

PROJECT NAME:  
**MANER  
 DENTIST  
 OFFICE**  
 1106 BLUE JAY STREET  
 KILL DEVIL HILLS, NC

REVISIONS:	DATE:
TOWN REVIEW	3 / 18 / 24
TOWN REVISIONS	5 / 7 / 24
TOWN REVISIONS	5 / 18 / 24

DRAWING NAME:  
**BUILDING  
 PLANS**

PRELIMINARY DRAWINGS  
 NOT FOR CONSTRUCTION:  
 FOR TOWN OF KILL DEVIL HILLS  
 ZONING REVIEW ONLY

DRAWN BY: CN

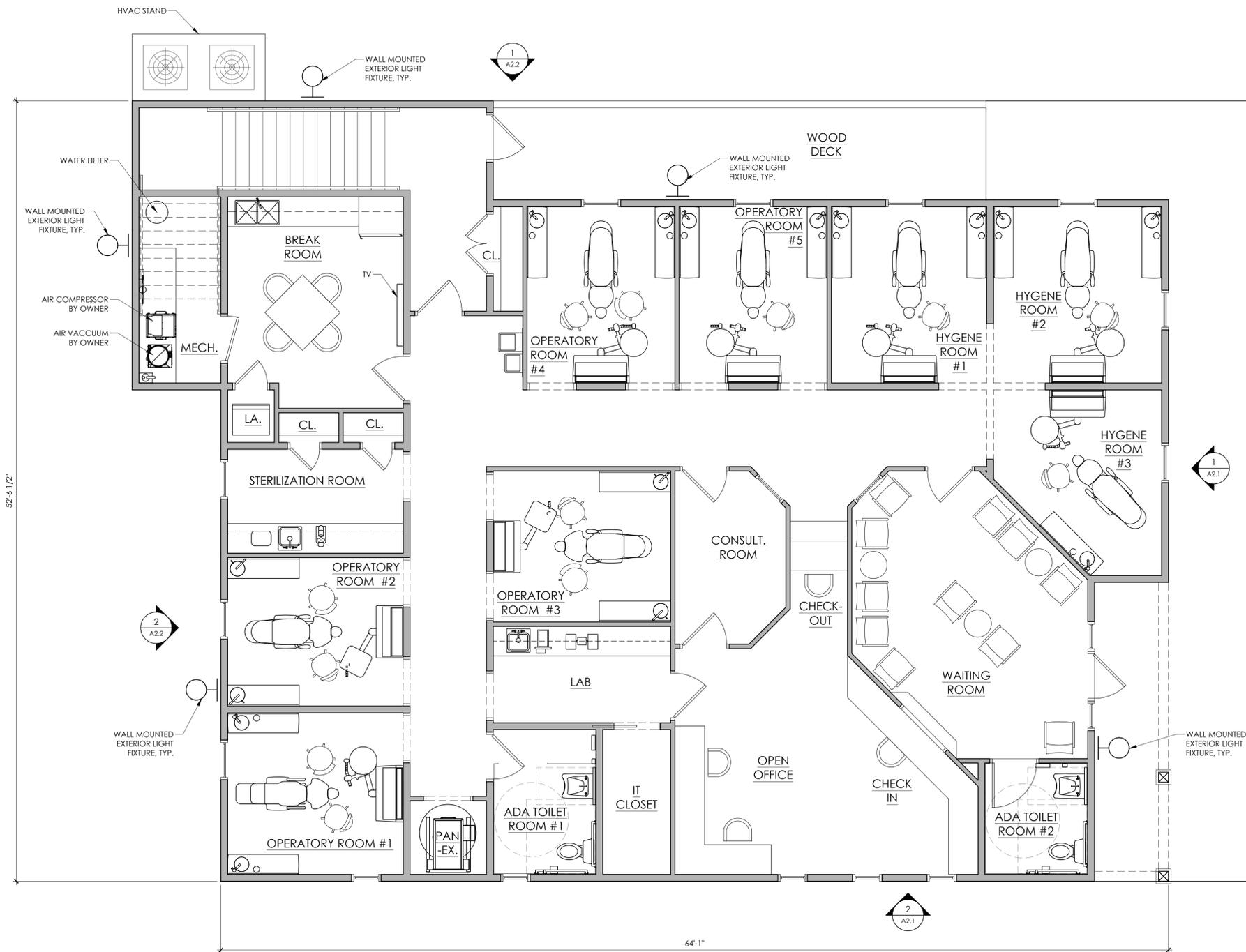
DATE: 5 / 18 / 24

SCALE: -

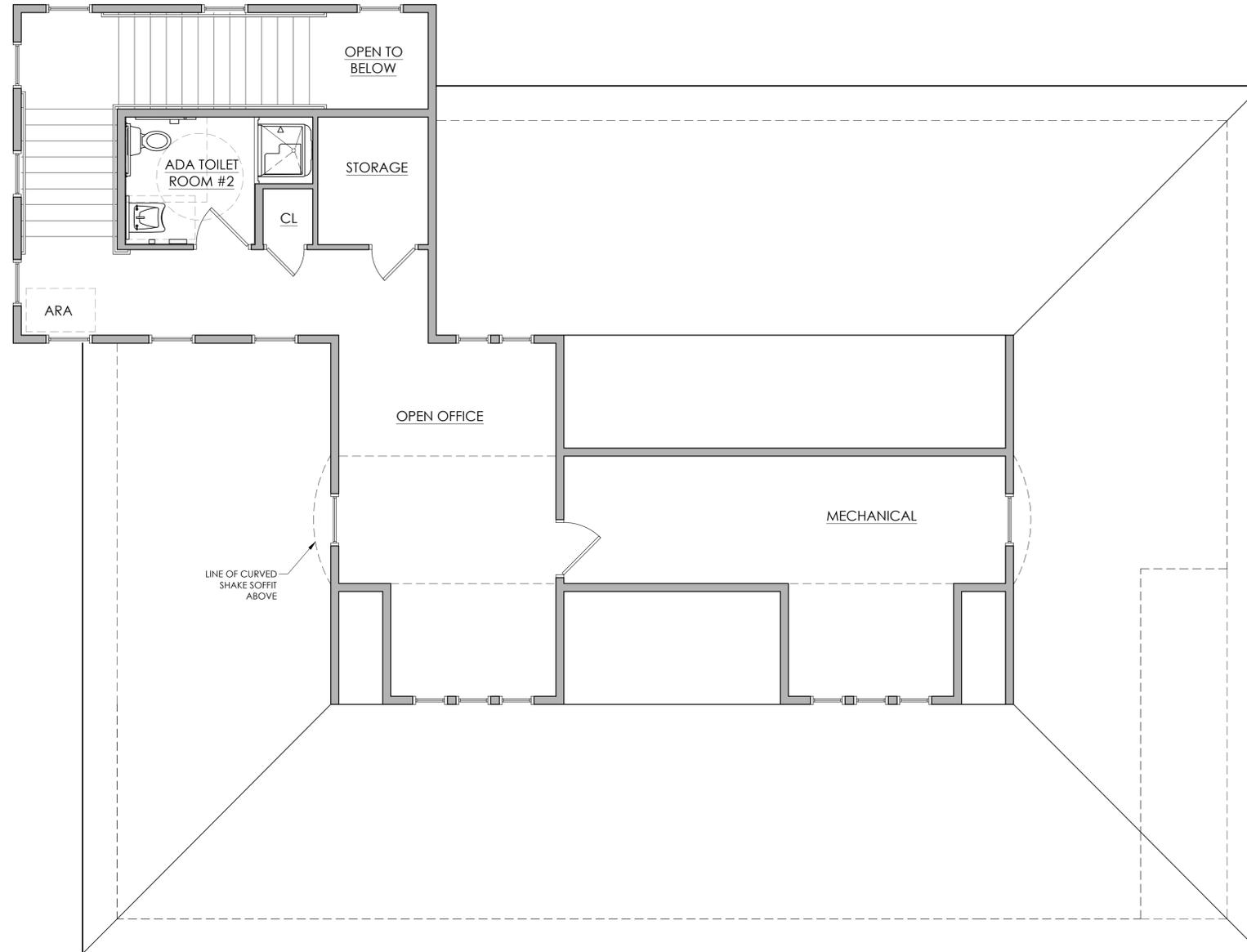
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SHEET:  
**A1.1**



**1** FIRST FLOOR PLAN- 3,079 CONDITIONED SQUARE FEET  
 SCALE: 1/4" = 1'-0"



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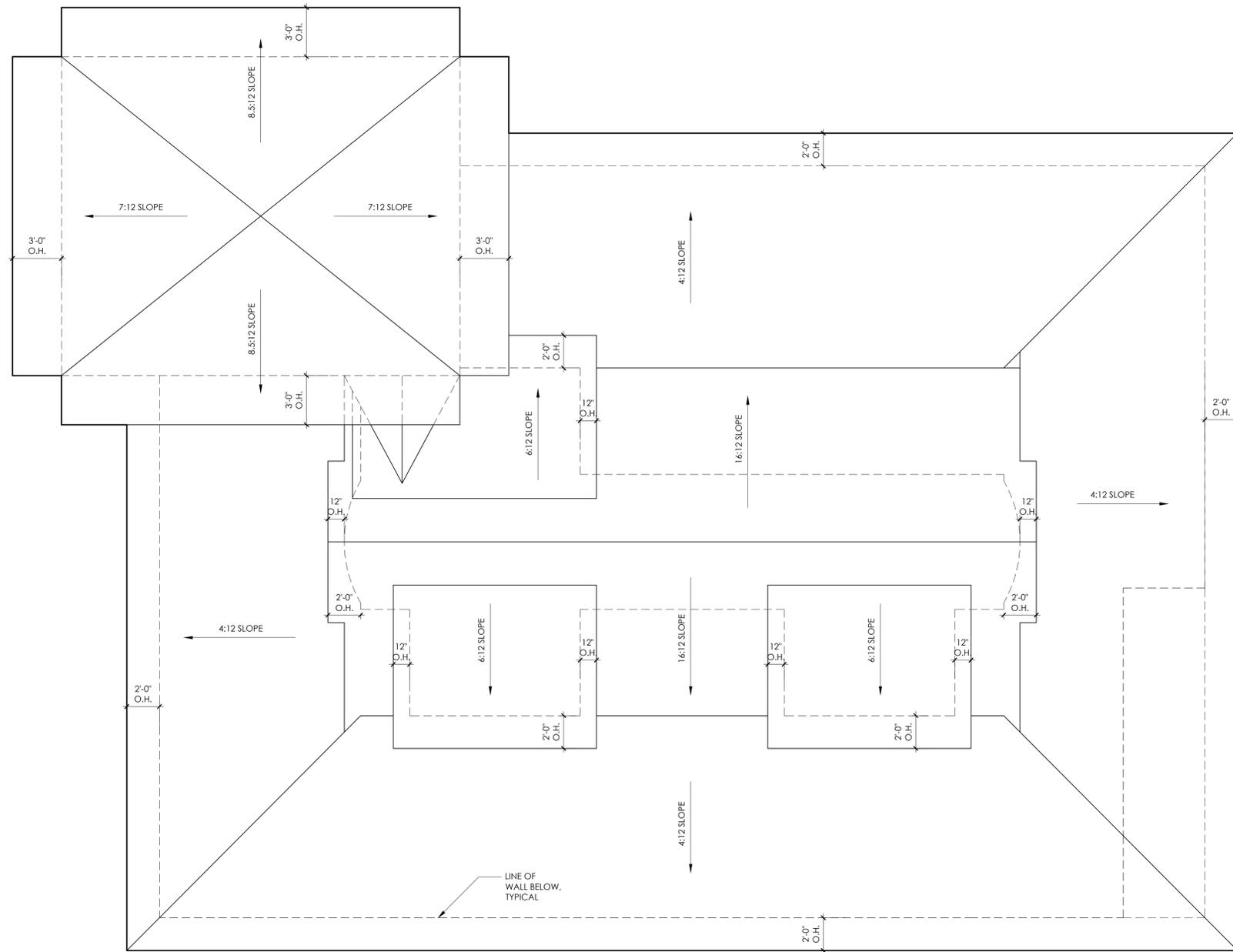
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SHEET:  
**A1.3**



PROJECT NAME:  
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DRAWING NAME:  
**EXTERIOR  
 ELEVATIONS**

PRELIMINARY DRAWINGS  
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DRAWN BY: CN

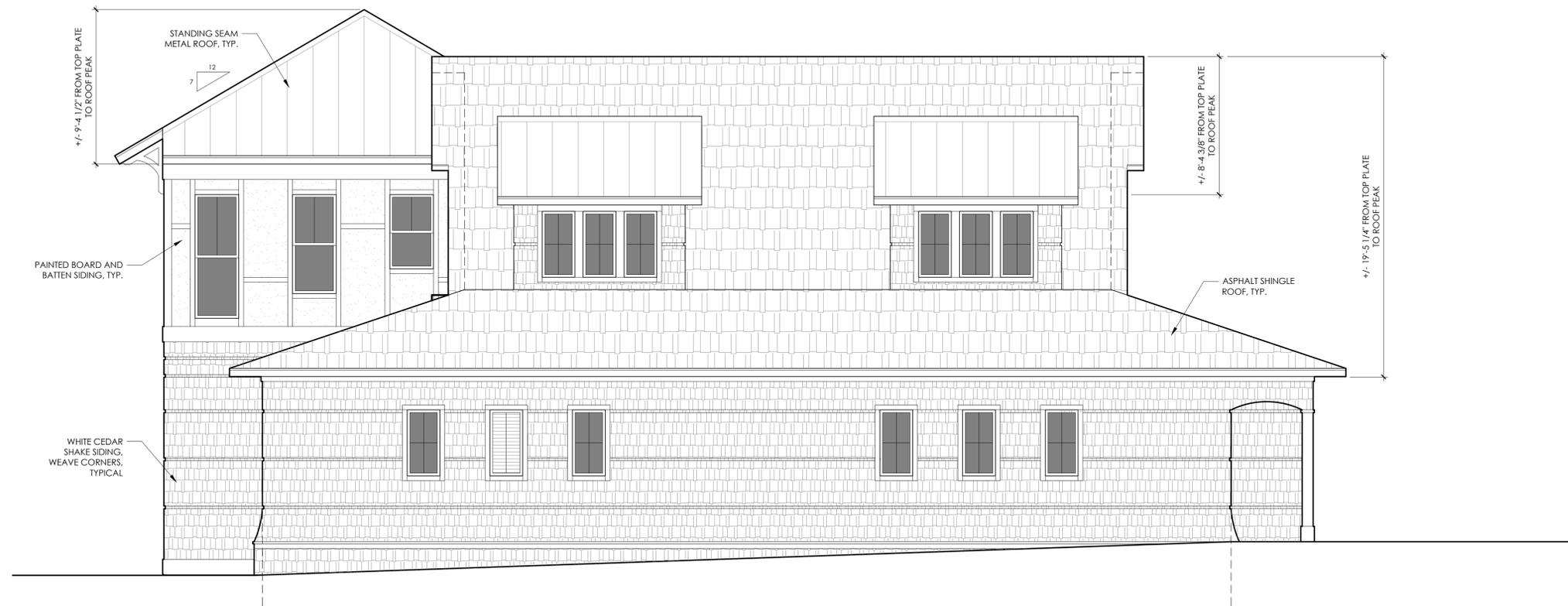
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SHEET:  
**A2.1**



