

# ADVANCE AUTO PARTS STORE 105349

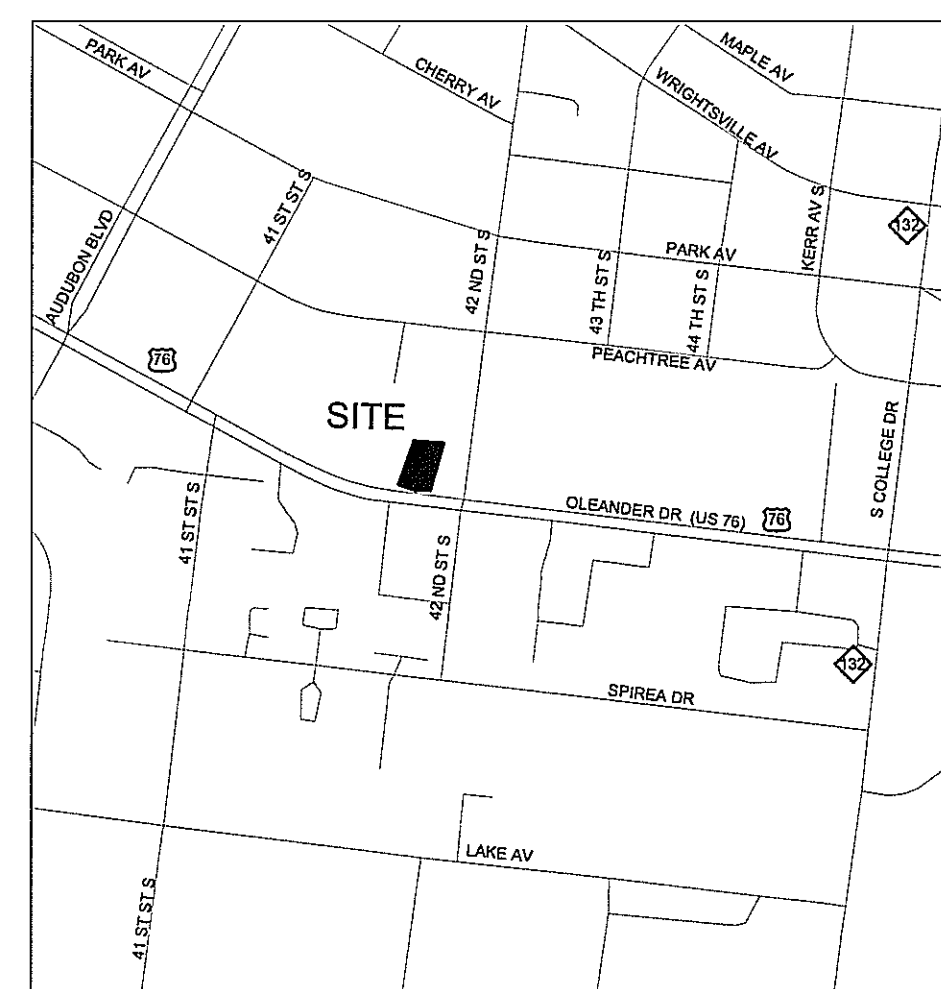
4121 OLEANDER DRIVE  
WILMINGTON, NORTH CAROLINA

## CONSTRUCTION DOCUMENTS

NOVEMBER 2016

FOR

4121 OLEANDER DRIVE, LLC  
1131-B Military Cutoff Road, Wilmington, NC 28405



VICINITY MAP  
NOT TO SCALE

**NOTICE REQUIRED**

ALL EXISTING UNDERGROUND UTILITIES SHALL BE PHYSICALLY LOCATED PRIOR TO THE BEGINNING OF ANY CONSTRUCTION IN THE VICINITY OF SAID UTILITIES.

CONTRACTORS SHALL NOTIFY OPERATORS WHO MAINTAIN UNDERGROUND UTILITY LINES IN THE AREA OF PROPOSED EXCAVATION AT LEAST TWO WORKING DAYS, BUT NOT MORE THAN TEN WORKING DAYS PRIOR TO COMMENCEMENT OF EXCAVATION OR DEMOLITION.

CONTRACTORS SHALL CONTACT OVERHEAD ELECTRIC PROVIDER TO COMPLY WITH FEDERAL OSHA 1910.333 MINIMUM APPROACH DISTANCE TO ENERGIZED POWERLINES AND OSH 29 CFR 1926.1407-1411 MUST BE FOLLOWED.

**CONTACT THESE UTILITIES**

CITY OF WILMINGTON PLANNING & DEVELOPMENT  
ATTN: BRIAN CHAMBERS, PLANNER  
PH: 910-342-2782

ATTN: ZONING INSPECTIONS  
PH: 910-254-0900

PIEDMONT NATURAL GAS  
ATTN: CATHY PLEASANT  
PH: 910-251-2827

EMERGENCY DIAL 911  
POLICE - FIRE - RESCUE

CAPE FEAR PUBLIC UTILITY AUTHORITY (WATER & SEWER)  
ENGINEERING/INSPECTIONS  
PH: 910-332-6550

OPERATIONS/MAINTENANCE  
PH: 910-332-6550

DUKE ENERGY  
DEP CSC PH: 1-800-452-2777

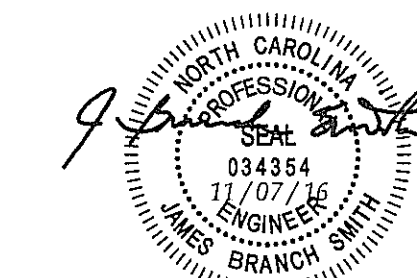
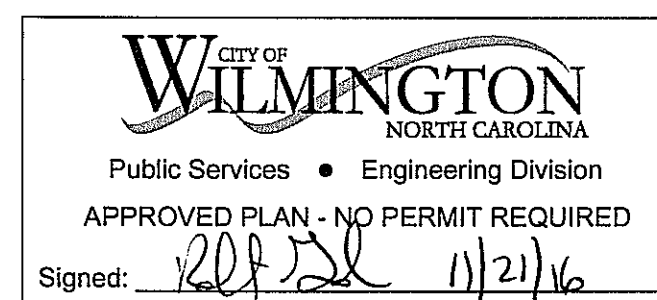
AT&T/BELL SOUTH  
ATTN: JAMES BATSON, ENGINEERING  
PH: 910-341-1621

TIME WARNER CABLE  
PH: 910-763-4636



Know what's below.  
Call before you dig.

For each open utility cut of City streets, a \$325 permit shall be required from the City prior to occupancy and/or project acceptance.



**PROPERTY OWNER/DEVELOPER:**

4121 OLEANDER DRIVE, LLC  
1131-B MILITARY CUTOFF ROAD  
WILMINGTON, NC 28405  
ATTN: CLAUDE ARNOLD OR JASON SWAIN  
PHONE: (910) 256-2211

**LAND SURVEYOR, LANDSCAPE ARCHITECT & CIVIL ENGINEER:**

PARAMOUNTE ENGINEERING, INC.  
122 CINEMA DRIVE  
WILMINGTON, NORTH CAROLINA 28403  
ATTN: J. BRANCH SMITH, PE  
PHONE: (910) 791-6707

**SHEET INDEX**

SHEET NUMBER	SHEET TITLE
	COVER SHEET
C-1.0	GENERAL NOTES
C-2.0	SITE INVENTORY (DEMOLITION) PLAN
C-2.1	SITE AND UTILITY PLAN
C-3.0	GRADING AND DRAINAGE PLAN
C-4.0	DETAILS
L-1.0	LANDSCAPE PLAN

**PARAMOUNTE**  
ENGINEERING, INC.

122 Cinema Drive  
Wilmington, North Carolina 28403  
(910) 791-6707 (O) (910) 791-6760 (F)  
NC License #: C-2846

PROJECT # 15332.PE

RECEIVED

NOV 21 2016

PLANNING DIVISION

RELEASED FOR CONSTRUCTION



**COORDINATION NOTES:**

- 1. THE CONTRACTOR IS REQUIRED TO OBTAIN ANY/ALL PERMITS REQUIRED FOR CONSTRUCTION OF THESE PLANS.
- 2. ALL CONSTRUCTION TO BE IN ACCORDANCE WITH PERMITS ISSUED AND WITH THE CITY OF WILMINGTON, NEW HANOVER COUNTY, CAPE FEAR PUBLIC UTILITY AUTHORITY (CPFAU), AND THE STATE OF NORTH CAROLINA.
- 3. THE CONTRACTOR IS TO ESTABLISH AND CHECK ALL HORIZONTAL AND VERTICAL CONTROLS TO BE USED WITH THE PROJECT. IN ADDITION, THE CONTRACTOR IS TO COMPUTE THE LAYOUT OF THE ENTIRE SITE PLAN IN ADVANCE OF BEGINNING ANY WORK ASSOCIATED WITH THE SUBJECT PLANS. CONTRACTOR SHALL EMPLOY A PROFESSIONAL SURVEYOR TO PERFORM SITE IMPROVEMENT STAKEOUT(S).

- 4. ANYTIME WORK IS PERFORMED OFF-SITE OR WITHIN AN EXISTING EASEMENT, THE CONTRACTOR IS TO NOTIFY THE HOLDER OF SAID EASEMENT AS TO THE NATURE OF PROPOSED WORK AND TO FOLLOW ANY GUIDELINES OR STANDARDS WHICH ARE ASSOCIATED WITH OR REFERENCED IN THE RECORDED EASEMENT.
- 5. CONTRACTOR SHALL REFER TO ARCHITECTURAL DRAWINGS BY OTHERS FOR ALL BUILDING DIMENSIONS AND DETAILS.

**GENERAL NOTES:**

- 1. TREE INVENTORY, BOUNDARY, AND TOPOGRAPHIC SURVEY COMPLETED BY PARAMOUNT ENGINEERING, INC. THE SURVEY SHALL BE FIELD VERIFIED BY CONTRACTOR AND ANY DISCREPANCIES REPORTED TO THE OWNER AND ENGINEER.

- 2. REASONABLE CARE HAS BEEN EXERCISED IN SHOWING THE LOCATION OF EXISTING UTILITIES ON THE PLANS. THE EXACT LOCATION OF ALL EXISTING UTILITIES IS NOT KNOWN IN ALL CASES. THE CONTRACTOR SHALL EXPLORE THE AREA AHEAD OF DITCHING OPERATIONS BY OBSERVATIONS, ELECTRONIC DEVICES, HAND DIGGING AND BY PERSONAL CONTACT WITH THE UTILITY COMPANIES. IN ORDER TO LOCATE EXISTING UTILITIES IN ADVANCE OF TRENCHING OPERATIONS SO AS TO ELIMINATE OR MINIMIZE DAMAGE TO EXISTING UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS RESULTING FROM ANY DAMAGE TO THE EXISTING UTILITY LINES INCLUDING LOSS OF UTILITY REVENUES. CONTRACTOR SHALL ARRANGE FOR TEMPORARY SUPPORT OF EXISTING UTILITIES, SUCH AS POLES, CONDUITS, FIBER OPTIC CABLES, TELEPHONE CABLES, WATER LINES, ETC.

- 3. CONTRACTOR SHALL COMPLY WITH THE LATEST REVISIONS AND INTERPRETATIONS OF THE DEPARTMENT OF LABOR SAFETY AND HEALTH REGULATIONS FOR CONSTRUCTION PROMULGATED UNDER THE OCCUPATIONAL SAFETY AND HEALTH ACT.

- 4. CONTRACTOR SHALL PLAN AND CONSTRUCT WORK SO AS TO CAUSE MINIMUM INCONVENIENCE TO THE OWNER AND THE PUBLIC. THE CONTRACTOR SHALL PROVIDE, ERECT AND MAINTAIN AT ALL TIMES DURING THE PROGRESS OR TEMPORARY SUSPENSION OF WORK, SUITABLE BARRIERS, FENCES, SIGNS OR OTHER ADEQUATE PROTECTION, INCLUDING FLAGMEN AND WATCHMEN AS NECESSARY TO INSURE THE SAFETY OF THE PUBLIC AS WELL AS THOSE ENGAGED IN THE CONSTRUCTION WORK. CONSTRUCTION SIGNING SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF "CONSTRUCTION AND MAINTENANCE OPERATIONS SUPPLEMENT TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" BY THE USDOT.

- 5. ALL MATERIAL CLEARED OR DEMOLISHED BY THE CONTRACTOR IN ORDER TO CONSTRUCT THE WORK SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE PROPERLY DISPOSED OF OFF-SITE.

- 6. ALL WORK BY THE CONTRACTOR SHALL BE WARRANTED BY THE CONTRACTOR FOR A PERIOD OF ONE YEAR AFTER THE OWNER ACCEPTS THE WORK.

- 7. CONTRACTOR SHALL CALL THE NORTH CAROLINA ONE-CALL CENTER AT 811 AN ALLOW THE CENTER TO LOCATE EXISTING UTILITIES BEFORE DIGGING.

- 8. ANY DISCREPANCY IN THIS PLAN AND ACTUAL FIELD CONDITIONS SHALL BE REPORTED TO THE OWNER PRIOR TO START OF CONSTRUCTION. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF ALL SETBACKS, EASEMENTS AND DIMENSIONS SHOWN HEREON BEFORE BEGINNING CONSTRUCTION.

- 9. CONTRACTOR SHALL MAINTAIN THE SITE IN A MANNER SO THAT WORKMEN AND PUBLIC SHALL BE PROTECTED FROM INJURY, AND ADJOINING PROPERTY PROTECTED FROM DAMAGE.

- 10. ACCESS TO UTILITIES, FIRE HYDRANTS, STREET LIGHTING, ETC., SHALL REMAIN UNDISTURBED, UNLESS COORDINATED WITH THE RESPECTIVE UTILITY.

- 11. DO NOT SCALE THIS DRAWING AS IT IS A REPRODUCTION AND SUBJECT TO DISTORTION.

- 12. THE GENERAL CONTRACTOR SHALL REMOVE ALL DEBRIS FROM THE SITE UPON COMPLETION OF THE PROJECT AND AT LEAST ONCE A WEEK DURING CONSTRUCTION.

- 13. THE GENERAL CONTRACTOR SHALL KEEP THE AREA OUTSIDE THE "CONSTRUCTION LIMITS" BROOM CLEAN AT ALL TIMES.

- 14. ALL STREET SURFACES, DRIVEWAYS, CURBETS, CURB AND GUTTERS, ROADSIDE DRAINAGE DITCHES AND OTHER STRUCTURES THAT ARE DISTURBED OR DAMAGED IN ANY MANNER AS A RESULT OF CONSTRUCTION SHALL BE REPLACED OR REPAIRED IN ACCORDANCE WITH THE SPECIFICATIONS.

