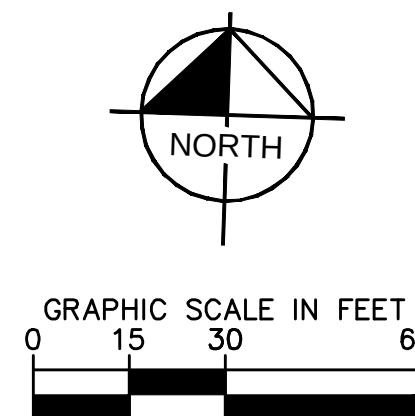
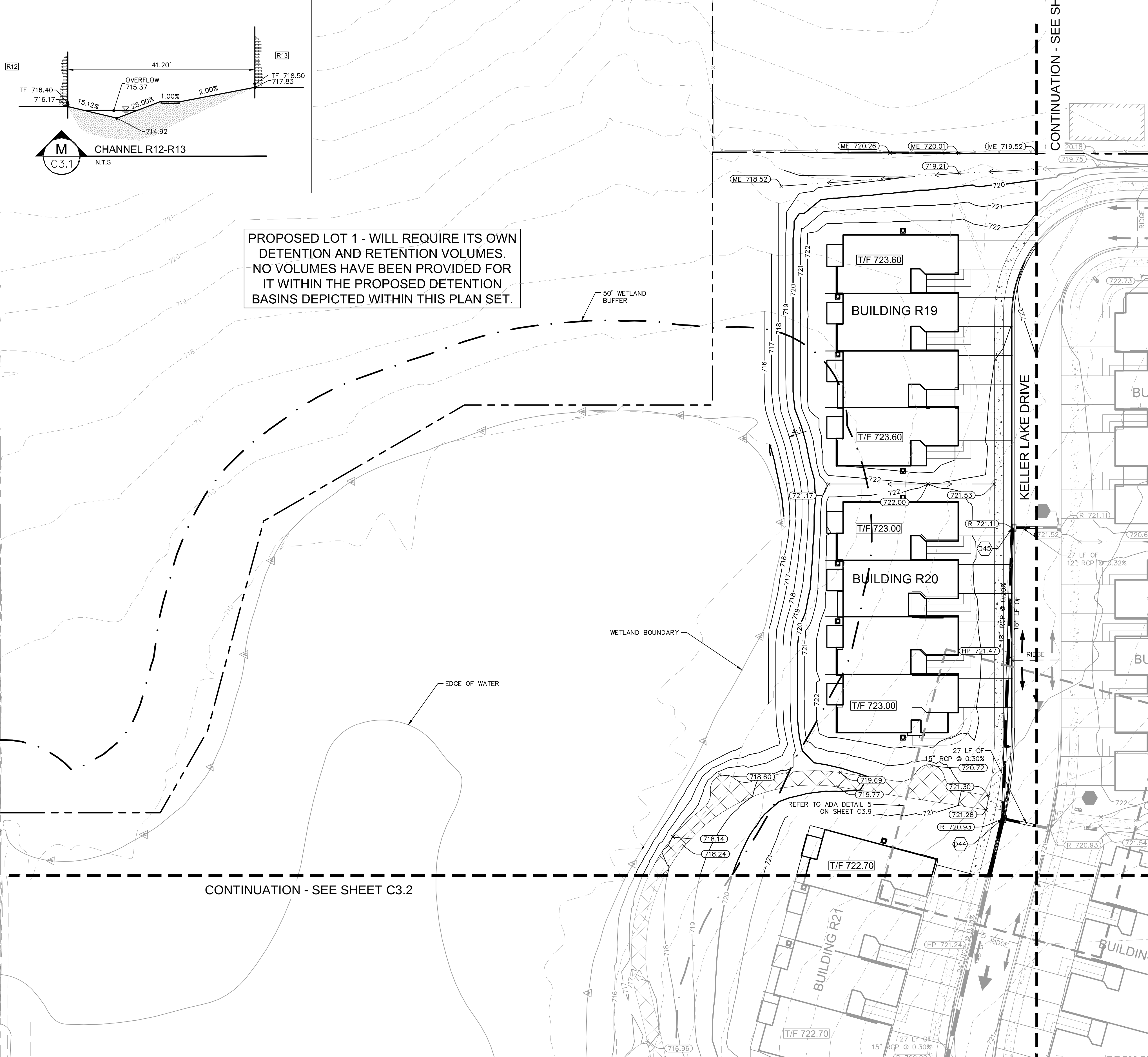
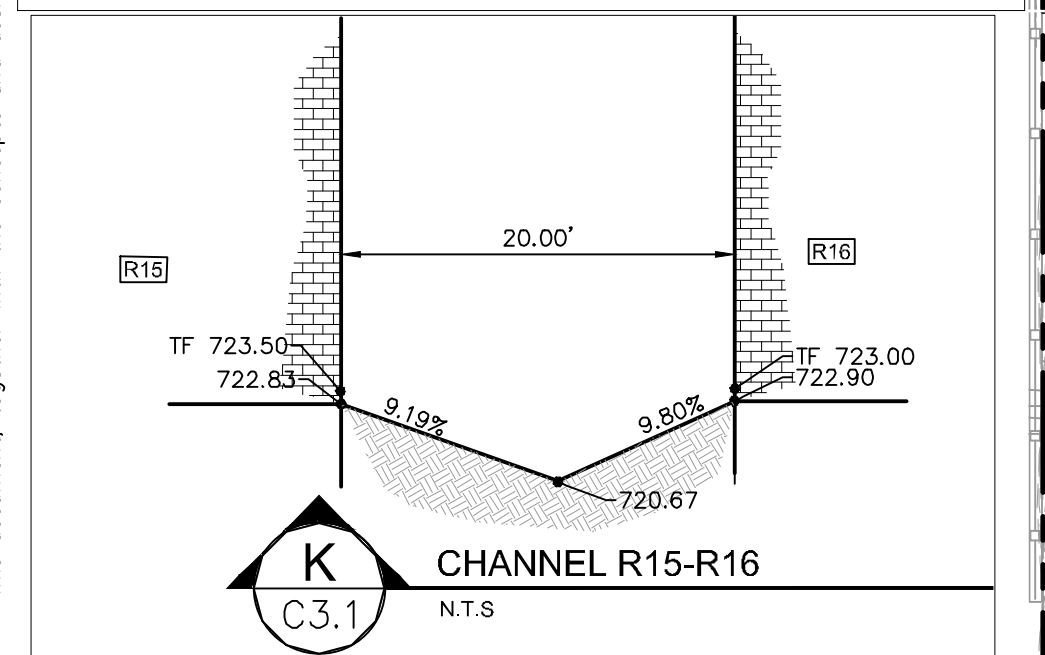
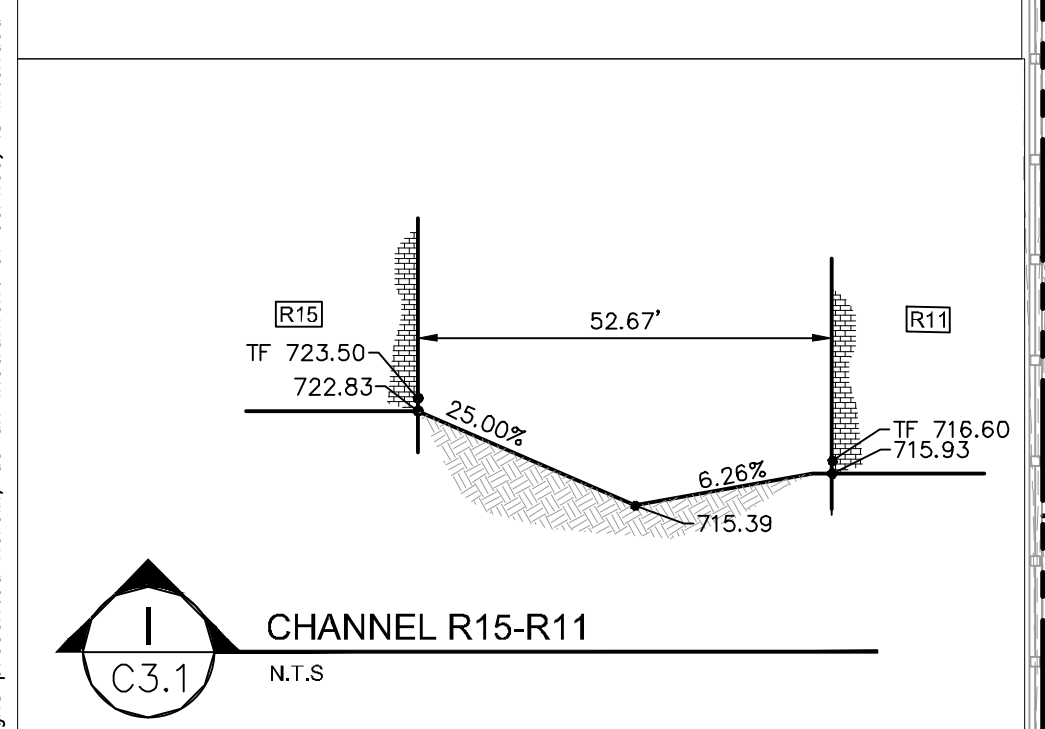
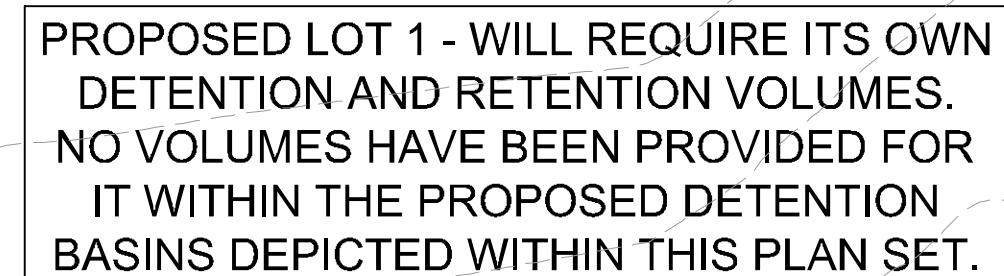
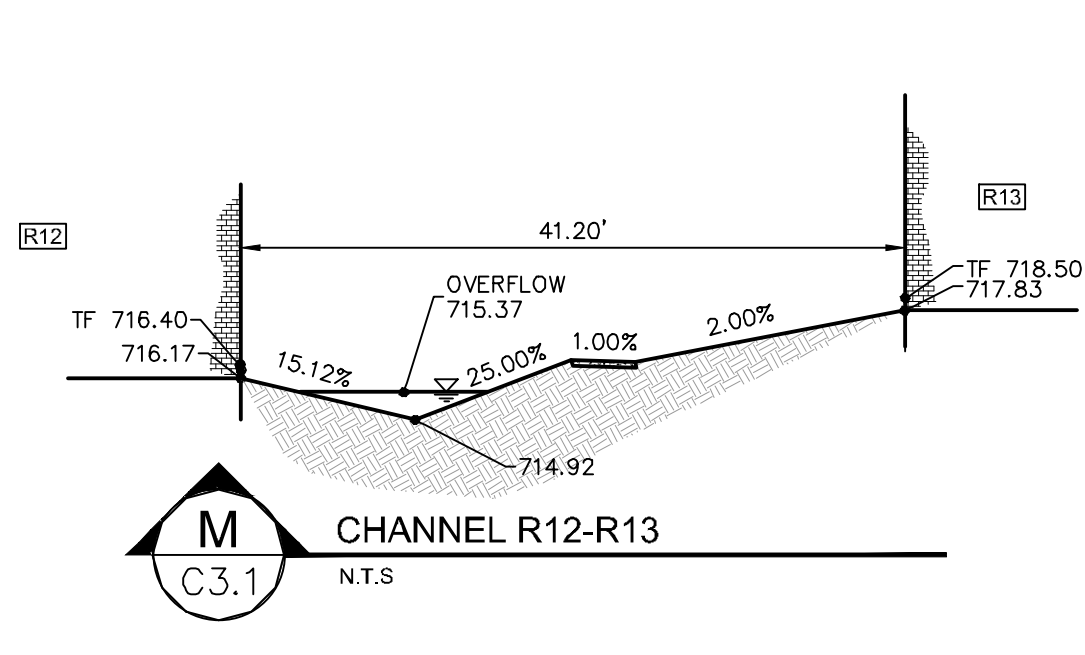
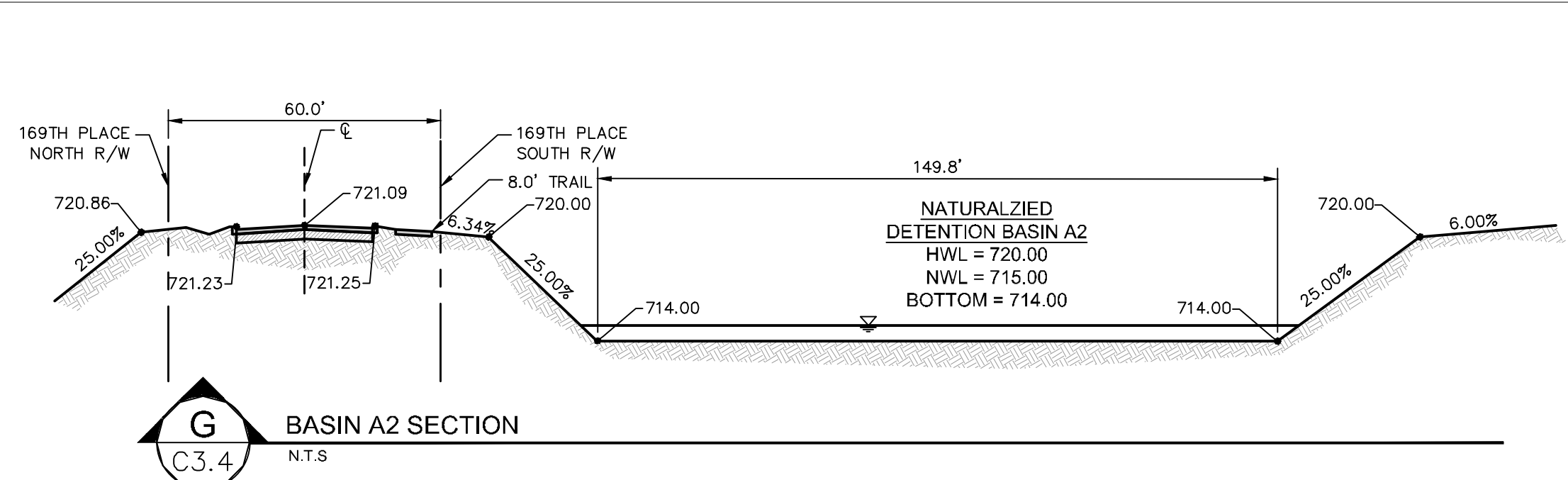
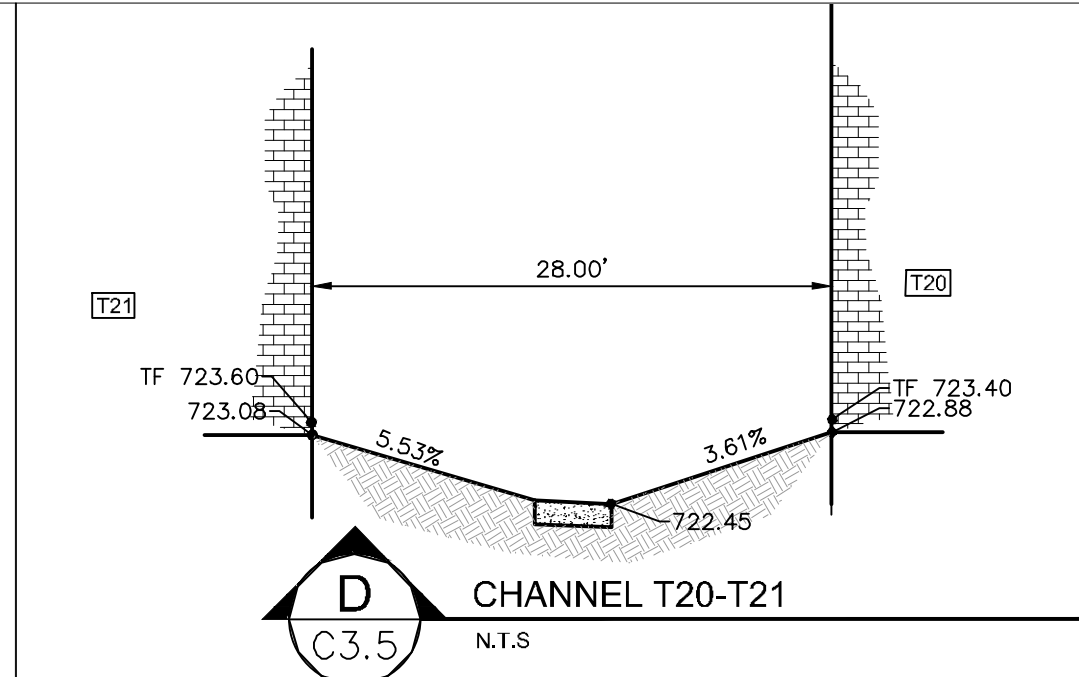