1 EAST ELEVATION  
 SCALE: 1/4" = 1'-0"



2 NORTH ELEVATION  
 SCALE: 1/4" = 1'-0"

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DRAWING NAME:  
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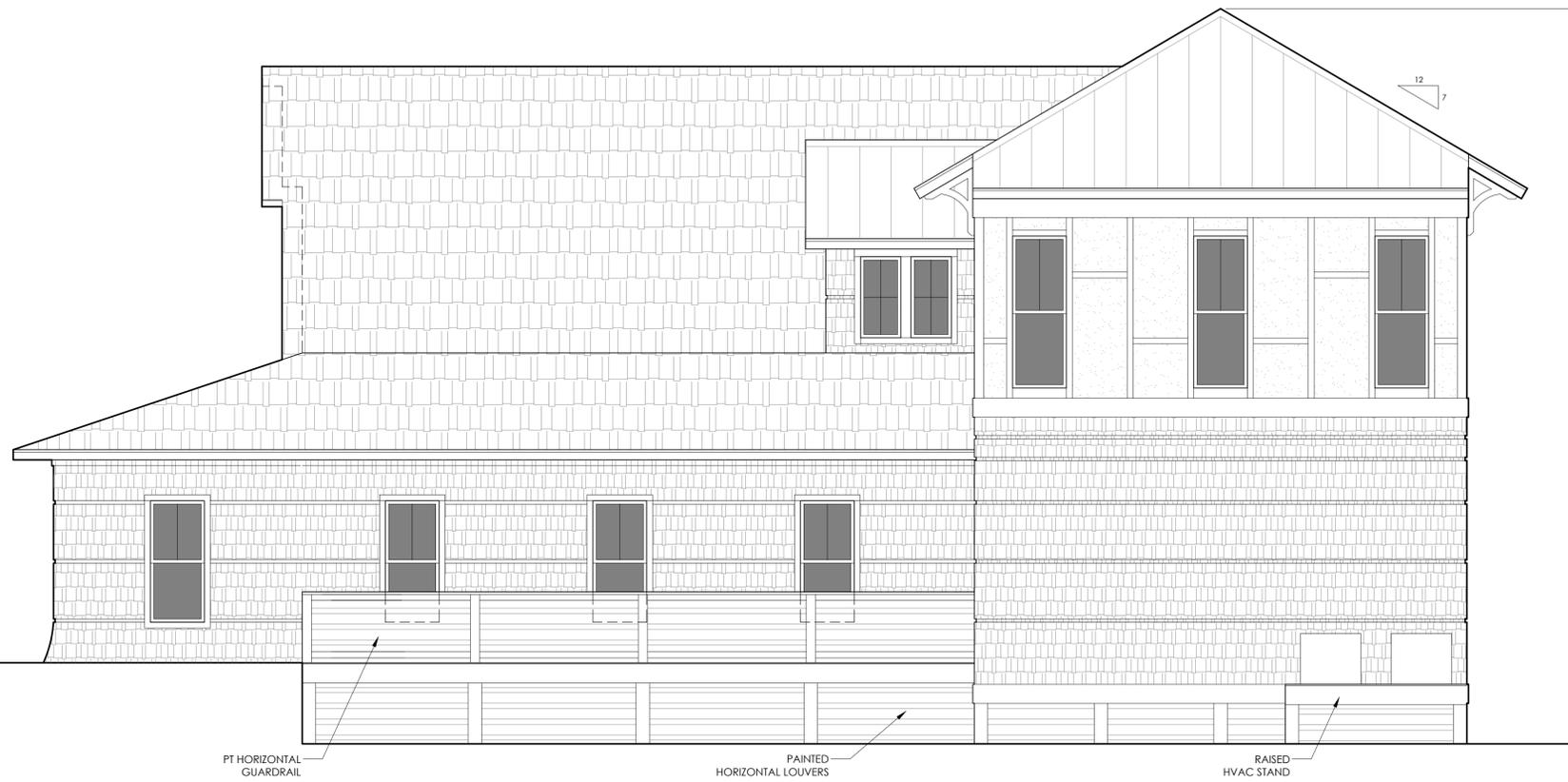
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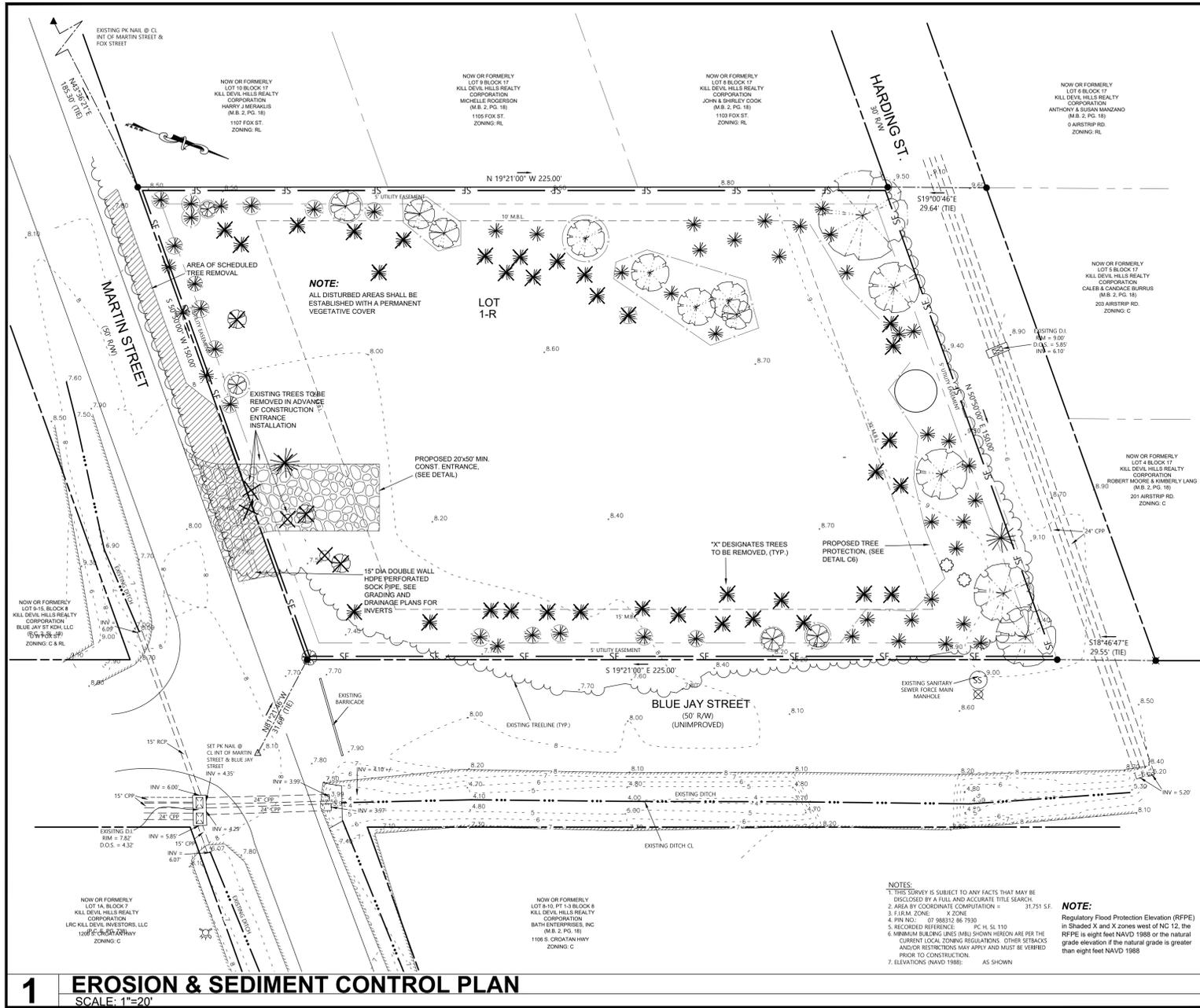
SHEET:  
**A2.2**



1 WEST ELEVATION  
 SCALE: 1/4" = 1'-0"



2 SOUTH ELEVATION  
 SCALE: 1/4" = 1'-0"



**OBTAIN ALL NECESSARY FEDERAL, STATE OR TOWN OF KILL DEVIL HILLS PERMITS IN ADVANCE OF LAND DISTURBING ACTIVITIES.**

**EROSION CONTROL SEQUENCE**

CONSTRUCTION ACTIVITY	SCHEDULE CONSIDERATION
CONSTRUCTION ACCESS- CONSTRUCTION ENTRANCE, CONSTRUCTION TOILETS, EQUIPMENT PARKING AREAS	FIRST LAND-DISTURBING ACTIVITY-STABILIZE BARE AREAS IMMEDIATELY WITH GRAVEL & TEMPORARY VEGETATION AS CONSTRUCTION TAKES PLACE
SEDIMENT TRAPS & BARRIERS BASIN TRAPS, SEDIMENT FENCES, & OUTLET PROTECTION	INSTALL PRINCIPAL BASINS AFTER CONSTRUCTION SITE IS ACCESSED. INSTALL ADDITIONAL TRAPS AND BARRIERS AS NEEDED DURING GRADING.
RUNOFF CONTROL- DIVERSIONS, PERIMETER DIKES, WATER BARS, AND OUTLET PROTECTION	INSTALL KEY PRACTICES AFTER PRINCIPAL SEDIMENTS TRAPS AND BEFORE LAND GRADING. INSTALL ADDITIONAL RUNOFF-CONTROL CONVEYANCE MEASURES DURING GRADING.
RUNOFF CONVEYANCE SYSTEM- STABILIZE STREAMBANKS, STORM DRAINS, CHANNELS, INLET & OUTLET PROTECTION, SLOPE DRAINS	WHERE NECESSARY, STABILIZE STREAMBANKS AS EARLY AS POSSIBLE. INSTALL PRINCIPAL RUNOFF CONVEYANCE SYSTEM WITH RUNOFF-CONTROL MEASURES. INSTALL REMAINDER OF SYSTEM AFTER GRADING.
LAND CLEARING & GRADING- SITE PREPARATION, CUTTING, FILLING & GRADING, SEDIMENT CONTROL BARRIERS, DIVERSIONS, DRAINS, SURFACE ROUGHENING	BEGIN MAJOR CLEARING AND GRADING AFTER PRINCIPAL & KEY RUNOFF-CONTROL MEASURES ARE INSTALLED. CLEAR BORROW & DISPOSAL AREAS AS NEEDED. INSTALL ADDITIONAL CONTROL MEASURES AS GRADING PROGRESSES. MARK TREES & BUFFER AREAS FOR PRESERVATION.
SURFACE STABILIZATION- TEMPORARY & PERMANENT SEEDING, MULCHING, SODDING, RIPRAP	APPLY TEMPORARY OR PERMANENT STABILIZATION MEASURES IMMEDIATELY ON ALL DISTURBED AREAS WHERE WORK IS DELAYED OR COMPLETE.
BUILDING CONSTRUCTION- BUILDINGS, UTILITIES, PAVING	INSTALL NECESSARY EROSION & SEDIMENTATION CONTROL PRACTICES AS WORK TAKES PLACE.
LANDSCAPING & FINAL STABILIZATION- TOPDRESSING, TREES & SHRUBS, PERMANENT SEEDING, MULCHING, SODDING, RIPRAP	STABILIZE ALL OPEN AREAS, INCLUDING BORROW & SPOIL AREAS. REMOVE & STABILIZE ALL TEMPORARY CONTROL MEASURES.

**TEMPORARY SEEDING SPECIFICATIONS**  
 SEEDING DATES- AUGUST 15 TO DECEMBER 30  
 SEEDING MIXTURE  
 SPECIES RATE (LB/ACRE)  
 WINTER RYE (GRAN) 120 (ANNUAL RYEGRASS SHALL NOT BE USED)  
 ANNUAL LESPEDEZA 50  
 \*OMIT ANNUAL LESPEDEZA WHEN DURATION OF TEMPORARY COVER IS NOT TO EXCEED BEYOND JUNE

**SOIL AMENDMENTS-**  
 FOLLOW RECOMMENDATIONS OF SOIL TESTS OR APPLY 2,000 LB/ACRE GROUND AGRICULTURAL LIMESTONE AND 1,000 LB/ACRE 10-10-10 FERTILIZER.

**MULCH-**  
 APPLY 4,000-LB/ACRE STRAW, ANCHOR STRAW BY TACKING WITH ASPHALT, NETTING, OR A MULCH-ANCHORING TOOL. A DISK WITH BLADES SET NEARLY STRAIGHT CAN BE USED AS A MULCH-ANCHORING TOOL.

**PERMANENT SEEDING**  
 THE PURPOSE OF PERMANENT SEEDING IS TO REDUCE EROSION AND DECREASE SEDIMENT YIELD FROM DISTURBED AREAS. AND TO PERMANENTLY STABILIZE SUCH AREAS IN A MANNER THAT IS ECONOMICALLY ADAPTS TO SITE CONDITIONS, AND ALLOWS SELECTION OF THE MOST APPROPRIATE PLANT MATERIALS. THESE AREAS MUST BE SEED OR PLANTED WITHIN 15 WORKING DAYS OR 90 CALENDAR DAYS AFTER FINAL GRADE IS REACHED, UNLESS TEMPORARY STABILIZATION IS APPLIED.

**SEEDING RECOMMENDATIONS FOR FALL**  
 SEEDING DATES- APRIL 15 TO AUGUST 15  
 SEEDING MIXTURE  
 SPECIES RATE (LB/ACRE)  
 GERMAN MILLET 40  
 SOIL AMENDMENTS- FOLLOW RECOMMENDATIONS OF SOIL TESTS OR APPLY 2,000 LB/ACRE GROUND AGRICULTURAL LIMESTONE AND 750 LB/ACRE 10-10-10 FERTILIZER.

**SEEDING RECOMMENDATIONS FOR SUMMER**  
 SEEDING DATES- APRIL TO JULY  
 SEEDING MIXTURE  
 SPECIES RATE (LB/ACRE)  
 COMMON BERMUDAGRASS 10/1,000 SF (SPRIGS)  
 1-2 LB/1,000 SF (SEED)

**SEEDING NOTES-**  
 1. SPRIG OR SOIL MOISTURE IS ESSENTIAL DURING INITIAL ESTABLISHMENT.  
 2. SOIL SHOULD BE KEPT MOIST FOR 2-3 WEEKS, BUT CAN BE PLANTED EARLIER OR LATER THAN SPRIGS.

**SOIL AMENDMENTS-**  
 APPLY LIME AND FERTILIZER ACCORDING TO SOIL TESTS OR APPLY 3,000 LB/ACRE GROUND AGRICULTURAL LIMESTONE AND 500 LB/ACRE 10-10-10 FERTILIZER OR 50 LB/ACRE NITROGEN FROM UREA-TYPE SLOW-RELEASE FERTILIZER. ADD 25-50 LB/ACRE NITROGEN AT 2-3 WEEK INTERVALS THROUGH MIDSUMMER.

**MAINTENANCE-**  
 REFERTILIZE IF GROWTH IS NOT FULLY ADEQUATE. RESEED, FERTILIZE AND MULCH IMMEDIATELY FOLLOWING EROSION OR OTHER DAMAGE.

**SEEDING RECOMMENDATIONS FOR FALL**  
 SEEDING DATES- AUGUST 15 TO DECEMBER 30  
 SEEDING MIXTURE  
 SPECIES RATE (LB/ACRE)  
 WINTER RYE (GRAN) 120  
 ANNUAL LESPEDEZA 50  
 FOLLOW RECOMMENDATIONS OF SOIL TESTS OR APPLY 2,000 LB/ACRE GROUND AGRICULTURAL LIMESTONE AND 1,000 LB/ACRE 10-10-10 FERTILIZER.

**MULCH-**  
 APPLY 4,000-LB/ACRE STRAW, ANCHOR STRAW BY TACKING WITH ASPHALT, NETTING, OR A MULCH-ANCHORING TOOL. A DISK WITH BLADES SET NEARLY STRAIGHT CAN BE USED AS A MULCH-ANCHORING TOOL.

**PERMANENT SEEDING**  
 THE PURPOSE OF PERMANENT SEEDING IS TO PREVENT EROSION AND DAMAGE FROM SEDIMENT AND RUNOFF BY STABILIZING THE SOIL SURFACE WITH PERMANENT VEGETATION FOR THE PURPOSE OF:

- THE PROVISION OF IMMEDIATE VEGETATIVE COVER IN CRITICAL AREAS
- TO STABILIZE DISTURBED AREAS WITH A SUITABLE PLANT MATERIAL THAT CANNOT BE ESTABLISHED BY SEED
- TO STABILIZE DRAINAGEWAYS & CHANNELS AND OTHER AREAS OF CONCENTRATED FLOW WHERE FLOW VELOCITIES WILL NOT EXCEED THAT SPECIFIED GRASS LIVING.

**SOODING SPECIFICATIONS**  
 SOO QUALITY  
 -SOO SHOULD BE MACHINE CUT AT A UNIFORM DEPTH OF 1/2-2 INCHES  
 -SOO SHOULD NOT HAVE BEEN CUT IN EXCESSIVELY WET OR DRY WEATHER.  
 -SECTIONS OF SOO SHOULD BE STANDARD SIZE AS DETERMINED BY THE SUPPLIER.  
 -UNIFORM AND UNIFORM  
 -SECTIONS OF SOO SHOULD BE STRONG ENOUGH TO SUPPORT THEIR OWN WEIGHT AND RETAIN THEIR SIZE AND SHAPE WHEN LIFTED BY ONE END.  
 -HARVEST, DELIVERY, AND INSTALLATION OF SOO SHOULD TAKE PLACE WITHIN A PERIOD OF 36 HOURS.

**SOIL AMENDMENTS-**  
 APPLY LIME AND FERTILIZER ACCORDING TO SOIL TESTS OR APPLY 2 TONS/ACRE OF PULVERIZED AGRICULTURAL LIMESTONE AND 1,000 LB/ACRE 10-10-10 FERTILIZER IN THE FALL OR 5-10-10 IN SPRING.

**PRIOR TO LAYING SOO,** CLEAR THE SOIL SURFACE OF TRASH, DEBRIS, ROOTS, BRANCHES, STONES, AND CLODS LARGER THAN 2 INCHES IN DIAMETER. FILL OR LEVEL LOW SPOTS IN ORDER TO AVOID STANDING WATER. RAKE OR HARROW THE SITE TO ACHIEVE A SMOOTH AND LEVEL FINAL GRADE. COMPLETE SOIL PREPARATION BY ROLLING OR CUTSLAPPING TO FIRM SOIL.