- 15. CONTRACTOR SHALL MAINTAIN AN "AS-BUILT" SET OF DRAWINGS TO RECORD THE EXACT LOCATION OF ALL PIPING PRIOR TO CONCEALMENT. DRAWINGS SHALL BE GIVEN TO THE OWNER UPON COMPLETION OF THE PROJECT WITH A COPY OF THE TRANSMITTAL LETTER TO THE ENGINEER.

- 16. IF DEPARTURES FROM THE SPECIFICATIONS OR DRAWINGS ARE DEEMED NECESSARY BY THE CONTRACTOR, DETAILS OF SUCH DEPARTURES AND REASONS THEREOF SHALL BE GIVEN TO THE OWNER FOR REVIEW. NO DEPARTURES FROM THE CONTRACT DOCUMENTS SHALL BE MADE WITHOUT THE PERMISSION OF THE OWNER AND ENGINEER.

- 17. CONTRACTOR SHALL VERIFY LOCATION AND ELEVATION OF ALL UNDERGROUND UTILITIES. THE LOCATION OF ALL EXISTING UTILITIES ARE NOT NECESSARILY SHOWN ON PLANS AND WHEN SHOWN ARE ONLY APPROXIMATE. THE CONTRACTOR SHALL ON HIS INITIATIVE AND AT NO EXTRA COST HAVE LOCATED ALL UNDERGROUND LINES AND STRUCTURES AS NECESSARY. NO CLAIMS FOR DAMAGES OR EXTRA COMPENSATION SHALL ACCRUE TO THE CONTRACTOR FROM THE PRESENCE OF SUCH PIPE OTHER OBSTRUCTIONS OR FROM DELAY DUE TO REMOVAL OR REARRANGEMENT OF THE SAME. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO UNDERGROUND STRUCTURES. CONTACT NORTH CAROLINA ONE CALL TOLL FREE 1-800-632-4949 AT LEAST 48 HOURS PRIOR TO CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING ALL NON-SUBSCRIBING UTILITIES.

- 18. THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL INSPECTIONS, CERTIFICATIONS, EQUIPMENT, ETC., THAT MAY BE REQUIRED.

- 19. THE ENGINEER AND/OR OWNER DISCLAIM ANY ROLE IN THE CONSTRUCTION MEANS AND METHODS ASSOCIATED WITH THE PROJECT AS SET FORTH IN THESE PLANS.

- 20. ALL LOT STRIPING AND DIRECTIONAL ARROWS TO BE REFLECTIVE MARKINGS AND SHALL CONFORM TO MUTCD. ALL PARKING STALL MARKINGS AND LANE ARROWS WITHIN THE PARKING AREAS SHALL BE WHITE.

- 21. LANDSCAPE PLANTINGS AT ENTRANCE/EXITS WILL BE INSTALLED AND MAINTAINED SO AS NOT TO INTERFERE WITH SIGHT DISTANCE NEEDS OF DRIVERS IN THE PARKING AREA AND AT ENTRANCE/EXIT LOCATIONS PER LOCAL STANDARDS.

- 22. ALL DIMENSIONS AND RADII ARE TO OUTSIDE FACE OF BUILDING OR TO FACE OF CURB UNLESS OTHERWISE NOTED.

**GENERAL EROSION AND SEDIMENT CONTROL NOTES:**

- 1. THIS PROPERTY IS NOT SUBJECT TO THE NC SEDIMENTATION CONTROL ACT IN REGARDS TO OBTAINING AN EROSION CONTROL PERMIT SINCE THE LAND DISTURBANCE IS UNDER 1.0 ACRE. HOWEVER, ON-SITE SEDIMENTATION CONTROL WILL BE A REQUIREMENT OF THE CONTRACTOR DURING ANY DISTURBANCE AND CONSTRUCTION.
- 2. ALL AREAS DISTURBED BY CONSTRUCTION UNLESS OTHERWISE IMPROVED SHALL BE SODDED OR SEEDED AS INDICATED AND STABILIZED.
- 3. DURING DEWATERING OPERATIONS, WATER SHALL BE PUMPED INTO AN APPROVED FILTERING DEVICE PRIOR TO DISCHARGE TO RECEIVING OUTLET.

**DEMOLITION NOTES:**

- 1. CONTRACTOR TO COORDINATE WITH THE OWNER TO PROPERLY MAINTAIN OR RELOCATE EXISTING SERVICE CONNECTIONS WHEN NECESSARY.
- 2. CONTRACTOR IS TO WALK THE SITE AND BECOME FAMILIAR WITH THE SCOPE OF DEMOLITION REQUIRED. ALL DEMOLITION WORK REQUIRED TO CONSTRUCT NEW SITE IMPROVEMENTS WILL BE PERFORMED BY THE CONTRACTOR AND WILL BE CONSIDERED UNCLASSIFIED EXCAVATION.

- 3. DEMOLITION SHALL INCLUDE BUT IS NOT LIMITED TO THE EXCAVATION, HAULING AND OFFSITE DISPOSAL OF CONCRETE PADS, CONCRETE DITCHES, FOUNDATIONS, SLABS, STEPS, AND STRUCTURES; ABANDONED UTILITIES, BUILDINGS, PAVEMENTS AND ALL MATERIALS CLEARED AND STRIPPED TO THE EXTENT NECESSARY AS DIRECTED BY THE GEOTECHNICAL ENGINEER FOR THE INSTALLATION OF THE NEW IMPROVEMENTS AND WITHIN THE LIMITS OF CLEARING AND GRADING AND AS SHOWN ON THESE PLANS.
- 4. THE CONTRACTOR SHALL PROTECT ALL ADJACENT PROPERTY, STRUCTURES AND UTILITIES ON THE PROPERTY NOT TO BE DEMOLISHED. DAMAGE TO PROPERTIES OF OTHERS DUE TO THE CONTRACTOR'S ACTIVITIES SHALL BE REPLACED IN KIND BY THE CONTRACTOR AT NO COST TO OWNER.

- 5. ELECTRIC, TELEPHONE, SANITARY SEWER, WATER AND STORM SEWER UTILITIES THAT SERVICE OFF-SITE PROPERTIES SHALL BE MAINTAINED DURING THE CONSTRUCTION PROCESS BY THE CONTRACTOR.
- 6. THE CONTRACTOR SHALL PRODUCE A PHOTOGRAPHIC RECORD (DIGITAL) OF DEVELOPMENT COMMENCING WITH A RECORD OF THE SITE AS IT APPEARS BEFORE DEMOLITION HAS BEGUN. AFTERWARDS, A PHOTOGRAPHIC RECORD SHALL BE MAINTAINED WEEKLY DURING CONSTRUCTION AND ENDING WITH A PHOTOGRAPHIC RECORD OF THE DEVELOPMENT AS IT APPEARS AFTER DEMOLITION. THIS RECORD SHALL BE DELIVERED TO THE OWNER.

- 7. EXISTING CURB AND GUTTER, LIGHTS, SIDEWALK, AND UTILITIES NOT INTENDED FOR DEMOLITION SHALL BE MAINTAINED, PROTECTED AND UNDISTURBED DURING DEMOLITION.
- 8. ALL EXISTING IMPROVEMENTS INDICATED OR REQUIRED TO BE DEMOLISHED SHALL INCLUDE REMOVAL FROM THE PROPERTY AND PROPER DISPOSAL.

- 9. CONTRACTOR SHALL COORDINATE RELOCATION OF ALL EXISTING OVERHEAD AND UNDERGROUND UTILITIES INCLUDING GAS, TELEPHONE AND ELECTRIC AND ANY OTHER UTILITIES THROUGH THE SITE WITH THE RESPECTIVE COMPANIES.
- 10. CONTRACTOR SHALL MAINTAIN REQUIRED DISTANCES FROM HIGH VOLTAGE OVERHEAD LINES AND REMOVE TREES SO THEY DO NOT FALL TOWARDS OVERHEAD ELECTRICITY.

- 11. PROVIDE SMOOTH SAW CUT OF EXISTING PAVEMENTS, CURBS AND GUTTERS AND SIDEWALKS TO BE DEMOLISHED.
- 12. ALL DEMOLITION WORK SHALL BE DONE IN STRICT ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS AS WELL AS OSHA REGULATIONS.

- 13. EXISTING FIRE HYDRANTS ON OR NEAR THE SITE ARE TO REMAIN IN SERVICE.
- 14. INFORMATION CONCERNING UNDERGROUND UTILITIES WAS OBTAINED FROM AVAILABLE RECORDS, BUT THE CONTRACTOR MUST DETERMINE THE EXACT LOCATION AND ELEVATIONS BY DIGGING TEST PITS.

- 15. CONTRACTOR SHALL MAINTAIN THE SITE IN A MANNER SO THAT WORKMEN AND PUBLIC SHALL BE PROTECTED FROM INJURY, AND ADJOINING PROPERTY PROTECTED FROM DAMAGE.

- 16. ACCESS TO UTILITIES, FIRE HYDRANTS, STREET LIGHTING, ETC., SHALL REMAIN UNDISTURBED, UNLESS COORDINATED WITH THE RESPECTIVE UTILITY.

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- 19. THE GENERAL CONTRACTOR SHALL KEEP THE AREA OUTSIDE THE "CONSTRUCTION LIMITS" BROOM CLEAN AT ALL TIMES.

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- 25. THE ENGINEER AND/OR OWNER DISCLAIM ANY ROLE IN THE CONSTRUCTION MEANS AND METHODS ASSOCIATED WITH THE PROJECT AS SET FORTH IN THESE PLANS.

- 26. ALL LOT STRIPING AND DIRECTIONAL ARROWS TO BE REFLECTIVE MARKINGS AND SHALL CONFORM TO MUTCD. ALL PARKING STALL MARKINGS AND LANE ARROWS WITHIN THE PARKING AREAS SHALL BE WHITE.

- 27. LANDSCAPE PLANTINGS AT ENTRANCE/EXITS WILL BE INSTALLED AND MAINTAINED SO AS NOT TO INTERFERE WITH SIGHT DISTANCE NEEDS OF DRIVERS IN THE PARKING AREA AND AT ENTRANCE/EXIT LOCATIONS PER LOCAL STANDARDS.

- 28. ALL DIMENSIONS AND RADII ARE TO OUTSIDE FACE OF BUILDING OR TO FACE OF CURB UNLESS OTHERWISE NOTED.

**EROSION CONTROL AND SEQUENCE OF CONSTRUCTION NOTES:**

NOTE: THESE EROSION CONTROL AND SEQUENCE OF CONSTRUCTION NOTES ARE INTENDED FOR EACH "PHASE" OF CONSTRUCTION. THE ORDER AND STEPS TAKEN MUST BE IMPLEMENTED AS EACH PART OF THE PROJECT IS DEVELOPED, EITHER AS A WHOLE OR IN PHASES. ANY EROSION CONTROL DEVICES/MEASURES MUST REMAIN IN PLACE UNTIL THE ENTIRE DISTURBANCE IS STABILIZED AND ALL IMPROVEMENTS WITHIN THE DISTURBANCE LIMITS ARE COMPLETE.

- 1. CONSTRUCT TEMPORARY GRAVEL CONSTRUCTION ENTRANCES(S), ESTABLISH THE LIMITS OF DISTURBANCE, TREE PROTECTION FENCING, AND TEMPORARY SILT FENCE.

- 2. CLEAR AND REMOVE FROM SITE TREES AS DESIGNATED, ROOTS, ROOT MAT, ETC. FROM THE AREA WITHIN THE DESIGNATED CLEARING LIMITS.

- 3. CONSTRUCT TEMPORARY SEDIMENT BASIN(S) AND ASSOCIATED SKIMMER, OUTLET PIPE, SPILLWAY, ETC.

- 4. INSTALL REMAINING EROSION CONTROL MEASURES AS SHOWN ON THE PLANS WITHIN THE AREA DISTURBED. ALL EROSION CONTROL MEASURES MUST BE INSTALLED BEFORE COMMENCING CONSTRUCTION.

- 5. PLANT GRASS OVER ALL GRADED AREAS WITHIN 14 WORKING DAYS OF CEASE OF ANY GRADING ACTIVITY.

- 6. IMMEDIATELY UPON THE INSTALLATION OF ANY STORM DRAINAGE CATCH BASIN, DROP INLET, ETC., THE CONTRACTOR SHALL INSTALL INLET PROTECTION TO PREVENT SEDIMENT FROM ENTERING THE DRAINAGE SYSTEM.

- 7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING AND RESTORING TO PRE-CONSTRUCTION CONDITIONS ANY AREAS OUTSIDE THE PROJECT LIMITS THAT MAY INADVERTENTLY BE DAMAGED DUE TO THE FAILURE OF THE EROSION CONTROL MEASURES.

- 8. DURING GRADING AND AFTER GRADING HAS BEEN COMPLETE, THE CONTRACTOR SHALL CONTINUE TO MAINTAIN PERMANENT AND TEMPORARY EROSION CONTROL MEASURES UNTIL FINAL APPROVAL BY ENGINEER OR EROSION CONTROL INSPECTOR.

- 9. UPON RECEIVING FINAL APPROVAL, THE CONTRACTOR CAN REMOVE TEMPORARY EROSION CONTROL MEASURES.

- 10. THE CONTRACTOR SHALL CONTINUE TO WATER, FERTILIZE, MOW AND MAINTAIN GRASS & PLANTED AREAS UNTIL ALL CONSTRUCTION IS COMPLETE.

**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. ALL CONSTRUCTION ENTRANCES WILL BE PERIODICALLY TOP DRESSED WITH AN ADDITIONAL 2 INCHES OF #4 STONE TO MAINTAIN PROPER DEPTH. ANY SEDIMENT THAT IS TRACKED INTO THE STREET WILL BE IMMEDIATELY REMOVED.

- 3. SEDIMENT WILL BE REMOVED BEHIND THE SEDIMENT FENCE WHEN IT BECOMES HALF-FILLED AT THE FENCE. THE SEDIMENT FENCE WILL BE REPAIRED AS NECESSARY TO MAINTAIN A BARRIER. SILT FENCE STAKES MUST BE STEEL, AND SPACED 6 FEET MAX. WITH EXTRA STRENGTH FABRIC AND NO WIRE BACKING. STAKE SPACING WILL BE 6 FEET MAX. WHEN STANDARD STRENGTH FABRIC AND WIRE BACKING ARE USED. IF ROCK FILTERS (OR EXCEL-SIOR WATTLE) ARE DESIGNED AT LOW POINTS IN THE SEDIMENT FENCE THE ROCK OR WATTLE WILL BE REPAIRED OR REPLACED IF IT BECOMES HALF FULL OF SEDIMENT, NO LONGER DRAINS AS DESIGNED OR IS DAMAGED.

- 4. ALL SEEDED AREAS WILL BE FERTILIZED, RESEED AS NECESSARY, AND MULCHED ACCORDING TO SPECIFICATIONS ON THESE PLANS AND CONTRACT SPECIFICATIONS TO MAINTAIN A VIGOROUS, DENSE VEGETATIVE COVER.

