CIVIL CONSTRUCTION PLANS PAVING, GRADING & UTILITIES

FOR

APPROVED
CITY OF LUCAS
CITY ENGINEER DATE
3-10-22

HENDRICK FARM

CITY OF LUCAS, COLLIN COUNTY, TEXAS

PLAN SUBMITTAL/REVIEW LOG

1ST SUBMITTAL TO CITY	03/02/2018
2ND SUBMITTAL TO CITY	04/30/2018
3RD SUBMITTAL TO CITY	05/14/2018
4TH SUBMITTAL TO CITY	09/08/2021
5TH SUBMITTAL TO CITY	10/08/2021
6TH SUBMITTAL TO CITY	12/10/2021
7TH SUBMITTAL TO CITY	01/31/2022

ENGINEER

Kimley» Horn

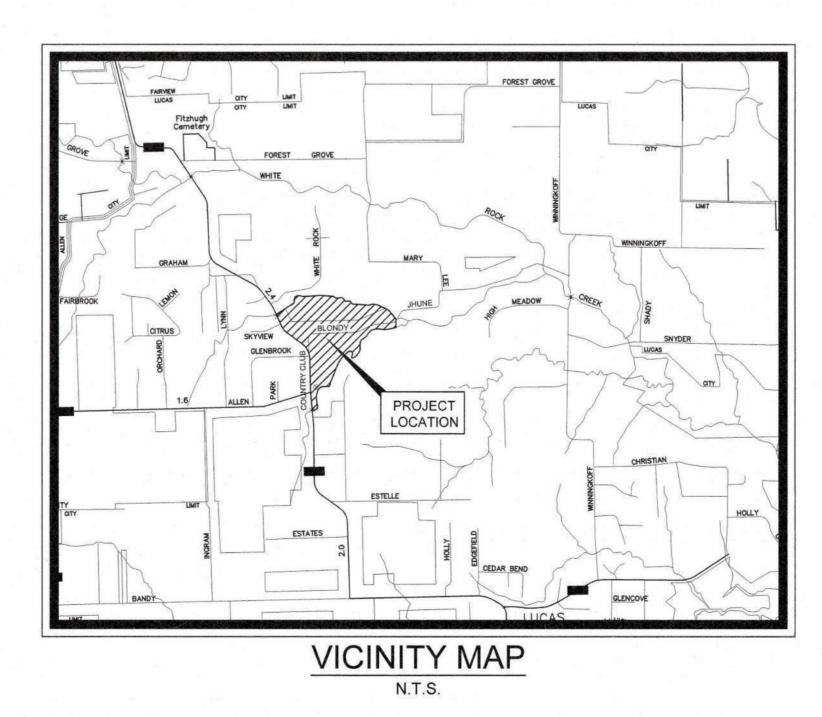
13455 NOEL ROAD STATE OF TEXAS
SUITE 700 REGISTRATION NO. F-928
DALLAS, TEXAS 75204
TEL: (972) 770-1300
CONTACT: SARAH E. SCOTT, P.E.

OWNER/DEVELOPER

HENDRICK FARM, LLC 800 CENTRAL PARKWAY EAST, SUITE 100 PLANO, TEXAS 75074 TEL: (972) 422-4515 CONTACT: RUTLEDGE HAGGARD







JANUARY 2022

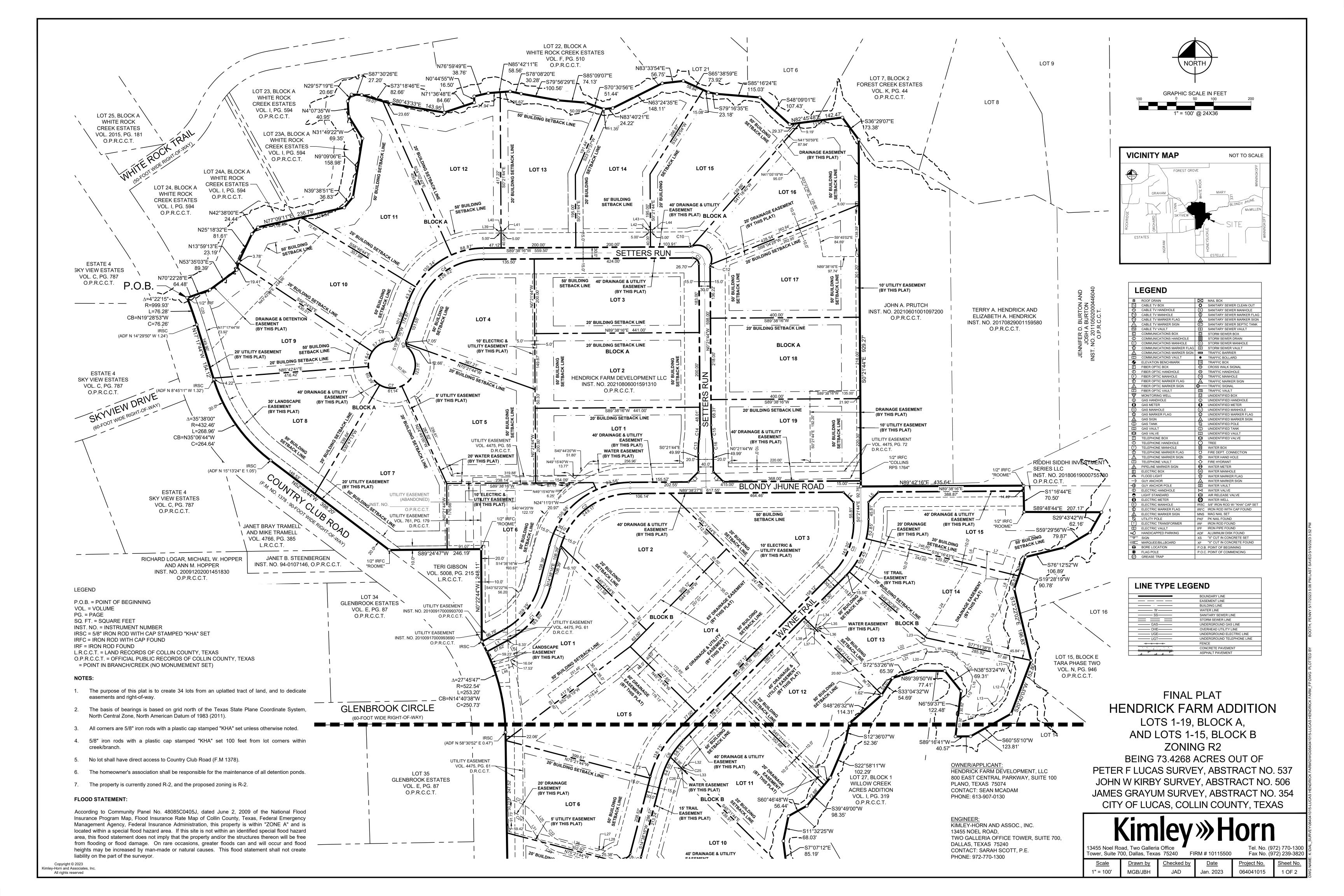
SHEET INDEX

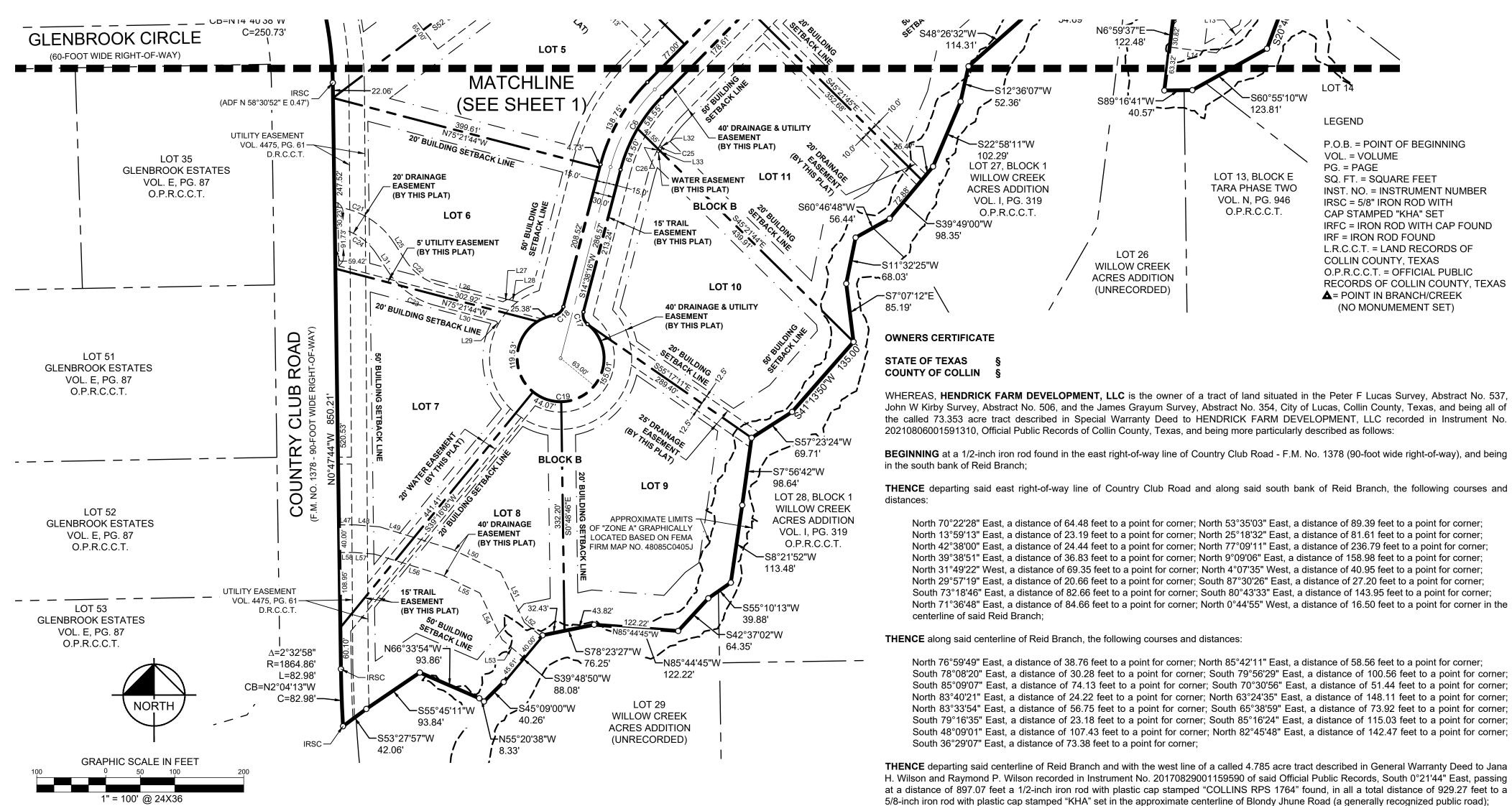
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RECORD DRAWING

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: 05/19/2023 BY: SARAH SCOTT





VICINITY MAP	NOT TO SCALE
FSTATES ROCKRIDGE ROCKRIDGE AMHITE ROCK HONEYSUCKLE	MARY BLONDY JHUNE BLONDY JHUNE BLONDY JHUNE BLONDY JHUNE BLONDY JHUNE BLONDY JHUNE BLONDY JHUNE

BLOCK	Α		BLOCK B				
LOT NO.	ACRES	SQ. FT.	LOT NO.	ACRES	SQ. FT.		
1	2.018	87,919	1	2.188	95,291		
2	2.025	88,200	2	2.179	94,938		
3	2.023	88,138	3	2.114	92,082		
4	2.000	87,134	4	2.087	90,915		
5	2.156	93,935	5	2.056	89,561		
6	2.036	88,703	6	2.000	87,126		
7	2.281	99,347	7	2.004	87,282		
8	2.000	87,130	8	2.004	87,283		
9	2.000	87,122	9	2.013	87,675		
10	2.000	87,140	10	2.023	88,139		
11	2.001	87,146	11	2.001	87,151		
12	2.013	87,682	12	2.000	87,121		
13	2.033	88,565	13	2.198	95,739		
14	2.032	88,493	14	2.013	87,680		
15	2.193	95,548	15	2.102	91,543		
16	2.011	87,590					
17	2.040	88,862					
18	2.002	87,200					

19 2.001 87,182

CURVE TABLE						LINE TABLE			LINE TABLE		
NO.	DELTA	RADIUS	LENGTH	CHORD BEARING	CHORD	NO.	BEARING	LENGTH	NO.	BEARING	LENGTH
C1	46°48'13"	210.00'	171.54'	N38°02'22"E	166.81'	L1	N61°26'29"E	66.97'	L30	N75°21'44"W	92.27'
C2	75°00'11"	210.00'	274.90'	N52°08'21"E	255.69'	L2	S44°38'16"W	38.22'	L31	N33°34'21"W	33.14'
СЗ	90°00'00"	32.00'	50.27'	N45°21'44"W	45.25'	L3	N45°21'44"W	38.18'	L32	S50°22'08"E	5.78'
C4	70°00'00"	200.00'	244.35'	S54°38'16"W	229.43'	L4	S45°21'44"E	38.11'	L33	S39°37'52"W	10.00'
C5	45°00'00"	200.00'	157.08'	S22°08'16"W	153.07'	L5	N44°38'16"E	38.18'	L34	N44°38'16"E	5.00'
C6	30°00'00"	250.00'	130.90'	S29°38'16"W	129.41'	L6	N13°57'04"E	34.52'	L35	S45°21'44"E	6.87'
C7	312°50'37"	63.00'	343.99'	S70°21'44"E	50.40'	L7	S76°02'56"E	114.00'	L36	S44°38'16"W	10.00'
C8	66°25'19"	17.00'	19.71'	S13°34'24"E	18.62'	L8	S17°06'24"W	139.64'	L37	N45°21'44"W	6.87'
C9	66°25'19"	17.00'	19.71'	S52°50'55"W	18.62'	L9	S31°26'53"W	60.92'	L38	N44°38'16"E	5.00'
C10	21°57'24"	20.00'	7.66'	S78°39'34"W	7.62'	L10	S11°35'33"E	67.88'	L39	N00°21'44"W	6.88'
C11	133°54'48"	38.00'	88.81'	N45°21'44"W	69.94'	L11	S12°08'22"W	79.08'	L40	N89°38'16"E	10.00'
C12	21°57'24"	20.00'	7.66'	N10°36'58"E	7.62'	L12	S24°44'56"W	38.83'	L41	S00°21'44"E	6.88'
C13	8°37'07"	253.00'	38.06'	S03°27'12"W	38.02'	L13	S47°05'08"W	67.80'	L42	N00°21'44"W	6.88'
C14	8°37'29"	247.00'	37.18'	S03°27'01"W	37.15'	L14	S83°00'23"E	68.14'	L43	N89°38'16"E	10.00'
C15	8°37'28"	247.00'	37.18'	N04°10'30"W	37.15'	L15	N40°46'43"E	43.49'	L44	S00°21'44"E	6.88'
C16	8°37'07"	253.00'	38.06'	N04°10'40"W	38.02'	L16	N10°17'05"E	31.28'	L45	N28°33'31"W	50.00'
C17	66°25'19"	17.00'	19.71'	N18°34'24"W	18.62'	L17	N28°38'34"W	40.34'	L46	N71°13'39"E	50.00'
C18	66°25'19"	17.00'	19.71'	S47°50'55"W	18.62'	L18	N57°41'05"W	58.60'	L47	N90°00'00"E	24.11'
C19	312°50'37"	63.00'	343.99'	S75°21'44"E	50.40'	L19	S87°18'05"W	50.50'	L48	S85°22'09"E	35.09'
C20	4°19'51"	1019.93'	77.09'	N19°27'41"W	77.07'	L20	N18°51'35"W	9.28'	L49	S72°47'29"E	109.54'
C21	51°12'35"	115.00'	102.78'	S59°10'38"E	99.40'	L21	S71°08'25"W	191.57'	L50	S64°36'54"E	77.98'
C22	41°47'23"	85.00'	62.00'	S54°28'03"E	60.63'	L22	N71°08'25"E	205.19'	L51	S25°29'29"E	80.55'
C23	41°47'23"	115.00'	83.88'	N54°28'03"W	82.03'	L23	N18°51'35"W	8.16'	L52	S50°11'10"E	32.23'
C24	49°04'29"	85.00'	72.80'	S58°06'35"E	70.60'	L24	N31°22'38"E	222.63'	L53	N50°11'10"W	40.98'
C25	1°46'19"	195.00'	6.03'	N28°14'13"E	6.03'	L25	S33°34'21"E	33.14'	L54	N25°29'29"W	75.09'
C26	1°13'56"	195.00'	4.19'	N26°44'05"E	4.19'	L26	S75°21'44"E	94.32'	L55	N64°36'54"W	60.91'
	<u>-</u>					L27	N60°56'42"E	7.24'	L56	N72°47'29"W	102.28'
						L28	S75°21'44"E	14.94'	L57	N85°22'09"W	29.06'
						1 20	N31°30'54"\N	4 92'	1.58	NIOU.UU.IV	21 03'

											
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						L28	S75°21'44"E	14.94'	L57	N85°22'09"W	29.06'
						L29	N31°39'54"W	4.92'	L58	N90°00'00"W	21.93'

OWNER'S DEDICATION

STATE OF TEXAS

COUNTY OF COLLIN §

NOW THEREFORE, KNOW ALL MEN BY THESE PRESENTS:

That WE, HENDRICK FARM DEVELOPMENT, LLC, Owners, do hereby bind themselves and their heirs, assignees and successors of title this plat designating the hereinabove described property as **HENDRICK FARMS ADDITION**, an addition to the City of Lucas, and do hereby dedicate to the public use forever the streets, alleys. and right-of-way easements shown thereon, and do hereby reserve the easement strips shown on this plat for the mutual use and accommodation of garbage collection agencies and all public utilities desiring to use or using same. Any public utility shall have the right to remove and keep removed all or part of any buildings, fences, trees, shrubs, or other improvements or growths that in any way endanger or interfere with the construction, maintenance or efficiency of its respective systems on any of these easements strips, and any public utility shall at all times have the right of ingress and egress to and from and upon the said easement strips for the purpose of constructing, reconstructing, inspecting, patrolling, without the necessity at any time of procuring the permission of anyone. Additionally, we certify that we are the sole owners of the dedicated property and that no other's interest is attached to this property unless otherwise indicated on the required Mortgage Holder Certification that is included on this plat.

Furthermore, as the owner of the property described herein, and in consideration of establishing the subdivision described herein, we agree to the following:

• Every owner of fee simple title to every individual lot within the subdivision shall be a member of the homeowners' association;

The homeowners' association shall have the authority to collect membership fees;

• As applicable as it pertains to conditions shown herein, the homeowners' association shall be responsible for the maintenance of all common areas, screening walls, landscaped areas, private streets and alleys.

• The homeowners' association shall grant the City the right of access to any areas to abate any nuisances on such areas, and attach a lien upon each individual lot for the prorated costs of abatement.

• The homeowners' association shall indemnify and hold the City harmless from any and all costs, expenses, suits, demands, liabilities, damages, or otherwise, including attorney fees and costs of suit, in connection with the City's maintenance of common areas.

• The homeowners' association shall, where additional rights-of-way has been dedicated for the purpose of providing landscaping, additional areas for sidewalks, walls or other amenities, enter into a license agreement with the City and shall be responsible for the installation and maintenance of all landscape areas in the public

This plat approved subject to all platting ordinances, rules, regulations and resolutions of the City of Lucas, Texas.

HENDRICK FARM DEVELOPMENT, LLC.

a Texas limited liability company

R. Neil Crouch, II, President

STATE OF TEXAS COUNTY OF COLLIN §

BEFORE ME, the undersigned, a Notary Public in and for the said County and State, on this day personally appeared Rutledge Haggard, known to me to be the person whose name is subscribed to the foregoing instrument and acknowledged to me that he executed the same for the purpose therein expressed and under oath stated that the statements in the foregoing certificate are true.

GIVEN UNDER MY HAND AND SEAL OF OFFICE this _____ day of ______, 20_____,

Notary Public in and for the State of Texas

SURVEYORS CERTIFICATE

THAT I, J. Andy Dobbs, do hereby certify, that I prepared this plat from an actual on the ground survey of the land as described and that the corner monuments shown thereon were properly placed under my personal supervision in accordance with the Platting Rules and Regulations of the City of Lucas Planning and Zoning

PRELIMINARY

THIS DOCUMENT SHALL

NOT BE RECORDED FOR

ANY PURPOSE AND

SHALL NOT BE USED OR

Dated the ____ day of ____

PRELIMINARY PLAT FOR INSPECTION PURPOSES ONLY

J. Andy Dobbs Registered Professional Land Surveyor No. 6196 Kimley-Horn and Associates, Inc. 13455 Noel Road, Two Galleria

Office Tower, Suite 700 Dallas, Texas 75240 Ph. 972-770-1300

VIEWED OR RELIED UPON AS A FINAL SURVEY DOCUMENT andy.dobbs@kimley-horn.con

STATE OF TEXAS **COUNTY OF DALLAS**

BEFORE ME, the undersigned, a Notary Public in and for the said County and State, on this day personally appeared Andy Dobbs known to me to be the person whose name is subscribed to the foregoing instrument and acknowledged to me that he executed the same for the purpose therein expressed and under oath stated that the statements in the foregoing certificate are true.

GIVEN UNDER MY HAND AND SEAL OF OFFICE this _____ day of _____, 20____.

Notary Public in and for the State of Texas

CERTIFICATE OF APPROVAL

This plat is hereby approved by the Planning and Zoning Commission of the City of

Chairman, Planning and Zoning Commission Dusty Kuykendall

ATTEST:

Signature South 53°27'57" West, a distance of 42.06 feet to a 5/8-inch iron rod with plastic cap stamped "KHA" set in said east right-of-way line of

Print Name & Title

The Director of Public Works of the City of Lucas, Texas hereby certifies that to the best of his/her knowledge or belief, this subdivision plat conforms to all requirements of the Lucas Development Code and with engineering construction standards and processes adopted by the City of Lucas, Texas as to which his approval is required.

Director of Public Works Scott Holden

The Director of Planning and Community Development hereby certifies that to the best of his/her knowledge or belief, this subdivision plat conforms to all requirements of the Code of Ordinances, or as may have been amended or modified, as allowed, by the Planning and Zoning Commission as to which his/her approval is required.

Director of Planning and Community Development

Joseph Hilbourn

OWNER/APPLICANT: HENDRICK FARM DEVELOPMENT, LLC 800 EAST CENTRAL PARKWAY, SUITE 100 PLANO, TEXAS 75074 CONTACT: RUTLEDGE HAGGARD PHONE: 972-770-1300

PHONE:

KIMLEY-HORN AND ASSOC., INC. 13455 NOEL ROAD, TWO GALLERIA OFFICE TOWER, SUITE 700, DALLAS, TEXAS 75240 CONTACT: SARAH SCOTT, P.E.

FINAL PLAT HENDRICK FARM ADDITION LOTS 1-19, BLOCK A, AND LOTS 1-15, BLOCK B

ZONING R2 BEING 73.4268 ACRES OUT OF PETER F LUCAS SURVEY, ABSTRACT NO. 537

JOHN W KIRBY SURVEY, ABSTRACT NO. 506 JAMES GRAYUM SURVEY, ABSTRACT NO. 354 CITY OF LUCAS. COLLIN COUNTY. TEXAS

Tower, Suite 700, Dallas, Texas 75240 FIRM # 10115500 Fax No. (972) 239-3820 Sheet No. <u>Scale</u> <u>Date</u> <u>Drawn by</u> MGB/JBH JAD May. 2023 064041015 2 OF 2

In a northwesterly direction, with said curve to the left, an arc distance of 253.20 feet to a 5/8-inch iron rod with plastic cap stamped "KHA" Land Records of Collin County, Texas;

THENCE with said east right-of-way line of Country Club Road, the following courses and distances:

set for the southeast corner of a called 0.596 acre tract described in Warranty Deed to Teri Gibson recorded in Volume 5008, Page 215, THENCE departing said east right-of-way line of Country Club Road and with the east line of said 0.596 acre tract, North 0°22'44" West, a

THENCE with the north line of said 0.596 acre tract, South 89°24'47" West, a distance of 246.19 feet to a 1/2-inch iron rod with plastic cap

from said point an aluminum disk in concrete stamped "TxDOT" found bears North 58°30'52" East, a distance of 0.47 feet;

distance of 248.11 feet to a 1/2-inch iron rod with plastic cap stamped "ROOME" found for the northeast corner of said 0.596 acre tract;

40.57'

LOT 26

WILLOW CREEK

ACRES ADDITION

(UNRECORDED)

North 70°22'28" East, a distance of 64.48 feet to a point for corner; North 53°35'03" East, a distance of 89.39 feet to a point for corner;

North 13°59'13" East, a distance of 23.19 feet to a point for corner; North 25°18'32" East, a distance of 81.61 feet to a point for corner;

North 39°38'51" East, a distance of 36.83 feet to a point for corner; North 9°09'06" East, a distance of 158.98 feet to a point for corner;

North 31°49'22" West, a distance of 69.35 feet to a point for corner; North 4°07'35" West, a distance of 40.95 feet to a point for corner; North 29°57'19" East, a distance of 20.66 feet to a point for corner; South 87°30'26" East, a distance of 27.20 feet to a point for corner;

South 73°18'46" East, a distance of 82.66 feet to a point for corner; South 80°43'33" East, a distance of 143.95 feet to a point for corner;

North 76°59'49" East, a distance of 38.76 feet to a point for corner; North 85°42'11" East, a distance of 58.56 feet to a point for corner;

North 71°36'48" East, a distance of 84.66 feet to a point for corner; North 0°44'55" West, a distance of 16.50 feet to a point for corner in the

South 78°08'20" East, a distance of 30.28 feet to a point for corner; South 79°56'29" East, a distance of 100.56 feet to a point for corner;

South 85°09'07" East, a distance of 74.13 feet to a point for corner; South 70°30'56" East, a distance of 51.44 feet to a point for corner;

North 83°40'21" East, a distance of 24.22 feet to a point for corner; North 63°24'35" East, a distance of 148.11 feet to a point for corner;

North 83°33'54" East, a distance of 56.75 feet to a point for corner; South 65°38'59" East, a distance of 73.92 feet to a point for corner;

South 79°16'35" East, a distance of 23.18 feet to a point for corner; South 85°16'24" East, a distance of 115.03 feet to a point for corner;

South 48°09'01" East, a distance of 107.43 feet to a point for corner; North 82°45'48" East, a distance of 142.47 feet to a point for corner;

THENCE along said centerline of Blondy Jhune Road, North 89°42'16" East, a distance of 435.64 feet to a 1/2-inch iron rod with plastic cap stamped "ROOME" found for the northwest corner of a called 0.35 acre tract described in General Warranty Deed to Hendrick Living Trust

THENCE with the west line of said 0.35 acre tract, South 1°16'44" East, a distance of 70.50 feet to a 1/2-inch iron rod with plastic cap stamped

THENCE with the south line of said 0.35 acre tract, South 89°48'44" East, a distance of 207.17 feet to a point in the centerline of a creek, for the

South 29°43'42" West, a distance of 62.16 feet to a point for corner; South 59°29'56" West, a distance of 79.87 feet to a point for corner;

South 76°12'52" West, a distance of 106.89 feet to a point for corner; South 19°28'19" West, a distance of 90.78 feet to a point for corner; South 13°22'02" East, a distance of 196.83 feet to a point for corner; South 20°40'03" West, a distance of 152.80 feet to a point for corner;

South 60°55'10" West, a distance of 123.81 feet to a point for corner; South 89°16'41" West, a distance of 40.57 feet to a point for corner; North 6°59'37" East, a distance of 122.48 feet to a point for corner; North 38°53'24" West, a distance of 69.31 feet to a point for corner;

North 89°39'50" West, a distance of 77.41 feet to a point for corner; South 72°53'26" West, a distance of 65.39 feet to a point for corner; South 33°04'32" West, a distance of 54.69 feet to a point for corner; South 48°26'32" West, a distance of 114.31 feet to a point for corner; South 12°36'07" West, a distance of 52.36 feet to a point for corner; South 22°58'11" West, a distance of 102.29 feet to a point for corner; South 39°49'00" West, a distance of 98.35 feet to a point for corner; South 60°46'48" West, a distance of 56.44 feet to a point for corner; South 11°32'25" West, a distance of 68.03 feet to a point for corner; South 7°07'12" East, a distance of 85.19 feet to a point for corner;

South 41°13'50" West, a distance of 135.00 feet to a point for corner; South 57°23'24" West, a distance of 69.71 feet to a point for corner;

South 7°56'42" West, a distance of 98.64 feet to a point for corner; South 8°21'52" West, a distance of 113.48 feet to a point for corner;

South 55°10'13" West, a distance of 39.88 feet to a point for corner; South 42°37'02" West, a distance of 64.35 feet to a point for corner; North 85°44'45" West, a distance of 122.22 feet to a point for corner; South 78°23'27" West, a distance of 76.25 feet to a point for corner; South 39°48'50" West, a distance of 88.08 feet to a point for corner; South 45°09'00" West, a distance of 40.26 feet to a point for corner; North 55°20'38" West, a distance of 8.33 feet to a point for corner; North 66°33'54" West, a distance of 93.86 feet to a point for corner;

Country Club Road, and being the beginning of a non-tangent curve to the right having a central angle of 2°32'58", a radius of 1864.86 feet,

In a northwesterly direction, with said curve to the right, an arc distance of 82.98 feet to a 5/8-inch iron rod with plastic cap stamped "KHA"

North 0°47'44" West, a distance of 850.21 feet to a 5/8-inch iron rod with plastic cap stamped "KHA" set at the beginning of a tangent curve

to the left having a central angle of 27°45'47", a radius of 522.54 feet, a chord bearing and distance of North 14°40'38" West, 250.73 feet;

North 42°38'00" East, a distance of 24.44 feet to a point for corner; North 77°09'11" East, a distance of 236.79 feet to a point for corner;

102.29'

centerline of said Reid Branch;

South 36°29'07" East, a distance of 73.38 feet to a point for corner;

recorded in Instrument No. 20170829001159590 of said Official Public Records;

THENCE with said centerline of creek, the following courses and distances:

South 55°45'11" West, a distance of 93.84 feet to a point for corner;

a chord bearing and distance of North 2°04'13" West, 82.98 feet;

"ROOME" found for the southwest corner of said 0.35 acre tract:

southeast corner of said 0.35 acre tract;

LOT 27, BLOCK 1

WILLOW CREEK

VOL. I, PG. 319

O.P.R.C.C.T.