**EROSION CONTROL SEQUENCE**

CONSTRUCTION ACTIVITY	SCHEDULE CONSIDERATION
CONSTRUCTION ACCESS- CONSTRUCTION ENTRANCE, CONSTRUCTION TOILETS, EQUIPMENT PARKING AREAS	FIRST LAND-DISTURBING ACTIVITY-STABILIZE BARE AREAS IMMEDIATELY WITH GRAVEL & TEMPORARY VEGETATION AS CONSTRUCTION TAKES PLACE
SEDIMENT TRAPS & BARRIERS BASIN TRAPS, SEDIMENT FENCES, & OUTLET PROTECTION	INSTALL PRINCIPAL BASINS AFTER CONSTRUCTION SITE IS ACCESSED. INSTALL ADDITIONAL TRAPS AND BARRIERS AS NEEDED DURING GRADING.
RUNOFF CONTROL- DIVERSIONS, PERIMETER DIKES, WATER BARS, AND OUTLET PROTECTION	INSTALL KEY PRACTICES AFTER PRINCIPAL SEDIMENTS TRAPS AND BEFORE LAND GRADING. INSTALL ADDITIONAL RUNOFF-CONTROL CONVEYANCE MEASURES DURING GRADING.
RUNOFF CONVEYANCE SYSTEM- STABILIZE STREAMBANKS, STORM DRAINS, CHANNELS, INLET & OUTLET PROTECTION, SLOPE DRAINS	WHERE NECESSARY, STABILIZE STREAMBANKS AS EARLY AS POSSIBLE. INSTALL PRINCIPAL RUNOFF CONVEYANCE SYSTEM WITH RUNOFF-CONTROL MEASURES. INSTALL REMAINDER OF SYSTEM AFTER GRADING.
LAND CLEARING & GRADING- SITE PREPARATION, CUTTING, FILLING & GRADING, SEDIMENT CONTROL BARRIERS, DIVERSIONS, DRAINS, SURFACE ROUGHENING	BEGIN MAJOR CLEARING AND GRADING AFTER PRINCIPAL & KEY RUNOFF-CONTROL MEASURES ARE INSTALLED. CLEAR BORROW & DISPOSAL AREAS AS NEEDED. INSTALL ADDITIONAL CONTROL MEASURES AS GRADING PROGRESSES. MARK TREES & BUFFER AREAS FOR PRESERVATION.
SURFACE STABILIZATION- TEMPORARY & PERMANENT SEEDING, MULCHING, SODDING, RIPRAP	APPLY TEMPORARY OR PERMANENT STABILIZATION MEASURES IMMEDIATELY ON ALL DISTURBED AREAS WHERE WORK IS DELAYED OR COMPLETE.
BUILDING CONSTRUCTION- BUILDINGS, UTILITIES, PAVING	INSTALL NECESSARY EROSION & SEDIMENTATION CONTROL PRACTICES AS WORK TAKES PLACE.
LANDSCAPING & FINAL STABILIZATION- TOPDRESSING, TREES & SHRUBS, PERMANENT SEEDING, MULCHING, SODDING, RIPRAP	STABILIZE ALL OPEN AREAS, INCLUDING BORROW & SPOIL AREAS. REMOVE & STABILIZE ALL TEMPORARY CONTROL MEASURES.

**LAND GRADING CONSTRUCTION SPECIFICATIONS**

- CONSTRUCT & MAINTAIN ALL EROSION & SEDIMENTATION CONTROL PRACTICES & MEASURES IN ACCORDANCE WITH THE APPROVED SEDIMENTATION CONTROL PLAN AND CONSTRUCTION SCHEDULE.
- REMOVE GOOD TOPSOIL FROM AREAS TO BE GRADED AND FILLED, AND PRESERVE IT FOR USE IN FINISHING THE GRADING OF ALL CRITICAL AREAS.
- SCARIFY AREAS TO BE TOPDRESSED TO A MINIMUM DEPTH OF 2 INCHES BEFORE PLACING TOPSOIL.
- CLEAR & GRUB AREAS TO BE FILLED TO REMOVE TREES, VEGETATION, ROOTS, OR OTHER OBJECTIONABLE MATERIAL THAT WOULD AFFECT THE PLANNED STABILITY OF FILL.
- ENSURE THAT FILL MATERIAL IS FREE OF BRUSH, RUBBISH, ROCKS, LOGS, STUMPS, BUILDING DEBRIS, AND OTHER MATERIALS INAPPROPRIATE FOR CONSTRUCTING STABLE FILLS.
- PLACE ALL FILL IN LAYERS NOT TO EXCEED 9 INCHES IN THICKNESS, AND COMPACT THE LAYERS AS REQUIRED TO REDUCE EROSION, SLIPPAGE, SETTLEMENT, OR OTHER RELATED PROBLEMS.
- DO NOT INCORPORATE FROZEN MATERIAL OR SOFT, MUCKY, OR HIGHLY COMPRESSIBLE MATERIALS INTO FILL SLOPES.
- DO NOT PLACE FILL ON A FROZEN FUNDAMENT, DUE TO POSSIBLE SUBSIDENCE AND SLIPPAGE.
- KEEP DIVERSIONS AND OTHER WATER CONVEYANCE MEASURES FREE OF SEDIMENT DURING ALL PHASES OF DEVELOPMENT.
- HANDLE SEEPS OR SPRINGS ENCOUNTERED DURING CONSTRUCTION IN ACCORDANCE WITH APPROVED METHODS.
- PROVIDE A GROUND COVER (TEMPORARY OR PERMANENT) ON EXPOSED SLOPES WITHIN 7 CALENDAR DAYS, FOLLOWING COMPLETION OF ANY PHASE OF GRADING, AND A PERMANENT GROUND COVER FOR ALL DISTURBED AREAS WITHIN 15 WORKING DAYS OR 90 CALENDAR DAYS (WHICHEVER IS SHORTER) FOLLOWING COMPLETION OF CONSTRUCTION OR DEVELOPMENT.
- PROVIDE ADEQUATE PROTECTION FROM EROSION FOR ALL TOPSOIL STOCKPILES, BORROW AREAS, AND SPOIL AREAS.

**MAINTENANCE**  
 PERIODICALLY CHECK ALL GRAZED AREAS & THE SUPPORTING EROSION & SEDIMENTATION CONTROL PRACTICES, AT A MINIMUM OF ONCE A WEEK AND WITHIN 24 HOURS AFTER ANY STORM EVENT GREATER THAN HALF AN INCH. PROMPTLY REMOVE ALL SEDIMENT FROM DIVERSIONS AND OTHER WATER DISPOSAL PRACTICES. IF WASHOUTS OR BREAKS OCCUR, REPAIR THEM IMMEDIATELY. PROMPT MAINTENANCE OF SMALL ERODED AREAS BEFORE THEY BECOME SIGNIFICANT GULCHES IS AN ESSENTIAL PART OF AN EFFECTIVE EROSION CONTROL PLAN. IMMEDIATE CORRECTIVE ACTION MUST BE TAKEN FOR ANY EROSION FAILURE. IF SEDIMENT HAS BEEN OBSERVED TO HAVE BEEN DEPOSITED IN A STREAM OR WETLAND, THE DIVISION OF WATER QUALITY MUST BE NOTIFIED WITHIN 24 HOURS AND A WRITTEN NOTICE PROVIDED WITHIN 5 DAYS.

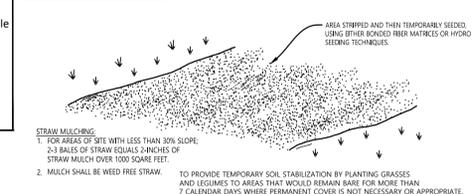
**GROUND STABILIZATION AND MATERIALS HANDLING PRACTICES FOR COMPLIANCE WITH THE NCG01 CONSTRUCTION GENERAL PERMIT**

Implementing the details and specifications on this plan sheet will result in the construction activity being considered compliant with the Ground Stabilization and Materials Handling sections of the NCG01 Construction General Permit (Sections E and F, respectively). The permittee shall comply with the Erosion and Sediment Control plan approved by the delegated authority having jurisdiction. All details and specifications shown on this sheet may not apply depending on site conditions and the delegated authority having jurisdiction.

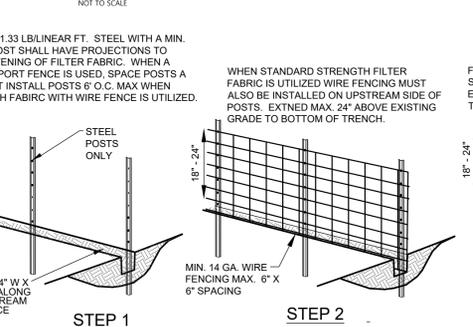
**SECTION E: GROUND STABILIZATION**

Site Area Description	Required Ground Stabilization Timeframes	
	Stabilize within this many calendar days after ceasing land disturbance	Timeframe variations
(a) Perimeter dikes, swales, ditches, and perimeter slopes	7	None
(b) High Quality Water (HQW) Zones	7	None
(c) Slopes steeper than 3:1	7	If slopes are 10' or less in length and are not steeper than 2:1, 14 days are allowed -7 days for slopes greater than 50' in length and with slopes steeper than 4:1 -7 days for perimeter dikes, swales, ditches, perimeter slopes and HQW Zones
(d) Slopes 3:1 to 4:1	14	-10 days for Falls Lake Watershed
(e) Areas with slopes flatter than 4:1	14	-7 days for perimeter dikes, swales, ditches, perimeter slopes and HQW Zones -10 days for Falls Lake Watershed unless there is zero slope

**Note:** After the permanent cessation of construction activities, any areas with temporary ground stabilization shall be converted to permanent ground stabilization as soon as practicable but in no case longer than 90 calendar days after the last land disturbing activity. Temporary ground stabilization shall be maintained in a manner to render the surface stable against accelerated erosion until permanent ground stabilization is achieved.



**LAND DISTURBANCE & STABILIZATION DETAIL**



**PORTABLE TOILETS**

- Install portable toilets on level ground, at least 50 feet away from storm drains, streams or wetlands unless there is no alternative reasonably available. If 50 foot offset is not attainable, provide relocation of portable toilet behind silt fence or place on a gravel pad and surround with sand bags.
- Provide staking or anchoring of portable toilets during periods of high winds or in high foot traffic areas.
- Monitor portable toilets for leaking and properly dispose of any leaked material. Utilize a licensed sanitary waste hauler to remove leaking portable toilets and replace with properly operating unit.

**NOTES:**  
 1. THIS SURVEY IS SUBJECT TO ANY FACTS THAT MAY BE DISCLOSED BY A FULL AND ACCURATE TITLE SEARCH.  
 2. AREA IS COORDINATE CONVERSION - 31,731.51 F.T.M. ZONE - X ZONE  
 3. RECORDED REFERENCE: NC PL 110  
 4. MARIAN BUILDING LINES (MBL) SHOW HEDION ARE PER THE CURRENT LOCAL ZONING REGULATIONS. OTHER STRIKES AND/OR RESTRICTIONS MAY APPLY AND MUST BE VERIFIED PRIOR TO CONSTRUCTION.  
 5. ELEVATIONS (NAVD 1988): AS SHOWN

**NOTE:**  
 Regulatory Flood Protection Elevation (RFPE) in Shaded X and X zones west of NC 12, the RFPE is eight feet NAVD 1988 or the natural grade elevation if the natural grade is greater than eight feet NAVD 1988

**1 EROSION & SEDIMENT CONTROL PLAN**  
 SCALE: 1"=20'

**LINETYPE:**

---	EX. SOIL ROAD
---	BUILDING SETBACK LINE
---	CONTOUR (INDEX)
---	EASEMENT
---	PROPERTY LINE (ADJOINING)
---	RIGHT-OF-WAY (CURRENT)
---	BOUNDARY LINE
---	EX. SWALE FLOW LINE
---	EX. TREETRINE
---	EX. SWALE TOP OF BANK
---	EX. OVERHEAD POWER LINE
---	PRO TREE PROTECTION
---	PRO SILT FENCE

**LEGEND**

SYMBOL	DESCRIPTION
○	EX. PIPE
○	EX. REBAR
○	CALCULATED POINT
□	EX. CONC. MON.
□	CONC. MON. SET
△	EX. P/K NAIL
△	P/K NAIL SET
○	WATER METER
○	PHONE PEDESTAL
○	CATV
○	UTILITY POLE
○	GUY WIRE
○	FIRE HYDRANT
○	ELECT. TRANS.
○	EX. SPOT LEV.

**ABBREVIATIONS**

APPROX.	DESCRIPTION	MON.	DESCRIPTION
AVG	APPROXIMATELY	N	MONUMENT
BLDG	AVERAGE	N	NORTH
BRG	BUILDING	NO	NUMBER
BRG	BEARING	NTS	NOT TO SCALE
CATV	CABLE TV	ℙ	PROPERTY LINE
℄	CENTERLINE	PP	POWER POLE
CONC	CONCRETE	RD	ROAD
CONST	CONSTRUCTION	REQD	REQUIRED
E	EAST, ELECTRICAL	R/W	RIGHT-OF-WAY
EA	EACH	SF	SQUARE FEET/FOOT
EL	ELEVATION	ST	STREET
ELEC	ELECTRICAL	T	TELEPHONE, TANGENT, TON
EOP	EDGE OF PAVEMENT	TEMP	TEMPORARY
EXIST	EXISTING	TYP	TYPICAL
FH	FIRE HYDRANT	UG	UNDERGROUND
FT	FEET/FOOT	VERT	VERTICAL
HORIZ	HORIZONTAL	WM	WATER METER
HT	HEIGHT	W/O	WITHOUT
LF	LINEAL FOOT/FEET	&	AND
MIN	MINIMUM		
MISC	MISCELLANEOUS		

**2 LEGEND, LINETYPES, & ABBREVIATIONS**  
 SCALE: NONE

DRAWING SCALE:	1"=20'	
PROJECT NO.:	P1039	
DRAWING NO.:	P103900B1-C3D	
DATE:	5-14-14	
DESIGNED:	DMR	
CHECKED:	DMR	
NUM.	REVISION	DATE

**3 SEDIMENT & EROSION CONTROL NOTES & DETAIL**  
 SCALE: NONE

**PROJECT DEVELOPMENT SUMMARY:**

**NOTE:**  
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**NOTE:**  
 THE CONTRACTOR SHALL INDICATE TO THE ENGINEER THE SOURCE FROM WHICH FILL MATERIAL WILL BE OBTAINED FROM. THE MATERIAL SHALL BE FROM A STATE APPROVED SOURCE AND BE PROVIDED TO THE CONTRACTOR PRIOR TO COMMENCING WITH ANY ON-SITE CONSTRUCTION ACTIVITIES.

**CONSTRUCTION SPECIFICATION**

- USE SYNTHETIC FILTER FABRIC OF AT LEAST 95% BY WEIGHT OF POLYOLEFINS OR POLYESTER, WHICH IS CERTIFIED BY THE MANUFACTURER AS CONFORMING TO THE REQUIREMENTS IN ASTM D 6611. FILTER FABRIC SHALL CONTAIN ULTRAVIOLET RAY INHIBITORS AND STABILIZERS TO PROVIDE A MINIMUM OF 6 MONTHS OF EXPECTED USABLE CONSTRUCTION LIFE AT A TEMPERATURE RANGE OF 0 TO 120°F.
- CONSTRUCT THE SEDIMENT BARRIER OF GEOTEX 105F EXTRA STRENGTH SYNTHETIC FILTER FABRIC, OR APPROVED EQUAL, ENSURE THAT THE HEIGHT OF THE SEDIMENT BARRIER DOES NOT EXCEED 24 INCHES ABOVE THE GROUND SURFACE.
- CONSTRUCT THE FILTER FABRIC FROM A CONTINUOUS ROLL CUT TO THE LENGTH OF THE BARRIER TO AVOID JOINTS. WHEN JOINTS ARE NECESSARY, SECURELY FASTEN THE FILTER CLOTH ONLY AT A SUPPORT POST WITH A 4" MINIMUM OVERLAP TO THE NEXT POST.
- SYNTHETIC FILTER FABRIC SHALL BE FASTENED SECURELY TO EACH FENCE POST WITH MIN. 50 LB. TENSILE STRENGTH WIRE OR ZIP TIES AT TOP, MID-SECTION AND BOTTOM. FABRIC HEIGHT SHALL BE BETWEEN 18" MIN. TO 24" MAX. ABOVE GROUND LEVEL ON THE UPSLOPE SIDE OF THE POSTS. EXTRA STRENGTH FILTER FABRIC POST SPACING SHALL BE SECURELY FASTENED DIRECTLY TO POSTS.
- 512 INCHES OF FILTER FABRIC SHALL BE BURIED IN AN EXCAVATED TRENCH APPROXIMATELY 4 INCHES WIDE AND 8 INCHES DEEP ALONG THE PROPOSED LINE OF POSTS AND UPSLOPE FROM THE BARRIER. BACKFILL TRENCH WITH MECHANICALLY COMPACTED SOIL PLACED OVER THE FILTER FABRIC. DO NOT ATTACH FILTER FABRIC TO TREES.
- 6.5 FT FENCE SHALL BE INSPECTED AT LEAST ONCE A WEEK & AFTER EACH RAINFALL EVENT. MAKE ANY REPAIRS IMMEDIATELY. SHOULD THE FABRIC COLLAPSE, TEAR, DECOMPOSE OR BECOME INEFFECTIVE, REPLACE IT PROMPTLY.
- REMOVE SEDIMENT DEPOSITS AS NECESSARY TO PROVIDE ADEQUATE STORAGE VOLUME FOR THE NEXT RAIN AND TO REDUCE PRESSURE ON THE FENCE. TAKE CARE TO AVOID UNDERMINING THE FENCE DURING CLEANOUT.
- REMOVE ALL FENCING MATERIALS AND UNSTABLE SEDIMENT DEPOSITS AND BRING THE AREA TO GRADE AND STABILIZE IT AFTER THE CONTRIBUTING DRAINAGE AREA HAS BEEN PROPERLY STABILIZED.

