



- ### UTILITY NOTES
- INSTALL WATERMANS WITH A COVER OF NO LESS THAN 4'-FT. INSTALL WATER SERVICES WITH A COVER OF NO LESS THAN 18" 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 STORAGE TANKS AND 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 AGENCY 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 OSHA REQUIREMENTS.
 - THE CONTRACTOR SHALL PROVIDE AN AS-BUILT SURVEY AND STORMWATER IMPROVEMENTS FOLLOWING CONSTRUCTION.
 - CONTRACTOR SHALL PHASE DEMOLITION AND CONSTRUCTION TO ENSURE UNINTERRUPTED ACCESS AND UTILITY SERVICE TO ADJACENT FACILITIES. COORDINATE WITH THE OWNER.
 - SEE GENERAL NOTES ON EXISTING CONDITIONS AND UTILITIES FOR REQUIREMENTS FOR REMOVAL AND PATCHING OF PAVEMENT FOR UTILITY INSTALLATION.
 - ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH ALL CITY OF WILMINGTON STANDARDS AND SPECIFICATIONS.
 - ALL ROOF DRAINS SHALL BE 6" DIA. WITH MIN. SLOPE INDICATED OTHERWISE. USE DUCTILE IRON WHEN COVER IS 24" OR MORE.
 - ALL SANITARY SEWER SERVICES SHALL BE INSTALLED WITH A 1/4" @ 1.04% MIN. SLOPE UNLESS INDICATED OTHERWISE. USE DUCTILE IRON WHEN COVER IS LESS THAN 4'-FT.
 - THE FOLLOWING PERMITS ARE REQUIRED TO BE OBTAINED FROM THE CITY OF WILMINGTON FIRE SERVICES ADMINISTRATION BY EACH RESPONSIBLE CONTRACTOR PRIOR TO THE START OF WORK. THE "GENERAL CONTRACTOR" SHALL BE RESPONSIBLE TO MAKE SURE ALL SUBS FOLLOW THIS PROCEDURE. THE PERMITS REQUIRED ARE AS FOLLOWS:
 - A) UNDERGROUND SPRING PERMIT (FIRE LINE (S)).
 - B) SPRINKLER PERMIT.
 - C) FIRE ALARM PERMIT.
 - D) KITCHEN HOOD FIRE PROTECTION PERMIT.
 THE "GENERAL CONTRACTOR" SHALL ALSO MAKE SURE THAT ALL HIS SUBS PROPERLY COORDINATE THE INSPECTION PROCESS WITH THE WILMINGTON FIRE DEPARTMENT ADMINISTRATION OFFICE. CONTACT THE PHONE CALL CENTER PRIOR TO ANY DIGGING. 1-800-632-4949.
 - ANY BACKFLOW PREVENTION DEVICES REQUIRED BY THE CITY WILL NEED TO BE ON THE LIST OF APPROVED DEVICES BY USER/OWNER OF ASSE. ALL WATER AND SEWER SERVICE LINES TO BE ABANDONED SHALL BE ABANDONED IN ACCORDANCE WITH OFPA SPECIFICATIONS.
 - A UTILITY OUT PERMIT IS REQUIRED FOR EACH OPEN CUT OF A CITY STREET. CONTACT TRAFFIC ENGINEERING AT 910-341-7886 FOR MORE DETAILS. SEE PAVEMENT REPAIR UTILITY OUT DETAIL ON SHEET C703.

UTILITY LEGEND

EXISTING	PROPOSED
OVERHEAD ELECTRICAL	E
UNDERGROUND ELECTRICAL	UE
GAS	G
SANITARY SEWER	SS
TELEPHONE	T
UNDERGROUND TELEPHONE	UT
WATER	W
FIRE PROTECTION	FP
FORCE MAIN	FM
CHILLED WATER	CW
FOUNDATION DRAIN	FD
FIBER OPTIC	FO
ROOF DRAIN	RD
STORM DRAIN	SD

FIRE & LIFE SAFETY NOTES

- CONTRACTOR SHALL MAINTAIN ALL WEATHER ACCESS FOR EMERGENCY VEHICLES AT ALL TIMES DURING CONSTRUCTION.
- NEW HYDRANTS MUST BE BROUGHT INTO SERVICE PRIOR TO COMBUSTIBLE MATERIALS DELIVERED TO THE JOB SITE.
- HYDRANTS MUST BE WITHIN 100' OF THE FDC (MEASURED AS THE TRUCK DRIVES FOR PRACTICAL USE).
- FDC MUST BE WITHIN 40' OF FIRE APPARATUS PLACEMENT.
- LANDSCAPING OR PARKING CANNOT BLOCK OR IMPIDE THE FDC OR FIRE HYDRANTS. A 3'-FOOT CLEAR SPACE SHALL BE MAINTAINED AROUND THE CIRCUMFERENCE OF THE HYDRANT AND FDC.
- IN ADDITION TO THE STANDARD COMMENTS, ADDITIONAL FIRE PROTECTION AND ACCESSIBILITY REQUIREMENTS MAY BE REQUIRED DUE TO ANY SPECIAL CIRCUMSTANCES CONCERNING THE PROJECT.
- PRIVATE UNDERGROUND FIRE LINES REQUIRE A SEPARATE UNDERGROUND FIRE LINE PERMIT FROM THE WILMINGTON FIRE AND LIFE SAFETY DIVISION 910-343-0598.
- ALL ISOLATION VALVES WITHIN THE "HOT BOX" SHALL BE ELECTRICALLY SUPERVISED. PLEASE WORK CLOSELY WITH YOUR FIRE SPRINKLER AND ALARM INSTALLERS IN REGARDS TO PLUMBING WIRE FOR TAPER SWITCH.

