

GENERAL NOTES

GENERAL NOTES (APPLY TO ALL CIVIL WORK):

- 1. FIELD VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS PRIOR TO THE BEGINNING OF DEMOLITION AND/OR CONSTRUCTION.
2. CONTRACTOR SHALL VERIFY LOCATION AND DEPTH OF ALL EXISTING UNDERGROUND UTILITIES PRIOR TO THE BEGINNING OF DEMOLITION AND/OR CONSTRUCTION.
3. PROTECT ALL EXISTING UTILITIES AND CONSTRUCTION TO REMAIN DURING ALL CONSTRUCTION ACTIVITIES.
4. ALL EXISTING SURFACES TO REMAIN OR NEW WORK THAT IS DAMAGED DURING DEMOLITION OR CONSTRUCTION ACTIVITIES SHALL BE REPAIRED TO MATCH EXISTING ADJACENT SURFACES.
5. BEFORE YOU DIG, STOP. CALL THE NC ONE-CALL CENTER AT 811.
6. NO SOIL DISTURBANCE OR COMPACTION, STOCK PILING OF SOIL OR OTHER CONSTRUCTION MATERIALS, VEHICLE TRAFFIC, OR PARKING OR STORAGE OF HEAVY EQUIPMENT ARE ALLOWED WITHIN THE CRITICAL ROOT ZONE OF PROTECTED TREES. NO WORK SHALL BEGIN UNTIL TREE PROTECTION BARRICADES HAVE BEEN INSTALLED, BARRICADES TO REMAIN UNTIL AFTER ALL DEVELOPMENT ACTIVITIES ARE COMPLETED.
7. STORM DRAINAGE STRUCTURES AND SANITARY SEWER MANHOLE COORDINATES ARE LOCATED AT CENTER OF GRATE OR MANHOLE. ALL LINEAR FOOTAGE OF ALL UTILITY PIPES ARE APPROXIMATE. ACTUAL INSTALLED QUANTITIES MAY VARY. PIPE LENGTHS PROVIDED ARE HORIZONTAL MEASUREMENTS FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE. PIPE LENGTHS THAT TERMINATE WITH A FLARED END SECTION INCLUDE THE LENGTH OF THE FLARED END SECTION.
8. CONTRACTOR SHALL NOTIFY AND COOPERATE WITH ALL UTILITY COMPANIES OR FIRMS HAVING FACILITIES ON OR ADJACENT TO THE WORK SITE BEFORE DISTURBING, ALTERING, REMOVING, RELOCATING, ADJUSTING OR CONNECTING TO SAID FACILITIES. CONTRACTOR SHALL RAISE OR LOWER TOPS OF EXISTING UTILITY LINES, DRAINAGE GRATES, VALVE BOXES, VALVE LIDS, ETC. AS REQUIRED TO MATCH FINISHED GRADES. AGENTS INSTALLING ALL OTHER UTILITIES SHALL BE RESPONSIBLE FOR MATCHING FINISH GRADE WITH ANY NEW SURFACE STRUCTURE OR SURFACE ACCESS SERVING THEIR INSTALLED FACILITIES.
9. CONTRACTOR SHALL COORDINATE ALL WORK WITH OTHER UTILITY INSTALLATIONS NOT COVERED UNDER THESE CIVIL PLANS (ELECTRIC, TELEPHONE, GAS, STEAM, CABLE, ETC.) AND ALLOW FOR THEIR OPERATIONS AND CONSTRUCTION TO PROCEED UNIMPACTED. ALL PLANNED AND EXISTING UTILITIES ROUTINGS AND DEPTHS SHALL BE COORDINATED PRIOR TO ANY INSTALLATIONS.
10. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH NCDOT, NCDENR, AND LOCAL STANDARDS. REVISIONS AND LOCAL STANDARDS ARE IN CONFLICT, THE STRICTER SPECIFICATION SHALL BE HELD.
11. RIM ELEVATIONS GIVEN ON THESE PLANS ARE APPROXIMATE AND ARE FOR INFORMATIONAL PURPOSES ONLY. ACTUAL RIM ELEVATIONS SHALL BE ADJUSTED BY CONTRACTOR TO MATCH FIELD CONDITIONS. THE TOP 12" OF ALL NEW CONCRETE STRUCTURES SHALL BE BRICK CONSTRUCTION OR OBTAINED WITH PRECAST GRADE RINGS TO ALLOW FOR ADJUSTMENT AS NECESSARY. STRUCTURES SHALL BE ADJUSTABLE +/- 12" FROM THE RIM ELEVATION PROVIDED AT NO ADDITIONAL COST TO THE OWNER.
12. ALL SHORING SHALL BE IN ACCORDANCE WITH OSHA TRENCHING STANDARDS, PART 1926 SUBPART F, AS AMENDED.