ACRES ADDITION

LEGEND

LOT 13, BLOCK E

TARA PHASE TWO

VOL. N, PG. 946

O.P.R.C.C.T.

VOL. = VOLUME

SQ. FT. = SQUARE FEET

IRSC = 5/8" IRON ROD WITH

CAP STAMPED "KHA" SET

IRF = IRON ROD FOUND

COLLIN COUNTY, TEXAS

PG. = PAGE

P.O.B. = POINT OF BEGINNING

INST. NO. = INSTRUMENT NUMBER

IRFC = IRON ROD WITH CAP FOUND

RECORDS OF COLLIN COUNTY, TEXAS

L.R.C.C.T. = LAND RECORDS OF

O.P.R.C.C.T. = OFFICIAL PUBLIC

▲= POINT IN BRANCH/CREEK

(NO MONUMEMENT SET)

stamped "ROOME" found in said east right-of-way line of Country Club Road, for the northwest corner of said 0.596 acre tract;

THENCE with said east right-of-way line of Country Club Road, the following courses and distances:

North 52°55'44" West, a distance of 398.20 feet to a 5/8-inch iron rod with plastic cap stamped "KHA" set at the beginning of a tangent curve to the right having a central angle of 35°38'00", a radius of 432.46 feet, a chord bearing and distance of North 35°06'44" West, 264.64 feet; from said point an aluminum disk in concrete stamped "TxDOT" found bears North 15°13'24" East, a distance of 1.05 feet; In a northwesterly direction, with said curve to the right, an arc distance of 268.96 feet to a 5/8-inch iron rod with plastic cap stamped "KHA" set for corner; from said point an aluminum disk in concrete stamped "TxDOT" found bears North 8°45'11" West, a distance of 1.32 feet; North 17°17'44" West, a distance of 154.12 feet to a 5/8-inch iron rod with plastic cap stamped "KHA" set at the beginning of a tangent curve to the left having a central angle of 4°22'15", a radius of 999.93 feet, a chord bearing and distance of North 19°28'53" West, 76.26 feet; from said point an aluminum disk in concrete stamped "TxDOT" found bears North 14°29'50" West, a distance of 1.24 feet; In a northwesterly direction with said curve to the left, an arc distance of 76.28 feet to the POINT OF BEGINNING and containing 73.4268 acres or 3,198,472 square feet of land.

2. THE CONTRACTOR SHALL COMPLY WITH CITY (OR TOWN) "GENERAL NOTES" FOR CONSTRUCTION, IF EXISTING AND REQUIRED BY THE CITY. FOR INSTANCES WHERE THEY CONFLICT WITH THESE KH GENERAL NOTES. THEN THE MORE RESTRICTIVE SHALL APPLY.

3. THE CONTRACTOR SHALL FURNISH ALL MATERIAL AND LABOR TO CONSTRUCT THE FACILITY AS SHOWN AND DESCRIBED IN THE CONSTRUCTION DOCUMENTS IN ACCORDANCE WITH THE APPROPRIATE AUTHORITIES' SPECIFICATIONS AND REQUIREMENTS.

4. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO BIDDING TO DETERMINE EXISTING CONDITIONS.

5. THE EXISTING CONDITIONS SHOWN ON THESE PLANS WERE PROVIDED BY THE TOPOGRAPHIC SURVEY PREPARED BY THE PROJECT SURVEYOR, AND ARE BASED ON THE BENCHMARKS SHOWN. THE CONTRACTOR SHALL REFERENCE THE SAME BENCHMARKS.

6. THE CONTRACTOR SHALL REVIEW AND VERIFY THE EXISTING TOPOGRAPHIC SURVEY SHOWN ON THE PLANS REPRESENTS EXISTING FIELD CONDITIONS PRIOR TO CONSTRUCTION, AND SHALL REPORT ANY

SURVEY BY A REGISTERED PROFESSIONAL LAND SURVEYOR TO THE OWNER AND ENGINEER FOR REVIEW.

DISCREPANCIES FOUND TO THE OWNER AND ENGINEER IMMEDIATELY. 7. IF THE CONTRACTOR DOES NOT ACCEPT THE EXISTING TOPOGRAPHIC SURVEY AS SHOWN ON THE PLANS,

8. CONTRACTOR SHALL PROVIDE ALL CONSTRUCTION SURVEYING AND STAKING.

9. CONTRACTOR SHALL VERIFY HORIZONTAL AND VERTICAL CONTROL, INCLUDING BENCHMARKS PRIOR TO COMMENCING CONSTRUCTION OR STAKING OF IMPROVEMENTS. PROPERTY LINES AND CORNERS SHALI BE HELD AS THE HORIZONTAL CONTROL.

10. THE CONTRACTOR SHALL REVIEW AND VERIFY ALL DIMENSIONS. ELEVATIONS. AND FIELD CONDITIONS THAT MAY AFFECT CONSTRUCTION. ANY DISCREPANCIES ON THE DRAWINGS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ARCHITECT AND ENGINEER BEFORE COMMENCING WORK. NO FIELD CHANGES OR DEVIATIONS FROM DESIGN ARE TO BE MADE WITHOUT PRIOR APPROVAL OF THE ARCHITECT ENGINEER, AND IF APPLICABLE THE CITY AND OWNER. NO CONSIDERATION WILL BE GIVEN TO CHANGE ORDERS FOR WHICH THE CITY, ENGINEER, AND OWNER WERE NOT CONTACTED PRIOR TO CONSTRUCTION

11.CONTRACTOR SHALL THOROUGHLY CHECK COORDINATION OF CIVIL, LANDSCAPE, MEP, ARCHITECTURAL, AND OTHER PLANS PRIOR TO COMMENCING CONSTRUCTION. OWNER/ENGINEER SHALL BE NOTIFIED OF ANY DISCREPANCY PRIOR TO COMMENCING WITH CONSTRUCTION.

12.IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE VARIOUS UTILITY COMPANIES WHICH MAY HAVE BURIED OR AERIAL UTILITIES WITHIN OR NEAR THE CONSTRUCTION AREA BEFORE COMMENCING WORK TO HAVE THEM LOCATE THEIR EXISTING UTILITIES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE AN ADEQUATE MINIMUM NOTICE TO ALL UTILITY COMPANIES PRIOR TO BEGINNING

13. CONTRACTOR SHALL CALL TEXAS 811 AN ADEQUATE AMOUNT OF TIME PRIOR TO COMMENCING CONSTRUCTION OR ANY EXCAVATION.

14. CONTRACTOR SHALL USE EXTREME CAUTION AS THE SITE CONTAINS VARIOUS KNOWN AND UNKNOWN PUBLIC AND PRIVATE UTILITIES.

15. THE LOCATIONS, ELEVATIONS, DEPTH, AND DIMENSIONS OF EXISTING UTILITIES SHOWN ON THE PLANS WERE OBTAINED FROM AVAILABLE UTILITY COMPANY MAPS AND PLANS, AND ARE CONSIDERED APPROXIMATE AND INCOMPLETE. IT SHALL BE THE CONTRACTORS' RESPONSIBILITY TO VERIFY THE PRESENCE, LOCATION, ELEVATION, DEPTH, AND DIMENSION OF EXISTING UTILITIES SUFFICIENTLY IN ADVANCE OF CONSTRUCTION SO THAT ADJUSTMENTS CAN BE MADE TO PROVIDE ADEQUATE CLEARANCES. THE ENGINEER SHALL BE NOTIFIED WHEN A PROPOSED IMPROVEMENT CONFLICTS WITH AN EXISTING UTILITY.

16. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING ANY ADJUSTMENTS AND RELOCATIONS OF EXISTING UTILITIES THAT CONFLICT WITH THE PROPOSED IMPROVEMENTS. INCLUDING BUT NOT LIMITED TO, ADJUSTING EXISTING MANHOLES TO MATCH PROPOSED GRADE, RELOCATING EXISTING POLES AND GUY WIRES THAT ARE LOCATED IN PROPOSED DRIVEWAYS. ADJUSTING THE HORIZONTAL OR VERTICAL ALIGNMENT OF EXISTING UNDERGROUND UTILITIES TO ACCOMMODATE PROPOSED GRADE OR CROSSING WITH A PROPOSED UTILITY, AND ANY OTHERS THAT MAY BE ENCOUNTERED THAT ARE UNKNOWN AT THIS TIME AND NOT SHOWN ON THESE PLANS.

17. CONTRACTOR SHALL ARRANGE FOR OR PROVIDE, AT ITS EXPENSE, ALL GAS, TELECOMMUNICATIONS, CABLE, OVERHEAD AND UNDERGROUND POWER LINE, AND UTILITY POLE ADJUSTMENTS NEEDED.

18. CONTRACTOR IS RESPONSIBLE FOR COORDINATING INSTALLATION OF FRANCHISE UTILITIES THAT ARE NECESSARY FOR ON-SITE AND OFF-SITE CONSTRUCTION, AND SERVICE TO THE PROPOSED DEVELOPMENT

19. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ALL DAMAGES DUE TO THE CONTRACTORS' FAILURE TO EXACTLY LOCATE AND PRESERVE ALL UTILITIES. THE OWNER OR ENGINEER WILL ASSUME NO LIABILITY FOR ANY DAMAGES SUSTAINED OR COST INCURRED BECAUSE OF THE OPERATIONS IN THE VICINITY OF EXISTING LITH TIES OR STRUCTURES. IF IT IS NECESSARY TO SHORE BRACE, SWING OR RELOCATE A UTILITY. THE UTILITY COMPANY OR DEPARTMENT AFFECTED SHALL BE CONTACTED BY TH CONTRACTOR AND THEIR PERMISSION OBTAINED REGARDING THE METHOD TO USE FOR SUCH WORK.

20.BRACING OF UTILITY POLES MAY BE REQUIRED BY THE UTILITY COMPANIES WHEN TRENCHING OR EXCAVATING IN CLOSE PROXIMITY TO THE POLES. THE COST OF BRACING POLES WILL BE BORNE BY THE 9. CONTRACTOR SHALL PROVIDE ADEQUATE EROSION CONTROL DEVICES NEEDED DUE TO PROJECT CONTRACTOR, WITH NO SEPARATE PAY ITEM FOR THIS WORK. THE COST IS INCIDENTAL TO THE PAY ITEM.

21.CONTRACTOR SHALL USE ALL NECESSARY SAFETY PRECAUTIONS TO AVOID CONTACT WITH OVERHEAD AND UNDERGROUND POWER LINES. CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE LOCAL. STATE. FEDERAL AND UTILITY OWNER REGULATIONS PERTAINING TO WORK SETBACKS FROM POWER LINES.

22. THE CONTRACTOR SHALL BE RESPONSIBLE TO OBTAIN ALL REQUIRED CONSTRUCTION PERMITS, APPROVALS, AND BONDS PRIOR TO CONSTRUCTION.

23. THE CONTRACTOR SHALL HAVE AVAILABLE AT THE JOB SITE AT ALL TIMES A COPY OF THE CONTRACT DOCUMENTS INCLUDING PLANS, GEOTECHNICAL REPORT AND ADDENDA, PROJECT AND CITY SPECIFICATIONS, AND SPECIAL CONDITIONS, COPIES OF ANY REQUIRED CONSTRUCTION PERMITS, EROSION CONTROL PLANS, SWPPP AND INSPECTION REPORTS.

BY THE CONTRACTOR SUFFICIENTLY IN ADVANCE OF CONSTRUCTION OF THAT ITEM, SO THAT NO LESS THAN 10 BUSINESS DAYS FOR REVIEW AND RESPONSE IS AVAILABLE. 25.ALL NECESSARY INSPECTIONS AND/OR CERTIFICATIONS REQUIRED BY CODES, JURISDICTIONAL AGENCIES.

24.ALL SHOP DRAWINGS AND OTHER DOCUMENTS THAT REQUIRE ENGINEER REVIEW SHALL BE SUBMITTED

AND/OR UTILITY SERVICE COMPANIES SHALL BE PERFORMED PRIOR TO USE OF THE FACILITY AND THE FINAL CONNECTION OF SERVICES.

26. CONTRACTOR SHALL ARRANGE FOR REQUIRED CITY INSPECTIONS.

27.CONTRACTOR'S BID PRICE SHALL INCLUDE ALL INSPECTION FEES. 28.ALL SYMBOLS SHOWN ON THESE PLANS (E.G. FIRE HYDRANT, METERS, VALVES, INLETS, ETC....) ARE FOR PRESENTATION PURPOSES ONLY AND ARE NOT TO SCALE. CONTRACTOR SHALL COORDINATE FINAL SIZES AND LOCATIONS WITH APPROPRIATE CITY INSPECTOR.

THE BUILDING. REFERENCE THE BUILDING PLANS (E.G. ARCHITECTURAL, STRUCTURAL, MEP) FOR AREAS WITHIN 5-FEET OF THE BUILDING AND WITHIN THE BUILDING FOOTPRINT.

30.REFER TO ARCHITECTURAL AND STRUCTURAL PLANS FOR ALL FINAL BUILDING DIMENSIONS.

31.THE PROPOSED BUILDING FOOTPRINT(S) SHOWN IN THESE PLANS WAS PROVIDED TO KIMLEY-HORN AND NOT BE THE FINAL CORRECT VERSION BECAUSE THE BUILDING DESIGN WAS ONGOING. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR CONFIRMING THE FINAL CORRECT VERSION OF THE BUILDING FOOTPRINT WITH THE ARCHITECT AND STRUCTURAL ENGINEER PRIOR TO LAYOUT. DIMENSIONS AND/OR COORDINATES SHOWN ON THESE PLANS WERE BASED ON THE ABOVE STATED ARCHITECTURAL FOOTPRINT, AND ARE THEREFORE A PRELIMINARY LOCATION OF THE BUILDING. THE CONTRACTOR IS SOLELY RESPONSIBLE TO VERIFY WHAT PART OF THE BUILDING THE ARCHITECT'S FOOTPRINT REPRESENTS (E.G. SLAB, OUTSIDE WALL, MASONRY LEDGE, ETC) AND TO CONFIRM ITS FINAL POSITION ON THE SITE BASED ON THE FINAL ARCHITECTURAL FOOTPRINT, CIVIL DIMENSION CONTROL PLAN, SURVEY BOUNDARY AND/OR PLAT. ANY DIFFERENCES FOUND SHALL BE REPORTED TO KH IMMEDIATELY.

32.ALL CONSTRUCTION SHALL COMPLY WITH THE PROJECT'S FINAL GEOTECHNICAL REPORT (OR LATEST EDITION), INCLUDING SUBSEQUENT ADDENDA ONLY IF GEOTECH REPORT EXCEEDS CITY STANDARDS.

33.CONTRACTOR IS RESPONSIBLE FOR ALL MATERIALS TESTING AND CERTIFICATION, UNLESS SPECIFIED OTHERWISE BY OWNER. ALL MATERIALS TESTING SHALL BE COORDINATED WITH THE APPROPRIATE CITY INSPECTOR AND COMPLY WITH CITY STANDARD SPECIFICATIONS AND GEOTECHNICAL REPORT. TESTING SHALL BE PERFORMED BY AN APPROVED INDEPENDENT AGENCY FOR TESTING MATERIALS. OWNER SHALL APPROVE THE AGENCY NOMINATED BY THE CONTRACTOR FOR MATERIALS TESTING.

34.ALL COPIES OF MATERIALS TEST RESULTS SHALL BE SENT TO THE OWNER, ENGINEER AND ARCHITECT DIRECTLY FROM THE TESTING AGENCY.

35.IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO SHOW, BY THE STANDARD TESTING PROCEDURES OF 22.CONTRACTOR SHALL FOLLOW GOOD HOUSEKEEPING PRACTICES DURING CONSTRUCTION, ALWAYS THE MATERIALS, THAT THE WORK CONSTRUCTED MEETS THE PROJECT REQUIREMENTS AND CITY

36.DUE TO THE POTENTIAL FOR DIFFERENTIAL SOIL MOVEMENT ADJACENT TO THE BUILDING, THE CONTRACTOR SHALL ADHERE TO GEOTECHNICAL REPORT'S RECOMMENDATION FOR SUBGRADE PREPARATION SPECIFIC TO FLATWORK ADJACENT TO THE PROPOSED BUILDING. THE OWNER AND CONTRACTOR ARE ADVISED TO OBTAIN A GEOTECHNICAL ENGINEER RECOMMENDATION SPECIFIC TO FLATWORK ADJACENT TO THE BUILDING, IF NONE IS CURRENTLY EXISTING.

37.ALL CONTRACTORS MUST CONFINE THEIR ACTIVITIES TO THE WORK AREA. NO ENCROACHMENTS OUTSIDE OF THE WORK AREA WILL BE ALLOWED. ANY DAMAGE RESULTING THEREFROM SHALL BE CONTRACTOR'S

38.THE CONTRACTOR SHALL PROTECT ALL EXISTING STRUCTURES, UTILITIES, MANHOLES, POLES, GUY

WIRES, VALVE COVERS, VAULT LIDS, FIRE HYDRANTS, COMMUNICATION BOXES/PEDESTALS, AND OTHER FACILITIES TO REMAIN AND SHALL REPAIR ANY DAMAGES AT NO COST TO THE OWNER.

39.THE CONTRACTOR SHALL IMMEDIATELY REPAIR OR REPLACE ANY PHYSICAL DAMAGE TO PRIVATE PROPERTY OR PUBLIC IMPROVEMENTS, INCLUDING BUT NOT LIMITED TO: FENCES, WALLS, SIGNS, PAVEMENT, CURBS, UTILITIES, SIDEWALKS, GRASS, TREES, LANDSCAPING, AND IRRIGATION SYSTEMS, ETC.... TO ORIGINAL CONDITION OR BETTER AT NO COST TO THE OWNER.

40.ALL AREAS IN EXISTING RIGHT-OF-WAY DISTURBED BY SITE CONSTRUCTION SHALL BE REPAIRED TO ORIGINAL CONDITION OR BETTER, INCLUDING AS NECESSARY GRADING, LANDSCAPING, CULVERTS, AND

41.THE CONTRACTOR SHALL SALVAGE ALL EXISTING POWER POLES, SIGNS, WATER VALVES, FIRE HYDRANTS, METERS, ETC... THAT ARE TO BE RELOCATED DURING CONSTRUCTION.

42.CONTRACTOR SHALL MAINTAIN ADEQUATE SITE DRAINAGE DURING ALL PHASES OF CONSTRUCTION. INCLUDING MAINTAINING EXISTING DITCHES OR CULVERTS FREE OF OBSTRUCTIONS AT ALL TIMES.

43.THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING AND SUBMITTING A TRENCH SAFETY PLAN, PREPARED BY A PROFESSIONAL ENGINEER IN THE STATE OF TEXAS, TO THE CITY PRIOR TO CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING TRENCH SAFETY REQUIREMENTS IN ACCORDANCE WITH CITY, STATE, AND FEDERAL REQUIREMENTS, INCLUDING OSHA FOR ALL TRENCHES. NO OPEN TRENCHES SHALL BE ALLOWED OVERNIGHT WITHOUT PRIOR WRITTEN APPROVAL OF THE CITY.

44.THE CONTRACTOR SHALL KEEP TRENCHES FREE FROM WATER.

DEVIATIONS OR VARIANCES FROM THE PLANS.

45.SITE SAFETY IS SOLELY THE RESPONSIBILITY OF THE CONTRACTOR.

WITHOUT EXCEPTION, THEN THE CONTRACTOR SHALL SUPPLY AT THEIR OWN EXPENSE, A TOPOGRAPHIC 46.THESE PLANS DO NOT EXTEND TO OR INCLUDE DESIGNS OR SYSTEMS PERTAINING TO THE SAFETY OF THE CONTRACTOR OR ITS EMPLOYEES, AGENTS OR REPRESENTATIVES IN THE PERFORMANCE OF THE WORK. THE ENGINEER'S SEAL HEREON DOES NOT EXTEND TO ANY SUCH SAFETY SYSTEM. THE CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTATION OF ALL REQUIRED SAFETY PROCEDURES AND PROGRAMS.

47.SIGNS RELATED TO SITE OPERATION OR SAFETY ARE NOT INCLUDED IN THESE PLANS.

48.CONTRACTOR OFFICE AND STAGING AREA SHALL BE AGREED ON BY THE OWNER AND CONTRACTOR PRIOR 2. KH DOES NOT WARRANT OR REPRESENT THAT THE PLAN. WHICH WAS PREPARED BASED ON SURVEY AND TO BEGINNING OF CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR ALL PERMITTING REQUIREMENTS FOR THE CONSTRUCTION OFFICE, TRAILER, STORAGE, AND STAGING OPERATIONS AND LOCATIONS. 49.LIGHT POLES, SIGNS, AND OTHER OBSTRUCTIONS SHALL NOT BE PLACED IN ACCESSIBLE ROUTES.

50. ALL SIGNS, PAVEMENT MARKINGS, AND OTHER TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE "TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES".

51.TOP RIM ELEVATIONS OF ALL EXISTING AND PROPOSED MANHOLES SHALL BE COORDINATED WITH TOP OF PAVEMENT OR FINISHED GRADE AND SHALL BE ADJUSTED TO BE FLUSH WITH THE ACTUAL FINISHED GRADE AT THE TIME OF PAVING.

52.CONTRACTOR SHALL ADJUST ALL EXISTING AND PROPOSED VALVES, FIRE HYDRANTS, AND OTHER UTILITY APPURTENANCES TO MATCH ACTUAL FINISHED GRADES AT THE TIME OF PAVING.

AND FIRE MARSHALL TO LEARN OF ANY REQUIREMENTS

CONTACT THE APPROPRIATE CITY OFFICIALS, INCLUDING BUILDING OFFICIAL, ENGINEERING INSPECTOR,

CONTROL PLAN PRIOR TO THE START OF CONSTRUCTION, AND THEN THE IMPLEMENTATION OF THE PLAN. 55.CONTRACTOR SHALL KEEP A NEAT AND ACCURATE RECORD OF CONSTRUCTION, INCLUDING ANY

53.THE CONTRACTOR IS RESPONSIBLE FOR CONSTRUCTION SEQUENCING AND PHASING, AND SHALL

56.THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AS-BUILT PLANS TO THE ENGINEER AND CITY IDENTIFYING ALL DEVIATIONS AND VARIATIONS FROM THESE PLANS MADE DURING CONSTRUCTION.

THE CONTRACTOR SHALL COMPLY WITH ALL LOCAL, STATE, AND FEDERAL EROSION CONTROL AND WATER QUALITY REQUIREMENTS, LAWS, AND ORDINANCES THAT APPLY TO THE CONSTRUCTION SITE LAND

2. CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS OF THE "TCEQ GENERAL PERMIT TO DISCHARGE UNDER THE TEXAS POLLUTANT DISCHARGE ELIMINATION SYSTEM TXR 150000"

3. EROSION CONTROL DEVICES SHOWN ON THE EROSION CONTROL PLAN FOR THE PROJECT SHALL BE INSTALLED PRIOR TO THE START OF LAND DISTURBANCE.

4. ALL EROSION CONTROL DEVICES ARE TO BE INSTALLED IN ACCORDANCE WITH THE APPROVED PLANS AND SPECIFICATIONS FOR THE PROJECT.

5 CONTRACTOR IS SOLELY RESPONSIBLE FOR INSTALLATION IMPLEMENTATION MAINTENANCE AND

EFFECTIVENESS OF ALL EROSION CONTROL DEVICES, BEST MANAGEMENT PRACTICES (BMPS), AND FOR UPDATING THE EROSION CONTROL PLAN DURING CONSTRUCTION AS FIELD CONDITIONS CHANGE. 6. CONTRACTOR SHALL DOCUMENT THE DATES OF INSTALLATION, MAINTENANCE OR MODIFICATION, AND

7. AS STORM SEWER INLETS ARE INSTALLED ON-SITE, TEMPORARY EROSION CONTROL DEVICES SHALL BE INSTALLED AT FACH INLET PER APPROVED DETAILS.

REMOVAL FOR EACH BMP EMPLOYED IN THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) IF

8. THE EROSION CONTROL DEVICES SHALL REMAIN IN PLACE UNTIL THE AREA IT PROTECTS HAS BEEN

10. CONTRACTOR SHALL OBSERVE THE EFFECTIVENESS OF THE EROSION CONTROL DEVICES AND MAKE FIELD ADJUSTMENTS AND MODIFICATIONS AS NEEDED TO PREVENT SEDIMENT FROM LEAVING THE SITE. IF THE EROSION CONTROL DEVICES DO NOT EFFECTIVELY CONTROL EROSION AND PREVENT SEDIMENTATION FROM WASHING OFF THE SITE, THEN THE CONTRACTOR SHALL NOTIFY THE ENGINEER.

11. OFF-SITE SOIL BORROW, SPOIL, AND STORAGE AREAS (IF APPLICABLE) ARE CONSIDERED AS PART OF THE PROJECT SITE AND MUST ALSO COMPLY WITH THE EROSION CONTROL REQUIREMENTS FOR THIS PROJECT. THIS INCLUDES THE INSTALLATION OF BMP'S TO CONTROL EROSION AND SEDIMENTATION AND THE ESTABLISHMENT OF PERMANENT GROUND COVER ON DISTURBED AREAS PRIOR TO FINAL APPROVAL OF THE PROJECT. CONTRACTOR IS RESPONSIBLE FOR MODIFYING THE SWPPP AND EROSION CONTROL PLAN TO INCLUDE BMPS FOR ANY OFF-SITE THAT ARE NOT ANTICIPATED OR SHOWN ON THE EROSION

12. ALL STAGING, STOCKPILES, SPOIL, AND STORAGE SHALL BE LOCATED SUCH THAT THEY WILL NOT ADVERSELY AFFECT STORM WATER QUALITY. PROTECTIVE MEASURES SHALL BE PROVIDED IF NEEDED TO 11. EROSION CONTROL DEVICES SHOWN ON THE EROSION CONTROL PLAN FOR THE PROJECT SHALL BE ACCOMPLISH THIS REQUIREMENT, SUCH AS COVERING OR ENCIRCLING THE AREA WITH AN APPROPRIATE

13. CONTRACTORS SHALL INSPECT ALL EROSION CONTROL DEVICES, BMPS, DISTURBED AREAS, AND VEHICLE ENTRY AND EXIT AREAS WEEKLY AND WITHIN 24 HOURS OF ALL RAINFALL EVENTS OF 0.5 INCHES OR GREATER, AND KEEP A RECORD OF THIS INSPECTION IN THE SWPPP BOOKLET IF APPLICABLE, TO VERIFY THAT THE DEVICES AND EROSION CONTROL PLAN ARE FUNCTIONING PROPERLY.

14. CONTRACTOR SHALL CONSTRUCT A STABILIZED CONSTRUCTION ENTRANCE AT ALL PRIMARY POINTS OF ACCESS IN ACCORDANCE WITH CITY SPECIFICATIONS. CONTRACTOR SHALL ENSURE THAT ALL CONSTRUCTION TRAFFIC USES THE STABILIZED ENTRANCE AT ALL TIMES FOR ALL INGRESS/EGRESS.

15. SITE ENTRY AND EXITS SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT THE TRACKING AND 29.THE SCOPE OF WORK FOR THE CIVIL IMPROVEMENTS SHOWN ON THESE PLANS TERMINATES 5-FEET FROM FLOWING OF SEDIMENT AND DIRT ONTO OFF-SITE ROADWAYS. ALL SEDIMENT AND DIRT FROM THE SITE THAT IS DEPOSITED ONTO AN OFF-SITE ROADWAY SHALL BE REMOVED IMMEDIATELY.

