SITEWORK CONSTRUCTION PLANS

FOR

Briarwood Estates

SECTIONS 36, T21N–R5E
MOREHOUSE PARISH, LOUISIANA

DEVELOPED BY:

KWL Properties

109 East Madison Ave.
Bastrop, Louisiana 71220

List of Contacts

1. CITY OF BASTOP

MAIN OFFICE
202 EAST JEFFERSON AVE.
BASTROP, LOUISIANA 71220
PHONE: 318-283-0250

2. WATER

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217 NORTH LIBERTY STREET
BASTROP, LA 71220
PHONE: 318-281-2160

3. SANITARY SEWER

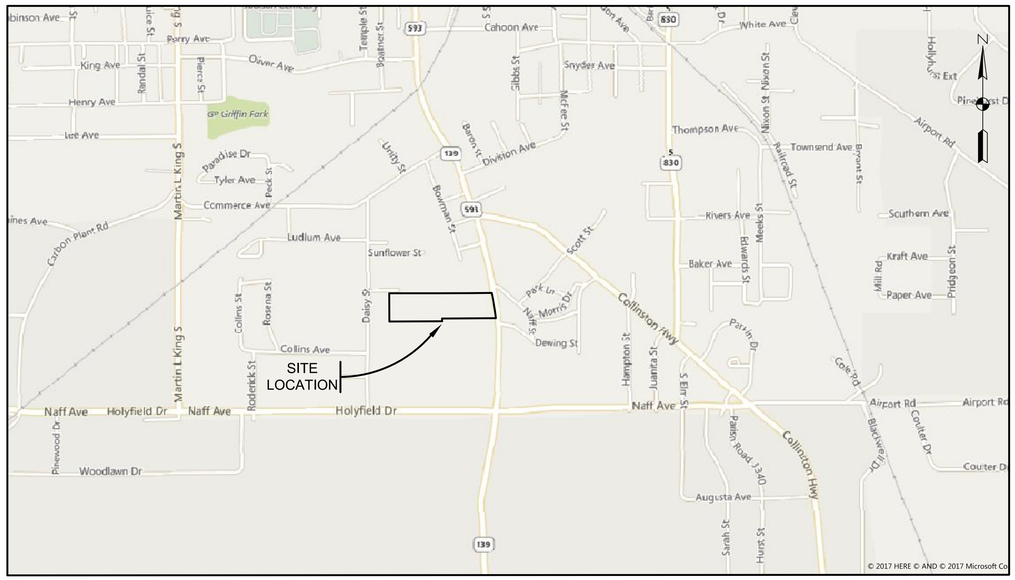
VEOLIA
202 EAST JEFFERSON AVE.
BASTROP, LOUISIANA 71220
PHONE: 318-283-0250

4. ELECTRICAL

ENTERGY
2901 CYPRESS STREET
WEST MONROE, LOUISIANA 71294
CALVIN JOHNSON
PHONE: 318-329-5504

5. TELEPHONE

BELL SOUTH
3115 DEE ST. ROOM 311
SHREVEPORT, LA 71105
DIANNA COMBS
PHONE: 1-800-661-3716 EXT. 7291



VICINITY MAP
SCALE: 1" = 1000'

SHEET INDEX

DRAWING NO.	DRAWING TITLE
168357-COVER	COVER SHEET
168357-1.00	EXISTING TOPOGRAPHY
168357-1.01	LOT LAYOUT
168357-1.02	DRAINAGE MAP
168357-1.03 thru 1.06	STREETS & DRAINAGE (PLAN & PROFILE SHTS.)
168357-1.07 thru 1.10	UTILITIES (PLAN & PROFILE SHTS.)
168357-1.11	OUTFALL DRAINAGE PIPE (PLAN & PROFILE)
168357-1.12	EROSION CONTROL PLAN
168357-1.13 thru 1.14	SITE GRADING MAPS
168357-2.01 thru 2.03	DETAIL SHEETS

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12/14/17 - RE-ISSUE FOR PRICING
10/16/17 - RE-ISSUE FOR PRICING

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DON R. ARRINGTON
License No. 26310
PROFESSIONAL ENGINEER
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DWG. NO. 168357- COVER SET NO.

147990-100
1=1

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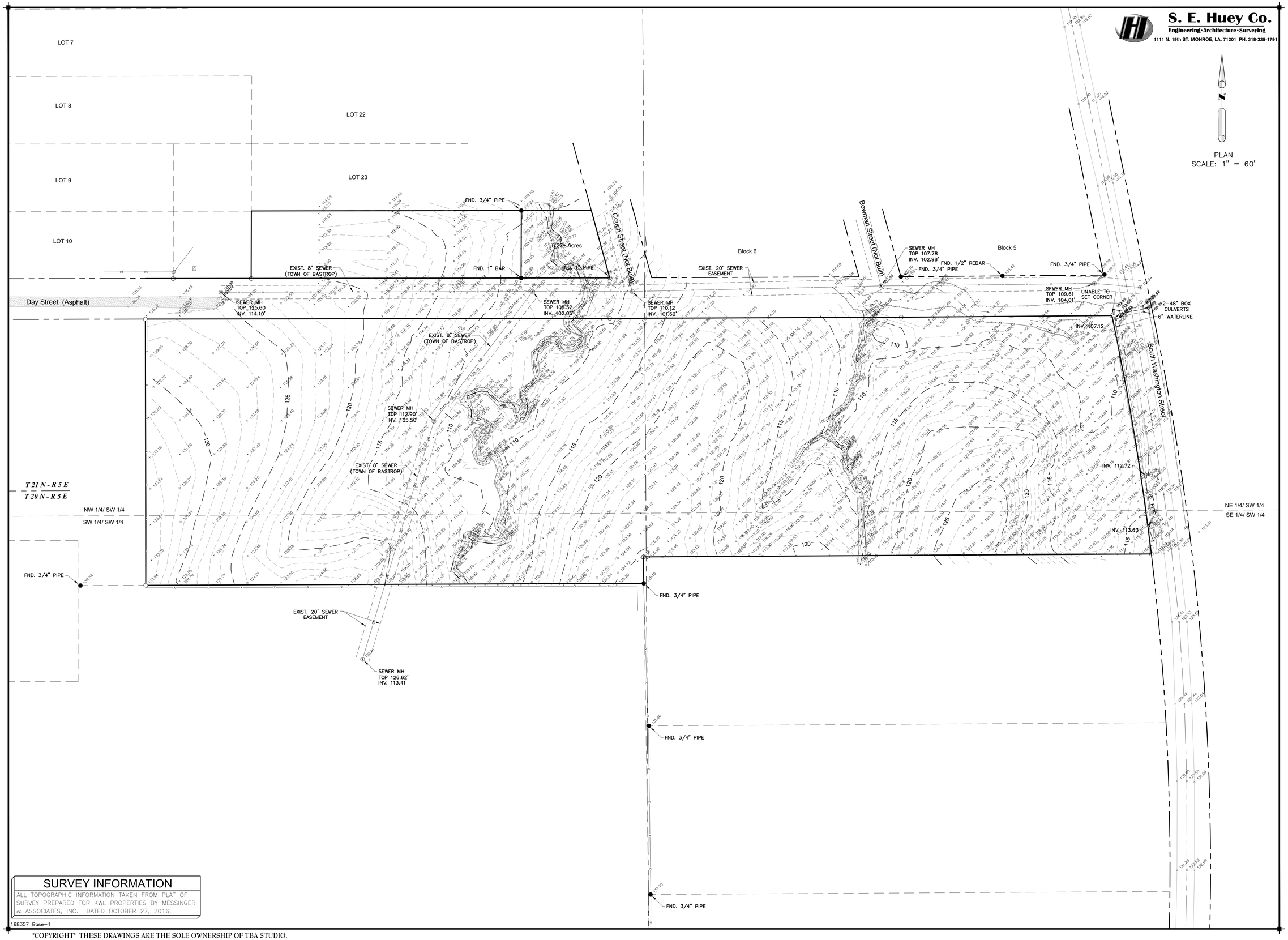

PLAN
SCALE: 1" = 60'

SURVEY INFORMATION

ALL TOPOGRAPHIC INFORMATION TAKEN FROM PLAT OF SURVEY PREPARED FOR KWL PROPERTIES BY MESSINGER & ASSOCIATES, INC. DATED OCTOBER 27, 2016.

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STATE OF LOUISIANA
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License No. 28210
PROFESSIONAL ENGINEER
IN
CIVIL ENGINEERING
4/28/17

PROJECT: A NEW HOUSING DEVELOPMENT

BRIARWOOD ESTATES

A KWL PROPERTIES, LLC DEVELOPMENT
XXX SOUTH WASHINGTON STREET
BASTROP, LA 71221

DRAWING REVISIONS

DATE	DESCRIPTION
10/16/17	RE-ISSUE FOR PRICING
12/14/17	RE-ISSUE FOR PRICING

Drawn By: DAH
Checked By: DRA
SHEET
C1.00
Date: 10.16.17
Project No.: 16-0025
File No.:
DESCRIPTION:
EXISTING TOPOGRAPHY

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PLAN
SCALE: 1" = 60'

LOT 7
LOT 8
LOT 22
LOT 9
LOT 23
LOT 10
Day Street (Asphalt)
Couch Street (Not Built)
Bowman Street (Not Built)
South Washington Street
Block 6
Block 5
EXIST. SEWER LINE
EXIST. 20' SEWER EASEMENT
EXISTING 8" SEWER
EXIST. 8" SEWER
FND. 3/4" PIPE
FND. 1" BAR
SEWER MH TOP 125.60 INV. 114.10'
SEWER MH TOP 108.52 INV. 102.05'
SEWER MH TOP 110.12 INV. 101.62'
SEWER MH TOP 107.78 INV. 102.98'
SEWER MH TOP 109.61 INV. 104.01'
SEWER MH TOP 112.90' INV. 105.50'
SEWER MH TOP 126.62' INV. 113.41
6" WATERLINE
2-48" BOX CULVERTS
INV. 107.12
INV. 112.72
INV. 113.63
18" PIPE
20' DRAINAGE EASEMENT
15' DRAINAGE EASEMENT
60' R/W
PLAYGROUND AREA
T 21 N - R 5 E
T 20 N - R 5 E
NW 1/4/ SW 1/4
SW 1/4/ SW 1/4
NE 1/4/ SW 1/4
SE 1/4/ SW 1/4
FND. 3/4" PIPE
EXIST. 20' SEWER EASEMENT

FLOOD ZONE DATA

PROPERTY SITUATED IN FLOOD ZONE "X" AS PER FEMA INSURANCE RATE MAP PANEL 22067C0435C EFFECTIVE DATE 07/06/2016

LOT LAYOUT NOTE

PROPERTY IS NOT TO BE SUBDIVIDED. LAYOUT PROVIDED FOR EASE IN SEEING NUMBER OF LOTS FOR HOUSING UNITS

SURVEY INFORMATION

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CIVIL ENGINEERING
4/28/17

PROJECT: A NEW HOUSING DEVELOPMENT

BRIARWOOD ESTATES

A KWL PROPERTIES, LLC DEVELOPMENT
XXX SOUTH WASHINGTON STREET
BASTROP, LA 71221

DRAWING REVISIONS

DATE	DESCRIPTION
10/16/17	RE-ISSUE FOR PRICING
12/14/17	RE-ISSUE FOR PRICING

Drawn By: DAH
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SHEET
C1.01
Date: 10.16.17
Project No.: 16-0025
File No.:
DESCRIPTION:
LOT LAYOUT

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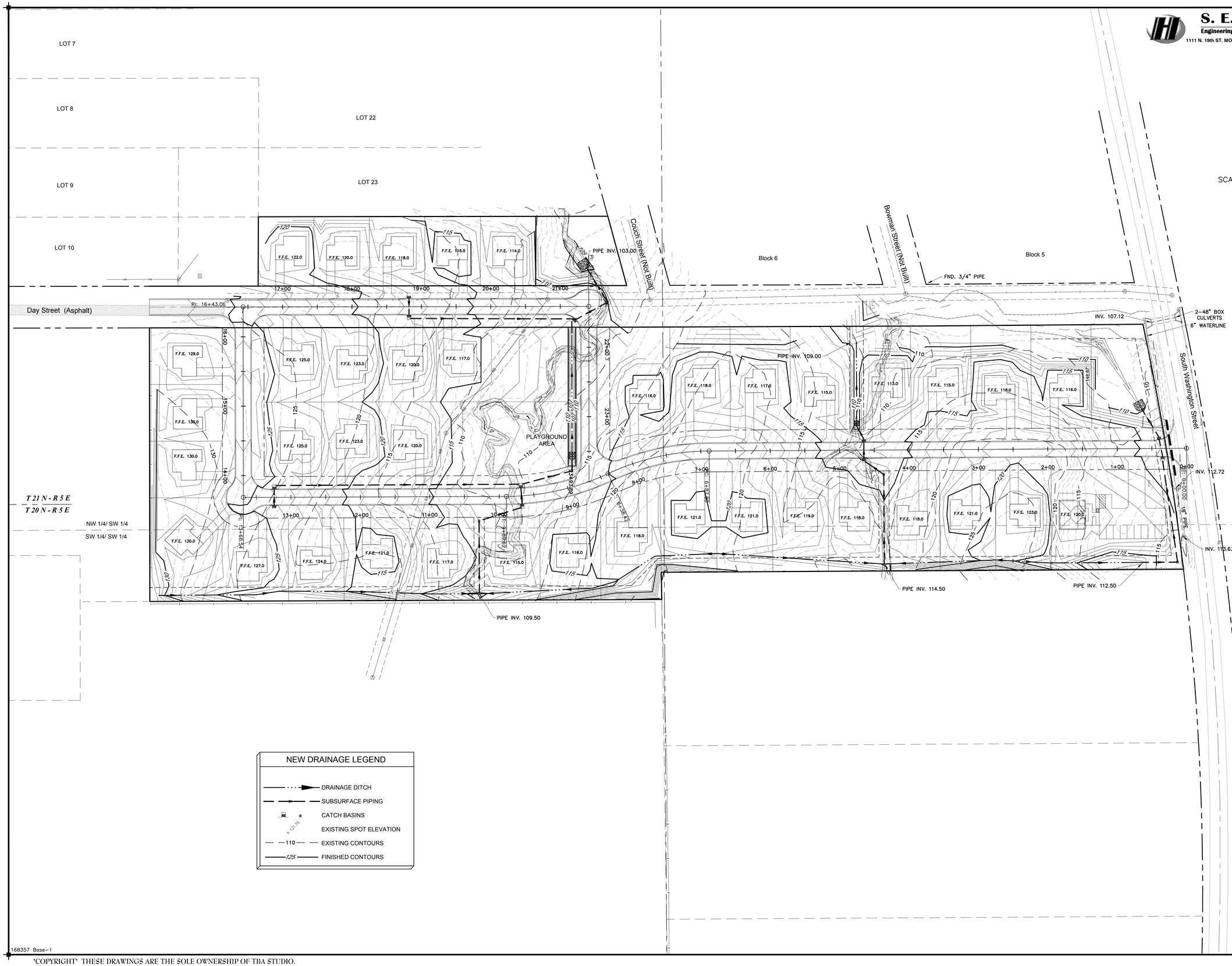

