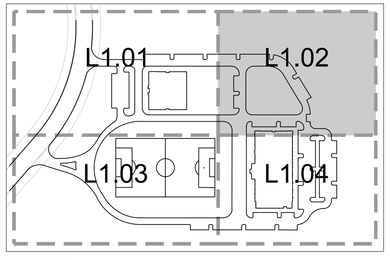

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SCALE: N.T.S

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PROJECT #: C15113

Client:

Thales Academy
DEVELOPING CLASSICAL THINKERS

THALES ACADEMY
4641 PARAGON PARK RD.
RALEIGH, NC 27616

Project:

THALES ACADEMY CHATHAM PARK

Vicinity map:

Seal:

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FOR CONSTRUCTION

Issued for:

PRELIMINARY
SITE PLAN

No.	Date	Description

0 15 30 60
SCALE: 1"=30'
NORTH

Title:

LANDSCAPE PLAN
ENLARGEMENT
(NORTHEAST)

Project number: C15113
Date: 08.31.2016
Drawn by: MDS
Approved by: CJM
Sheet: L1.02

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BIO-RETENTION PLANT LEGEND

BIO-RETENTION	CODE	BOTANICAL NAME	COMMON NAME
	AR	ARONIA ARBUTIFOLIA	RED CHOKEBERRY
	CB	CALLICARPA AMERICANA	AMERICAN BEAUTYBERRY
	CC 2	CAREX CRINITA	FRINGED SEDGE
	HP	HYPERICUM PROLIFICUM	BROOMBRUSH
	JB	JUNCUS INFLEXUS 'BLUE ARROW'	BLUE ARROW JUNCUS
	MC	MYRICA CERIFERA	WAX MYRTLE
	PS	PANICUM VIRGATUM 'SHENANDOAH'	SWITCH GRASS
	VM	VIBURNUM DENTATUM 'BLUE MUFFIN'	SOUTHERN ARROWWOOD

BIO-RETENTION	CODE	BOTANICAL NAME	COMMON NAME
	AT	ASTER TENUIFOLIUS	SALTMARSH ASTER
	EP	EUTROCHIUM PURPUREUM	SWEET JOE PYE WEED
	RH	RUDBECKIA HIRTA	BLACK-EYED SUSAN

NOTES:

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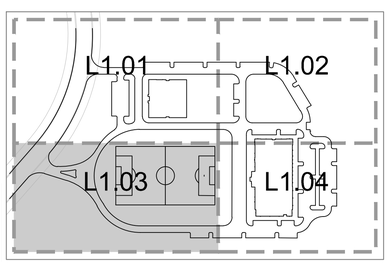

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SCALE: N.T.S

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THALES ACADEMY
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RALEIGH, NC 27616

Project:

THALES ACADEMY CHATHAM PARK

Vicinity map:

NORTH

Seal:

NORTH CAROLINA REGISTERED LANDSCAPE ARCHITECT 1886 CHRISTOPHER J. MILLER

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FOR CONSTRUCTION

Issued for:

PRELIMINARY
SITE PLAN

No.	Date	Description

0 15 30 60
SCALE: 1"=30'
NORTH

Title:

LANDSCAPE PLAN
ENLARGEMENT
(SOUTHWEST)