- 5. INLET PROTECTION - INSPECT INLETS AT LEAST WEEKLY AND AFTER EACH SIGNIFICANT 1/4 INCH OR GREATER RAINFALL EVENT. CLEAR THE MESH WIRE OF ANY SEDIMENT AND DEBRIS WHEN IT REACHES HALF OF THE DEPTH OF THE ROCK TO PROVIDE ADEQUATE FLOW FOR SUBSEQUENT RAINS. TAKE CARE NOT TO DAMAGE OR UNDERCUT THE WIRE MESH DURING SEDIMENT REMOVAL. REPLACE STONE AS NEEDED.

- 6. SEDIMENT BASIN/SEDIMENT TRAPS - REMOVE SEDIMENT AND RESTORE THE BASIN TO ITS ORIGINAL DIMENSIONS WHEN IT ACCUMULATES TO WITHIN ONE HALF OF THE DESIGN DEPTH. PLACE SEDIMENT IN AREA WITH SEDIMENT CONTROLS. CHECK THE EMBANKMENT, SPILLWAYS, AND OUTLET FOR EROSION DAMAGE, PIPING, AND SETTLEMENT. MAKE ALL NECESSARY REPAIRS IMMEDIATELY. REMOVE ALL TRASH AND OTHER DEBRIS FROM THE RISER AND POOL AREA.

- 7. SKIMMER - INSPECT SKIMMER AT LEAST ONCE A WEEK AND AFTER EACH RAINFALL TO MAKE SURE THAT THE INTAKE MECHANISM, ORIFICE, OR DISCHARGE PIPE IS NOT CLOGGED WITH TRASH OR SEDIMENT. IF THE BASIN IS DRY, MAKE SURE THAT ANY VEGETATION GROWING ON THE BOTTOM IS NOT HOLDING THE SKIMMER DOWN. TAKE SPECIAL PRECAUTION IN WINTER TO PREVENT THE SKIMMER FROM PLUGGING WITH ICE.

- 8. OUTLET PROTECTION - INSPECT RIP RAP OUTLET STRUCTURES WEEKLY AND AFTER SIGNIFICANT 1/4 INCH OR GREATER RAINFALL EVENTS TO SEE IF ANY EROSION AROUND OR BELOW THE RIP RAP HAS TAKEN PLACE, OR IF STONES HAVE BEEN DISLOADED. IMMEDIATELY MAKE ALL NEEDED REPAIRS TO PREVENT FURTHER DAMAGE.

- 9. EMERGENCY SPILLWAY / FOREBAY PROTECTION - AFTER EVERY HIGH-WATER EVENT INSPECT THE INTEGRITY OF THE LINED SPILLWAY AND THE ADJACENT EARTHEN BANKS. IMMEDIATELY MAKE ALL NEEDED REPAIRS TO PREVENT FURTHER DAMAGE. REPAIR ANY VOIDS IN THE RIP RAP LINED APRONS. RE-ESTABLISH ANY LOOSE STONES, AND FIX GAPS IN THE ADJACENT VEGETATIVE COVER.

- 10. GRASS SWALES - INSPECT SWALES WEEKLY AND AFTER EVERY RAINFALL EVENT. AFTER GRASS HAS BEEN ESTABLISHED INSPECT THE SWALES PERIODICALLY AND AFTER EVERY HEAVY 1/2 INCH OR GREATER RAINFALL EVENT AND REPAIR IMMEDIATELY. INSPECT THE CHANNEL, OUTLET AND ALL ROAD CROSSINGS FOR BANK STABILITY AND EVIDENCE OF PIPING OR SCOUR HOLES. REMOVE ALL SIGNIFICANT SEDIMENT ACCUMULATIONS TO MAINTAIN THE DESIGNED CARRYING CAPACITY. KEEP THE GRASS IN A HEALTHY, VIGOROUS CONDITION AT ALL TIMES, SINCE IT IS THE PRIMARY EROSION PROTECTION FOR THE CHANNEL.

**PERMANENT SEEDING**

GRASS TYPE	LBS/ ACRE	TIME OF SEEDING	FERTILIZER LIMESTONE
BERMUDA, HULLED	10-20	MARCH - AUGUST	BY SOIL TEST
BERMUDA, UNHULLED	35	MARCH - FEB.	BY SOIL TEST
CENTPEDE	10	MARCH - AUGUST	BY SOIL TEST (NO HIGH PH)
TALL FESCUE (COASTAL CULTIVAR RECOMMENDED)	50	MARCH - AUGUST	300 LBS/AC 10-20-20 OR BY SOIL TEST
SLOPES = 2:1 CENTPEDE SERICEA LESPEDEZA	5	JAN - DEC	BY SOIL TEST

**TEMPORARY SEEDING**

GRASS TYPE	LBS/ ACRE	TIME OF SEEDING	FERTILIZER LIMESTONE
RYE GRAIN	50	OCT. - APR.	400 LBS/AC. 10-20-20
SWEET SUDAN GRASS	50	JUNE - AUGUST	400 LBS/AC. 10-20-20
GERMAN OR BROWNTOP MILLET	50	JUNE - AUGUST	400 LBS/AC. 10-20-20
STRAW MULCH AS NEEDED	4,000		

**STABILIZATION TIME FRAMES:**  
IN THE EVENT THAT THE GOVERNING AGENCIES TIMEFRAME FOR STABILIZATION VARY, THE CONTRACTOR SHALL MEET THE MORE STRINGENT REQUIREMENT.

**NEW HANOVER COUNTY LAND QUALITY STABILIZATION TIME FRAME NOTE:**  
DENUDEED AREAS MUST BE STABILIZED WITH FIFTEEN (15) WORKING DAYS OF CEASE OF ANY PHASE OF ACTIVITY. ALL SLOPES MUST BE STABILIZED WITHIN TWENTY-ONE (21) CALENDAR DAYS OF CEASE OF ANY PHASE OF ACTIVITY. THIS INCLUDES SLOPES, SWALES, CHANNELS AND STOCKPILES.

NPDES WATER QUALITY STABILIZATION TIME FRAMES			
SITE AREA DESCRIPTION	STABILIZATION	TIMEFRAME	EXCEPTIONS
PERMETER DITCHES, SWALES, DITCHES AND SLOPES	7 DAYS	NONE	
HIGH QUALITY WATER (HOW) ZONES	7 DAYS	NONE	
SLOPES STEEPER THAN 4:1	7 DAYS	IF SLOPES ARE 10' OR LESS IN LENGTH AND ARE NOT STEEPER THAN 2:1, 14 DAYS ARE ALLOWED	
SLOPES 3:1 OR FLATTER	14 DAYS	7 DAYS FOR SLOPES GREATER THAN 5:1 IN LENGTH	
ALL OTHER AREAS WITH SLOPES FLATTER THAN 4:1	14 DAYS	NONE, EXCEPT FOR PERIMETERS AND HOW ZONES	

**NC ACCESSIBILITY NOTES:**

**GENERAL NOTES:**

- 1. SPECIAL ATTENTION SHALL BE GIVEN TO COMPLIANCE WITH AMERICANS WITH DISABILITIES ACT (2010 ADA STANDARDS), THE NORTH CAROLINA BUILDING CODE(ANSI) A117.1, AND APPLICABLE LOCAL LAWS & REGULATIONS.

- 2. IT IS ESSENTIAL THAT CONTRACTORS ARE AWARE OF THE SITE ACCESSIBILITY REQUIREMENTS. PARAMOUNT ENGINEERING HAS DEVELOPED THESE NOTES AND DETAILS TO ASSURE THAT CONTRACTORS ARE AWARE OF THE REQUIREMENTS AT THE POINT IN TIME WHEN THEY ARE BIDDING THE PROJECT. IN ADDITION, PARAMOUNT ENGINEERING HAS MADE A POINT IN THESE NOTES AND DETAILS, AS WELL AS IN OUR DRAWINGS, TO PROVIDE SLOPES / GRADES AND DIMENSIONS THAT COMPLY WITH THE AMERICANS WITH DISABILITIES ACT (2010 ADA STANDARDS), THE NORTH CAROLINA BUILDING CODE(ANSI) A117.1 AND APPLICABLE LOCAL LAWS & REGULATIONS. IF THESE SLOPES / GRADES AND DIMENSIONS ARE NOT ACHIEVABLE, THE CONTRACTOR IS REQUIRED TO CONTACT THE OWNER IMMEDIATELY AND BEFORE MOVING FORWARD WITH THE WORK.

- 3. THE CONTRACTOR SHALL NOTIFY PARAMOUNT ENGINEERING IMMEDIATELY OF ANY CONFLICT BETWEEN THESE NOTES AND DETAILS AND OTHER PROJECT DRAWINGS, WHETHER BY PARAMOUNT ENGINEERING OR OTHERS. THE CONTRACTOR SHALL NOT PROCEED WITH THE WORK FOR WHICH THE ALLEGED CONFLICT HAS BEEN DISCOVERED UNTIL SUCH ALLEGED CONFLICT HAS BEEN RESOLVED. NO CLAIM SHALL BE MADE BY THE CONTRACTOR FOR DELAY OR DAMAGES AS A RESULT OF RESOLUTION OF ANY SUCH CONFLICT(S).

- 4. THESE ACCESSIBILITY NOTES AND DETAILS ARE INTENDED TO DEPICT SLOPE AND DIMENSIONAL REQUIREMENTS ONLY. REFER TO SIDEWALK, CURBING, AND PAVEMENT DETAILS FOR ADDITIONAL INFORMATION.

**ACCESSIBLE ROUTE NOTES:**

- 1. AT LEAST ONE ACCESSIBLE ROUTE SHALL BE PROVIDED WITHIN THE SITE FROM ACCESSIBLE PARKING SPACES AND ACCESSIBLE PASSENGER LOADING ZONES; PUBLIC STREETS OR SIDEWALKS; AND PUBLIC TRANSPORTATION STOPS TO THE ACCESSIBLE BUILDING OR FACILITY ENTRANCE THEY SERVE.

- 2. AT LEAST ONE ACCESSIBLE ROUTE SHALL CONNECT ACCESSIBLE BUILDINGS, ACCESSIBLE FACILITIES, ACCESSIBLE ELEMENTS, AND ACCESSIBLE SPACES THAT ARE ON THE SAME SITE.

- 3. WALKING SURFACES THAT ARE PART OF AN ACCESSIBLE ROUTE SHALL HAVE A MAXIMUM RUNNING SLOPE OF 5.0% AND A MAXIMUM CROSS SLOPE OF 2.0%.

- 4. ANY WALKING SURFACE THAT IS PART OF AN ACCESSIBLE ROUTE WITH A RUNNING SLOPE GREATER THAN 5.0% IS A RAMP AND SHALL COMPLY WITH THE GUIDELINES FOR RAMPS OR CURB RAMPS.

- 5. TRANSITIONS BETWEEN RAMPS, WALKS, LANDINGS, GUIDELINES OR STREETS SHALL BE FLUSH AND FREE OF ABRUPT VERTICAL CHANGES (1/4 INCH MAXIMUM VERTICAL CHANGE IN LEVEL PERMITTED).

- 6. FLOOR SURFACES SHALL BE STABLE, FIRM AND SLIP RESISTANT.

- 7. THE MINIMUM CLEAR WIDTH OF EXTERIOR ACCESSIBLE ROUTES SHALL BE FORTY-EIGHT (48) INCHES MINIMUM MEASURED BETWEEN HANDRAILS WHERE HANDRAILS ARE PROVIDED (NC BUILDING CODE 1104.1 & 1104.2).

- 8. WHERE AN ACCESSIBLE ROUTE MAKES A 180 DEGREE TURN AROUND AN OBJECT THAT IS LESS THAN FORTY-EIGHT (48) INCHES IN WIDTH, CLEAR WIDTH SHALL BE FORTY-TWO (42) INCHES MINIMUM. WHERE AN ACCESSIBLE ROUTE MAKES A 90 DEGREE TURN DURING THE TURN, AND FORTY-TWO (42) INCHES MINIMUM LEAVING THE TURN. THE CLEAR WIDTH APPROACHING AND LEAVING THE TURN MAY BE THIRTY-SIX (36) INCHES MINIMUM WHEN THE CLEAR WIDTH AT THE TURN IS SIXTY (60) INCHES MINIMUM. \*SEE NOTE 7 ABOVE FOR NC CLEAR WIDTH OF EXTERIOR ACCESSIBLE ROUTES\*

- 9. AN ACCESSIBLE ROUTE WITH A CLEAR WIDTH LESS THAN SIXTY (60) INCHES SHALL PROVIDE PASSING SPACES AT INTERVALS OF TWO HUNDRED (200) FEET MAXIMUM. PASSING SPACES SHALL BE EITHER A SIXTY (60) INCH MINIMUM BY SIXTY (60) INCH MINIMUM SPACE OR AN INTERSECTION OF TWO (2) WALKING SURFACES THAT PROVIDE A COMPLIANT T-SHAPED TURNING SPACE. PROVIDED THE BASE AND ARMS OF THE T-SHAPED SPACE EXTEND FORTY-EIGHT (48) INCHES MINIMUM BEYOND THE INTERSECTION.

- 10. DOORS, DOORWAYS AND GATES THAT ARE PART OF AN ACCESSIBLE ROUTE SHALL COMPLY WITH THE AMERICANS WITH DISABILITIES ACT (2010 ADA STANDARDS), THE NORTH CAROLINA BUILDING CODE(ANSI) A117.1, AND APPLICABLE LOCAL LAWS & REGULATIONS.

- 11. DIRECTIONAL SIGNAGE INDICATING THE ROUTE TO THE NEAREST ACCESSIBLE BUILDING ENTRANCE SHALL BE PROVIDED AT INACCESSIBLE BUILDING ENTRANCES.

- 12. WHERE POSSIBLE, DRAINAGE INLETS SHALL NOT BE LOCATED ON AN ACCESSIBLE ROUTE. IN THE EVENT THAT A DRAINAGE INLET MUST BE LOCATED ON AN ACCESSIBLE ROUTE, THE GRATE SHALL COMPLY WITH THE AMERICANS WITH DISABILITIES ACT (2010 ADA STANDARDS), A117.1, THE NC BUILDING CODE, AND APPLICABLE LOCAL LAWS & REGULATIONS.

**RAMP NOTES:**

- 1. ANY PART OF AN ACCESSIBLE ROUTE WITH A RUNNING SLOPE GREATER THAN 5% SHALL BE CONSIDERED A RAMP.
- 2. THE MAXIMUM RUNNING SLOPE FOR A RAMP SHALL BE 8.33% AND THE MAXIMUM CROSS SLOPE SHALL BE 2.0%.

