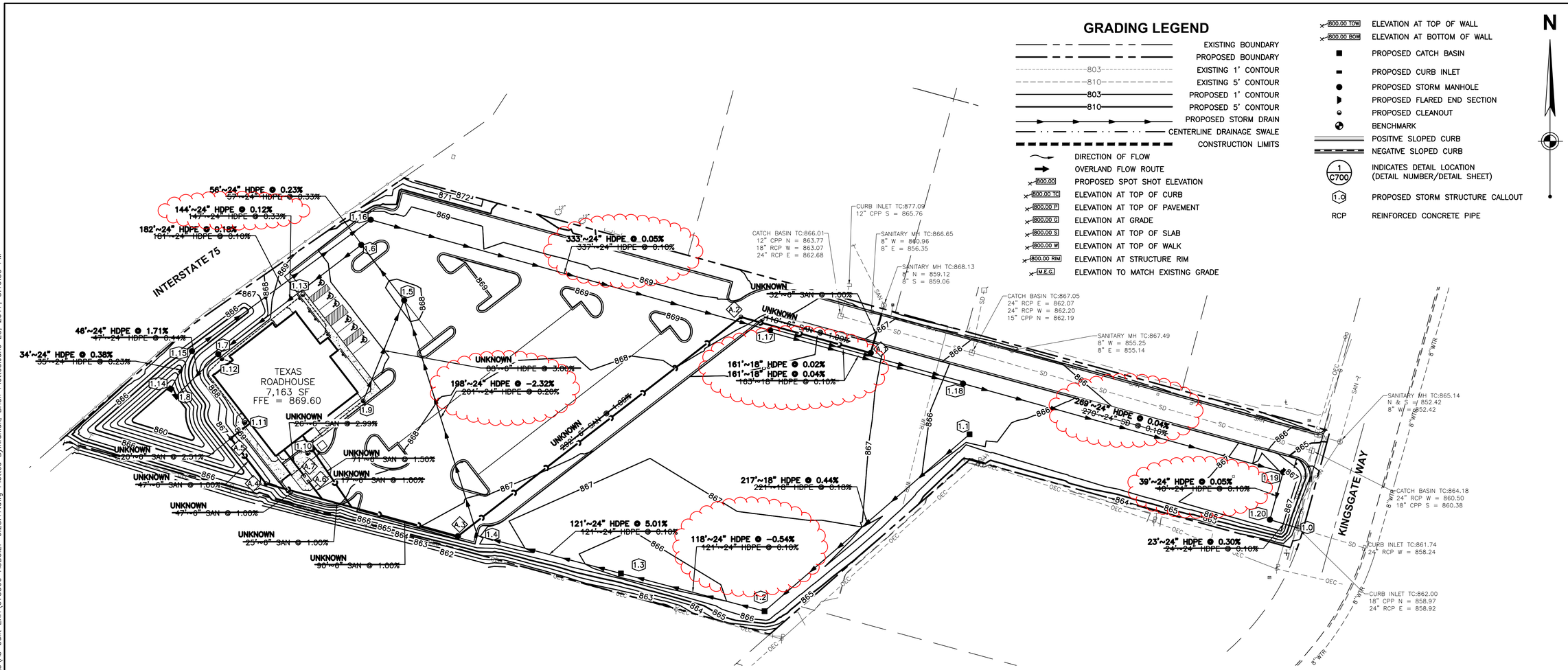


STORM STRUCTURE TABLE

STRUCTURE ID	DESCRIPTION	RIM/GRATE	INVERT
1.0	EXISTING STM INLET (SEE NOTE 4)	862.00	18" = 858.97 (N) 24" = 858.92 (E) 24" = 858.92 (W)
1.1	STORM CATCH BASIN WITH BASIN INSERT	**865.00** ~~865.20~~	18" = ~~862.02 (SW)~~ **862.06**
1.2	STORM CATCH BASIN WITH BASIN INSERT	**865.30** ~~866.21~~	18" = ~~861.62 (NE)~~ **861.10** 24" = ~~861.62 (W)~~ **861.10**
1.3	STORM CATCH BASIN WITH BASIN INSERT	**865.60** ~~865.11~~	24" = ~~861.50 (W)~~ **861.86** 24" = ~~861.50 (E)~~ **861.74**
1.4	OPEN GRATE 48" STORM MH WITH BASIN INSERT	**861.04** ~~866.30~~	24" = ~~861.38 (E)~~ **855.79** 24" = ~~861.38 (N)~~ **855.79**
1.5	OPEN GRATE 72" STORM MH WITH BASIN INSERT	**867.74** ~~867.80~~	24" = ~~860.98 (S)~~ **860.39** 24" = ~~860.78 (NW)~~ **860.36** ~~6" = 862.00 (S)~~ **8" = 861.28 (S)**
1.6	CLOSED GRATE 48" STORM MH	**868.45** ~~868.47~~	24" = ~~860.59 (SE)~~ **860.23** 24" = ~~860.59 (SW)~~ **860.24**
1.7	CLOSED GRATE 48" STORM MH	**867.91** ~~868.86~~	24" = ~~860.11 (NE)~~ **860.07** 24" = ~~860.11 (SW)~~ **860.06** 6" = 862.00 (SE)
1.8	24" F.E.S.		24" = ~~859.98 (NE)~~ **859.28**
1.9	RD CLEANOUT	869.27	6" = 864.65 (N) 6" = 866.02 (SW) **UNKNOWN**
1.10	DUMPSTER DRAIN	868.85	6" = 865.31 (NW) **UNKNOWN**
1.11	RD CLEANOUT	869.48	6" = 866.50 (NW) **UNKNOWN**
1.12	RD CLEANOUT	869.30	6" = 862.13 (NW) 6" = 865.78 (SW) 6" = 865.26 (NE) **UNKNOWN**
1.13	RD CLEANOUT	869.40	6" = 866.04 (SE) 6" = 866.04 (SW) **UNKNOWN**