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**ENGINEER'S SEAL**  
 NORTH CAROLINA PROFESSIONAL SEAL 030406  
 ENGINEER DAVID M. RYAN

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**PROJECT NAME**  
**LOT 1-R**  
 KILL DEVIL HILLS REALTY CORP  
 SUBDIVISION  
 SAPLING LAND COMPANY, LLC  
 KILL DEVIL HILLS TOWNSHIP,  
 DARE COUNTY, NC

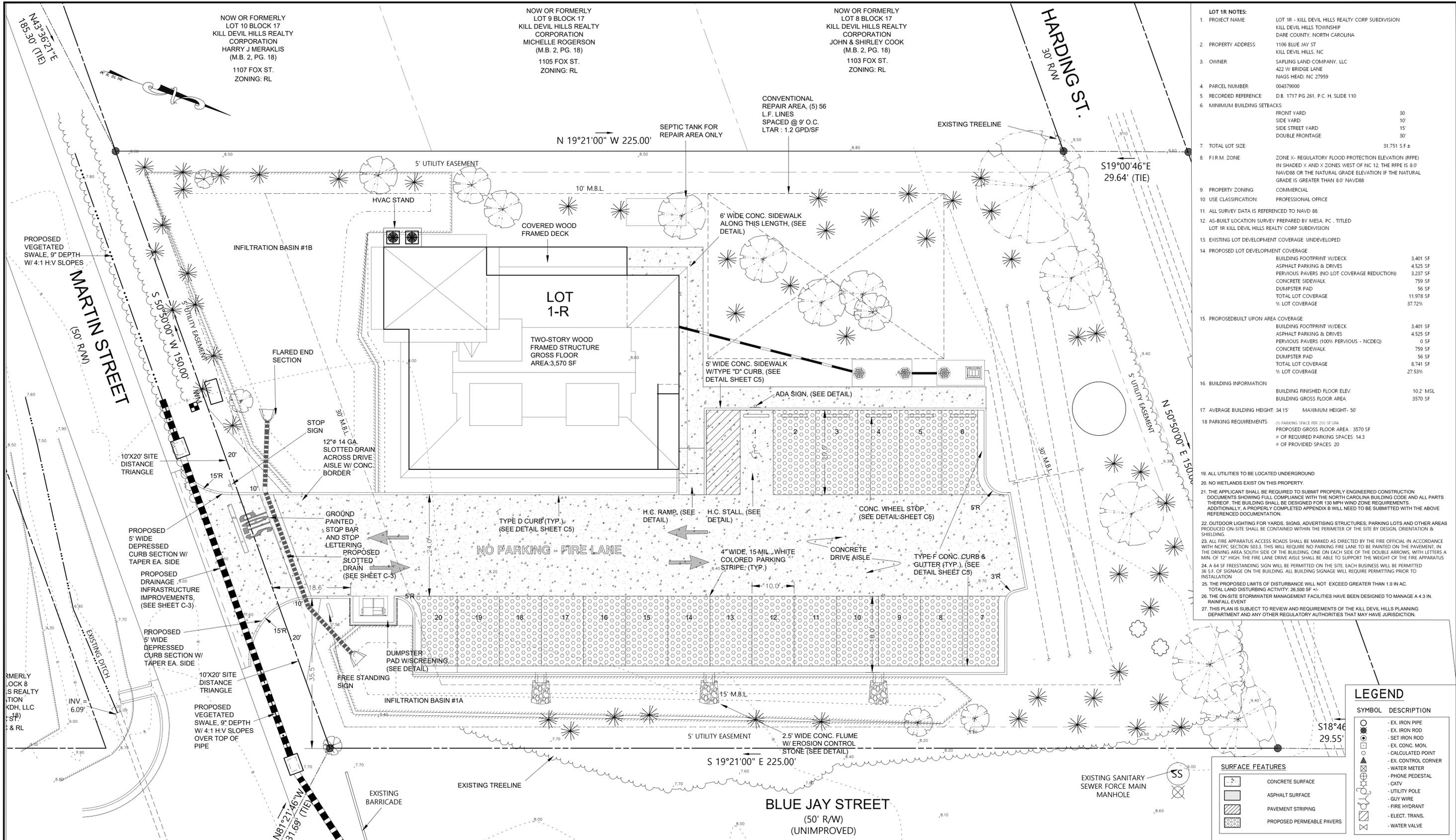
**GRAPHIC SCALE:**  
 1" = 20'

20 0 20 40 80

**DRAWING TITLE**  
**EXISTING CONDITIONS PLAN**

**DRAWING NUMBER**  
**C1**

**SHEET NUMBER**  
**1 OF 8**



- LOT 1R NOTES:**
- PROJECT NAME: LOT 1R - KILL DEVIL HILLS REALTY CORP SUBDIVISION
  - PROPERTY ADDRESS: 1106 BLUE JAY ST, KILL DEVIL HILLS, NC
  - OWNER: SAPIUM LAND COMPANY, LLC, 422 W BRIDGE LANE, NAGS HEAD, NC 27959
  - PARCEL NUMBER: 004379000
  - RECORDED REFERENCE: DB 1717 PG 261, P.C. H. SLIDE 110
  - MINIMUM BUILDING SETBACKS: FRONT YARD 30, SIDE YARD 10, SIDE STREET YARD 15, DOUBLE FRONTAGE 30
  - TOTAL LOT SIZE: 31,751 S.F. ±
  - F.I.R.M. ZONE: ZONE X- REGULATORY FLOOD PROTECTION ELEVATION (RFPE) IN SHADED X AND X ZONES WEST OF NC 12, THE RFPE IS 8.0' NAVD88 OR THE NATURAL GRADE ELEVATION IF THE NATURAL GRADE IS GREATER THAN 8.0' NAVD88
  - PROPERTY ZONING: COMMERCIAL
  - USE CLASSIFICATION: PROFESSIONAL OFFICE
  - ALL SURVEY DATA IS REFERENCED TO NAVD 88
  - AS-BUILT LOCATION SURVEY PREPARED BY MESA, PC, TITLED LOT 1R KILL DEVIL HILLS REALTY CORP SUBDIVISION
  - EXISTING LOT DEVELOPMENT COVERAGE: UNDEVELOPED
  - PROPOSED LOT DEVELOPMENT COVERAGE:
 

BUILDING FOOTPRINT W/DECK	3,401 SF
ASPHALT PARKING & DRIVES	4,525 SF
PERVIOUS PAVERS (NO LOT COVERAGE REDUCTION)	3,237 SF
CONCRETE SIDEWALK	759 SF
DUMPSTER PAD	56 SF
TOTAL LOT COVERAGE	11,978 SF
% LOT COVERAGE	37.72%
  - PROPOSED BUILT UPON AREA COVERAGE:
 

BUILDING FOOTPRINT W/DECK	3,401 SF
ASPHALT PARKING & DRIVES	4,525 SF
PERVIOUS PAVERS (100% PERVIOUS - NCDEQ)	0 SF
CONCRETE SIDEWALK	759 SF
DUMPSTER PAD	56 SF
TOTAL LOT COVERAGE	8,741 SF
% LOT COVERAGE	27.53%
  - BUILDING INFORMATION: BUILDING FINISHED FLOOR ELEV. 10.2' MSL, BUILDING GROSS FLOOR AREA 3570 SF
  - AVERAGE BUILDING HEIGHT: 34.15', MAXIMUM HEIGHT: 50'
  - PARKING REQUIREMENTS: (1) PARKING STRIKE PER 200 SF GFA, PROPOSED GROSS FLOOR AREA 3570 SF, # OF REQUIRED PARKING SPACES 14.3, # OF PROVIDED SPACES 20
  - ALL UTILITIES TO BE LOCATED UNDERGROUND
  - NO WETLANDS EXIST ON THIS PROPERTY.
  - THE APPLICANT SHALL BE REQUIRED TO SUBMIT PROPERLY ENGINEERED CONSTRUCTION DOCUMENTS SHOWING FULL COMPLIANCE WITH THE NORTH CAROLINA BUILDING CODE AND ALL PARTS THEREOF. THE BUILDING SHALL BE DESIGNED FOR 130 MPH WIND ZONE REQUIREMENTS. ADDITIONALLY, A PROPERLY COMPLETED APPENDIX B WILL NEED TO BE SUBMITTED WITH THE ABOVE REFERENCED DOCUMENTATION.
  - OUTDOOR LIGHTING FOR YARDS, SIGNS, ADVERTISING STRUCTURES, PARKING LOTS AND OTHER AREAS PRODUCED ON-SITE SHALL BE CONTAINED WITHIN THE PERIMETER OF THE SITE BY DESIGN, ORIENTATION & SHIELDING.
  - ALL FIRE APPARATUS ACCESS ROADS SHALL BE MARKED AS DIRECTED BY THE FIRE OFFICIAL IN ACCORDANCE WITH NCFPC SECTION 503.3. THIS WILL REQUIRE NO PARKING FIRE LANE TO BE PAINTED ON THE PAVEMENT, IN THE DRIVING AREA SOUTH SIDE OF THE BUILDING, ONE ON EACH SIDE OF THE DOUBLE ARROWS, WITH LETTERS A MIN. OF 12" HIGH. THE FIRE LANE DRIVE AISLE SHALL BE ABLE TO SUPPORT THE WEIGHT OF THE FIRE APPARATUS.
  - A 64 SF FREESTANDING SIGN WILL BE PERMITTED ON THE SITE. EACH BUSINESS WILL BE PERMITTED 36 S.F. OF SIGNAGE ON THE BUILDING. ALL BUILDING SIGNAGE WILL REQUIRE PERMITTING PRIOR TO INSTALLATION.
  - THE PROPOSED LIMITS OF DISTURBANCE WILL NOT EXCEED GREATER THAN 1.0 IN AC. TOTAL LAND DISTURBING ACTIVITY: 26,500 SF ±.
  - THE ON-SITE STORMWATER MANAGEMENT FACILITIES HAVE BEEN DESIGNED TO MANAGE A 4.3 IN. RAINFALL EVENT.
  - THIS PLAN IS SUBJECT TO REVIEW AND REQUIREMENTS OF THE KILL DEVIL HILLS PLANNING DEPARTMENT AND ANY OTHER REGULATORY AUTHORITIES THAT MAY HAVE JURISDICTION.

**LEGEND**

SYMBOL	DESCRIPTION
○	EX. IRON PIPE
●	EX. IRON ROD
○	SET IRON ROD
□	EX. CONC. MON.
○	CALCULATED POINT
○	EX. CONTROL CORNER
○	WATER METER
○	PHONE PEDESTAL
○	CATV
○	UTILITY POLE
○	GUY WIRE
○	FIRE HYDRANT
○	ELECT. TRANS.
○	WATER VALVE

**SURFACE FEATURES**

□	CONCRETE SURFACE
□	ASPHALT SURFACE
□	PAVEMENT STRIPING
□	PROPOSED PERMEABLE PAVERS

DRAWING SCALE: 1"=20'	1 ADDRESS TOWN TRC COMMENTS	3/29/24
PROJECT NO.: P1032	2 ADDRESS TOWN TRC COMMENTS	5/18/24
DRAWING NO.: P103900B1-C3D		
DATE: 10-30-13		
DESIGNED: DMR		
CHECKED: DMR		
NUM.	REVISION	DATE

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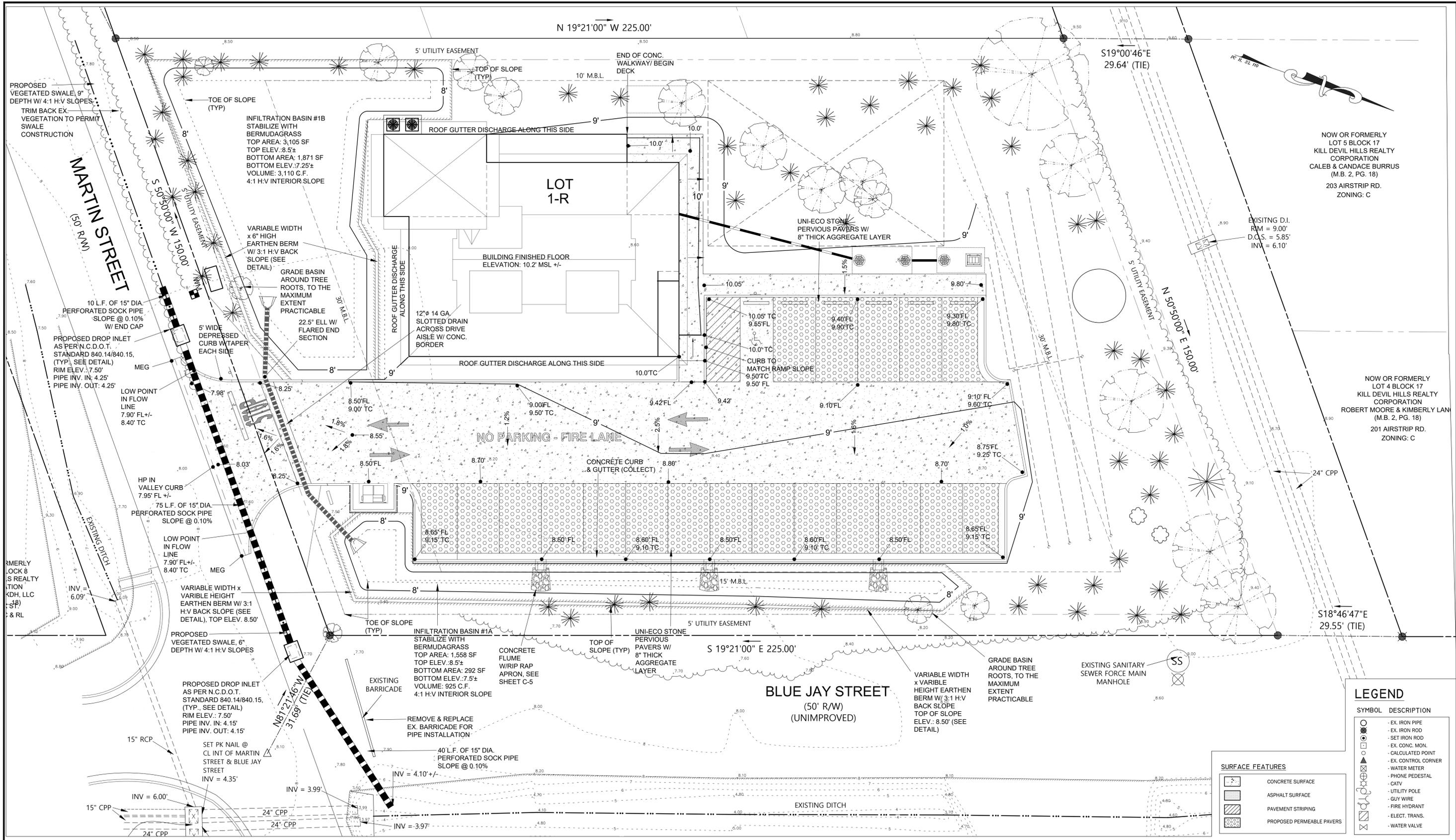
PROJECT NAME: **LOT 1-R**  
**LOT 1-R, SECTION 17**  
**KILL DEVIL HILLS REALTY**  
**CORP SUBDIVISION**  
 KILL DEVIL HILLS TOWNSHIP,  
 DARE COUNTY, NC

GRAPHIC SCALE: 1"=10'