- 3. THE CLEAR WIDTH OF AN EXTERIOR RAMP RUN SHALL BE FORTY EIGHT INCHES (NC BUILDING CODE 1104.1). WHERE HANDRAILS ARE PROVIDED ON THE RAMP RUN, THE CLEAR WIDTH SHALL BE MEASURED BETWEEN THE HANDRAILS.

- 4. THE RISE FOR ANY RAMP RUN SHALL BE THIRTY (30) INCHES MAXIMUM.

- 5. LANDINGS SHALL BE PROVIDED AT THE TOP AND BOTTOM OF RAMPS. LANDINGS SHALL HAVE A SLOPE NOT STEEPER THAN 2.0% IN ANY DIRECTION. THE LANDING CLEAR WIDTH SHALL BE AT LEAST AS WIDE AS THE WIDEST RAMP RUN LEADING TO THE LANDING. THE LANDING CLEAR LENGTH SHALL BE SIXTY (60) INCHES LONG MINIMUM. RAMPS THAT CHANGE DIRECTION BETWEEN RUNS AT LANDINGS SHALL HAVE A CLEAR LENGTH OF SIXTY (60) INCHES BY SIXTY (60) INCHES MINIMUM.

- 6. RAMP RUNS WITH A RISE GREATER THAN SIX (6) INCHES SHALL HAVE HANDRAILS ON BOTH SIDES COMPLYING WITH THE AMERICANS WITH DISABILITIES ACT (2010 ADA STANDARDS), THE NC BUILDING CODE(ANSI) A117.1, AND APPLICABLE LOCAL LAWS & REGULATIONS.

- 7. FLOOR SURFACES OF RAMPS AND LANDINGS SHALL BE STABLE, FIRM AND SLIP RESISTANT.

- 8. EDGE PROTECTION COMPLYING WITH AMERICANS WITH DISABILITIES ACT (2010 ADA STANDARDS), THE NC BUILDING CODE(ANSI) A117.1, AND APPLICABLE LOCAL LAWS & REGULATIONS SHALL BE PROVIDED ON EACH SIDE OF RAMP RUNS AND ON EACH SIDE OF RAMP LANDINGS.

- 9. WHERE DOORWAYS ARE LOCATED ADJACENT TO A RAMP LANDING, MANEUVERING CLEARANCES REQUIRED BY THE AMERICANS WITH DISABILITIES ACT (2010 ADA STANDARDS), THE NC BUILDING CODE(ANSI) A117.1 SHALL BE PERMITTED TO OVERLAP THE REQUIRED LANDING AREA. WHERE DOORS THAT ARE SUBJECT TO LOCKING ARE ADJACENT TO A RAMP LANDING, LANDINGS SHALL BE SIZED TO PROVIDE A COMPLIANT TURNING SPACE.

**CURB RAMP NOTES:**

- 1. THE MAXIMUM RUNNING SLOPE OF A CURB RAMP SHALL BE 8.33% AND THE MAXIMUM CROSS SLOPE SHALL BE 2.0%.
- 2. COUNTER SLOPES OF ADJOINING GUTTERS AND ROAD SURFACES IMMEDIATELY ADJACENT TO THE CURB RAMP SHALL NOT BE STEEPER THAN 5%. THE ADJACENT SURFACES AT TRANSITIONS AT CURB RAMPS TO WALKS, GUTTERS AND STREETS SHALL BE AT THE SAME LEVEL.

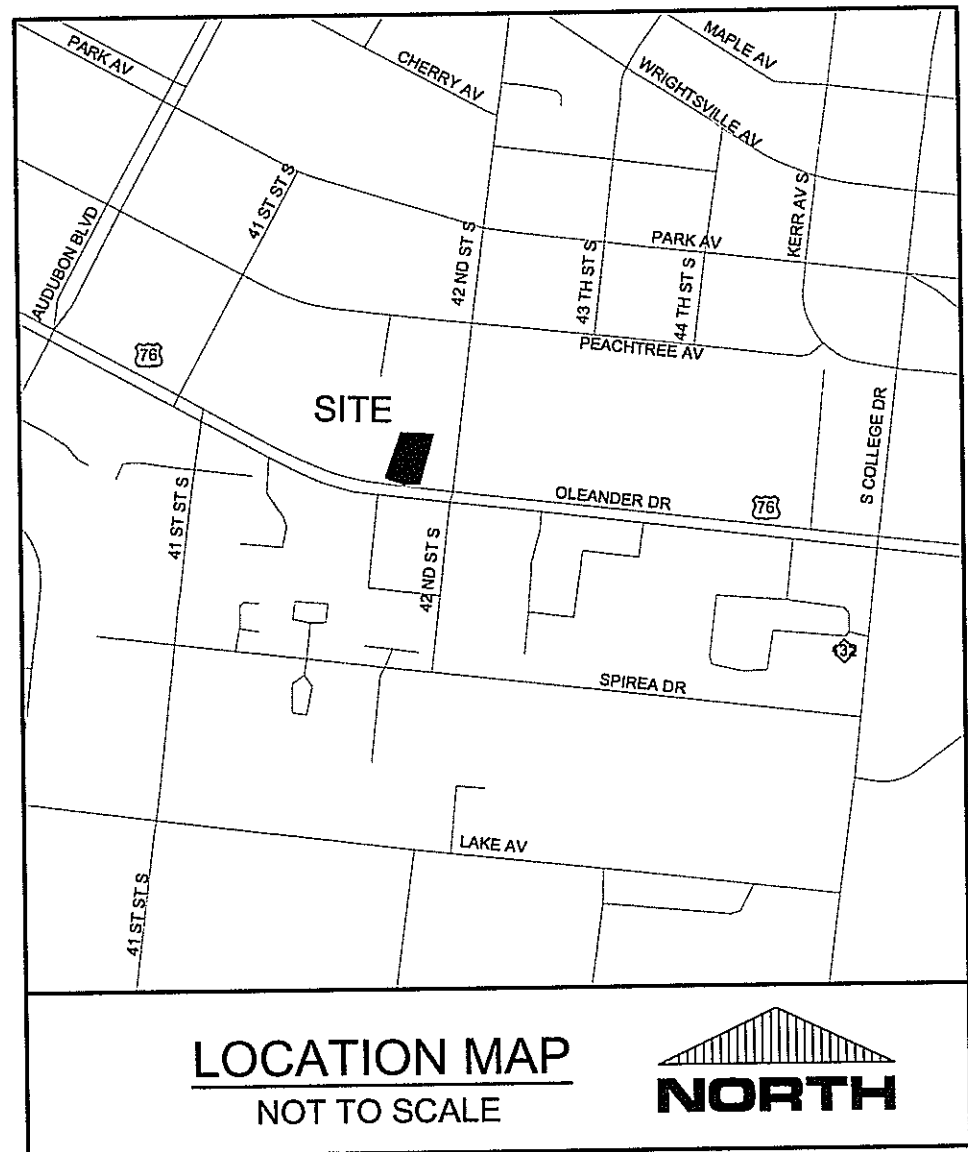
- 3. THE CLEAR WIDTH OF A CURB RAMP SHALL BE 36 INCHES (36) MINIMUM. EXCLUSIVE OF FLARED SIDES, IF PROVIDED. \*NOTE NC BUILDING CODE REQUIRES EXTERIOR ACCESSIBLE ROUTES TO BE 48 INCHES MINIMUM WIDE (1104











- LEGEND:**
- OHE OVERHEAD ELECTRIC
  - BURIED TELEPHONE LINE
  - G BURIED GAS LINE
  - UV BURIED TV CABLE
  - FB BURIED FIBER OPTIC
  - W WATER LINE
  - SS SANITARY SEWER LINE
  - SD STORM DRAINAGE LINE
  - X FENCE (TYPE AS SPECIFIED)
  - - - EXISTING CONTOUR
  - - - RIGHT OF WAY/BOUNDARY
  - - - BOUNDARY LINE
  - - - PROPOSED SETBACKS
  - - - PROPOSED BUFFERSEASMENTS
  - - - DRAINAGE FLOW ARROWS
  - PROPOSED BUILDING
  - CONCRETE PAVEMENT
  - SIDEWALK
  - ASPHALT PAVEMENT
  - TC=40.50 EP=40.00 SPOT ELEVATION
- SPOT GRADE LEGEND:**
- TC = TOP OF CURB ELEVATION
  - GC = GUTTER CURB (FLOW LINE) ELEVATION
  - PG = PROPOSED GRADE (GROUND)
  - PV = PROPOSED PAVEMENT
  - EP = EDGE OF PAVEMENT
  - EC = EDGE OF CONCRETE
  - HP = HIGH POINT ELEVATION
  - LP = LOW POINT ELEVATION
  - TW = TOP OF WALK (SIDEWALK) ELEVATION
  - CL = CENTERLINE
  - INV = INVERT
  - TWL = TOP OF WALL ELEVATION
  - BWL = BOTTOM OF WALL ELEVATION
  - (EQ) = EXISTING GRADE
  - (XX) = EXISTING ELEVATIONS, TYP.

**EROSION CONTROL AND GRADING NOTES:**

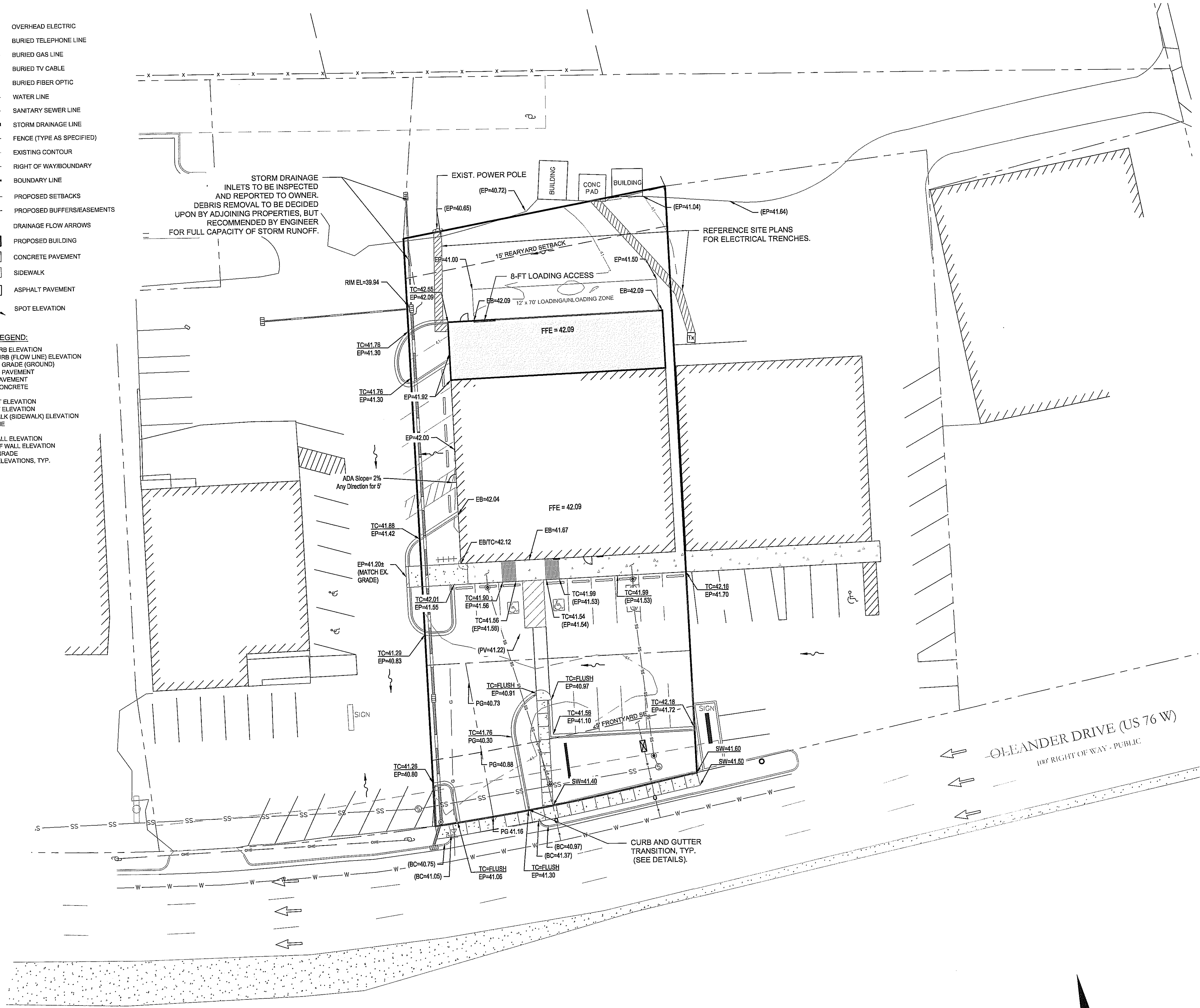
- THERE IS NO EROSION CONTROL PERMIT NECESSARY SINCE LAND DISTURBANCE IS LESS THAN 1.0 ACRE. HOWEVER, FOLLOW GUIDELINES AND GENERAL NOTES SHEET FOR GRADING, DRAINAGE, AND EROSION CONTROL.
- CONTRACTOR SHALL COORDINATE WITH OWNER OR OWNER'S REPRESENTATIVE REGARDING THE SITE'S EXISTING GRADE AFTER DEMOLITION OF THE REAR STRUCTURES.

**ASPHALT, CONCRETE, AND BUILDING PAD NOTES:**

- SITE CONTRACTOR SHALL STRIP EXISTING PAVEMENT AND ANY UNSUITABLE MATERIAL AND PROVIDE OUTFILL OPERATIONS TO PROVIDE A COMPACTED CONTROLLED SUBGRADE IN (PROPOSED PAVEMENT AND STRUCTURAL AREAS, IN ACCORDANCE WITH A GEOTECHNICAL REPORT FROM OWNER OR FIELD DIRECTIONS BY ENGINEER.

**STORMWATER NOTE:**

- THIS PROJECT DOES NOT REQUIRE A STATE STORMWATER PERMIT OR A STORMWATER MANAGEMENT PERMIT WITH THE CITY OF WILMINGTON. A DRAINAGE PLAN WILL NOT BE REQUIRED EITHER SINCE PROPOSED IMPERVIOUS AREAS ARE TO BE LESS THAN EXISTING IMPERVIOUS ON THE PROPERTY. REFERENCE EXISTING STORM DRAINAGE AND NOTES FOR MAINTENANCE.

