

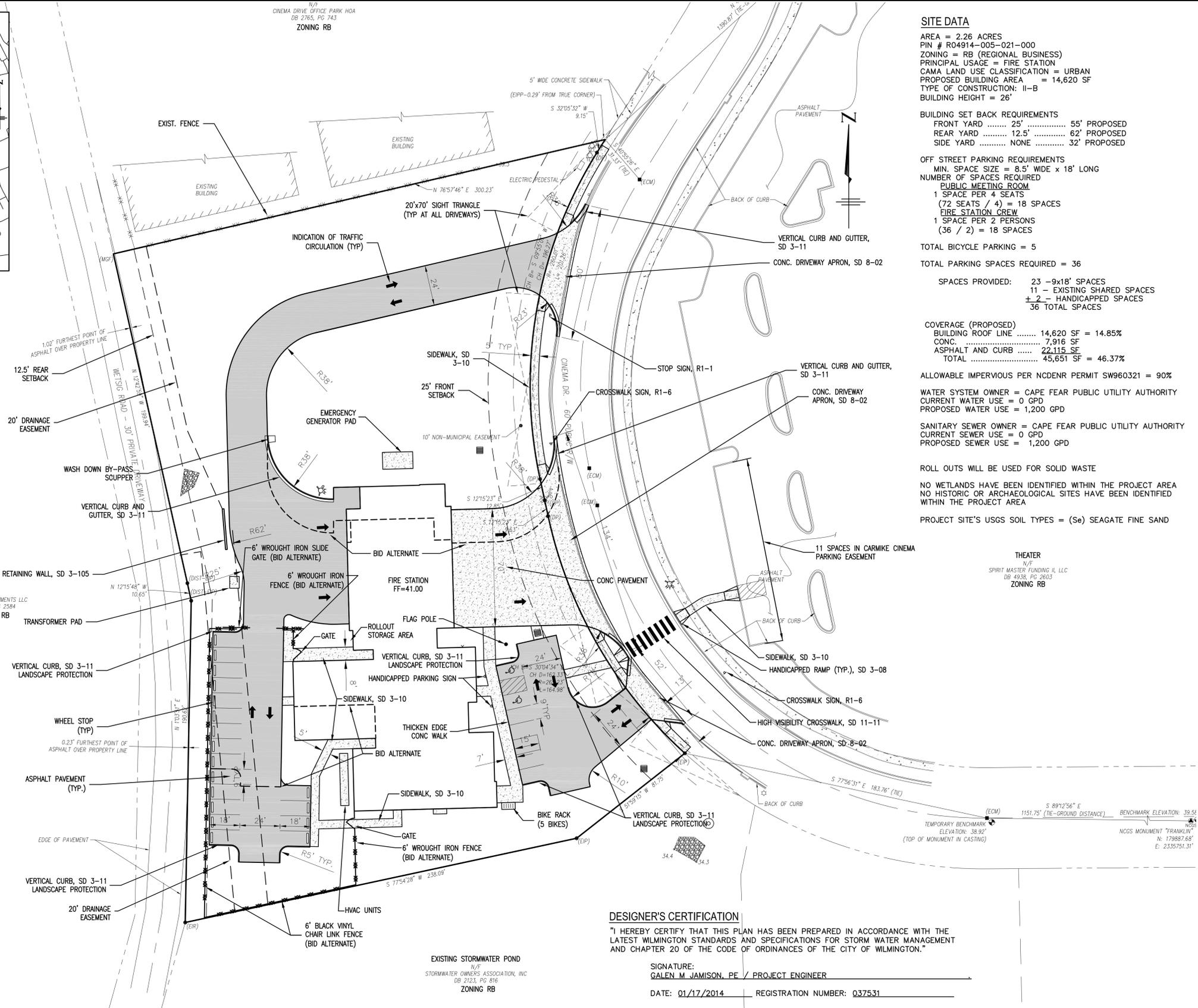
VICINITY MAP
NTS

GENERAL NOTES

1. THE CITY HAS MADE ALL POSSIBLE ATTEMPTS TO LOCATE EXISTING UTILITIES. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD-VERIFY THE LOCATIONS OF ALL UTILITIES PRIOR TO CONSTRUCTION BY OBSERVATION, ELECTRONIC DEVICES, HAND DIGGING AND PERSONAL CONTACT WITH THE UTILITY COMPANIES. NOTIFY THE CITY OF ANY CONFLICTS. ANY DAMAGE TO UTILITIES INCURRED DURING CONSTRUCTION IS THE RESPONSIBILITY OF THE CONTRACTOR AND WILL BE REPAIRED AT THE CONTRACTOR'S EXPENSE. CONTRACTOR IS RESPONSIBLE FOR FINES OR LOST SERVICE REVENUE. CONTACT "CAROLINA ONE CALL" (1-800-632-4949) AND AFFECTED UTILITY OWNERS.
2. THE CONTRACTOR SHALL VISIT THE SITE AND BECOME FAMILIARIZED WITH EXISTING CONDITIONS BOTH ON AND IMMEDIATELY ADJACENT TO THE SITE.
3. ALL MATERIALS AND CONSTRUCTION PRACTICES ARE TO IN ACCORDANCE WITH THE CURRENT CITY OF WILMINGTON DETAILS AND SPECIFICATIONS.
4. REFER TO LANDSCAPE DRAWINGS FOR ADDITIONAL REQUIREMENTS.
5. MUCKING: CONTRACTOR SHALL COORDINATE WITH CITY REPRESENTATIVES AND THEIR GEOTECHNICAL REPRESENTATIVE TO COORDINATE REMOVAL OF ANY SOFT AREAS.
6. DISPOSAL: CLEARED, GRUBBED, STRIPPED OR OTHER WASTE MATERIAL SHALL BE REMOVED FROM SITE AND DISPOSED OF IN A PROPERLY PERMITTED FACILITY.
7. MAINTAIN EROSION AND SEDIMENT CONTROL PROCEDURES DURING THE ENTIRE CONSTRUCTION PERIOD. CONTROL DEBRIS AND LOOSE SOIL ON ADJACENT STREETS THROUGH DAILY CLEANING.
8. THE CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE SCOURING/RECONNECTION AND/OR THE RELOCATION OF ALL EXISTING UTILITIES WITH UTILITY OWNER.
9. THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AT THE SITE. FURTHERMORE THE CONTRACTOR SHALL REPORT ALL DISCREPANCIES OR QUESTIONS TO THE CITY PRIOR TO INSTALLATION.
10. ALL PAVEMENT BASE AND SUBGRADE SHALL CONFORM TO NCDOT STANDARDS INCLUDING WORKMANSHIP, MATERIALS AND EQUIPMENT AND IN ACCORDANCE WITH THE SPECIFICATIONS. SITE DETAILS WITH REFERENCES SD X-Y SHALL CONFORM TO THE LATEST EDITION OF THE CITY OF WILMINGTON TECHNICAL STANDARDS AND SPECIFICATION MANUAL. APPROPRIATE BARRICADES, SIGNS, LIGHTS OR OTHER TRAFFIC CONTROL DEVICES SHALL BE PROVIDED IN ACCORDANCE WITH NCDOT, ILM, AND MUTCD STANDARDS.
11. TOPSOIL SHALL BE STOCKPILED SEPARATE FROM EXCAVATED MATERIAL, ONSITE AND READY FOR REUSE.
12. EXISTING TOPOGRAPHY, STRUCTURES, UTILITIES AND SITE FEATURES ARE GENERALLY SHOWN SCREENED AND/OR LIGHT LINES. NEW FINISH GRADE, STRUCTURES, UTILITIES AND SITE FEATURES ARE GENERALLY SHOWN AS HEAVY LINES.
13. ALL RADII ARE TO EDGE OF PAVEMENT.
14. ALL PROPOSED VEGETATION WITHIN SIGHT TRIANGLES SHALL NOT INTERFERE WITH CLEAR VISUAL SIGHT LINES FROM 30' TO 10'.
15. ALL PAVEMENT MARKINGS IN THE PUBLIC RIGHT OF WAY AND FOR DRIVEWAYS ARE TO BE THERMOPLASTIC AND MEET CITY AND NCDOT STANDARDS.
16. ALL SIGNS AND PAVEMENT MARKINGS IN AREAS OPEN TO PUBLIC TRAFFIC ARE TO MEET MUTCD STANDARDS.
17. ALL TRAFFIC CONTROL SIGNS AND MARKINGS OFF THE RIGHT OF WAY ARE TO BE MAINTAINED BY THE PROPERTY OWNER IN ACCORDANCE WITH MUTCD STANDARDS.
18. ALL PARKING STALL MARKINGS AND LANE ARROWS WITHIN THE PARKING AREAS SHALL BE WHITE.
19. A UTILITY CUT PERMIT IS REQUIRED FOR EACH OPEN CUT OF A CITY STREET (CINEMA DRIVE). CONTACT 341.7888 FOR ADDITIONAL DETAILS. IN CERTAIN CASES AN ENTIRE RESURFACING OF THE AREA BEING OPEN CUT MAY BE REQUIRED.
20. ANY BROKEN OR MISSING SIDEWALK PANELS, DRIVEWAY PANELS AND CURBING WILL BE REPLACED.
21. CONTACT THE CITY TRAFFIC ENGINEER AT 341.7888 FORTY EIGHT HOURS PRIOR TO ANY EXCAVATION IN THE RIGHT OF WAY.