DRAWING TITLE: **SITE DEVELOPMENT PLAN**

DRAWING NUMBER: **C2**

SHEET NUMBER: **2 OF 8**



NOW OR FORMERLY  
LOT 5 BLOCK 17  
KILL DEVIL HILLS REALTY  
CORPORATION  
CALEB & CANDACE BURRUS  
(M.B. 2, PG. 18)  
203 AIRSTRIP RD.  
ZONING: C

NOW OR FORMERLY  
LOT 4 BLOCK 17  
KILL DEVIL HILLS REALTY  
CORPORATION  
ROBERT MOORE & KIMBERLY LAM  
(M.B. 2, PG. 18)  
201 AIRSTRIP RD.  
ZONING: C

**LEGEND**

SYMBOL	DESCRIPTION
○	EX. IRON PIPE
●	EX. IRON ROD
⊙	SET IRON ROD
⊠	EX. CONC. MON.
⊕	CALCULATED POINT
⊗	EX. CONTROL CORNER
⊕	WATER METER
⊕	PHONE PEDESTAL
⊕	CATV
⊕	UTILITY POLE
⊕	GUY WIRE
⊕	FIRE HYDRANT
⊕	ELECT. TRANS.
⊕	WATER VALVE

**SURFACE FEATURES**

[Pattern]	CONCRETE SURFACE
[Pattern]	ASPHALT SURFACE
[Pattern]	PAVEMENT STRIPING
[Pattern]	PROPOSED PERMEABLE PAVERS

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PROJECT NO.: P1032	2 ADDRESS TOWN TRC COMMENTS	5/18/24
DRAWING NO.: P103900B1-C3D		
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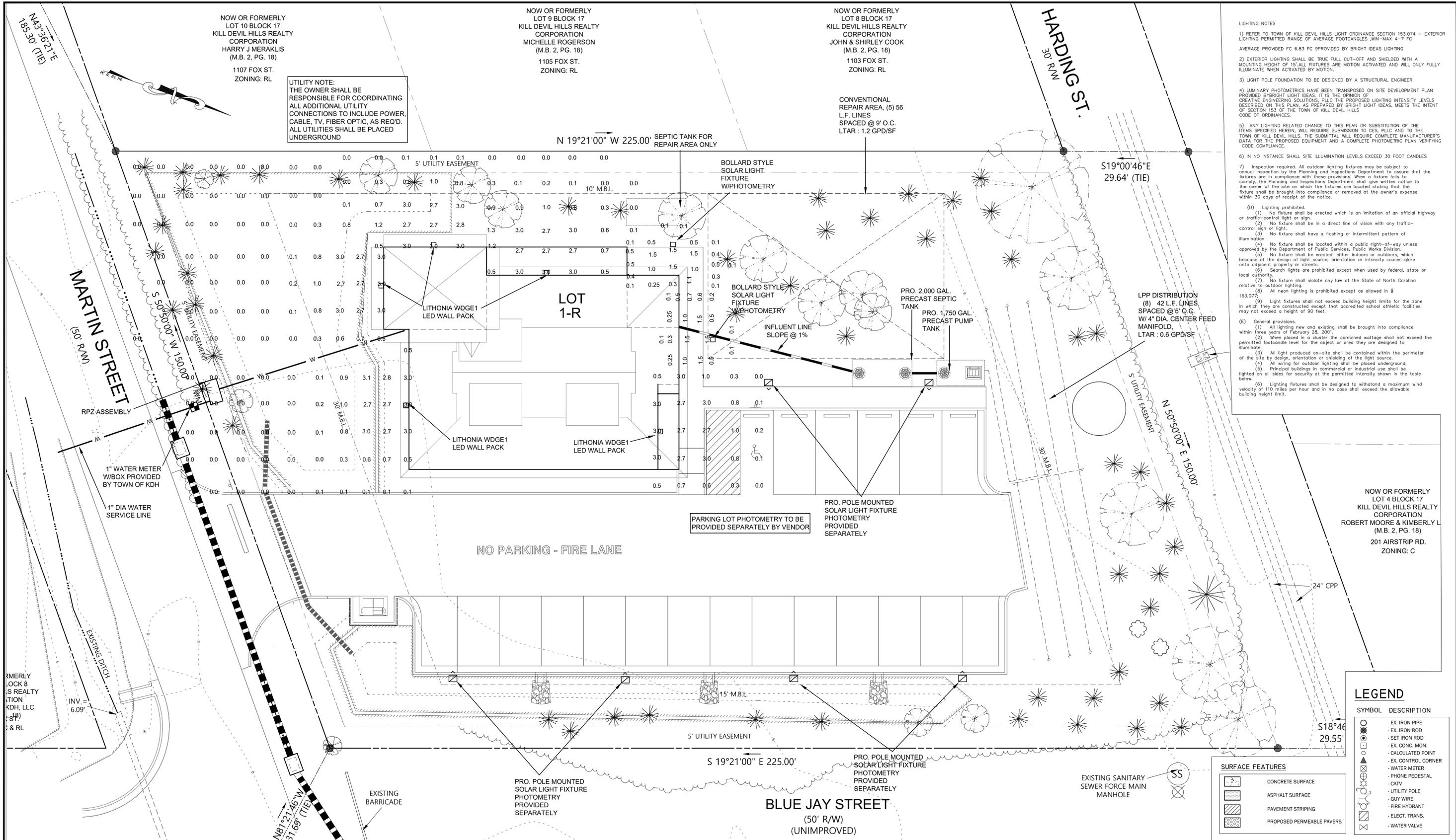
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LOT 1-R, SECTION 17  
KILL DEVIL HILLS REALTY  
CORP SUBDIVISION  
KILL DEVIL HILLS TOWNSHIP,  
DARE COUNTY, NC

GRAPHIC SCALE:  
1" = 10'

DRAWING TITLE  
**GRADING AND DRAINAGE PLAN**

DRAWING NUMBER  
**C3**

SHEET NUMBER  
**3 OF 8**



**LIGHTING NOTES**

- REFER TO TOWN OF KILL DEVIL HILLS LIGHT ORDINANCE SECTION 153.074 - EXTERIOR LIGHTING PERMITTED RANGE OF AVERAGE FOOTCANGLES, MIN-MAX 4-7 FC AVERAGE PROVIDED FC 6.83 FC PROVIDED BY BRIGHT IDEAS LIGHTING
- EXTERIOR LIGHTING SHALL BE TRUE FULL CUT-OFF AND SHIELDED WITH A MOUNTING HEIGHT OF 15' ALL FIXTURES ARE MOTION ACTIVATED AND WILL ONLY FULLY ILLUMINATE WHEN ACTIVATED BY MOTION.
- LIGHT POLE FOUNDATION TO BE DESIGNED BY A STRUCTURAL ENGINEER.
- LUMINARY PHOTOMETRICS HAVE BEEN TRANSPPOSED ON SITE DEVELOPMENT PLAN PROVIDED BY BRIGHT LIGHT IDEAS. IT IS THE OPINION OF CREATIVE ENGINEERING SOLUTIONS, PLLC THE PROPOSED LIGHTING INTENSITY LEVELS DESCRIBED ON THIS PLAN, AS PREPARED BY BRIGHT LIGHT IDEAS, MEETS THE INTENT OF SECTION 153 OF THE TOWN OF KILL DEVIL HILLS
- ANY LIGHTING RELATED CHANGE TO THIS PLAN OR SUBSTITUTION OF THE ITEMS SPECIFIED HEREIN, WILL REQUIRE SUBMISSION TO CES, PLLC AND TO THE TOWN OF KILL DEVIL HILLS. THE SUBMITTAL WILL REQUIRE COMPLETE MANUFACTURER'S DATA FOR THE PROPOSED EQUIPMENT AND A COMPLETE PHOTOMETRIC PLAN VERIFYING CODE COMPLIANCE.
- IN NO INSTANCE SHALL SITE ILLUMINATION LEVELS EXCEED 30 FOOT CANDLES
- Inspection required. All outdoor lighting fixtures may be subject to annual inspection by the Planning and Inspections Department to assure that the fixtures are in compliance with these provisions. When a fixture fails to comply, the Planning and Inspections Department shall give written notice to the owner of the site on which the fixtures are located stating that the fixture shall be brought into compliance or removed at the owner's expense within 30 days of receipt of the notice.
  - Lighting prohibited.
  - No fixture shall be erected which is an imitation of an official highway or traffic-control light or sign.
  - No fixture shall be in a direct line of vision with any traffic-control sign or light.
  - No fixture shall have a flashing or intermittent pattern of illumination.
  - No fixture shall be located within a public right-of-way unless approved by the Department of Public Services, Public Works Division.
  - No fixture shall be erected, either indoors or outdoors, which because of the design of light source, orientation or intensity causes glare onto adjacent property or streets.
  - Search lights are prohibited except when used by federal, state or local authority.
  - No fixture shall violate any law of the State of North Carolina relative to outdoor lighting.
  - All neon lighting is prohibited except as allowed in § 153.077.
  - Light fixtures shall not exceed building height limits for the zone in which they are constructed except that accredited school athletic facilities may not exceed a height of 90 feet.
- General provisions.
  - All lighting new and existing shall be brought into compliance within three years of February 28, 2001.
  - When placed in a cluster the combined wattage shall not exceed the permitted footcandle level for the object or area they are designed to illuminate.
  - All light produced on-site shall be contained within the perimeter of the site by design, orientation or shielding of the light source.
  - All wiring for outdoor lighting shall be placed underground.
  - Principal buildings in commercial or industrial use shall be lighted on all sides for security at the permitted intensity shown in the table below.
  - Lighting fixtures shall be designed to withstand a maximum wind velocity of 110 miles per hour and in no case shall exceed the allowable building height limit.

**LEGEND**

SYMBOL	DESCRIPTION
○	-EX. IRON PIPE
●	-EX. IRON ROD
⊙	-SET IRON ROD
⊠	-EX. CONC. MON.
⊕	-CALCULATED POINT
⊗	-EX. CONTROL CORNER
⊘	-WATER METER
⊙	-PHONE PEDESTAL
⊕	-CATV
⊗	-UTILITY POLE
⊘	-GUY WIRE
⊙	-FIRE HYDRANT
⊕	-ELECT. TRANS.
⊗	-WATER VALVE

**SURFACE FEATURES**

▨	CONCRETE SURFACE
▩	ASPHALT SURFACE
▧	PAVEMENT STRIPING
▤	PROPOSED PERMEABLE PAVERS

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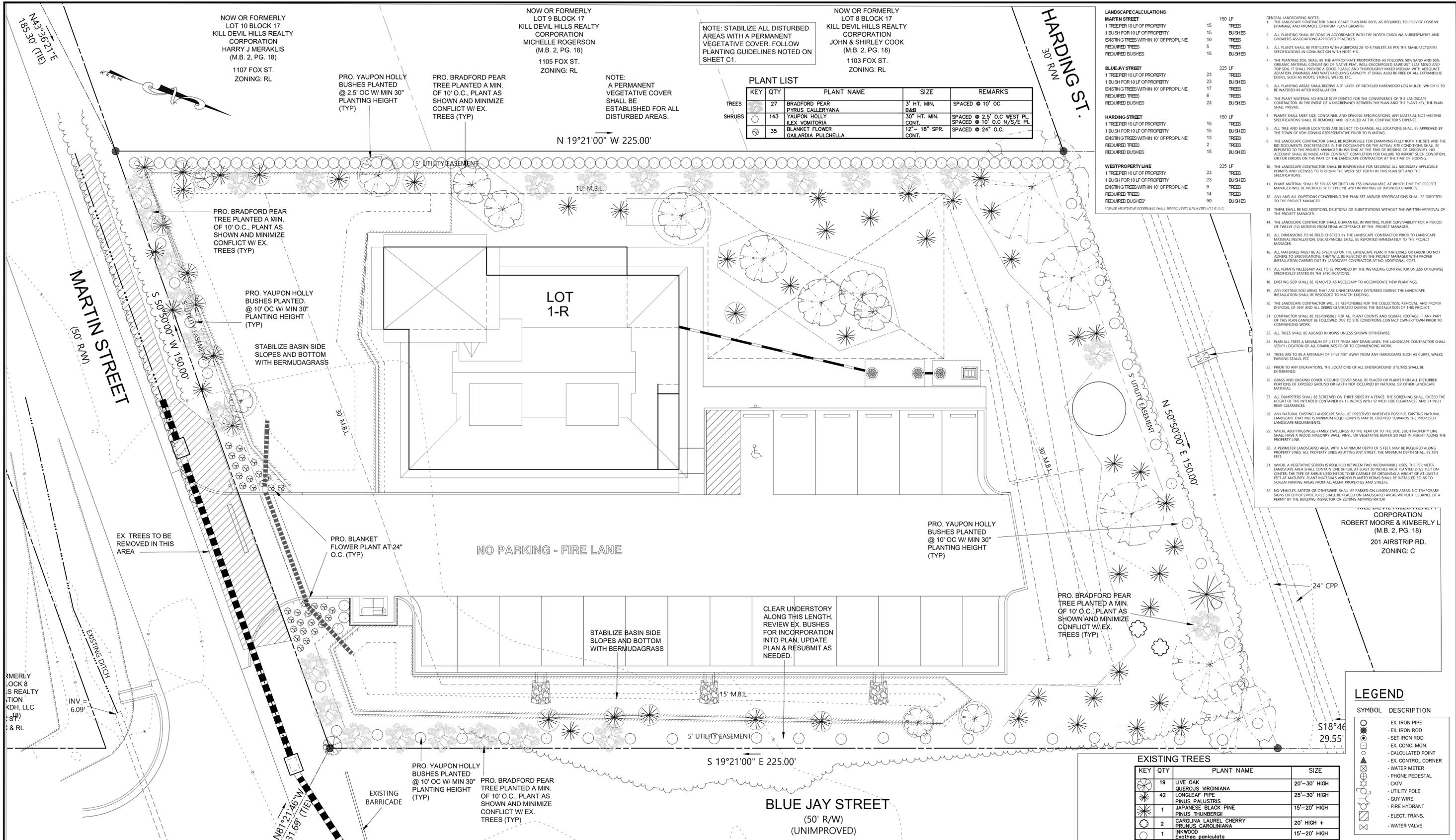
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**KILL DEVIL HILLS REALTY**  
**CORP SUBDIVISION**  
 KILL DEVIL HILLS TOWNSHIP,  
 DARE COUNTY, NC

GRAPHIC SCALE:  
 1" = 10'

DRAWING TITLE  
**UTILITY AND LIGHTING PLAN**

DRAWING NUMBER  
**C4**

SHEET NUMBER  
**4 OF 8**



NOTE: STABILIZE ALL DISTURBED AREAS WITH A PERMANENT VEGETATIVE COVER. FOLLOW PLANTING GUIDELINES NOTED ON SHEET C1.

KEY	QTY	PLANT NAME	SIZE	REMARKS
TREES	27	BRADFORD PEAR PYRUS CALLERYANA	3' HT. MIN. B&B	SPACED @ 10' OC
SHRUBS	143	YAUPON HOLLY ILEX VOMITORIA	30" HT. MIN. CONT.	SPACED @ 2.5' O.C. WEST PL. SPACED @ 10' O.C. N/S/E PL.
	35	BLANKET FLOWER GAILLARDIA PULCHELLA	12" - 18" SPR. CONT.	SPACED @ 24" O.C.