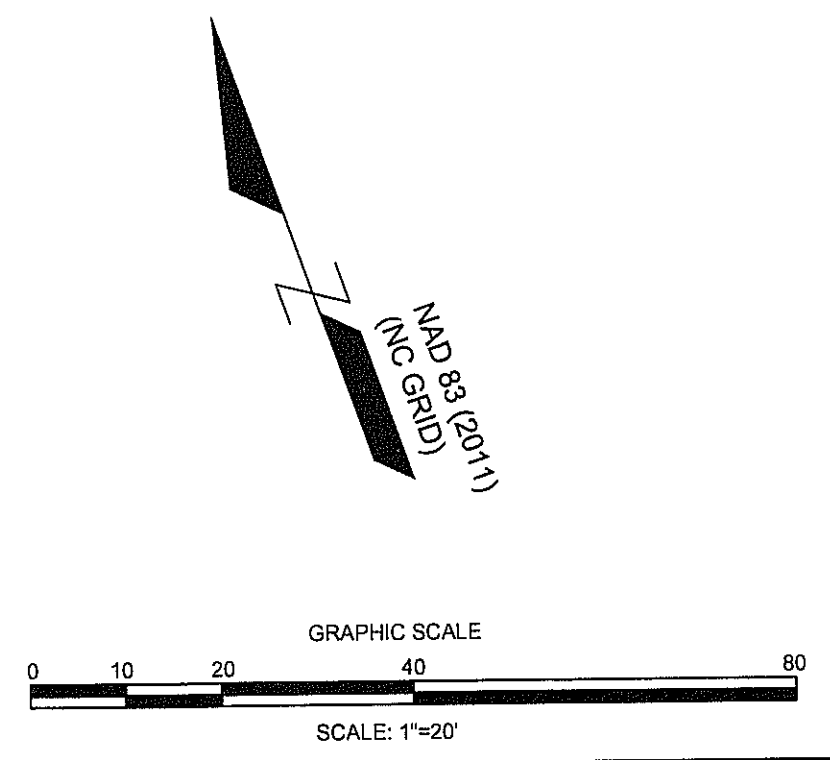


For each open utility cut of City streets, a \$325 permit shall be required from the City prior to occupancy and/or project acceptance.

**WILMINGTON**  
NORTH CAROLINA  
Public Services • Engineering Division  
APPROVED PLAN - NO PERMIT REQUIRED  
Signed: *[Signature]* 11/21/16

**Approved Construction Plan**

Name: *[Signature]* Date: 11/15/16  
 Planning: *[Signature]*  
 Traffic: *[Signature]*  
 Fire: *[Signature]*



RELEASED FOR CONSTRUCTION

**PARAMOUNT ENGINEERING**  
122 Cinema Drive  
Wilmington, North Carolina 28403  
(910) 791-6707 (O) (910) 791-6700 (F)  
NC License #: C-2846

**CLIENT INFORMATION:**  
4121 OLEANDER DRIVE, LLC  
1131-B MILITARY CUTOFF ROAD  
WILMINGTON, NC 28405

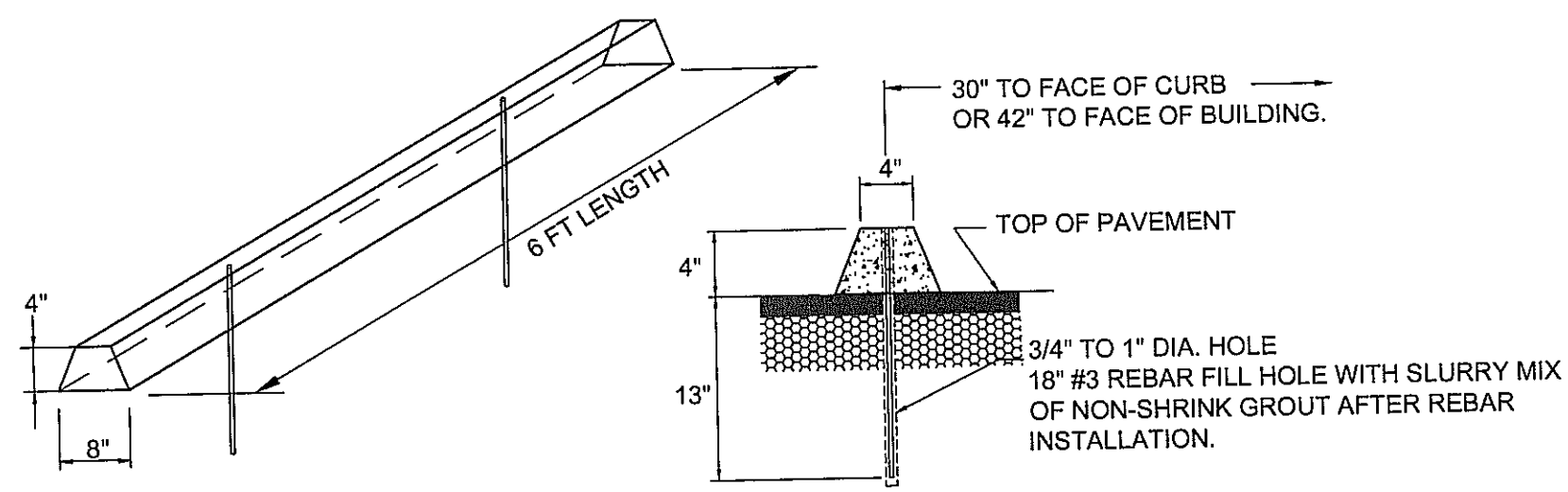
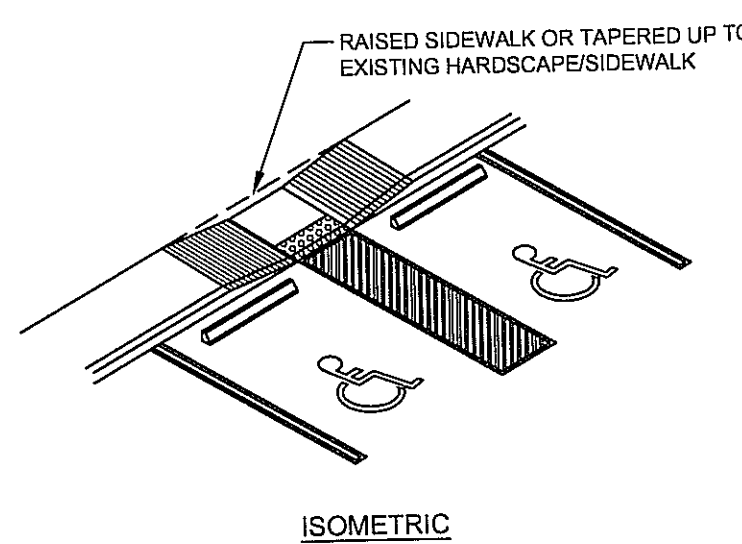
**GRADING AND DRAINAGE PLAN**  
4121 OLEANDER DRIVE  
CITY OF WILMINGTON  
NEW HANOVER COUNTY, NC

**PROJECT STATUS:**  
CONCEPTUAL LAYOUT: [ ]  
PRELIMINARY LAYOUT: [ ]  
RELEASED FOR CONSTRUCTION: [ ]

**DRAWING INFORMATION:**  
DATE: 11/15/16  
SCALE: AS SHOWN  
DESIGNED: [ ]  
CHECKED: [ ]

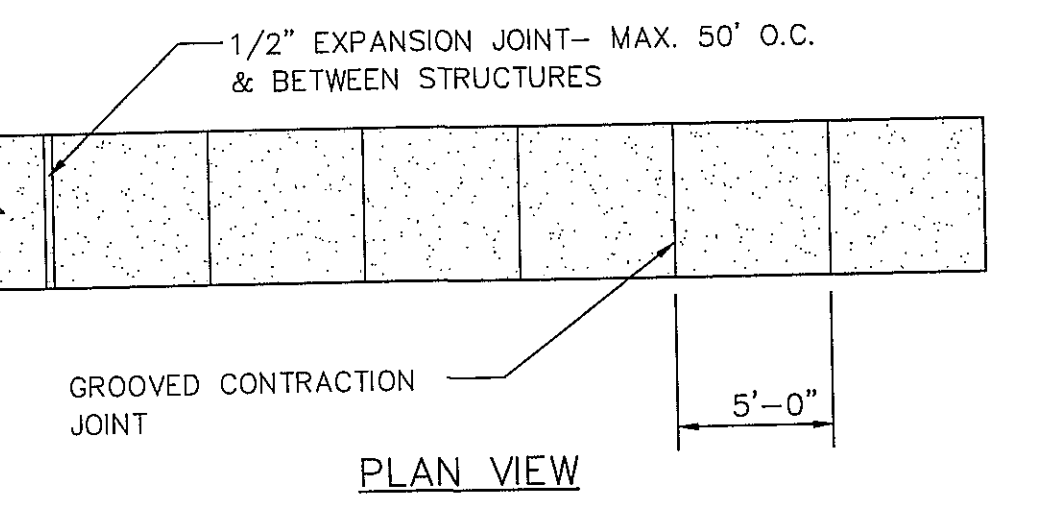
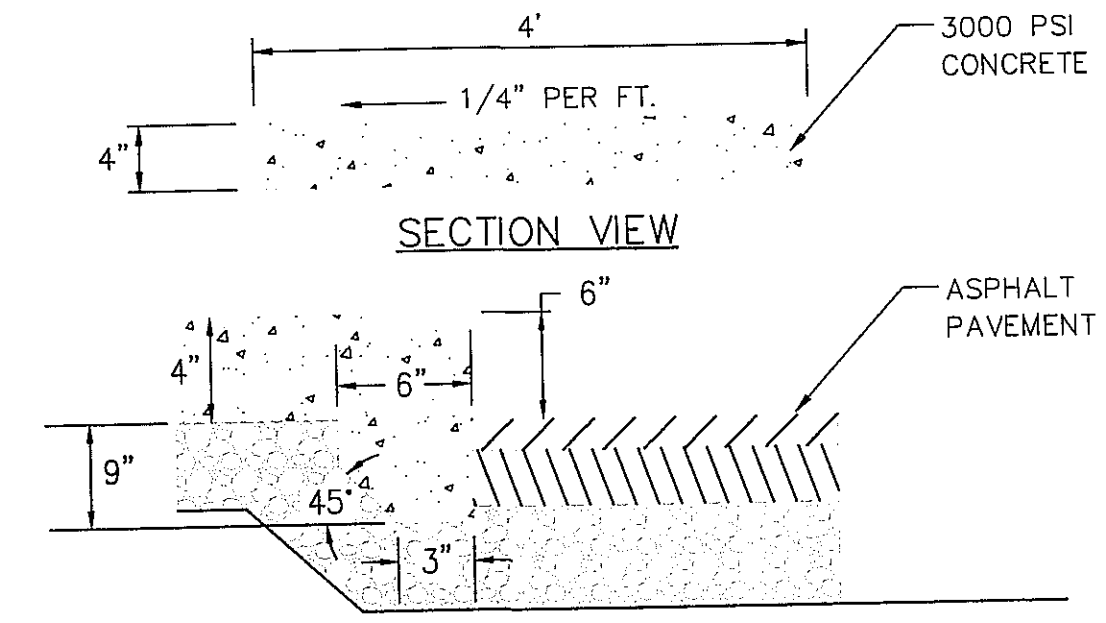
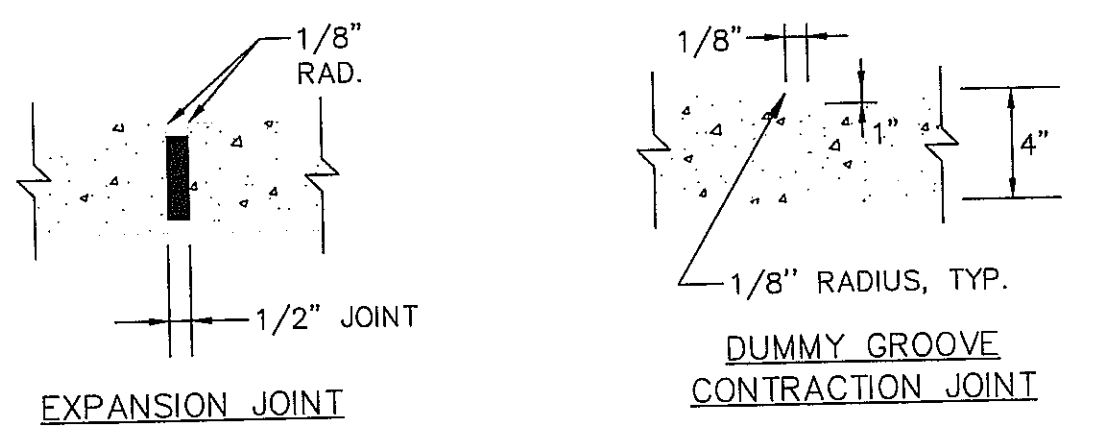
**SEAL:**  
NORTH CAROLINA PROFESSIONAL ENGINEER  
034354  
11/07/16  
[Signature]

**C-3.0**  
PEI JOB#: 15332.PE



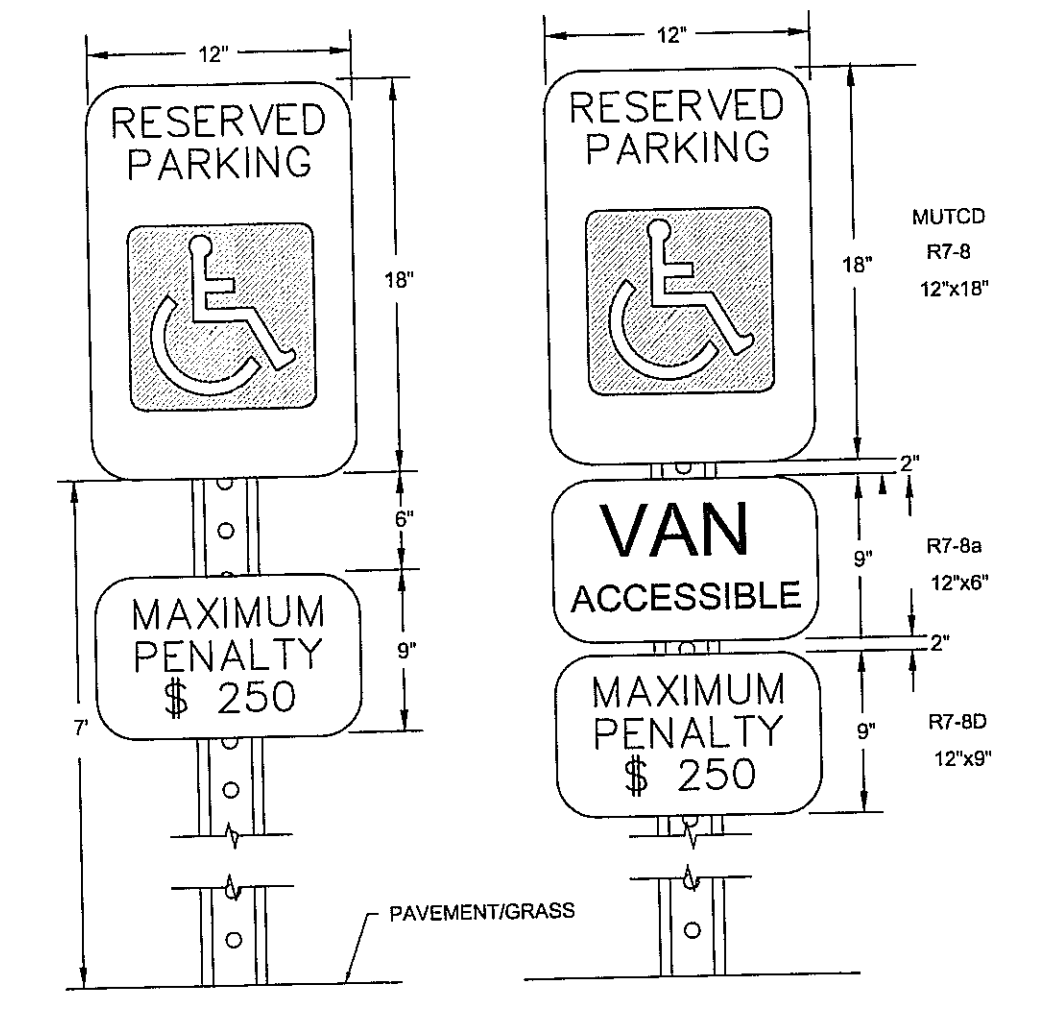
NOTES:  
 1. REBAR SPACING AND HOLE SIZES SHALL BE COORDINATED WITH WHEEL STOP MANUFACTURER.  
 2. REFER TO ADVANCE AUTO STANDARDS AND SPECIFICATIONS.