GRADING AND DRAINAGE NOTES CONTINUED:

- 3. ALL MATERIAL TYPES OF ALL PROPOSED STORM DRAINAGE PIPE SHALL BE PROPERLY IDENTIFIED AND LOCAL UTILITY PROVIDER'S STANDARDS AND SPECIFICATIONS.
4. NEW EARTHWORK SHALL BE BLENDED SMOOTHLY TO THE INTO EXISTING GRADE.
5. ALL NEW PAVEMENT AREAS SHALL HAVE POSITIVE DRAINAGE SUCH THAT ALL RUNOFF WILL DRAIN ACROSS PAVEMENT TO NEW OR EXISTING DRAINAGE FEATURES OR STREET FLOW OVERLAND.
6. REFER TO STRUCTURAL AND ARCHITECTURAL DRAWINGS FOR BUILDING AND FOUNDATION DRAIN LOCATIONS, PIPE SIZES, AND MATERIALS. REFER TO CIVIL PLANS FOR EXTENSION OF FOUNDATION DRAIN LINES FROM WALL TO OUTFALL LOCATION. ALL FOUNDATION DRAIN LINES WHICH CONNECT TO THE PROPOSED STORMWATER SYSTEM RATHER THAN DISCHARGING TO GRADE SHALL HAVE A BACKWATER VALVE AT THE TIE-IN LOCATION. A TERMINAL TYPE BACKWATER VALVE SHALL BE INSTALLED AT CATCH BASINS AND MANHOLES. SEE DETAIL C3-C-000.
7. ANY PROPOSED GRASSES (SEEDS OR SODS), MULCHED OR PLANTING AREA SHALL BE LEFT 4" BELOW FINISHED GRADES SHOWN. THE FINAL 4" IN ALL DISTURBED AREAS SHALL BE A 4" LAYER OF TOPSOIL. BEFORE PLACING THE TOPSOIL, THE TOP 6" OF THE SUBGRADE SHALL BE UNCOVERED WITH ALL STONE AND CONSTRUCTION DEBRIS REMOVED. WORK THE FIRST 2" OF TOPSOIL INTO THE TOP 4" OF LOOSEND SUBGRADE BEFORE SPREADING THE FINAL 2" OF TOPSOIL. IF TOPSOIL SECTION IS INDICATED AS OTHER THAN 4" ON LANDSCAPE PLANS, FOLLOW LANDSCAPE PLANS.
8. ALL DRAINAGE STRUCTURES SHALL BE GROUDED TO THE INVERT OF THE OUTFLOW PIPE TO ELIMINATE ANY SUMP CONDITION. ALL PIPE PENETRATIONS SHALL BE FLUSH WITH THE STRUCTURE WALL AND GROUDED.
9. DRAINAGE STRUCTURE ORIENTATION SHALL BE AS SHOWN ON THE DRAWINGS. GRATES ARE TYPICALLY SHOWN SET SQUARE TO THE ADJACENT WALK EDGE, WALK EDGE, OR CURB LINE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESETTING THE DRAINAGE STRUCTURE AT NO ADDITIONAL COST TO THE OWNER IF SHOWN ORIENTATIONS ARE NOT OBTAINED.
