CAMPUS ASPHALT PAVING 2024
LANDER UNIVERSITY
GREENWOOD, SOUTH CAROLINA

LOCATION MAP
NOT TO SCALE

UTILITY CONTACTS:

SEWER:
GREENWOOD METROPOLITAN DISTRICT
110 METRO DRIVE
GREENWOOD, SC 29646
(864) 943-8005

WATER:
GREENWOOD CPW
810 BY-PASS 225 SW
GREENWOOD, SC 29646
(864) 942-8183

STORM DRAINAGE:
GREENWOOD CITY/COUNTY
528 MONUMENT STREET ROOM B-02
GREENWOOD, SC 29646
(864) 942-8639

POWER:
GREENWOOD CPW
810 BY-PASS 225 SW
GREENWOOD, SC 29646
(864) 942-8100
OR
DUKE POWER
720 BY-PASS 72 NW
GREENWOOD, SC 29649
(864) 227-3868

GAS:
GREENWOOD CPW
810 BY-PASS 225 SW
GREENWOOD, SC 29646
(864) 942-8164

ROADWAY:
GREENWOOD CITY/COUNTY
528 MONUMENT STREET ROOM B-02
GREENWOOD, SC 29646
(864) 942-8639
OR
SCDOT
510 WEST ALEXANDER AVE
GREENWOOD, SC 29646
(864)227-6701

ENGINEER'S CONTACT INFORMATION:

HEANER DESIGN GROUP, LLC
DWIGHT E. 'CHIP' FUNDERBURK, II PE
PO BOX 50627
GREENWOOD, SC 29649
PHONE: (864) 223-1553
FAX: (864) 229-5000
E-MAIL: CHIP@HEANERGWD.COM

OWNER'S CONTACT INFORMATION:

LANDER UNIVERSITY
DIRECTOR OF ENGINEERING SERVICES
JEFF BEAVER
320 STANLEY AVENUE
GREENWOOD, SOUTH CAROLINA 29646
PHONE: (864) 378-5475
E-MAIL: JBEAVER@LANDER.EDU

UTILITIES PROTECTION CENTER
THREE WORKING DAYS BEFORE YOU DIG
SOUTH CAROLINA: 1-888-721-7877

UTILITY WARNING:
The underground utilities shown have been located from field survey information and existing drawings. The Surveyor makes no guarantee that the underground utilities shown comprise all such utilities in the area, either in service or abandoned. The surveyor further does not warrant that the underground utilities shown are in the exact location indicated although he does certify that they are located as accurately as possible from information available. The surveyor has not physically located the underground utilities.

WATER METER
FIRE HYDRANT
SANITARY SEWER MANHOLE
WATER VALVE
STORM SEWER
GAS LINE
OVERHEAD POWER LINE
SANITARY SEWER
10" WATER LINE
8" WATER LINE
2" WATER LINE
1½" WATER LINE
1" WATER LINE
¾" WATER LINE
OVERHEAD UTILITY LINES
UNDERGROUND POWER LINE
SIGN
GAS VALVE
GRATE INLET
CATCH BASIN
JUNCTION BOX
FIBER OPTIC LINE
SANITARY SEWER CLEANOUT
LIGHT POLE
GUARD POST
GAS MARKER
TELEPHONE PEDESTAL
BUILDING
CONCRETE
GRAVEL
VARIOUS TREES
POWER POLE
CHAIN LINK FENCE
COMMUNICATION MH
ELECTRICAL MH
FIBER OPTIC MARKER

LEGEND

Lander UNIVERSITY

DRAWING INDEX

CS	COVER SHEET
C1.0	SITE DETAILS
C2.0	ASPHALT REPAIR PLAN

PREPARED BY

HEANER DESIGN GROUP

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER No. 21601 DWIGHT EVANS FUNDERBURK II