CONCRETE WHEEL STOP DETAIL  
 NOT TO SCALE



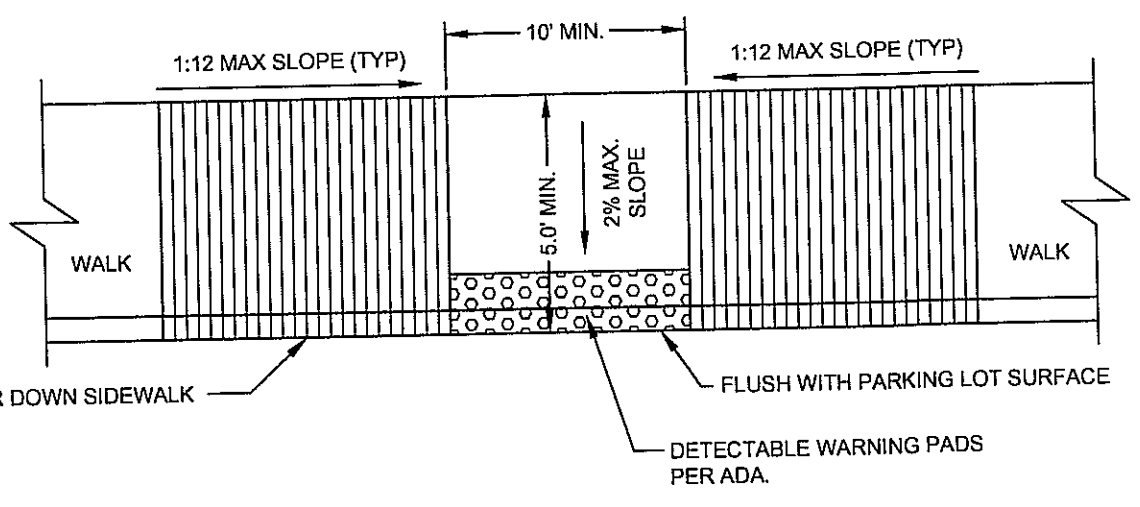
NOTES:  
 1. REFER TO ADVANCE AUTO STANDARDS AND SPECIFICATIONS FOR ADDITIONAL REINFORCEMENT REQUIREMENTS.

SIDEWALK AND TURN-DOWN WALK DETAILS  
 NOT TO SCALE



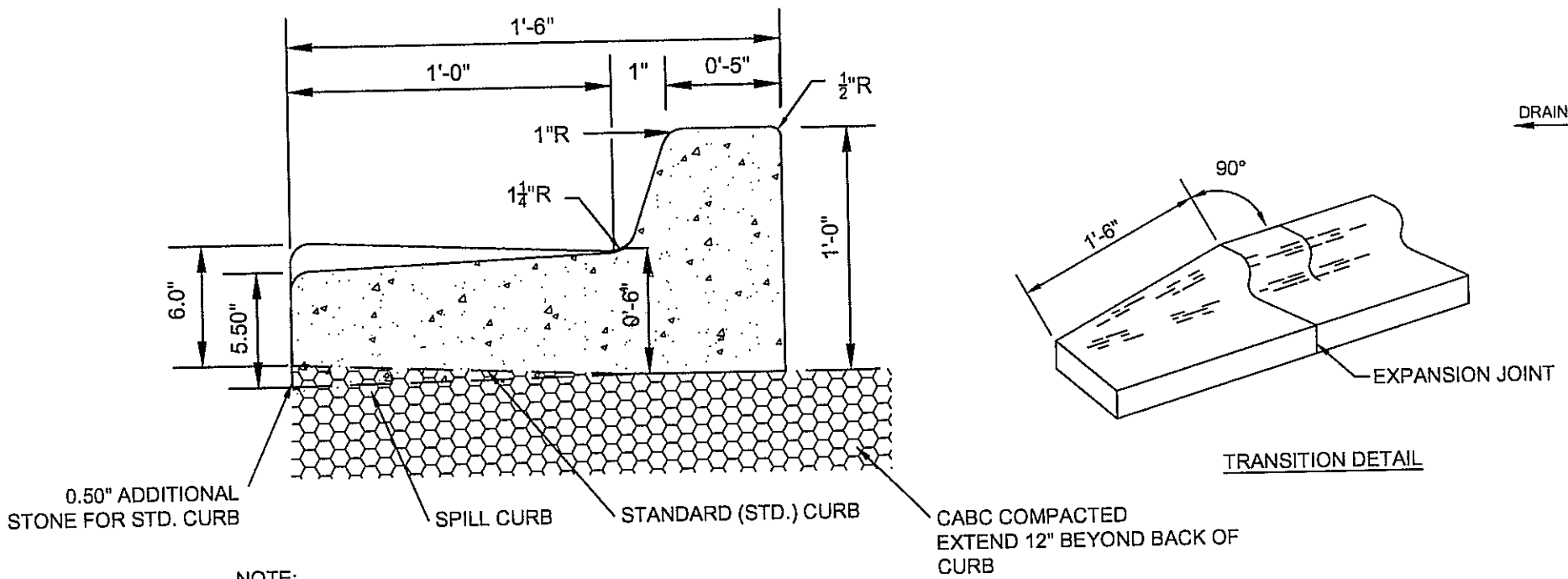
NOTES:  
 1. METAL POST AND ALL HARDWARE SHALL BE GALVANIZED STEEL, ASTM A307-90.  
 2. POST HOLES SHALL BE FILLED WITH GRANULAR BACKFILL IN 3-INCH TO 4-INCH LIFTS. THOROUGHLY HAND TAMP EACH LIFT AND CROWN BACKFILL AT TOP TO SHED WATER.  
 3. CONCRETE FOR FOOTING SHALL BE PORTLAND CEMENT AND HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI.  
 4. SIGNS SHALL BE CONSTRUCTED OF ALUMINUM, TYPE 6061-T6 AND IN CONFORMANCE WITH ASTM STD B-209. THICKNESS SHALL BE 0.80 INCHES.  
 5. TOP EDGE TREATMENT FILM SHALL BE 3" WIDE, CLEAR AND TRANSPARENT WITH A SUB-RESISTANT PRESSURE SENSITIVE NON-YELLOWING ADHESIVE, "SKOTCHCAL" TRANSPARENT FILE #639.  
 6. REFLECTIVE FACING MATERIAL SHALL BE SCOTCHLITE HIGH INTENSITY, MANUFACTURED BY 3M COMPANY.  
 7. SIGN LETTERING SHALL BE NPS MODIFIED CLARENDON TYPEFACE. UPPERCASE LETTERS SHALL BE 3.75" HEIGHT AND LOWERCASE LETTERS SHALL BE 2.5" HEIGHT WITH 3.75" SPACING BETWEEN LINES.  
 8. CORNER RADIUS OF SIGNS SHALL BE 2.5". ARROWS SHALL BE 5.625" LONG BY 3.75" HIGH.  
 9. MOUNT ON BUILDING OR METAL POST AS DIRECTED.

HANDICAP SIGNAGE  
 NOT TO SCALE



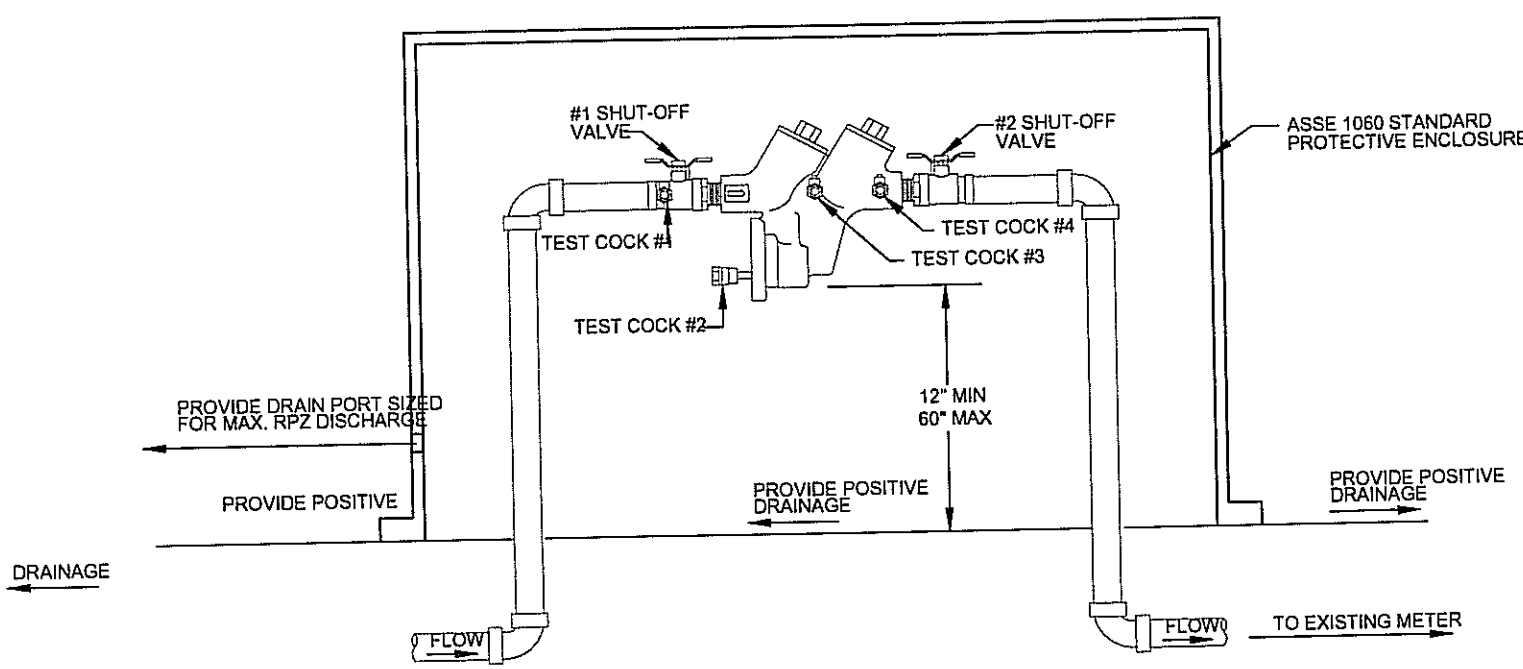
NOTE: REFER TO ADVANCE AUTO SITE DETAILS FOR PAVEMENT STRIPING.

HANDICAP CURB ACCESS DETAIL  
 NOT TO SCALE



NOTE:  
 SPILL CURB SHOULD BE USED FOR THIS PROJECT UNLESS CONTRACTOR ASKS FOR FIELD DIRECTIVE ON STANDARD CURB.

18\"/>
 NOT TO SCALE



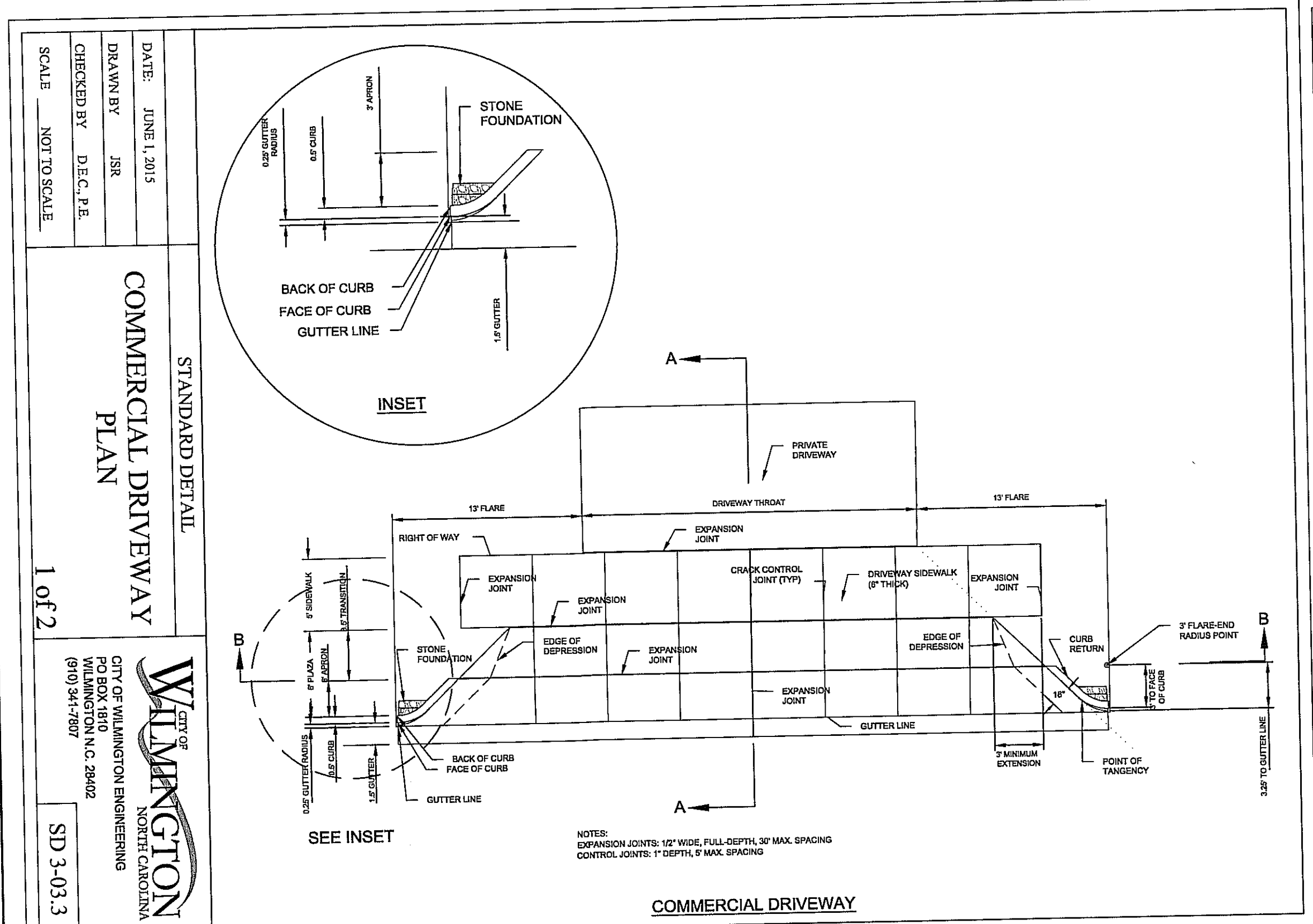
BACKFLOW PREVENTION DEVICE NOTES:  
 1. THE BACKFLOW PREVENTION DEVICE MUST BE INSTALLED IN AN ACCESSIBLE LOCATION TO FACILITATE PERIODIC FIELD TESTING AND MAINTENANCE.  
 2. THE LOCATION SELECTED SHOULD HAVE ADEQUATE DRAINAGE FOR RELIEF VALVE DISCHARGE. THE DEVICE SHALL NOT BE PLACED WHERE IT MAY BECOME SUBMERGED IN STANDING WATER.  
 3. INSTALL THE DEVICE IN A HORIZONTAL POSITION WITH ADEQUATE CLEARANCE FROM WALLS AND/OR OBSTRUCTIONS. FOR TESTING AND MAINTENANCE, A 12" TO 30" CLEARANCE BETWEEN THE LOWER MOST PORTION OF THE DEVICE AND FLOOR GRADE OR FLOOR SHALL BE PROVIDED.  
 4. NO UNDERGROUND INSTALLATIONS ALLOWED.  
 5. REFERENCE CFFUA UTILITY STANDARDS AND SPECIFICATIONS FOR OTHER REQUIREMENTS.