1.14	RATE CONTROL STRUCTURE	**866.10** ~~866.25~~	24" = ~~860.00 (NE)~~ **859.97**
1.15	CLOSED GRATE 48" STM MANHOLE	**864.59** ~~864.65~~	24" = ~~859.92 (SW)~~ **859.84** 24" = ~~859.92 (NE)~~ **859.84**
1.16	CLOSED GRATE 48" STM MANHOLE	**868.81** ~~868.82~~	24" = ~~859.74 (SW)~~ **859.51** 24" = ~~859.74 (E)~~ **859.42**
1.17	CLOSED GRATE 60" STM MANHOLE	**UNKNOWN** ~~868.24~~	24" = ~~859.46 (W)~~ **859.27** 18" = ~~859.46 (E)~~ **859.14** 18" = ~~859.46 (E)~~ **859.11**
1.18	CLOSED GRATE 60" STM MANHOLE	**865.70** ~~865.69~~	18" = ~~859.25 (W)~~ **859.08** 24" = ~~859.25 (E)~~ **859.02** 18" = ~~859.25 (W)~~ **859.08**
1.19	CLOSED GRATE 48" STM MANHOLE	**866.91** ~~867.91~~	24" = ~~858.98 (W)~~ **858.91** 24" = ~~858.98 (S)~~ **859.90**
1.20	CLOSED GRATE 48" STM MANHOLE	**867.28** ~~867.10~~	24" = ~~858.64 (N)~~ **858.88** 24" = ~~858.64 (E)~~ **858.85**

SANITARY STRUCTURE TABLE

STRUCTURE ID	DESCRIPTION	RIM	INVERT
A.1	SANITARY CONTROL MANHOLE – BUTLER COUNTY STANDARD	**867.41** ~~867.17~~	6" = ~~856.67 (W)~~ **860.87** 6" = ~~856.57 (N)~~ **856.80**
A.2	CLEAN OUT	**UNKNOWN** ~~868.34~~	6" = 857.77 (SW) 6" = 857.77 (E) **UNKNOWN**
A.3	SANITARY CONTROL MANHOLE – BUTLER COUNTY STANDARD	**UNKNOWN** ~~866.63~~	6" = ~~860.91 (W)~~ **860.47** 6" = ~~860.69 (NE)~~ **860.42**
A.4	CLEAN OUT	**UNKNOWN** ~~867.63~~	6" = 862.53 (NW) 6" = 862.53 (E) **UNKNOWN**
A.5	CLEAN OUT	**UNKNOWN** ~~867.10~~	6" = 863.00 (NE) 6" = 863.00 (SE) **UNKNOWN**
A.6	GREASE TRAP OUTLET		6" = 862.23 (SE) **UNKNOWN**
A.7	GREASE TRAP INLET		6" = 862.23 (NW) **UNKNOWN**

