

GENERAL NOTES

- GN # 1 Driveway locations shall not interfere with the sidewalk handicap ramps, or curb inlet sumps
GN # 2 Sidewalks, curb ramps, ramps and accessible parking spaces shall be constructed in accordance with the current approved "American with Disabilities Act Accessibility Guidelines" (ADAAG) along with the required grades, construction materials, specifications and signage.
GN # 3 Truncated domes for curb ramps located in public right of way shall meet ADA requirements and shall be constructed using red pre cast truncated domes such as those manufactured by Armor Tile or approved equal.
GN # 4 Any proposed pavilions or playground areas will need a separate permit from the Building Division.
GN # 5 The Contractor is responsible to call Missouri One Call and The City of O'Fallon for the location of utilities.
GN # 6 All proposed utilities and/or utility relocations shall be located underground.
GN # 7 All proposed fencing requires a separate permit from the Building and Safety Division.
GN # 8 All construction operations and work zone traffic control within the right of way will follow MoDOT or M.U.T.C.D. standards whichever is more stringent.
GN # 9 All free standing signs shall be located a minimum of ten (10) feet away from any right of way line and/or property line and a minimum of three (3) feet from the back of curbing or sidewalk.
GN # 10 All subdivision identification or directional sign(s) must have the locations and sizes approved and permitted separately through the Planning and Development Division.
GN # 11 All materials to be disposed of and not reused, including trees, organic debris, rubble, foundations, and other deleterious material shall be removed from the site and disposed of in compliance with all applicable laws and regulations.
GN # 12 Twenty-four (24) hours prior to starting any of the work covered by the above plans and after approval thereof, the developer shall make arrangements with the Construction Inspection Office to provide for inspection of the work, sufficient in the opinion of the City Engineer, to assure compliance with the plans and specifications as approved.
GN # 13 The City Engineer or their duly authorized representative shall make all necessary inspections of City infrastructure, escrow items or infrastructure located on the approved plans.

EROSION CONTROL NOTES

- EN # 1 The Permittee shall assume complete responsibility for controlling all siltation and erosion of the project area.
EN # 2 All erosion control systems are to be inspected and corrected weekly, especially within 48 hours of any rain storm resulting in one-half inch of rain or more.
EN # 3 Erosion control devices (silt fence, sediment basin, etc.) shall be in accordance with St. Charles County Soil and Water Conservation District Erosion and Sediment Control guidelines.
EN # 4 This development is required to provide long term post construction BMP's such as: low impact design, source control and treatment controls that protect water quality and controls run off to maximum extent practical in compliance with Phase II Illicit Storm Water Discharge Guidelines.
EN # 5 Graded areas shall be seeded and mulched (strawed) within 14 days of stopping land disturbance activities.

GRADING NOTES

- GRN # 1 Developer must supply City construction inspectors with soil reports prior to and during site soil testing.
GRN # 2 All fill placed in areas other than proposed storm sewers, sanitary sewers, proposed roads, and paved areas shall be compacted from the bottom of the fill up in 8" lifts and compacted to 90% maximum density as determined by Modified AASHTO T-180 compaction test or 95% of maximum density as determined by the Standard Proctor Test AASHTO T-99.
GRN # 3 The surface of the fill shall be finished so it will not impound water.
GRN # 4 All sediment and detention basins are to be constructed during the initial phase of the grading operation.
GRN # 5 When grading operations are complete or suspended for more than 14 days, permanent grass must be established at sufficient density to provide erosion control on site.
GRN # 6 No slopes shall exceed 3 (horizontal): 1 (vertical).
GRN # 7 All low places whether on site or off shall be graded to provide drainage with temporary ditches.
GRN # 8 All existing wells on site shall be capped per DNR standards.
GRN # 10 All trench back fills under paved areas shall be granular back fill, and compacted mechanically.
GRN # 11 Site grading.
a. Within City right-of-way. Material is to be placed in eight (8) inch to twelve (12) inch loose lifts and compacted per the approved compaction requirements.
b. Outside of City right-of-way. Material is to be placed in eight (8) inch to twelve (12) inch loose lifts and compacted per the approved compaction requirements.

