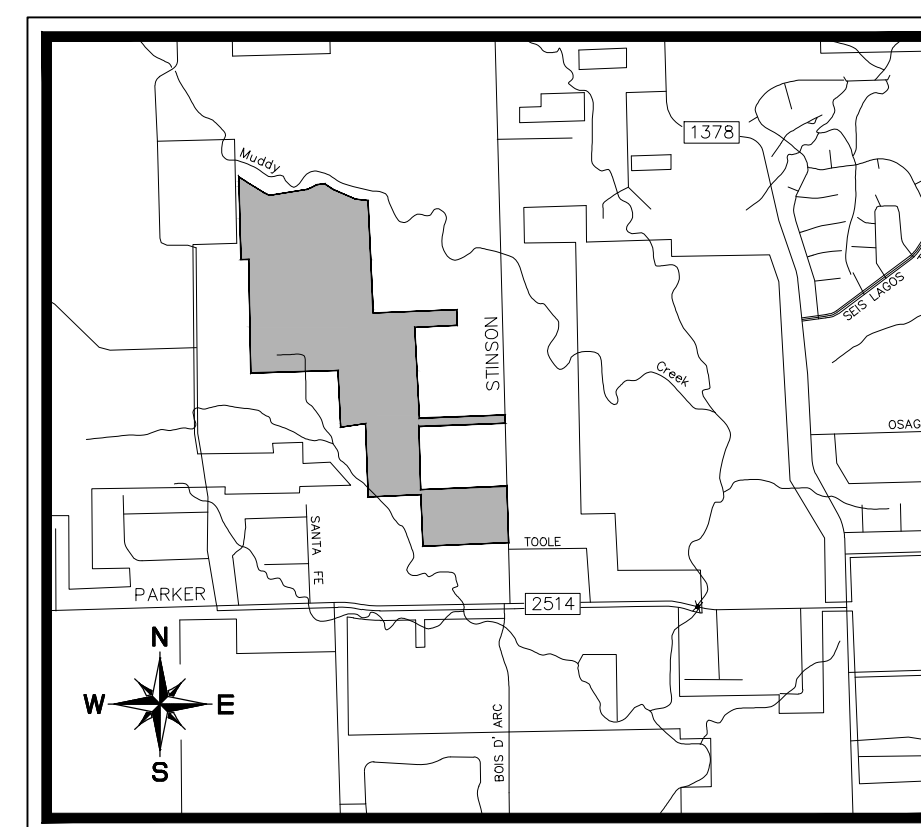


CIVIL PLANS FOR STINSON HIGHLANDS - PHASE 3

THIS PLAN SET IS FOR PHASE 3 CONSTRUCTION ONLY.

PHASE 1 (CONSTRUCTED), PHASE 2 (UNDER CONSTRUCTION), AND OFF-SITE 12" WATERLINE PLANS ARE REFERENCED IN THE SHEET INDEX ONLY BUT ARE NOT IN THIS SET.



LUCAS, TEXAS
COLLIN COUNTY
MARCH 17, 2014

PLANS SUBMITTAL/REVIEW LOG

CIVIL ENGINEERING PACKAGE 1ST SUBMITTAL - NOT FOR CONSTRUCTION	11/01/2007
CIVIL ENGINEERING PACKAGE 2ND SUBMITTAL FOR BIDDING PURPOSES ONLY - NOT FOR CONSTRUCTION	12/11/2007
CIVIL ENGINEERING PACKAGE 3RD SUBMITTAL ISSUED FOR CONSTRUCTION - GRADING ONLY	06/04/2008
CIVIL ENGINEERING PACKAGE ISSUED FOR BID	08/19/2011
CIVIL ENGINEERING PACKAGE 4th SUBMITTAL	09/17/2011
CIVIL ENGINEERING PACKAGE 5th SUBMITTAL	09/30/2011
ISSUED FOR CONSTRUCTION (PHASE 1 ONLY)	10/05/2011
CIVIL ENGINEER PACKAGE ISSUED FOR CONSTRUCTION (PHASE 2)	05/10/2013
ADDED SHEET C-9 AND C-32 (PHASE 2)	07/02/2013
HIGHLAND DRIVE AND WATER LINE REVISIONS (PHASE 2)	09/18/2013
CIVIL ENGINEERING PACKAGE CITY SUBMITTAL	03/17/2014
REVISED CIVIL ENGINEERING PACKAGE CITY SUBMITTAL	05/23/2016
RECORD DRAWING SUBMITTAL	03/09/2017

PREPARED FOR

REATA BROKERAGE SERVICES, LLC
16950 DALLAS PARKWAY
SUITE 100
DALLAS, TEXAS 75229
PHONE: 214-766-6933
CONTACT: COLLIN PRATER

ENGINEER



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12750 MERIT DRIVE, SUITE 1000, DALLAS, TX 75251
PHONE: 972-770-1300 FAX: 972-239-3820
WWW.KIMLEY-HORN.COM TX F-928

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CALL BEFORE YOU DIG
DIG TESS
1-800-DIG-TESS
(@ least 72 hours prior to digging)

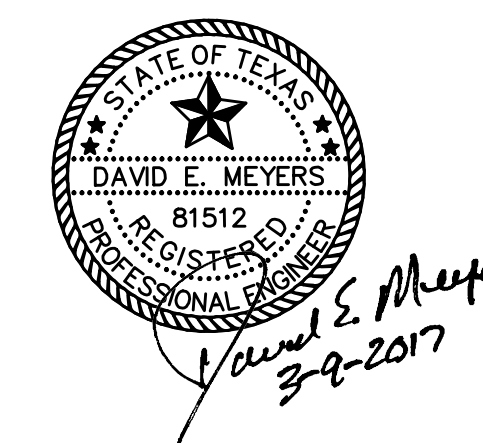
INDEX OF SHEETS

SHEET NO.	DESCRIPTION	REVISION
CIVIL ENGINEERING (KIMLEY-HORN AND ASSOCIATES)		
C-1	COVER SHEET	△
C-2	FINAL PLAN	
C-2A	GENERAL NOTES PLAN	
C-2A	PHASING PLAN	△
C-3	PAVING PLAN & PROFILE - CAMAN PARK DRIVE (BEG-12+00)	
C-4	PAVING PLAN & PROFILE - CAMAN PARK DRIVE (12+00-23+00)	
C-5	PAVING PLAN & PROFILE - CAMAN PARK DRIVE (23+00-34+00)	
C-6	PAVING PLAN & PROFILE - TURNBERRY LANE (BEG-END)	
C-7	PAVING PLAN & PROFILE - BRAE BURN WAY (BEG-END)	
C-8	PAVING PLAN & PROFILE - ABERDEEN DRIVE (BEG-5+00)	
C-8	PAVING PLAN & PROFILE - ABERDEEN DRIVE (5+00-END)	
C-9	PAVING PLAN & PROFILE - CAIRN DRIVE (BEG-END)	
C-9	PAVING PLAN & PROFILE - INVERNESS COURT (BEG-END)	
C-10	PAVING PLAN & PROFILE - HIGHLAND DRIVE (BEG-12+00)	
C-11	PAVING PLAN & PROFILE - HIGHLAND DRIVE (12+00-23+00)	
C-12	PAVING PLAN & PROFILE - HIGHLAND DRIVE (23+00-34+00)	
C-13	PAVING PLAN & PROFILE - HIGHLAND DRIVE (34+00-END)	
C-14	PAVING PLAN & PROFILE - INVERNESS LANE (BEG-3+00)	△
C-15	PAVING PLAN & PROFILE - INVERNESS LANE (3+00-18+00)	
C-16	PAVING PLAN & PROFILE - INVERNESS LANE (18+00-END)	
C-17	PAVING PLAN & PROFILE - GALWAY DRIVE (BEG-11+00)	
C-18	PAVING PLAN & PROFILE - STIRLING DRIVE (11+00-END)	
C-19	PAVING PLAN & PROFILE - OAKHURST COURT (BEG-END)	△
C-19	PAVING PLAN & PROFILE - GREENACRES LANE (BEG-12+00)	
C-20	PAVING PLAN & PROFILE - GREENACRES LANE (12+00-END)	
C-21	PAVING PLAN & PROFILE - GLENDALE DRIVE (BEG-9+00)	
C-22	PAVING PLAN & PROFILE - GLENDALE DRIVE (9+00-END)	
C-22A	PAVING PLAN - STINSON ROAD	
C-22B	TRAFFIC SIGNAGE AND LIGHTING PLAN	△
C-23-C-26	GRADING PLAN	
C-27-C-30	GRADING PLAN	△
C-31-C-32	GRADING PLAN	△
C-33	DRAINAGE AREA MAP - SOUTH	△
C-34	DRAINAGE AREA MAP - NORTH	△
C-34A	EXISTING DRAINAGE AREA MAP	△
C-35	STORM CULVERT PROFILE - CULVERTS "A" - "H"	
C-36	STORM CULVERT PROFILE - CULVERTS "H" - "M"	
C-37	STORM CULVERT PROFILE - CULVERTS "N" - "S"	
C-38-C-40	WATER PLAN	
C-41-C-44	WATER PLAN	△
C-45-C-46	WATER PLAN	△
C-47	12" WATER PROFILE - LINE "A" (BEG-23+00)	
C-48	12" WATER PROFILE - LINE "A" (23+00-END)	
C-49	OFFSITE WATER PLAN (1 OF 5) (NOT IN CONTRACT)	
C-50	OFFSITE WATER PLAN (2 OF 5) (NOT IN CONTRACT)	
C-51	OFFSITE WATER PLAN (3 OF 5) (NOT IN CONTRACT)	
C-52	OFFSITE WATER PLAN (4 OF 5) (NOT IN CONTRACT)	
C-53	OFFSITE WATER PLAN (5 OF 5) (NOT IN CONTRACT)	
C-54	OFFSITE WATER PLAN (6 OF 5) (NOT IN CONTRACT)	
C-55	OFFSITE WATER PLAN (7 OF 5) (NOT IN CONTRACT)	
C-56	OFFSITE WATER PLAN (8 OF 5) (NOT IN CONTRACT)	
C-57	EROSION CONTROL PLAN	△
C-58	EROSION CONTROL DETAILS	
C-59	HYDROLOGY CALCULATIONS	
C-60	HYDROLOGY DETAILS	
C-61	PAVING DETAILS & CROSS SECTION	
C-62	UTILITY DETAILS	
C-63	WATER DETAILS	
C-64	WATER DETAILS	△
C-65	STORM DETAILS	

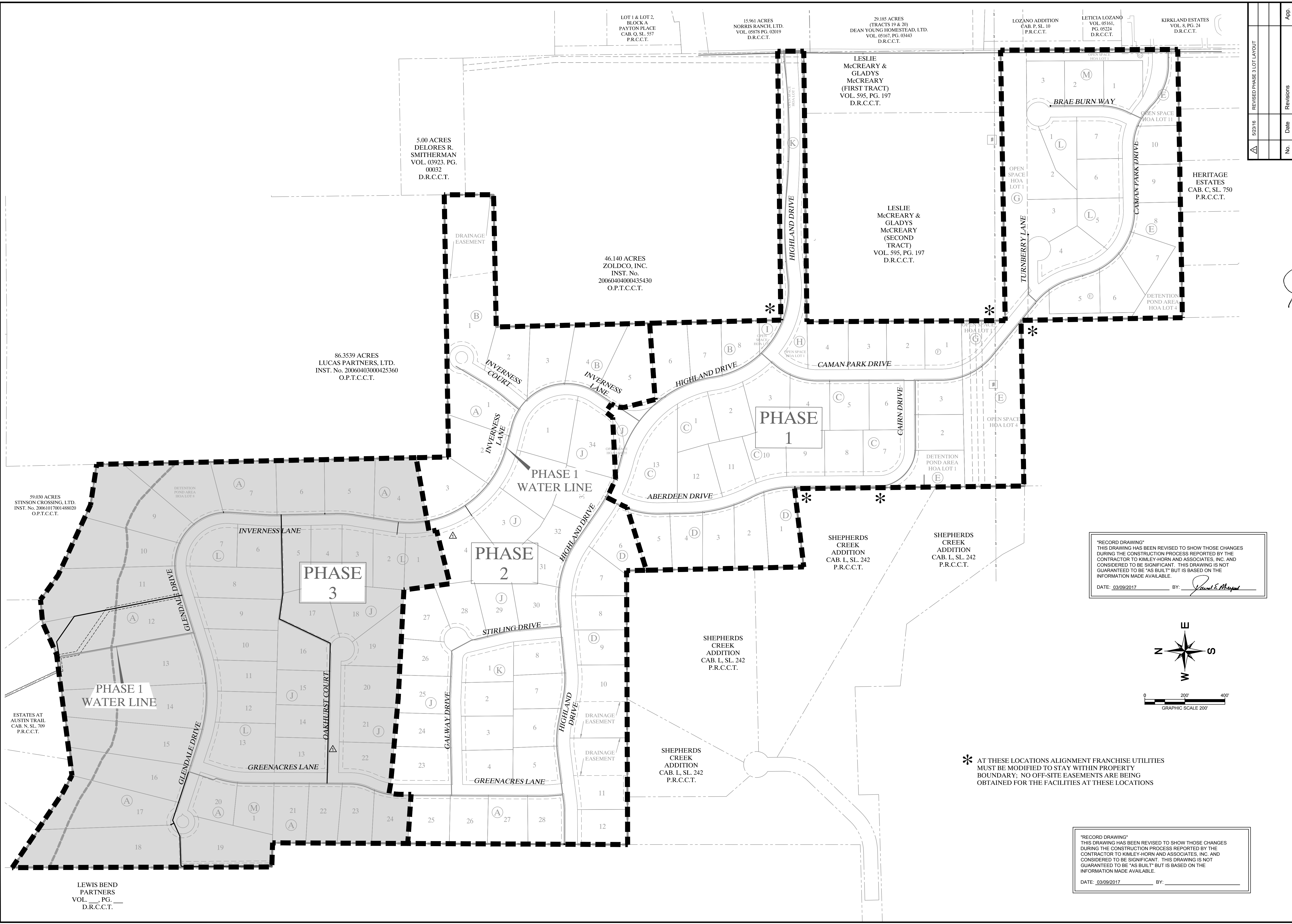
PLAN REVISION LOG

NO.	DATE	DESCRIPTION
△	5/23/16	REVISED PHASE 3 LOT LAYOUT
△	2/03/17	POND OUTFALL AND FIRE HYDRANT RIP RAP

"RECORD DRAWING"
THIS DRAWING HAS BEEN REVISED TO SHOW THOSE CHANGES DURING THE CONSTRUCTION PROCESS REPORTED BY THE CONTRACTOR TO KIMLEY-HORN AND ASSOCIATES, INC. AND CONSIDERED TO BE "AS BUILT" BUT IS BASED ON THE INFORMATION MADE AVAILABLE.
DATE: 03/09/2017 BY: David E. Meyers

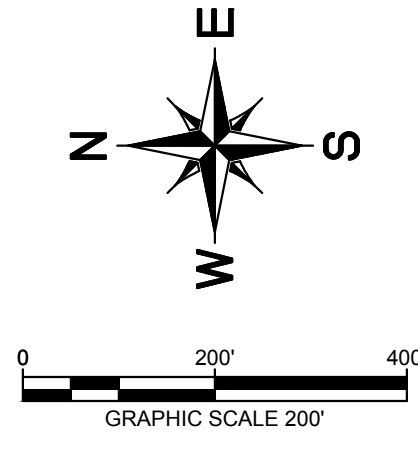


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PLOTTER DRIVER: HP DesignJet T1100e
PLOTTER PORT: \\server\plotters\HP DesignJet T1100e
PLOTTER STATUS: OK
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PLOTTER MODEL: HP DesignJet T1100e
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PLOTTER MANUFACTURER: HP
PLOTTER MODEL: HP DesignJet T1100e
PLOTTER SERIAL: HP DesignJet T1100e
PLOTTER MANUFACTURER: HP



LEWIS BEND PARTNERS
VOL. __, PG. __
D.R.C.C.T.

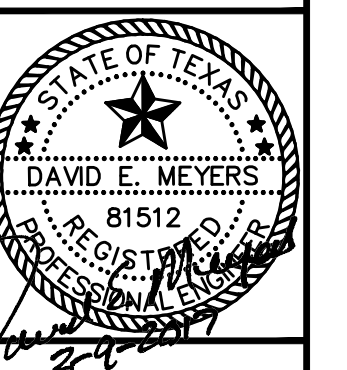
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DATE: 03/09/2017 BY: *David E. Meyers*



* AT THESE LOCATIONS ALIGNMENT FRANCHISE UTILITIES MUST BE MODIFIED TO STAY WITHIN PROPERTY BOUNDARY; NO OFF-SITE EASEMENTS ARE BEING OBTAINED FOR THE FACILITIES AT THESE LOCATIONS

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DATE: 03/09/2017 BY: _____

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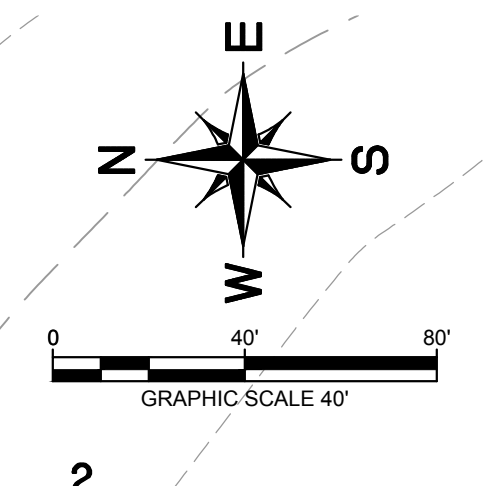
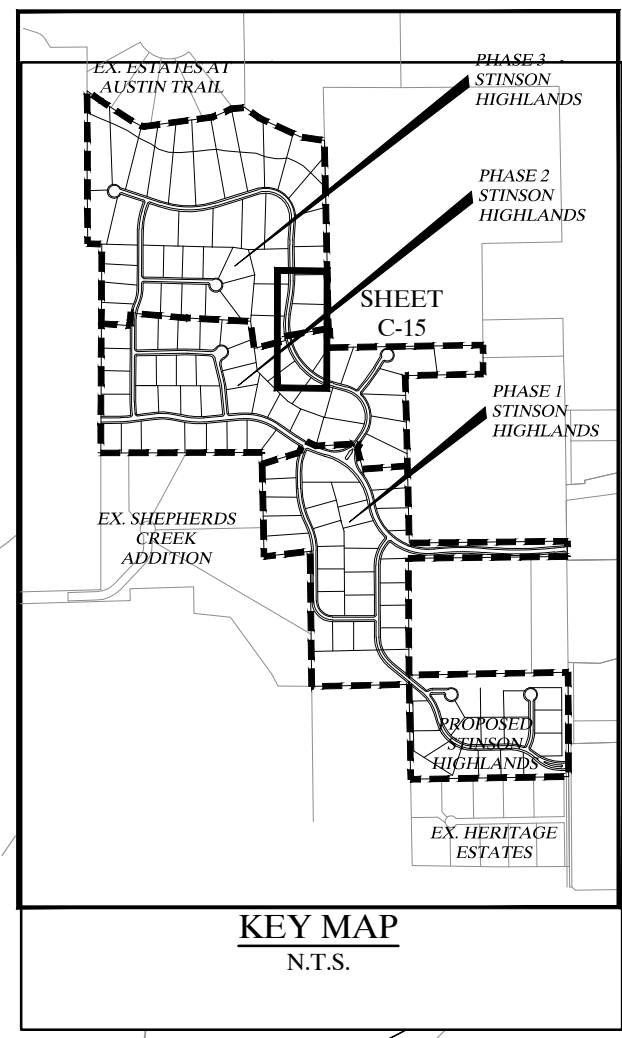
**STINSON HIGHLANDS
LUCAS, TEXAS**

PHASING PLAN

Scale:	1" = 200'
Designed by:	JTH
Drawn by:	BIS
Checked by:	LRO
Date:	JUNE 13, 2014
Project No.:	064547001
SHEET	
C-2A	

No.	Date	Revisions	App.
5/23/16		REVISED PHASE 3 LOT LAYOUT	

WARNING: CONTRACTOR TO VERIFY PRESENCE AND EXACT LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION.



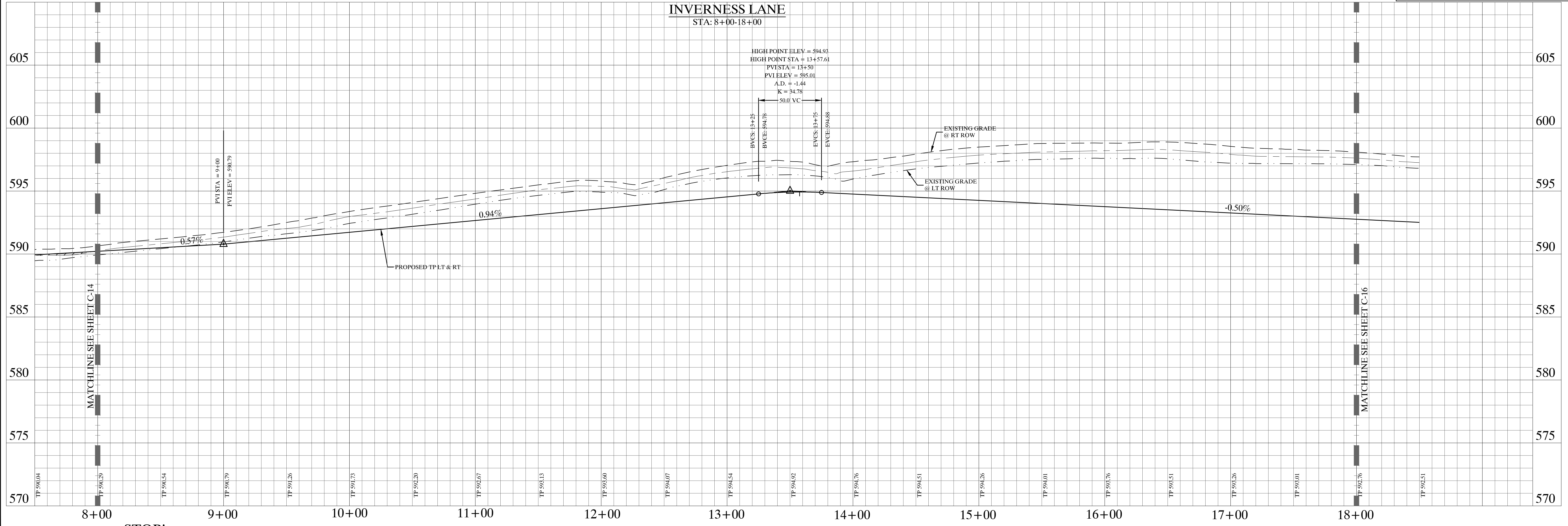
CURVE TABLE					
CURVE	DELTA	RADIUS	LENGTH	CHORD BEARING	CHORD
P-C22	10°12'25"	530.00	94.42	N03°53'40"E	94.29
P-C23	84°06'04"	530.00	777.96	S33°03'09"E	709.97

LINE TABLE		
LINE	LENGTH	BEARING
P-L26	195.08	S08°59'53"W

BENCHMARKS:
 1. (A) BM # 7655
 CUT ON TOP OF HEADWALL AT NORTHWEST CORNER OF STINSON ROAD & JENNA WAY ELEVATION 574.13
 (B) BM # 7656
 CUT ON TOP OF HEADWALL ON WEST SIDE OF STINSON ROAD & 4,600 FT NORTH OF JENNA WAY ELEVATION 569.39

2. LOTS OR PORTION OF LOTS WITHIN THE FLOODPLAIN OR AREAS OF SPECIAL FLOOD HAZARD REQUIRE A DEVELOPMENT PERMIT PRIOR TO ISSUANCE OF A BUILDING PERMIT OR COMMENCEMENT OF CONSTRUCTION INCLUDING SITE GRADING, ON ALL OR PART OF THOSE LOTS.

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 DATE: 03/09/2017 BY: *David E. Meyer*



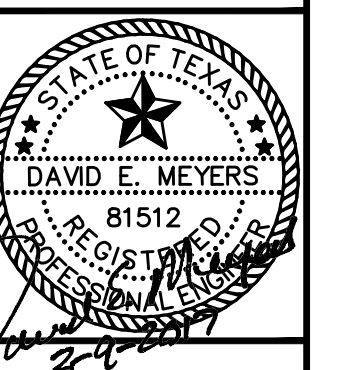
**STOP!
 CALL BEFORE YOU DIG**
 DIG TESS
 1-800-DIG-TESS
 (at least 72 hours prior to digging)

NOTES:
 1. REFER TO SHEET C-2 FOR CONSTRUCTION NOTES.
 2. REFER TO SHEET C-14 FOR PAVING LINE AND CURVE TABLES.
 3. REFER TO SHEET C-39 FOR PAVING CROSS SECTIONS.

2017099_DWG.dwg - dwg, ecm0212791614893_2017099_DWG.dwg
 DESIGNED BY: JTH
 DRAWN BY: BUS
 CHECKED BY: LRO
 DATE: JUNE 13, 2014
 PROJECT NO: 064547001

No.	Date	Revisions	App.
1			
2			

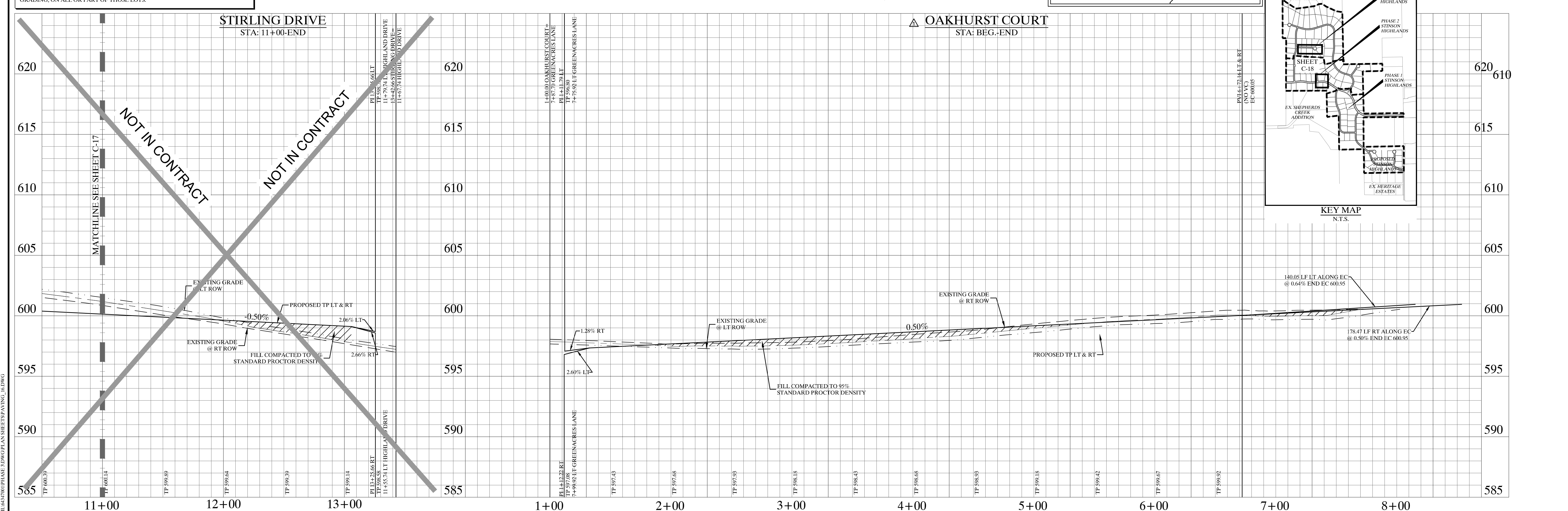
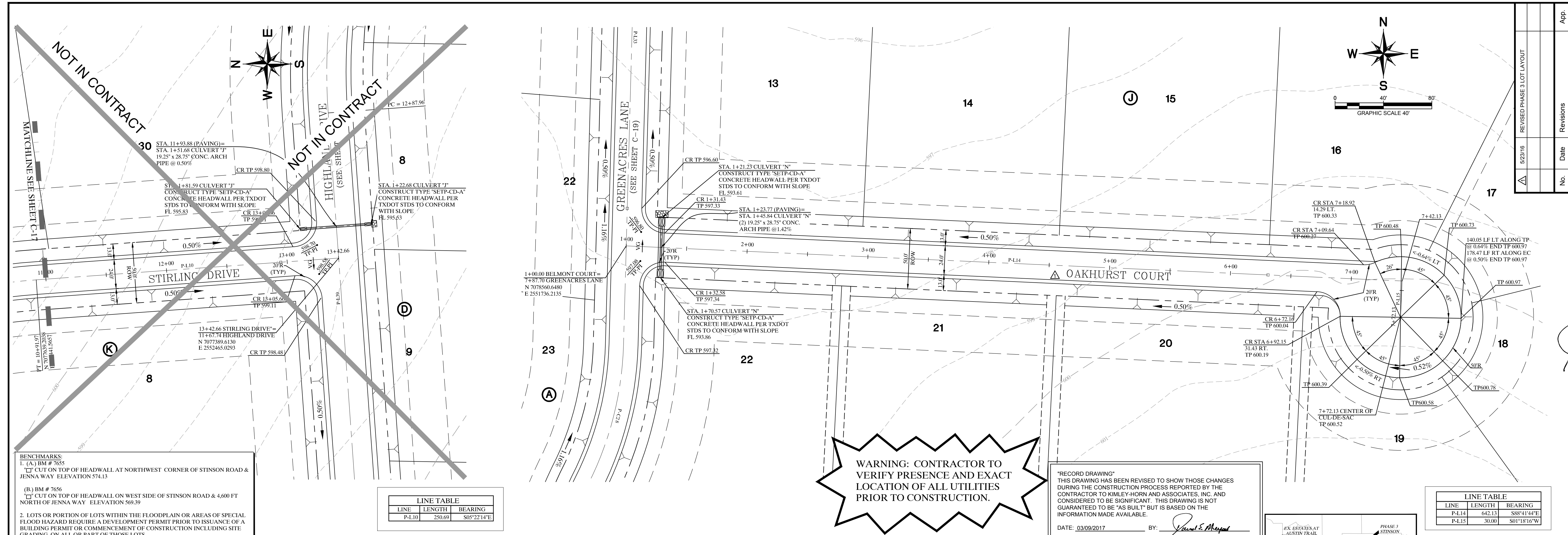
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 WWW.KIMLEY-HORN.COM TX F-928



**STINSON HIGHLANDS
 LUCAS, TEXAS**

**PAVING PLAN AND PROFILE
 INVERNESS LANE
 (STA: 8+00 - 18+00)**

**SHEET
 C-15**



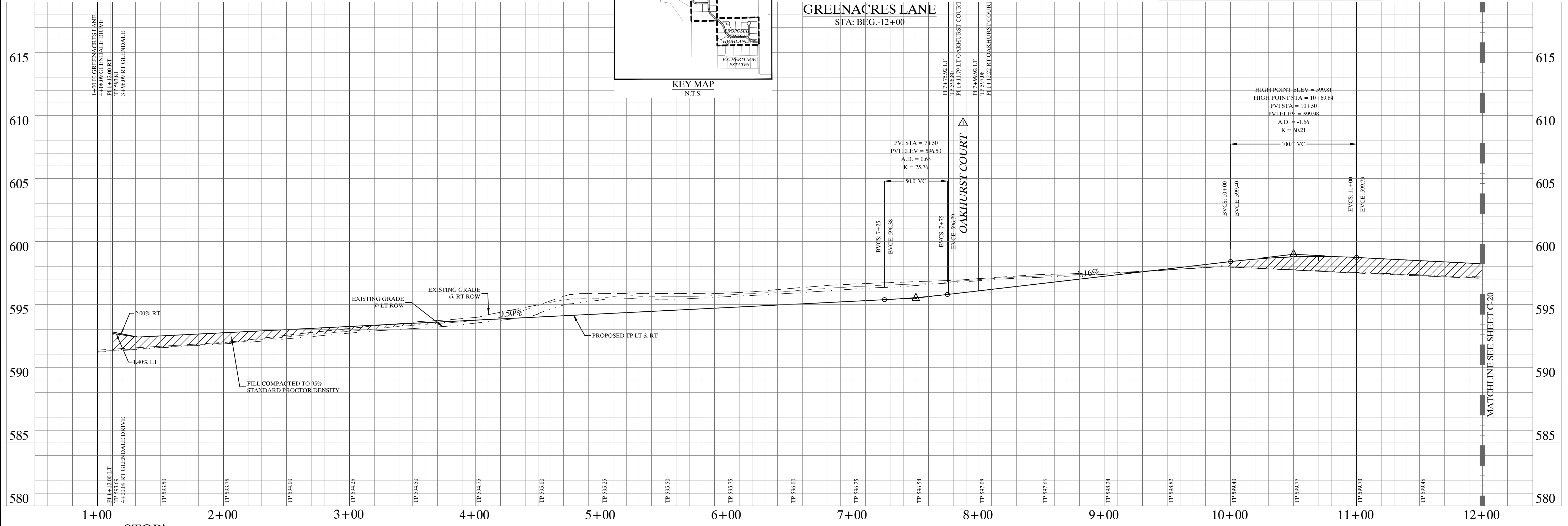
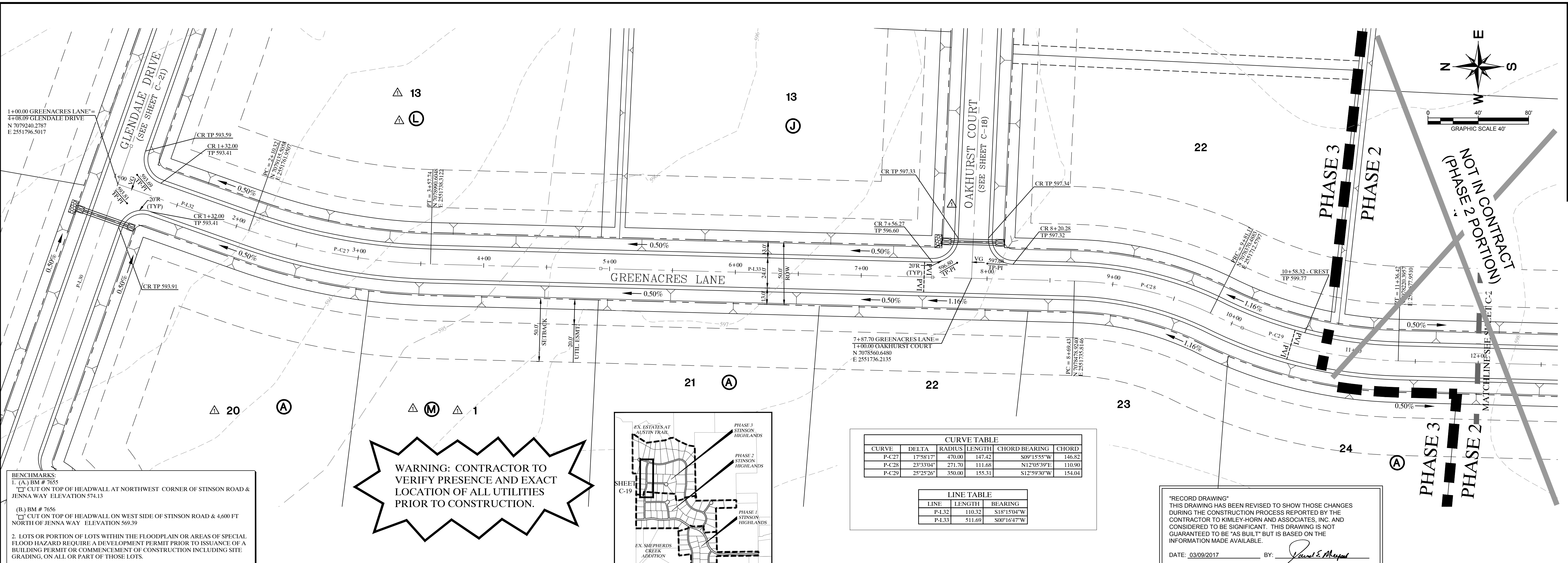
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 DATE: 03/09/2017 BY: *David E. Meyers*

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 DESIGNED BY: JTH
 DRAWN BY: BUS
 CHECKED BY: LRO
 DATE: JUNE 13, 2014
 PLOTTED BY: JTH
 PLOT DATE: 06/13/2014

5/23/16 REVISED PHASE 3 LOT LAYOUT
 No. Date Revisions App.
 Kimley-Horn and Associates, Inc.
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 PHONE: 972-770-1300 FAX: 972-770-3820
 WWW.KIMLEY-HORN.COM TX F-928
 STATE OF TEXAS
 DAVID E. MEYERS
 81512
 STINSON HIGHLANDS
 LUCAS, TEXAS
 PAVING PLAN AND PROFILE
 STIRLING (STA: 11+00 - END)
 OAKHURST (STA: BEG. - END)
 Scale: 1" = 40' H, 1" = 4' V
 SHEET C-18
 Project No. 064547001

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 DESIGNED BY: JTH
 DRAWN BY: RVG
 CHECKED BY: LRO
 DATE: JUNE 13, 2014
 PROJECT NO: 064347001



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 1. REFER TO SHEET C-2 FOR CONSTRUCTION NOTES.
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 3. REFER TO SHEET C-39 FOR PAVING CROSS SECTIONS.