OUTDOOR HORIZONTAL INSTALLATION -  
 REDUCED PRESSURE PRINCIPLE ASSEMBLY  
 NOT TO SCALE

For each open utility cut of City streets, a \$325 permit shall be required from the City prior to occupancy and/or project acceptance.

**CITY OF WILMINGTON**  
 NORTH CAROLINA  
 Public Services • Engineering Division  
 APPROVED PLAN - NO PERMIT REQUIRED  
 Signed: *[Signature]* 11/21/16

**Approved Construction Plan**  
 Name: *[Signature]* Date: 11/15/16  
 Planning: *[Signature]*  
 Traffic: *[Signature]*  
 Fire: *[Signature]* 11/17/16

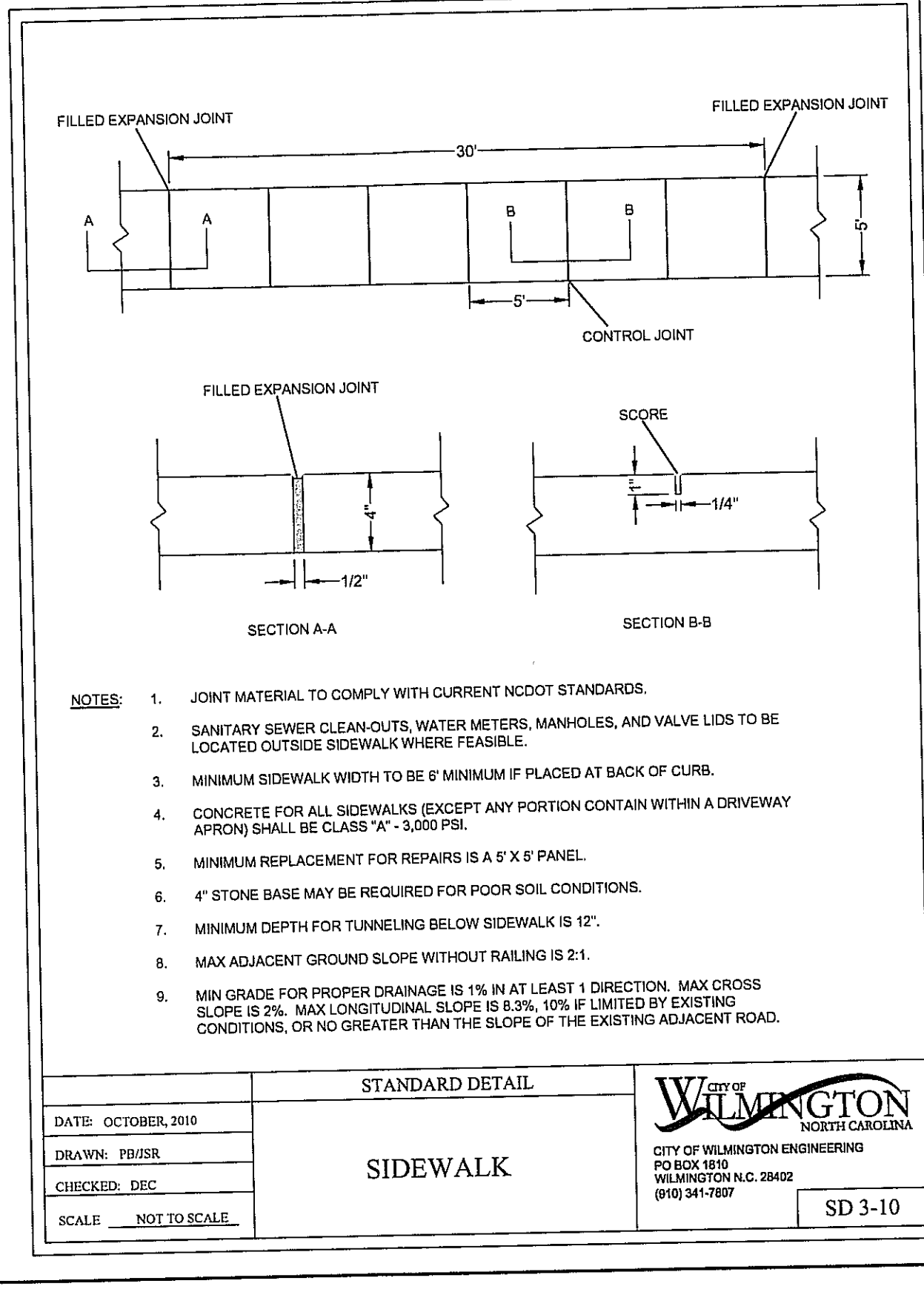
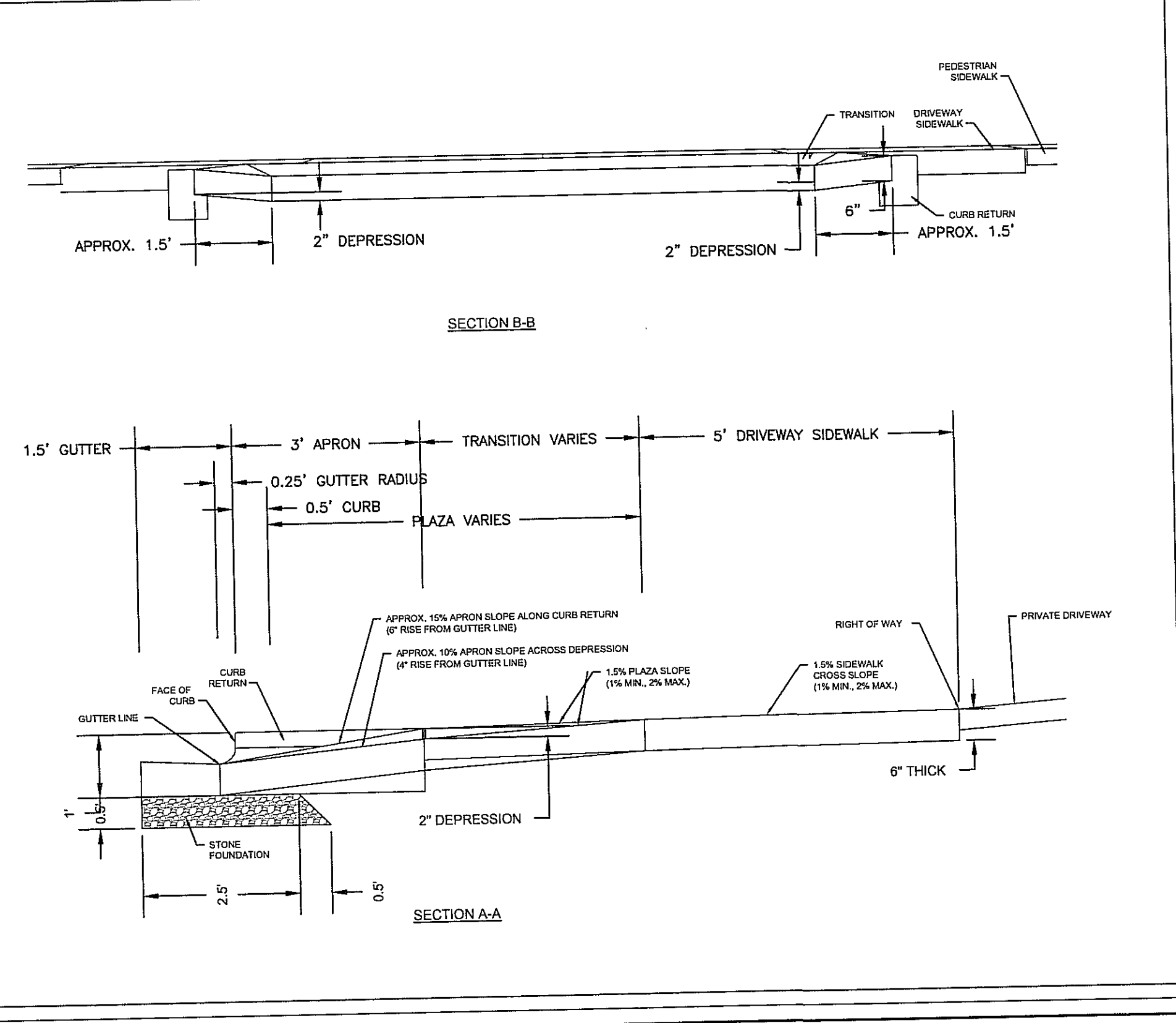


NOTES:  
 EXPANSION JOINTS: 12" WIDE, FULL-DEPTH, 30" MAX. SPACING  
 CONTROL JOINTS: 1" DEPTH, 9" MAX. SPACING

COMMERCIAL DRIVEWAY

DATE: APRIL, 2015  
 DRAWN BY: JSR  
 CHECKED BY: D.E.C., P.E.  
 SCALE: NOT TO SCALE

**CITY OF WILMINGTON**  
 NORTH CAROLINA  
 ENGINEERING DIVISION  
 2 OF 2  
 SD 3-03.4



NOTES:  
 1. JOINT MATERIAL TO COMPLY WITH CURRENT NCDOT STANDARDS.  
 2. SANITARY SEWER CLEAN-OUTS, WATER METERS, MANHOLES, AND VALVE LIDS TO BE LOCATED OUTSIDE SIDEWALK WHERE FEASIBLE.  
 3. MINIMUM SIDEWALK WIDTH TO BE 6' MINIMUM IF PLACED AT BACK OF CURB.  
 4. CONCRETE FOR ALL SIDEWALKS (EXCEPT ANY PORTION CONTAIN WITHIN A DRIVEWAY APRON) SHALL BE CLASS "A" - 3,000 PSI.  
 5. MINIMUM REPLACEMENT FOR REPAIRS IS A 6' X 6' PANEL.  
 6. 4" STONE BASE MAY BE REQUIRED FOR POOR SOIL CONDITIONS.  
 7. MINIMUM DEPTH FOR TUNNELING BELOW SIDEWALK IS 12".  
 8. MAX ADJACENT GROUND SLOPE WITHOUT RAILING IS 2:1.  
 9. MIN GRADE FOR PROPER DRAINAGE IS 1% IN AT LEAST 1 DIRECTION. MAX CROSS SLOPE IS 2%. MAX LONGITUDINAL SLOPE IS 8.3%, 10% IF LIMITED BY EXISTING CONDITIONS, OR NO GREATER THAN THE SLOPE OF THE EXISTING ADJACENT ROAD.

