REQUEST FOR COMMITTEE ACTION

HENDERSON COUNTY

TECHNICAL REVIEW COMMITEE

MEETING: March 6, 2018

SUBJECT: Major Site Plan Review – Lightheart Gear

PRESENTER: Toby Linville

ATTACHMENTS: Staff Report

SUMMARY OF REQUEST: Major site plan review

SUGGESTED MOTION: I move that the TRC approve the major site plan for Leisure Craft



Henderson County, North Carolina Code Enforcement Services

1. Committee Request

1.1. **Applicant:** LightHart Gear/POGO Land Holdings LLC

1.2. **Request:** Major Site Plan Approval

1.3. **PIN:** 9652524440 1.4. **Size:** 3.36 acres +/-

1.5. **Location:** 0 Old Hendersonville Rd

1.6. Supplemental Requirements:

SR 10.8. Manufacturing and Production Operations

(1) Site Plan. Major Site Plan required in accordance with §200A-331 (Major Site Plan Review).

- (2) Lighting. Adequate lighting shall be placed in areas used for vehicular/pedestrian access including, but not limited to: stairs, sidewalks, crosswalks, intersections, or changes in grade. Lighting mitigation required.
- (3) Dust Reduction. Unpaved *roads*, *travelways* and/or parking areas shall be treated to prevent dust from adverse effects to adjacent properties.



2. <u>Current Conditions</u>

Current Use: This parcel is currently industrial and vacant.

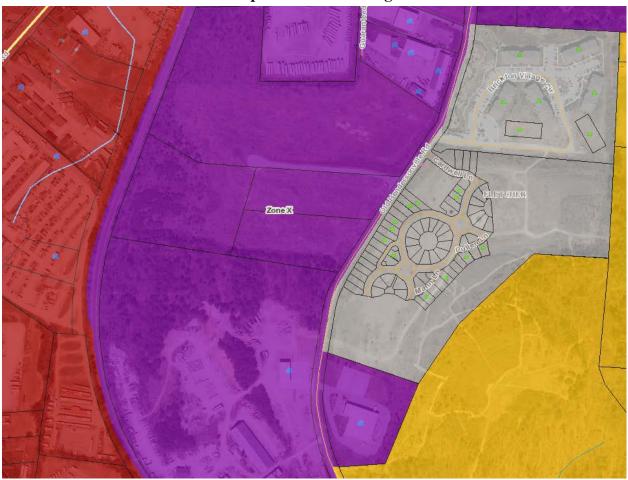
Adjacent Area Uses: The surrounding properties consist of residential, commercial and

industrial uses.

Zoning: The surrounding property to the north is Industrial and East is Fletcher C-1 Conditional

Zoning

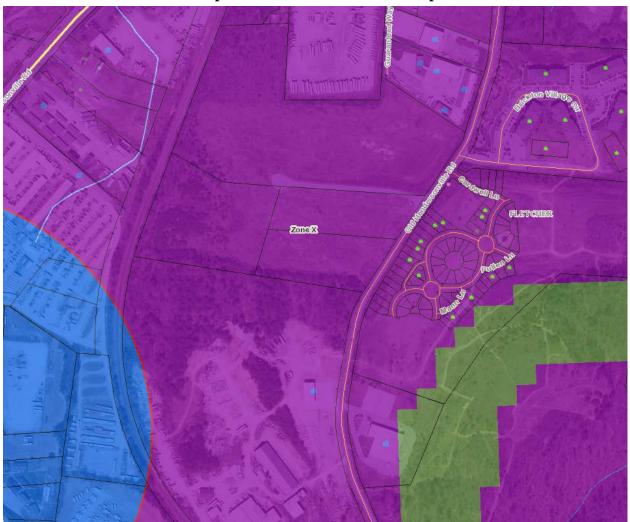
Map B: Current Zoning



- **3.** <u>Floodplain /Watershed Protection</u> The property is not located in a Special Flood Hazard Area. The property is not in a Water Supply Watershed district.
- **4.** Water and Sewer This property is served by public water and sewer.

Public Water: City of Hendersonville

Public Sewer: Cane Creek



Map C: CCP Future Land Use Map

5. Comprehensive Plan

The 2020 CCP: The CCP Future Land Use Map places the Subject Area in the Industrial Area. The text and map of the 2020 CCP suggest that the Subject Area would be more suitable for the following: The purpose of the Industrial District (I) is to foster orderly growth where the principal use of land is a mixture of industrial and heavy commercial. The intent of this district is to allow for industrial and heavy commercial development consistent with the recommendations of the Comprehensive Plan. In accordance with the Comprehensive Plan, the district will allow for and provide industrial and heavy commercial development that: (1) is compatible with adjacent development and the surrounding community; (2) will minimize conflict between land uses; and (3) is sensitive to its impact on surrounding land uses and the environment (natural and manmade).

6. Staff Recommendations

Staff's Position at this time, under the guidelines of current plans, policies and studies, is to approve the Major Site Plan because it is consistent with the current surrounding land uses and future land use recommendations.

7. Photographs

LightHeart Gear-Manufacturing and Production





HENDERSON COUNTY MAJOR SITE PLAN REVIEW APPLICATION

CONTACT INFO	RMATION			
Property Owner: Name: M	larc Penansky		Phone	828 279-0940
Complete A	ddress: 10 Ashbrook M	eadows, Fletcher, NC 287	32	
Applicant:				
	ame as Property Owner		Phone:	
Complete A				
Agent:				
	y Hauser, PLA, PE		Phone:	828 337-5173
Complete A	ddress: 231 Haywood S	treet, Asheville, NC 28801		
Agent Form	(Circle One): Yes	No		
Plan Preparer:				
		o Tony Hauser, PLA, PE	-	828 771-0441
Complete A	ddress: 231 Haywood S	Street, Asheville, NC 28801	1	
PARCEL INFORM PIN: 9652-52-444 Zoning District: Supplemental Requiremental Requiremental Permitted by Right		Watershed: Frence Floodplain: NA	cher ch Broad	
	load and Old Henderson	ville Road.		miles south of the intersection
		County Use Only		
Fee: \$	Paid:	Method:	Rece	eived by:

APPLICATION IDENTIFICATION	N.C. DEPARTMENT OF TRANSPORTATION
Driveway Date of 2/14/2018	STREET AND DRIVEWAY ACCESS
Permit No. • Application	PERMIT APPLICATION
County: Henderson	-
Development Name: Lightheart Gear LOCATION OF PROP	PERTY:
Route/Road: Brickton Road	
Exact Distance 0.22 X Miles	
From the Intersection of Route Noand Route Noand Route No.	
Property Will Be Used For: ☐ Residential /Subdivision 🗵 Commercial ☐ Edu	ucational Facilities
Property: ☐ is 🗵 is not within	nCity Zoning Area.
AGREEMENT	
• I, the undersigned property owner, request access and permission of-way at the above location.	to construct driveway(s) or street(s) on public right-
 I agree to construct and maintain driveway(s) or street entrance(s) Street and Driveway Access to North Carolina Highways" as adopted Transportation. 	,
 I agree that the driveway(s) or street(s) will be constructed as show I agree that that driveway(s) or street(s) as used in this agreement speed change lanes as deemed necessary. I agree that if any future improvements to the roadway become neclocated on public right-of-way will be considered the property of the will not be entitled to reimbursement or have any claim for present I agree that this permit becomes void if construction of driveway(s) specified by the "Policy on Street and Driveway Access to North Ca I agree to pay a \$50 construction inspection fee. Make checks pay application is denied. I agree to construct and maintain the driveway(s) or street(s) in a sathe public travel. I agree to provide during construction proper signs, signal lights, flatof traffic in conformance with the current "Manual on Uniform Traffic Amendments or Supplements thereto. Information as to the above District Engineer. I agree to indemnify and save harmless the North Carolina Department of damage that may arise by reason of this construction. I agree that the North Carolina Department of Transportation will as be caused to such facilities, within the highway right-of-way limits, in agree to provide a Performance and Indemnity Bond in the amount construction proposed on the State Highway system. The granting of this permit is subject to the regulatory powers of the law and as set forth in the N.C. Policy on Driveways and shall not be a Agree to NOTIFY THE DISTRICT ENGINEER WHEN THE PR COMPLETED. 	cessary, the portion of driveway(s) or street(s) e North Carolina Department of Transportation, and I expenditures for driveway or street construction. or street(s) is not completed within the time arolina Highways". Vable to NCDOT. This fee will be reimbursed if affer manner so as not to interfere with or endanger aggers and other warning devices for the protection is Control Devices for Streets and Highways" and e rules and regulations may be obtained from the ment of Transportation from all damages and claims assume no responsibility for any damages that may in carrying out its construction. The NC Department of Transportation as provided by the Construction as a contract access point.

NOTE: Submit Four Copies of Application to Local District Engineer, N.C. Department of Transportation 61-03419

TEB 65-04rev.

2004-01

SIGNATURES (OF APPLICA	NT
COMPANY SIGNATURE ADDRESS X X Phone No. X	NAME SIGNATURE ADDRESS	X X X
AUTHORIZED AGENT COMPANY Anchor QEA of NC, PLLC - Tony Hauser, PLA, PI SIGNATURE ADDRESS 231 Haywood St., Asheville, NC 28801 Phone No. 828 337-5173	SIGNATURE	WITNESS
APPRO	OVALS	
APPLICATION RECEIVED BY DISTRICT ENGINEER		DATE
SIGNATURE		DATE
APPLICATION APPROVED BY LOCAL GOVERNMENTAL AUTHORITY (when	n required)	
SIGNATURE	TITLE	DATE
APPLICATION APPROVED BY DISTRICT ENGINEER		
SIGNATURE		DATE
INSPECTION BY NCDOT		
SIGNATURE	TITLE	DATE
COMMENTS:		

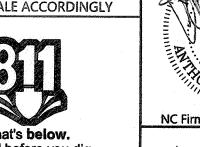
APPOINTMENT OF AGENT FORM (OPTIONAL)

MARC PENAN	owner of proper	ty located on OUD HE	NDGESONVILLE RA.
(Name)			(Street Name)
recorded in 2017/10965	and having a pa	rcel identification number	er of9652-52-4440
(Deed Boo	ok/Page)		(PIN)
located in Henderson Co	unty, North Carolina, do here	by appointTony Haus	er, PLA, PE
			(Agent's Name)
agent in all matters, for official correspondence.	plication to the Planning Demail and informal except as st	ated herein, and authoriz	te him/her to receive all
I however understand that required by any applicab	at as the listed property owner le ordinance.	r, I must sign all affidavi	ts and statements
Marc Per	analy	Feli	15, 2018
Prop	perty Owner()		Date

	SIGNATURES	OF APPLICA	NT
COMPANY SIGNATURE ADDRESS	PROPERTY OWNER (APPLICANT) X POGO LAND HOLDINGS LLC Mare Perrander X LO ASHBROOK MERDOWS XFLORING, NC Phone No. X828 279-0	NAME SIGNATURE ADDRESS	WITNESS X RUSSELL C. ROBINETTE Pend c- Reliebly X 102 ELDEN ST. X HENDERSONILLE NC 28791
COMPANY SIGNATURE ADDRESS	Phone No.	_ NAME _ SIGNATURE _ ADDRESS	WITNESS
		OVALS	
APPLICATION	RECEIVED BY DISTRICT ENGINEER		
:	SIGNATURE		DATE
APPLICATION .	APPROVED BY LOCAL GOVERNMENTAL AUTHORITY (whe	n required)	
	SIGNATURE	TITLE	DATE
APPLICATION	APPROVED BY DISTRICT ENGINEER		TOTAL STATE OF THE
	SIGNATURE	******	DATE
INSPECTION B	Y NCDOT	2 (1114-211-111-11-11-11-11-11-11-11-11-11-11-1	
	SIGNATURE	TITLE	DATE
COMMENTS:		<u> </u>	

LIGHTHEART GEAR

AT FULL SIZE, IF NOT ONE INCH SCALE ACCORDINGLY



Know what's below. Call before you dig.