10. ALL ROOF LEADERS TO BE EITHER SCH. 40 PVC SMOOTH WALL HDPE OR DUCTILE IRON PIPE. ALL ROOF LEADERS SHALL HAVE A 3% MINIMUM SLOPE AND MAINTAIN A 24" MIN. COVER (18" MIN. IN NON-VEHICULAR AREAS WITH SCH. 80 PVC OR DUCTILE IRON, AND 48" MIN. FOR PVC WITH VEHICULAR AREAS). REFER TO DETAIL C3-C-061 FOR CLEANOUTS. ALL ROOF LEADERS SHALL CONNECT TO MAIN LINES WITH WYE FITTINGS.
11. STORM DRAINAGE PIPING: IF NOTED AS OPTIONAL, THE CONTRACTOR MAY PROVIDE EITHER 8" RCP OR SMOOTH WALL HDPE. INSTALL HDPE AS PER MANUFACTURER'S RECOMMENDATIONS. BEDDING SHALL BE PER DETAIL C3-C-060 FOR ALL STORM DRAINAGE PIPE. ALL PIPE DEEPER THAN 10' SHALL BE CLASS III RCP IF NOT NOTED AS OPTIONAL. CONTRACTOR MUST PROVIDE THE MATERIAL CALLED OUT ON THE PLANS.
12. ALL SLOPES 6:1 AND GREATER AND ALL GRASSED CHANNELS AND SWALES SHALL BE STABILIZED WITH TEMPORARY EROSION CONTROL SYSTEMS. REFER TO DETAIL C2-C-000 FOR INSTALLATION. ADDITIONALLY, A 6" DIAMETER STRAW WATTLE SHALL BE STAKED ALONG THE CONTOUR OF THE SLOPE BEGINNING AT THE TOP OF SLOPE AND VERTICALLY SPACED AS REQUIRED. REFER TO DETAIL C2-C-060.
13. DRAINAGE GRATES ARE TO BE PROTECTED DURING CONSTRUCTION CONTRACTOR SHALL PREVENT CONCRETE SPLASH PAINT, OR OTHER DAMAGE FROM OCCURRING OR RESTORE/REPAIR AT COMPLETION OF PROJECT.
14. THE RIM AND ELEVATIONS PROVIDED REFER ONLY TO THE GRADE ELEVATION AT THE WALL, REFER TO ARCH. AND STRUCT. PLANS OR SEGMENTAL WALL SHOP DRAWINGS FOR TOTAL WALL HEIGHT ABOVE GRADE FOR PARAPETS, CAPS, SEAT WALL, AND SCREEN WALL SECTION.
15. ALL SPOT ELEVATIONS SHOWN WITHIN PAVED AREAS AND ALONG CURBS REPRESENT TOP OF PAVEMENT (TP) OR BOTTOM OF CURB (BC) UNLESS OTHERWISE INDICATED.