REVISED PHASE 3 LOT LAYOUT

No.	Date	Revisions	App.

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 PHONE: 972-270-1300 FAX: 972-239-3820
 WWW.KIMLEY-HORN.COM TX F-928

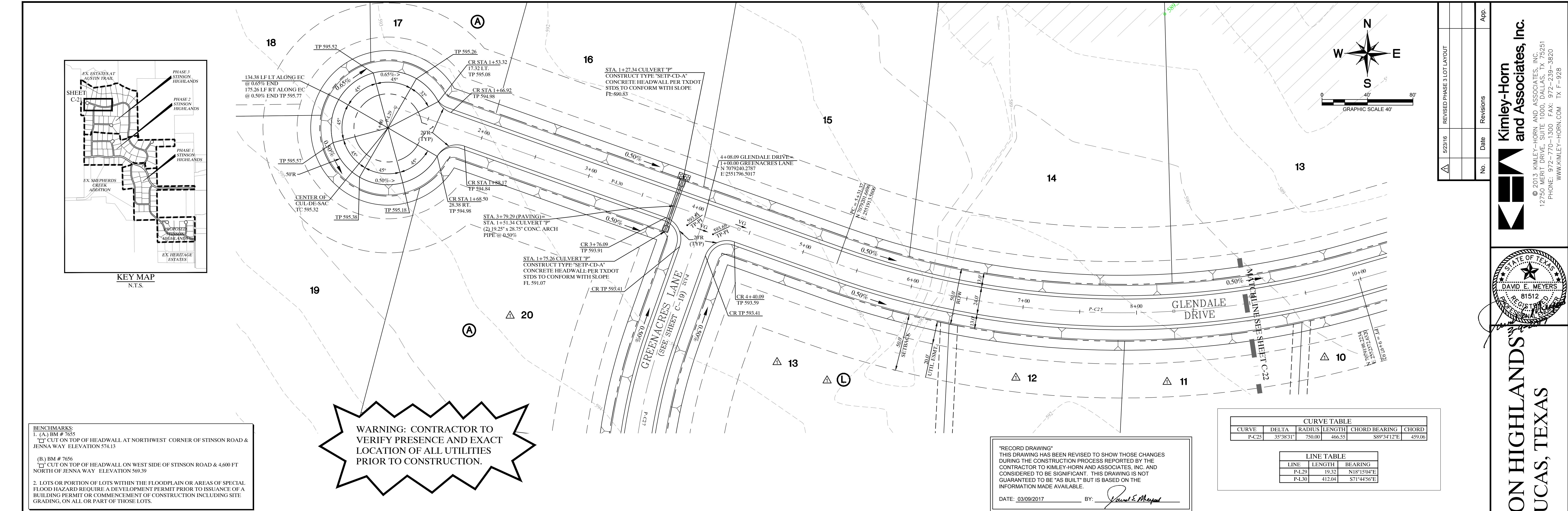
STATE OF TEXAS
DAVID E. MEYER
 81512
 LICENSED PROFESSIONAL ENGINEER

STINSON HIGHLANDS
LUCAS, TEXAS

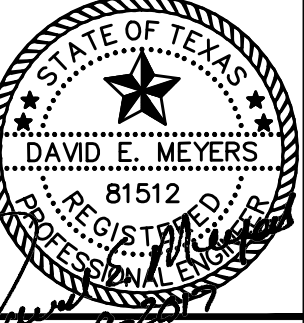
PAVING PLAN AND PROFILE
GREENACRES LANE
(STA: BEG. - 12+00)

Scale: 1" = 40' H, 1" = 4' V
 Designed by: JTH
 Drawn by: RVG
 Checked by: LRO
 Date: JUNE 13, 2014
 Project No: 064347001

SHEET
C-19



No.	Date	Revisions	App.



STINSON HIGHLANDS LUCAS, TEXAS

PAVING PLAN AND PROFILE GLENDALE DRIVE (STA: BEG. - 9+00)

Scale: 1" = 40' H, 1" = 4' V	Designed by: JTH
Drawn by: RVG	Checked by: LRO
Date: JUNE 13, 2014	Project No.: 064347001

SHEET C-21

REVISED PHASE 3 LOT LAYOUT

**Kimley-Horn
and Associates, Inc.**
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PHONE: 972-271-1300 FAX: 972-239-3820
WWW.KIMLEY-HORN.COM TX F-928

BENCHMARKS:
1. (A) BM # 7655
CUT ON TOP OF HEADWALL AT NORTHWEST CORNER OF STINSON ROAD & JENNA WAY ELEVATION 574.13

(B) BM # 7656
CUT ON TOP OF HEADWALL ON WEST SIDE OF STINSON ROAD & 4,600 FT NORTH OF JENNA WAY ELEVATION 569.39

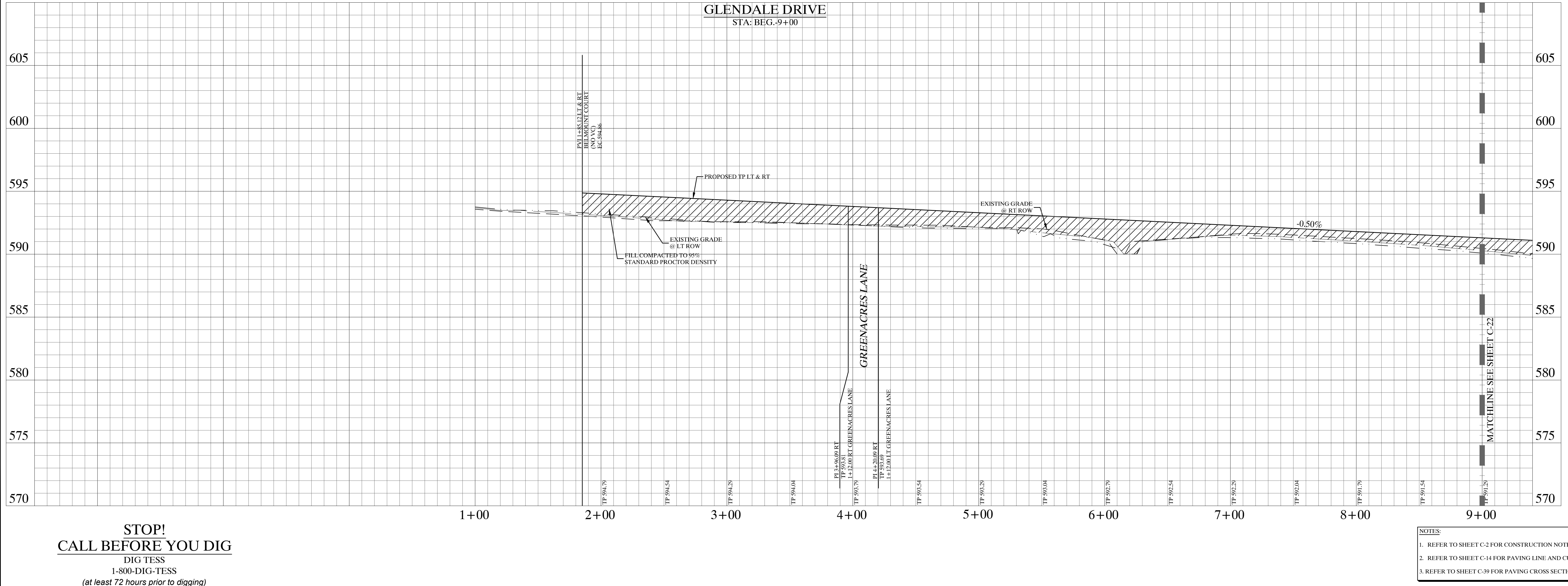
2. LOTS OR PORTION OF LOTS WITHIN THE FLOODPLAIN OR AREAS OF SPECIAL FLOOD HAZARD REQUIRE A DEVELOPMENT PERMIT PRIOR TO ISSUANCE OF A BUILDING PERMIT OR COMMENCEMENT OF CONSTRUCTION INCLUDING SITE GRADING, ON ALL OR PART OF THOSE LOTS.

WARNING: CONTRACTOR TO VERIFY PRESENCE AND EXACT LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION.

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DATE: 03/09/2017 BY: David E. Meyers

CURVE TABLE					
CURVE	DELTA	RADIUS	LENGTH	CHORD BEARING	CHORD
P-C25	33°58'31"	750.00	466.55	S89°34'12"E	439.06

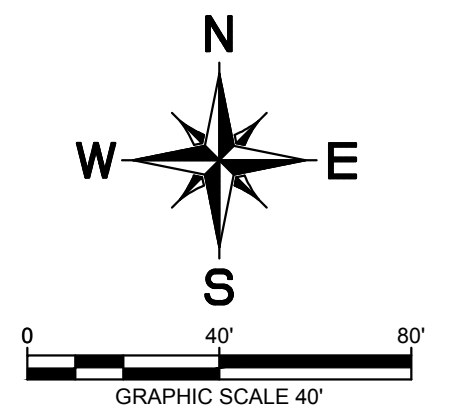
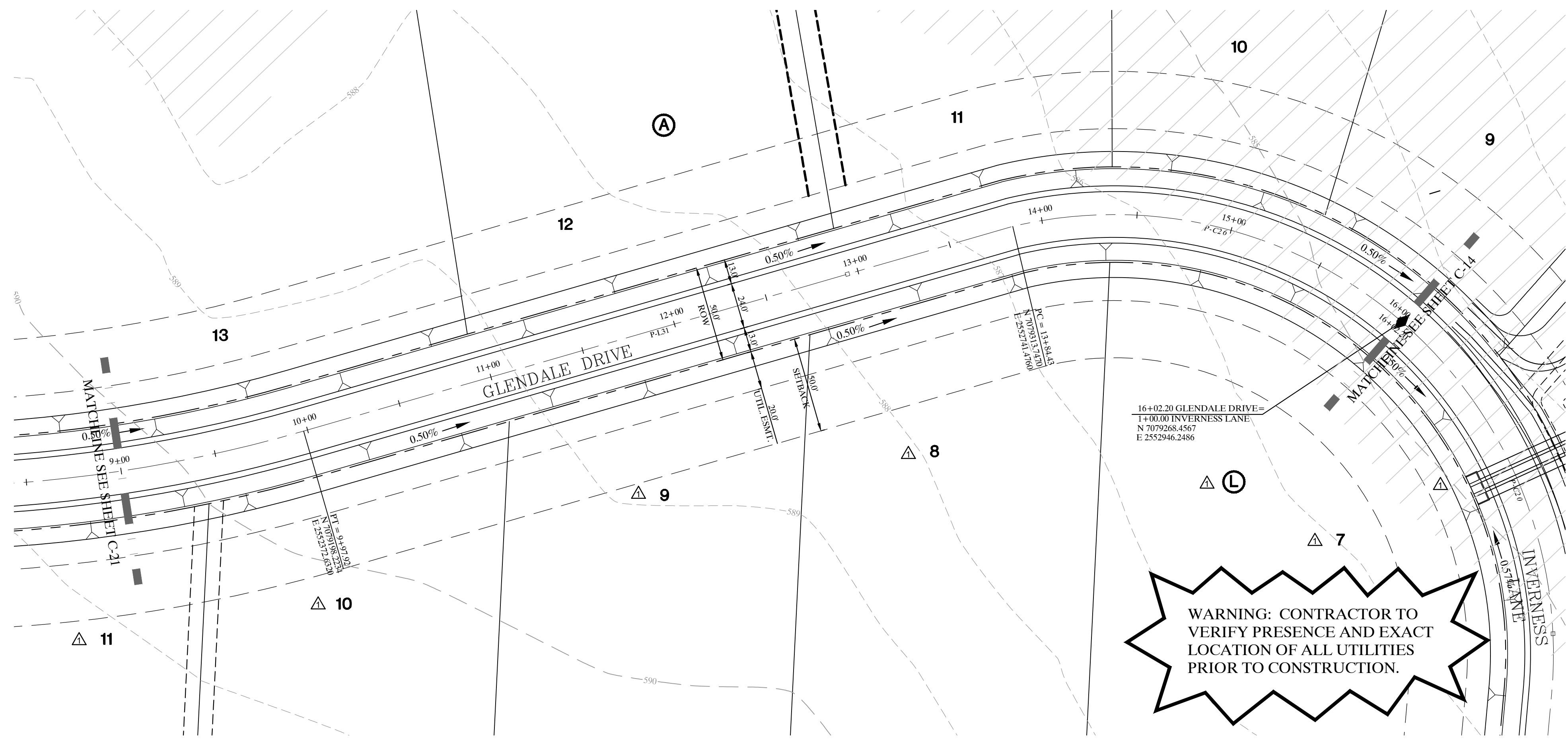
LINE TABLE		
LINE	LENGTH	BEARING
P-L20	10.33	N81°15'15"E
P-L30	412.04	S71°45'56"E



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DIG TESS
1-800-DIG-TESS
(at least 72 hours prior to digging)

- NOTES:**
1. REFER TO SHEET C-2 FOR CONSTRUCTION NOTES.
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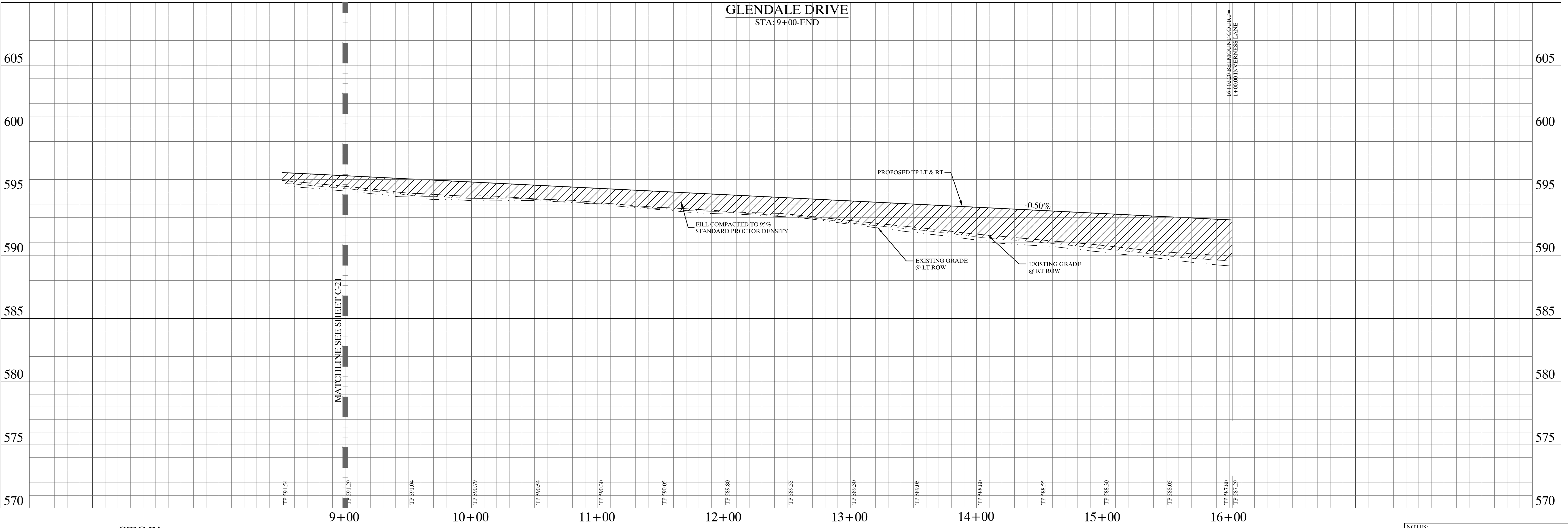
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 DATE: 03/09/2017 BY: David S. Meyer

CURVE TABLE					
CURVE	DELTA	RADIUS	LENGTH	CHORD BEARING	CHORD
P-C26	54°14'52"	230.00	217.76	N77°31'42"W	209.72

LINE TABLE		
LINE	LENGTH	BEARING
P-4.31	386.51	N72°36'33"E

WARNING: CONTRACTOR TO VERIFY PRESENCE AND EXACT LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION.

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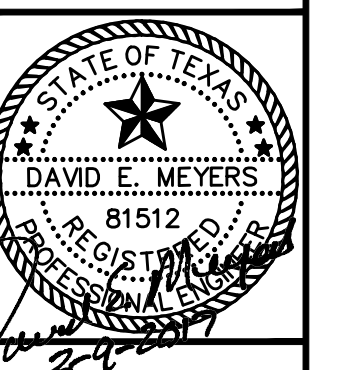
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 2. REFER TO SHEET C-14 FOR PAVING LINE AND CURVE TABLES.
 3. REFER TO SHEET C-39 FOR PAVING CROSS SECTIONS.

IMAGES: 20170909_DTM.dwg - d:\maps\acim\012412791614893 - 20170909_DTM.dwg - XREF: 6/10/16 - XREF: 6/10/16 - XREF: 6/10/16 - XREF: 6/10/16 - XREF: 6/10/16 - XREF: 6/10/16
 DESIGNED BY: JTH
 DRAWN BY: RVG
 CHECKED BY: LRO
 DATE: JUNE 13, 2014
 PROJECT NO.: 064547901

No.	Date	Revisions	App.
5/23/16		REVISED PHASE 3 LOT LAYOUT	

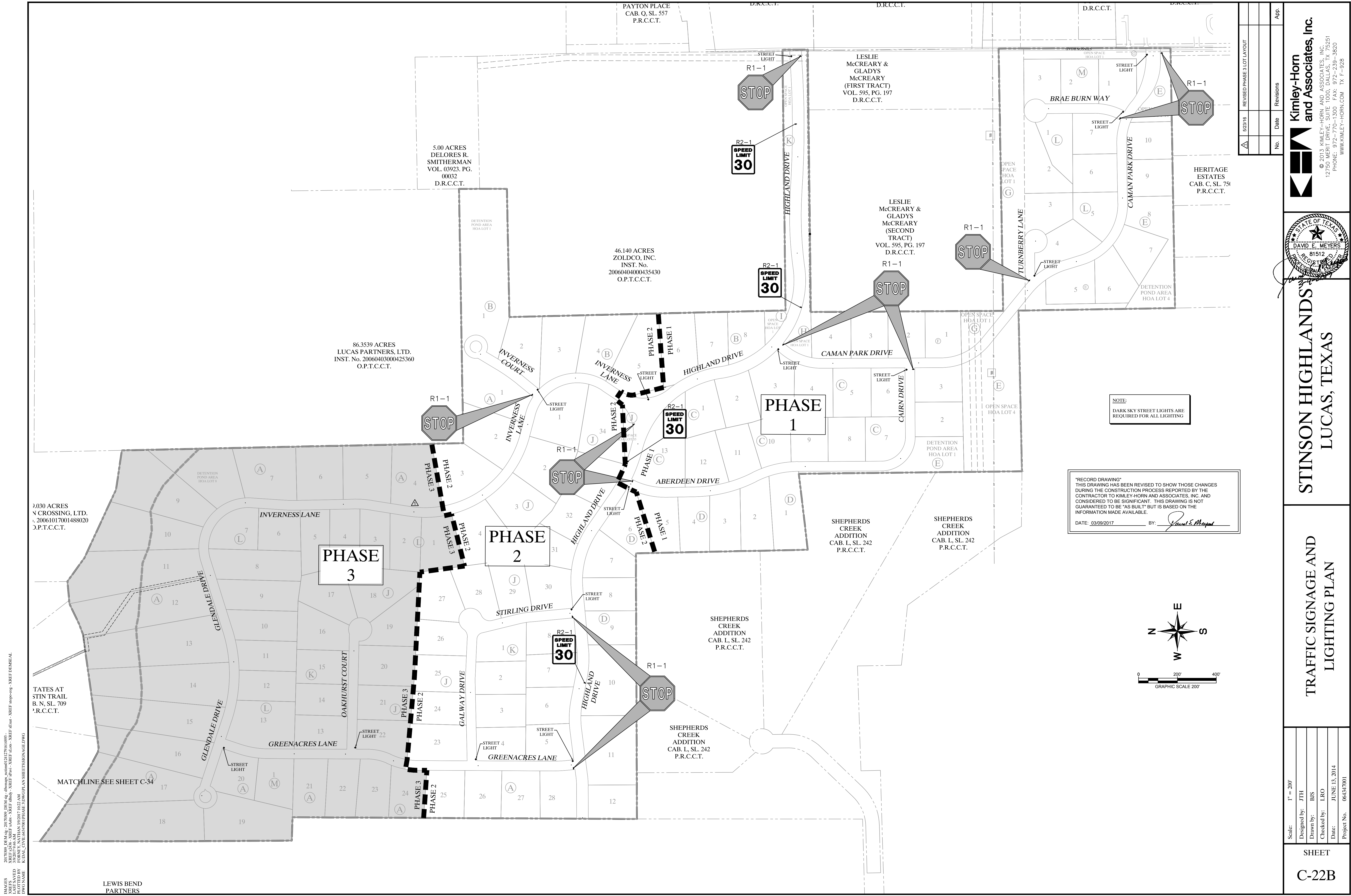
Kimley-Horn and Associates, Inc.
 © 2013 KIMLEY-HORN AND ASSOCIATES, INC.
 12750 WEST DREYFUS DRIVE
 PHOENIX, ARIZONA 85021
 PHONE: 972-770-1300 FAX: 972-239-3820
 WWW.KIMLEY-HORN.COM TX F-928



STINSON HIGHLANDS
LUCAS, TEXAS

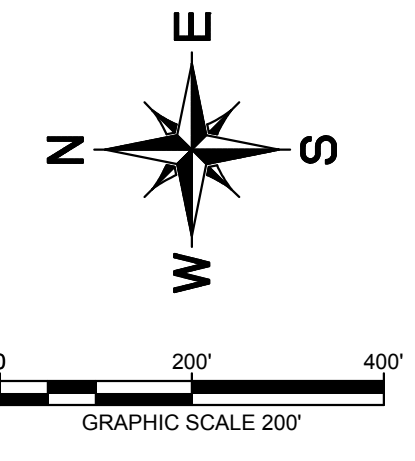
PAVING PLAN AND PROFILE
GLENDALE DRIVE
(STA: 9+00 - END)

SHEET C-22



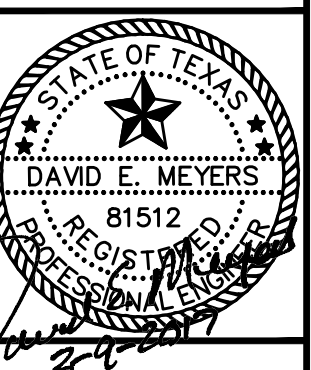
NOTE:
DARK SKY STREET LIGHTS ARE
REQUIRED FOR ALL LIGHTING

"RECORD DRAWING"
THIS DRAWING HAS BEEN REVISED TO SHOW THOSE CHANGES
DURING THE CONSTRUCTION PROCESS REPORTED BY THE
CONTRACTOR TO KIMLEY-HORN AND ASSOCIATES, INC. AND
CONSIDERED TO BE SIGNIFICANT. THIS DRAWING IS NOT
GUARANTEED TO BE "AS BUILT" BUT IS BASED ON THE
INFORMATION MADE AVAILABLE.
DATE: 03/09/2017 BY: *David E. Meyers*



No.	Date	Revisions	App.
5/23/16		REVISED PHASE 3 LOT LAYOUT	

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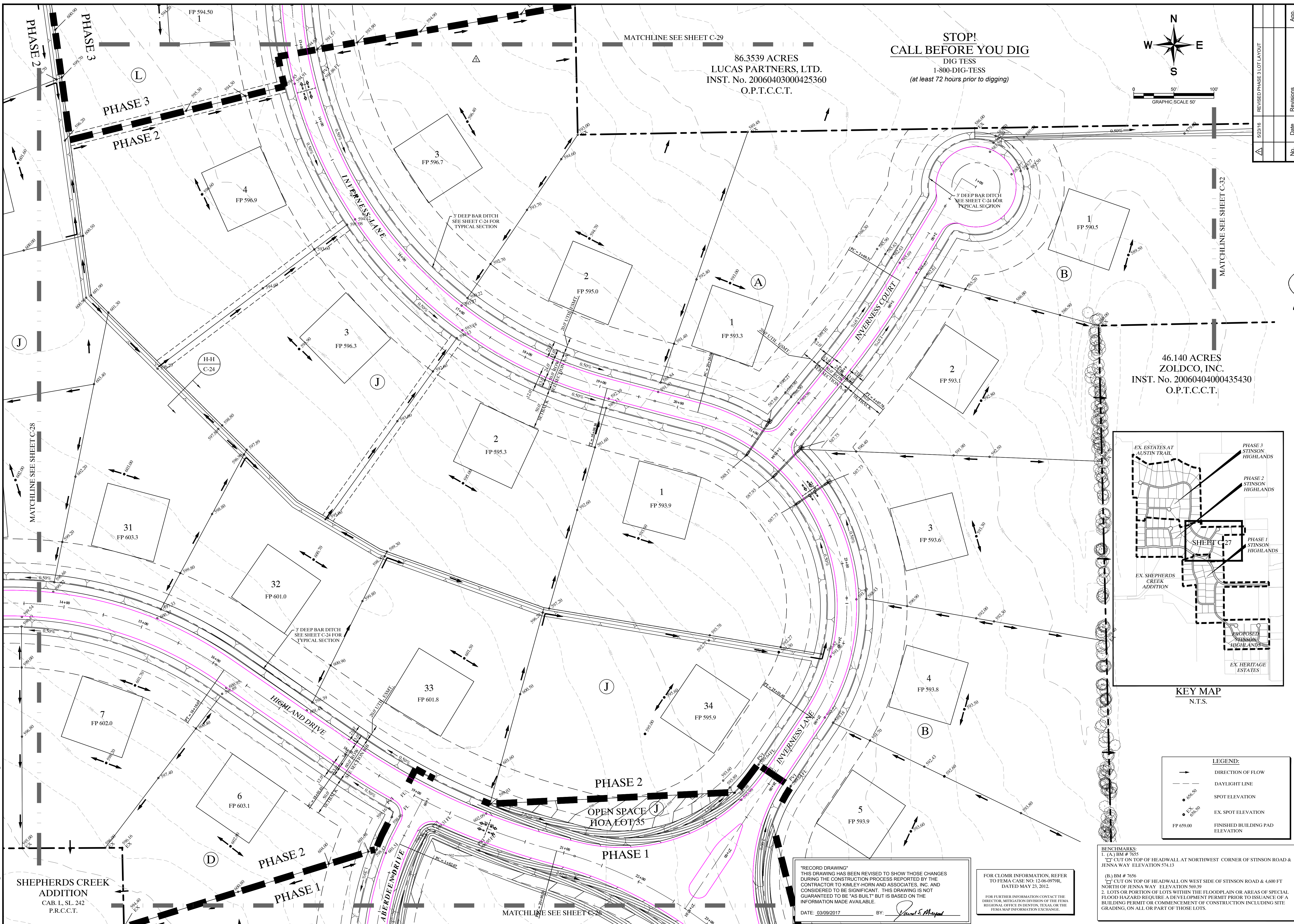


**STINSON HIGHLANDS
LUCAS, TEXAS**

**TRAFFIC SIGNAGE AND
LIGHTING PLAN**

Scale:	1" = 200'
Designed by:	JTH
Drawn by:	BIS
Checked by:	LRO
Date:	JUNE 13, 2014
Project No.:	064347001

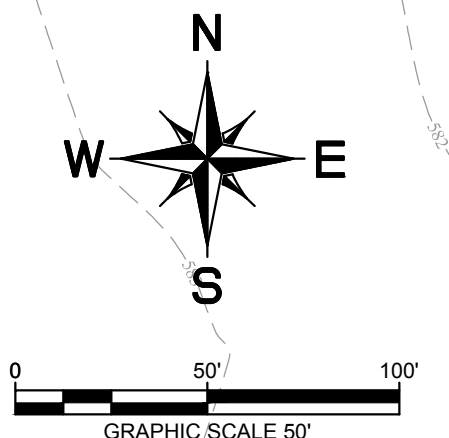
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 PLOTTED BY: FORNIT, NATHAN 3/3/2017 10:22 AM
 PLOT DATE: 3/3/2017 10:22 AM
 PLOT SCALE: 1"=200'
 PLOT SHEET: C-22B



MATCHLINE SEE SHEET C-29

86.3539 ACRES
LUCAS PARTNERS, LTD.
INST. No. 20060403000425360
O.P.T.C.C.T.

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1-800-DIG-TESS
(at least 72 hours prior to digging)

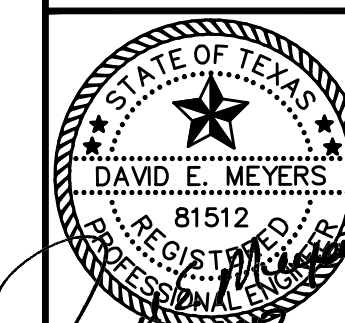


No.	Date	Revisions	App.
5/23/16		REVISED PHASE 3 LOT LAYOUT	

Scale: 1" = 50'

Designed by: JTH
Drawn by: RVG
Checked by: LRO
Date: JUNE 13, 2014
Project No.: 064347001

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and Associates, Inc.**
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PHONE: 972-772-1300 FAX: 972-339-3820
WWW.KIMLEY-HORN.COM TX F-928

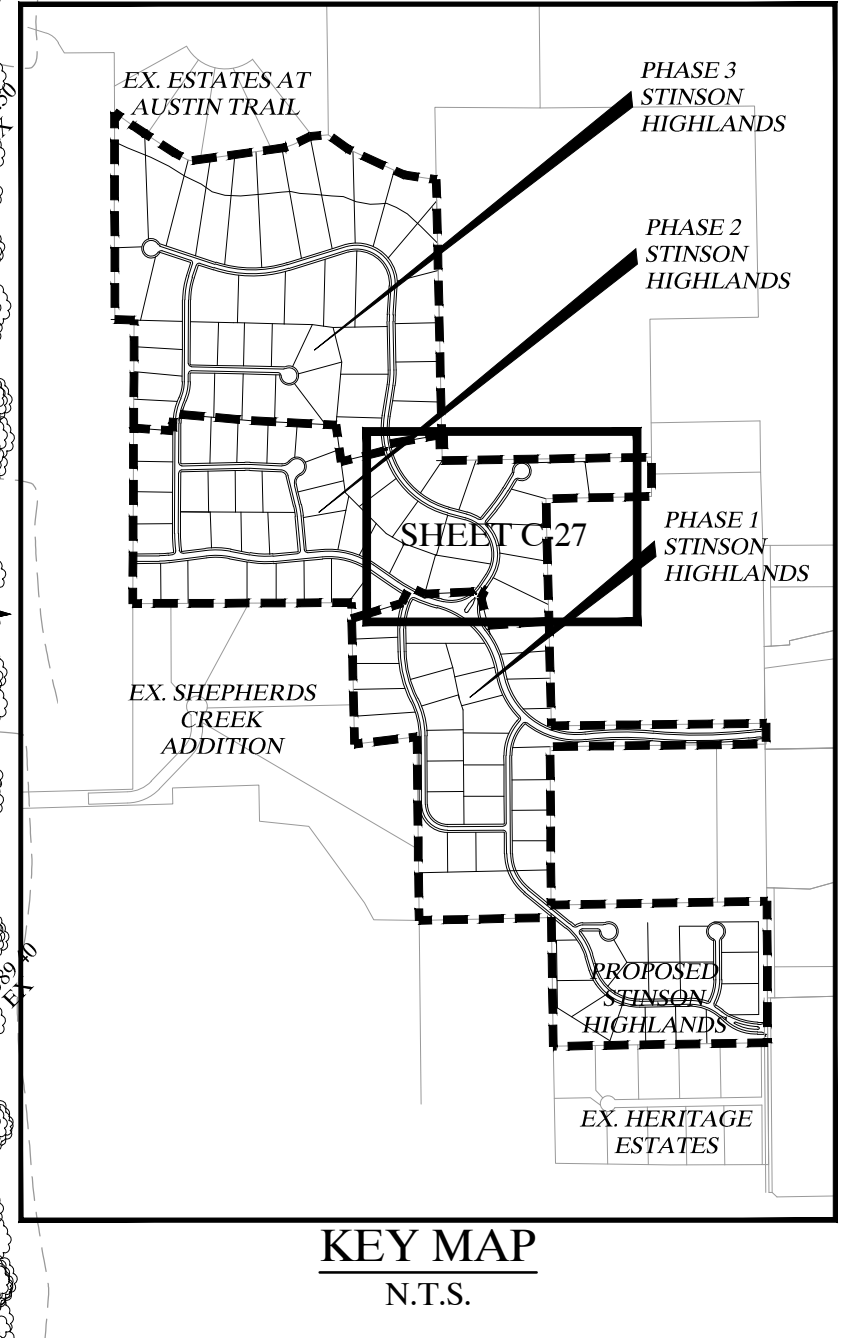


**STINSON HIGHLANDS
LUCAS, TEXAS**

**GRADING PLAN
(5 OF 10)**

**SHEET
C-27**

46.140 ACRES
ZOLDCO, INC.
INST. No. 20060404000435430
O.P.T.C.C.T.



LEGEND:

- DIRECTION OF FLOW
- DAYLIGHT LINE
- SPOT ELEVATION
- EX. SPOT ELEVATION
- FINISHED BUILDING PAD ELEVATION

"RECORD DRAWING"
THIS DRAWING HAS BEEN REVISED TO SHOW THOSE CHANGES DURING THE CONSTRUCTION PROCESS REPORTED BY THE CONTRACTOR TO KIMLEY-HORN AND ASSOCIATES, INC. AND CONSIDERED TO BE SIGNIFICANT. THIS DRAWING IS NOT GUARANTEED TO BE "AS BUILT" BUT IS BASED ON THE INFORMATION MADE AVAILABLE.
DATE: 03/09/2017 BY: *Paul E. Mayall*

FOR CLMIR INFORMATION, REFER TO FEMA CASE NO: 12-06-0979R, DATED MAY 23, 2012.
FOR FURTHER INFORMATION CONTACT THE DIRECTOR, MITIGATION DIVISION OF THE FEMA REGIONAL OFFICE IN DENTON, TEXAS OR THE FEMA MAP INFORMATION EXCHANGE.

BENCHMARKS:
1. (A) BM # 7655
CUT ON TOP OF HEADWALL AT NORTHWEST CORNER OF STINSON ROAD & JENNA WAY ELEVATION 574.13
(B) BM # 7656
CUT ON TOP OF HEADWALL ON WEST SIDE OF STINSON ROAD & 4.600 FT NORTH OF JENNA WAY ELEVATION 569.29
2. LOTS OR PORTION OF LOTS WITHIN THE FLOODPLAIN OR AREAS OF SPECIAL FLOOD HAZARD REQUIRE A DEVELOPMENT PERMIT PRIOR TO ISSUANCE OF A BUILDING PERMIT OR COMMENCEMENT OF CONSTRUCTION INCLUDING SITE GRADING, ON ALL OR PART OF THOSE LOTS.

IMAGES: 2010090 DEM dig aerial - s10001 (1) 20170809 DEM dig - cftmap - s10001 (2) 201706160893 - XREF of topobline - XREF of topobline - XREF of topobline
 DRAWN BY: R. V. GARDNER
 CHECKED BY: J. NATHAN
 DATE: 03/09/2017
 3:30 PM
 C:\projects\STINSON_HIGHLANDS\PLANS\GRADING_C-27.DWG

SHEPHERDS CREEK
ADDITION
CAB. L. SL. 242
P.R.C.C.T.

