

VICINITY MAP (N.T.S.)

SITE DATA

PROJECT: BLAIR ELEMENTARY SCHOOL
 OWNER: NEW HANOVER COUNTY SCHOOLS
 OWNER CONTACT: NEW HANOVER COUNTY BOARD OF EDUCATION
 DESIGNER: CLH DESIGN, PA
 DESIGNER CONTACT: ZAK PIERCE
 PROJECT ADDRESS: 6510 MARKET STREET WILMINGTON, NC 28405
 PIN: R05008-003-032-000
 ZONING: O&I-1
 OVERLAY DISTRICT: N/A
 EXISTING USE: INSTITUTIONAL/EDUCATIONAL
 PROPOSED USE: INSTITUTIONAL/EDUCATIONAL
 TRACT AREA: 13.79 ACRES (600,692.4 SF)
 FLOODPLAIN: SITE IS NOT WITHIN A FLOODPLAIN (REF: FIRM 3720315800J, APRIL 3, 2006)

THERE ARE NO WETLANDS ON THIS SITE.
 THERE ARE NO ENDANGERED SPECIES OR HABITATS ON THIS SITE.
 BUILDING SETBACKS: REQUIRED PROVIDED
 FRONT 20' 147'
 REAR 20' 96'
 INTERIOR SIDE 20' 381'

TYPE OF CONSTRUCTION: TYPE IIB

PARKING REQUIREMENTS:
 PARKING CODE: 1 SPACE PER TEACHER OR STAFF PERSON
 NO. OF TEACHERS AND STAFF: 50
 TOTAL SPACES REQ'D: 50
 TOTAL SPACES PROVIDED: 111
 TOTAL H/C SPACES REQ'D: 5
 TOTAL H/C SPACES PROVIDED: 5 (W/ 2 VAN ACCESSIBLE)

NUMBER OF PROPOSED BUILDINGS: 1
 NUMBER OF FLOORS ON PROPOSED BUILDING: 1
 GROSS FLOOR AREA: EXISTING: 49,624 SQFT. PROPOSED 1ST FLOOR: 56,781 SQFT. PROPOSED 2ND FLOOR: 30,844 SQFT. PROPOSED TOTAL: 87,625 SQFT.

BUILDING LOT COVERAGE-EXISTING: 8.3%
 BUILDING LOT COVERAGE-PROPOSED: 9.5%
 MAX. BUILDING HEIGHT PROPOSED: 33' 1"

EXISTING IMPERVIOUS (WITHIN PROJECT LIMITS): 4.18-AC (182,222.76-SF)
 PROPOSED IMPERVIOUS (WITHIN PROJECT LIMITS): 4.69-AC (204,420.34-SF)

CAMA LAND USE CLASSIFICATION: URBAN
 CAMA AREAS OF CONCERN (AEC): THIS SITE IS NOT WITHIN A CAMA AEC.

THE SITE HAS NO LOCAL, STATE OR FEDERALLY RECOGNIZED HISTORIC STRUCTURES OR ARCHAEOLOGICAL RESOURCES.
 THE SITE HAS NO CEMETARIES, BURIAL SITES OR BURIAL GROUNDS.
 THE SITE HAS NO EXISTING EASEMENT ON SITE.

PROPOSED WATER AND SEWER CAPACITY:
 WATER: 7,200 GPD (600 STUDENTS X 12 GPD)
 SEWER: 7,200 GPD (600 STUDENTS X 12 GPD)

A TREE REMOVAL/PRESERVATION PERMIT IS REQUIRED PRIOR TO REMOVING ANY TREES. CONTRACTOR SHALL OBTAIN & COMPLETE PERMIT. CONTACT CITY OF WILMINGTON ZONING DEPARTMENT TO OBTAIN COPY OF PERMIT.

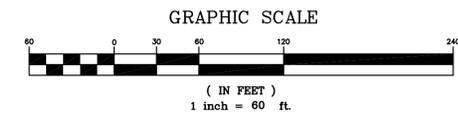
CITY OF WILMINGTON NOTES

1. PRIOR TO ANY CLEARING, GRADING OR CONSTRUCTION ACTIVITY, TREE PROTECTION FENCING SHALL BE INSTALLED AROUND PROTECTED TREES OR GROVES OF TREES. NO CONSTRUCTION WORKERS, TOOLS, MATERIALS OR VEHICLES ARE PERMITTED WITHIN TREE PROTECTION FENCING.
2. ANY TREES AND/OR AREAS DESIGNATED TO BE PROTECTED MUST BE PROPERLY BARRICADED WITH FENCING AND PROTECTED THROUGHOUT CONSTRUCTION TO INSURE THAT NO CLEARING, GRADING OR STAGING OF MATERIALS WILL OCCUR IN THOSE AREAS.
3. NO EQUIPMENT IS ALLOWED ON SITE UNTIL ALL TREE PROTECTION FENCING AND SILT FENCING IS INSTALLED AND APPROVED. PROTECTIVE FENCING IS TO BE MAINTAINED THROUGHOUT THE DURATION OF THE PROJECT, AND CONTRACTORS SHALL RECEIVE ADEQUATE INSTRUCTION ON TREE PROTECTION METHODS.
4. ALL PAVEMENT MARKINGS IN PUBLIC RIGHTS-OF-WAY AND FOR DRIVEWAYS ARE TO BE THERMOPLASTIC AND MEET CITY AND/OR NCDOT STANDARDS.
5. ONCE STREETS ARE OPEN TO TRAFFIC, CONTACT TRAFFIC ENGINEERING REGARDING THE INSTALLATION OF TRAFFIC AND STREET NAME SIGNS. PROPOSED STREET NAMES MUST BE APPROVED PRIOR TO INSTALLATION OF STREET NAME SIGNS.
6. TRAFFIC CONTROL DEVICES (INCLUDING SIGNS AND PAVEMENT MARKINGS) IN AREAS OPEN TO PUBLIC TRAFFIC ARE TO MEET MUTCD (MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES) STANDARDS.
7. CONTACT TRAFFIC ENGINEERING AT 910.341.7888 TO ENSURE THAT ALL TRAFFIC SIGNAL FACILITIES AND EQUIPMENT ARE SHOWN ON THE PLAN.
8. CALL TRAFFIC ENGINEERING AT 910.341.7888 FORTY-EIGHT (48) HOURS PRIOR TO ANY EXCAVATION IN THE RIGHT-OF-WAY.
9. TRAFFIC ENGINEERING MUST APPROVE OF PAVEMENT MARKING PRIOR TO ACTUAL STRIPING.
10. ALL PARKING STALL MARKINGS AND LANE ARROWS WITH THE PARKING AREAS SHALL BE WHITE.
11. ALL TRAFFIC CONTROL SIGNS AND MARKINGS OFF THE RIGHT-OF-WAY ARE TO BE MAINTAINED BY THE PROPERTY OWNER.
12. STOP SIGNS AND STREET SIGNS TO REMAIN IN PLACE DURING CONSTRUCTION.
13. TACTILE WARNING MATS WILL BE INSTALLED ON ALL WHEELCHAIR RAMPS.
14. A UTILITY CUT PERMIT IS REQUIRED FOR EACH OPEN CUT OF A CITY STREET.
15. ANY BROKEN OR MISSING SIDEWALK PANELS, DRIVEWAY PANELS & CURBS WILL BE REPLACED.
16. CONTACT TRAFFIC ENGINEERING AT 910.341.7888 TO DISCUSS STREET LIGHT OPTIONS.
17. WATER AND SEWER SERVICE SHALL MEET CFAE FEAR PUBLIC UTILITY AUTHORITY (CPFUA) DETAILS AND SPECIFICATIONS.
18. PROJECT SHALL COMPLY WITH CPFUA CROSS CONNECTION CONTROL REQUIREMENTS. WATER METER(S) CANNOT BE RELEASED UNTIL ALL REQUIREMENTS ARE MET AND THE STATE HAS GIVEN THEIR FINAL APPROVAL. CALL 910.343.3910 FOR INFORMATION.
19. IF THE CONTRACTOR DESIRED CPFUA WATER FOR CONSTRUCTION, HE SHALL APPLY IN ADVANCE FOR THIS SERVICE AND MUST PROVIDE A REDUCED PRESSURE ZONE (RPZ) BACKFLOW PREVENTION DEVICE ON THE DEVELOPER'S SIDE OF THE WATER METER BOX.
20. ANY IRRIGATION SYSTEM SUPPLIED BY CPFUA WATER SHALL COMPLY WITH THE CPFUA CROSS CONNECTION CONTROL REGULATIONS. CALL 910.343.3910 FOR INFORMATION.
21. ANY IRRIGATION SYSTEM SHALL BE EQUIPPED WITH A RAIN AND FREEZER SENSOR.
22. ANY BACKFLOW PREVENTION DEVICES REQUIRED BY CPFUA WILL NEED TO BE ON THE LIST OF APPROVED DEVICES BY USFCCOHR OR ASSE.
23. CONTRACTOR TO FIELD VERIFY EXISTING WATER AND SEWER SERVICE LOCATIONS, SIZES AND MATERIALS PRIOR TO CONSTRUCTION. ENGINEER TO BE NOTIFIED OF ANY CONFLICTS.
24. CONTRACTOR SHALL MAINTAIN ALL-WEATHER ACCESS FOR EMERGENCY VEHICLES AT ALL TIMES DURING CONSTRUCTION.
25. UNDERGROUND FIRE LINE(S) MUST BE PERMITTED AND INSPECTED BY THE WILMINGTON FIRE DEPARTMENT FROM THE PUBLIC RIGHT-OF-WAY TO THE BUILDING. CONTACT WILMINGTON FIRE DEPARTMENT DIVISION OF FIRE AND LIFE SAFETY AT 910.341.0696.
26. NO OBSTRUCTIONS ARE PERMITTED IN THE SPACE BETWEEN THIRTY (30) INCHES AND TEN (10) FEET ABOVE THE GROUND WITHIN THE TRIANGULAR SIGHT DISTANCE.
27. CONTACT THE NORTH CAROLINA ONE CALL CENTER AT 1.800.632.4949 PRIOR TO DOING ANY DIGGING, CLEARING OR GRADING.

APPROVED CONSTRUCTION PLAN

NAME	DATE
PLANNING _____	_____
TRAFFIC _____	_____
FIRE _____	_____

City of Wilmington
 Public Services • Engineering Division
 APPROVED STORMWATER MANAGEMENT PLAN
 Date: _____ Permit # _____
 Signed: _____



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 400 Regency Forest Drive
 Suite 150
 Cary, North Carolina 27518
 Phone: (919) 319-7516
 Fax: (919) 319-7516
 E: c-1@clh.com

DESIGN DEVELOPMENT
**BLAIR ELEMENTARY SCHOOL
 NEW HANOVER COUNTY SCHOOLS**
 WILMINGTON, NORTH CAROLINA

ENERGY STAR PARTNER

ID	DATE	DESCRIPTION
		ISSUE DATE: 06/21/2016

PROJECT #: 01504.000
 CAD TECH.: xxx
 CAD TECH.:
 CHECKED BY:

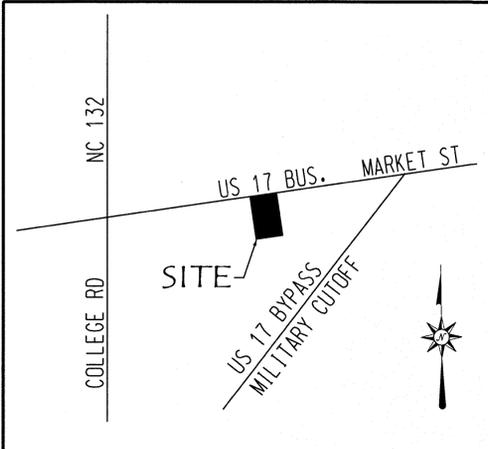
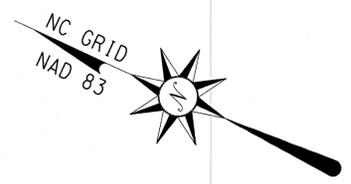
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OVERALL
 SITE PLAN

C0.1

I, JAMES H. FENTRESS, JR., HEREBY CERTIFY THAT THIS TOPOGRAPHIC MAP WAS DRAWN UNDER MY DIRECTION AND SUPERVISION FROM AN ACTUAL TOPOGRAPHIC SURVEY MADE UNDER MY DIRECTION AND SUPERVISION. ALL FEATURES SHOWN ARE THOSE VISIBLE AT TIME OF SURVEY. ORIGINAL SURVEY 2007 UPDATED 2016.

WITNESS MY HAND AND SEAL THIS DAY OF NOV 2016.