UTILITY NOTES:

- 1. ALL WATER AND SEWER WORK TO BE PERFORMED IN ACCORDANCE WITH NC DCO AND LOCAL UTILITY PROVIDER'S STANDARDS AND SPECIFICATIONS.
2. REQUIRED WATER/SEWER SEPARATION: 10' LATERAL, UNLESS BOTTOM OF WATER MAIN > 18" ABOVE TOP OF SEWER IN A SEPARATE TRENCH. WHEN THESE SEPARATIONS CANNOT BE MAINTAINED OR WHEN THE SEWER IS ABOVE THE WATER MAIN, BOTH THE WATER AND SEWER LINES SHALL BE CONSTRUCTED OF FERROUS MATERIALS WITH JOINTS EQUIVALENT TO WATER MAIN STANDARDS FOR A MINIMUM LATERAL DISTANCE OF 10 FT ON EACH SIDE OF THE CROSSING.
3. REQUIRED SEWER SEPARATION WITH OTHER UTILITIES: SEWER BELOW UTILITY: 24" CLEAR WITH STONE BEDDING FROM 6" BELOW SEWER TO 12" ABOVE SEWER. SEWER ABOVE UTILITY: 12" CLEAR. CLEARANCES MEASURED AS NOTED FOR WATER CONFLICTS. WHEN THESE SEPARATIONS CANNOT BE MAINTAINED, THE SEWER LINE SHALL BE CONSTRUCTED OF FERROUS MATERIAL WITH JOINTS EQUIVALENT TO WATER MAIN STANDARDS FOR A MINIMUM LATERAL DISTANCE OF 10 FT ON EACH SIDE OF THE CROSSING.
4. REQUIRED SEWER SEPARATION WITH OTHER UTILITIES: SEWER BELOW UTILITY: 24" CLEAR WITH STONE BEDDING FROM 6" BELOW SEWER TO 12" ABOVE SEWER. SEWER ABOVE UTILITY: 12" CLEAR. CLEARANCES MEASURED AS NOTED FOR WATER CONFLICTS. WHEN THESE SEPARATIONS CANNOT BE MAINTAINED, THE SEWER LINE SHALL BE CONSTRUCTED OF FERROUS MATERIAL WITH JOINTS EQUIVALENT TO WATER MAIN STANDARDS FOR A MINIMUM LATERAL DISTANCE OF 10 FT ON EACH SIDE OF THE CROSSING.
5. THERE SHALL BE NO TAPS, PIPING, BRANCHES, UNAPPROVED BYPASS PIPING, HYDRANTS, FIRE DEPARTMENT CONNECTION POINTS, OR OTHER WATER-USING APPURTENANCES CONNECTED ON THE SUPPLY SIDE OF THE EXISTING 8" DOUBLE CHECK VALVE BACKFLOW PREVENTER.
6. EACH NEW SPS IS REQUIRED TO BE TESTED BY A CERTIFIED TESTER IN ACCORDANCE WITH THE LOCAL AUTHORITY PRIOR TO PLACING THE WATER SYSTEM IN SERVICE.
7. REFER TO LANDSCAPE PLANS FOR ALL PROPOSED SCREENING OF ABOVE GROUND BACKFLOW PREVENTERS.
8. ALL SANITARY SEWER LATERALS SHALL MAINTAIN A MIN. COVER OF 36" WITH CLEANOUTS AT 75' MAX. SPACING. MAINTAIN A MINIMUM SLOPE = 10%. CLEANOUTS IN PAVED AREAS SHALL BE TRAFFIC BEARING CLEANOUTS. CLEANOUTS WITHIN UNIT PAVEMENT AREAS SHALL HAVE BRASS CAPS. SEE DETAIL C3-C-061.
9. ALL SANITARY SEWER PIPE SHALL BE BEDDED IN ACCORDANCE WITH DETAIL C3-C-060.
10. ALL SEWER SERVICE LINES EXTENDED TO BUILDINGS SHALL TERMINATE WITH A CLEANOUT FROM THE FACE OF THE BUILDING. THE PLUMBING CONTRACTOR SHALL MAKE THE CONNECTIONS.