STORM SEWER NOTES

- STM # 1 All Storm Sewer installation is to be in accordance with M.S.D. 2007 standards and specifications except as modified by the City of O'Fallon Ordinances.
STM # 2 Brick shall not be used in the construction of storm sewer structures.
STM # 3 A 5/8" trash bar shall be installed horizontally in the center of the opening(s) in all curb inlets and area inlets.
STM # 4 HDPE pipe is to be N-12WT or equal and to meet ASTM F1417 water tight field test.
STM # 5 Encase with concrete both sanitary and storm sewer at crossing when storm sewer is within 18 inches above sanitary sewer.
STM # 6 The storm sewers should run diagonally through the side yards to minimize any additional utility easements required.
STM # 7 All concrete pipes will be installed with O-ring rubber type gaskets.
STM # 8 Connections at all storm structures are to be made with A-lock joint or equal.
STM # 9 Pre cast concrete inlet covers are not to be used.
STM # 10 The swale in the detention basins shall have a minimum 1% longitudinal slope and be lined with a permanent erosion control blanket that will allow infiltration of storm water.
STM # 11 All storm sewer shall be reinforced concrete pipe or H.D.P.E. pipe.
STM # 12 The discharge point of all flared end sections shall be protected by rip rap or other approved means.
STM # 13 Rip rap shown at flared end sections will be evaluated in the field by the Engineer, Contractor, and City Inspectors after installation for effectiveness and field modified, if necessary to reduce erosion on and off site.
STM # 14 Add 1" minus rock backfill to all storm that lie within the 1:1 shear plane of the road.

WATER JETTING NOTES

- WJ # 1 Outside (beyond) the pavement limits, excavations shall be jetted with water and allowed to set for a length of time satisfactory to the City Engineer.
WJ # 2 Jetting. Granular materials and earth materials associated with new construction beyond the pavement may be jetted, taking care to avoid damage to newly laid sewers.
WJ # 3 Depth. Trench backfill less than eight (8) feet in depth shall be probed to a depth extending to half the depth of the trench backfill, but not less than three (3) feet.
WJ # 4 Equipment. The jetting probe shall be a metal pipe with an exterior diameter of one and one-half (1.5) to two (2) inches.
WJ # 5 Method. Jetting shall be performed from the low surface topographic point and proceed toward the high point, and from the bottom of the trench backfill towards the surface.
WJ # 6 Surface bridging. The contractor shall identify the locations of the surface bridging (the tendency for the upper backfill crust to arch over the trench rather than collapse and consolidate during the jetting process).

ROADWAY NOTES

- RN # 1 All paving to be in accordance with 2006 St. Charles County standards and specifications except as modified by the City of O'Fallon ordinances.
RN # 2 If the intersecting road does not have a curb, then the curb on the new entrance shall begin 10' from the edge of the existing road.
RN # 3 Provide 6" of concrete over 4" of MoDot type 1 or type 5 aggregate rock or asphalt equivalent for minor residential streets per City Code 405.370.
RN # 4 Multi-use trail (when required) Shall have a minimum of 3" Type "C" Asphalt over 4" aggregate base per City requirements.
RN # 5 Type C (BP-1) Compaction requirements shall be 98% minimum density of St. Charles County Standard Specifications.
RN # 6 Provide pavement striping at any point where the multi-use trail crosses existing or proposed pavement.
RN # 7 All street stub-outs over 250' in length will require a temporary turnaround.
RN # 8 All sub grade in cut or fill will need to conform to the City of O'Fallon Compaction requirements.
RN # 9 Material Testing And Frequency. Materials for construction shall be tested and inspected per the appropriate ASTM code or at the City Engineer's discretion.
1. Concrete.
a. Cylinders/compressive strength. One (1) set of four (4) cylinders within the first fifty (50) cubic yards and one (1) set per one hundred (100) cubic yards thereafter.
b. Second air and temperature. First (1st) truck batch each day and two (2) thereafter until a consistency is encountered.
c. Slump. First (1st) truck batch each day and two (2) thereafter until a consistency is encountered.
d. If concrete is batched from more than one (1) plant, then the aforementioned guidelines will be applicable to each plant.
2. Subgrade and base.
a. Proof roll as described in Section 405.210(B).
b. One (1) compaction test per two hundred fifty (250) feet of mainline paving, three (3) tests per intersection, five (5) tests within cul-de-sacs and one (1) test per repair slab.
c. Gradation test for subbase material.
3. Asphalt.
a. One (1) set of compaction tests per two hundred fifty (250) feet of mainline. One (1) set includes three (3) tests across the paved lane at the same station.
b. One (1) bulk density test per paving operation.
RN # 10 Approval Of Subgrade And Base (Subbase). The City Engineer or representative shall approve the subgrade before any base is placed thereon and shall approve the base before concrete or surface course is placed.
RN # 11 In all fill areas in the roadways, soil tests shall be submitted and approved by the City Engineer for each foot of fill and at least one (1) test and an average of one (1) test within every two hundred fifty (250) feet.
RN # 12 No traffic will be allowed on new concrete pavement until it has cured for seven (7) days and it reaches three thousand five hundred (3,500) psi.
RN # 13 Prior to placement of aggregate base material on subgrade and prior to placement of pavement on base material, the subgrade and base must be proof-rolled with a fully loaded (ten (10) ton load) tandem truck or equivalent tire vehicle with one (1) pass down each driving lane no faster than three (3) miles per hour.
RN # 14 Subgrade and base beneath pavements shall be compacted to St. Charles County Highway Department specifications.