HOOPERS CREEK TOWNSHIP HENDERSON COUNTY, NORTH CAROLINA

DRAWING SET CONTENT

SHEET NO.	SHEET TITLE
C-1.0	COVER SHEET
S-1	SURVEY
C-2.0	GENERAL NOTES
C-3.0	SITE PLAN
C-4.0	GRADING AND DRAINAGE PLAN
C-5.0	LANDSCAPE PLAN
C-6.0	SITE DETAILS 1
C-7.0	DRAINAGE DETAILS
C-8.0	LANDSCAPE DETAILS

DATA BLOCK

PROPERTY OWNER:

POGO LAND HOLDINGS, LLC 10 ASHBROOK MEADOWS FLETCHER, NC 28732 **CONTACT PERSON:** MARC PENANSKY PHONE NUMBER: 828-279-0940 DESIGN PROFESSIONAL: ANCHOR QEA OF NORTH CAROLINA, PLLC. 231 HAYWOOD STREET ASHEVILLE, NC 28801 CONTACT: TONY HAUSER, PLA, PE (828) 281-3350 PROJECT NAME: LIGHTHEART GEAR PROJECT LOCATION: LOT 3A - BRICKTON INDUSTRIAL SUBDIVISION OLD HENDERSONVILLE ROAD HOOPERS CREEK TOWNSHIP HENDERSON COUNTY, NC PIN #: 9652-52-4440 **ZONING DISTRICT: I (INDUSTRIAL)** PROPOSED USE: INDUSTRIAL SEWING FACILITY PROPERTY SIZE: 3.36 ACRES TOTAL DISTURBED AREA: 0.87 ACRES **ESTIMATED EARTH WORK VOLUMES:** CUT: 157 CY FILL: 1452 CY BALANCE: -1295 CY FILL FACTOR OF 1.15 ADDED EARTHWORK VOLUMES INCLUDE IN SITU TOPSOIL

PROPOSED BUILDING (1 STORY): 7,520 SF

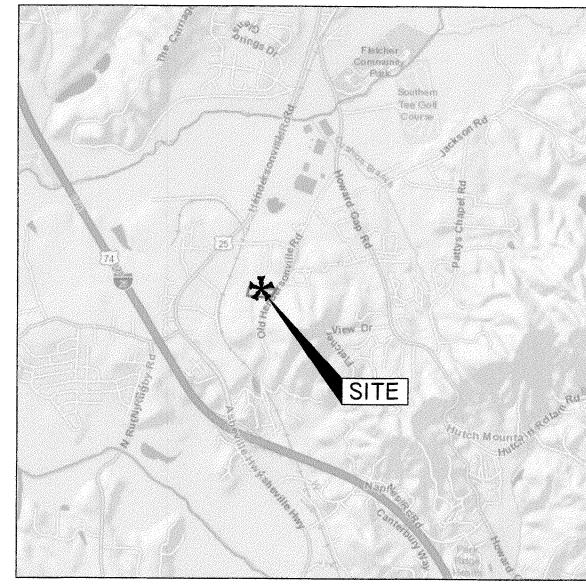
DEVELOPMENT REQUIREMENTS

BUILDING AREA: 7,520 SF REQUIRED PARKING - COMMERCIAL: 1 SPACE/500SF = 15 SPACES **TOTAL SPACES PROVIDED= 15** (INCLUDING 1 ACCESSIBLE SPACE) REQUIRED LANDSCAPING PARKING LOT: 1 TREE/5 PARKING SPACES = 3 TREES TREES PROVIDED = 3

ABBREVIATIONS TABLE

-BOTTOM OF CURB -BOTTOM OF WALL -DOWNSPOUT -EDGE OF PAVEMENT -EXISTING -HIGH POINT -INVERT -LINEAR FEET **-LOW POINT** MAX -MAXIMUM MIN -MINIMUM -TOP TC -TOP OF CURB -TRENCH DRAIN TW -TOP OF WALL TYP -TYPICAL **CABC -COMPACTED AGGREGATE BASE COURSE** B&B -BALLED AND BURLAPPED

VICINITY MAP

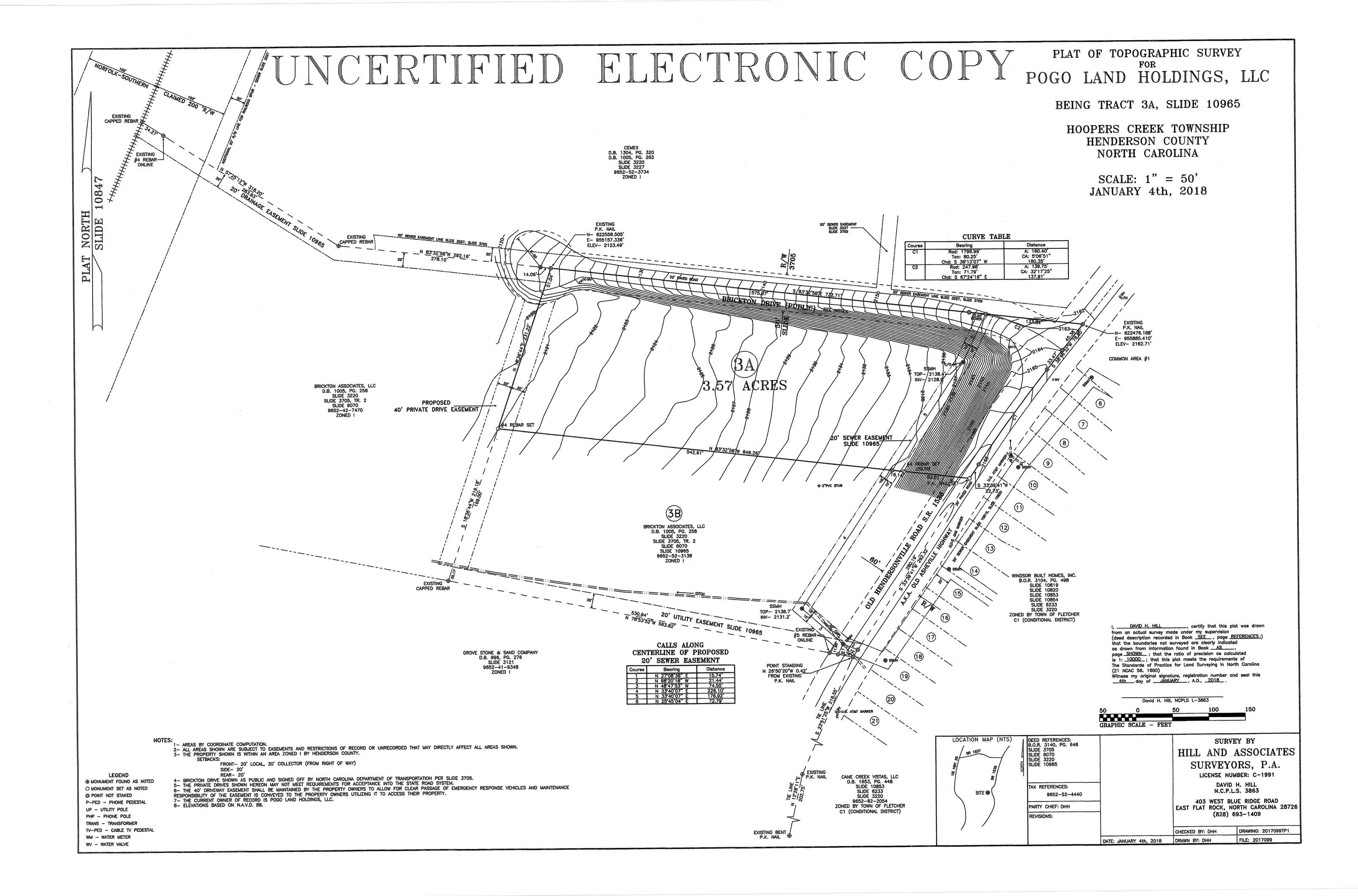


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- 1. BOUNDARY SURVEY PROVIDED BY HILL AND ASSOCIATES SURVEYORS PA. 2. CONTOUR ELEVATIONS BASED ON FIELD VERIFIED SURVEY DATA.
- 3. PROJECT TO BE CONSTRUCTED IN 1 PHASE.
- 4. ALL IMPROVEMENTS, MATERIALS, AND METHODS SHALL CONFORM TO THE NORTH CAROLINA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES, LATEST EDITION, UNLESS OTHERWISE NOTED ON THE PLANS OR SUPERSEDED BY ANOTHER JURISDICTION HAVING AUTHORITY (JHA).

5. ALL PAVEMENT MARKINGS SHALL CONFORM TO NODOT STANDARDS. 6. ALL TRAFFIC CONTROL SIGNS SHALL CONFORM TO THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES STANDARDS, LATEST EDITION.

7. THE CONTRACTOR SHALL PROTECT EXISTING PROPERTY MONUMENTATION AND PRIMARY CONTROL. ANY SUCH POINTS WHICH THE CONTRACTOR BELIEVES WILL BE DESTROYED SHALL HAVE OFFSET POINTS ESTABLISHED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. ANY MONUMENTATION DESTROYED BY THE CONTRACTOR SHALL BE REESTABLISHED AT HIS EXPENSE.

8. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO: A.) PREVENT ANY DAMAGE TO PRIVATE PROPERTY AND PROPERTY OWNER'S POLES, FENCES, SHRUBS, ETC. B.) PROTECT ALL UNDERGROUND UTILITIES. C.) NOTIFY ALL UTILITY COMPANIES AND FIELD VERIFY HORIZONTAL AND VERTICAL LOCATION OF ALL UTILITIES PRIOR TO START OF CONSTRUCTION. NOTIFY OWNER OF ANY POTENTIAL CONFLICTS WHICH MAY EXIST BETWEEN THE EXISTING UTILITIES AND CONSTRUCTION PLANS.