NEW DRAINAGE LEGEND

- DRAINAGE DITCH
- SUBSURFACE PIPING
- CATCH BASINS
- EXISTING SPOT ELEVATION (X 121.75)
- 110 EXISTING CONTOURS
- 125 FINISHED CONTOURS

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A KWL PROPERTIES, LLC DEVELOPMENT
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Drawn By: DAH
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C1.02
Date: 10.16.17
Project No.: 16-0025
File No.:
DESCRIPTION:
DRAINAGE MAP

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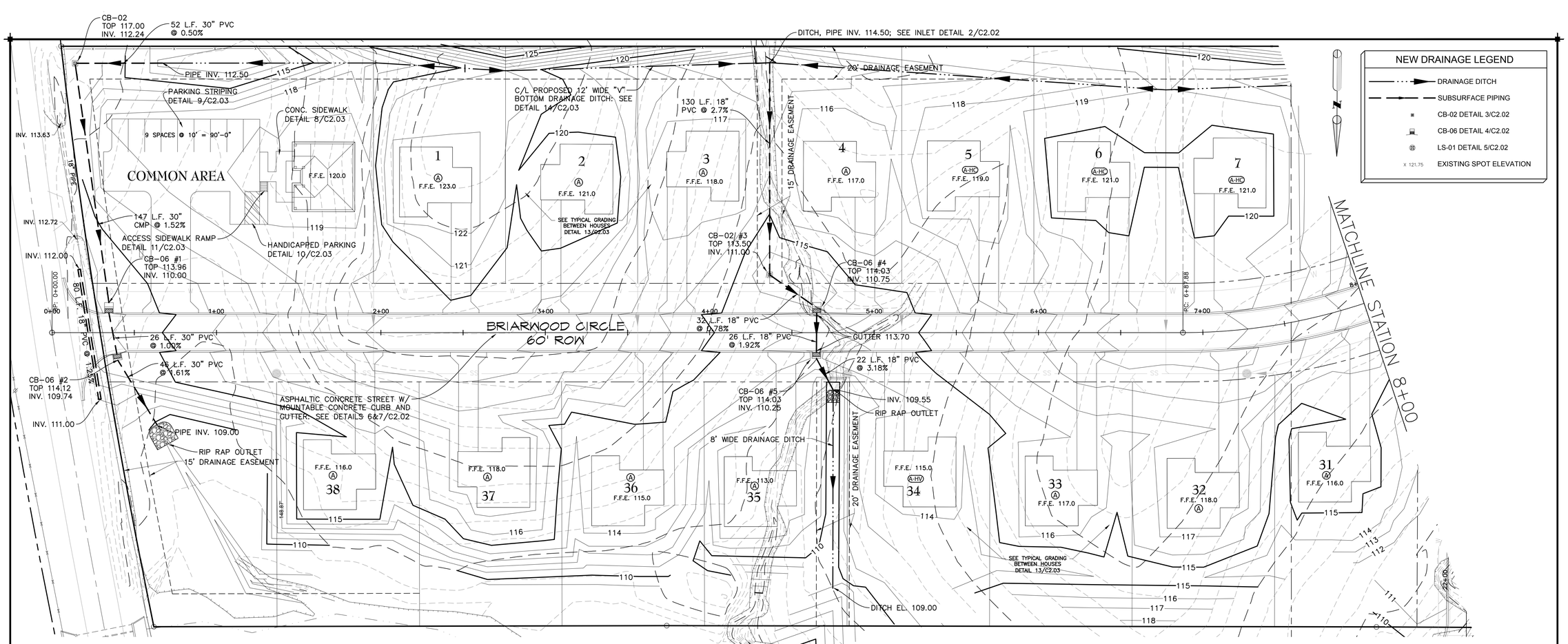
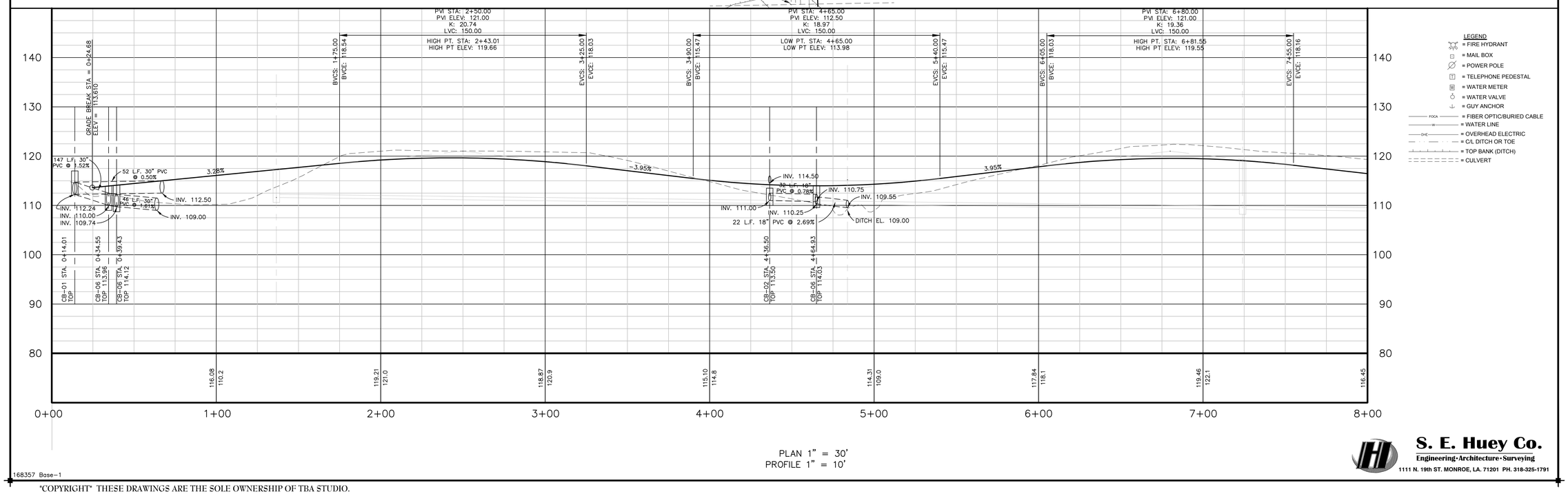


PLAN
SCALE: 1" = 30'



PLAN 1" = 30'
PROFILE 1" = 10'

LEGEND
- FIRE HYDRANT
- MAIL BOX
- POWER POLE
- TELEPHONE PEDESTAL
- WATER METER
- WATER VALVE
- GUY ANCHOR
- FOCA = FIBER OPTIC/BURIED CABLE
- W = WATER LINE
- OHE = OVERHEAD ELECTRIC
- C/L DITCH OR TOE
- TOP BANK (DITCH)
- CULVERT

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4/28/17

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DATE	DESCRIPTION
10/16/17	RE-ISSUE FOR PRICING
12/14/17	RE-ISSUE FOR PRICING

Drawn By: DAH

Checked By: DRA

SHEET

C1.03

Date: 10.16.17

Project No.: 16-0025

File No.:

DESCRIPTION:

STREETS & DRAINAGE
SHEET 1 OF 4

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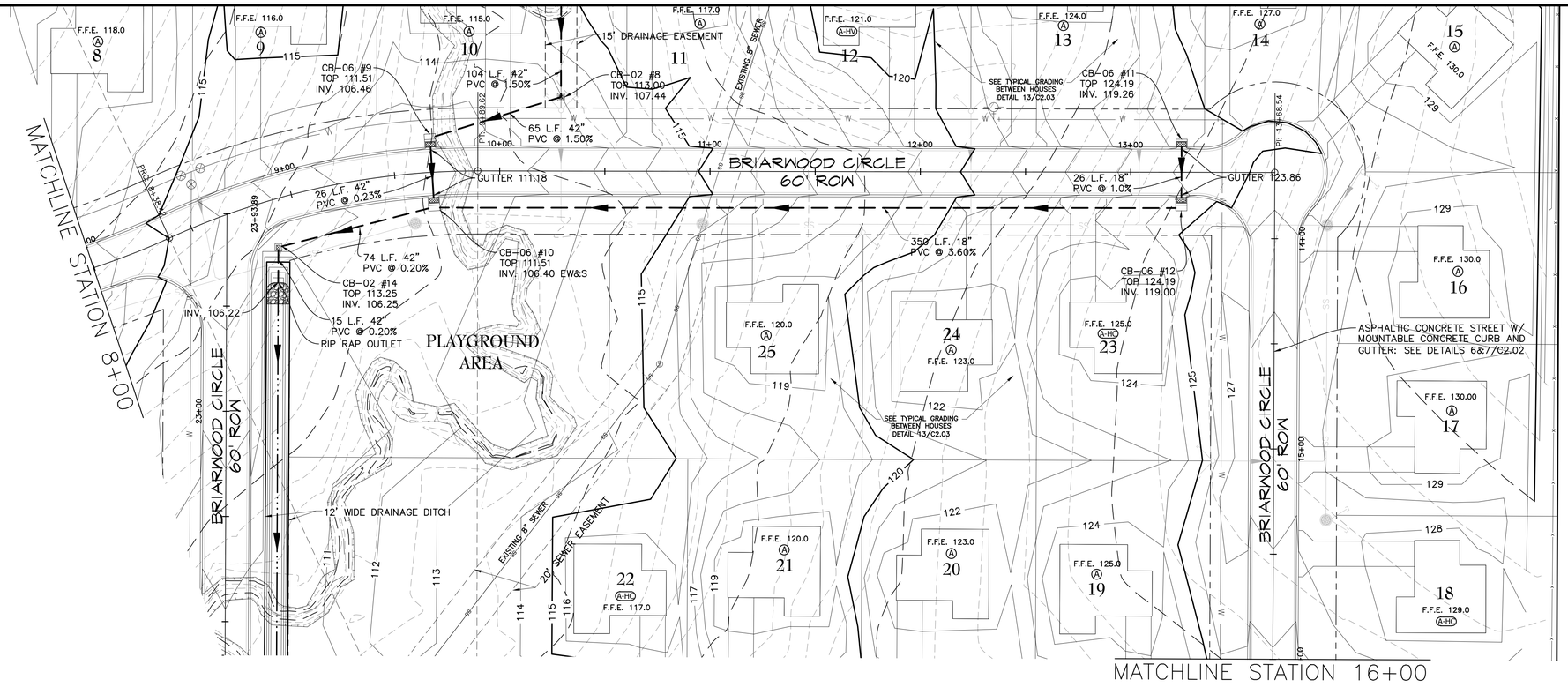

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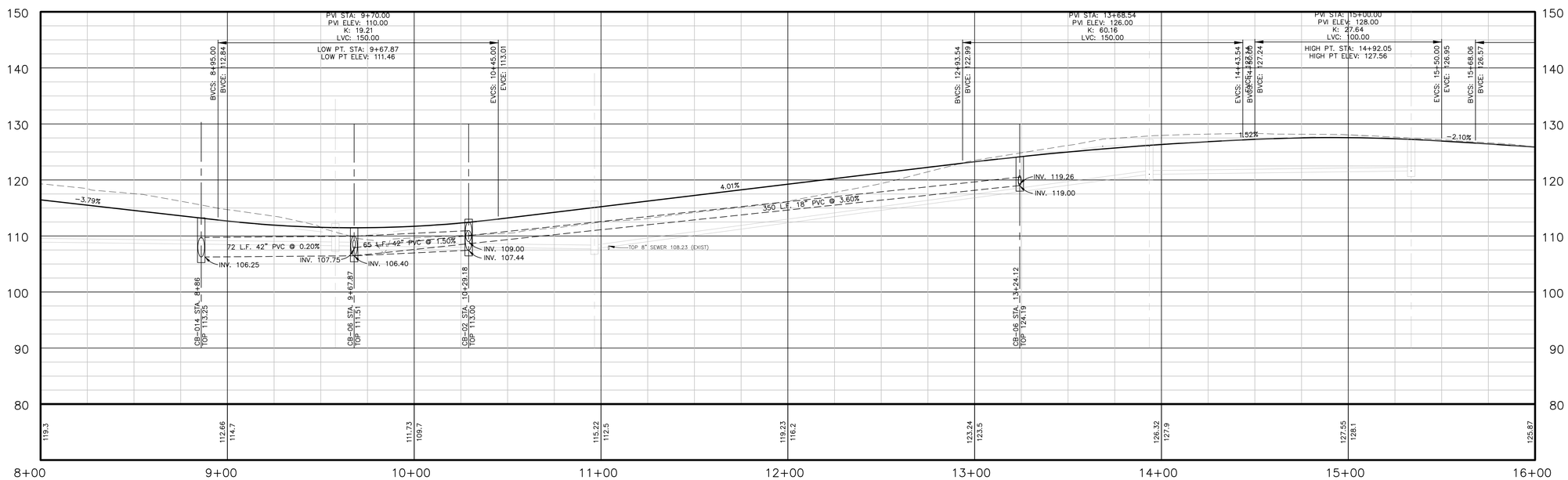

PLAN 1" = 30'
PROFILE 1" = 10'

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4/28/17

PROJECT: A NEW HOUSING DEVELOPMENT

BRIARWOOD ESTATES

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XXX SOUTH WASHINGTON STREET
BASTROP, LA 71221