DATE: OCTOBER, 2010  
 DRAWN: PBR/SR  
 CHECKED: DEC  
 SCALE: NOT TO SCALE

**CITY OF WILMINGTON**  
 NORTH CAROLINA  
 ENGINEERING DIVISION  
 11/07/16  
 SD 3-10

REVISIONS:

CLIENT INFORMATION:  
 4121 OLEANDER DRIVE, LLC  
 1131-B MILITARY CUTOFF ROAD  
 WILMINGTON, NC 28405

**PARAMOUNT ENGINEERING**  
 122 Cinema Drive  
 Wilmington, North Carolina 28403  
 (910) 791-6707 (O) (910) 791-6760 (F)  
 NC License #: C-2846

DETAILS  
 4121 OLEANDER DRIVE  
 CITY OF WILMINGTON  
 NEW HANOVER COUNTY, NC

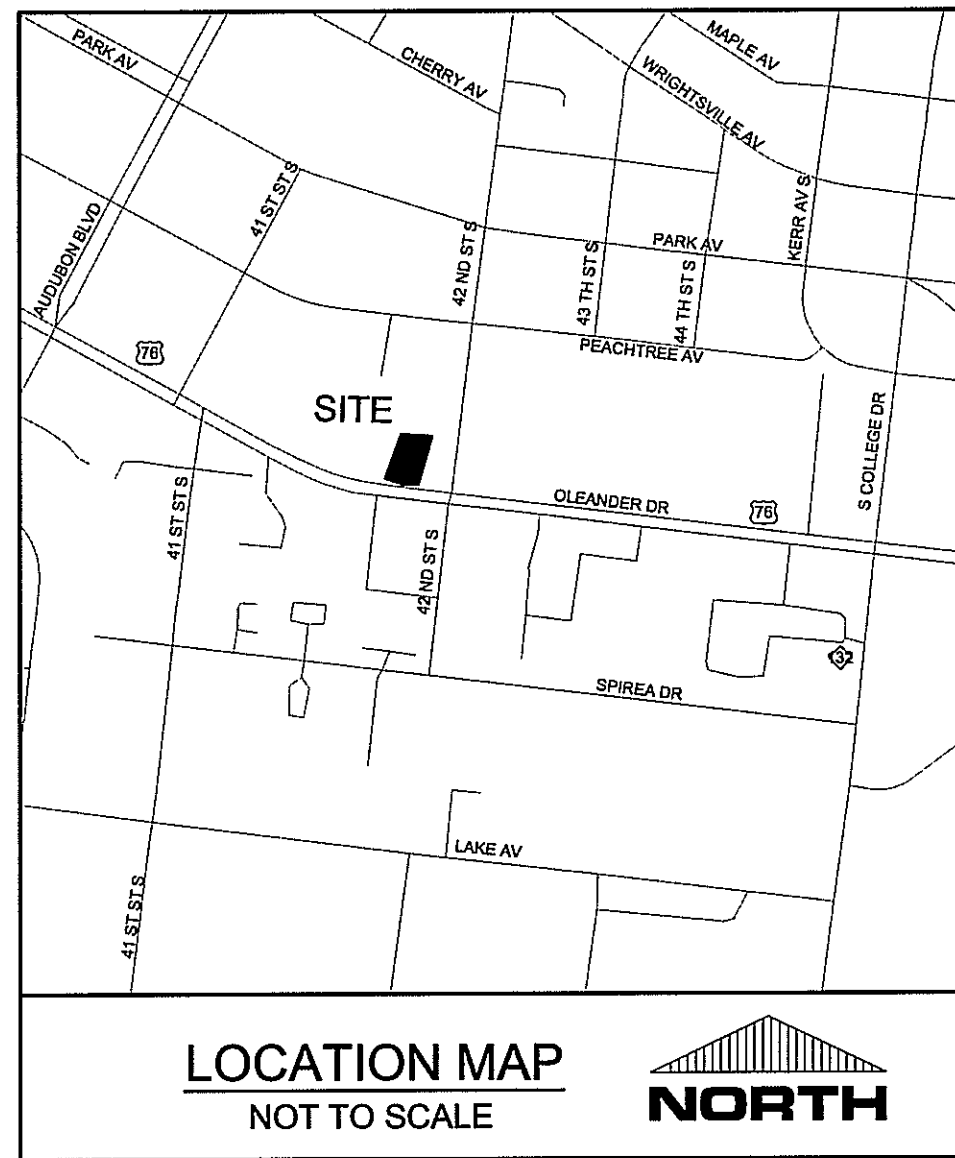
PROJECT STATUS:  
 CONCEPTUAL LAYOUT:  
 PRELIMINARY LAYOUT:  
 RELEASED FOR CONSTRUCTION

DRAWING INFORMATION:  
 DATE: 11/07/16  
 DESIGNED: PBR/SR  
 DRAWN: PBR/SR  
 CHECKED: DEC

SEAL  
**CITY OF WILMINGTON**  
 NORTH CAROLINA  
 ENGINEERING DIVISION  
 034354  
 11/07/16  
 WILMINGTON, NC 28402  
 (910) 541-7900

**C-4.0**  
 PEI JOB#: 15332.PE





**LEGEND:**

—OHE—	OVERHEAD ELECTRIC
---UTV---	BURIED TELEPHONE LINE
---G---	BURIED GAS LINE
---UTV---	BURIED TV CABLE
---FO---	BURIED FIBER OPTIC
---W---	WATER LINE
---SS---	SANITARY SEWER LINE
---SD---	STORM DRAINAGE LINE
---X---	FENCE (TYPE AS SPECIFIED)
---	EXISTING CONTOUR
---	RIGHT OF WAY/BOUNDARY
---	BOUNDARY LINE
---	PROPOSED SETBACKS
---	PROPOSED BUFFERS/EASEMENTS
---	DRAINAGE FLOW ARROWS
---	PROPOSED BUILDING
---	CONCRETE PAVEMENT
---	SIDEWALK
---	ASPHALT PAVEMENT

**SITE DATA**  
 PROJECT NAME: ADVANCE AUTO PARTS STORE #105349  
 SITE ADDRESS: 4121 OLEANDER DRIVE, WILMINGTON, NC 28403  
 NHC PIN: R06108-001-001-003  
 PROPERTY OWNER: 4121 OLEANDER DRIVE, LLC  
 SOURCE DEED: DEED BOOK 5932, PAGE 1957  
 AREA: 22,508± SF OR 0.52± ACRES  
 ZONING: RB (REGIONAL BUSINESS)  
 PROPOSED USE: RETAIL (AUTO PARTS SALES)  
 CAMA LAND USE: URBAN  
 EXISTING EASEMENTS: UTILITY, ACCESS EASEMENTS

**DIMENSION REQUIREMENTS**

SETBACKS:	REQUIRED	PROVIDED
FRONT	25'	83.7' (EX.)
SIDE	0'	15.1' L / 3.5' R
REAR	15'	34.6'
MAXIMUM HEIGHT	35'	16'-2"

**BUILDING INFORMATION**  
 EXISTING BUILDING: 6,827 SF (5,711 SF TO REMAIN)  
 EXISTING BUILDING LOT COVERAGE: 30.3%  
 PROPOSED EXPANSION: 1,793 SF (26.3% INCREASE)  
 TOTAL BUILDING AREA PROPOSED: 7,504 SF  
 PROPOSED BUILDING LOT COVERAGE: 33.3%  
 CONSTRUCTION TYPE: TYPE II MIN. BLOCK WALLS

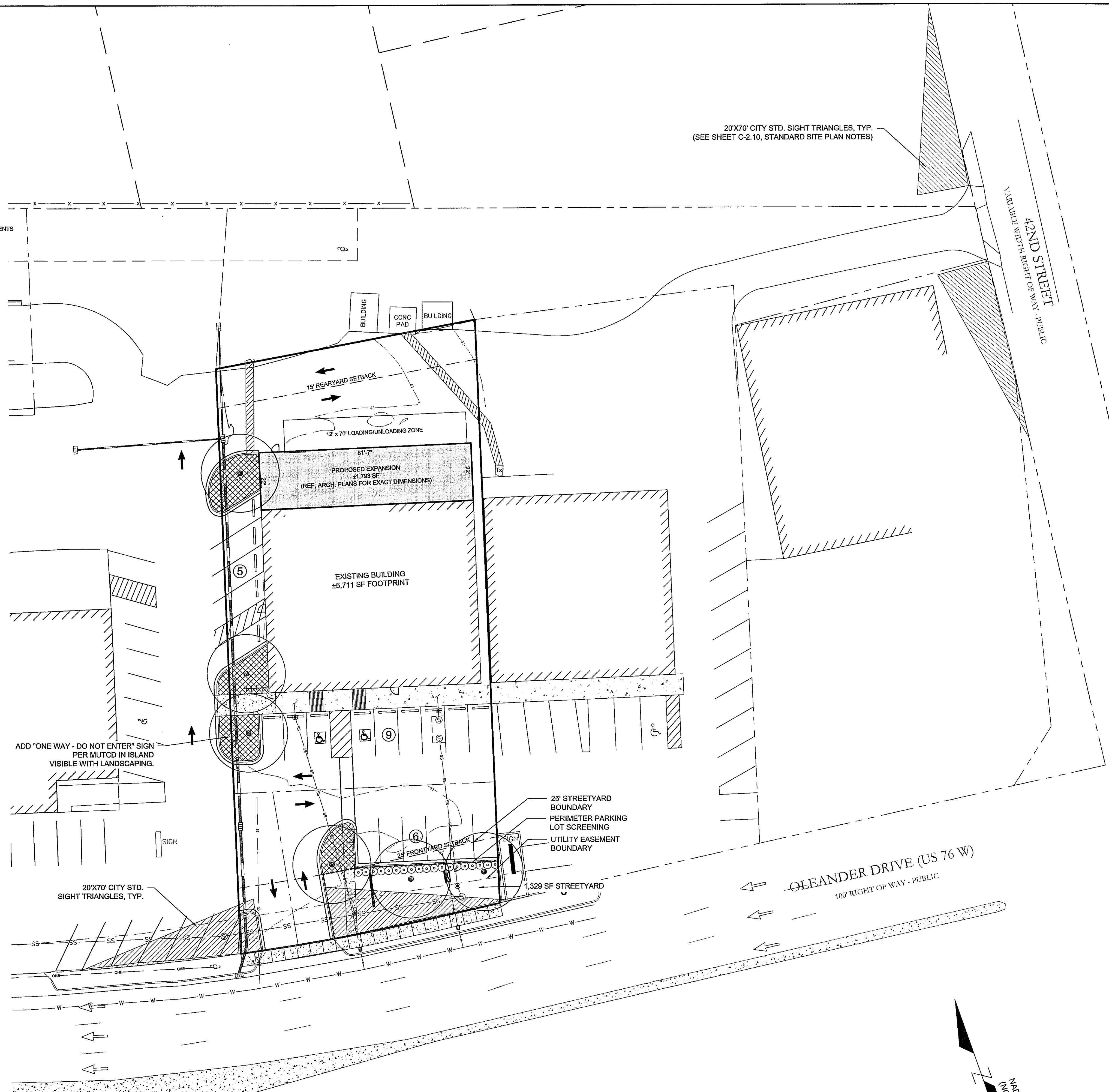
**PARKING INFORMATION**  
 PARKING REQUIREMENTS (RETAIL):  
 MINIMUM REQUIRED: 1 SPACE PER 400 SF = 19  
 MAXIMUM ALLOWED: 1 SPACE PER 200 SF = 38  
 PROVIDED: 20 SPACES  
 HC ACCESSIBLE SPACES REQUIRED: 1 SPACES  
 HC SPACES PROVIDED: 2 SPACES  
 BICYCLE PARKING REQUIRED: 5 SPACES  
 BICYCLE PARKING PROVIDED: 5 SPACES

**LANDSCAPE CALCULATIONS**  
 STREET YARD REQUIRED: 813 SF  
 [(LENGTH OF PROPERTY FRONTAGE - DRIVEWAY) X 25] X 1/2  
 [(101 LF - 36 LF)] X 25 X 1/2 = 813 SF  
 STREET YARD PROVIDED: 1,329 SF  
 STREET YARD TREES REQUIRED (0.5 / 600 SF): 2  
 STREET YARD TREES PROVIDED: 2  
 STREET YARD SHRUBS REQUIRED (3 / 600 SF): 6  
 STREET YARD SHRUBS PROVIDED: 19

INTERIOR LANDSCAPING REQUIRED: 746 SF  
 (6% OF VEHICULAR USE AREA)  
 12,431 SF x 0.06 = 746  
 INTERIOR LANDSCAPING PROVIDED: 2,828 SF  
 (4 TREES @ 707 SF = 2,828)

**PLANT SCHEDULE**

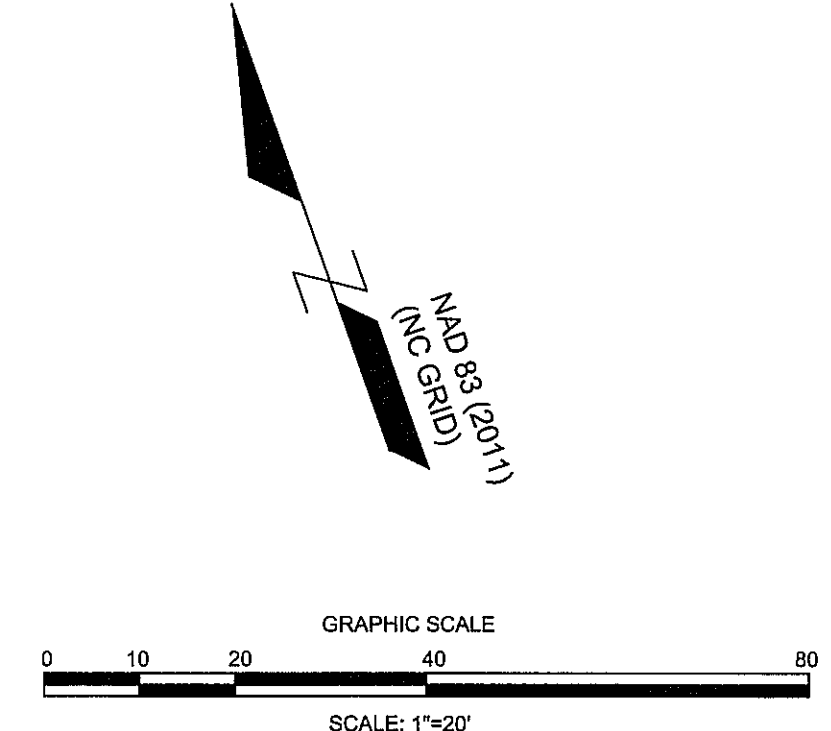
TREES	CODE	COMMON NAME	SIZE	QTY	REMARKS	
	LO	SOUTHERN LIVE OAK Quercus virginiana	2.5" CAL.	6		
SHRUBS	CODE	COMMON NAME	CONT	QTY	REMARKS	
	DYH	DWARF YAUPON (5' X 5') Ilex vomitoria 'Nana'	3 GAL	19		
GROUND COVERS	CODE	COMMON NAME	CONT	SPACING	QTY	REMARKS
	AJ	ASIATIC JASMINE Trachelospermum asiaticum 'Asiatic'	1 GAL	18" o.c.	466	



For each open utility cut of City streets, a \$325 permit shall be required from the City prior to occupancy and/or project acceptance.

**CITY OF WILMINGTON**  
 NORTH CAROLINA  
 Public Services • Engineering Division  
 APPROVED PLAN - NO PERMIT REQUIRED  
 Signed: [Signature] 11/21/16

**Approved Construction Plan**  
 Name: [Signature] Date: 11/15/16  
 Planning: [Signature] 11/15/16  
 Traffic: [Signature] 11/15/16  
 Fire: [Signature] 11/17/16



RELEASED FOR CONSTRUCTION

**REVISIONS:**


**CLIENT INFORMATION:**  
 4121 OLEANDER DRIVE, LLC  
 1131-B MILITARY CUTOFF ROAD  
 WILMINGTON, NC 28405

**PARAMOUNT ENGINEERING**  
 122 Cinema Drive  
 Wilmington, North Carolina 28403  
 (910) 791-6707 (O) (910) 791-6760 (F)  
 NC License #: C-2846

**LANDSCAPE PLAN**  
 4121 OLEANDER DRIVE  
 CITY OF WILMINGTON  
 NEW HANOVER COUNTY, NC

**PROJECT STATUS**  
 CONCEPT: 11/16/16  
 PRELIMINARY LAYOUT: 11/15/16  
 RELEASED FOR CONSTRUCTION: 11/21/16

**DRAWING INFORMATION**  
 DATE: 11/15/16  
 SCALE: 1"=20'  
 DRAWN: [Signature]  
 CHECKED: [Signature]

**SEAL**  
 NORTH CAROLINA  
 PROFESSIONAL ENGINEER  
 1823  
 [Signature]

**L-1.0**  
 PEI JOB#: 15332.PE