VICINITY MAP
NOT TO SCALE

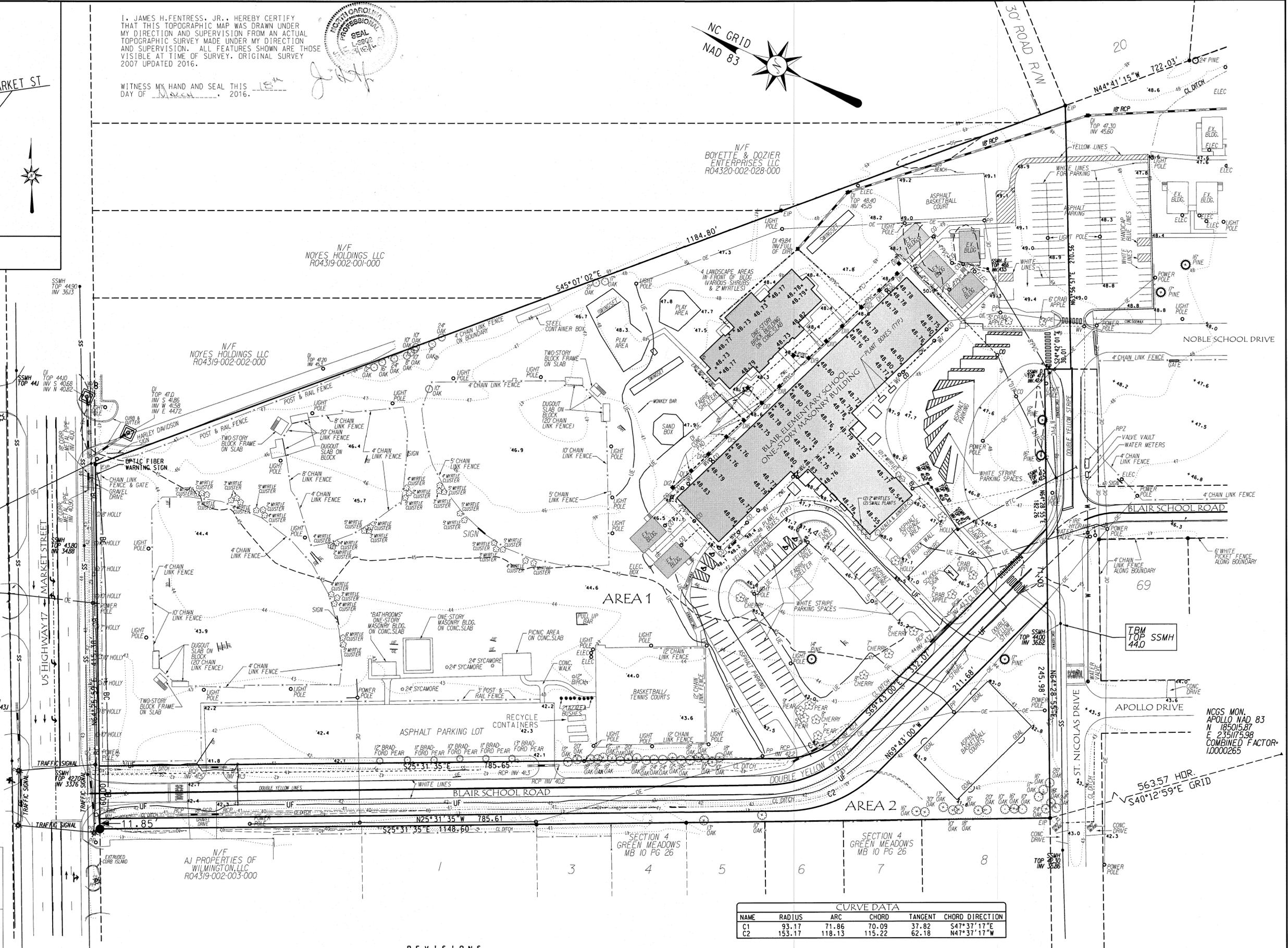
LEGEND

- BC — BURIED COMMUNICATION CONDUIT
- UE — UNDERGROUND ELECTRIC
- OE — OVERHEAD ELECTRIC
- UT — UNDERGROUND TELEPHONE
- UC — UNDERGROUND CATV
- SD — STORM DRAIN
- WM — WATER METER
- PP — POWER POLE
- CD — CLEAN OUT
- ELEC — ELECTRIC
- WV — WATER VALVE
- SSMH — SANITARY SEWER MANHOLE

NOTE:
UNDERGROUND UTILITIES ARE AS IDENTIFIED BY UTILITY SERVICES AND INFERRED FROM AT GRADE APPURTENANCES. UTILITIES AND MATERIAL SHOWN BY DASHED LINE ARE AS COMPILED FROM RECORD DRAWINGS.

FLOODPLAIN NOTE:
THIS PROPERTY IS NOT LOCATED WITHIN THE SPECIAL FLOOD HAZARD AREA AS SHOWN IN COMMUNITY PANEL 3720 3188 00J.

DROP INLET DATA		
INLET #	TOP	INVERT
DI 2	47.70	46.50
DI 3	47.90	46.35
DI 4	48.20	46.88
DI 5	48.00	46.60
DI 6	47.90	46.58
DI 7	48.10	46.46
DI 8	48.00	46.78
DI 9	48.00	46.54
DI 10	47.90	
DI 11	48.10	46.52
DI 12	48.00	46.27
DI 13	48.10	46.55
DI 14	48.10	46.70
DI 15	47.80	46.44
DI 16	46.80	44.59



BLAIR ELEMENTARY SCHOOL TRACT
AREA 1 = 12.84 ACRES
AREA 2 = 0.95 ACRES
TOTAL = 13.79 ACRES

CURVE DATA					
NAME	RADIUS	ARC	CHORD	TANGENT	CHORD DIRECTION
C1	93.17	71.86	70.09	37.82	S47°37'17"E
C2	153.17	118.13	115.22	62.18	N47°37'17"W

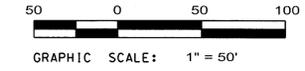
REVISIONS			
BY	NO.	DATE	DESCRIPTION

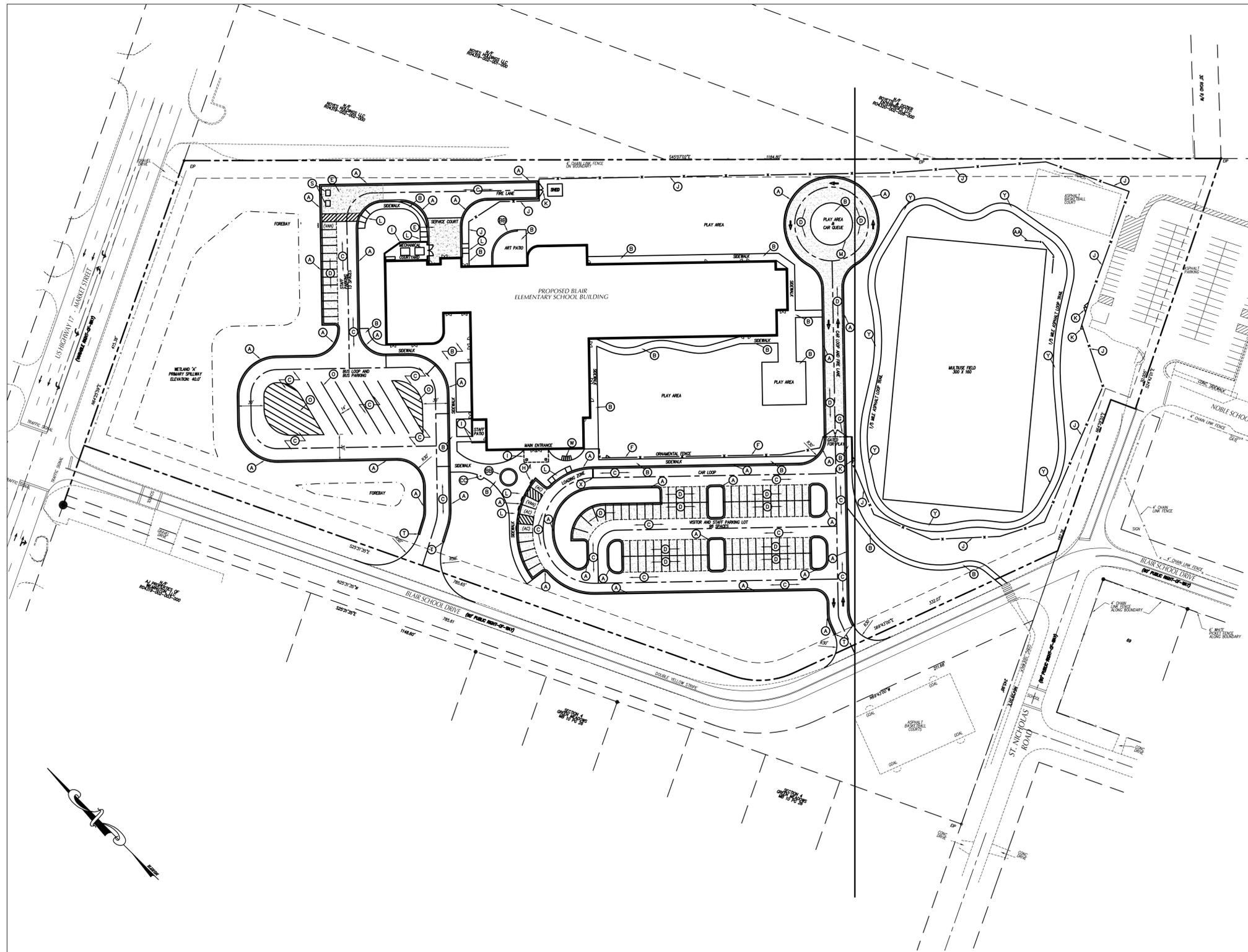
DESIGNED: DATE: 2/26/16
DRAWN: GAG SCALE: 1" = 50'
APPROVED: JHF SHEET 1 OF 1

OWNER: NEW HANOVER COUNTY SCHOOLS
ADDRESS: 6410 CAROLINA BEACH RD
WILMINGTON, NC 28412
PHONE: (910) 254-4350

STROUD ENGINEERING, P.A.
102-D CINEMA DRIVE
WILMINGTON, NORTH CAROLINA 28403
(910) 815-0775 (910) 815-0593 FAX

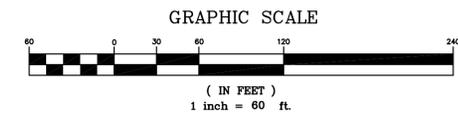
TOPOGRAPHICAL SURVEY FOR
BLAIR ELEMENTARY SCHOOL
CITY OF WILMINGTON NEW HANOVER COUNTY NORTH CAROLINA





APPROVED CONSTRUCTION PLAN	
NAME	DATE
PLANNING	
TRAFFIC	
FIRE	


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



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 PE: C-1096

DESIGN DEVELOPMENT
BLAIR ELEMENTARY SCHOOLS
NEW HANOVER COUNTY SCHOOLS
 WILMINGTON, NORTH CAROLINA



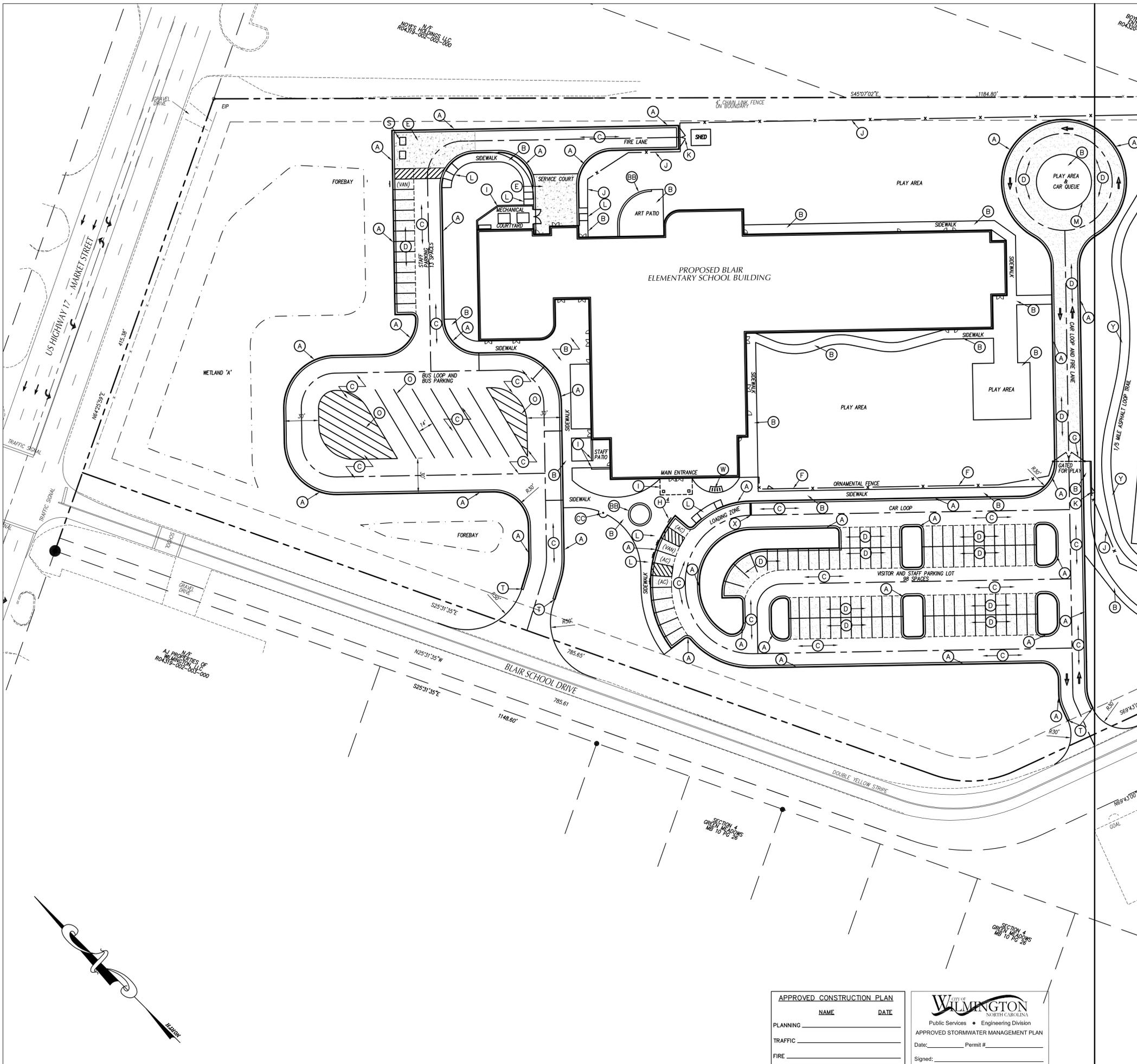
ID	DATE	DESCRIPTION
ISSUE DATE: 06/21/2016		

PROJECT #: 01504.000
 CAD TECH.: xxx
 CAD TECH.:
 CHECKED BY:

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OVERALL SITE
STAKING PLAN

C1.0



- ### KEY NOTES
- (A) 24" CONCRETE CURB & GUTTER, SEE DETAIL SHEET C7.2.
 - (B) CONCRETE SIDEWALK, SEE DETAIL SHEET C7.2.
 - (C) HEAVY DUTY ASPHALT PAVEMENT, SEE DETAIL SHEET C7.2.
 - (D) PERVIOUS CONCRETE PAVEMENT, SEE DETAIL SHEET.
 - (E) CONCRETE PAVEMENT, SEE DETAIL SHEET C7.2.
 - (F) 4' ORNAMENTAL FENCE, SEE DETAIL SHEET.
 - (G) PIPE GATE, SEE DETAIL SHEET C7.9.
 - (H) ACCESSIBLE PARKING SIGNAGE, SEE DETAIL SHEET C7.3.
 - (I) SEE ARCHITECTURAL PLANS FOR SCREEN WALLS, RAMP, CANOPY, STEPS, ETC.
 - (J) 4' VINYL COATED CHAIN-LINK FENCE, SEE DETAIL SHEET C07.04.
 - (K) VINYL COATED CHAIN-LINK GATE, SEE DETAIL SHEET C07.04.
 - (L) ACCESSIBLE CURB RAMP, SEE DETAIL SHEET C7.3.
 - (M) ASPHALT PAVEMENT FLUSH WITH SIDEWALK.
 - (N) DIRECTIONAL ARROW, SEE TRAFFIC CONTROL NOTES THIS SHEET.
 - (O) SOLID WHITE MARKING, SEE TRAFFIC CONTROL NOTES THIS SHEET.
 - (P) TRAFFIC CONTROL SIGNAGE, SEE TRAFFIC CONTROL NOTES THIS SHEET.
 - (Q) FIRE LANE STRIPING, SEE TRAFFIC CONTROL NOTES THIS SHEET.
 - (R) HI-VIS CROSSWALK, SEE TRAFFIC CONTROL NOTES THIS SHEET.
 - (S) DUMPSTERS, PROVIDED BY OWNER, RELOCATED BY CONTRACTOR. COORDINATE WITH OWNER FOR TEMPORARY LOCATION DURING CONSTRUCTION. REFER TO STAKING PLANS FOR FINAL LOCATION AFTER CONSTRUCTION.
 - (T) STANDARD METHOD OF ENDING CURB, SEE DETAIL SHEET C7.2.
 - (U) PRE-CAST CONCRETE WHEEL STOP, SEE DETAIL SHEET C7.2.
 - (V) NO PARKING - FIRE LANE SIGNAGE, SEE DETAIL SHEET C7.2.
 - (W) BIKE RACKS, SEE DETAIL SHEET C7.2.
 - (X) STOP BAR, SEE TRAFFIC CONTROL NOTES THIS SHEET.
 - (Y) ASPHALT WALKING TRAIL, SEE DETAIL SHEET.
 - (Z) SIDEWALK FLUSH W/ PAVEMENT, SEE ACCESS. PARKING CURB RAMP DETAIL SHT C7.2.
 - (AA) TEE-BALL BACKSTOP, SEE DETAIL SHEET.
 - (BB) SEAT WALL, SEE DETAIL SHEET.
 - (CC) FLAG POLE, SEE DETAIL SHEET.