SOUTH CAROLINA HEANER DESIGN GROUP, LLC No. C04159 CERTIFICATE OF AUTHORIZATION

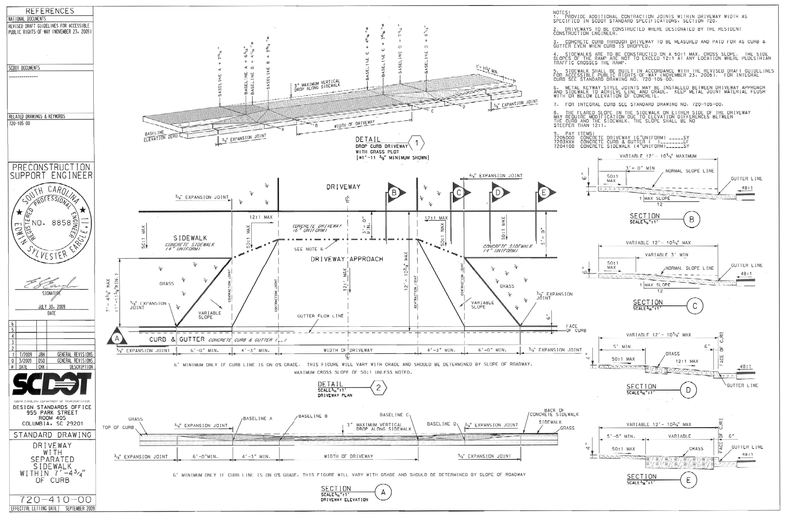
NOTES:

