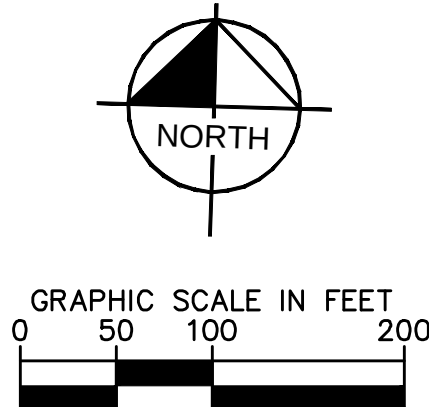
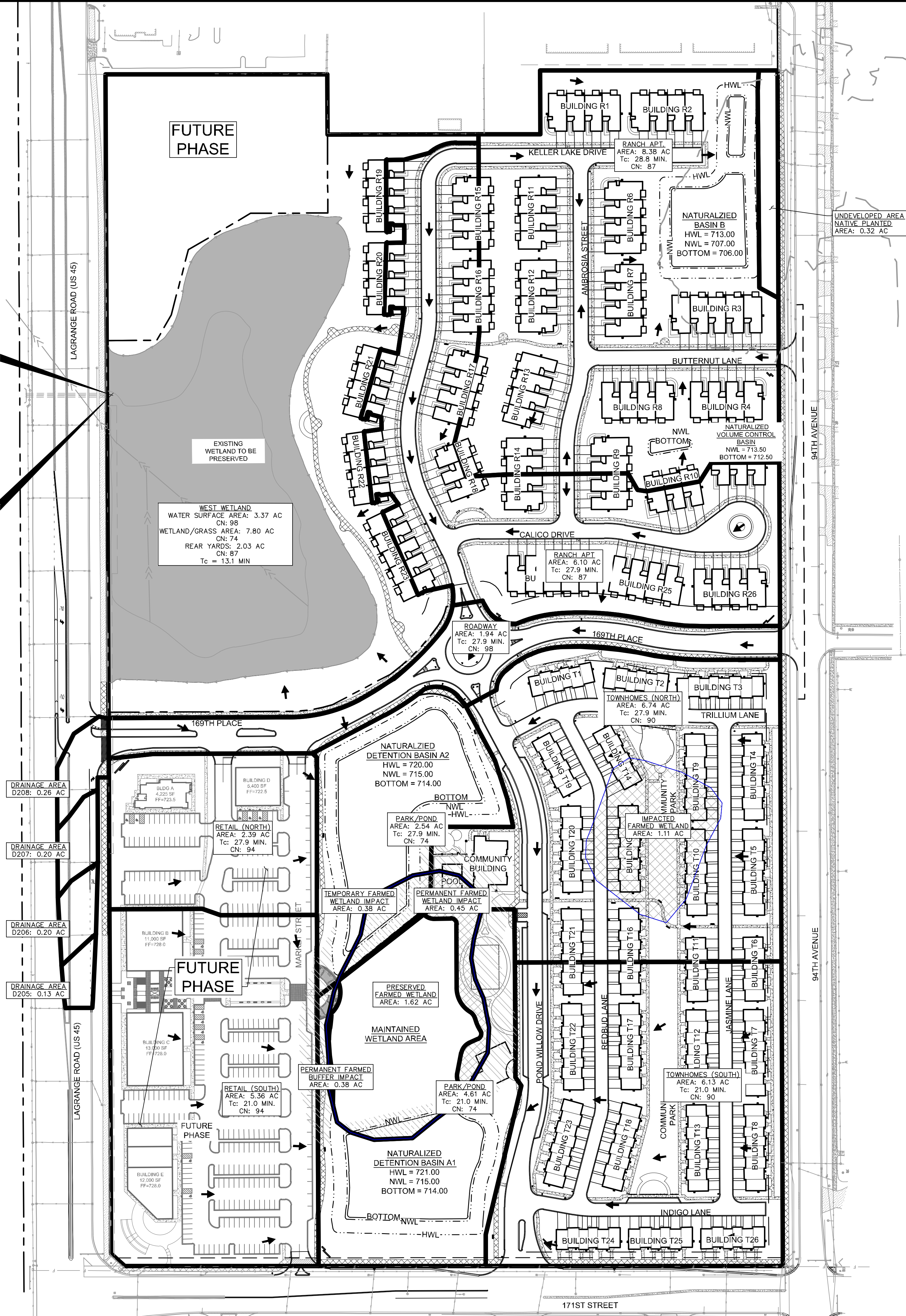