- ### GENERAL NOTES
1. ALL DIMENSIONS SHOWN ARE FACE OF CURB AND FACE OF BUILDING WALL, UNLESS OTHERWISE SHOWN.
 2. CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFICATION OF ALL DIMENSIONS SHOWN AND CONTACT THE ARCHITECT IF ANY DISCREPANCIES OCCUR.
 3. CONSTRUCTION STAKE OUT IS THE RESPONSIBILITY OF THE CONTRACTOR.
 4. ALL SIGNS AND PAVEMENT MARKINGS ARE TO MEET MUTCD (MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES) STANDARDS.
 5. PAVEMENT MARKINGS IN PUBLIC RIGHT-OF-WAYS AND FOR DRIVEWAYS ARE TO BE THERMOPLASTIC AND MEET CITY OF WILMINGTON AND/OR NCDOT STANDARDS.
 6. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH CITY OF WILMINGTON STANDARDS AND SPECIFICATIONS.
 7. REPLACEMENT OF ANY BROKEN OR DAMAGED CONCRETE SIDEWALK PANELS OR CURBING THAT OCCURS DURING CONSTRUCTION IS THE RESPONSIBILITY OF THE CONTRACTOR.
 8. ALL PARKING STALL RADI SHALL BE 4' UNLESS OTHERWISE NOTED.
 9. PIPE GATE AT THE BUS DROP-OFF/FIRE LANE SHALL MEET THE CITY OF WILMINGTON FIRE SERVICES GATE REQUIREMENTS FOR LOCKING ARRANGEMENTS.
 10. A PORTION OF THIS PROPERTY IS LOCATED IN THE 100 YEAR FLOOD ZONE AS SHOWN IN THE COMMUNITY PANEL 3701710005 C DATED NOV. 4,1997.

TRAFFIC CONTROL NOTES

1. ALL SITE SIGNAGE SHALL BE IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND NCDOT STANDARDS.

SIGN	MUTCD STD.	SIZE
STOP	R1-1	30"x30"
ONE WAY	R6-1	36"x12"
DO NOT ENTER (DNE)	R5-1	30"x30"
2. ALL SIGNS SHALL BE MOUNTED WITH 7'-FT MIN. VERTICAL CLEARANCE TO THE BOTTOM OF THE SIGN ON 2'-LB. GALV. STEEL U-CHANNEL POST SET IN 3'-FT DEEP x 12'-IN DIA. CONCRETE FOOTING.
3. ALL PAVMENT MARKINGS SHALL BE IN ACCORDANCE WITH THE MUTCD AND NCDOT STANDARDS AND THE PROJECT SPECIFICATIONS.

MARKING	NCDOT STD.	SIZE	COLOR
PARKING SPACE	-	4'-IN	WHT.
DIRECTIONAL ARROWS	1205.08	STD.	WHT.
NO PARKING - FIRE LANE *	-	4'-IN	WHT.
SOLID	-	4'-IN	WHT.
CROSSWALK	1205.07(HI-VIS)	24'-IN	WHT.
STOP BAR	-	24'-IN	WHT.

* NO PARKING - FIRE LANE MARKING SHALL CONSIST OF A 4" SOLID WHITE STRIPE AND 8" HIGH WHITE TEXT "NO PARKING - FIRE LANE" AT 50' INTERVALS. PROVIDE IN ALL PAVED AREAS AS DESIGNATED BY FIRE MARSHALL.
4. ALL PAVEMENT MARKINGS ON SITE MAY BE EITHER THERMOPLASTIC OR ALKYD-RESIN TYPE PAINT.
5. ALL SIGNAGE SHALL BE FIELD STAKED AND THE LOCATIONS APPROVED BY CLH DESIGN PRIOR TO SIGN INSTALLATION.
6. CENTER ALL DIRECTIONAL ARROWS WITHIN TRAVEL LANE.

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PE: C-1096

DESIGN DEVELOPMENT
BLAIR ELEMENTARY SCHOOL
NEW HANOVER COUNTY SCHOOLS
WILMINGTON, NORTH CAROLINA

ENERGY STAR PARTNER

ID	DATE	DESCRIPTION

PROJECT #: 01504.000
CAD TECH.: xxx
CHECKED BY:

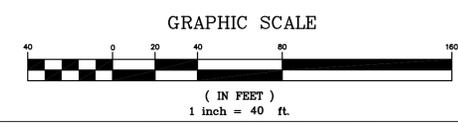
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SITE STAKING PLAN

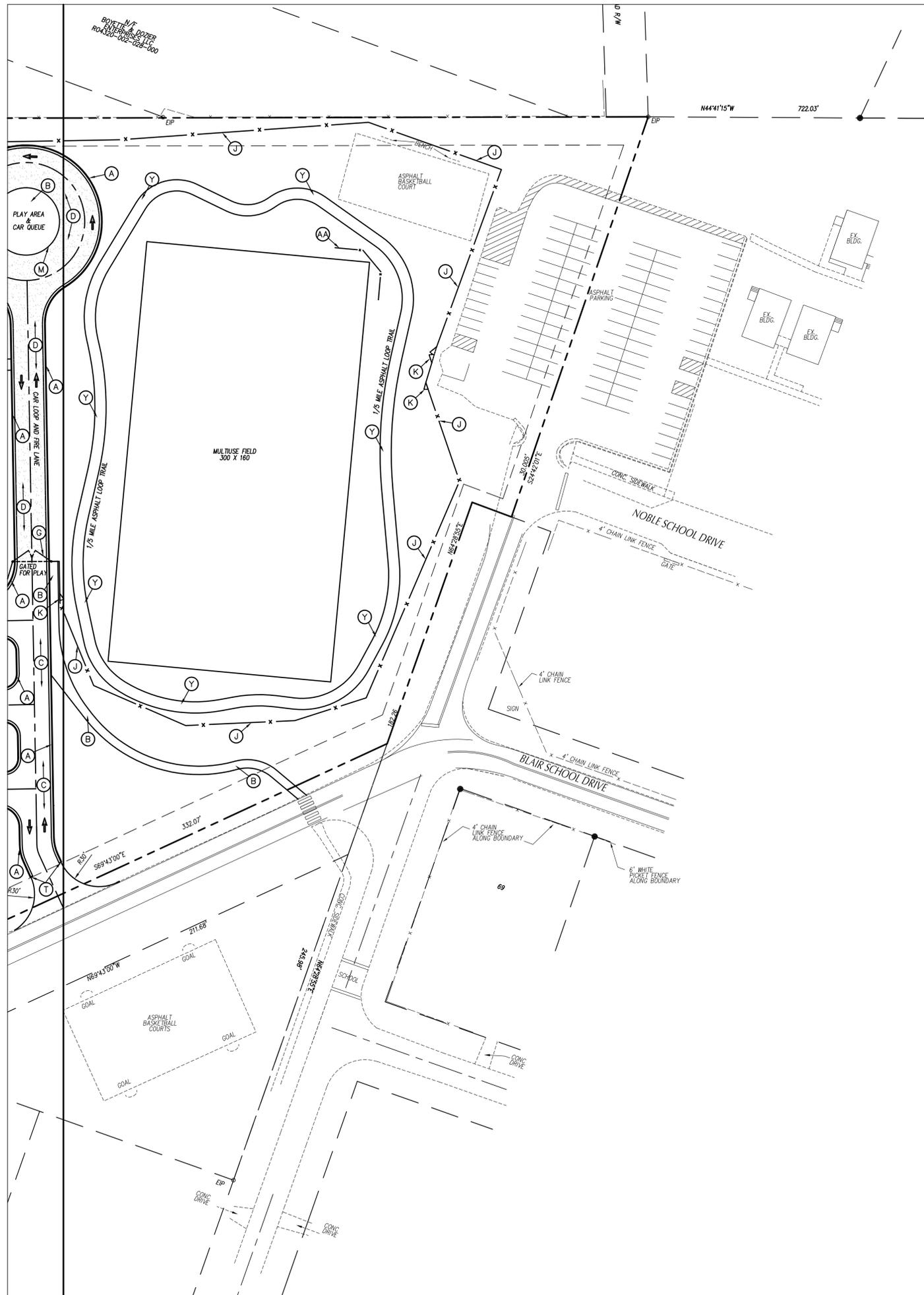
APPROVED CONSTRUCTION PLAN

NAME	DATE
PLANNING _____	
TRAFFIC _____	
FIRE _____	

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



C1.1



KEY NOTES

- (A) 24" CONCRETE CURB & GUTTER, SEE DETAIL SHEET C7.2.
- (B) CONCRETE SIDEWALK, SEE DETAIL SHEET C7.2.
- (C) HEAVY DUTY ASPHALT PAVEMENT, SEE DETAIL SHEET C7.2.
- (D) PERVIOUS CONCRETE PAVEMENT, SEE DETAIL SHEET.
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ONE WAY	R6-1	36"x12"
DO NOT ENTER (DNE)	R5-1	30"x30"
2. ALL SIGNS SHALL BE MOUNTED WITH 7'-FT MIN. VERTICAL CLEARANCE TO THE BOTTOM OF THE SIGN ON 2'-LB. GALV. STEEL U-CHANNEL POST SET IN 3'-FT DEEP x 12"-IN DIA. CONCRETE FOOTING.
3. ALL PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH THE MUTCD AND NCDOT STANDARDS AND THE PROJECT SPECIFICATIONS.

MARKING	NCDOT STD.	SIZE	COLOR
PARKING SPACE	-	4'-IN	WHT.
DIRECTIONAL ARROWS	1205.08	STD.	WHT.
NO PARKING - FIRE LANE *	-	4'-IN	WHT.
SOLID	-	4'-IN	WHT.
CROSSWALK	1205.07(HI-VIS)	24'-IN	WHT.
STOP BAR	-	24'-IN	WHT.

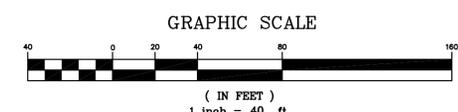
* NO PARKING - FIRE LANE MARKING SHALL CONSIST OF A 4" SOLID WHITE STRIPE AND 8" HIGH WHITE TEXT "NO PARKING - FIRE LANE" AT 50' INTERVALS. PROVIDE IN ALL PAVED AREAS AS DESIGNATED BY FIRE MARSHALL.
4. ALL PAVEMENT MARKINGS ON SITE MAY BE EITHER THERMOPLASTIC OR ALKYO-RESIN TYPE PAINT.
5. ALL SIGNAGE SHALL BE FIELD STAKED AND THE LOCATIONS APPROVED BY CLH DESIGN PRIOR TO SIGN INSTALLATION.
6. CENTER ALL DIRECTIONAL ARROWS WITHIN TRAVEL LANE.

APPROVED CONSTRUCTION PLAN

NAME	DATE
PLANNING _____	_____
TRAFFIC _____	_____
FIRE _____	_____

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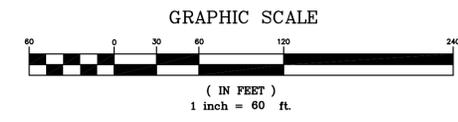
SITE STAKING PLAN

C1.2



APPROVED CONSTRUCTION PLAN	
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OVERALL EXISTING
CONDITIONS AND
DEMO PLAN

C2.0



LEGEND-STRUCTURES/UTILITIES TO REMAIN

OVERHEAD ELECTRICAL	-----E-----	LIGHT POLE	☆ LP
UNDERGROUND ELECTRICAL	-----UE-----	UTILITY POLE	⊙ PP
FIRE PROTECTION	-----FP-----	MANHOLE	⊙ MH
GAS	-----G-----	CLEAN OUT	⊙ CO
SANITARY SEWER	-----SS-----	DROP INLET,CATCH BASIN	□ DI, CB
TELEPHONE	-----T-----	FIRE HYDRANT	⊙ FH
UNDERGROUND TELEPHONE	-----UT-----	WATER VALVE	⊙ WV
FIBER OPTIC	-----FO-----		
WATER	-----W-----		
FORCE MAIN	-----FM-----		
STORM DRAIN	-----SD-----		
INDIVIDUAL TREE TO REMAIN	⊗		

LEGEND-STRUCTURES/UTILITIES TO BE REMOVED

OVERHEAD ELECTRICAL	-----E-----	LIGHT POLE	☆ LP
UNDERGROUND ELECTRICAL	-----UE-----	UTILITY POLE	⊙ PP
FIRE PROTECTION	-----FP-----	MANHOLE	⊙ MH
GAS	-----G-----	CLEAN OUT	⊙ CO
SANITARY SEWER	-----SS-----	DROP INLET,CATCH BASIN	□ DI, CB
TELEPHONE	-----T-----	FIRE HYDRANT	⊙ FH
UNDERGROUND TELEPHONE	-----UT-----	WATER VALVE	⊙ WV
FIBER OPTIC	-----FO-----	CONSTR./CLEARING LIMITS	▨
WATER	-----W-----	PAVEMENT, S/W, CONCRETE TO BE DEMOLISHED	▨
FORCE MAIN	-----FM-----	BUILDINGS TO BE DEMOLISHED REFER TO ARCHITECTURAL PLANS FOR ADDITIONAL INFORMATION.	▨
STORM DRAIN	-----SD-----		
INDIVIDUAL TREE TO BE REMOVED	⊗		

KEY NOTES

- (A) SAWCUT AND REMOVE PAVEMENT, CURB & GUTTER, AND SIDEWALK.
- (B) BUILDING/STRUCTURES TO BE DEMOLISHED. REFER TO ARCHITECTURAL PLANS FOR ADDITIONAL INFORMATION.
- (C) STRUCTURES/UTILITIES TO BE REMOVED BY CONTRACTOR. COORDINATE W/ LOCAL UTILITY PROVIDERS AS REQUIRED, PRIOR TO REMOVING LIGHT/ELECTRICAL POLES.
- (D) CLEAR & GRUB WITHIN CONSTRUCTION LIMITS. SEE SPECIFICATIONS.
- (E) TREE PROTECTION FENCING, SEE DETAIL SHEET C7.1.
- (F) SCREEN WALL TO BE REMOVED.
- (G) ITEM TO BE SALVAGED AND RETURNED TO OWNER.
- (H) SITE ELEMENTS (TRASH CANS, BOLLARDS, BENCHES, SIGNS, ETC.) TO BE REMOVED.
- (I) SHRUBS/LANDSCAPING TO BE REMOVED.
- (J) FENCE TO BE REMOVED.