DRAWING REVISIONS

DATE	DESCRIPTION
10/16/17	RE-ISSUE FOR PRICING
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Drawn By: DAH
Checked By: DRA
SHEET
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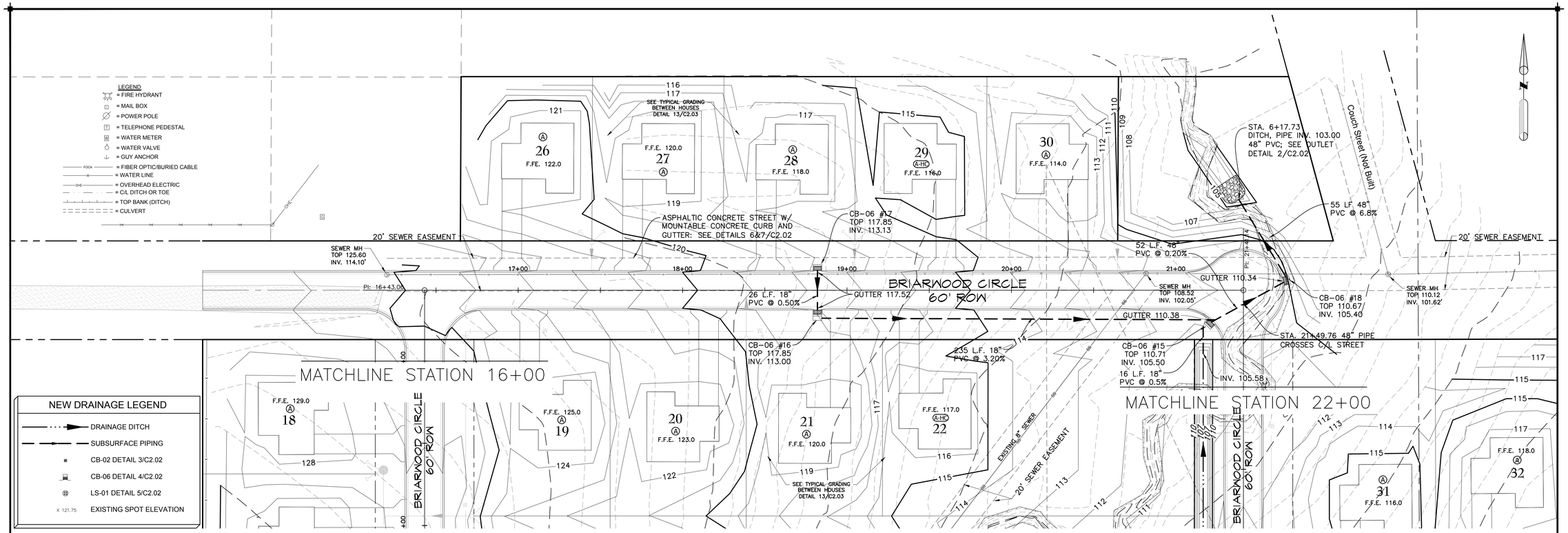
Project No.: 16-0025
File No.:
DESCRIPTION:
STREETS & DRAINAGE
SHEET 2 OF 4



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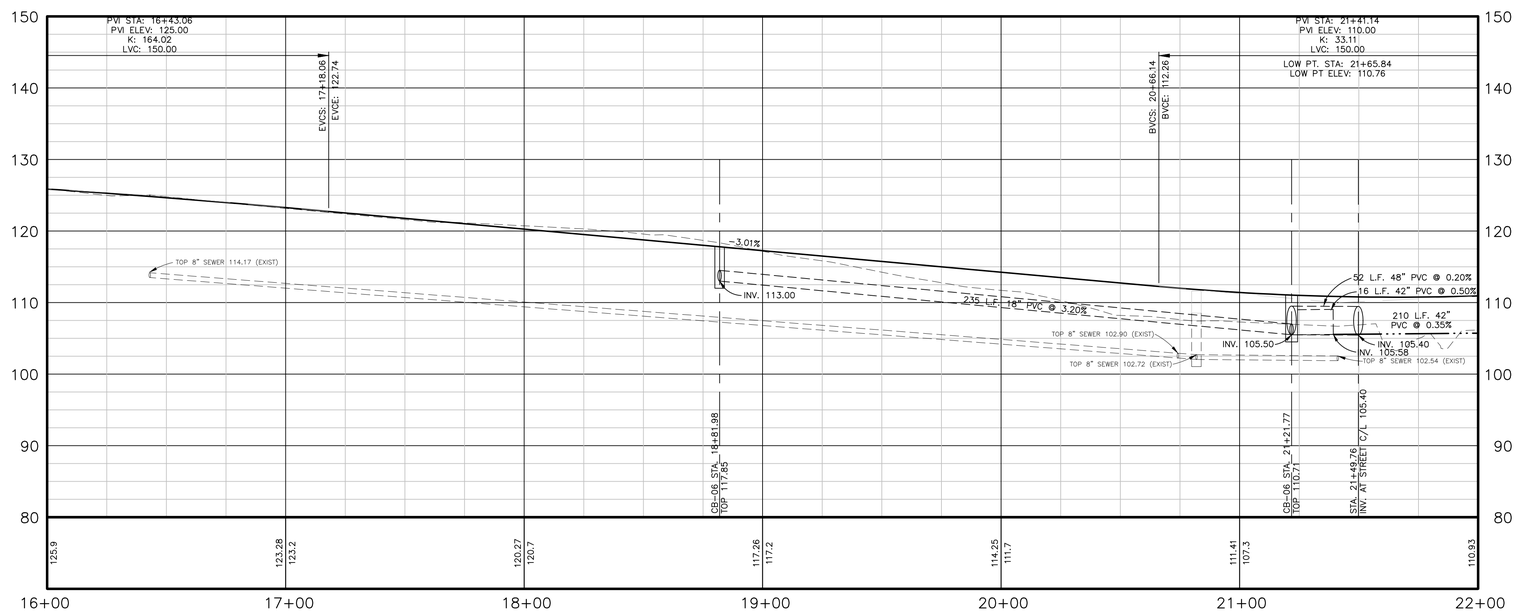

PLAN 1" = 30'
PROFILE 1" = 10'

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4/28/17

PROJECT: A NEW HOUSING DEVELOPMENT

BRIARWOOD ESTATES

A KWL PROPERTIES, LLC DEVELOPMENT
XXX SOUTH WASHINGTON STREET
BASTROP, LA 71221

DRAWING REVISIONS

DATE	DESCRIPTION
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Drawn By: DAH
Checked By: DRA
SHEET
C1.05
Date: 10.16.17
Project No.: 16-0025
File No.:
DESCRIPTION:
STREETS & DRAINAGE
SHEET 3 OF 4

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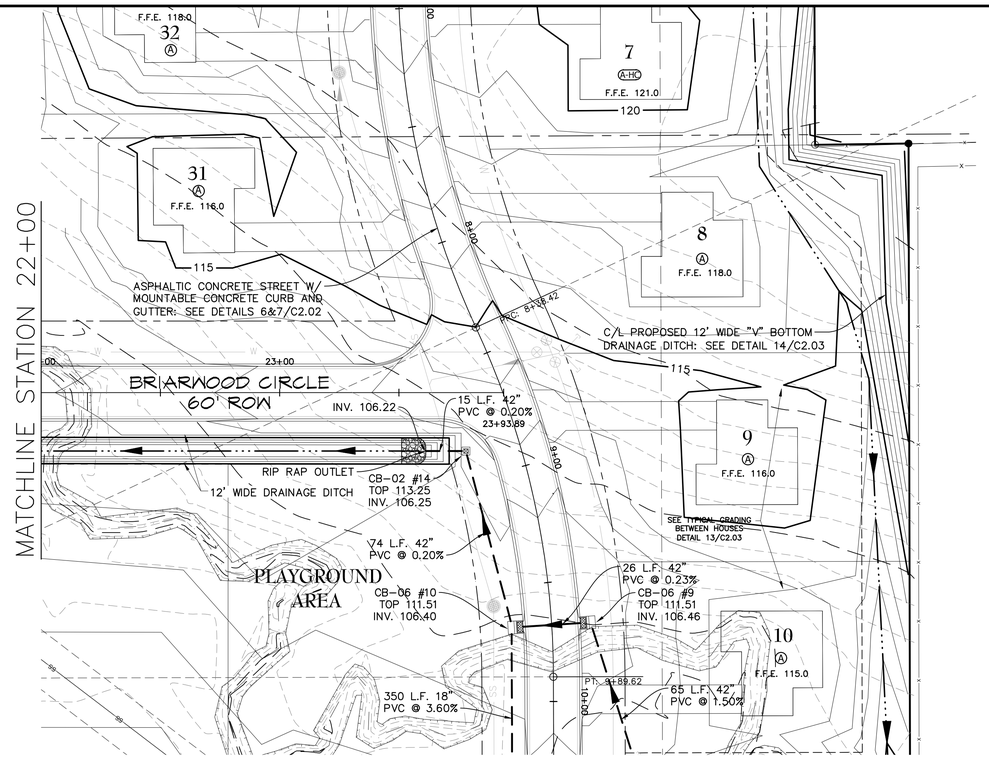
NEW DRAINAGE LEGEND

- DRAINAGE DITCH
- SUBSURFACE PIPING
- CB-02 DETAIL 3/C2.02
- CB-06 DETAIL 4/C2.02
- LS-01 DETAIL 5/C2.02
- X 121.75 EXISTING SPOT ELEVATION

LEGEND
- = FIRE HYDRANT
- = MAIL BOX
- = POWER POLE
- = TELEPHONE PEDESTAL
- = WATER METER
- = WATER VALVE
- = GUY ANCHOR
- FOCA = FIBER OPTIC/BURIED CABLE
- W = WATER LINE
- OHE = OVERHEAD ELECTRIC
- = C/L DITCH OR TOE
- = TOP BANK (DITCH)
- = CULVERT



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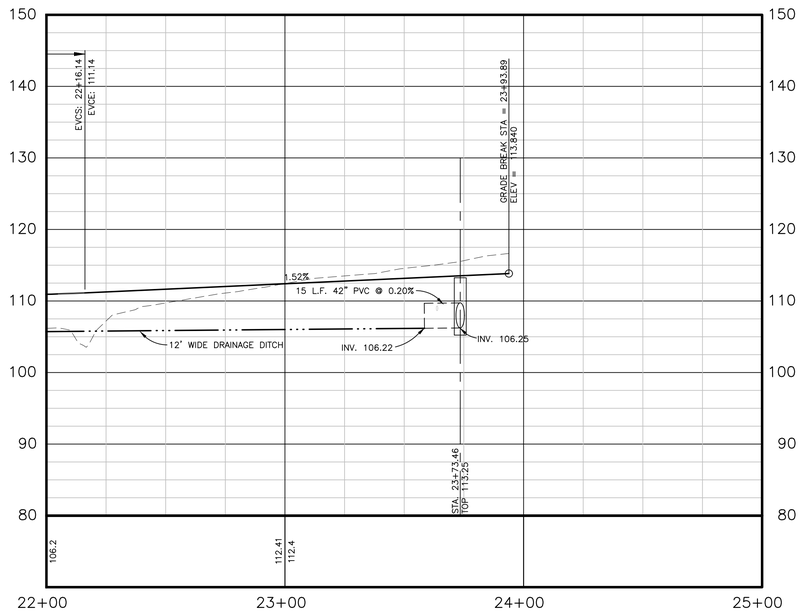

PLAN 1" = 30'
PROFILE 1" = 10'

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DON R. ARRINGTON
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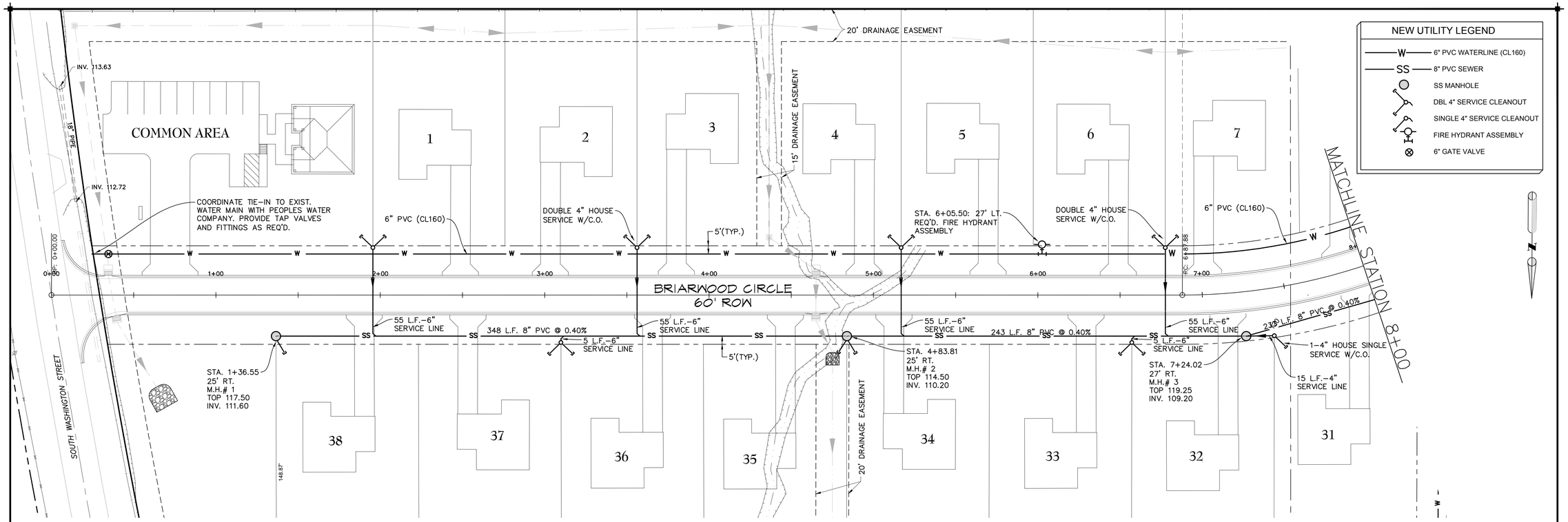
PROFESSIONAL ENGINEER
IN
CIVIL ENGINEERING
4/28/17

PROJECT: A NEW HOUSING DEVELOPMENT
BRIARWOOD ESTATES
A KWL PROPERTIES, LLC DEVELOPMENT
XXX SOUTH WASHINGTON STREET
BASTROP, LA 71221

DRAWING REVISIONS

DATE	DESCRIPTION
10/16/17	RE-ISSUE FOR PRICING
12/14/17	RE-ISSUE FOR PRICING

Drawn By: DAH
Checked By: DRA
SHEET
C1.06
Date: 10.16.17
Project No.: 16-0025
File No.:
DESCRIPTION:
STREETS & DRAINAGES
SHEET 4 OF 4