Project number: C15113 Sheet:
Date: 08.31.2016
Drawn by: MDS
Approved by: CJM

L1.03

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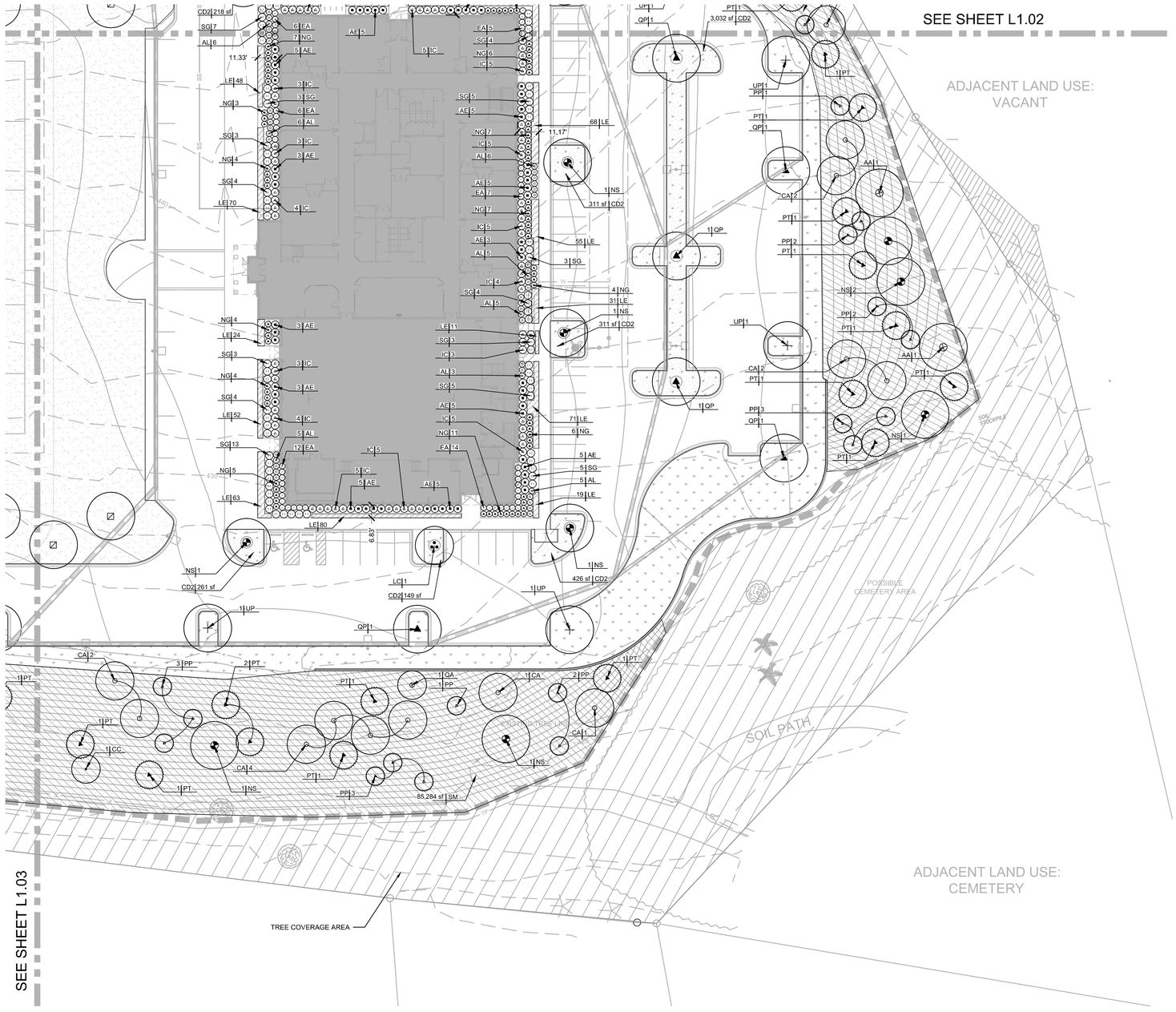

PLANT LEGEND

TREES	CODE	BOTANICAL NAME	COMMON NAME
	AA	ACER RUBRUM `AUTUMN GLORY`	AUTUMN GLORY MAPLE
	BD	BETULA NIGRA `DURAHEAT`	DURAHEAT RIVER BIRCH
	CA	CARPINUS CAROLINIANA	AMERICAN HORNBEAM
	CC	CARYA CORDIFORMIS	BITTERNUT HICKORY
	CV2	CHIONANTHUS VIRGINICUS	WHITE FRINGETREE
	LC	LAGERSTROEMIA INDICA `CHEROKEE`	CHEROKEE CRAPE MYRTLE
	LT	LIRIODENDRON TULIPIFERA	TULIP POPLAR
	MG	MAGNOLIA GRANDIFLORA	SOUTHERN MAGNOLIA
	NS	NYSSA SYLVATICA	BLACK GUM
	PP	PINUS PALUSTRIS	LONGLEAF PINE
	PT	PINUS TAEDA	LOBLOLLY PINE
	QA	QUERCUS ALBA	WHITE OAK
	QP	QUERCUS PHELLOS	WILLOW OAK
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	UP	ULMUS AMERICANA `PRINCETON`	AMERICAN ELM

SHRUBS	CODE	BOTANICAL NAME	COMMON NAME
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	AL	ABELIA X GRANDIFLORA `LUCKY LOTS`	LUCKY LOTS ABELIA
	EA	EUONYMUS JAPONICUS `AUREO-MARGINATUS`	GOLDEN EUONYMUS
	IC	ILEX CRENATA `GREEN LUSTRE`	GREEN LUSTER JAPANESE HOLLY
	IG	ILEX GLABRA	INKBERRY HOLLY
	IG2	ILEX GLABRA	INKBERRY HOLLY
	NG	NANDINA DOMESTICA `GULF STREAM` TM	HEAVENLY BAMBOO
	SG	SPIRAEA JAPONICA `GOLDMOUND`	SPIREA