GENERAL NOTES

1. ADDITIONAL UTILITIES MAY BE ENCOUNTERED WITHIN THE CONSTRUCTION LIMITS. CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING THESE ADDITIONAL UTILITIES.
2. OUTSIDE OF CONSTRUCTION LIMITS, ALL UTILITIES OR STRUCTURES NOT INDICATED FOR REMOVAL OR MODIFICATION ARE TO REMAIN AND BE PROTECTED FROM DAMAGE.
3. ALL WASTE MATERIAL GENERATED FROM CLEARING AND DEMOLITION ACTIVITIES SHALL BE DISPOSED OF OFF-SITE IN ACCORDANCE WITH ALL APPLICABLE RULES AND REGULATIONS.
4. INITIAL TREE PROTECTION FENCING PRIOR TO BEGINNING OPERATIONS. CLEAR AND GRUB AS NEEDED WITHIN CONSTRUCTION LIMITS PER SPECIFICATIONS AND DRAWINGS. EXISTING TREES, SHRUBS OR OTHER LANDSCAPE MATERIAL WHICH WILL CONFLICT WITH NEW CONSTRUCTION SHALL BE REMOVED (WHETHER OR NOT SHOWN ON THE DRAWINGS) FOLLOWING APPROVAL OF ARCHITECT. BY SUBMITTING A BID, CONTRACTOR ACKNOWLEDGES THAT THE SITE HAS BEEN INVESTIGATED TO DETERMINE TYPE, SIZE AND QUANTITY OF CLEARING REQUIRED FOR CONSTRUCTION.
5. LAND CLEARING AND CONSTRUCTION CONTRACTORS SHALL RECEIVE ADEQUATE INSTRUCTION ON TREE PROTECTION REQUIREMENTS AND METHODS (PER CODE SECT. 18-457(O)).
6. NO EQUIPMENT IS ALLOWED ON SITE UNTIL ALL TREE PROTECTION FENCING AND SILT FENCING HAS BEEN INSTALLED AND APPROVED (PER CODE SECT. 18-458).
7. NO LAND DISTURBANCE, INCLUDING TREE REMOVAL, IS TO OCCUR OUTSIDE THE LIMITS OF DISTURBANCE SHOWN (PER CODE SECT. 18-457 (O)).
8. ALL PAVEMENT OR CONCRETE TO BE REMOVED SHALL BE SAW CUT TO PROVIDE A STRAIGHT AND UNIFORM JOINT WITH NEW CONSTRUCTION. ANY EXISTING PAVEMENT, SIDEWALK, CURB & GUTTER, ETC. THAT MUST BE REMOVED TO ALLOW NEW CONSTRUCTION SHALL BE REMOVED AND REPAIRED PER THE SPECIFICATIONS AND DETAILS OR TO MATCH EXISTING CONDITIONS (WHETHER OR NOT SHOWN ON THE DRAWINGS TO BE REMOVED). UTILITY INSTALLATIONS MAY UTILIZE OPEN CUT OF PAVEMENTS UNLESS INDICATED OTHERWISE. TRENCH IN EXISTING ASPHALT SHALL BE PATCHED PER PAVEMENT REPAIR ON DETAIL SHEET.
9. PROTECT ALL ADJACENT PROPERTIES, THE GENERAL PUBLIC AND ALL OF THE OWNER'S FACILITIES. SHOULD DAMAGES OCCUR, NOTIFY ARCHITECT IMMEDIATELY.
10. THE CONTRACTOR SHALL EMPLOY A QUALIFIED UTILITY LOCATOR SERVICE TO LOCATE ALL UNDERGROUND UTILITIES (INCLUDING BUT NOT LIMITED TO ELECTRICAL, TELEPHONE, GAS, CABLE, FIBER OPTIC) WITHIN THE LIMITS OF CONSTRUCTION.
11. VERIFY ALL ILLUSTRATED KNOWN UNDERGROUND ELEMENTS. EXERCISE REASONABLE EFFORTS TO PROTECT ANY UNKNOWN UNDERGROUND ELEMENTS. NOTIFY THE ARCHITECT IMMEDIATELY IF UNKNOWN ELEMENTS ARE DISCOVERED THAT WOULD NECESSITATE MODIFICATION TO THE PROPOSED DESIGN.
12. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE LOCAL, STATE AND OSHA REGULATIONS.
13. EXISTING MANHOLES, VALVE BOXES, VAULTS, CLEANOUTS, UTILITY POLES ETC. TO REMAIN WITHIN THE GRADING LIMITS SHALL BE ADJUSTED AS NEEDED TO FUNCTION PROPERLY WITH THE PROPOSED FINISHED GRADES (WHETHER OR NOT INDICATED TO BE MODIFIED).
14. GENERAL CONTRACTOR TO COORDINATE ALL PEDESTRIAN ACCESS PATHS, LOCATIONS, LIGHTING, HANDICAP PARKING, ETC. DURING CONSTRUCTION WITH OWNER.
15. EXISTING SURVEY INFORMATION WAS TAKEN FROM A BOUNDARY AND TOPOGRAPHIC SURVEY BY STROUD ENGINEERING DATED 2-26-16. SURVEY PROVIDED BY OWNER.
16. ANY AND ALL LANDSCAPING AND EXISTING TREES & SHRUBS TO REMAIN WHICH ARE DAMAGED DURING DEMOLITION OR CONSTRUCTION SHALL BE REPLACED BY THE CONTRACTOR UTILIZING A LICENSED LANDSCAPE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
17. CONTRACTOR SHALL PROVIDE POSITIVE DRAINAGE WITHIN THE CONSTRUCTION AREA AFTER DEMOLITION IS COMPLETE. EXCAVATIONS FROM FOOTING AND UTILITY REMOVAL SHALL BE FILLED WITH STRUCTURAL MATERIAL AS DIRECTED BY THE OWNER'S TESTING AGENCY AND COMPACTED PER SPECIFICATIONS.
18. AN ALL WEATHER ACCESS ROAD MUST BE MAINTAINED AROUND CONSTRUCTION AT ALL TIMES.

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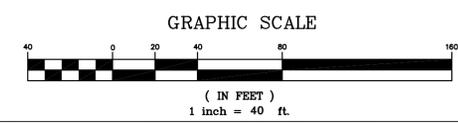
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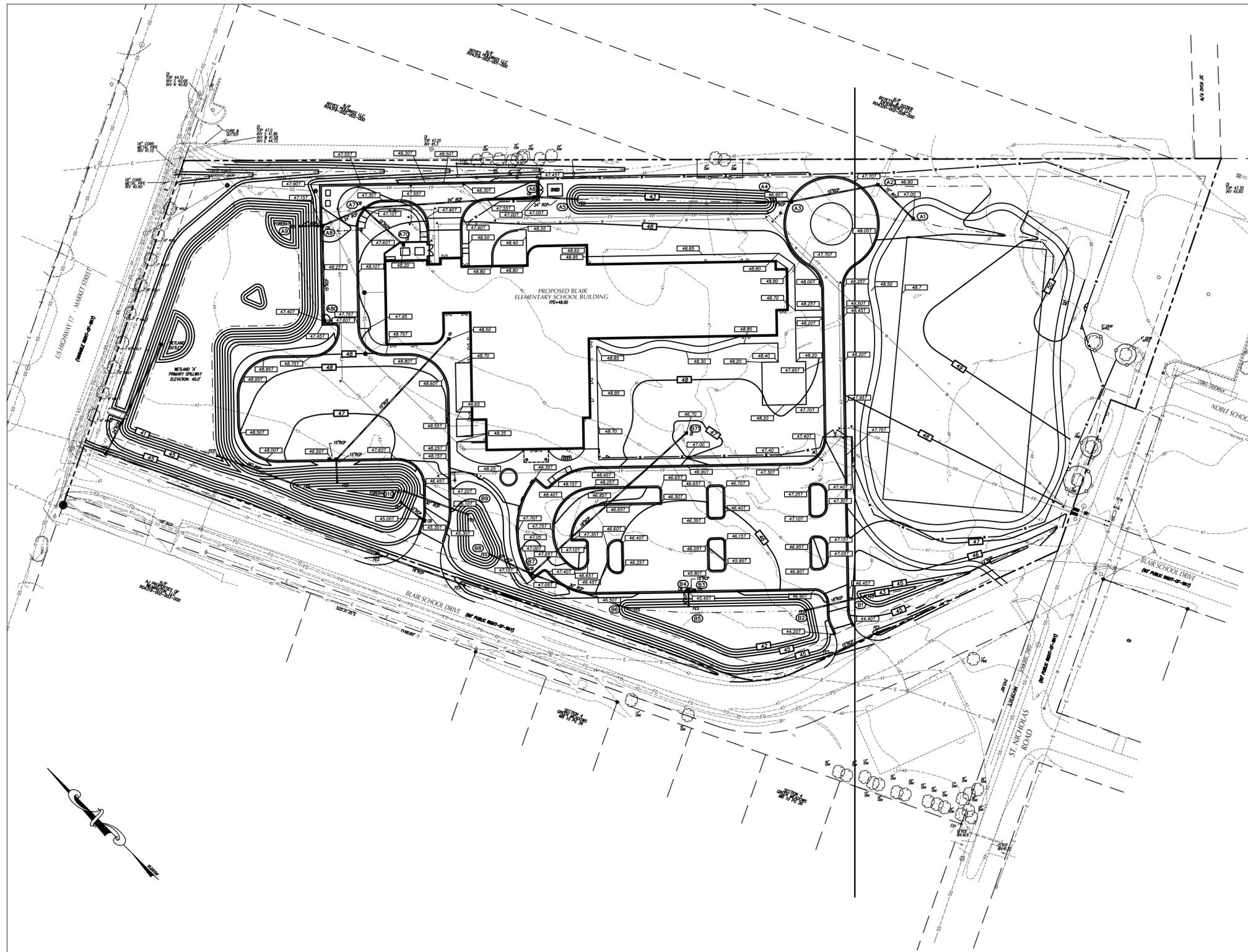
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C2.1

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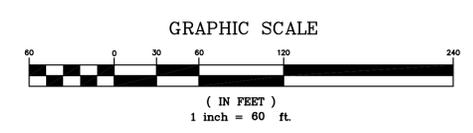
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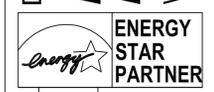
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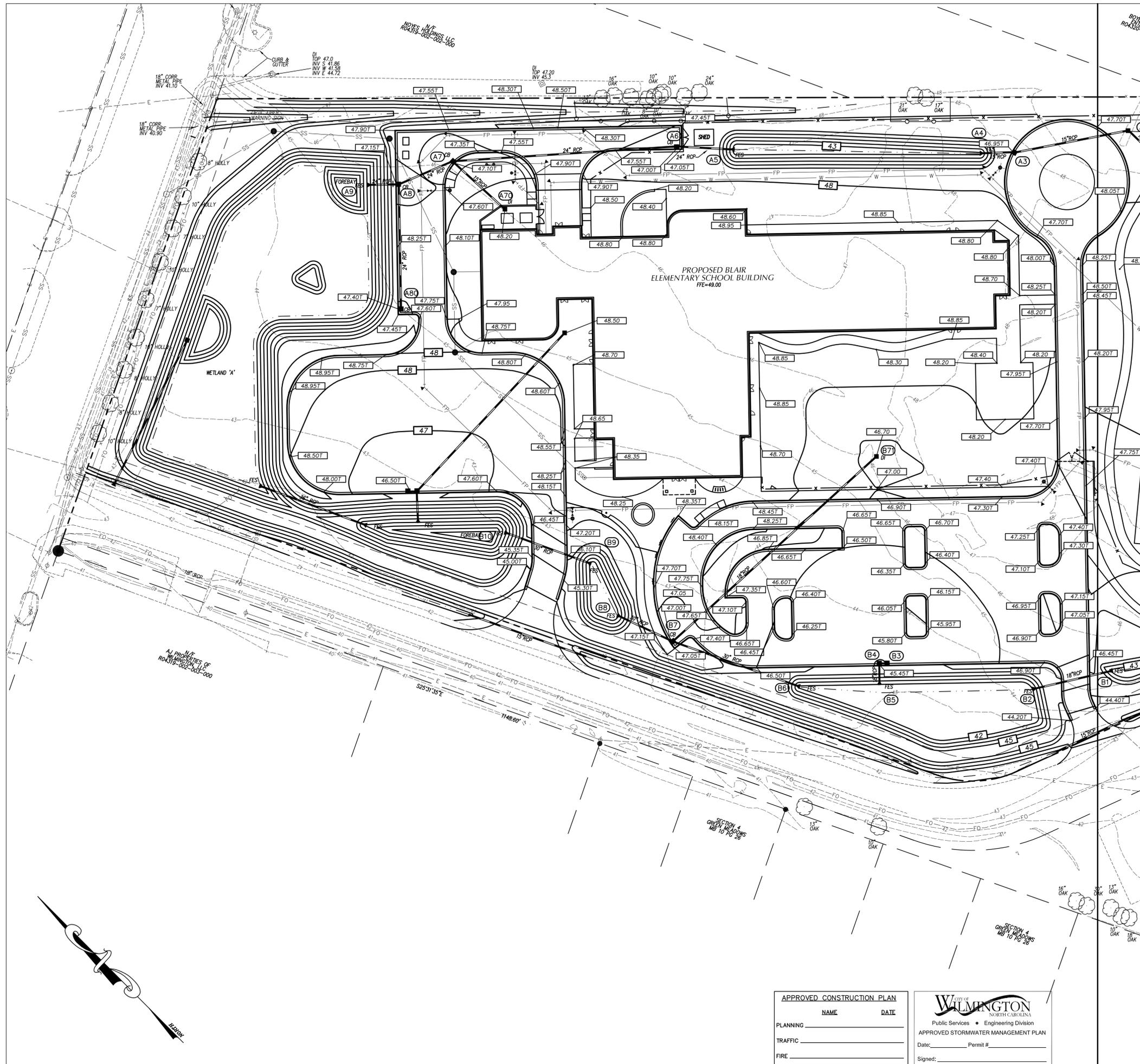
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**OVERALL SITE
 GRADING PLAN**