PHASE 2
PHASE 1

PHASE 2
OPEN SPACE
NO. LOT 35
PHASE 1

MATCHLINE SEE SHEET C-26

MATCHLINE SEE SHEET C-32

MATCHLINE SEE SHEET C-28

3' DEEP BAR DITCH
SEE SHEET C-24 FOR
TYPICAL SECTION

3' DEEP BAR DITCH
SEE SHEET C-24 FOR
TYPICAL SECTION

3' DEEP BAR DITCH
SEE SHEET C-24 FOR
TYPICAL SECTION

HIGHLAND DRIVE

PHASE 2
PHASE 1

ABBEVILLE DRIVE

INVERNESS COURT

INVERNESS LANE

PHASE 3
PHASE 2

31
FP 603.3

32
FP 601.0

6
FP 603.1

33
FP 601.8

2
FP 595.3

3
FP 596.3

1
FP 593.9

2
FP 595.0

3
FP 596.7

34
FP 595.9

1
FP 593.3

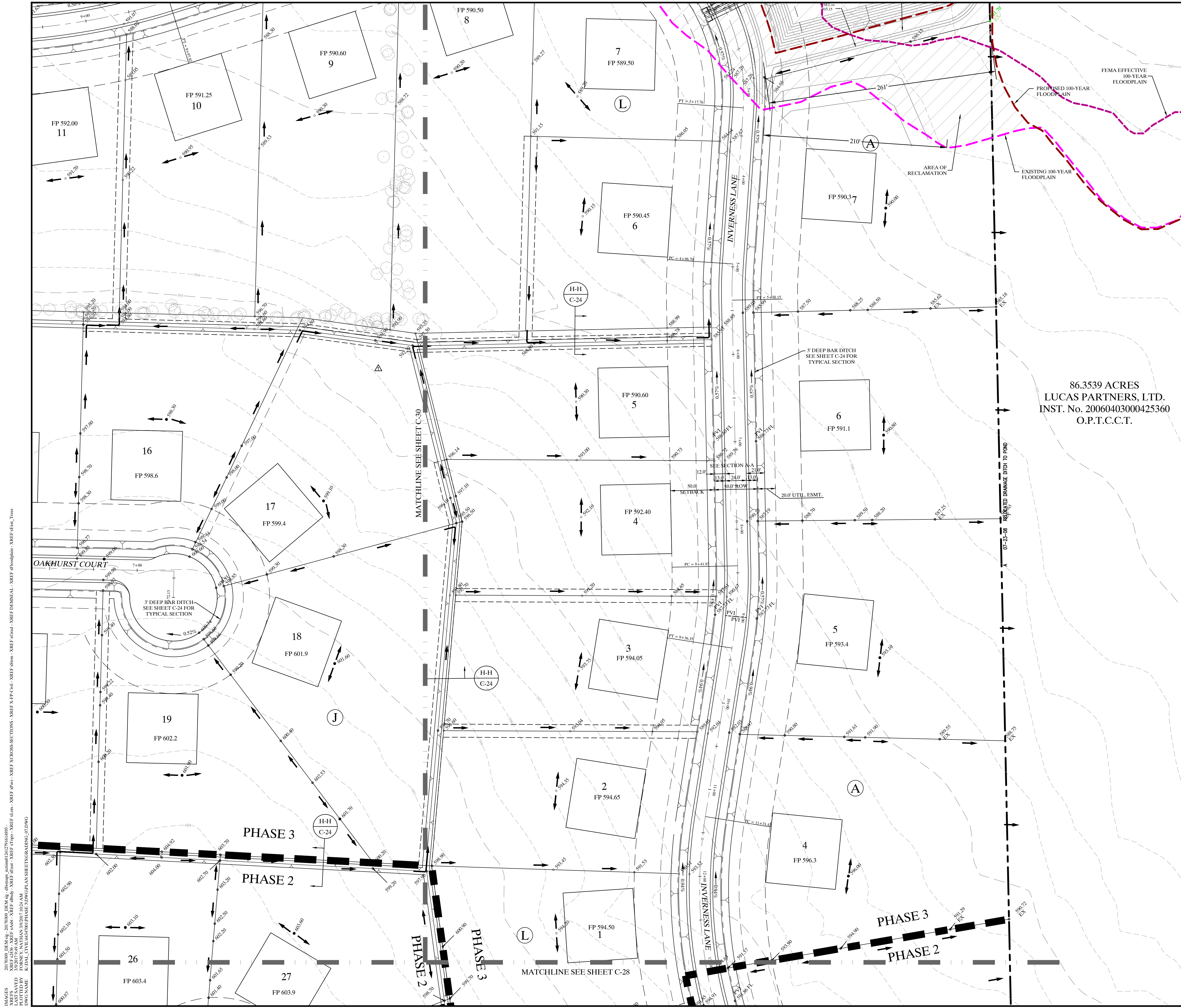
3
FP 593.6

4
FP 593.8

5
FP 593.9

1
FP 590.5

2
FP 593.1



**STOP!
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(at least 72 hours prior to digging)**

FOR CLMR INFORMATION, REFER TO FEMA CASE NO: 12-06-0979R, DATED MAY 23, 2012.

FOR FURTHER INFORMATION CONTACT THE DIRECTOR, MITIGATION DIVISION OF THE FEMA REGIONAL OFFICE IN DENTON, TEXAS, OR THE FEMA MAP INFORMATION EXCHANGE.

NOTE:

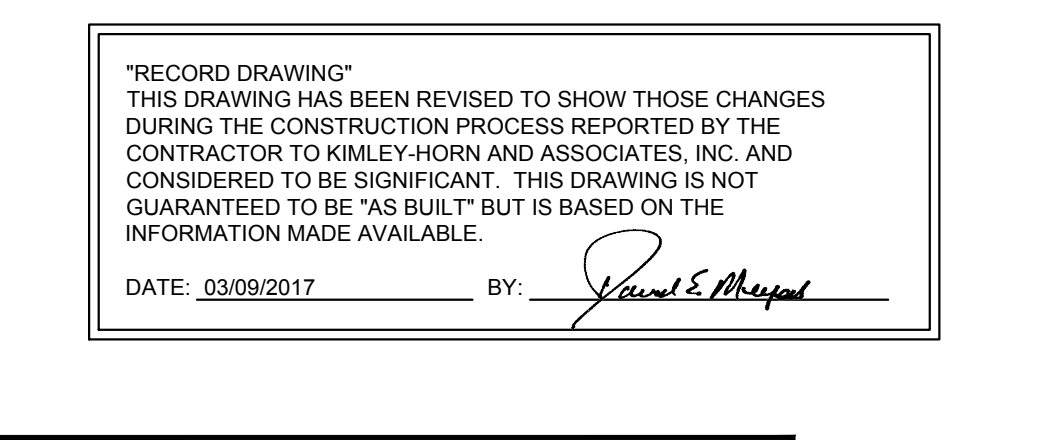
1. REFER TO SHEET C-2 FOR CONSTRUCTION NOTES
2. REFER TO SHEET C-30 FOR DETAILS.

LEGEND:

- DIRECTION OF FLOW
- - - DAYLIGHT LINE
- × 656.50 SPOT ELEVATION
- EX. 656.50 EX. SPOT ELEVATION
- FP 659.00 FINISHED BUILDING PAD ELEVATION

"RECORD DRAWING"
THIS DRAWING HAS BEEN REVISED TO SHOW THOSE CHANGES DURING THE CONSTRUCTION PROCESS REPORTED BY THE CONTRACTOR TO KIMLEY-HORN AND ASSOCIATES, INC. AND CONSIDERED TO BE SIGNIFICANT. THIS DRAWING IS NOT GUARANTEED TO BE "AS BUILT" BUT IS BASED ON THE INFORMATION MADE AVAILABLE.

DATE: 03/09/2017 BY: *David E. Meyer*



BENCHMARKS:

1. (A) BM # 7655
CUT ON TOP OF HEADWALL AT NORTHWEST CORNER OF STINSON ROAD & JENNA WAY ELEVATION 574.13
2. (B) BM # 7656
CUT ON TOP OF HEADWALL ON WEST SIDE OF STINSON ROAD & 4,600 FT NORTH OF JENNA WAY ELEVATION 569.28

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IMAGES: 2013099_DEM.dwg - 2013099_DEM.dwg - (dem.dwg, section) 12/19/10 14:55:03
 PLOTTED BY: JTH
 PLOT DATE: 2014 JUN 13 10:41 AM
 PLOT SCALE: 1" = 50'
 PROJECT: STINSON HIGHLANDS PHASE 3 LOT LAYOUT

5/23/16	REVISED PHASE 3 LOT LAYOUT	App.
No.	Date	Revisions

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PHONE: 972-270-1300 FAX: 972-239-3820
WWW.KIMLEY-HORN.COM TX F-928

STATE OF TEXAS
DAVID E. MEYERS
REGISTERED PROFESSIONAL ENGINEER
NO. 81512
EXPIRES 09/01/2018

**STINSON HIGHLANDS
LUCAS, TEXAS**

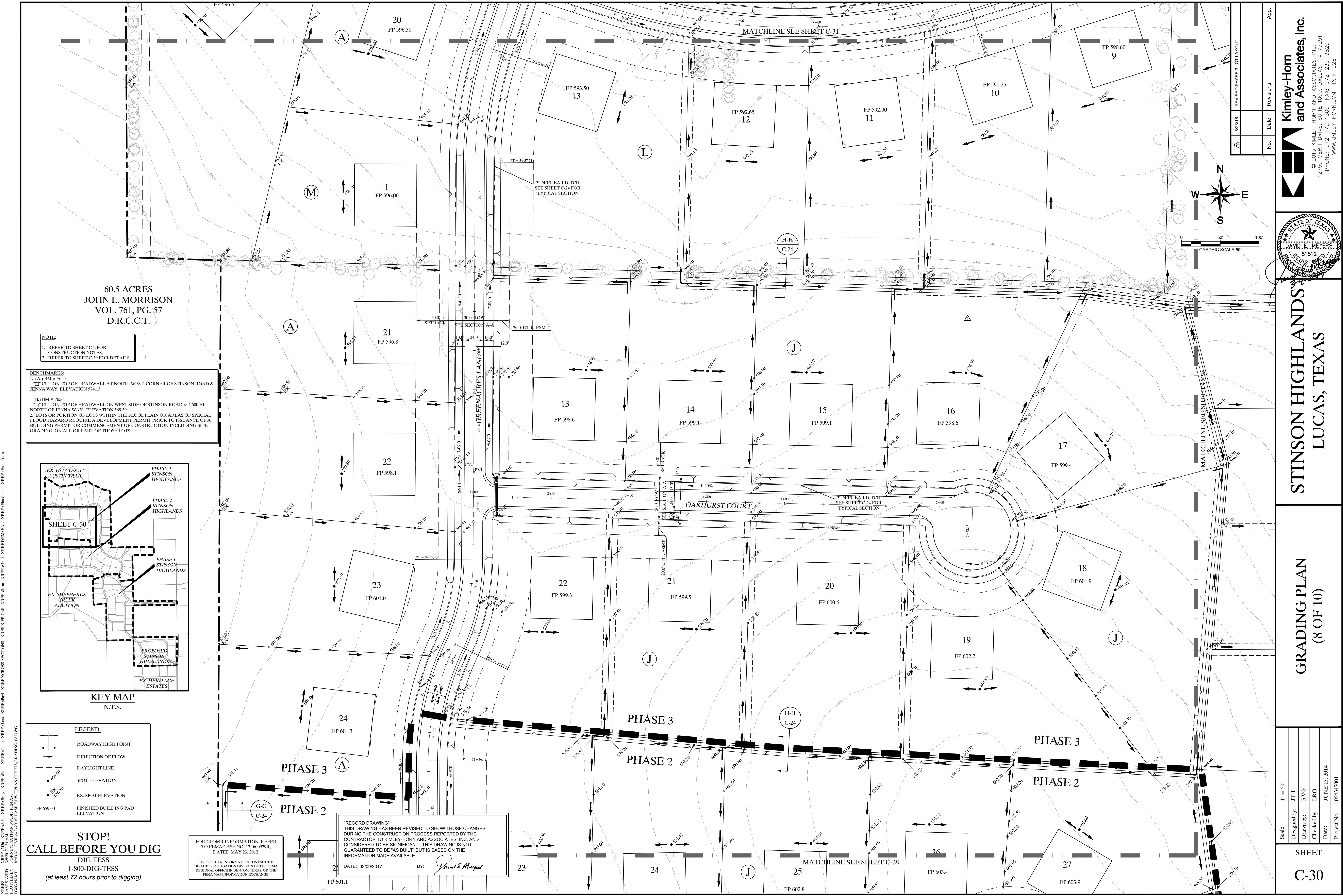
**GRADING PLAN
(7 OF 10)**

**SHEET
C-29**

Scale: 1" = 50'

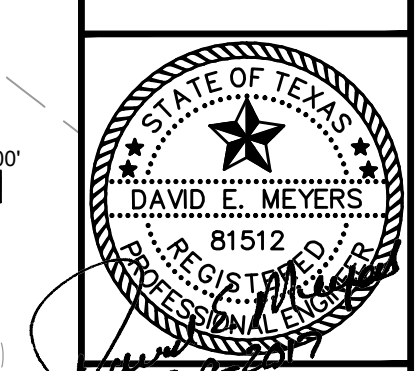
Designed by: JTH
Drawn by: RVG
Checked by: LRO
Date: JUNE 13, 2014
Project No. 064347001

86.3539 ACRES
LUCAS PARTNERS, LTD.
INST. No. 20060403000425360
O.P.T.C.C.T.



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No.	Date	Revisions	App.
1			
2			
3			



STINSON HIGHLANDS
LUCAS, TEXAS

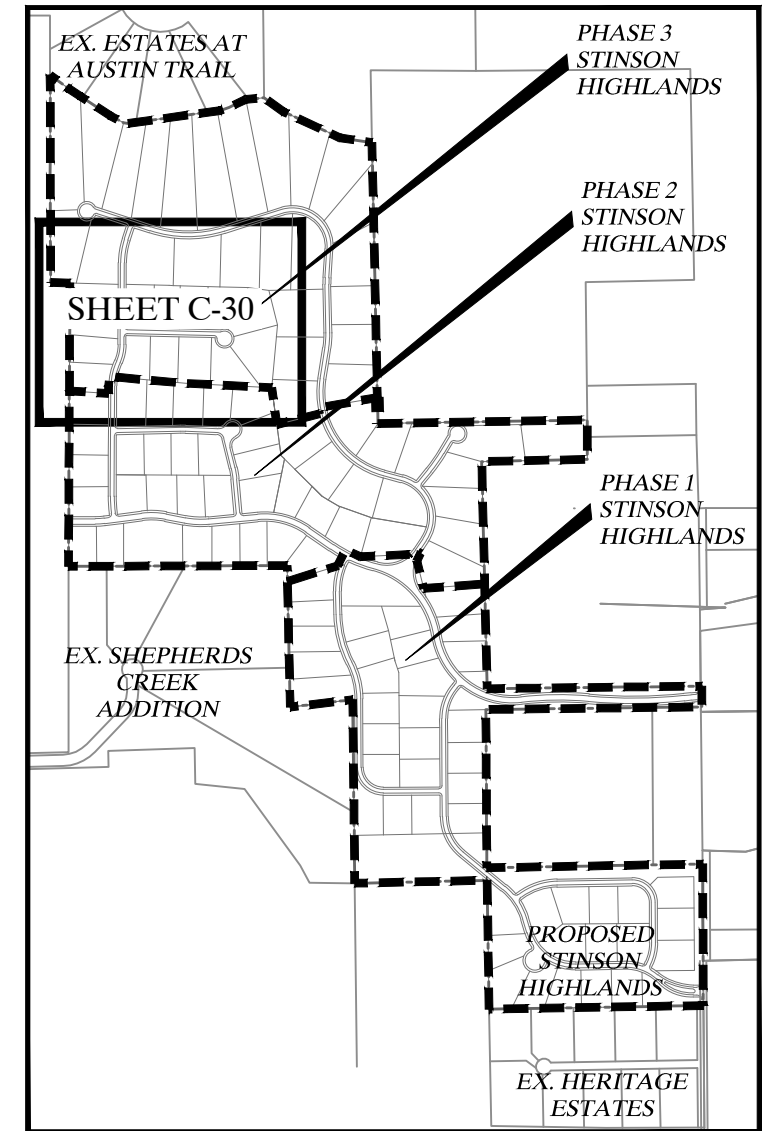
GRADING PLAN
(8 OF 10)

Scale: 1" = 50'
 Designed by: JTH
 Drawn by: RVG
 Checked by: LRO
 Date: JUNE 13, 2014
 Project No.: 064347001
SHEET
C-30

60.5 ACRES
 JOHN L. MORRISON
 VOL. 761, PG. 57
 D.R.C.C.T.

NOTE:
 1. REFER TO SHEET C-2 FOR CONSTRUCTION NOTES.
 2. REFER TO SHEET C-39 FOR DETAILS.

BENCHMARKS:
 1. (A) BM # 7655
 CUT ON TOP OF HEADWALL AT NORTHWEST CORNER OF STINSON ROAD & JENNA WAY ELEVATION 574.13
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- LEGEND:**
- ROADWAY HIGH POINT
 - DIRECTION OF FLOW
 - DAYLIGHT LINE
 - SPOT ELEVATION
 - EX. SPOT ELEVATION
 - FINISHED BUILDING PAD ELEVATION

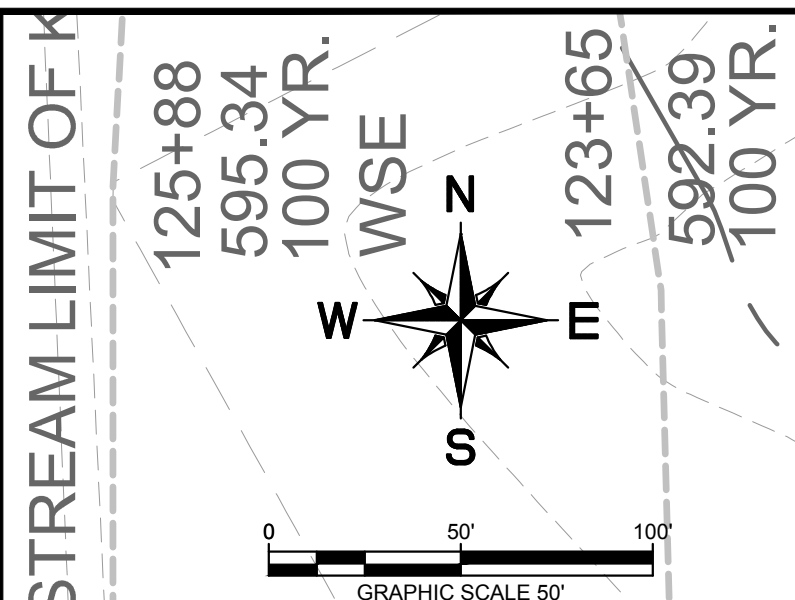
STOP!
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 (at least 72 hours prior to digging)

"RECORD DRAWING"
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 DATE: 03/09/2017 BY: *Paul S. Maynard*

FOR CLOMIR INFORMATION, REFER TO FEMA CASE NO. 12-06-0979R, DATED MAY 23, 2012.
 FOR FURTHER INFORMATION CONTACT THE DIRECTOR, MITIGATION DIVISION OF THE FEMA REGIONAL OFFICE IN DENTON, TEXAS OR THE FEMA MAP INFORMATION EXCHANGE.

201309 DEM.dwg - 201309 DEM.dwg - (desmap, acem) 12/19/10 14:05
 PLOTTER: JTB (MIDLAND) 3/20/17 10:21 AM
 PLOTTED BY: JTB (MIDLAND) 3/20/17 10:21 AM
 PLOT DATE: 3/20/17 10:21 AM
 PLOT TIME: 3/20/17 10:21 AM

20130909.DEM.dwg - 20130909.DEM.dwg - 1/4" = 50' - 12/15/13 10:48:05 AM
C:\PSD\PROJECTS\20130909.DEM.dwg - 20130909.DEM.dwg - 1/4" = 50' - 12/15/13 10:48:05 AM
DESIGNED BY JTH
DRAWN BY RVG
CHECKED BY LRO
DATE: JUNE 13, 2014
PROJECT NO. 064547001



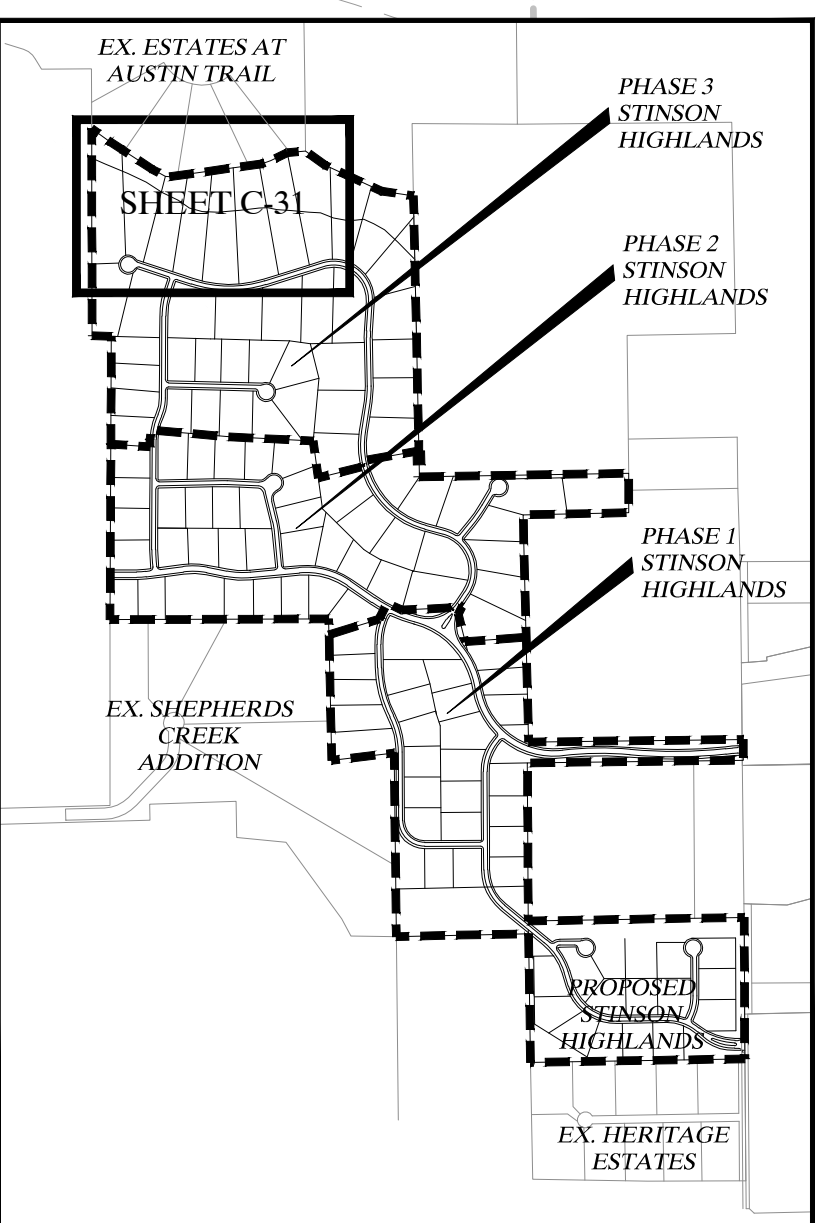
NOTE:
1. REFER TO SHEET C-2 FOR CONSTRUCTION NOTES.
2. REFER TO SHEET C-39 FOR DETAILS.

LEGEND:
—→ DIRECTION OF FLOW
- - - DAYLIGHT LINE
• SPOT ELEVATION
• EX. SPOT ELEVATION
FP 659.00 FINISHED BUILDING PAD ELEVATION

FOR CLOMR INFORMATION, REFER TO FEMA CASE NO. 12-06-0979R, DATED MAY 23, 2012 AND UPDATED FLOOD STUDY BY KIMLEY-HORN DATED JUNE 5, 2014

BENCHMARKS:
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CUT ON TOP OF HEADWALL AT NORTHWEST CORNER OF STINSON ROAD & JENNA WAY ELEVATION 574.13
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LEWIS BEND PARTNERS
VOL. __, PG. __
D.R.C.C.T.

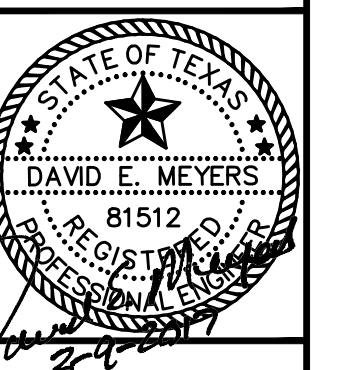


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"RECORD DRAWING"
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DATE: 03/09/2017 BY: *David E. Meyer*

NO.	DATE	REVISIONS
1		ADDED PONDS
2		REVISED PHASE 3 LOT LAYOUT
3		ADD OUTFALL RIP RAP

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PHONE: 972-276-1300 FAX: 972-239-3820
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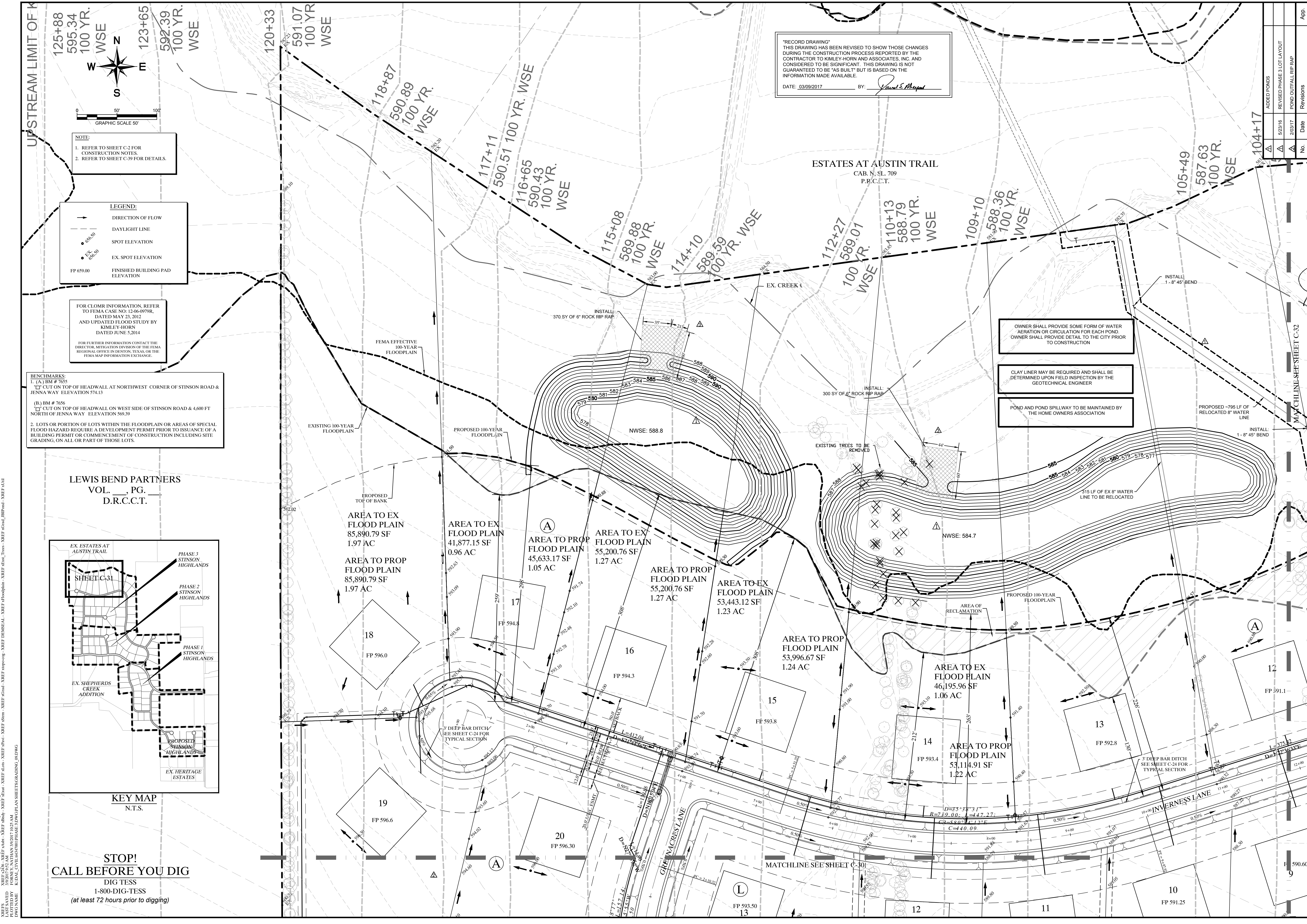


**STINSON HIGHLANDS
LUCAS, TEXAS**

**GRADING PLAN
(9 OF 10)**

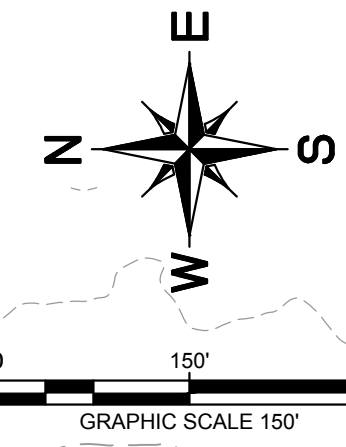
Scale:	1" = 50'
Designed by:	JTH
Drawn by:	RVG
Checked by:	LRO
Date:	JUNE 13, 2014
Project No.:	064547001

**SHEET
C-31**



RUNOFF CALCULATIONS

AREA RUNOFF						
AREA I.D.	AREA (AC)	RUNOFF COEFF "C"	TIME OF CONC. (MIN)	100 (IN/HR.)	"Q"100 (C.F.S.)	INLET PICK-UP POINTS
A	12.54	0.38	15	7.52	35.83	OFFSITE
B	9.73	0.38	15	7.52	27.80	POND 1
C	8.03	0.43	15	7.52	25.97	CULVERT P
D	1.73	0.30	15	7.52	3.90	OFFSITE
E	27.89	0.38	15	7.52	79.70	CULVERT O
F	5.42	0.43	15	7.52	17.53	OFFSITE
G	6.53	0.43	15	7.52	21.12	CULVERT N
H	4.64	0.43	15	7.52	15.00	CULVERT M
I	6.58	0.43	15	7.52	21.28	CULVERT L
J	9.59	0.43	15	7.52	31.01	CULVERT K
K	3.71	0.43	15	7.52	12.00	CULVERT J
L	11.54	0.43	15	7.52	37.32	CULVERTS I-1, I-2, & I-3
M	12.45	0.43	15	7.52	40.26	POND 3
N	2.21	0.30	15	7.52	4.99	OFFSITE
O	1.19	0.43	15	7.52	3.85	OFFSITE
P	3.11	0.30	15	7.52	7.02	OFFSITE
Q	3.07	0.43	15	7.52	9.93	OFFSITE
R	3.04	0.43	15	7.52	9.83	POND 2
S	4.41	0.43	15	7.52	14.26	CULVERT H
T	3.05	0.43	15	7.52	9.86	OFFSITE
U	13.08	0.43	15	7.52	42.30	CULVERT F
V	3.97	0.43	15	7.52	12.84	CULVERT E
W	2.57	0.43	15	7.52	8.31	OFFSITE
X	1.97	0.43	15	7.52	6.37	CULVERT B
Y	0.49	0.43	15	7.52	1.58	POND 4
Z	1.26	0.43	15	7.52	4.07	CULVERT D
AA	4.81	0.43	15	7.52	15.55	OFFSITE
BB	3.35	0.43	15	7.52	10.83	CULVERT D
CC	2.39	0.43	15	7.52	7.73	POND 5
DD	4.62	0.43	15	7.52	14.94	CULVERT Q
EE	5.01	0.43	15	7.52	16.20	CULVERT A
FF	4.48	0.43	15	7.52	14.49	POND 5
GG	0.11	0.43	15	7.52	0.36	OFFSITE
HH	1.39	0.43	15	7.52	4.49	CULVERT S
II	1.79	0.43	15	7.52	5.79	POND 5
JJ	2.91	0.43	15	7.52	9.41	CULVERT R
KK	1.23	0.43	15	7.52	3.98	CULVERT C
LL	1.19	0.30	15	7.52	2.68	OFFSITE
MM	1.93	0.43	15	7.52	6.24	OFFSITE
NN	3.15	0.30	15	7.52	7.11	OFFSITE
OO	5.08	0.43	15	7.52	16.43	OFFSITE
PP	11.28	0.38	15	7.52	32.23	OFFSITE
OS-1	14.91	0.43	15	7.52	48.21	CULVERT D
OS-2	7.92	0.43	15	7.52	25.61	CULVERT B
OS-3	7.72	0.43	15	7.52	24.96	CULVERT A
OO	2.29	0.43	15	7.52	7.40	CULVERT T

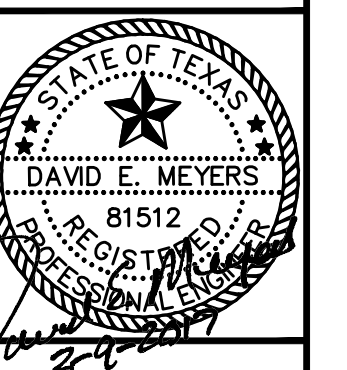


LEGEND:

- A** - DRAINAGE AREA I.D.
- 0.9 - ACRES
- 5.0 - Q100
- AA** - DRAINAGE AREA I.D.
- 0.9 - ACRES
- 5.0 - Q100
- DRAINAGE AREA BOUNDARY
- FLOW ARROW

No.	Date	Revisions	App.

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 PHONE: 972-276-1300 FAX: 972-239-3820
 WWW.KIMLEY-HORN.COM TX F-928



STINSON HIGHLANDS LUCAS, TEXAS

DRAINAGE AREA MAP - SOUTH

Scale: 1" = 150'
 Designed by: JTH
 Drawn by: RVG
 Checked by: LRO
 Date: JUNE 13, 2014
 Project No. 064347001

SHEET C-33

IMAGES: 201309 DEM.dwg - 201309 DEM.dwg - (d:\temp\acem\012179\01485)
 PLOTTED BY: FORNBY, NATHAN 3/30/2017 10:27 AM
 LAST SAVED: 3/30/2017 9:56 AM
 FILE: C:\WORKSPACE\PHASE 3\3000PHAS3.DWG

5.00 ACRES
 DELORES R. SMITHERMAN
 VOL. 03923, PG. 00032
 D.R.C.C.T.

86.3539 ACRES
 LUCAS PARTNERS, LTD.
 INST. No.
 20060403000425360
 O.P.T.C.C.T.

46.140 ACRES
 ZOLDCO, INC.
 INST. No.
 20060404000435430
 O.P.T.C.C.T.

REMAINDER OF
 26.027 ACRES
 WARREN L. NORRIS
 VOL. 05009, PG. 00699
 D.R.C.C.T.

LOT 1 & LOT 2, BLOCK A
 PAYTON PLACE
 CAB. Q. SL. 557
 P.R.C.C.T.

15.961 ACRES
 NORRIS RANCH, LTD.
 VOL. 05878, PG. 02019
 D.R.C.C.T.

29.185 ACRES
 (TRACTS 19 & 20)
 DEAN YOUNG
 HOMESTEAD, LTD.
 VOL. 05167, PG. 03443
 D.R.C.C.T.

LOZANO ADDITION
 CAB. P. SL. 10
 P.R.C.C.T.

LETICIA LOZANO
 VOL. 05161, PG. 05224
 D.R.C.C.T.

KIRKLAND ESTATES
 VOL. 8, PG. 24
 D.R.C.C.T.

LESLIE McCREARY &
 GLADYS McCREARY
 (FIRST TRACT)
 VOL. 595, PG. 197
 D.R.C.C.T.

LESLIE McCREARY &
 GLADYS McCREARY
 (SECOND TRACT)
 VOL. 595, PG. 197
 D.R.C.C.T.