9. BARRICADING AND TRAFFIC CONTROL DURING CONSTRUCTION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL CONFORM TO THE NCDOT STANDARD SPECIFICATIONS AND DRAWINGS. PEDESTRIAN AND VEHICULAR TRAFFIC FLOW SHALL BE MAINTAINED DURING ALL PHASES OF THE CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING TRAFFIC SAFETY MEASURES FOR WORK ON PROJECT 10. CONTRACTOR SHALL MAINTAIN DRAINAGE AT ALL TIMES DURING CONSTRUCTION PONDING OF WATER IN STREETS, DRIVES, TRUCK COURTS, TRENCHES, ETC. WILL NOT BE ACCEPTABLE.

11. ANY DAMAGES THAT MAY OCCUR TO REAL PROPERTY OR EXISTING IMPROVEMENTS SHALL BE RESTORED BY THE CONTRACTOR TO AT LEAST THE SAME CONDITION THAT THE REAL PROPERTY OR EXISTING IMPROVEMENTS WERE IN PRIOR TO THE DAMAGES. THIS RESTORATION SHALL BE SUBJECT TO THE OWNER'S APPROVAL; MOREOVER, THIS RESTORATION SHALL NOT BE A BASIS FOR ADDITIONAL COMPENSATION TO THE CONTRACTOR. RESTORATION SHALL INCLUDE, BUT NOT BE LIMITED TO, REGRASSING, REVEGETATION, REPLACING FENCES, REPLACING TREES, ETC. 12. WHERE PRESENT, CONTRACTOR SHALL MAINTAIN EXISTING SANITARY SEWER AND

WATER SERVICE AT ALL TIMES DURING CONSTRUCTION. 13. CONTRACTOR IS RESPONSIBLE FOR COORDINATION WITH UTILITY COMPANIES AND ADJUSTMENT OF EXISTING SANITARY SEWER CLEANOUTS, WATER METERS AND ANY OTHER

APPURTENANCES TO NEW GRADE AS REQUIRED. 14. CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL STORM WATER POLLUTION PREVENTION LAWS AND ORDINANCES. 15. PAVEMENT REMOVAL AND REPAIR SHALL CONFORM TO NCDOT REQUIREMENTS. ALL SAWCUTS SHALL BE FULL DEPTH CUTS. CONTRACTOR SHALL MAKE EFFORTS TO PROTECT CONCRETE EDGES. ANY LARGE SPALLED OR BROKEN EDGES SHALL BE REMOVED BY

SAWCUTTING PAVEMENT PRIOR TO REPLACEMENT. 16. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL EROSION CONTROL MEASURES THROUGH THE COMPLETION OF THE PROJECT AND THROUGH THE ESTABLISHMENT OF VEGETATION SUFFICIENT TO PROVIDE EROSION PROTECTION CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL TEMPORARY EROSION CONTROL MEASURES PRIOR TO PROJECT CLOSE-OUT.

17. PRIOR TO BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY THAT ALL REQUIRED PERMITS AND APPROVALS HAVE BEEN OBTAINED FROM ALL REGULATORY AUTHORITIES.

18. ALL DISTURBED AREAS ARE TO BE STABILIZED AND SEEDED WITHIN 14 DAYS OF DISTURBANCE UNLESS OTHERWISE NOTED.

19. LIGHTING MITIGATION IS REQUIRED FOR ALL OUTDOOR LIGHTING.



1. ALL CONCRETE CURB, WALK, AND HARDSCAPE SURFACES SHALL BE CONSTRUCTED ON 6" MIN. OF COMPACTED ABC.

2. NEW CONCRETE WALK INSTALLED ADJACENT TO EXISTING CONCRETE CURB AND/OR WALK SHALL BE DOWELED OR OTHERWISE PHYSICALLY CONNECTED TO PREVENT DIFFERENTIAL MOVEMENT. SEE DETAIL

3. UNLESS OTHERWISE NOTED, ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI AT 28 DAYS.

4. CONTRACTOR SHALL COVER ALL CASTINGS WITH TAR PAPER, OR SIMILAR PROTECTION, PRIOR TO PAVING. CASTINGS WITH EVIDENCE OF PAVING MATERIALS SHALL BE CLEANED BY THE CONTRACTOR WITH NO ADDITIONAL COST TO THE CONTRACT.

1. THIRD PARTY TESTING SHALL BE REQUIRED FOR THE SUBGRADE, AGGREGATE BASE COURSE (ABC) AND TRENCH BACKFILL.

2. SUBGRADE MOISTURE DENSITY TESTING SHALL BE PROVIDED AT ONE TEST PER SOIL TYPE AND COMPACTION TESTING AT ONE TEST PER 400 SF. ABC TESTING SHALL INCLUDE 1 MOISTURE-DENSITY TEST PER SOURCE AND COMPACTION TESTING AT ONE TEST PER 400 SF.

3. TRENCH BACKFILL SHALL INCLUDE ONE MOISTURE-DENSITY TEST PER SOIL TYPE AND ONE COMPACTION TESTING AT ONE PER 400 SF PER LIFT.

GRADING NOTES: (APPLICABLE TO ALL SHEETS)

1. UNLESS OTHERWISE NOTED IN THESE PLANS, SITE GRADING SHALL BE PERFORMED IN ACCORDANCE WITH APPENDIX J OF THE NC BUILDING CODE.

2. THE SURFACE OF AREAS TO BE GRADED SHALL BE PREPARED TO RECEIVE FILL BY REMOVING VEGETATION, TOPSOIL, AND OTHER UNSUITABLE MATERIALS, AND SCARIFYING THE GROUND TO PROVIDE A BOND WITH THE FILL MATERIAL

3. WHERE EXISTING GRADE EXCEEDS 5:1 (HORIZONTAL:VERTICAL) AND THE DEPTH OF FILL EXCEEDS 5 FEET, BENCHING SHALL BE PROVIDED. A 2-FOOT DEEP BY 10-FOOT WIDE KEY SHALL BE PROVIDED AT THE TOE OF THE FILL SLOPE. REFER TO NC BUILDING CODE SECTION 107 FOR ADDITIONAL DETAIL.

4. CERTIFICATION OF CUT AND FILL SLOPES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE MADE BY A GEOTECHNICAL ENGINEER LICENSED TO PRACTICE IN THE STATE OF NORTH CAROLINA. UNLESS OTHERWISE NOTED, ALL CUT AND FILL SLOPES PROPOSED BY THESE PLANS SHALL BE 2:1 (HORIZONTAL:VERTICAL) OR

5. CUT AND FILL SLOPES (EMBANKMENTS) SHALL BE CONSTRUCTED IN ACCORDANCE WITH NCDOT STANDARD SPECIFICATION SECTION 235 OR THE GEOTECHNICAL (SOILS) REPORT RECOMMENDATIONS, WHICHEVER IS MORE RESTRICTIVE. AT A MINIMUM, ALL FILL SLOPES SHALL BE PLACED IN 10-INCH MAXIMUM LIFTS COMPACTED TO NOT LESS THAN 95 PERCENT DENSITY (STANDARD PROCTOR). CONTRACTOR SHALL ARRANGE FOR INDEPENDENT COMPACTION TESTING RESULTS TO BE PAID FOR BY THE OWNER/DEVELOPER.

6. NO GRADING SHALL OCCUR WITHIN 2 FEET OF A PROPERTY LINE WITHOUT WRITTEN PERMISSION FROM THE ADJACENT PROPERTY OWNER.

7. UNLESS OTHERWISE INDICATED IN THESE PLANS TERRACES SHALL BE PROVIDED AS FOLLOWS: WHERE GRADES EXCEED 3:1 (HORIZONTAL: VERTICAL), TERRACES AT LEAST 6 FEET IN WIDTH SHALL BE CONSTRUCTED AT NOT MORE THAN 30-FOOT VERTICAL INTERVALS ON ALL CUT OR FILL SLOPES. SWALES SHALL BE PROVIDED ON TERRACES IN ACCORDANCE WITH NC BUILDING CODE SECTION J109.

8. FINE GRADING AND SEEDING SHALL OCCUR AT ALL AREAS DISTURBED BY THE WORK OF THE PROJECT THAT ARE NOT PROGRAMMED FOR PAVEMENT OR BUILDINGS. 9. FINE GRADING SHALL INCLUDE APPLICATION OF 2-3 INCHES OF TOPSOIL AND REMOVAL OF ALL DEBRIS (ROOTS, ROCKS, TRASH, AND OTHER FOREIGN MATERIAL) LARGER THAN 2 INCHES IN ANY DIMENSION. FINE GRADING SHALL ACHIEVE POSITIVE DRAINAGE AWAY FROM BUILDINGS AND IN GENERAL ACCORDANCE WITH THE DRAINAGE PLANS. LANDSCAPE AREAS SHALL NOT BE SLOPED LESS THAN 2%.

10. GROUND COVER REQUIREMENTS: ALL DISTURBED AREAS SHALL BE PLANTED WITH AN APPROVED GROUND COVER WITHIN 14 CALENDAR DAYS. ALL PERIMETER DIKES, SWALES, DITCHES, PERIMETER SLOPES, AND ALL SLOPES STEEPER THAN 3:1 MUST BE STABILIZED IN 7 DAYS. SLOPES 50' OR GREATER IN LENGTH MUST BE STABILIZED WITHIN 7 DAYS EXCEPT WHEN THE SLOPE IS FLATTER THAN 4:1. SLOPES LESS THAN 50' MUST BE STABILIZED IN 14 DAYS EXCEPT WHEN THE SLOPE IS STEEPER THAN 3:1, THEN THE 7 DAY REQUIREMENT APPLIES. INSTALL TEMPORARY SEEDING ON ALL AREAS THAT WILL BE LEFT IDLE FOR MORE THAN 14 DAYS. HARDWOOD MULCH IS AN ACCEPTABLE TEMPORARY COVER BUT MAY NOT BE BLENDED INTO THE SUBGRADE AND WILL BE REQUIRED TO BE REMOVED PRIOR TO CONTINUATION OF THE WORK. FOR PROJECT AREAS WITHIN THE "HIGH QUALITY WATER ZONE" (15A NCAC 04A.0105), STABILIZATION SHOULD BE ACHIEVED AS SOON AS PRACTICABLE BUT NO LATER THAN 7 DAYS.