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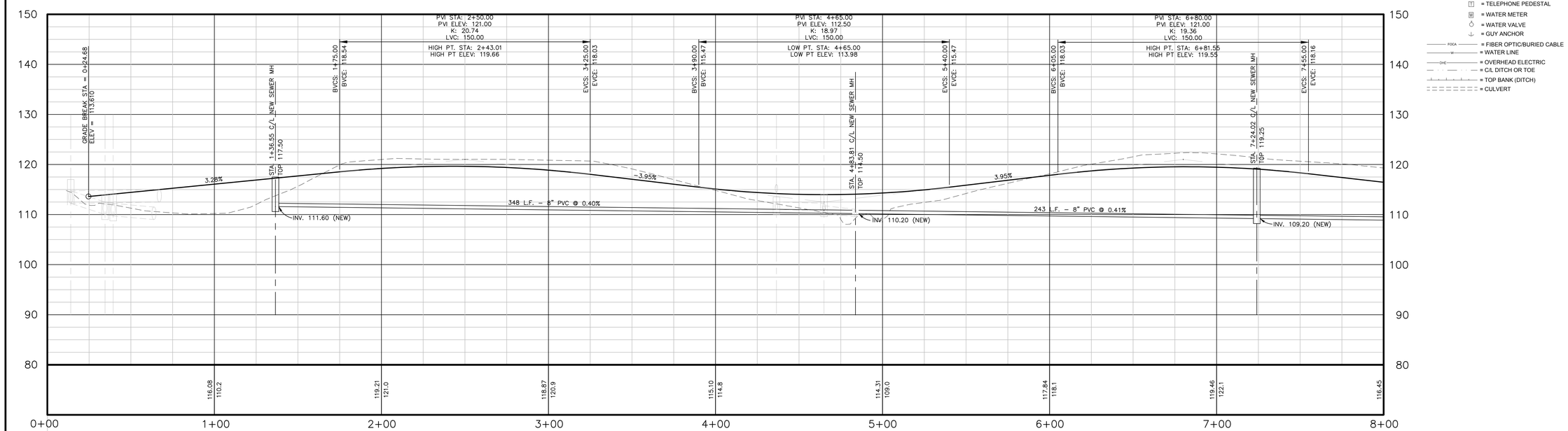

PLAN 1" = 30'
PROFILE 1" = 10'

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Drawn By: DAH
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SHEET
C1.07
Date: 10.16.17
Project No.: 16-0025
File No.:
DESCRIPTION:
UTILITIES
SHEET 1 OF 4

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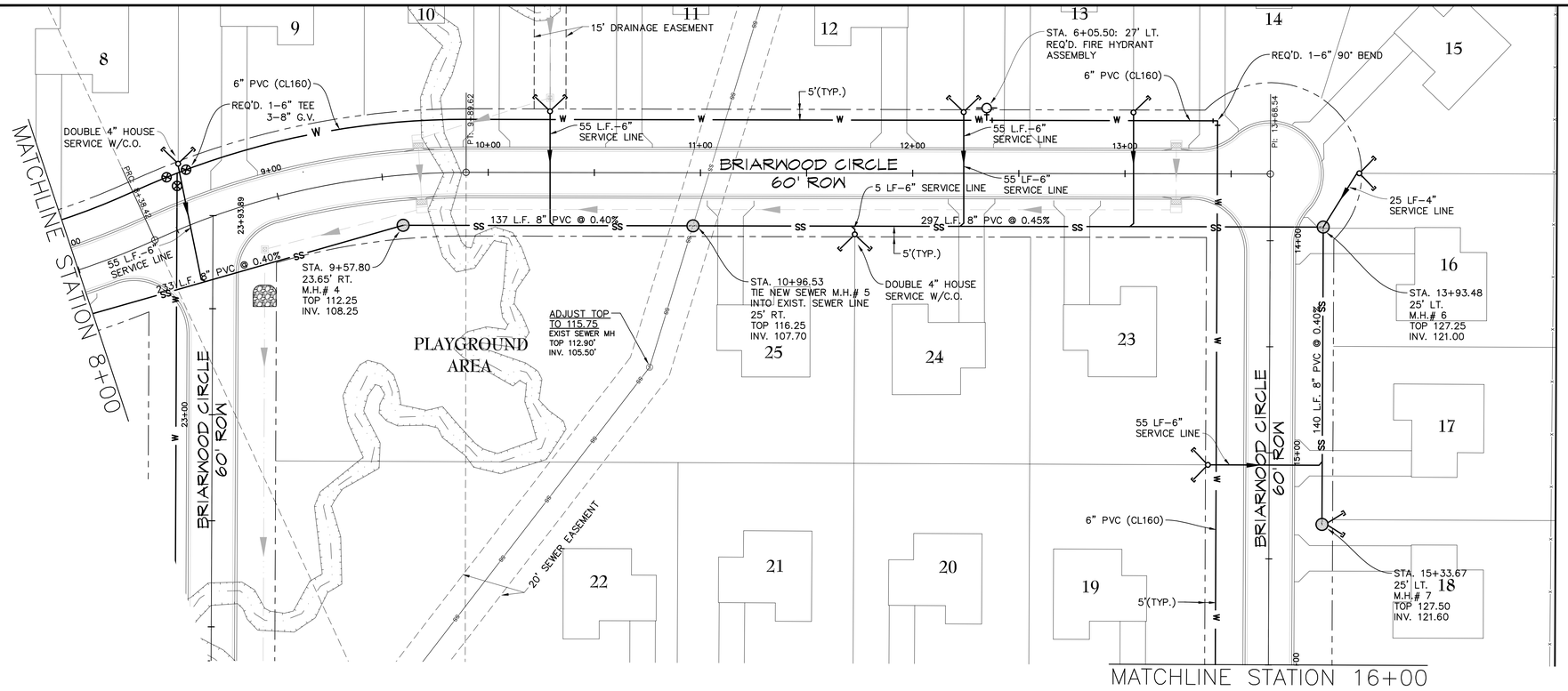
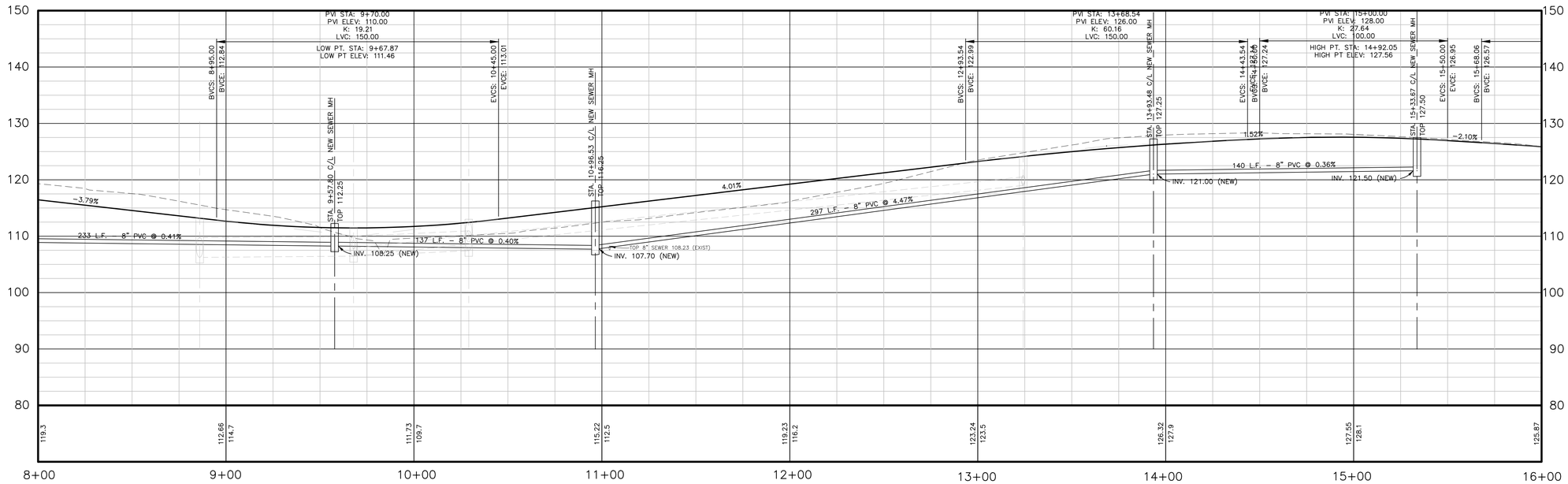


PLAN
SCALE: 1" = 30'

NEW UTILITY LEGEND

- W — 6" PVC WATERLINE (CL160)
- SS — 8" PVC SEWER
- SS MANHOLE
- DBL 4" SERVICE CLEANOUT
- SINGLE 4" SERVICE CLEANOUT
- FIRE HYDRANT ASSEMBLY
- 6" GATE VALVE

LEGEND
- = FIRE HYDRANT
- = MAIL BOX
- = POWER POLE
- = TELEPHONE PEDESTAL
- = WATER METER
- = WATER VALVE
- = GUY ANCHOR
- = FIBER OPTIC/BURIED CABLE
- = WATER LINE
- = OVERHEAD ELECTRIC
- = C/L DITCH OR TOE
- = TOP BANK (DITCH)
- = CULVERT



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4/28/17

PROJECT: A NEW HOUSING DEVELOPMENT

BRIARWOOD ESTATES

A KWL PROPERTIES, LLC DEVELOPMENT
XXX SOUTH WASHINGTON STREET
BASTROP, LA 71221

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Drawn By: DAH
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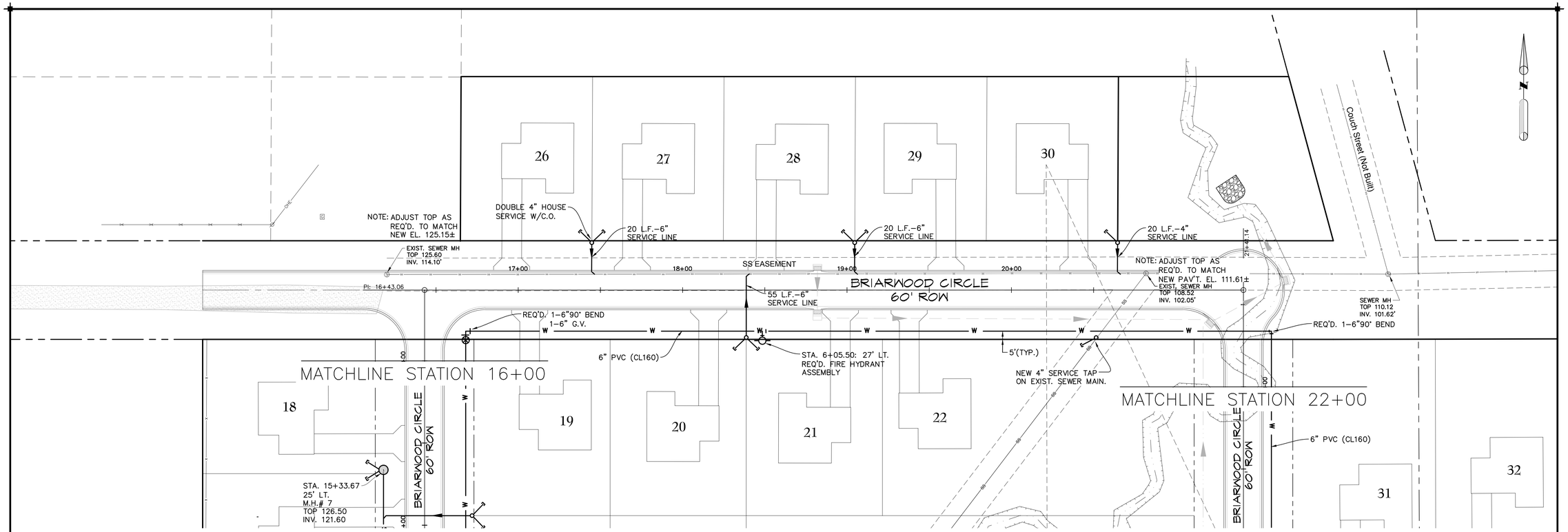
C1.08
Date: 10.16.17
Project No.: 16-0025
File No.:
DESCRIPTION:
UTILITIES
SHEET 2 OF 4



PLAN
SCALE: 1" = 30'

NEW UTILITY LEGEND

- W — 6" PVC WATERLINE (CL160)
- SS — 8" PVC SEWER
- SS MANHOLE
- DBL 4" SERVICE CLEANOUT
- SINGLE 4" SERVICE CLEANOUT
- FIRE HYDRANT ASSEMBLY
- 6" GATE VALVE

LEGEND
- = FIRE HYDRANT
- = MAIL BOX
- = POWER POLE
- = TELEPHONE PEDESTAL
- = WATER METER
- = WATER VALVE
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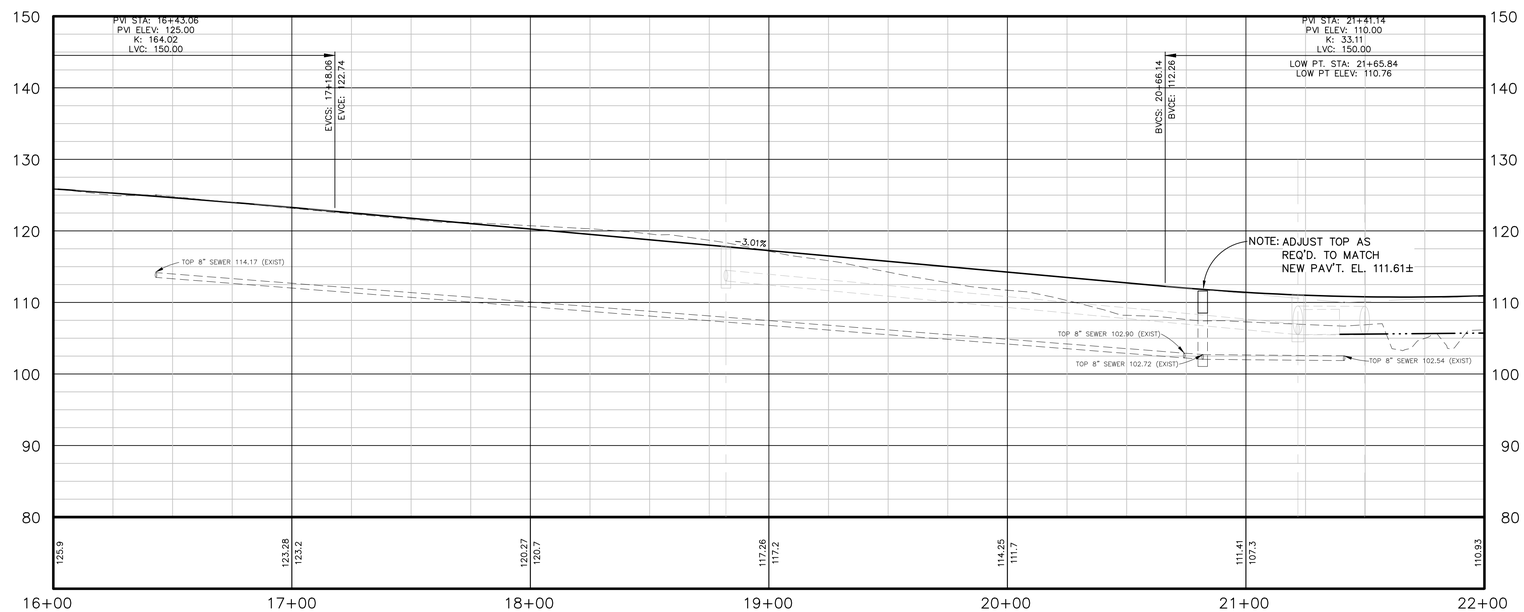