> 16. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING ALL SILT AND DEBRIS FROM THE AFFECTED OFF-SITE ROADWAYS THAT ARE A RESULT OF THE CONSTRUCTION, AS REQUESTED BY OWNER AND CITY. AT A MINIMUM, THIS SHOULD OCCUR ONCE PER DAY FOR THE OFF-SITE ROADWAYS.

ASSOCIATES, INC. (KH) BY THE PROJECT ARCHITECT AT THE TIME THESE PLANS WERE PREPARED. IT MAY 17. WHEN WASHING OF VEHICLES IS REQUIRED TO REMOVE SEDIMENT PRIOR TO EXITING THE SITE, IT SHALL BE DONE IN AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT

> 18. CONTRACTOR SHALL INSTALL A TEMPORARY SEDIMENT BASIN FOR ANY ON-SITE DRAINAGE AREAS THAT 17. TEMPORARY CULVERTS MAY BE REQUIRED IN SOME LOCATIONS TO CONVEY RUN-OFF. ARE GREATER THAN 10 ACRES, PER TCEQ AND CITY STANDARDS. IF NO ENGINEERING DESIGN HAS BEEN PROVIDED FOR A SEDIMENTATION BASIN ON THESE PLANS, THEN THE CONTRACTOR SHALL ARRANGE FOR 18. REFER TO DIMENSION CONTROL PLAN, AND PLAT FOR HORIZONTAL DIMENSIONS. AN APPROPRIATE DESIGN TO BE PROVIDED.

19. ALL FINES IMPOSED FOR SEDIMENT OR DIRT DISCHARGED FROM THE SITE SHALL BE PAID BY THE RESPONSIBLE CONTRACTOR.

20. WHEN SEDIMENT OR DIRT HAS CLOGGED THE CONSTRUCTION ENTRANCE VOID SPACES BETWEEN STONES 20. CONTRACTOR IS RESPONSIBLE FOR ALL SOILS TESTING AND CERTIFICATION, UNLESS SPECIFIED OR DIRT IS BEING TRACKED ONTO A ROADWAY, THE AGGREGATE PAD MUST BE WASHED DOWN OR REPLACED. RUNOFF FROM THE WASH-DOWN OPERATION SHALL NOT BE ALLOWED TO DRAIN DIRECTLY OFF SITE WITHOUT FIRST FLOWING THROUGH ANOTHER BMP TO CONTROL SEDIMENTATION. PERIODIC RE-GRADING OR NEW STONE MAY BE REQUIRED TO MAINTAIN THE EFFECTIVENESS OF THE CONSTRUCTION ENTRANCE.

21.TEMPORARY SEEDING OR OTHER APPROVED STABILIZATION SHALL BE INITIATED WITHIN 14 DAYS OF THE LAST DISTURBANCE OF ANY AREA, UNLESS ADDITIONAL CONSTRUCTION IN THE AREA IS EXPECTED WITHIN 21 DAYS OF THE LAST DISTURBANCE.

CLEANING UP DIRT, LOOSE MATERIAL, AND TRASH AS CONSTRUCTION PROGRESSES.

23.UPON COMPLETION OF FINE GRADING, ALL SURFACES OF DISTURBED AREAS SHALL BE PERMANENTLY STABILIZED. STABILIZATION IS ACHIEVED WHEN THE AREA IS EITHER COVERED BY PERMANENT IMPERVIOUS STRUCTURES, SUCH AS BUILDINGS, SIDEWALK, PAVEMENT, OR A UNIFORM PERENNIAL

24.AT THE CONCLUSION OF THE PROJECT, ALL INLETS, DRAIN PIPE, CHANNELS, DRAINAGEWAYS AND BORROW DITCHES AFFECTED BY THE CONSTRUCTION SHALL BE DREDGED. AND THE SEDIMENT GENERATED BY THE PROJECT SHALL BE REMOVED AND DISPOSED IN ACCORDANCE WITH APPLICABLE

1. CONTRACTOR SHALL COMPLY WITH ALL TCEQ AND EPA STORM WATER POLLUTION PREVENTION

REQUIREMENTS

3. THE CONTRACTOR SHALL ENSURE THAT ALL PRIMARY OPERATORS SUBMIT A NOI TO TCEQ AT LEAS SEVEN DAYS PRIOR TO COMMENCING CONSTRUCTION (IF APPLICABLE), OR IF UTILIZING ELECTRONIC 27. CONTRACTOR SHALL COORDINATE WITH THE UTILITY COMPANIES FOR ANY REQUIRED UTILITY SUBMITTAL PRIOR TO COMMENCING CONSTRUCTION ALL PRIMARY OPERATORS SHALL PROVIDE A COPY OF THE SIGNED NOI TO THE OPERATOR OF ANY MS4 (TYPICALLY THE CITY) RECEIVING DISCHARGE FROM

UNDER THE TEXAS POLLUTANT DISCHARGE ELIMINATION SYSTEM TXR 150000

4. CONTRACTOR SHALL BE RESPONSIBLE FOR THE IMPLEMENTATION OF THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) IF APPLICABLE INCLUDING POSTING SITE NOTICE INSPECTIONS DOCUMENTATION, AND SUBMISSION OF ANY INFORMATION REQUIRED BY THE TCEQ AND EPA (E.G. NOI

5. ALL CONTRACTORS AND SUBCONTRACTORS PROVIDING SERVICES RELATED TO THE SWPPP SHALL SIGN THE REQUIRED CONTRACTOR CERTIFICATION STATEMENT ACKNOWLEDGING THEIR RESPONSIBILITIES AS SPECIFIED IN THE SWPPP

6. A COPY OF THE SWPPP, INCLUDING NOI, SITE NOTICE, CONTRACTOR CERTIFICATIONS, AND ANY REVISIONS, SHALL BE SUBMITTED TO THE CITY BY THE CONTRACTOR AND SHALL BE RETAINED ON-SITE DURING CONSTRUCTION.

7. A NOTICE OF TERMINATION (NOT) SHALL BE SUBMITTED TO TCEQ BY ANY PRIMARY OPERATOR WITHIN 30 DAYS AFTER ALL SOIL DISTURBING ACTIVITIES AT THE SITE HAVE BEEN COMPLETED AND A UNIFORM VEGETATIVE COVER HAS BEEN ESTABLISHED ON ALL UNPAVED AREAS AND AREAS NOT COVERED BY STRUCTURES, A TRANSFER OF OPERATIONAL CONTROL HAS OCCURRED, OR THE OPERATOR HAS OBTAINED ALTERNATIVE AUTHORIZATION UNDER A DIFFERENT PERMIT. A COPY OF THE NOT SHALL BE PROVIDED TO THE OPERATOR OF ANY MS4 RECEIVING DISCHARGE FROM THE SITE

. KH IS NOT RESPONSIBLE FOR THE MEANS AND METHODS EMPLOYED BY THE CONTRACTOR TO IMPLEMENT THIS DEMOLITION PLAN. THIS PRELIMINARY DEMOLITION PLAN SIMPLY INDICATES THE KNOWN OBJECTS ON 34.AFTER PLACEMENT OF SUBGRADE AND PRIOR TO PLACEMENT OF PAVEMENT, CONTRACTOR SHALL TEST THE SUBJECT TRACT THAT ARE TO BE DEMOLISHED AND REMOVED FROM THE SITE.

UTILITY INFORMATION PROVIDED BY OTHERS, SHOWS ALL IMPROVEMENTS AND UTILITIES, THAT THE IMPROVEMENTS AND UTILITIES ARE SHOWN ACCURATELY OR THAT THE UTILITIES SHOWN CAN BE REMOVED. THE CONTRACTOR IS RESPONSIBLE FOR PERFORMING ITS OWN SITE RECONNAISSANCE TO SCOPE ITS WORK AND TO CONFIRM WITH THE OWNERS OF IMPROVEMENTS AND UTILITIES THE ABILITY AND PROCESS FOR THE REMOVAL OF THEIR FACILITIES.

3. THIS PLAN IS INTENDED TO GIVE A GENERAL GUIDE TO THE CONTRACTOR, NOTHING MORE, THE GOAL OF 1. ALL PAVING MATERIALS AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH THESE PLANS. THE CITY THE DEMOLITION IS TO LEAVE THE SITE IN A STATE SUITABLE FOR THE CONSTRUCTION OF THE PROPOSED DEVELOPMENT. REMOVAL OR PRESERVATION OF IMPROVEMENTS, UTILITIES, ETC. TO ACCOMPLISH THIS GOAL ARE THE RESPONSIBILITY OF THE CONTRACTOR.

4. CONTRACTOR IS STRONGLY CAUTIONED TO REVIEW THE FOLLOWING REPORTS DESCRIBING SITE CONDITIONS PRIOR TO BIDDING AND IMPLEMENTING THE DEMOLITION PLAN:

a. ENVIRONMENTAL SITE ASSESSMENT PROVIDED BY THE OWNER b. ASBESTOS BUILDING INSPECTION REPORT(S) PROVIDED BY THE OWNER, GEOTECHNICAL REPORT PROVIDED BY THE OWNER.

d. OTHER REPORTS THAT ARE APPLICABLE AND AVAILABLE

54. CONTRACTOR IS RESPONSIBLE FOR PREPARATION, SUBMITTAL, AND APPROVAL BY THE CITY OF A TRAFFIC 5. CONTRACTOR SHALL CONTACT THE OWNER TO VERIFY WHETHER ADDITIONAL REPORTS OR AMENDMENTS TO THE ABOVE CITED REPORTS HAVE BEEN PREPARED AND TO OBTAIN/REVIEW/AND COMPLY WITH THE

RECOMMENDATION OF SUCH STUDIES PRIOR TO STARTING ANY WORK ON THE SITE. 6. CONTRACTOR SHALL COMPLY WITH ALL LOCAL, STATE, AND FEDERAL REGULATIONS REGARDING THE DEMOLITION OF OBJECTS ON THE SITE AND THE DISPOSAL OF THE DEMOLISHED MATERIALS OFF-SITE. IT IS 5. THE CONTRACTOR'S SOLE RESPONSIBILITY TO REVIEW THE SITE, DETERMINE THE APPLICABLE

7. KH DOES NOT REPRESENT THAT THE REPORTS AND SURVEYS REFERENCED ABOVE ARE ACCURATE, COMPLETE, OR COMPREHENSIVE SHOWING ALL ITEMS THAT WILL NEED TO BE DEMOLISHED AND

REGULATIONS. RECEIVE THE REQUIRED PERMITS AND AUTHORIZATIONS. AND COMPLY

8. SURFACE PAVEMENT INDICATED MAY OVERLAY OTHER HIDDEN STRUCTURES, SUCH AS ADDITIONAL LAYERS OF PAVEMENT, FOUNDATIONS OR WALLS, THAT ARE ALSO TO BE REMOVED.

THE CONTRACTOR AND GRADING SUBCONTRACTOR SHALL VERIEV THE SUITABILITY OF EXISTING AND

PROPOSED SITE CONDITIONS INCLUDING GRADES AND DIMENSIONS BEFORE START OF CONSTRUCTION. THE CIVIL ENGINEER SHALL BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCIES.

2. CONTRACTOR SHALL OBTAIN ANY REQUIRED GRADING PERMITS FROM THE CITY. UNLESS OTHERWISE NOTED, PROPOSED CONTOURS AND SPOT ELEVATIONS SHOWN IN PAVED AREA REFLECT TOP OF PAVEMENT SURFACE. IN LOCATIONS ALONG A CURB LINE, ADD 6-INCHES (OR THE HEIGHT 10. CONTRACTOR SHALL FURNISH AND INSTALL ALL PAVEMENT MARKINGS FOR FIRE LANES, PARKING STALLS,

OF THE CURB) TO THE PAVING GRADE FOR TOP OF CURB ELEVATION. 4. PROPOSED SPOT ELEVATIONS AND CONTOURS OUTSIDE THE PAVEMENT ARE TO TOP OF FINISHED GRADE. OWNER STANDARDS.

ARE TO BE USED IN CASE OF DISCREPANCY. 6. ALL FINISHED GRADES SHALL TRANSITION UNIFORMLY BETWEEN THE FINISHED ELEVATIONS SHOWN.

5. PROPOSED CONTOURS ARE APPROXIMATE. PROPOSED SPOT ELEVATIONS AND DESIGNATED GRADIENT

7. CONTOURS AND SPOT GRADES SHOWN ARE ELEVATIONS OF TOP OF THE FINISHED SURFACE. WHEN PERFORMING THE GRADING OPERATIONS, THE CONTRACTOR SHALL PROVIDE AN APPROPRIATE ELEVATION HOLD-DOWN ALLOWANCE FOR THE THICKNESS OF PAVEMENT, SIDEWALK, TOPSOIL, MULCH, STONE, LANDSCAPING, RIP-RAP AND ALL OTHER SURFACE MATERIALS THAT WILL CONTRIBUTE TO THE TOP OF FINISHED GRADE. FOR EXAMPLE, THE LIMITS OF EARTHWORK IN PAVED AREAS IS THE BOTTOM OF THE PAVEMENT SECTION.

. NO REPRESENTATIONS OF EARTHWORK QUANTITIES OR SITE BALANCE ARE MADE BY THESE PLANS. THE CONTRACTOR SHALL PROVIDE THEIR OWN EARTHWORK CALCULATION TO DETERMINE THEIR CONTRACT QUANTITIES AND COST. ANY SIGNIFICANT VARIANCE FROM A BALANCED SITE SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE CIVIL ENGINEER.

9. ALL GRADING AND EARTHWORK SHALL COMPLY WITH THE PROJECT'S FINAL GEOTECHNICAL REPORT (OR LATEST EDITION). INCLUDING SUBSEQUENT ADDENDA. 10. ALL EXCAVATION IS UNCLASSIFIED AND SHALL INCLUDE ALL MATERIALS ENCOUNTERED. UNUSABLE EXCAVATED MATERIAL AND ALL WASTE RESULTING FROM SITE CLEARING AND GRUBBING SHALL BE

REMOVED FROM THE SITE AND APPROPRIATELY DISPOSED BY THE CONTRACTOR AT NO ADDITIONAL

INSTALLED PRIOR TO THE START OF GRADING. REFERENCE EROSION CONTROL PLAN, DETAILS, GENERAL

NOTES, AND SWPPP FOR ADDITIONAL INFORMATION AND REQUIREMENTS. 12.BEFORE ANY EARTHWORK IS PERFORMED, THE CONTRACTOR SHALL STAKE OUT AND MARK THE LIMITS OF THE PROJECT'S PROPERTY LINE AND SITE IMPROVEMENTS. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY ENGINEERING AND SURVEYING FOR LINE AND GRADE CONTROL POINTS RELATED TO

13. CONTRACTOR TO DISPOSE OF ALL EXCESS EXCAVATION MATERIALS IN A MANNER THAT ADHERES TO LOCAL, STATE AND FEDERAL LAWS AND REGULATIONS. THE CONTRACTOR SHALL KEEP A RECORD OF WHERE EXCESS EXCAVATION WAS DISPOSED, ALONG WITH THE RECEIVING LANDOWNER'S APPROVAL TO

14. CONTRACTOR IS RESPONSIBLE FOR REMOVAL AND REPLACEMENT OF TOPSOIL AT THE COMPLETION OF 3. THE CONTRACTOR SHALL FIELD VERIFY THE SIZE, CONDITION, HORIZONTAL, AND VERTICAL LOCATIONS OF FINE GRADING. CONTRACTOR SHALL REFER TO LANDSCAPE ARCHITECTURE PLANS FOR SPECIFICATIONS

15. CONTRACTOR SHALL MAINTAIN ADEQUATE SITE DRAINAGE DURING ALL PHASES OF CONSTRUCTION, INCLUDING MAINTAINING EXISTING DITCHES OR CULVERTS FREE OF OBSTRUCTIONS AT ALL TIMES.

16.NO EARTHWORK FILL SHALL BE PLACED IN ANY EXISTING DRAINAGE WAY, SWALE, CHANNEL, DITCH, CREEK, OR FLOODPLAIN FOR ANY REASON OR ANY LENGTH OF TIME, UNLESS THESE PLANS SPECIFICALLY INDICATE THIS IS REQUIRED.

APPROVED BY THE GEOTECHNICAL ENGINEER PRIOR TO PLACEMENT

19. THE CONTRACTOR SHALL CLEAR AND GRUB THE SITE AND PLACE, COMPACT, AND CONDITION FILL PER THE PROJECT GEOTECHNICAL ENGINEER'S SPECIFICATIONS. THE FILL MATERIAL TO BE USED SHALL BE

OTHERWISE BY OWNER. ALL SOILS TESTING SHALL BE COORDINATED WITH THE APPROPRIATE CITY 8. ALL PVC TO RCP CONNECTIONS AND ALL STORM PIPE CONNECTIONS ENTERING STRUCTURES OR OTHER INSPECTOR AND SHALL COMPLY WITH CITY STANDARD SPECIFICATIONS AND THE GEOTECHNICAL REPORT. SOILS TESTING SHALL BE PERFORMED BY AN APPROVED INDEPENDENT AGENCY FOR TESTING SOILS. THE OWNER SHALL APPROVE THE AGENCY NOMINATED BY THE CONTRACTOR FOR SOILS TESTING.

21.ALL COPIES OF SOILS TEST RESULTS SHALL BE SENT TO THE OWNER, ENGINEER AND ARCHITECT DIRECTLY FROM THE TESTING AGENCY.

22.IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO SHOW, BY THE STANDARD TESTING PROCEDURES OF THE SOILS, THAT THE WORK CONSTRUCTED MEETS THE PROJECT REQUIREMENTS AND CITY 11.IF CONTRACTOR PROPOSES TO USE HDPE OR PVC IN LIEU OF RCP FOR PRIVATE STORM SEWER,

23. THE SCOPE OF WORK FOR CIVIL IMPROVEMENT SHOWN ON THESE PLANS TERMINATES 5-FEET FROM THE BUILDING. CONTRACTOR SHALL REFER TO THE GEOTECHNICAL REPORT AND STRUCTURAL PLANS AND SPECIFICATIONS FILL, CONDITIONING, AND PREPARATION IN THE BUILDING PAD.

24.DUE TO THE POTENTIAL FOR DIFFERENTIAL SOIL MOVEMENT ADJACENT TO THE BUILDING, THE CONTRACTOR SHALL ADHERE TO GEOTECHNICAL REPORT'S RECOMMENDATION FOR SUBGRADE PREPARATION SPECIFIC TO FLATWORK ADJACENT TO THE PROPOSED BUILDING. THE OWNER AND CONTRACTOR ARE ADVISED TO OBTAIN A GEOTECHNICAL ENGINEER RECOMMENDATION SPECIFIC TO FLATWORK ADJACENT TO THE BUILDING. IF NONE IS CURRENTLY EXISTING.

25.CONTRACTOR SHALL ENSURE THAT SUFFICIENT POSITIVE SLOPE AWAY FROM THE BUILDING PAD IS ACHIEVED FOR ENTIRE PERIMETER OF THE PROPOSED BUILDING(S) DURING GRADING OPERATIONS AND IN 16. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING AND SUBMITTING A TRENCH SAFETY PLAN, PREPARED THE FINAL CONDITION. IF THE CONTRACTOR OBSERVES THAT THIS WILL NOT BE ACHIEVED. THE

CONTRACTOR SHALL CONTACT THE ENGINEER TO REVIEW THE LOCATION.

PRIOR TO COMMENCING THE WORK.

DRAINAGE ARE DISCOVERED.

CIVIL ENGINEER IS OBTAINED.

DETAILS AND SPECIFICATIONS.

REQUIREMENTS AND CITY SPECIFICATIONS.

AND TAS STANDARDS, LATEST EDITION.

11. ALL JOINTS SHALL EXTEND THROUGH THE CURB.

IRRIGATION, AND ARCHITECT) SHALL BE CONSULTED.

CONSTRUCTION DETAILS AND SPECIFICATIONS.

COMPLETE INSTALLATION OF THE STORM SEWER.

PVC SHALL BE WATERTIGHT.

MANUFACTURERS SPECIFICATIONS.

SMOOTH, FLUSH, CONNECTION.

OF THE PAVING WORK.

2. CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS OF THE TCEQ GENERAL PERMIT TO DISCHARGE 26.THE CONTRACTOR SHALL TAKE ALL AVAILABLE PRECAUTIONS TO CONTROL DUST. CONTRACTOR SHALL CONTROL DUST BY SPRINKLING WATER, OR BY OTHER MEANS APPROVED BY THE CITY, AT NO ADDITIONAL 17. THE CONTRACTOR SHALL KEEP TRENCHES FREE FROM WATER.

ANY DISCREPANCIES FOUND IN THE FIELD THAT AFFECT THE GRADING PLAN TO THE CIVIL ENGINEER.

29.CONTRACTOR SHALL FIELD VERIFY ALL PROTECTED TREE LOCATIONS, INDIVIDUAL PROTECTED TREE

30.TREE PROTECTION MEASURES SHALL BE INSTALLED IN ACCORDANCE WITH THE CITY STANDARD TREE

31 CONTRACTOR SHALL REFER TO THE LANDSCAPING AND TREE PRESERVATIONS PLANS FOR ALL

INFORMATION AND DETAILS REGARDING EXISTING TREES TO BE REMOVED AND PRESERVED.

HAS OTHERWISE CONFIRMED IN WRITING THAT ONE IS NOT NEEDED FOR THE TREE(S).

ARCHITECT OF ANY CONFLICTS WITH THE TREE PRESERVATION PLAN BY THE LANDSCAPE ARCHITECT

PROTECTION DETAILS AND THE APPROVED TREE PRESERVATION PLANS BY THE LANDSCAPE ARCHITECT.

32.NO TREE SHALL BE REMOVED UNLESS A TREE REMOVAL PERMIT HAS BEEN ISSUED BY THE CITY, OR CITY

REPRESENTATIVE. EXISTING TREES SHALL BE PRESERVED WHENEVER POSSIBLE AND GRADING IMPACT

RUNOFF. CONTRACTOR SHALL IMMEDIATELY NOTIFY OWNER AND ENGINEER IF ANY AREAS OF POOR

35.CONTRACTOR FIELD ADJUSTMENT OF PROPOSED SPOT GRADES IS ALLOWED, IF THE APPROVAL OF THE

AND COMMONLY ACCEPTED CONSTRUCTION STANDARDS. THE CITY SPECIFICATIONS SHALL GOVERN

2. ALL PAVING AND PAVING SUBGRADE SHALL COMPLY WITH CITY STANDARDS AND DETAILS. IF THESE ARE

DIFFERENT THAN THOSE IN THE GEOTECHNICAL REPORT, THEN THE MORE RESTRICTIVE SHALL BE

3. ALL PUBLIC PAVING AND PAVING SUBGRADE SHALL COMPLY WITH CITY STANDARD CONSTRUCTION

CONTRACTOR IS RESPONSIBLE FOR ALL PAVING AND PAVING SUBGRADE TESTING AND CERTIFICATION,

UNLESS SPECIFIED OTHERWISE BY OWNER. ALL PAVING AND PAVING SUBGRADE TESTING SHALL BE

COORDINATED WITH THE APPROPRIATE CITY INSPECTOR. TESTING SHALL BE PERFORMED BY AN

AGENCY NOMINATED BY THE CONTRACTOR FOR PAVING AND PAVING SUBGRADE TESTING.

THE PAVING AND PAVING SUBGRADE, THAT THE WORK CONSTRUCTED MEETS THE PROJECT

6. DUE TO THE POTENTIAL FOR DIFFERENTIAL SOIL MOVEMENT ADJACENT TO THE BUILDING, THE

FLATWORK ADJACENT TO THE BUILDING, IF NONE IS CURRENTLY EXISTING.

12. THE MINIMUM LENGTH OF OFFSET JOINTS AT RADIUS POINTS SHALL BE 2 FEET.

15. FIRE LANES SHALL BE MARKED AND LABELED AS A FIRELANE PER CITY STANDARDS.

ON THE CITY STANDARD CONSTRUCTION DETAIL AND SPECIFICATIONS.

CONTRACTOR SHALL ADHERE TO GEOTECHNICAL REPORT'S RECOMMENDATION FOR SUBGRADE

PREPARATION SPECIFIC TO FLATWORK ADJACENT TO THE PROPOSED BUILDING. THE OWNER AND

CONTRACTOR ARE ADVISED TO OBTAIN A GEOTECHNICAL ENGINEER RECOMMENDATION SPECIFIC TO

7. ALL RAMPS ALONG PUBLIC STREETS AND IN THE PUBLIC RIGHT-OF-WAY SHALL BE CONSTRUCTED BASED

8. ALL ACCESSIBLE RAMPS, CURB RAMPS, STRIPING, AND PAVEMENT MARKINGS SHALL CONFORM TO ADA

HANDICAPPED PARKING SYMBOLS, AND MISCELLANEOUS STRIPING WITHIN PARKING LOT AND AROUND

BUILDING AS SHOWN ON THE PLANS. ALL PAINT AND PAVEMENT MARKINGS SHALL ADHERE TO CITY AND

9. CONTRACTOR SHALL CONSTRUCT PROPOSED PAVEMENT TO MATCH EXISTING PAVEMENT WITH A

14. ALL SAWCUTS SHALL BE FULL DEPTH FOR PAVEMENT REMOVAL AND CONNECTION TO EXISTING

SHALL BE ORIENTED SO THEY ARE READILY VISIBLE TO THE ONCOMING TRAFFIC FOR WHICH THEY ARE

17. CONTRACTOR IS RESPONSIBLE FOR INSTALLING NECESSARY CONDUIT FOR LIGHTING, IRRIGATION, ETC.

18.BEFORE PLACING PAVEMENT, CONTRACTOR SHALL VERIFY THAT SUITABLE ACCESSIBLE PEDESTRIAN

PERCENT. IN NO CASE SHALL LONGITUDINAL SIDEWALK SLOPE EXCEED 5.0 PERCENT. ACCESSIBLE

PARKING SPACES AND ACCESS AISLES SHALL NOT EXCEED 2.0 PERCENT SLOPE IN ANY DIRECTION.

ENCOUNTERED. NO CONTRACTOR CHANGE ORDERS WILL BE ACCEPTED FOR ADA AND TAS SLOPE

CONTRACTOR SHALL CONTACT ENGINEER PRIOR TO PAVING IF ANY EXCESSIVE SLOPES ARE

ALL STORM SEWER MATERIALS AND CONSTRUCTION SHALL COMPLY WITH CITY STANDARD

ALL EXISTING STORM SEWER FACILITIES THAT ARE TO BE CONNECTED TO, PRIOR TO START OF

CONSTRUCTION OF ANY STORM SEWER, AND SHALL NOTIFY THE ENGINEER OF ANY CONFLICTS

5. FLOW LINE, TOP-OF-CURB, RIM, THROAT, AND GRATE ELEVATIONS OF PROPOSED INLETS SHALL BE

6. ALL PUBLIC STORM SEWER CONSTRUCTION, PIPE, STRUCTURES, AND FITTINGS SHALL ADHERE TO CITY

7. ALL PRIVATE STORM SEWER CONSTRUCTION, PIPE, STRUCTURES, AND FITTINGS SHALL ADHERE TO THE

APPLICABLE PLUMBING CODE. CONTRACTOR SHALL ARRANGE FOR REQUIRED CITY INSPECTIONS.

STORM PIPES SHALL HAVE A CONCRETE COLLAR AND BE GROUTED TO ASSURE THE CONNECTION IS

9. ALL PUBLIC STORM SEWER LINES SHALL BE MINIMUM CLASS III RCP. PRIVATE STORM SEWER LINES

ENGINEER/INSPECTOR FOR APPROVAL PRIOR TO ORDERING THE MATERIAL. ANY PROPOSED HDPE AND

13. EMBEDMENT FOR ALL STORM SEWER LINES, PUBLIC OR PRIVATE, SHALL BE PER CITY STANDARD DETAILS.

18-INCHES AND GREATER SHALL BE CLASS III RCP OR OTHER APPROVED MATERIAL.

10. WHERE COVER EXCEEDS 20-FEET OR IS LESS THAN 2-FEET, CLASS IV RCP SHALL BE USED.

12. THE CONTRACTOR SHALL PROVIDE CONSTRUCTION SURVEYING FOR ALL STORM SEWER LINES.

15.USE 4 FOOT JOINTS WITH BEVELED ENDS IF RADIUS OF STORM SEWER IS LESS THAN 100 FEET.

BY A PROFESSIONAL ENGINEER IN THE STATE OF TEXAS, TO THE CITY PRIOR TO CONSTRUCTION.

14. ALL WYE CONNECTIONS AND PIPE BENDS ARE TO BE PREFABRICATED AND INSTALLED PER

CONTRACTOR SHALL SUBMIT TECHNICAL DATA TO THE OWNER, ENGINEER AND CITY

PUBLIC WORKS STANDARD DETAILS AND SPECIFICATIONS. CONTRACTOR SHALL ARRANGE FOR REQUIRED

VERIFIED WITH THE GRADING PLAN AND FIELD CONDITIONS PRIOR TO THEIR INSTALLATION.