11. DUST CONTROL: CONTRACTOR SHALL BE RESPONSIBLE FOR CONTROLLING DUST GENERATED BY THE WORK OF THE PROJECT. INSTALL TEMPORARY OR PERMANENT SURFACE STABILIZATION MEASURES IMMEDIATELY AFTER COMPLETING LAND DISTURBANCE. LANDSCAPE AREAS SHALL BE PLANTED AND STABILIZED WITH MULCH OR GROUNDCOVER AS SOON AS POSSIBLE. AREAS SUBJECT TO TRAFFIC SHALL BE STABILIZED WITH THE APPLICATION OF WATER (SPRINKLING), SPRAY-ON ADHESIVES (E.G. ASPHALT EMULSION, ETC.), CALCIUM

DUST CONTROL SHALL INCLUDE THAT CAUSED BY SAW-CUTTING AND SIMILAR DUST GENERATING ACTIVITIES. WIND FENCE OR SIMILAR BARRIERS MAY BE REQUIRED DURING PARTICULARLY WINDY, DRY CONDITIONS. TILLAGE (I.E. DEEP PLOWING TO BRING CLODS TO THE SURFACE) MAY BE USED AS AN EMERGENCY MEASURE FOR LARGE OPEN AREAS. DUST CONTROL MEASURES SHALL BE MAINTAINED BY THE CONTRACTOR THROUGHOUT THE DRY WEATHER UNTIL ALL DISTURBED AREAS ARE STABILIZED.

SEEDING NOTES: (APPLICABLE TO ALL SHEETS)

1. SEED MIXES:

UNLESS OTHERWISE SPECIFIED ON THE LANDSCAPE PLAN, SEEDING SHALL CONSIST OF A MIX INCLUDING ALL OF THE FOLLOWING SPECIES: KENTUCKY BLUEGRASS – 1 LB/1000 SF

TALL FESCUE - 5 LB/1000 SF

FINE FESCUE - 1 LB/1000 SF ACCEPTABLE CULTIVARS OF THE ABOVE GRASSES ARE LISTED IN CAROLINA LAWNS: A GUIDE TO MAINTAINING QUALITY_TURF IN THE LANDSCAPE, TABLE 3. COOL-SEASON GRASS CULTIVARS WITH EXCELLENT PERFORMANCE IN NORTH CAROLINA AS PUBLISHED BY THE NORTH CAROLINA COOPERATIVE EXTENSION. THIS DOCUMENT IS AVAILABLE ONLINE AT: HTTP://WWW.TURFFILES.NCSU.EDU/PDFFILES/004175/CAROLINA LAWNS.PDF OR FROM THE ENGINEER. CONTRACTOR SHALL PROVIDE LABELS FOR THE SEED MIXES TO THE ENGINEER FOR APPROVAL PRIOR TO APPLICATION.

2. FERTILIZING: UNLESS OTHERWISE DETERMINED BY A SOIL TEST FOR THE SUBJECT PROPERTY, FERTILIZER SHALL BE APPLIED AT THE FOLLOWING RATES:

PRIOR TO PLANTING, SOIL SHALL BE PREPARED WITH THE FOLLOWING:

GROUND LIMESTONE: 75 LB/1000 SF

N-P-K STARTER FERTILIZER AT A RATE OF 1 LB NITROGEN/1000 SF AFTER PLANTING, SEEDED AREAS SHALL BE FERTILIZED A SECOND TIME, APPROXIMATELY SIX TO EIGHT WEEKS AFTER GERMINATION, USING A COMPLETE N-P-K TURF-GRADE FERTILIZER APPLIED AT A RATE OF 1 LB NITROGEN/1000 SF. THE FERTILIZER SHALL HAVE A 3-1-2 OR 4-1-2 ANALYSIS.

CONTRACTOR SHALL PROVIDE LABELS FOR THE FERTILIZER TO THE ENGINEER FOR APPROVAL PRIOR TO APPLICATION. 3. MOWING:

CONTRACTOR SHALL BE RESPONSIBLE FOR MOWING GRASS THROUGHOUT THE DURATION OF THE PROJECT. GRASS SHALL BE CUT TO A HEIGHT NO LESS THAN 2.5" WHEN IT HAS ACHIEVED A HEIGHT OF APPROXIMATELY 4". MOWING WITH A SHARP, MULCHING TYPE BLADE IS PREFERRED AND CLIPPINGS MAY BE LEFT IN PLACE. WHEN GRASS IS ALLOWED TO EXCEED THE PREFERRED HEIGHT FOR MOWING OR IF THE GRASS IS CUT DURING WET CONDITIONS, THE CLIPPINGS SHALL BE BAGGED OR RAKED AND REMOVED FROM THE SITE. 4. WATERING:

CONTRACTOR IS RESPONSIBLE FOR ESTABLISHING A CONTINUOUS, CLOSE STAND OF GRASS WITH NO GAPS OR BARE SPOTS EXCEEDING A HAND'S BREADTH. WHEN REQUIRED TO GERMINATE OR SUSTAIN THE GRASS UNTIL THE PROJECT IS COMPLETE, WATER SHALL BE APPLIED IN THE MORNING AT A RATE OF 0.5 INCH EVERY THREE TO FOUR DAYS.

LANDSCAPE NOTES: (APPLICABLE TO ALL SHEETS)

1. APPLICABLE STANDARDS: ALL MATERIALS SHALL BE SUBJECT TO APPROVAL BY THE LANDSCAPE ARCHITECT. THE OWNER SHALL RECEIVE TAGS FROM EACH PLANT SPECIES AND A LIST OF PLANT SUPPLIERS. WHERE ANY REQUIREMENTS ARE OMITTED FROM THE PLANT LIST, THE PLANTS FURNISHED SHALL MEET THE NORMAL REQUIREMENTS FOR THE VARIETY OR CULTIVAR PER THE AMERICAN STANDARD FOR NURSERY STOCK, LATEST EDITION PUBLISHED BY THE AMERICANHORT. 2. SUBSTITUTIONS: NO SUBSTITUTIONS OF PRODUCTS, PLANT TYPES OR SIZES SHALL BE MADE WITHOUT THE APPROVAL OF THE OWNER, LANDSCAPE ARCHITECT AND COUNTY REVIEW AGENCY, IF APPLICABLE. REQUESTS FOR SUBSTITUTIONS SHALL STATE THE REASONS FOR THE SUBSTITUTION REQUEST, THE SUGGESTED ALTERNATE, AND THE CHANGES IN COST. 3. QUANTITIES: QUANTITIES OF PLANTS AS SHOWN BY PLANT SYMBOL ON THE PLAN SHALL GOVERN OVER THE QUANTITIES SHOWN IN THE PLANT LIST. THE CONTRACTOR IS TO VERIFY PLANT LIST TOTALS WITH QUANTITIES SHOWN ON PLAN.

4. WARRANTY: WARRANT EACH PLANT TO REMAIN ALIVE AND BE IN HEALTHY, VIGOROUS CONDITION FOR A PERIOD OF 1 YEAR AFTER COMPLETION AND ACCEPTANCE OF THE PLANT MATERIAL AND INSTALLATION. INSPECTION OF PLANTS WILL BE MADE BY THE LANDSCAPE ARCHITECT OR ENGINEER AT THE EXPIRATION OF THE ONE 1 YEAR WARRANTY PERIOD. ALL PLANTS THAT ARE MISSING OR NOT IN A LIVE, HEALTHY GROWING CONDITION SHALL BE LISTED AND THE CONTRACTOR SHALL BE HELD LIABLE FOR REPLACEMENT WITH EQUIVALENT PLANTS OF SAME SPECIES AND SIZE.

5. ESTABLISHMENT PERIOD: THE PLANT ESTABLISHMENT PERIOD SHALL BE THE PERIOD OF TIME FROM THE BEGINNING OF THE CONTRACT TO THE END OF THE PLANT MATERIAL WARRANTY AND FINAL ACCEPTANCE BY THE LANDSCAPE ARCHITECT OR ENGINEER.

6. MAINTENANCE: THE CONTRACTOR SHALL CARE FOR ALL PLANTS DURING THE PLANT ESTABLISHMENT PERIOD AS MAY BE NECESSARY TO KEEP PLANTS IN A LIVE, HEALTHY GROWING CONDITION. THESE DUTIES SHALL INCLUDE:

A. PRUNING, CULTIVATING, REMOVAL OF WEEDS FROM PLANTING BEDS AND MULCH AREAS; REMOVE ALL WEEDS PRIOR TO REVIEW FOR COMPLETION. B. WATERING AT THE MINIMUM RATE RECOMMENDED BY THE NURSERY TO

ENHANCE EARLY ROOT GROWTH. C. ADJUSTMENT OF STAKES AND TIES TO MAINTAIN PLANT IN UPRIGHT AND PLUMB CONDITION.

D. RE-SET SETTLED PLANTS TO PROPER GRADES AND POSITION. RESTORE PLANTING SAUCER AND MULCH; ADDING PLANTING SOIL AND MULCH AS MAY BE REQUIRED. 7. PLANT CONDITION: ALL PLANTS SHALL BE IN A LIVE, HEALTHY, AND GROWING CONDITION BOTH AT THE DATE OF COMPLETION BEFORE ACCEPTANCE OF THE PROJECT BY THE JURISDICTIONAL ENGINEER AND AT THE END OF THE PLANT ESTABLISHMENT PERIOD.

1. PLANTS: ALL PLANTS SHALL BE NURSERY GROWN. THEY SHALL BE TYPICAL OF THEIR SPECIES, CULTIVAR OR VARIETY. THEY SHALL BE SOUND, HEALTHY AND VIGOROUS AND SHALL BE FREE OF DISEASE AND ANY EVIDENCE OF INSECTS. IF IN LEAF, THEY SHALL BE DENSELY FOLIATED, WITHOUT LEAF SPOTS, DISCOLORATION, CURL, WILTING, CHLOROSIS OR DAMAGE. THEY SHALL HAVE HEALTHY, WELL-DEVELOPED ROOT SYSTEMS.

2. MINIMUM SIZES: SIZES SPECIFIED IN THE PLANT LIST ARE THE MINIMUM SIZES TO WHICH THE PLANTS ARE TO BE JUDGED. MEASUREMENTS ARE NOT TO INCLUDE ANY TERMINAL GROWTH.

3. PLANT HARDINESS: THE SUPPLIER OF ALL PLANTS SHALL CERTIFY THAT THE ORIGIN OF THE PLANTS IS FROM HARDINESS ZONE 5 THROUGH 7 ONLY.

