

ENGINEERS' AUTHENTICATION
The responsibility for professional engineering liability on this project is hereby limited to the set of plans authorized by the seal, signature, and date hereunder attached. Responsibility is disclaimed for all other engineering plans involved in this project and specifically includes revisions after this date unless reauthorized.
STEVEN D. MARION P.E.
PROFESSIONAL ENGINEER
PE 200607195

SOUTH RIDGE SHOPPES, L.L.C.
OLD HIGHWAY N ROAD IMPROVEMENTS
8288 HWY N
O'FALLON, MO
NEIL KERSTEN
16761 CONCORD HILL
MARTHASVILLE, MO 63357

Project
Date 2-08-2020

Revision Date	Description of Changes
1: 03-20-20	REVISIONS PER CITY'S COMMENTS
2: 04-08-20	REVISIONS PER CITY'S COMMENTS
3: 04-24-20	REVISIONS PER CITY'S COMMENTS
4: 05-12-20	REVISIONS PER CITY'S COMMENTS

Sheet Title
PROPOSED DRAINAGE AREA MAP

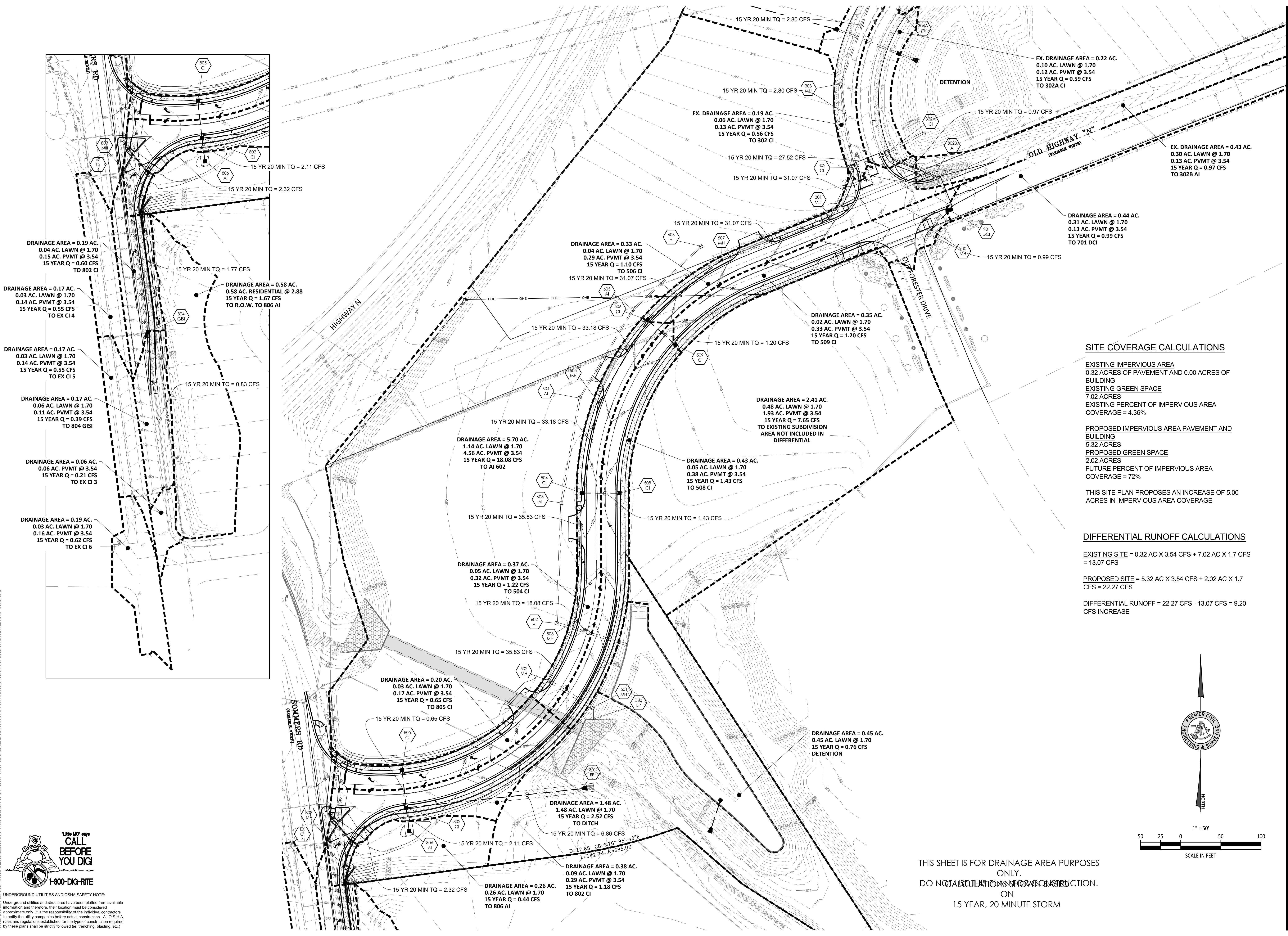
Project No. 168305
Drawn By A. JONES
Checked By J. WINTERS

NOT RELEASED FOR CONSTRUCTION

\\va01-01\va01\civil\3d\PROJECTS\168305\168305 SOUTH RIDGE SHOPPES\CONSTRUCTION DRAWINGS\SHEETS\PROPOSED DRAINAGE AREA MAP-ROAD.dwg



Underground utilities and structures have been plotted from available information and therefore, their location must be considered approximate only. It is the responsibility of the individual contractors to notify the utility companies before actual construction. All O.S.H.A. rules and regulations established for the type of construction required by these plans shall be strictly followed (i.e. trenching, blasting, etc.)



SITE COVERAGE CALCULATIONS

EXISTING IMPERVIOUS AREA
0.32 ACRES OF PAVEMENT AND 0.00 ACRES OF BUILDING
EXISTING GREEN SPACE
7.02 ACRES
EXISTING PERCENT OF IMPERVIOUS AREA COVERAGE = 4.36%

PROPOSED IMPERVIOUS AREA PAVEMENT AND BUILDING
5.32 ACRES
PROPOSED GREEN SPACE
2.02 ACRES
FUTURE PERCENT OF IMPERVIOUS AREA COVERAGE = 72%

THIS SITE PLAN PROPOSES AN INCREASE OF 5.00 ACRES IN IMPERVIOUS AREA COVERAGE

DIFFERENTIAL RUNOFF CALCULATIONS

EXISTING SITE = 0.32 AC X 3.54 CFS + 7.02 AC X 1.7 CFS = 13.07 CFS

PROPOSED SITE = 5.32 AC X 3.54 CFS + 2.02 AC X 1.7 CFS = 22.27 CFS

DIFFERENTIAL RUNOFF = 22.27 CFS - 13.07 CFS = 9.20 CFS INCREASE

THIS SHEET IS FOR DRAINAGE AREA PURPOSES ONLY.
DO NOT USE THIS PLAN FOR CONSTRUCTION.
ON
15 YEAR, 20 MINUTE STORM