GEOTECHNICAL NOTES

1. GEOTECHNICAL SUBSURFACE CONDITIONS OF THIS PROJECT CAN BE FOUND IN THE GEOTECHNICAL REPORT PREPARED BY CATLIN ENGINEERS AND SCIENTISTS DATED AUGUST 2013.
2. INFORMATION CONTAINED IN THE GEOTECHNICAL REPORT IS LIMITED, BASED ON DATA OBTAINED FROM BORING LOGS AND LABORATORY TESTING THAT SHOW SUBSURFACE CONDITIONS ONLY AT THE SPECIFIC LOCATION AND TIME INVESTIGATED AND ONLY TO THE DEPTH PENETRATED. SUBSURFACE CONDITIONS AND GROUNDWATER LEVELS AT OTHER LOCATIONS OR DEPTHS MAY DIFFER FROM CONDITIONS OCCURRING AT INVESTIGATED LOCATIONS. THE PASSAGE OF TIME MAY ALSO RESULT IN CHANGED CONDITIONS AT THESE LOCATIONS. IF, DURING CONSTRUCTION, SUBSURFACE CONDITIONS ARE FOUND TO VARY FROM THOSE DESCRIBED IN THE GEOTECHNICAL REPORT, GEOTECHNICAL RECOMMENDATIONS SHOULD BE RE-EVALUATED.
3. THE GEOTECHNICAL REPORT INCLUDES BOTH FACTUAL AND INTERPRETED INFORMATION. FACTUAL INFORMATION IS DEFINED AS OBJECTIVE DATA BASED ON DIRECT OBSERVATIONS, SUCH AS BORING LOGS AND LABORATORY TESTING RESULTS. INTERPRETED INFORMATION OR GEOTECHNICAL ENGINEERING INTERPRETATION IS BASED ON THE ENGINEERING JUDGMENT, CORRELATION OR EXTRAPOLATION FROM FACTUAL INFORMATION. NO WARRANTIES, EXPLICIT OR IMPLIED, ARE PROVIDED FOR INTERPRETED INFORMATION.



NOTES

1. SEE CITY OF WILMINGTON DETAILS FOR DETAIL REFERENCES (SD X-X).
2. SEE FHWA MUTCD FOR SIGN REFERENCES (R1-X).
3. SEE PLANS C-501 TO C-503 FOR UN-REFERENCED DETAILS.

SURVEY NOTES

1. EXISTING TOPOGRAPHIC SURVEY DATA SHOWN WAS SURVEYED BY ATLANTIC COAST SURVEY, PLLC, WILMINGTON, N.C. HORIZONTAL REFERENCE DATUM NAD 83. VERTICAL DATUM NAVD 88.

EXISTING STORMWATER POND
N/F
STORMWATER OWNERS ASSOCIATION, INC
DB 2123, PG 016
ZONING RB

SITE DATA

AREA = 2.26 ACRES
PIN # R04914-005-021-000
ZONING = RB (REGIONAL BUSINESS)
PRINCIPAL USAGE = FIRE STATION
CAMA LAND USE CLASSIFICATION = URBAN
PROPOSED BUILDING AREA = 14,620 SF
TYPE OF CONSTRUCTION: II-B
BUILDING HEIGHT = 26'

BUILDING SET BACK REQUIREMENTS

FRONT YARD 25' 55' PROPOSED
REAR YARD 12.5' 62' PROPOSED
SIDE YARD NONE 32' PROPOSED

OFF STREET PARKING REQUIREMENTS

MIN. SPACE SIZE = 8.5' WIDE x 18' LONG
NUMBER OF SPACES REQUIRED
PUBLIC MEETING ROOM
1 SPACE PER 4 SEATS
(72 SEATS / 4) = 18 SPACES
FIRE STATION CREW
1 SPACE PER 2 PERSONS
(36 / 2) = 18 SPACES

TOTAL BICYCLE PARKING = 5

TOTAL PARKING SPACES REQUIRED = 36

SPACES PROVIDED: 23 - 9x18' SPACES
11 - EXISTING SHARED SPACES
+ 2 - HANDICAPPED SPACES
= 36 TOTAL SPACES

COVERAGE (PROPOSED)

BUILDING ROOF LINE 14,620 SF = 14.85%
CONC. 7,916 SF
ASPHALT AND CURB 22,115 SF
TOTAL 44,651 SF = 46.37%

ALLOWABLE IMPERVIOUS PER NCDENR PERMIT SW960321 = 90%

WATER SYSTEM OWNER = CAPE FEAR PUBLIC UTILITY AUTHORITY
CURRENT WATER USE = 0 GPD
PROPOSED WATER USE = 1,200 GPD

SANITARY SEWER OWNER = CAPE FEAR PUBLIC UTILITY AUTHORITY
CURRENT SEWER USE = 0 GPD
PROPOSED SEWER USE = 1,200 GPD

ROLL OUTS WILL BE USED FOR SOLID WASTE

NO WETLANDS HAVE BEEN IDENTIFIED WITHIN THE PROJECT AREA
NO HISTORIC OR ARCHAEOLOGICAL SITES HAVE BEEN IDENTIFIED WITHIN THE PROJECT AREA

PROJECT SITE'S USGS SOIL TYPES = (Se) SEAGATE FINE SAND

DESIGNER'S CERTIFICATION

"I HEREBY CERTIFY THAT THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH THE LATEST WILMINGTON STANDARDS AND SPECIFICATIONS FOR STORM WATER MANAGEMENT AND CHAPTER 20 OF THE CODE OF ORDINANCES OF THE CITY OF WILMINGTON."

SIGNATURE:
GALEN M. JAMISON, PE / PROJECT ENGINEER

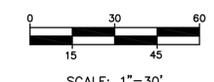
DATE: 01/17/2014 REGISTRATION NUMBER: Q37531

OWNER'S/DEVELOPER'S CERTIFICATION

"I/WE HEREBY CERTIFY THAT ANY CLEARING, GRADING, CONSTRUCTION OR DEVELOPMENT, OR ALL OF THESE, WILL BE DONE PURSUANT TO THE PLAN AND THAT THE APPLICABLE STORMWATER MANAGEMENT CONDITIONS AND REQUIREMENTS OF THE CITY OF WILMINGTON, THE STATE OF NORTH CAROLINA AND THE FEDERAL GOVERNMENT AND ITS AGENCIES ARE HEREBY MADE PART OF THIS PLAN."

SIGNATURE:
PRINTED NAME AND TITLE: _____

DATE: _____



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220 Old Dairy Road
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Corporate License No. for Engineering Services C-6885

Professional Engineer Seal for GALEN M. JAMISON, PE, No. 179857.681, State of North Carolina, expires 12/31/2014.
Jan 17 2014 3:25 PM

PROJECT TITLE
CITY OF WILMINGTON FIRE DEPARTMENT
FIRE STATION No. 3
114 CINEMA DRIVE
WILMINGTON, NC 28403

SHEET TITLE
SITE PLAN

ISSUE BLOCK	
MARK	DESCRIPTION
01/17/2014	ISSUED FOR BID
PROJECT NO:	2012169.00
DATE:	1/17/2014
SCALE:	
DRAWN BY:	LML, KAG
PROJ MGR:	LML

CS-101
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EROSION CONTROL MAINTENANCE PLAN

1. ALL EROSION AND SEDIMENT CONTROL PRACTICES WILL BE CHECKED FOR STABILITY AND OPERATION FOLLOWING EVERY RUNOFF - PRODUCING RAINFALL BUT IN NO CASE LESS THAN ONCE EVERY WEEK. ANY NEEDED REPAIRS WILL BE MADE IMMEDIATELY TO MAINTAIN ALL PRACTICES AS DESIGNED.
2. INSPECT SEDIMENT TRAPS AT LEAST WEEKLY AND AFTER EACH SIGNIFICANT RAINFALL EVENT AND REPAIR IMMEDIATELY. REMOVE SEDIMENT, AND RESTORE THE TRAP TO ITS ORIGINAL DIMENSIONS WHEN THE SEDIMENT HAS ACCUMULATED TO ONE-HALF THE DESIGN DEPTH OF THE TRAP. PLACE THE SEDIMENT THAT IS REMOVED IN DESIGNATED DISPOSAL AREA, AND REPLACE THE PART OF THE GRAVEL FACING THAT IS IMPAIRED BY SEDIMENT.
3. SEDIMENT WILL BE REMOVED FROM BEHIND THE SEDIMENT FENCE WHEN IT BECOMES ABOUT 0.5 FEET DEEP AT THE FENCE. THE SEDIMENT FENCE WILL BE REPAIRED OR REPLACED AS NECESSARY TO MAINTAIN A BARRIER.
4. ALL AREAS WILL BE FERTILIZED, RESEEDED AS NECESSARY, AND MULCHED ACCORDING TO SPECIFICATIONS IN THE VEGETATIVE PLAN TO MAINTAIN A VIGOROUS, DENSE VEGETATIVE COVER.
5. GRAVEL CONSTRUCTION ENTRANCE TO BE CLEANED WHEN SEDIMENT ACCUMULATIONS ARE VISIBLE OR SEDIMENT IS DEPOSITED ON THE ASPHALT AND STONE WILL BE PERIODICALLY TOP DRESSED WITH 2 INCHES OF #4 STONE TO MAINTAIN 6 INCH DEPTH.
7. INSPECT INLETS AT LEAST WEEKLY AND AFTER EACH SIGNIFICANT (1 1/2" OR GREATER) RAINFALL EVENT. CLEAR THE WIRE OF ANY DEBRIS OR OTHER OBJECTS TO PROVIDE ADEQUATE FLOW FOR SUBSEQUENT RAINS. TAKE CARE NOT TO DAMAGE OR UNDERCUT THE WIRE MESH DURING SEDIMENT REMOVAL. REPLACE STONE AS NEEDED.