SOD/SEED	CODE	BOTANICAL NAME	COMMON NAME
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	CD2	CYNODON DACTYLON	BERMUDA GRASS
	SM	SLOPE SEED MIX	SLOPE
	WM	WILDFLOWER MIX	WILDFLOWER MIX

NOTES:

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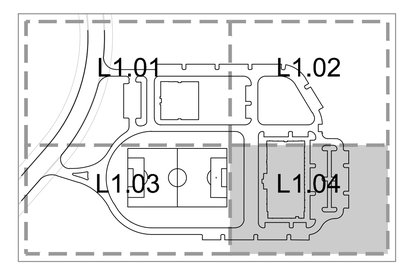
2. SEE SHEET L0.00 FOR PLANTING NOTES AND SCHEDULE



KEP PLAN
SCALE: N.T.S

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Project:

THALES ACADEMY CHATHAM PARK

Vicinity map:

Seal:

NORTH CAROLINA REGISTERED LANDSCAPE ARCHITECT 1886 CHRISTOPHER J. MILLER

PRELIMINARY - DO NOT USE
FOR CONSTRUCTION

Issued for:

PRELIMINARY
SITE PLAN

No.	Date	Description

0 15 30 60 NORTH

SCALE: 1"=30'

Title:

LANDSCAPE PLAN
ENLARGEMENT
(SOUTHEAST)

Project number: C15113 Sheet:
Date: 08.31.2016
Drawn by: MDS
Approved by: CJM

L1.04

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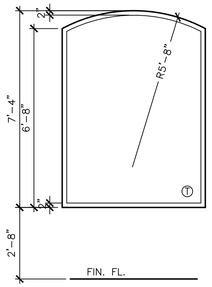

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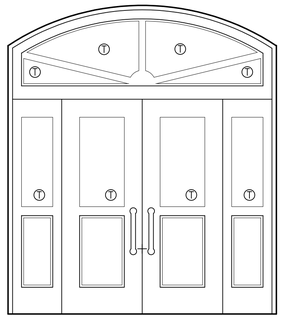
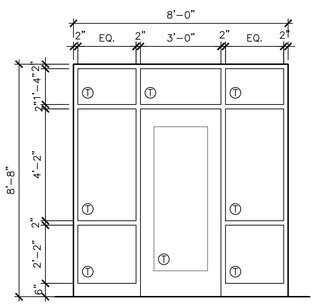


(B) CUSTOM WOOD ENTRANCE:
AFRICAN MAHOGANY
STAINED/ SEALED

(T) TEMPERED GLASS



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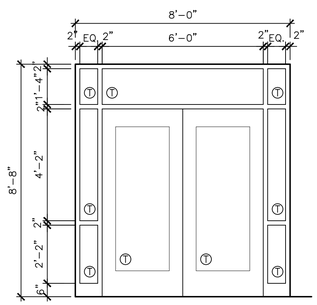
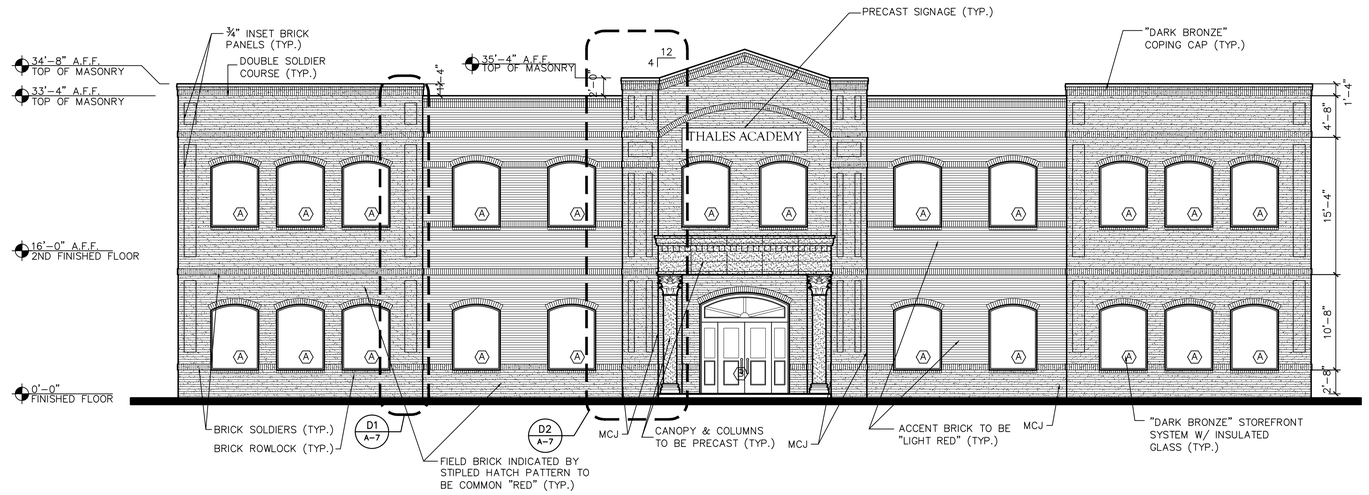
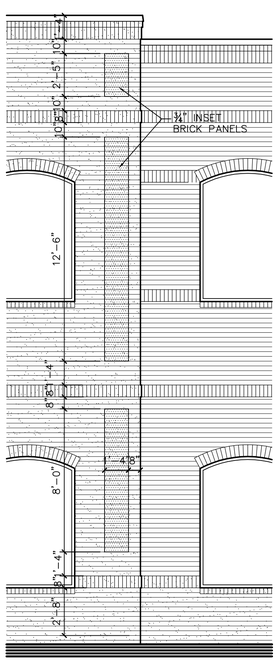