LANDSCAPE CALCULATIONS		
MARTIN STREET	150 LF	TREES
1 TREE PER 10 LF OF PROPERTY	15	BUSHES
1 BUSH FOR 10 LF OF PROPERTY	15	TREES
EXISTING TREES WITHIN 10' OF PROPLINE	10	BUSHES
REQUIRED TREES	5	TREES
REQUIRED BUSHES	15	BUSHES
BLUE JAY STREET	225 LF	TREES
1 TREE PER 10 LF OF PROPERTY	23	BUSHES
1 BUSH FOR 10 LF OF PROPERTY	23	TREES
EXISTING TREES WITHIN 10' OF PROPLINE	17	BUSHES
REQUIRED TREES	6	TREES
REQUIRED BUSHES	23	BUSHES
HARDING STREET	150 LF	TREES
1 TREE PER 10 LF OF PROPERTY	15	BUSHES
1 BUSH FOR 10 LF OF PROPERTY	15	TREES
EXISTING TREES WITHIN 10' OF PROPLINE	13	BUSHES
REQUIRED TREES	2	TREES
REQUIRED BUSHES	15	BUSHES
WEST PROPERTY LINE	225 LF	TREES
1 TREE PER 10 LF OF PROPERTY	23	BUSHES
1 BUSH FOR 10 LF OF PROPERTY	23	TREES
EXISTING TREES WITHIN 10' OF PROPLINE	9	BUSHES
REQUIRED TREES	14	TREES
REQUIRED BUSHES	90	BUSHES

- GENERAL LANDSCAPING NOTES:
- THE LANDSCAPE CONTRACTOR SHALL GRADE PLANTING BEDS, AS REQUIRED, TO PROVIDE POSITIVE DRAINAGE AND PROMOTE OPTIMUM PLANT GROWTH.
  - ALL PLANTING SHALL BE DONE IN ACCORDANCE WITH THE NORTH CAROLINA NURSERYMEN AND GROWERS ASSOCIATIONS APPROVED PRACTICES.
  - ALL PLANTS SHALL BE FERTILIZED WITH AGRIFORM 20-10-5 TABLETS AS PER THE MANUFACTURERS SPECIFICATIONS IN CONJUNCTION WITH NOTE #5.
  - THE PLANTING SOIL SHALL BE THE APPROXIMATE PROPORTIONS AS FOLLOWS: 50% SAND AND 50% ORGANIC MATERIAL CONSISTING OF NATIVE HEAT WELL-DISCOMBODDED SAWDUST, LEAF MOULD AND TOP SOIL. IT SHALL PROVIDE A GOOD PLANTABLE AND THOROUGHLY MOIST MEDIUM WITH ADEQUATE AERATION, DRAINAGE AND WATER HOLDING CAPACITY. IT SHALL ALSO BE FREE OF ALL EXTRANEOUS DEBRIS, SUCH AS ROOTS, STONES, WEEDS, ETC.
  - ALL PLANTING AREAS SHALL RECEIVE A 3" LAYER OF RECYCLED HARDWOOD MULCH, WHICH IS TO BE WATERED-IN AFTER INSTALLATION.
  - THE PLANT MATERIAL SCHEDULE IS PRESENTED FOR THE CONVENIENCE OF THE LANDSCAPE CONTRACTOR. IN THE EVENT OF A DISCREPANCY BETWEEN THE PLAN AND THE PLANT KEY, THE PLAN SHALL PREVAIL.
  - PLANTS SHALL MEET SIZE, CONTAINER, AND SPACING SPECIFICATIONS. ANY MATERIAL NOT MEETING SPECIFICATIONS SHALL BE REMOVED AND REPLACED AT THE CONTRACTORS EXPENSE.
  - ALL TREE AND SHRUB LOCATIONS ARE SUBJECT TO CHANGE. ALL LOCATIONS SHALL BE APPROVED BY THE TOWN OF KDH ZONING REPRESENTATIVE PRIOR TO PLANTING.
  - THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR EXAMINING FULLY BOTH THE SITE AND THE BID DOCUMENTS. DISCREPANCIES IN THE DOCUMENTS OR THE ACTUAL SITE CONDITIONS SHALL BE REPORTED TO THE PROJECT MANAGER IN WRITING AT THE TIME OF BIDDING OR DISCOVERY. NO ACCOUNT SHALL BE MADE AFTER CONTRACT COMPLETION FOR FAILURE TO REPORT SUCH CONDITION OR FOR ERRORS ON THE PART OF THE LANDSCAPE CONTRACTOR AT THE TIME OF BIDDING.
  - THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR SECURING ALL NECESSARY APPLICABLE PERMITS AND LICENSES TO PERFORM THE WORK SET FORTH IN THIS PLAN SET AND THE SPECIFICATIONS.
  - PLANT MATERIAL SHALL BE BID AS SPECIFIED UNLESS UNAVAILABLE. AT WHICH TIME THE PROJECT MANAGER WILL BE NOTIFIED BY TELEPHONE AND IN WRITING OF INTENDED CHANGES.
  - ANY AND ALL QUESTIONS CONCERNING THE PLAN SET AND/OR SPECIFICATIONS SHALL BE DIRECTED TO THE PROJECT MANAGER.
  - THERE SHALL BE NO ADDITIONS, DELETIONS OR SUBSTITUTIONS WITHOUT THE WRITTEN APPROVAL OF THE PROJECT MANAGER.
  - THE LANDSCAPE CONTRACTOR SHALL GUARANTEE, IN WRITING, PLANT SURVIVABILITY FOR A PERIOD OF TWELVE (12) MONTHS FROM FINAL ACCEPTANCE BY THE PROJECT MANAGER.
  - ALL DIMENSIONS TO BE FIELD-CHECKED BY THE LANDSCAPE CONTRACTOR PRIOR TO LANDSCAPE MATERIAL INSTALLATION. DISCREPANCIES SHALL BE REPORTED IMMEDIATELY TO THE PROJECT MANAGER.
  - ALL MATERIALS MUST BE AS SPECIFIED ON THE LANDSCAPE PLAN. IF MATERIALS OR LABOR DO NOT ADHERE TO SPECIFICATIONS, THEY WILL BE REJECTED BY THE PROJECT MANAGER WITH PROPER INSTALLATION CARRIED OUT BY LANDSCAPE CONTRACTOR AT NO ADDITIONAL COST.
  - ALL PERMITS NECESSARY ARE TO BE PROVIDED BY THE INSTALLING CONTRACTOR UNLESS OTHERWISE SPECIFICALLY STATED IN THE SPECIFICATIONS.
  - EXISTING SOD SHALL BE REMOVED AS NECESSARY TO ACCOMMODATE NEW PLANTINGS.
  - ANY EXISTING SOD AREAS THAT ARE UNNECESSARILY DISTURBED DURING THE LANDSCAPE INSTALLATION SHALL BE RESEED TO MATCH EXISTING.
  - THE LANDSCAPE CONTRACTOR WILL BE RESPONSIBLE FOR THE COLLECTION, REMOVAL, AND PROPER DISPOSAL OF ANY AND ALL DEBRIS GENERATED DURING THE INSTALLATION OF THIS PROJECT.
  - CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PLANT COUNTS AND SQUARE FOOTAGE. IF ANY PART OF THIS PLAN CANNOT BE FOLLOWED DUE TO SITE CONDITIONS CONTACT OWNER/TOWN PRIOR TO COMMENCING WORK.
  - ALL TREES SHALL BE ALIGNED IN ROWS UNLESS SHOWN OTHERWISE.
  - PLAN ALL TREES A MINIMUM OF 2 FEET FROM ANY DRAIN LINES. THE LANDSCAPE CONTRACTOR SHALL VERIFY LOCATION OF ALL DRAIN LINES PRIOR TO COMMENCING WORK.
  - TREES ARE TO BE A MINIMUM OF 3-1/2 FEET AWAY FROM ANY HARDSCAPES SUCH AS CURBS, WALKS, PARKING STALLS, ETC.
  - PRIOR TO ANY EXCAVATIONS, THE LOCATIONS OF ALL UNDERGROUND UTILITIES SHALL BE DETERMINED.
  - GRASS AND GROUND COVER, GROUND COVER SHALL BE PLACED OR PLANTED ON ALL DISTURBED PORTIONS OF EXPOSED GROUND OR EARTH NOT OCCUPIED BY NATURAL OR OTHER LANDSCAPE MATERIAL.
  - ALL DUMPSTERS SHALL BE SCREENED ON THREE SIDES BY A FENCE. THE SCREENING SHALL EXCEED THE HEIGHT OF THE INTENDED CONTAINER BY 12 INCHES WITH 12 INCH SIDE CLEARANCES AND 24 INCH REAR CLEARANCES.
  - ANY NATURAL EXISTING LANDSCAPE SHALL BE PRESERVED WHEREVER POSSIBLE. EXISTING NATURAL LANDSCAPE THAT MEETS MINIMUM REQUIREMENTS MAY BE CREDITED TOWARDS THE PROPOSED LANDSCAPE REQUIREMENTS.
  - WHERE ADJOINING SINGLE-FAMILY DWELLINGS TO THE REAR OR TO THE SIDE, SUCH PROPERTY LINE SHALL HAVE A WOOD MASONRY WALL, VINYL OR VEGETATIVE BUFFER SIX FEET IN HEIGHT ALONG THE PROPERTY LINE.
  - A PERMETER LANDSCAPED AREA WITH A MINIMUM DEPTH OF 5 FEET MAY BE REQUIRED ALONG PROPERTY LINES. ALL PROPERTY LINES ADJUTING ANY STREET, THE MINIMUM DEPTH SHALL BE TEN FEET.
  - WHERE A VEGETATIVE SCREEN IS REQUIRED BETWEEN TWO INCOMPATIBLE USES, THE PERMETER LANDSCAPE AREA SHALL CONTAIN ONE SHRUB AT LEAST 30 INCHES HIGH PLANTED 2-3 FEET ON CENTER. THE TYPE OF SHRUB USED NEEDS TO BE CAPABLE OF OBTAINING A HEIGHT OF AT LEAST 6 FEET AT MATURETY. PLANT MATERIALS AND/OR PLANTED BEAMS SHALL BE INSTALLED SO AS TO SCREEN PARKING AREAS FROM ADJACENT PROPERTIES AND STREETS.
  - NO VEHICLES, MOTOR OR OTHERWISE, SHALL BE PARKED ON LANDSCAPED AREAS. NO TEMPORARY SIGNS OR OTHER STRUCTURES SHALL BE PLACED ON LANDSCAPED AREAS WITHOUT ISSUANCE OF A PERMIT BY THE BUILDING INSPECTOR OR ZONING ADMINISTRATOR.

LEGEND	
SYMBOL	DESCRIPTION
○	- EX. IRON PIPE
●	- EX. IRON ROD
○	- SET IRON ROD
○	- EX. CONC. MON.
○	- CALCULATED POINT
○	- EX. CONTROL CORNER
○	- WATER METER
○	- PHONE PEDESTAL
○	- CATV
○	- UTILITY POLE
○	- GUY WIRE
○	- FIRE HYDRANT
○	- ELECT. TRANS.
○	- WATER VALVE

EXISTING TREES			
KEY	QTY	PLANT NAME	SIZE
○	19	LIVE OAK	20'-30' HIGH
○	42	QUERCUS VIRGINIANA	25'-30' HIGH
○		LONGLEAF PIPE	
○		PINUS PALUSTRIS	
○	1	JAPANESE BLACK PINE	15'-20' HIGH
○		PINUS THUNBERGII	
○	2	CAROLINA LAUREL CHERRY	20' HIGH +
○		PRUNUS CAROLINIANA	
○	1	INKWOOD	15'-20' HIGH
○		Exothea paniculata	

DRAWING SCALE: 1"=20'	1	ADDRESS TOWN TRC COMMENTS	3/29/24
PROJECT NO.: P1032			
DRAWING NO.: P103900B1-C3D			
DATE: 10-30-13			
DESIGNED: DMR			
CHECKED: DMR			
NUM.	REVISION	DATE	

NOTE: THE INFORMATION DESCRIBED HEREON IS BELIEVED TO BE ACCURATE, COMPLETE, AND CURRENT. CES, PLLC MAKES NO WARRANTY AS TO THE ACCURACY, COMPLETENESS OR CURRENCY OF THE CONTENT. IT IS THE CONTRACTORS RESPONSIBILITY TO VERIFY THIS INFORMATION PRIOR TO RELYING ON IT. THE CONTENT OF THESE DOCUMENTS MAY INCLUDE TECHNICAL INACCURACIES OR TYPOGRAPHICAL ERRORS. IF SUCH CONDITIONS EXIST, THE CONTRACTOR SHALL CONSULT WITH THE ENGINEER PRIOR TO PROCEEDING WITH THE SCHEDULED WORK UNTIL AUTHORIZATION TO PROCEED HAS BEEN GRANTED.

**CREATIVE ENGINEERING SOLUTIONS**  
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 TEL/FAX: 252-475-5586  
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ENGINEER'S SEAL  
 NORTH CAROLINA PROFESSIONAL SEAL  
 030406  
 DAVID M. RYAN  
 "final design- for review purposes only"

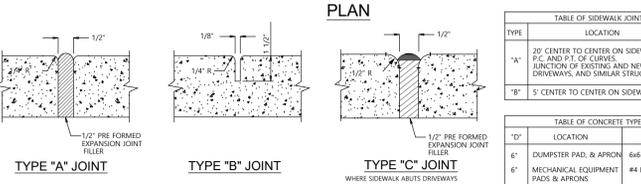
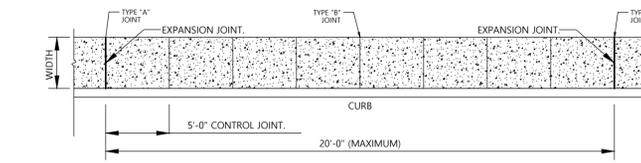
PROJECT NAME  
**LOT 1-R**  
**SECTION 17**  
**KILL DEVIL HILLS REALTY**  
**CORP SUBDIVISION**  
 KILL DEVIL HILLS TOWNSHIP,  
 DARE COUNTY, NC

GRAPHIC SCALE: 1"=10'

DRAWING TITLE  
**LANDSCAPE PLAN**

DRAWING NUMBER  
**C5**

SHEET NUMBER  
**5 OF 8**



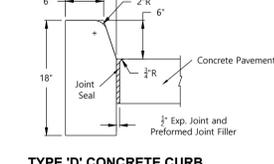
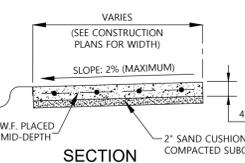
**CONCRETE SIDEWALK INSTALLATION DETAILS**  
NOT TO SCALE (SEE PLAN FOR LOCATIONS)

NOTES:  
1. SIDEWALKS SHALL HAVE A 4" MINIMUM THICKNESS.  
2. ALL SIDEWALKS WILL BE CONSTRUCTED TO A MINIMUM OF 5 FEET WIDE.  
3. ALL CONCRETE USED FOR SIDEWALKS SHALL BE A MINIMUM OF 3500 PSI.  
4. SIDEWALKS SHALL FORM A CONTINUOUS PATH TO MAIN ENTRANCES OF FACILITIES OR COVERED DECKS.

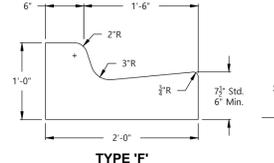
TABLE OF SIDEWALK JOINTS		
TYPE	LOCATION	REINFORCEMENT
"A"	20' CENTER TO CENTER ON SIDEWALKS, P.C. AND P.T. OF CURVES, JUNCTION OF EXISTING AND NEW SIDEWALKS, DRIVEWAYS, AND SIMILAR STRUCTURES.	#4 BARS @ 12" OC EW
"B"	5' CENTER TO CENTER ON SIDEWALKS.	#4 BARS @ 12" OC EW

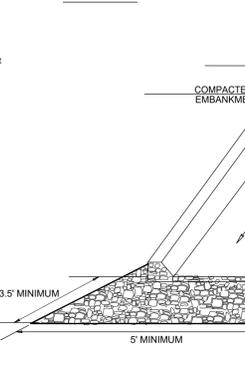
TABLE OF CONCRETE TYPE		
LOCATION	REINFORCEMENT	THICKNESS
DUMPSTER PAD, & APRON	#4 BARS @ 12" OC EW	6"
MECHANICAL EQUIPMENT PADS & APRONS	#4 BARS @ 12" OC EW	6"
SIDEWALK	#4 BARS @ 12" OC EW	4"



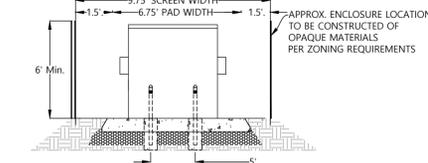
**TYPE "D" CONCRETE CURB**  
NO SCALE



**TYPE "F" CONCRETE CURB AND GUTTER**  
NO SCALE



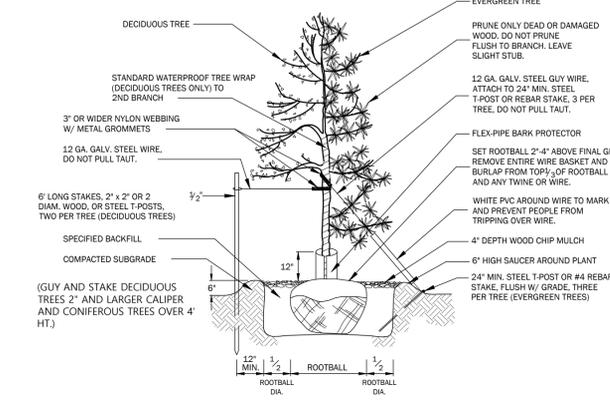
**CONCRETE FLUME W/ OUTLET PROTECTION**  
NOT TO SCALE



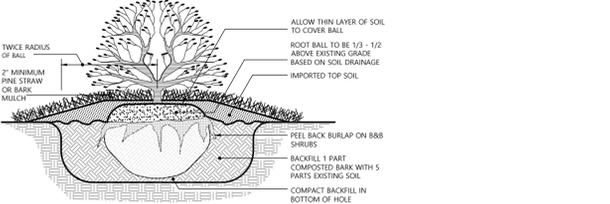
**CONCRETE DUMPSTER PAD DETAILS**  
NOT TO SCALE

GENERAL NOTES:  
1. FENCING MUST BE PLACED OUTSIDE OF PAD. GATES SHALL HAVE 12" CLEAR OPENING. FENCING SHALL BE INSTALLED ON THREE SIDES WITH A GATE ON THE REMAINING SIDE.  
2. GATES OR DOORS ON DUMPSTER ENCLOSURE SHALL BE CONSTRUCTED OF OPAQUE MATERIAL.  
3. VEGETATION IS REQUIRED TO BE PLANTED OUTSIDE OF THE ENCLOSURE.