EROSION CONTROL NOTES

1. ANY CONSTRUCTION ACTIVITY BEYOND THE 1.9 ACRE LIMITS SHOWN ON THE PLAN IS A VIOLATION OF THE STATE EROSION CONTROL ORDINANCE AND IS SUBJECT TO FINES.
2. CONTRACTOR SHALL REMOVE ALL TREES AND VEGETATION WITHIN ROAD RIGHT OF WAYS UNLESS OTHERWISE DESIGNATED TO REMAIN.
3. CONTRACTOR SHALL RAKE AND REMOVE ROOTS, STUMPS, VEGETATION, DEBRIS, EXISTING STRUCTURES ABOVE AND BELOW GRADE, ORGANIC MATERIAL OR ANY OTHER UNSUITABLE MATERIAL WITHIN THE LIMITS OF CONSTRUCTION.
4. CONTRACTOR SHALL COORDINATE WITH OWNER AND THEIR GEOTECHNICAL REPRESENTATIVE TO COORDINATE REMOVAL OF ANY UNSUITABLE SOILS.
5. CLEARED, GRUBBED, STRIPPED OR OTHER WASTE MATERIALS SHALL BE REMOVED FROM THE SITE AND DISPOSED OF IN A PROPERLY PERMITTED FACILITY.
6. THE CONTRACTOR SHALL FURNISH ANY REQUIRED BORROW MATERIALS FROM A PROPERLY PERMITTED OFF-SITE FACILITY.
7. SOIL STABILIZATION SHALL BE ACHIEVED ON ANY AREA OF A SITE WHERE LAND-DISTURBING ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED ACCORDING TO THE FOLLOWING SCHEDULE:
 - i) ALL PERIMETER DIKES, SWALES, DITCHES, PERIMETER SLOPES AND ALL SLOPES STEEPER THAN 3 HORIZONTAL TO 1 VERTICAL (3:1) SHALL BE PROVIDED TEMPORARY OR PERMANENT STABILIZATION WITH GROUND COVER AS SOON AS PRACTICABLE BUT IN ANY EVENT WITHIN 7 CALENDAR DAYS FROM THE LAST LAND-DISTURBING ACTIVITY.
 - ii) ALL OTHER DISTURBED AREAS SHALL BE PROVIDED TEMPORARY OR PERMANENT STABILIZATION WITH GROUND COVER AS SOON AS PRACTICABLE BUT IN ANY EVENT WITHIN 14 CALENDAR DAYS FROM THE LAST LAND-DISTURBING ACTIVITY.
8. CONDITIONS - IN MEETING THE STABILIZATION REQUIREMENTS ABOVE, THE FOLLOWING CONDITIONS OR EXEMPTIONS SHALL APPLY:
 - i) EXTENSIONS OF TIME MAY BE APPROVED BY THE PERMITTING AUTHORITY BASED ON WEATHER OR OTHER SITE SPECIFIC CONDITIONS THAT MAKE COMPLIANCE IMPRACTICABLE.
 - ii) ALL SLOPES 50' IN LENGTH OR GREATER SHALL APPLY THE GROUND COVER WITHIN 7 DAYS EXCEPT WHEN THE SLOPE ARE STEEPER THAN 3:1, THE 7 DAY REQUIREMENT APPLIES.
 - iii) ANY SLOPED AREA FLATTER THAN 4:1 SHALL BE EXEMPT FROM THE 7 DAY GROUND COVER REQUIREMENT.
 - iv) SLOPES 10' OR LESS IN LENGTH SHALL BE EXEMPT FROM THE 7 DAY GROUND COVER REQUIREMENT.
 - v) ALTHOUGH STABILIZATION IS USUALLY SPECIFIED AS GROUND COVER, OTHER METHODS, SUCH AS CHEMICAL STABILIZATION, MAY BE ALLOWED ON A CASE BY CASE BASIS.
 - vi) FOR PORTIONS OF PROJECTS WITHIN THE SEDIMENT CONTROL COMMISSION DEFINED "HIGH QUALITY WATER ZONE" (15A NCAC 04A.0105), STABILIZATION WITH GROUND COVER SHALL BE ACHIEVED AS SOON AS PRACTICABLE BUT IN ANY EVENT ON ALL AREAS OF THE SITE WITHIN 7 CALENDAR DAYS FROM THE LAST LAND DISTURBING ACT.
 - vii) PORTIONS OF A SITE THAT ARE LOWER IN ELEVATION THAN ADJACENT DISCHARGE LOCATIONS AND ARE NOT EXPECTED TO DISCHARGE DURING CONSTRUCTION MAY BE EXEMPT FROM THE TEMPORARY GROUND COVER REQUIREMENTS IF IDENTIFIED ON THE APPROVED E&SC PLAN OR ADDED BY THE PERMITTING AUTHORITY.
9. ADDITIONAL MEASURES TO CONTROL EROSION AND SEDIMENT MAY BE REQUIRED BY A REPRESENTATIVE OF THE STATE ENGINEERING DEPARTMENT.
10. SLOPES SHALL BE GRADED NO STEEPER THAN 3:1.
11. ADDITIONAL DEVICES MAY BE REQUIRED AS AGREED UPON BY THE FIELD INSPECTOR, ENGINEER, AND OWNER.
12. IF ACTIVE CONSTRUCTION CEASES IN ANY AREA FOR MORE THAN 15 CALENDAR DAYS, ALL DISTURBED AREAS MUST BE SEEDED, MULCHED, AND TACKED UNLESS WRITTEN APPROVAL IS GRANTED BY THE EROSION CONTROL OFFICER.

CONSTRUCTION SEQUENCE

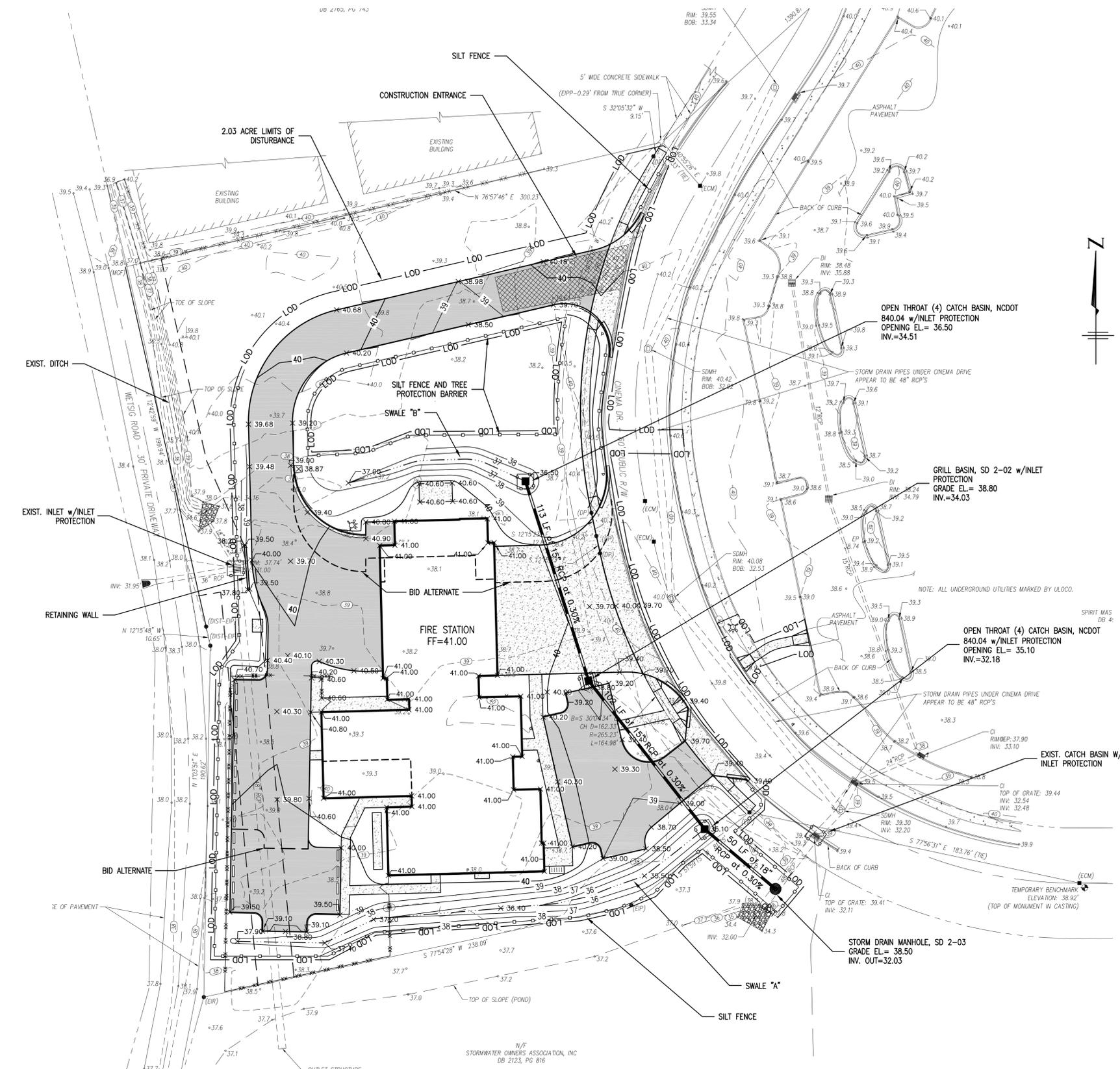
1. OBTAIN ALL NECESSARY PERMIT APPROVALS PRIOR TO ANY LAND DISTURBING ACTIVITY.
2. HOLD A PRE-CONSTRUCTION MEETING WITH THE EROSION CONTROL INSPECTOR.
3. INSTALL GRAVEL CONSTRUCTION ENTRANCE, INLET PROTECTION AND SILT FENCE, COMMENCE DEMOLITION, CLEARING AND ROUGH GRADING.
4. ROUGH GRADE SITE AND INSTALL UNDERGROUND UTILITIES.
5. INSTALL CURBING AND ROADWAY BASE AND BEGIN BUILDING CONSTRUCTION.
6. ONCE BUILDING EXTERIOR WORK IS NEAR COMPLETE, PAVE ROADWAYS AND PARKING AREAS AND POUR CONC. WALKS.
7. PROVIDE TEMPORARY PROTECTION MEASURES AND DEVICES AS REQUIRED UNTIL UNDERGROUND UTILITIES AND PAVEMENT IS COMPLETE AND FINAL GRADES ARE STABILIZED WITH TEMPORARY VEGETATIVE COVER.
8. STABILIZE (FERTILIZE, SEED, AND MULCH) ALL DISTURBED AREAS AS SOON AS FINAL GRADES ARE ESTABLISHED.
9. ONCE CONSTRUCTION IS COMPLETE AND ALL DISTURBED AREAS ARE STABILIZED, OBTAIN NCDENR'S APPROVAL TO REMOVE TEMPORARY EROSION CONTROL MEASURES.