(D)

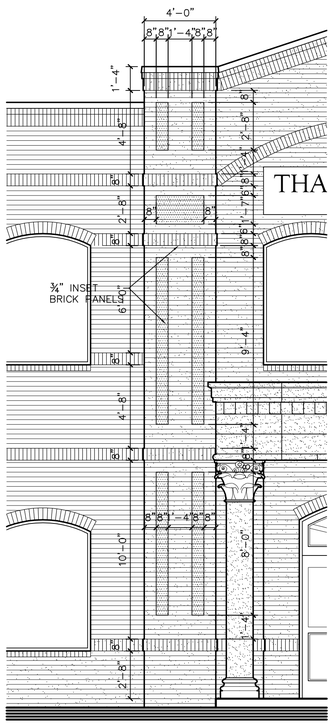
B1 / A-7 STOREFRONT ELEVATIONS
SCALE: 3/8" = 1'-0"



B3 / A-7 WEST (FRONT) EXTERIOR ELEVATION
SCALE: 1/8" = 1'-0"



D1 / A-7 ELEVATION DETAIL
SCALE: 1/4" = 1'-0"



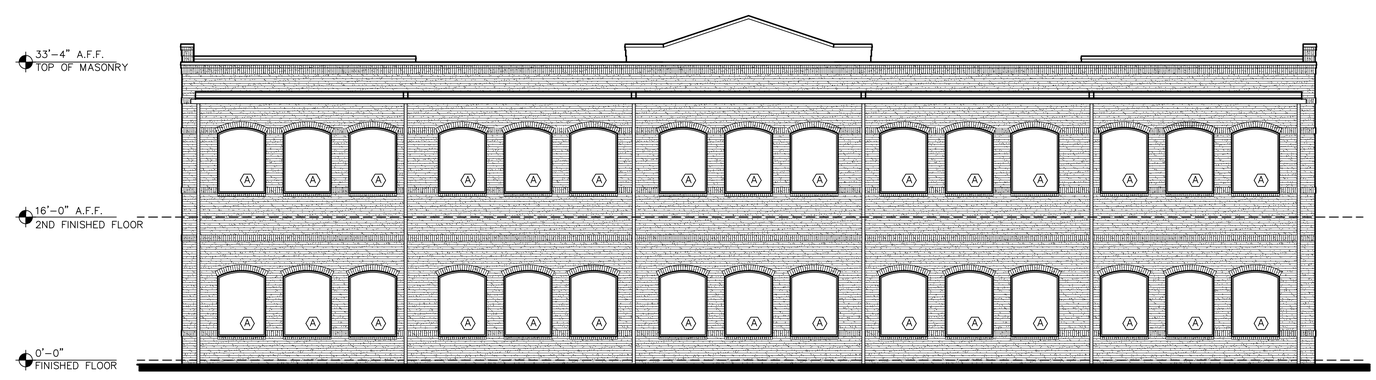
D2 / A-7 ENTRANCE ELEVATION DETAIL
SCALE: 1/4" = 1'-0"

MATERIAL INDEX:

- FIELD BRICK: PINE HALL "OLD HAMPTON" O/S TUMBLE BRICK
- ACCENT BRICK: WESTHAMPTON O/S BRICK
- PRE-CAST CONCRETE
- STOREFRONT: DARK BRONZE ALUMINUM
- COPING CAP: DARK BRONZE ALUMINUM
- MAIN ROOF: WHITE MEMBRANE

PROJECT INFORMATION:

-BUILDING OCCPANCY:	EDUCATIONAL
-CONSTRUCTION TYPE:	II-B
-1ST FLOOR:	15,996 SF
-2ND FLOOR:	15,996 SF
TOTAL:	31,992 SF



NOTE:
SEE ELEVATION B3/A-7 FOR NOTING OF TYPICAL/ SIMILAR CONDITIONS.