1. CONTRACTOR SHALL COORDINATE ALL WORK ASSOCIATED WITH THIS PROJECT WITH LANDER UNIVERSITY, JEFF BEAVER, DIRECTOR OF ENGINEERING SERVICES AT (864) 388-8208 PRIOR TO BEGINNING ANY WORK.
2. CALL SC811 FOR UTILITY LOCATION BEFORE BEGINNING CONSTRUCTION.
3. CONTRACTOR IS RESPONSIBLE FOR ENSURING POSITIVE DRAINAGE ON ALL WORK. POOLING OF RUNOFF WILL NOT BE ACCEPTED.
4. THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO THE EXISTING SIDEWALKS/PAVEMENTS/LANDSCAPING THAT ARE NOT WITHIN THE PROJECT AREA AT NO ADDITIONAL COST TO THE OWNER.
5. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FAMILIARIZE THEMSELVES WITH THE PROJECT SURROUNDINGS AND CONDITIONS PRIOR TO BIDDING THE PROJECT.
6. ANY WASTE MATERIAL REMOVED FROM THIS PROJECT SHALL BE PROPERLY DISPOSED OF OFF SITE.
7. CONTRACTOR IS RESPONSIBLE FOR OBTAINING ANY PERMITS AND LICENSES THAT MAY BE REQUIRED FOR THIS PROJECT.
8. CONTRACTOR IS RESPONSIBLE FOR DAMAGE TO ANY UTILITY LINES, IRRIGATION LINES, SPRINKLER HEADS, TELEPHONE LINES, COMMUNICATION LINES, ETC... AS PART OF THIS PROJECT AND THERE SHALL BE NO ADDITIONAL COSTS TO THE OWNER FOR SAID REPAIR.
9. THE CONTRACTOR IS RESPONSIBLE FOR SECURING THE PROJECT AREA DURING CONSTRUCTION AND AFTER HOURS.
10. THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING ALL EXISTING MANHOLE TOPS AND STORM DRAIN INLETS.
11. ANY REROUTING OF NORMAL TRAFFIC FLOW TO ACCOMMODATE CONSTRUCTION SHALL BE COORDINATED WITH LANDER UNIVERSITY.
12. THE CONTRACTOR WILL ADHERE TO THE WEIGHT LIMITS PRESCRIBED ON COUNTY AND STATE MAINTAINED ROADS FOR HAULING EQUIPMENT AND/OR MATERIALS TO AND FROM THIS SITE. THE CONTRACTOR WILL BE HELD RESPONSIBLE FOR ANY DAMAGES TO THE STREETS AND/OR UTILITIES DUE TO NON-COMPLIANCE OF WEIGHT LIMIT REGULATIONS.
13. THE EXISTENCE, ABSENCE, LOCATION, AND DEPTH OF UTILITIES AND UNDERGROUND ITEMS HAVE BEEN DETERMINED BY ORDINARY SURVEYING METHODS, FROM FIELD OBSERVATIONS, AND FROM INFORMATION PROVIDED BY THE UTILITY COMPANIES AND THE OWNER AND ARE NOT GUARANTEED.
14. CONTRACTOR IS RESPONSIBLE FOR REMOVING OR CLEANING OUT ANY SILT, DIRT, MUD OR ANY OTHER TYPE OF DEBRIS THAT COMES OFF THIS SITE AND FINDS ITS WAY ONTO PRIVATE OR COUNTY OWNED PROPERTIES TO INCLUDE RIGHT OF WAYS.
15. THE CONTRACTOR SHALL VERIFY THE LOCATION AND ELEVATIONS OF ALL EXISTING PIPES, UTILITIES AND STRUCTURES BEFORE BEGINNING CONSTRUCTION. CALL P.U.P.S. BEFORE DIGGING.
16. PARKING LOT BASE MATERIAL COMPACTED TO NO LESS THAN 95% OF MAXIMUM DENSITY. THE BASE SHALL SHOW NO MORE THAN $\frac{3}{4}$ " DEFLECTION OVER A TEN FOOT SPAN WHEN SUBJECTED TO A LOAD OF 18,000 POUNDS ON A SINGLE AXLE.
16. ALL WORK ADJACENT TO EXISTING ASPHALT SHALL MATCH THE GRADE AND HAVE A SMOOTH TRANSITION.
17. ALL WORKMANSHIP WILL CONFORM TO LANDER UNIVERSITY, CITY OF GREENWOOD, SCDHEC, SCDOT & OSHA STANDARDS, AND THE PROJECT PLANS.
18. ALL DISTURBED AREAS MUST BE STABILIZED UPON COMPLETION OF CONSTRUCTION.
19. PRIOR TO FILL OPERATIONS, ALL AREAS THAT ARE TO RECEIVE FILL SHALL BE PROOF-ROLLED WITH APPROPRIATE CONSTRUCTION EQUIPMENT APPROVED BY THE GEOTECHNICAL ENGINEER, AND ALL UNSTABLE MATERIAL SHALL BE REMOVED OR STABILIZED IN PLACE, AND THEN COMPACTED TO A MINIMUM OF 95% MAXIMUM DENSITY TO A MINIMUM DEPTH OF TWELVE (12) INCHES, AS DETERMINED BY ASTM D-698 (STANDARD PROCTOR) OR AS OTHERWISE DETERMINED BY THE GEOTECHNICAL ENGINEER. THESE TESTS WILL BE AT THE CONTRACTOR'S EXPENSE AND ARE THE CONTRACTOR'S RESPONSIBILITY.
20. CONTRACTOR IS RESPONSIBLE FOR ALL FIELD LOCATION OF PROPOSED DEVELOPMENT.
21. THE CONTRACTOR SHALL COORDINATE THE WORK OF THE UTILITY COMPANIES, AS NEEDED.
22. THE CONTRACTOR SHALL VERIFY THE LOCATIONS AND ELEVATIONS OF ALL EXISTING PIPES, UTILITIES, AND STRUCTURES BEFORE BEGINNING CONSTRUCTION. CALL SC811 BEFORE DIGGING.
    CONTRACTOR SHALL CONDUCT A PROOF-ROLL TEST ON THE SUBGRADE IN THE PRESENCE OF THE ENGINEER PRIOR TO INSTALLING ANY STONE BASE MATERIAL. IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE ENGINEER AT LEAST 48 HOURS IN ADVANCE OF THE PROOF-ROLL TEST.
23. SITE CONTRACTOR IS RESPONSIBLE FOR OBTAINING A COPY OF APPROVED SITE DRAWINGS FROM THE OWNER OR ENGINEER PRIOR TO BEGINNING ANY SITE WORK. A COPY OF THE APPROVED PLANS SHALL BE KEPT ONSITE DURING CONSTRUCTION.
24. ALL FILL MATERIAL PLACED IN AREAS SUBJECT TO VEHICULAR TRAFFIC SHALL BE COMPACTED TO 95% MAXIMUM DENSITY AT OPTIMUM MOISTURE CONTENT IN ACCORDANCE WITH ASTM D-698 (STD. PROCTOR TEST). ALL OTHER BACKFILL TO BE COMPACTED TO 90% OF MAXIMUM DENSITY.
25. ALL AREAS TO RECEIVE ASPHALT SEALANT SHALL BE PROPERLY CLEANED OF ANY DEBRIS OR SEDIMENT PRIOR TO APPLYING THE SEALANT.
26. ASPHALT SEALANT SHALL BE MASTERSEAL ASPHALT BASED PAVEMENT SEALER OR APPROVED EQUAL.
27. ASPHALT SEALANT SHALL BE APPLIED ACCORDING TO THE MANUFACTURER'S INSTRUCTION.
28. ALL TRAFFIC PAINT MARKINGS SHALL CONFORM TO MUTCD STANDARDS.
29. TRAFFIC MARKINGS SHALL BE BE HOTLINE FAST-DRY WATERBORNE PAINT BY SHERWIN WILLIAMS OR APPROVED EQUAL.
30. ASPHALT SEALANT SHALL BE ALLOWED TO CURE A MINIMUM OF 24 HOURS PRIOR TO STRIPING.
31. ASPHALT PAVEMENT SHALL BE ALLOWED TO CURE A MINIMUM OF 48-72 HOURS PRIOR TO ALLOWING ANY VEHICULAR TRAFFIC TO DRIVE ON THE SURFACE A MINIMUM OF 24 HOURS PRIOR TO STRIPING.