29.5 ACRES
 WATSON McCREARY
 VOL. 334, PG. 119
 D.C.C.C.T.

HERITAGE ESTATES
 CAB. C. SL. 750
 P.R.C.C.T.

PHASE 1
 PHASE 2
 PHASE 3

HOA LOT 1 POND 2
 HOA LOT 12 POND 5
 HOA LOT 11 POND 4

OPEN SPACE HOA LOT 1
 OPEN SPACE HOA LOT 2
 OPEN SPACE HOA LOT 3
 OPEN SPACE HOA LOT 4

CULVERT A
 CULVERT B
 CULVERT C
 CULVERT D
 CULVERT E
 CULVERT F
 CULVERT G
 CULVERT H
 CULVERT I
 CULVERT J
 CULVERT K
 CULVERT L
 CULVERT M
 CULVERT N
 CULVERT O
 CULVERT P
 CULVERT Q
 CULVERT R
 CULVERT S
 CULVERT T

POND 1
 POND 2
 POND 3
 POND 4
 POND 5

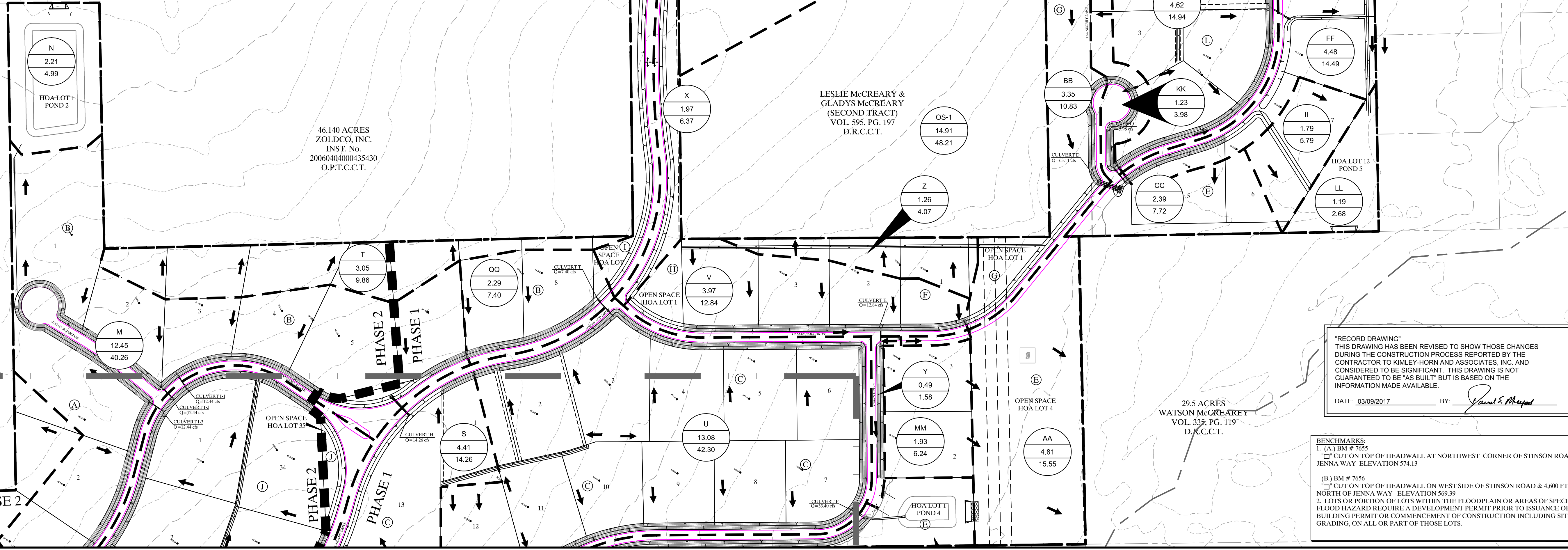
OS-1
 OS-2
 OS-3

AA
 BB
 CC
 DD
 EE
 FF
 GG
 HH
 II
 JJ
 KK
 LL
 MM
 NN
 OO
 PP
 QQ

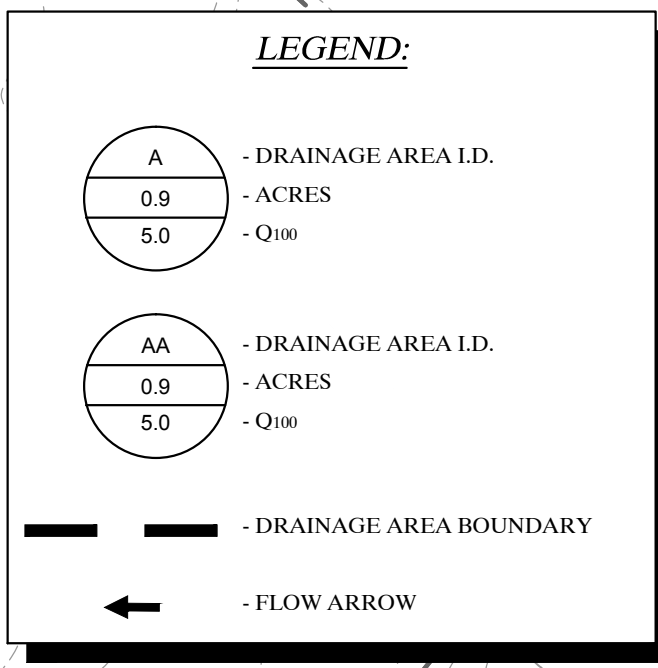
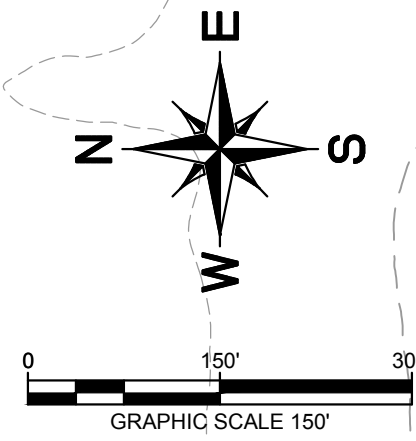
W
 X
 Y
 Z

2.21
4.99
12.45
40.26
3.05
9.86
2.29
7.40
4.41
14.26
13.08
42.30
0.49
1.58
1.93
6.24
5.42
17.53

2.57
8.31
1.97
6.37
7.92
25.61
7.72
24.96
5.01
16.20
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4.49
2.91
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15.55
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3.97
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3.97
12.84
4.41
14.26
13.08
42.30
0.49
1.58
1.93
6.24
5.42
17.53



MATCHLINE SEE SHEET C-34



86.3539 ACRES
LUCAS PARTNERS, LTD.
INST. No. 20060403000425360
O.P.T.C.C.T.

46.140 ACRES
ZOLDCO, INC.
INST. No. 20060404000435430
O.P.T.C.C.T.

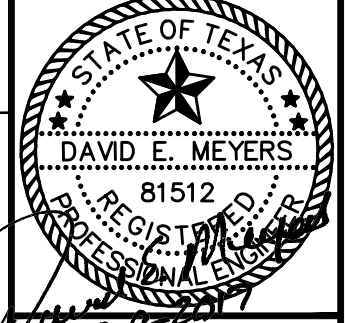
59.030 ACRES
STINSON CROSSING,
LTD.
INST. No. 20061017001488020
O.P.T.C.C.T.

ESTATES AT AUSTIN
TRAIL
CAB. N. SL. 709
P.R.C.C.T.

SHEPHERDS CREEK
ADDITION
CAB. L. SL. 242
P.R.C.C.T.

MATCHLINE SEE SHEET C-33

Lot Numbers	Runoff Coef. "C"	I (in/hr)	A (acres)	Culvert Sizing				Culvert Capacity (cfs)
				Q (cfs)	Slope "s"	n	Culvert Size (inches)	
A4	0.43	7.52	1.17	3.78	0.50%	0.013	18	7.43
A5	0.43	7.52	1.80	5.82	0.50%	0.013	18	7.43
A6	0.43	7.52	2.46	7.95	0.50%	0.013	24	16.00
A7	0.43	7.52	3.03	9.80	0.50%	0.013	24	16.00
A9	0.43	7.52	12.47	40.33	0.50%	0.013	36	47.16
A10	0.43	7.52	12.32	39.84	0.50%	0.013	36	47.16
A11	0.43	7.52	12.18	39.39	0.50%	0.013	36	47.16
A12	0.43	7.52	11.87	38.39	0.50%	0.013	36	47.16
A13	0.43	7.52	11.28	36.48	0.50%	0.013	36	47.16
A14	0.43	7.52	10.54	34.09	0.50%	0.013	36	47.16
A15	0.43	7.52	9.87	31.92	0.50%	0.013	36	47.16
A16	0.43	7.52	1.66	5.37	0.50%	0.013	18	7.43
A17	0.43	7.52	1.10	3.56	0.50%	0.013	18	7.43
A18	0.43	7.52	0.74	2.38	0.50%	0.013	18	7.43
A19	0.43	7.52	2.12	6.86	0.50%	0.013	18	7.43
A20	0.43	7.52	4.23	13.69	0.50%	0.013	24	16.00
A21	0.43	7.52	3.42	11.05	0.50%	0.013	24	16.00
A22	0.43	7.52	2.24	7.24	0.50%	0.013	18	7.43
A23	0.43	7.52	1.12	3.63	0.50%	0.013	18	7.43
A24	0.43	7.52	1.05	3.40	0.50%	0.013	18	7.43
J5	0.43	7.52	3.64	11.75	0.50%	0.013	24	16.00
J6	0.43	7.52	7.14	23.08	0.50%	0.013	30	29.00
J7	0.43	7.52	9.87	31.91	0.50%	0.013	36	47.16
J8	0.43	7.52	21.78	70.41	0.50%	0.013	2-36	94.33
J9	0.43	7.52	18.91	61.15	0.50%	0.013	2-36	94.33
J10	0.43	7.52	16.34	52.84	0.50%	0.013	2-36	94.33
J11	0.43	7.52	13.25	42.85	0.50%	0.013	36	47.16
J12	0.43	7.52	10.40	33.63	0.50%	0.013	36	47.16
J13	0.43	7.52	8.27	26.73	0.50%	0.013	30	29.00
J14	0.43	7.52	1.35	4.37	0.50%	0.013	18	7.43
J15	0.43	7.52	0.89	2.88	0.50%	0.013	18	7.43
J16	0.43	7.52	0.50	1.62	0.50%	0.013	18	7.43
J17	0.43	7.52	0.22	0.71	0.50%	0.013	18	7.43
J18	0.43	7.52	0.48	1.55	0.50%	0.013	18	7.43
J19	0.43	7.52	1.47	4.75	0.50%	0.013	18	7.43
J20	0.43	7.52	2.99	9.65	0.50%	0.013	24	16.00
J21	0.43	7.52	4.38	14.15	0.50%	0.013	24	16.00
J22	0.43	7.52	5.85	18.91	0.50%	0.013	30	29.00



**STINSON HIGHLANDS
DRAINAGE AREA MAP
- NORTH**

**STINSON HIGHLANDS
DRAINAGE AREA MAP
- NORTH**

Scale: 1" = 150'
Designed by: JTH
Drawn by: RVG
Checked by: LRO
Date: JUNE 13, 2014
Project No. 064347001

**Kimley-Horn
and Associates, Inc.**
© 2013 KIMLEY-HORN AND ASSOCIATES, INC. 6251
12505 KIMLEY-HORN DRIVE, SUITE 1300, FAYETTEVILLE, AR 72703
PHONE: 972-776-1300 FAX: 972-776-3820
WWW.KIMLEY-HORN.COM TX F-928

201306 DEM.dwg - 201306 DEM.dwg - (dwgname, acctno)12121916148802
PLOT13.DWG - 201306 DEM.dwg - (dwgname, acctno)12121916148802
PLOT13.DWG - 201306 DEM.dwg - (dwgname, acctno)12121916148802
PLOT13.DWG - 201306 DEM.dwg - (dwgname, acctno)12121916148802
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PLOT13.DWG - 201306 DEM.dwg - (dwgname, acctno)12121916148802
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PLOT13.DWG - 201306 DEM.dwg - (dwgname, acctno)12121916148802
PLOT13.DWG - 201306 DEM.dwg - (dwgname, acctno)12121916148802

LEWIS BEND
PARTNERS
VOL. PG.
D.R.C.C.T.

60.5 ACRES
JOHN L. MORRISON
VOL. 761, PG. 57
D.R.C.C.T.

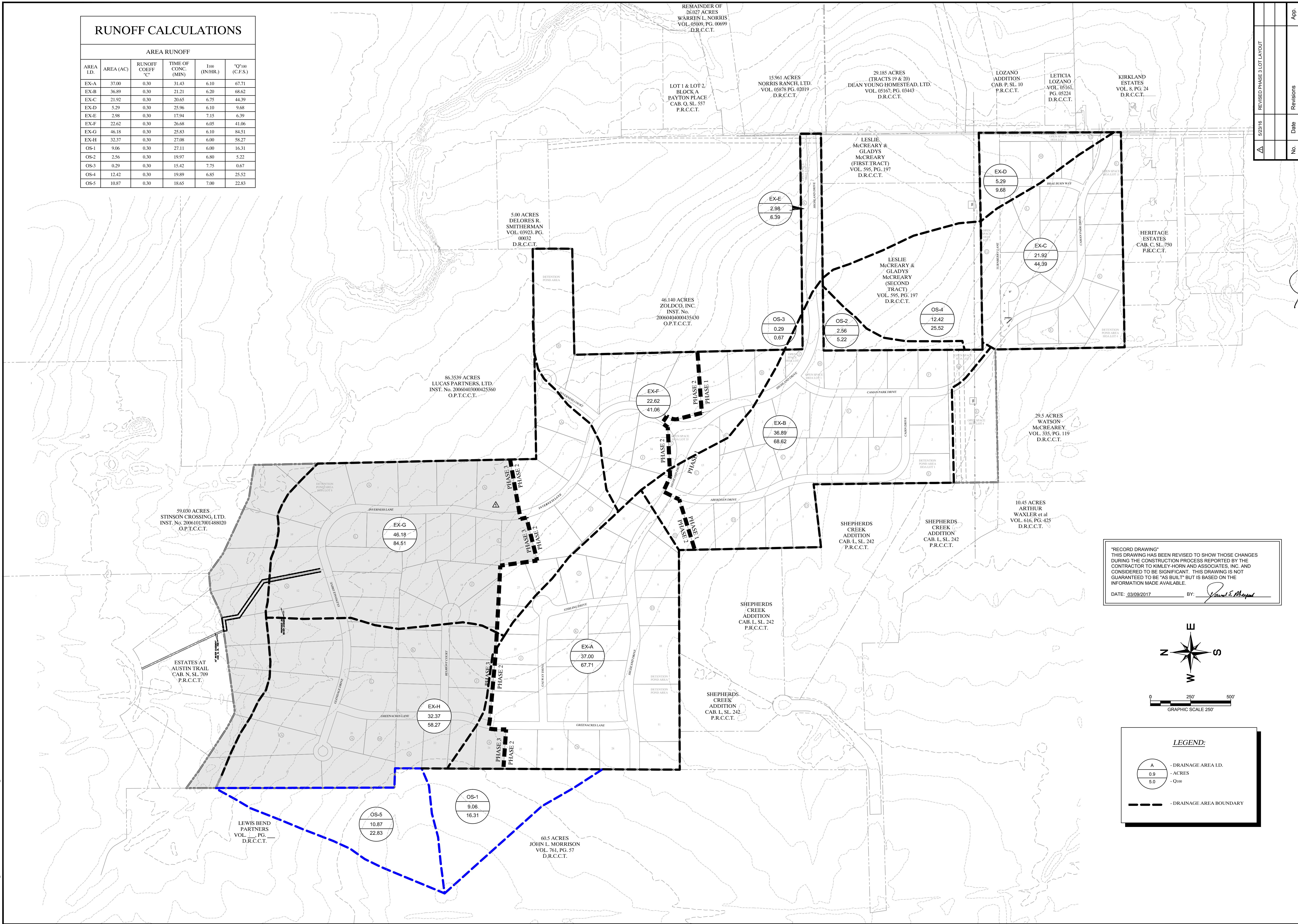
"RECORD DRAWING"
THIS DRAWING HAS BEEN REVISED TO SHOW THOSE CHANGES
DURING THE CONSTRUCTION PROCESS REPORTED BY THE
CONTRACTOR TO KIMLEY-HORN AND ASSOCIATES, INC. AND
CONSIDERED TO BE SIGNIFICANT. THIS DRAWING IS NOT
GUARANTEED TO BE "AS BUILT" BUT IS BASED ON THE
INFORMATION MADE AVAILABLE.
DATE: 03/09/2017 BY: David E. Meyers

NOTES:
1. REFER TO SHEET C-33 FOR
RUN-OFF CALCULATION TABLE.

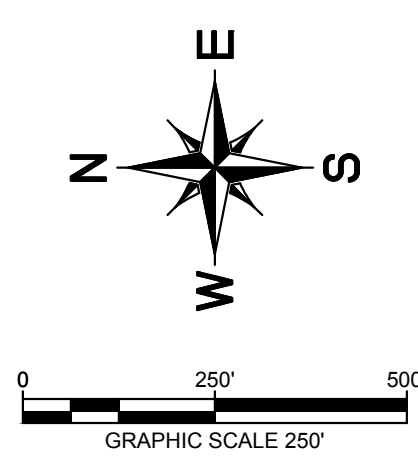
BENCHMARKS:
1. (A) BM # 7655
CUT ON TOP OF HEADWALL AT NORTHWEST CORNER OF STINSON ROAD &
JENNA WAY ELEVATION 574.13
(B) BM # 7656
CUT ON TOP OF HEADWALL ON WEST SIDE OF STINSON ROAD & 4.600 FT
NORTH OF JENNA WAY ELEVATION 569.39
2. LOTS OR PORTION OF LOTS WITHIN THE FLOODPLAIN OR AREAS OF SPECIAL
FLOOD HAZARD REQUIRE A DEVELOPMENT PERMIT PRIOR TO ISSUANCE OF A
BUILDING PERMIT OR COMMENCEMENT OF CONSTRUCTION INCLUDING SITE
GRADING, ON ALL OR PART OF THOSE LOTS.

RUNOFF CALCULATIONS

AREA RUNOFF					
AREA I.D.	AREA (AC)	RUNOFF COEFF "C"	TIME OF CONC. (MIN)	I ₁₀₀ (IN/HR)	"Q" ₁₀₀ (C.F.S.)
EX-A	37.00	0.30	31.43	6.10	67.71
EX-B	36.89	0.30	21.21	6.20	68.62
EX-C	21.92	0.30	20.65	6.75	44.39
EX-D	5.29	0.30	25.96	6.10	9.68
EX-E	2.98	0.30	17.94	7.15	6.39
EX-F	22.62	0.30	26.68	6.05	41.06
EX-G	46.18	0.30	25.83	6.10	84.51
EX-H	32.37	0.30	27.08	6.00	58.27
OS-1	9.06	0.30	27.11	6.00	16.31
OS-2	2.56	0.30	19.97	6.80	5.22
OS-3	0.29	0.30	15.42	7.75	0.67
OS-4	12.42	0.30	19.89	6.85	25.52
OS-5	10.87	0.30	18.65	7.00	22.83



"RECORD DRAWING"
 THIS DRAWING HAS BEEN REVISED TO SHOW THOSE CHANGES DURING THE CONSTRUCTION PROCESS REPORTED BY THE CONTRACTOR TO KIMLEY-HORN AND ASSOCIATES, INC. AND CONSIDERED TO BE SIGNIFICANT. THIS DRAWING IS NOT GUARANTEED TO BE "AS BUILT" BUT IS BASED ON THE INFORMATION MADE AVAILABLE.
 DATE: 03/09/2017 BY: *David S. Mayfield*

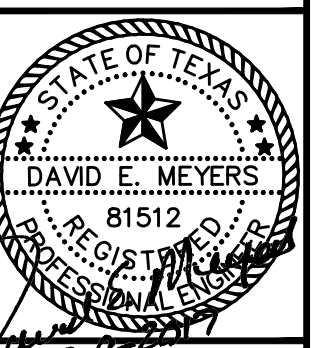


LEGEND:

- A - DRAINAGE AREA I.D.
- 0.9 - ACRES
- 5.0 - I₁₀₀
- DRAINAGE AREA BOUNDARY

No.	Date	Revisions	App.
1	5/23/16	REVISED PHASE 3 LOT LAYOUT	

Kimley-Horn and Associates, Inc.
 2015 KIMLEY-HORN AND ASSOCIATES, INC. 5251
 12950 KIMLEY-HORN DRIVE, SUITE 1300, FAYETTEVILLE, TX 75251
 PHONE: 972-771-1300 FAX: 972-771-3820
 WWW.KIMLEY-HORN.COM TX F-928



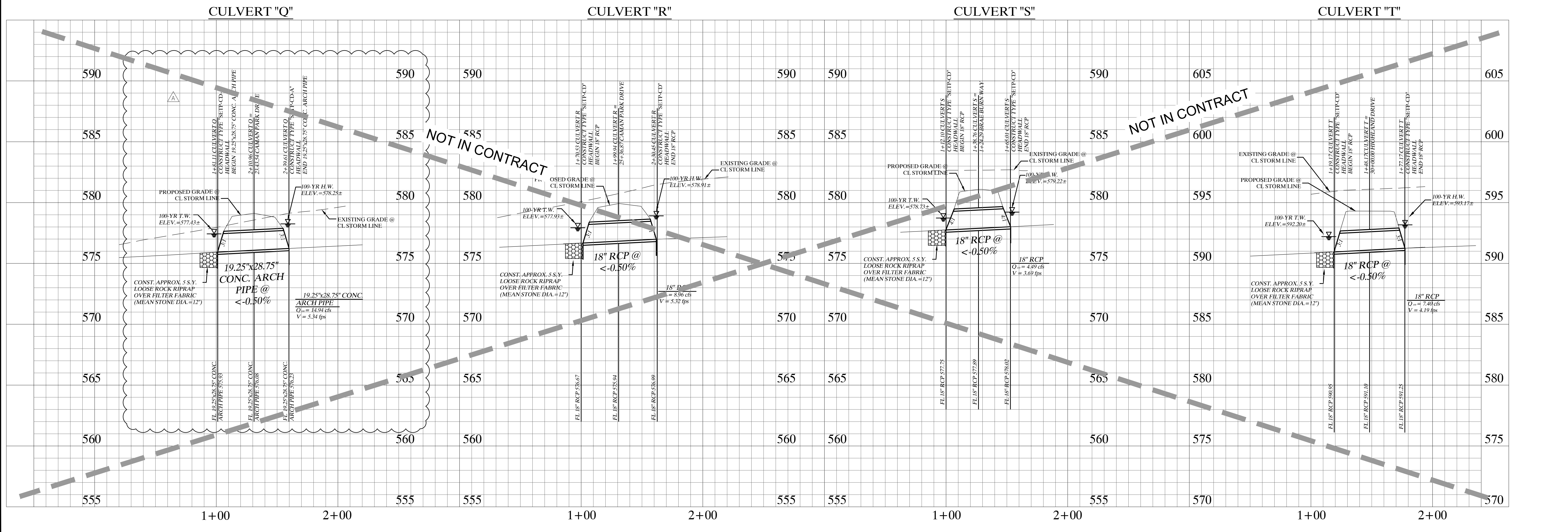
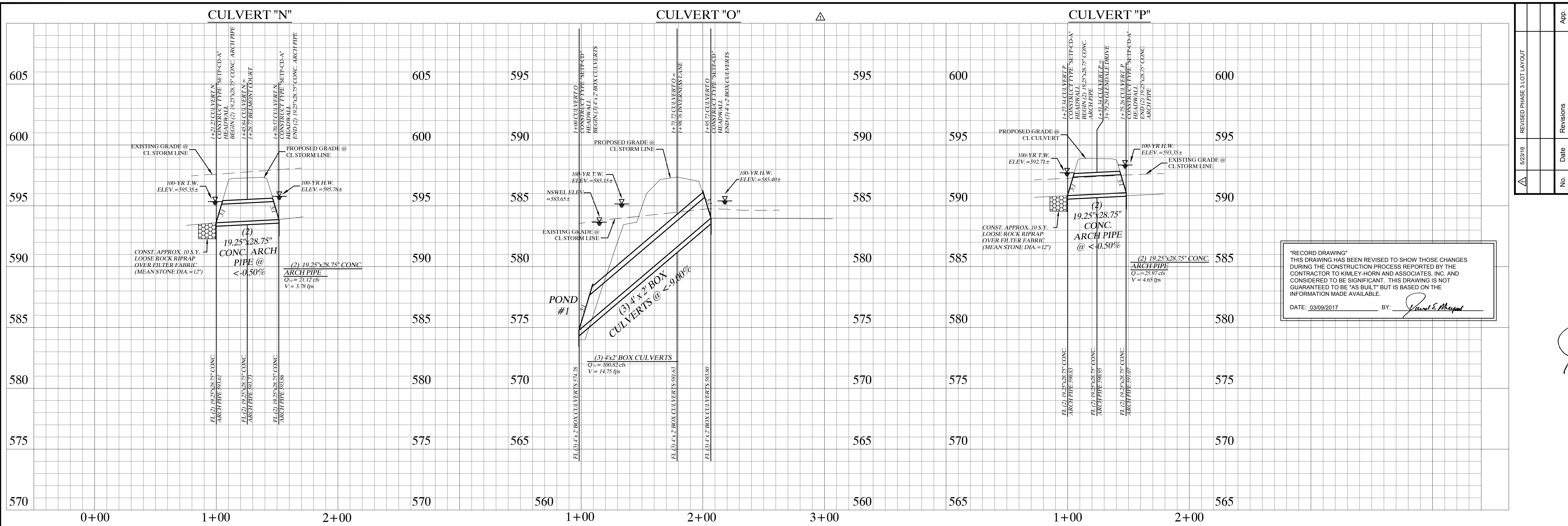
**STINSON HIGHLANDS
 LUCAS, TEXAS**

**EXISTING
 DRAINAGE AREA MAP**

Scale: 1" = 250'

Designed by:	JTH
Drawn by:	BIS
Checked by:	LRO
Date:	JUNE 13, 2014
Project No.:	064347001

IMAGES: 2013099_DEM.dwg - 2013099_DEM.dwg - (d:\temp\ecad\0121291614893...
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 PLOTTED BY: FORNBY, NATHAN 3/30/2017 10:27 AM
 PLOT: C:\Users\fornbys\OneDrive\Documents\STINSON_HIGHLANDS\DWG



No.	Date	Revisions	App.
523/16		REVISED PHASE 3 LOT LAYOUT	

"RECORD DRAWING"
THIS DRAWING HAS BEEN REVISED TO SHOW THOSE CHANGES DURING THE CONSTRUCTION PROCESS REPORTED BY THE CONTRACTOR TO KIMLEY-HORN AND ASSOCIATES, INC. AND CONSIDERED TO BE SIGNIFICANT. THIS DRAWING IS NOT GUARANTEED TO BE "AS BUILT" BUT IS BASED ON THE INFORMATION MADE AVAILABLE.
DATE: 03/09/2017 BY: *Paul E. Meyer*

Kimley-Horn and Associates, Inc.
© 2015 KIMLEY-HORN AND ASSOCIATES, INC. 25251
12th Street, Suite 400, Dallas, TX 75244-1195
PHONE: 972-771-1300 FAX: 972-771-3820
WWW.KIMLEY-HORN.COM TX F-928

STINSON HIGHLANDS LUCAS, TEXAS

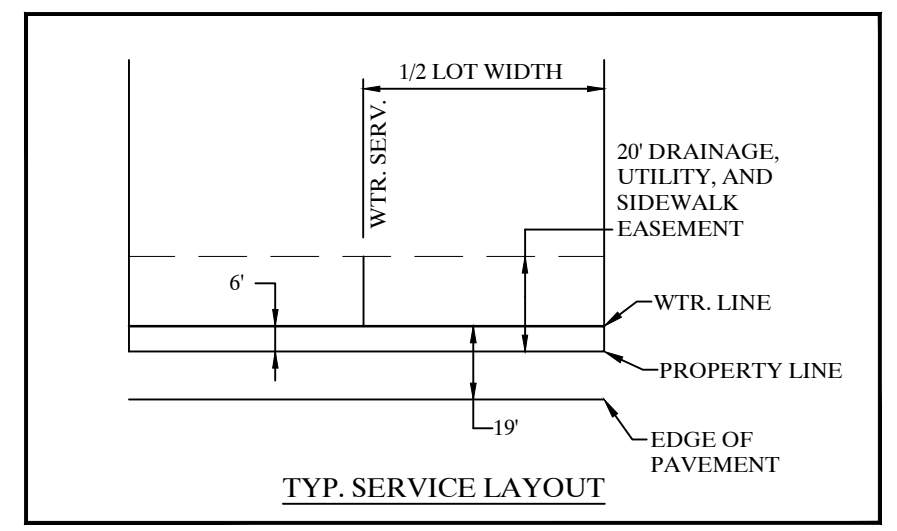
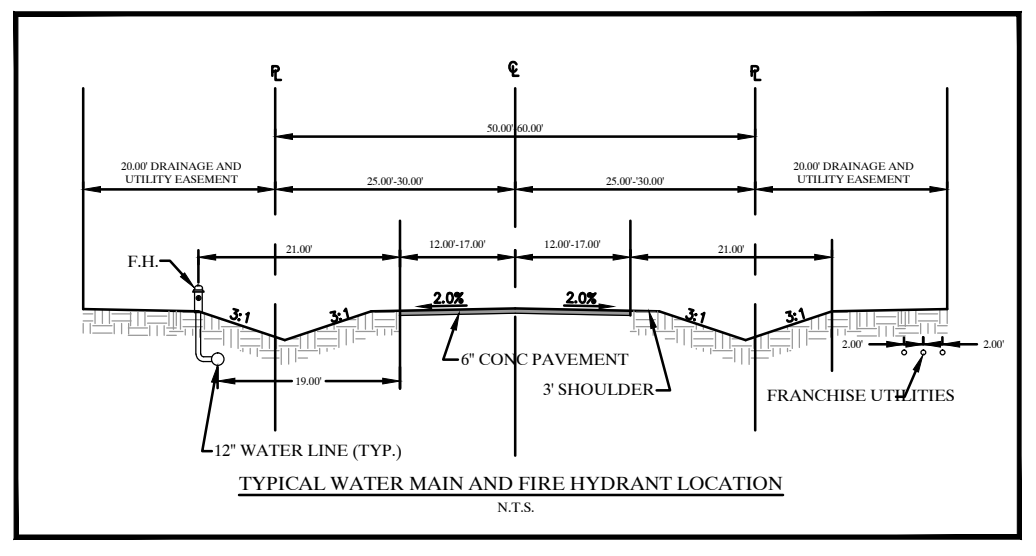
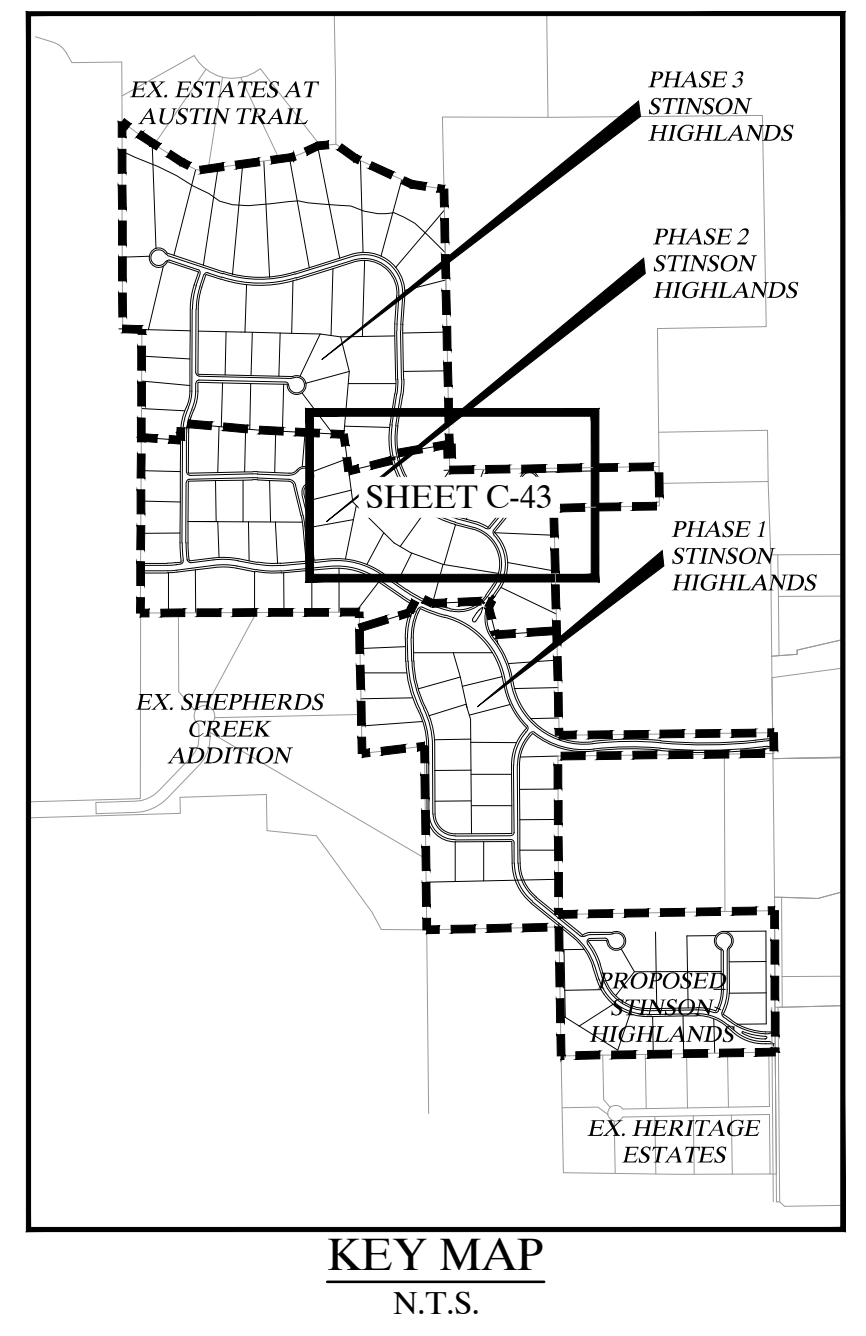
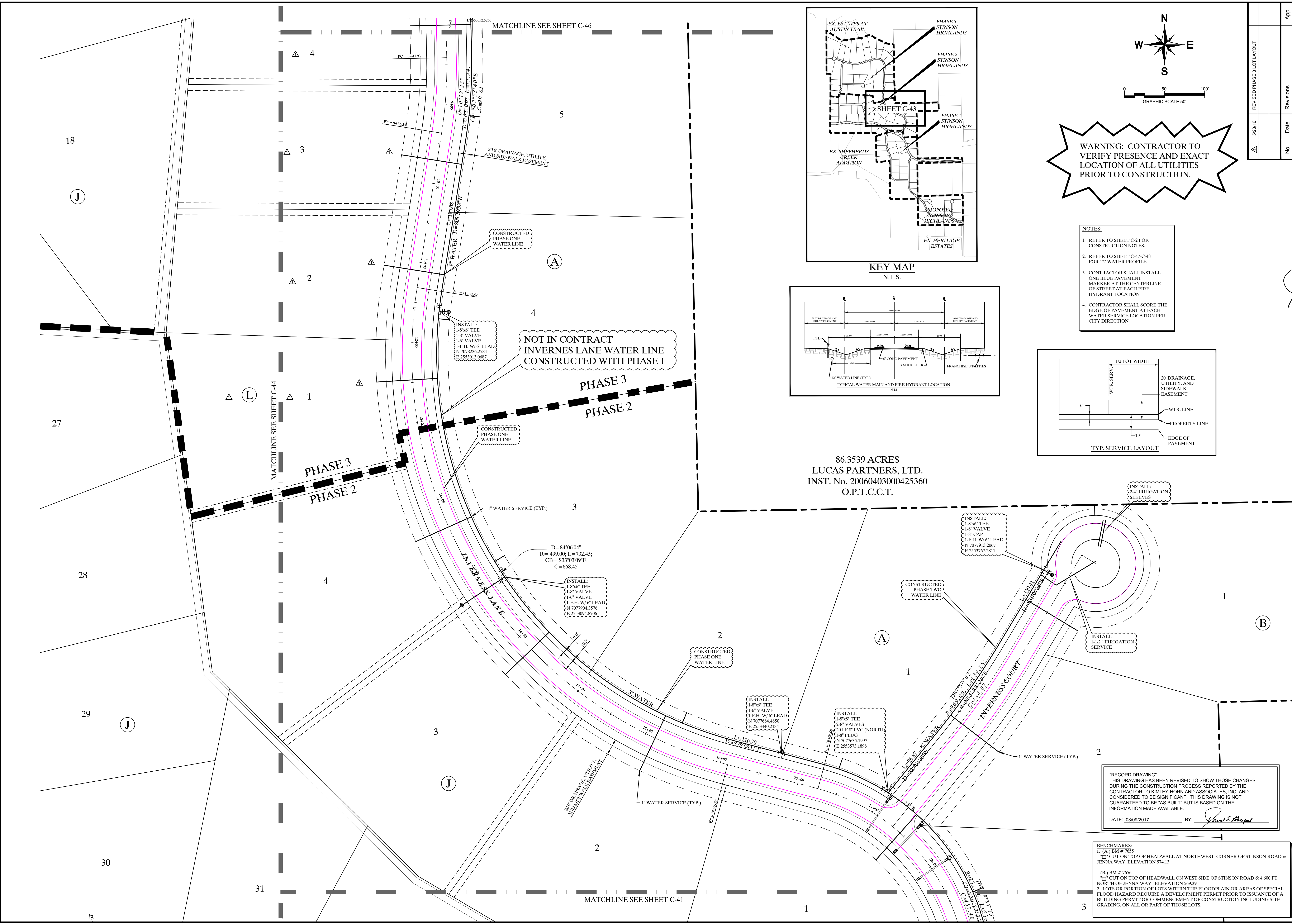
**STORM CULVERT PROFILES
CULVERTS "N" - "T"**

Scale: 1" = 40' H, 1" = 4' V
Designed by: BUS
Drawn by: BUS
Checked by: LRO
Date: JUNE 13, 2014
Project No. 064347001

SHEET
C-37

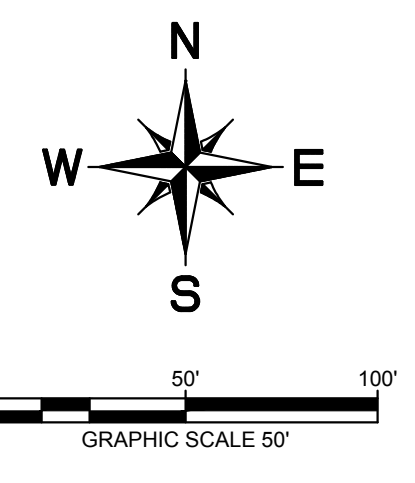
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 PLOTTED BY FORNIX, NATHAN 3/20/17 10:28 AM
 PLOT SCALE: 1" = 40' H, 1" = 4' V
 PLOT DOWNSCALE: 1" = 40' H, 1" = 4' V
 PLOT DATE: 3/20/17 10:28 AM

20170909_DEM.dwg - d:\emp\ecm\021279161483 - 20170909_DEM.dwg
 DESIGNED BY: J. MATHIAS
 DRAWN BY: J. MATHIAS
 CHECKED BY: J. MATHIAS
 DATE: 03/09/2017 10:29 AM
 PLOTTED BY: J. MATHIAS
 DATE: 03/09/2017 10:29 AM
 PLOT SCALE: 1/8"=1'-0"



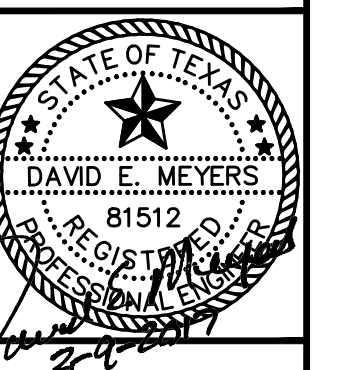
WARNING: CONTRACTOR TO VERIFY PRESENCE AND EXACT LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION.