SURVEY DATA:

THE BEARINGS OF THIS SURVEY ARE BASED UPON THE OHIO STATE PLANE COORDINATE SYSTEM, SOUTH ZONE NAD83 (ODOT VRS). SAID BEARINGS ORIGINATED FROM SAID COORDINATE SYSTEM BY GPS OBSERVATIONS AND OBSERVATIONS OF SELECTED STATIONS IN THE NATIONAL GEODETIC SURVEY CONTINUOUSLY OPERATING REFERENCE STATIONS (NGS CORS) NETWORK. THE BEARING ON THE WEST RIGHT OF WAY LINE OF KINGSGATE WAY, BEING S15°18'15"W, IS DESIGNATED THE 'BASIS OF BEARING' FOR THIS SURVEY.

Ohio Utilities Protection Service Call 811 before you dig

0 40 80 120
GRAPHIC SCALE IN FEET

No.	DATE	REVISION

PROJECT No: 075566
DATE 06/15/16
DES. BI
DR. BI
CKD. TR

4454 Idea Center Blvd
Dayton, OH
45430-1500
937.461.5660
FAX: 937.461.0743
WOOLPERT

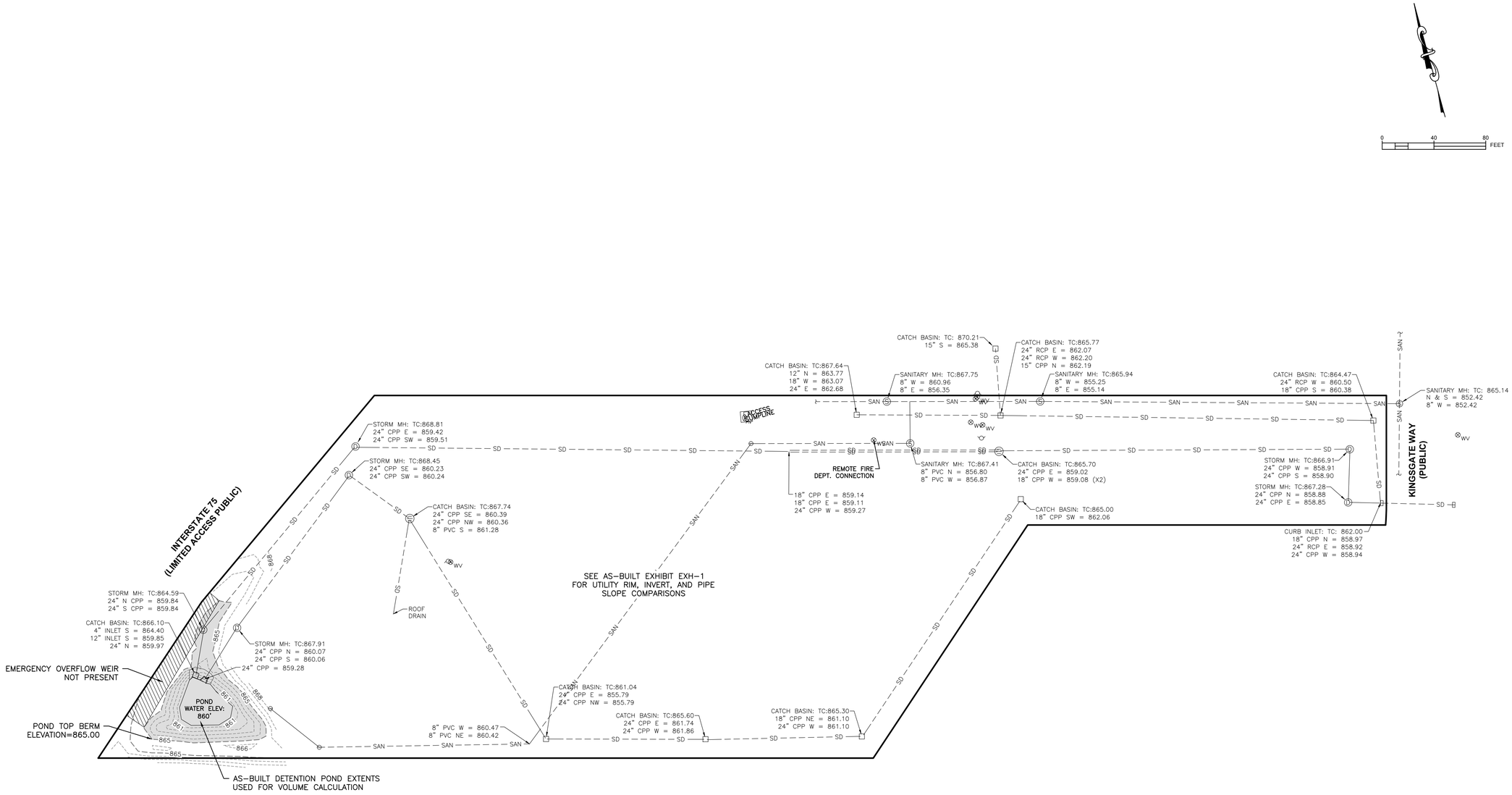
SITE IMPROVEMENT PLANS
TEXAS ROADHOUSE - WEST CHESTER

7313 KINGSGATE WAY
WEST CHESTER TOWNSHIP, BUTLER COUNTY, OHIO

AS-BUILT EXHIBIT

SHEET NO.
EXH-1

SEAL



No.	DATE	REVISION

PROJECT No: 75566
DATE 06/23/2017
DES. —
DR. TC
CKD. CS

4454 Idea Center Blvd
Dayton, OH
45430-1500
937.461.5660
FAX: 937.461.0743

WOOLPERT
ARCHITECTURE | ENGINEERING | CONSTRUCTION

TEXAS ROADHOUSE

7309 KINGSGATE WAY
TOWNSHIP OF WEST CHESTER, BUTLER COUNTY, OHIO

AS-BUILT SURVEY

SHEET NO.
1 OF 1

Detention Basin Storage (PROPOSED)