NO	REVISED	CHKD	DATE
1		DEFII	
2		DEFII	
3		DEFII	
4		DEFII	
5		DEFII	
6		DEFII	

DATE: MAY 30, 2024
HDG JOB #2024-026

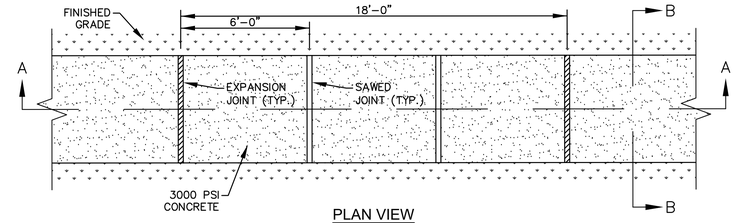
THESE DRAWINGS AND THE DESIGN THEREON ARE THE PROPERTY OF HEANER DESIGN GROUP AND MAY NOT BE USED IN WHOLE OR PART WITHOUT WRITTEN CONSENT OF HEANER DESIGN GROUP AND ANY INFRINGEMENT WILL BE SUBJECT TO LEGAL ACTION



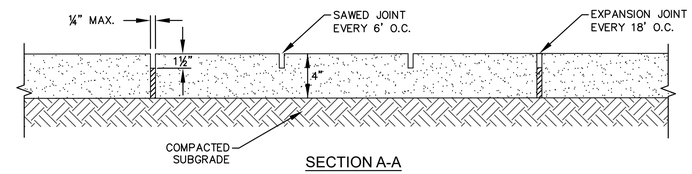
SEQUENCE OF CONSTRUCTION

1. PRE-CONSTRUCTION MEETING
2. NOTIFY LANDER UNIVERSITY AT LEAST 48 HOURS PRIOR TO BEGINNING WORK.
3. INSTALL PERMITER BMPs
4. SITE DEMOLITION
5. REPAIR BASE AND SUB-GRADE, AS NEEDED
6. INSTALL GRAVEL BASE
5. FINE GRADE SITE FOR PARKING AND DRIVEWAYS
6. INSTALL CURB & GUTTER, AND SIDEWALKS
7. INSTALL PAVEMENT
8. PARKING LOT STRIPING
6. PERMANENT/FINAL STABILIZATION
7. REMOVAL OF TEMPORARY SEDIMENT & EROSION CONTROL MEASURES AFTER ENTIRE AREA IS STABILIZED.
8. PROJECT CLOSEOUT

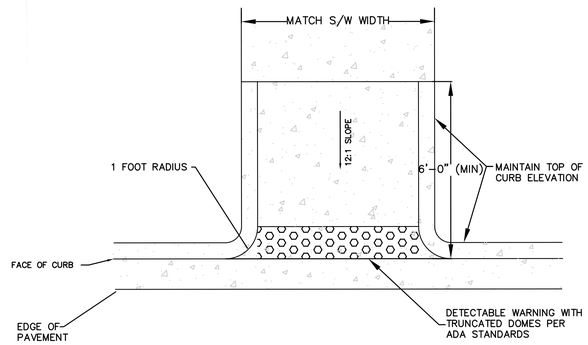
- NOTE: MAINTENANCE OF SEDIMENT AND EROSION CONTROL MEASURES MUST CONTINUE UNTIL THE SITE IS PERMANENTLY STABILIZED AND CONTROLS ARE REMOVED.