- NOTES:**
- REFER TO SHEET C-2 FOR CONSTRUCTION NOTES.
 - REFER TO SHEET C-47-C-48 FOR 12" WATER PROFILE.
 - CONTRACTOR SHALL INSTALL ONE BLUE PAVEMENT MARKER AT THE CENTERLINE OF STREET AT EACH FIRE HYDRANT LOCATION.
 - CONTRACTOR SHALL SCORE THE EDGE OF PAVEMENT AT EACH WATER SERVICE LOCATION PER CITY DIRECTION.



REVISED PHASE 3 LOT LAYOUT	No.	Date	Revisions	App.
Δ	5/23/16			

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 12950 KIMLEY-HORN DRIVE, SUITE 100, DALLAS, TEXAS 75244
 PHONE: 972-270-1300 FAX: 972-239-3820
 WWW.KIMLEY-HORN.COM TX F-928



STINSON HIGHLANDS LUCAS, TEXAS

WATER PLAN (6 OF 9)

Scale: 1" = 50'
 Designed by: BUS
 Drawn by: RVG
 Checked by: LRO
 Date: JUNE 13, 2014
 Project No. 064347001

86.3539 ACRES
 LUCAS PARTNERS, LTD.
 INST. No. 20060403000425360
 O.P.T.C.C.T.

"RECORD DRAWING"
 THIS DRAWING HAS BEEN REVISED TO SHOW THOSE CHANGES DURING THE CONSTRUCTION PROCESS REPORTED BY THE CONTRACTOR TO KIMLEY-HORN AND ASSOCIATES, INC. AND CONSIDERED TO BE SIGNIFICANT. THIS DRAWING IS NOT GUARANTEED TO BE "AS BUILT" BUT IS BASED ON THE INFORMATION MADE AVAILABLE.
 DATE: 03/09/2017 BY: *David E. Meyers*

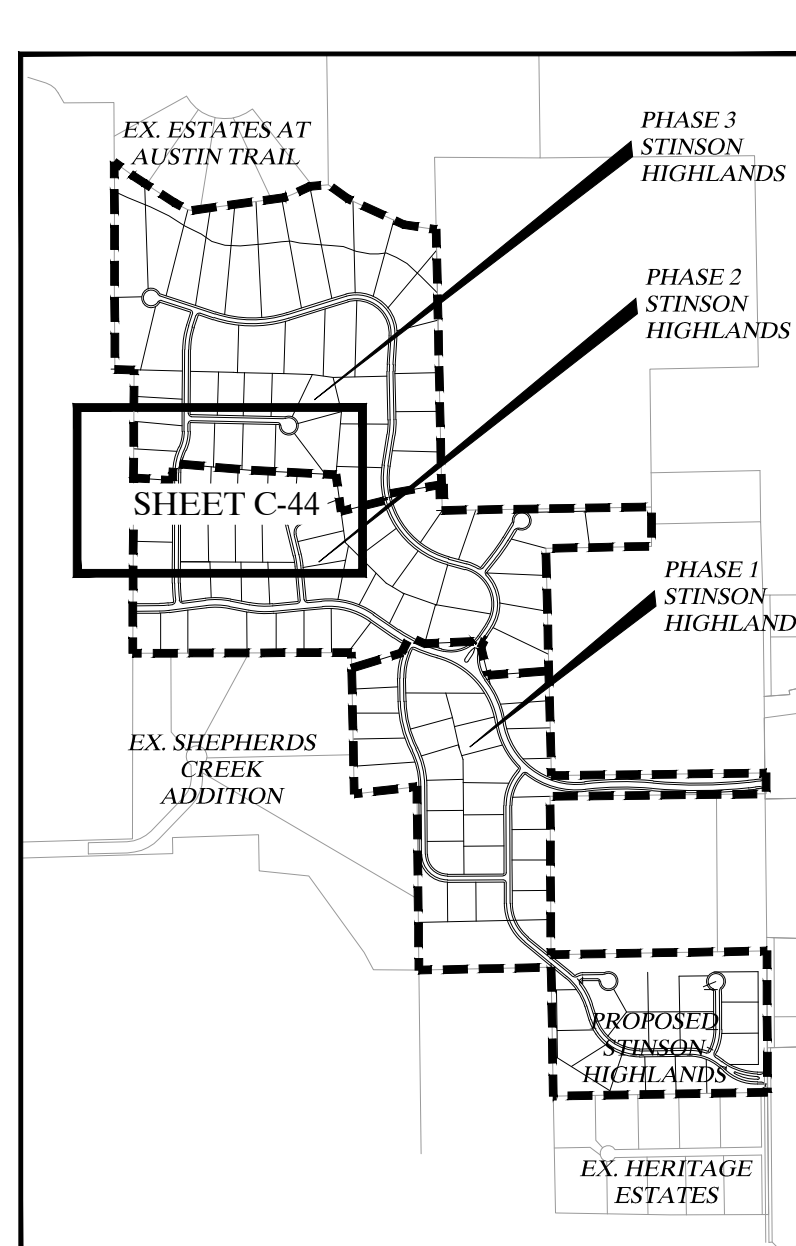
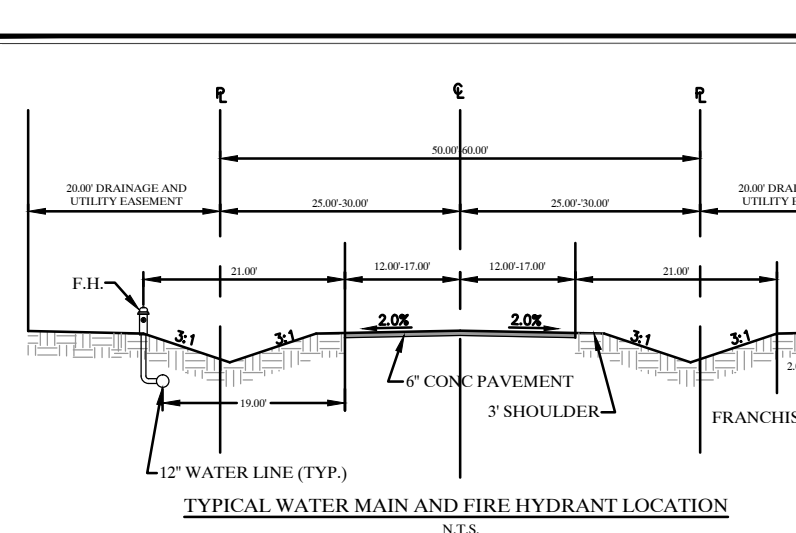
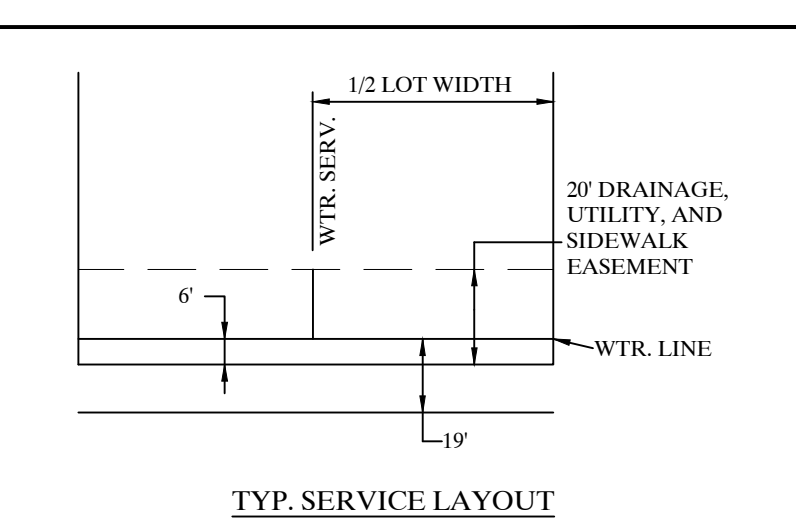
BENCHMARKS:
 1. (A) BM # 7655
 CUT ON TOP OF HEADWALL AT NORTHWEST CORNER OF STINSON ROAD & JENNA WAY ELEVATION 574.13
 2. (B) BM # 7656
 CUT ON TOP OF HEADWALL ON WEST SIDE OF STINSON ROAD & 4,600 FT NORTH OF JENNA WAY ELEVATION 569.39
 3. LOTS OR PORTION OF LOTS WITHIN THE FLOODPLAIN OR AREAS OF SPECIAL FLOOD HAZARD REQUIRE A DEVELOPMENT PERMIT PRIOR TO ISSUANCE OF A BUILDING PERMIT OR COMMENCEMENT OF CONSTRUCTION INCLUDING SITE GRADING, ON ALL OR PART OF THOSE LOTS.

SHEET C-43

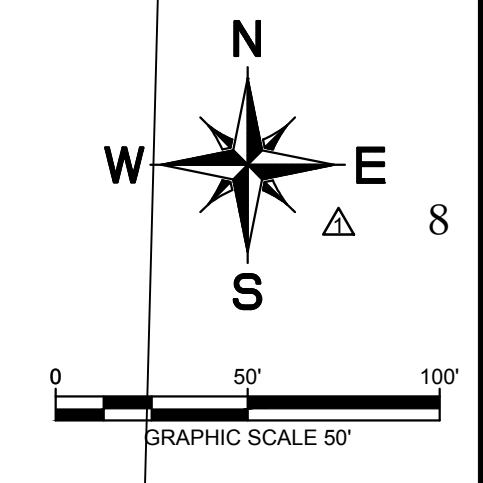
WARNING: CONTRACTOR TO VERIFY PRESENCE AND EXACT LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION.

60.5 ACRES
JOHN L. MORRISON
VOL. 761, PG. 57
D.R.C.C.T.

- NOTES:**
- 1. REFER TO SHEET C-2 FOR CONSTRUCTION NOTES.
 - 2. REFER TO SHEET C-47, C-48 FOR 12" WATER PROFILE.
 - 3. CONTRACTOR SHALL INSTALL ONE BLUE PAVEMENT MARKER AT THE CENTERLINE OF STREET AT EACH FIRE HYDRANT LOCATION.
 - 4. CONTRACTOR SHALL SCORE THE EDGE OF PAVEMENT AT EACH WATER SERVICE LOCATION PER CITY DIRECTION.



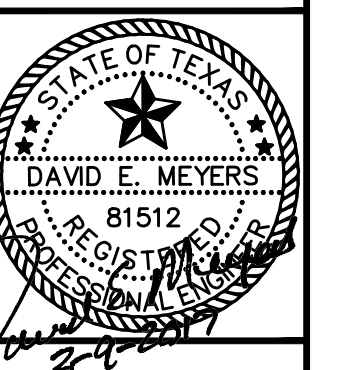
MATCHLINE SEE SHEET C45



No.	Date	Revisions	App.
5/23/16		REVISED PHASE 3 LOT LAYOUT	
8/30/16		REVISED PHASE 3 WATER LINE	

Kimley-Horn and Associates, Inc.

© 2015 KIMLEY-HORN AND ASSOCIATES, INC. 12955 WESTVIEW BLVD., SUITE 100, HOUSTON, TX 77040-1300. PHONE: 972-770-1300. FAX: 972-770-3820. WWW.KIMLEY-HORN.COM TX F-928

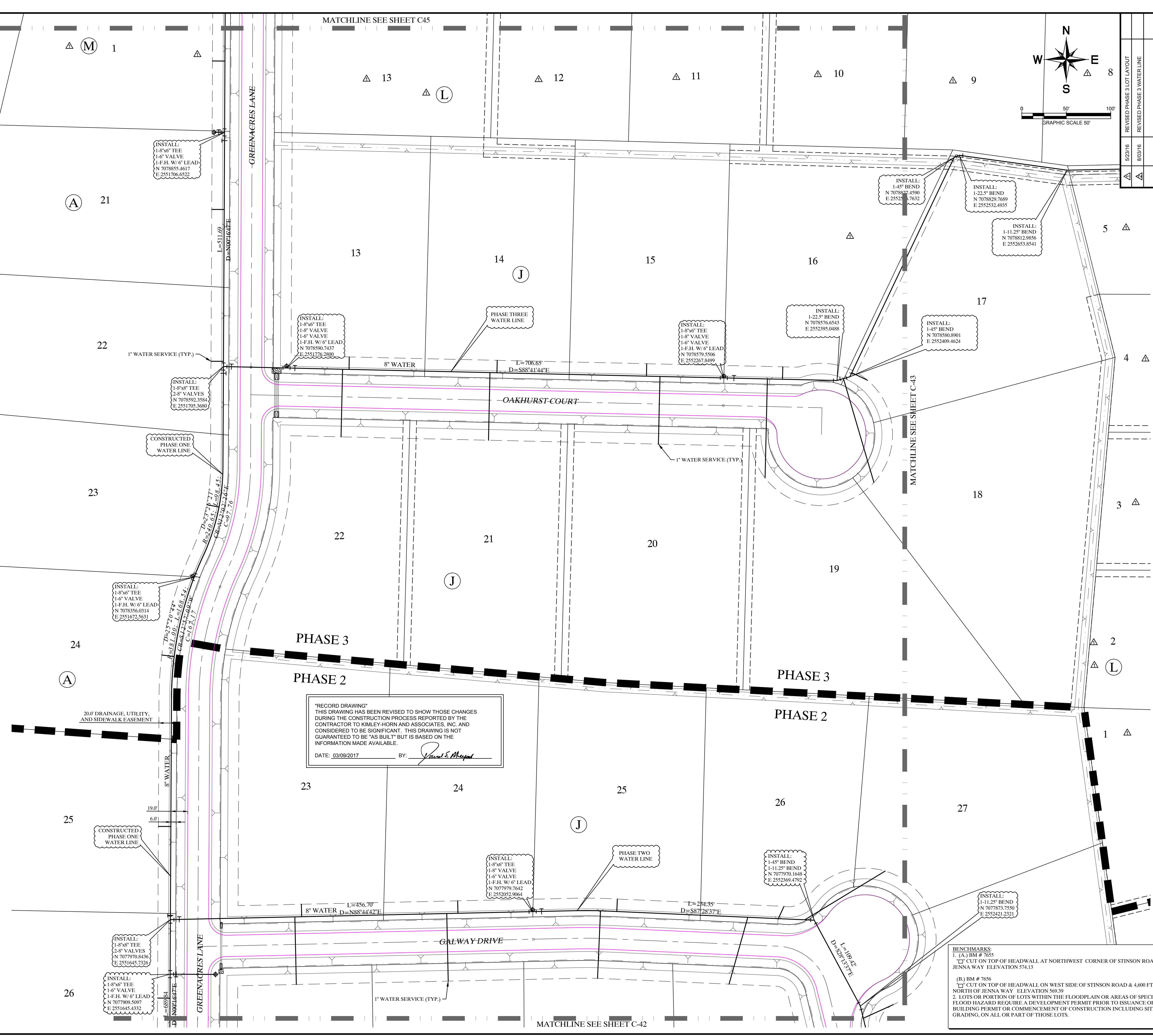


STINSON HIGHLANDS LUCAS, TEXAS

WATER PLAN (7 OF 9)

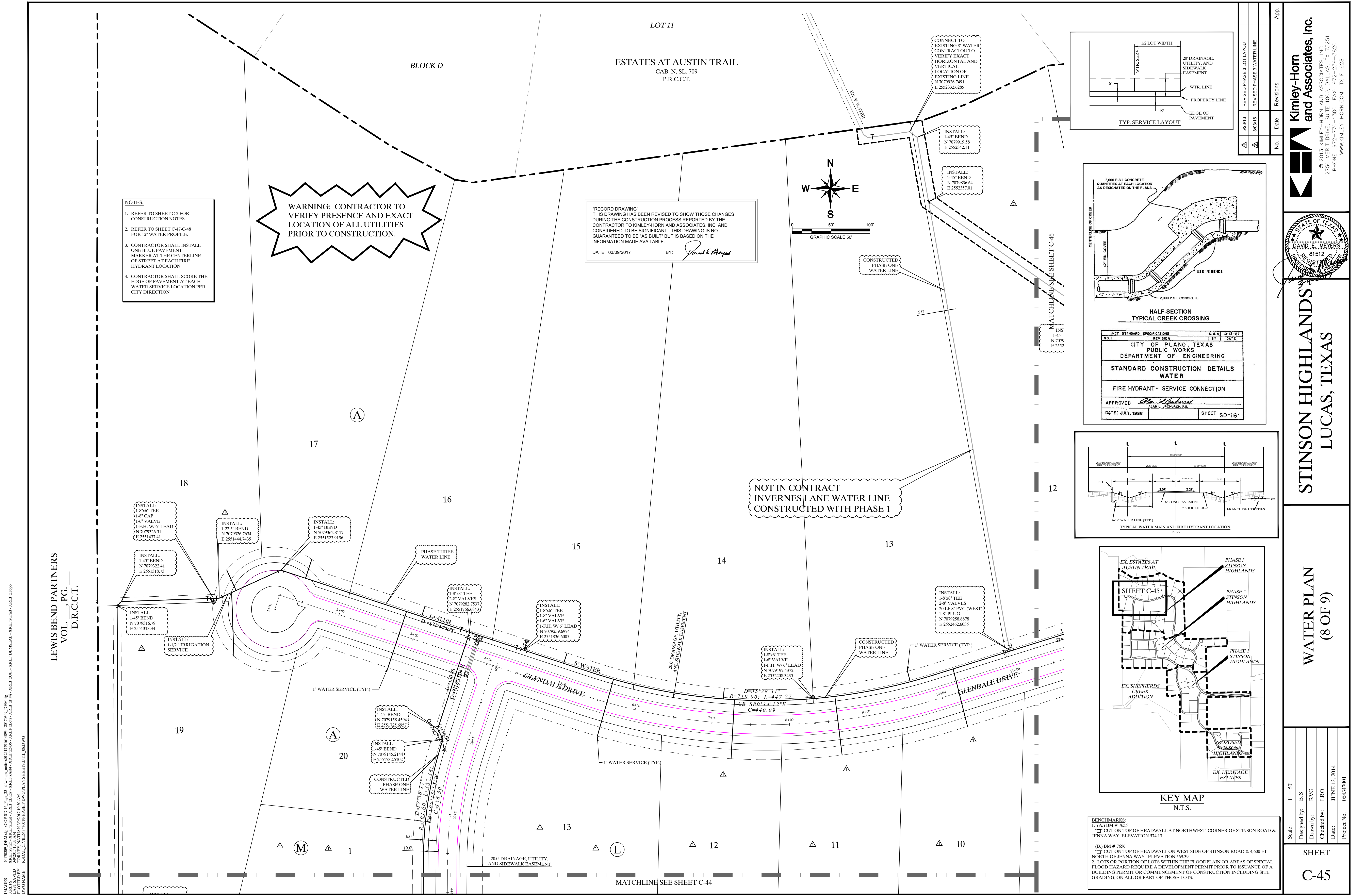
Designed by:	BIS
Drawn by:	RVG
Checked by:	LRO
Date:	JUNE 13, 2014
Project No.:	064547001

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"RECORD DRAWING"
THIS DRAWING HAS BEEN REVISED TO SHOW THOSE CHANGES DURING THE CONSTRUCTION PROCESS REPORTED BY THE CONTRACTOR TO KIMLEY-HORN AND ASSOCIATES, INC. AND CONSIDERED TO BE SIGNIFICANT. THIS DRAWING IS NOT GUARANTEED TO BE "AS BUILT" BUT IS BASED ON THE INFORMATION MADE AVAILABLE.
DATE: 03/09/2017 BY: David E. Meyers

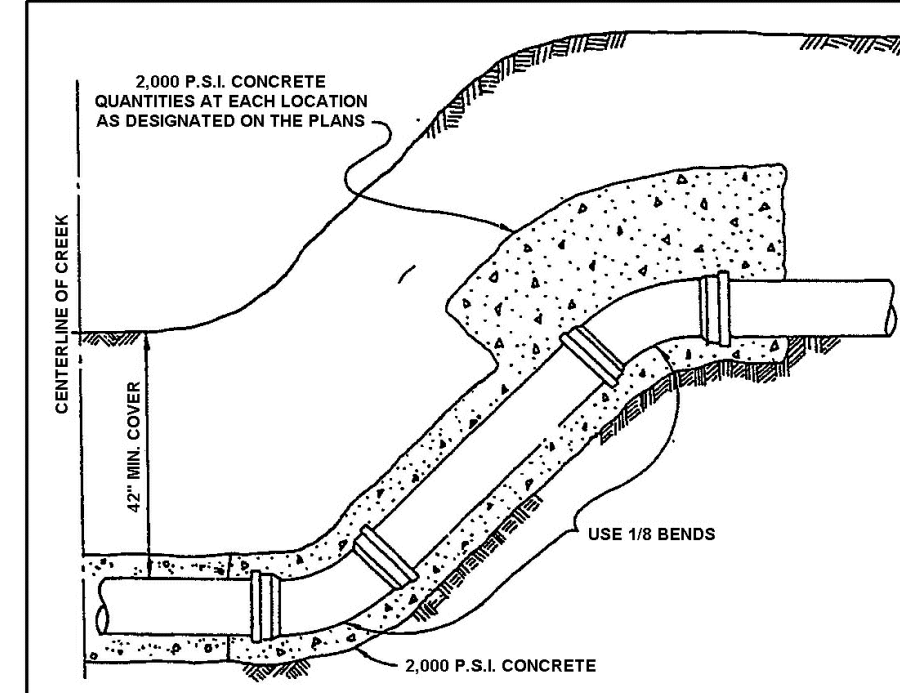
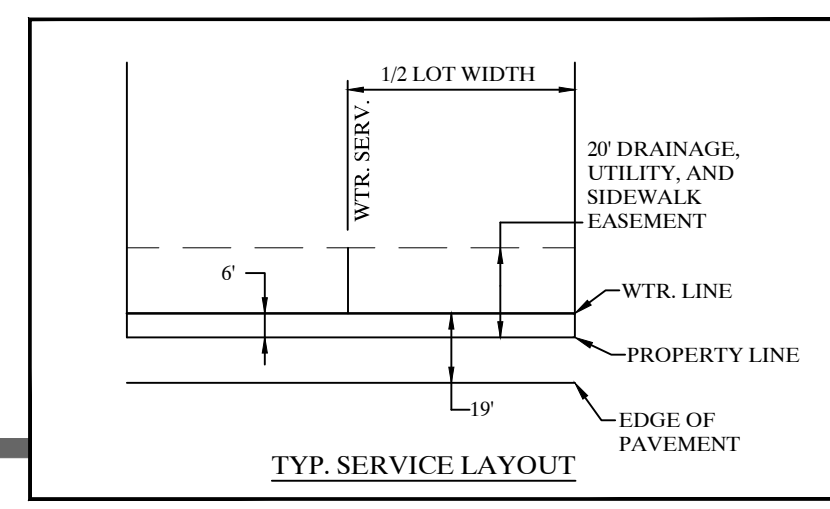
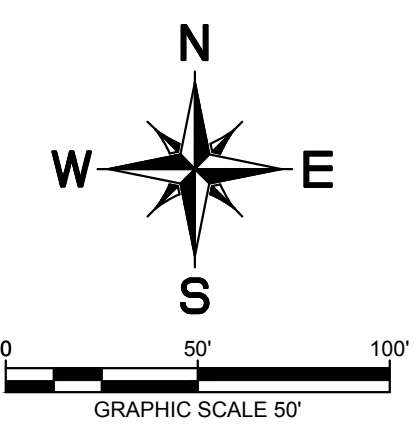
BENCHMARKS:
 1. (A) BM # 7655
 □ CUT ON TOP OF HEADWALL AT NORTHWEST CORNER OF STINSON ROAD & JENNA WAY ELEVATION 574.13
 (B) BM # 7656
 □ CUT ON TOP OF HEADWALL ON WEST SIDE OF STINSON ROAD & 4,600 FT NORTH OF JENNA WAY ELEVATION 569.39
 2. LOTS OR PORTION OF LOTS WITHIN THE FLOODPLAIN OR AREAS OF SPECIAL FLOOD HAZARD REQUIRE A DEVELOPMENT PERMIT PRIOR TO ISSUANCE OF A BUILDING PERMIT OR COMMENCEMENT OF CONSTRUCTION INCLUDING SITE GRADING, ON ALL OR PART OF THOSE LOTS.



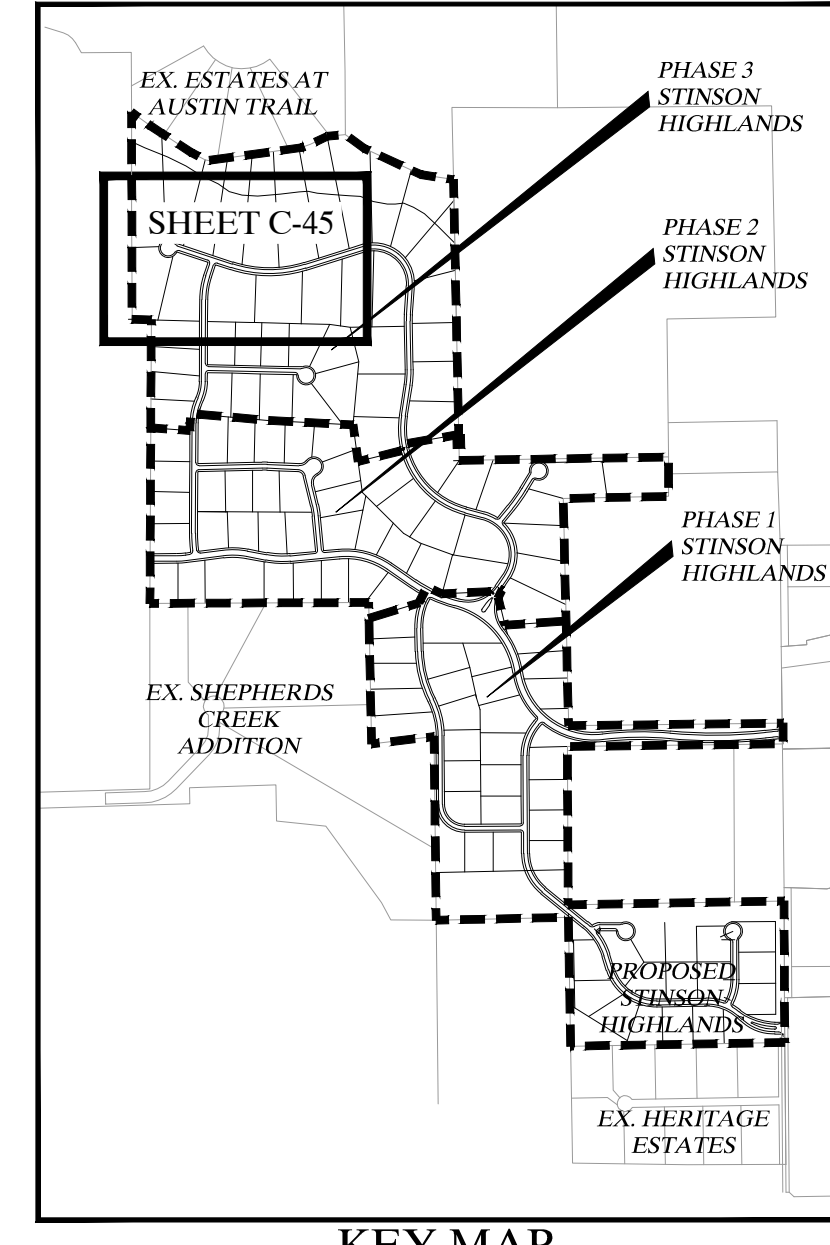
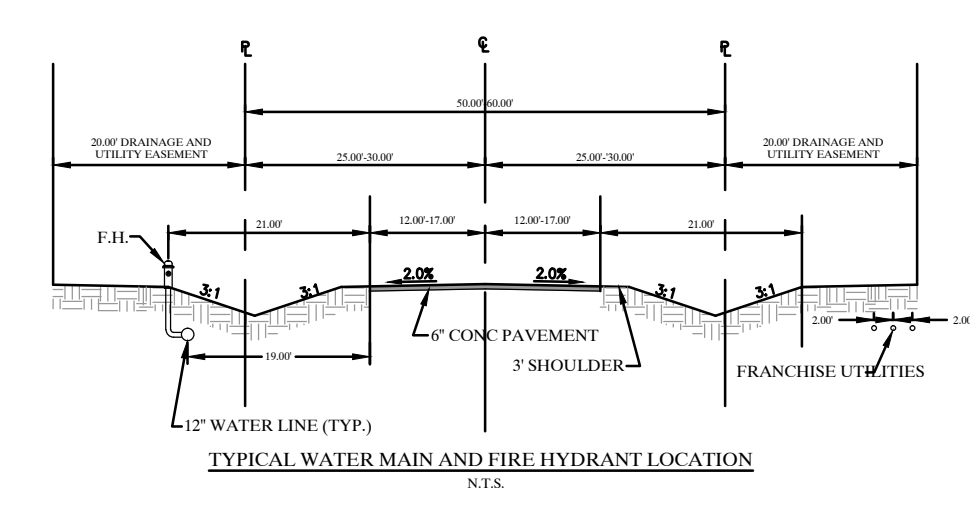
- NOTES:**
- REFER TO SHEET C-2 FOR CONSTRUCTION NOTES.
 - REFER TO SHEET C-47-C-48 FOR 12\"/>

WARNING: CONTRACTOR TO VERIFY PRESENCE AND EXACT LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION.

"RECORD DRAWING"
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 DATE: 03/09/2017 BY: *David E. Meyer*

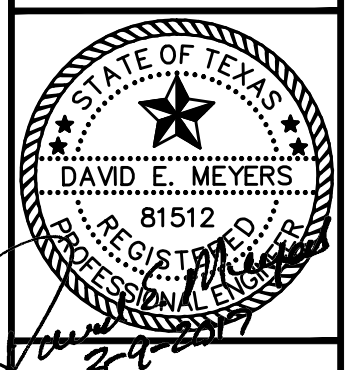


TYPICAL STANDARD SPECIFICATIONS		S.A.S. 10-13-87	
NO.	REVISION	BY	DATE
CITY OF PLANO, TEXAS PUBLIC WORKS DEPARTMENT OF ENGINEERING			
STANDARD CONSTRUCTION DETAILS WATER			
FIRE HYDRANT - SERVICE CONNECTION			
APPROVED: <i>Alan L. Upchurch, P.E.</i>			
DATE: JULY, 1996		SHEET SD-16	



- BENCHMARKS:**
- (A) BM # 7655
 CUT ON TOP OF HEADWALL AT NORTHWEST CORNER OF STINSON ROAD & JENNA WAY ELEVATION 574.13
 - (B) BM # 7656
 CUT ON TOP OF HEADWALL ON WEST SIDE OF STINSON ROAD & 4,600 FT NORTH OF JENNA WAY ELEVATION 569.29
2. LOTS OR PORTION OF LOTS WITHIN THE FLOODPLAIN OR AREAS OF SPECIAL FLOOD HAZARD REQUIRE A DEVELOPMENT PERMIT PRIOR TO ISSUANCE OF A BUILDING PERMIT OR COMMENCEMENT OF CONSTRUCTION INCLUDING SITE GRADING, ON ALL OR PART OF THOSE LOTS.

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 12955 FORT MEADE, DALLAS, TEXAS 75244
 PHONE: 972-270-1300 FAX: 972-239-3820
 WWW.KIMLEY-HORN.COM TX F-928



**STINSON HIGHLANDS
LUCAS, TEXAS**

**WATER PLAN
(8 OF 9)**

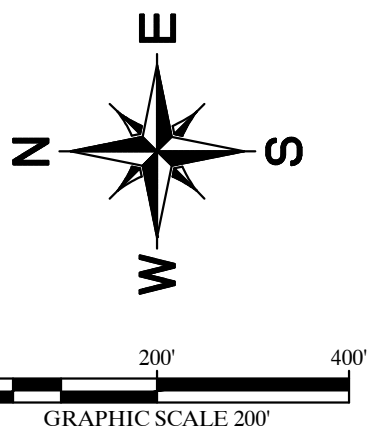
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Drawn by: RVG	Approved by: <i>Alan L. Upchurch, P.E.</i>			
SHEET C-45				

IMAGES: 20130924_PEM.dwg - c:\p\sd\16\fig_21.dwg - xref.dwg - 20170916.dwg - 20170916.dwg - 20170916.dwg - 20170916.dwg - 20170916.dwg
 EAST SAVID 3/20/17 10:00 AM
 PLOTTED BY FORNEY, NATHAN 3/20/17 10:00 AM
 PLOT NO: 16

LEWIS BEND PARTNERS
 VOL. PG. D.R.C.C.T.