\*PROPOSED OUTFLOW (CRITICAL DURATION)  
2-YR = 9.28 CFS (12-HR)  
10-YR = 14.99 CFS (12-HR)  
50-YR = 23.24 CFS (12-HR)  
100-YR = 27.45 CFS (12-HR)  
  
\*NOTE: OUTFLOW BASED ON MODIFIED  
ON-SITE DETENTION CONDITION IN ORDER  
TO PRESERVE WETLAND HYDROLOGY.

LAGRANGE ROAD OVERTOPPING  
ELEVATION: 718.36

DRAINAGE AREA  
D208: 0.26 AC  
  
DRAINAGE AREA  
D207: 0.20 AC  
  
DRAINAGE AREA  
D206: 0.20 AC  
  
DRAINAGE AREA  
D205: 0.13 AC



Call  
Before  
You Dig  
**JOUE**  
1-800-892-0123

### LEGEND

- XXX--- EXISTING CONTOUR
- XXX— PROPOSED CONTOUR
- FLOW DIRECTION
- PRESERVED WETLAND FOOTPRINT
- ▨ IMPACTED WETLAND LIMITS

| Proposed Tributary        | Area  |
|---------------------------|-------|
| Townhomes (South)         | 6.13  |
| Retail (South)            | 5.36  |
| Park/Pond                 | 4.61  |
| Park/Pond                 | 2.54  |
| Townhomes (North)         | 6.74  |
| Retail (North)            | 2.39  |
| Roadway                   | 1.94  |
| Ranch Apt                 | 6.10  |
| Ranch Apt                 | 8.38  |
| Undeveloped Area          | 0.32  |
| West Wetland Water        | 3.37  |
| West Wetland Grassed Area | 7.80  |
| Rear Yards                | 2.03  |
| Total                     | 57.71 |

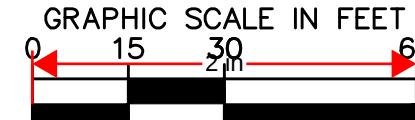
| REVISIONS                              | DATE     | BY  |
|----------------------------------------|----------|-----|
| 1. REVISED PER VILLAGE/CCDOT COMMENTS  | 02/14/20 | WAW |
| 2. ADDENDUM 1 - LANDSCAPE              | 02/06/20 | SKA |
| 3. REVISED PER DOT COMMENTS            | 02/05/20 | WAW |
| 4. LANDSCAPE REV PER VILLAGE COMMENTS  | 01/09/20 | WAW |
| 5. REVISED PER VILLAGE/MWRD/CCDOT COM. | 12/20/19 | WAW |
| 6. REVISED PER CCOT COMMENTS           | 11/21/19 | WAW |
| 7. REVISED PER VILLAGE/MWRD COMMENTS   | 10/15/19 | WAW |
| 8. REVISED PER VILLAGE/CCDOT COMMENTS  | 02/14/20 | WAW |

|                  |                                                                                                                                                                   |
|------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| SCALE: AS NOTED  | <b>Kimley»Horn</b><br>© 2020 KIMLEY-HORN AND ASSOCIATES, INC.<br>1001 WARRENVILLE ROAD, SUITE 350,<br>Lisle, IL 60532<br>TEL: 630.332.4550<br>WWW.KIMLEY-HORN.COM |
| DESIGNED BY: TRE |                                                                                                                                                                   |
| DRAWN BY: JDC    |                                                                                                                                                                   |
| CHECKED BY: WAW  |                                                                                                                                                                   |

|                                                      |                               |                                                                              |                                                                                               |
|------------------------------------------------------|-------------------------------|------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|
| <b>SR JACOBSON</b><br>SPECIALIZED RESIDENTIAL DESIGN | <b>PROPOSED DRAINAGE PLAN</b> | <b>ORLAND RIDGE</b><br>LAGRANGE ROAD & 171ST STREET<br>ORLAND PARK, IL 60487 | ORIGINAL ISSUE:<br>07/17/2019<br>KHA PROJECT NO.<br>168626000<br>SHEET NUMBER<br><b>C10.1</b> |
|------------------------------------------------------|-------------------------------|------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|

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.
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.