- ### KEY NOTES
- TAPPING SLLEEVE & VALVE ASSEMBLY AND BLOOMING. SEE DETAIL SHEET C711.
 - DOMESTIC WATER METER. SEE DETAIL SHEET C706.
 - 2" FIBRO LF825 R/P OR APPROVED EQUAL WITHIN HEATED ENCLOSURE. SEE ELECTRICAL PLANS FOR ADDITIONAL INFO.
 - 8" FIBRO MASTER SERIES LF800Y REDUCED PRESSURE ZONE DETECTOR ASSEMBLY (RPOA) OR APPROVED EQUAL WITHIN HEATED ENCLOSURE. PROVIDE TAMPER SWITCHES ON ABOVE GRADE VALVES. SEE ELECTRICAL PLANS FOR ADDITIONAL INFO.
 - FIRE HYDRANT ASSEMBLY. SEE DETAIL SHEET C706.
 - THRUST BLOOMING. TYP. SEE DETAIL SHEET C707.
 - GATE VALVE AND VALVE BOX. SEE DETAIL SHEET C707.
 - FIRE DEPARTMENT CONNECTION. SEE DETAIL SHEET C711.
 - EXTEND WATER MAIN TO 12-IN ABOVE FINISH FLOOR FOR FIRE PROTECTION CONNECTION. SEE DETAIL SHEET C711.
 - EXTEND UTILITY TO WITHIN 5'-0" OF BUILDING WALL OR AS INDICATED ON PLUMBING PLANS. REFER TO PLUMBING PLANS FOR LOCATION & INVERT.
 - POST-INDICATOR VALVE W/ TAMPER SWITCH. SEE DETAIL SHEET C711. SEE ELECTRICAL PLANS FOR ADDITIONAL INFO.
 - SANITARY SEWER CLEAN OUT. SEE DETAIL SHEET C708.
 - SITE LIGHT POLE BY DUKE ENERGY. COORDINATE INSTALLATION & SCHEDULE WITH LOCAL UTILITY COMPANY. CONTRACTOR TO RESEED AREAS DISTURBED BY LOCAL UTILITY COMPANY.
 - ROOF DRAIN CLEANOUT. SEE DETAIL SHEET.
 - 2-CONDUITS. 24-INCH MINIMUM COVER. CAP 2'-0" OUTSIDE BACK OF CURB/EDGE OF PAVEMENT. CONTRACTOR SHALL COORDINATE SIZE, MATERIAL AND FINAL LOCATIONS WITH UTILITY COMPANIES AND OTHER TRADES.
 - RECEPTACLE. SEE ELECTRICAL PLANS.

APPROVED CONSTRUCTION PLAN

NAME: _____ DATE: _____

PLANNING: _____

TRAFFIC: _____

FIRE: _____

CITY OF WILMINGTON
NORTH CAROLINA

Public Services • Engineering Division

APPROVED STORMWATER MANAGEMENT PLAN

Date: _____ Permit #: _____

Signed: _____

GRAPHIC SCALE

(IN FEET)
1 inch = 40 ft.

WILMINGTON, NC
**HAYNES / LACEWELL
POLICE AND FIRE
TRAINING FACILITY**
3109 HURST STREET WILMINGTON, NC 28405

DESIGNER
CLARK NEXSEN
213 South Jefferson Street, Suite 1011
Roanoke, Virginia 24011
T: 540-982-0800 F: 540-982-1193
WWW.CLARKNEXSEN.COM
CLARK NEXSEN LICENSE NUMBER: C-1028

CONSULTANT
CLH DESIGN, P.A.
Regency Park
400 Regency Forest Drive
Suite 100
Cary, North Carolina 27518
Phone: (919) 319-6716
Fax: (919) 319-7616
LA: C-106, PE: C-1595

SUBMITTAL
4 MAY 2018

CONSTRUCTION DOCUMENTS

SHEET

**UTILITY PLAN
C501**

DESIGN: ZRP
DRAWN: YA, DL
REVIEW: ZRP, KAL

CN 5938
CLH 16-161