Surface Ponding
Volume = (1/3)*(EL2-EL1)*[A1+A2+sqrt(A1*A2)]

DETENTION AREA

ELEVATION (ft)	AREA (SF)	INCREMENTAL (SF)	INCREMENTAL VOLUME (CF)	TOTAL VOLUME (CF)	TOTAL VOLUME (AC-FT)
859.75	0.00	0.00	0.00	0.000	0.000
860.00	1087.50	1087.50	90.63	90.625	0.002
861.00	1614.77	4027.44	1342.48	1433.103	0.033
862.00	2260.39	5785.66	1928.55	3361.657	0.077
863.00	3028.06	7904.67	2634.89	5996.546	0.138
864.00	3908.85	10377.29	3459.10	9455.644	0.217
865.00	5296.09	13754.84	4584.95	14040.591	0.322
866.00	6770.64	18054.88	6018.29	20058.884	0.460

PROPOSED DETENTION BASIN VOLUME =	**0.4605**	**AC-FT**
	20058.88	**CF**

Detention Basin Storage (AS-BUILT CONDITION)

Surface Ponding
Volume = (1/3)*(EL2-EL1)*[A1+A2+sqrt(A1*A2)]

DETENTION AREA ELEVATION (ft)	AREA (SF)	INCREMENTAL (SF)	INCREMENTAL VOLUME (CF)	TOTAL VOLUME (CF)	TOTAL VOLUME (AC-FT)
859.28	0.00	0.00	0.00	0.000	0.000
860.00	1054.69	1054.69	253.13	253.126	0.006
861.00	1362.57	3616.04	1205.35	1458.473	0.033
862.00	1858.66	4812.62	1604.21	3062.680	0.070
863.00	2437.82	6425.12	2141.71	5204.385	0.119
864.00	3128.76	8328.35	2776.12	7980.503	0.183
865.00	4567.77	11476.94	3825.65	11806.151	0.271

AS-BUILT DETENTION BASIN VOLUME = 0.2710 AC-FT
11806.15 CF

DESIGN DETENTION BASIN VOLUME= 0.4605 AC-FT
20058.88 CF

DEFICIT= 0.1895 AC-FT