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BRIARWOOD ESTATES

A KWL PROPERTIES, LLC DEVELOPMENT
XXX SOUTH WASHINGTON STREET
BASTROP, LA 71221

DRAWING REVISIONS

DATE	DESCRIPTION
10/16/17	RE-ISSUE FOR PRICING
12/14/17	RE-ISSUE FOR PRICING

Drawn By: DAH
Checked By: DRA
SHEET
C1.09
Date: 10.16.17
Project No.: 16-0025
File No.:
DESCRIPTION:
UTILITIES
SHEET 3 OF 4

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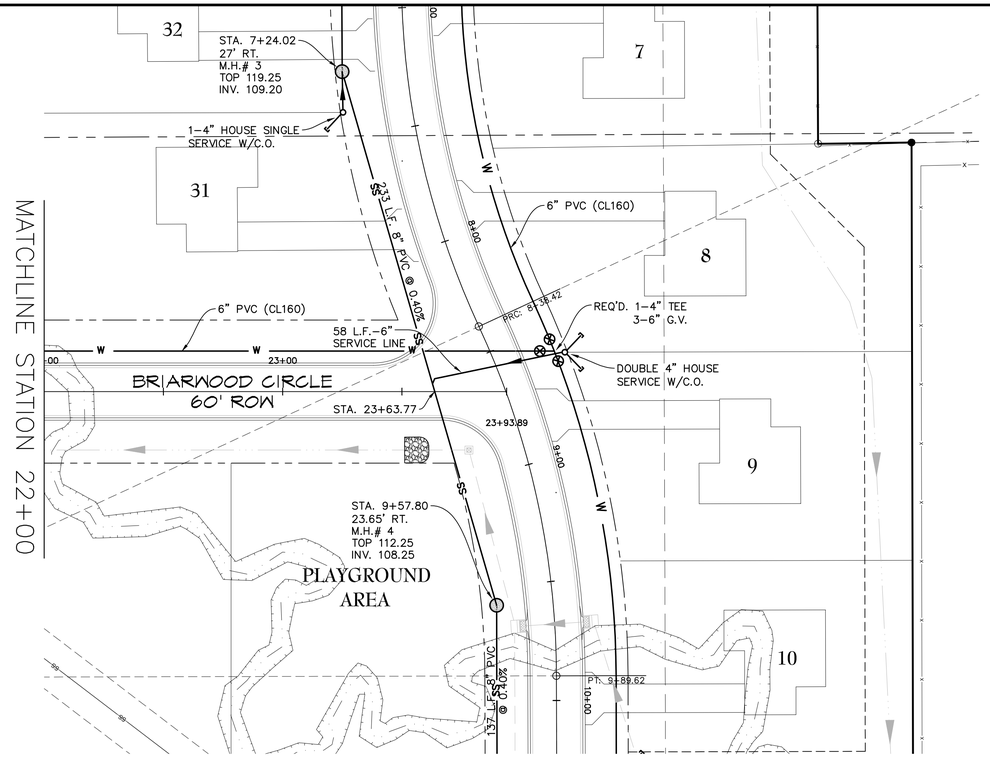
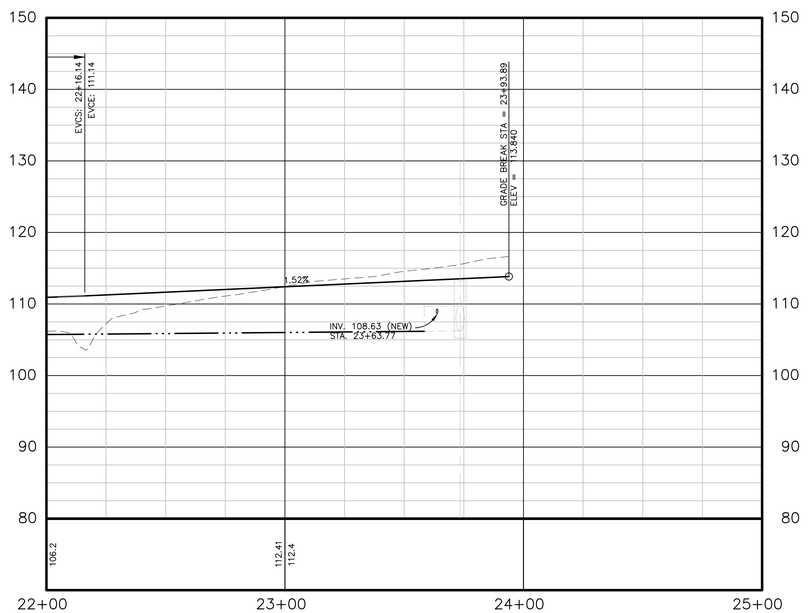
NEW UTILITY LEGEND

- W — 6" PVC WATERLINE (CL160)
- SS — 8" PVC SEWER
- SS MANHOLE
- DBL 4" SERVICE CLEANOUT
- SINGLE 4" SERVICE CLEANOUT
- FIRE HYDRANT ASSEMBLY
- 6" GATE VALVE

LEGEND
- = FIRE HYDRANT
- = MAIL BOX
- = POWER POLE
- = TELEPHONE PEDESTAL
- = WATER METER
- = WATER VALVE
- = GUY ANCHOR
- FOCA = FIBER OPTIC/BURIED CABLE
- W = WATER LINE
- OHE = OVERHEAD ELECTRIC
- = C/L DITCH OR TOE
- = TOP BANK (DITCH)
- = CULVERT



PLAN
SCALE: 1" = 30'



PLAN 1" = 30'
PROFILE 1" = 10'

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License No. 28200
PROFESSIONAL ENGINEER
IN
CIVIL ENGINEERING
4/28/17

PROJECT: A NEW HOUSING DEVELOPMENT

BRIARWOOD ESTATES

A KWL PROPERTIES, LLC DEVELOPMENT
XXX SOUTH WASHINGTON STREET
BASTROP, LA 71221

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DATE	DESCRIPTION
10/16/17	RE-ISSUE FOR PRICING
12/14/17	RE-ISSUE FOR PRICING

Drawn By: DAH
Checked By: DRA
SHEET
C1.10
Date: 10.16.17
Project No.: 16-0025
File No.:
DESCRIPTION:
UTILITIES
SHEET 4 OF 4

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168357 Base-1

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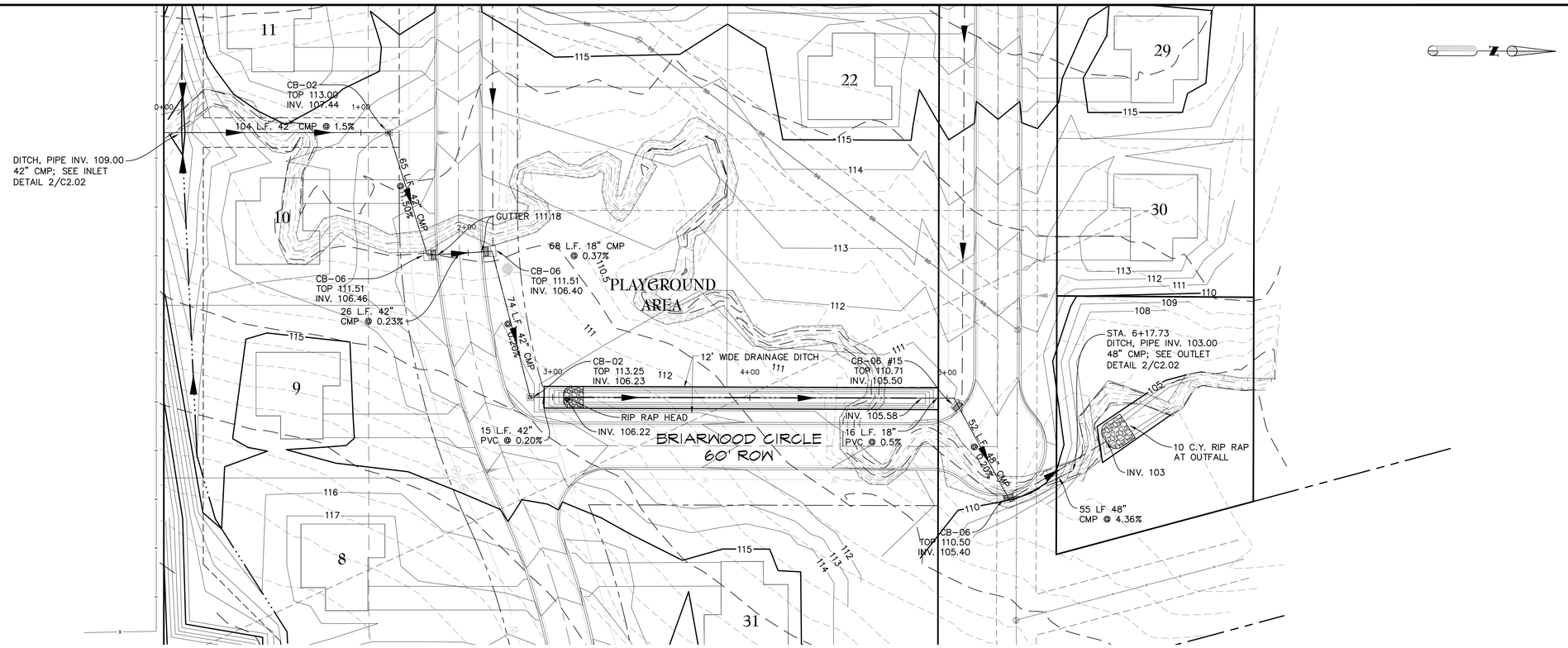
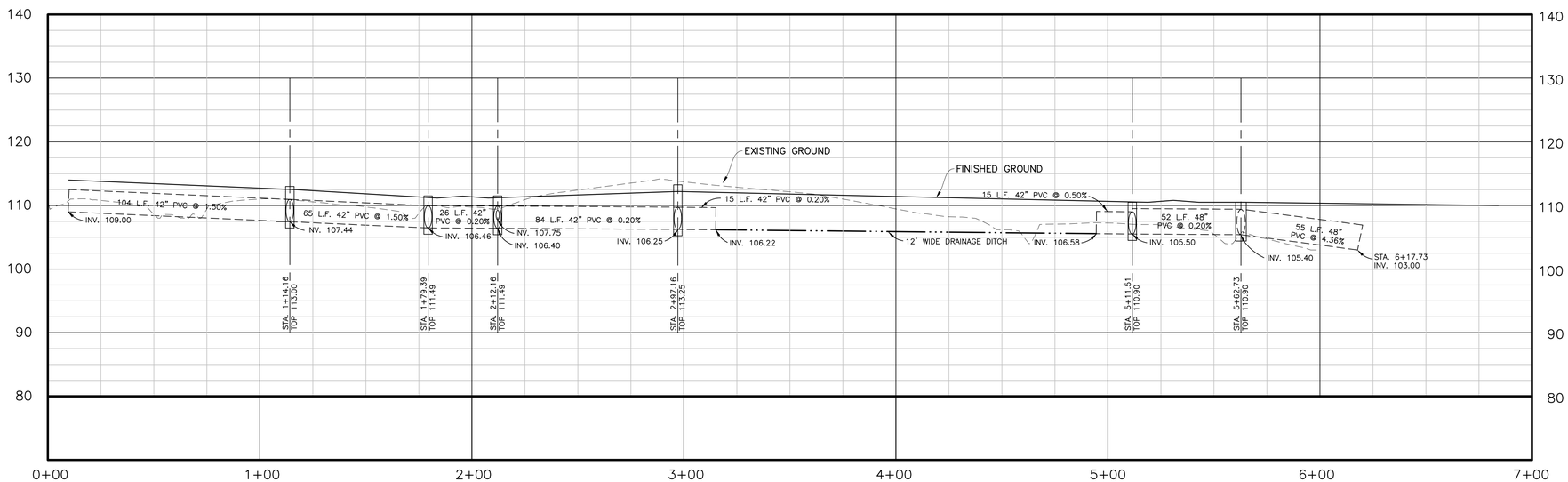


PLAN
SCALE: 1" = 30'



PLAN 1" = 30'
PROFILE 1" = 10'

168357 Base-1

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BASTROP, LA 71221

DRAWING REVISIONS

DATE	DESCRIPTION
10/16/17	RE-ISSUE FOR PRICING
12/14/17	RE-ISSUE FOR PRICING

Drawn By: DAH
Checked By: DRA
SHEET
C1.11
Date: 10.16.17
Project No.: 16-0025
File No.:
DESCRIPTION:
OUTFALL
DRAINAGE PIPE