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.



Call  
Before  
You Dig  
**JULIE**  
1-800-892-0123

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  
(GRASS USE NEENAH R-3281-A)  
(FOR MOUNTAINABLE CURB USE NEENAH  
R-2540 REFER TO DETAILS)

PROPOSED STORM SEWER LINE

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

The site plan shows a rectangular development area. On the left side, there is a large rectangular area labeled 'LANDSCAPING'. To its right is a parking area with several spaces. The main part of the site contains several building footprints, some of which are labeled with numbers like '100', '101', '102', '103', '104', '105', '106', '107', '108', '109', '110', '111', '112', '113', '114', '115', '116', '117', '118', '119', '120', '121', '122', '123', '124', '125', '126', '127', '128', '129', '130', '131', '132', '133', '134', '135', '136', '137', '138', '139', '140', '141', '142', '143', '144', '145', '146', '147', '148', '149', '150', '151', '152', '153', '154', '155', '156', '157', '158', '159', '160', '161', '162', '163', '164', '165', '166', '167', '168', '169', '170', '171', '172', '173', '174', '175', '176', '177', '178', '179', '180', '181', '182', '183', '184', '185', '186', '187', '188', '189', '190', '191', '192', '193', '194', '195', '196', '197', '198', '199', '200'. There are also some smaller buildings and structures scattered throughout the site.

**S.R. JACOBSON**  
DEVELOPMENT CORPORATION

# GRADING AND DRAINAGE PLAN

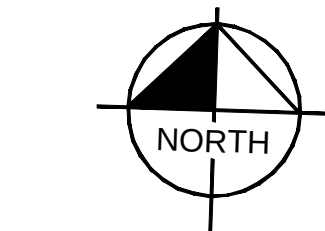
**ORLAND RIDGE**  
\_AGRANGE ROAD & 171ST STREET  
ORLAND PARK, IL 60487

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

### C3.1

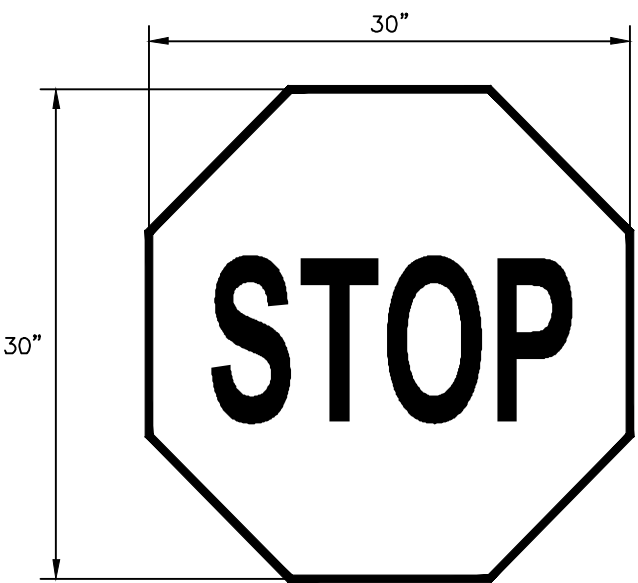
## GENERAL NOTES

1. TYPE ZZ SIGN SHEETING AND TELESCOPING STEEL SIGN SUPPORTS SHALL BE USED FOR ALL COOK COUNTY SIGN ASSEMBLIES
2. ALL PAVEMENT MARKINGS ON COOK COUNTY ROADWAYS SHALL BE MODIFIED URETHANE