HORIZONTAL AND VERTICAL LOCATION OF CURB INLETS AND GRATE INLETS AND ALL UTILITIES CROSSING

4. THE CONTRACTOR SHALL VERIFY AND COORDINATE ALL DIMENSIONS SHOWN, INCLUDING THE

9. CONTRACTOR SHALL TAKE FIELD SLOPE MEASUREMENTS ON FINISHED SUBGRADE AND FORM BOARDS PRIOR TO PLACING PAVEMENT TO VERIFY THAT ADA/TAS SLOPE REQUIREMENTS ARE PROVIDED.

PARKING SPACES, ACCESS AISLES, AND ACCESSIBLE ROUTES. IN NO CASE SHALL AN ACCESSIBLE RAMP

SLOPE EXCEED 1 VERTICAL TO 12 HORIZONTAL IN NO CASE SHALL SIDEWALK CROSS SLOPE EXCEED 2.0.

PRIOR TO PLACEMENT OF PAVEMENT. ALL CONSTRUCTION DOCUMENTS (CIVIL, MEP, LANDSCAPE,

APPROVED INDEPENDENT AGENCY FOR TESTING PAVING AND SUBGRADE. OWNER SHALL APPROVE THE

IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO SHOW. BY THE STANDARD TESTING PROCEDURES OF

EXCEPT WHERE MORE RESTRICTIVE MEASURES ARE OUTLINED.

CITY, STATE, AND FEDERAL REQUIREMENTS, INCLUDING OSHA FOR ALL TRENCHES. NO OPEN TRENCHES SHALL BE ALLOWED OVERNIGHT WITHOUT PRIOR WRITTEN APPROVAL OF THE CITY.

ALL WATER AND WASTEWATER MATERIALS AND CONSTRUCTION SHALL COMPLY WITH CITY STANDARD ADJUSTMENTS AND/OR RELOCATIONS NEEDED FOR GRADING OPERATIONS AND TO ACCOMMODATE CONSTRUCTION DETAILS AND SPECIFICATIONS PROPOSED GRADE, INCLUDING THE UNKNOWN UTILITIES NOT SHOWN ON THESE PLANS. CONTRACTOR

SHALL REFER TO THE GENERAL NOTES "OVERALL" SECTION THESE PLANS FOR ADDITIONAL INFORMATION. 2. CONTRACTOR SHALL FIELD VERIFY THE SIZE, CONDITION, HORIZONTAL, AND VERTICAL LOCATIONS OF ALL EXISTING WATER FACILITIES THAT ARE TO BE CONNECTED TO, PRIOR TO START OF CONSTRUCTION OF 28.EXISTING TREE LOCATIONS SHOWN ON THESE PLANS ARE APPROXIMATE. CONTRACTOR SHALL REPORT ANY WATER OR WASTEWATER CONSTRUCTION, AND SHALL NOTIFY THE ENGINEER OF ANY CONFLICTS

3. CONTRACTOR SHALL VERIFY AND COORDINATE ALL DIMENSIONS SHOWN, INCLUDING THE HORIZONTAL AND VERTICAL LOCATION OF ALL UTILITY SERVICES ENTERING THE BUILDING. CRITICAL ROOT ZONES, AND PROPOSED SITE GRADING, AND NOTIFY THE CIVIL ENGINEER AND LANDSCAPE

CONTRACTOR IS RESPONSIBLE FOR MAINTAINING TRENCH SAFETY REQUIREMENTS IN ACCORDANCE WITH

4. THE CONTRACTOR SHALL FIELD VERIFY THE ELEVATION OF ALL UTILITY CROSSINGS PRIOR TO THE INSTALLATION OF ANY PIPE.

5. THE SITE UTILITY CONTRACTOR SHALL PROVIDE ALL MATERIALS AND APPURTENANCES NECESSARY FOR COMPLETE INSTALLATION OF THE WATER AND WASTEWATER IMPROVEMENTS.

6. ALL PUBLIC WATER CONSTRUCTION, PIPE, STRUCTURES, AND FITTINGS SHALL ADHERE TO CITY PUBLIC

WORKS STANDARD DETAILS AND SPECIFICATIONS. CONTRACTOR SHALL ARRANGE FOR REQUIRED CITY

7. ALL PRIVATE WATER CONSTRUCTION, PIPE, STRUCTURES, AND FITTINGS SHALL ADHERE TO THE 33.NO TREE SHALL BE REMOVED OR DAMAGED WITHOUT PRIOR AUTHORIZATION OF THE OWNER OR OWNER'S APPLICABLE PLUMBING CODE. CONTRACTOR SHALL ARRANGE FOR REQUIRED CITY INSPECTIONS

8. FIRE SPRINKLER LINES SHALL BE DESIGNED AND INSTALLED BY A LICENSED FIRE SPRINKLER CONTRACTOR, AND COMPLY TO THE APPLICABLE CODES AND INSPECTIONS REQUIRED. THESE PLANS WERE PREPARED WITHOUT THE BENEFIT OF THE FIRE SPRINKLER DESIGN. CONTRACTOR SHALL NOTIFY AND OBSERVE PAVEMENT AREAS FOR EVIDENCE OF PONDING AND INADEQUATE SLOPE FOR DRAINAGE. THE ENGINEER IF ANY DISCREPANCIES. ALL AREAS SHALL ADEQUATELY DRAIN TOWARDS THE INTENDED STRUCTURE TO CONVEY STORMWATER

9. EMBEDMENT FOR ALL WATER LINES, PUBLIC OR PRIVATE, SHALL BE PER CITY STANDARD DETAILS.

10 CONTRACTOR SHALL TAKE REQUIRED SANITARY PRECAUTIONS FOLLOWING ANY CITY TOEG, AND AWWA STANDARDS, TO KEEP WATER PIPE AND FITTINGS CLEAN AND CAPPED AT TIMES WHEN INSTALLATION IS NOT IN PROGRESS.

11. CONTRACTOR SHALL PROVIDE CONSTRUCTION SURVEYING FOR ALL WATER LINES.

STANDARD DETAILS AND SPECIFICATIONS, THE FINAL GEOTECHNICAL REPORT AND ALL ISSUED ADDENDA. 12. ALL WATER SERVICES SHALL TERMINATE 5-FEET OUTSIDE THE BUILDING, UNLESS NOTED OTHERWISE. 13. CONTRACTOR SHALL COMPLY WITH CITY REQUIREMENTS FOR WATER SERVICE DISRUPTIONS AND THE AMOUNT OF PRIOR NOTICE THAT IS REQUIRED, AND SHALL COORDINATE DIRECTLY WITH THE APPROPRIATE CITY DEPARTMENT.

14. CONTRACTOR SHALL SEQUENCE WATER CONSTRUCTION TO AVOID INTERRUPTION OF SERVICE TO

15. CONTRACTOR SHALL MAINTAIN WATER SERVICE TO ALL CUSTOMERS THROUGHOUT CONSTRUCTION (IF NECESSARY, BY USE OF TEMPORARY METHODS APPROVED BY THE CITY AND OWNER). THIS WORK SHALL BE CONSIDERED SUBSIDIARY TO THE PROJECT AND NO ADDITIONAL COMPENSATION SHALL BE ALLOWED.

16. THE CONTRACTOR IS RESPONSIBLE TO PROTECT ALL WATER LINES CROSSING THE PROJECT. THE CONTRACTOR SHALL REPAIR ALL DAMAGED LINES IMMEDIATELY. ALL REPAIRS OF EXISTING WATER MAINS. WATER SERVICES, SEWER MAINS, AND SANITARY SEWER SERVICES ARE SUBSIDIARY TO THE WORK, AND NO ADDITIONAL COMPENSATION SHALL BE ALLOWED.

17. VALVE ADJUSTMENTS SHALL BE CONSTRUCTED SUCH THAT THE COVERS ARE AT FINISHED SURFACE GRADE OF THE PROPOSED PAVEMENT

18. THE ENDS OF ALL EXISTING WATER MAINS THAT ARE CUT, BUT NOT REMOVED, SHALL BE PLUGGED AND ABANDONED IN PLACE. THIS WORK SHALL BE CONSIDERED AS A SUBSIDIARY COST TO THE PROJECT AND NO ADDITIONAL COMPENSATION SHALL BE ALLOWED.

19. ALL FIRE HYDRANTS, VALVES, TEES, BENDS, WYES, REDUCERS, FITTINGS, AND ENDS SHALL BE MECHANICALLY RESTRAINED AND/OR THRUST BLOCKED TO CITY STANDARDS.

20.ALL WATER SHALL BE TESTED IN ACCORDANCE WITH THE CITY, AWWA, AND TCEQ STANDARDS AND SPECIFICATIONS. AT A MINIMUM, THIS SHALL CONSIST OF THE FOLLOWING: ALL WATERLINES SHALL BE HYDROSTATICALLY TESTED AND CHLORINATED BEFORE BEING PLACED INTO

24. CONTRACTOR SHALL INSTALL DETECTABLE WIRING OR MARKING TAPE A MINIMUM OF 12" ABOVE WATER LINES. MARKER DECALS SHALL BE LABELED "CAUTION - WATER LINE". DETECTABLE WIRING AND MARKING TAPE SHALL COMPLY WITH CITY STANDARDS, AND SHALL BE INCLUDED IN THE COST OF THE WATER PIPE.

SERVICE. CONTRACTOR SHALL COORDINATE WITH THE CITY FOR THEIR REQUIRED PROCEDURES AND

25 DUCTILE IRON PIPE SHALL BE PROTECTED FROM CORROSION BY A LOW-DENSITY POLYETHYLENE LINER. WRAP THAT IS AT LEAST A SINGLE LAYER OF 8-MIL. ALL DUCTILE IRON JOINTS SHALL BE BONDED.

26.WATERLINES SHALL BE INSTALLED AT NO LESS THAN THE MINIMUM COVER REQUIRED BY THE CITY B. CONTRACTOR SHALL SUBMIT A JOINTING PLAN TO THE ENGINEER AND OWNER PRIOR TO BEGINNING ANY 27.CONTRACTOR SHALL PROVIDE CLEAN-OUTS FOR PRIVATE SANITARY SEWER LINES AT ALL CHANGES IN DIRECTION AND 100-FOOT INTERVALS, OR AS REQUIRED BY THE APPLICABLE PLUMBING CODE. CLEAN-OUTS REQUIRED IN PAVEMENT OR SIDEWALKS SHALL HAVE CAST IRON COVERS FLUSH WITH FINISHED GRADE.

28.CONTRACTOR SHALL PROVIDE BACKWATER VALVES FOR PLUMBING FIXTURES AS REQUIRED BY THE APPLICABLE PLUMBING CODE (E.G. FLOOR ELEVATION OF FIXTURE UNIT IS BELOW THE ELEVATION OF THE MANHOLE COVER OF THE NEXT UPSTREAM MANHOLE IN THE PUBLIC SEWER). CONTRACTOR SHALL 16.UNLESS THE PLANS SPECIFICALLY DICTATE TO THE CONTRARY, ON-SITE AND OTHER DIRECTIONAL SIGNS REVIEW BOTH MEP AND CIVIL PLANS TO CONFIRM WHERE THESE ARE REQUIRED.

972-442-5405

29.THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING AND SUBMITTING A TRENCH SAFETY PLAN, PREPARED BY A PROFESSIONAL ENGINEER IN THE STATE OF TEXAS, TO THE CITY PRIOR TO CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING TRENCH SAFETY REQUIREMENTS IN ACCORDANCE WITH CITY, STATE, AND FEDERAL REQUIREMENTS, INCLUDING OSHA FOR ALL TRENCHES. NO OPEN TRENCHES SHALL BE ALLOWED OVERNIGHT WITHOUT PRIOR WRITTEN APPROVAL OF THE CITY.

30.THE CONTRACTOR SHALL KEEP TRENCHES FREE FROM WATER. ROUTES (PER ADA, TAS, AND FHA) EXIST TO AND FROM EVERY DOOR AND ALONG SIDEWALKS, ACCESSIBLE

SHALL ALSO COMPLY WITH TCEQ REGULATIONS.

RECORD DRAWING EPORTED BY THE CONTRACTOR TO KIMLEY-ND ASSOCIATES, INC. AND CONSIDERED TO B IIFICANT. THIS DRAWING IS NOT GUARAN TO BE "AS BUILT" BUT IS BASED ON THE INFORMATION MADE AVAILABLE.

UTILITY CONTACTS NORTH TEXAS MUNICIPAL

ATMOS ENERGY

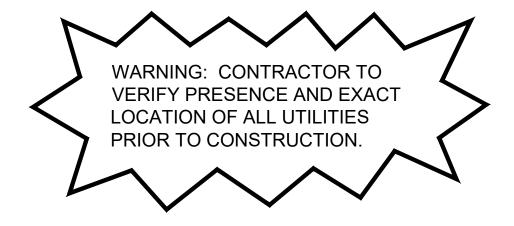
CONTACT: DAVID COKER

WATER DISTRICT THE SITE UTILITY CONTRACTOR SHALL PROVIDE ALL MATERIALS AND APPURTENANCES NECESSARY FOR GRAYSON COLLIN ELECTRIC COOPERATIVE CONTACT: MICHAEL LAUER 903-482-7183

NOTE PUBLIC IMPROVEMENTS WITHIN THE R.O.W. SHALL ADHERE TO THE CITY GENERAL NOTES WHEN IN CONTRADICTION TO PRIVATE NOTES THROUGHOUT THE PLAN SET.

ALL RESPONSIBILITY FOR ADEQUACY OF DESIGN REMAINS WITH THE DESIGN ENGINEER. CITY OF LUCAS, IN REVIEWING AND RELEASING PLANS FOR CONSTRUCTION ASSUMES NO RESPONSIBILITY FOR ADEQUACY OR ACCURACY OF DESIGN.

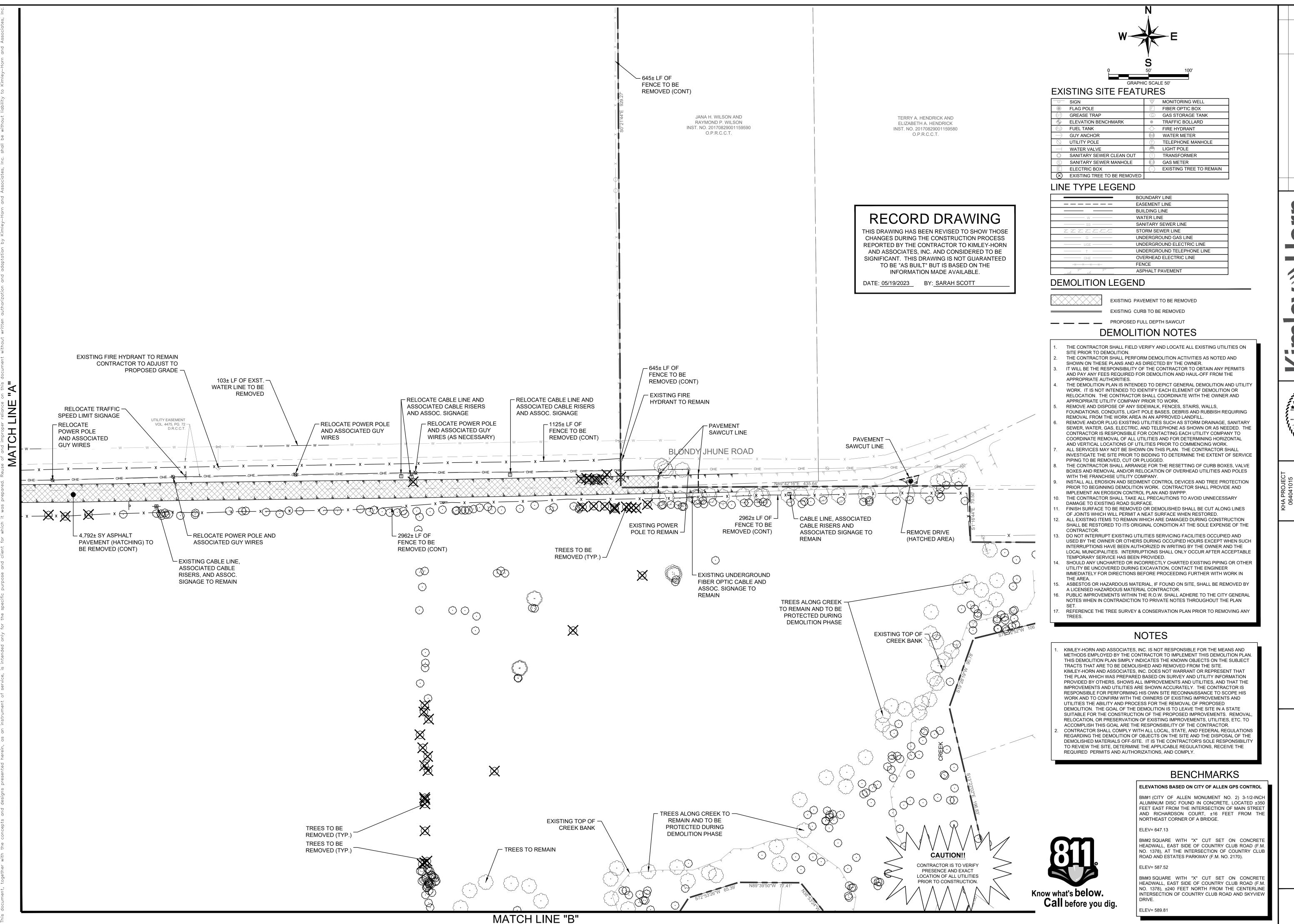
GEOTECHNICAL REPORT REPORT NO. G181528





SARAH F. SCOTI

113285



MLEY-HORN AND ASSOCIATES, INC.
L ROAD, SUITE 700, DALLAS, TX 75240
PHONE: 972-770-1300
WWW.KIMLEY-HORN.COM

SARAH E. SCOTT

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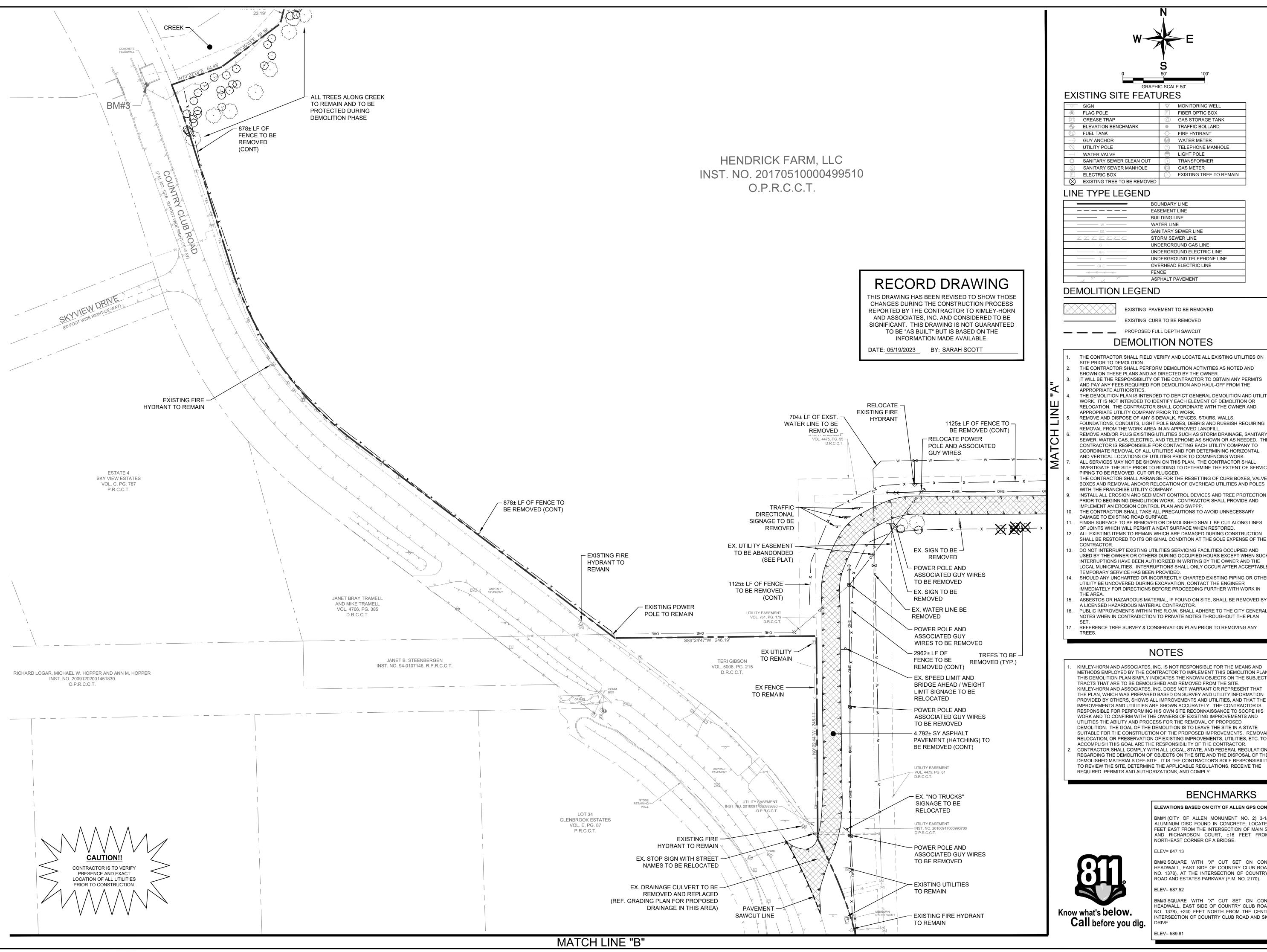
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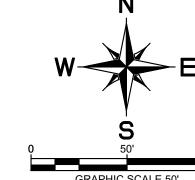
JANUARY 2022
SCALE: AS SHOWN
DESIGNED BY: CRA
DRAWN BY: MSM
CUECKED BX: OTO

(1 OF 3)

DEMOLIT

CITY OF LUCAS COLLIN COUNTY, TEXAS





EXISTING SITE FEATURES

	SIGN	\bigcirc	MONITORING WELL
	FLAG POLE	F	FIBER OPTIC BOX
GT	GREASE TRAP	G	GAS STORAGE TANK
•	ELEVATION BENCHMARK	•	TRAFFIC BOLLARD
EÙ	FUEL TANK	ϕ	FIRE HYDRANT
\rightarrow	GUY ANCHOR	W	WATER METER
Ø	UTILITY POLE	1	TELEPHONE MANHOLE
-	WATER VALVE		LIGHT POLE
	SANITARY SEWER CLEAN OUT		TRANSFORMER
S	SANITARY SEWER MANHOLE	G	GAS METER
E	ELECTRIC BOX	0	EXISTING TREE TO REMAIN
\sim	•		•

LINE TYPE LEGEND

	BOUNDARY LINE
	EASEMENT LINE
	BUILDING LINE
w	WATER LINE
ss	SANITARY SEWER LINE
ZZZZZZZ	STORM SEWER LINE
——— G ———	UNDERGROUND GAS LINE
UGE	UNDERGROUND ELECTRIC LINE
— т —	UNDERGROUND TELEPHONE LINE
OHE	OVERHEAD ELECTRIC LINE
-X X X X	FENCE
	ASPHALT PAVEMENT

DEMOLITION LEGEND

EXISTING PAVEMENT TO BE REMOVED

EXISTING CURB TO BE REMOVED

DEMOLITION NOTES

THE CONTRACTOR SHALL FIELD VERIFY AND LOCATE ALL EXISTING UTILITIES ON SITE PRIOR TO DEMOLITION. THE CONTRACTOR SHALL PERFORM DEMOLITION ACTIVITIES AS NOTED AND SHOWN ON THESE PLANS AND AS DIRECTED BY THE OWNER. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN ANY PERMITS AND PAY ANY FEES REQUIRED FOR DEMOLITION AND HAUL-OFF FROM THE

THE DEMOLITION PLAN IS INTENDED TO DEPICT GENERAL DEMOLITION AND UTILITY WORK. IT IS NOT INTENDED TO IDENTIFY EACH ELEMENT OF DEMOLITION OR RELOCATION. THE CONTRACTOR SHALL COORDINATE WITH THE OWNER AND APPROPRIATE UTILITY COMPANY PRIOR TO WORK. REMOVE AND DISPOSE OF ANY SIDEWALK, FENCES, STAIRS, WALLS,

FOUNDATIONS, CONDUITS, LIGHT POLE BASES, DEBRIS AND RUBBISH REQUIRING REMOVAL FROM THE WORK AREA IN AN APPROVED LANDFILL. REMOVE AND/OR PLUG EXISTING UTILITIES SUCH AS STORM DRAINAGE, SANITARY SEWER, WATER, GAS, ELECTRIC, AND TELEPHONE AS SHOWN OR AS NEEDED. THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING EACH UTILITY COMPANY TO COORDINATE REMOVAL OF ALL UTILITIES AND FOR DETERMINING HORIZONTAL AND VERTICAL LOCATIONS OF UTILITIES PRIOR TO COMMENCING WORK. ALL SERVICES MAY NOT BE SHOWN ON THIS PLAN. THE CONTRACTOR SHALL INVESTIGATE THE SITE PRIOR TO BIDDING TO DETERMINE THE EXTENT OF SERVICE PIPING TO BE REMOVED, CUT OR PLUGGED. THE CONTRACTOR SHALL ARRANGE FOR THE RESETTING OF CURB BOXES, VALVE

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FINISH SURFACE TO BE REMOVED OR DEMOLISHED SHALL BE CUT ALONG LINES OF JOINTS WHICH WILL PERMIT A NEAT SURFACE WHEN RESTORED. ALL EXISTING ITEMS TO REMAIN WHICH ARE DAMAGED DURING CONSTRUCTION SHALL BE RESTORED TO ITS ORIGINAL CONDITION AT THE SOLE EXPENSE OF THE DO NOT INTERRUPT EXISTING UTILITIES SERVICING FACILITIES OCCUPIED AND USED BY THE OWNER OR OTHERS DURING OCCUPIED HOURS EXCEPT WHEN SUCH

INTERRUPTIONS HAVE BEEN AUTHORIZED IN WRITING BY THE OWNER AND THE LOCAL MUNICIPALITIES. INTERRUPTIONS SHALL ONLY OCCUR AFTER ACCEPTABLE TEMPORARY SERVICE HAS BEEN PROVIDED. SHOULD ANY UNCHARTED OR INCORRECTLY CHARTED EXISTING PIPING OR OTHER

UTILITY BE UNCOVERED DURING EXCAVATION, CONTACT THE ENGINEER ${\tt IMMEDIATELY} \ {\tt FOR} \ {\tt DIRECTIONS} \ {\tt BEFORE} \ {\tt PROCEEDING} \ {\tt FURTHER} \ {\tt WITH} \ {\tt WORK} \ {\tt IN}$ ASBESTOS OR HAZARDOUS MATERIAL, IF FOUND ON SITE, SHALL BE REMOVED BY A LICENSED HAZARDOUS MATERIAL CONTRACTOR.

NOTES

NOTES WHEN IN CONTRADICTION TO PRIVATE NOTES THROUGHOUT THE PLAN

KIMLEY-HORN AND ASSOCIATES, INC. IS NOT RESPONSIBLE FOR THE MEANS AND METHODS EMPLOYED BY THE CONTRACTOR TO IMPLEMENT THIS DEMOLITION PLAN THIS DEMOLITION PLAN SIMPLY INDICATES THE KNOWN OBJECTS ON THE SUBJECT TRACTS THAT ARE TO BE DEMOLISHED AND REMOVED FROM THE SITE. KIMLEY-HORN AND ASSOCIATES, INC. DOES NOT WARRANT OR REPRESENT THAT THE PLAN, WHICH WAS PREPARED BASED ON SURVEY AND UTILITY INFORMATION PROVIDED BY OTHERS, SHOWS ALL IMPROVEMENTS AND UTILITIES, AND THAT THE IMPROVEMENTS AND UTILITIES ARE SHOWN ACCURATELY. THE CONTRACTOR IS RESPONSIBLE FOR PERFORMING HIS OWN SITE RECONNAISSANCE TO SCOPE HIS WORK AND TO CONFIRM WITH THE OWNERS OF EXISTING IMPROVEMENTS AND UTILITIES THE ABILITY AND PROCESS FOR THE REMOVAL OF PROPOSED DEMOLITION. THE GOAL OF THE DEMOLITION IS TO LEAVE THE SITE IN A STATE SUITABLE FOR THE CONSTRUCTION OF THE PROPOSED IMPROVEMENTS. REMOVAL RELOCATION, OR PRESERVATION OF EXISTING IMPROVEMENTS, UTILITIES, ETC. TO ACCOMPLISH THIS GOAL ARE THE RESPONSIBILITY OF THE CONTRACTOR. CONTRACTOR SHALL COMPLY WITH ALL LOCAL, STATE, AND FEDERAL REGULATIONS REGARDING THE DEMOLITION OF OBJECTS ON THE SITE AND THE DISPOSAL OF THE DEMOLISHED MATERIALS OFF-SITE. IT IS THE CONTRACTOR'S SOLE RESPONSIBILIT' TO REVIEW THE SITE, DETERMINE THE APPLICABLE REGULATIONS, RECEIVE THE REQUIRED PERMITS AND AUTHORIZATIONS, AND COMPLY.