D3 / A-7 EAST (REAR) EXTERIOR ELEVATION
SCALE: 1/8" = 1'-0"

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PROJECT # C15113

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Project:

THALES ACADEMY CHATHAM PARK

CONSULTANT:

BAXTER ARMISTEAD
ARCHITECTURE, PC
3206 Heritage Trade Drive, Suite 114
Wake Forest, North Carolina 27587
Phone: (919) 554-1505
Fax: (919) 554-1110

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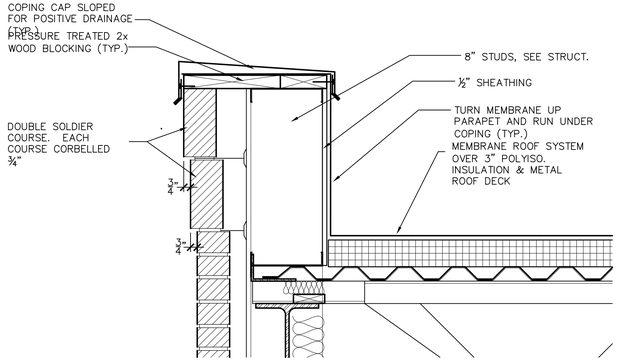
No.	Date	Description

Title:

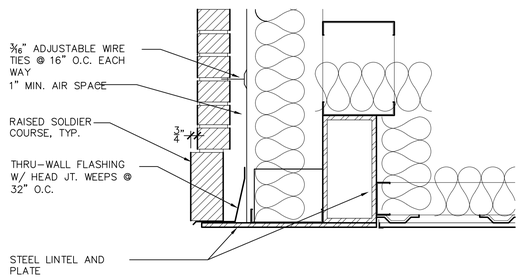
ELEMENTARY SCHOOL ELEVATIONS

Project number: 15054 Sheet:
Date: 08.31.2016
Drawn by: JA
Approved by: JA

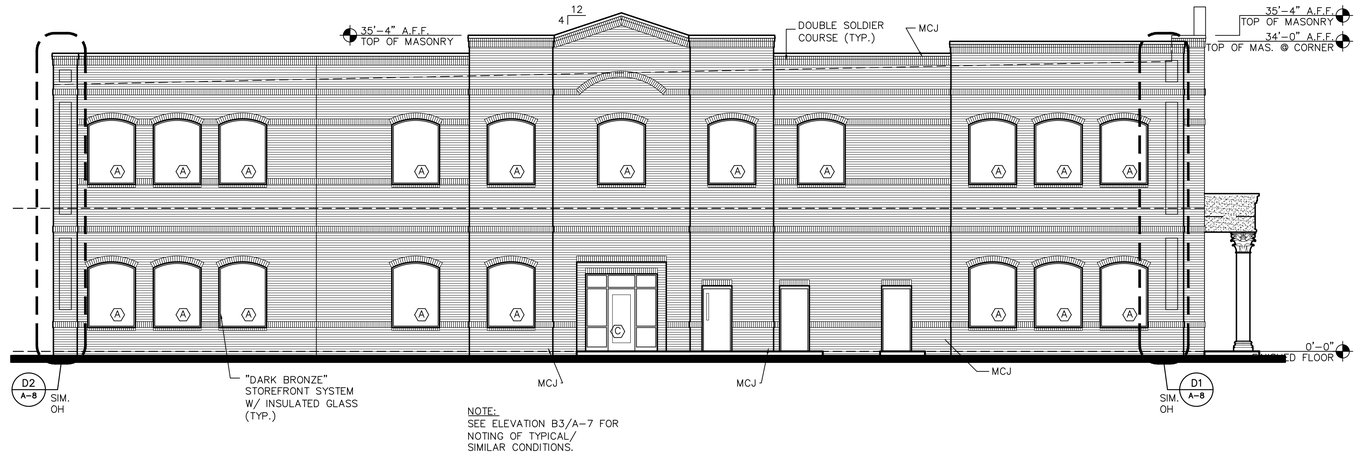
A-3.01



A1 / A-8 TYPICAL PARAPET DETAIL
SCALE: 1 1/2" = 1'-0"

