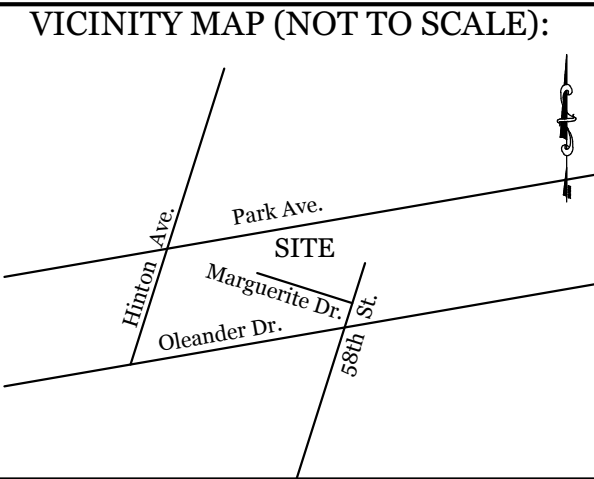
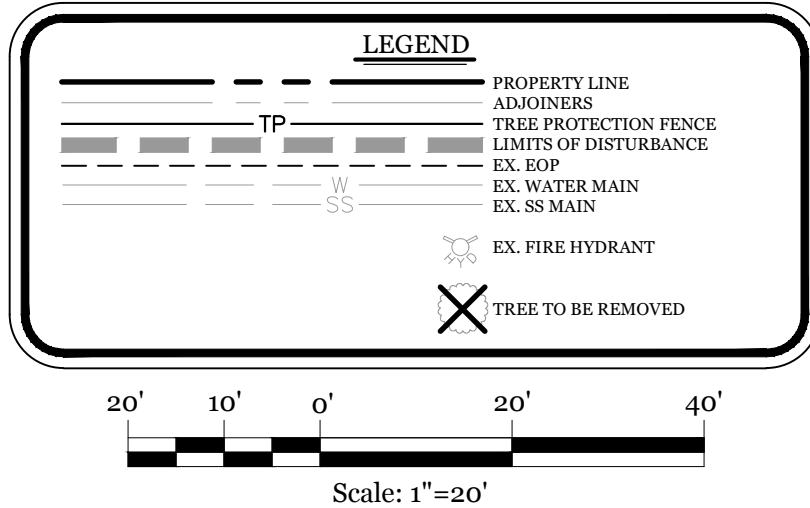
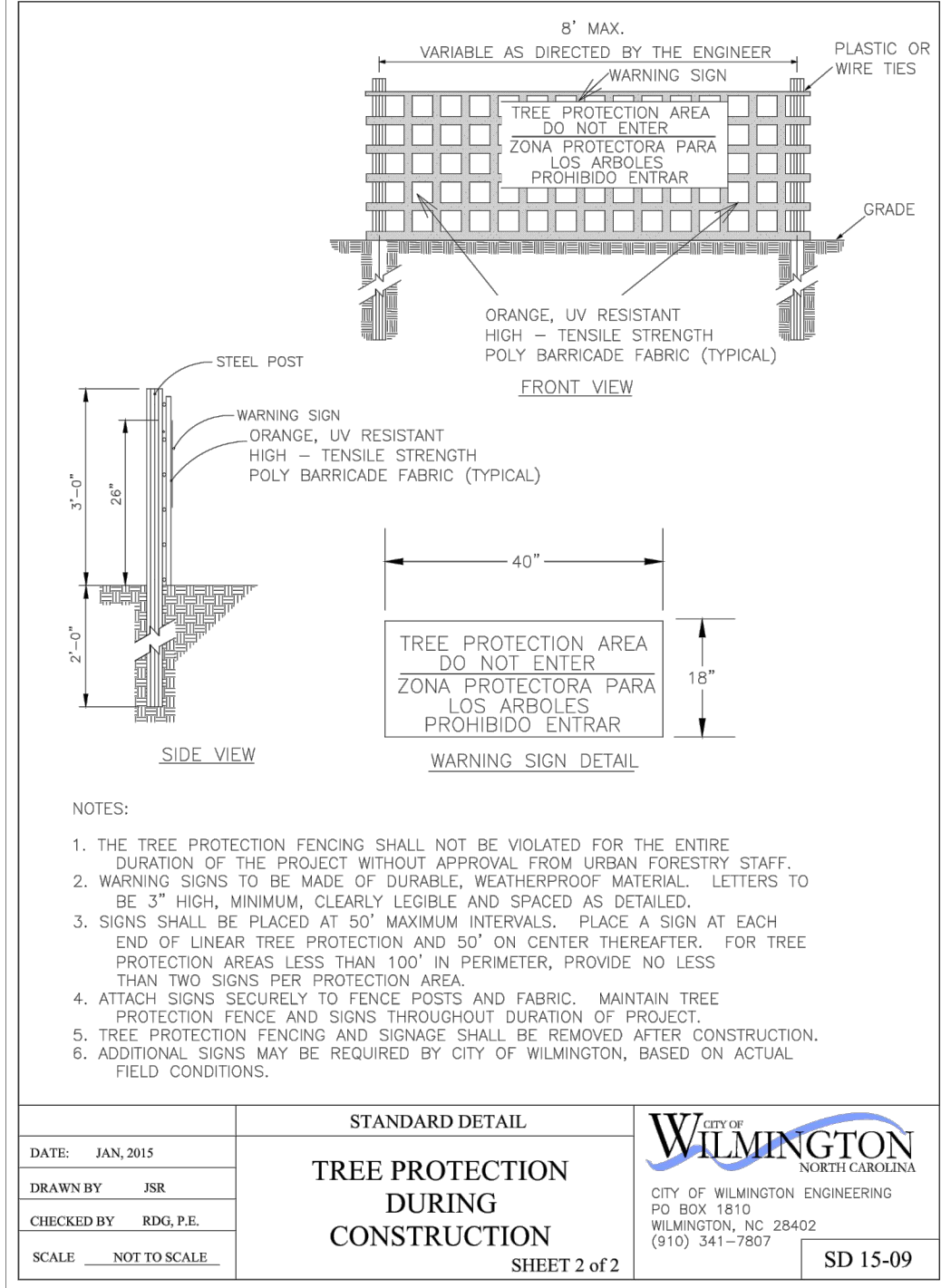
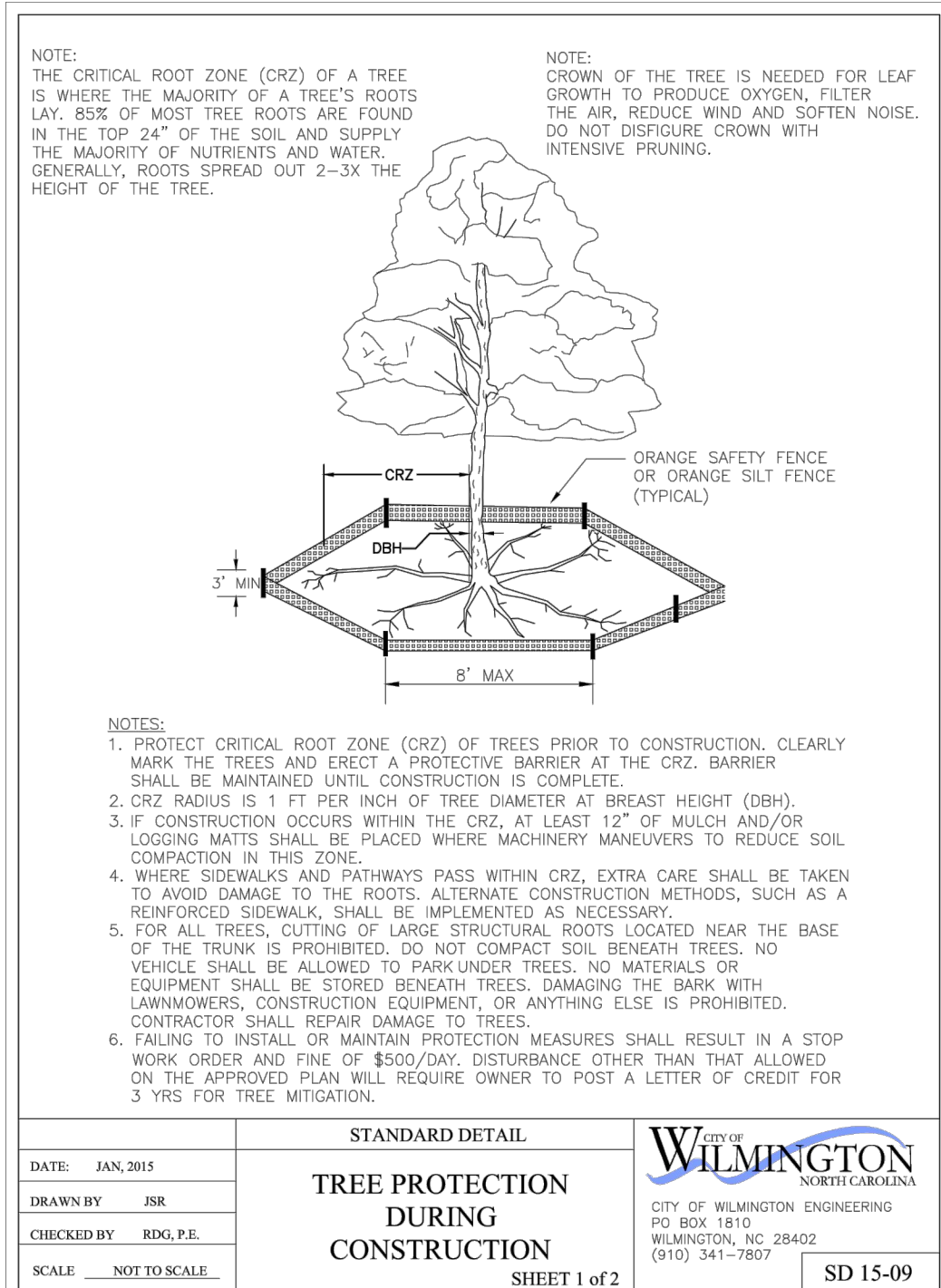