BENCHMARKS

ELEVATIONS BASED ON CITY OF ALLEN GPS CONTROL BM#1 (CITY OF ALLEN MONUMENT NO. 2) 3-1/2-INCH ALUMINUM DISC FOUND IN CONCRETE, LOCATED ±350 FEET EAST FROM THE INTERSECTION OF MAIN STREET AND RICHARDSON COURT, ±16 FEET FROM THE NORTHEAST CORNER OF A BRIDGE.

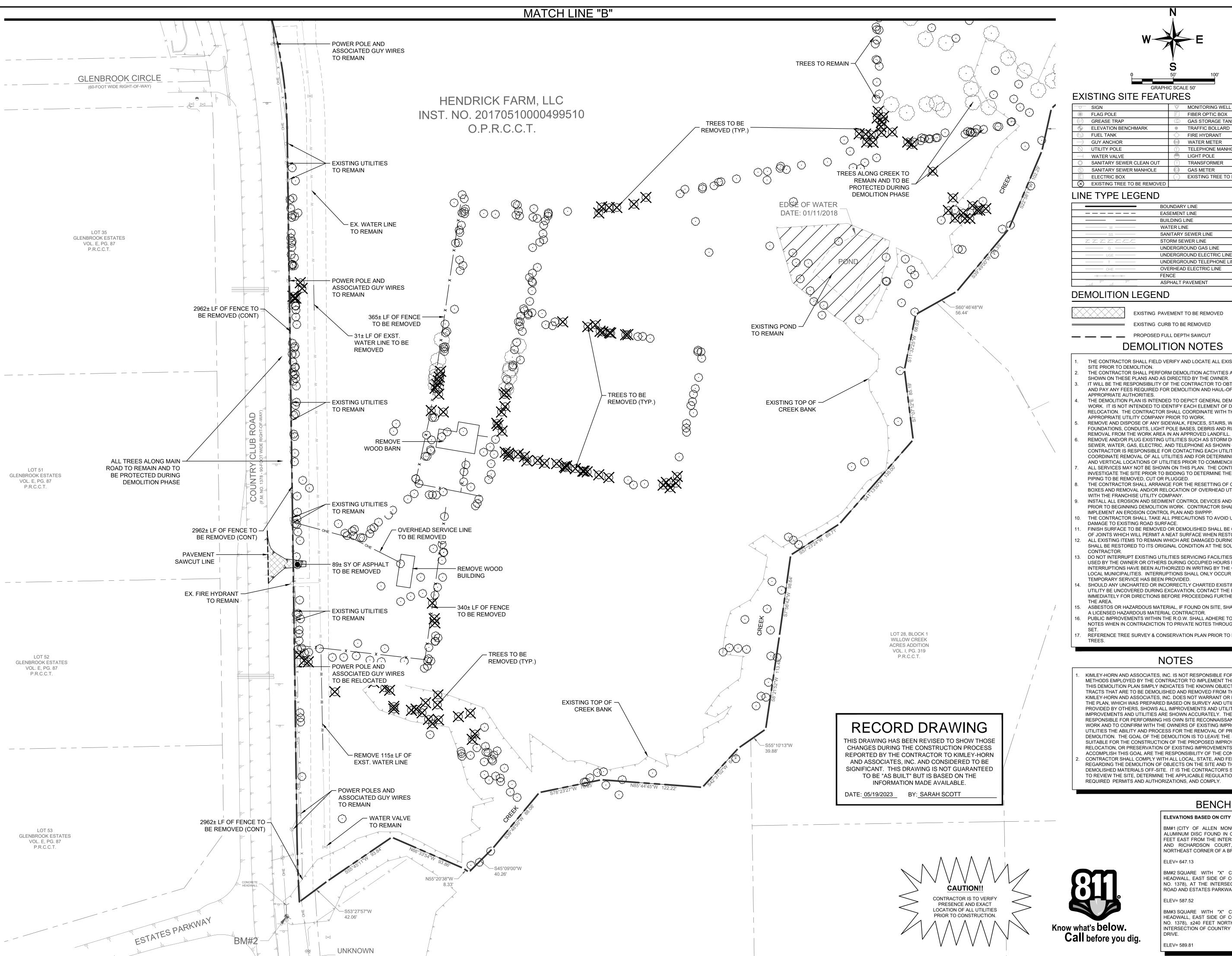
ELEV= 647.13

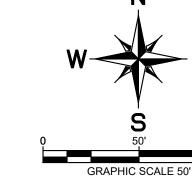
BM#2 SQUARE WITH "X" CUT SET ON CONCRETE HEADWALL, EAST SIDE OF COUNTRY CLUB ROAD (F.M. NO. 1378), AT THE INTERSECTION OF COUNTRY CLUB ROAD AND ESTATES PARKWAY (F.M. NO. 2170).

ELEV= 587.52

BM#3 SQUARE WITH "X" CUT SET ON CONCRETE HEADWALL, EAST SIDE OF COUNTRY CLUB ROAD (F.M. NO. 1378), ±240 FEET NORTH FROM THE CENTERLINE INTERSECTION OF COUNTRY CLUB ROAD AND SKYVIEW

SHEET NUMBER C-04





EXISTING SITE FEATURES

	SIGN	\bigcirc	MONITORING WELL
	FLAG POLE	F	FIBER OPTIC BOX
GT	GREASE TRAP	9	GAS STORAGE TANK
•	ELEVATION BENCHMARK	•	TRAFFIC BOLLARD
ŒŨ	FUEL TANK	ϕ	FIRE HYDRANT
\rightarrow	GUY ANCHOR	8	WATER METER
Ø	UTILITY POLE		TELEPHONE MANHOLE
\rightarrow	WATER VALVE		LIGHT POLE
	SANITARY SEWER CLEAN OUT	T	TRANSFORMER
S	SANITARY SEWER MANHOLE	G	GAS METER
E	ELECTRIC BOX	0	EXISTING TREE TO REMAIN
(\$)	EXISTING TREE TO BE REMOVED		

	BOUNDARY LINE
	EASEMENT LINE
	BUILDING LINE
W	WATER LINE
ss	SANITARY SEWER LINE
ZZZZZZZ	STORM SEWER LINE
———— G ————	UNDERGROUND GAS LINE
UGE	UNDERGROUND ELECTRIC LINE
— т —	UNDERGROUND TELEPHONE LINE
OHE	OVERHEAD ELECTRIC LINE
- * * * * *	FENCE
	ASPHALT PAVEMENT

DEMOLITION LEGEND

EXISTING PAVEMENT TO BE REMOVED

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PROPOSED FULL DEPTH SAWCUT

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- REFERENCE TREE SURVEY & CONSERVATION PLAN PRIOR TO REMOVING ANY

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BENCHMARKS

ELEVATIONS BASED ON CITY OF ALLEN GPS CONTROL BM#1 (CITY OF ALLEN MONUMENT NO. 2) 3-1/2-INCH ALUMINUM DISC FOUND IN CONCRETE, LOCATED ±350 FEET EAST FROM THE INTERSECTION OF MAIN STREET AND RICHARDSON COURT, ±16 FEET FROM THE NORTHEAST CORNER OF A BRIDGE.

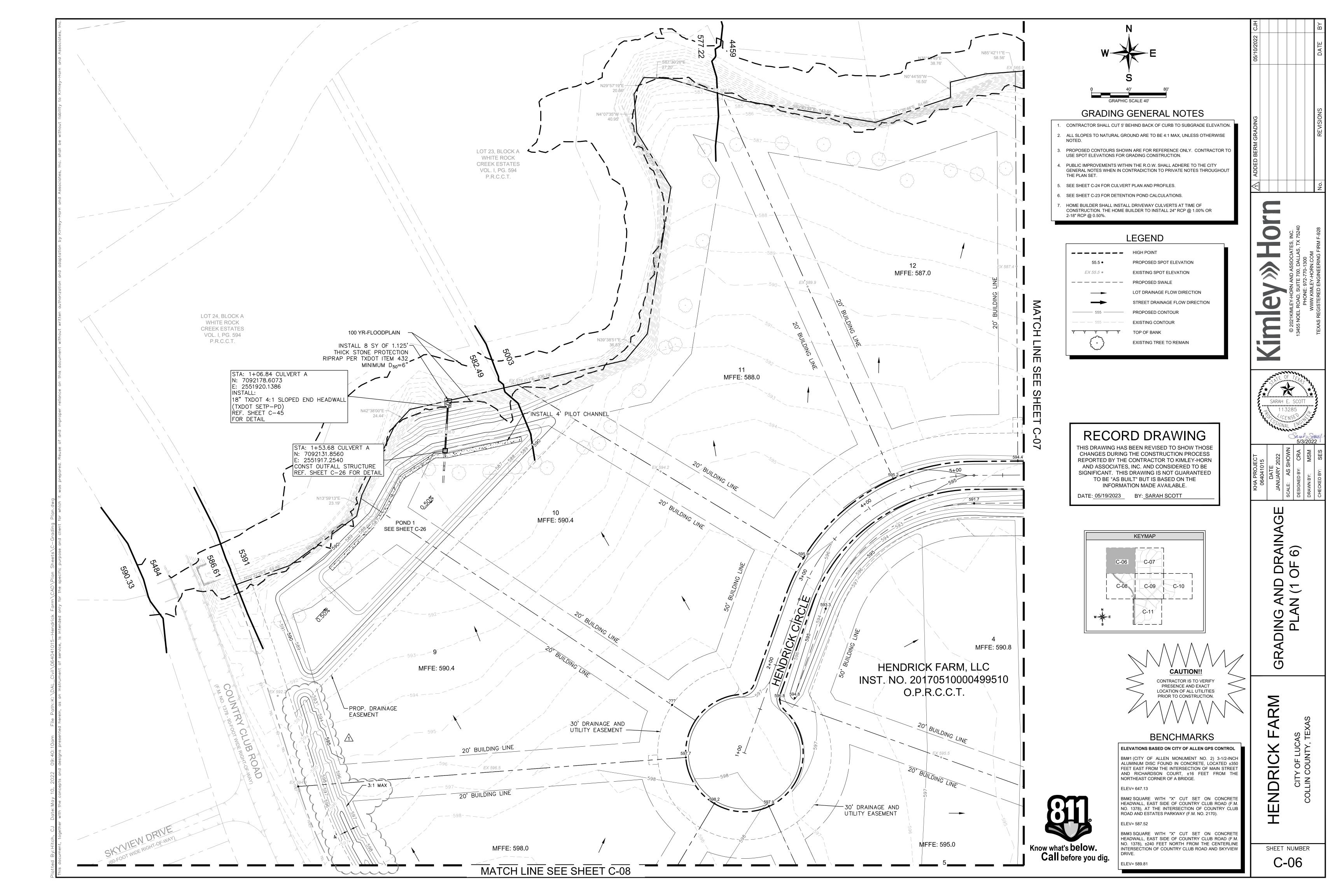
ELEV= 647.13

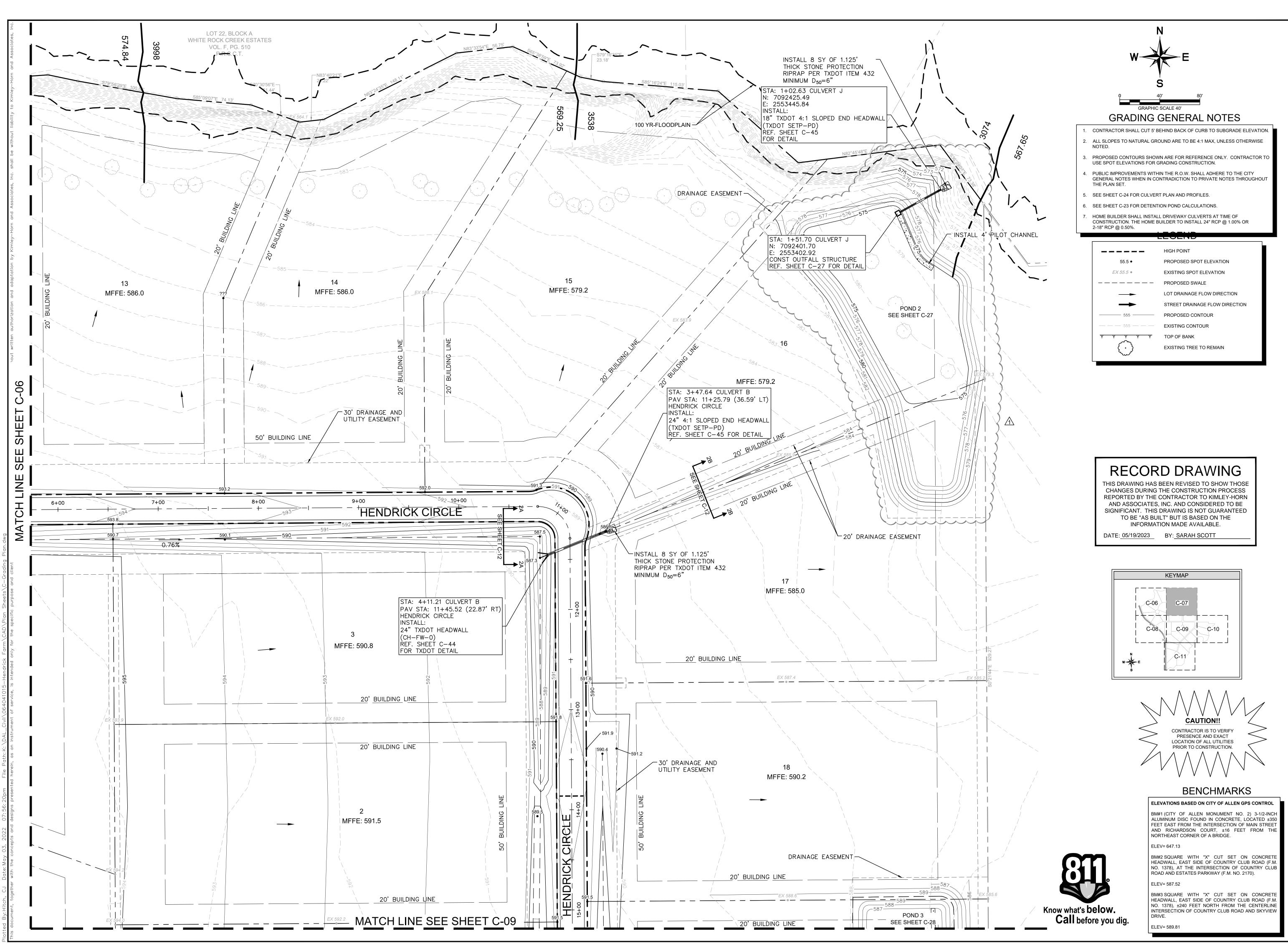
BM#2 SQUARE WITH "X" CUT SET ON CONCRETE HEADWALL, EAST SIDE OF COUNTRY CLUB ROAD (F.M. NO. 1378), AT THE INTERSECTION OF COUNTRY CLUB ROAD AND ESTATES PARKWAY (F.M. NO. 2170).

ELEV= 587.52

BM#3 SQUARE WITH "X" CUT SET ON CONCRETE HEADWALL, EAST SIDE OF COUNTRY CLUB ROAD (F.M. NO. 1378), ±240 FEET NORTH FROM THE CENTERLINE INTERSECTION OF COUNTRY CLUB ROAD AND SKYVIEW

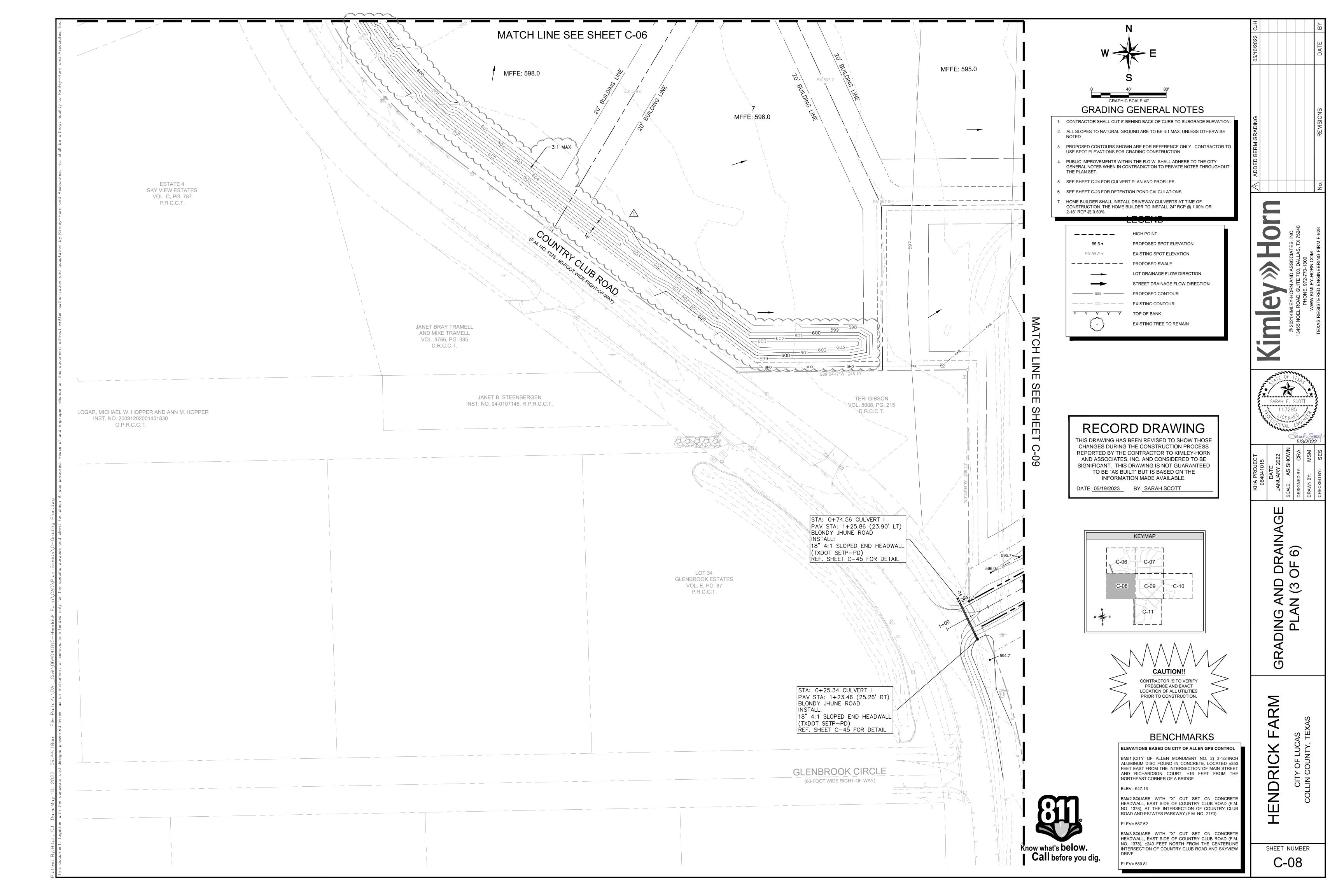
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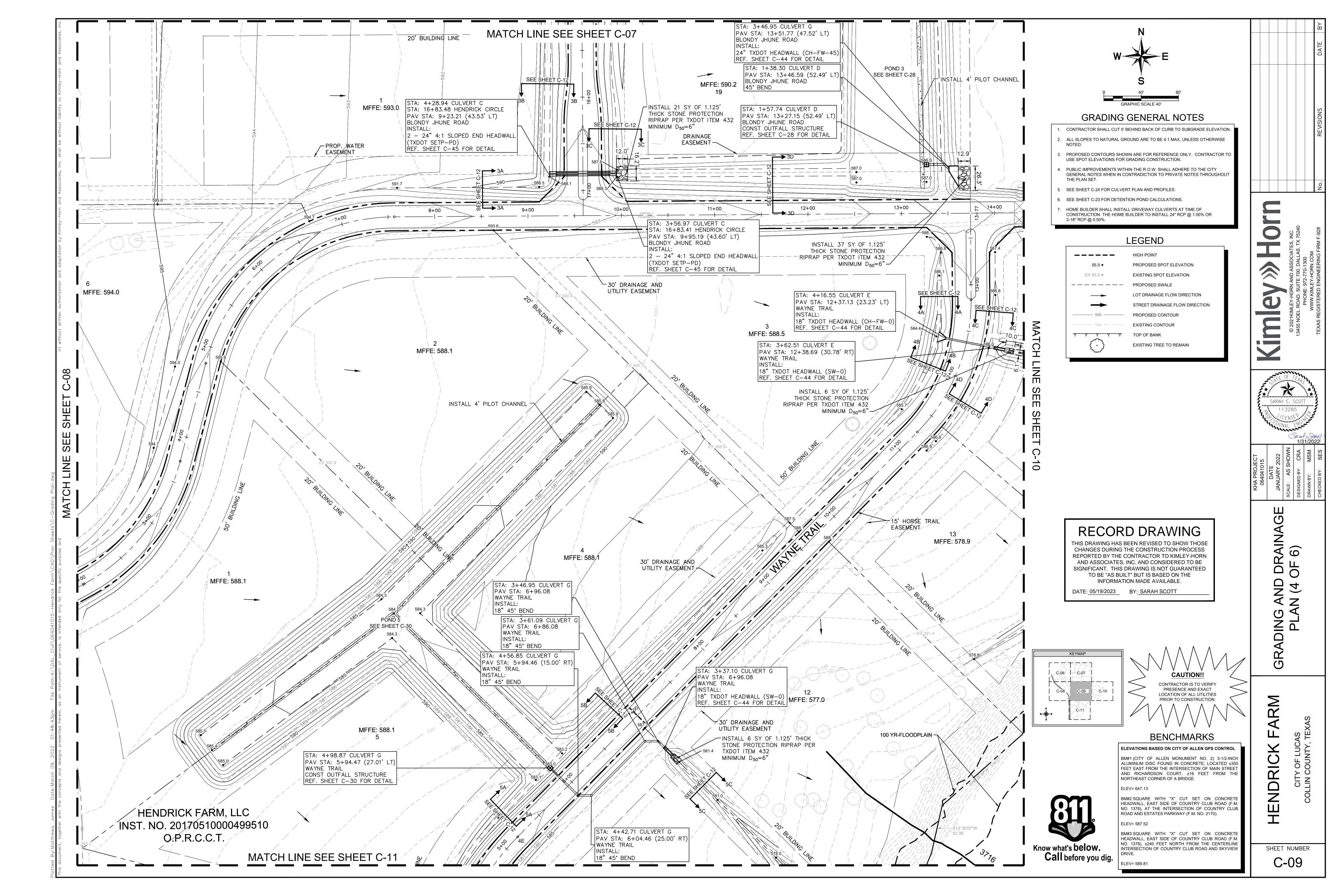


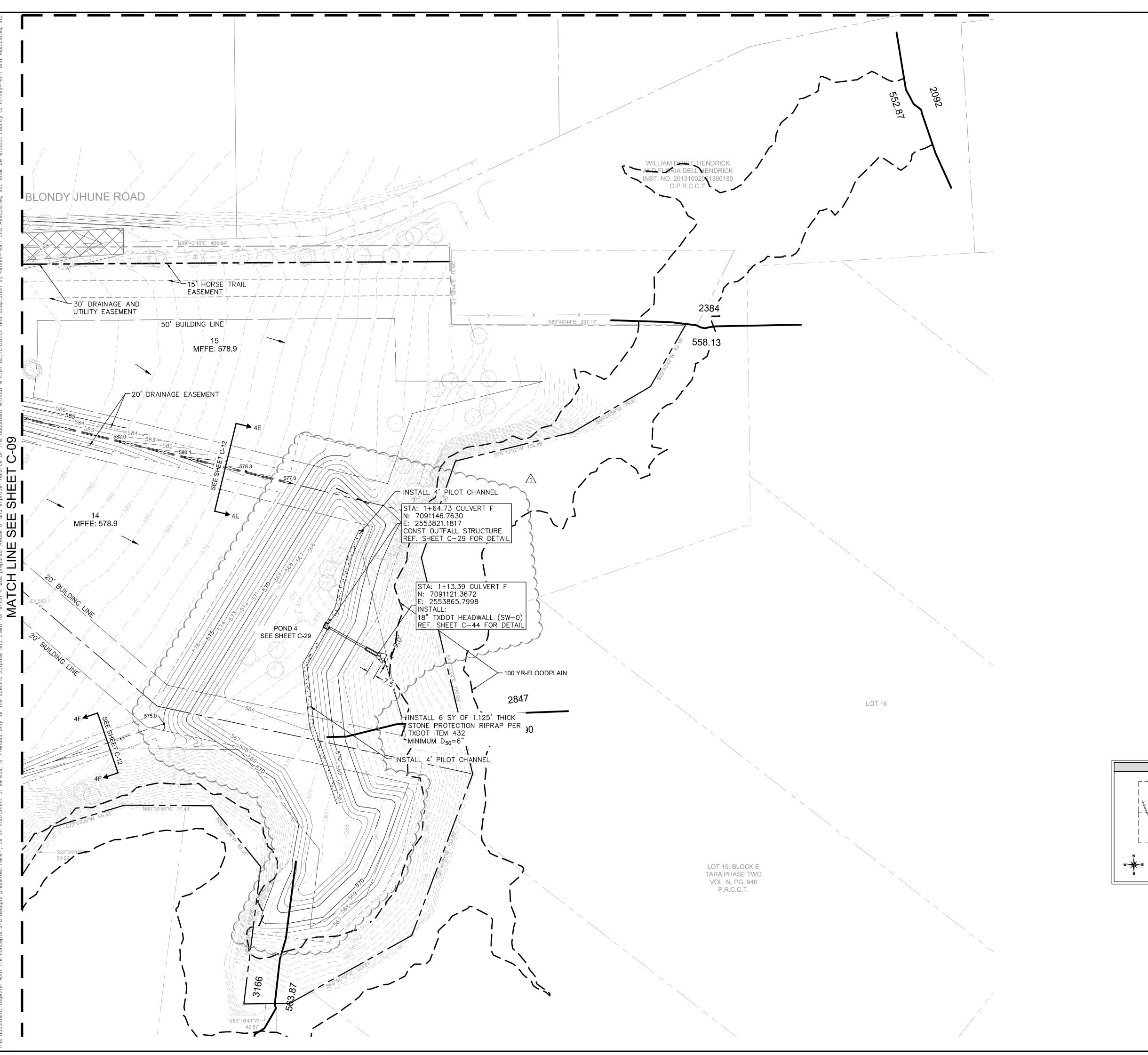


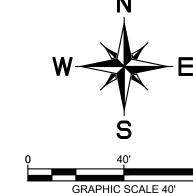
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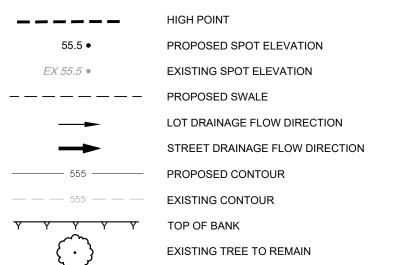




GRADING GENERAL NOTES

- 1. CONTRACTOR SHALL CUT 5' BEHIND BACK OF CURB TO SUBGRADE ELEVATION 2. ALL SLOPES TO NATURAL GROUND ARE TO BE 4:1 MAX, UNLESS OTHERWISE
- 3. PROPOSED CONTOURS SHOWN ARE FOR REFERENCE ONLY. CONTRACTOR TO
- USE SPOT ELEVATIONS FOR GRADING CONSTRUCTION. 4. PUBLIC IMPROVEMENTS WITHIN THE R.O.W. SHALL ADHERE TO THE CITY
- GENERAL NOTES WHEN IN CONTRADICTION TO PRIVATE NOTES THROUGHOUT
- 5. SEE SHEET C-24 FOR CULVERT PLAN AND PROFILES.
- 6. SEE SHEET C-23 FOR DETENTION POND CALCULATIONS.
- . HOME BUILDER SHALL INSTALL DRIVEWAY CULVERTS AT TIME OF CONSTRUCTION. THE HOME BUILDER TO INSTALL 24" RCP @ 1.00% OR 2-18" RCP @ 0.50%.

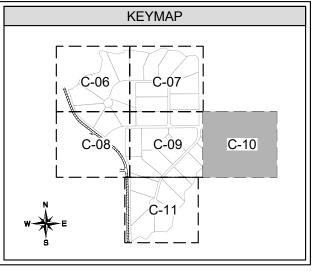
LEGEND



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: 05/19/2023 BY: SARAH SCOTT



Know what's below.

Call before you dig.