11. DASHED WATER AND SEWER LINES REPRESENT LINES AND CONNECTIONS TO BE INSTALLED BY THE PLUMBING CONTRACTOR.
12. ALL BENDS AND INTERSECTIONS IN WATER LINES SHALL HAVE CONCRETE BLOCKING IN ACCORDANCE WITH DETAIL D2-C-061.
13. ALL NEW UNDERGROUND UTILITY LINES INCLUDING LAWN IRRIGATION LINES, THAT ARE LOCATED OUTSIDE OF THE BUILDING FOOTPRINT ARE REQUIRED TO HAVE A CONTINUOUS WARNING TAPE INSTALLED IN THE BACKFILL DIRECTLY OVER THE UTILITY LINE 6" TO 24" BELOW FINISHED GRADE AND 6" BELOW SUBGRADE UNDER PAVEMENT SECTIONS. REFER TO SPECIFICATIONS DIVISION 31 FOR WARNING TAPE REQUIREMENTS.
14. METALIC AND NON-METALIC PIPES, OTHER THAN GAS LINES, SHALL BE IDENTIFIED BY DETECTABLE MAGNETIC TYPE WARNING TAPE, MIN. 2" WIDE, WITH LETTERING TO IDENTIFY BURIED LINE BELOW.
15. 2012 NFPA GAS CODE SECTION 404.15.3 TRACER: A YELLOW INSULATED COPPER TRACER OR OTHER APPROVED CONDUCTIVE TRACER SHALL BE INSTALLED ADJACENT TO UNDERGROUND NON-METALIC PIPING. ACCESS SHALL BE PROVIDED TO THE TRACER WIRE OR THE TRACER WIRE SHALL TERMINATE ABOVE GROUND AT THE END OF THE NON-METALIC PIPING. THE TRACER WIRE SIZE SHALL NOT BE LESS THAN 18 AWG AND THE INSULATION TYPE SHALL BE SUITABLE FOR DIRECT BURIAL.
16. ALL VALVE BOXES WITHIN YARD AREAS SHALL BE FLUSH WITH FINISHED GRADE AND PROTECTED WITH A PRECAST CONCRETE DOWNT. REFER TO DETAIL D1-C-061.
17. ALL UNDERGROUND UTILITIES, INCLUDING IRRIGATION AND METALIC PIPE SHALL HAVE TRACER WIRE INSTALLED CONTINUOUSLY ALONG THE BOTTOM OF THE PIPE (TAPED) AT 10' MAXIMUM INTERVALS. TRACER WIRE SHALL BE BROUGHT UP AT ALL VALVES, MANHOLES, VALVE BOXES, FIRE HYDRANTS, FREE STANDING FDS, ETC. AS SHOWN IN DETAIL C2-C-061.
18. ALL NEW WATER VALVES SHALL BE CLOCKWISE TO CLOSE.
19. THE MINIMUM BURIAL DEPTH FOR ALL NEW WATER AND SEWER LINES SHOWN ON THIS SHEET SHALL BE THREE FEET. PVC LINES BENEATH VEHICULAR DRIVES, ROADS, PARKING, ETC. SHALL HAVE A MINIMUM BURIAL DEPTH OF 4'.
20. 2012 NFPA GAS CODE SECTION 404.15.3 TRACER: A YELLOW INSULATED COPPER TRACER OR OTHER APPROVED CONDUCTIVE TRACER SHALL BE INSTALLED ADJACENT TO UNDERGROUND NON-METALIC PIPING. ACCESS SHALL BE PROVIDED TO THE TRACER WIRE OR THE TRACER WIRE SHALL TERMINATE ABOVE GROUND AT THE END OF THE NON-METALIC PIPING. THE TRACER WIRE SIZE SHALL NOT BE LESS THAN 18 AWG AND THE INSULATION TYPE SHALL BE SUITABLE FOR DIRECT BURIAL.