4. MULCH: IS TO BE DOUBLE SHREDDED HARDWOOD MULCH FOR TREES AND SHRUBS

5. TOPSOIL: ACCEPTABLE TOPSOIL SHALL BE FERTILE, WEED FREE, FRIABLE NATURAL LOAM, UNIFORM IN COMPOSITION, FREE OF STONES, LIMBS, PLANTS AND THEIR ROOTS, DEBRIS AND OTHER EXTRANEOUS MATTER OVER 1" IN DIAMETER. THE SOIL SHALL BE CAPABLE OF SUSTAINED PLANT GROWTH AND HAVE A 5% MINIMUM ORGANIC CONTENT. IN SITUATIONS REQUIRING A CUSTOM MIX OR STRUCTURAL SOIL. SPECIFICATIONS WILL BE PROVIDED BY THE LANDSCAPE ARCHITECT. 6. SOIL TESTING: PRIOR TO PLANTING, EXISTING SOILS AND TOPSOILS TO BE SPREAD SHALL BE TESTED BY AN APPROVED SOIL TESTING LABORATORY OR AGRICULTURAL EXTENSION SERVICE LABORATORY. TESTS SHALL INCLUDE MECHANICAL AND CHEMICAL ANALYSIS. A SOILS REPORT SHALL INCLUDE RECOMMENDATIONS FOR THE ADDITION OF FERTILIZER AND ADJUSTMENTS TO PH OR OTHER AMENDMENTS AND INDICATE THE AMOUNT OF ORGANIC MATTER. A WRITTEN REVIEW OF THE ANALYSIS IS REQUIRED TO BE SUBMITTED TO THE OWNER PRIOR TO INSTALLATION.

PERMITTING SUBMITTAL

LANDSCAPE INSTALLATION

1. VERIFY GRADES: PRIOR TO PLANTING, THE CONTRACTOR SHALL VERIFY THAT CONSTRUCTED GRADES ARE AS INDICATED ON THE PLANS. THE CONTRACTOR SHALL NOTIFY THE OWNER AND LANDSCAPE ARCHITECT IF ADJUSTMENT TO PLANT MATERIAL IS REQUIRED.

2. STAKE PLANT LOCATIONS: PRIOR TO PLANTING, THE CONTRACTOR SHALL LAY OUT THE EXTENT OF THE PLANT BEDS AND THE PROPOSED LOCATION FOR B&B MATERIAL FOR REVIEW.

3. PLANT BED EDGES/LINES: GROUPS OF SHRUBS, PERENNIALS AND GROUNDCOVERS SHALL BE PLACED IN A CONTINUOUS MULCH BED WITH SMOOTH CONTINUOUS LINES. ALL MULCHED BED EDGES SHALL BE CURVILINEAR IN SHAPE FOLLOWING THE CONTOUR OF THE PLANT

4. FIELD ADJUSTMENTS: THE CONTRACTOR IS TO FINELY ADJUST PLANT LOCATIONS IN THE FIELD AS NECESSARY TO BE CLEAR OF DRAINAGE SWALES AND UTILITIES. FINISHED PLANTING BEDS SHALL BE GRADED SO AS NOT TO IMPEDE DRAINAGE AWAY FROM BUILDINGS. SHRUBS PLANTED NEAR HVAC UNITS TO BE LOCATED SO THAT SHRUBS AT MATURITY WILL MAINTAIN 1 FOOT OF AIRSPACE BETWEEN UNIT AND PLANT. ANY PLANTING WHICH IS SHOWN ADJACENT TO CONDENSER UNITS SHALL BE PLANTED AS REQUIRED TO SCREEN THE UNIT. SHOULD THE UNIT BE INSTALLED IN A LOCATION DIFFERENT FROM THAT ON THE PLAN, IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE LANDSCAPE ARCHITECT, INSTALL THE MATERIALS IN THE NEW LOCATION AND ADJUST ADJACENT PLANTINGS ACCORDINGLY. 5. PLANTING: BACKFILL THE PLANTING HOLES WITH IN-SITU SOIL MATERIAL REMOVED FOR PLANTING PIT. FOLLOWING BACKFILL WATER TO THE POINT OF SATURATION AND TAMP TO COMPACT BACKFILL. ADD EXISTING SOIL TO BRING THE FINAL GRADE OF THE PLANTING HOLE TO THE SURROUNDING SOIL SURFACE. RAKE THE UNUSED SOIL OUTSIDE OF THE PLANTING HOLE TO EVENLY DISTRIBUTE EXCESS THROUGHOUT THE BED, TAKING CARE NOT TO CREATE A SOIL MOUND OR TO ALTER THE EXISTING GRADE

6. SLOPES: SHRUBS, GROUNDCOVERS AND PERENNIALS PLANTED ON SLOPES GREATER THAN 3:1 SHALL HAVE A NATURAL FIBER GEOTEXTILE WOVEN MESH MATERIAL PINNED TO THE GROUND PER MANUFACTURER'S SPECIFICATIONS. GROUNDCOVER BEDS SHALL HAVE 2" OF GROUND LEAF COMPOST SPREAD ONTO SLOPE PRIOR TO PLACING MESH. EXCAVATE PLANT PITS THROUGH MESH.

CONSTRUCTION SEQUENCE (APPLICABLE TO ALL SHEETS): 1. PROJECT DESCRIPTION: THE PURPOSE OF THIS PROJECT IS TO

DEVELOP A SMALL INDUSTRIAL FACILITY THE FACILITY WILL INCLUDE A METAL BUILDING (~7,500 SF), SMALL PARKING AREA (15 SPACES) WITH LOADING AREA AND DRIVEWAY TO ACCESS THE SITE. THE ANTICIPATED DISTURBANCE IS .87 AREAS WHICH FALLS UNDER THE ONE ACRE THRESHOLD FOR THE NEED OF A FORMAL EROSION AND SEDIMENT CONTROL PLAN. THE SITE IS 3.57 ACRES. DISTURBANCE WILL BE LIMITED TO 24% OF THE TOTAL SITE AREA. ALL SURROUNDING AREAS WILL BE PRESERVED IN THEIR NATURAL

2. THE SITE IS LOCATED IN A APPROVED INDUSTRIAL SUBDIVISION AND IS CURRENTLY UNDEVELOPED. THERE IS AN LARGE BANK THAT SLOPES INWARD ALONG THE NORTHEAST AND EASTERN BOUNDARIES OF THE PROPERTY. THE PROJECT AREA HAS A GENTLE SLOPE OF LESS THAN 5% SLOPING FROM THE EAST TO WEST. THE MAJORITY OF THE VEGETATION ON THE SITE CONSISTS OF GRASSES. 3. ADJACENT PROPERTIES ARE ALSO ZONED INDUSTRIAL AND ARE MAINLY UNDEVELOPED. DRAINAGE AREA FOR THE SITE IS MOSTLY CONTAINED WITHIN THE PROPERTY.

PLANNED PRACTICES:

EVEN THOUGH THIS PROJECT FALLS UNDER THE REQUIREMNT FOR AN EROSION CONTROL PLAN AND PERMIT WITH HENDERSON COUNTY, IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN AND PROVIDE EROSION AND SEDIMENTATION CONTROL MEASURES TO CONTAIN SEDIMENT ON-SITE. ADDITIONAL MEASURES MY BE NEEDED BETWEEN THE TIME THE GRADING OPERATION IS BEGUN AND THE TIME IT IS COMPLETED.

INITIATE THE CLEARING (STRIPPING) AND GRADING OPERATION. MAINTAIN ALL SEDIMENT CONTROL DEVICES THROUGHOUT THE CONSTRUCTION PHASE AND UNTIL ALL DISTURBED AREAS HAVE BEEN STABILIZED.

INSTALL PRINCIPAL STORM DRAINAGE STSTEMS, INSTALL CULVET AND DRAINGE SWALES AND SEEDED OR OTHERWISE STABILIZED WITHIN 14 CALENDAR DAYS OF GRADING.

AFTER CONSTRUCTION AND ALL DISTURBED AREA HAVE BEEN STABILIZED, CONTRACTOR SHALL REMOVE ALL TEMPORARY SEDIMENT CONTROL MEASURES.

REQUEST FINAL APPROVAL FROM ENGINEER AND JURISDICTION HAVING AUTHORITY.