BENCHMARKS

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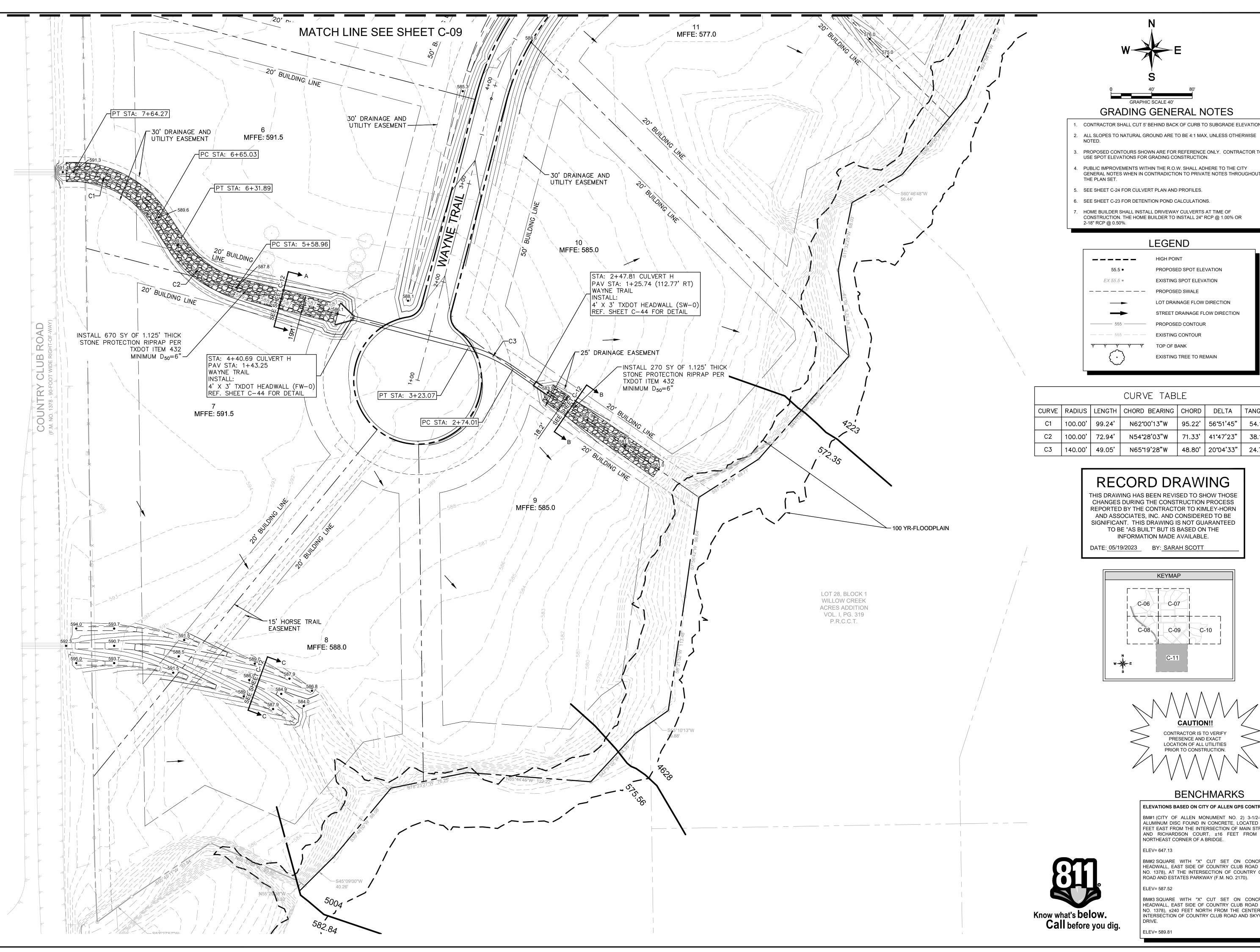
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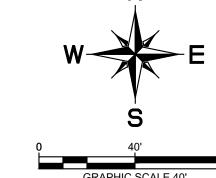
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SHEET NUMBER

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C-10

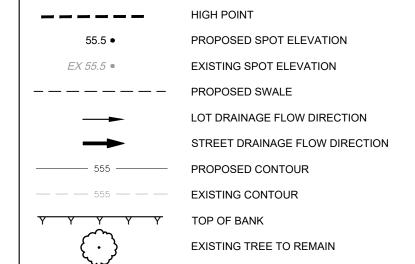




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LEGEND



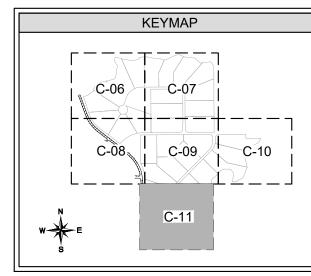
CURVE TABLE

CURVE	RADIUS	LENGTH	CHORD BEARING	CHORD	DELTA	TANGEN
C1	100.00'	99.24'	N62°00'13"W	95.22	56 ° 51'45"	54.14'
C2	100.00'	72.94'	N54°28'03"W	71.33'	41°47'23"	38.18'
С3	140.00'	49.05	N65°19'28"W	48.80'	20°04'33"	24.78

RECORD DRAWING

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: 05/19/2023 BY: SARAH SCOTT





BENCHMARKS

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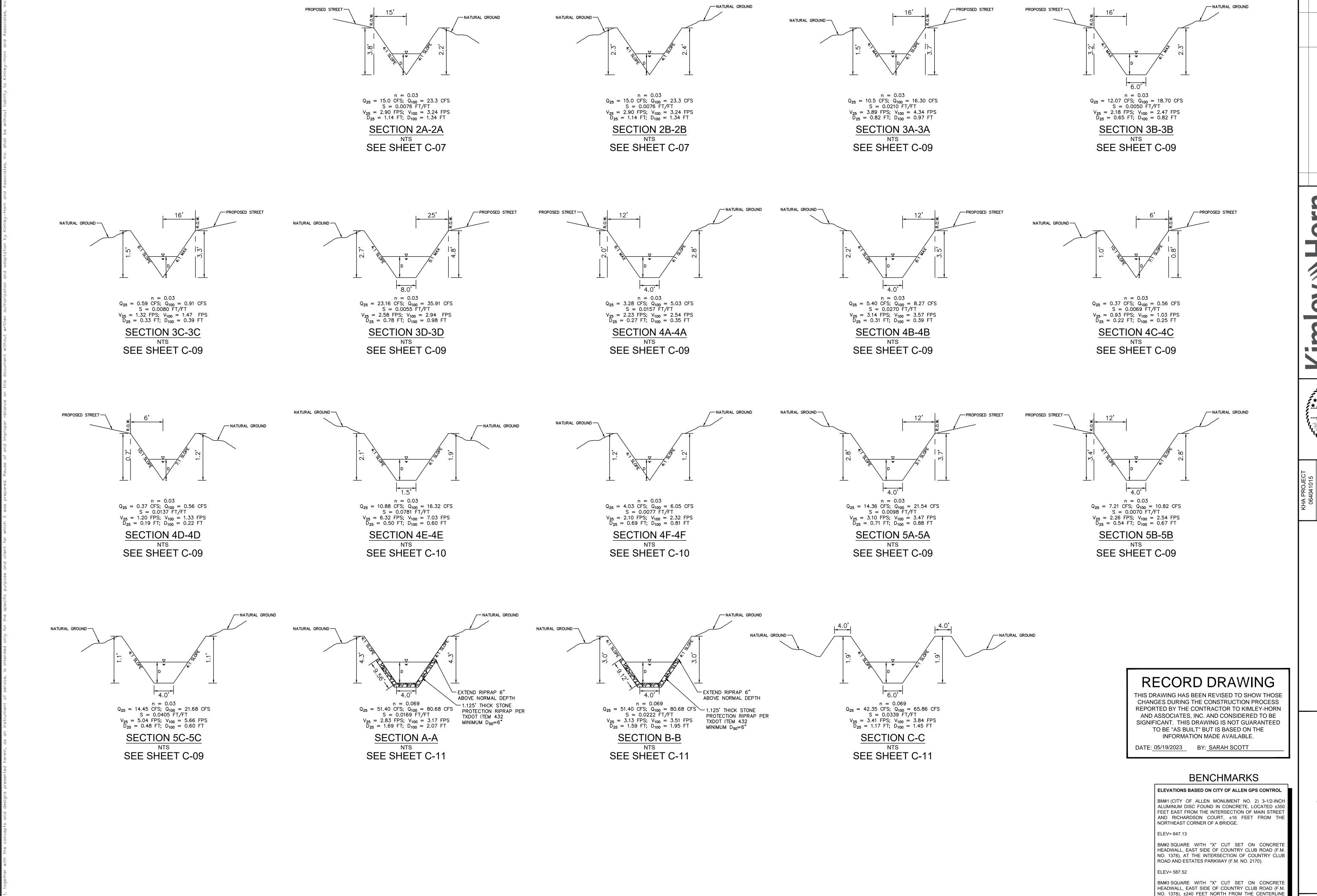
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C-11

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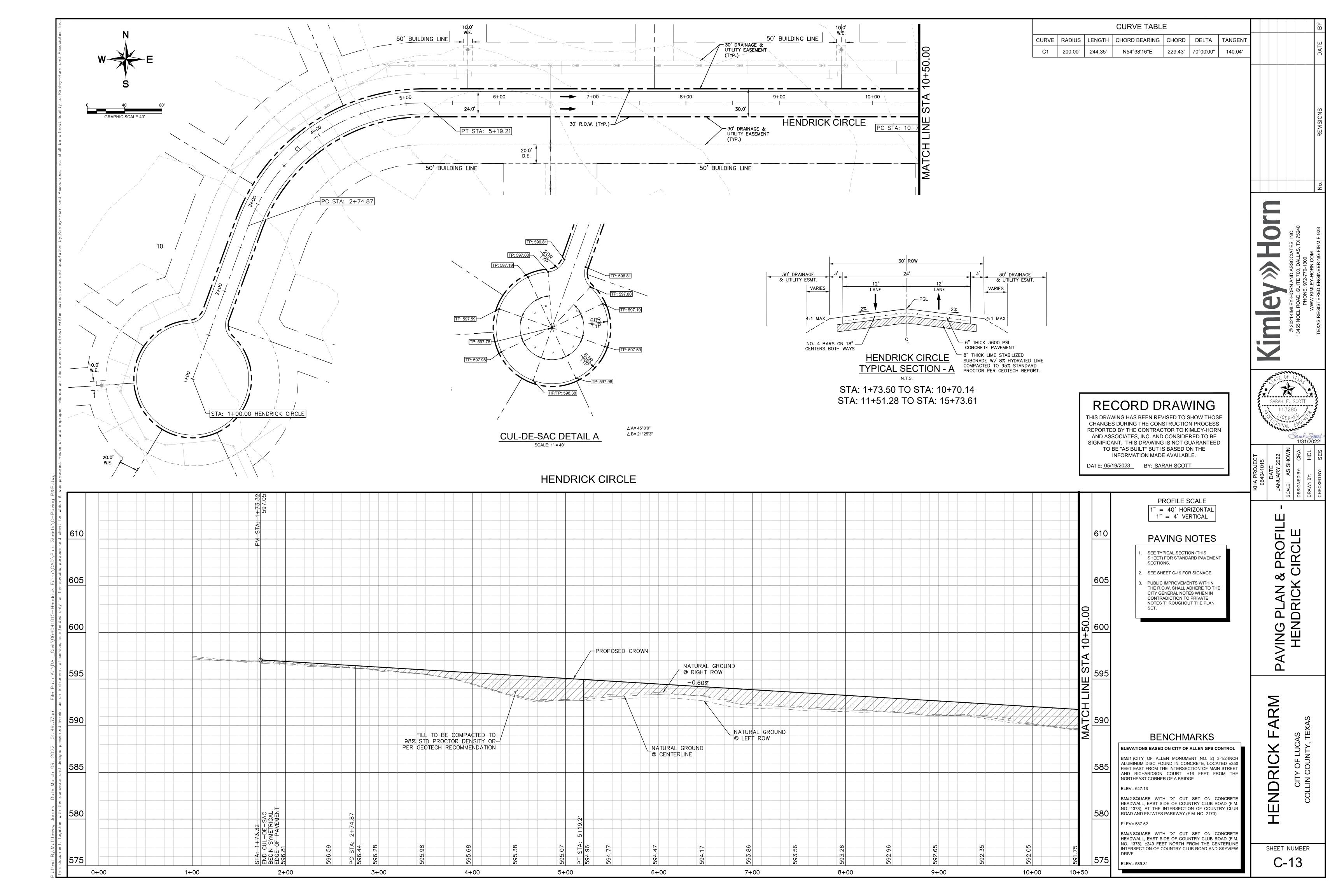
DRAINA(OF 6) 3 AND AN (6 (RADING

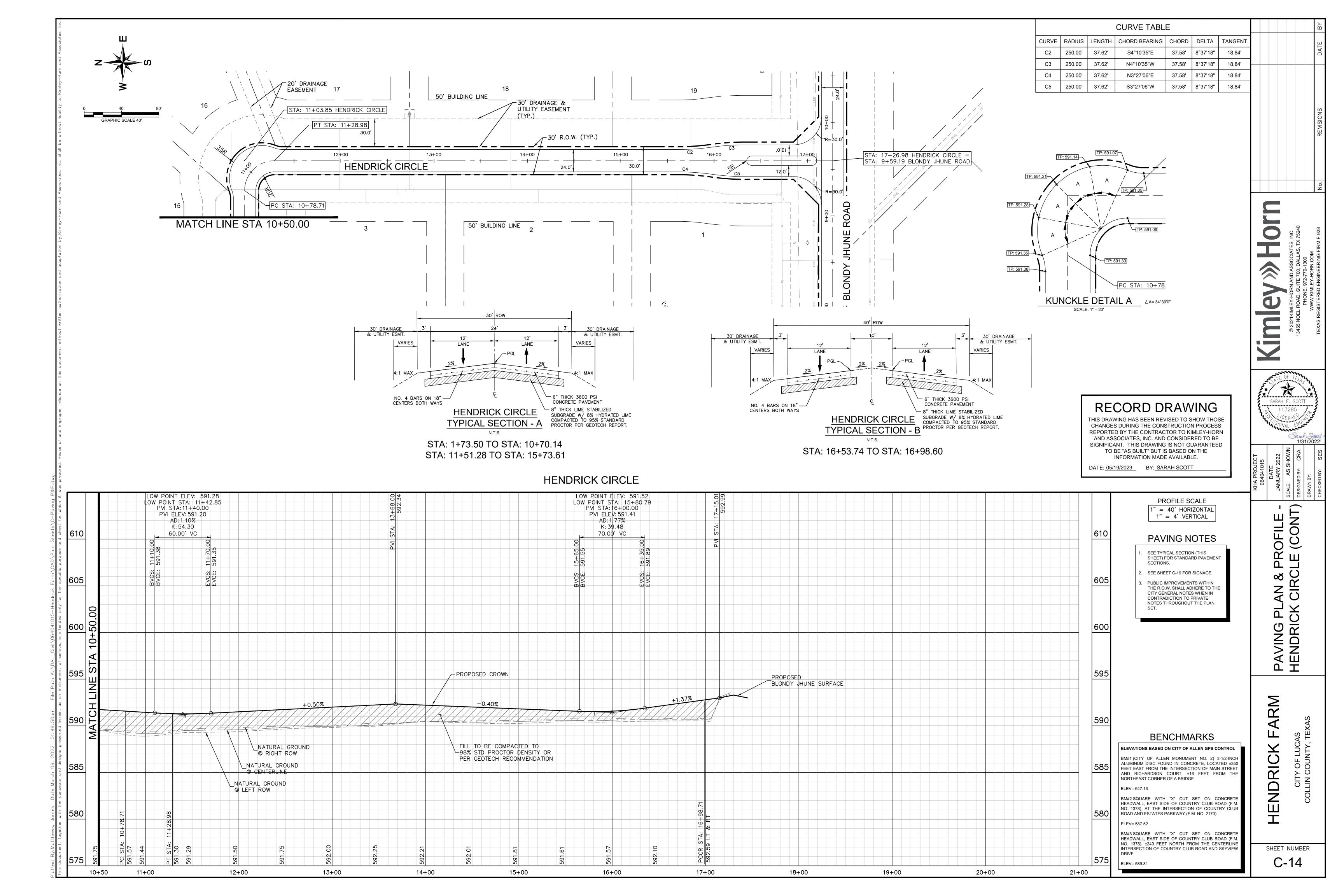


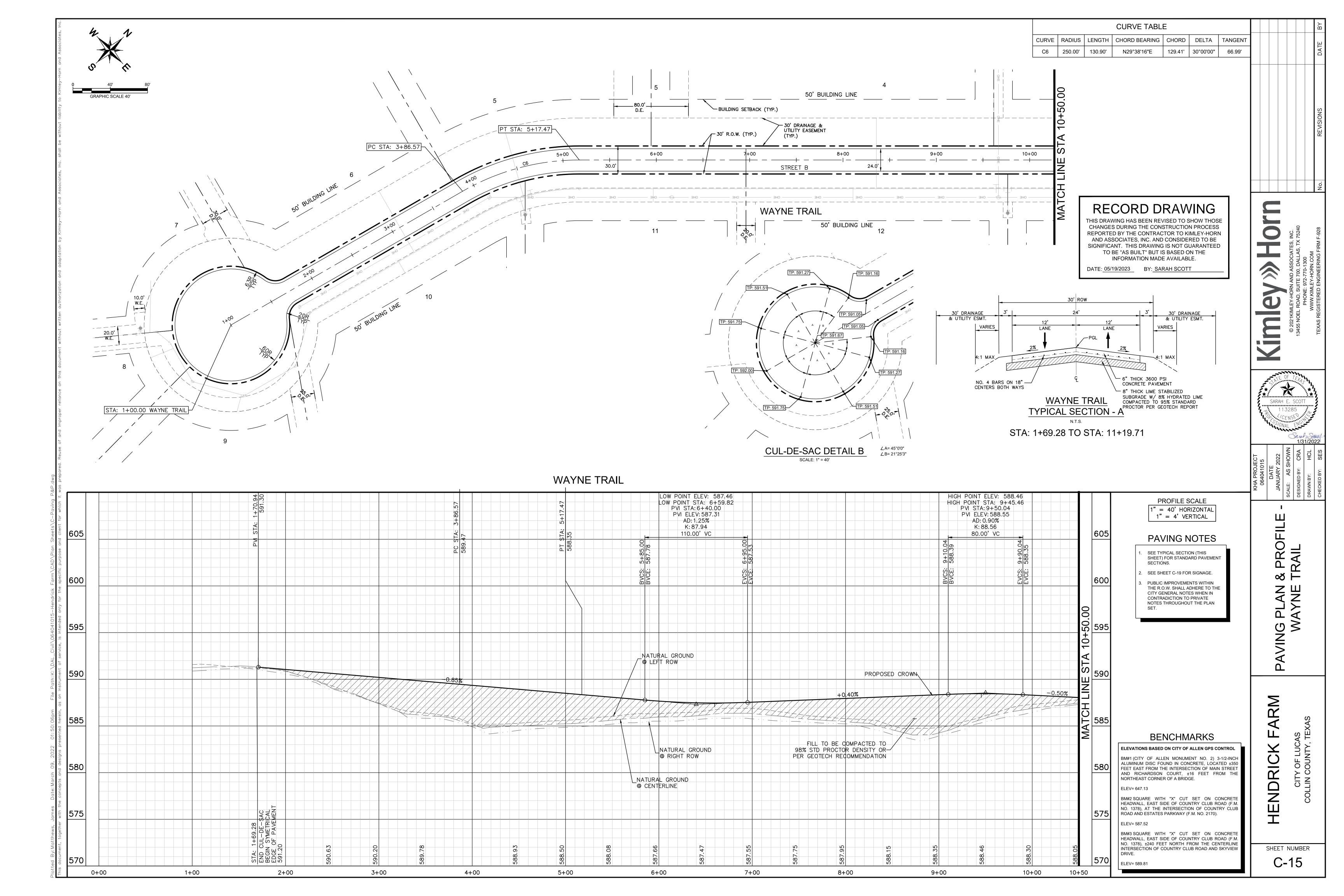
CHANNEL CROS SECTIONS

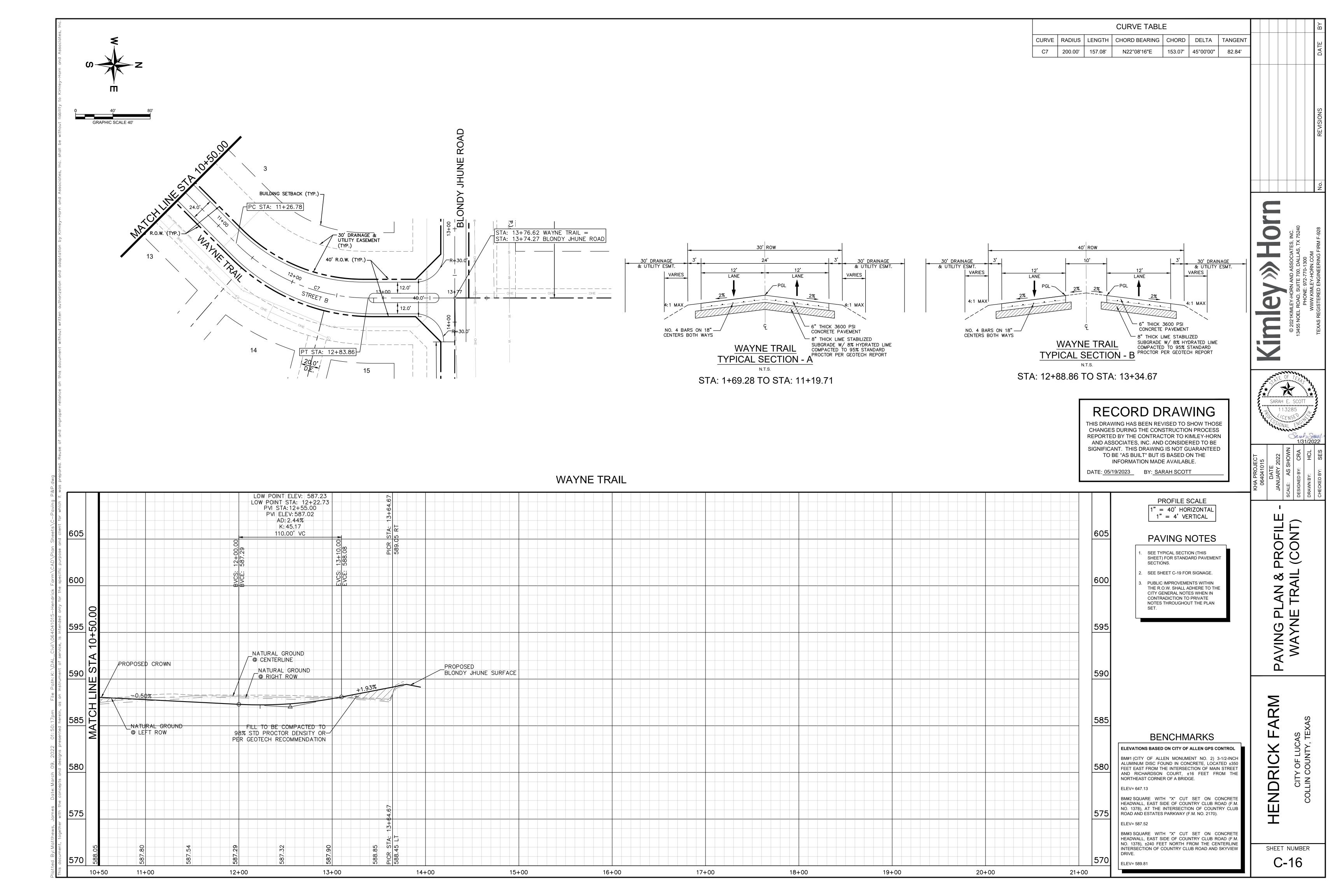
SHEET NUMBER C-12

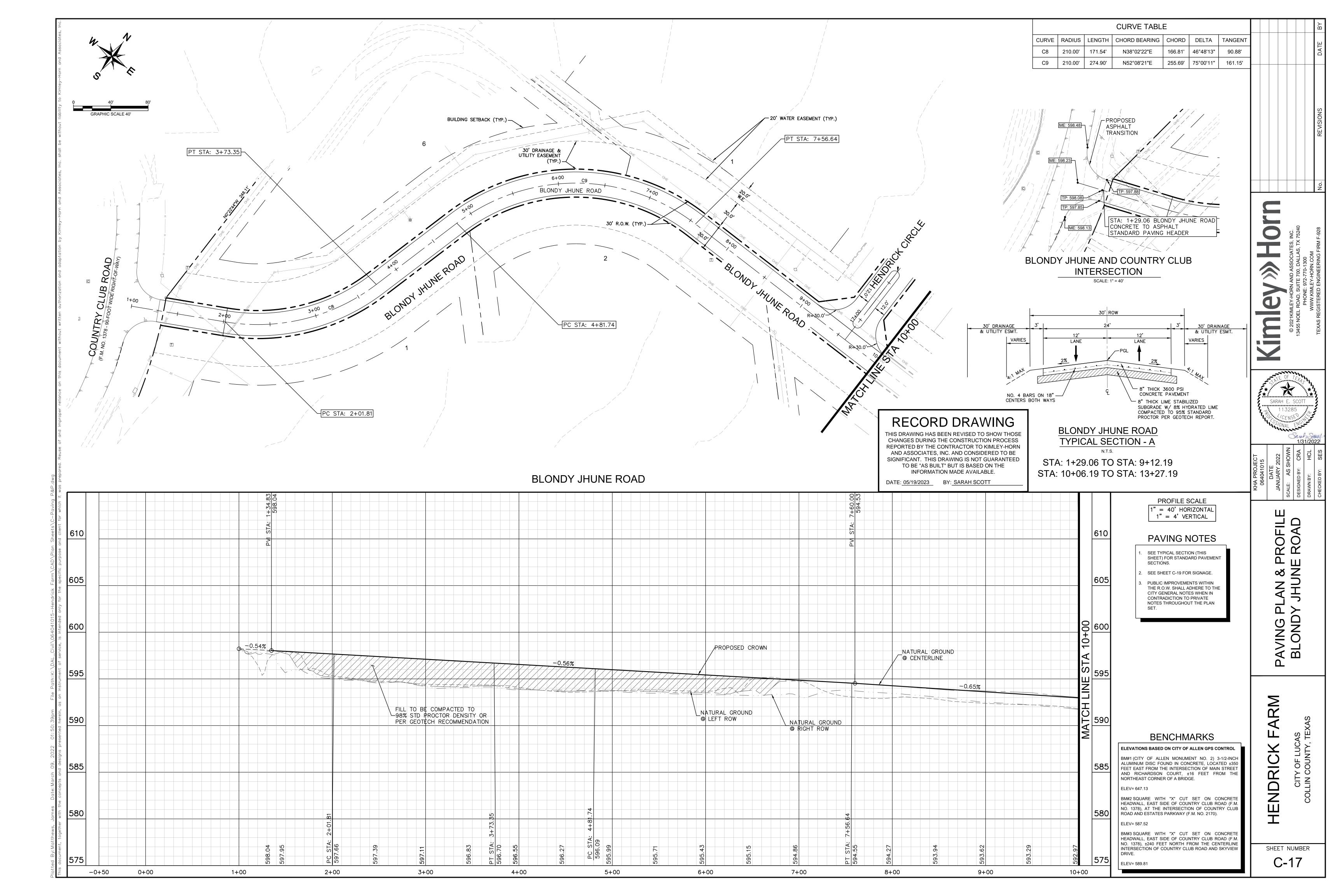
INTERSECTION OF COUNTRY CLUB ROAD AND SKYVIEW