REQUIRED TREE MITIGATION CHART				
QTY	SIZE	TYPE	% MITIGATION	REPLACEMENT TREE INCHES
1	22"	PECAN	100%	44.00
TOTAL REPLACEMENT INCHES				44
TOTAL REPLACEMENT 2" TREES				22

* OWNER REQUESTS TO PROVIDE A PAYMENT IN LIEU FOR REQUIRED MITIGATION.

SITE DATA	
PARCEL ID:	R06207-003-019-000
ZONING:	CB-COMMUNITY BUSINESS
CAMA LAND USE CLASSIFICATION:	WATERSHED RESOURCE PROTECTION
PROJECT ADDRESS	5740 PARK AVE. WILMINGTON, NC 28403
CURRENT OWNERS:	STEPHEN & HOPE CONWAY 6252 TOWLES RD WILMINGTON, NC 28409
TOTAL ACREAGE IN PROJECT BOUNDARY	17,356 S.F. (±0.40 AC.))
TOTAL DISTURBED AREA:	0.45 AC.
EXISTING ONSITE IMPERVIOUS AREAS: (ALL TO BE REMOVED)	100 S.F.
SOIL TYPE:	Se (Seagate Fine Sand) 100% (Per the USDA websoil survey map)



REVISIONS	

INTRACOASTAL ENGINEERING, PLLC

5725 Oleander Dr. Unit E-7
Wilmington, North Carolina 28403
Phone: 910.859.8983
Email: charlie@intracoastalengineering.com
License Number P-0662

EXISTING CONDITIONS, TREE REMOVAL & PROTECTION PLAN

FOR

CONWAY PARK

WILMINGTON, NORTH CAROLINA

NORTH CAROLINA PROFESSIONAL SEAL

032555
ENGINEER
CHARLES D. CATER

Charles D. Cater
2/15/2023

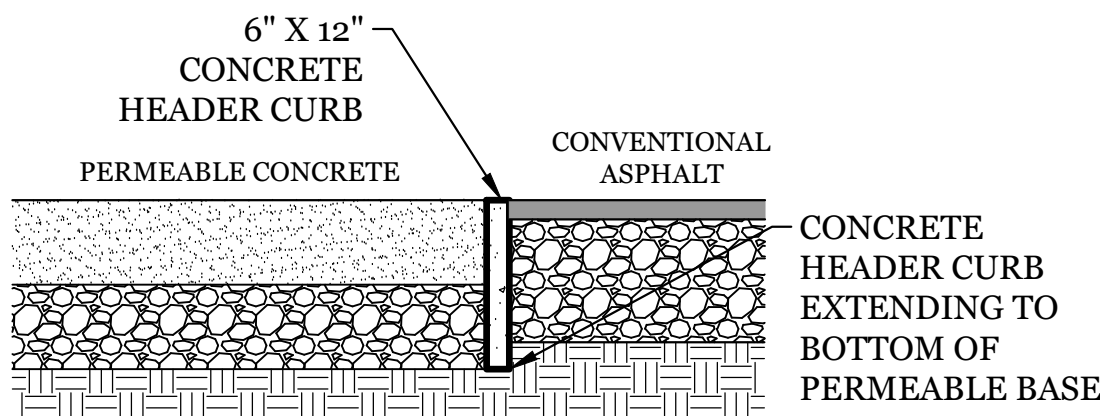
CLIENT INFORMATION:

Stephen Conway
6252 Towles Road
Wilmington, NC 28409

DRAWN: JAE	SHEET SIZE: 24 X 36
CHECKED: CDC	DATE: 2/15/2023
APPROVED: CDC	SCALE: 1" = 20'
PROJECT NUMBER: 2022-012	

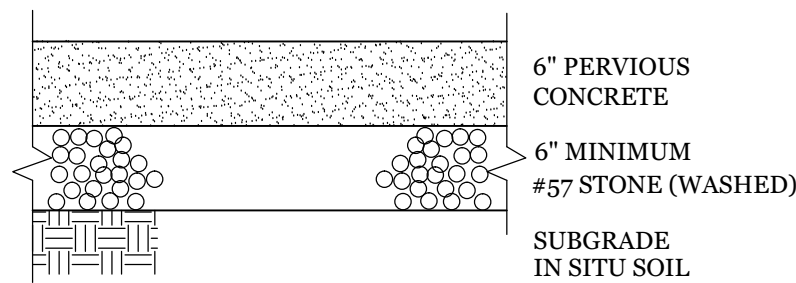
DRAWING NUMBER: **C-0**

1 OF 3



PERMEABLE CONCRETE BORDER

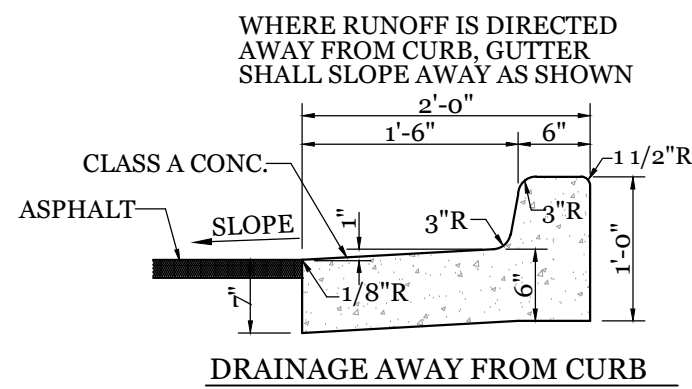
NTS



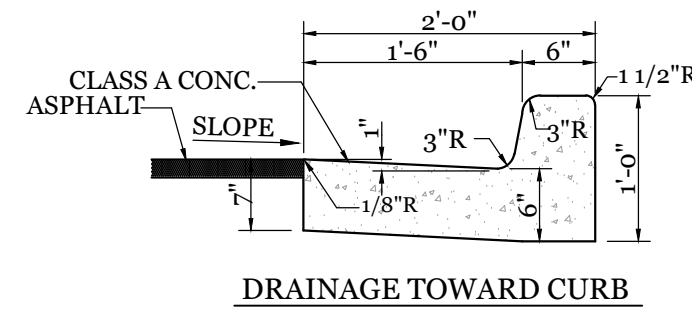
NOTE: SUBGRADE MUST BE EITHER SCARIFIED, RIPPED, OR TRENCHED TO MAINTAIN THE PRE-CONSTRUCTION SUBGRADE INFILTRATION RATE.

