HORNER SHIFRIN
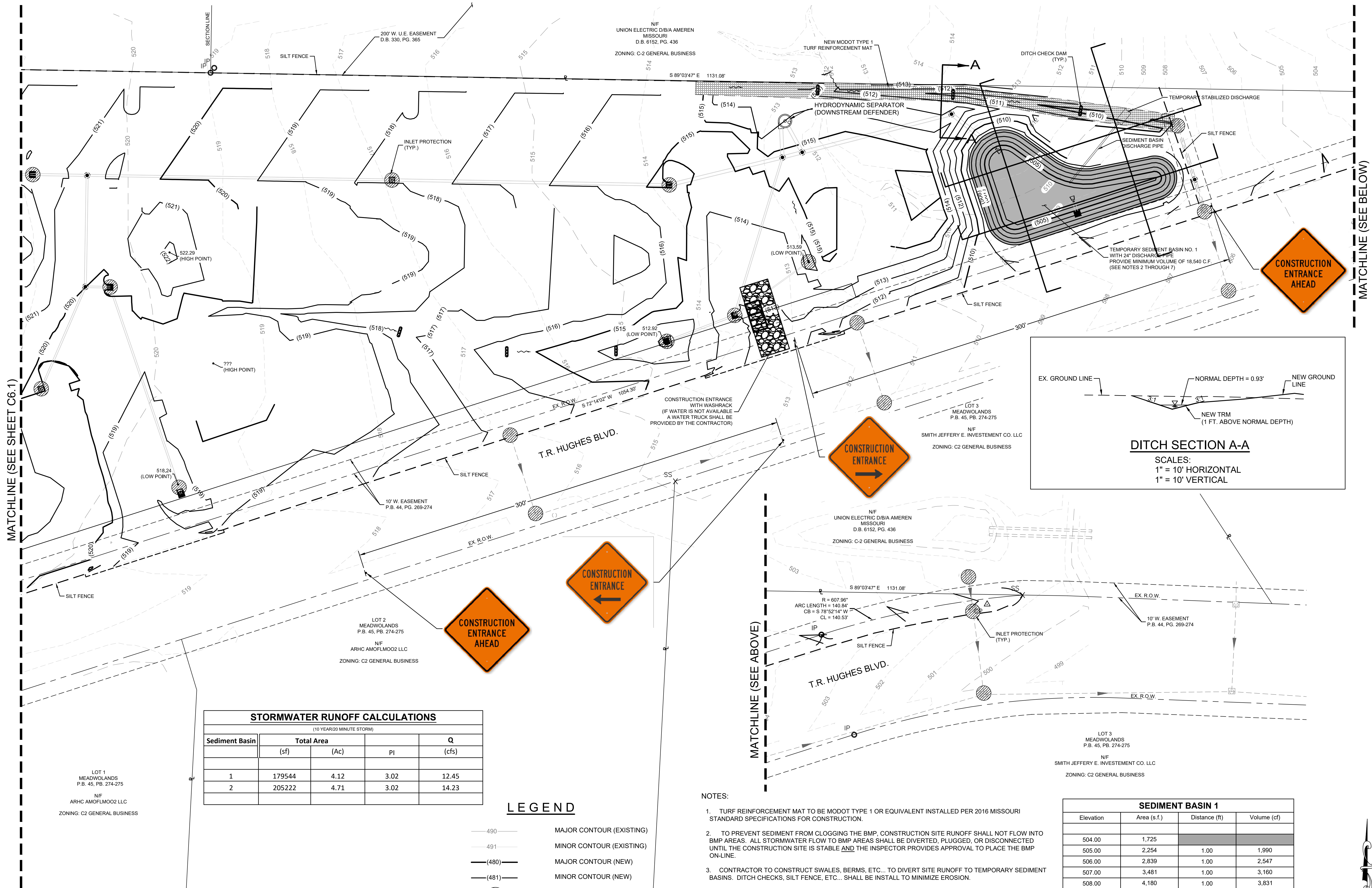
STATE OF MISSOURI
APRIL GEISMANN
PROFESSIONAL ENGINEER
NUMBER
E-2001004592