NC Firm License No. P-1649

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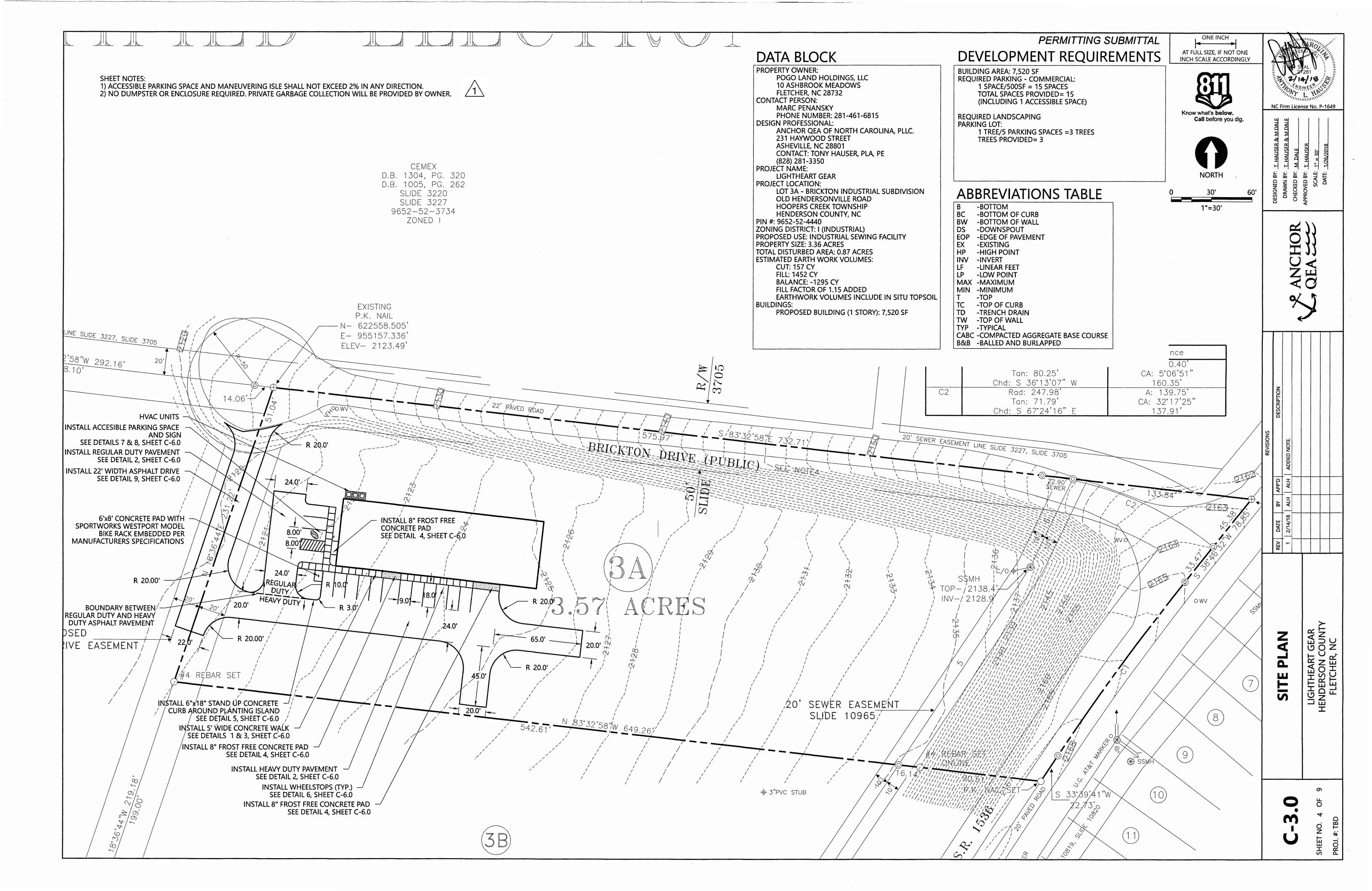
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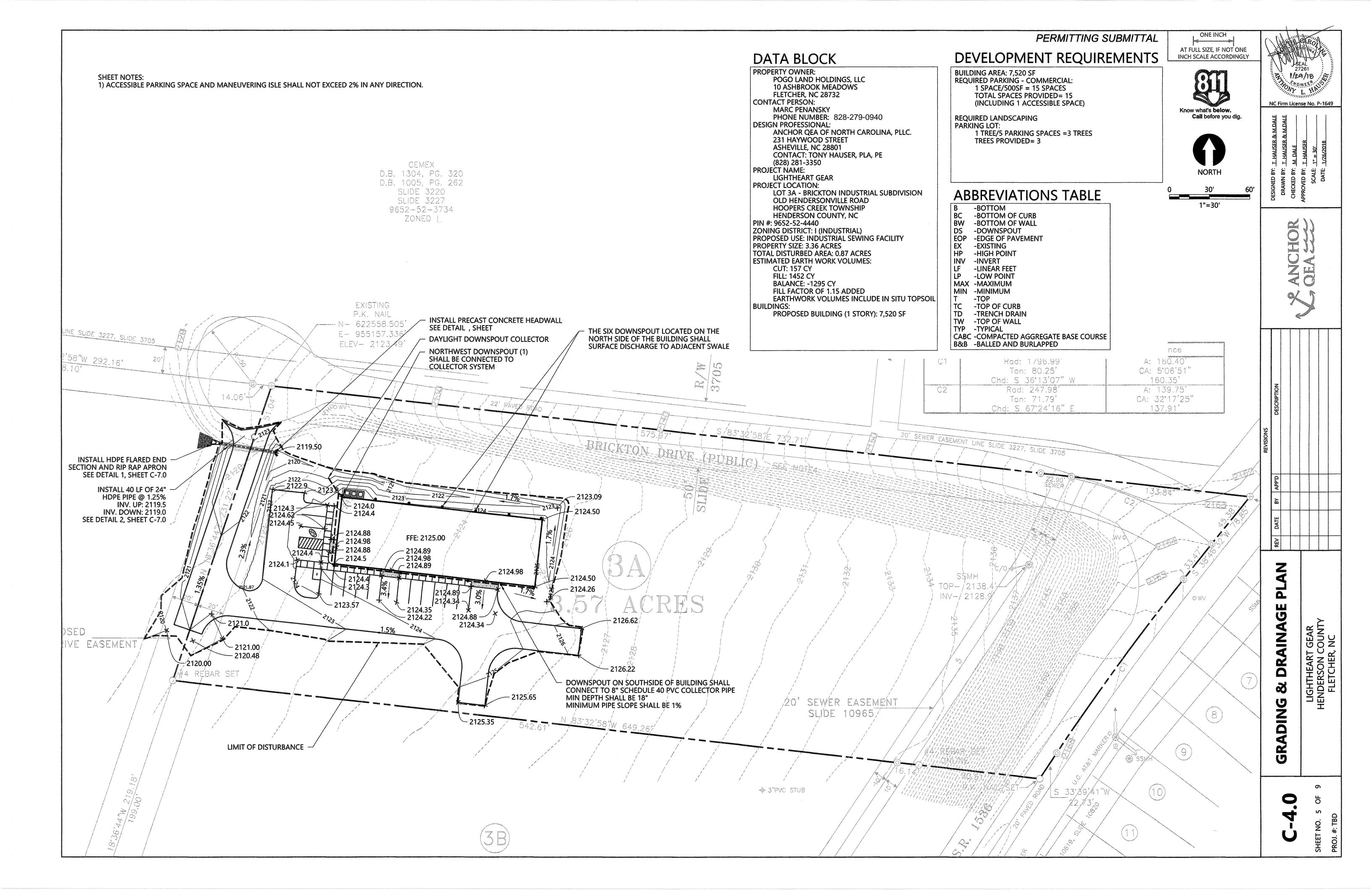
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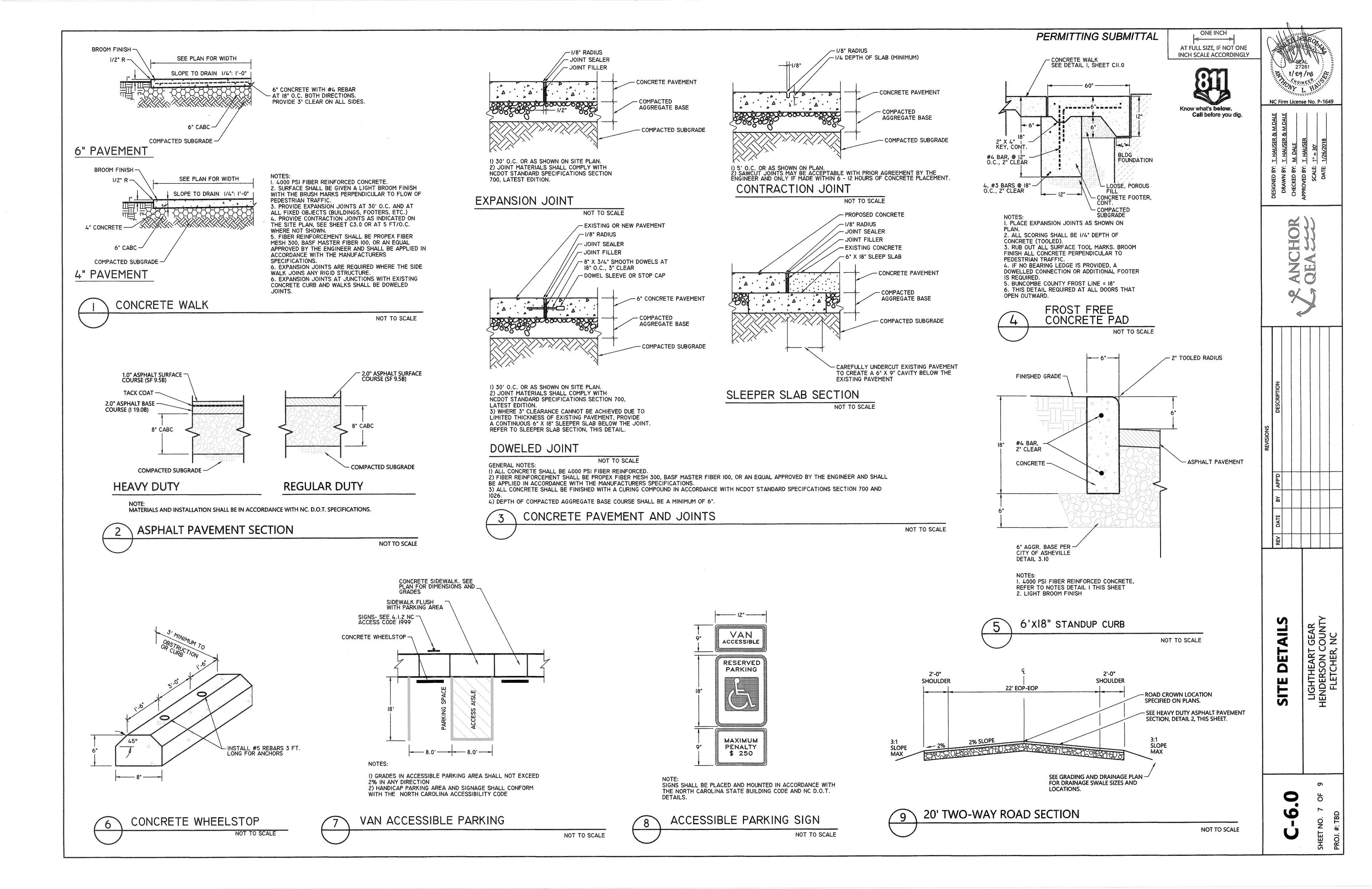
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lant List - Lightheart Gea	<u>)</u> r								- Committee of the comm	PROPERTY OWNER:		BUILDING AREA: 7.520 SF					SEAL 27261
ym. Botanical Name	Common Name	Size	Condition	Height	QTY.	Comments		Size: HxS	Bloom Time	POGO LAND HOLDING 10 ASHBROOK MEADO	GS, LLC DWS	REQUIRED PARKING - COM 1 SPACE/500SF = 15	IMERCIAL: SPACES		EE8	THE NAME OF THE PARTY OF THE PA	29/18 GINEER
Trees - Deciduous		-	enconstability-desper							FLETCHER, NC 28732		TOTAL SPACES PROV	/IDED= 15		K B	. ""	111111111
	Paperbark Maple	2" Cal.	B&B	12'-14'	2			25'x20'	NA	CONTACT PERSON: MARC PENANSKY PHONE NUMBER: 828	R-279-0940	REQUIRED LANDSCAPING	•	к	(now what's below. Call before you dig.	NC Firm Lice	ense No.
CL Cladrastis lutea CK Cornus Kousa	Yellowwood Kousa Dogwood	2" Cal. 1.5" Cal.	B&B B&B	12'-14' 8'-10' Min.	5	White, showy fragrant flow White showy flowers	ers. Good fall color	40'x45'	Spring May Lyne	DESIGN PROFESSIONAL: ANCHOR QEA OF NOR		PARKING LOT:			Can belote you dig.	ADALI	
Shrubs - Deciduous	Kousa Dogwood	1.5 Cal.	D&D	0-10 141111.		virile snowy nowers		25'x25'	May-June	231 HAYWOOD STREET	T	1 TREE/5 PARKING S TREES PROVIDED= 3	PACES =3 TREES			R & A	86
CA Clethra alnifolia 'Ruby Spice'	Sweetshrub	3 Gal.	Cont.	18"	2	Red fragrant flowers		5'x4'	July August	ASHEVILLE, NC 28801 CONTACT: TONY HAUS	SER, PLA, PE					HAUSI HAUSI DALE	HAUSI = 30'
FG Fothergilla gardenia	Dwarf Fothergilla	3 Gal.	Cont.	18"	15	White flowers		4'x4'	April May	(828) 281-3350 PROJECT NAME:		.~			NORTH	BY: LL	# - # ::
AE Abelia 'Edward Groucher' IV Ilex Verticullata	Dwarf Abelia Winterberry	3 Gal. 3 Gal.	Cont.	18" 18"	8	Pink Red berries in winter, Inclu	do 1 male for pollination	4'x4' 6'x6'	May-September	PROJECT NAME: LIGHTHEART GEAR PROJECT LOCATION:						NED WE	VED B
V TICA VCI BOURDEA	VVIIICIDEITY	j O Cai.	OONE.			red bernes in winter, mold	de i maie foi poinnauon	0.00	June-July	LOT 3A - BRICKTON IN OLD HENDERSONVILLE	NDUSTRIAL SUBDIVISION E ROAD	ABBREVIATIO	NS TABLE	0	30' 6	DESIGNATION OF THE CHECK	APPRC
OTES: 1) All plant material must meet andards for Nursery Stock, ANSI Z60. dicated on planting plan take preceder	0.1. 2) In case of a disc	crepancy, r			9"					HOOPERS CREEK TOWN HENDERSON COUNTY, PIN #: 9652-52-4440 ZONING DISTRICT: I (INDUST PROPOSED USE: INDUSTRIAL PROPERTY SIZE: 3.36 ACRES TOTAL DISTURBED AREA: 0.87 ESTIMATED EARTH WORK VO CUT: 157 CY FILL: 1452 CY BALANCE: -1295 CY	/NSHIP /, NC FRIAL) L SEWING FACILITY B7 ACRES	B -BOTTOM BC -BOTTOM OF CURB BW -BOTTOM OF WALL DS -DOWNSPOUT EOP -EDGE OF PAVEMENT EX -EXISTING HP -HIGH POINT INV -INVERT LF -LINEAR FEET LP -LOW POINT MAX -MAXIMUM			1"=30'	9	
			P.k N- 62	KISTING K. NAIL 22558.505'	*					FILL FACTOR OF 1.15 A	ES INCLUDE IN SITU TOPSOIL	MIN -MINIMUM T -TOP TC -TOP OF CURB TD -TRENCH DRAIN TW -TOP OF WALL TYP -TYPICAL				94	
DE 3227, SLIDE 3705				55157.336' · 2123.4 %	TREE	LL TREE RING AROUND BASE RING SHALL HAVE 3"-4" TRIPL	OF TREE (TYP.) E GROUND HARDWOOD N	MULCH				CABC -COMPACTED AGGRE B&B -BALLED AND BURLA	EGATE BASE COURSE	ි.			
292.16' 20'	7 30 /	// /		=	SEE C PLAN	EDGE DETAIL 1, SHEET C-8.0 ITING BED SHALL HAVE 3"-4"	TRIPLE GROUND HARDWO	OOD MULCH	position LO			T 00	25,	0			
			/ //	11/					2/2			Tan: 80. Chd: S 36°1.	3'07" W	CA: 5°06'5 160.35'			
	14.06'+			4//		A			produced (confuse)			C2 Rad: 247 Tan: 71.		A: 139.75 CA: 32°17'2		PTION	
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1-AG	3-IV 1-CK		5-AE 7-FG PLAN HAVE HARD	AE IV FG CA AE CA FG ST AT TING ISLAND	SHALL GROUND CH	122	4-CL	BACE		REE. DUND HARDWOOD MULCH	EASEMENT	EASEMENT LINE SLIDE 3227, SLIDE TOP-/2138.4'	он о типунктиция до на почит на также на типунктиция о на почит до то на почит до то на почит до то на почит д С	137.91' 133.84 C3.133.84		LANDSCAPE PLAN	
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1-AG	3-IV 1-CK		5-AE 7-FG PLAN HAVE HARD	AE IV FG CA AE CA FG ST AT TING ISLAND	SHALL GROUND CH	2124	4-CL	STALL TREE RING SHALL M 649.26'		REE. DUND HARDWOOD MULCH	EASEMENT	EASEMENT LINE SLIDE 3227, SLIDE TOP-/2138.4'	он о типунктиция до на почит на также на типунктиция о на почит до то на почит до то на почит до то на почит д С	133.84 C2 133.84	88	LANDSCAPE PLAN	
1-AG - 21200 ASEMENT #4 REBA	3-IV 1-CK		5-AE 7-FG PLAN HAVE HARD	AE IV FG CA AE CA FG ST AT TING ISLAND	SHALL GROUND CH	2124	4-CL	STALL TREE RING SHALL M 649.26'	G AROUND BASE OF THE HAVE 3"-4" TRIPLE GRO	REE. DUND HARDWOOD MULCH 20' SEWER E SLIDE 1	EASEMENT	EASEMENT LINE SLIDE 3227, SLIDE TOP-/2138.4'	E 3705 22.90 SEWER 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	133.84 C2 133.84	88	LANDSCAPE PLAN REVISIONS DESCRIPTIONS DES	
1-AG - ROMAN ASEMENT #4 REBA	3-IV 1-CK		5-AE 7-FG PLAN HAVE HARD	AE IV FG CA AE CA FG ST AT TING ISLAND	SHALL GROUND CH	2124	4-CL	STALL TREE RING SHALL M 649.26'	G AROUND BASE OF THE HAVE 3"-4" TRIPLE GRO	REE. DUND HARDWOOD MULCH 20' SEWER E SLIDE 1	EASEMENT	EASEMENT LINE SLIDE 3227, SLIDE TOP-/2138.4'	он о типунктиция до на почит на также на типунктиция о на почит до то на почит до то на почит до то на почит д С	133.84 C3 133.84 SSMH	88	LANDSCAPE PLAN REVISIONS REVISIONS DESCRIPTIONS TO STATE BY APPLICATION DESCRIPTION DE	
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	3-IV 1-CK		5-AE 7-FG PLAN HAVE HARD	AE IV FG CA AE CA FG ST AT TING ISLAND	SHALL GROUND CH	2124	4-CL	STALL TREE RING SHALL M 649.26'	G AROUND BASE OF THE HAVE 3"-4" TRIPLE GRO	REE. DUND HARDWOOD MULCH 20' SEWER E SLIDE 1	EASEMENT	EASEMENT LINE SLIDE 3227, SLIDE TOP-/2138.4'	E 3705 22.90 SEWER 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	133.84 C3 133.84 SSMH	88		