PERVIOUS CONCRETE SECTION

NTS



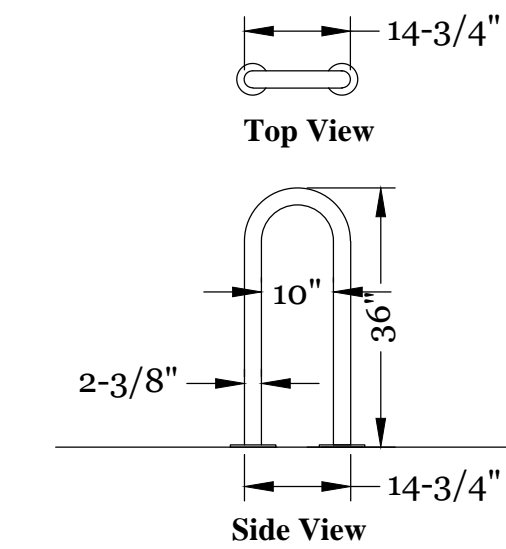
DRAINAGE AWAY FROM CURB



DRAINAGE TOWARD CURB

24" CURB SECTION

NTS



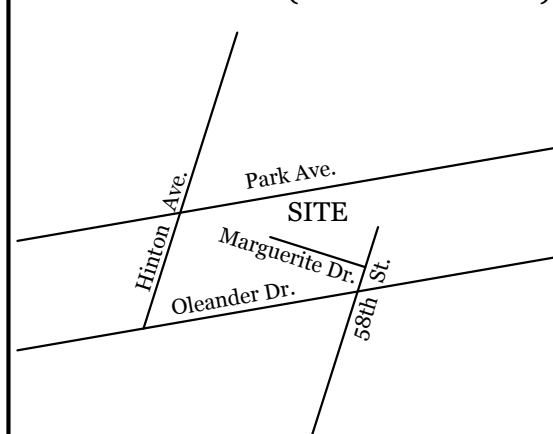
WAVE STYLE BIKE RACK DETAIL

3 BIKE RACK
NTS

SITE WORK NOTES:

1. THE CONTRACTOR SHALL VISIT THE SITE AND BECOME FAMILIAR WITH EXISTING CONDITIONS BOTH ON AND ADJACENT TO THE SITE.
2. CLEARING: CONTRACTOR SHALL REMOVE ALL TREES AND VEGETATION WITHIN LIMITS OF CONSTRUCTION UNLESS OTHERWISE DESIGNATED TO REMAIN.
3. GRUBBING AND STRIPPING: CONTRACTOR SHALL RAKE AND REMOVE ROOTS, STUMPS, VEGETATION, DEBRIS, EXISTING STRUCTURES ABOVE AND BELOW GRADE, ORGANIC MATERIAL OR ANY OTHER UNSUITABLE MATERIAL WITHIN LIMITS OF CONSTRUCTION.
4. MUCKING: CONTRACTOR SHALL COORDINATE WITH OWNER AND THEIR GEOTECHNICAL REPRESENTATIVE TO COORDINATE REMOVAL OF ANY SOFT AREAS.
5. DISPOSAL: CLEARED, GRUBBED, STRIPPED OR OTHER WASTE MATERIAL SHALL BE REMOVED FROM SITE AND DISPOSED OF IN A PROPERLY PERMITTED FACILITY.
6. FILL AND COMPACTION SHOULD COMPLY WITH GEOTECHNICAL RECOMMENDATIONS.
7. THE CONTRACTOR SHALL NOTE THAT THE GRADING PLAN MAY NOT REPRESENT A BALANCED EARTHWORK CONDITION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CUT AND FILL QUANTITIES AND COMPLETE INSTALLATION TO SPECIFIED GRADES.
8. THE CONTRACTOR SHALL FURNISH SUITABLE BORROW MATERIAL FROM AN OFF-SITE PROPERLY PERMITTED FACILITY AS REQUIRED.
9. INFORMATION CONCERNING UNDERGROUND UTILITIES WAS OBTAINED FROM AVAILABLE RECORDS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE EXACT ELEVATIONS AND LOCATIONS OF ALL EXISTING UTILITIES AT ALL CROSSINGS PRIOR TO COMMENCING TRENCH EXCAVATION. IF ACTUAL CLEARANCES ARE LESS THAN INDICATED ON PLAN, THE CONTRACTOR SHALL CONTACT THE DESIGN ENGINEER BEFORE PROCEEDING WITH CONSTRUCTION. ANY CONDITION DISCOVERED OR EXISTING THAT WOULD NECESSITATE A MODIFICATION OF THESE PLANS SHALL BE BROUGHT TO THE ATTENTION OF THE DESIGN ENGINEER BEFORE PROCEEDING WITH CONSTRUCTION.
10. NO CONSTRUCTION IS TO BEGIN BEFORE LOCATION OF EXISTING UTILITIES HAS BEEN DETERMINED. CALL "NC ONE-CALL" AT LEAST 48 HOURS BEFORE COMMENCING CONSTRUCTION.
11. THE CONTRACTOR IS RESPONSIBLE FOR THE LOCATION AND PROTECTION OF ALL EXISTING UTILITIES DURING CONSTRUCTION. BEFORE COMMENCING ANY EXCAVATIONS IN OR ALONG ROADWAYS OR RIGHT-OF-WAYS, PUBLIC AREAS OR IN PRIVATE EASEMENTS, THE CONTRACTOR SHALL NOTIFY ALL APPROPRIATE PERSONNEL OF THEIR INTENT TO EXCAVATE, IN WRITING, NOT LESS THAN 10 DAYS PRIOR TO EXCAVATING.
12. THE CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE DISCONNECTION/ RECONNECTION AND/OR THE RELOCATION OF ALL EXISTING UTILITIES WITH APPROPRIATE PERSONNEL.
13. CONTRACTOR SHALL ADJUST ALL MANHOLES, VALVE & CURB BOXES TO FINAL GRADE UPON COMPLETION OF ALL CONSTRUCTION. ANY BOXES DAMAGED OR OTHERWISE DISTURBED BY THE CONTRACTOR SHALL BE REPAIRED AT THE EXPENSE OF THE CONTRACTOR.
14. THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AT THE SITE. FURTHERMORE THE CONTRACTOR SHALL REPORT ALL DISCREPANCIES OR QUESTIONS TO THE ENGINEER PRIOR TO INSTALLATION.
15. THE CONTRACTOR SHALL PROVIDE A PLAN AND ALL LAYOUT REQUIRED TO CONSTRUCT HIS WORK UNLESS OTHERWISE DIRECTED BY OWNER.
16. ALL SERVICE CONNECTIONS SHALL BE INSTALLED TO MEET ALL LOCAL, STATE, AND CPWA CODES. METERS, TAPS, MATERIALS, WORKMANSHIP AND ALL FEES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL COMPLY WITH ALL REQUIREMENTS.
17. ALL BACKFILL FROM UTILITY INSTALLATION MUST BE COMPACTED OR AMENDED TO PROVIDE TRAFFIC BEARING CAPACITY. GEOTECHNICAL ENGINEER TO BE CONSULTED AT CONTRACTORS COST AS NECESSARY.
18. ALL AREAS SHALL BE GRADED FOR POSITIVE DRAINAGE. CONTRACTOR SHALL REPORT ANY DISCREPANCIES TO THE ENGINEER PRIOR TO INSTALLATION. ALL AREAS SHALL BE SLOPED TO DRAIN AWAY FROM BUILDINGS AT ALL TIMES.
19. CONCRETE FOR WALKS, CURBS AND DRIVES SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI @ 28 DAYS - AIR ENTRAINED.
20. FIELD TESTING SHALL BE DONE BY AN INDEPENDENT TESTING LABORATORY PAID FOR BY THE OWNER. FURTHER TESTING REQUIRED DUE TO A FAILED TEST WILL BE PAID FOR BY THE CONTRACTOR.
21. ALL SIDEWALKS SHALL BE FREE OF CRACKS, BREAKS, OR ANY OTHER DEFECT PRIOR TO RECEIVING A CERTIFICATE OF OCCUPANCY.