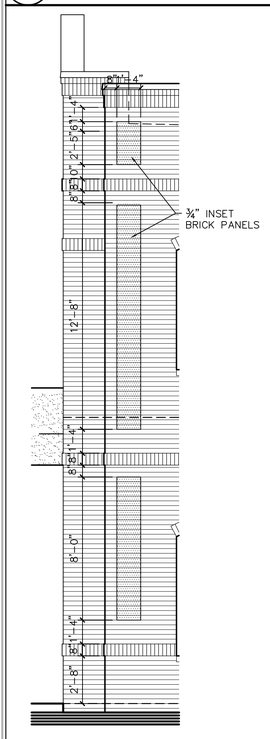


B1 / A-8 ENTRY LINTEL DETAIL
SCALE: 1 1/2" = 1'-0"

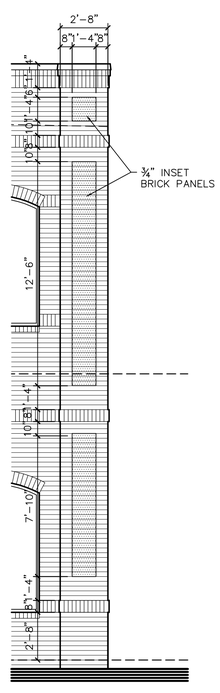


NOTE:
SEE ELEVATION B3/A-7 FOR NOTING OF TYPICAL/ SIMILAR CONDITIONS.

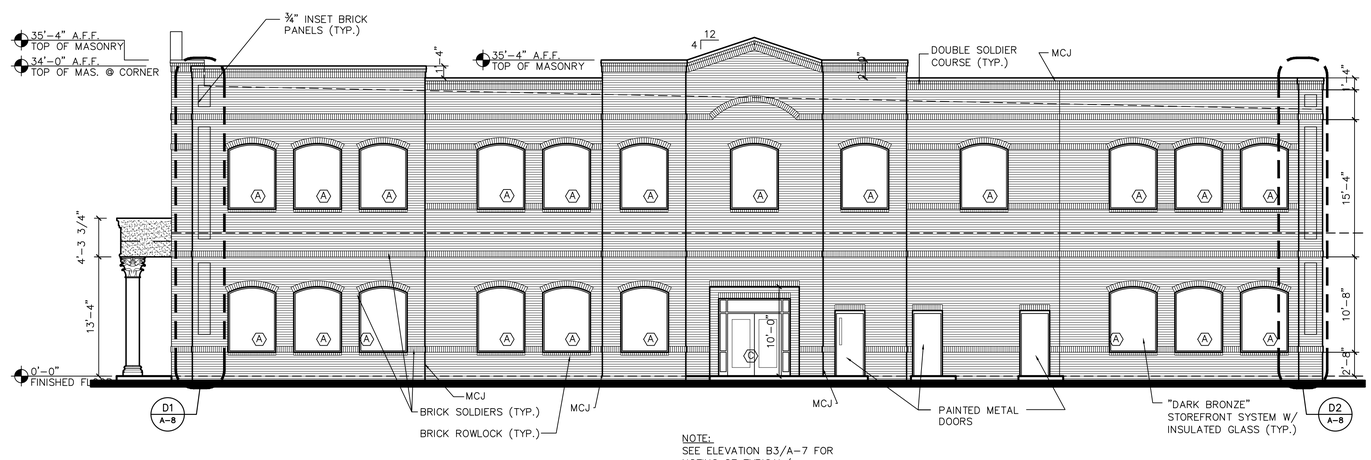
B3 / A-8 NORTH (SIDE) EXTERIOR ELEVATION
SCALE: 1/8" = 1'-0"



D1 / A-8 ELEVATION DETAIL
SCALE: 1/4" = 1'-0"



D2 / A-8 SIDE ELEVATION DETAIL
SCALE: 1/4" = 1'-0"



NOTE:
SEE ELEVATION B3/A-7 FOR NOTING OF TYPICAL/ SIMILAR CONDITIONS.