1. ALL PAVEMENT SLOPE GRADE ELEVATIONS AND RIM ELEVATIONS WITHIN OR ALONG CURB AND GUTTER REFER TO FLOW LINE ELEVATIONS UNLESS OTHERWISE NOTED.
2. ALL ELEVATIONS SHOWN DEPICT FINISHED GRADE UNLESS OTHERWISE NOTED. GENERAL CONTRACTOR TO COORDINATE WITH EXCAVATION, LANDSCAPE AND PAVING SUBCONTRACTORS REGARDING TOPSOIL THICKNESS FOR LANDSCAPE AREAS AND PAVEMENT SECTION THICKNESS FOR PAVED AREAS TO PROPERLY ENSURE ADEQUATE CUT TO ESTABLISH SUBGRADE ELEVATIONS.
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ME = MATCH ELEVATION
TF = TOP OF FOUNDATION
R = RIM ELEVATION
FG = FINISHED GRADE
TS = TOP OF STAIRS
BS = BOTTOM OF STAIRS

—XXX— PROPOSED CONTOUR
- - -XXX- - - EXISTING CONTOUR
RIDGE RIDGE LINE
X<<< SLOPE AND FLOW DIRECTION
100-YEAR OVERLAND OVERFLOW ROUTE
⇐ DETENTION BASIN 100-YEAR EMERGENCY OVERLAND OVERFLOW ROUTE
— · · · ⇐ PROPOSED SWALE
PROPOSED RETAINING WALL
V V V V V REVERSED PITCH CURB AND GUTTER
—AR— ACCESSIBLE ROUTE
RIP RAP (SEE DETAILS)

PROPOSED OPEN LID STORM STRUCTURE (PAVEMENT USE NEENAH R-2540) (GRASS USE NEENAH R-4340-B BEEHIVE)
PROPOSED CLOSED LID STORM STRUCTURE (PAVEMENT USE NEENAH R-1772) (GRASS USE NEENAH R-1786)

PROPOSED COMBINATION CURB INLET (B6.12 C&G USE NEENAH R-3281-A) (FOR MOUNTABLE CURB USE NEENAH R-2540 REFER TO DETAILS)

PROPOSED STORM SEWER LINE

STORM STRUCTURE TABLE	
STRUCTURE NAME:	DETAILS:
D44	4' DIA. MH – OPEN LID RIM: 720.93 INV IN: 716.62 (N) INV IN: 716.87 (E) INV OUT: 716.12 (S)
D45	4' DIA. MH – OPEN LID RIM: 721.11 INV IN: 717.44 (E) INV OUT: 716.94 (S)

No.	DATE	BY
1	11/21/18	WAW
2	10/15/19	WAW
3	11/21/18	WAW
4	12/20/19	WAW
5	01/09/20	WAW
6	02/05/20	WAW
7	02/04/20	SKA
8	02/14/20	WAW
9	02/14/20	WAW
10	02/14/20	WAW
11	02/14/20	WAW
12	02/14/20	WAW
13	02/14/20	WAW
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97	02/14/20	WAW
98	02/14/20	WAW
99	02/14/20	WAW
100	02/14/20	WAW

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LISLE, IL 60532
PHONE: 630-487-5550
WWW.KIMLEY-HORN.COM

SCALE:	AS NOTED
DESIGNED BY:	TRE
DRAWN BY:	JDC
CHECKED BY:	WAW

S.R. JACOBSON
DEVELOPMENT CORPORATION

GRADING AND DRAINAGE PLAN

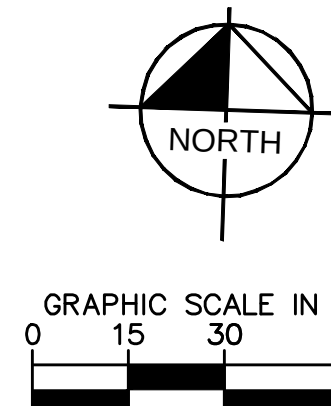
ORLAND RIDGE
GRANGE ROAD & 171ST STREET
ORLAND PARK, IL 60487

ORIGINAL ISSUE:
07/17/2019
KHA PROJECT NO.
168626000
SHEET NUMBER

C3.0

1. ALL PAVEMENT STOP GRADE ELEVATIONS AND RISE ELEVATIONS WITHIN OR ALONG CURB AND GUTTER REFER TO FLOW LINE ELEVATIONS UNLESS OTHERWISE NOTED.
2. ALL ELEVATIONS SHOWN DEPICT FINISHED GRADE UNLESS OTHERWISE NOTED. GENERAL CONTRACTOR TO COORDINATE WITH EXCAVATION, LANDSCAPE AND PAVING SUBCONTRACTORS REGARDING TOPSOIL THICKNESS FOR LANDSCAPE AREAS AND PAVEMENT SECTION THICKNESS FOR PAVED AREAS TO PROPERLY ENSURE ADEQUATE OUT TO ESTABLISH SUBGRADE ELEVATIONS.
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1-800-892-0123

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PROPOSED CONTOUR
EXISTING CONTOUR

RIDGE LINE

SLOPE AND FLOW DIRECTION

100-YEAR OVERLAND OVERFLOW ROUTE

DETENTION BASIN 100-YEAR EMERGENCY
OVERLAND OVERFLOW ROUTE

PROPOSED SWALE

PROPOSED RETAINING WALL

REVERSED PITCH CURB AND GUTTER

ACCESSIBLE CURB

RIP RAP (SEE DETAILS)

PROPOSED OPEN LID STORM STRUCTURE
(PAVEMENT USE NEENAH R-2540)
(GRASS USE NEENAH R-4340-B BEEHIVE)
(PAVEMENT USE NEENAH R-1772)
(GRASS USE NEENAH R-1786)

PROPOSED COMBINATION CURB INLET
(66.12 CONC USE NEENAH R-3281-A)
(FOR MARGINAL CURB USE NEENAH
R-2540 REFER TO DETAILS)

PROPOSED STORM SEWER LINE

STORM STRUCTURE TABLE	
STRUCTURE NAME:	DETAILS:
D24	4' DIA. MH — CLOSED LID RIM: 714.92 INV IN: 707.13 (S) INV OUT: 707.13 (N)
D25	4' DIA. MH — OPEN LID RIM: 713.77 INV IN: 707.30 (S) INV OUT: 707.30 (N)
D46	2' INLET RIM: 721.11 INV OUT: 717.53 (W)
D49	2' INLET RIM: 720.93 INV OUT: 716.95 (W)
XD1	CONNECT TO EX. MANHOLE WITH CORE AND BOOT CONNECTION RIM: 707.58 INV IN: 706.35 (W)

A detailed site plan of the proposed development. The plan shows a large rectangular building footprint on the left, a central parking area with several marked spaces, and a series of smaller, rectangular building footprints arranged in a row on the right. Landscaping areas are indicated by wavy lines and hatching. A north arrow is located in the upper right corner of the plan.

S.R. JACOBSON
DEVELOPMENT CORPORATION

GRADING AND DRAINAGE PLAN

ORLAND RIDGE
GRANGE ROAD & 171ST STREET
ORLAND PARK, IL 60487

ORIGINAL ISSUE:
07/17/2019
CHA PROJECT NO
168626000

C3.1

A	REVISED PER VILLAGE/CDDOT COMMENTS	02/14/20	WAW
A	ADDENDUM 1 – LANDSCAPE	02/06/20	SRA
A	REVISED PER IDOT COMMENTS	02/05/20	WAW
A	LANDSCAPE REV PER VILLAGE COMMENTS	01/09/20	WAW
A	REVISED PER VILLAGE/MNRD/CDDOT COM.	12/20/19	WAW
A	REVISED PER CDDOT COMMENTS	11/21/19	WAW
A	REVISED PER VILLAGE/MNRD COMMENTS	10/15/19	WAW
No.	REVISIONS	DATE	BY

SCALE:	AS NOTED
DESIGNED BY:	TRE
DRAWN BY:	JDC
CHECKED BY:	WAW

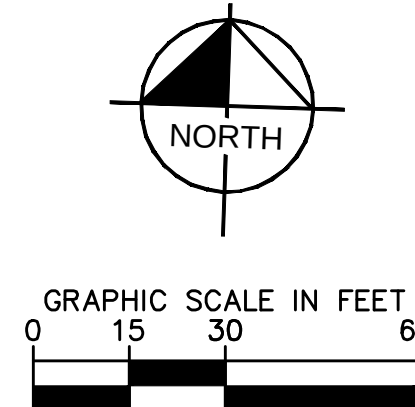
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C3.1



GRADING NOTES

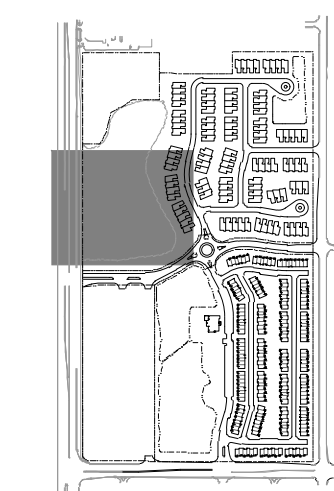
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GRADING LEGEND

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- XXX— PROPOSED CONTOUR
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RIDGE RIDGE LINE
X XXX SLOPE AND FLOW DIRECTION
← 100-YEAR OVERFLOW FLOW LINE
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PROPOSED STORM SEWER LINE

STORM STRUCTURE TABLE	
STRUCTURE NAME:	DETAILS:
D42	4' DIA. MH - OPEN LID RIM: 720.67 INV IN: 715.60 (N) INV IN: 716.35 (NE) INV OUT: 715.10 (SE)
D43	4' DIA. MH - OPEN LID RIM: 720.82 INV IN: 716.61 (E) INV IN: 715.86 (N) INV OUT: 715.86 (S)
D47	2' INLET RIM: 720.67 INV OUT: 716.43 (SW)
D48	2' INLET RIM: 720.82 INV OUT: 716.69 (W)

KEY MAP



ORLAND RIDGE LAGRANGE ROAD & 171ST STREET ORLAND PARK, IL 60487	SR JACOBSON ARCHITECTURAL CONSULTANTS	SCALE:	AS NOTED	Kimley»Horn © 2020 KIMLEY-HORN AND ASSOCIATES, INC. 1001 WARRENVILLE ROAD, SUITE 350, LIBERTYVILLE, IL 60532-7550 WWW.KIMLEY-HORN.COM	☒ REVISED PER VILLAGE/CDOT COMMENTS	02/14/20	WAW
		DESIGNED BY: TRE	☒ ADDENDUM 1 – LANDSCAPE		02/06/20	SKA	
		DRAWN BY: JDC	☒ REVISED PER IDOT COMMENTS		02/05/20	WAW	
		CHECKED BY: WAW	☒ LANDSCAPE REV PER VILLAGE COMMENTS		01/09/20	WAW	
			☒ REVISED PER VILLAGE/MWRD/CDOT COM.		11/20/19	WAW	
			☒ REVISED PER CDOT COMMENTS		11/21/19	WAW	
		☒ REVISED PER VILLAGE/MWRD COMMENTS	10/15/19		WAW		
		NO	REVISIONS		DATE	RY	

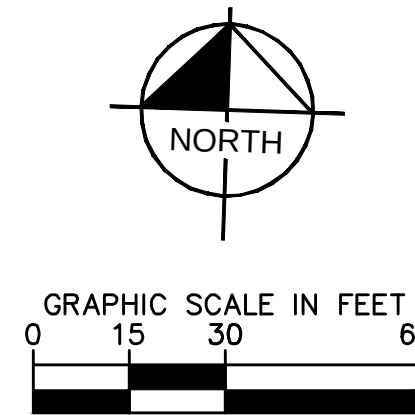
C3.2

Drawing name: K:\GIS_DEVELOPMENT\16862600_SR Jacobson_Grand Park_IL_V2 Design\CAD\PlanSheets\Final Engineering\C3.0 GRADING AND DRAINAGE PLAN.dwg C3.3 Feb 13, 2020 3:00pm by: TaylorSeaborn
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GRADING NOTES

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GRADING LEGEND

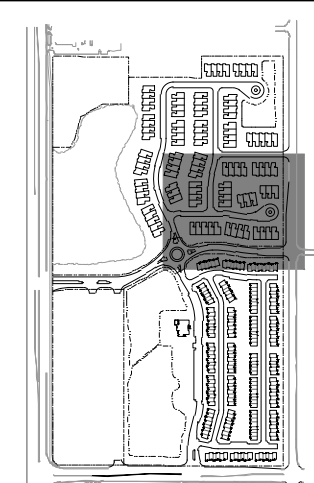
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PROPOSED RETAINING WALL
REVERSED PITCH CURB AND GUTTER
ACCESSIBLE ROUTE
RIP RAP (SEE DETAILS)
PROPOSED OPEN LID STORM STRUCTURE (PAVEMENT USE NEENAH R-2500) (GRASS USE NEENAH R-4340-B BEEHIVE)
PROPOSED CLOSED LID STORM STRUCTURE (PAVEMENT USE NEENAH R-1772) (GRASS USE NEENAH R-1786)
PROPOSED COMBINATION CURB INLET (B6.12 C&G USE NEENAH R-3281-A) (FOR MOUNTABLE CURB USE NEENAH R-2540 REFER TO DETAILS)
PROPOSED STORM SEWER LINE