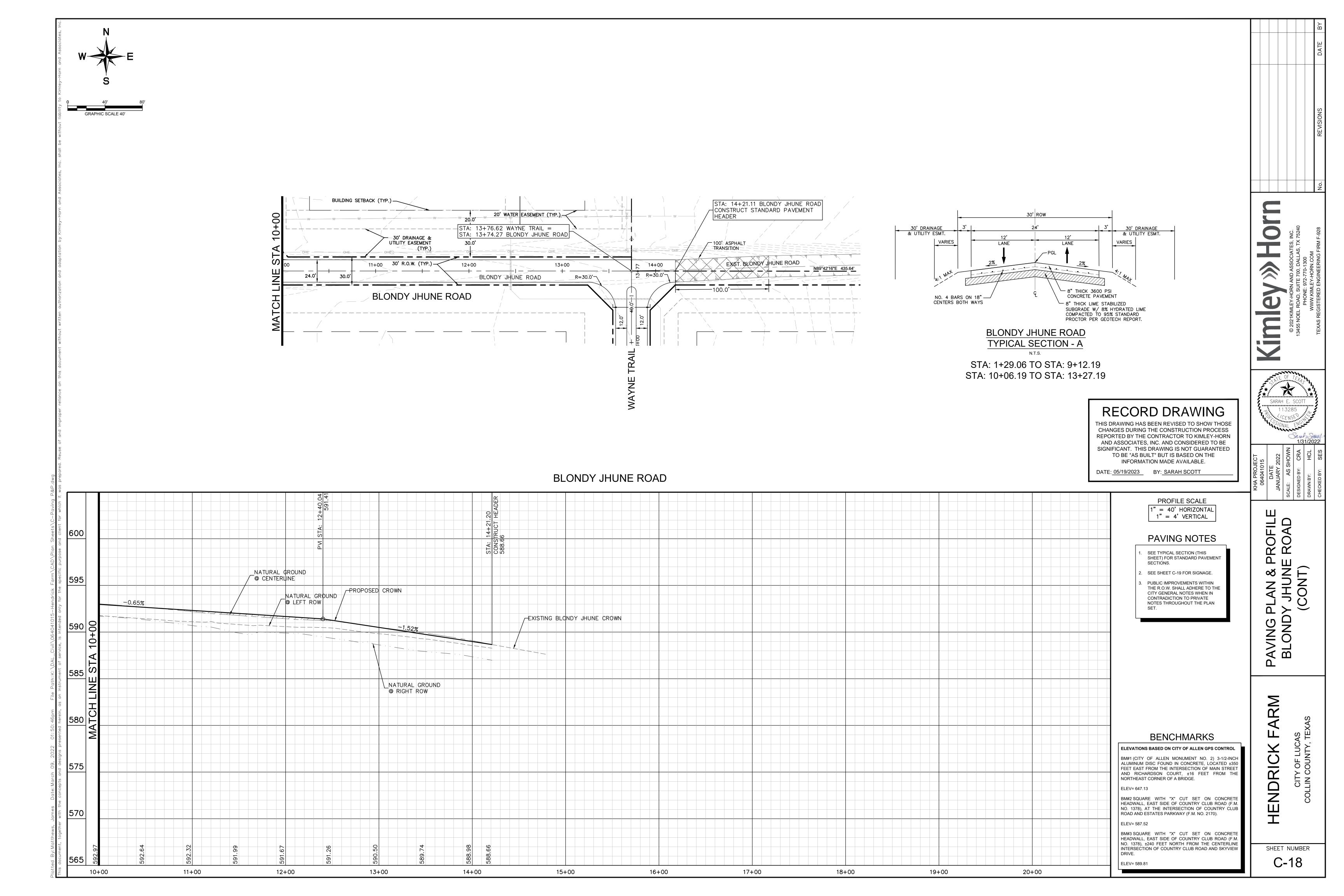


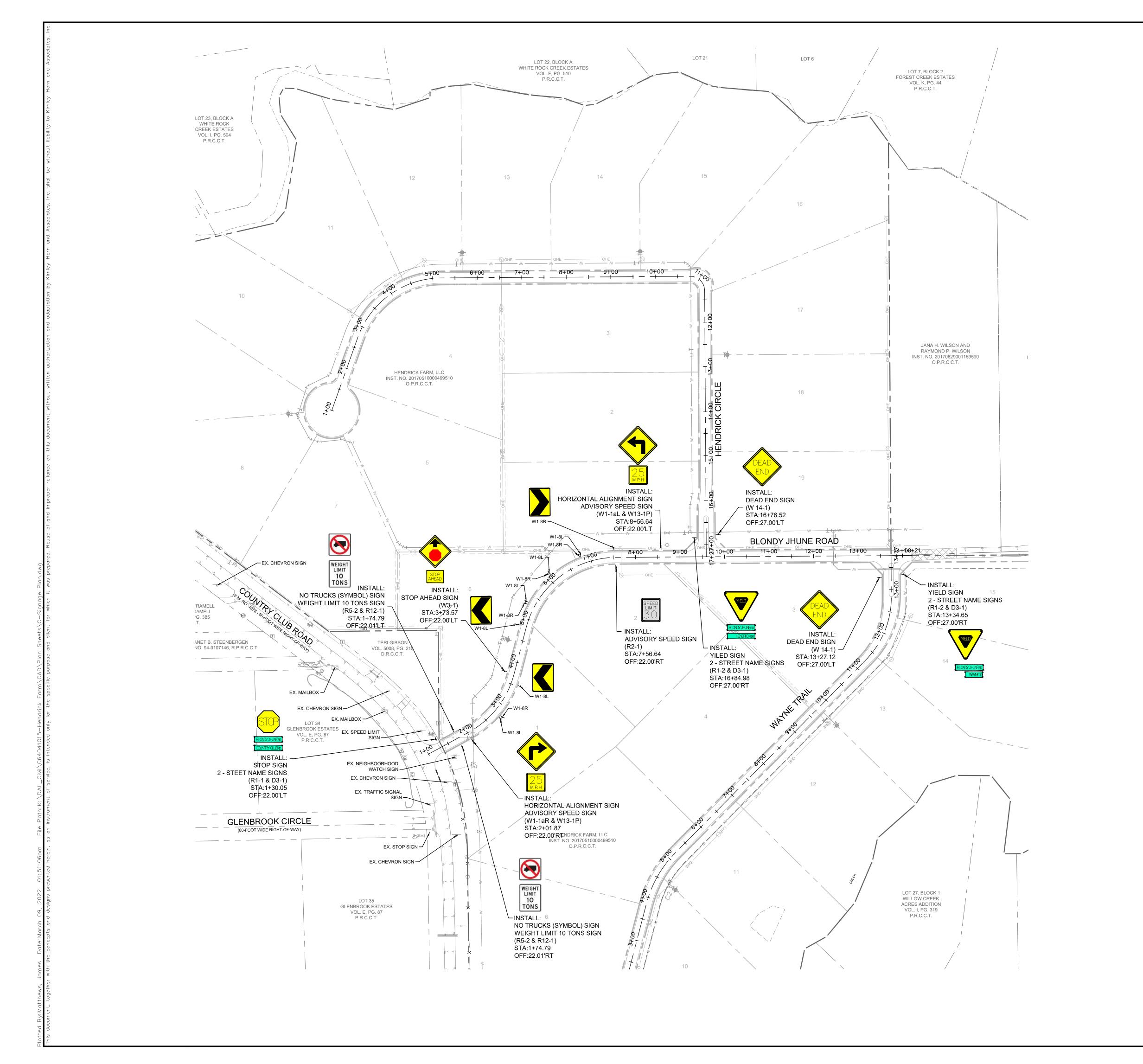


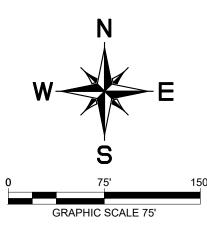










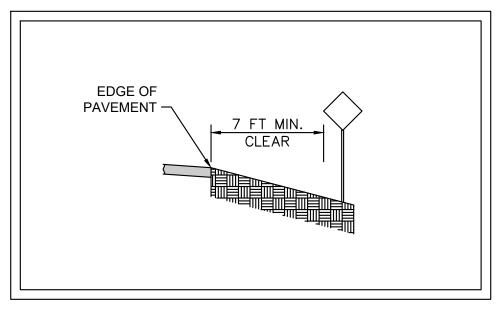


EXISTING SITE FEATURES

	LAISTING SITE I LATURES								
-0	SIGN	\Diamond	MONITORING WELL						
	FLAG POLE	F	FIBER OPTIC BOX						
GT	GREASE TRAP	G	GAS STORAGE TANK						
•	ELEVATION BENCHMARK	•	TRAFFIC BOLLARD						
ŒŨ	FUEL TANK	-	FIRE HYDRANT						
\rightarrow	GUY ANCHOR	W	WATER METER						
Ø	UTILITY POLE	1	TELEPHONE MANHOLE						
_	WATER VALVE		LIGHT POLE						
	SANITARY SEWER CLEAN OUT	T	TRANSFORMER						
S	SANITARY SEWER MANHOLE	G	GAS METER						
E	ELECTRIC BOX								

LINE TYPE LEGEND

	BOUNDARY LINE
	EASEMENT LINE
	BUILDING LINE
W	WATER LINE
ss	SANITARY SEWER LINE
ZZZZZZZ	STORM SEWER LINE
G	UNDERGROUND GAS LINE
———— UGE ————	UNDERGROUND ELECTRIC LINE
— т —	UNDERGROUND TELEPHONE LINE
OHE	OVERHEAD ELECTRIC LINE
- * * * * *-	FENCE
di di	ASPHALT PAVEMENT



TYPICAL SIGN PLACEMENT

N.T.S.

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: <u>05/19/2023</u> BY: <u>SARAH SCOTT</u>



BENCHMARKS

ELEVATIONS BASED ON CITY OF ALLEN GPS CONTROL BM#1 (CITY OF ALLEN MONUMENT NO. 2) 3-1/2-INCH ALUMINUM DISC FOUND IN CONCRETE, LOCATED ±350 FEET EAST FROM THE INTERSECTION OF MAIN STREET AND RICHARDSON COURT, ±16 FEET FROM THE NORTHEAST CORNER OF A BRIDGE.

ELEV= 647.13

BM#2 SQUARE WITH "X" CUT SET ON CONCRETE HEADWALL, EAST SIDE OF COUNTRY CLUB ROAD (F.M. NO. 1378), AT THE INTERSECTION OF COUNTRY CLUB ROAD AND ESTATES PARKWAY (F.M. NO. 2170).

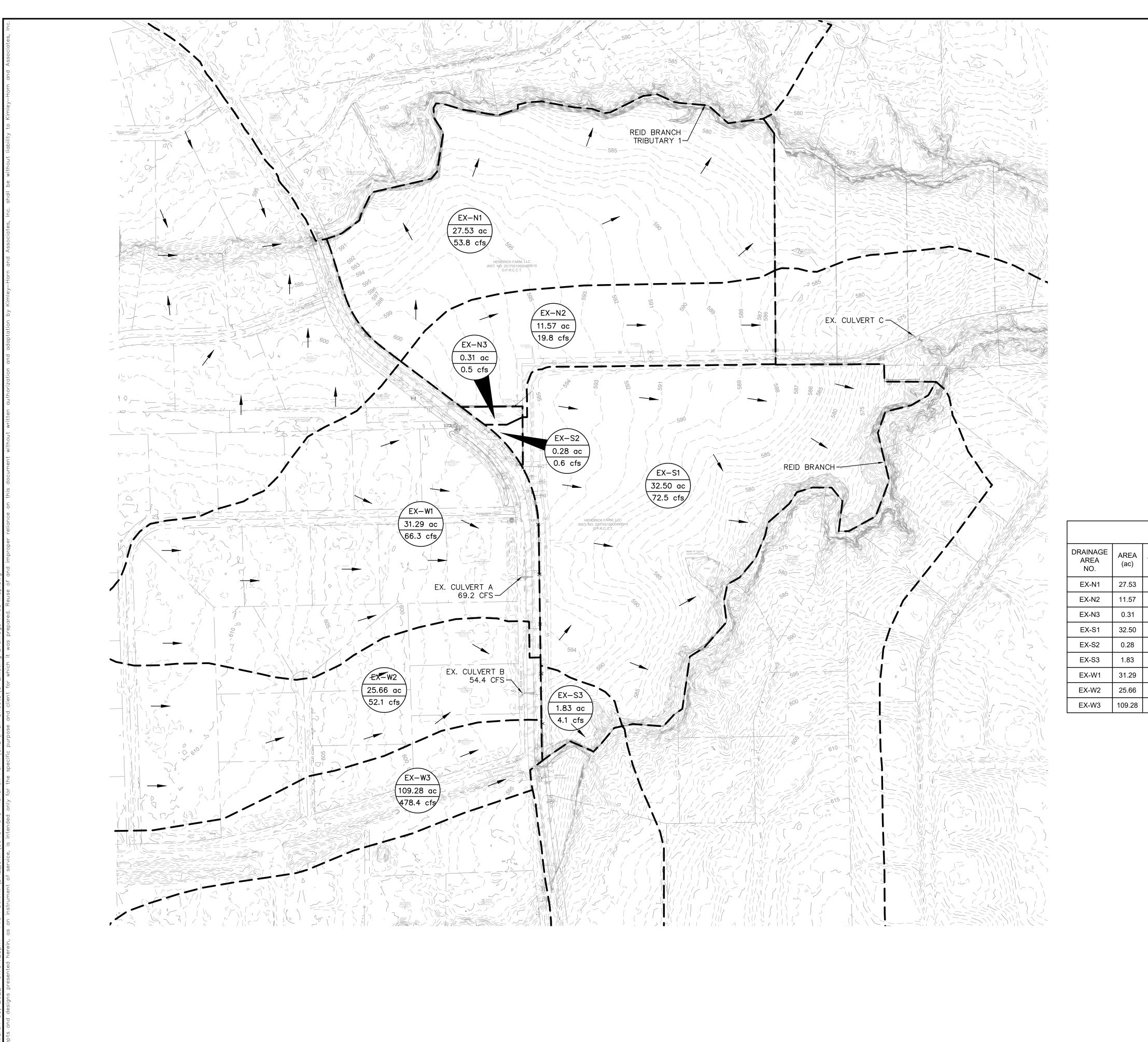
ELEV= 587.52

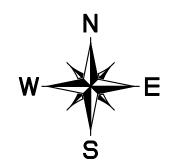
Know what's below.

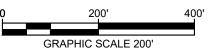
Call before you dig.

BM#3 SQUARE WITH "X" CUT SET ON CONCRETE HEADWALL, EAST SIDE OF COUNTRY CLUB ROAD (F.M. NO. 1378), ±240 FEET NORTH FROM THE CENTERLINE INTERSECTION OF COUNTRY CLUB ROAD AND SKYVIEW

SIGNAGE







DRAINAGE DESIGN CRITERIA

Q100 = C*I*A

- Q = FLOW IN CUBIC FEET PER SECOND (CFS)
- C = RUNOFF COEFFICIENT = 0.55 (1 ACRE+ RESIDENTIAL) 0.35 (OPEN SPACE)
- I = INTENSITY (TIME OF CONCENTRATION = TC) I = B / (TC + D)^E (PER NOAA ATLAS 14) E = 0.7172 B = 75.709 D = 8.121 TC = VARIES
- A = DRAINAGE AREA IN ACRES

DRAINAGE GENERAL NOTES

CONTRACTOR TO FIELD VERIFY HORIZONTAL AND VERTICAL LOCATION OF EXISTING UTILITIES PRIOR TO CONSTRUCTION.

- SEE STORM DRAIN PLAN & PROFILE SHEETS FOR DETAILED INFORMATION ON STORM DRAIN LINES.
- ALL STORM DRAIN LINES SHALL BE RCP, CLASS III UNLESS OTHERWISE NOTED.
- REFERENCE FLOODPLAIN STUDY PREPARED BY KIMLEY-HORN, DATED FEBRUARY 26, 2018, FOR FULL EXTENTS OF EXISTING DRAINAGE AREAS, FLOODPLAIN INFORMATION, AND EX TIMES OF CONCENTRATION.

			D	RAINAGE ARE	A TABLE		
RAINAGE AREA NO.	AREA (ac)	ANTECEDENT FACTOR	RUNOFF COEFFICIENT "C"	TIME OF CONCENTRATION (minutes) RAINFA		TOTAL FLOW Q100 (cfs)	COLLECTION POINT
EX-N1	27.53	1.00	0.35	30	5.58	53.8	REID BRANCH TRIBUTARY 1
EX-N2	11.57	1.00	0.35	37	4.90	19.8	REID BRANCH VIA EX. CULVERT C
EX-N3	0.31	1.00	0.35	37	4.90	0.5	REID BRANCH VIA EX. CULVERT C
EX-S1	32.50	1.00	0.35	23	6.37	72.5	REID BRANCH
EX-S2	0.28	1.00	0.35	23	6.37	0.6	REID BRANCH
EX-S3	1.83	1.00	0.35	23	6.37	4.1	REID BRANCH

3.69

7.96

478.4

1.00

1.00

25.66

0.55

0.55

0.55

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.

EX. CULVERT A TO REID BRANCH

EX. CULVERT A TO REID BRANCH

REID BRANCH

DATE: 05/19/2023 BY: SARAH SCOTT

!!WARNING!!

EXISTING UTILITIES IN THE AREA. CONTRACTOR SHALL FIELD VERIFY THE LOCATION OF ALL EXISTING UTILITIES WITH THE PROVIDER PRIOR TO START OF CONSTRUCTION AND SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY CONFLICTS DISCOVERED. CONTRACTOR IS RESPONSIBLE FOR COORDINATING UTILITY RELOCATION WHERE NECESSARY AND PROTECTING EXISTING UTILITIES (SHOWN OR NOT SHOWN). IF ANY EXISTING UTILITIES ARE DAMAGED, THE CONTRACTOR SHALL REPLACE THEM AT THEIR OWN EXPENSE.





3.0 126.0 54.7 2.3 567.0 549 0.008 2.5

4.0 | 64.0 | 33.0 | 1.9 | 589.3 | 588.2 | 0.012 | 7.2 | 0.2

Tc = L / 60*V

0.150 34.7 428.29 559.890 543.340 0.0386 Unpaved 3.17 2.3

0.150 17.6 110 581.400 567.000 0.1309 Unpaved 5.84 0.3 2200 0.095 30 4

0.150 | 26.2 | 750 | 597.500 | 589.300 | 0.0109 | Unpaved | 1.69 | 7.4 | 93 | 0.035 | 0 | 4

 $V = (1.49/n)*R^{(2/3)}*s^{(1/2)}$

Manning's T_{c1} Length Elev₂ Elev₃ Slope Condition V_{av g} T_{c2} Length Manning's Width Side Slope Depth Area Perimeter Radius Elev₃ Elev₄ Slope V_{av g} T_{c3}

0.150 7.5 378 591.000 587.200 0.0101 Unpaved 1.62 3.9 163 0.035 0 4 2.0 16.0 16.5 1.0 587.2 585.4 0.011 6.0 0.5 0.150 17.3 26 579.100 575.500 0.1385 Unpaved 6.00 0.1 138 0.035 40 4 1.0 44.0 48.2 0.9 575.5 574 0.011 4.2 0.6

 0.150
 28.2
 134
 598.100
 596.000
 0.0157
 Unpaved
 2.02
 1.1
 253
 0.035
 0
 4
 1.5
 9.0
 12.4
 0.7
 596.0
 587.8
 0.032
 6.2
 0.7

 0.150
 27.8
 27
 598.000
 597.800
 0.0074
 Unpaved
 1.39
 0.3
 779
 0.035
 0
 4
 2.5
 25.0
 20.6
 1.2
 597.8
 585.6
 0.016
 6.1
 2.1

0.150 30.3 9 589.500 587.200 0.2556 Unpaved 8.16 0.0 193 0.035 0 4 4.0 64.0 33.0 1.9 587.2 586 0.006 5.2 0.6

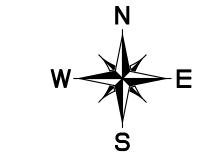
0.150 25.3 327 593.170 569.000 0.0739 Unpaved 4.39 1.2 1200 0.035 20 3 8.0 352.0 70.6 5.0 569.0 561 0.007 6.0 3.3

(ft/ft) TR-55 Fig. 3-1 (ft/s) (min) (ft) "n" (ft) (ft/ft) (ft) (ft/2) (ft) (ft)

2-year/24-hr Rainfall Depth (in.) from iSWM = 4

Length Elev₁ Elev₂

DA-**N**4





DRAINAGE DESIGN CRITERIA

Q = FLOW IN CUBIC FEET PER SECOND (CFS)

I = INTENSITY (TIME OF CONCENTRATION = TC)

Q100 = 1.25*C*I*A

C = RUNOFF COEFFICIENT = 0.45 (1 ACRE+ RESIDENTIAL)

I = B / (TC + D)^E E = 0.73702 B = 86.709

TC = VARIES

A = DRAINAGE AREA IN ACRES

DRAINAGE GENERAL NOTES

- CONTRACTOR TO FIELD VERIFY HORIZONTAL AND VERTICAL LOCATION OF EXISTING UTILITIES PRIOR TO CONSTRUCTION.
- SEE STORM DRAIN PLAN & PROFILE SHEETS FOR DETAILED INFORMATION ON STORM DRAIN LINES.
- ALL STORM DRAIN LINES SHALL BE RCP, CLASS III UNLESS OTHERWISE

RECORD DRAWING

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: <u>05/19/2023</u> BY: <u>SARAH SCOTT</u>

					RAINAGE ARE	EA TABLE			
DRAINAGE AREA NO.	AREA (ac)	ANTECEDENT FACTOR	PRE-DEVELOPMENT RUNOFF COEFFICIENT "C"	POST-DEVELOPMENT RUNOFF COEFFICIENT "C"	TIME OF CONCENTRATION (minutes)	RAINFALL INTENSITY "I"100 (in/hr)	PRE-DEVELOPMENT RUNOFF Q100 (cfs)	POST-DEVELOPMENT RUNOFF Q100 (cfs)	COLLECTION POINT
DA-N1	4.91	1.25	0.30	0.55	30	5.62	10.88	18.95	DETENTION POND 1
DA-N2	6.02	1.25	0.30	0.55	30	5.62	12.96	23.26	DETENTION POND 2
DA-N3	9.71	1.25	0.30	0.55	34	5.26	18.97	35.11	CULVERT C, DET. POND 3
DA-N4	3.67	1.25	0.30	0.55	31	5.53	6.21	13.97	DETENTION POND 3
DA-N5	15.50	1.25	0.30	0.55	30	5.63	36.42	60.01	BYPASS, REID BRANCH TRIBUTARY 1
DA-S1	12.49	1.25	0.30	0.55	15	7.86	36.81	67.49	DETENTION POND 5
DA-S2	2.46	1.25	0.30	0.55	15	7.86	7.25	13.27	CULVERT E, DET. POND 4
DA-S3	3.73	1.25	0.30	0.55	18	7.27	10.99	18.63	DETENTION POND 4
DA-S4	16.48	1.25	0.30	0.55	33	5.36	33.12	60.74	REID BRANCH
EX-W1	29.86	1.25	0.55	0.55	56	3.93	80.69	80.69	EX CULVERT A
EX-W2	25.41	1.25	0.55	0.55	59	3.77	65.86	65.86	EX CULVERT B

Detention Summary Table Existing Release (cfs) Proposed Release (cfs) Existing Contributing Proposed Contributing 2-yr | 10-yr | 25-yr | 100-yr | 2-yr | 10-yr | 25-yr | 100-yr Pond 1, Pond 2, DA-N5 23.69 33.13 38.95 48.25 23.23 32.07 38.47 48.21 10.05 | 14.06 | 16.54 | 20.49 | 9.68 | 13.64 | 16.30 | 20.47 EX-N2, EX-N3 Pond 3 EX-S1, EX-S2, EX-S3 Pond 4, Pond 5, DA-S4 29.43 41.17 48.41 59.98 29.13 40.64 48.23 59.93

BM#1 (CITY OF ALLEN MONUMENT NO. 2) 3-1/2-INCH ALUMINUM DISC FOUND IN CONCRETE, LOCATED ±350 FEET EAST FROM THE INTERSECTION OF MAIN STREET AND RICHARDSON COURT, ±16 FEET FROM THE

BM#2 SQUARE WITH "X" CUT SET ON CONCRETE HEADWALL, EAST SIDE OF COUNTRY CLUB ROAD (F.M. NO. 1378), AT THE INTERSECTION OF COUNTRY CLUB ROAD AND ESTATES PARKWAY (F.M. NO. 2170).

BM#3 SQUARE WITH "X" CUT SET ON CONCRETE HEADWALL, EAST SIDE OF COUNTRY CLUB ROAD (F.M. NO. 1378), ±240 FEET NORTH FROM THE CENTERLINE INTERSECTION OF COUNTRY CLUB ROAD AND SKYVIEW

C-21

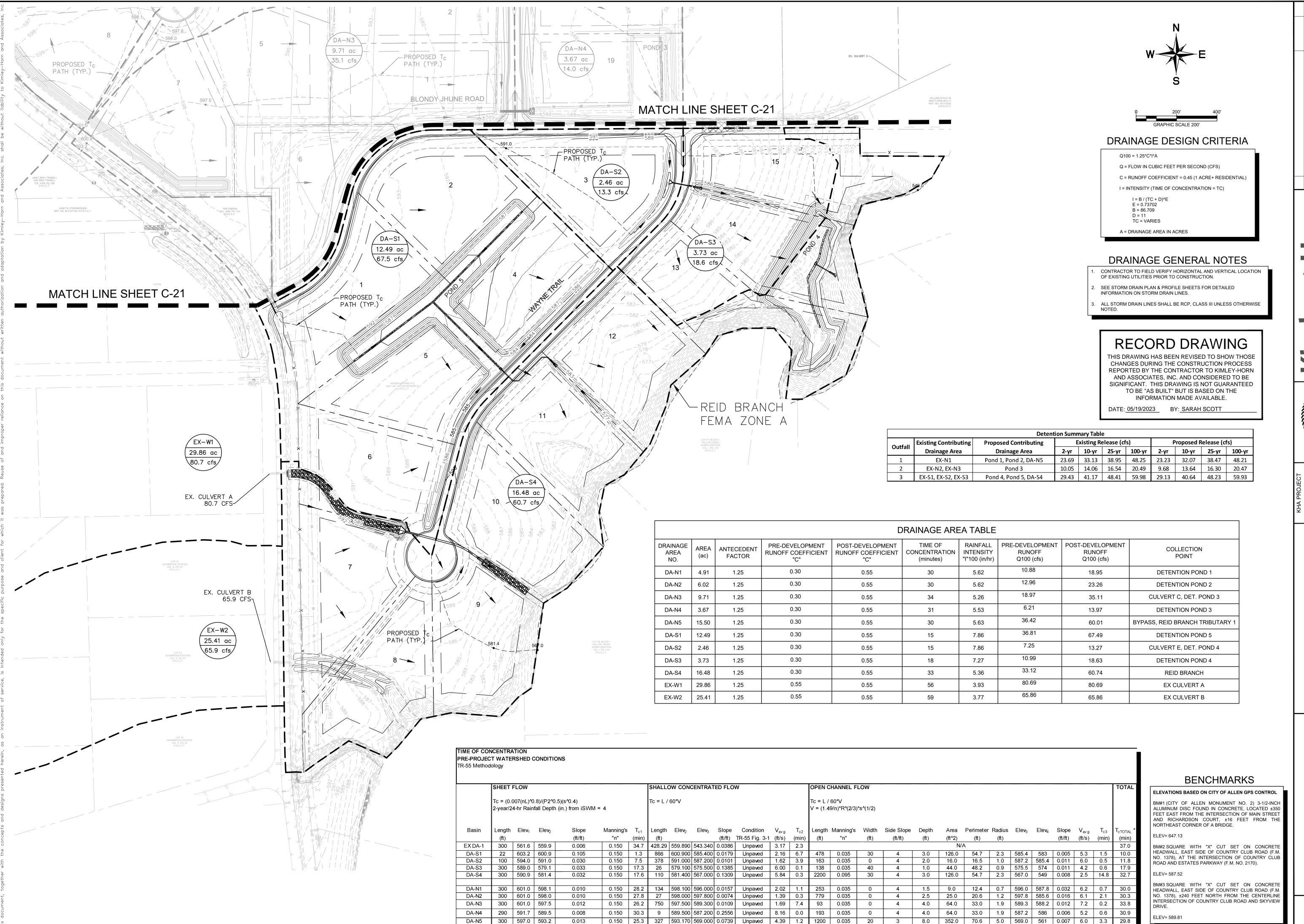
RE, 2)

BENCHMARKS

ELEVATIONS BASED ON CITY OF ALLEN GPS CONTROL NORTHEAST CORNER OF A BRIDGE.