PLAN VIEW

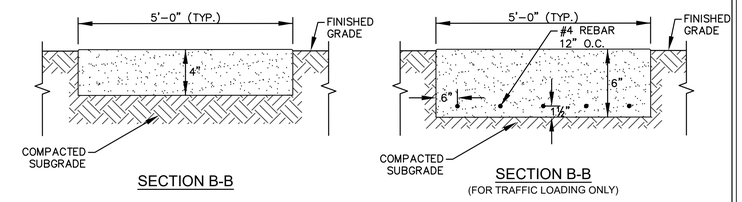


SECTION A-A



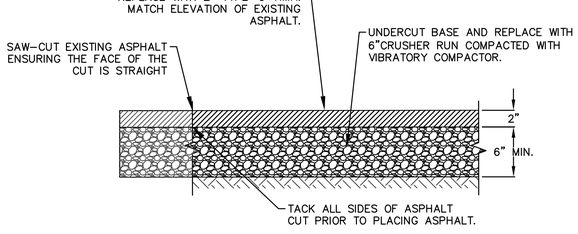
ADA ACCESS RAMP

NOT TO SCALE



SIDEWALK DETAIL

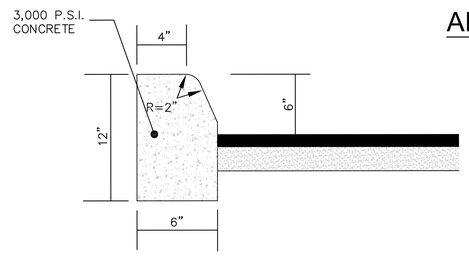
NOT TO SCALE



NOTE:
IF SOFT SUBGRADE MATERIAL IS ENCOUNTERED UNDERCUT 6" AND BACKFILL WITH 6" CRUSHER RUN, COMPACT WITH VIBRATORY COMPACTOR.

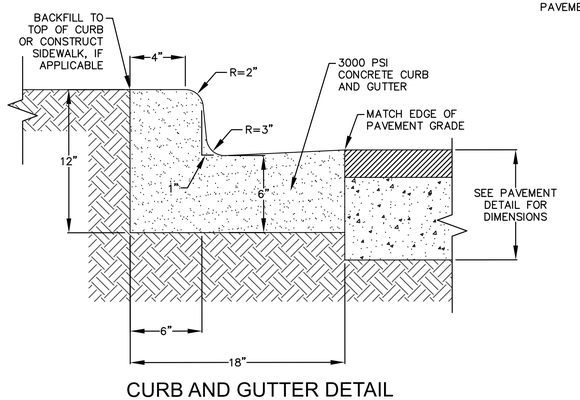
ASPHALT PATCH DETAIL

NOT TO SCALE



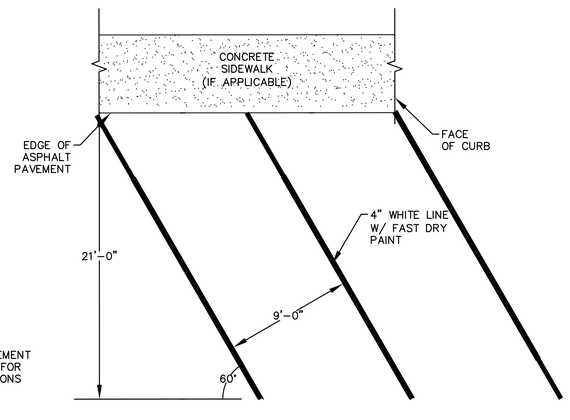
CONCRETE HEADER CURB

NOT TO SCALE



CURB AND GUTTER DETAIL

NOT TO SCALE

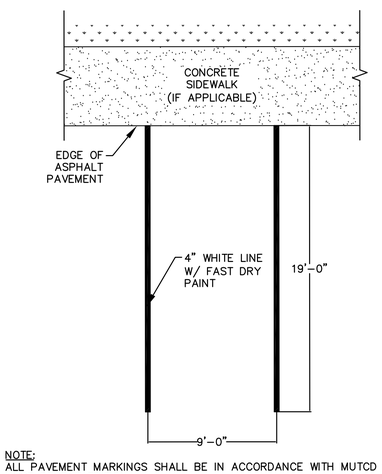


NOTE:
ALL PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH MUTCD STANDARD, MOST RECENT EDITION.