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3. IN A WELL-DEFINED CHANNEL EXTEND THE APRON UP THE CHANNEL BANKS TO AN ELEVATION OF 6"

7. CONSTRUCT APRON AT ZERO GRADE. TOP OF RIP RAP SHALL BE LEVEL WITH THE RECEIVING CHANNEL OR

8. ALIGN APRON WITH RECEIVING CHANNEL OR STREAM. ASSURE APRON IS STRAIGHT THROUGHOUT ITS

PIPE OUTLET TO FLAT AREA NO WELL-DEFINED CHANNEL



FLARED END SECTIONS SHALL BE PREFABRICATED HDPE PLAN TO MATCH DISCHARGE

BLANKET

RIP RAP APRON

I. LA IS THE LENGTH OF THE RIP RAP APRON.

BANK, WHICHEVER IS LESS.

ANGULAR AND WELL-GRADED.

2. D = 1.5 TIMES THE MAXIMUM STONE DIAMETER BUT NOT LESS THAN 18"

ABOVE THE MAXIMUM TAILWATER DEPTH OR TO THE TOP OF THE

9. END WIDTH OF APRON TO BE EQUAL TO WIDTH OF RECEIVING CHANNEL.

5. COMPACT ANY REQUIRED FILL TO DENSITY OF SURROUNDING UNDISTURBED MATERIAL.

6. RIP RAP MAY BE FIELDSTONE OR ROUGH QUARRY STONE AND SHALL BE HARD,

4. A FILTER BLANKET OR FILTER FABRIC SHALL BE INSTALLED

BETWEEN THE RIP RAP AND SOIL FOUNDATION.

GENERAL NOTES:

NOT TO SCALE

BACKFILL MIN. COVER TO MIN. COVER TO RIGID PAVEMENT, H" FLEXIBLE PAVEMENT, H" SPRINGLINE . BACKFILL 4" FOR 12"-24" PIPE 6" FOR 30"-60" PIPE " BEDDING SUITABLE MIN. TRENCH WIDTH **FOUNDATION** (SEE TABLE)

MINIMUM RECOMMENDED COVER BASED ON

OF PIPE

VECHICLE	LOADING (CONDITIONS
SUF	RFACE LIVE	LOADING CONDITION
PIPE DIAM.	H-25	HEAVY CONSTRUCTION (75T AXLE LOAD) *
12" - 48"	12"	48"
54" - 60"	24"	60°

* VEHICLES IN EXCESS OF 75T MAY REQUIRE ADDITIONAL COVER

MINIMUM RECOMMENDED COVER BASED ON RAILWAY LOADING CONDITIONS PIPE DIAM. COOPER E-80** UP TO 24" 24" 30"-36" 42"-60" 48"

** COVER IS MEASURED FROM TOP OF PIPE TO BOTTOM OF RAILWAY TIE. *** E-80 COVER REQUIREMENTS, ARE ONLY APPLICABLE

TO ASTM F 2306 PIPE.

I. ALL PIPE SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH ASTM D2321, "STANDARD PRACTICE FOR UNDERGROUND INSTALLATION OF THERMOPLASTIC PIPE FOR SEWERS AND OTHER GRAVITY FLOW APPLICATIONS", LATEST ADDITION

2. MEASURES SHOULD BE TAKEN TO PREVENT MIGRATION OF NATIVE FINES INTO BACKFILL MATERIAL, WHEN 3. FOUNDATION: WHERE THE TRENCH BOTTOM IS UNSTABLE, THE CONTRACTOR SHALL EXCAVATE TO A DEPTH REQUIRED BY THE ENGINEER AND REPLACE WITH SUITABLE MATERIAL AS SPECIFIED BY THE ENGINEER. AS AN ALTERNATIVE AND AT THE DISCRETION OF THE DESIGN ENGINEER, THE TRENCH BOTTOM MAY BE STABILIZED

USING A GEOTEXTILE MATERIAL. 4. BEDDING: SUITABLE MATERIAL SHALL BE ASTM CLASS I, II OR III. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION FOR MATERIAL SPECIFICATION TO ENGINEER. UNLESS OTHERWISE NOTED BY THE ENGINEER, MINIMUM BEDDING THICKNESS SHALL BE 4" (100MM) FOR 4"-24" (100MM-600MM); 6" (150MM) FOR 30"-60"

(750MM-900MM). EQUIVALENT TO NCDOT CLASS II, TYPE I OF CLASS III 5. INITIAL BACKFILL: SUITABLE MATERIAL SHALL BE ASTM CLASS I, II OR III IN THE PIPE ZONE EXTENDING NOT LESS THAN 6" ABOVE CROWN OF PIPE. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION FOR MATERIAL SPECIFICATION TO ENGINEER. MATERIAL SHALL BE INSTALLED AS REQUIRED IN ASTM D2321, LATEST EDITION. EQUIVALENT TO NCDOT CLASS II, TYPE I OF CLASS III