C3.0



GRADING LEGEND

- EXISTING CONTOURS
- FINAL CONTOURS
- 270.4' EXISTING SURVEY SPOT ELEVATION
- 270.50' PROPOSED TOP OF CURB SPOT ELEVATION
- 270.50 PROPOSED GROUND/PAVEMENT ELEVATION
- (29) STORM STRUCTURE NUMBER
- EXISTING STORM DRAIN PIPE
- PROPOSED STORM DRAIN PIPE
- TREE PROTECTION FENCE SEE DETAIL SHEET 07.1
- CONSTRUCTION LIMITS

- ### GRADING NOTES
1. ALL SPOT ELEVATIONS INDICATED AT CURB AND GUTTER ARE TO TOP OF CURB, UNLESS OTHERWISE SHOWN.
 2. TOTAL DENUDED AREA = ____ AC.
 3. CONTRACTOR SHALL ADJUST ALL EXISTING VAULTS, MANHOLES, STORM DRAIN STRUCTURES, CLEANOUTS, ETC. AS NEEDED TO MATCH FINISH GRADE.
 4. ALL BACKFILL, COMPACTION, SOILS TESTING, ETC. SHALL BE PERFORMED BY THE OWNERS INDEPENDENT TESTING LABORATORY. (SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION)
 5. ALL STORM DRAIN PIPES SHALL BE PROTECTED WITH STONE FILTER PROTECTION AFTER STOPPAGE OF WORK EACH DAY.
 6. EXISTING VEGETATION WITHIN TREE PROTECTION AREAS SHALL REMAIN UNDISTURBED, UNLESS NOTED OTHERWISE.
 7. THE GRADING CONTRACTOR SHALL COMPLY WITH ALL STATE CODES IN OBSERVING EROSION CONTROL MEASURES BOTH ON AND OFF-SITE.
 8. THE GRADING CONTRACTOR SHALL MAINTAIN ALL EROSION CONTROL DEVICES AFTER EACH RAINFALL EVENT OR AS DIRECTED BY STATE AUTHORITIES OR THE ARCHITECT.
 9. THE GRADING CONTRACTOR SHALL BE RESPONSIBLE FOR OFF-SITE DISPOSAL OF ALL CLEARING AND GRADING WASTE MATERIALS GENERATED DURING CONSTRUCTION AND FOR OBTAINING ALL APPLICABLE PERMITS FOR OFF-SITE STOCKPILES AND/OR WASTE AREAS.
 10. ALL ROOF DRAINS SHALL BE 6" PVC (SCH 40) @ 1.04% MIN. SLOPE UNLESS NOTED OTHERWISE. ROOF DRAINS SHALL BE DIP WHEN COVER IS LESS THAN 12 INCHES. PROVIDE ALL NECESSARY FITTINGS REQUIRED FOR INSTALLATION.

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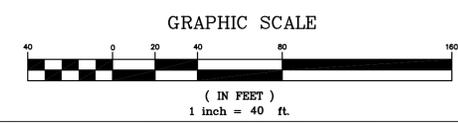
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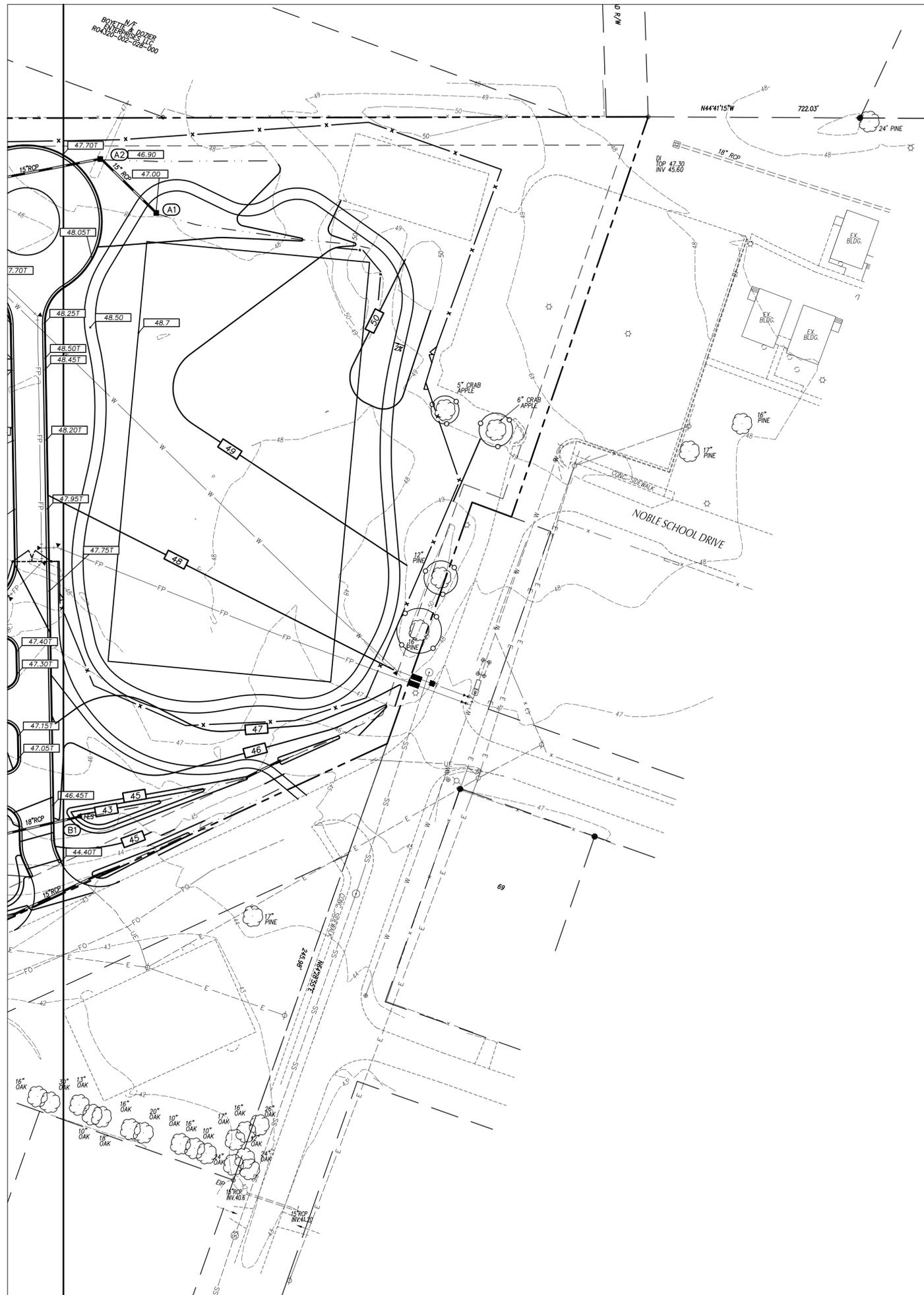
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**SITE GRADING
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C3.1



GRADING LEGEND

- EXISTING CONTOURS
- FINAL CONTOURS
- 270.4' EXISTING SURVEY SPOT ELEVATION
- 270.50T PROPOSED TOP OF CURB SPOT ELEVATION
- 270.50 PROPOSED GROUND/PAVEMENT ELEVATION
- (29) STORM STRUCTURE NUMBER
- EXISTING STORM DRAIN PIPE
- PROPOSED STORM DRAIN PIPE
- TREE PROTECTION FENCE SEE DETAIL SHEET 07.1
- CONSTRUCTION LIMITS

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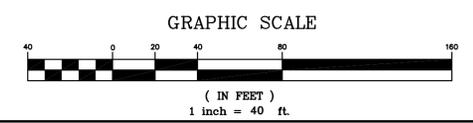
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**SITE GRADING
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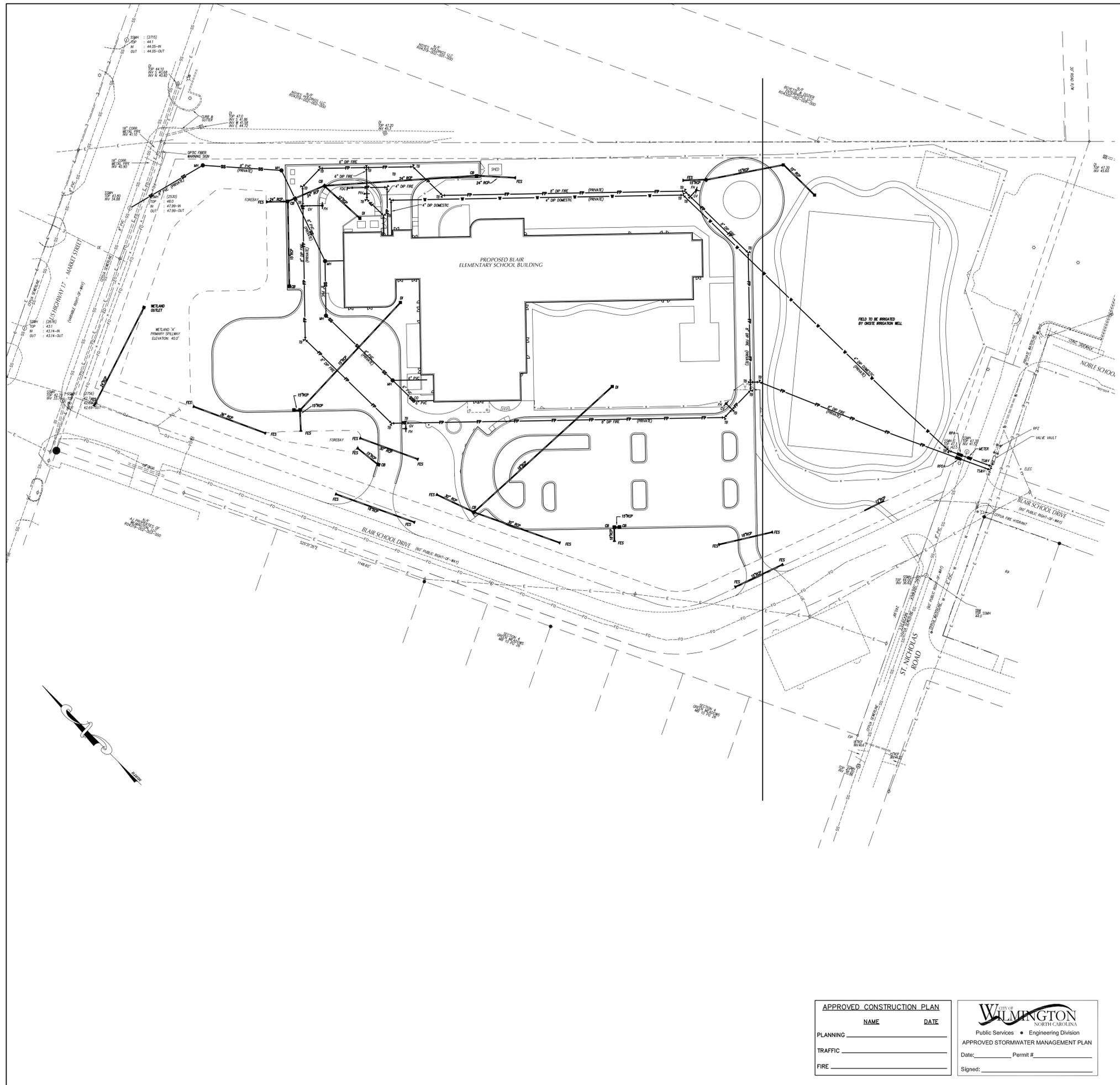
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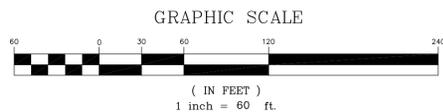
**OVERALL
 SITE UTILITY
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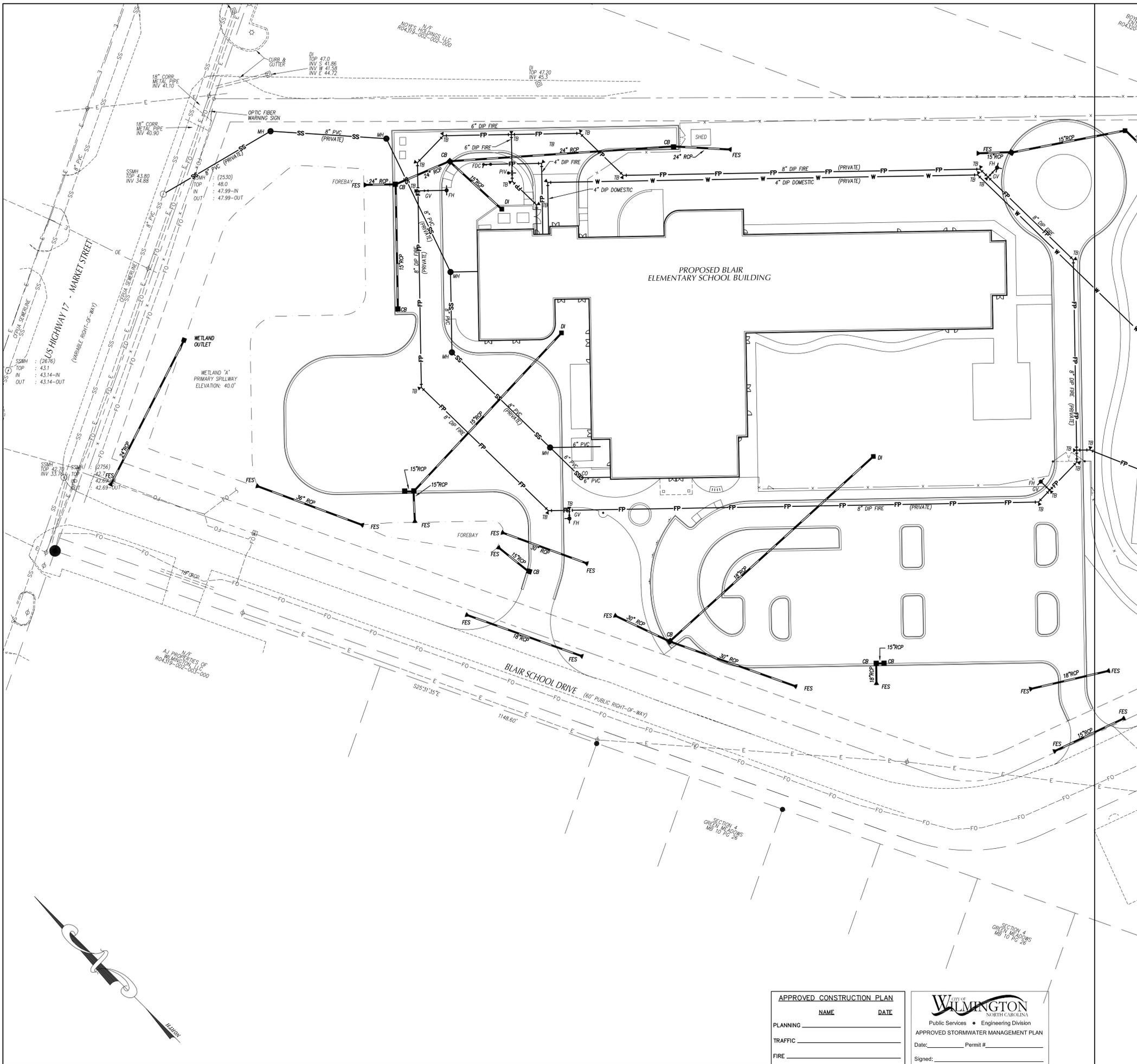
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UTILITY LEGEND