PAVEMENT MARKING AND SIGNAGE NOTES:

- 1. ALL PROPOSED SIGNS SHOWN ON THESE PLANS ARE TO BE INSTALLED BY THE CONTRACTOR.
2. ALL EXISTING SIGNS REMOVED DURING PROJECT DEMOLITION, OR FOR REASONS OF CONFLICT, REGARDLESS OF INCLUSION ON SURVEY OR THIS PLAN, ARE TO BE REINSTALLED IN A CLOSE ALTERNATE LOCATION AS COORDINATED WITH THE CAMPUS WITH NEW SIGN POSTS AND MOUNTING HARDWARE.
3. ALL NEW SIGNS SHALL HAVE HIGH INTENSITY PRISMATIC SHEETING THAT MEETS THE MINIMUM RETROREFLECTIVITY STANDARDS FOUND IN THE LATEST EDITION OF THE MUTCD.
4. ALL SIGNS SHALL BE INSTALLED WITH NEW POSTS AND HARDWARE PER DETAIL B1-C-061.
5. THE LATERAL OFFSET OF ALL ROADWAY SIGNS FROM FACE OF CURB TO THE EDGE OF THE SIGN SHALL BE BETWEEN 2' AND 5' (USE 3' UNLESS OBSTRUCTED), FOR AREAS WHERE THERE IS A SIDEWALK ADJACENT TO THE CURB, SET THE POST CLOSE TO THE CURB, PROVIDING A 1' LATERAL OFFSET FROM FACE OF CURB TO EDGE OF SIGN.
6. ALL PAVEMENT MARKINGS SHALL CONFORM TO ALL CURRENT MUTCD STANDARDS.
7. ALL PAVEMENT MARKINGS SHALL BE 2" COATS OF PIGT. ADDITIONALLY, ANY PROPOSED CROSS WALK OR STOP MARKINGS SHALL BE REFLECTORIZED WITH GLASS BEADS TO CONFORM TO MUTCD PAVEMENT MARKING STDS.
8. CONTRACTOR SHALL MILL ANY EXISTING MARKINGS TO BE REMOVED WHERE THE PAVEMENT SURFACE WILL BE LEFT IN CONTACT WITH MARKINGS IN CONFLICT WITH PROPOSED MARKINGS. SUCH AREAS SHALL BE MILL.
9. CONTRACTOR SHALL THE PROPOSED MARKINGS TO EXISTING MARKINGS AT PROJECT LIMITS.
10. ANY PROPOSED WHITE PAVEMENT MARKING IN CONCRETE SHALL BE SHADOWED WITH BLACK MARKINGS, PROVIDING A 3/8" DOWN MARGIN OF EACH SIDE OF THE WHITE MARKING.

BUILDING SITE PARKING FACILITY DATA

Table with 2 columns: STANDARD, VALUE. Rows include TOTAL PARKING SPACES (151), COMPACT (2), STD. ACCESSIBLE (0), VAN ACCESSIBLE (4).

EXISTING FIRE HYDRANT #2 (AT BEACON HALL) WITHIN 75' OF MOST REMOTE POINT OF PROPOSED BUILDING (NORTHWEST CORNER) AS THE TRUCK TRAVELS.
N: 876,973.30
E: 1,355,823.22
TEST DATE: June 13, 2017
TEST BY: ROBERT LYNN (TOW INSPECTOR)
STATIC PRESSURE: 42 PSI
RESIDUAL PRESSURE: 40 PSI
FLOW: 308 GPM
CALCULATED FLOW AT 20 PSI (CALCULATION BY BSDE): 1124 GPM