VICINITY MAP (NOT TO SCALE):

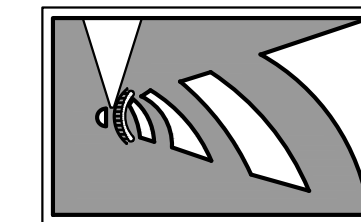


REVISIONS

NO.	DESCRIPTION	DATE

INTRACOASTAL ENGINEERING, PLLC

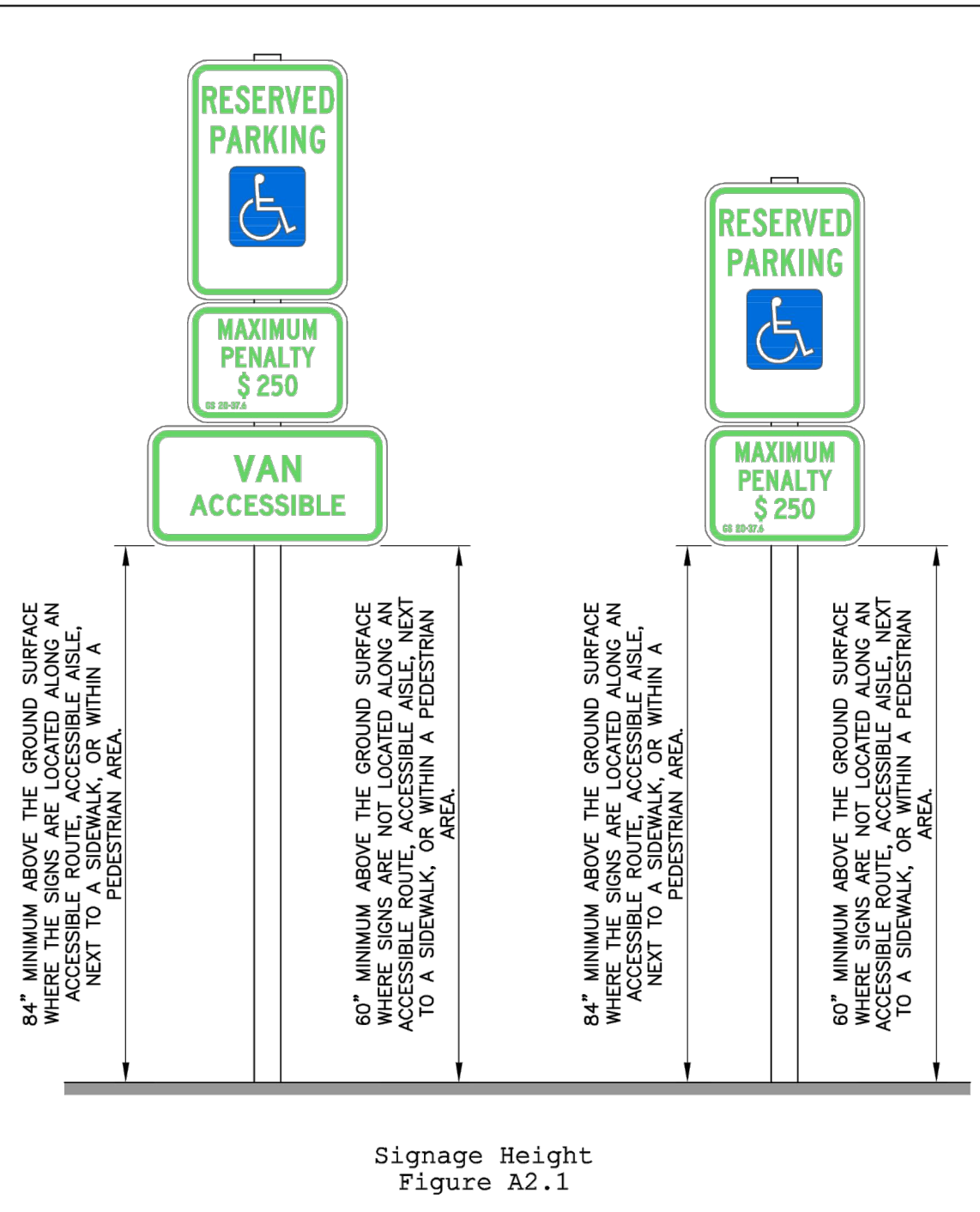
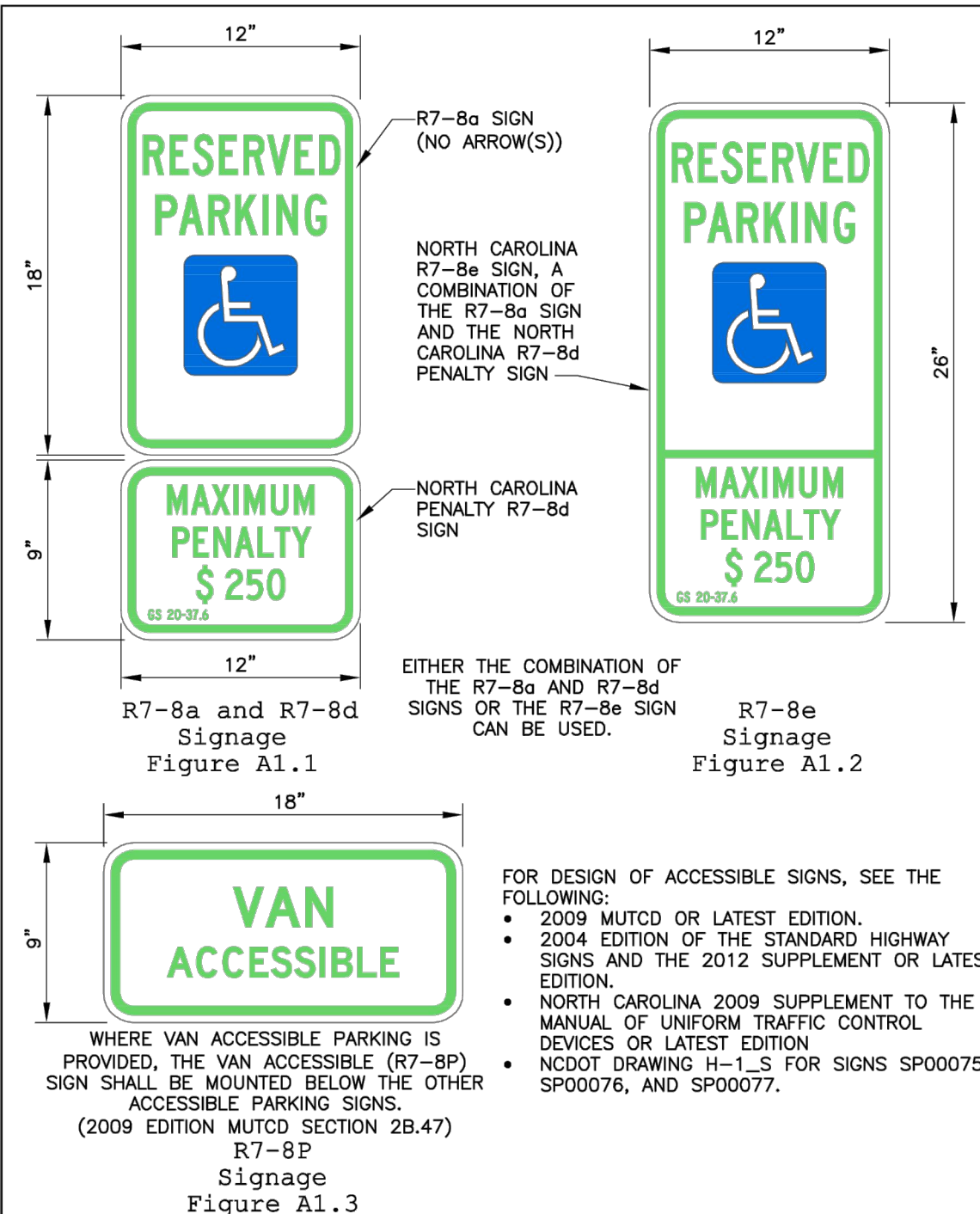
5725 Olander Dr. Unit E-7
Wilmington, North Carolina 28403
Phone: 910.859.8983
Email: charlie@intracoastalengineering.com
License Number P-0662