GRADING NOTES

1. ALL EXCAVATION, GRADING, AND BACKFILLING SHALL BE IN ACCORDANCE WITH THE CITY OF WILMINGTON TECHNICAL STANDARDS.
2. INITIATE EROSION CONTROL SEQUENCE BEFORE BEGINNING CLEARING, GRUBBING AND GRADING OPERATIONS.
3. CLEAR AREAS TO BE GRADED OF ALL VEGETATION. PROTECT VEGETATION BEYOND GRADING LIMITS.
4. STRIP TOPSOIL TO FULL DEPTH IN AREAS TO BE GRADED AND STOCKPILE.
5. COMPACT ALL FILL AREAS TO 95% OF MAXIMUM DENSITY.
6. ALL BANKS AND SWALE SIDE SLOPES SHALL BE GRADED WITH NO GREATER THAN 3:1 SLOPES.
7. ALL AREAS ARE TO BE GRADED SO THAT NO AREAS OF STANDING WATER OCCUR.
8. PROPOSED SPOT ELEVATIONS ARE SHOWN AT FINISHED GRADE.
9. OPERATOR SHALL FIELD VERIFY EXISTING TOPOGRAPHY IN RELATION TO THE PROPOSED GRADES TO ENSURE DRAINAGE IN THE DIRECTIONS INDICATED ON THE PLAN.

SEED SCHEDULE

1. FOLLOW RECOMMENDATIONS OF SOIL TEST OR APPLY 2,000 LB/ACRE GROUND AGRICULTURAL LIMESTONE AND 750 LBS/ACRE 10-10-10 FERTILIZER.
2. APPLY 4,000 LBS/ACRE STRAW. ANCHOR STRAW BY TACKING WITH ASPHALT, NETTING OR A MULCH ANCHORING TOOL.
3. A DISK WITH BLADES SET NEARLY STRAIGHT CAN BE USED AS A MULCH ANCHORING TOOL.
4. REFERTILIZE IF GROWTH IS NOT FULLY ADEQUATE. RESEED, REFERTILIZE AND MULCH IMMEDIATELY FOLLOWING EROSION OR OTHER DAMAGE.
5. RESEED AND MULCH AREAS WHERE SEEDING EMERGENCE IS POOR, OR WHEN EROSION OCCURS, AS SOON AS POSSIBLE. DO NOT MOW. PROTECT FROM TRAFFIC AS MUCH AS POSSIBLE.



TEMPORARY SEEDING

GRASS TYPE	AMOUNT/1000 S.F.	TIME OF SEEDING	INITIAL
RYE GRAIN	1-2 LBS.	AUG 15 - DEC 31	25 LBS. 10-10-10
GERMAN MILLET	1-2 LBS.	MAY 1 - AUG 14	25 LBS. 10-10-10
RYE GRAIN AND ANNUAL LESPEDEZA	2-3 LBS. 1-1.5 LBS.	JAN 1 - APR 30	25 LBS. 10-10-10

PERMANENT SEEDING

GRASS TYPE	AMOUNT/1000 S.F.	TIME OF SEEDING	INITIAL
BERMUDA, COMMON	1-2 LBS.	APRIL THRU JUNE	25 LBS. 10-10-10
FESCUE, TALL (KENTUCKY 31)	5-7 LBS.	JUNE THRU AUG. FEB. THRU OCT.	25 LBS. 10-10-10
SERICEA LESPEDEZA (SLOPES)	1-2 LBS.	MARCH THRU APRIL	25 LBS. 10-10-10

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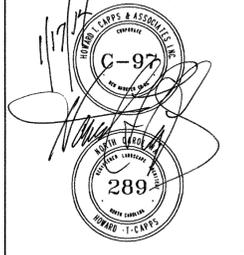
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CITY OF WILMINGTON FIRE DEPARTMENT
FIRE STATION No. 3
 114 CINEMA DRIVE
 WILMINGTON, NC 28403

GRADING, DRAINAGE & EROSION CONTROL PLAN

PROJECT NO: 2012169.00
 DATE: 1/17/2014
 SCALE:
 DRAWN BY: LML, KAG | PROJ MGR: LML

CG-101
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MARK	DATE	DESCRIPTION
X	X	

PROJECT NO: 2012169.00
DATE: 1/17/2014
SCALE:
DRAWN BY: RHC PROJ MGR: HTC

KEY NO.	QUANTITY	BOTANICAL NAME	COMMON NAME	ROOT	CAL.	HT.	REMARKS
LARGE SHADE TREE							
1	2	QUERCUS VIRGINIANA	LIVE OAK	WB	2 1/2"-3"	10'-12'	
2	9	PRUNUS SERRULATA	YOSHINO CHERRY	WB	2 1/2"-3"	10'-12'	
SMALL SHADE TREE							
3	6	LAGERSTROEMIA INDICA	CREPE MYRTLE	WB	8'-10'		VAR. MUSKAGEE
4	2	ACER PALMATUM	JAPANESE MAPLE	25 GAL.	2 1/2"	8'-0"	VAR. BLOODGOOD
SHRUBS / GROUND COVER							
5	20	OPHIPOGON JAPONICUS	MONDO GRASS	1 GAL.			1' O.C.
6	59	LEX VOMITORIA NANA	DWARF YALPON	3 GAL.			4' O.C.
7	54	JUNPERUS DAMARICA PARSONI	PARSONS JUNPER	3 GAL.			5' O.C.
8	21	PITTIOSPORUM TOBIRA	PITTIOSPORUM	7 GAL.			8' O.C.
9	38	PITTIOSPORUM TOBIRA NANA	WHEELER'S DWARF	3 GAL.			3' O.C.
10	57	HEMEROCALLIS HYBRIDA	DAYLILY	1 GAL.			3' O.C. STELLA D'ORE
11	10	HEMEROCALLIS HYBRIDA	DAYLILY	1 GAL.			3' O.C. HYPERBOL
12	115	MAHLENBERGIA CAPILLARS	PINK MURLY GRASS	3 GAL.			2' O.C.
13	17	CALAMAGROSTIS BRACHYTRICHA	KOREAN FEATHER REED GRASS	1 GAL.			2' O.C.
14	6	PANDUM VIRGATUM	CLOUD NINE TALL SWITCHGRASS	3 GAL.			3' O.C.
15	52	PENISETUM ALOPECUROIDES "CASSIAN"	DWARF FOUNTAIN GRASS	3 GAL.			3' O.C.
16	7	PENISETUM ALOPECUROIDES "FOXITROT"	GIANT FOUNTAIN GRASS	3 GAL.			3' O.C.
17	38	OSMANTHUS X FORTUNEI	FORTUNE TEA OLIVE	10 GAL.			6' O.C.
18	14	PHYRACANTHA COCCINEA	SCARLET FIRETHORN	7 GAL.			8' O.C.

NOTE:
The key number refers to the Plant List. Where there is only one number, it is the key number and the Quantity is one. Where there are two numbers connected by a dash, the first is the key number and the second is the quantity required for the planting bed indicated.
B&B = Ball and Burlap
WB = Wire Basket
Cont. = Container grown

All plant bed areas shall be covered in a minimum of 3" of clean long leaf pine needle mulch.

THE CONTRACTOR IS RESPONSIBLE FOR LOCATING AND FLAGGING ALL UNDERGROUND UTILITIES PRIOR TO PROCEEDING WITH ANY EXCAVATION WORK. IF ANY DAMAGE IS DONE TO EXISTING OR NEW UTILITIES, ALL NECESSARY REPAIRS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR WITH NO COST TO THE OWNER.

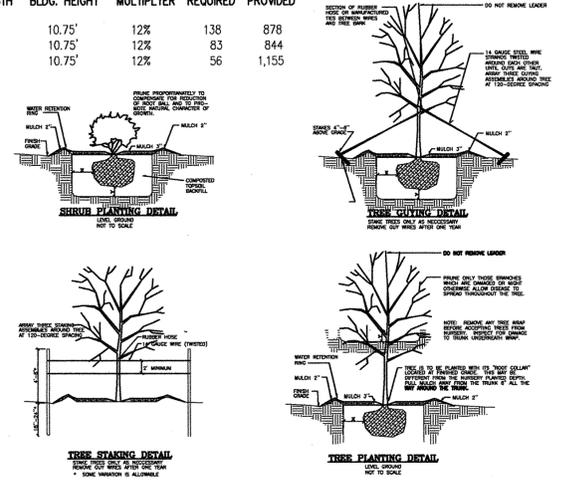
CALL: 1-800-632-4949 TO LOCATE UNDERGROUND UTILITIES PRIOR TO ANY EXCAVATION.
GAS LINES ARE LOCATED ON SITE. CONTRACTOR TO VERIFY WITH OWNER OR OWNERS REPRESENTATIVE PRIOR TO PROCEEDING WITH ANY EXCAVATION.

NOTE:
THE PLANT QUANTITIES SHOWN ON THE PLAN LIST ARE PROVIDED AS A CONVENIENCE TO THE CONTRACTOR. IN THE EVENT THERE IS A DIFFERENCE IN QUANTITY BETWEEN PLANT QUANTITIES IN THE PLANT LIST AND PLANT QUANTITIES ON THE PLAN, THE CONTRACTOR SHALL USE THE QUANTITY SHOWN ON THE PLAN. THE CONTRACTOR SHALL NOTIFY THE LANDSCAPE ARCHITECT OF ANY QUANTITY DIFFERENCE.