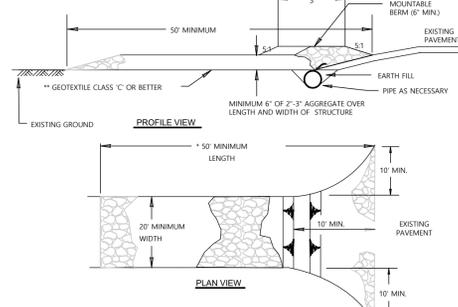
REQUIREMENTS:  
1. DUMPSTERS SHALL BE SCREENED WITH AN ENCLOSURE, FENCE OR WALL THAT REACHES 6 FEET IN HEIGHT OR THE HEIGHT OF THE DUMPSTER WHICHEVER IS HIGHER.  
2. GATES OR DOORS ON DUMPSTER ENCLOSURE SHALL BE CONSTRUCTED OF OPAQUE MATERIAL.  
3. VEGETATION IS REQUIRED TO BE PLANTED OUTSIDE OF THE ENCLOSURE.



**DECIDUOUS AND EVERGREEN TREE PLANTING AND GUYING DETAIL**  
NOT TO SCALE (SEE PLAN FOR LOCATIONS)



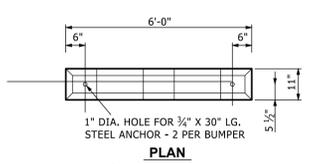
**SHRUB PLANTING DETAIL**  
NOT TO SCALE (SEE PLAN FOR LOCATIONS)



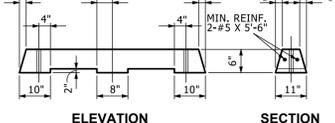
**CONSTRUCTION ENTRANCE SPECIFICATIONS**

- LENGTH - MINIMUM OF 50'
- WIDTH - 20' MINIMUM. SHOULD BE FLARED AT THE EXISTING ROAD TO PROVIDE A TURNING RADIUS.
- GEOTEXTILE FABRIC (FILTER CLOTH) SHALL BE PLACED OVER THE EXISTING GROUND PRIOR TO PLACING STONE.
- STONE - CRUSHED AGGREGATE (2" TO 3") OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT SHALL BE PLACED AT LEAST 6" DEEP OVER THE LENGTH AND WIDTH OF THE ENTRANCE.
- SURFACE WATER - ALL SURFACE WATER FLOWING TO OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED THROUGH THE ENTRANCE, MAINTAINING POSITIVE DRAINAGE. PIPE INSTALLED THROUGH THE STABILIZED CONSTRUCTION ENTRANCE SHALL BE PROTECTED WITH A MOUNTABLE BERM WITH 5:1 SLOPES AND A MINIMUM OF 6" OF STONE OVER THE PIPE. PIPE HAS TO BE SIZED ACCORDING TO THE DRAINAGE. WHEN THE SOE IS LOCATED AT A HIGH SPOT AND HAS NO DRAINAGE TO CONVEY A PIPE WILL NOT BE NECESSARY. PIPE SHOULD BE SIZED ACCORDING TO THE AMOUNT OF RUNOFF TO BE CONVEYED. A 6" MINIMUM WILL BE REQUIRED.
- LOCATION - A STABILIZED CONSTRUCTION ENTRANCE SHALL BE LOCATED AT EVERY POINT WHERE CONSTRUCTION TRAFFIC ENTERS OR LEAVES A CONSTRUCTION SITE. VEHICLES LEAVING THE SITE MUST TRAVEL OVER THE ENTIRE LENGTH OF THE STABILIZED CONSTRUCTION ENTRANCE.

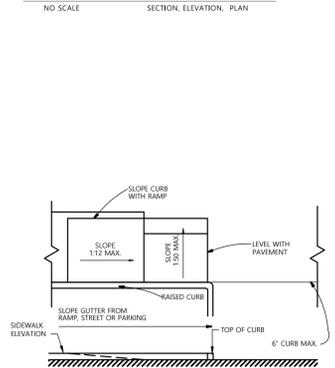
**CONSTRUCTION ENTRANCE**  
NO SCALE LOCATION AS NOTED ON PLAN



**CONCRETE WHEEL STOP**  
NO SCALE

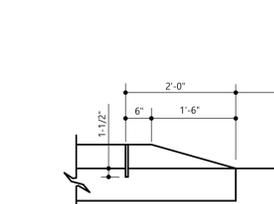


**CONCRETE WHEEL STOP**  
NO SCALE

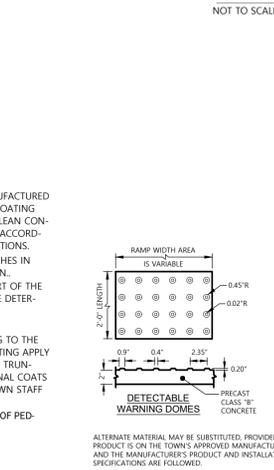


**TYPE "A" WHEELCHAIR RAMP**  
NOT TO SCALE

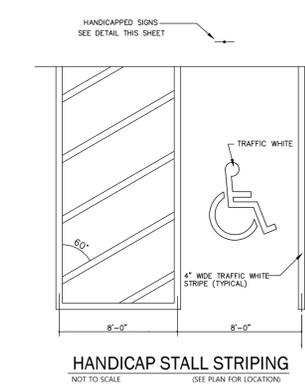
NOTES:  
1. DETECTABLE WARNING SHALL CONSIST OF RAISED TRUNCATED DOMES MANUFACTURED BY "COTE-L INDUSTRIES, INC." CALLED "SAFETY-TRAX", WITH POLYURETHANE COATING "DURABAK", OR APPROVED EQUAL, APPLIED ON SMOOTH (NON-GROOVED), CLEAN CONCRETE RAMP, AND SHALL CONFORM TO THE DETAILS IN THE PLANS AND IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS AND INSTALLATION INSTRUCTIONS.  
2. ALL DETECTABLE WARNING AREAS SHALL START AT BACK OF CURB, BE 24 INCHES IN DEPTH AND COVER THE COMPLETE WIDTH OF THE RAMP AREA 48 INCHES MIN.  
3. 70% VISUAL CONTRAST IS REQUIRED. THE COLOR SHALL BE AN INTEGRAL PART OF THE DETECTABLE WARNING MATERIAL AS SPECIFIED ON THE PLANS. COLOR TO BE DETERMINED BY THE TOWN STAFF. SAFETY YELLOW IS THE DEFAULT COLOR.  
4. APPLIED A COATING OF "DURABAK" SLIP-RESISTANT POLYURETHANE COATING TO THE SMOOTH, CLEAN CONCRETE SURFACE. ON TOP OF THE POLYURETHANE COATING APPLY TRUNCATED DOMES FROM A "SAFETY-TRAX" CONTACT SHEET. ON TOP OF THE TRUNCATED DOMES AND INITIAL POLYURETHANE COATING PLACE THREE ADDITIONAL COATS OF "DURABAK" POLYURETHANE COATING. COLOR TO BE DETERMINED BY TOWN STAFF OR AS SPECIFIED ON THE PLANS. SAFETY YELLOW IS A DEFAULT COLOR.  
5. ALL RAMPS AND DETECTABLE WARNING SHALL BE ALIGNED IN THE DIRECTION OF PEDESTRIAN TRAVEL AND DIRECTED TOWARD RAMP.



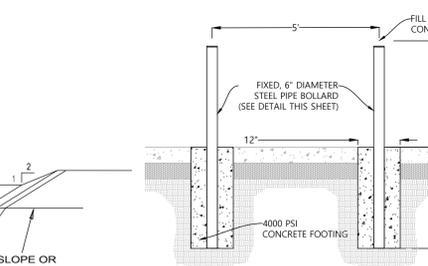
**DEPRESSED CURB SECTION**  
NOT TO SCALE



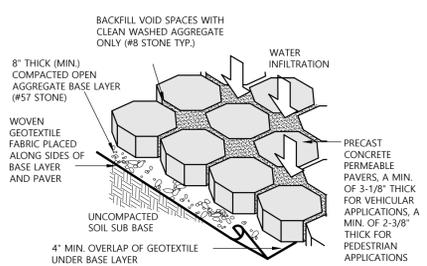
**HANDICAP SIGN DETAIL**  
NOT TO SCALE (SEE PLAN FOR LOCATIONS)



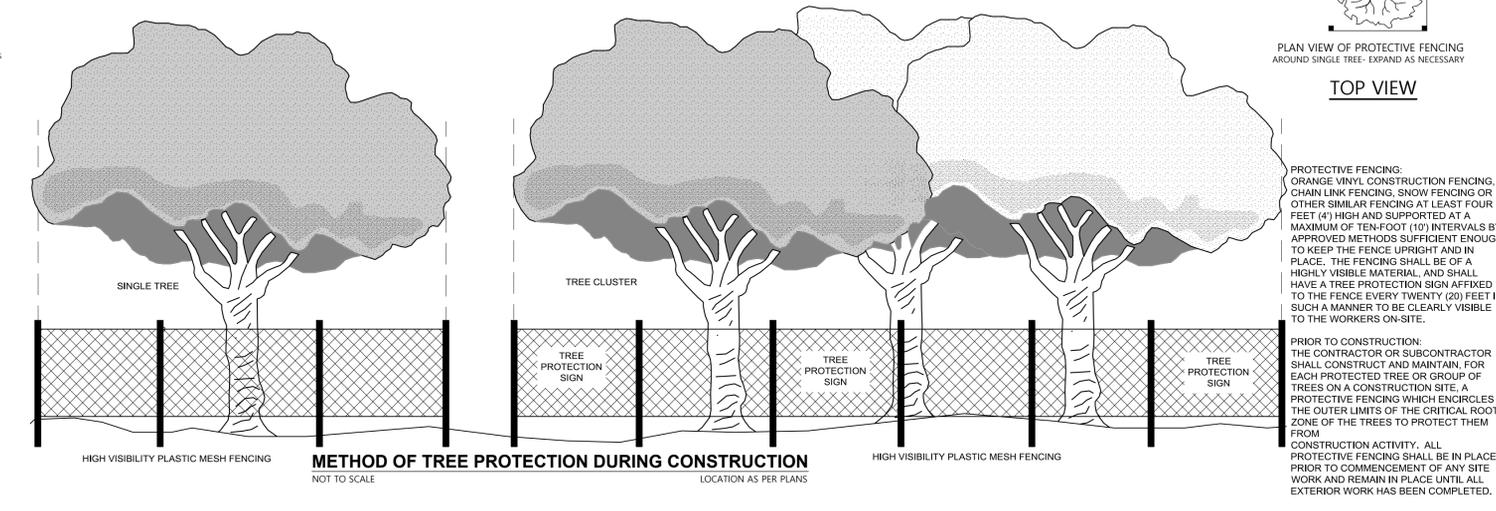
**HANDICAP STALL STRIPING**  
NOT TO SCALE (SEE PLAN FOR LOCATIONS)



**TYP. STANDARD BOLLARD DETAILS**  
NOT TO SCALE (SEE PLAN FOR LOCATIONS)



**PRECAST CONCRETE PERMEABLE PAVER**  
NOT TO SCALE LOCATION AS NOTED ON PLAN



**METHOD OF TREE PROTECTION DURING CONSTRUCTION**  
NOT TO SCALE LOCATION AS PER PLANS

NUM.	REVISION	DATE
1	ADDRESS TOWN TRC COMMENTS	5/18/24

**PROJECT DEVELOPMENT SUMMARY:**

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TEL/FAX: 252-475-5586  
MOBILE: 252-475-0038

ENGINEER'S SEAL  
NORTH CAROLINA PROFESSIONAL SEAL 030406  
DAVID M. RYAN  
"final design- for review purposes only"

PROJECT NAME  
**LOT 1-R KILL DEVIL HILLS REALTY CORP SUBDIVISION SAPLING LAND COMPANY, LLC**  
KILL DEVIL HILLS TOWNSHIP, DARE COUNTY, NC

GRAPHIC SCALE:  
1" = 20'

DRAWING TITLE  
**SITE CONSTRUCTION DETAILS**

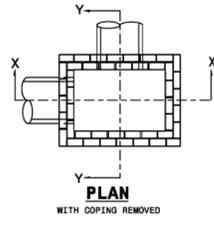
DRAWING NUMBER  
**C6**

SHEET NUMBER  
**6 OF 8**

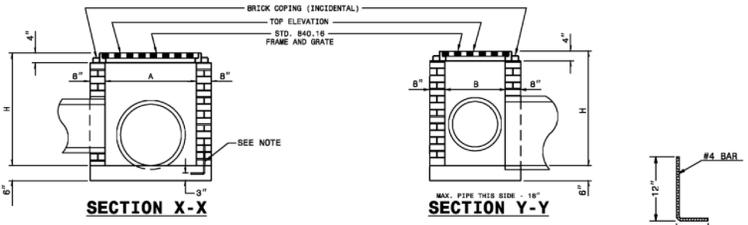
STATE OF NORTH CAROLINA  
DEPT. OF TRANSPORTATION  
DIVISION OF HIGHWAYS  
RALEIGH, N.C.

ENGLISH STANDARD DRAWING FOR  
**BRICK DROP INLET**  
12" THRU 30" PIPE

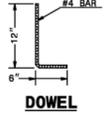
SHEET 1 OF 1  
**840.15**



GENERAL NOTES:  
MORTAR JOINTS 1/2" +/- 1/8" THICK.  
USE CLASS "B" CONCRETE THROUGHOUT.  
USE FORMS FOR CONSTRUCTION OF THE BOTTOM SLAB.  
USE #4 BAR DOWELS AT 12" CENTERS.  
DEDUCT FOR PIPE(S) FROM TOTAL CU. YDS. OF BRICK MASONRY.  
PROVIDE ALL CATCH BASINS OVER 3'-6" IN DEPTH WITH STEPS 12" ON CENTER. USE STEPS WHICH COMPLY WITH STD. DRAWING 840.66.  
USE BRICK OR CONCRETE BLOCK WHICH COMPLIES WITH THE REQUIREMENTS OF SECTION 840 OF THE STANDARD SPECIFICATIONS.  
IF REINFORCED CONCRETE PIPE IS SET IN BOTTOM SLAB OF BOX, ADD TO SLAB AS SHOWN ON STD. NO. 840.00.  
FOR 8'-0" IN HEIGHT OR LESS, USE 8" WALL. OVER 8'-0" IN HEIGHT, USE 12" WALL TO 4'-0" FROM TOP OF WALL AND 8" WALL FOR THE REMAINING 8'-0". QUANTITIES TO BE ADJUSTED ACCORDINGLY.  
CONSTRUCT WITH PIPE CROWNS MATCHING.  
SEE STANDARD DRAWING 840.25 FOR ATTACHMENT OF FRAMES AND GRATES.  
DO NOT USE BRICK MASONRY DROP INLET IN LOCATIONS SUBJECT TO TRAFFIC.  
CHAMFER ALL EXPOSED CORNERS 1".  
DRAWING NOT TO SCALE.



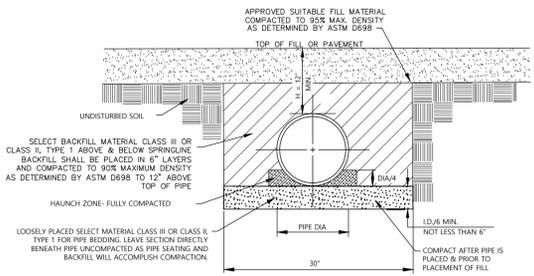
DIMENSIONS AND QUANTITIES FOR DROP INLET (BASED ON MIN. HEIGHT, H)									
DIMENSIONS OF BOX & PIPE			CUBIC YARDS CONCRETE	CUBIC YARDS BRICK MASONRY	DEDUCTIONS FOR ONE PIPE				
PIPE	SPAN	WIDTH			MIN. HEIGHT	WALL PER FOOT HT.	TOTAL BRICK MASONRY FOR MIN. HEIGHT, H	C.S.	R.C.
12"	3'-0"	2'-0"	2'-0"	0.268	0.313	0.522	0.020	0.032	
15"	3'-0"	2'-3"	2'-3"	0.268	0.313	0.600	0.031	0.047	
18"	3'-0"	2'-6"	2'-6"	0.268	0.313	0.678	0.044	0.065	
24"	3'-0"	3'-0"	3'-0"	0.268	0.313	0.835	0.078	0.119	
30"	3'-0"	3'-6"	3'-6"	0.268	0.313	0.991	0.122	0.170	



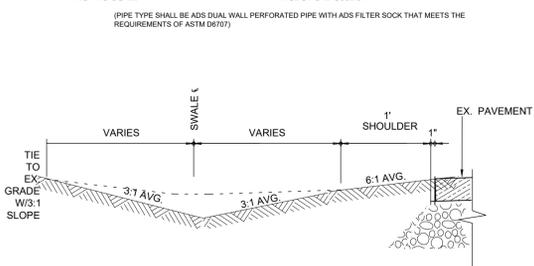
STATE OF NORTH CAROLINA  
DEPT. OF TRANSPORTATION  
DIVISION OF HIGHWAYS  
RALEIGH, N.C.