DETAILS

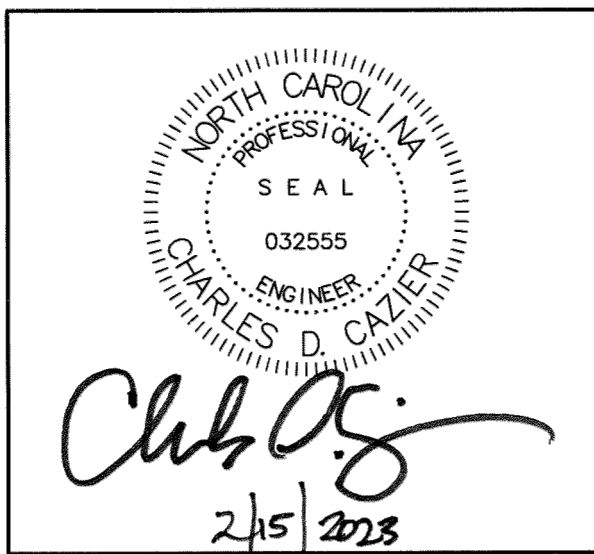
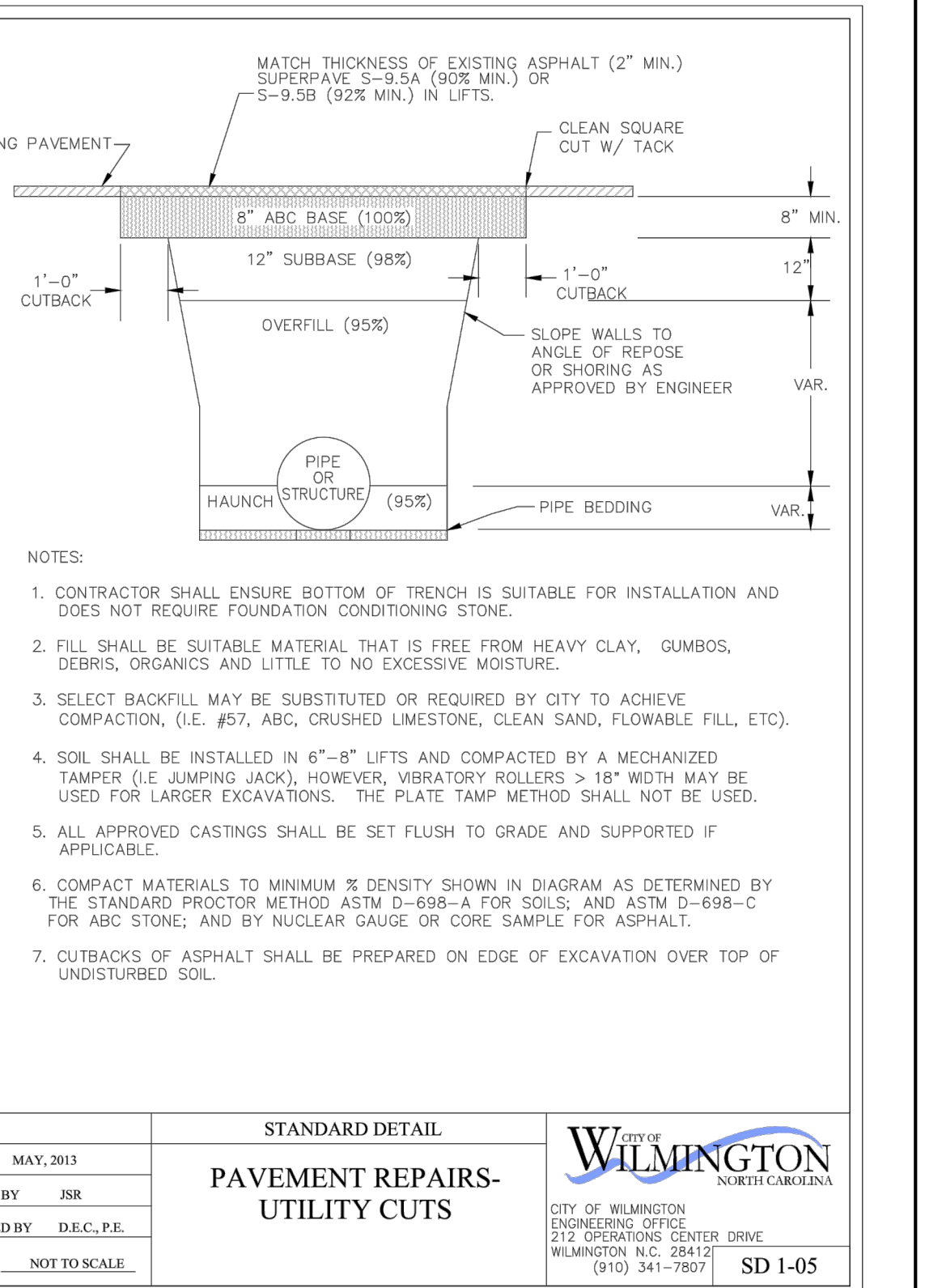