GRAPHIC SCALE IN FEET  
0 30 60 120

Call Before You Dig  
**1-800-892-0123**



30" X 30" R1-1

**STOP SIGN**  
N.T.S.



W11-2

36" X 36"

Keller Lake Dr

C

STREET SIGN  
48" X 9"  
WHITE/GREEN

Butternut Lane

D

STREET SIGN  
48" X 9"  
WHITE/GREEN

Ambrosia St

E

STREET SIGN  
48" X 9"  
WHITE/GREEN

Calico Drive

F

STREET SIGN  
48" X 9"  
WHITE/GREEN

## LEGEND

- ① 4" DOUBLE YELLOW LINE
- ② 24" SOLID WHITE LINE
- ③ SCHOOL CROSSWALK (12" WHITE STRIPE - 2.0' O.C.)

**Kimley»Horn**  
© 2020 KIMLEY-HORN AND ASSOCIATES, INC.  
1001 WARREN ROAD, SUITE 350,  
Lisle, IL 60532  
TEL: 630.582.4550  
WWW.KIMLEY-HORN.COM

**SR.JACOBSON**  
SPECIALISTS IN TRANSPORTATION

**OVERALL  
SIGNAGE &  
MARKING**

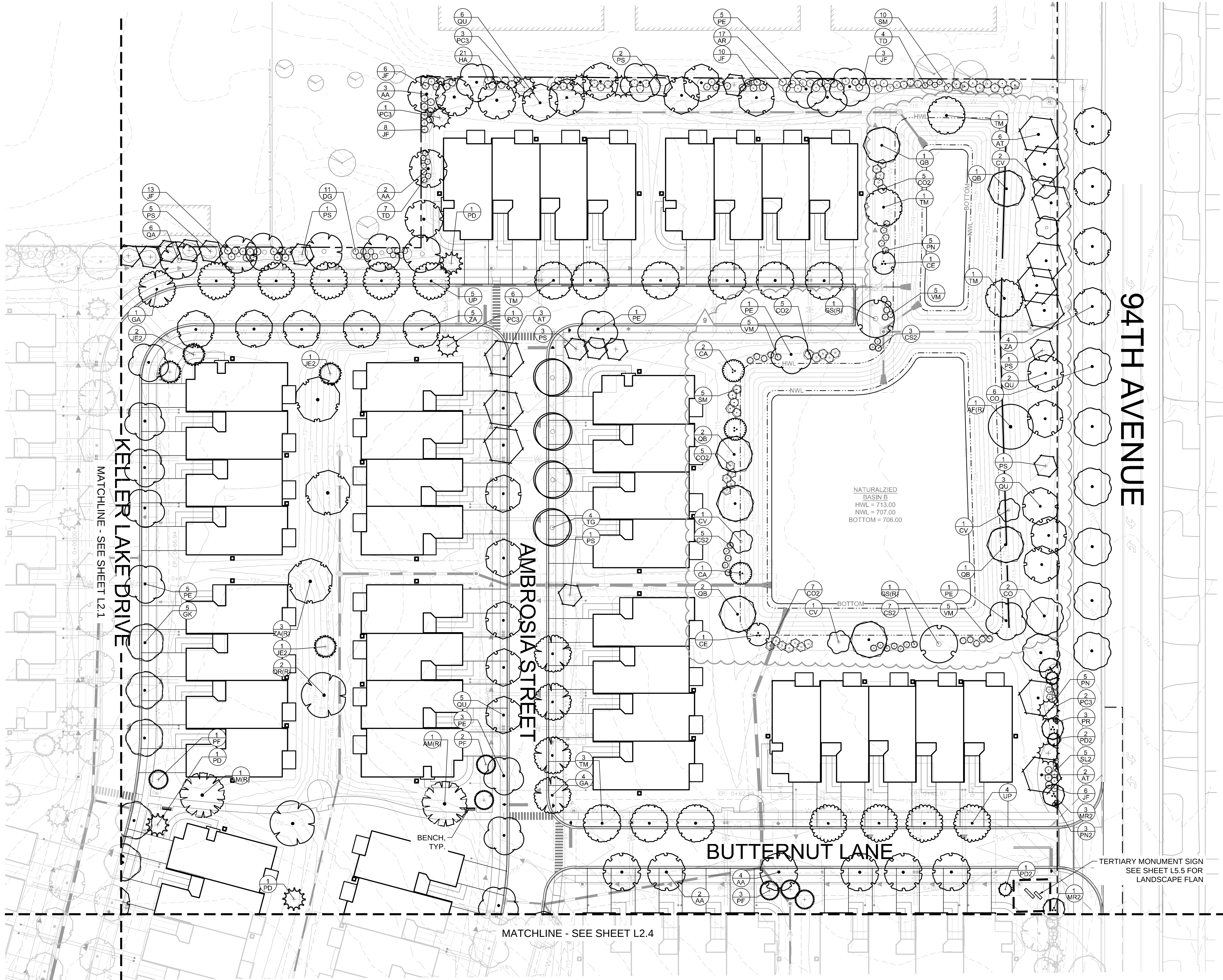
**ORLAND RIDGE**  
LAGRANGE ROAD & 171ST STREET  
ORLAND PARK, IL 60487

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