ELEV= 647.13

ELEV= 587.52



RE, 2)

SHEET NUMBER

C-22

ŝ Drainage / Detention Calculations for Pond 1 H Modified Rational Method	Modified Rational Method 100-Year Event	
100-Year Event Existing Conditions Drainage Area EX-N1	Existing Conditions Drainage Area EX-N1 Area 27.53 acres	· · · · · · · · · · · · · · · · · · ·
Area 27.53 acres Time (T _c) 36.0 minutes C value 0.35	Time (T_c) 36.0 minutes C value 0.35 I_{100} 5.01 in/hr	<
□ I ₁₀₀ 5.01 in/hr	Q ₁₀₀ 48.25 cfs Proposed Conditions to Pond Bypass	
Proposed Conditions to Pond Bypass Drainage Area DA-N1 Drainage Area DA-N5 Bypass Area 4.9 acres Area 10.9 acres Time (T _c) 29.8 minutes Time (T _c) 31.3 minutes	Drainage Area DA-N5 East, N2 Drainage Area DA-N5 Bypass Area 10.61 acres Area 10.9 acres Time (T _c) 32.3 minutes Time (T _c) 31.3 minutes	
C value 0.55 C value 0.55 C value	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	
5.14 cfs Allowable Release 5.00 cfs Actual Release	10.70 cfs Allowable Release 9.90 cfs Actual Release	
Runoff per Storm Event - Developed Inflow per Storm Event	Runoff per Storm Event - Developed Inflow per Storm Event Time (min.) I ₁₀₀ C value Area (ac) Runoff (cfs) Storm Event Runoff (cfs) Inflow (ff 10 9.48 0.55 10.61 55.32 10 55.32 33, 15 7.96 0.55 10.61 46.45 15 46.45 41,	192
$ \tilde{\psi} $ 15 7.96 0.55 4.90 21.45 15 21.45 19,307 20 6.92 0.55 4.90 18.64 20 18.64 22,371 5 30 5.56 0.55 4.90 14.99 30 14.99 26,978 5 40 4.71 0.55 4.90 12.68 40 12.68 30,436	20 6.92 0.55 10.61 40.37 20 40.37 48, 30 5.56 0.55 10.61 32.45 30 32.45 58, 40 4.71 0.55 10.61 27.46 40 27.46 65,	439 415 903
50 4.11 0.55 4.90 11.08 50 11.08 33,227 1 60 3.67 0.55 4.90 9.88 60 9.88 35,581 6 70 3.32 0.55 4.90 8.96 70 8.96 37,628	50 4.11 0.55 10.61 23.98 50 23.98 71, 60 3.67 0.55 10.61 21.40 60 21.40 77, 70 3.32 0.55 10.61 19.40 70 19.40 81, 80 3.05 0.55 10.61 17.79 80 17.79 85,	044 475 408
90 2.82 0.55 4.90 7.61 90 7.61 41,082 100 2.63 0.55 4.90 7.10 100 7.10 42,578 110 2.47 0.55 4.90 6.66 110 6.66 43,957	90 2.82 0.55 10.61 16.47 90 16.47 88, 100 2.63 0.55 10.61 15.37 100 15.37 92, 110 2.47 0.55 10.61 14.42 110 14.42 95, 120 2.33 0.55 10.61 13.60 120 13.60 97,	194 180
120 2.33 0.55 4.90 6.28 120 6.28 45,238 130 2.21 0.55 4.90 5.95 130 5.95 46,436 140 2.10 0.55 4.90 5.66 140 5.66 47,563 150 2.00 0.55 4.90 5.40 150 5.40 48,628	130 2.21 0.55 10.61 12.89 130 12.89 100, 140 2.10 0.55 10.61 12.26 140 12.26 102, 150 2.00 0.55 10.61 11.70 150 11.70 105, 160 1.92 0.55 10.61 11.20 160 11.20 107,	548 988 294
5 160 1.92 0.55 4.90 5.17 160 5.17 49,638 180 1.77 0.55 4.90 4.77 180 4.77 51,518 360 1.09 0.55 4.90 2.95 360 2.95 63,664 720 0.67 0.55 4.90 1.81 720 1.81 78,070	180 1.77 0.55 10.61 10.33 180 10.33 111, 360 1.09 0.55 10.61 6.38 360 6.38 137, 720 0.67 0.55 10.61 3.91 720 3.91 169,	551 851 045
1440 0.41 0.55 4.90 1.10 1440 1.10 95,360	1440 0.41 0.55 10.61 2.39 1440 2.39 206,	
10 39.8 5.00 5,975 10 15,329 5,975 9,354 15 44.8 5.00 6,725 15 19,307 6,725 12,582 16 20 49.8 5.00 7,476 20 22,371 7,476 14,895 20 30 59.8 5.00 8,977 30 26,978 8,977 18,000	10 42.3 9.90 12,563 10 33,192 12,563 20, 15 47.3 9.90 14,048 15 41,806 14,048 27, 20 52.3 9.90 15,533 20 48,439 15,533 32, 30 62.3 9.90 18,503 30 58,415 18,503 39,	757 906
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	40 72.3 9.90 21,473 40 65,903 21,473 44, 50 82.3 9.90 24,443 50 71,946 24,443 47, 60 92.3 9.90 27,413 60 77,044 27,413 49, 70 102.3 9.90 30,383 70 81,475 30,383 51,	430 503 631
70 99.8 5.00 14,982 70 37,628 14,982 22,646 80 109.8 5.00 16,483 80 39,444 16,483 22,961 90 119.8 5.00 17,984 90 41,082 17,984 23,098 <== Controls 0.53 ac-ft 100 129.8 5.00 19,486 100 42,578 19,486 23,092	80 112.3 9.90 33,353 80 85,408 33,353 52, 90 122.3 9.90 36,323 90 88,956 36,323 52, 100 132.3 9.90 39,293 100 92,194 39,293 52,	055 632
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	120 152.3 9.90 45,233 120 97,954 45,233 52, 130 162.3 9.90 48,203 130 100,548 48,203 52, 140 172.3 9.90 51,173 140 102,988 51,173 51,	721 345 815
150 179.8 5.00 26,992 150 48,628 26,992 21,636 160 189.8 5.00 28,493 160 49,638 28,493 21,145 180 209.8 5.00 31,495 180 51,518 31,495 20,022 2 360 389.8 5.00 58,517 360 63,664 58,517 5,147		368 498
720 749.8 5.00 112,560 720 78,070 112,560 (34,490) 1440 1469.8 5.00 220,646 1440 95,360 220,646 (125,287)	720 752.3 9.90 223,433 720 169,045 223,433 (54,54) 720 1440 1472.3 9.90 437,273 1440 206,483 437,273 (230,54)	388)
Drainage / Detention Calculations for Pond 4 Modified Rational Method 100-Year Event	Drainage / Detention Calculations for Pond 5 Modified Rational Method	
Existing Conditions Drainage Area EX-S1, EX-S2, EX-S3 Area 34.61 acres	100-Year Event Existing Conditions Drainage Area EX-S1, EX-S2, EX-S3	
Existing Conditions	100-Year Event Existing Conditions	
Existing Conditions Drainage Area EX-S1, EX-S2, EX-S3 Area 34.61 acres Time (T _c) 36.7 minutes C value 0.35	Existing Conditions	
Existing Conditions Drainage Area EX-S1, EX-S2, EX-S3 Area 34.61 acres Time (T _c) 36.7 minutes C value 0.35 Italian C value 0.35 Italian C value 0.35 Italian C value C v	Existing Conditions	
Existing Conditions Drainage Area EX-S1, EX-S2, EX-S3 Area 34.61 acres Time (T _o) 36.7 minutes C value 0.35	Existing Conditions	
Existing Conditions Drainage Area EX-S1, EX-S2, EX-S3 Area	Existing Conditions	
Existing Conditions Drainage Area EX-S1, EX-S2, EX-S3 Area 34.61 acres Time (T ₀ 35.7 minutes Callule 0.35 M ₁₀₀ 4.95 in/hr Q ₁₀₀ 69.98 cfs	Existing Conditions Drainage Area	074 213
Existing Conditions Direinage Area Ex-S1, Ex-S2, Ex-S3	Drainage Area EX-S1, EX-S2, EX-S3 Area 34.61 acres Time (T _c) 36.7 minutes C value 0.35 I _{loo} 4.95 in/hr Q ₁₀₀ 59.98 cfs	074 213 022 765 580 694
Existing Conditions Drainage Area	Drainage Area	074 213 022 765 580 694 696 912
	Existing Conditions	074 213 022 765 580 694 696 912 542 718 530
Existing Conditions Distinge Area 24.51 Ex-32 (EX-3) 25.61 2	Drainage Area	074 213 022 765 580 694 696 912 542 718 530 045 310 365 237
	Drainage Area	074 213 022 765 580 694 696 912 542 718 530 045 310 365 237 951 526 317 277
	Existing Conditions Drainage Area EX-S1 EX-S2 EX-S3 Area 34.61 acres Time (T _o) 36.7 minutes C value 0.35 I _{loo} 4.95 in/hr Q _{tito} 59.98 cfs	074 213 022 765 580 694 696 912 542 718 530 045 310 365 237 951 526 317 277 999 070
	Existing Conditions Dirainage Area EX-S1, EX-S2, EX-S3 Area 34.61 acres Time (T _o) 36.7 minutes C value 0.35 Nos 4.95 in/hr	074 213 022 765 580 694 696 912 542 718 530 045 310 365 237 951 526 317 277 999 070 ft³) 679 744 478 072
Principal Prin	Existing Conditions Drainage Area EX-S1, EX-S2, EX-S3, EX-S2, EX-S3,	074 213 022 765 580 694 696 912 542 718 530 045 310 365 237 951 526 317 277 999 070 ft³) 679 744 478 072 738 702 554 621
	Existing Conditions Drainage Area EX-81, EX-82, EX-83 Afea 34.61 acres Time (T_0 36.7 minutes C value 0.35 loo 4.95 inhr Grow 5.98 e cfs Time (T_0 36.7 minutes C value 0.35 loo 4.95 inhr Grow 5.98 e cfs Time (T_0 36.7 minutes Time (T_0 36.7 minutes Time (T_0 32.7 minutes Time (T_0 32.7 minutes C value 0.55 C va	074 213 022 765 580 694 696 912 542 718 530 045 310 365 237 951 526 317 277 999 070 ft³) 679 744 478 072 738 702 554 621 101 127 790 155
Properties Confidence Con		074 213 022 765 580 694 696 912 542 718 530 045 310 365 237 951 526 317 277 999 070 ft³) 679 744 478 072 738 702 554 621 101 127 790 1555 272 176 899 464
Stating Conditions		074 213 022 765 580 694 696 912 542 718 530 045 3310 365 237 951 526 317 277 999 070 ft³) 679 744 478 072 738 702 554 621 101 127 790 155 272 176 899 464 889 <== Controls 1.99 ac-ft 382 650

Drainage / Detention Calculations for Pond 3 Modified Rational Method 100-Year Event

Existing	Conditions
Drainage Area	EX-N2, EX-N3
Area	11.88 acres
Time (T _c) C value	37.0 minutes
C value	0.35
I ₁₀₀	4.93 in/hr
Q ₁₀₀	20.49 cfs

Proposed C	onditions to Pond		Bypass
Drainage Area	DA-N3, DA-N4	Drainage Area	
Area	13.38 acres	Area	0 acres
Time (T _c)	34.0 minutes	Time (T _c)	0.0 minutes
C value	0.55	C value	0.00
I ₁₀₀	5.18 in/hr	I ₁₀₀	16.86 in/hr
Q ₁₀₀	38.10 cfs	Q ₁₀₀	0.00 cfs

38.10 cfs	Q ₁₀₀
20.49 cfs	Allowable Release
20.47 cfs	Actual Release

ınoff per Stoı	m Event -	Developed			Inflow per Stor	rm Event	
ime (min.)	I ₁₀₀	C value	Area (ac)	Runoff (cfs)	Storm Event	Runoff (cfs)	Inflow (ft ³)
10	9.48	0.55	13.38	69.76	10	69.76	41,85
15	7.96	0.55	13.38	58.58	15	58.58	52,720
20	6.92	0.55	13.38	50.90	20	50.90	61,08
30	5.56	0.55	13.38	40.93	30	40.93	73,66
40	4.71	0.55	13.38	34.63	40	34.63	83,109
50	4.11	0.55	13.38	30.24	50	30.24	90,729
60	3.67	0.55	13.38	26.99	60	26.99	97,159
70	3.32	0.55	13.38	24.46	70	24.46	102,746
80	3.05	0.55	13.38	22.44	80	22.44	107,706
90	2.82	0.55	13.38	20.77	90	20.77	112,180
100	2.63	0.55	13.38	19.38	100	19.38	116,264
110	2.47	0.55	13.38	18.19	110	18.19	120,029
120	2.33	0.55	13.38	17.16	120	17.16	123,527
130	2.21	0.55	13.38	16.26	130	16.26	126,799
140	2.10	0.55	13.38	15.46	140	15.46	129,876
150	2.00	0.55	13.38	14.75	150	14.75	132,783
160	1.92	0.55	13.38	14.12	160	14.12	135,542
180	1.77	0.55	13.38	13.03	180	13.03	140,67
360	1.09	0.55	13.38	8.05	360	8.05	173,840
720	0.67	0.55	13,38	4.93	720	4.93	213,179
1440	0.41	0.55	13.38	3.01	1440	3.01	260,390

flow per S	Storm Event			Detention Vol	ume			
Storm	Time	Release	Outflow (ft ³)	Storm	Inflow	Outflow	Storage (ft ³)	
10	44.0	20.47	27,020	10	41,858	27,020	14,838	
15	49.0	20.47	30,091	15	52,720	30,091	22,629	
20	54.0	20.47	33,161	20	61,085	33,161	27,924	
30	64.0	20.47	39,302	30	73,665	39,302	34,363	
40	74.0	20.47	45,443	40	83,109	45,443	37,665	
50	84.0	20.47	51,584	50	90,729	51,584	39,145	
60	94.0	20.47	57,725	60	97,159	57,725	39,433	<== Controls 0.91 ac-ff
70	104.0	20.47	63,866	70	102,746	63,866	38,880	
80	114.0	20.47	70,007	80	107,706	70,007	37,699	
90	124.0	20.47	76,148	90	112,180	76,148	36,031	
100	134.0	20.47	82,289	100	116,264	82,289	33,974	
110	144.0	20.47	88,430	110	120,029	88,430	31,598	
120	154.0	20.47	94,571	120	123,527	94,571	28,956	
130	164.0	20.47	100,712	130	126,799	100,712	26,087	
140	174.0	20.47	106,853	140	129,876	106,853	23,023	
150	184.0	20.47	112,994	150	132,783	112,994	19,789	
160	194.0	20.47	119,135	160	135,542	119,135	16,406	
180	214.0	20.47	131,417	180	140,675	131,417	9,257	
360	394.0	20.47	241,955	360	173,840	241,955	(68,115)	
720	754.0	20.47	463,031	720	213,179	463,031	(249,853)	
1440	1474.0	20.47	905,183	1440	260,390	905,183	(644,793)	

Detention Pond 1 - Outfall Structure Summary

Design	E1		Opening #1		(Opening #2	2	0	pening #3		То	tal
				Deten	tion Pond	2 - Outfall	Structure S	ummary				
	<u> </u>	✓	\ \\			~~		\		\		\
100-year	588.34	6.2	3.8	3.8	1.2	1.4	1.2	0.0	0.0	0.0	5.00	5.14
25-year	588.10	4.6	3.9	3.9	0.2	0.0	0.2	0.0	0.0	0.0	4.12	4.76
10-year	587.93	3.6	3.6	3.6	0.0	0.0	0.0	0.0	0.0	0.0	3.58	4.23
2-year	587.70	2.3	3.1	2.3	0.0	0.0	0.0	0.0	0.0	0.0	2.32	3.65
												L

Opening #2

Weir Orifice Actual Weir Orifice Actual

Opening #3

Weir Orifice Actual Actual Max

Total

Design	Elevation	Opening #1			Opening #2			Opening #3			Total	
Storm	Lievation	Weir	Orifice	Actual	Weir	Orifice	Actual	Weir	Orifice	Actual	Actual	Max
2-year	575.84	6.2	4.5	4.5	0.0	0.0	0.0	0.0	0.0	0.0	4.53	5.33
10-year	576.33	8.9	5.1	5.1	1.0	0.0	1.0	0.0	0.0	0.0	6.08	7.15
25-year	576.56	10.2	5.3	5.3	2.2	0.0	2.2	0.0	0.0	0.0	7.53	8.54
100-year	576.92	12.5	5.3	5.3	4.6	5.2	4.6	0.0	0.0	0.0	9.90	10.70

				Deten	tion Pond	3 - Outfall S	Structure S	ummary				
Design	Elevation	Opening #1			Opening #2			C	pening #3	Total		
Storm	Elevation	Weir	Orifice	Actual	Weir	Orifice	Actual	Weir	Orifice	Actual	Actual	Max
2-year	587.55	9.7	16.7	9.7	0.0	0.0	0.0	0.0	0.0	0.0	9.68	10.05
10-year	587.95	13.6	18.7	13.6	0.0	0.0	0.0	0.0	0.0	0.0	13.64	14.06
25-year	588.14	15.7	19.6	15.7	0.6	0.0	0.6	0.0	0.0	0.0	16.30	16.54
100-year	588.44	19.1	17.0	17.0	3.5	4.2	3.5	0.0	0.0	0.0	20.47	20.49

Design	Elevation	Opening #1			Opening #2			C	Opening #3	Total		
Storm	cievation	Weir	Orifice	Actual	Weir	Orifice	Actual	Weir	Orifice	Actual	Actual	Max
2-year	566.87	4.5	2.2	2.2	0.0	0.0	0.0	0.0	0.0	0.0	2.24	2.49
10-year	567.43	6.6	2.6	2.6	0.0	0.0	0.0	0.0	0.0	0.0	2.55	3.41
25-year	567.78	8.1	2.7	2.7	0.0	0.0	0.0	0.0	0.0	0.0	2.73	3.76
100-year	568.23	10.1	2.8	2.8	0.4	0.0	0.4	0.0	0.0	0.0	3.23	4.82

A A	A A A		A A A	A A .	 	 _ ^ _	 	

Detention Pond 5 - Outfall Structure Summary												
Design	Elevation	Opening #1			(Opening #2 Opening #					Total	
Storm	Elevation	Weir	Orifice	Actual	Weir	Orifice	Actual	Weir	Orifice	Actual	Actual	Max
2-year	585.39	7.4	3.3	3.3	0.0	0.0	0.0	0.0	0.0	0.0	3.31	3.61
10-year	585.84	9.6	3.6	3.6	1.2	1.4	1.2	0.0	0.0	0.0	4.75	5.29
25-year	586.06	10.7	3.7	3.7	2.1	2.4	2.1	0.0	0.0	0.0	5.88	6.06
100-year	586.38	12.4	3.7	3.7	3.9	3.4	3.4	0.0	0.0	0.0	7.17	7.22

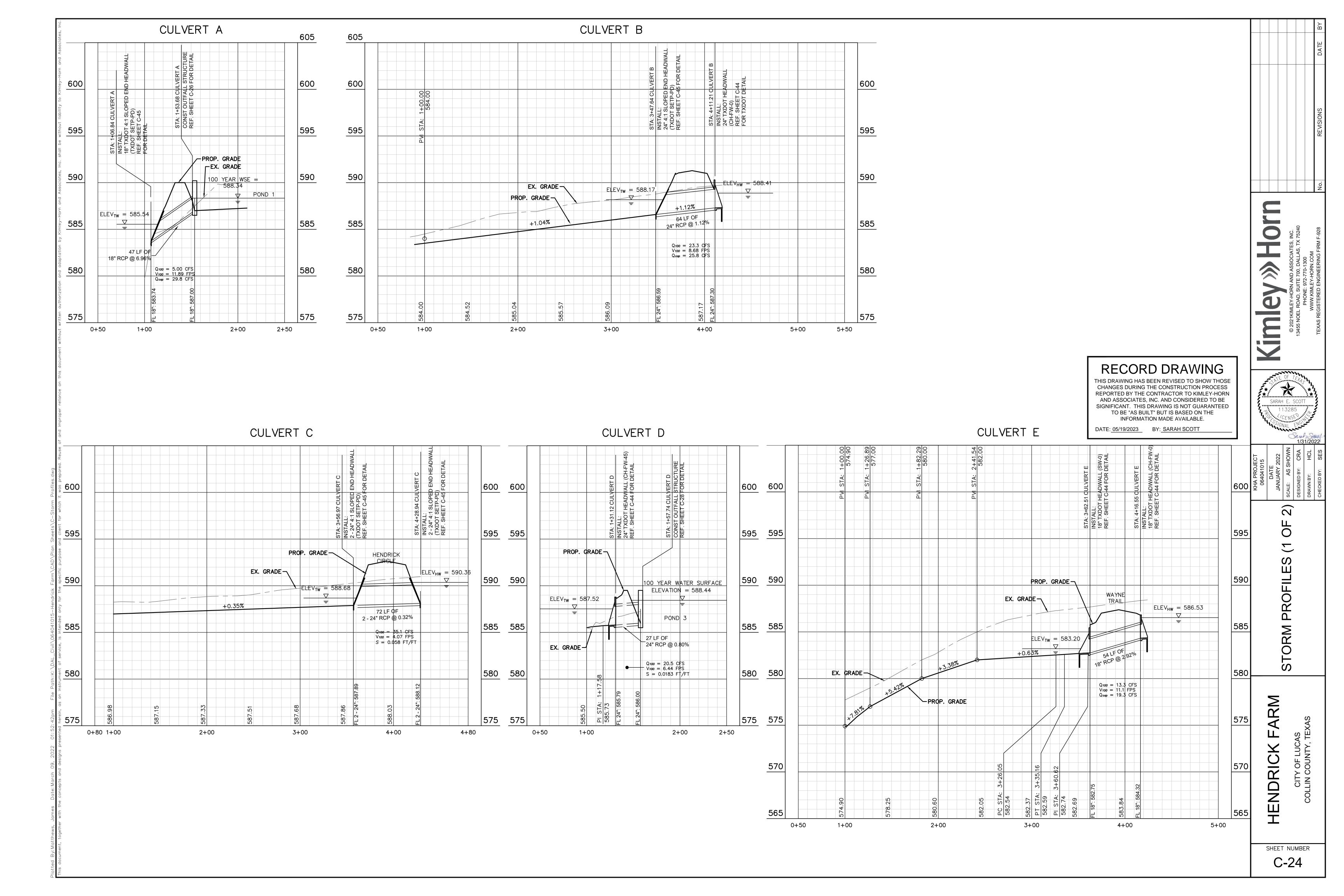
RECORD DRAWING

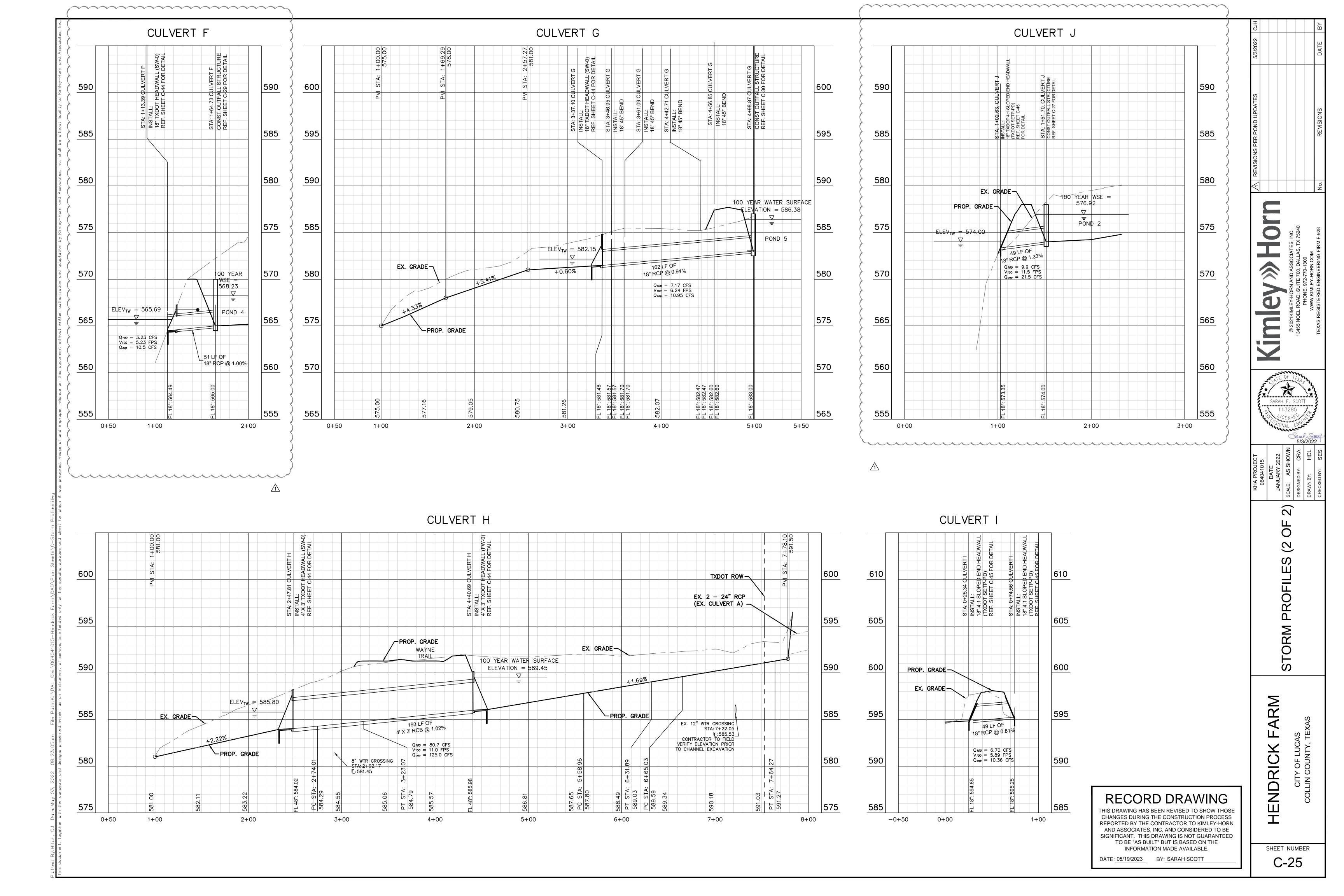
THIS DRAWING HAS BEEN REVISED TO SHOW THOSE CHANGES DURING THE CONSTRUCTION PROCESS REPORTED BY THE CONTRACTOR TO KIMLEY-HORN AND ASSOCIATES, INC. AND CONSIDERED TO BE SIGNIFICANT. THIS DRAWING IS NOT GUARANTEED TO BE "AS BUILT" BUT IS BASED ON THE INFORMATION MADE AVAILABLE.

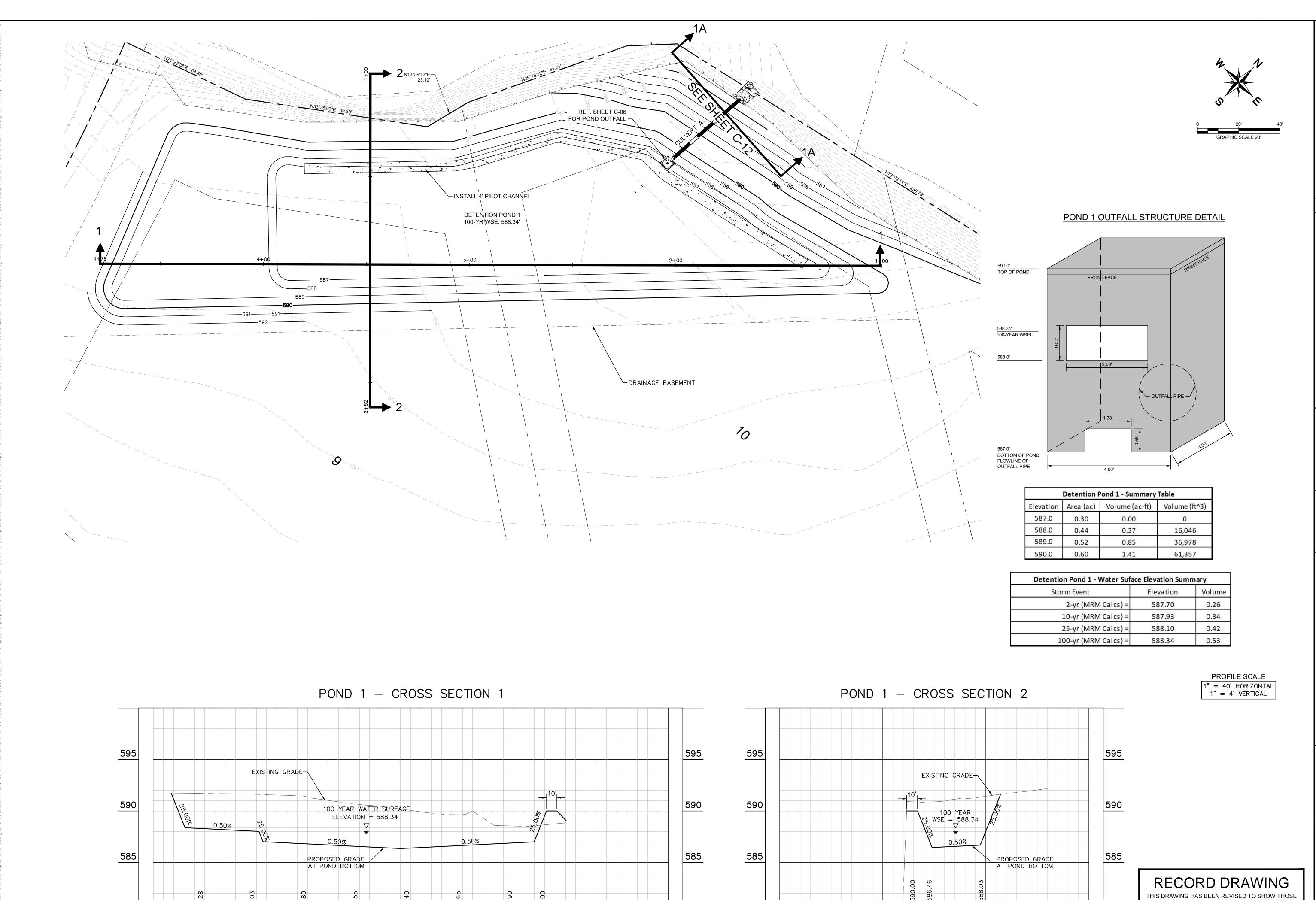
DATE: 05/19/2023 BY: SARAH SCOTT



DRAINAGE CALCULATIONS







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DATE: 05/19/2023 BY: SARAH SCOTT

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HENDRICK

ETENTION POND F