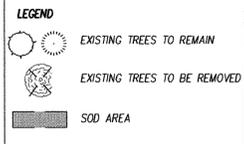
SOD AREAS AS NOTED ON DRAWING WITH EMERALD ZOYSIA. SEE CIVIL DRAWING SHEET CG-101 FOR PERMANENT SEEDING OF DISTURBED AREAS NOT IDENTIFIED ON SHEET L-1 AS SOD AREA.
SEE CIVIL DRAWING FOR LOCATION AND DETAIL OF TREE PROTECTION FENCING.

SEC. 18-462 (j)(4): SHOW NOTE ON PLAN STATING THAT PRIOR TO ANY CLEARING, GRADING OR CONSTRUCTION ACTIVITY, TREE PROTECTION FENCING WILL BE INSTALLED AROUND PROTECTED TREES OR GROVES OF TREES, AND NO CONSTRUCTION WORKERS, TOOLS, MATERIALS OR VEHICLES ARE PERMITTED WITHIN THE TREE PROTECTION FENCING.

FACADE LENGTH	BLDG. HEIGHT	MULTIPLYER	REQUIRED	PROVIDED
A 107'	10.75'	12%	138	878
B 64'	10.75'	12%	83	844
C 43'	10.75'	12%	56	1,155

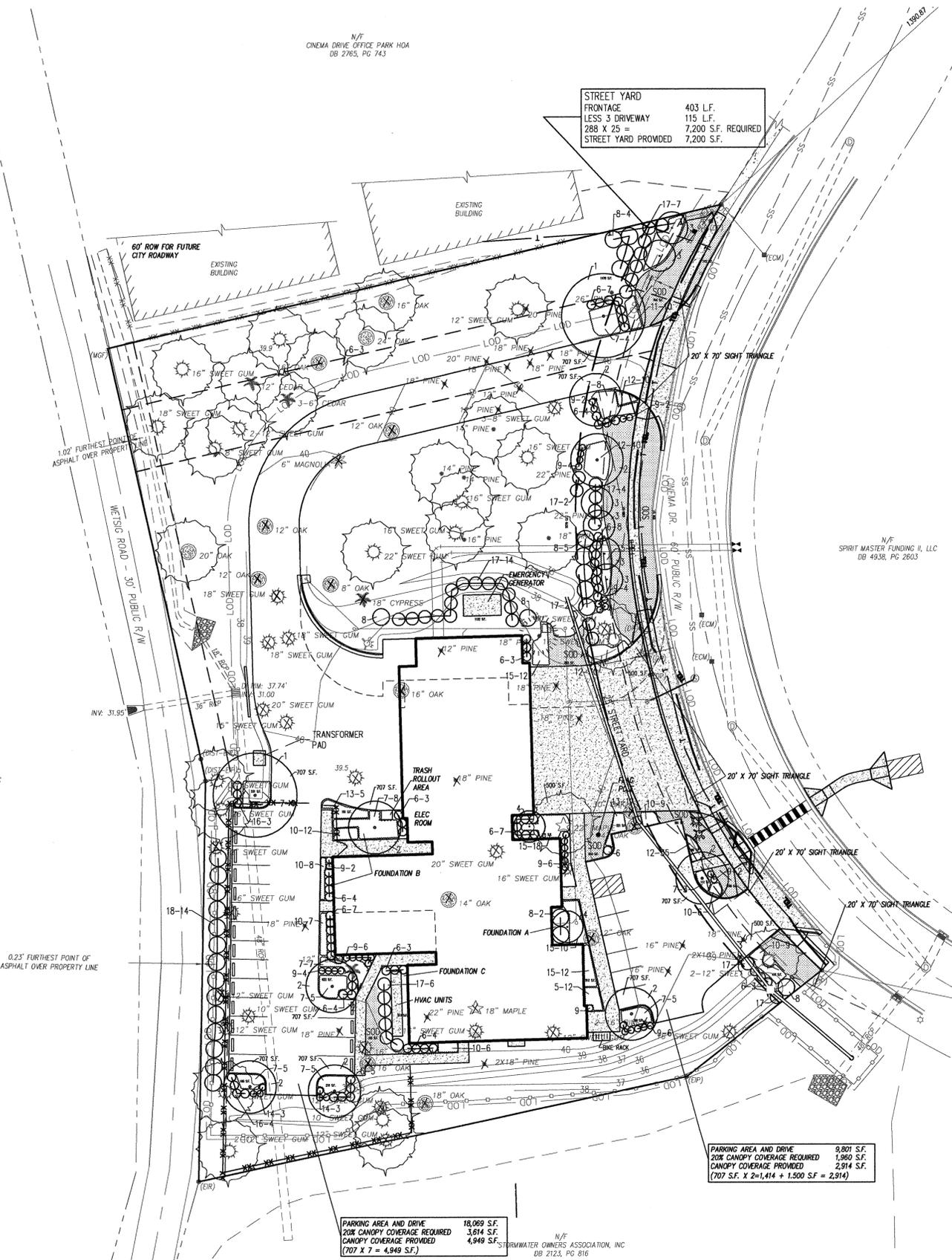
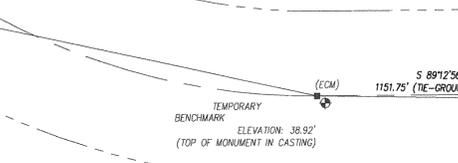


DATE	PLANTING	PLANTING
5'-12"	6"	3"
12'-36"	12"	6"
36" AND UP	1/2"	12"



TREE SIZE & TYPE	S	R	A	REASON
18" PINE		*		IN DRIVEWAY
18" PINE		*		IN DRIVEWAY
18" PINE		*		IN DRIVEWAY
12" PINE		*		IN DRIVEWAY
18" PINE		*		IN DRIVEWAY
20" PINE		*		IN DRIVEWAY
12" PINE		*		IN DRIVEWAY
3-8" SWEET GUM		*		IN DRIVEWAY
18" PINE		*		IN DRIVEWAY
12" OAK		*		IN DRIVEWAY
6" MAGNOLIA		*		IN DRIVEWAY
12" OAK		*		IN DRIVEWAY
12" OAK		*		IN DRIVEWAY
18" PINE		*		IN DRIVEWAY
18" SWEET GUM		*		IN DRIVEWAY
18" SWEET GUM		*		IN DRIVEWAY
20" SWEET GUM		*		IN DRIVEWAY
15" SWEET GUM		*		IN DRIVEWAY
NO SIZE SWEET GUM		*		IN DRIVEWAY BACK OF BLDG.
16" OAK		*		IN BUILDING FOOTPRINT
12" PINE		*		IN BUILDING FOOTPRINT
18" PINE		*		IN BUILDING FOOTPRINT
18" PINE		*		IN DRIVEWAY
18" PINE		*		IN DRIVEWAY
20" SWEET GUM		*		IN BUILDING FOOTPRINT
14" OAK		*		IN BUILDING FOOTPRINT
22" PINE		*		IN BUILDING FOOTPRINT
18" MAPLE		*		IN BUILDING FOOTPRINT
16" SWEET GUM		*		IN BUILDING FOOTPRINT
12" SWEET GUM		*		IN BUILDING FOOTPRINT
2-16" PINE		*		IN DRIVEWAY
12" OAK		*		IN BUILDING FOOTPRINT
16" PINE		*		IN DRIVEWAY
16" PINE		*		IN DRIVEWAY
18" PINE		*		IN DRIVEWAY
2-16" PINE		*		IN DRIVEWAY
16" SWEET GUM		*		IN BUILDING FOOTPRINT
16" SWEET GUM		*		IN DRIVEWAY
18" PINE		*		IN DRIVEWAY
10" SWEET GUM		*		IN DRIVEWAY
12" SWEET GUM		*		IN DRIVEWAY
18" PINE		*		IN DRIVEWAY
16" SWEET GUM		*		IN BUILDING FOOTPRINT
16" OAK		*		IN BUILDING FOOTPRINT
12" CEDAR	*	*	*	LIGHTNING DAMAGE
20" PINE	*	*	*	LARGE ROTTED SPOT
16" OAK	*	*	*	LARGE CAVITY IN BASE
16" OAK	*	*	*	REMOVE RIGHT SIDE OF TREE
24" OAK	*	*	*	REMOVE / TREE ON DIRT BALL
8" OAK NEAR DRIVE	*	*	*	REMOVE DUE TO GRADING
18" CYPRESS	*	*	*	CAVITY AT BASE OF TREE
12" SWEET GUM	*	*	*	BARK MISSING / DECAY
12" SWEET GUM	*	*	*	BARK MISSING / DECAY
16" PINE	*	*	*	LEANING TOWARD PARKING LOT
30" OAK	*	*	*	REMOVE / TO CLOSE TO DRIVEWAY
10" SWEET GUM	*	*	*	REMOVE / ROD FOR 16" SWEET GUM
18" OAK	*	*	*	SITE GRADING
12" SWEET GUM	*	*	*	SITE GRADING
2 X 18" PINE	*	*	*	SITE GRADING
18" CYPRESS	*	*	*	SITE GRADING

S = SIGNIFICANT TREE
R = REGULATED TREE
A = REMOVED BASED ON CITY ARBORIST COMMENT



STREET YARD FRONTAGE 403 L.F.
LESS 3 DRIVEWAY 115 L.F.
288 X 25 = 7,200 S.F. REQUIRED
STREET YARD PROVIDED 7,200 S.F.