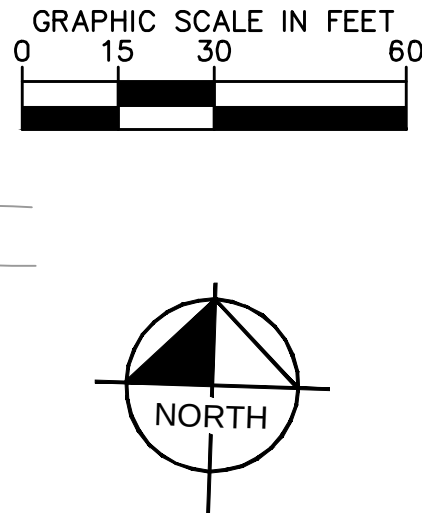
C6.0

| NO. | REVISIONS                           | DATE     | BY  |
|-----|-------------------------------------|----------|-----|
| 1   | REVISED PER VILLAGE/CCDOT COMMENTS  | 02/14/20 | WAW |
| 2   | ADDENDUM 1 - LANDSCAPE              | 02/06/20 | SKA |
| 3   | REVISED PER IDOT COMMENTS           | 02/05/20 | WAW |
| 4   | LANDSCAPE REV PER VILLAGE COMMENTS  | 01/09/20 | WAW |
| 5   | REVISED PER VILLAGE/MWRD/CCDOT COM. | 12/20/19 | WAW |
| 6   | REVISED PER CCOT COMMENTS           | 11/21/19 | WAW |
| 7   | REVISED PER VILLAGE/MWRD COMMENTS   | 10/15/19 | WAW |

Drawing name: K:\GIS\_DEVELOPMENT\168626000\_ar\_jacobson\_orland\_ridge\12.2 OVERALL LANDSCAPE PLAN.dwg    Feb 14, 2020 12:05pm    By: spencerandresen  
This document, together with the concepts and designs presented herein, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.