	EXISTING	PROPOSED
OVERHEAD ELECTRICAL	--- E ---	— E —
UNDERGROUND ELECTRICAL	--- UE ---	— UE —
GAS	--- G ---	— G —
SANITARY SEWER	--- SS ---	— SS —
TELEPHONE	--- T ---	— T —
UNDERGROUND TELEPHONE	--- UT ---	— UT —
WATER	--- W ---	— W —
FIRE PROTECTION	--- FP ---	— FP —
FORCE MAIN	--- FM ---	— FM —
CHILLED WATER	--- CW ---	— CW —
FOUNDATION DRAIN	--- FD ---	— FD —
FIBER OPTIC	--- FO ---	— FO —
ROOF DRAIN	--- RD ---	— RD —
STORM DRAIN	---	---
LIGHT POLE	LP	*
UTILITY POLE	UP	*
MANHOLE	MH	●
CLEAN OUT	CO	●
DROP INLET, CATCH BASIN	DI, CB	□
FIRE HYDRANT	FH	+
WATER VALVE	WV	+
TELEPHONE PEDESTAL	TP	+
COMMUNICATION BOX	CB	+
SANITARY SEWER STRUCTURE I.D.		3
STORM SEWER STRUCTURE I.D.		8

UTILITY NOTES

- INSTALL WATERMANS WITH A COVER OF NO LESS THAN 4-FT. INSTALL WATER SERVICES WITH NO LESS THAN 18-IN OF COVER TO SUBGRADE.
- INSTALL SEWER MAINS WITH A COVER OF NO LESS THAN 3-FT TO FINISHED GRADE UNLESS DUCTILE IRON PIPE IS USED. INSTALL SEWER SERVICES WITH NO LESS THAN 18-IN OF COVER TO SUBGRADE.
- INSTALL ALL UTILITIES TO PROVIDE REQUIRED CLEARANCES AS INDICATED IN THE SPECIFICATIONS.
- WATERLINES AND SEWER MAINS SHALL BE INSTALLED WITH A MINIMUM HORIZONTAL CLEARANCE OF 10-FT.
- WATER AND SEWER MAINS SHALL BE INSTALLED WITH A MINIMUM VERTICAL CLEARANCE OF 12-IN TO STORM DRAINAGE PIPES.
- COORDINATE AND SCHEDULE INSTALLATION OF ALL UTILITIES WITH OTHER PRIME CONTRACTORS, UTILITY COMPANIES AND OTHER TRADES INCLUDING BUT NOT LIMITED TO: NATURAL GAS, ELECTRICITY, TELEPHONE AND CATV.
- VERIFY EXISTING CONDITIONS AND CONNECTIONS TO EXISTING UTILITIES PRIOR TO CONSTRUCTION. NOTIFY ARCHITECT IF ANY DISCREPANCIES ARE DISCOVERED.
- CONTRACTOR IS RESPONSIBLE FOR ALL DAMAGES DURING CONSTRUCTION AND SHALL MAKE REPAIRS AT NO EXPENSE TO THE OWNER.
- ALL CONSTRUCTION SHALL COMPLY WITH ALL APPLICABLE NCSBC AND OSHA REQUIREMENTS.
- THE CONTRACTOR SHALL PROVIDE AN AS-BUILT SURVEY OF ALL UTILITY AND STORM DRAINAGE IMPROVEMENTS FOLLOWING CONSTRUCTION.
- CONTRACTOR SHALL PHASE DEMOLITION AND NEW CONSTRUCTION TO ENSURE UNINTERRUPTED ACCESS AND UTILITY SERVICE TO ADJACENT FACILITIES. COORDINATE SHORT-TERM, OFF-HOUR, TEMPORARY SHUT-DOWNS WITH THE OWNER.
- SEE GENERAL NOTES ON EXISTING CONDITIONS AND DEMOLITION PLAN FOR REQUIREMENTS FOR REMOVAL AND PATCHING OF PAVEMENT FOR UTILITY INSTALLATION.
- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH CITY OF WILMINGTON STANDARDS AND SPECIFICATIONS.
- ALL ROOF DRAINS SHALL BE 6" PVC @ 1.04% MIN. SLOPE UNLESS INDICATED OTHERWISE. USE DUCTILE IRON WHEN COVER IS LESS THAN 24-IN.
- ALL SANITARY SEWER SERVICES SHALL BE 4" PVC (SCH 40) @ 1.04% MIN. SLOPE UNLESS INDICATED OTHERWISE. USE DUCTILE IRON WHEN COVER IS LESS THAN 24-IN.
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 A. UNDERGROUND PIPING PERMIT (FIRE LINE (S)).
 B. SPRINKLER PERMIT.
 C. FIRE ALARM PERMIT.
 D. KITCHEN HOOD FIRE PROTECTION PERMIT.
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- CONTACT THE NC ONE CALL CENTER PRIOR TO ANY DIGGING. 1-800-632-4949.
- PROJECT SHALL COMPLY WITH CITY OF WILMINGTON CROSS CONNECTION CONTROL REQUIREMENTS. WATER METERS CANNOT BE RELEASED UNTIL ALL REQUIREMENTS ARE MET AND THE STATE HAS GIVEN THEIR FINAL APPROVAL. CALL 910-343-3010 FOR INFORMATION.
- ANY BACKFLOW PREVENTION DEVICES REQUIRED BY THE CITY WILL NEED TO BE ON THE LIST OF APPROVED DEVICES BY USFCFCCR OR ASSE.

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 PE: C-1096

DESIGN DEVELOPMENT
BLAIR ELEMENTARY SCHOOL
NEW HANOVER COUNTY SCHOOLS
 WILMINGTON, NORTH CAROLINA

ENERGY STAR PARTNER

ID	DATE	DESCRIPTION
	06/21/2016	ISSUE DATE:
		PROJECT #: 01504.000
		CAD TECH.: xxx
		CAD TECH.:
		CHECKED BY:

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SITE UTILITY PLAN

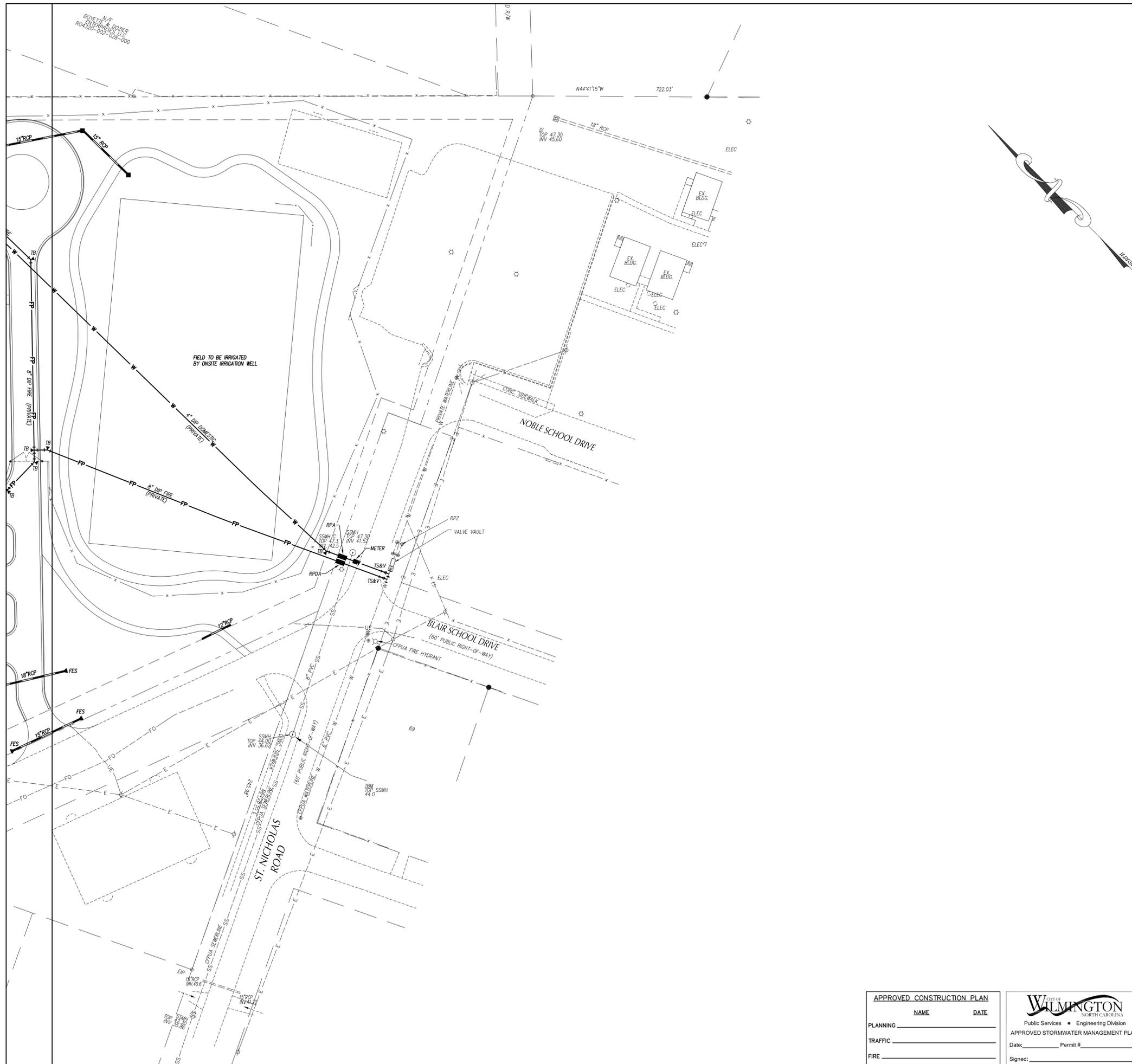
APPROVED CONSTRUCTION PLAN

NAME	DATE
PLANNING _____	_____
TRAFFIC _____	_____
FIRE _____	_____

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



C5.1



UTILITY LEGEND

	EXISTING	PROPOSED
OVERHEAD ELECTRICAL	--- E ---	--- E ---
UNDERGROUND ELECTRICAL	--- UE ---	--- UE ---
GAS	--- G ---	--- G ---
SANITARY SEWER	--- SS ---	--- SS ---
TELEPHONE	--- T ---	--- T ---
UNDERGROUND TELEPHONE	--- UT ---	--- UT ---
WATER	--- W ---	--- W ---
FIRE PROTECTION	--- FP ---	--- FP ---
FORCE MAIN	--- FM ---	--- FM ---
CHILLED WATER	--- CW ---	--- CW ---
FOUNDATION DRAIN	--- FD ---	--- FD ---
FIBER OPTIC	--- FO ---	--- FO ---
ROOF DRAIN	--- RD ---	--- RD ---
STORM DRAIN	--- SD ---	--- SD ---
LIGHT POLE	☆ LP	☆ LP
UTILITY POLE	⊙ UP	⊙ UP
MANHOLE	⊙ MH	⊙ MH
CLEAN OUT	⊙ CO	⊙ CO
DROP INLET, CATCH BASIN	□ DI, CB	□ DI, CB
FIRE HYDRANT	⊙ FH	⊙ FH
WATER VALVE	⊙ WV	⊙ WV
TELEPHONE PEDESTAL	⊙ TP	⊙ TP
COMMUNICATION BOX	⊙ CB	⊙ CB
SANITARY SEWER STRUCTURE I.D.	3	3
STORM SEWER STRUCTURE I.D.	8	8

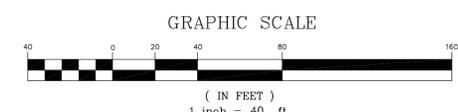
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19. ANY BACKFLOW PREVENTION DEVICES REQUIRED BY THE CITY WILL NEED TO BE ON THE LIST OF APPROVED DEVICES BY USFCFCHR OR ASSE.

APPROVED CONSTRUCTION PLAN

NAME	DATE
PLANNING _____	_____
TRAFFIC _____	_____
FIRE _____	_____

City of Wilmington
Public Services • Engineering Division
APPROVED STORMWATER MANAGEMENT PLAN
Date: _____ Permit # _____
Signed: _____



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DESIGN DEVELOPMENT
**BLAIR ELEMENTARY SCHOOLS
NEW HANOVER COUNTY SCHOOLS**
WILMINGTON, NORTH CAROLINA