STORM STRUCTURE TABLE	
STRUCTURE NAME:	DETAILS:
D21	24" NYLOPLAST DRAIN RIM: 718.05 INV OUT: 713.75 (N)
D26	4" DIA. MH - OPEN LID RIM: 713.77 INV IN: 707.56 (W) INV OUT: 707.95 (SE) INV OUT: 707.56 (N)
D27	4" DIA. MH - CLOSED LID RIM: 714.65 INV IN: 708.68 (S) INV OUT: 708.18 (NW)
D28	24" NYLOPLAST DRAIN RIM: 713.50 INV OUT: 709.34 (N)
D29	4" DIA. MH - OPEN LID RIM: 711.48 (W) INV IN: 710.29 (SE) INV OUT: 707.85 (E)
D30	2" INLET RIM: 716.40 INV OUT: 712.29 (E)
D31	12" NYLOPLAST DRAIN RIM: 714.71 INV OUT: 710.59 (NW)
D39	4" DIA. MH - OPEN LID RIM: 722.23 INV IN: 714.21 (N) INV OUT: 714.21 (S)
D40	4" DIA. MH - OPEN LID RIM: 721.45 INV IN: 714.30 (N) INV OUT: 714.30 (S)
D41	5" DIA. MH - OPEN LID RIM: 720.58 INV IN: 714.87 (NE) INV IN: 714.87 (NW) INV OUT: 714.37 (S)
D50	4" DIA. MH - OPEN LID RIM: 720.58 INV IN: 714.91 (NE) INV OUT: 714.91 (SW)
D51	4" DIA. MH - OPEN LID RIM: 720.22 INV IN: 715.48 (E) INV IN: 715.48 (N) INV OUT: 714.98 (SW)
D52	4" DIA. MH - CLOSED LID RIM: 720.89 INV IN: 715.71 (E) INV IN: 716.21 (N) INV OUT: 715.71 (W)
D53	4" DIA. MH - OPEN LID RIM: 720.26 INV IN: 716.39 (N) INV IN: 716.39 (E) INV OUT: 715.89 (W)
D54	4" DIA. MH - OPEN LID RIM: 721.05 INV IN: 716.90 (S) INV OUT: 716.65 (W)
D55	2" INLET RIM: 721.13 INV OUT: 716.99 (N)

STORM STRUCTURE TABLE	
STRUCTURE NAME:	DETAILS:
D56	4" DIA. MH - OPEN LID RIM: 720.22 INV IN: 716.52 (NE) INV OUT: 715.52 (S)
D57	12" NYLOPLAST DRAIN RIM: 719.46 INV OUT: 716.69 (SW)
D58	2" INLET RIM: 720.58 INV OUT: 716.30 (S)
D59	2" INLET RIM: 720.26 INV OUT: 716.44 (S)
D64	2" INLET RIM: 721.64 INV OUT: 717.47 (S)
D65	4" DIA. MH - OPEN LID RIM: 720.96 INV IN: 715.97 (N) INV OUT: 715.97 (S)
D66	12" NYLOPLAST DRAIN RIM: 719.77 INV IN: 716.51 (E) INV OUT: 716.01 (S)
D67	12" NYLOPLAST DRAIN RIM: 715.54 INV OUT: 716.77 (W)
D69	4" DIA. MH - OPEN LID RIM: 721.37 INV IN: 716.51 (N) INV OUT: 716.51 (S)
D70	12" NYLOPLAST DRAIN RIM: 720.00 INV IN: 716.58 (E) INV OUT: 716.58 (S)
D71	12" NYLOPLAST DRAIN RIM: 719.50 INV OUT: 716.84 (W)

THE DETENTION POND VOLUMES PROVIDED WERE DETERMINED UPON THE USE OF THE VILLAGE OF ORLAND PARK LDC RELEASE RATES. POND RESTRICTORS HAVE BEEN OVERSIZED TO MAINTAIN HYDROLOGY OF DOWNSTREAM JURISDICTIONAL WETLAND. NO EXCESS VOLUME HAS BEEN PROVIDED WITHIN PONDS FOR USE BEYOND THE LIMITS OF THIS DEVELOPMENT. NO CHANGE TO OUTLET RESTRICTORS IS ALLOWED WITHOUT PRIOR APPROVAL OF THE VILLAGE.

KEY MAP



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Lisle, IL 60532
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SR.JACOBSON
CONSULTANTS

ORLAND RIDGE
LAGRANGE ROAD & 171ST STREET
ORLAND PARK, IL 60487

ORIGINAL ISSUE:
07/17/2019
KHA PROJECT NO.
168626000
SHEET NUMBER
C3.3

SCALE:	AS NOTED	DESIGNED BY: THE	JDC	CHECKED BY: WAW
REVISIONS	DATE	BY	DATE	REVISIONS
NO.				

REVISED PER VILLAGE/CCDOT COMMENTS

ADDENDUM 1 - LANDSCAPE

REVISED PER DOT COMMENTS

LANDSCAPE REV PER VILLAGE COMMENTS

REVISED PER VILLAGE/MWRD/CCDOT COM.

REVISED PER CCOT COMMENTS

REVISED PER VILLAGE/MWRD COMMENTS

CONTINUATION - SEE SHEET C3.2

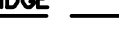
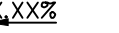
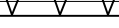
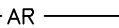
CONTINUATION - SEE SHEET C3.6

GRADING NOTES

1. ALL PAVEMENT SPOT GRADE ELEVATIONS AND RIM ELEVATIONS WITHIN OR ALONG CURB AND GUTTER REFER TO FLOW LINE ELEVATIONS UNLESS OTHERWISE NOTED.
2. ALL ELEVATIONS SHOWN DEPicted FINISHED GRADE UNLESS OTHERWISE NOTED. GENERAL CONTRACTOR TO COORDINATE WITH EXCAVATION, LANDSCAPE AND PAVING SUBCONTRACTORS REGARDING TOPSOIL THICKNESS FOR LANDSCAPE AREAS AND PAVEMENT SECTION THICKNESS FOR PAVED AREAS TO PROPERLY ENSURE ADEQUATE CUT TO ESTABLISH SUBGRADE ELEVATIONS.
3. NO EARTHEN SLOPE SHALL BE GREATER THAN 4:1, UNLESS OTHERWISE NOTED.
4. MAXIMUM SLOPE IN ACCESSIBLE PARKING SPACES AND LOADING ZONES SHALL NOT EXCEED 2.0% IN ALL DIRECTIONS.
5. MAXIMUM RUNNING SLOPE SHALL NOT EXCEED 5% AND CROSS SLOPE SHALL NOT EXCEED 2% ON ALL SIDEWALKS AND ACCESSIBLE ROUTES.
6. MATCH EXISTING ELEVATIONS AT THE PROPERTY LIMITS.
7. ALL ONSITE CONCRETE SIDEWALK IS DESIGNED AT 1% CROSS SLOPE UNLESS OTHERWISE NOTED.

GRADING LEGEND

FL = FLOW LINE
TC = TOP OF CURB
ME = MATCH ELEVATION
TF = TOP OF FOUNDATION
R = RIM ELEVATION
FG = FINISHED GRADE
TS = TOP OF STAIRS
BS = BOTTOM OF STAIRS

	PROPOSED CONTOUR
	EXISTING CONTOUR
	RIDGE LINE
	SLOPE AND FLOW DIRECTION
	100-YEAR OVERLAND OVERFLOW ROUTE
	DETENTION BASIN 100-YEAR EMERGENCY OVERFLOW ROUTE
	PROPOSED SWALE
	PROPOSED RETAINING WALL
	REVERSED PITCH CURB AND GUTTER
	ACCESSIBLE ROUTE
	RIP RAP (SEE DETAILS)
	PROPOSED OPEN LID STORM STRUCTURE (PAVEMENT USE NEENAH R-2540) (GRASS USE NEENAH X-4340-B BEEHIVE)
	PROPOSED CLOSED LID STORM STRUCTURE (PAVEMENT USE NEENAH R-1772) (GRASS USE NEENAH R-1786)
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	PROPOSED STORM SEWER LINE

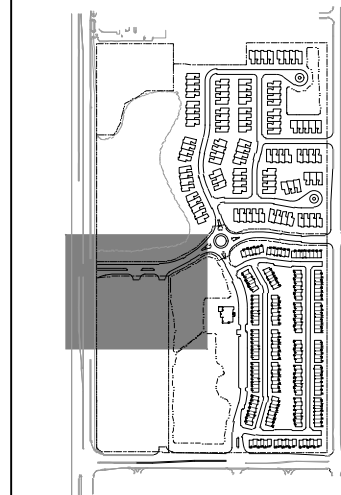
STORM STRUCTURE TABLE

STRUCTURE NAME:	DETAILS:
D75	4" DIA. MH - OPEN LID RIM: 720.58 INV IN: 715.83 (NW) INV OUT: 715.83 (SE)
D76	2" INLET RIM: 720.55 INV OUT: 716.46 (SE)
D78	4" DIA. MH - OPEN LID RIM: 720.47 INV IN: 716.12 (NW) INV OUT: 715.63 (SE)
D79	2" INLET RIM: 720.33 INV OUT: 716.25 (SE)
D112	4" DIA. MH - CLOSED LID RIM: 721.00 INV IN: 715.00 (S) INV OUT: 715.00 (N)
D113	4" DIA. MH - CLOSED LID RIM: 724.52 INV IN: 715.00 (S) INV OUT: 715.00 (N)

FES TABLE

STRUCTURE NAME:	DETAILS:
D34	18" FES INV IN: 714.90 (SE)
D36	18" FES INV OUT: 715.00 (NW)
D74	12" FES INV IN: 715.00 (NW)
D77	18" FES INV IN: 715.21 (NW)
D111	18" FES INV IN: 715.00 (S)
D164	12" FES INV IN: 716.00 (E)

KEY MAP



THE DETENTION POND VOLUMES PROVIDED WERE DETERMINED UPON THE USE OF THE VILLAGE OF ORLAND PARK LDC RELEASE RATES. POND RESTRICTORS HAVE BEEN OVSIZED TO MAINTAIN HYDROLOGY OF DOWNSTREAM JURISDICTIONAL WETLAND. NO EXCESS VOLUME HAS BEEN PROVIDED WITHIN PONDS FOR USE BEYOND THE LIMITS OF THIS DEVELOPMENT. NO CHANGE TO OUTLET RESTRICTORS IS ALLOWED WITHOUT PRIOR APPROVAL OF THE VILLAGE.

Kimley»»Horn

S.R. JACOBSON
DEVELOPMENT CORPORATION

GRADING AND DRAINAGE PLAN

ORLAND RIDGE
LAGRANGE ROAD & 171ST STREET
ORLAND PARK, IL 60487

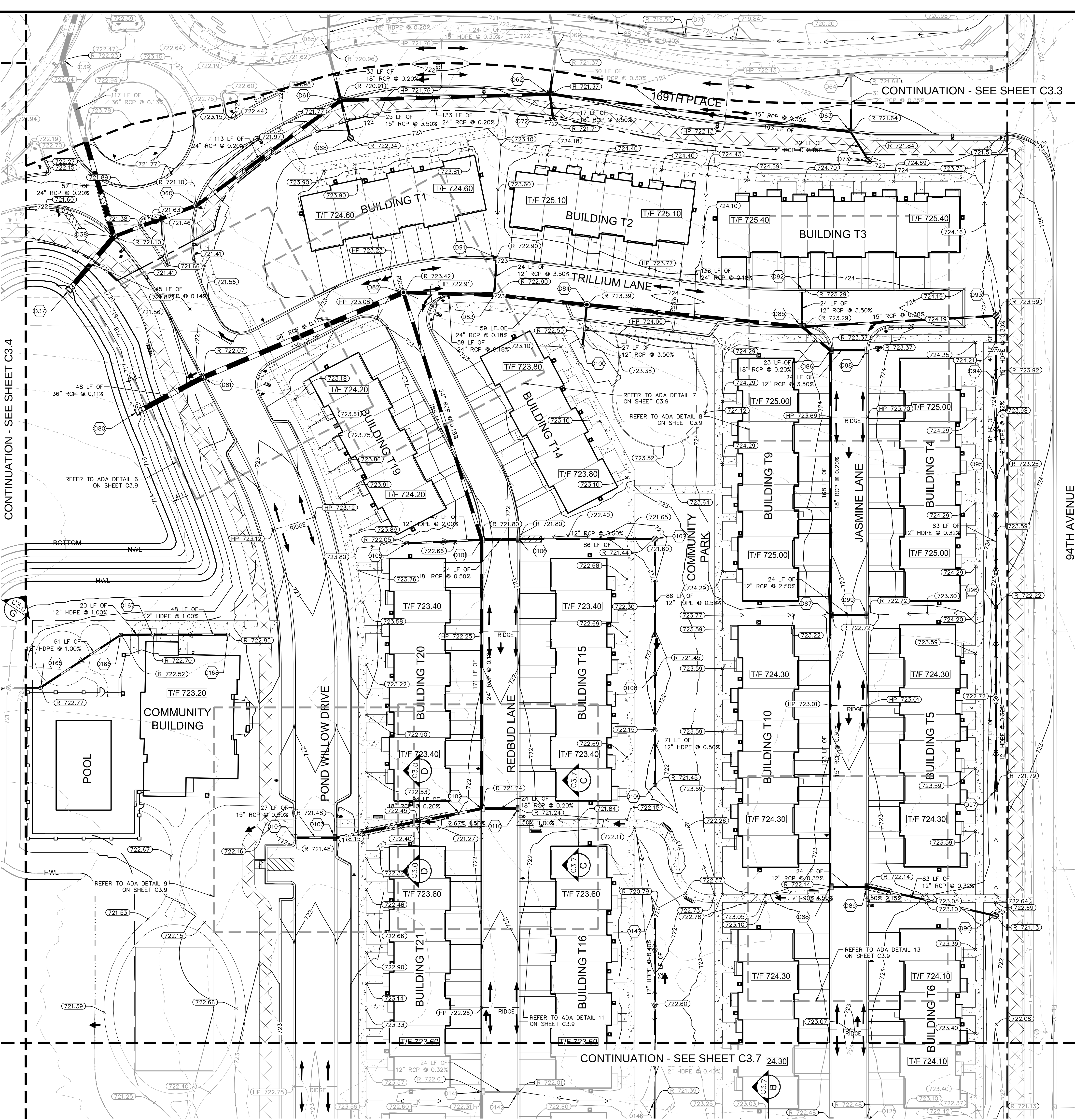
ORIGINAL ISSUE:
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HA PROJECT NO
168626000

SHEET NUMBER

C3.4

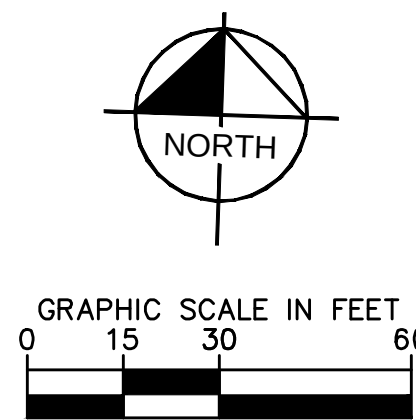
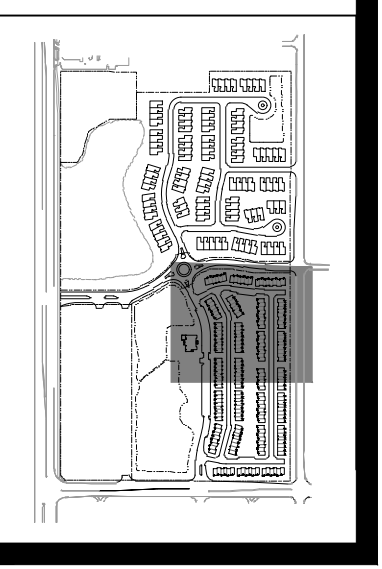
CONTINUATION - SEE SHEET C3.4



CONTINUATION - SEE SHEET C3.7

THE DETENTION POND VOLUMES PROVIDED WERE DETERMINED UPON THE USE OF THE VILLAGE OF ORLAND PARK LDC RELEASE RATES. POND RESTRICTORS HAVE BEEN OVERSIZED TO MAINTAIN HYDROLOGY OF DOWNSTREAM JURISDICTIONAL WETLAND. NO EXCESS VOLUME HAS BEEN PROVIDED WITHIN PONDS FOR USE BEYOND THE LIMITS OF THIS DEVELOPMENT. NO CHANGE TO OUTLET RESTRICTORS IS ALLOWED WITHOUT PRIOR APPROVAL OF THE VILLAGE.