MATCHLINE SEE SHEET C-44

MATCHLINE SEE SHEET C-46



WARNING: CONTRACTOR TO VERIFY PRESENCE AND EXACT LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION.

CITY OF LUCAS-GENERAL NOTES

1. EROSION CONTROL DEVICES AS SHOWN ON THE EROSION CONTROL PLAN FOR THE PROJECT SHALL BE INSTALLED PRIOR TO THE START OF LAND DISTURBING ACTIVITIES ON THE PROJECT.
2. ALL EROSION CONTROL DEVICES ARE TO BE INSTALLED IN ACCORDANCE WITH THE APPROVED PLANS AND SPECIFICATIONS FOR THE PROJECT. CHANGES ARE TO BE APPROVED BEFORE CONSTRUCTION BY THE DESIGN ENGINEER AND THE CITY OF LUCAS ENGINEERING DIVISION.
3. IF THE EROSION CONTROL PLAN AS APPROVED CANNOT CONTROL EROSION AND OFF-SITE SEDIMENTATION FROM THE PROJECT, THE EROSION CONTROL PLAN WILL BE REQUIRED TO BE REVISED AND/OR ADDITIONAL EROSION CONTROL DEVICES WILL BE REQUIRED ON SITE.
4. IF OFF-SITE SOIL BORROW OR SPOIL SITES ARE USED IN CONJUNCTION WITH THIS PROJECT, THIS INFORMATION SHALL BE DISCLOSED AND SHOWN ON THE EROSION CONTROL PLAN. OFF-SITE BORROW AND SPOIL AREAS ARE CONSIDERED A PART OF THE PROJECT SITE AND THEREFORE SHALL COMPLY WITH THE CITY OF LUCAS EROSION CONTROL REQUIREMENTS. THESE AREAS SHALL BE STABILIZED WITH PERMANENT GROUND COVER PRIOR TO FINAL APPROVAL OF THE PROJECT.

LEGEND:

- EXISTING CONTOUR (dashed line)
- PROPOSED CONTOUR (solid line)
- FB FILTER BARRIER-SEE DETAIL SHEET C-50
- CE CONSTRUCTION ENTRANCE-SEE DETAIL SHEET C-50
- SO STONE OVERFLOW STRUCTURE-SEE DETAIL SHEET C-50
- RR RIP-RAP SEE PAVING PLANS FOR EXACT LOCATION

SITE DATA

TOTAL AREA	221.06 AC.
TOTAL AREA DISTURBED	221.06 AC.
PAVED AREA	74,495± S.Y.
PRE-DEVELOPEMENT RUNOFF COEFFICIENT	0.30
POST-DEVELOPEMENT RUNOFF COEFFICIENT	0.43

SITE MAP-GENERAL NOTES

1. CONTRACTOR IS SOLELY RESPONSIBLE FOR SELECTION, IMPLEMENTATION, MAINTENANCE, AND EFFECTIVENESS OF ALL SWPPP CONTROLS - CONTROLS SHOWN ON THIS SITE MAP ARE SUGGESTED CONTROLS ONLY.
2. CONTRACTOR SHALL RECORD INSTALLATION, MAINTENANCE OR MODIFICATION, AND REMOVAL DATES FOR EACH BMP EMPLOYED (WHETHER CALLED OUT ON ORIGINAL SWPPP OR NOT) DIRECTLY ON THE SITE MAP.
3. DRAINAGE PATTERNS ARE SHOWN ON THIS PLAN BY PROPOSED AND EXISTING CONTOURS, FLOW ARROWS, AND SLOPES.
4. TEMPORARY AND PERMANENT STABILIZATION PRACTICES AND BMP'S SHALL BE INSTALLED AT THE EARLIEST POSSIBLE TIME DURING THE CONSTRUCTION SEQUENCE. AS AN EXAMPLE, PERIMETER SILT FENCE SHALL BE INSTALLED BEFORE COMMENCEMENT OF ANY GRADING ACTIVITIES. OTHER BMP'S SHALL BE INSTALLED AS SOON AS PRACTICABLE AND SHALL BE MAINTAINED UNTIL FINAL SITE STABILIZATION IS ATTAINED. CONTRACTOR SHALL ALSO REFERENCE CIVIL AND LANDSCAPE PLANS SINCE PERMANENT STABILIZATION IS PROVIDED BY LANDSCAPING, THE BUILDING(S), AND SITE PAVING.
5. BMP'S HAVE BEEN LOCATED AS INDICATED ON THIS PLAN IN ACCORDANCE WITH GENERALLY ACCEPTED ENGINEERING PRACTICES IN ORDER TO MINIMIZE SEDIMENT TRANSPORT. FOR EXAMPLE: SILT FENCES LOCATED AT TOE OF SLOPE AND INLET PROTECTION FOR INLETS RECEIVING SEDIMENT FROM SITE RUN-OFF.

"RECORD DRAWING"
THIS DRAWING HAS BEEN REVISED TO SHOW THOSE CHANGES DURING THE CONSTRUCTION PROCESS REPORTED BY THE CONTRACTOR TO KIMLEY-HORN AND ASSOCIATES, INC. AND GUARANTEED TO BE "AS BUILT" BUT IS BASED ON THE INFORMATION MADE AVAILABLE.
DATE: 03/09/2017 BY: *David S. Meigs*

EROSION CONTROL SCHEDULE AND PHASING

PHASE	EROSION CONTROL MEASURES
1. ROUGH GRADING	ALL SILT FENCE & STONE OVERFLOW SHALL BE INSTALLED PRIOR TO THE INITIATION OF ROUGH GRADING. CHECK DAMS TO BE INSTALLED IN LOCATIONS NOTED ON PLAN. CONSTRUCTION ENTRANCE TO BE INSTALLED AT THIS TIME.
2. UTILITY INSTALLATION	ALL SILT FENCE AND STONE OVERFLOW SHALL BE INSTALLED PRIOR TO THE INITIATION OF ALL UTILITY CONSTRUCTION.
3. PAVING	ALL PRIOR EROSION CONTROL MEASURES INSTALLED ABOVE TO BE MAINTAINED DURING PAVING AND THROUGHOUT THE REMAINDER OF THE PROJECT.
4. FINE GRADING	REMOVE TEMPORARY ENTRANCE/EXIT. ALL PRIOR EROSION CONTROL MEASURES INSTALLED ABOVE TO BE MAINTAINED DURING FINE GRADING AND THROUGHOUT THE REMAINDER OF THE PROJECT.
5. FINAL	ALL EROSION CONTROL MEASURES TO BE REMOVED AT THE CONCLUSION OF THE PROJECT AS DIRECTED BY THE CITY OF LUCAS.

STOP!
CALL BEFORE YOU DIG
DIG TESS
1-800-DIG-TESS
(at least 72 hours prior to digging)

20170909_DEM.dwg - 20170909_DEM.dwg - d:\p\proj\20170909\20170909_DEM.dwg - XREF - d:\p\proj\20170909\20170909_DEM.dwg - XREF - DEM.dwg
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 PLOTTED BY: J. NATHAN
 PLOT DATE: 20170909 10:01:01 AM
 PLOT SCALE: 1"=200'
 PLOT SHEET: 1 OF 1
 PLOT TITLE: STINSON HIGHLANDS PHASE 1, 2, 3 EROSION CONTROL PLAN

STINSON HIGHLANDS LUCAS, TEXAS

EROSION CONTROL PLAN

SHEET C-57

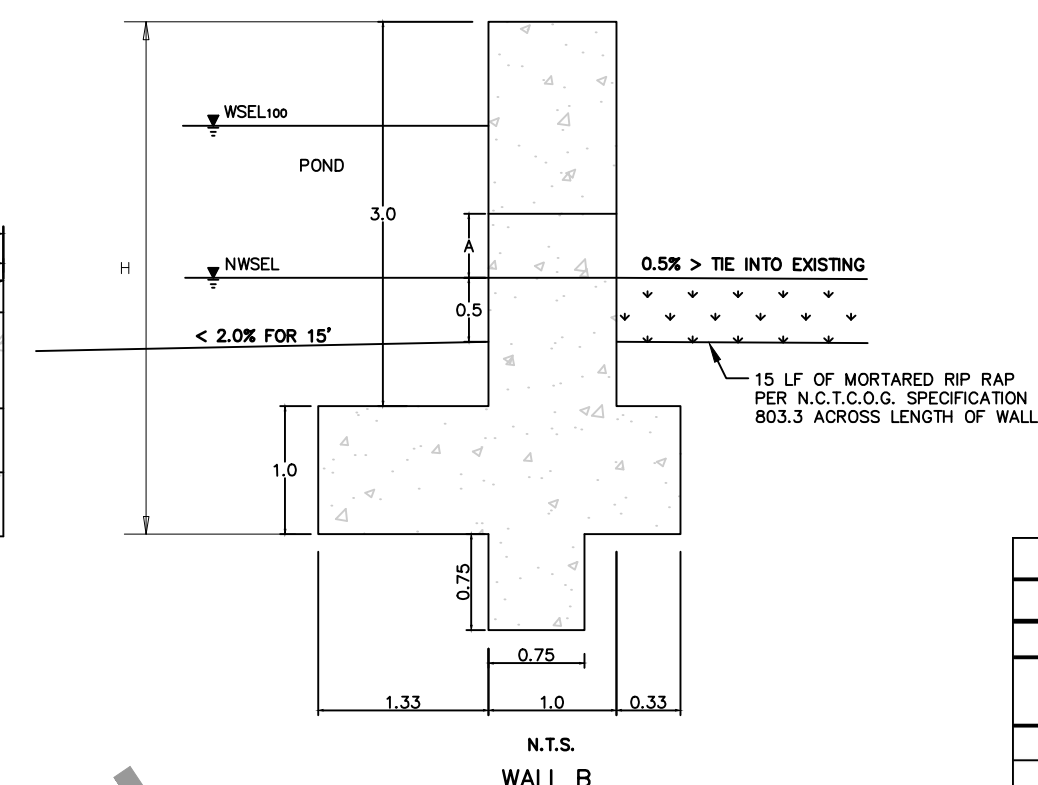
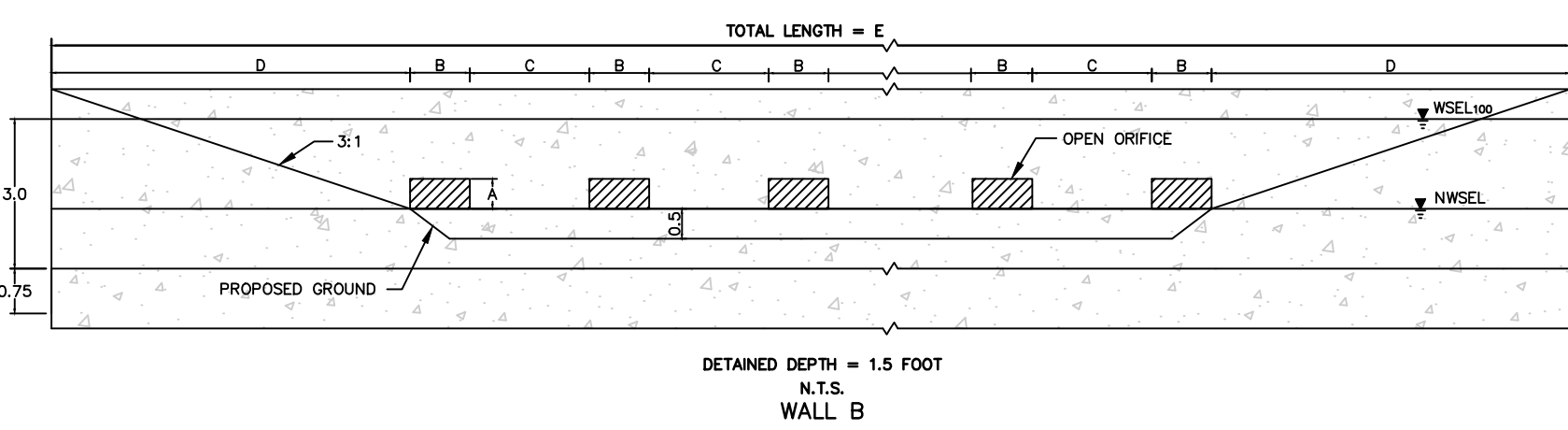
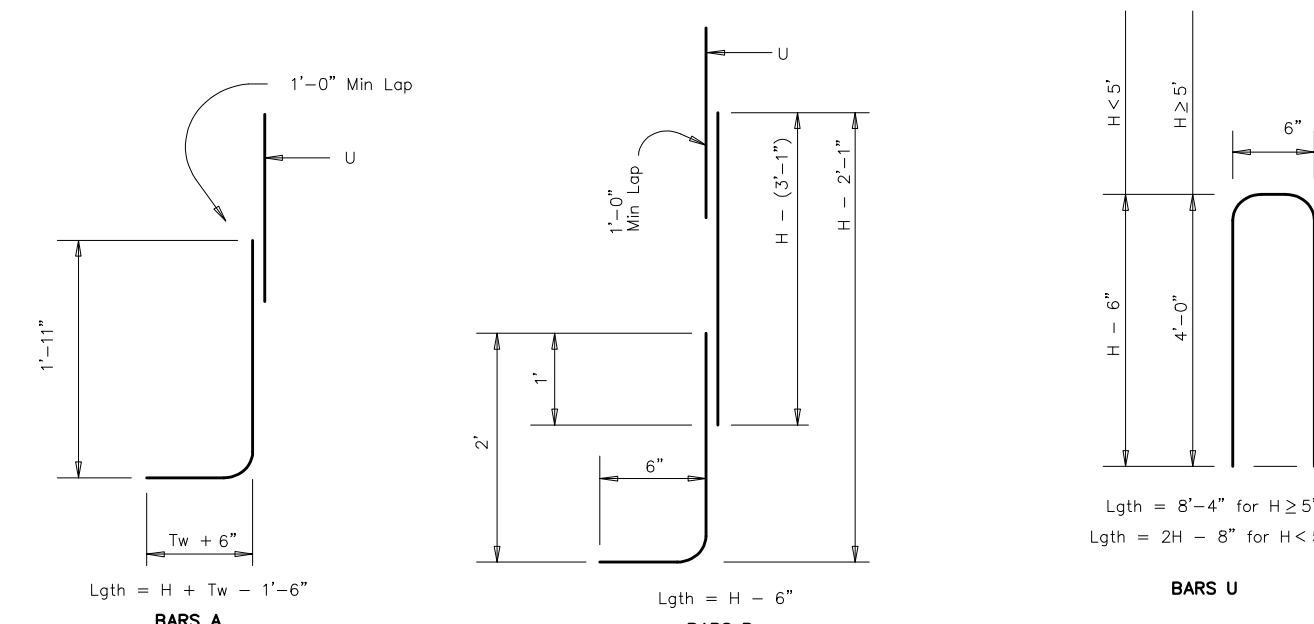
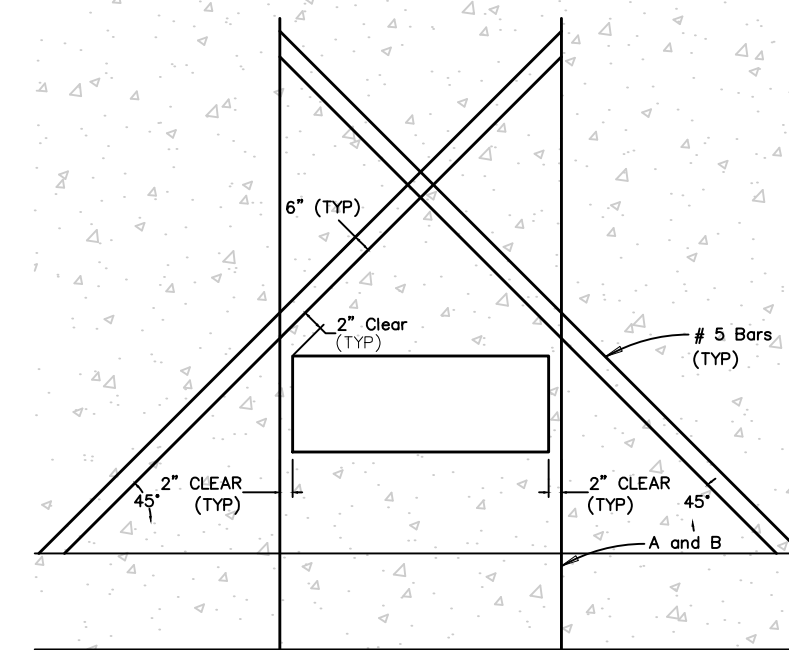
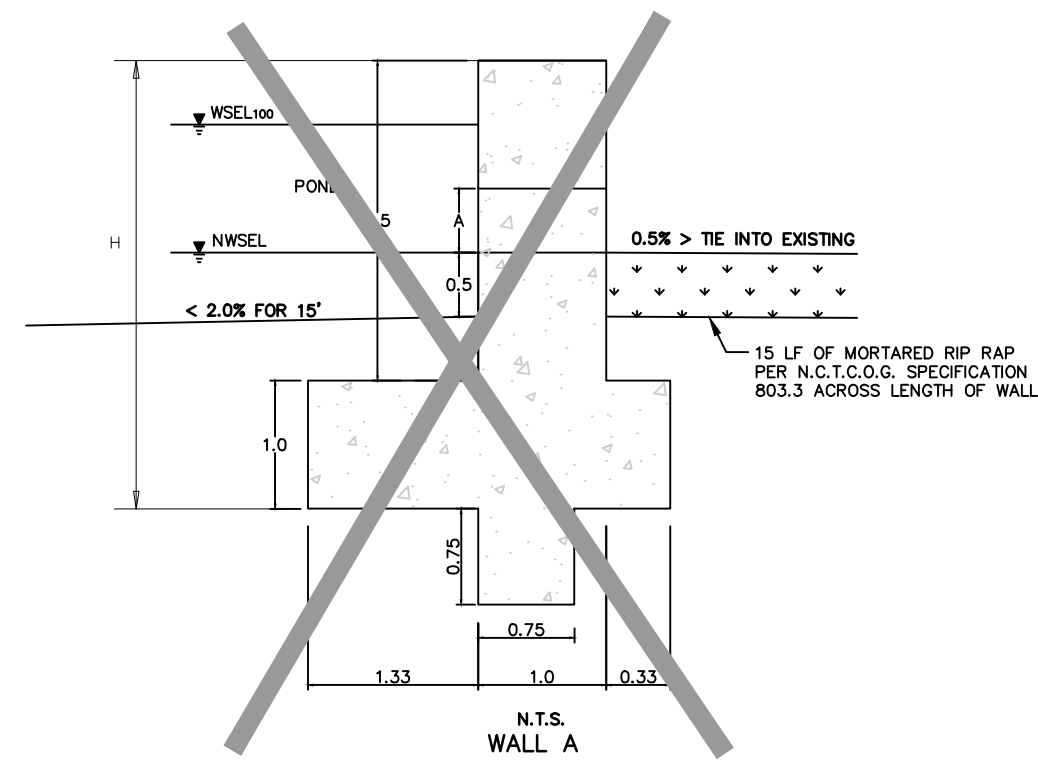
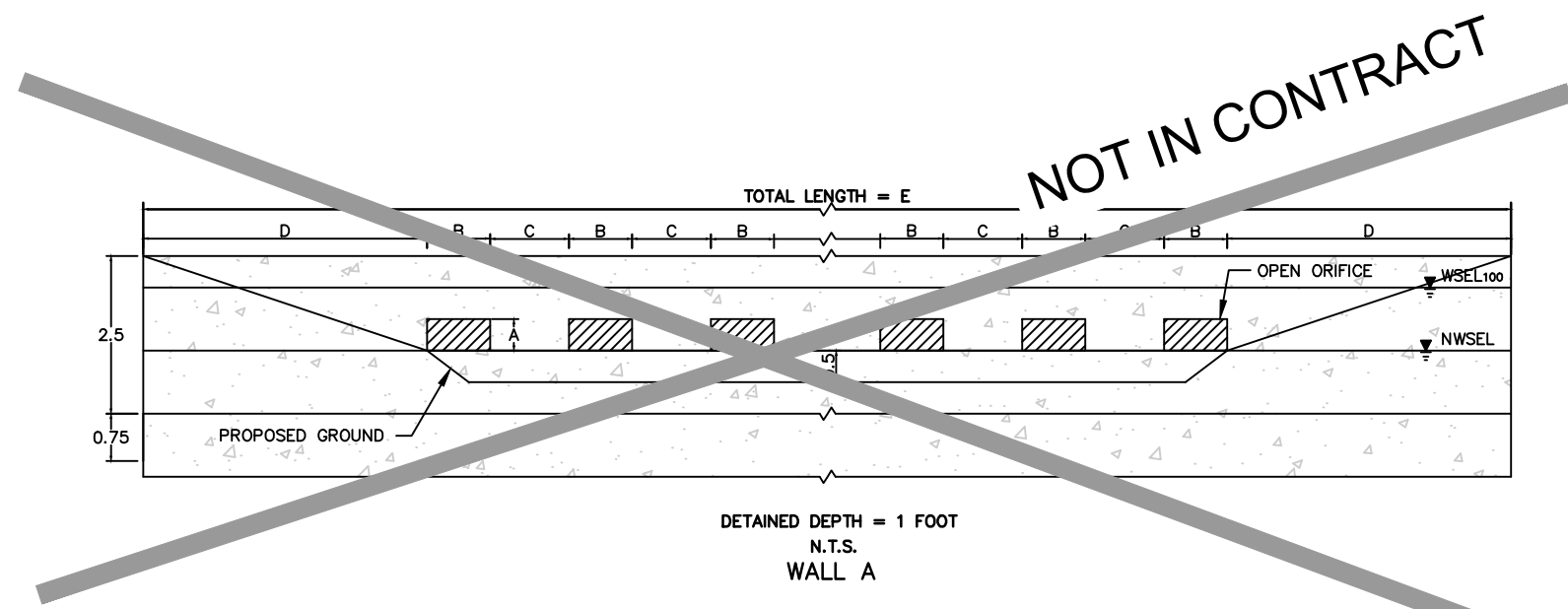
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Designed by: BUS
 Drawn by: RVG
 Checked by: LRO
 Date: JUNE 13, 2014
 Project No. 064347001

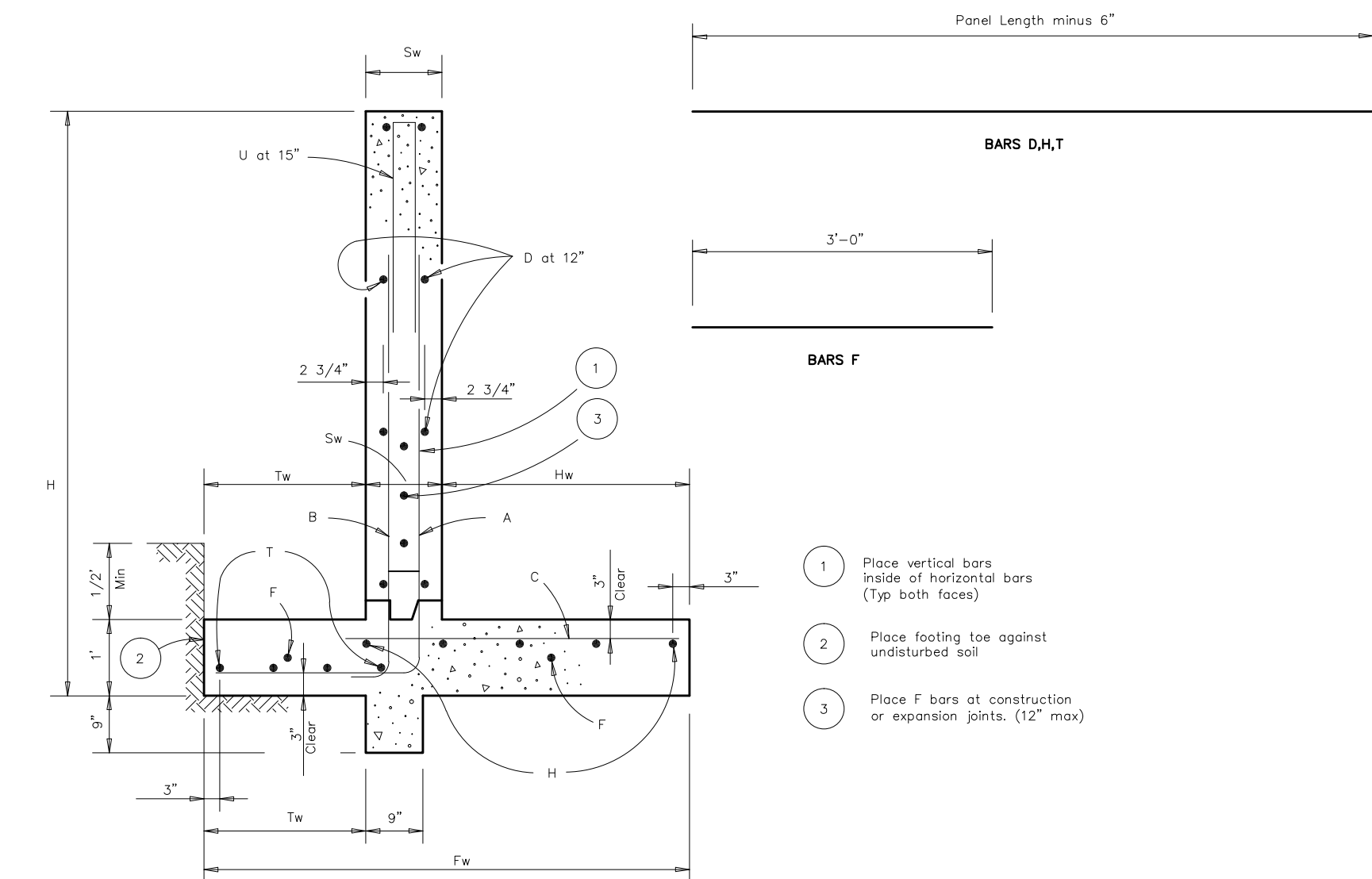
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 WWW.KIMLEY-HORN.COM TX F-928

STATE OF TEXAS
 DAVID E. MEYERS
 81512
 LICENSED PROFESSIONAL ENGINEER

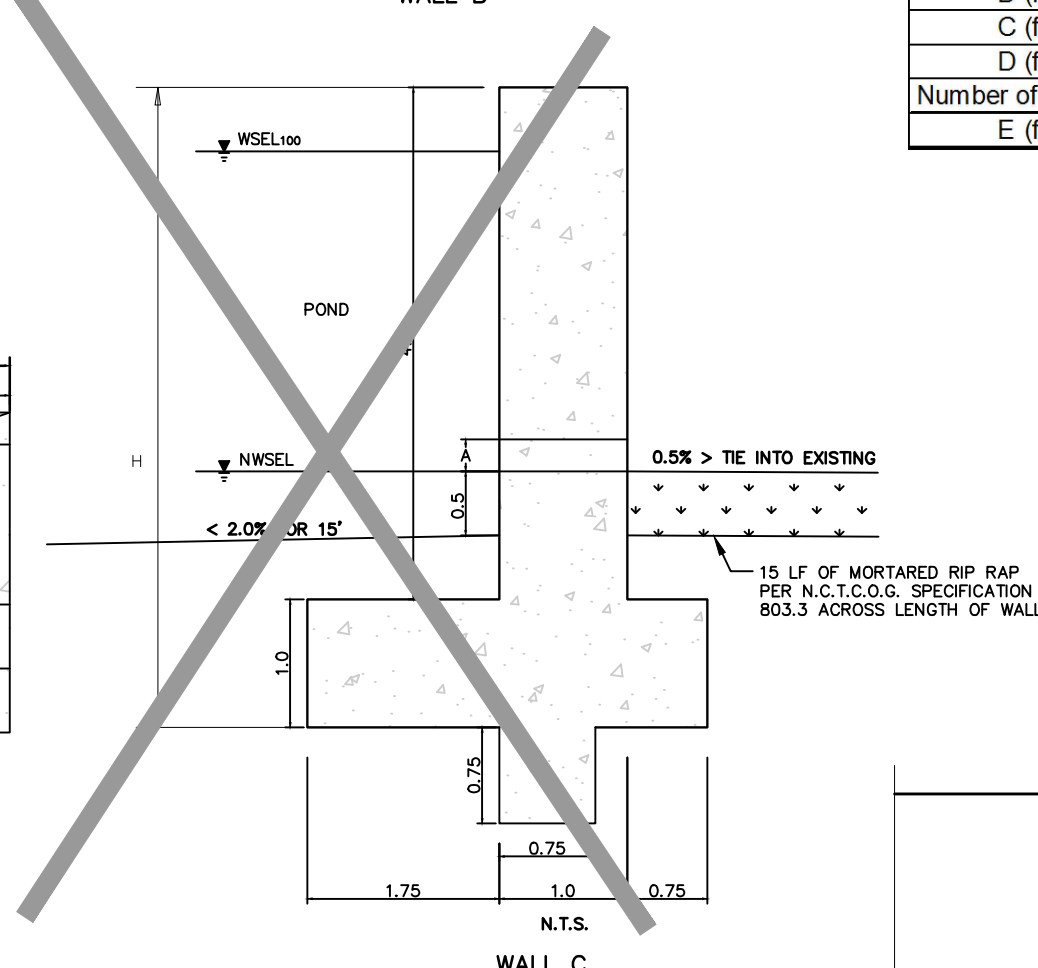
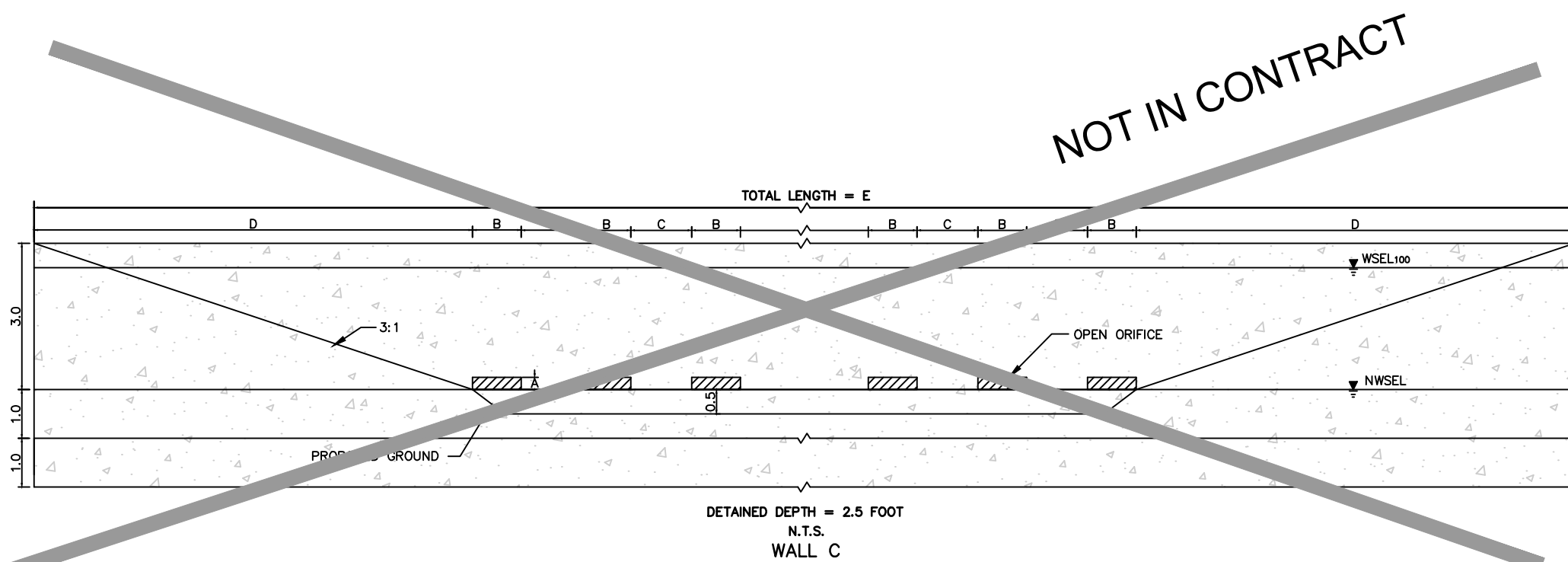
No.	Date	Revisions	App.
1	5/23/16	REVISED PHASE 3 LOT LAYOUT	



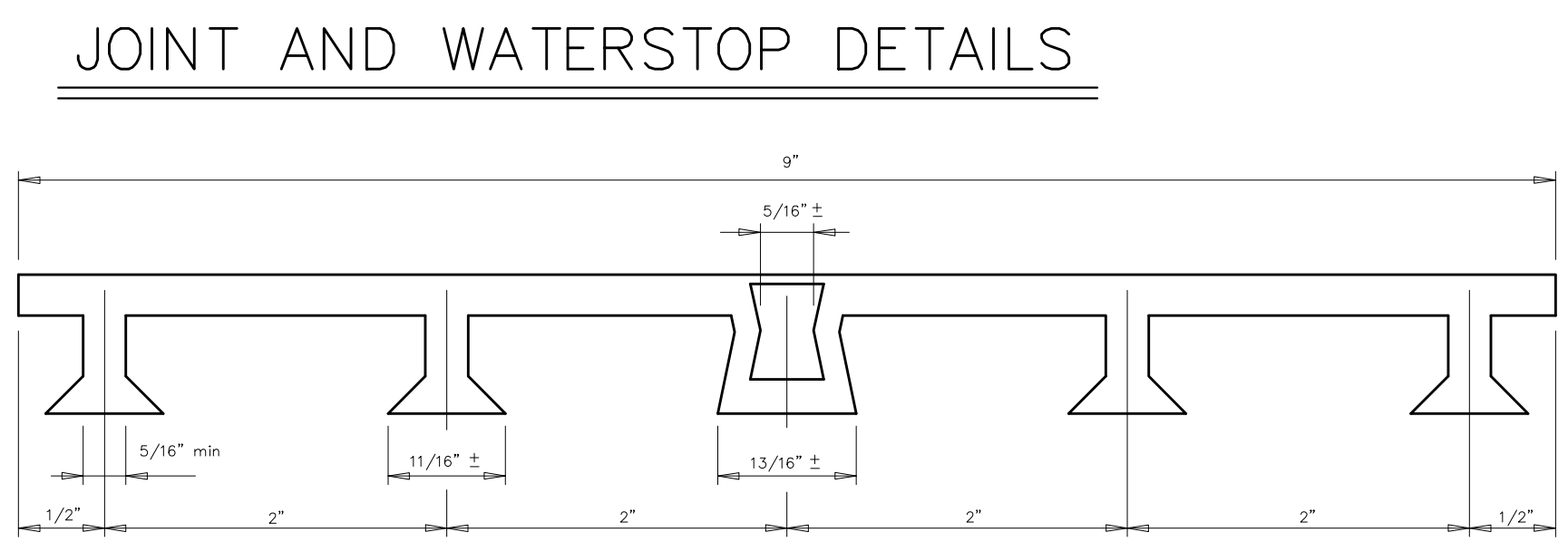
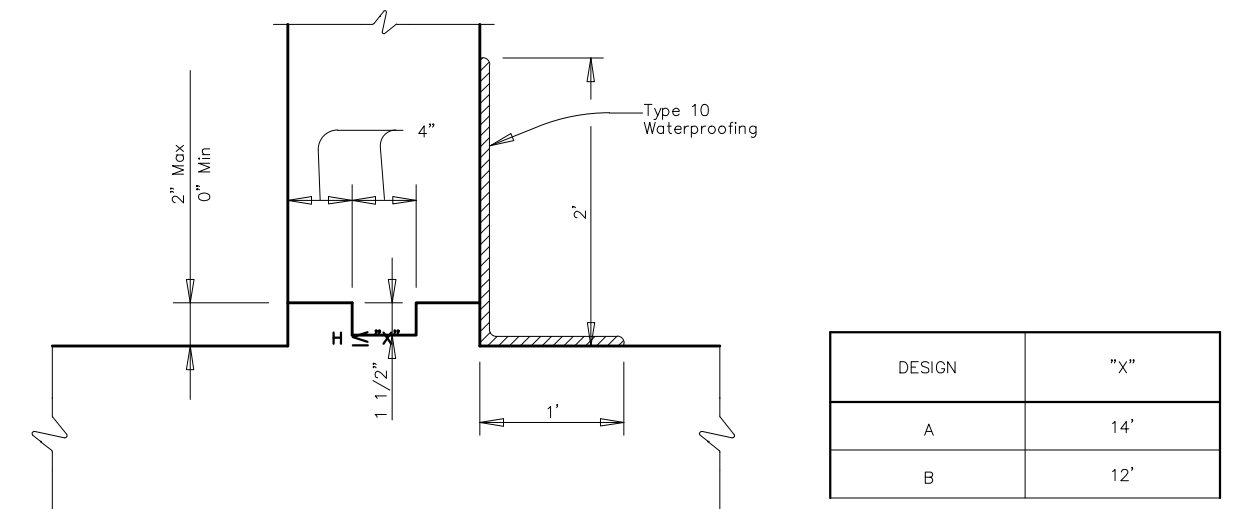
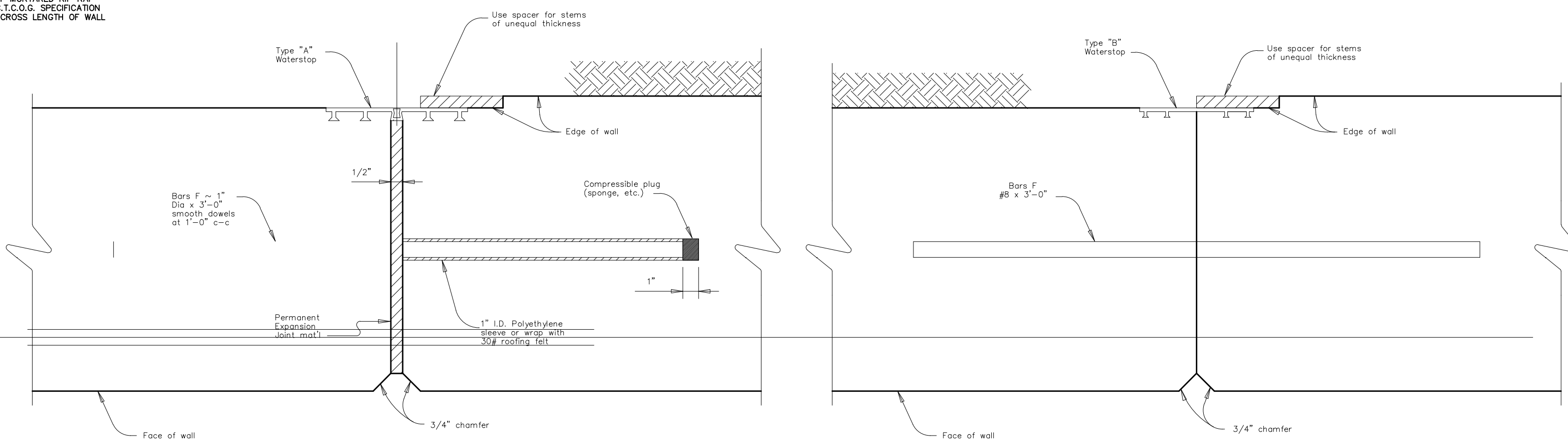
Note:
 1) Field cut reinforcing at opening. Provide 2" clearance from edge of opening to field cut rebar.
 2) Extend cross bars from top of footer to opposite 2" clearance line.