VERIFY DIMENSIONS OF PARKING SPACES WITH SITE PLANS AS THERE ARE POSSIBLY DIFFERENT DIMENSIONS FOR THE PARKING LOTS.

TYPICAL 60° PARKING SPACE STRIPING DETAIL

NOT TO SCALE

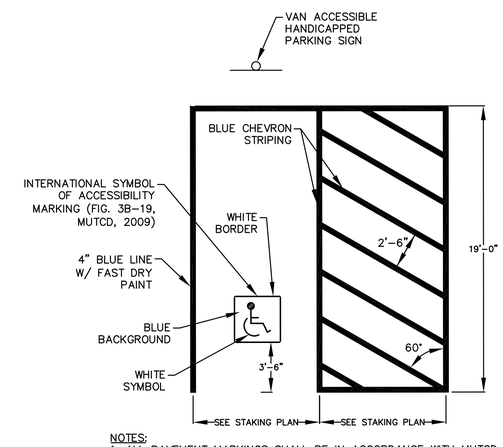


NOTE:
ALL PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH MUTCD STANDARD, MOST RECENT EDITION.

VERIFY DIMENSIONS OF PARKING SPACES WITH SITE PLANS AS THERE ARE POSSIBLY DIFFERENT DIMENSIONS FOR THE PARKING LOTS.

TYPICAL PARKING SPACE STRIPING DETAIL

NOT TO SCALE



NOTES:
1. ALL PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH MUTCD & ADA STANDARDS, MOST RECENT EDITION.

2. IF MULTIPLE HANDICAPPED SPACES ARE REQUIRED AND ARE ADJACENT TO EACH OTHER, THE SIDEWALK RAMPS SHALL BE INSTALLED AT EITHER END OF THE SPACES. SEE SITE PLAN.

3. PAVEMENT MARKINGS SHALL BE PAINTED WITH HOTLINE WATERBORNE TRAFFIC MARKING PAINT BY SHERWIN WILLIAMS OR APPROVED EQUAL.

4. PAINT SHALL BE APPLIED IN TWO COATS WITH 15 MIL MINIMUM DRY FILM THICKNESS.

HANDICAPPED PARKING SPACE DETAIL

NOT TO SCALE

HEANER DESIGN GROUP
420 WEST CAMBRIDGE AVENUE • P.O. BOX 50627
GREENWOOD, SOUTH CAROLINA 29649
PHONE: (864)223-1553 • WWW.HEANERGWD.COM