KEY MAP



Call Before You Dig
1-800-892-0123

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STORM STRUCTURE TABLE

STRUCTURE NAME:	DETAILS:
D38	5' DIA. MH - OPEN LID RIM: 721.10 INV IN: 715.06 (NE) INV IN: 714.06 (N) INV OUT: 714.06 (SW)
D60	4' DIA. MH - OPEN LID RIM: 721.10 INV IN: 715.18 (NE) INV OUT: 715.18 (SW)
D61	4' DIA. MH - OPEN LID RIM: 720.91 INV IN: 715.40 (E) INV IN: 715.90 (N) INV IN: 716.15 (S) INV OUT: 715.40 (SW)
D62	4' DIA. MH - OPEN LID RIM: 721.37 INV IN: 716.42 (E) INV IN: 716.42 (N) INV IN: 716.42 (S) INV OUT: 715.67 (W)
D63	4' DIA. MH - OPEN LID RIM: 721.64 INV IN: 717.34 (N) INV IN: 717.34 (SE) INV OUT: 717.09 (W)
D68	2' INLET RIM: 722.34 INV IN: 717.02 (N)
D72	2' INLET RIM: 721.71 INV OUT: 717.01 (N)
D73	2' INLET RIM: 721.84 INV OUT: 717.81 (NW)
D81	4' DIA. MH - OPEN LID RIM: 722.07 INV IN: 718.35 (S) INV IN: 715.05 (NE) INV OUT: 715.05 (SW)
D82	4' DIA. MH - CLOSED LID RIM: 723.42 INV IN: 716.20 (E) INV IN: 716.20 (S) INV OUT: 715.20 (SW)
D83	4' DIA. MH - OPEN LID RIM: 722.90 INV IN: 716.30 (E) INV IN: 717.30 (N) INV OUT: 716.30 (W)
D84	4' DIA. MH - CLOSED LID RIM: 723.39 INV IN: 716.41 (E) INV IN: 717.41 (S) INV OUT: 716.41 (W)
D85	4' DIA. MH - OPEN LID RIM: 723.29 INV IN: 717.16 (SE) INV IN: 717.41 (E) INV IN: 717.66 (N) INV OUT: 716.66 (W)
D86	4' DIA. MH - OPEN LID RIM: 723.37 INV IN: 717.20 (S) INV IN: 717.70 (E) INV OUT: 717.20 (NW)
D87	4' DIA. MH - OPEN LID RIM: 722.72 INV IN: 717.79 (S) INV IN: 718.04 (E) INV OUT: 717.54 (N)

STORM STRUCTURE TABLE

STRUCTURE NAME:	DETAILS:
D88	4' DIA. MH - OPEN LID RIM: 722.14 INV IN: 718.56 (E) INV OUT: 718.31 (N)
D89	4' DIA. MH - OPEN LID RIM: 722.14 INV IN: 718.64 (E) INV OUT: 718.64 (W)
D90	2' INLET RIM: 721.13 INV OUT: 718.90 (W)
D91	2' INLET RIM: 722.90 INV OUT: 718.14 (S)
D92	2' INLET RIM: 723.29 INV OUT: 718.50 (S)
D93	4' DIA. MH - OPEN LID RIM: 721.45 INV IN: 717.78 (S) INV OUT: 717.78 (W)
D94	12" NYLOPLAST DRAIN RIM: 723.92 INV IN: 718.15 (S) INV OUT: 717.90 (N)
D95	12" NYLOPLAST DRAIN RIM: 723.25 INV IN: 718.35 (S) INV OUT: 718.35 (N)
D96	12" NYLOPLAST DRAIN RIM: 722.22 INV IN: 718.61 (S) INV OUT: 718.61 (N)
D97	12" NYLOPLAST DRAIN RIM: 721.79 INV OUT: 718.98 (N)
D98	2' INLET RIM: 723.37 INV OUT: 718.54 (W)
D99	2' INLET RIM: 722.72 INV OUT: 718.64 (W)
D100	12" NYLOPLAST DRAIN RIM: 722.50 INV OUT: 718.35 (N)
D101	4' DIA. MH - OPEN LID RIM: 721.80 INV IN: 716.49 (S) INV IN: 717.00 (E) INV IN: 717.50 (W) INV OUT: 716.49 (N)
D102	4' DIA. MH - OPEN LID RIM: 721.24 INV IN: 717.30 (E) INV IN: 717.30 (W) INV OUT: 716.80 (N)

STORM STRUCTURE TABLE

STRUCTURE NAME:	DETAILS:
D103	4' DIA. MH - OPEN LID RIM: 721.48 INV IN: 717.74 (W) INV OUT: 717.49 (E)
D104	2' INLET RIM: 721.48 INV OUT: 717.82 (E)
D105	12" NYLOPLAST DRAIN RIM: 722.05 INV OUT: 718.44 (E)
D106	4' DIA. MH - OPEN LID RIM: 721.80 INV IN: 717.62 (E) INV OUT: 717.12 (W)
D107	4' DIA. MH - OPEN LID RIM: 721.44 INV IN: 718.05 (S) INV OUT: 718.05 (W)
D108	12" NYLOPLAST DRAIN RIM: 721.45 INV IN: 718.47 (S) INV OUT: 718.47 (N)
D109	12" NYLOPLAST DRAIN RIM: 721.45 INV OUT: 718.83 (N)
D110	2' INLET RIM: 721.24 INV OUT: 717.35 (W)
D147	12" NYLOPLAST DRAIN RIM: 720.79 INV OUT: 718.87 (S)
D165	12" NYLOPLAST DRAIN RIM: 722.77 INV IN: 718.51 (NE) INV OUT: 718.50 (W)
D166	12" NYLOPLAST DRAIN RIM: 722.52 INV IN: 719.12 (E) INV OUT: 719.12 (SW)
D167	12" NYLOPLAST DRAIN RIM: 722.70 INV IN: 719.32 (E) INV OUT: 719.32 (W)
D168	12" NYLOPLAST DRAIN RIM: 722.85 INV OUT: 719.80 (W)

FES TABLE

STRUCTURE NAME:	DETAILS:
D37	36" FES INV IN: 714.00 (NE)
D80	36" FES INV IN: 715.00 (NE)

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PROPOSED STORM SEWER LINE

Kimley»Horn
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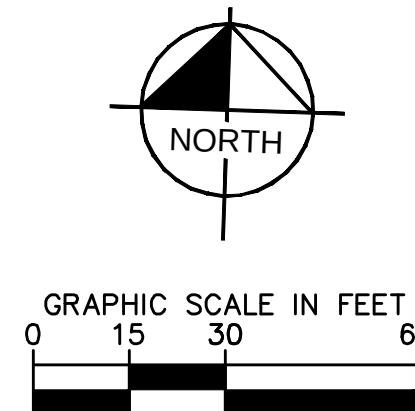
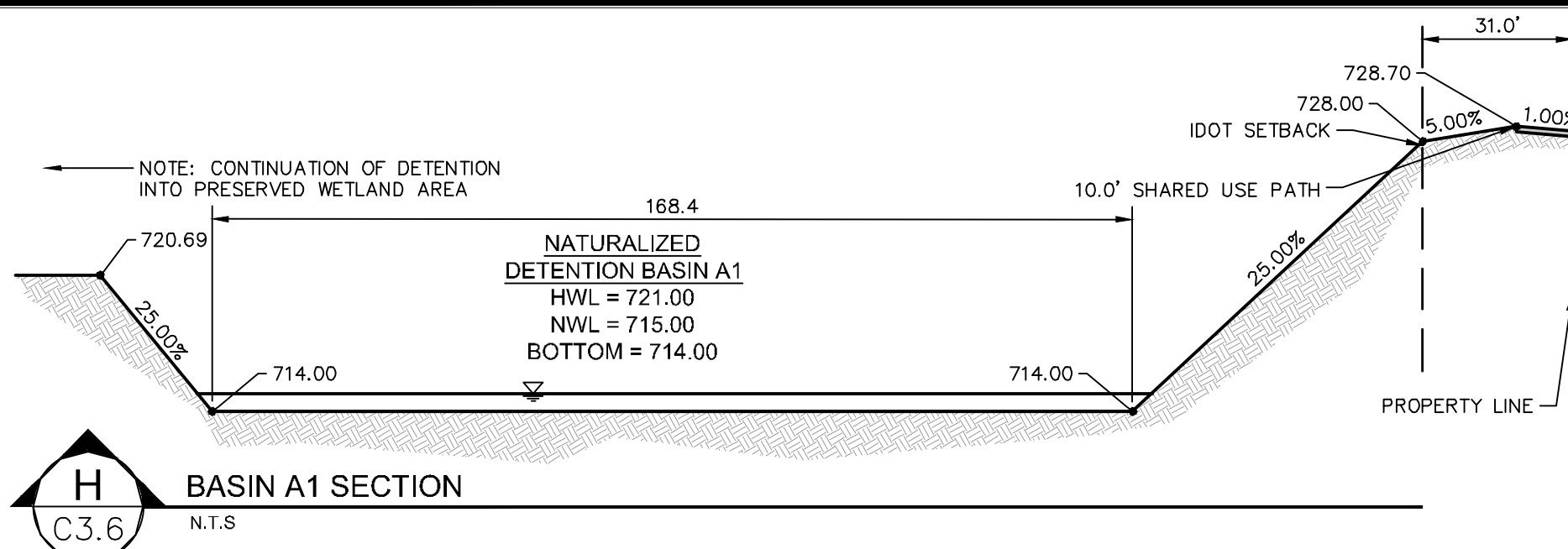
SR.JACOBSON
ARCHITECTS

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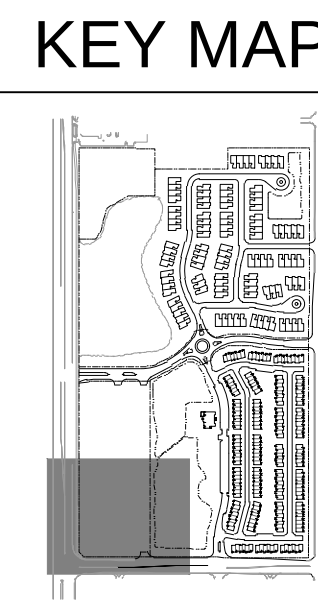
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(FOR MOUNTABLE CURB USE NEENAH R-2540 REFER TO DETAILS)
- PROPOSED STORM SEWER LINE

STORM STRUCTURE TABLE	
STRUCTURE NAME:	DETAILS:
D114	4' DIA. MH - CLOSED LID RIM: 723.57 INV IN: 715.00 (SE) INV OUT: 715.00 (N)

FES TABLE	
STRUCTURE NAME:	DETAILS:
D115	18" FES INV OUT: 715.00 (NW)