- RN # 15 The entire width and length will conform to line, grade and cross section shown on the plans or as established by the engineer, if any setting or washing occurs, or where hauling results in ruts or other objectionable irregularities, the contractor shall improve the subgrade or base to the satisfaction of the City before the pavement is placed.
RN # 17 Utility Work Prior To Base Construction. No base course work may proceed on any street until all utility excavations (storm and sanitary sewers, water, gas, electric, etc.) have been properly backfilled with granular material, crushed stone or gravel mechanically tamped in ten (10) inch lifts.
RN # 18 Equipment calibration. The developer's contractors and subcontractors must have their equipment calibrated by the following minimum standards.
RN # 19 Street lights shall be provided and installed per city requirement in all subdivisions, except as stated under large lot residential subdivisions, Section 405.300.
RN # 20 All permanent traffic control will be per MUTCD or MoDot standards.
RN # 21 All traffic signals, street signs, sign post, backs and bracket arms shall be painted black using Carbolite Rust bond Penetrating Sealer SG and Carbolite 133 HB paint (or equivalent as approved by City of O'Fallon and MoDOT).

RETAINING WALLS: TERRACED AND VERTICAL

- RW # 1 A permit is required for all retaining walls that are 48 inches tall in height, measured from the top of the footing to the top of the wall or for walls that support a surcharge load or that alters the channelized drainage of any lot or drainage area.
RW # 2 Retaining walls will not be allowed in public right-of-way without written approval from the City Engineer.
RW # 3 Any retaining wall more than thirty (30) inches tall which supports a walking surface that is within two (2) feet of the wall will require a guard on the retaining wall.
RW # 4 Retaining walls that alter the channeled drainage of any lot or drainage area shall not be constructed without prior approval and permitting from the City of O'Fallon Engineering Department regardless of the height of the wall.
RW # 5 See section 405.275 of the City code for additional design requirements.

FLOOD PLAIN INFORMATION

- FP # 1 Approval from the US Army Corps of Engineers and Missouri Department of Natural Resources is required for all work in the flood plain.

PROJECT TITLE: S.A.K. CONST. O'FALLON REQUIRED NOTES

MUSLER ENGINEERING COMPANY CIVIL ENGINEERING - PLANNING - LAND SURVEYING 32 Portwest Court, St. Charles, Missouri 63303 Telephone: (636) 916-0444 Fax: (636) 916-3444

DISCLAIMER OF RESPONSIBILITY I hereby specify that the documents intended to be authorized by my seal are limited to this sheet, and I hereby disclaim any responsibility for all other Drawings, Specifications, Estimates, Reports or other documents or instruments relating to or intended to be used for any part or parts of the architectural or engineering project or survey.

STATE OF MISSOURI JEFFREY R. SMITH REGISTERED PROFESSIONAL ENGINEER NUMBER E2001004672 8.8.11 9.8.11 JEFFREY R. SMITH, P.E. MO. P.E. # 2001004672

PREPARED FOR: S.A.K. CONSTRUCTION, LLC MR. CARY SHAW 864 HOFF ROAD O'FALLON, MISSOURI 63366 TELEPHONE: 636-379-2350 FAX: 636-379-2461 E-mail: cshaw@sakcon.com

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