October 23, 2013

Birnamwood Drive
From Cypresswood Drive to Spring Creek Drive

Harris County
Public Infrastructure
Project Layout

Birnamwood Drive Extension
Harris County Public Infrastructure Department
Typical Section

VEGETATIVE SWALE SECTION

G. BIRNAMWOOD DR

PROPOSED FALSE BACK INLETS

SELECT VEGETATION

100-YR WSEL

8"-12" ENGINEERED SOILS

klotz associates

Birnamwood Drive Extension
Harris County Public Infrastructure Department
Rock Berm/Dissipater
False Back Inlet
Rain Tanks
Rain Tanks
Rain Tanks

ENGINEERED SOIL SYSTEM

BIOSSWALE PLANTING
RE: PLANTING PLAN
BIAxIAL GEOSYNTHETIC GRID
ENGINEERED SOIL:
EQUAL TO FILTERRA SOIL MIX AS
 PROVIDED BY 'CONSTRUCTION ECO
 SERVICES' (832.456.1000)
FREE DRAINING, WASHED, 1/4" DIA.
BRIDGING STONE AGGREGATE
MODULAR RAIN TANK WRAPPED IN
GEOTEX, WOVEN MONOFILAMENT
EQUAL TO 'ATLANTIS RAINTANK' AS
SUPPLIED BY 'CONSTRUCTION ECO
SERVICES' (832.456.1000)
6 OZ. NON-WOVEN GEOTEXTILE
FABRIC
COMPACTED SUBGRADE TO
95% S.P.D.
CONTRACTOR TO REFER TO
PLANTING PLANS FOR LIMIT
OF ENGINEERED SOILS

ENGINEERED SOIL SYSTEM OUTFALL
INTO STORM DRAIN

ENGINEERED SOIL:
EQUAL TO FILTERRA SOIL MIX AS
 PROVIDED BY 'CONSTRUCTION ECO
 SERVICES' (832.456.1000)
OVERFLOW STRUCTURE
RE: CIVIL
FREE DRAINING, WASHED, 1/4" DIA.
BRIDGING STONE AGGREGATE
CREATE SUMP BY STACKING
ADDITIONAL MODULAR RAINTANKS.
SUMP AREA TO ALIGN WITH
OVERFLOW STRUCTURE
CONNECTION; RE: CIVIL
CONTRACTOR TO COORDINATE WITH
'CONSTRUCTION ECO SERVICES' FOR
CONNECTION TO PROPOSED OUTFALL
STRUCTURE

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Birnamwood Drive Extension
Harris County Public Infrastructure
Department
Mesic Prairie Plant Material

- Little Bluestem
- Mexican Feather Grass
- Blue Grama
- Sand Lovegrass
- Bushy Bluestem
- Woodland Sedge

Existing Soil Type:
- Specified Plant Mix Type:
  - 10% Depth
  - 25% Compost
  - 25% Screened Topsoil
  - 25% Screened Sand
  - 5% Hardwood Bark Mulch
Summary of LID Elements

Re-use of Temporary Rock Filter Dams
False-Back Inlets / Open Ditch Drainage
Native Plantings
Rain Tanks and High Pervious Soils
On-site / In-Line Detention