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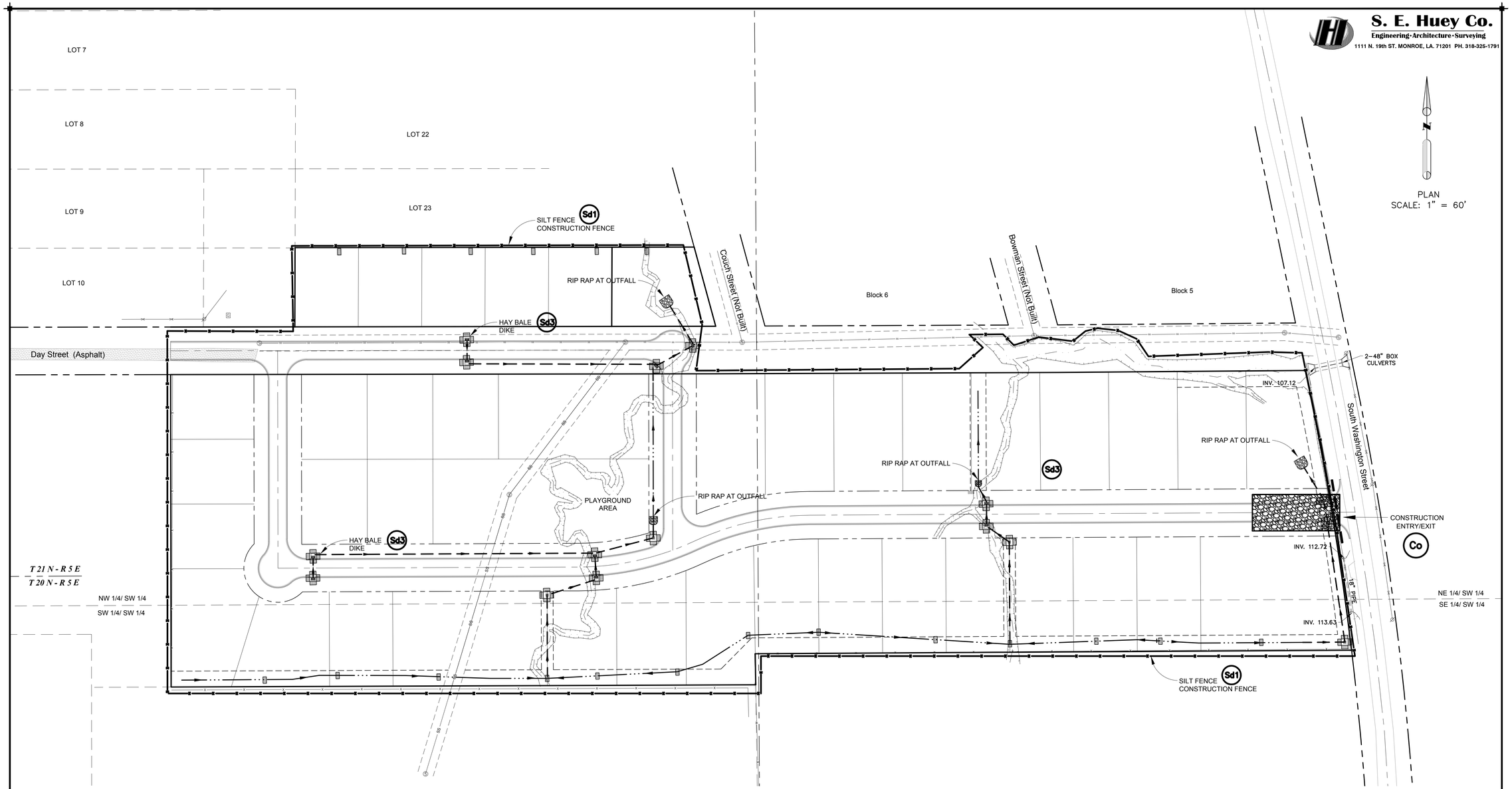
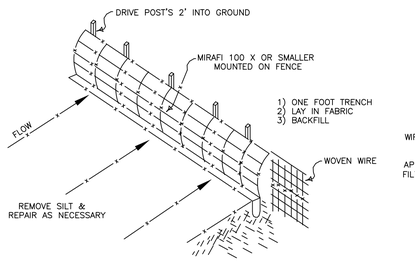
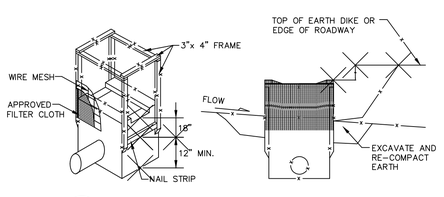


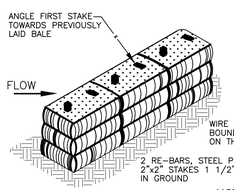
PLAN
SCALE: 1" = 60'



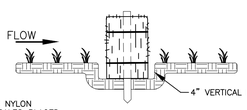
Sd1 PROVIDE SILT FENCE (AS INDICATED) UNTIL CONSTRUCTION IS COMPLETE.



Sd3 PROVIDE FILTER CLOTH EROSION CONTROL AS INDICATED OR STACKED & STAKED HAY BALES AS INDICATED ABOVE AROUND ALL NEW DRAINAGE STRUCTURES.



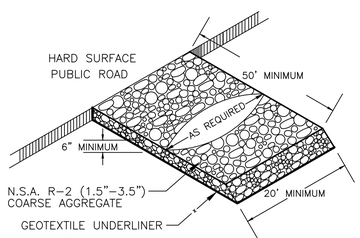
ANCHORING DETAIL



EMBEDDING DETAIL

NOTE:
-ANCHOR AND EMBED INTO SOIL TO PREVENT WASHOUT OR WATER WORKING UNDER BARRIER.
-REPAIR OR REPLACEMENT MUST BE MADE PROMPTLY AS NEEDED.

NTS STAKED HAYBALE BARRIERS
Figure 6-13.2



Co CRUSHED STONE CONSTRUCTION EXIT

EROSION CONTROL KEY:

Sd1	SILT FENCE OR C.O.A. AND DEBRIS FENCE
	SILT FILTER/BARRIER
Sd3	SEDIMENT TRAP
	SEDIMENT CONTROL DEVICE
Co	TEMP. CONSTRUCTION EXIT
St1	RIP RAP W/ STONE SIZE
St2	STORM WATER DETENTION STRUCTURE
Dk1	DIVERSION DIKE
Dn2	DOWNDRAIN STRC.

E778.58

NOTE:
REFERENCE LOUISIANA DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT STANDARD PLANS AND DETAILS SHEET EC01 FOR TEMPORARY EROSION CONTROL SPECIFICATIONS.

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10/16/17	RE-ISSUE FOR PRICING
12/14/17	RE-ISSUE FOR PRICING

Drawn By: DAH
Checked By: DRA
SHEET
C1.12
Date: 10.16.17
Project No.: 16-0025
File No.:
DESCRIPTION:

EROSION CONTROL MAP

168357 Base-1

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PLAN
SCALE: 1" = 30'

Couch Street (Not Built)
Bowman Street (Not Built)
Block 6
Block 5
South Washington Street
INV. 103.00
LOW PT.
DITCH EL. 109.00
2-48" BOX CULVERTS
INV. 107.12
6" WATERLINE
INV. 112.72
INV. 113.63
18" PIPE
PIPE INV. 114.50
PIPE INV. 112.50
HIGH PT. 119.55
HIGH PT. 119.10
LOW PT. 114.50
HIGH PT. 119.66
LOW PT. 113.98
LOW PT. 113.70
T.B.
T.B.
F.F.E. 116.0
F.F.E. 118.0
F.F.E. 117.0
F.F.E. 115.0
F.F.E. 113.0
F.F.E. 115.0
F.F.E. 118.0
F.F.E. 116.0
F.F.E. 121.0
F.F.E. 121.0
F.F.E. 119.0
F.F.E. 118.0
F.F.E. 118.0
F.F.E. 121.0
F.F.E. 123.0
F.F.E. 120.0
F.F.E. 118.0

NEW DRAINAGE LEGEND

- DRAINAGE DITCH
- SUBSURFACE PIPING
- CATCH BASINS
- X 121.75 — EXISTING SPOT ELEVATION
- 123.25 — NEW SPOT ELEVATION
- 110 — EXISTING CONTOURS
- 125 — FINISHED CONTOURS

168357 Base-1

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Checked By: DRA

SHEET
C1.13

Date: 10.16.17
Project No.: 16-0025
File No.:

DESCRIPTION:

GRADING MAP
SHEET 1 OF 2

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NEW DRAINAGE LEGEND

- DRAINAGE DITCH
- SUBSURFACE PIPING
- CATCH BASINS
- X 121.75 — EXISTING SPOT ELEVATION
- (123.25) — NEW SPOT ELEVATION
- 110 — EXISTING CONTOURS
- 125 — FINISHED CONTOURS

Couch Street (Not Built)

PLAN
SCALE: 1" = 30'

PIPE INV. 103.00

PLAYGROUND AREA

PIPE INV. 109.50

NW 1/4/ SW 1/4

SW 1/4/ SW 1/4

168357 Base-1

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Checked By: DRA

SHEET

C1.14

Date: 10.16.17
Project No.: 16-0025
File No.:

DESCRIPTION:

GRADING MAP
SHEET 2 OF 2

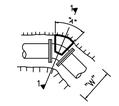
1. VOLUME OF CONC. FOR VERTICAL OVERBENDS SHALL BE SIZED FOR THE THE MAXIMUM DESIGN PRESSURE +100 P.S.I. SURGE BY THE RESIDENT ENGINEER.
2. NO SPECIAL PAYMENT FOR REINF. RODS REQ'D IN OVERBENDS.
3. SIZE OF TEE REFERS TO BRANCH SIZE.

SCHEDULE OF DIMENSIONS FOR MASS CONCRETE THRUST BLOCKS FOR 2,000 P.S.F. SOIL

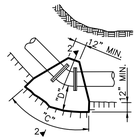
TYPE OF FITTING / PIPE SIZE	HORIZONTAL BENDS 90° "A" FT.-IN.	"B" FT.-IN.	45° "A" FT.-IN.	"B" FT.-IN.	22 1/2° "A" FT.-IN.	"B" FT.-IN.	11 1/4° "A" FT.-IN.	"B" FT.-IN.	5 5/8° "A" FT.-IN.	"B" FT.-IN.
4" & 6"	2–6	1–0	2–0	1–0	1–0	1–0	1–0	1–0	1–0	1–0
8"	3–6	2–0	2–6	1–6	2–0	1–0	1–0	1–0	1–0	1–0
10"	4–0	2–6	3–0	2–0	2–0	1–6	1–0	1–6	1–0	1–6
12"	5–0	3–0	4–0	2–0	2–0	2–0	1–0	2–0	1–0	2–0
16"	6–0	4–6	4–6	3–0	3–6	2–0	1–6	2–0	1–6	2–0
20"	6–6	6–0	5–0	4–6	4–0	3–0	2–0	2–6	2–0	2–6
24"	8–0	7–6	6–6	5–6	4–6	3–6	2–0	3–9	2–0	3–9
30"	10–0	9–6	7–6	6–9	5–6	4–6	2–6	5–0	2–0	5–0

TYPE OF FITTING / PIPE SIZE	VERTICAL UNDERBENDS 90° "C" FT.-IN.	"D" FT.-IN.	45° "C" FT.-IN.	"D" FT.-IN.	22 1/2° "C" FT.-IN.	"D" FT.-IN.	11 1/4° "C" FT.-IN.	"D" FT.-IN.	5 5/8° "C" FT.-IN.	"D" FT.-IN.
4" & 6"	2–6	1–0	2–0	1–0	1–0	1–0	1–9	1–0	1–6	1–0
8"	3–0	1–0	2–6	1–0	2–0	1–0	1–9	1–0	1–9	1–0
10"	3–6	1–0	3–0	1–0	2–3	1–0	2–0	1–0	1–9	1–0
12"	4–0	1–0	3–6	1–0	2–6	1–0	2–0	1–0	1–9	1–0
16"	7–6	1–0	6–0	1–0	4–6	1–0	3–0	1–0	2–9	1–0
20"	6–6	1–0	5–0	1–0	3–6	1–0	2–3	1–0	2–0	1–0
24"	7–9	1–6	6–0	1–6	4–0	1–6	2–9	1–6	2–6	1–6
30"	9–9	1–6	7–0	1–6	5–0	1–6	3–6	1–6	3–3	1–6

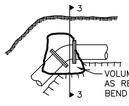
TYPE OF FITTING / PIPE SIZE	VERTICAL OVERBENDS 90° "A" FT.-IN.	"B.A." SQ. FT.	REINF. RODS	"C" CU. YDS.	45° "A" FT.-IN.	"B.A." SQ. FT.	REINF. RODS	"C" CU. YDS.	22 1/2° "A" FT.-IN.	"B.A." SQ. FT.	REINF. RODS	"C" CU. YDS.	11 1/4° "A" FT.-IN.	"B.A." SQ. FT.	REINF. RODS	"C" CU. YDS.	5 5/8° "A" FT.-IN.	"B.A." SQ. FT.	REINF. RODS	"C" CU. YDS.	TEES & DEAD ENDS "A" FT.-IN.	"B" FT.-IN.	REDUCERS TYPICAL DIM. REQ'D SIZES	"A" FT.-IN.	"B" FT.-IN.
4" & 6"	2–6	1–0	2	#4	2–0	1–0	2	#4	1–0	1–0	2	#4	1–0	.5	1	#4	.25	1	#4	.25	2–6	1–0	6"x4"	1–0	0–6
8"	3–6	2–0	2	#4	2–6	1–0	2	#4	1–0	1–0	2	#4	1–0	.5	1	#4	.25	1	#4	.25	3–6	2–0	8"x6"	1–0	1–0
																							10"x6"	2–0	1–0
10"	4–0	2–6	3	#4	3–0	1–6	3	#4	1–6	1–0	2	#4	1–0	.5	1	#4	.25	1	#4	.5	4–0	2–6	10"x8"	1–6	1–0
																							12"x6"	2–0	2–0
12"	5–0	3–0	4	#4	4–0	2–0	4	#4	2–0	1–0	2	#4	1–0	.5	1	#4	.5	1	#4	.5	5–6	3–0	12"x8"	2–0	1–6
																							12"x10"	2–0	1–0
16"	6–0	4–6	4	#4	5–0	3–0	5	#4	2–6	1–6	3	#4	1–6	.5	1	#4	.5	1	#4	.5	6–0	5–0	16"x6"	3–0	2–6
																							16"x8"	3–0	2–6
																							16"x10"	2–6	2–0
20"	6–6	6–0	5	#4	6–0	4–0	6	#4	3–0	2–0	3	#4	2–0	1	2	#4	1	2	#4	1	6–0	5–0	20"x10"	3–0	1–9
																							20"x12"	3–0	1–0
																							20"x16"	2–6	1–0
24"	8–0	7–6	6	#5	7–0	5–0	7	#5	3–6	2–0	4	#4	2–6	1	2	#4	1	3	#4	1	7–0	6–0	24"x10"	4–0	2–6
																							24"x20"	3–0	0–6
30"	10–0	9–6	7–6	6–9	5–6	4–6	2–6	5–0	2–0	5–0	4	#4	2–6	1	2	#4	1	3	#4	1	8–6	7–9	30"x12"	5–6	2–6
																							30"x24"	5–6	1–3



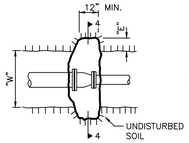
PLAN
HORIZONTAL BEND
THRUST BLOCKING



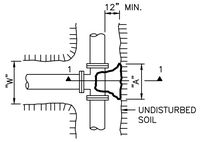
ELEV.
VERTICAL UNDERBEND
THRUST BLOCKING



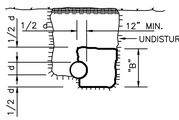
ELEV.
VERTICAL OVERBEND
THRUST BLOCKING



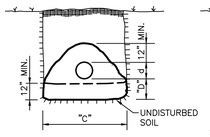
PLAN
REDUCER
THRUST BLOCKING



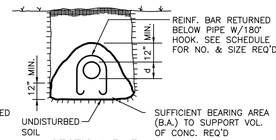
PLAN
TEE
THRUST BLOCKING



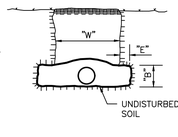
SECTION 1–1



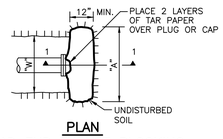
SECTION 2–2



SECTION 3–3



SECTION 4–4

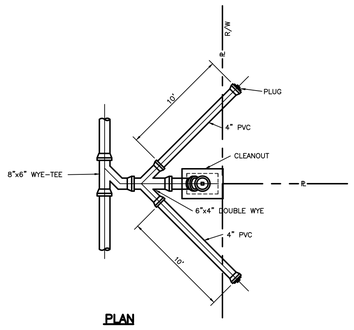


PLAN
DEAD END THRUST BLOCKING

STANDARD MASS CONCRETE THRUST BLOCKING FOR ALL PRESSURE PIPE

SCALE: NONE

NOTE: BLOCKING DETAILS APPLY TO WATER MAINS AND SEWER FORCE MAINS.