PARKING AREA AND DRIVE 9,801 S.F.
20% CANOPY COVERAGE REQUIRED 1,960 S.F.
CANOPY COVERAGE PROVIDED 2,914 S.F.
(707 S.F. X 2=1,414 + 1,500 S.F. = 2,914)

PARKING AREA AND DRIVE 18,069 S.F.
20% CANOPY COVERAGE REQUIRED 3,614 S.F.
CANOPY COVERAGE PROVIDED 4,949 S.F.
(707 X 7 = 4,949 S.F.)

N/F STRMATER OWNERS ASSOCIATION, INC
DB 2123, PG 816

N/F ARTILLERY INVESTMENTS LLC
DB 5696, PG 2584

N/F SPIRIT MASTER FUNDING II, LLC
DB 4936, PG 2603

N/F CINEMA DRIVE OFFICE PARK HOA
DB 2765, PG 743

0.25' FURTHEST POINT OF ASPHALT OVER PROPERTY LINE

60' ROW FOR FUTURE CITY ROADWAY

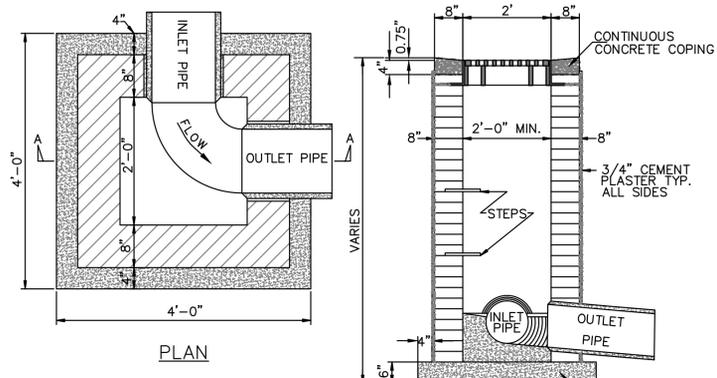
1.02' FURTHEST POINT OF ASPHALT OVER PROPERTY LINE

WETZING ROAD - 30' PUBLIC R/W

INV. 31.95'

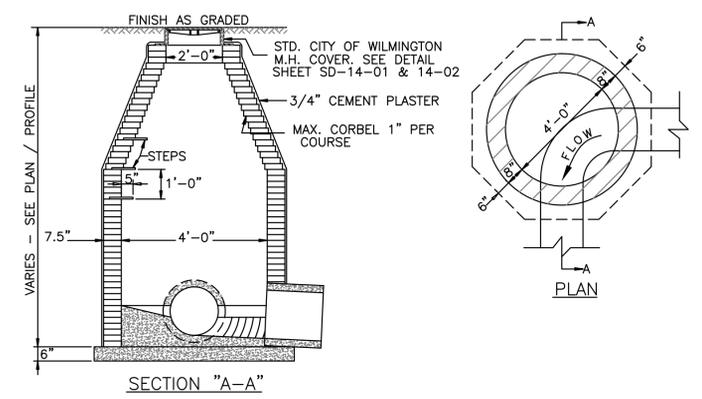
S 89°12'56" E
1151.75' (11E-GROUND DISTANCE)

TEMPORARY BENCHMARK
ELEVATION: 38.92'
(TOP OF MONUMENT IN CASTING)

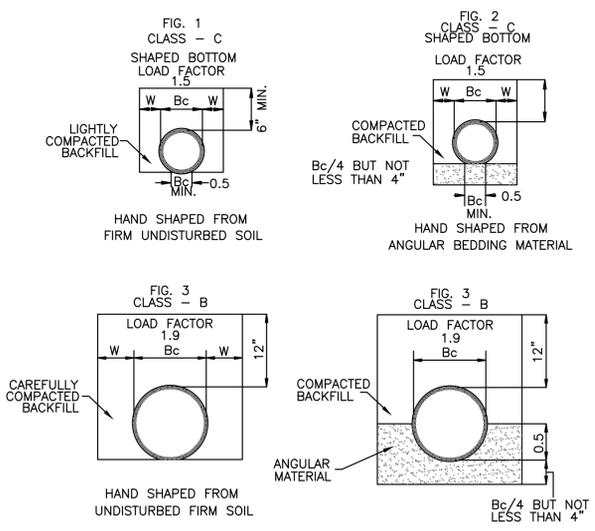


NOTE:
FRAME AND GRATE TO BE STANDARD CITY OF WILMINGTON CAST IRON FRAME AND GRATE PER SD 14-04

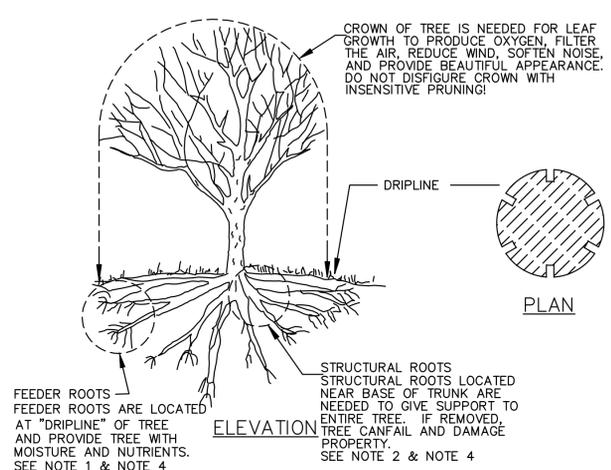
GRILL BASIN
NOT TO SCALE



GUIDELINES FOR STORM DRAIN MANHOLE
NOT TO SCALE

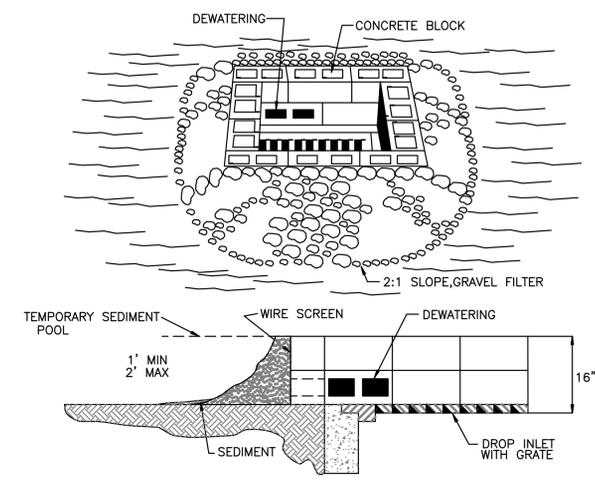


GUIDELINES FOR BEDDING DETAILS, STORM SEWER CLASSES (B + C)
NOT TO SCALE



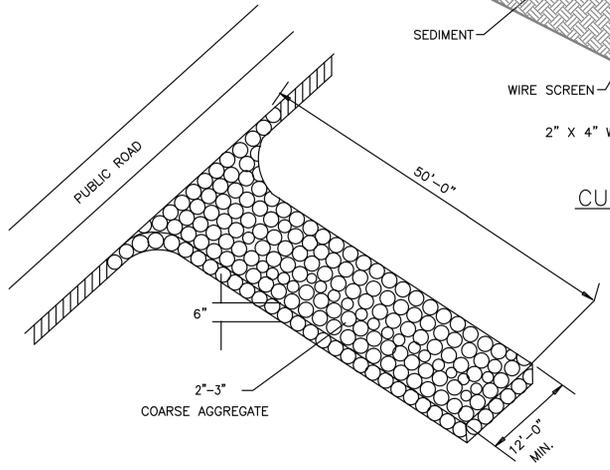
- METHOD OF TREE PROTECTION DURING CONSTRUCTION**
NOT TO SCALE
- DO NOT COMPACT SOIL BENEATH TREES. NO VEHICLE SHALL BE ALLOWED TO PARK UNDER TREES. NO HEAVY MATERIALS SHALL BE STORED BENEATH TREES. RESULTS OF COMPACTION CAUSE WATER AND AIR NOT TO REACH THE ROOTS AND THE TREE WILL DIE. THESE "FEEDER ROOTS" OCCUR WELL AWAY FROM THE BASE OF THE TREE TO THE EDGE OF THE OVERHEAD BRANCH CANOPY. DAMAGING THE BARK WITH LAWNMOWERS, CONSTRUCTION EQUIPMENT, OR ANYTHING ELSE IS PROHIBITED. APPROPRIATE PROTECTIVE BARRIER SHOULD PREVENT DAMAGE FROM OCCURRING DURING CONSTRUCTION.
 - NO CUTTING OF LARGE STRUCTURAL ROOTS LOCATED NEAR THE BASE OF THE TRUNK. THESE ARE ESSENTIAL IN SUPPORTING THE TREE AND HOLDING IT UPRIGHT IN HIGH WINDS. REMOVAL OF THESE ROOTS ALONG ONE SIDE IS OFTEN DONE BECAUSE OF A WALK, PAVING OR BUILDING WHICH IS BEING CONSTRUCTED.
 - AVOID CUT AND FILL WITHIN DIAMETER OF TREE CROWN DURING EXCAVATION.