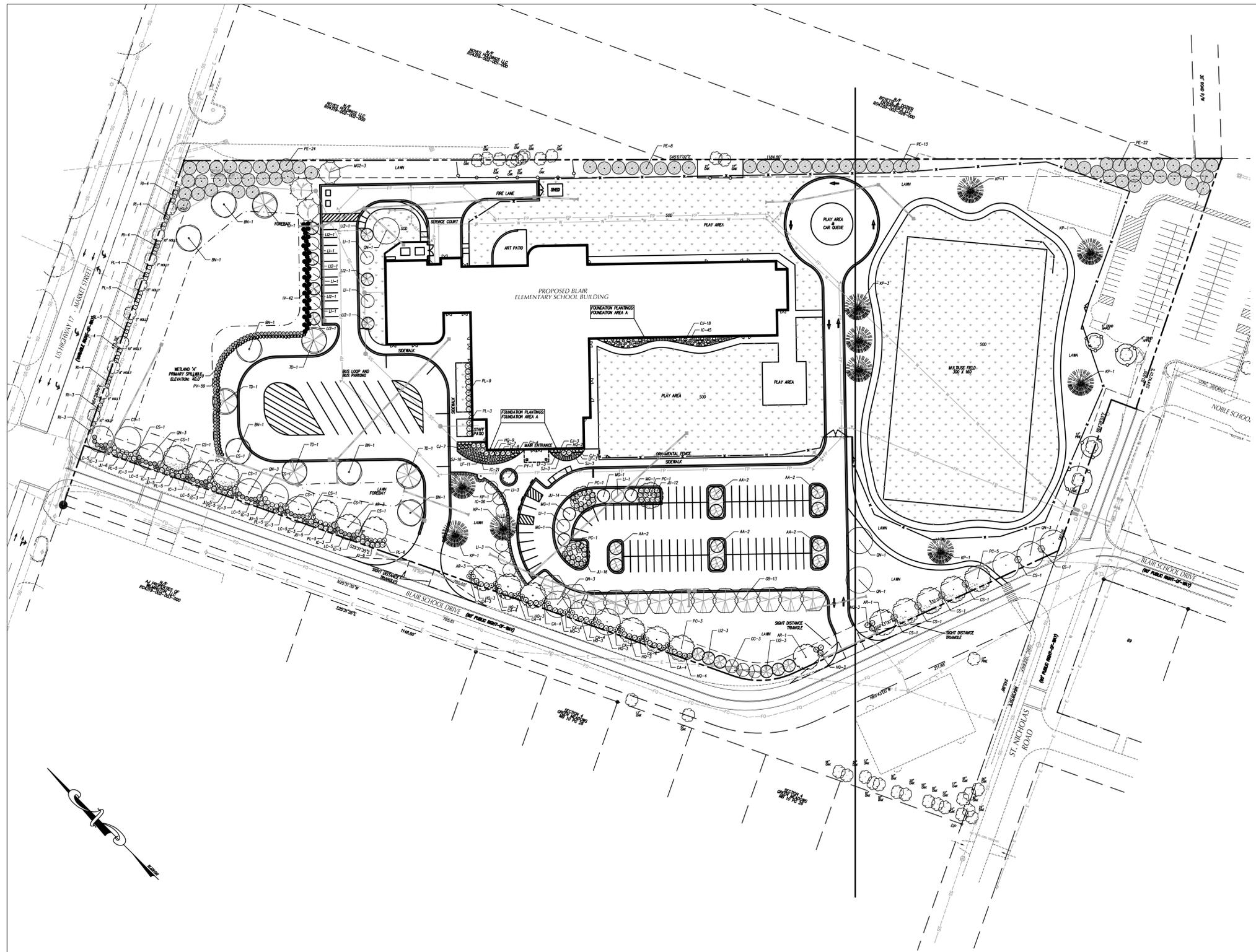
ENERGY STAR PARTNER

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		CAD TECH.: xxx
		CHECKED BY:

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SITE UTILITY PLAN

C5.2



LANDSCAPE CALCULATIONS

STREET YARD REQUIREMENTS

STREET YARD FACTOR = 18
 MINIMUM STANDARD: 1 CANOPY TREE (3" CAL. MIN.) - 3 UNDERST. IF PWR. LINE
 6 SHRUBS (12" HT. MIN.) OR
 6 SHRUBS (36" HT. MIN. IF ADJ. TO A PARKING AREA)
 PER 600 SQ. FT. OF STREET YARD

PRIMARY STREET YARD: BLAIR SCHOOL DRIVE - 9'-27" WIDTH (TO LIMITS OF WORK)
 SQUARE FEET REQUIRED = 18(188.58 LF x 91.5 LF) = 19,785 SF
 MINIMUM STANDARD REQUIRED: 33 CANOPY TREES, 198 SHRUBS

PROVIDED: 30 NEW CANOPY TREES
 9 UNDERSTORY TREES
 238 NEW SHRUBS

SECONDARY STREET YARD: MARKET STREET - 9'-27" WIDTH (TO LIMITS OF WORK)
 SQUARE FEET REQUIRED = 18(344 LF) / 2 = 3,096 SF
 MINIMUM STANDARD REQUIRED: 5 CANOPY TREES
 30 SHRUBS

PROVIDED: 9 EXISTING CANOPY TREES
 40 SHRUBS

FOUNDATION PLANTING REQUIREMENTS (adjacent to parking or internal drive aisle)

REQUIREMENT = AREA OF BUILDING FACE X 12%

FOUNDATION PLANTING: AREA A
 BUILDING FACE = 328 FT.
 BUILDING HEIGHT = 33 FT.
 PLANTING AREA REQUIRED = 1,298 SQ. FT.
 PLANTING AREA PROVIDED = 2,516 SQ. FT.

PARKING AREA PLANTING REQUIREMENTS

PARKING AREA PERIMETER PLANTINGS:
 REQUIREMENT: 10' MINIMUM PLANTED STRIP ADJACENT TO ROAD RIGHT-OF-WAY.
 MIN. CAL. 3" TREE EVERY 16' TO 27'

PARKING AREA INTERIOR PLANTINGS:
 REQUIREMENT: INTERIOR LANDSCAPING MUST EQUAL 8% OF TOTAL PARKING,
 LOADING, AND DRIVE AISLE, AND PEDESTRIAN USE AREA.
 MIN. CAL. 2" TREE PER 144 SQ. FT. OF PARKING ISLAND, NO LESS THAN 12' WIDE
 ISLAND MUST HAVE GROUNDCOVER
 NO PARKING SPACE MORE THAN 120 FEET AWAY FROM AN ISLAND
 75% SHADE TREES

15 TREES 2" CALIPER OR GREATER PER ACRE OF DISTURBED LAND
 ACRES DISTURBED: 14 CREDITS REQUIRED: 210 CREDITS
 TREES PROVIDED: 185 TREES/185 CREDITS

CREDITS FOR EXISTING TREES:

SIZE	QTY.	CREDIT VALUE	TOTAL
2-5" CALIPER	1	1	1
6-11"	12	2	24
12-17"	3	3	9
18-23"	N/A	4	N/A
>24"	N/A	DBH/6 (178')	N/A
TOTAL:			34

TOTAL CREDITS PROVIDED: 219

NOT FOR CONSTRUCTION FOR REVIEW ONLY



DESIGN DEVELOPMENT

BLAIR ELEMENTARY SCHOOL

NEW HANOVER COUNTY SCHOOLS

WILMINGTON, NORTH CAROLINA



ID	DATE	DESCRIPTION

PROJECT #: 01504.000
 CAD TECH.: xxx
 CAD TECH.:
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OVERALL LANDSCAPE PLAN

C6.0

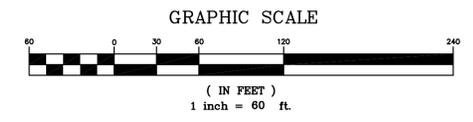
APPROVED CONSTRUCTION PLAN

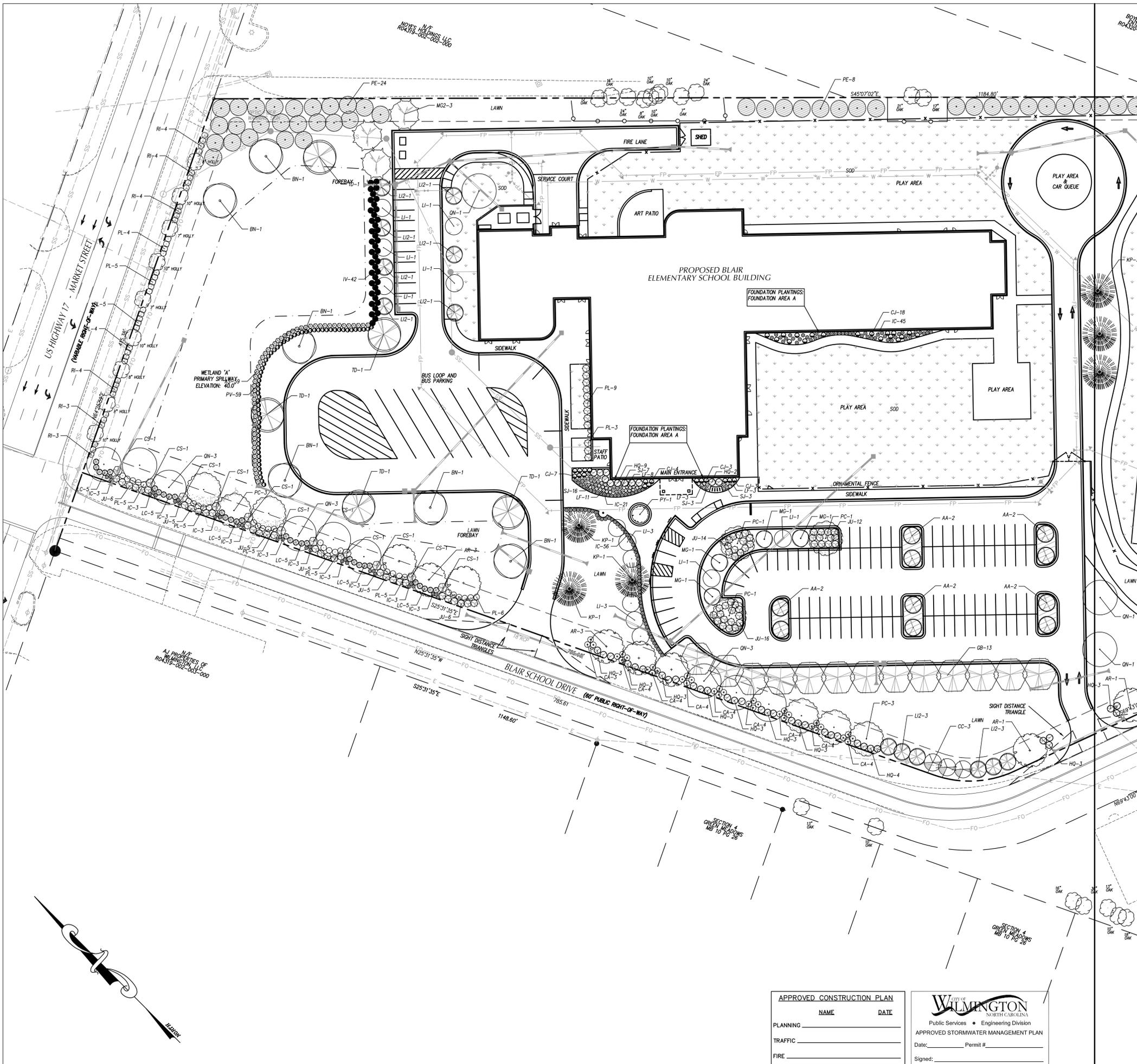
NAME	DATE
PLANNING	
TRAFFIC	
FIRE	

CITY OF WILMINGTON
 NORTH CAROLINA
 Public Services • Engineering Division

APPROVED STORMWATER MANAGEMENT PLAN

Date: _____ Permit # _____
 Signed: _____





LANDSCAPE NOTES

1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH ALL CITY OF WILMINGTON AND/OR NC DOT STANDARDS AND SPECIFICATIONS.
2. LOCATE ALL EXISTING UTILITIES PRIOR TO INSTALLATION OF PLANT MATERIAL. NOTIFY OWNER OF ANY DISCREPANCIES BETWEEN FIELD CONDITIONS AND THOSE SHOWN ON THE PLAN.
3. VERIFICATION OF TOTAL QUANTITIES AS SHOWN ON THE PLANT LIST SHALL BE THE RESPONSIBILITY OF THE LANDSCAPE CONTRACTOR AND THE TOTAL QUANTITIES SHALL BE AS SHOWN ON THE PLAN.
4. LAWN AREAS SHALL BE SEEDED WITH SUNSTAR/RIVERA BERMUDA GRASS 95% COVERAGE (BASED ON A PER SQUARE YARD SAMPLE) SHALL BE ATTAINED PRIOR TO FINAL INSPECTION.
5. ALL PLANT MATERIAL SHALL CONFORM WITH THE STANDARDS SET FORTH BY THE AMERICAN ASSOCIATION OF NURSERMEN AND THE WRITTEN SPECIFICATIONS.
6. PLANTING BEDS TO BE MULCHED WITH A MINIMUM OF 3" OF TRIPLE SHREDDED HARDWOOD MULCH. ALL PLANT GROUPINGS SHALL BE MULCHED AS ONE BED.
7. ESTABLISH POSITIVE DRAINAGE IN ALL PLANTING BEDS AND AWAY FROM BUILDINGS.
8. APPLY PRE-EMERGENT HERBICIDE TO ALL NEW PLANTING BEDS AT AT MANUFACTURER'S RECOMMENDED RATE PRIOR TO INSTALLATION OF MULCH.
9. DO NOT INSTALL PLANT MATERIAL IN IMPERVIOUS SOILS, (i.e. HOLES WHICH, WHEN FILLED WITH WATER, DO NOT COMPLETELY DRAIN WITHIN TWO HOURS).
10. ALL SODDED AREAS SHALL BE TIFWAY-419 BERMUDA.
11. ANY TREE WRAP SHALL BE REMOVED IMMEDIATELY AFTER INSTALLATION.
12. SEE SPECIFICATIONS REGARDING WARRANTY/MAINTENANCE REQUIREMENTS FOR ALL PLANTS, SOD, AND LAWN SEEDING.
13. DEAD OR DETERIORATING SCREENING SHALL BE REPLACED WITHIN SIX MONTHS OR DURING NEXT PLANTING SEASON.
14. ALL PROPOSED VEGETATION WITHIN SIGHT TRIANGLES SHALL NOT INTERFERE WITH CLEAR VISUAL SIGHT LINES FROM 30' - 10'.