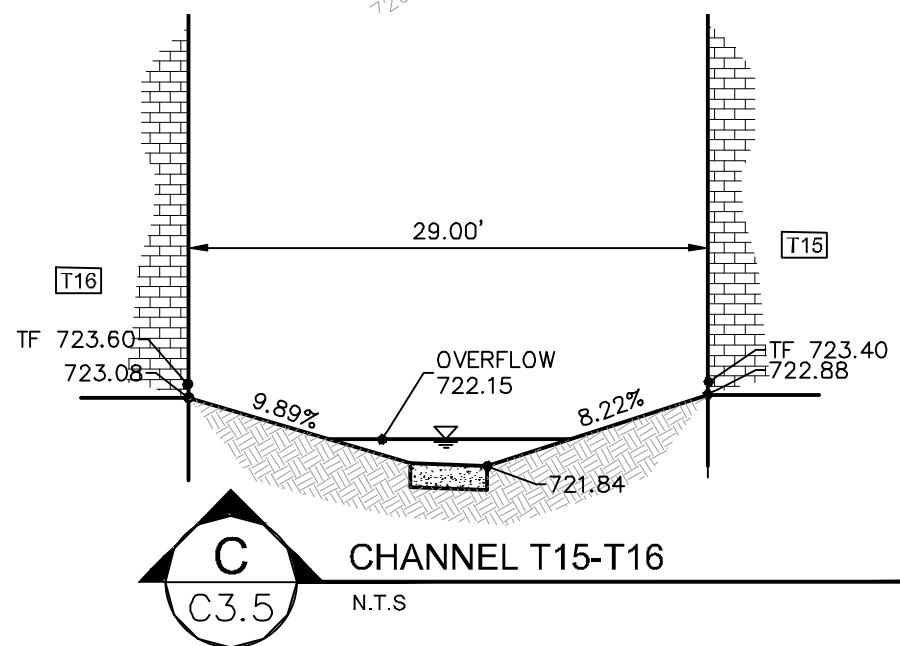
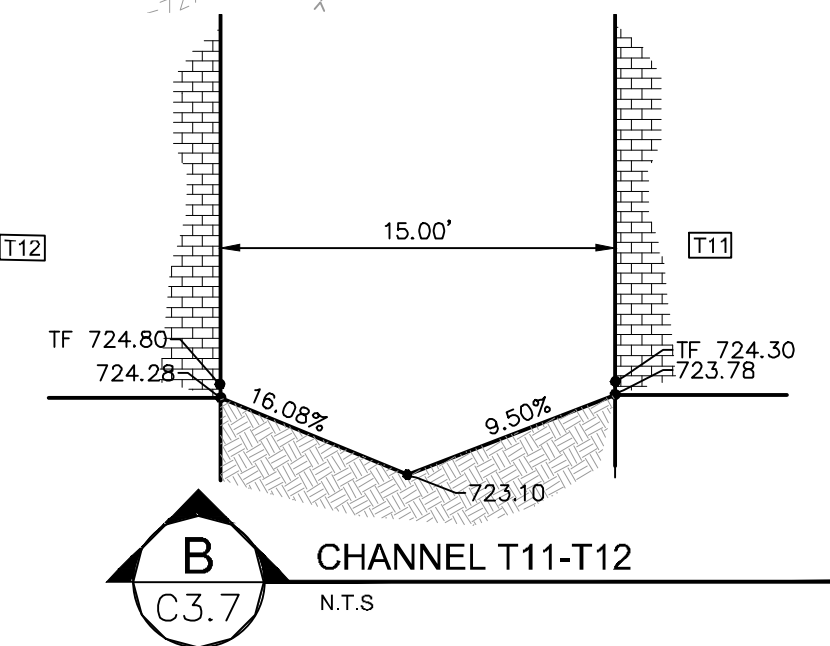
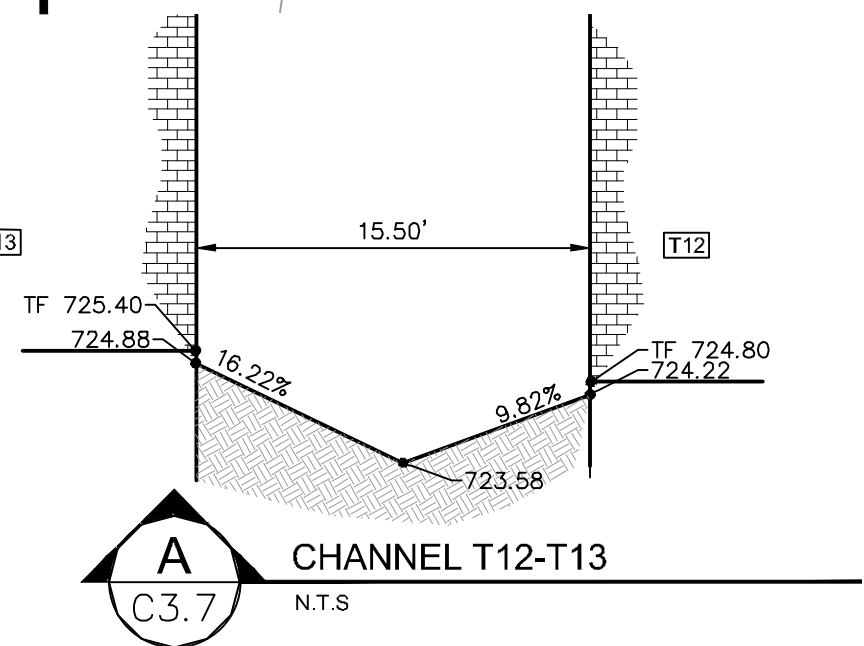
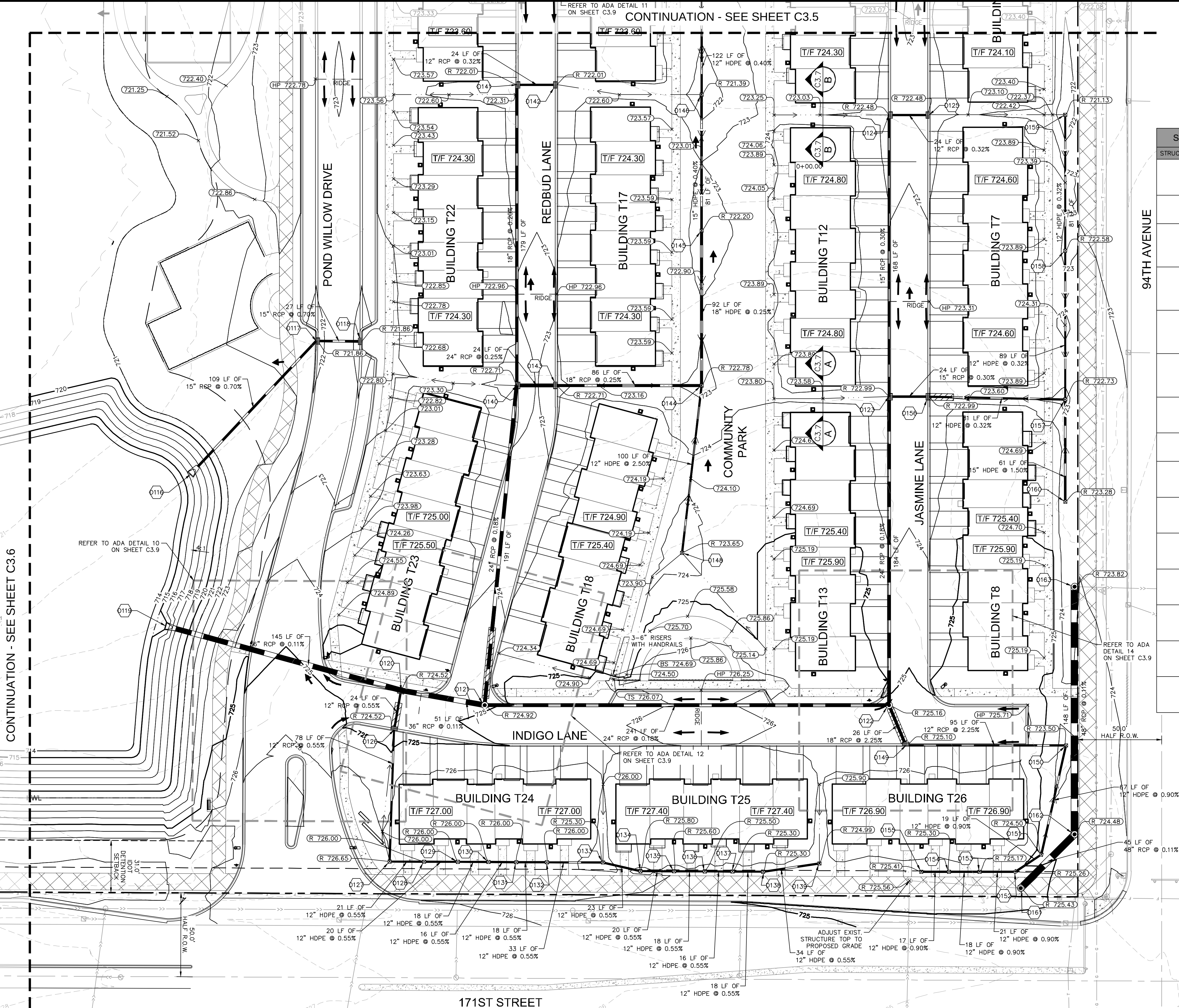
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ORLAND RIDGE LAGRANGE ROAD & 171ST STREET ORLAND PARK, IL 60487	GRADING AND DRAINAGE PLAN	S.R. JACOBSON ENGINEERS, CONSULTANTS & ARCHITECTS, INC.	SCALE: AS NOTED	Kimley»Horn © 2020 KIMLEY-HORN AND ASSOCIATES, INC. 1001 WARRENVILLE ROAD, SUITE 350, DUBLIN, OH 43017-5550 WWW.KIMLEY-HORN.COM	△ REVISED PER VILLAGE/CDOT COMMENTS	02/14/20	WAW
			DESIGNED BY: TRE		△ ADDENDUM 1 – LANDSCAPE	02/06/20	SKA
			DRAWN BY: JDC		△ REVISED PER IDOT COMMENTS	02/05/20	WAW
			CHECKED BY: WAW		△ LANDSCAPE REV PER VILLAGE COMMENTS	01/09/20	WAW
					△ REVISED PER VILLAGE/VWRD/CDOT COM.	12/20/19	WAW
					△ REVISED PER CDOT COMMENTS	11/21/19	WAW
					△ REVISED PER VILLAGE/AMWD COMMENTS	10/15/19	WAW
			NO		REVISIONS	DATE	RY

Drawing name: K:\GIS_DEVELOPMENT\168626000_SR_Jacobson_Grand Park_IL_V2 Design\CAD\PlanSheets\Final Engineering\C3.0 GRADING AND DRAINAGE PLAN.dwg C3.7 Feb 13, 2020 3:00pm by: TaylorSeaborn
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CONTINUATION - SEE SHEET C3.6



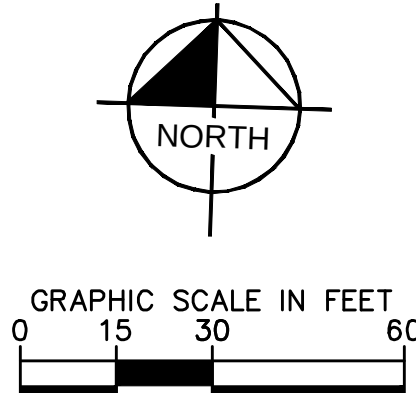
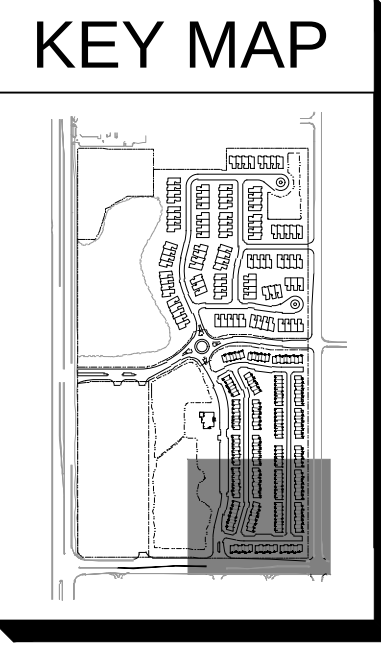
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STRUCTURE NAME:	DETAILS:	STRUCTURE NAME:	DETAILS:	STRUCTURE NAME:	DETAILS:
D117	4" DIA. MH - OPEN LID RIM: 721.86 INV IN: 717.02 (E) INV OUT: 717.02 (SW)	D133	6" NYLOPLAST DRAIN RIM: 725.30 INV IN: 721.28 (E) INV OUT: 721.28 (W)	D149	4" DIA. MH - OPEN LID RIM: 725.10 INV IN: 718.23 (E) INV OUT: 717.73 (NW)
D118	2" INLET RIM: 721.86 INV OUT: 717.21 (W)	D134	6" NYLOPLAST DRAIN RIM: 725.80 INV IN: 721.41 (E) INV OUT: 721.41 (W)	D150	12" NYLOPLAST DRAIN RIM: 723.50 INV IN: 720.38 (S) INV OUT: 720.38 (S)
D120	5" DIA. MH - OPEN LID RIM: 724.52 INV IN: 720.02 (S) INV IN: 715.15 (E) INV OUT: 715.15 (W)	D135	6" NYLOPLAST DRAIN RIM: 725.60 INV IN: 721.52 (E) INV OUT: 721.52 (W)	D151	6" NYLOPLAST DRAIN RIM: 724.50 INV IN: 720.98 (SW) INV OUT: 720.98 (N)
D121	5" DIA. MH - CLOSED LID RIM: 724.92 INV IN: 716.21 (N) INV IN: 716.21 (E) INV OUT: 715.21 (W)	D136	6" NYLOPLAST DRAIN RIM: 725.50 INV IN: 721.62 (E) INV OUT: 721.62 (W)	D152	6" NYLOPLAST DRAIN RIM: 725.28 INV IN: 721.14 (W) INV OUT: 721.14 (NE)
D122	4" DIA. MH - CLOSED LID RIM: 725.16 INV IN: 716.64 (N) INV IN: 717.14 (SE) INV OUT: 716.64 (W)	D137	6" NYLOPLAST DRAIN RIM: 725.30 INV IN: 721.71 (E) INV OUT: 721.71 (W)	D153	6" NYLOPLAST DRAIN RIM: 725.17 INV IN: 721.33 (W) INV OUT: 721.33 (E)
D123	4" DIA. MH - OPEN LID RIM: 722.99 INV IN: 717.72 (N) INV OUT: 716.97 (S)	D138	6" NYLOPLAST DRAIN RIM: 725.30 INV IN: 721.81 (E) INV OUT: 721.81 (W)	D154	6" NYLOPLAST DRAIN RIM: 725.30 INV IN: 721.50 (W) INV OUT: 721.50 (E)
D124	4" DIA. MH - OPEN LID RIM: 722.48 INV IN: 718.48 (E) INV OUT: 718.23 (S)	D139	6" NYLOPLAST DRAIN RIM: 724.99 INV OUT: 722.00 (W)	D155	6" NYLOPLAST DRAIN RIM: 725.41 INV OUT: 721.65 (E)
D125	2" INLET RIM: 722.48 INV OUT: 718.55 (W)	D140	4" DIA. MH - OPEN LID RIM: 722.71 INV IN: 717.05 (N) INV IN: 715.55 (E) INV OUT: 716.55 (S)	D156	4" DIA. MH - OPEN LID RIM: 722.99 INV IN: 718.05 (E) INV OUT: 717.80 (W)
D126	4" DIA. MH - OPEN LID RIM: 724.52 INV IN: 720.15 (S) INV OUT: 720.15 (N)	D141	4" DIA. MH - OPEN LID RIM: 721.31 INV IN: 717.91 (E) INV OUT: 717.41 (S)	D157	12" NYLOPLAST DRAIN RIM: 722.73 INV IN: 718.30 (N) INV IN: 718.05 (S) INV OUT: 718.30 (W)
D127	12" NYLOPLAST DRAIN RIM: 726.65 INV IN: 720.58 (E) INV OUT: 720.58 (N)	D142	2" INLET RIM: 722.01 INV OUT: 717.99 (W)	D158	12" NYLOPLAST DRAIN RIM: 722.58 INV IN: 718.59 (N) INV OUT: 718.59 (S)
D128	6" NYLOPLAST DRAIN RIM: 726.00 INV IN: 720.70 (E) INV OUT: 720.70 (W)	D143	4" DIA. MH - OPEN LID RIM: 722.71 INV IN: 717.11 (E) INV OUT: 716.61 (W)	D159	12" NYLOPLAST DRAIN RIM: 721.13 INV OUT: 718.85 (S)
D129	6" NYLOPLAST DRAIN RIM: 726.00 INV IN: 720.81 (E) INV OUT: 720.81 (W)	D144	12" NYLOPLAST DRAIN RIM: 722.78 INV IN: 717.33 (N) INV IN: 717.83 (S) INV OUT: 717.33 (W)	D160	12" NYLOPLAST DRAIN RIM: 723.28 INV OUT: 718.97 (N)
D130	6" NYLOPLAST DRAIN RIM: 726.00 INV IN: 720.91 (E) INV OUT: 720.91 (W)	D145	12" NYLOPLAST DRAIN RIM: 722.20 INV IN: 717.81 (N) INV OUT: 717.56 (S)	D161	6" DIA. MH - CLOSED LID GROUT IN EX. PIPE RIM: 725.43 INV OUT: 714.33 (NE)
D131	6" NYLOPLAST DRAIN RIM: 726.00 INV IN: 721.00 (E) INV OUT: 721.00 (W)	D146	12" NYLOPLAST DRAIN RIM: 721.39 INV IN: 717.81 (N) INV OUT: 718.13 (S)	D162	6" DIA. MH - CLOSED LID RIM: 724.48 INV IN: 714.28 (SW) INV OUT: 714.18 (N)
D132	6" NYLOPLAST DRAIN RIM: 726.00 INV IN: 721.10 (E) INV OUT: 721.10 (W)	D148	12" NYLOPLAST DRAIN RIM: 723.65 INV OUT: 720.34 (N)	D163	6" DIA. DOGHOUSE MH - CLOSED LID RIM: 723.82 INV IN: 714.01 (S)

- ### GRADING LEGEND
- FL = FLOW LINE
TC = TOP OF CURB
ME = MATCH ELEVATION
TF = TOP OF FOUNDATION
R = RIM ELEVATION
FG = FINISHED GRADE
TS = TOP OF STAIRS
BS = BOTTOM OF STAIRS
- PROPOSED CONTOUR
EXISTING CONTOUR
RIDGE LINE
SLOPE AND FLOW DIRECTION
100-YEAR OVERLAND OVERFLOW ROUTE
DETENTION BASIN 100-YEAR EMERGENCY OVERLAND OVERFLOW ROUTE
PROPOSED SWALE
PROPOSED RETAINING WALL
REVERSED PITCH CURB AND GUTTER
ACCESSIBLE ROUTE
RIP RAP (SEE DETAILS)
PROPOSED OPEN LID STORM STRUCTURE (PAVEMENT USE NEENAH R-2540) (GRASS USE NEENAH R-4340-B BEEHIVE)
PROPOSED CLOSED LID STORM STRUCTURE (PAVEMENT USE NEENAH R-1772) (GRASS USE NEENAH R-1786)
PROPOSED COMBINATION CURB INLET (B6.12 C&G USE NEENAH R-3281-A) (FOR MOUNTABLE CURB USE NEENAH R-2540 REFER TO DETAILS)
PROPOSED STORM SEWER LINE

FES TABLE	
STRUCTURE NAME:	DETAILS:
D116	15" FES INV IN: 716.25 (NE)
D119	36" FES INV IN: 715.00 (E)

THE DETENTION POND VOLUMES PROVIDED WERE DETERMINED UPON THE USE OF THE VILLAGE OF ORLAND PARK LDC RELEASE RATES. POND RESTRICTORS HAVE BEEN OVERSIZED TO MAINTAIN HYDROLOGY OF DOWNSTREAM JURISDICTIONAL WETLAND. NO EXCESS VOLUME HAS BEEN PROVIDED WITHIN POND FOR USE BEYOND THE LIMITS OF THIS DEVELOPMENT. NO CHANGE TO OUTLET RESTRICTORS IS ALLOWED WITHOUT PRIOR APPROVAL OF THE VILLAGE.