SITE NOTES/DETAILS
2024 CAMPUS PARKING IMPROVEMENTS
FOR
LANDER UNIVERSITY
GRENWOOD, SOUTH CAROLINA

SITE NOTES / DETAILS

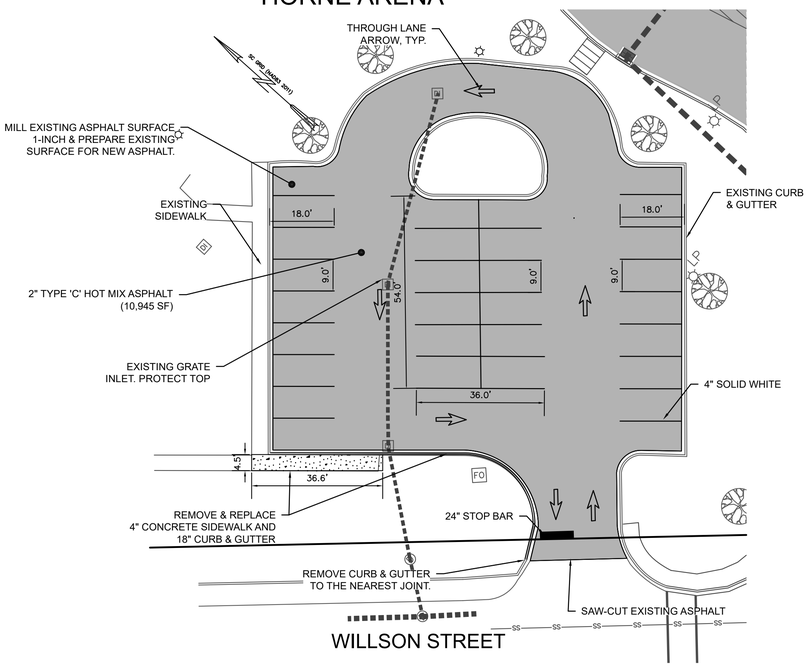
NO.	REVISED	CHKD	DATE

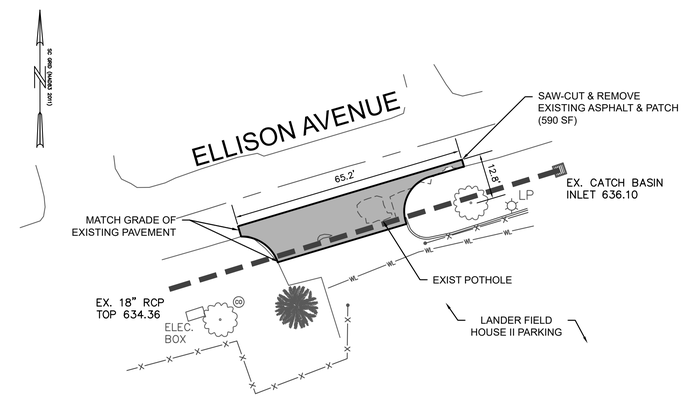
DESIGNED BY: DEFII
DRAWN: DEFII
CHECKED: DEFII
APPROVED: DEFII
JOB NUMBER: 2024-026
DATE: 5/31/24