6. MINIMUM COVER: MINIMUM COVER, H, IN NON-TRAFFIC APPLICATIONS (GRASS OR LANDSCAPE AREAS) IS 12" FROM THE TOP OF PIPE TO GROUND SURFACE. ADDITIONAL COVER MAY BE REQUIRED TO PREVENT FLOATION. FOR TRAFFIC APPLICATIONS, MINIMUM COVER, H, IS 12" UP TO 48" DIAMETER PIPE AND 24" OF COVER FOR 54"-60" DIAMETER PIPE, MEASURED FROM TOP OF PIPE TO BOTTOM OF FLEXIBLE PAVEMENT OR TO TOP OF RIGID

TYPICAL STORM PIPE BEDDING

36" 64" 42" 72" 48" 80" 54" 88" 60" 96"

RECOMMENDED MINIMUM

21"

23"

26"

28"

30"

34"

39"

48"

56"

NOT TO SCALE

TRENCH WIDTHS

DIAM. WIDTH

10"

12"

15"

18"

24"

30"

PIPE MIN. TRENCH

FILTER BLANKET

SECTION AA

SECTION AA

WATER 14'-4" x 7'-4" x 8'-2" MAX O.D. Oldcastle Precast* PIPE CULVERT HEADWALL LFUCG MODEL #: PC HVV-LFUCG-KY **PLAN VIEW** from more more many many access more more many **FRONT VIEW** 12' 13" 3" 15°Ø 16" 8.5' 9.75' 3.5" 3605 lbs. 18"Ø 5" 6.5" 24"Ø | 78" | 66" | 51" | 51" | 29" | 33" | 18" 5" 6" 4" 5468 lbs. SPECIFICATIONS: F'c=5,000 PSI @ 28 days, ITEMS ARE SUBJECT TO CHANGE WITHOUT NOTICE. For more information about our products **Oldcastle Precast** Lexington, KY

PRE CAST CONCRETE HEADWALL

NOT TO SCALE

PERMITTING SUBMITTAL

AT FULL SIZE, IF NOT ONE INCH SCALE ACCORDINGLY 1/29/18

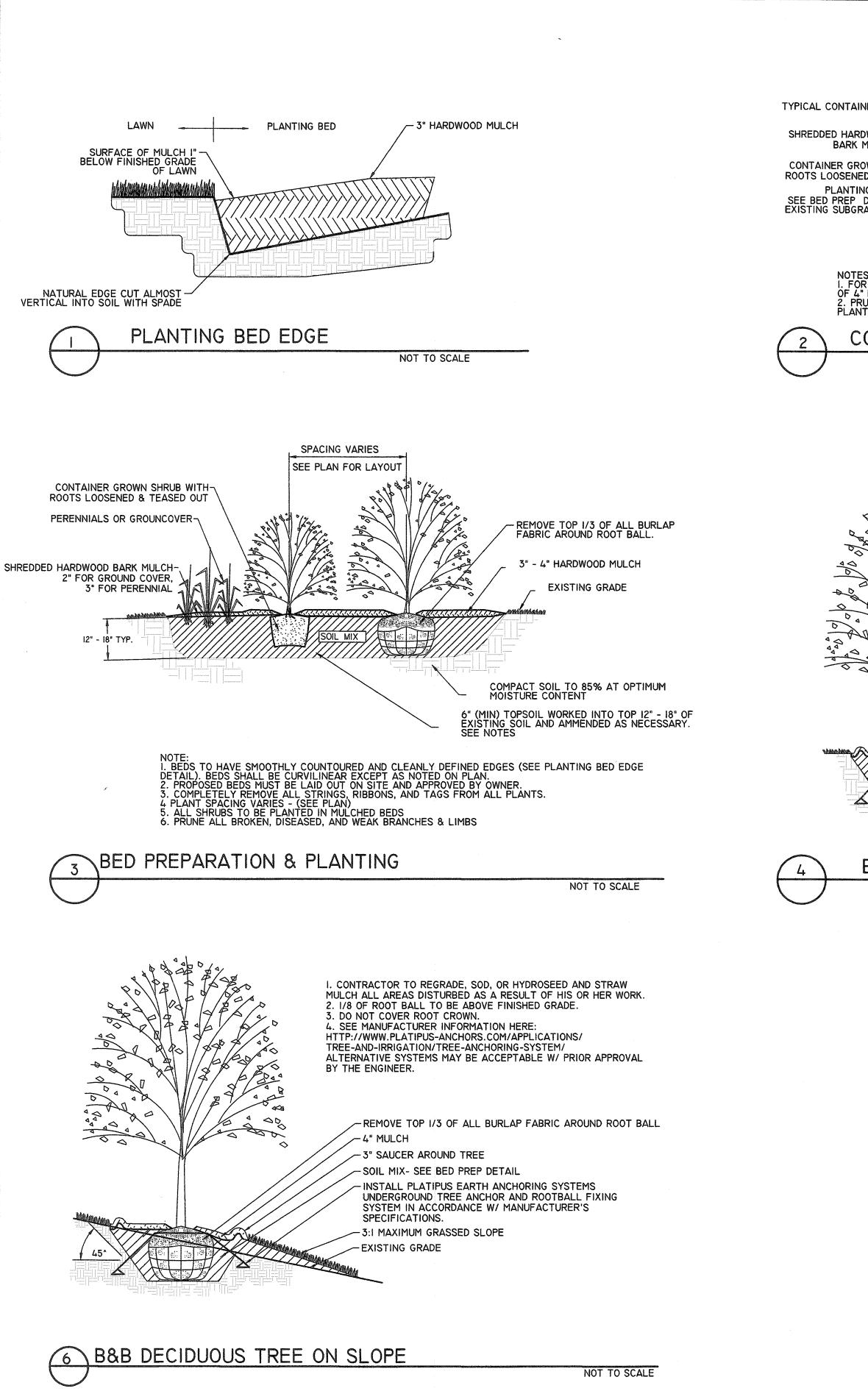
Know what's below.

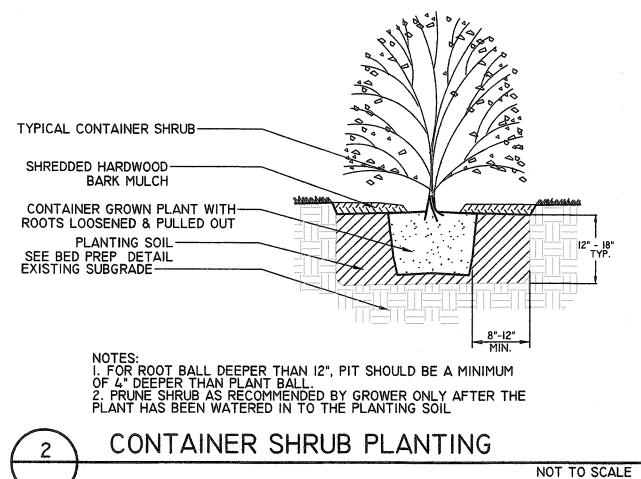
Call before you dig.

NC Firm License No. P-1649

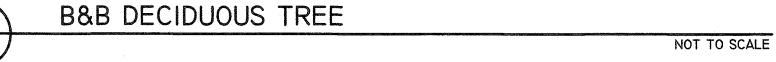
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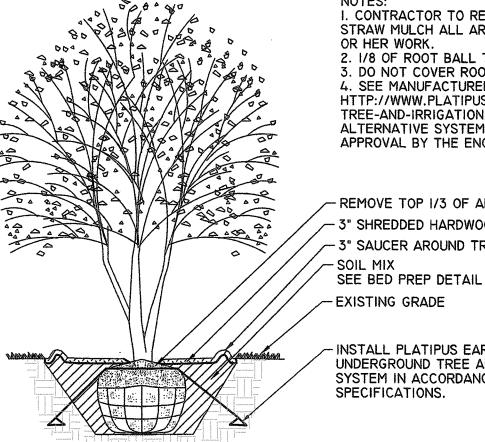
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I. CONTRACTOR TO REGRADE, SOD, OR HYDROSEED AND STRAW MULCH ALL AREAS DISTURBED AS A RESULT OF HIS OR HER WORK. 2. 1/8 OF ROOT BALL TO BE ABOVE FINISHED GRADE. 3. DO NOT COVER ROOT CROWN.
4. SEE MANUFACTURER INFORMATION HERE: HTTP://WWW.PLATIPUS-ANCHORS.COM/APPLICATIONS/ TREE-AND-IRRIGATION/TREE-ANCHORING-SYSTEM/ ALTERNATIVE SYSTEMS MAY BE ACCEPTABLE W/ PRIOR APPROVAL BY THE ENGINEER. - 3"-4" MULCH → 3" SAUCER AROUND TREE - REMOVE TOP 1/3 OF ALL BURLAP FABRIC AROUND ROOT BALL -SOIL MIX SEE BED PREP DETAIL - INSTALL PLATIPUS EARTH ANCHORING SYSTEMS UNDERGROUND TREE ANCHOR AND ROOTBALL FIXING SYSTEM IN ACCORDANCE W/ MANUFACTURER'S SPECIFICATIONS.





I. CONTRACTOR TO REGRADE, SOD, OR HYDROSEED AND STRAW MULCH ALL AREAS DISTURBED AS A RESULT OF HIS 2. 1/8 OF ROOT BALL TO BE ABOVE FINISHED GRADE.
3. DO NOT COVER ROOT CROWN.
4. SEE MANUFACTURER INFORMATION HERE FOR ANCHORING: HTTP://WWW.PLATIPUS-ANCHORS.COM/APPLICATIONS/ TREE-AND-IRRIGATION/TREE-ANCHORING-SYSTEM/ ALTERNATIVE SYSTEMS MAY BE ACCEPTABLE W/ PRIOR APPROVAL BY THE ENGINEER. REMOVE TOP 1/3 OF ALL BURLAP FABRIC AROUND ROOT BALL - 3" SHREDDED HARDWOOD MULCH - 3" SAUCER AROUND TREE

PERMITTING SUBMITTAL

- INSTALL PLATIPUS EARTH ANCHORING SYSTEMS UNDERGROUND TREE ANCHOR AND ROOTBALL FIXING SYSTEM IN ACCORDANCE W/ MANUFACTURER'S

5 B&B MULTI-STEM DECIDUOUS TREE

NOT TO SCALE

NC Firm License No. P-1649

AT FULL SIZE, IF NOT ONE INCH SCALE ACCORDINGLY

Know what's below.

1"=30"

Call before you dig.

DETAIL LANDSC/