SEE L2.9 FOR PLANT SCHEDULE  
SEE L6.0 FOR GROUNDCOVER PLAN



| REVISIONS |                                     | DATE     | BY  |
|-----------|-------------------------------------|----------|-----|
| 1         | REVISED PER VILLAGE/CCDOT COMMENTS  | 02/14/20 | WAW |
| 2         | ADDENDUM 1 - LANDSCAPE              | 02/06/20 | SKA |
| 3         | REVISED PER DOT COMMENTS            | 02/05/20 | WAW |
| 4         | LANDSCAPE REV PER VILLAGE COMMENTS  | 07/09/20 | WAW |
| 5         | REVISED PER VILLAGE/MWRD/CCDOT COM. | 12/20/19 | WAW |
| 6         | REVISED PER CCOT COMMENTS           | 11/21/19 | WAW |
| 7         | REVISED PER VILLAGE/MWRD COMMENTS   | 10/15/19 | WAW |
| 8         |                                     |          |     |
| 9         |                                     |          |     |
| 10        |                                     |          |     |
| 11        |                                     |          |     |
| 12        |                                     |          |     |
| 13        |                                     |          |     |
| 14        |                                     |          |     |
| 15        |                                     |          |     |
| 16        |                                     |          |     |
| 17        |                                     |          |     |
| 18        |                                     |          |     |
| 19        |                                     |          |     |
| 20        |                                     |          |     |
| 21        |                                     |          |     |
| 22        |                                     |          |     |
| 23        |                                     |          |     |
| 24        |                                     |          |     |
| 25        |                                     |          |     |
| 26        |                                     |          |     |
| 27        |                                     |          |     |
| 28        |                                     |          |     |
| 29        |                                     |          |     |
| 30        |                                     |          |     |
| 31        |                                     |          |     |
| 32        |                                     |          |     |
| 33        |                                     |          |     |
| 34        |                                     |          |     |
| 35        |                                     |          |     |
| 36        |                                     |          |     |
| 37        |                                     |          |     |
| 38        |                                     |          |     |
| 39        |                                     |          |     |
| 40        |                                     |          |     |
| 41        |                                     |          |     |
| 42        |                                     |          |     |
| 43        |                                     |          |     |
| 44        |                                     |          |     |
| 45        |                                     |          |     |
| 46        |                                     |          |     |
| 47        |                                     |          |     |
| 48        |                                     |          |     |
| 49        |                                     |          |     |
| 50        |                                     |          |     |
| 51        |                                     |          |     |
| 52        |                                     |          |     |
| 53        |                                     |          |     |
| 54        |                                     |          |     |
| 55        |                                     |          |     |
| 56        |                                     |          |     |
| 57        |                                     |          |     |
| 58        |                                     |          |     |
| 59        |                                     |          |     |
| 60        |                                     |          |     |
| 61        |                                     |          |     |
| 62        |                                     |          |     |
| 63        |                                     |          |     |
| 64        |                                     |          |     |
| 65        |                                     |          |     |
| 66        |                                     |          |     |
| 67        |                                     |          |     |
| 68        |                                     |          |     |
| 69        |                                     |          |     |
| 70        |                                     |          |     |
| 71        |                                     |          |     |
| 72        |                                     |          |     |
| 73        |                                     |          |     |
| 74        |                                     |          |     |
| 75        |                                     |          |     |
| 76        |                                     |          |     |
| 77        |                                     |          |     |
| 78        |                                     |          |     |
| 79        |                                     |          |     |
| 80        |                                     |          |     |
| 81        |                                     |          |     |
| 82        |                                     |          |     |
| 83        |                                     |          |     |
| 84        |                                     |          |     |
| 85        |                                     |          |     |
| 86        |                                     |          |     |
| 87        |                                     |          |     |
| 88        |                                     |          |     |
| 89        |                                     |          |     |
| 90        |                                     |          |     |
| 91        |                                     |          |     |
| 92        |                                     |          |     |
| 93        |                                     |          |     |
| 94        |                                     |          |     |
| 95        |                                     |          |     |
| 96        |                                     |          |     |
| 97        |                                     |          |     |
| 98        |                                     |          |     |
| 99        |                                     |          |     |
| 100       |                                     |          |     |

SCALE: AS NOTED

DESIGNED BY: TIR

DRAWN BY: JDC

CHECKED BY: WAW

**Kimley»Horn**

© 2020 KIMLEY-HORN AND ASSOCIATES, INC.  
1001 WAREVILLE ROAD, SUITE 350,  
Lisle, IL 60532  
TEL: 630.332.4550  
WWW.KIMLEY-HORN.COM