ENGLISH STANDARD DRAWING FOR  
**BRICK DROP INLET**  
12" THRU 30" PIPE

SHEET 1 OF 1  
**840.15**



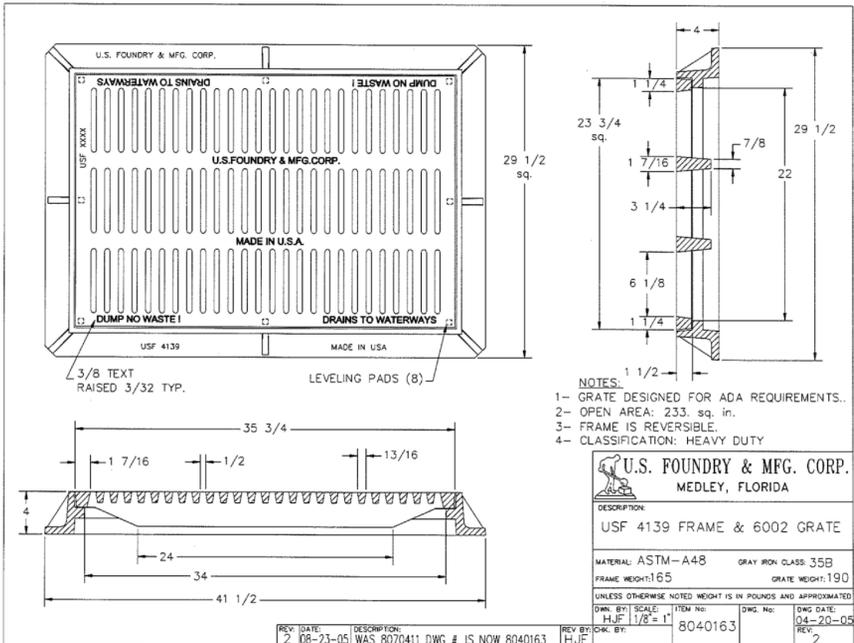
**STANDARD STORM PIPE INSTALLATION DETAIL**  
NOT TO SCALE NCDOT STD 300D01



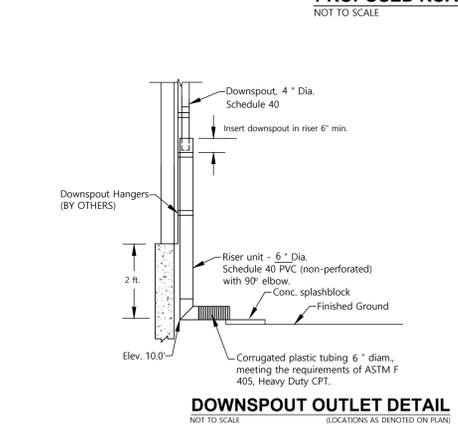
**PROPOSED ROADWAY SWALE CONSTRUCTION**  
NOT TO SCALE

COORDINATE W/ ENGINEER SHOULD LOCAL CONDITION PROHIBIT MIN/MAX. DEPTH TO BE MET.  
SWALE FLOWLINE SHALL ALIGN WITH DRIVEWAY FLOWLINE  
THIS SECTION APPLIES TO THE SWALE LENGTH ALONG THE EAST SIDE OF MEMORIAL AVE. AS DENOTED ON THE PLANS.

**NCDOT DROP INLET DETAIL**  
NOT TO SCALE LOCATION AS NOTED ON PLAN, PEDESTRIAN FRAME AND GRATE TO BE UTILIZED SEE DETAIL BELOW



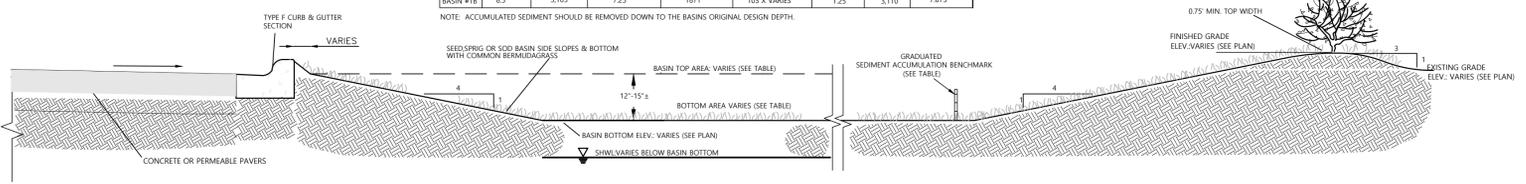
**PEDESTRIAN FRAME AND GRATE DETAIL**  
NOT TO SCALE LOCATION AS NOTED ON PLAN



**DOWNSPOUT OUTLET DETAIL**  
NOT TO SCALE (LOCATIONS AS DENOTED ON PLAN)

INFILTRATION BASIN TABLE								
BASIN ID.	DESIGN TOP (FMSL) DESIGN TOP AREA (S.F.)	DESIGN BOTTOM ELEV. (FMSL)	DESIGN BOTTOM AREA (S.F.)	BASIN BOTTOM DIMENSIONS (F.) LENGTH X WIDTH	DESIGN DEPTH (F.)	DESIGN STORAGE (CU.FT.)	SED. REMOVAL ELEV. (FMSL)	
BASIN #1A	8.5	1.558	7.5	292	147 X VARIES	1.0	925	7.875
BASIN #1B	8.3	3.105	7.25	1801	103 X VARIES	1.25	3,110	7.675

NOTE: ACCUMULATED SEDIMENT SHOULD BE REMOVED DOWN TO THE BASIN'S ORIGINAL DESIGN DEPTH.



**TYPICAL INFILTRATION BASIN SECTION**  
NOT TO SCALE LOCATION AS NOTED ON PLAN

NUM.	REVISION	DATE
1	ADDRESS TOWN TRC COMMENTS	5/18/24

PROJECT DEVELOPMENT SUMMARY:  
NOTE:  
THE INFORMATION DESCRIBED HEREON IS BELIEVED TO BE ACCURATE, COMPLETE, AND CURRENT. CES, PLLC MAKES NO WARRANTY AS TO THE ACCURACY, COMPLETENESS OR CURRENCY OF THE CONTENT. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THIS INFORMATION PRIOR TO RELYING ON IT. THE CONTENT OF THESE DOCUMENTS MAY INCLUDE TECHNICAL INACCURACIES OR TYPOGRAPHICAL ERRORS. IF SUCH CONDITIONS EXIST, THE CONTRACTOR SHALL CONSULT WITH THE ENGINEER PRIOR TO PROCEEDING WITH THE SCHEDULED WORK UNTIL AUTHORIZATION TO PROCEED HAS BEEN GRANTED.

**CREATIVE ENGINEERING SOLUTIONS**  
CREATIVE ENGINEERING SOLUTIONS, PLLC  
FIRM LICENSE: P-0970  
262 MOTHER VINEYARD RD.  
MANTEO, N.C. 27954  
david@creativeengineeringsox.com  
www.creativeengineeringsox.com  
TEL/FAX: 252-473-5586  
MOBILE: 252-475-0038

ENGINEER'S SEAL  
NORTH CAROLINA PROFESSIONAL SEAL 030406  
DAVID M. RYAN  
"final design- for review purposes only"

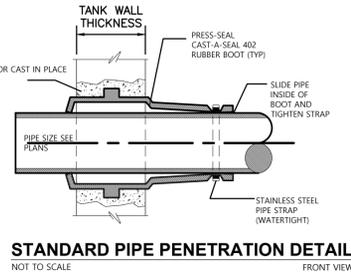
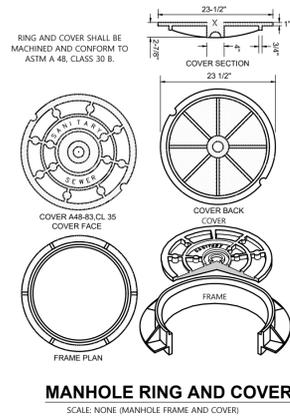
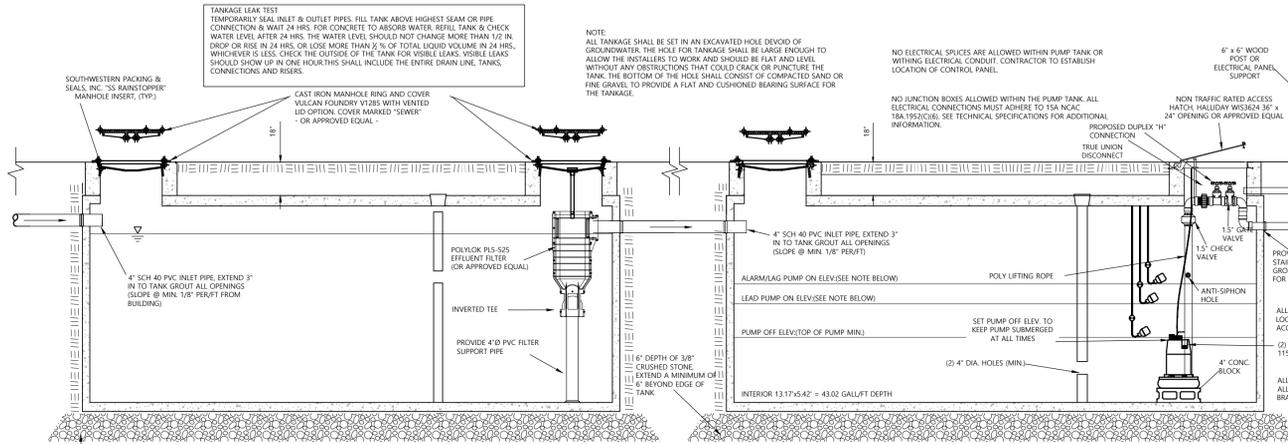
PROJECT NAME  
**LOT 1-R**  
KILL DEVIL HILLS REALTY CORP  
SUBDIVISION  
SAPLING LAND COMPANY, LLC  
KILL DEVIL HILLS TOWNSHIP,  
DARE COUNTY, NC

GRAPHIC SCALE:  
1" = 20'

DRAWING NUMBER  
**C7**

SHEET NUMBER  
**7 OF 8**

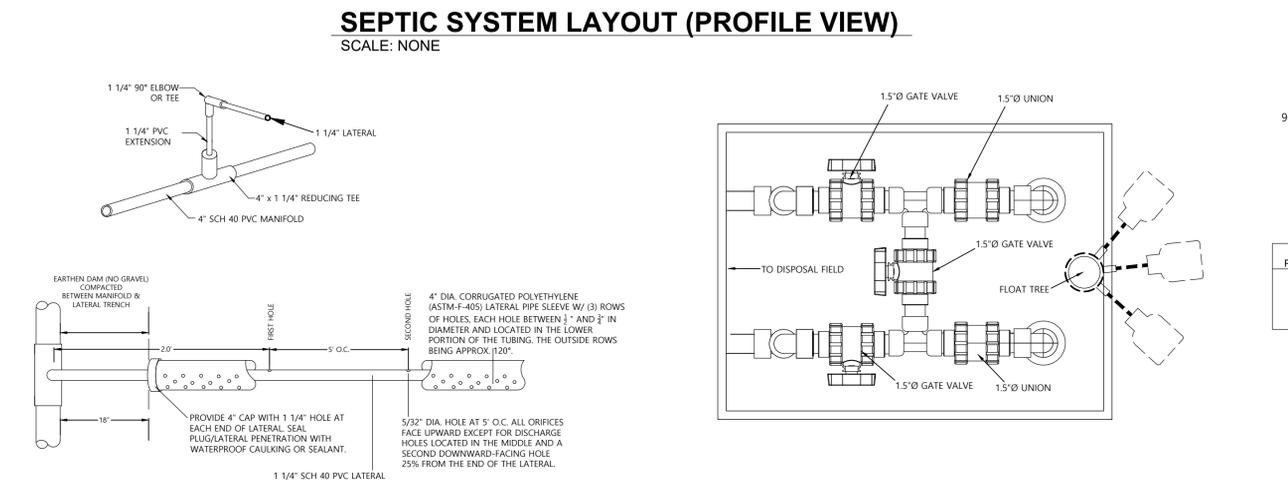
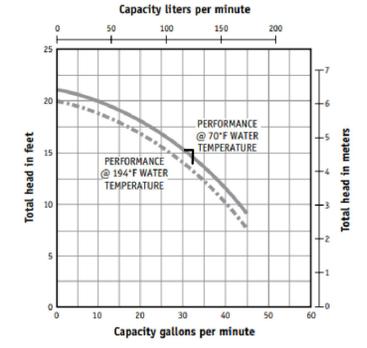
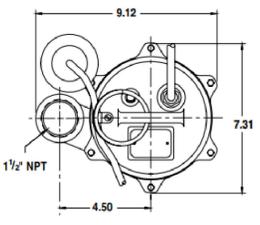
DRAWING TITLE  
**SITE CONSTRUCTION DETAILS**



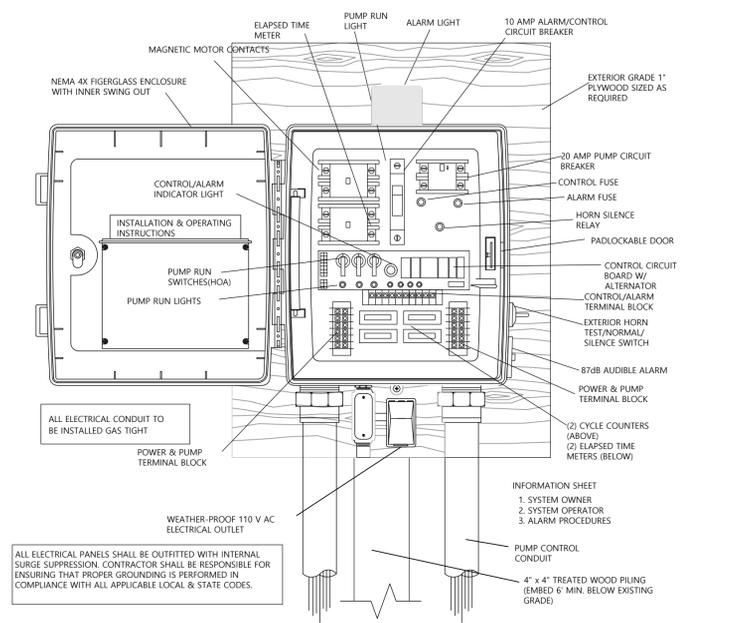
**NOTES**  
CONTRACTOR TO SUBMIT PRODUCT SPECIFICATION SHEETS TO ENGINEER AND SHALL REQUIRE WRITTEN APPROVAL PRIOR TO ORDERING EQUIPMENT AND CONTROLS. NO DEVIATIONS ARE PERMITTED UNLESS AUTHORIZED BY ENGINEER.



**SEPTIC TANK/PUMP TANK DETAILS**  
SCALE: NONE



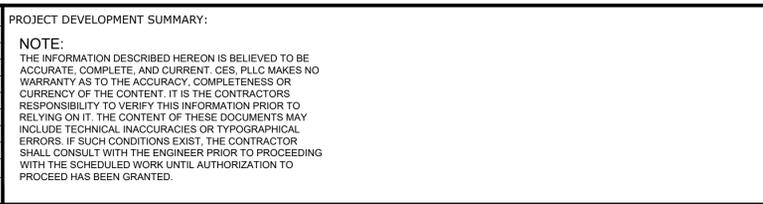
**PUMP DETAILS**  
SCALE: NONE



**ELECTRICAL PANEL BOARD**  
SCALE: NONE

DRAWING SCALE:	AS NOTED	
PROJECT NO.:	P1039	
DRAWING NO.:	P10390081-C3D	
DATE:	5-14-14	
DESIGNED:	DMR	
CHECKED:	DMR	
NUM.	REVISION	DATE

**DUPLIX CONTROL PANEL DETAILS**  
SCALE: NONE



**CREATIVE ENGINEERING SOLUTIONS**

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NORTH CAROLINA PROFESSIONAL SEAL 030406

DAVID W. RYAN

ENGINEER

"final design-for review purposes only"

**PROJECT NAME**

**LOT 1-R**

**KILL DEVIL HILLS REALTY CORP**

**SUBDIVISION**

**SAPLING LAND COMPANY, LLC**

KILL DEVIL HILLS TOWNSHIP, DARE COUNTY, NC

**DRAWING TITLE**

**WASTEWATER CONSTRUCTION DETAILS**

**DRAWING NUMBER**

**C8**

**SHEET NUMBER**

**8 OF 8**