WILKES COMMUNITY COLLEGE

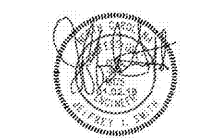
SCO# 17-14-01A NCCS# 221

CULINARY LAB

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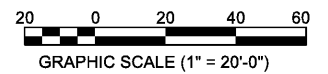
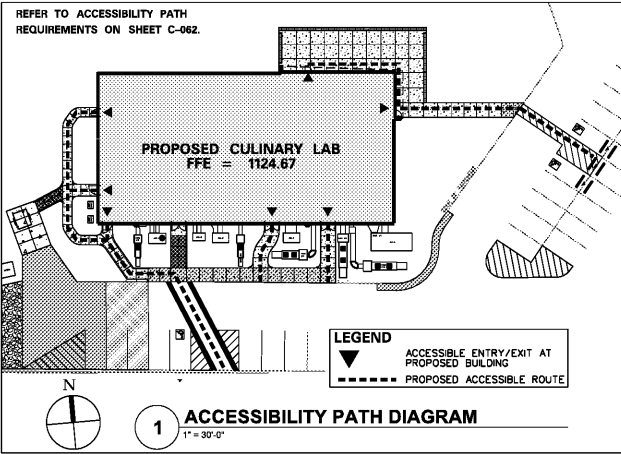
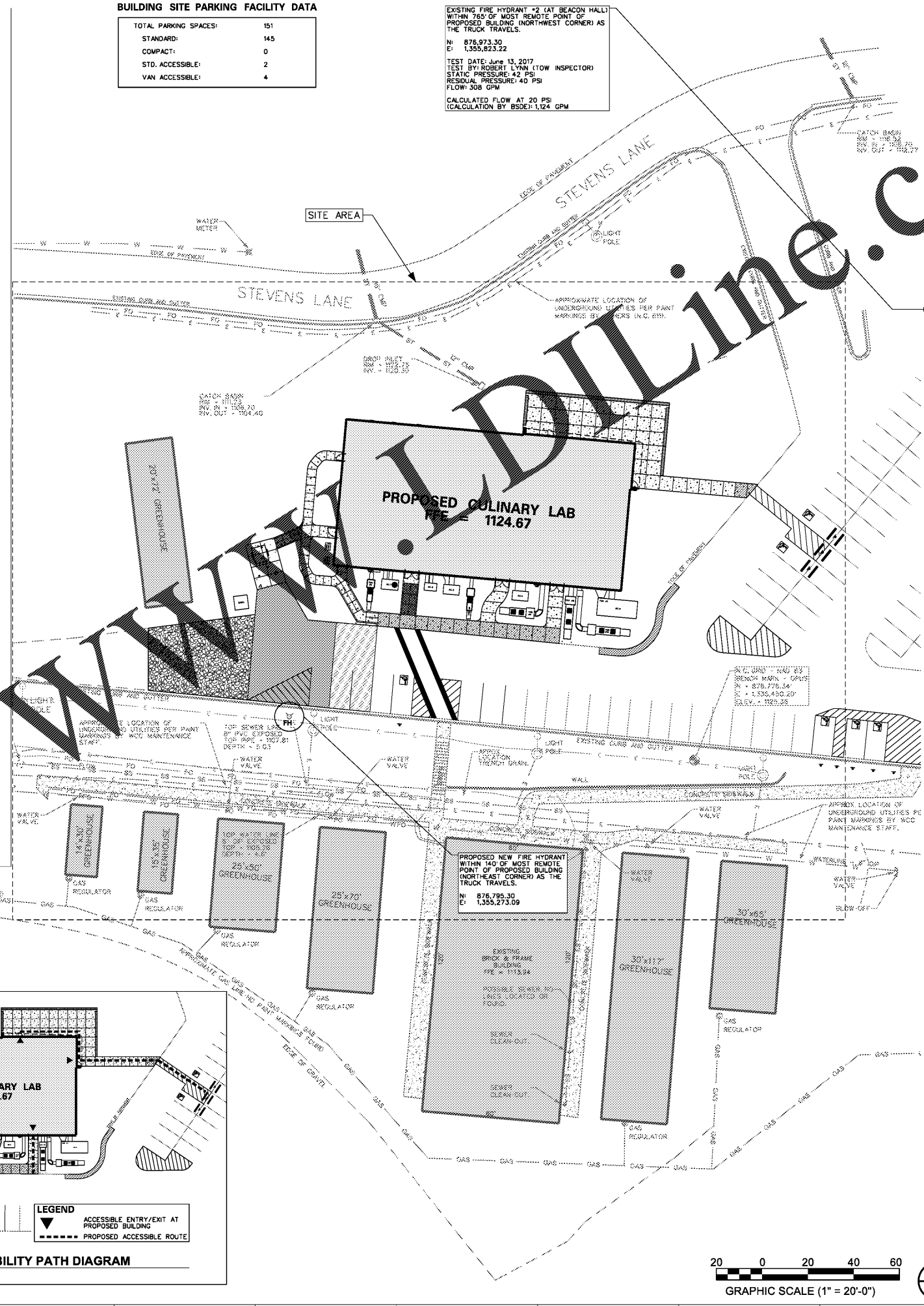
Revisions table with columns: No., Description, Date.

PROJECT: 5202-189770 DATE: January 2, 2018 DRAWN BY: S.H.D. CHECKED BY: J.L.S.

REFERENCE PLAN

C-010

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