**SR JACOBSON**

SENIOR LANDSCAPE ARCHITECT

**OVERALL LANDSCAPE PLAN**

**ORLAND RIDGE**

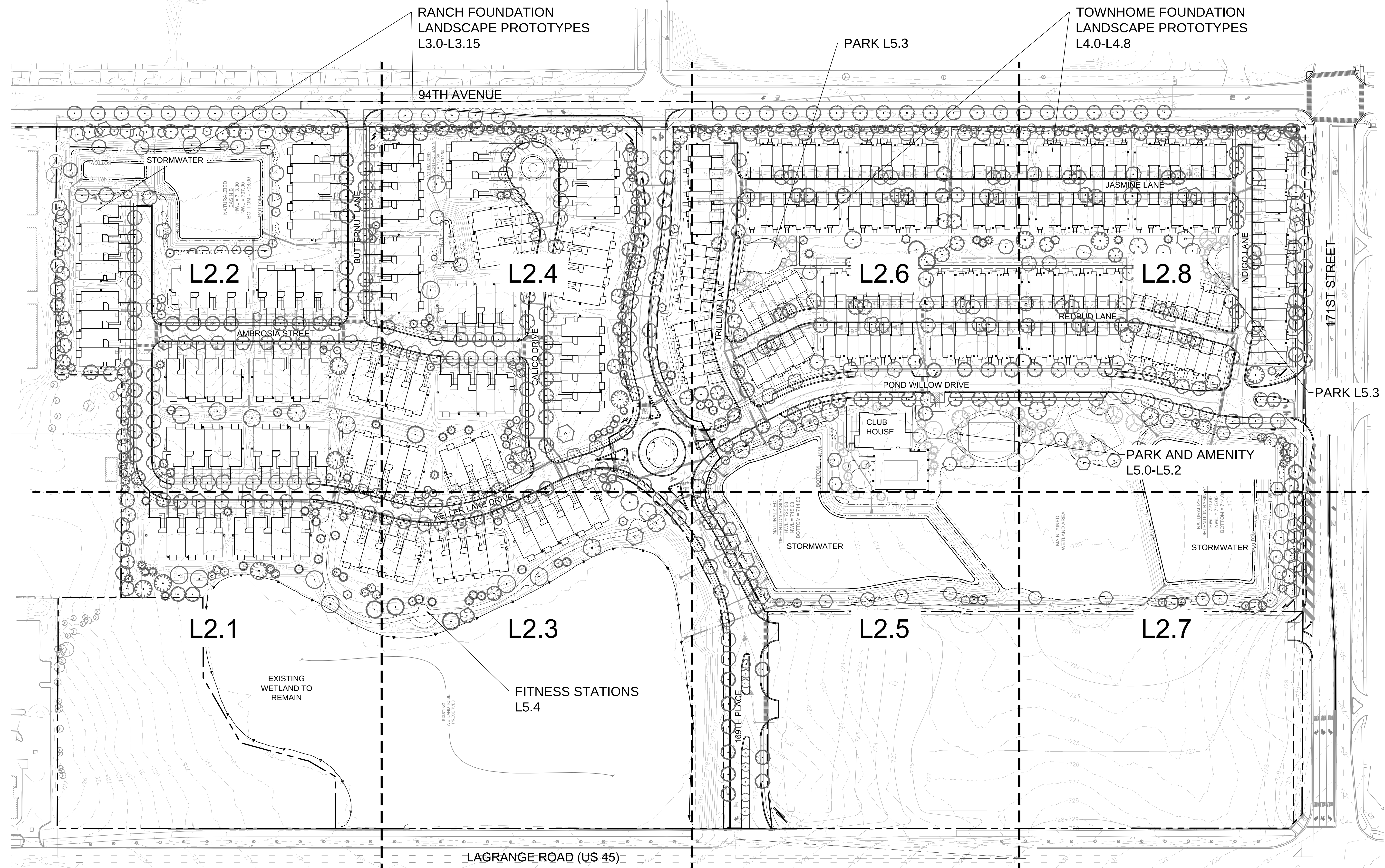
LAGRANGE ROAD & 171ST STREET  
ORLAND PARK, IL 60487

ORIGINAL ISSUE:  
07/17/2019

KHA PROJECT NO.  
168626000

SHEET NUMBER

L2.2



SEE L2.9 FOR PLANT SCHEDULE  
SEE L6.0 FOR GROUNDCOVER PLAN