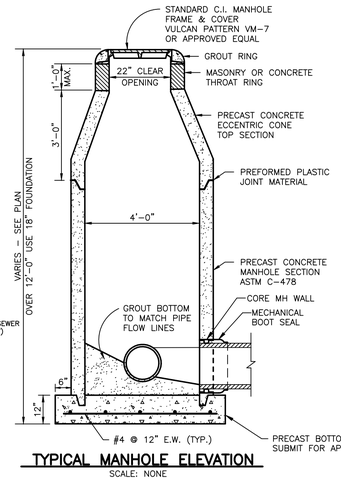
PLAN

SECTION

DOUBLE WYE SERVICE
INLET WITH CLEANOUT

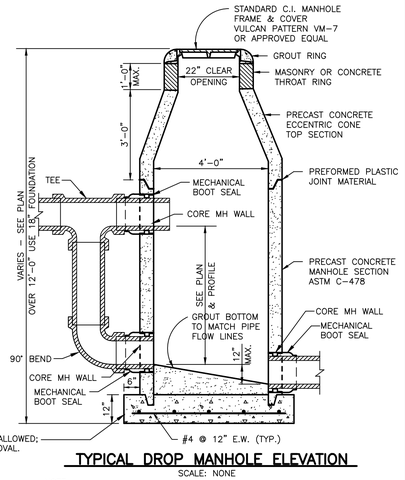
SCALE: NONE

NOTE: WHERE SINGLE SERVICES ARE SHOWN, FURNISH AS 4" AND PROVIDE CLEANOUT WITH BOX AS SHOWN FOR DOUBLE SERVICE



TYPICAL MANHOLE ELEVATION

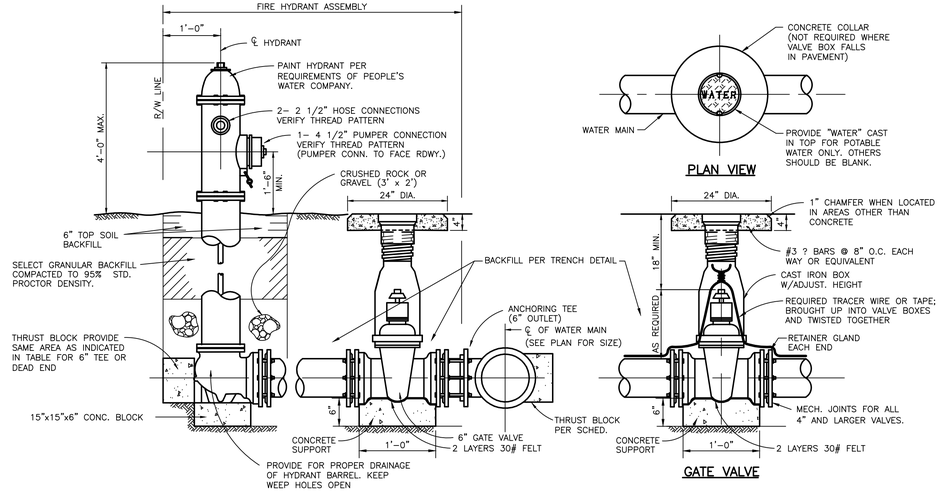
SCALE: NONE



TYPICAL DROP MANHOLE ELEVATION

SCALE: NONE

NOTE:
WHERE DROP INLET IN INSTALLED INTO AN EXISTING MANHOLE CAREFULLY BREAK NEW PIPE OPENINGS INTO MANHOLE AND SEAL AROUND PIPE WITH EPOXY GROUT.



STANDARD FIRE HYDRANT ASSEMBLY DETAILS

SCALE: NONE

PLAN VIEW

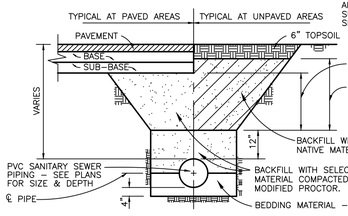
GATE VALVE

STANDARD VALVE INSTALLATION DETAILS

SCALE: NONE

NOTE: VALVES AND HYDRANTS SHALL BE FURNISHED TO MEET THE SPECIFICATIONS OF PEOPLE'S WATER COMPANY.

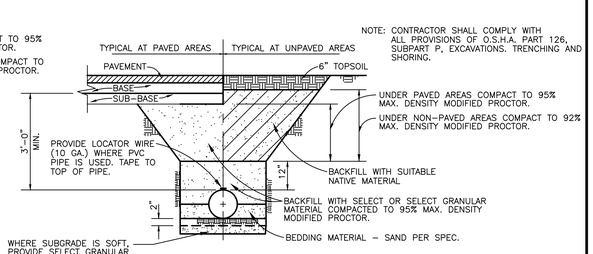
NOTE: CONTRACTOR SHALL COMPLY WITH ALL PROVISIONS OF O.S.H.A. PART 126, SUBPART P, EXCAVATIONS. TRENCHING AND SHORING.



TYPICAL TRENCH DETAIL
AT PVC SANITARY SEWER MAIN

SCALE: NONE

NOTE: CONTRACTOR SHALL COMPLY WITH ALL PROVISIONS OF O.S.H.A. PART 126, SUBPART P, EXCAVATIONS. TRENCHING AND SHORING.



TYPICAL TRENCH DETAIL
AT WATER MAIN

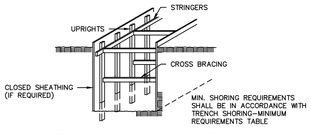
SCALE: NONE

TRENCH SHORING–MINIMUM REQUIREMENTS

DEPTH OF TRENCH	KIND OF CONDITION OF EARTH	UPRIGHTS MIN. DIMENSION	UPRIGHTS MAX. SPACING	STRINGERS MIN. DIMEN.	STRINGERS MAX. SPA.	CROSS BRACES WIDTH OF TRENCH UP TO 3 FEET	3 TO 6 FEET	6 TO 9 FEET	9 TO 12 FEET	12 TO 15 FEET	MAXIMUM SPACING VERT.	MAXIMUM SPACING HORIZ.
FEET		INCHES	FEET	INCHES	FEET	INCHES	INCHES	INCHES	INCHES	INCHES	FEET	FEET
5 TO 10	HARD, COMPACT	3x4 OR 2x6	6	–	–	2x6	4x4	4x6	6x6	6x8	4	6
	LIKELY TO CRACK	3x4 OR 2x6	3	4x6	4	2x6	4x4	4x6	6x6	6x8	4	6
	SOFT, SANDY OR FILLED	3x4 OR 2x6	CLOSE SHEETING	4x6	4	4x4	4x6	6x6	6x8	8x8	4	6
	HYDROSTATIC PRESSURE	3x4 OR 2x6	CLOSE SHEETING	6x8	4	4x4	4x6	6x6	6x8	8x8	4	6
10 TO 15	HARD	3x4 OR 2x6	4	4x6	4	4x4	4x6	6x6	6x8	8x8	4	6
	LIKELY TO CRACK	3x4 OR 2x6	2	4x6	4	4x4	4x6	6x6	6x8	8x8	4	6
	SOFT, SANDY OR FILLED	3x4 OR 2x6	CLOSE SHEETING	4x6	4	4x6	6x6	6x8	8x8	8x10	4	6
	HYDROSTATIC PRESSURE	3x6	CLOSE SHEETING	8x10	4	4x6	6x6	6x8	8x8	8x10	4	6
15 TO 20	ALL KINDS OF CONDITIONS	3x6	CLOSE SHEETING	4x12	4	4x12	6x8	8x8	8x10	10x10	4	6
OVER 20	ALL KINDS OF CONDITIONS	3x6	CLOSE SHEETING	6x8	4	4x12	8x8	8x12	10x10	10x12	4	6

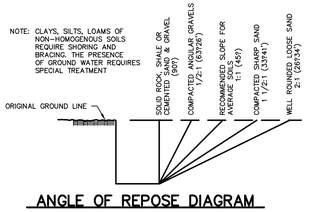
TRENCH JACKS MAY BE USED IN LIEU OF, OR IN COMBINATION WITH, CROSS BRACES. SHORING IS NOT REQUIRED IN SOLID ROCK, HARD SHALE, OR HARD SLAG. WHERE DESIRABLE, STEEL SHEET PILING AND BRACING OF EQUAL STRENGTH MAY BE SUBSTITUTED FOR WOOD.

MOVABLE TRENCH BOX MAY BE USED IN LIEU OF TRENCH SHORING.



TRENCH SHORING DETAIL

SCALE: NONE



ANGLE OF REPOSE DIAGRAM

SCALE: NONE

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DON R. ARRINGTON
License No. 28210
PROFESSIONAL ENGINEER
IN
CIVIL ENGINEERING
4/28/17

PROJECT: A NEW HOUSING DEVELOPMENT

BRIARWOOD ESTATES

A KWL PROPERTIES, LLC DEVELOPMENT
XXX SOUTH WASHINGTON STREET
BASTROP, LA 71221

DRAWING REVISIONS

DATE	DESCRIPTION
10/12/17	RE-ISSUE FOR PRICING
12/14/17	RE-ISSUE FOR PRICING

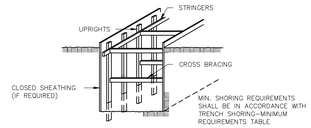
Drawn By: DAH
Checked By: DRA
SHEET
C2.01
Date: 10.16.17
Project No.: 16-0025
File No.:
DESCRIPTION:
DETAILS
SHEET 1 OF 3

TRENCH SHORING—MINIMUM REQUIREMENTS

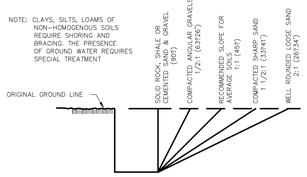
DEPTH OF TRENCH	KIND OF CONDITION OF EARTH	SIZE AND SPACING OF MEMBERS										
		UPRIGHTS		STRINGERS		CROSS BRACES					MAXIMUM SPACING	
						WIDTH OF TRENCH						
		MIN. DIMENSION	MAX. SPACING	MIN. DIMEN.	MAX. SPA.	UP TO 3 FEET	3 TO 6 FEET	6 TO 9 FEET	9 TO 12 FEET	12 TO 15 FEET	VERT.	HORIZ.
FEET		INCHES	FEET	INCHES	FEET	INCHES	INCHES	INCHES	INCHES	INCHES	FEET	FEET
5 TO 10	HARD, COMPACT	3x4 OR 2x6	6	–	–	2x6	4x4	4x6	6x6	6x8	4	6
	LIKELY TO CRACK	3x4 OR 2x6	3	4x6	4	2x6	4x4	4x6	6x6	6x8	4	6
	SOFT, SANDY OR FILLED	3x4 OR 2x6	CLOSE SHEETING	4x6	4	4x4	4x6	6x6	6x8	8x8	4	6
	HYDROSTATIC PRESSURE	3x4 OR 2x6	CLOSE SHEETING	6x8	4	4x4	4x6	6x6	6x8	8x8	4	6
10 TO 15	HARD	3x4 OR 2x6	4	4x6	4	4x4	4x6	6x6	6x8	8x8	4	6
	LIKELY TO CRACK	3x4 OR 2x6	2	4x6	4	4x4	4x6	6x6	6x8	8x8	4	6
	SOFT, SANDY OR FILLED	3x4 OR 2x6	CLOSE SHEETING	4x6	4	4x6	6x6	6x8	8x8	8x10	4	6
	HYDROSTATIC PRESSURE	3x6	CLOSE SHEETING	8x10	4	4x6	6x6	6x8	8x8	8x10	4	6
15 TO 20	ALL KINDS OF CONDITIONS	3x6	CLOSE SHEETING	4x12	4	4x12	6x8	8x8	8x10	10x10	4	6
OVER 20	ALL KINDS OF CONDITIONS	3x6	CLOSE SHEETING	6x8	4	4x12	8x8	8x12	10x10	10x12	4	6

TRENCH JACKS MAY BE USED IN LIEU OF, OR IN COMBINATION WITH, CROSS BRACES.
SHORING IS NOT REQUIRED IN SOLID ROCK, HARD SHALE, OR HARD SLAG.
WHERE DESIRABLE, STEEL SHEET PILING AND BRACING OF EQUAL STRENGTH MAY BE SUBSTITUTED FOR WOOD.

MOVABLE TRENCH BOX MAY BE USED IN LIEU OF TRENCH SHORING.