D3 / A-8 SOUTH (SIDE) EXTERIOR ELEVATION
SCALE: 1/8" = 1'-0"

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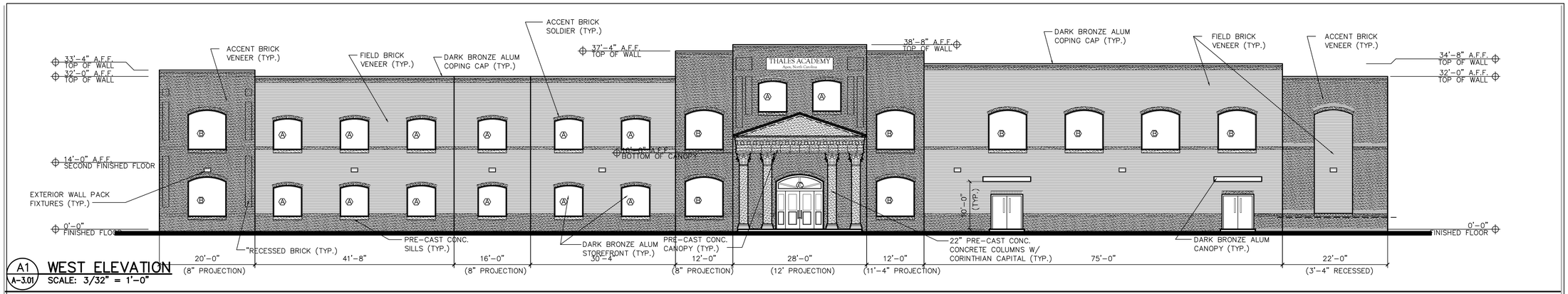
Title:

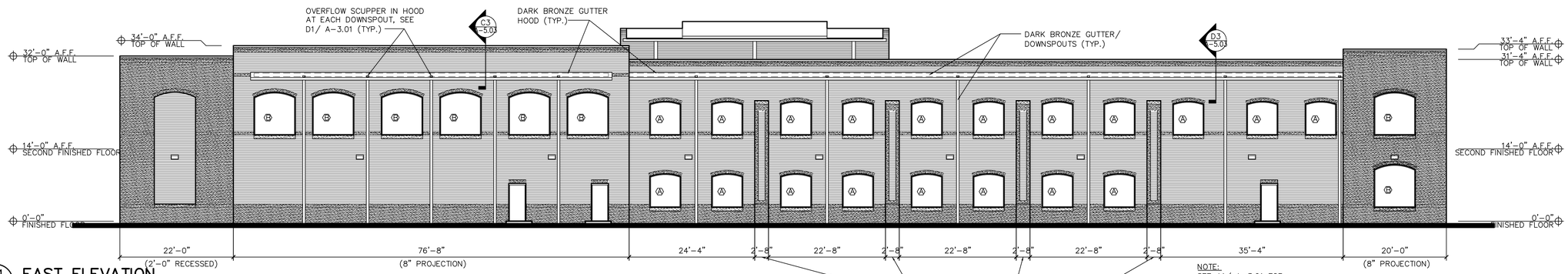
ELEMENTARY SCHOOL ELEVATIONS

Project number: 15054 Sheet:
Date: 08.31.2016
Drawn by: JA
Approved by: JA

A-3.02

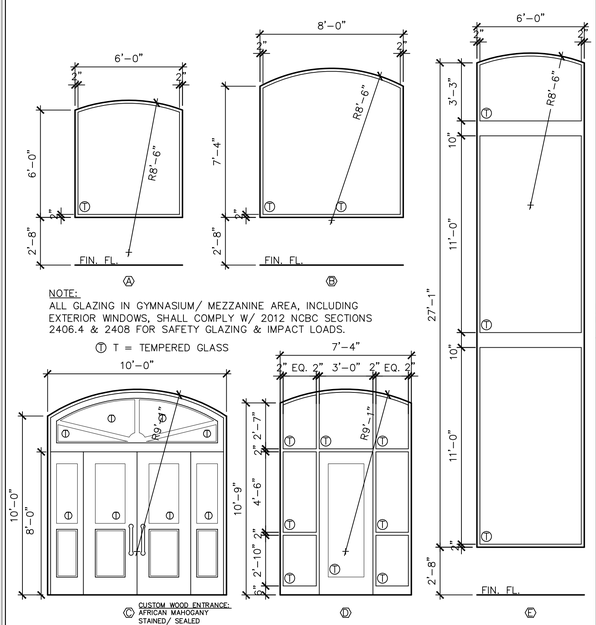


A1 A-3.01 **WEST ELEVATION**
SCALE: 3/32" = 1'-0"