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C3.7		SHEET NUMBER	KHA PROJECT NO. 168626000	ORIGINAL ISSUE: 07/17/2019	ORLAND RIDGE LAGRANGE ROAD & 171ST STREET ORLAND PARK, IL 60487					© 2020 KIMLEY-HORN AND ASSOCIATES, INC. 1000 N. WILSON ROAD, SUITE 300, Lisle, IL 60532 PHONE: 630-487-5550 WWW.KIMLEY-HORN.COM	SCALE: AS NOTED DESIGNED BY: TRE DRAWN BY: JDC CHECKED BY: WAW	A REVISIONS		A REVISED PER VILLAGE/CCDOT COMMENTS		A REVISED PER VILLAGE/CCDOT COMMENTS		A ADDENDUM 1 – LANDSCAPE		A REVISED PER IDOT COMMENTS		A LANDSCAPE REV PER VILLAGE COMMENTS		A REVISED PER VILLAGE/MWRD/CCDOT COM.		A REVISED PER CCOT COMMENTS		A REVISED PER VILLAGE/MWRD COMMENTS		A REVISED PER VILLAGE/CCDOT COMMENTS		A ADDENDUM 1 – LANDSCAPE		A REVISED PER IDOT COMMENTS		A LANDSCAPE REV PER VILLAGE COMMENTS		A REVISED PER VILLAGE/MWRD/CCDOT COM.		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Drawing name: K:\CHS_LDEV\16862600_SR Jacobson_Grand Park_IL\2 Design\CAD\PlanSheets\Final Engineering\C3.8 ROUNDABOUT GRADING AND UTILITY PLAN.dwg C3.8 ROUNDABOUT GRADING AND UTILITY PLAN.dwg Feb 13, 2020 3:00pm by: Taylor-Eschbach
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UTILITY CROSSING LEGEND

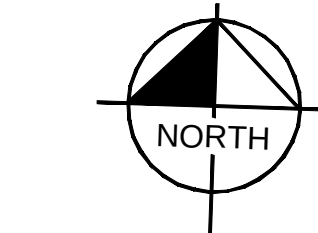
X1	12" STORM 8" WATER	B/P = 715.20 T/P = 713.70
X2	8" SANITARY 8" WATER	B/P = 711.78 T/P = 710.28
X3	36" STORM 8" WATER	B/P = 714.77 T/P = 713.27
X4	24" STORM 8" WATER	B/P = 715.02 T/P = 713.52

NOTE: WHERE THERE IS LESS THAN 10 FT HORIZONTAL OR 18-IN VERTICAL SEPARATION BETWEEN A SEWER AND WATER MAIN, OR IF WATER MAIN CROSSES UNDER A SEWER, WATER MAIN QUALITY PIPE IS TO BE USED TO CONSTRUCT THE SEWER OR EITHER PIPE IS TO BE ENCASED. THE PROTECTION MUST EXTEND ON EACH SIDE OF THE CROSSING UNTIL THE DISTANCE BETWEEN THE WATER MAIN AND SEWER IS AT LEAST 10 FT. ACCEPTABLE WATER MAIN QUALITY PIPE INCLUDES PVC SDR/WMQ MEETING ASTM D2241 WITH JOINTS MEETING ASTM D3139 OR DUCTILE IRON PIPE. RCP STORM SEWER WITH FLEXIBLE GASKET JOINTS MEETING ASTM C361 OR ASTM C443 IS ALSO ACCEPTABLE AT CROSSINGS.

SEE SHEET C4.2 FOR KELLER
LAKE DRIVE PLAN AND PROFILE

KEY NOTES

- 1 CURB TRANSITION (B6.12 CONCRETE CURB AND GUTTER TO BARRIER CURB (SEE DETAILS)
- 2 CURB TRANSITION (B6.12 CONCRETE CURB AND GUTTER TO B6.18 CONCRETE CURB AND GUTTER (SEE DETAILS)
- 3 BARRIER CURB AND GUTTER (RESIDENTIAL, PER VILLAGE DETAILS)
- 4 6" LANDSCAPE CURB



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Before
You Dig
708
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GRADING NOTES

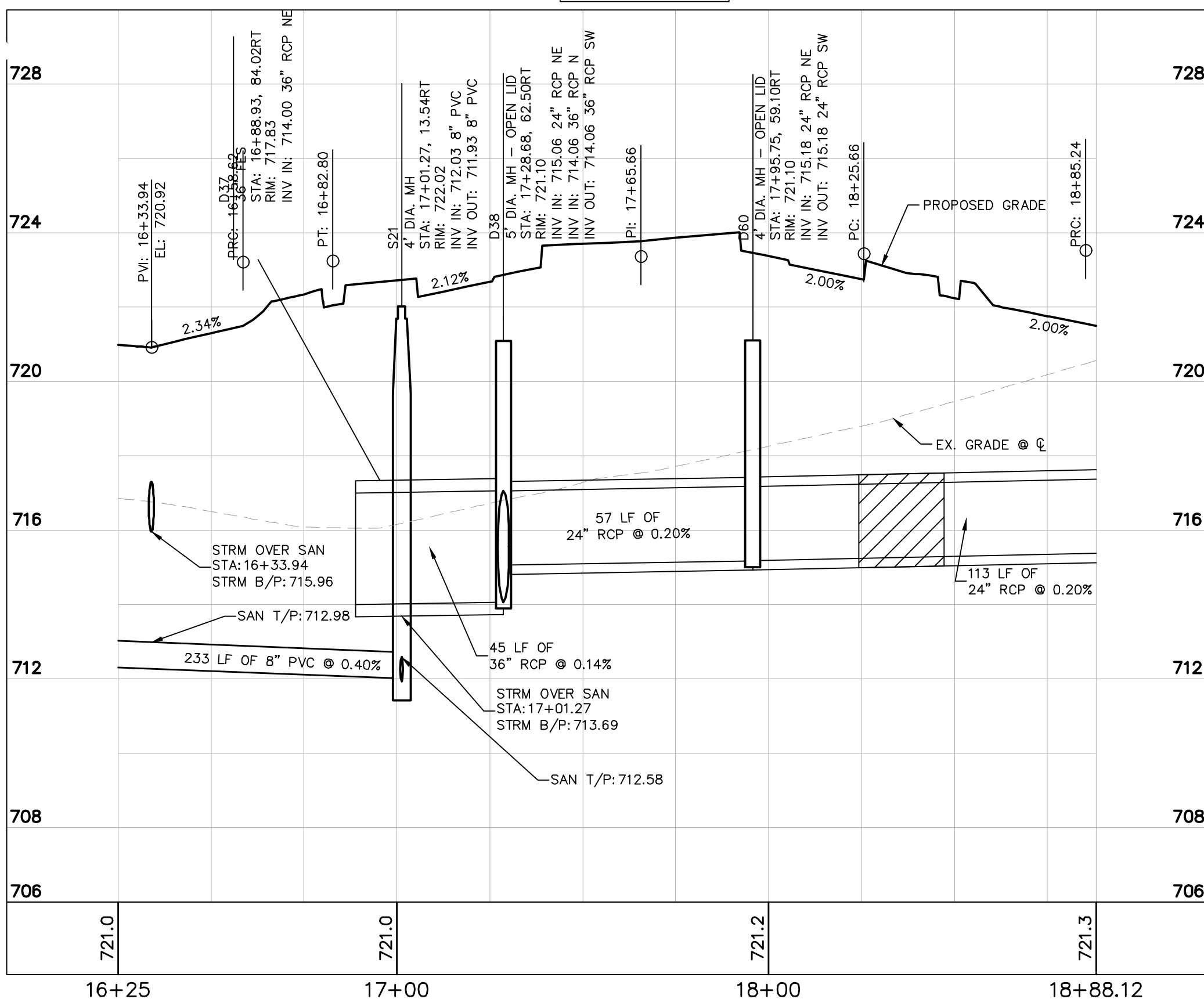
1. ALL PAVEMENT SPOT GRADE ELEVATIONS AND RIM ELEVATIONS WITHIN OR ALONG CURB AND GUTTER REFER TO FLOW LINE ELEVATIONS UNLESS OTHERWISE NOTED.
2. ALL ELEVATIONS SHOWN DEPICT FINISHED GRADE UNLESS OTHERWISE NOTED. GENERAL CONTRACTOR TO COORDINATE WITH EXCAVATION, LANDSCAPE AND PAVING SUBCONTRACTORS REGARDING TOPSOIL THICKNESS FOR LANDSCAPE AREAS AND PAVEMENT SECTION THICKNESS FOR PAVED AREAS TO PROPERLY ENSURE ADEQUATE CUT TO ESTABLISH SUBGRADE ELEVATIONS.
3. NO EARTHEN SLOPE SHALL BE GREATER THAN 4:1, UNLESS OTHERWISE NOTED.
4. MAXIMUM SLOPE IN ACCESSIBLE PARKING SPACES AND LOADING ZONES SHALL NOT EXCEED 2.0% IN ALL DIRECTIONS.
5. MAXIMUM RUNNING SLOPE SHALL NOT EXCEED 5% AND CROSS SLOPE SHALL NOT EXCEED 2% ON ALL SIDEWALKS AND ACCESSIBLE ROUTES.
6. MATCH EXISTING ELEVATIONS AT THE PROPERTY LIMITS.
7. ALL ONSITE CONCRETE SIDEWALK IS DESIGNED AT 1% CROSS SLOPE UNLESS OTHERWISE NOTED.

GRADING LEGEND

- FL = FLOW LINE
TC = TOP OF CURB
ME = MATCH ELEVATION
TF = TOP OF FOUNDATION
R = RIM ELEVATION
FG = FINISHED GRADE
TS = TOP OF STAIRS
BS = BOTTOM OF STAIRS
- PROPOSED CONTOUR
EXISTING CONTOUR
RIDGE LINE
SLOPE AND FLOW DIRECTION
100-YEAR OVERLAND OVERFLOW ROUTE
DETENTION BASIN 100-YEAR EMERGENCY OVERLAND OVERFLOW ROUTE
PROPOSED SWALE
PROPOSED RETAINING WALL
REVERSED PITCH CURB AND GUTTER
ACCESSIBLE ROUTE
RIP RAP (SEE DETAILS)
PROPOSED OPEN LID STORM STRUCTURE (PAVEMENT USE NEENAH R-2540) (GRASS USE NEENAH R-4340-B BEEHIVE)
PROPOSED CLOSED LID STORM STRUCTURE (PAVEMENT USE NEENAH R-1772) (GRASS USE NEENAH R-1786)
PROPOSED COMBINATION CURB INLET (B6.12 C&G USE NEENAH R-3281-A) (FOR MOUNTABLE CURB USE NEENAH R-2540 REFER TO DETAILS)
PROPOSED STORM SEWER LINE

ROUNDABOUT PROFILE

1"=30' HORIZONTAL
1"=3' VERTICAL



LEGEND

- STANDARD PITCH CONCRETE CURB AND GUTTER
REVERSE PITCH CONCRETE CURB AND GUTTER
DENOTES ADA RAMP. CONTRACTOR TO INSTALL SPECIAL DEPRESSED CURB FOR RAMP CONSTRUCTION
CONCRETE SIDEWALK (SEE GRADING PLANS FOR DETAILED ELEVATIONS)
ASPHALT TRAIL (SEE GRADING PLANS FOR DETAILED ELEVATIONS)
GRANULAR TRENCH BACKFILL (SEE DETAILS)
SEWER PIPE WITHIN 10' OF WATERMAIN HORIZONTAL OR 18" VERTICAL DISTANCE TO BE PROTECTED PER UTILITY CROSSING LEGEND NOTE

WATER STRUCTURE TABLE

STRUCTURE NAME:	DETAILS:
W17	8" VALVE IN VAULT FG ELEV: 723.03
W40	8" VALVE IN VAULT FG ELEV: 703.55

FES TABLE

STRUCTURE NAME:	DETAILS:
D37	36" FES INV IN: 714.00 (NE)
D74	12" FES INV IN: 715.00 (NW)

STORM STRUCTURE TABLE

STRUCTURE NAME:	DETAILS:
D38	5' DIA. MH - OPEN LID RIM: 721.10 INV IN: 715.06 (NE) INV IN: 714.06 (N) INV OUT: 714.06 (SW)
D39	4' DIA. MH - OPEN LID RIM: 722.23 INV IN: 714.21 (N) INV OUT: 714.21 (S)
D40	4' DIA. MH - OPEN LID RIM: 721.45 INV IN: 714.30 (N) INV OUT: 714.30 (S)
D60	4' DIA. MH - OPEN LID RIM: 721.10 INV IN: 715.18 (NE) INV OUT: 715.18 (SW)
D75	4' DIA. MH - OPEN LID RIM: 720.58 INV IN: 715.83 (NW) INV OUT: 715.83 (SE)
D76	2' INLET RIM: 720.55 INV OUT: 716.46 (SE)

SANITARY STRUCTURE TABLE

STRUCTURE NAME:	DETAILS:
S8A	4' DIA. MH RIM: 721.42 INV OUT: 712.75 (NW)
S21	4' DIA. MH RIM: 722.02 INV IN: 712.03 (SW) INV OUT: 711.93 (SE)