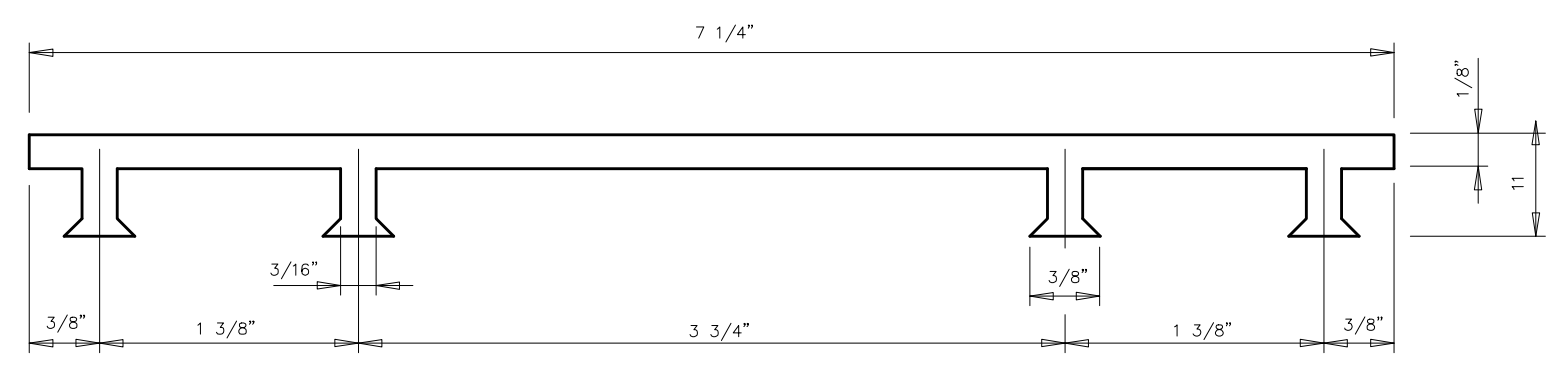
	Pond 1	Pond 3	Pond 2	Pond 4	Pond 5
Wall Design					
Wall	B	A	B	A	B
A (ft)	0.50	0.50	0.25	0.50	0.50
B (ft)	1.00	1.00	1.00	1.00	1.00
C (ft)	1.75	1.25	1.25	1.25	1.75
D (ft)	6.00	6.00	6.00	6.00	6.00
Number of Orifices	41	32	16	24	25
E (ft)	123.00	79.75	52.75	61.75	73.50



Wall	Wall Dimensions			Reinforcing Steel for 1-32" Panel																		
	H	F _w	T _w	A (26 #5 @ 8" c-c)		B (26 #5 @ 8" c-c)		C		D (#5 @ 12" c-c)		F (@ 12" c-c)		H (#5 @ 12" c-c)		T (#5 @ 12" c-c)		U (26 #5 @ 15" c-c)				
	Length	Wt		Length	Wt	Length	Wt	No	Span	Length	Wt	No	Wt	No	Wt	No	Wt	No	Wt			
A	4	2'-8"	1'-4"	3'-10"	104	3'-6"	95	26	#4	15'	1'-10"	32	8	263	6	48	2	66	2	66	7'-4"	199
B	2	2'-8"	1'-4"	3'-10"	104	3'-6"	95	26	#4	15'	1'-10"	32	8	263	6	48	2	66	2	66	7'-4"	199



PVC WATERSTOP TYPE "A"



PVC WATERSTOP TYPE "B"

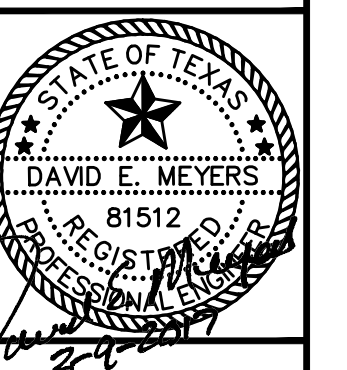
Notes:
 1) Walls shall be poured in 32' Panels with construction joint placed between each panel.
 2) Expansion Joints shall be placed every 96'.

"RECORD DRAWING"
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 DATE: 03/09/2017 BY: *David E. Meyers*

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 PLOTTED BY FORNBY, NATHAN 3/9/2017 10:41 AM
 PLOT DEVICE: HP DesignJet 5000PS Color e-Plotter
 PLOT SCALE: 1.0000

REVISED WALL DETAIL	No.	Date	Revisions	App.
8/11/16				

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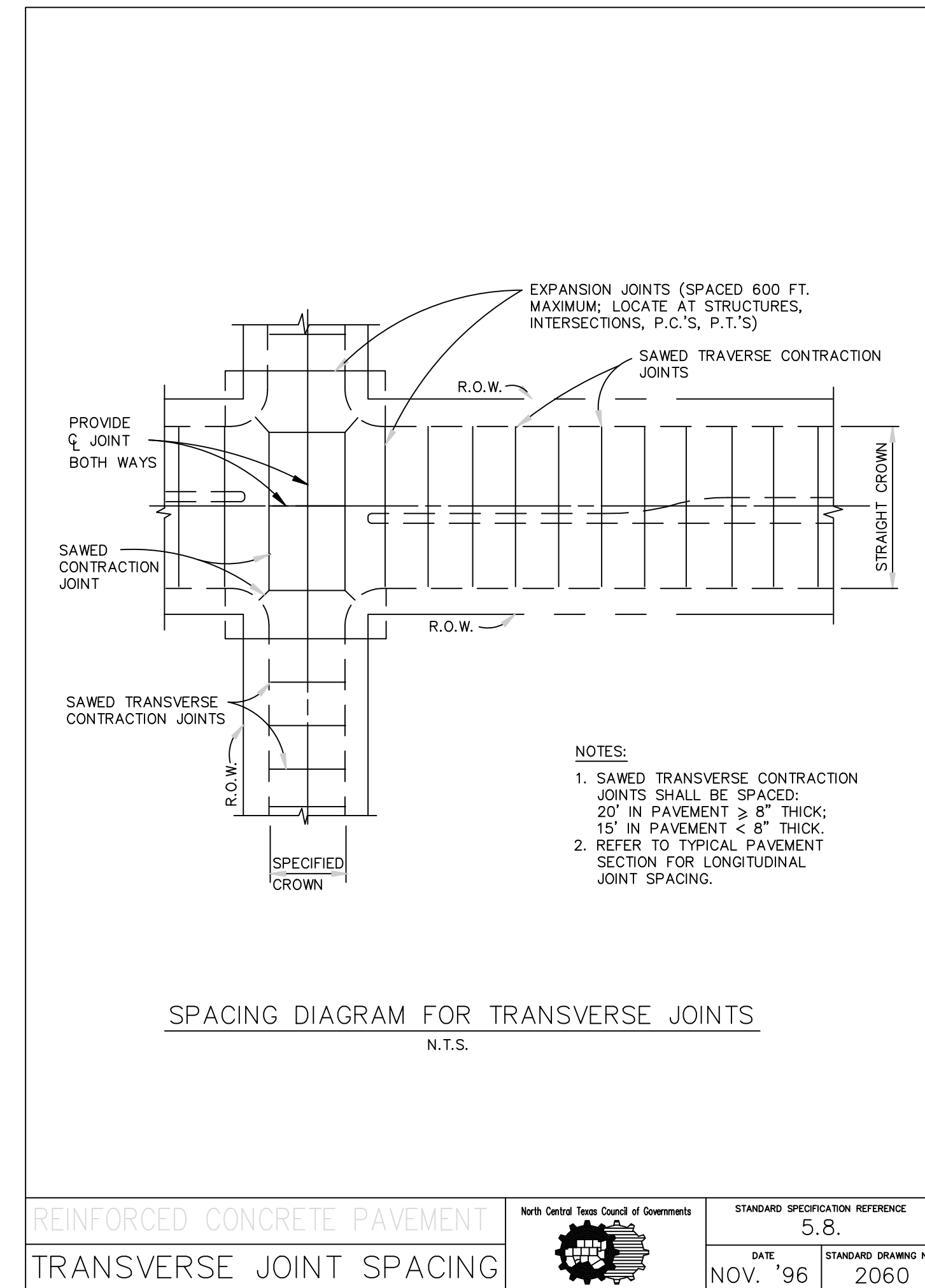
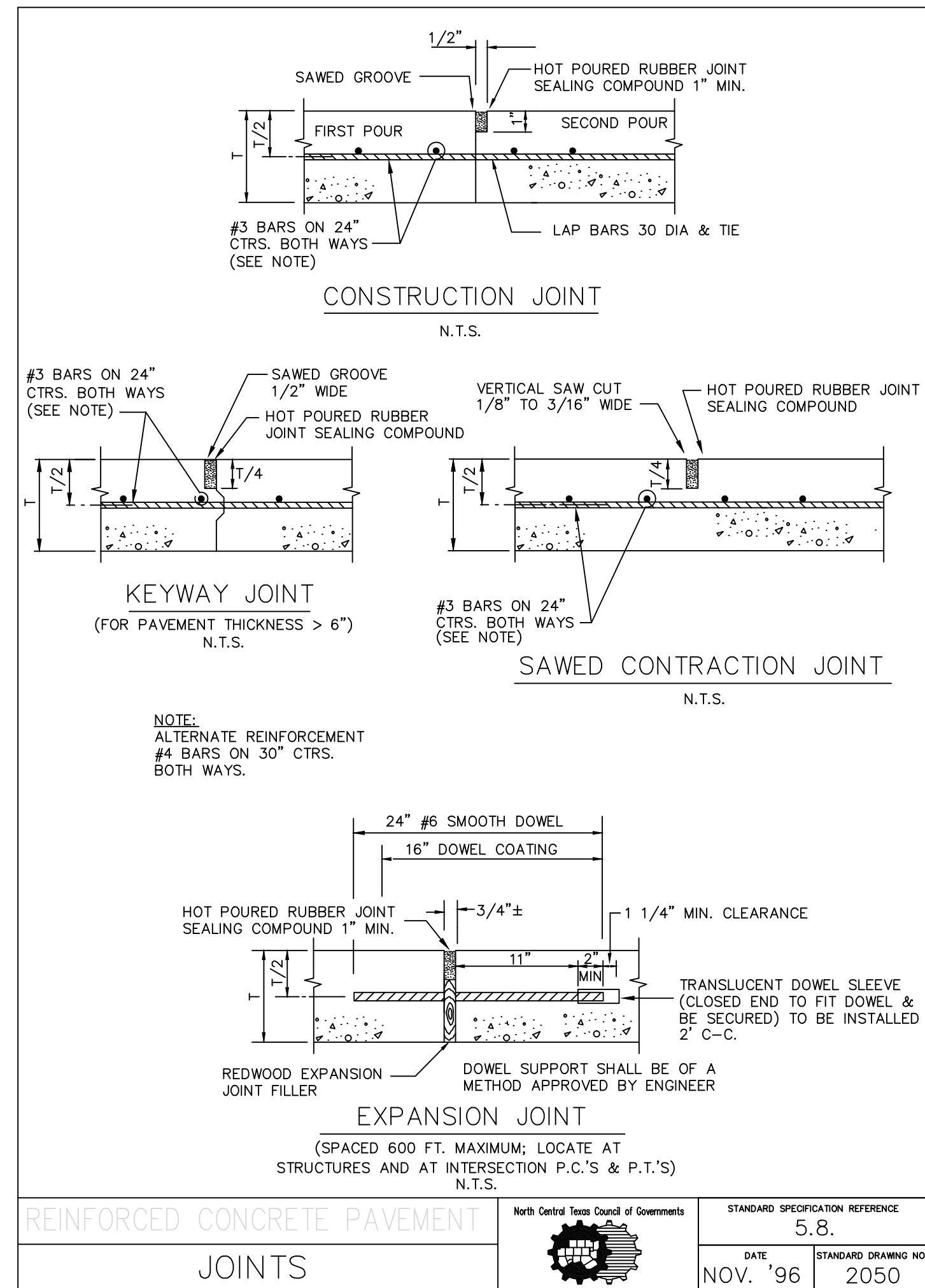
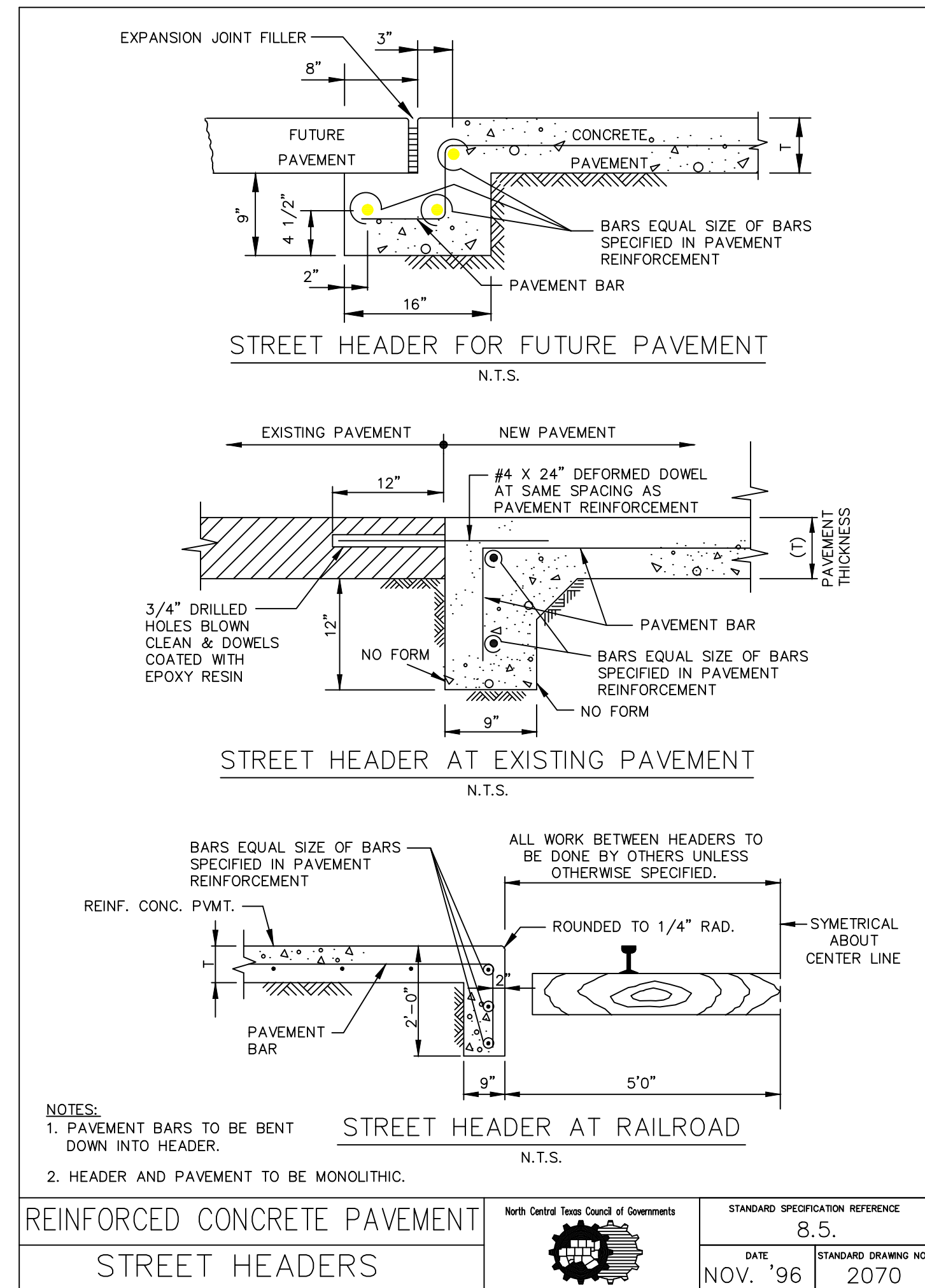


STINSON HIGHLANDS
LUCAS, TEXAS

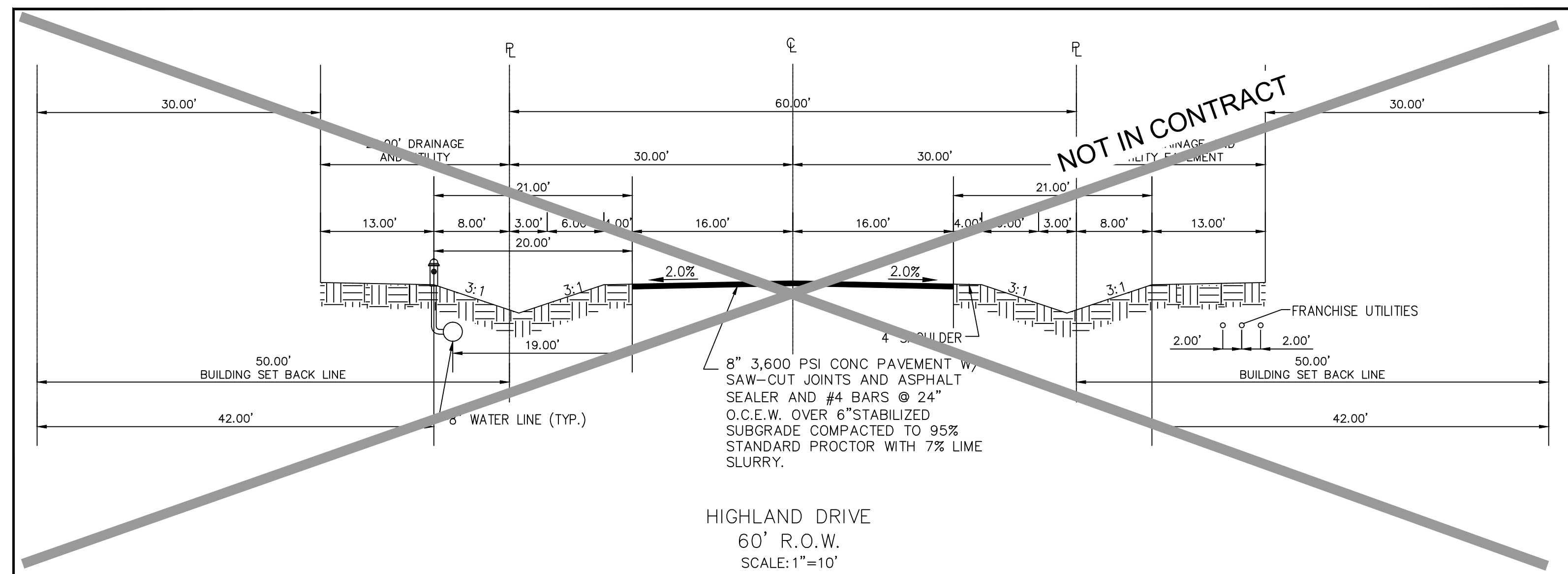
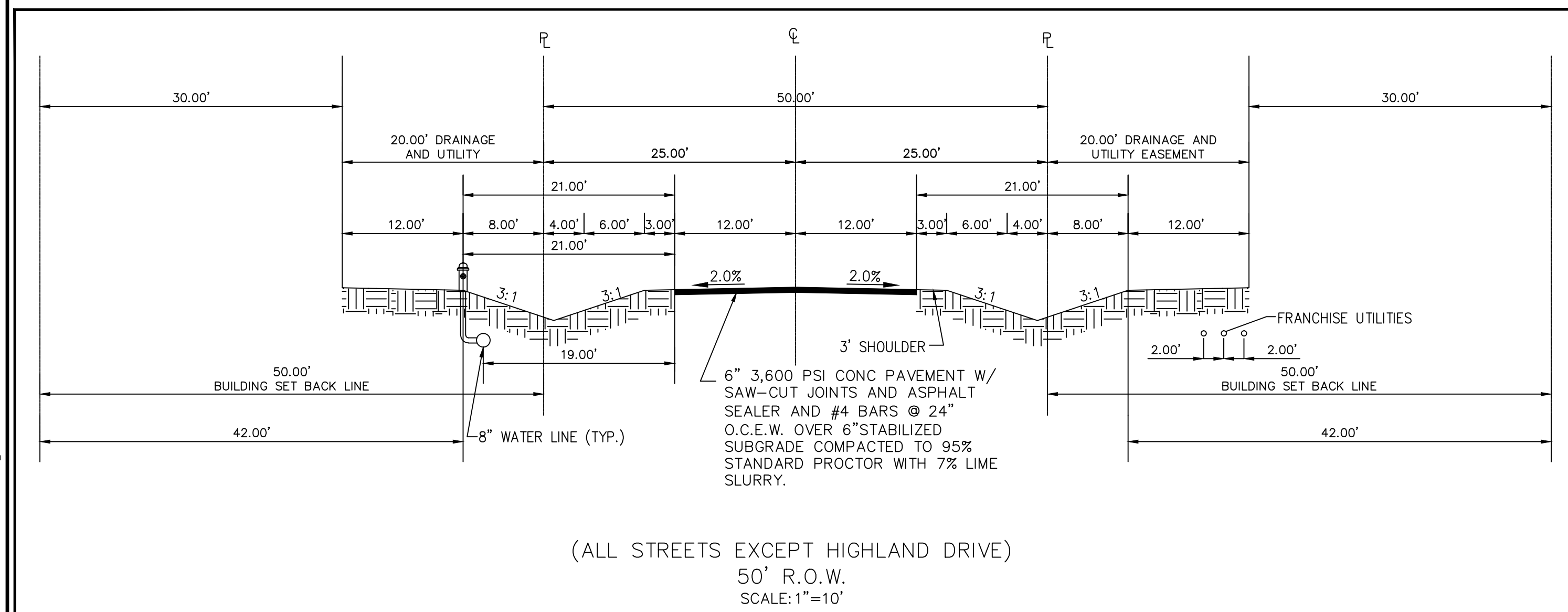
HYDROLOGY DETAILS

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Designed by:	KHA
Drawn by:	CCC
Checked by:	LRO
Date:	JUNE 13, 2014
Project No.:	064347001

SHEET
C-60



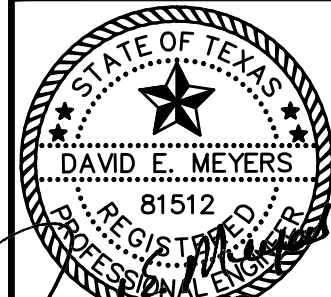
"RECORD DRAWING"
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DATE: 03/09/2017 BY: *David E. Meyer*



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PLOTTED BY FORNBY, NATHAN 3/30/2017 10:41 AM
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No.	Date	Revisions	App.

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PHONE: 972-776-1300 FAX: 972-776-3820
WWW.KIMLEY-HORN.COM TX F-928

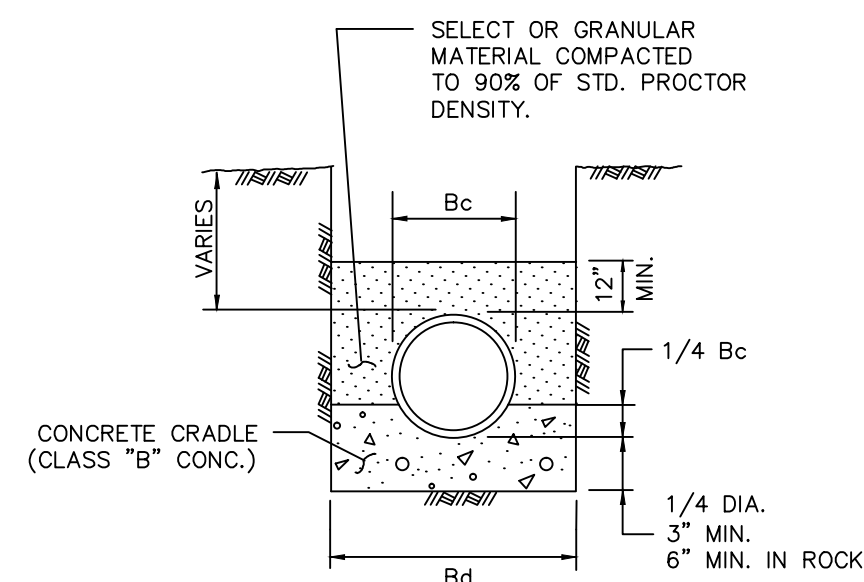


STINSON HIGHLANDS & LUCAS, TEXAS

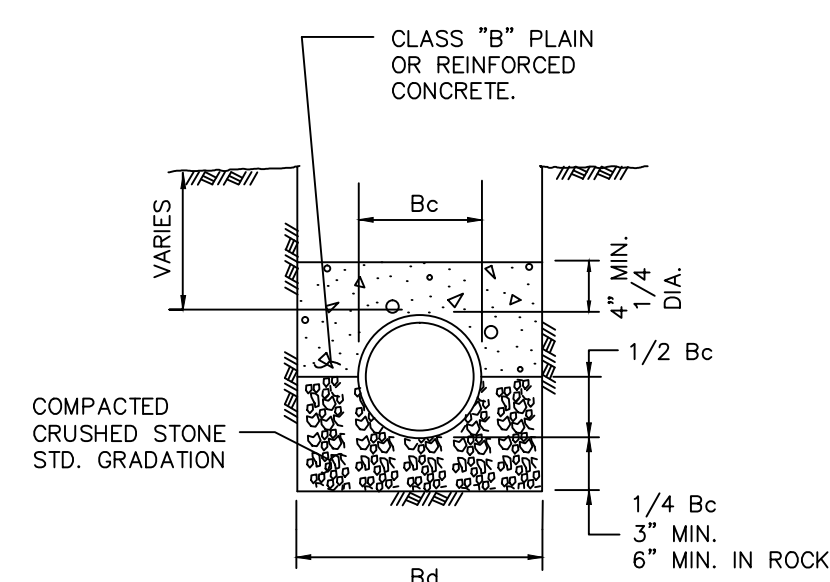
PAVING DETAILS & CROSS SECTION

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Drawn by:	RVG
Checked by:	LRO
Date:	JUNE 13, 2014
Project No.:	064347001

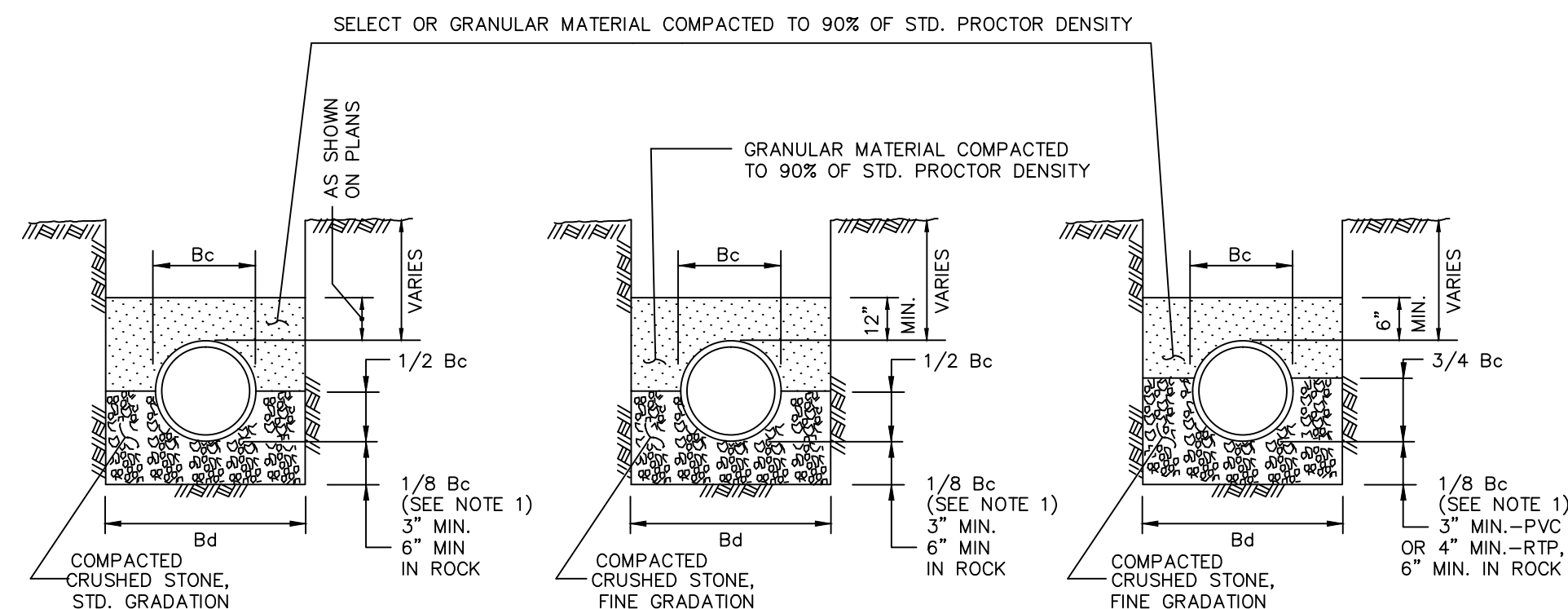
SHEET C-61



CLASS "A"
 CLASS "B" CONCRETE CRADLE
 PLAIN CONC. LF 2.8
 REINF. CONC. LF 3.4 P=0.4%
 N.T.S.



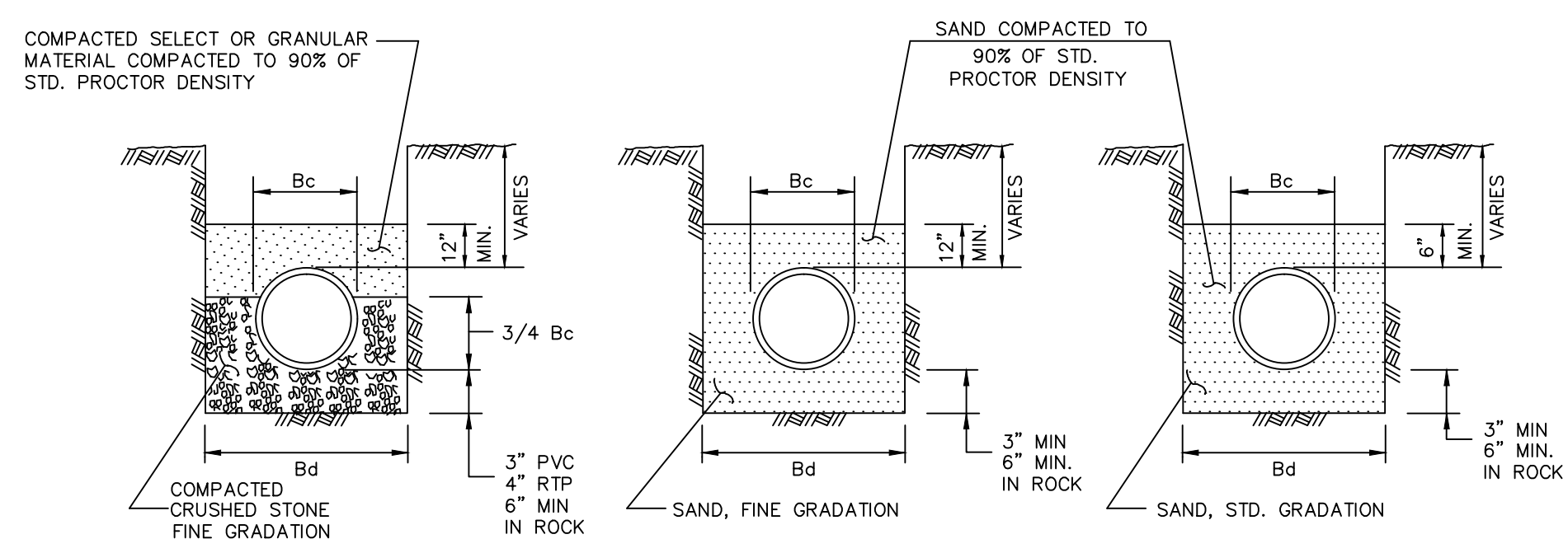
CLASS "A-1"
 CLASS "B" CONCRETE CAP
 PLAIN CONC. LF 2.8
 REINF. CONC. LF 3.4 P=0.4%
 REINF. CONC. LF 4.8 P=1.0%
 N.T.S.



CLASS "B" N.T.S.
CLASS "B+" N.T.S.
CLASS "B-1" N.T.S.