METHOD OF TREE PROTECTION DURING CONSTRUCTION
NOT TO SCALE

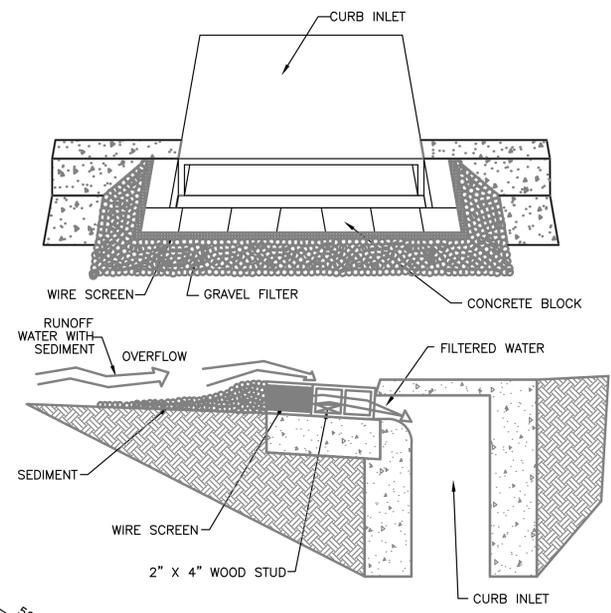


- DROP INLET PROTECTION**
NOT TO SCALE
- LAY ONE BLOCK ON EACH SIDE OF THE STRUCTURE ON ITS SIDE IN THE BOTTOM ROW TO ALLOW POOL DRAINAGE. THE FOUNDATION SHOULD BE EXCAVATED AT LEAST 2" BELOW THE CREST OF THE STORM DRAIN. PLACE THE BOTTOM ROW OF BLOCKS AGAINST THE EDGE OF THE STORM DRAIN FOR LATERAL SUPPORT AND TO AVOID WASHOUTS WHEN OVERFLOW OCCURS. IF NEEDED, GIVE LATERAL SUPPORT TO SUBSEQUENT ROWS BY PLACING 2x4 WOOD STUDS THROUGH BLOCK OPENINGS.
 - CAREFULLY FIT HARDWARE CLOTH OR COMPARABLE WIRE MESH WITH 1/2-INCH OPENINGS OVER ALL BLOCK OPENINGS TO HOLD GRAVEL IN PLACE.
 - USE CLEAN GRAVEL, 3/4 TO 1/2-INCH IN DIAMETER, PLACED 2 INCHES BELOW THE TOP OF THE BLOCK ON A 2:1 SLOPE OR FLATTER AND SMOOTH IT TO AN EVEN GRADE. D.O.T #57 WASHED STONE IS RECOMMENDED.

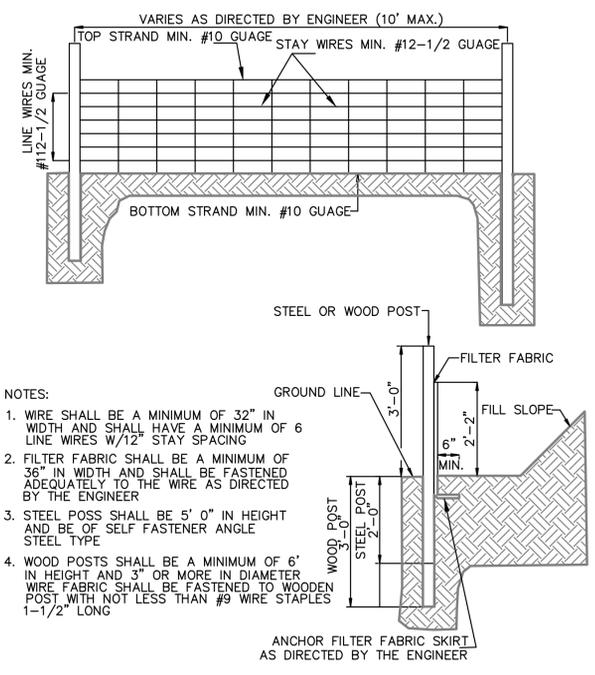
DROP INLET PROTECTION
NOT TO SCALE



CONSTRUCTION ENTRANCE/EXIT
NOT TO SCALE



CURB INLET PROTECTION
NOT TO SCALE



GUIDELINES FOR TEMPORARY SILT FENCE DETAIL
NOT TO SCALE

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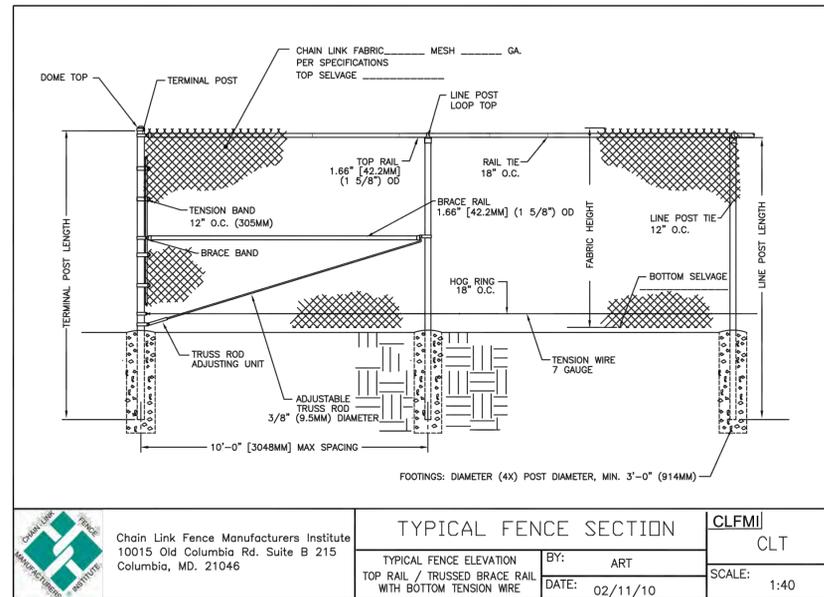
PROJECT TITLE
CITY OF WILMINGTON FIRE DEPARTMENT
FIRE STATION No. 3
114 CINEMA DRIVE
WILMINGTON, NC 28403

SHEET TITLE
DETAILS

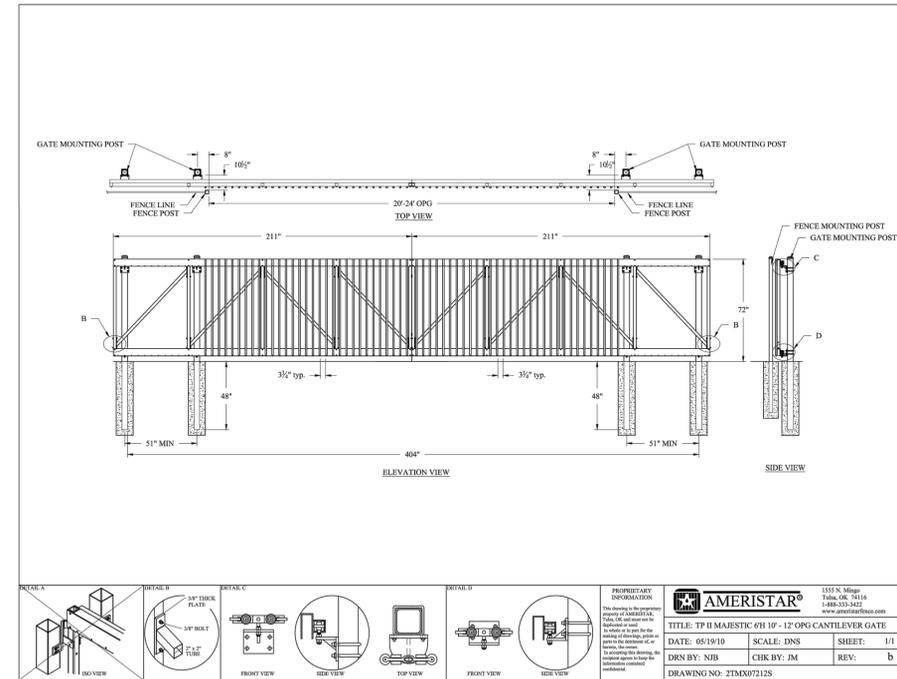
MARK	DATE	DESCRIPTION
01/17/2014	ISSUED FOR BID	

PROJECT NO: 2012169.00
DATE: 1/17/2014
SCALE:
DRAWN BY: LML, KAG | PROJ MGR: LML

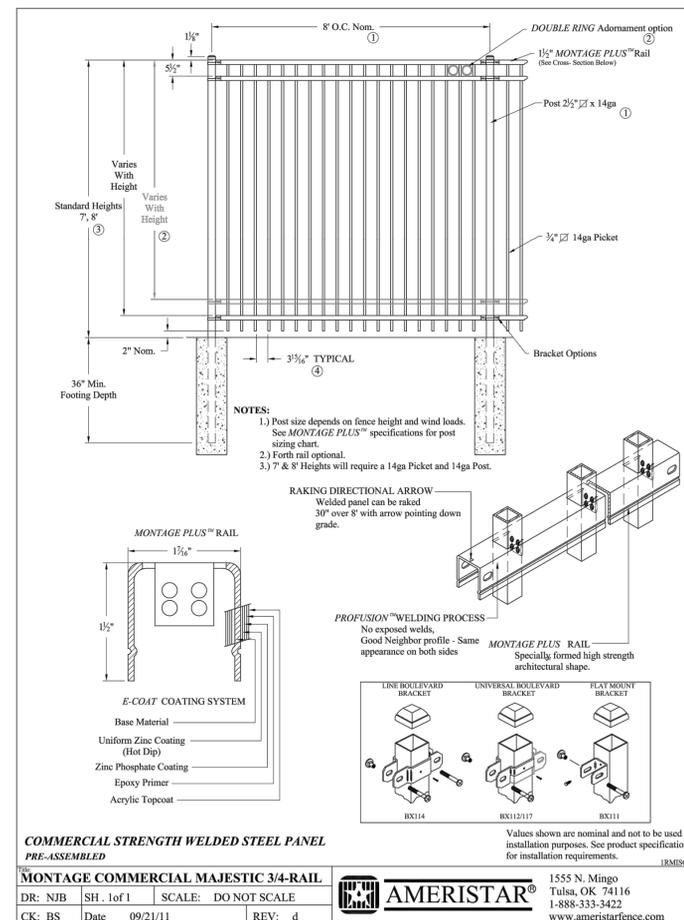
C-502
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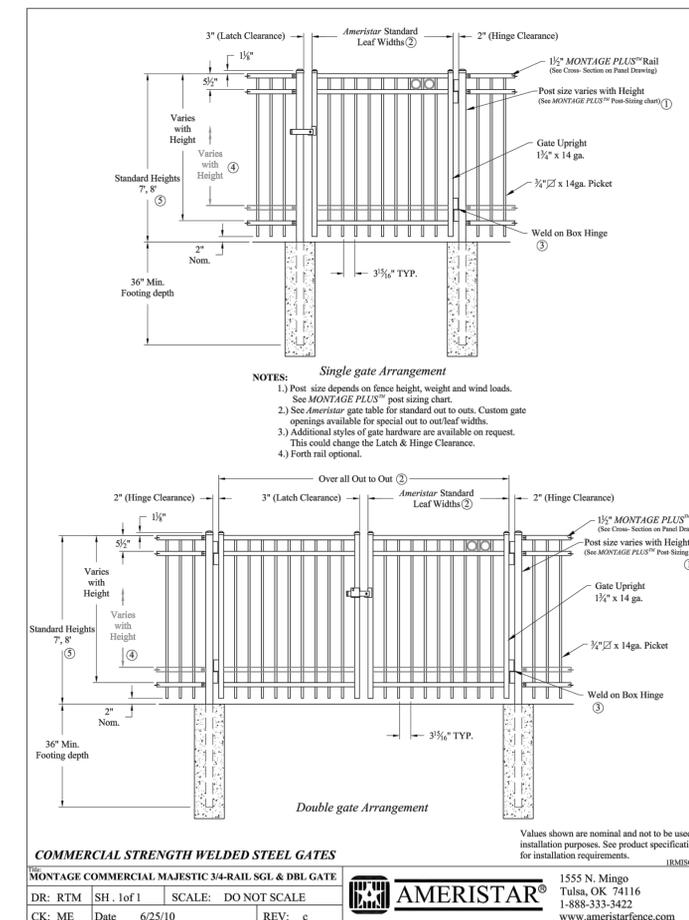
CHAINLINK FENCE SECTION
BASEIS OF DESIGN