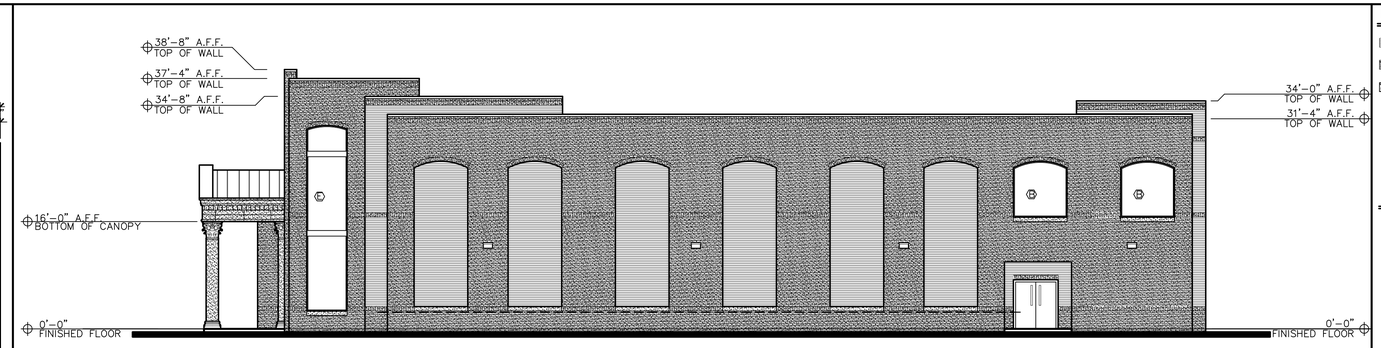


NOTE:
SEE A1/ A-3.01 FOR NOTING OF TYPICAL & SIMILAR CONDITIONS

B1 A-3.01 **EAST ELEVATION**
SCALE: 3/32" = 1'-0"

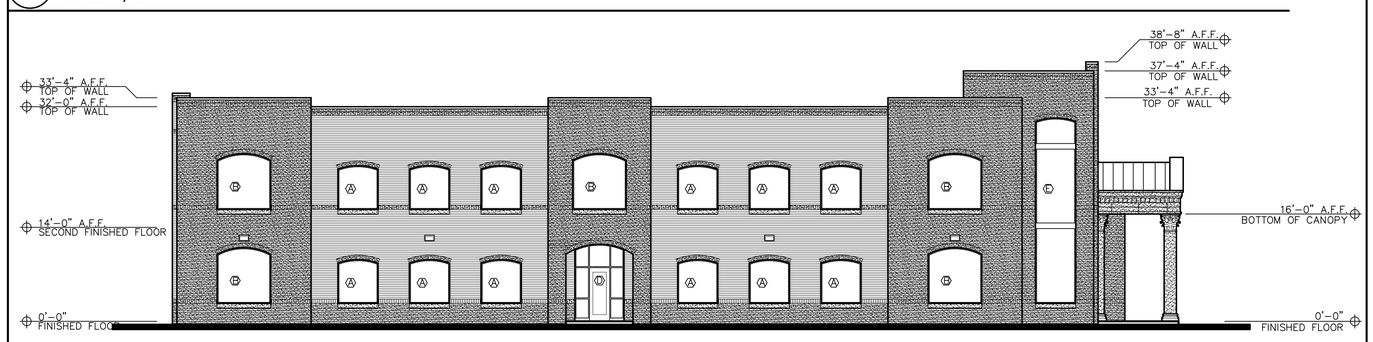


D1 A-3.01 **STOREFRONT ELEVATIONS**
SCALE: 1/4" = 1'-0"



NOTE:
SEE A1/ A-3.01 FOR NOTING OF TYPICAL & SIMILAR CONDITIONS

C2 A-3.01 **SOUTH ELEVATION**
SCALE: 3/32" = 1'-0"



NOTE:
SEE A1/ A-3.01 FOR NOTING OF TYPICAL & SIMILAR CONDITIONS

D2 A-3.01 **NORTH ELEVATION**
SCALE: 3/32" = 1'-0"

MATERIAL INDEX:

- FIELD BRICK: PINE HALL "OLD HAMPTON"
- ACCENT BRICK: OLD VIRGINIA BRICK "ALBEMARLE"
- PRE-CAST CONCRETE
- STOREFRONT: DARK BRONZE ALUMINUM
- COPING CAP: DARK BRONZE ALUMINUM
- ENTRANCE CANOPY ROOF/ GYM CANOPIES: DARK BRONZE
- MAIN ROOF: WHITE MEMBRANE

PROJECT INFORMATION:

-BUILDING OCCPANCY:	EDUCATIONAL
-CONSTRUCTION TYPE:	II-B
-1ST FLOOR:	31,748 SF
-2ND FLOOR:	21,510 SF
TOTAL:	53,258 SF

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MIDDLE & HIGH SCHOOL ELEVATIONS

Project number: 15054.1 Sheet:
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Approved by: JA

A-3.03