- NOTES:
 1. FOR MAINS 42" DIAMETER AND LARGER LARGER, 1/8 Bc SHALL BE TAKEN AS 6".
 2. Bc = OUTSIDE DIAMETER OF PIPE
 3. Bd = TRENCH WIDTH

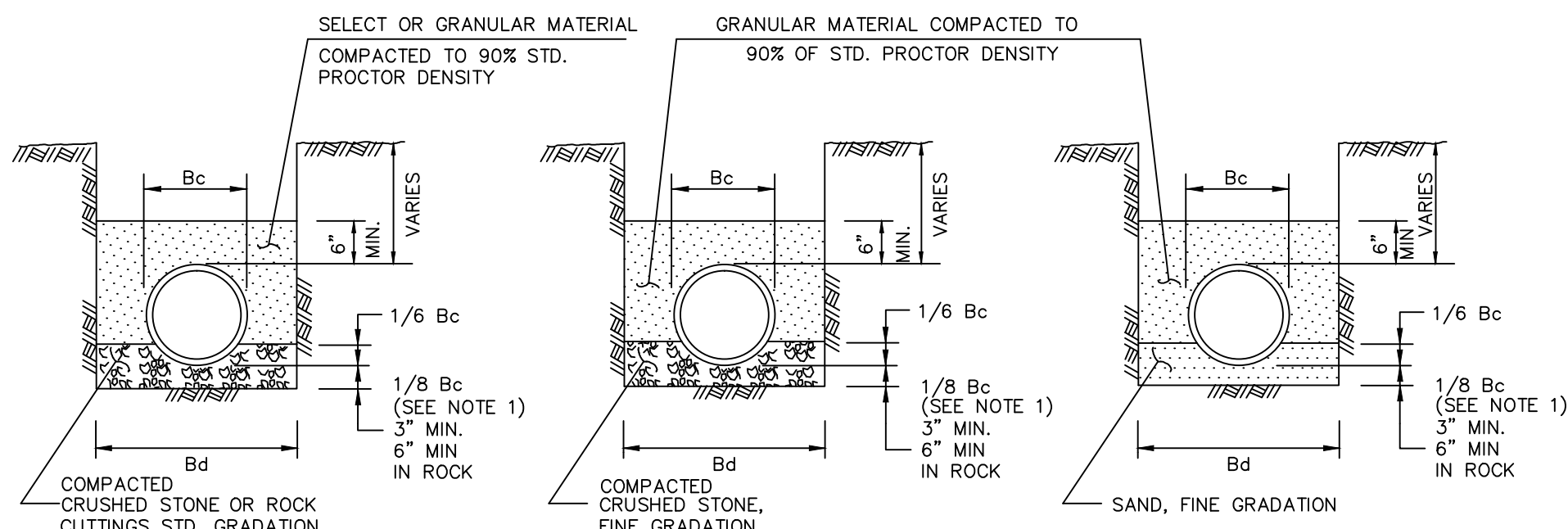
North Central Texas Council of Governments	STANDARD SPECIFICATION REFERENCE	6.2.
DATE	NOV. '96	STANDARD DRAWING NO.
		3020



CLASS "B-2" N.T.S.
CLASS "B-3" N.T.S.
CLASS "B-4" N.T.S.

- NOTES:
 1. Bc = OUTSIDE DIAMETER OF PIPE
 2. Bd = TRENCH WIDTH

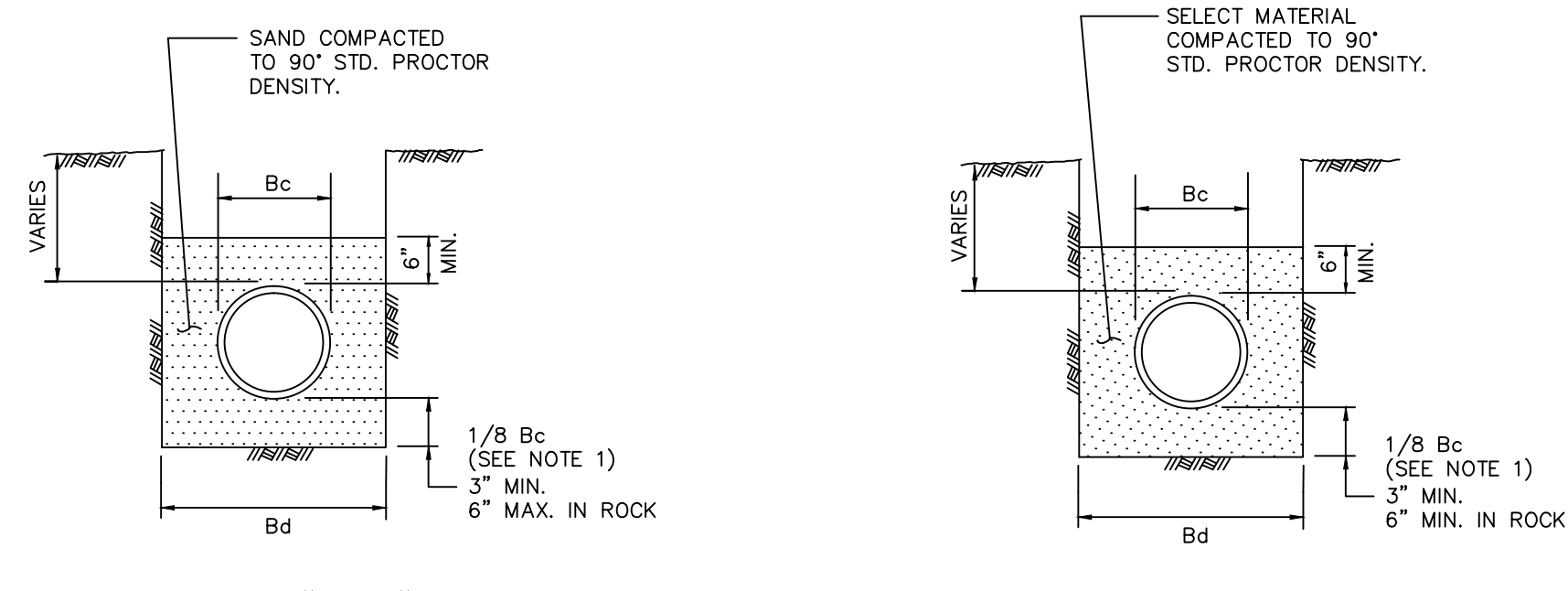
North Central Texas Council of Governments	STANDARD SPECIFICATION REFERENCE	6.2.
DATE	NOV. '96	STANDARD DRAWING NO.
		3030



CLASS "C" N.T.S.
CLASS "C+" N.T.S.
CLASS "C-1" N.T.S.

- NOTES:
 1. FOR MAINS 42" DIAMETER AND LARGER, 1/8 Bc SHALL BE TAKEN AS 6".
 2. Bc = OUTSIDE DIAMETER OF PIPE
 3. Bd = TRENCH WIDTH

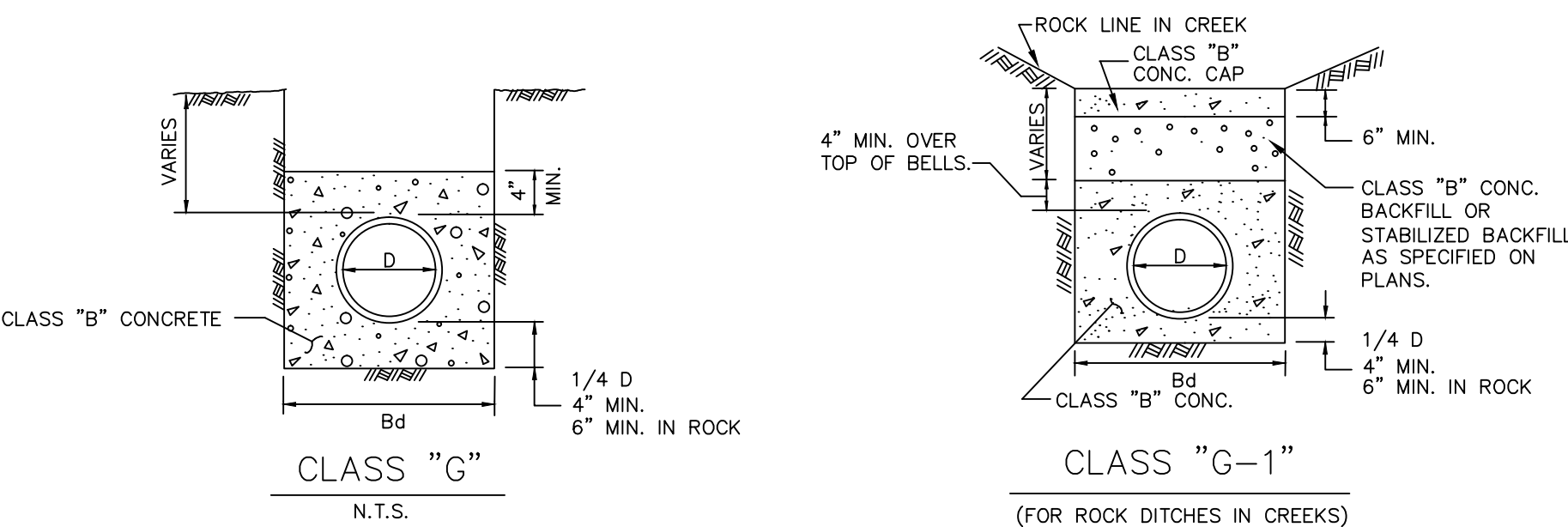
North Central Texas Council of Governments	STANDARD SPECIFICATION REFERENCE	6.2.
DATE	NOV. '96	STANDARD DRAWING NO.
		3040



CLASS "C-2" N.T.S.
CLASS "D+" N.T.S.

- NOTES:
 1. FOR MAINS 42" DIAMETER AND LARGER, 1/8 Bc SHALL BE TAKEN AS 6".
 2. Bc = OUTSIDE DIAMETER OF PIPE
 3. Bd = TRENCH WIDTH

North Central Texas Council of Governments	STANDARD SPECIFICATION REFERENCE	6.2.
DATE	NOV. '96	STANDARD DRAWING NO.
		3050

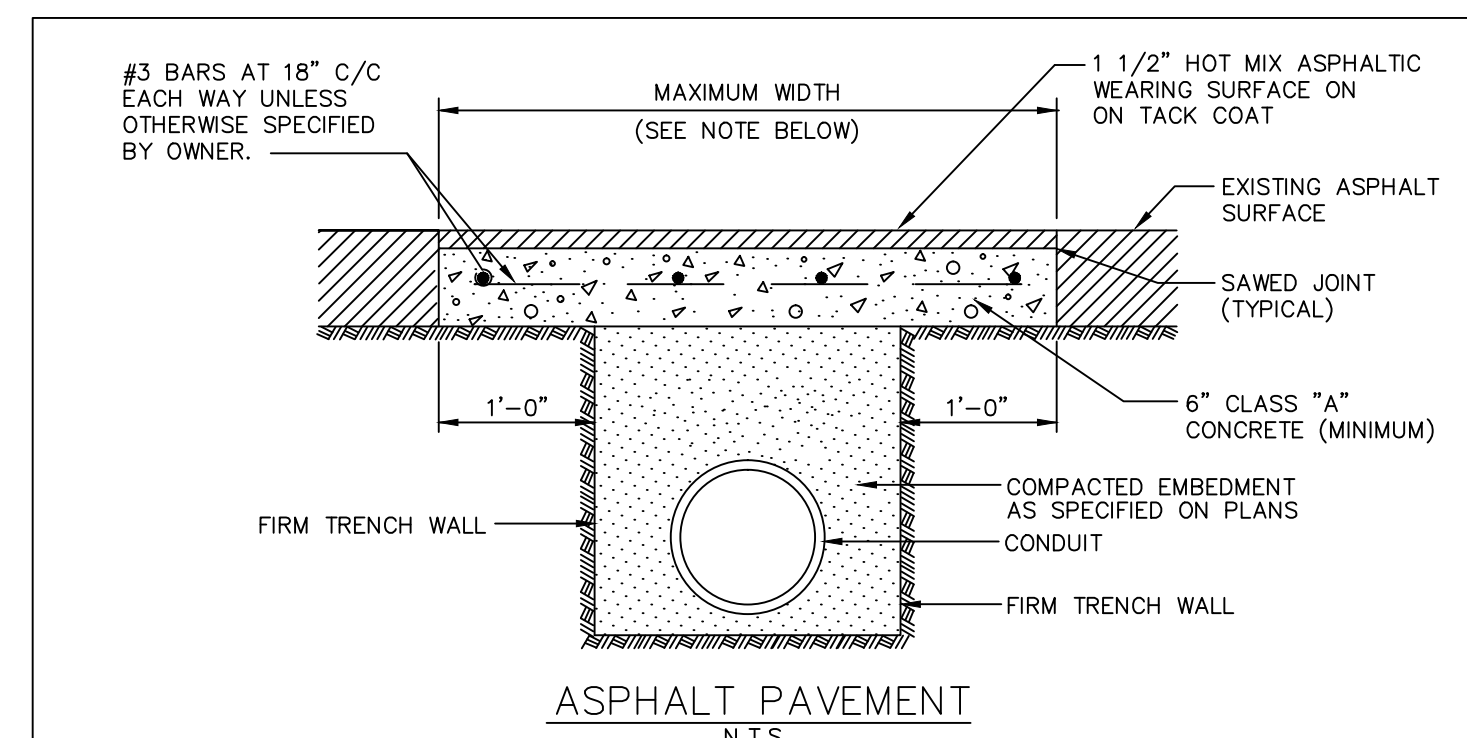


CLASS "G" N.T.S.
CLASS "G-1" N.T.S.
 (FOR ROCK DITCHES IN CREEKS)

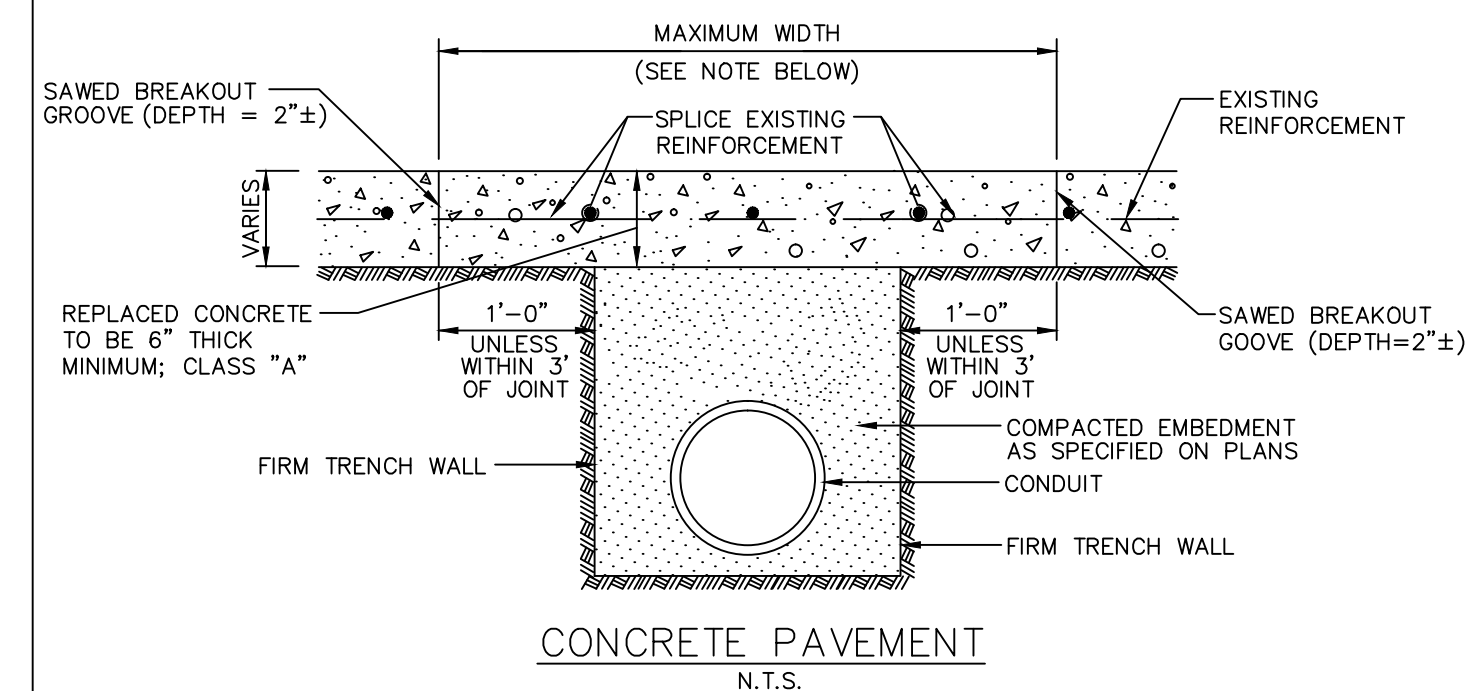
- NOTES:
 1. D = INSIDE DIAMETER OF PIPE
 2. Bd = TRENCH WIDTH

North Central Texas Council of Governments	STANDARD SPECIFICATION REFERENCE	6.2.
DATE	NOV. '96	STANDARD DRAWING NO.
		3060

NOTE:
 CONTRACTOR SHALL USE "B+" AND "G-1" EMBEDMENT AS APPLICABLE FOR WATER AND STORM SEWER CONSTRUCTION.



ASPHALT PAVEMENT
 N.T.S.



CONCRETE PAVEMENT
 N.T.S.

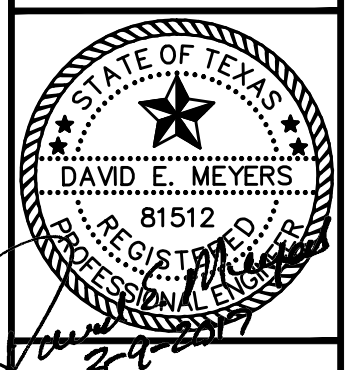
- NOTES:
 1. PAYMENT TO THE CONTRACTOR FOR REPLACEMENT OF PAVEMENT AND/OR DRIVEWAYS WILL BE BASED ON ACTUAL MEASUREMENTS UP TO A MAXIMUM WIDTH EQUAL TO THE SPECIFIED MAXIMUM TRENCH WIDTH (PER STD. SPEC. ITEM 6.2.) PLUS 2 FEET. ANY EXISTING PAVEMENT DAMAGED OR REMOVED IN EXCESS OF THE MAXIMUM LIMITS SHALL BE AT THE EXPENSE OF THE CONTRACTOR.
 2. WHEN REMOVING CONCRETE PAVEMENT THE CONTRACTOR SHALL ENDEAVOR TO LIMIT DAMAGE TO EXISTING REINFORCEMENT SO IT MAY BE EMPLOYED IN THE REPLACEMENT OPERATION. IF ORIGINAL REINFORCEMENT IS CUT OR BROKEN, REPLACEMENT BARS OF THE SAME SIZE SHALL BE INSTALLED BY DRILLING AND DOWELLING AS DIRECTED BY THE OWNER.

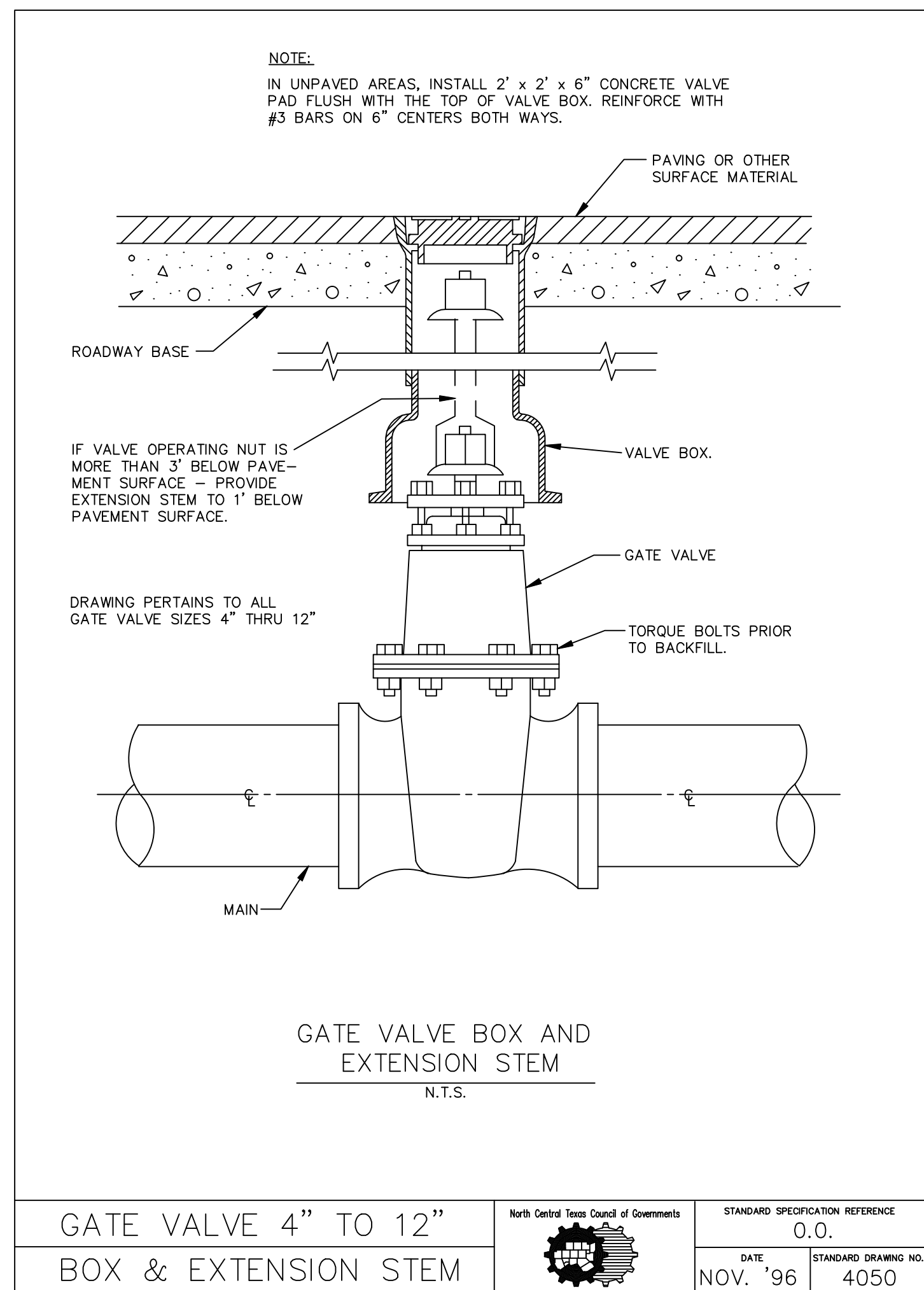
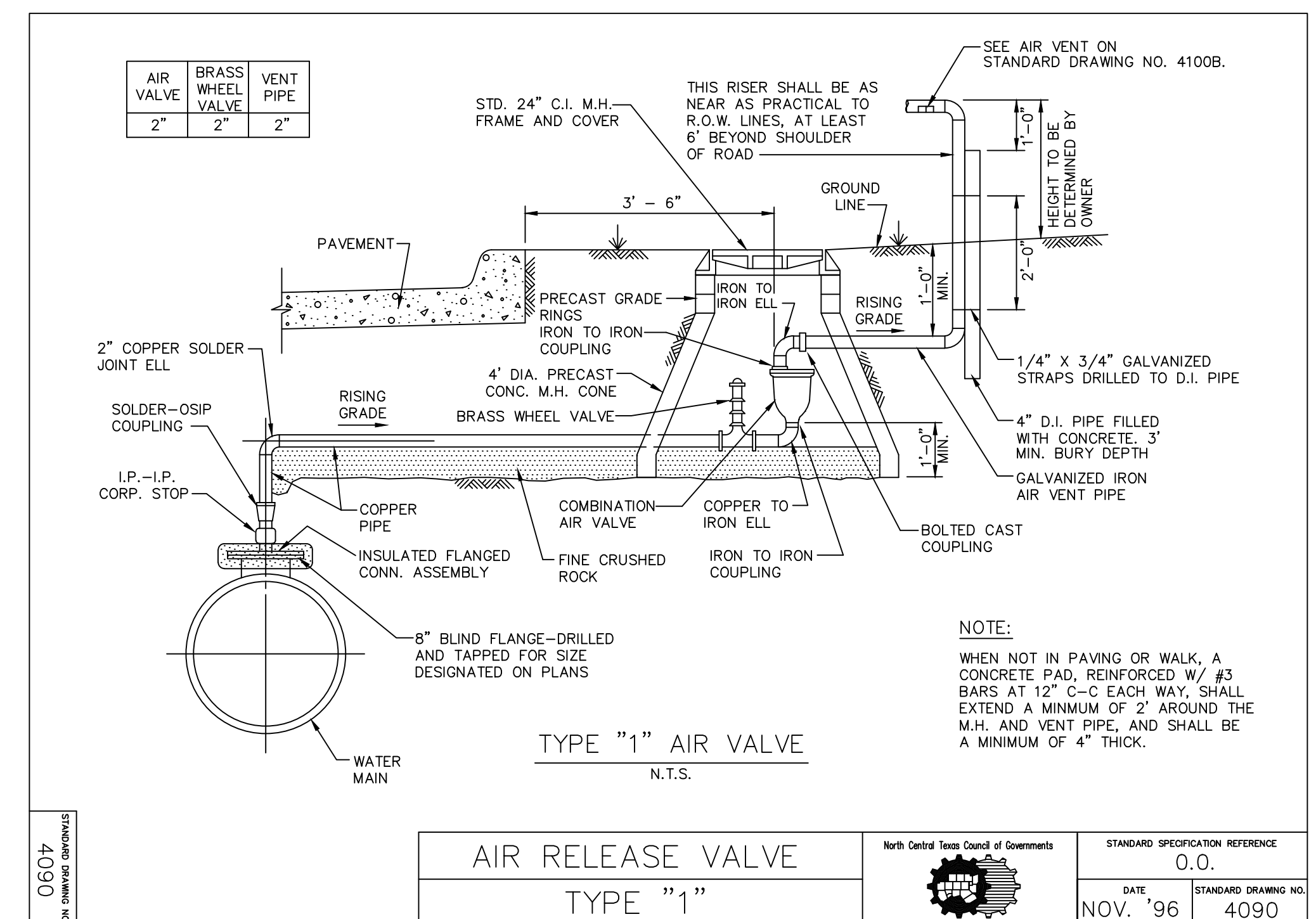
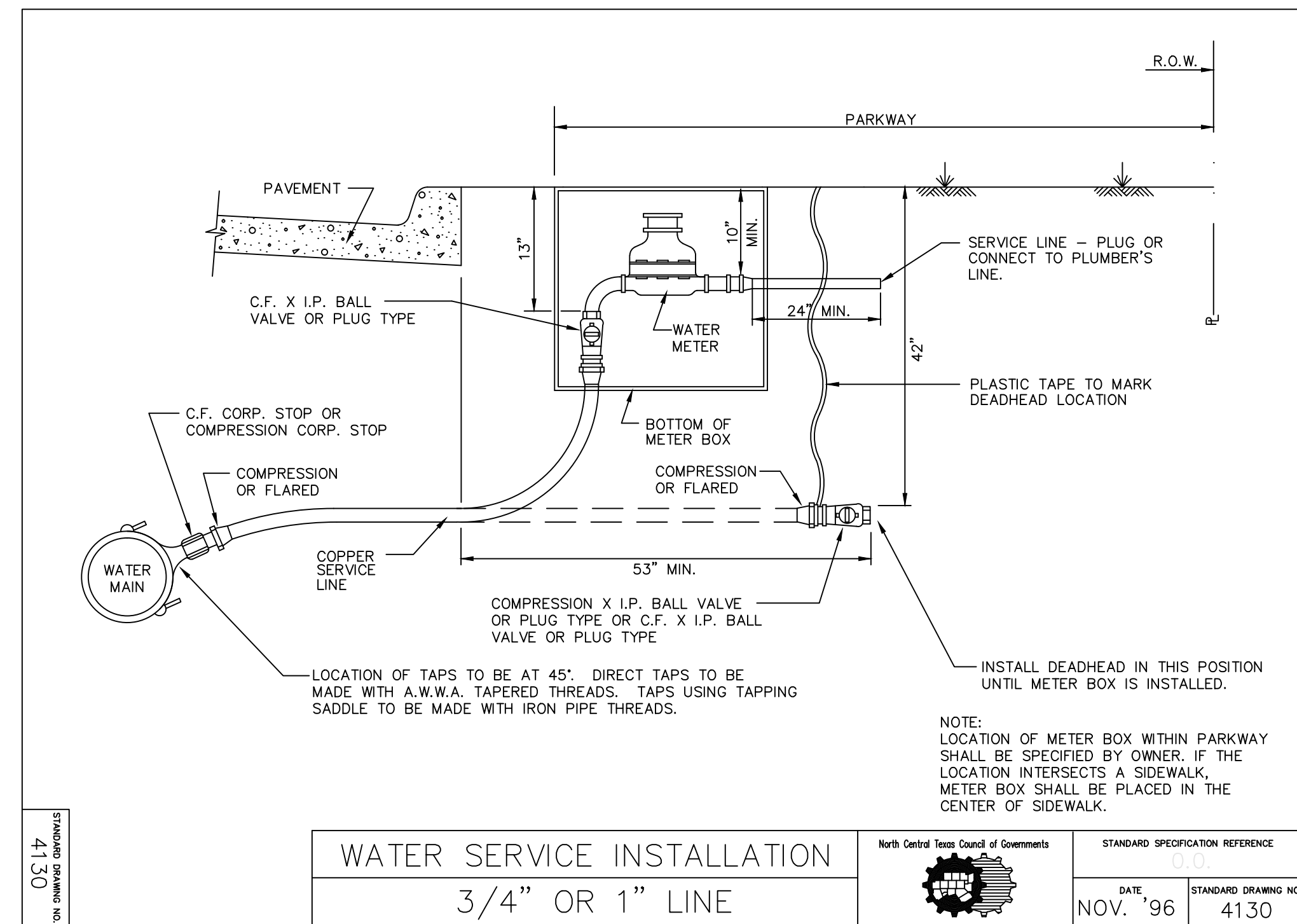
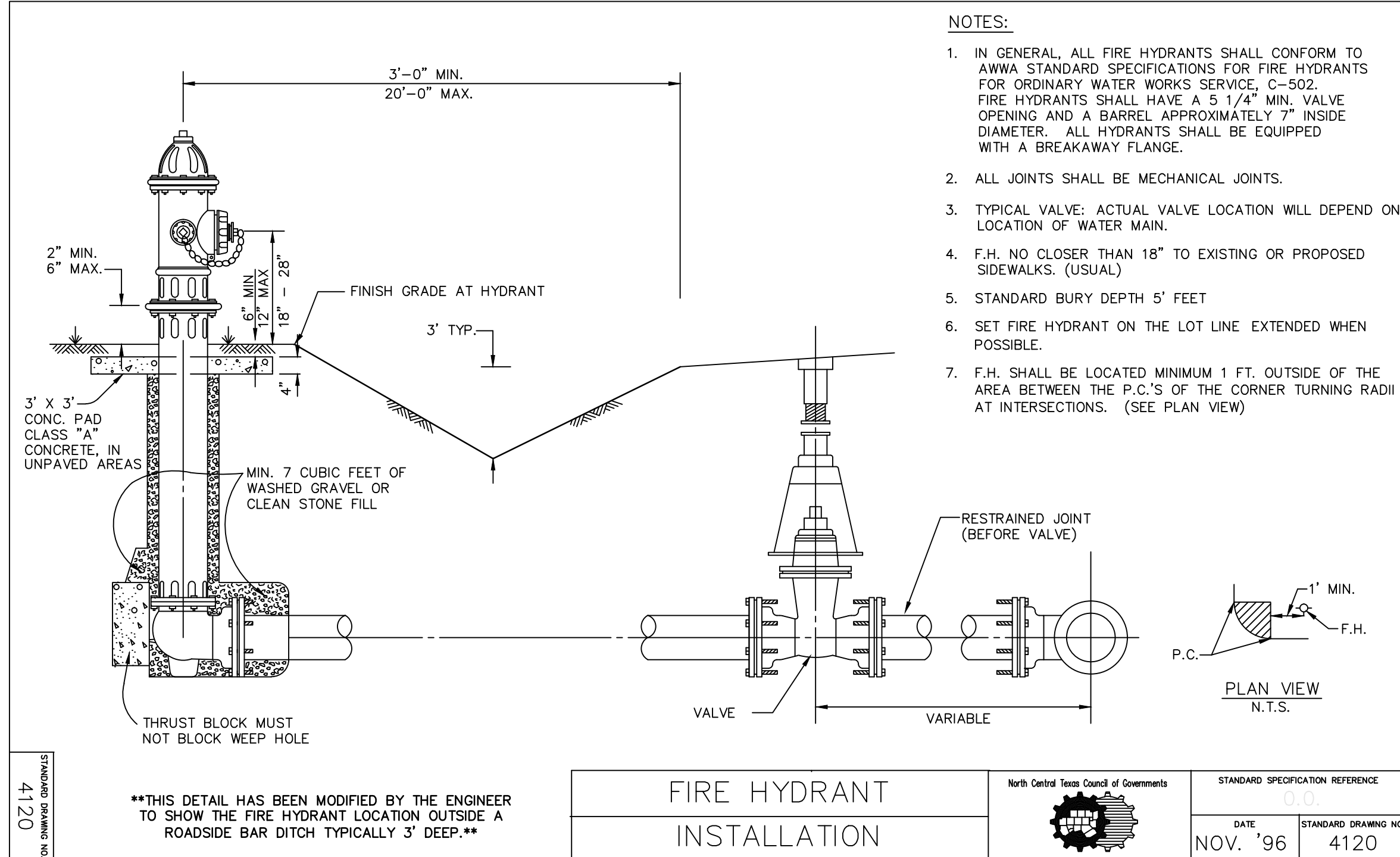
North Central Texas Council of Governments	STANDARD SPECIFICATION REFERENCE	6.5.
DATE	NOV '96	STANDARD DRAWING NO.
		3070

"RECORD DRAWING"
 THIS DRAWING HAS BEEN REVISED TO SHOW THOSE CHANGES DURING THE CONSTRUCTION PROCESS REPORTED BY THE CONTRACTOR TO KIMLEY-HORN AND ASSOCIATES, INC. AND CONSIDERED TO BE SIGNIFICANT. THIS DRAWING IS NOT GUARANTEED TO BE "AS BUILT" BUT IS BASED ON THE INFORMATION MADE AVAILABLE.
 DATE: 03/09/2017 BY: *David S. Mayfield*

201009 DEM-06 - 201009 DEM-06 -
 LAST SAVED 3/20/2017 10:52 AM
 PLOTTED BY FORNIE, NATHAN 3/20/2017 10:52 AM
 DRAWN BY FORNIE, NATHAN 3/20/2017 10:52 AM
 CHECKED BY FORNIE, NATHAN 3/20/2017 10:52 AM
 DATE 3/20/2017 10:52 AM

North Central Texas Council of Governments	STANDARD SPECIFICATION REFERENCE	6.2.
DATE	NOV. '96	STANDARD DRAWING NO.
		3060

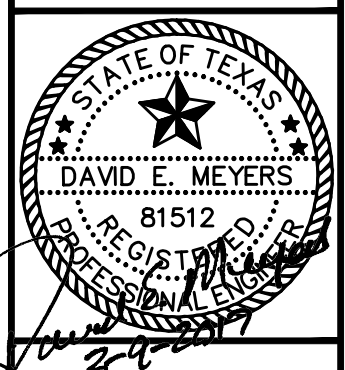




"RECORD DRAWING"
THIS DRAWING HAS BEEN REVISED TO SHOW THOSE CHANGES DURING THE CONSTRUCTION PROCESS REPORTED BY THE CONTRACTOR TO KIMLEY-HORN AND ASSOCIATES, INC. AND CONSIDERED TO BE SIGNIFICANT. THIS DRAWING IS NOT GUARANTEED TO BE "AS BUILT" BUT IS BASED ON THE INFORMATION MADE AVAILABLE.
DATE: 03/09/2017 BY: *David E. Meyer*

2013/09/26 10:46 AM - 2013/09/26 10:46 AM
LAST SAVED
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PLOTTER: HP PLOTTER
PLOTTER: HP PLOTTER

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12950 KIMLEY-HORN DRIVE, SUITE 100, FORT WORTH, TEXAS 76134
PHONE: 972-270-1300 FAX: 972-239-3820
WWW.KIMLEY-HORN.COM TX F-928



STINSON HIGHLANDS
LUCAS, TEXAS

WATER DETAILS

Scale:	N/A
Designed by:	KHA
Drawn by:	RVG
Checked by:	LRO
Date:	JUNE 13, 2014
Project No.:	064547001

SHEET
C-64