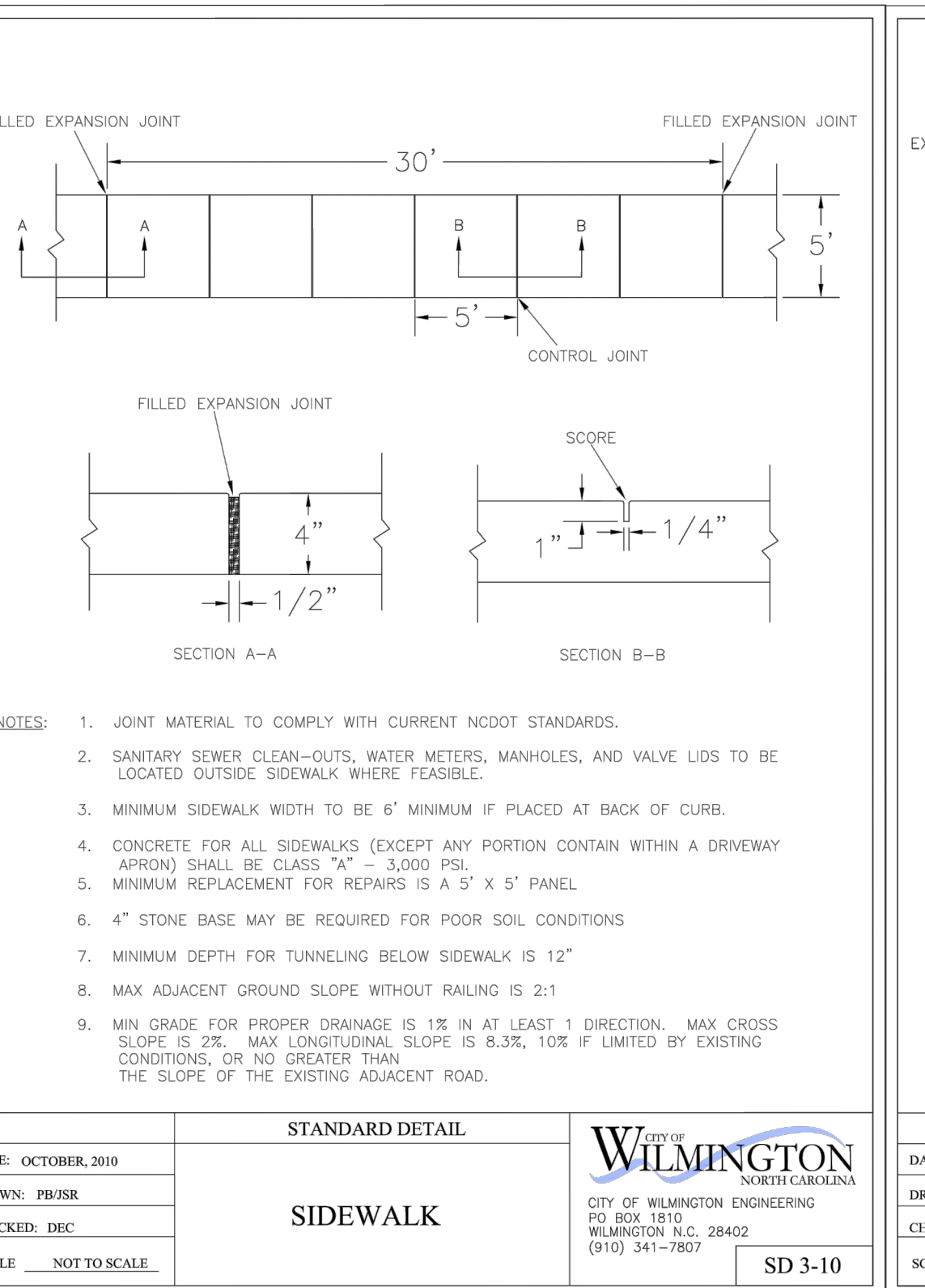
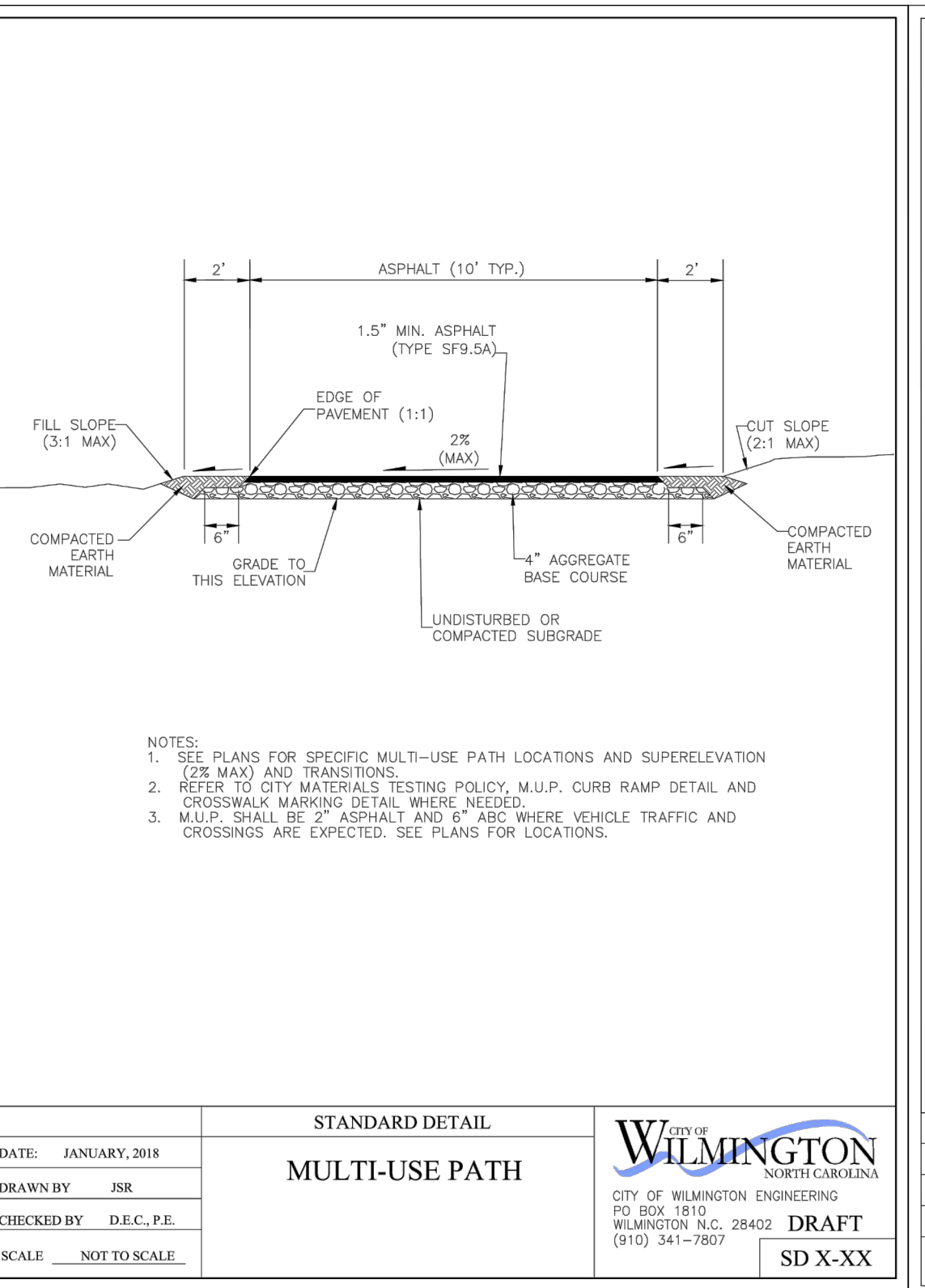
