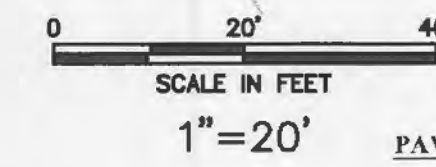


# HYLAND GREEN PLAT #1 P.B. 42 PGS. 46-48



### PAVING NOTES

- Contractor shall notify the Engineer as soon as possible if actual ground conditions differ from those shown on the Plans.
- All asphaltic concrete or portland cement concrete paving and aggregate base (public and private) shall be constructed in accordance with the "Standard Specifications of St. Charles County Highway Department" (2006) except as modified by the City of Fallon's codes or ordinances.
- Prior to placement of aggregate base course for parking and drives, the contractor shall proofroll the subgrade using a fully loaded, tandem axle, dump truck in the presence of the geotechnical engineer. Excessive rutting or pumping of the subgrade will require the subgrade to be undercut and recompact in lifts with suitable soils at the required minimum compaction requirements.
- Public streets used by the contractor shall be cleaned on a regular, daily, basis.
- Contractor shall guarantee paving for a period of one year following final acceptance by the Owner, against settlement, raveling, cracking, and ponding. Repairs are to be made any necessary throughout the guarantee period. Repairs shall be performed by cutting out, removing, and replacing defective sections of pavement. Overlays will not be allowed.

### UTILITY NOTES

- The private water service may be installed in the same trench as the electric, telephone, and cable TV as long as all are the same depth as the deepest utility and the trench is sufficiently wide for there to be 12" separation between the water pipe and the next closest pipe. Water service pipe shall be laid with at least 42" cover.
- The natural gas service piping may be in the same trench as the sanitary sewer force main as long as they are at the same depth and as long as there is at least 12" separation between pipes. The sewer force main shall be laid with at least 42" cover.
- The water service piping shall be polyvinyl chloride, copper, or polyethylene in the longest lengths possible. Polyvinyl chloride pipe shall conform to ASTM, 2241, SDR 21, and 200 psi pressure rating. Polyethylene tubing shall conform to AWWA C901, PE 3408, CTS, IDR 7, Class 200. Copper tubing shall to Type K, soft temper with NSF approval.
- Use of polyvinyl-chloride or polyethylene pipe will require the Contractor to furnish and install a tracer wire consisting of a #12 solid copper insulated wire located directly over the top of pipe. The tracer wire shall be continuous from end of pipe and be brought to the surface at either end in a special box provided for connection. A three inch wide flagging tape shall be installed directly above the newly installed utility service piping such that it is six to twelve inches above the top of pipe. Flagging shall be bright in color and printed to identify the type of the pipe located below the tape.
- Water mains shall be located at least ten feet horizontally from any existing or proposed drain, storm sewer, sanitary sewer, sewer force mains or sewer service connection. Water mains may be located closer than ten feet to a sewer line only when all the following three conditions are met:
  - local conditions prevent a lateral separation of ten feet; and
  - the water main invert is at least 18 inches above the crown of the sewer; and
  - the water main is either in a separate trench or in the same trench on an undisturbed earth shelf located to one side of the sewer.
- Horizontal and vertical alignment of utility service pipe and conduit shall be uniform, free of unnecessary bends and dips.
- If the bottom of the utility trench is not relatively smooth piping and conduit shall be placed on a 2" thick granular bedding. If the bedding is not finely graded, utility service pipe and conduit shall be backfilled to four inches over the top of pipe with select granular materials approved by the Engineer. Care shall be taken to avoid moving the pipe during backfill operations.
- Foreign materials shall be prevented from entering the pipe while it is being placed in the trench. No debris, tools, clothing, or other material shall be placed in the pipe at any time. At times when pipe laying is not in progress, the open end of pipe shall be closed by a water-tight plug. Pipe shall not be laid when there is standing water in the trench.
- Deflection of pipe joints and pipe laid on radius shall be limited to recommendations by the manufacturer.
- Water and sewer pipe shall be flushed with clean water under expected line pressure with flow velocities adequate to flush foreign material out of pipes. This flushing shall take place before the water is connected to the house plumbing and before the sewer is connected to the City main.
- Contractor shall guarantee all service lines and conduits for a period of one year from date of final acceptance. All failure of materials, installation, backfilling shall be rebuilt or repaired as specified without cost to the Owner.
- Developer installed electric distribution facilities shall be constructed in accordance with Ameren UE's "Specifications for Customer-Installed Underground Distribution Facilities" including standard drawings. Developer installed facilities include trenching, conduit for primary and secondary electric services, setting switchgear and transformer pads, furnishing and installing secondary power electrical cable. Primary and secondary conduit shall be installed with thirty-six and twenty-four inches of cover before finish grade, respectively. Conduit bends to be concrete encased. Conduits which cannot be laid with the minimum cover shall be concrete encased.
- Either reinforced concrete or corrugated metal pipe materials may be used for the culvert under the private driveway. Reinforced concrete pipe will be installed with O-ring rubber type gaskets. Corrugated metal culvert shall be 14 gauge with aluminumized coating.

### Earthwork Volumes for Driveway (excludes house)

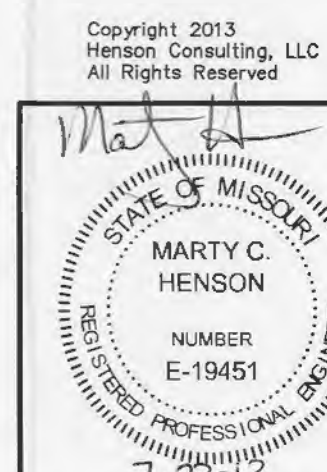
Cut = 82 cy  
Fill = 847 cy  
Shrinkage (18%) = 152 cy  
Cut Shortage = 917 cy

Cut below BFE (460.6) = 0 cy  
Fill below BFE = 474 cy

Call Before you DIG  
TOLL FREE  
**1-800-344-7483**  
MISSOURI ONE-CALL SYSTEM INC.

Underground facilities, structures & utilities have been plotted from available surveys, records & information, and therefore, do not necessarily reflect the actual existence, nonexistence, size, type, number of, or location of these facilities, structures, & utilities.

The Contractor shall be responsible for verifying the actual location of all underground facilities, structures, & utilities, either shown or not shown on these plans. The underground facilities, structures, & utilities shall be located in the field prior to any grading, excavation or construction of improvements. These provisions shall in no way absolve any party from complying with the Underground Facility Safety and Damage Prevention Act, Chapter 319, RSMo.



REVISIONS		
2	7-23-13	MCH City comments dated 7-18-13
1	7-1-13	MCH Added notes & earthwork quantities per 6-10-13 City letter

**DRIVEWAY & UTILITY SERVICES**  
**Hyland Green Plat #1 Common Ground**

1600 Koch Road St. Charles, MO 63366  
Prepared for: **Nathan & Lara Burnett**  
60 Gocke Place  
St. Louis, MO 63114  
314-610-4212

**HENSON CONSULTING, LLC**  
CIVIL ENGINEERING-LAND PLANNING-PROJECT MANAGEMENT

2317 OSSENFORD ROAD  
GLENCOE, MO 63038

Office: 636-458-4402  
Fax: 636-458-4401  
Cell: 636-399-6444  
EMAIL: mh@sbcbglobal.net

Designed	MCH
Drawn	MCH
Checked	MCH
Date	August 21, 2012
Project Number	12001
Sheet Number	4 of 9