PLANT SCHEDULE

KEY	QTY	PLANT NAME	SIZE	REMARKS
CANOPY AND UNDERSTORY TREES				
AA	10	DOWNY SERVICEBERRY <i>Ammannia arbores</i>	6' MIN. HT. B&B 1 1/2" CAL.	3-5 TRUNKS MATCHED SPECIMENS
AR	8	'OCTOBER GLORY' RED MAPLE <i>Acer rubrum 'October Glory'</i>	2"-2 1/2" CAL. 12"-14" HT.	B&B, STRAIGHT TRUNK FULL CROWN
BN	6	RIVER BIRCH <i>Betula nigra 'Dura Heat'</i>	2"-2 1/2" CAL. 12"-14" HT.	B&B, STRAIGHT TRUNK FULL CROWN
CC	3	REDBUD <i>Cercis canadensis 'Forest Pansy'</i>	7'-8" HT. B&B 1-1/2" CAL.	STRAIGHT TRUNK MATCHED SPECIMENS
GB	13	AUTUMN GOLD GINKGO (MALE ONLY) <i>Ginkgo biloba 'Autumn Gold'</i>	2"-2 1/2" CAL. 10"-12" HT.	B&B, STRAIGHT TRUNK FULL CROWN
KP	10	GOLDEN RAIN TREE <i>Koeleruteria paniculata</i>	1.5" CAL. MIN. 6' HT.	FULL CROWN, B&B MATCHED SPECIMENS
LI	13	CHEROKEE CRAPE MYRTLE <i>Lagerstroemia indica 'Cherokee'</i>	3-5 TRUNKS 7'-8" HT.	FULL CROWN
LI2	13	NATCHEZ CRAPE MYRTLE <i>Lagerstroemia l. x F. 'Natchez'</i>	3-5 TRUNKS 6' HT.	B&B, FULL CROWN
MG	4	LITTLE GEM MAGNOLIA <i>Magnolia grandiflora 'Little Gem'</i>	1"-1 1/2" CAL. 8'-10" HT.	B&B, STRAIGHT TRUNK FULL TO GROUND
MG2	3	BRACKEN'S BROWN BEAUTY MAGNOLIA <i>Magnolia grandiflora 'Bracken's Brown Beauty'</i>	8' MIN. HT. B&B	STRAIGHT TRUNK MATCHED SPECIMENS
ON	15	NUTTALL OAK <i>Quercus Nuttallii</i>	2"-2 1/2" CAL. 12"-14" HT.	B&B, STRAIGHT TRUNK FULL CROWN
PC	14	CHINESE PISTACHIO <i>Pistacia chinensis</i>	2"-2 1/2" CAL. 12"-14" HT.	B&B, STRAIGHT TRUNK FULL CROWN
PE	67	SHORTLEAF PINE <i>Pinus strobus</i>	6' MIN. HT. B&B	LOOSELY STAKED STRAIGHT TRUNK
PY	1	YOSHINO CHERRY <i>Prunus x yedoensis 'Yoshino'</i>	6' MIN. HT. B&B 1 1/2" CAL.	STRAIGHT TRUNK MATCHED SPECIMENS
TD	5	BALD CYPRESS <i>Taxodium distichum</i>	2"-2 1/2" CAL. 10"-12" HT.	B&B, STRAIGHT TRUNK FULL CROWN
SHRUBS AND GROUNDCOVERS				
AS	59	LITTLE BLUESTEM <i>Andropogon scoparium 'The Blues'</i>	18"-24" HT./SPR. CONT.	CONT., FULL 4.0' O.C.
CA	35	BEAUTY BERRY <i>Callicarpa americana</i>	18"-24" HT. MIN 3-GAL. CONT.	FULL PLANTS MATCHING. 5' O.C.
CJ	35	JAPANESE CEDAR <i>Cryptomeria japonica 'Glabosa Nana'</i>	12" HT.	3 GAL. CONT., FULL SPACE 5' O.C.
CS	17	SUTSUGOKKA CAMELLIA <i>Camellia sasanqua 'Sustugokka'</i>	24"-36" HT. MIN 3-GAL. CONT.	FULL PLANTS MATCHING. 8' O.C.
IC	159	CARISSA HOLLY <i>Ilex cornuta 'Carissa'</i>	18"-24" HT. CONT.	FULL PLANTS MATCHING. 4' O.C.
HQ	38	OAKLEAF HYDRANGEA <i>Hydrangea quercifolia</i>	18"-24" HT. CONT.	FULL PLANTS MATCHING. 5' O.C.
IV	42	HENRY'S GARNET SWEETSPICE <i>Itea virginica 'Henry's Garnet'</i>	24"-30" HT. MIN 3-GAL. CONT.	FULL PLANTS MATCHING. 5' O.C.
JU	74	BLUE PACIFIC JUNIPER <i>Juniperus conferta 'Blue Pacific'</i>	15"-18" SPR. CONT.	CONT., FULL 6' O.C.
LC	30	CHINESE PRINCE FLOWER <i>Loropetalum chinense 'Ruby'</i>	24"-30" HT. MIN 3-GAL. CONT.	FULL PLANTS MATCHING. 5' O.C.
LF	25	RAINBOW LEUCOTHOE <i>Leucothoe fontaniana 'Girard's Rainbow'</i>	18"-24" HT. CONT.	FULL PLANTS MATCHING. 6' O.C.
LI	1212	BIG BLUE LIROPE <i>Liriope muscari 'Big Blue'</i>	3-5 BBS	SPACED 18" O.C.
PL	61	DWARF CHERRY LAUREL <i>Prunus laurocerasus 'Otto Luyken'</i>	18" HT./SPR. CONT.	CONT., FULL 4' O.C.
PV	59	SWITCHGRASS <i>Panicum virgatum 'Shenandoah'</i>	18"-24" HT./SPR. CONT.	CONT., FULL 4.0' O.C.
RI	22	REDBIRD INDIAN HAWTHORN <i>Rhampholapsis indica 'Redbird'</i>	18" HT./SPR. CONT.	CONT., FULL 4' O.C.
SJ	29	SPIREA <i>Spiraea japonica 'Little Princess'</i>	24" SPR.	5 GAL. CONT., FULL 5' O.C.

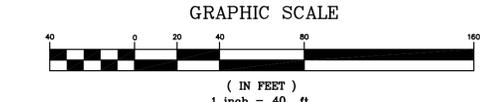
GRAPHIC SYMBOLS SUPERCEDE WRITTEN QUANTITIES WHERE DISCREPANCIES OCCUR. SEE SHEET C7.6 FOR MORE INFORMATION.

TIFWAY 419 SOD, SEE DETAIL SHEET C7.6.

A TREE REMOVAL/PRESERVATION PERMIT IS REQUIRED PRIOR TO REMOVING ANY TREES. CONTRACTOR SHALL OBTAIN & COMPLETE PERMIT. CONTACT CITY OF WILMINGTON ZONING DEPARTMENT TO OBTAIN COPY OF PERMIT. ENSURE TO PROVIDE COPY OF TREE REMOVAL CHART WITH PERMIT.

REFER TO PLAN SHEET C-6.0 FOR LANDSCAPE CALCULATIONS.

TREE REMOVAL CHART		TREE REMOVAL CHART (CONT'D)	
SIZE/TYPE	QTY.	SIZE/TYPE	QTY.
12" BIRCH	1	15" OAK	1
10" BRAD PEAR	1	18" OAK	6
11" BRAD PEAR	2	20" OAK	2
12" BRAD PEAR	1	24" OAK	2
13" BRAD PEAR	1	5" PEAR	1
7" CHERRY	1	7" PEAR	2
8" CHERRY	4	9" PEAR	1
4" CRAB	1	14" PINE	1
5" CRAB	1	24" SYCAMORE	3
2" CRAPE	5		
3" CRAPE	6		
4" CRAPE	10		
5" CRAPE	12		
6" HOLLY	1		
8" HOLLY	1		
10" OAK	3		
11" OAK	1		
12" OAK	4		
TOTAL:		77	



APPROVED CONSTRUCTION PLAN

NAME	DATE
PLANNING _____	_____
TRAFFIC _____	_____
FIRE _____	_____

City of WILMINGTON
Public Services • Engineering Division
APPROVED STORMWATER MANAGEMENT PLAN
Date: _____ Permit # _____
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DESIGN DEVELOPMENT

**BLAIR ELEMENTARY SCHOOL
NEW HANOVER COUNTY SCHOOLS**

WILMINGTON, NORTH CAROLINA

**ENERGY
STAR
PARTNER**

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CHECKED BY:

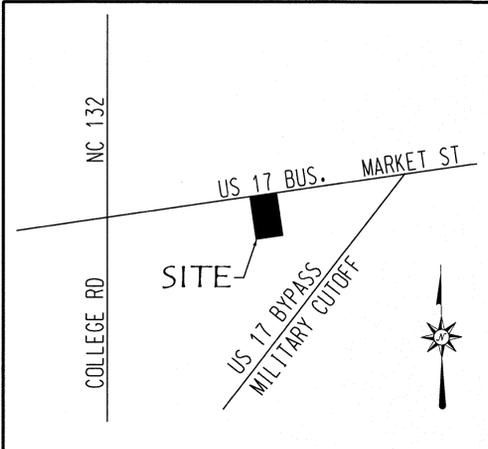
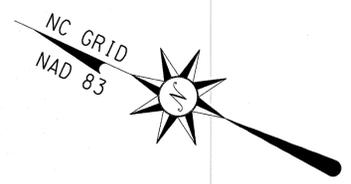
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LANDSCAPE
PLAN

C6.1

I, JAMES H. FENTRESS, JR., HEREBY CERTIFY THAT THIS TOPOGRAPHIC MAP WAS DRAWN UNDER MY DIRECTION AND SUPERVISION FROM AN ACTUAL TOPOGRAPHIC SURVEY MADE UNDER MY DIRECTION AND SUPERVISION. ALL FEATURES SHOWN ARE THOSE VISIBLE AT TIME OF SURVEY. ORIGINAL SURVEY 2007 UPDATED 2016.

WITNESS MY HAND AND SEAL THIS DAY OF NOV 2016.



VICINITY MAP
NOT TO SCALE

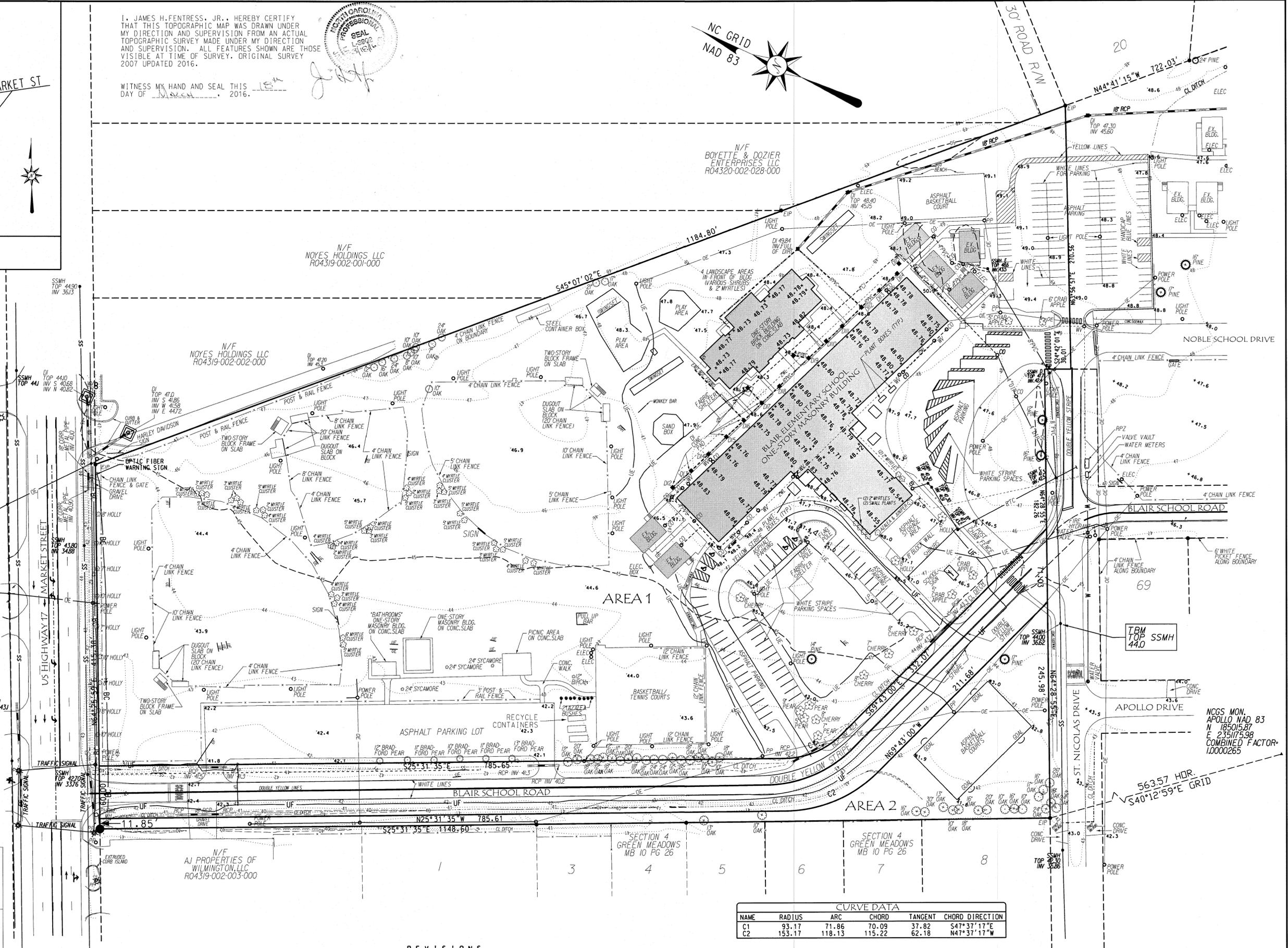
LEGEND

- BC — BURIED COMMUNICATION CONDUIT
- UE — UNDERGROUND ELECTRIC
- OE — OVERHEAD ELECTRIC
- UT — UNDERGROUND TELEPHONE
- UC — UNDERGROUND CATV
- SD — STORM DRAIN
- WM — WATER METER
- PP — POWER POLE
- CD — CLEAN OUT
- ELEC — ELECTRIC
- WV — WATER VALVE
- SSMH — SANITARY SEWER MANHOLE

NOTE:
UNDERGROUND UTILITIES ARE AS IDENTIFIED BY UTILITY SERVICES AND INFERRED FROM AT GRADE APPURTENANCES. UTILITIES AND MATERIAL SHOWN BY DASHED LINE ARE AS COMPILED FROM RECORD DRAWINGS.

FLOODPLAIN NOTE:
THIS PROPERTY IS NOT LOCATED WITHIN THE SPECIAL FLOOD HAZARD AREA AS SHOWN IN COMMUNITY PANEL 3720 3188 00J.

DROP INLET DATA		
INLET #	TOP	INVERT
DI 2	47.70	46.50
DI 3	47.90	46.35
DI 4	48.20	46.88
DI 5	48.00	46.60
DI 6	47.90	46.58
DI 7	48.10	46.46
DI 8	48.00	46.78
DI 9	48.00	46.54
DI 10	47.90	
DI 11	48.10	46.52
DI 12	48.00	46.27
DI 13	48.10	46.55
DI 14	48.10	46.70
DI 15	47.80	46.44
DI 16	46.80	44.59



BLAIR ELEMENTARY SCHOOL TRACT
AREA 1 = 12.84 ACRES
AREA 2 = 0.95 ACRES
TOTAL = 13.79 ACRES

CURVE DATA					
NAME	RADIUS	ARC	CHORD	TANGENT	CHORD DIRECTION
C1	93.17	71.86	70.09	37.82	S47°37'17"E
C2	153.17	118.13	115.22	62.18	N47°37'17"W

REVISIONS			
BY	NO.	DATE	DESCRIPTION

DESIGNED: DATE: 2/26/16
DRAWN: GAG SCALE: 1" = 50'
APPROVED: JHF SHEET 1 OF 1

OWNER: NEW HANOVER COUNTY SCHOOLS
ADDRESS: 6410 CAROLINA BEACH RD
WILMINGTON, NC 28412
PHONE: (910) 254-4350

STROUD ENGINEERING, P.A.
102-D CINEMA DRIVE
WILMINGTON, NORTH CAROLINA 28403
(910) 815-0775 (910) 815-0593 FAX

TOPOGRAPHICAL SURVEY FOR
BLAIR ELEMENTARY SCHOOL
CITY OF WILMINGTON NEW HANOVER COUNTY NORTH CAROLINA