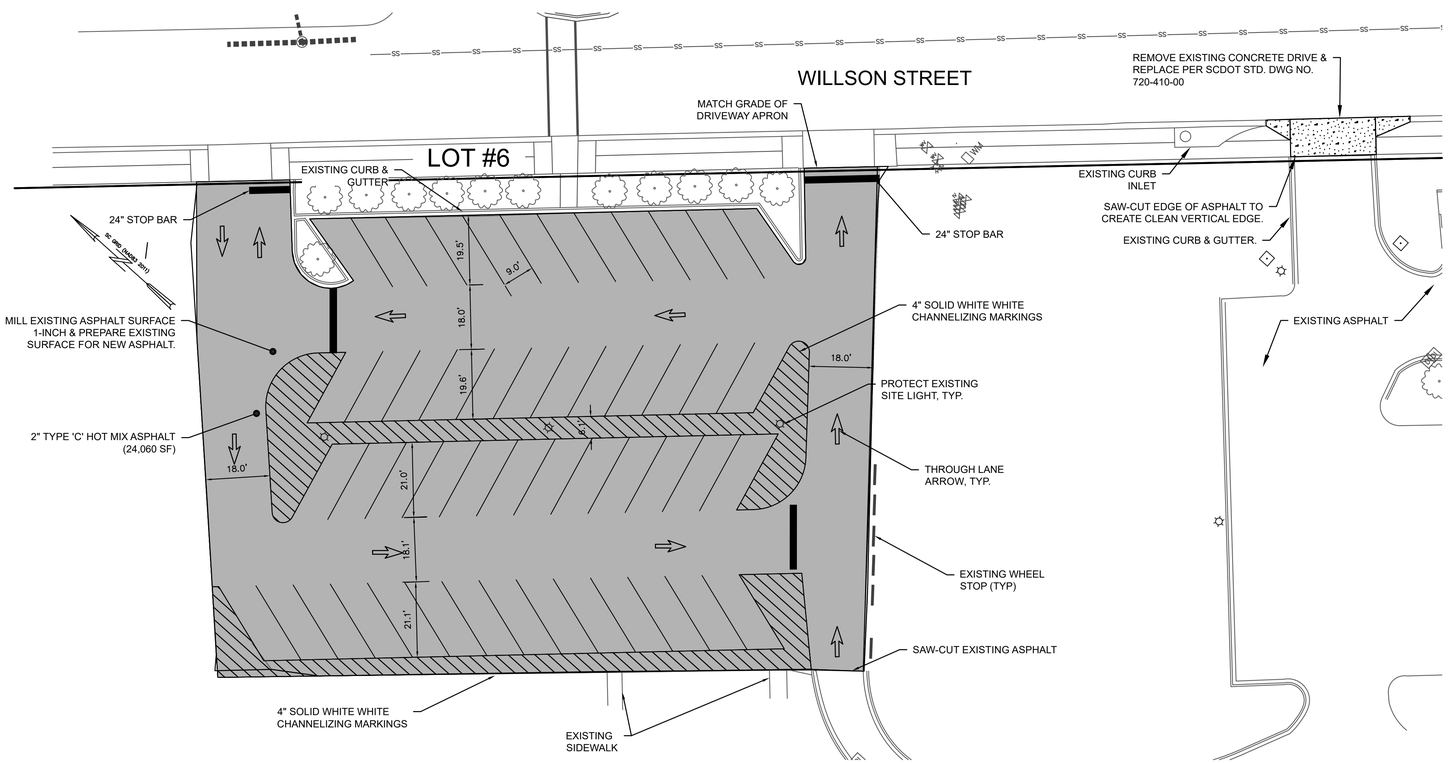
SHEET
C1.0

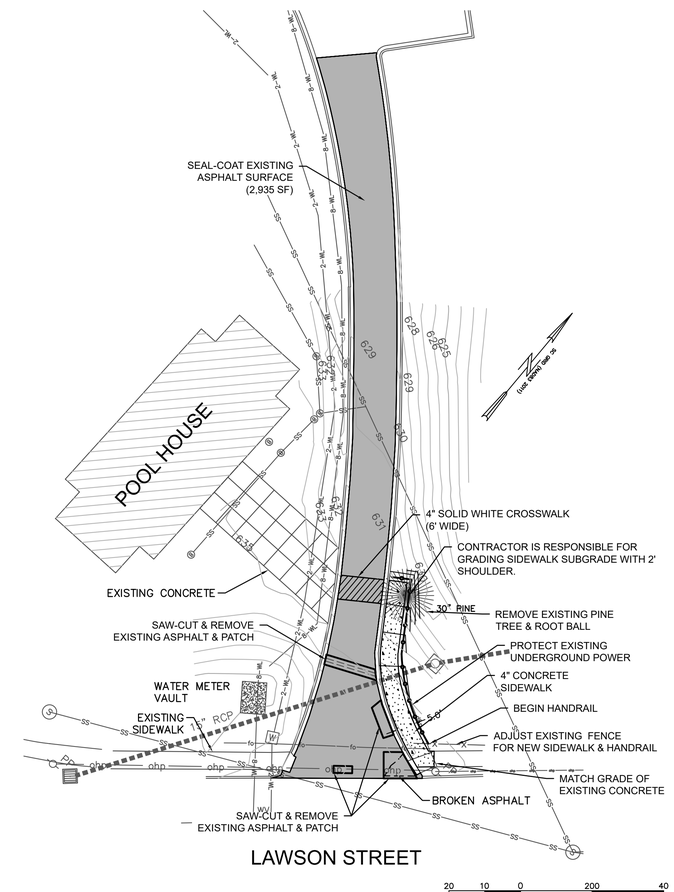
THESE DRAWINGS AND THE DESIGN THEREON ARE THE PROPERTY OF HEANER DESIGN GROUP AND MAY NOT BE USED IN WHOLE OR PART WITHOUT WRITTEN CONSENT OF HEANER DESIGN GROUP AND ANY INFRINGEMENT WILL BE SUBJECT TO LEGAL ACTION

HORNE ARENA









SOUTH CAROLINA HEANER DESIGN GROUP, LLC No. C04159 CERTIFICATE OF AUTHORITY NO. 1 V 2 1

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER No. 21601 DWIGHT EVANS FINNEY

HEANER DESIGN GROUP
420 WEST CAMBRIDGE AVENUE • P.O. BOX 50627
GREENWOOD, SOUTH CAROLINA 29649
PHONE: (864)223-1555 • WWW.HEANERGWD.COM

SITE PLAN
2024 CAMPUS PARKING IMPROVEMENTS
FOR
LANDER UNIVERSITY
GRENWOOD, SOUTH CAROLINA

CIVIL

PARKING LOT REPAIR

NO.	REVISED	CHKD	DATE

DESIGNED BY: DEFIII
DRAWN: DEFIII
CHECKED: DEFIII
APPROVED: DEFIII
JOB NUMBER: 2024-0420
DATE: 5/31/24

SHEET
C2.0