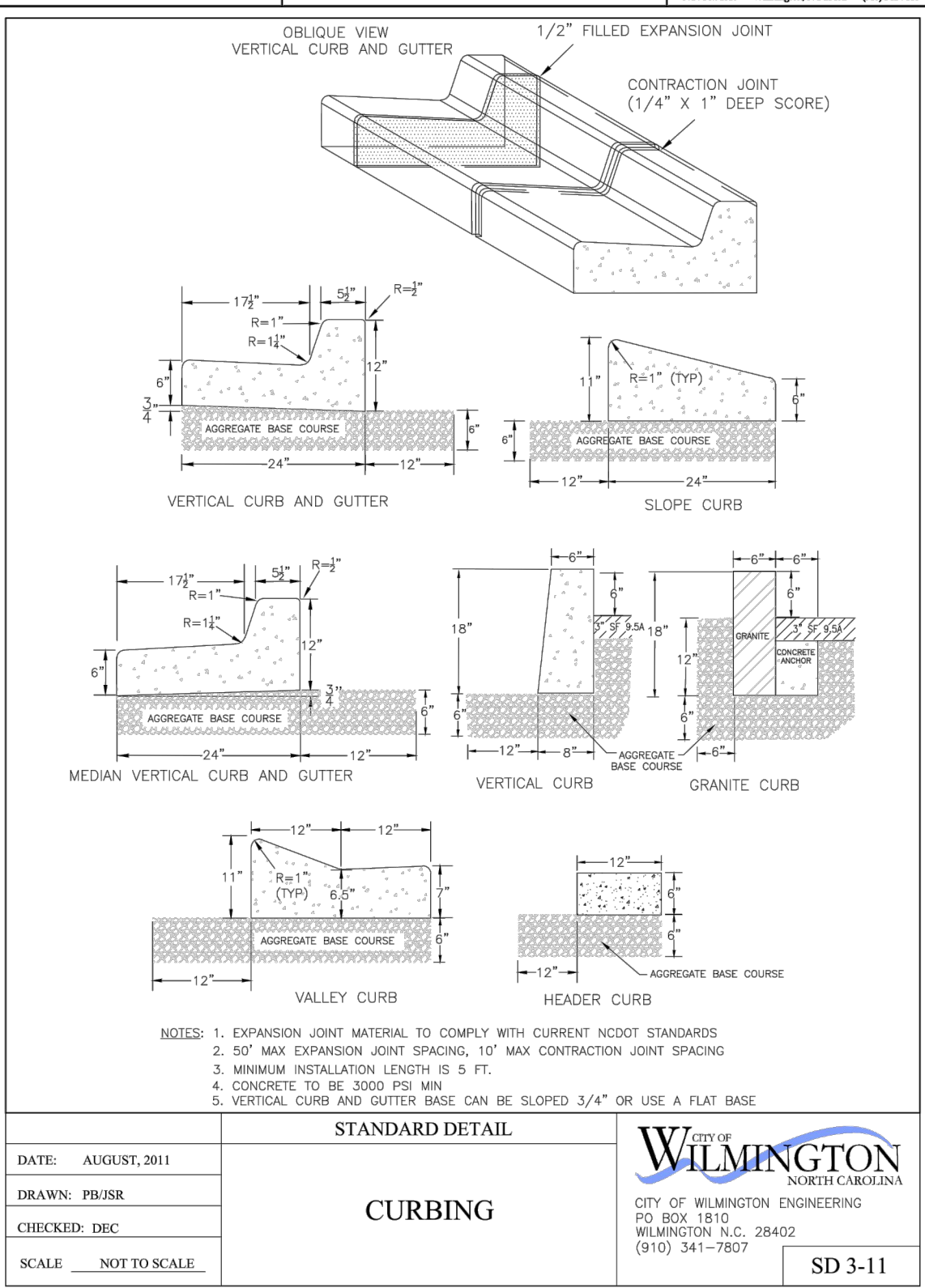
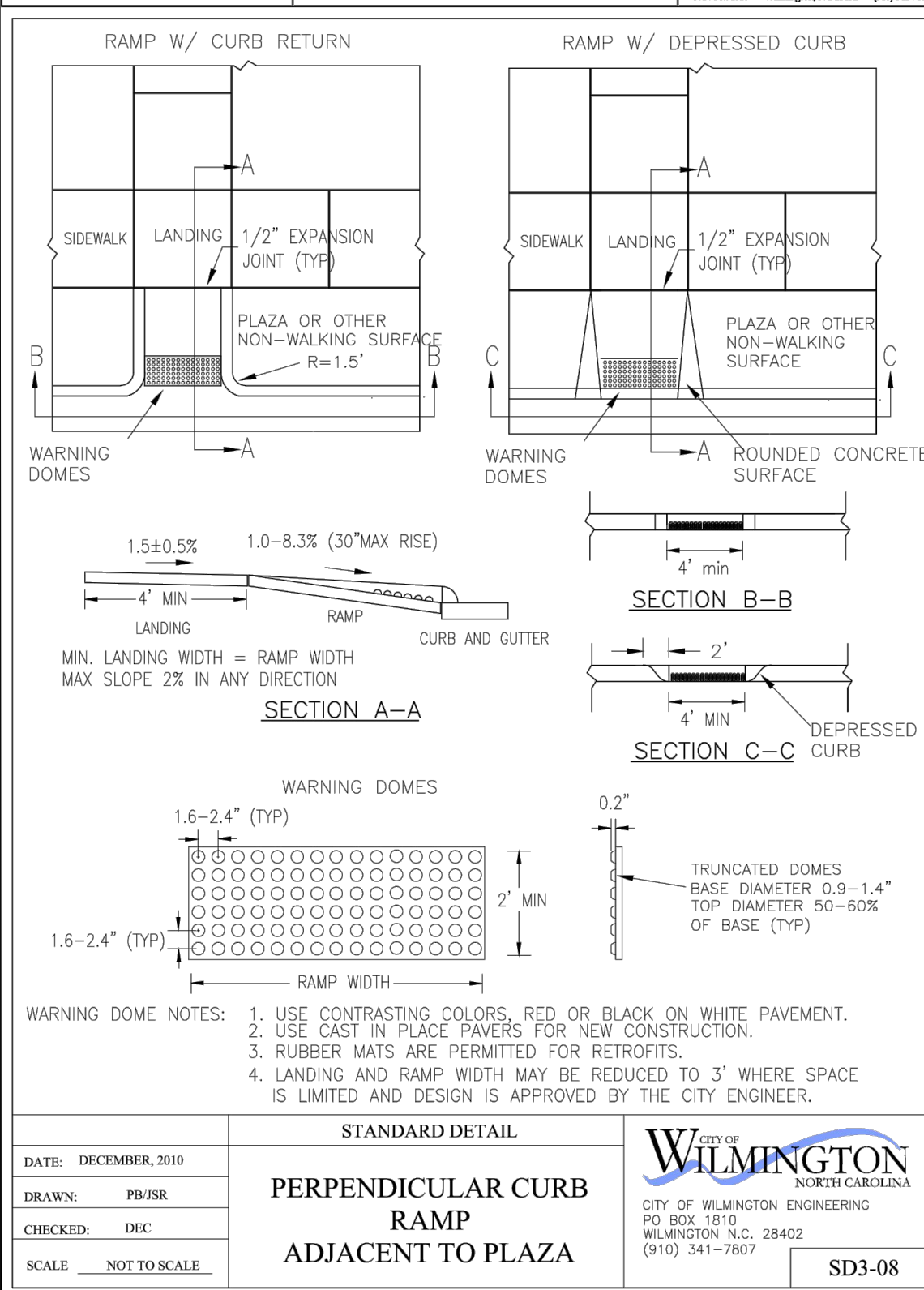
FOR
CONWAY PARK