7/18/18

Name: April Geismann
Discipline: Civil Engineer
License No.: E2001004592
Expiration Date: 12/31/2019

RENEW O'FALLON

T.R. HUGHES BLVD
O'FALLON, MO 63366

SHEET TITLE: ROUGH GRADING PLAN AND SWPPP

PROJECT NUMBER: 17050

SHEET NUMBER:

C6.2

DRAWN BY: AMH   CHECKED BY: AMG

Plan labels

MATCHLINE (SEE SHEET C6.1)
MATCHLINE (SEE BELOW)
MATCHLINE (SEE ABOVE)

SECTION LINE

200' W. U.E. EASEMENT
D.B. 330, PG. 365

N/F
UNION ELECTRIC D/B/A AMEREN MISSOURI
D.B. 6152, PG. 436
ZONING: C-2 GENERAL BUSINESS

NEW MODOT TYPE 1 TURF REINFORCEMENT MAT

DITCH CHECK DAM (TYP.)

S 89°03'47" E   1131.08'

HYDRODYNAMIC SEPARATOR (DOWNSTREAM DEFENDER)

TEMPORARY STABILIZED DISCHARGE

SEDIMENT BASIN DISCHARGE PIPE

SILT FENCE

INLET PROTECTION (TYP.)

522.29 (HIGH POINT)

??? (HIGH POINT)

513.59 (LOW POINT)

512.92 (LOW POINT)

518.24 (LOW POINT)

TEMPORARY SEDIMENT BASIN NO. 1 WITH 24" DISCHARGE PIPE
PROVIDE MINIMUM VOLUME OF 18,540 C.F.
(SEE NOTES 2 THROUGH 7)

EX. R.O.W.   S 72°14'02" W   1054.30'

CONSTRUCTION ENTRANCE WITH WASHRACK
(IF WATER IS NOT AVAILABLE A WATER TRUCK SHALL BE PROVIDED BY THE CONTRACTOR)

T.R. HUGHES BLVD.

CONSTRUCTION ENTRANCE AHEAD
CONSTRUCTION ENTRANCE
CONSTRUCTION ENTRANCE AHEAD

10' W. EASEMENT
P.B. 44, PG. 269-274

N/F
UNION ELECTRIC D/B/A AMEREN MISSOURI
D.B. 6152, PG. 436
ZONING: C-2 GENERAL BUSINESS

LOT 3 MEADWOLANDS
P.B. 45, PB. 274-275
N/F
SMITH JEFFERY E. INVESTEMENT CO. LLC
ZONING: C2 GENERAL BUSINESS

LOT 2 MEADWOLANDS
P.B. 45, PB. 274-275
N/F
ARHC AMOFLMOO2 LLC
ZONING: C2 GENERAL BUSINESS

LOT 1 MEADWOLANDS
P.B. 45, PB. 274-275
N/F
ARHC AMOFLMOO2 LLC
ZONING: C2 GENERAL BUSINESS

R = 607.96'
ARC LENGTH = 140.84'
CB = S 78°52'14" W
CL = 140.53'

S 89°03'47" E   1131.08'

INLET PROTECTION (TYP.)

10' W. EASEMENT
P.B. 44, PG. 269-274

DITCH SECTION A-A

EX. GROUND LINE
NORMAL DEPTH = 0.93'
NEW GROUND LINE
NEW TRM (1 FT. ABOVE NORMAL DEPTH)

DITCH SECTION A-A
SCALES:
1" = 10' HORIZONTAL
1" = 10' VERTICAL

STORMWATER RUNOFF CALCULATIONS

(10 YEAR/20 MINUTE STORM)

Sediment Basin	Total Area			Q
	(sf)	(Ac)	PI	(cfs)
1	179544	4.12	3.02	12.45
2	205222	4.71	3.02	14.23

LEGEND

490	MAJOR CONTOUR (EXISTING)
491	MINOR CONTOUR (EXISTING)
(480)	MAJOR CONTOUR (NEW)
(481)	MINOR CONTOUR (NEW)
	INLET PROTECTION
	TURF REINFORCEMENT MAT
	SILT FENCE
	DITCH CHECK DAM
	TEMPORARY SEDIMENT BASIN

NOTES:

1. TURF REINFORCEMENT MAT TO BE MODOT TYPE 1 OR EQUIVALENT INSTALLED PER 2016 MISSOURI STANDARD SPECIFICATIONS FOR CONSTRUCTION.