ROUNDABOUT
GRADING AND
UTILITY PLAN

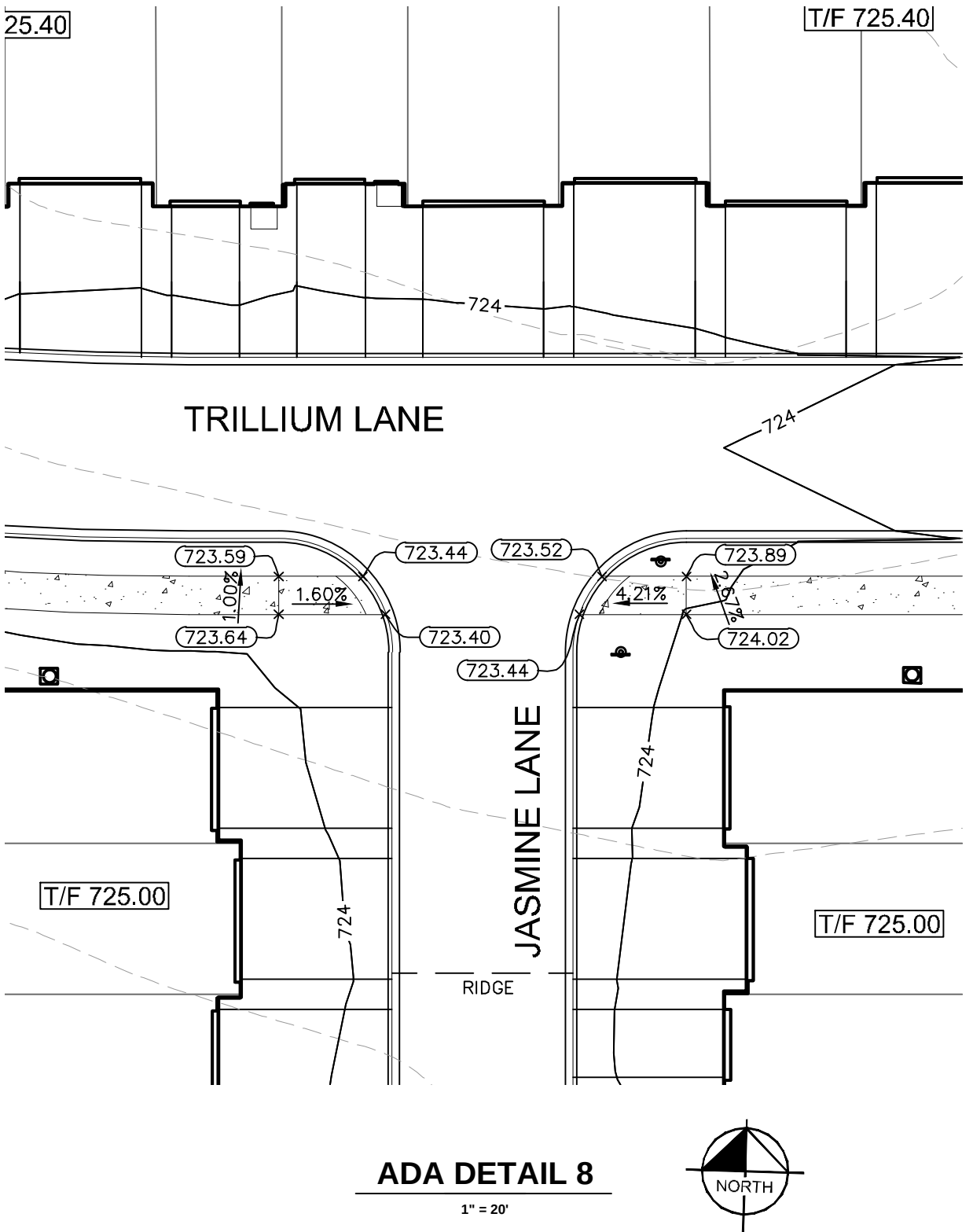
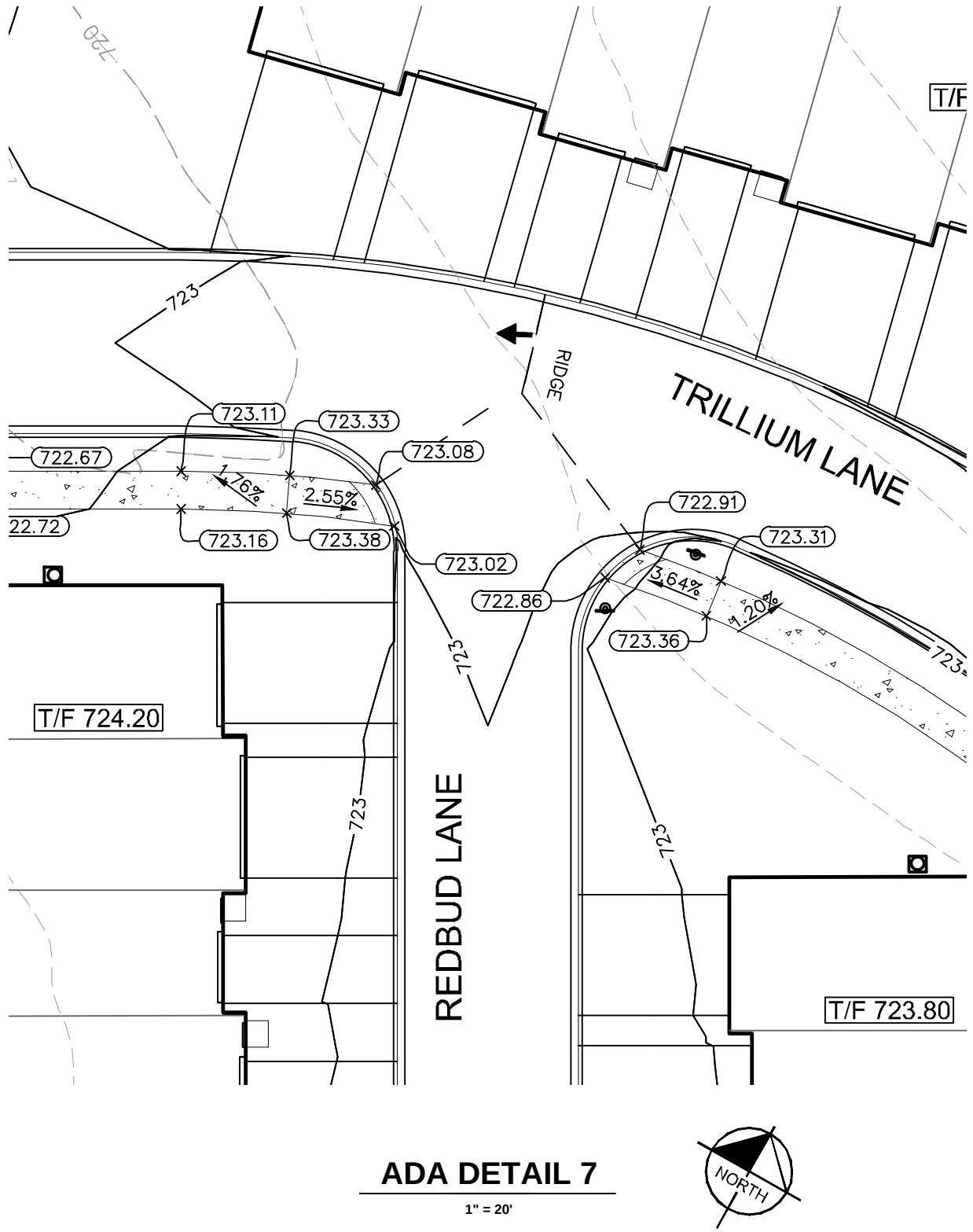
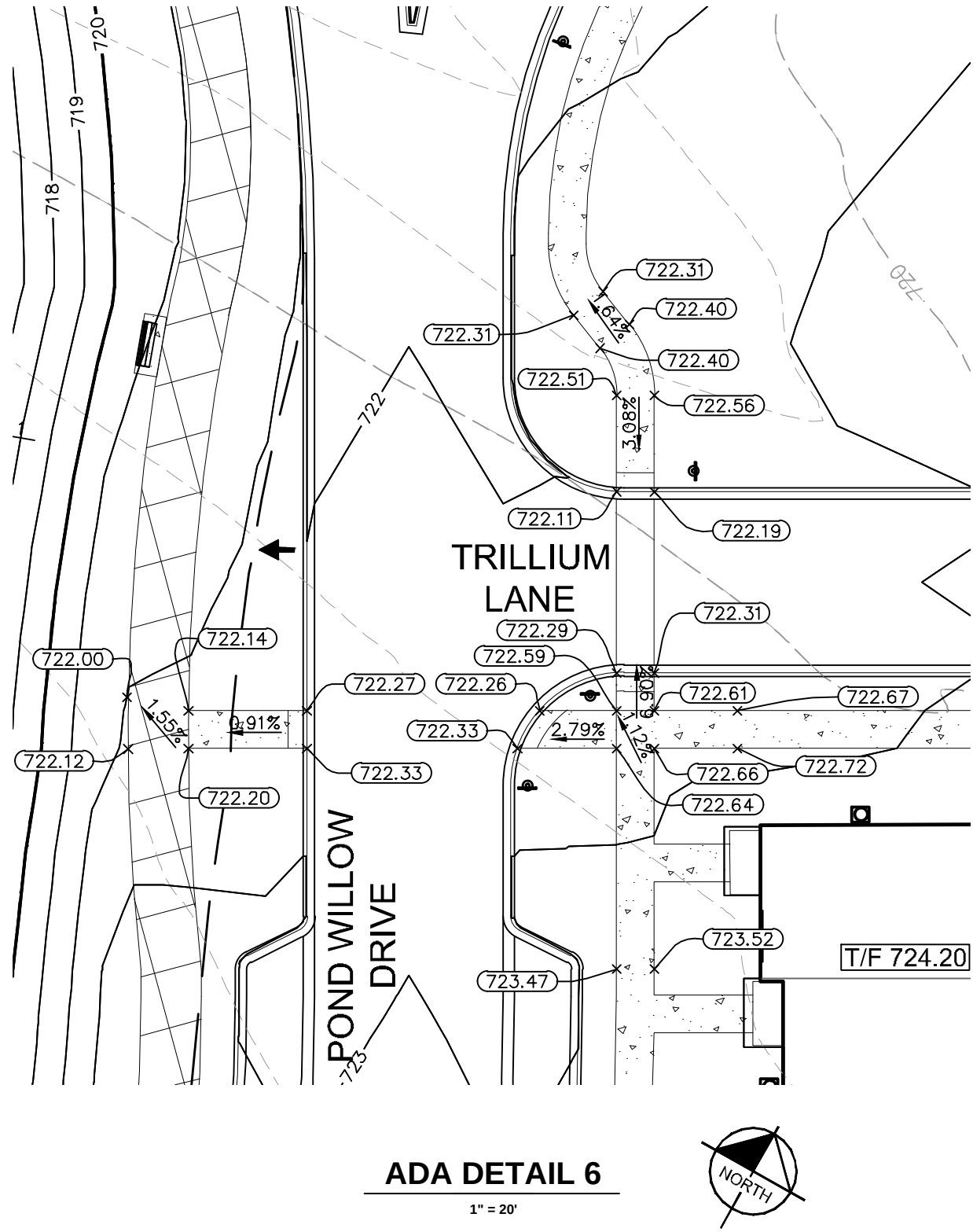
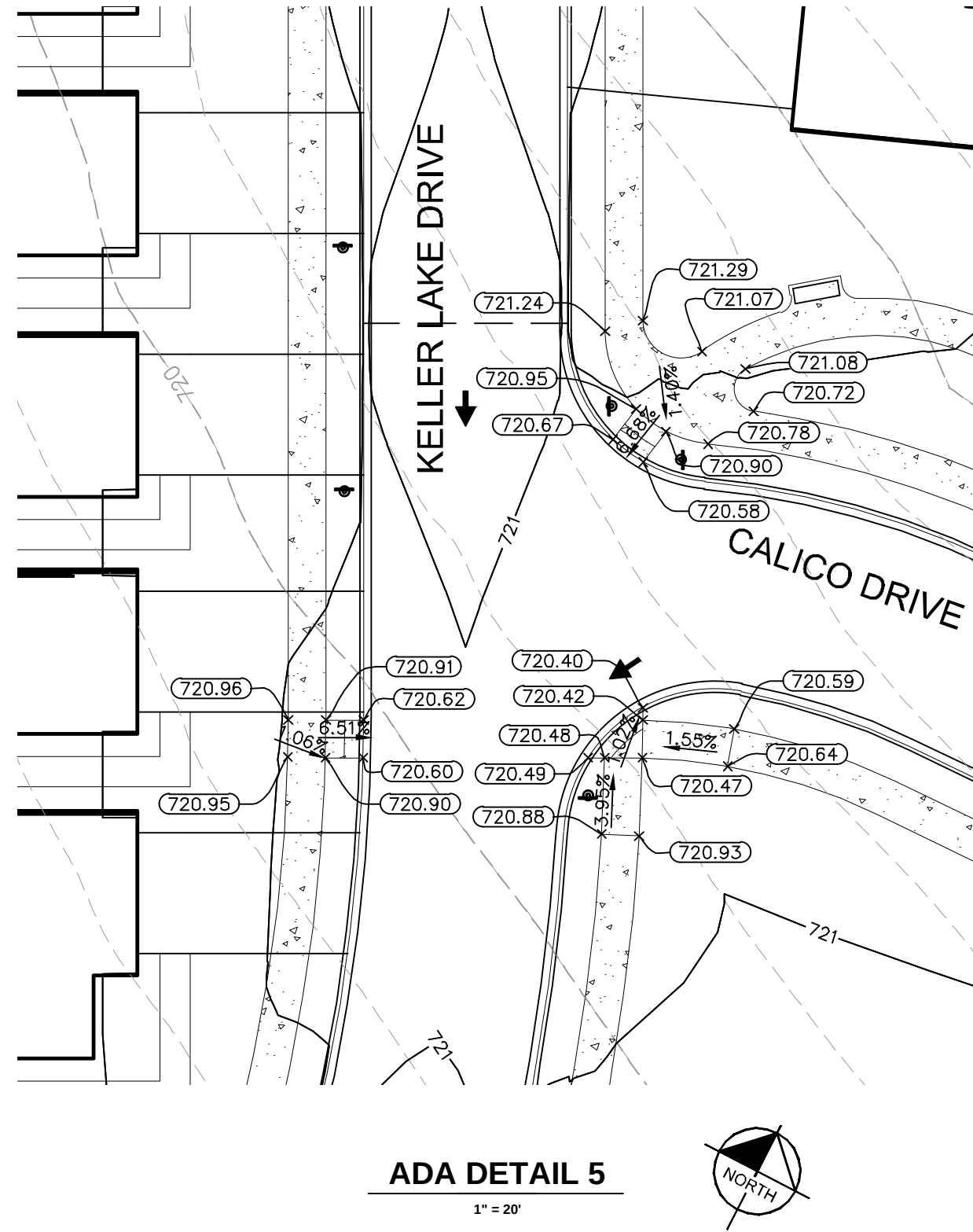
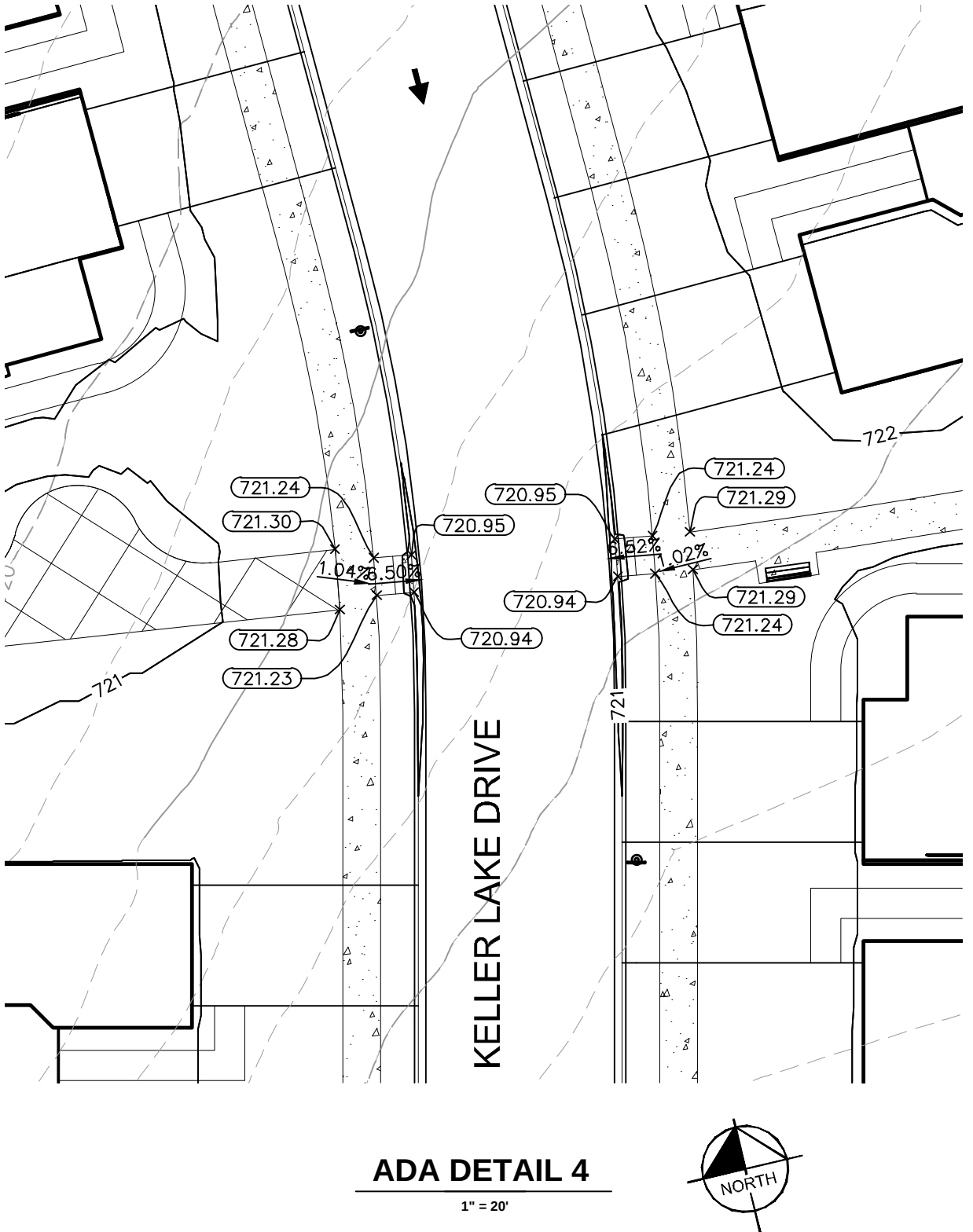
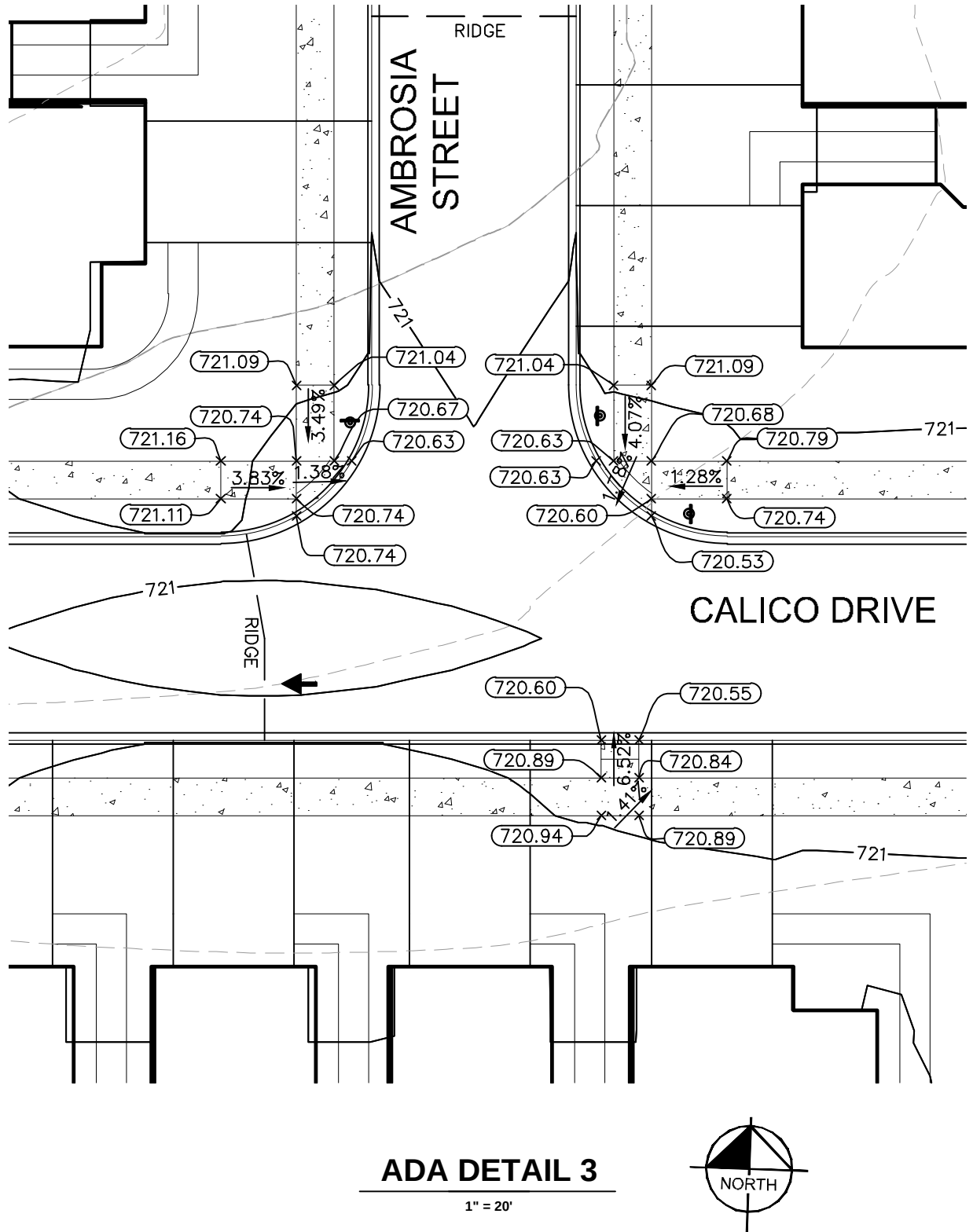
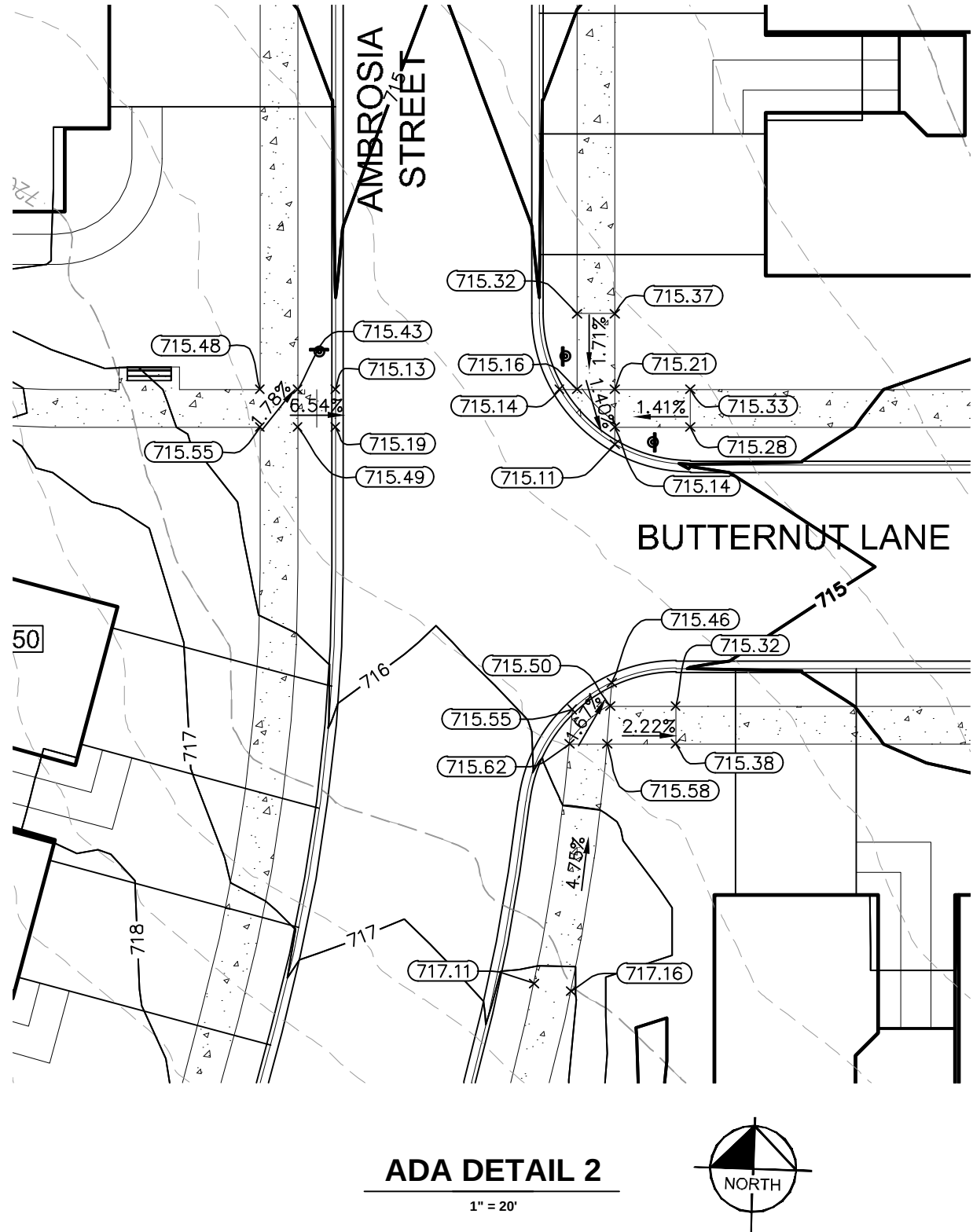
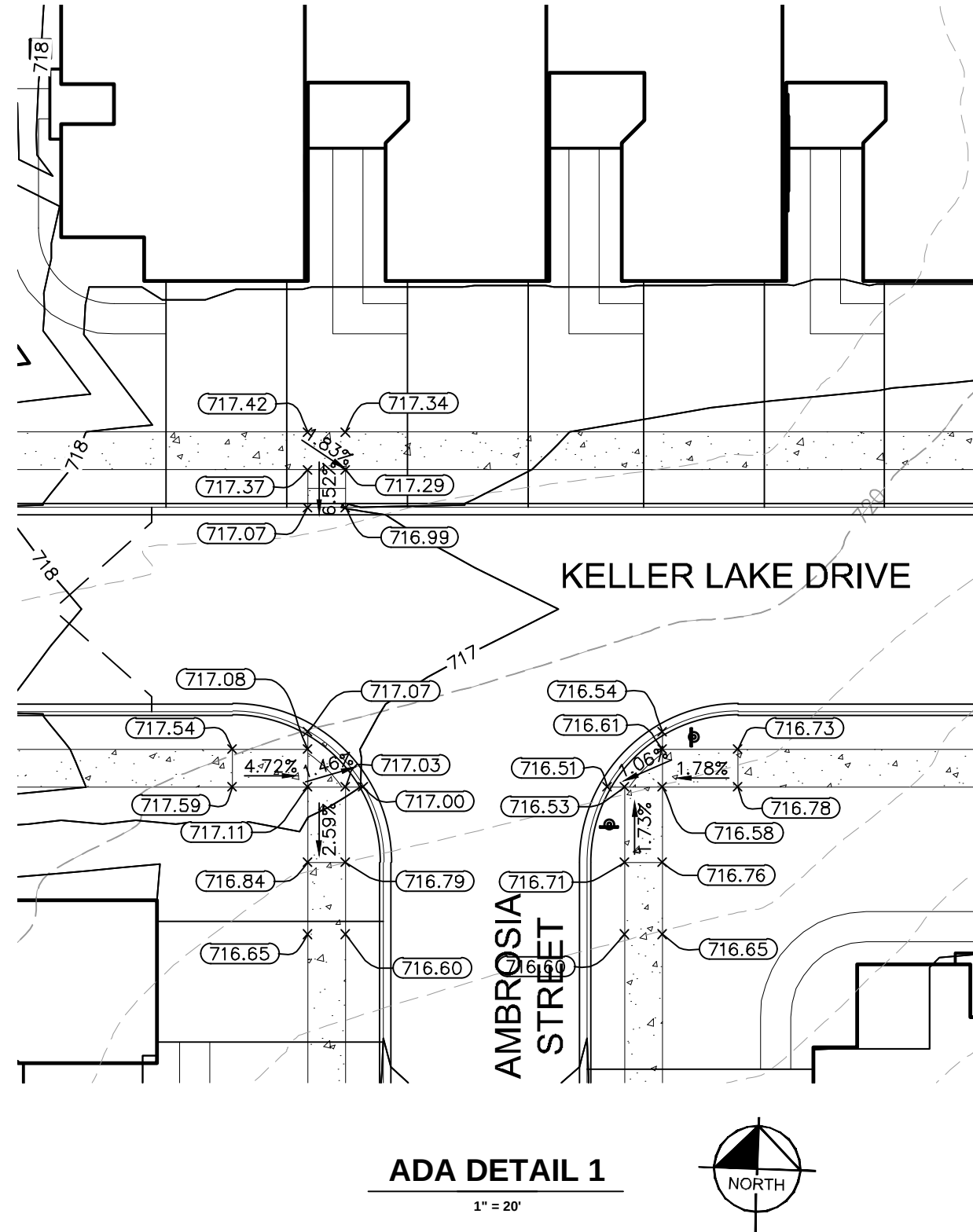
ORLAND RIDGE
LAGRANGE ROAD & 171ST STREET
ORLAND PARK, IL 60487

ORIGINAL ISSUE:
07/17/2019
KHA PROJECT NO.
168626000

SHEET NUMBER

C3.8

Drawing name: K:\GIS_LDEV\16862600_SR Jacobson_Grand Park_IL\2 Design\CAD\PlanSheets\Final Engineering\C3.9 ADA GRADING DETAILS.dwg C3.9 Feb 13, 2020 3:00pm by: Taylor-Eschbach
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				NO.		
				REVISD PER VILLAGE/MWRD COMMENTS	10/15/19	WAW
				REVISD PER CCOT COMMENTS	11/21/19	WAW
				LANDSCAPE REV PER VILLAGE/MWRD/CCDOT COM.	12/20/19	WAW
ORIGINAL ISSUE: 07/17/2019 KHA PROJECT NO. 168626000 SHEET NUMBER C3.9				LANDSCAPE REV PER VILLAGE COMMENTS	01/09/20	WAW
				REVISD PER IDOT COMMENTS	02/05/20	WAW
				ADDENDUM 1 – LANDSCAPE	02/06/20	SKA
				REVISD PER VILLAGE/CCDOT COMMENTS	02/14/20	WAW
				REVISD PER VILLAGE/CCDOT COMMENTS	02/14/20	WAW