WILMINGTON, NORTH CAROLINA



DATE: NOVEMBER 8, 2016	ACCESSIBLE PARKING SIGNS AND INSTALLATION DETAILS SHEET A1 OF 5
DRAWN BY: DALE THOMPSON	
CHECKED BY: RANDALL GLAZIER	
SCALE: NOT TO SCALE	

DATE: NOVEMBER 8, 2016	ACCESSIBLE PARKING SIGNS AND INSTALLATION DETAILS SHEET A2 OF 5
DRAWN BY: DALE THOMPSON	
CHECKED BY: RANDALL GLAZIER	
SCALE: NOT TO SCALE	



CLIENT INFORMATION:

Stephen Conway
6252 Towles Road
Wilmington, NC 28409

DRAWN: JAE SHEET SIZE: 24 X 36

CHECKED: CDC DATE: 2/15/2023

APPROVED: CDC SCALE: NTS

PROJECT NUMBER: 2022-012

DRAWING NUMBER: C-2

LEGEND

PROPERTY LINE

EASEMENT

CENTER LINE

EXISTING WATERLINE

EXISTING SANITARY SEWER LINE

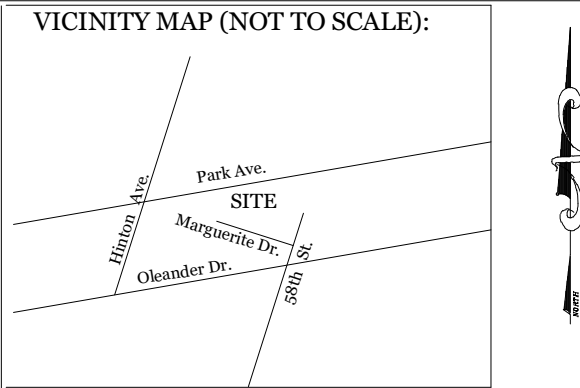
RUNOFF FLOW DIRECTION

SPOT ELEVATION

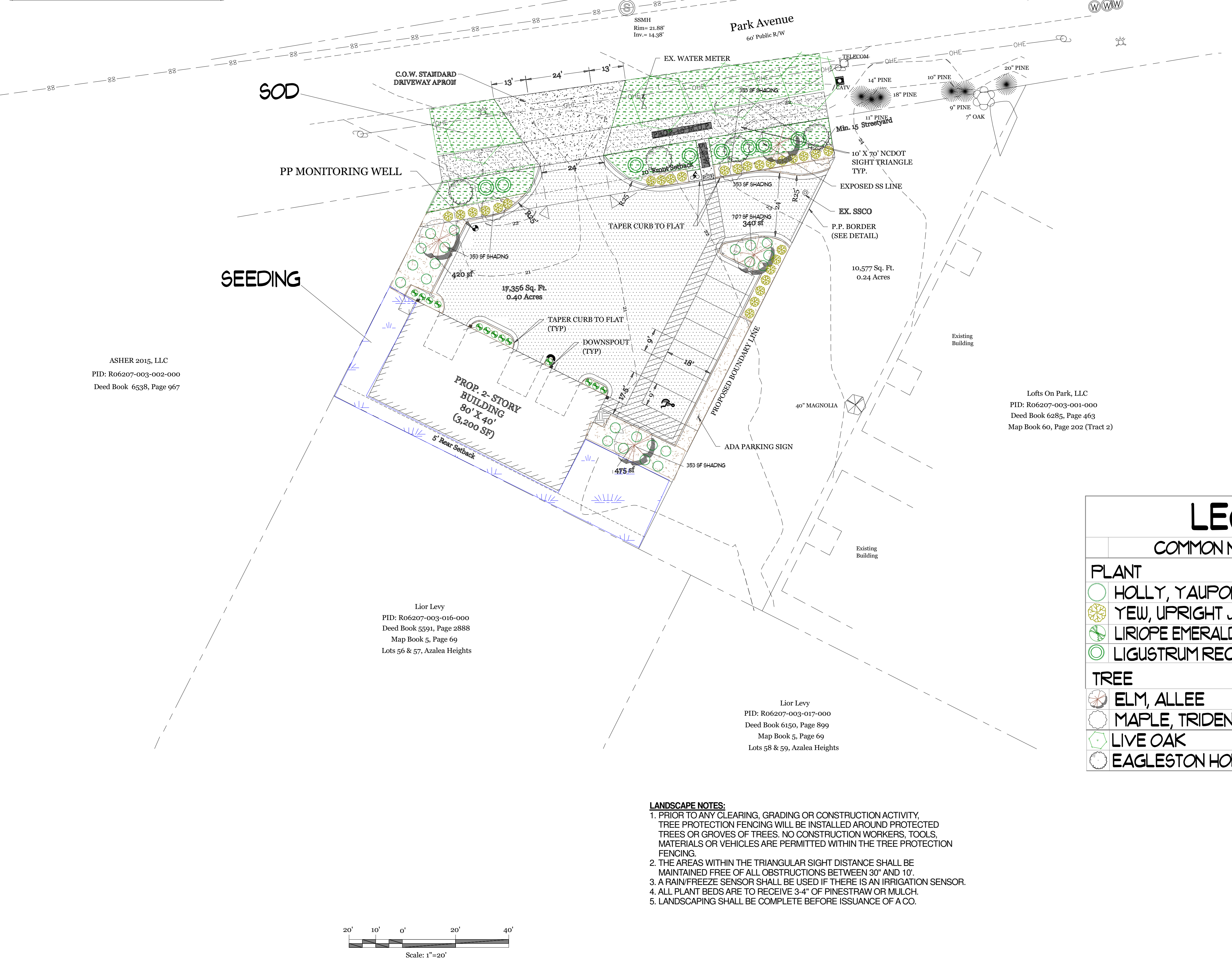
FOUNDATION PLANTINGS

BIKE RACK

PERMEABLE CONCRETE PARKING



SITE DATA		
PARCEL ID:	R06207-003-019-000	
ZONING:	CB-COMMUNITY BUSINESS	
CAMA LAND USE CLASSIFICATION:	WATERSHED RESOURCE PROTECTION	
PROJECT ADDRESS	5740 PARK AVE. WILMINGTON, NC 28403	
CURRENT OWNERS:	STEPHEN & HOPE CONWAY 6252 TOWLES RD WILMINGTON, NC 28403	
TOTAL ACREAGE IN PROJECT BOUNDARY	17,356 S.F. (±0.40 AC.) X 15 = 6 TREES 2" CAL REQ'D & PROVID.	
PROPOSED USE:	GENERAL BUSINESS SERVICES	
PROPOSED CONSTRUCTION TYPE:	II-B (COMMERCIAL)	
BUILDING SIZE:	4,700 GFA	
BUILDING HEIGHT:	±24' / 2 STORY (45' MAX PER ZONING)	
BUILDING SETBACKS:		
FRONT:	REQUIRED= 10'	PROPOSED= 15'
SIDE:	REQUIRED= 0'/25 TO RES.	PROPOSED= 36.5'L / 11'R
REAR:	REQUIRED= 5'/25 TO RES.	PROPOSED= 6'
CALCULATION FOR BUILDING COVERAGE:		
PROPOSED COVERAGE	3,200 S.F. ÷ 17,356 S.F. = 18.4% (30% MAX)	
PROPOSED ON-SITE IMPERVIOUS AREAS:		
BUILDING	3,200 S.F.	
CONCRETE SIDEWALK, C&G, ETC.	845 S.F.	
TOTAL:	4,045 S.F. (23.3%)*	
Site required to meet Exceptional Design Criteria for impervious surfaces in excess of 25.0% up to a MAXIMUM site impervious area of 50%		
PROPOSED ON-SITE PERVIOUS AREAS:		
PERMEABLE CONCRETE PARKING	7,922 S.F.	7322 SF X 10' = 732 SF SHADING REQ'D. 219 SF SHADING PROVID.
PROPOSED OFF-SITE IMPERVIOUS AREAS:		
CONCRETE DRIVEWAY APRON	1,007 S.F.	
ASPHALT M.U.P.	1,183 S.F.	
TOTAL:	2,190 S.F.	
PARKING REQUIREMENTS (4,700 S.F. GENERAL BUSINESS SERVICES):		
1 per 300 square feet of GFA, plus 1 for each service vehicle		
BASLINE (MAX):	16 SPACES	
MIN. REQUIRED**:	7 SPACES (1 ADA)	
40% of Max required due to being within 650' of a residential district		
PARKING PROVIDED=	7 SPACES (1 ADA)	
BICYCLE PARKING REQUIRED: (2 spaces or 1 per 5,000 square feet of GFA, whichever is greater)		
REQUIRED:	2 SPACES	
PROVIDED:	3 SPACES	
FOUNDATION PLANTINGS:		
REQUIRED:	192 SF (80 L.F. X 20' FACADE X 12%)	
PROVIDED:	205 SF	
STREETSCAPE: 15' MIN. - 40' MAX. (147 LF - 25 LF = 122 LF) 122 LF / 10'Ø = 122, 1 CANOPY & 4 UNDERSTORY TREES & 7 SHRUBS REQ'D. & PROVID.		
ESTIMATED TRIP GENERATION: (Per Trip Generation Manual):		
3,200 SF WAREHOUSE (ITE CODE 150)	AM PEAK: 1	DAILY: 10
	PM PEAK: 1	
1,500 SF OFFICE (ITE CODE 710)	AM PEAK: 2	DAILY: 17
	PM PEAK: 1	
PROJECT TOTAL:	AM PEAK: 3	DAILY: 27
	PM PEAK: 2	



- LANDSCAPE NOTES:**
1. PRIOR TO ANY CLEARING, GRADING OR CONSTRUCTION ACTIVITY, TREE PROTECTION FENCING WILL BE INSTALLED AROUND PROTECTED TREES OR GROVES OF TREES. NO CONSTRUCTION WORKERS, TOOLS, MATERIALS OR VEHICLES ARE PERMITTED WITHIN THE TREE PROTECTION FENCING.
 2. THE AREAS WITHIN THE TRIANGULAR SIGHT DISTANCE SHALL BE MAINTAINED FREE OF ALL OBSTRUCTIONS BETWEEN 30" AND 10'.
 3. A RAIN/FREEZE SENSOR SHALL BE USED IF THERE IS AN IRRIGATION SENSOR.
 4. ALL PLANT BEDS ARE TO RECEIVE 3-4" OF PINESTRAW OR MULCH.
 5. LANDSCAPING SHALL BE COMPLETE BEFORE ISSUANCE OF A CO.

LEGEND			
	COMMON NAME	QTY	SIZE
PLANT			
	HOLLY, YAUPON, DWARF	22	3 GAL.
	YEW, UPRIGHT JAPANESE	27	7 GAL.
	LIRIOPE EMERALD GODDESS	13	1 GAL.
	LIGUSTRUM RECURVE	8	3 GAL.
TREE			
	ELM, ALLEE	4	2" CAL.
	MAPLE, TRIDENT	3	2" CAL.
	LIVE OAK	4	2" CAL.
	EAGLESTON HOLLY, TF	4	8' HT.

3' HT. LOW BUFFER

CANOPY

CANOPY

CANOPY

UNDERSTORY



Revision #: 1

Date: 2/1/2023

Scale:

1" = 20'

Landscape Plan:

Conway Park

CLIENT INFORMATION:

STEPHEN CONWAY

6252 TOWLES ROAD

WILMINGTON, NC 28403

Landscape Design by: Jim Freeman - NCLC# 0071

Freeman Landscape, Inc.