2. TO PREVENT SEDIMENT FROM CLOGGING THE BMP, CONSTRUCTION SITE RUNOFF SHALL NOT FLOW INTO BMP AREAS. ALL STORMWATER FLOW TO BMP AREAS SHALL BE DIVERTED, PLUGGED, OR DISCONNECTED UNTIL THE CONSTRUCTION SITE IS STABLE AND THE INSPECTOR PROVIDES APPROVAL TO PLACE THE BMP ON-LINE.

3. CONTRACTOR TO CONSTRUCT SWALES, BERMS, ETC... TO DIVERT SITE RUNOFF TO TEMPORARY SEDIMENT BASINS. DITCH CHECKS, SILT FENCE, ETC... SHALL BE INSTALL TO MINIMIZE EROSION.

4. CONTRACTOR TO CONSTRUCT DIVERSION BERMS, DITCHES, ETC... TO INSURE THAT STORMWATER AND SEDIMENT RUNOFF ARE DIVERTED TO THE TEMPORARY SEDIMENT BASINS.

5. CONTRACTOR SHALL CLEAN/REMOVE SILT FROM TEMPORARY SEDIMENT BASINS AS NECESSARY.

6. TEMPORARY SEDIMENT BASINS SHALL BE COMPLETELY CLEANED OF SEDIMENT PRIOR TO FINALIZING EARTHWORK OPERATIONS.

7. SEE SEDIMENT BASIN 1 TABLE ON THIS SHEET FOR VOLUME GUIDELINES. VOLUMES AND ELEVATIONS ARE PROVIDED FOR CONCEPTUAL LAYOUT ONLY. CONTRACTOR IS RESPONSIBLE FOR GRADING THE SEDIMENT BASINS TO CONTAIN MINIMUM VOLUME SPECIFIED.

SEDIMENT BASIN 1

Elevation	Area (s.f.)	Distance (ft)	Volume (cf)
504.00	1,725		
505.00	2,254	1.00	1,990
506.00	2,839	1.00	2,547
507.00	3,481	1.00	3,160
508.00	4,180	1.00	3,831
509.00	4,937	1.00	4,559
509.50	5,333	0.50	2,568
		TOTAL	18,653

SPECIAL NOTE TO CONTRACTOR(S):

EXISTING UNDERGROUND AND ABOVE-GRADE FACILITIES, STRUCTURES, AND UTILITIES HAVE BEEN PLOTTED ON THESE CONTRACT DOCUMENTS BASED ON THE INFORMATION AND SURVEYS AVAILABLE AT THE TIME OF DRAWING PREPARATION. THE LOCATIONS OF THESE FEATURES MUST, THEREFORE, BE CONSIDERED APPROXIMATE, ONLY. IN ADDITION, THERE MAY BE OTHER FACILITIES, STRUCTURES, AND UTILITIES WHICH DID NOT EXIST (OR THE EXISTENCE OF WHICH WAS NOT KNOWN) AT THE TIME OF DRAWING PREPARATION. IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR(S) TO HAVE ALL EXISTING FACILITIES, STRUCTURES, AND UTILITIES LOCATED IN THE FIELD PRIOR TO ANY EXCAVATION OR CONSTRUCTION ACTIVITY; AND TO PROTECT ALL SUCH EXISTING FEATURES (EXCEPT THOSE SPECIFICALLY NOTED FOR REMOVAL OR DEMOLITION) DURING CONSTRUCTION.

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

MODOT (314) 340-4100

30'   0'   30'   60'
SCALE: 1" = 30'

DWG: C:\pwproj\shamronres\dms19759\Rough Grading Plan And SWPPP.dwg
CTB: Trans-std.ctb
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PLOT DATE: 5/24/2018 6:45:54 AM
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OPERATOR: AMHARRISON