WROUGHT IRON CANTILEVER SLIDE GATE DETAIL
BASEIS OF DESIGN

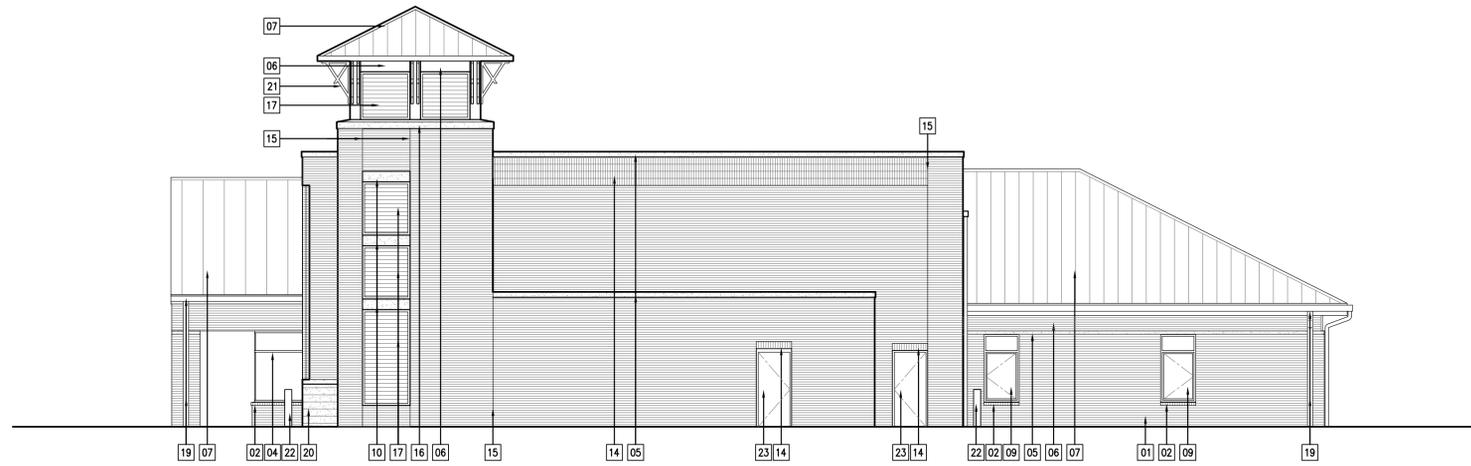


WROUGHT IRON FENCE SECTION
BASEIS OF DESIGN



WROUGHT IRON GATE DETAIL
BASEIS OF DESIGN

MARK	DATE	DESCRIPTION
01/17/2014	ISSUED FOR BID	
DR: RTM	SH: 1 of 1	SCALE: DO NOT SCALE
CK: ME	Date: 6/25/10	REV: c
PROJECT NO:	2012169.00	
DATE:	1/17/2014	
SCALE:		
DRAWN BY:	LML, KAG	PROJ MGR: LML



- 01 BRICK VENEER
- 02 BRICK ROWLOCK
- 03 SPANDREL PANELS
- 04 ALUMINUM STOREFRONT FRAMING SYSTEM
- 05 CAST STONE
- 06 METAL PANEL
- 07 STANDING SEAM METAL ROOF
- 08 CITY OF WILMINGTON FIRE DEPARTMENT SIGNAGE
- 09 ALUMINUM WINDOWS
- 10 PRECAST VENEER
- 11 FIRE HOUSE NUMBER SIGNAGE
- 12 BI-FOLD HIGH SPEED DOORS
- 13 LIGHTING FIXTURE (SEE ELECTRICAL)
- 14 SOLDIER COURSE
- 15 MASONRY CONTROL JOINT
- 16 PRECAST CAP
- 17 LOUVERS
- 18 OVERHEAD GARAGE DOOR
- 19 GUTTERS & DOWNSPOUTS
- 20 CALCIUM SILICATE MASONRY UNITS
- 21 POWDER-COATED ALUMINUM BRACKETS
- 22 PIPE BOLLARD
- 23 HOLLOW METAL DOOR AND FRAME

2 NORTH ELEVATION
A202 SCALE: 1/8" = 1'-0"



1 WEST ELEVATION
A202 SCALE: 1/8" = 1'-0"

PROJECT TITLE



FIRE STATION No. 3
114 CINEMA DRIVE
WILMINGTON, NC 28403

SHEET TITLE

**BUILDING
ELEVATIONS**

ISSUE BLOCK

MARK	DATE	DESCRIPTION
X	X	

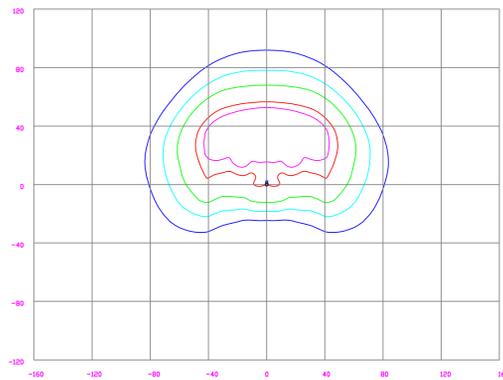
PROJECT NO:	2012169.00
DATE:	1/17/2014
SCALE:	
DRAWN BY:	LML, KAG
PROJ MGR:	LML

A202
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ISOFOOTCANDLE CURVES

FIXTURE: LED205, EAMM
 MOUNTING HEIGHT: 30 FT
 LIGHT SOURCE: 180 LED'S, 4000K
 PATTERN: TYPE III, B2-U0-G2 (zero light at or above 90 degrees)
 ASSY# L12KLED205L3MC
 POLE ASSY# PL330ABDSQBLK (BLACK)

NOTE: THE FOOTCANDLE READINGS BELOW ARE MAINTAINED AND HAVE BEEN DEPRECIATED FOR LED LUMEN DEPRECIATION AND LUMINAIRE DIRT DEPRECIATION. FOR INITIAL FOOTCANDLES, DIVIDE THE READINGS BELOW BY .85.



LEGEND (OUTER to INNER): 0.100, 0.250, 0.500, 1.00, 1.25

CALCULATION SUMMARY										
AREA NAME	DIMENSIONS	GRID / TYPE	# PTS	SPAC	GROUP	AVE	MAX	MIN	MAX/MIN	AVE/MIN
parking	518.00x547.30ft	car parking	113	10.00	<+>	1.95	3.22	0.97	3.31	2.01
		truck parking	99	10.00	<*>	2.01	3.66	0.79	4.60	2.52
		entrance drive	69	10.00	<#>	1.44	2.10	0.83	2.53	1.73

Cinema Dr fire sta (14-0005) LUMINAIRE SCHEDULE						
TYP	SYMBOL	DESCRIPTION	LAMP	LUMENS	MOUNTING/BALLAST	LLF QTY
253A	⊙	GE LIGHTING LED205_3_1/POLE (1) *2053" LED205_3_1/POLE	(1) 4000K	13620	30" MT HT SiteLighter II	0.85 5
253B	⊙	GE LIGHTING LED205_3_2/POLE (2) *2053" LED205_3_1/POLE	(2) 4000K	13620	30" MT HT SiteLighter II	0.85 3



LIGHTING DESIGN TOLERANCE

The calculated footcandle light levels in this lighting design are predicted values and are based on specific information that has been supplied to Duke Energy Progress. Any inaccuracies in the supplied information, differences in luminaire installation, lighted area geometry including elevation differences, reflective properties of surrounding surfaces, obstructions (foliage or otherwise) in the lighted area, or lighting from sources other than listed in this design may produce different results from the predicted values. Normal tolerances of voltage, lamp output, and ballast and luminaire manufacture will also affect results.

Customer approval _____ Date _____



PROPRIETARY & CONFIDENTIAL

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CINEMA DRIVE FIRE STATION	
WILMINGTON NC	
SITE LIGHTING PLAN	
Designed by	DEP LIGHTING SOLUTIONS
Reviewed by	R. Simpkins Scale 1" = 40'
Date	01/14/2014 Size "Arch D"
Description	LED205 fixtures
Drawing No.	14-0005A Sht. 1 OF 1