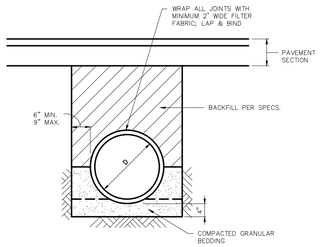


TRENCH SHORING DETAIL
SCALE: NONE



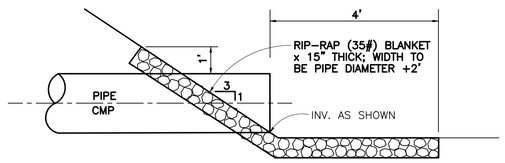
ANGLE OF REPOSE DIAGRAM
SCALE: NONE

TRENCHING & SHORING REQUIREMENTS

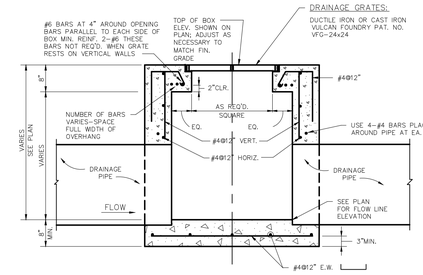


1 BEDDING DETAIL
SCALE: NONE

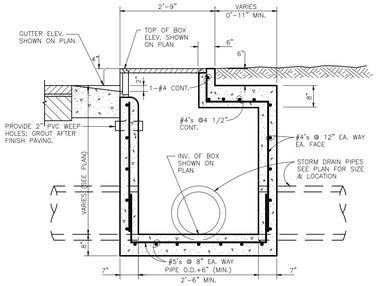
NOTE:
FOR TRENCH SHORING DETAILS AND MINIMUM REQUIREMENTS SEE DETAILS THIS SHEET



2 OUTFALL OR INLET
SCALE: NONE



SECTION "A–A"



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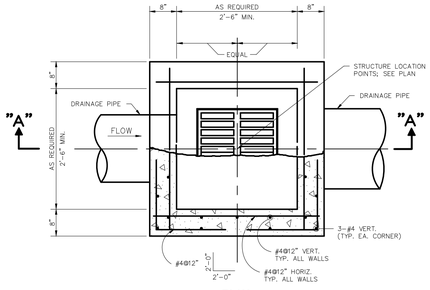
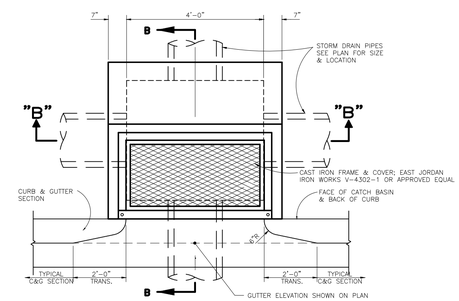


PLAN

3 DRAINAGE STRUCTURE CB-02
SCALE: NONE

NOTE: FOR ADDITIONAL INFORMATION SEE LA. DOTD STANDARD PLAN FOR "CB-01" OR "CB-02"

NOTE: A PRECAST CONCRETE CATCH BASIN IS ACCEPTABLE. SUBMIT FOR ENGINEERS APPROVAL.

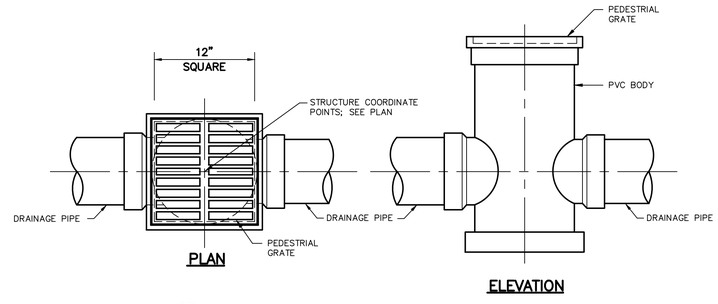


PLAN

4 DRAINAGE STRUCTURE CB-06
SCALE: NONE

NOTE: FOR ADDITIONAL INFORMATION SEE LA. DOTD STANDARD PLAN FOR "CB-06"

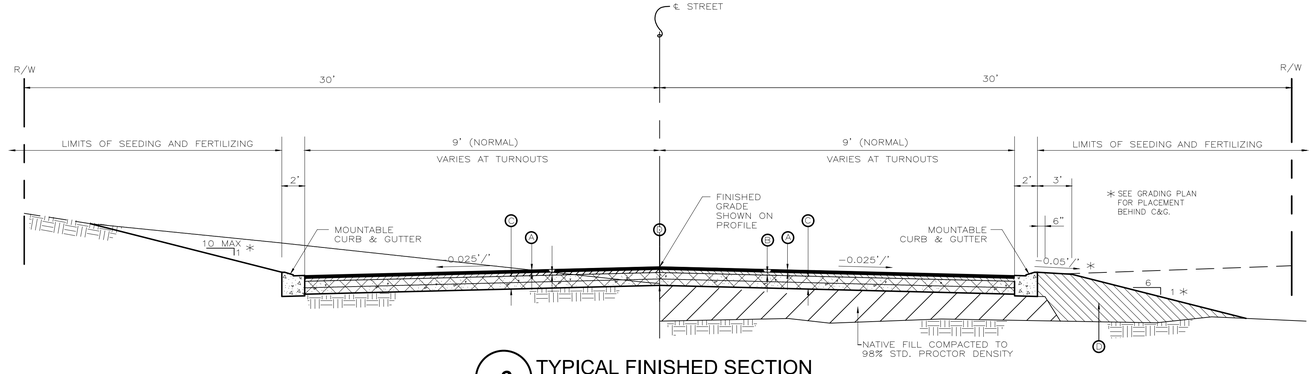
NOTE: STANDARD CURB INLET PER LDOT STANDARDS MAY BE USED. SUBMIT FOR APPROVAL BY ENGINEER.



PLAN

ELEVATION

5 LANDSCAPE DRAIN LS-01
SCALE: NONE



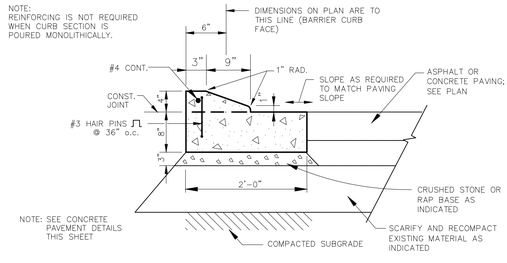
6 TYPICAL FINISHED SECTION

Ⓐ 1.5" ASPHALTIC CONCRETE (WEARING COURSE)(TYPE 3)
Ⓑ 2" ASPHALTIC CONCRETE (BINDER COURSE)(TYPE 3)
Ⓒ CEMENT STABILIZED BASE (6" THICK) (SEE NOTE 1)
Ⓓ COMMON FILL (TOP SOIL)
Ⓔ EXCAVATION

☑ SEEDING AND FERTILIZING IS TO BE APPLIED TO LIMITS OF R/W AND ANY OTHER DISTURBED AREAS AS DIRECTED IN THE FIELD.

GENERAL NOTES:

1. CEMENT STABILIZED BASE SHALL MEET LDOTD SECTION 303 W/ MAX. 7% CEMENT. FULL DEPTH OF CEMENT STABILIZATION SHALL BE IN SELECT FILL MATERIAL PLACED ON PREPARED SUBGRADE.
2. THE CONTRACTOR SHALL MAINTAIN ADEQUATE DRAINAGE DURING CONSTRUCTION AS DIRECTED BY THE PROJECT ENGINEER. THIS WORK SHOULD BE CONSIDERED INCIDENTAL AND PROVIDED AT NO DIRECT PAY.



7 TYPICAL MOUNTABLE CURB SECTION
SCALE: NONE

NOTE: PROVIDE SCORED CONTRACTION JOINTS @ 20' O.C. (10' O.C. IN CURVED LOCATIONS); PROVIDE EXPANSION JOINTS @ 120' O.C.

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DON R. ARRINGTON
License No. 28280
PROFESSIONAL ENGINEER IN CIVIL ENGINEERING
4/28/17

PROJECT: A NEW HOUSING DEVELOPMENT
BRIARWOOD ESTATES
A KWL PROPERTIES, LLC DEVELOPMENT
XXX SOUTH WASHINGTON STREET
BASTROP, LA 71221

DRAWING REVISIONS

DATE	DESCRIPTION
10/16/17	RE-ISSUE FOR PRICING
12/14/17	RE-ISSUE FOR PRICING

Drawn By: DAH
Checked By: DRA
SHEET
C2.02
Date: 10.16.17
Project No.: 16-0025
File No.:
DESCRIPTION:
DETAILS
SHEET 2 OF 3

168357 Details

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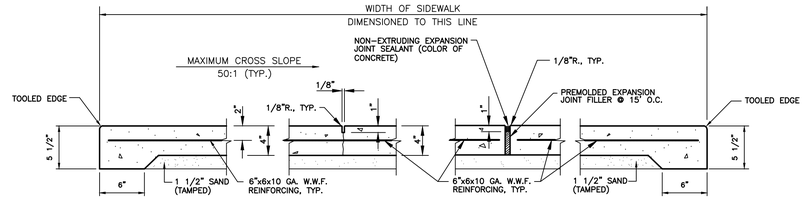


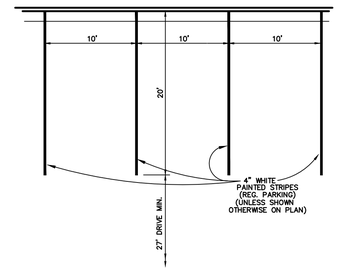
EDGE DETAIL | DUMMY JOINT (D.J.) | EXPANSION JOINT (E.J.) | EDGE DETAIL AT PAVING

NOTE:
SEE PLANS FOR LOCATIONS WHERE TEXTURES TO BE USED FOR SURFACE FINISH ON SIDEWALKS AND PAVEMENT

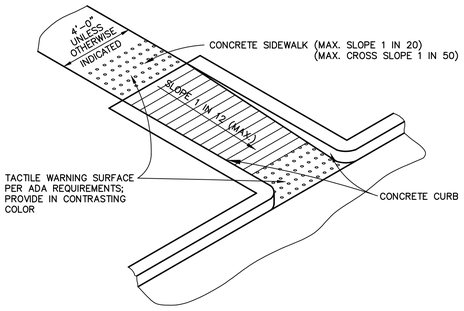
NOTE:
4' WIDE SIDEWALK ON HILLSIDE DR. RIGHT-OF-WAY SHALL BE CONSTRUCTED IN ACCORDANCE WITH CITY OF BROKEN ARROW STANDARDS.

NOTES:
1. SPACE DUMMY JOINTS FR WALKS WIDTH AT 6' O.C.
2. SPACE E.J.'S FOR WALKS AT ALL ABUTTING CONSTRUCTION, AT THE CORNER RETURNS, AND AT EVERY 30' MAX.

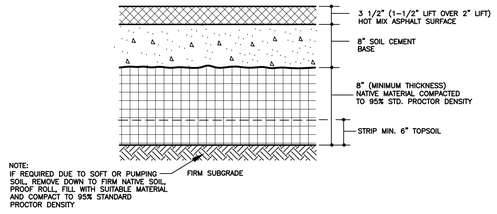
8 SIDEWALK CONSTRUCTION DETAILS
SCALE: NONE



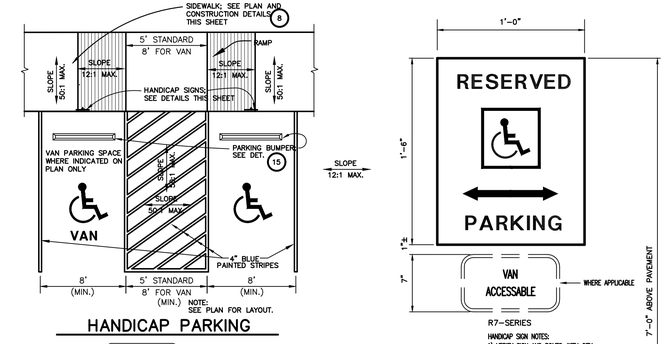
9 PAINTED PARKING STRIPE DETAIL
SCALE: NONE



11 (ACCESSIBLE RAMP) SIDEWALK DETAIL
SCALE: NONE



12 ASPHALT PAVING SECTION
SCALE: NONE



HANDICAP PARKING

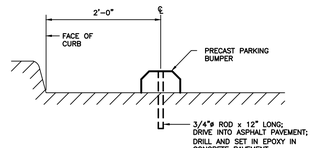
HANDICAP SIGN

HANDICAP PARKING SIGN DETAIL

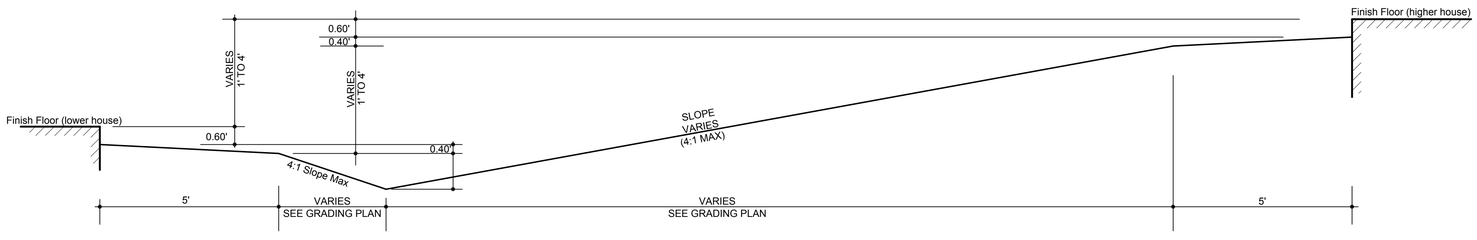
HANDICAP SYMBOL DETAIL

NOTE:
HANDICAP SIGNS IN SIDEWALK WILL BE FURNISHED BY BUILDING CONTRACTOR.

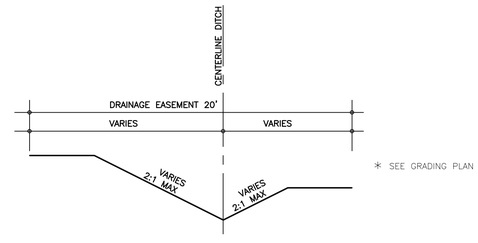
10 HANDICAP PARKING LAYOUT AND DETAILS
N.T.S.



15 PARKING BUMPER DETAIL
Scale: None



13 TYPICAL GRADING BETWEEN HOUSES
NO SCALE



14 DRAINAGE DITCH SECTION
NO SCALE

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PROFESSIONAL ENGINEER
IN
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4/28/17

PROJECT: A NEW HOUSING DEVELOPMENT

BRIARWOOD ESTATES

A KWL PROPERTIES, LLC DEVELOPMENT
XXX SOUTH WASHINGTON STREET
BASTROP, LA 71221

DRAWING REVISIONS

DATE	DESCRIPTION
10/16/17	RE-ISSUE FOR PRICING
12/14/17	RE-ISSUE FOR PRICING

Drawn By: DAH
Checked By: DRA
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SHEET 3 OF 3

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