

NOTE: THE 18" PIPE AND RETAINING WALL WILL 560.00 560.00 INLET STRUCTURE NEED TO BE CONSTRUCTED SIMULTANEOUSLY INLET STRUCTURE (BY OTHERS) ----- 18" PIPE SO THAT THE GEOGRID CAN BE PROPERLY (BY OTHERS) SEE DETAIL 3/D2 (BY OTHERS) PLACED AROUND THE PIPE SEE DETAIL 3/D2 -SEE DETAIL 4/D2. 555.00 555.00 550.00 550.00 545.00 545.00 540.00 540.00 535.00 535.00 PROPER PLACEMENT AND COMPACTION OF MATERIAL AROUND AND ABOVE PIPES IS CRITICAL TO THE PERFORMANCE OF THE WALL. 18" PIPE -SEE DETAIL G/D I FOR ADDITIONAL INFORMATION. BY OTHERS FL=534.34± 48" PIPE ---- I 2" PIPE BELOW WALL BY OTHERS 530.00 530.00 ____ BY OTHERS $-FL=533.00\pm$ FL=531.70± - SHOT ROCK KEY WAY SEE DETAIL 9/D2 STA 2+00 TF= 534. 7'-6" 14'-0" 9'-6" 6'-6" GEOGRID DEPTH 13'-6" 12'-6" 11'-0" 5'-0" GEOGRID DEPTH REQ'D BEARING CAPACITY 3,300 3,200 3,000 2,300 1,700 1,600 1,000 REQ'D BEARING CAPACITY COMPACTED COMPACTED DRAINAGE REINFORCED BACKFILL REINFORCED BACKFILL COMPACTED COMPACTED DRAINAGE SEGMENT LENGTH '9.75' | 12.00' | 14.25' | 8.25' | 12.00' | 12.00' | 19.50' 93.75' 17.25' 13.50' 9.00' 20.25' SEGMENT LENGTH

NOTE: ACCORDING TO THE SCI GEOTECH REPORT NO. 2020-1191.10, TASK 300, THE ALLOWABLE BEARING CAPACITY IS 2,000 PSF. THE MAXIMUM BEARING PRESSURE IS 3,300 PSF - ADDITIONAL RECOMMENDATIONS REQUIRED PRIOR TO WALL CONSTRUCTION.

PI SCALE: I"=20'-0" HORIZONTAL SCALE: I"=5'-0" VERTICAL

> BLOCK PROPERTIES BLOCK TYPE ANCHOR BLOCK STYLE DIAMOND PRO

| ASSUMED DES | SIGN SOIL PA | ARAMETER | 25 | |
|---------------------|--------------|-----------|-------|--|
| DECORIDATION | Ф | γ | | |
| | DESCRIPTION | (DEGREES) | (PCF | |
| FOUNDATION SOIL | SHOT ROCK | 45 | 135 | |
| RETAINED SOIL | LEAN CLAY | 26 | 125 | |
| REINFORCED BACKFILL | VARIES* | 34 | 105/1 | |
| | | | | |

*SEE NOTES FOR ADDITIONAL INFORMATION

STA 0+00 TO 2+00

| BACKSLOPE | - /- | H:V DEGREES | | |
|-----------|------|-------------|--|--|
| TOESLOPE | 3:1 | H:V DEGREES | | |
| BATTER | 7.13 | DEGREES | | |
| SETBACK | 1.0 | INCH | | |
| SURCHARGE | | | | |
| DEAD LOAD | 0 | PSF | | |
| LIVE LOAD | 100 | PSF | | |

STA 2+00 TO 3+53.25

| WALL PROPERTIES | | | | |
|-----------------|------|----------------|--|--|
| BACKSLOPE | | H:V DEGREES | | |
| TOESLOPE | - / | H:V DEGREES | | |
| BATTER | 7.13 | DEGREES | | |
| SETBACK | 1.0 | INCH | | |
| SURCHARGE | | | | |
| DEAD LOAD | 0 | PSF | | |
| LIVE LOAD | 100 | PSF | | |

WALL ELEVATION NOTES:

I. GEOGRID DEPTH IS MEASURED FROM THE FRONT FACE OF BLOCK 2. SEGMENT LENGTH IS THE DISTANCE BETWEEN GRID DEPTH TRANSITIONS 3. REINFORCED BACKFILL

3.1. (D)RAINAGE ROCK, SEE DETAIL I/DI 3.2. (C)OMPACTED ROCK, SEE DETAIL 2/D I 4. REQ'D BEARING CAPACITY IS IN PSF

> 8-18-21 DESIGN REVISION 8-12-21 DESIGN REVISION REV DATE DESCRIPTION ROSCH ENGINEERING 18390 WINGS CORPORATE DRIVE CHESTERFIELD, MO 63005



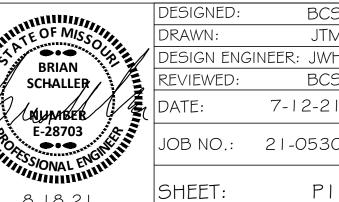
PHONE: 636-519-7770 **ROSCH** FAX: 636-532-7773

MO CERTIFICATE OF AUTHORITY #E-20 | 2039663

PLANET FITNESS O'FALLON, MO

RETAINING WALL ELEVATION & PLAN

7-12-2



STORM PIPES, STORM STRUCTURES, LIGHT POLES BASES, ETC ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY AND ARE BASED ON THE INFORMATION SHOWN ON THE PROJECT CIVIL PLANS REFERENCED IN GENERAL NOTE 1.4. REFER TO CURRENT PROJECT CIVIL PLANS FOR ALL SPECIFIC INFORMATION INCLUDING BUT NOT LIMITED TO SIZE AND LOCATION.

STRUCTURAL DESIGN HEREIN REPRESENTS A FINISHED STRUCTURE. THE GENERAL CONTRACTOR/OWNER SHALL PROVIDE ALL INTERIM BRACING, SHORING, INTERIM DRAINAGE PROVISIONS, DRAINAGE DIVERSION AND EROSION PROTECTION REQUIRED UNTIL FINAL CAPPING, PAVING, CURBING AND COMPLETION OF FINAL STORM DRAIN SYSTEM IS COMPLETE.