

Manhard
CONSULTING LTD.

3900 Woodlands Parkway, Vernon Hills, IL 60061
Tel: 847/251-8800 Fax: 847/251-8800
Toll Free: 1-800-391-8800

• Environmental Services • Landscapes • Architecture • Engineering
• Construction Management • Construction Management • Construction Management • Construction Management

manhard.com

PROJ. MGR.: JDF
 PROJ. ASSOC.: CEM
 DRAWN BY: REH
 DATE: 9-12-13
 SCALE: 1" = 50'

SHEET
1 OF 5
KNZOP 130475

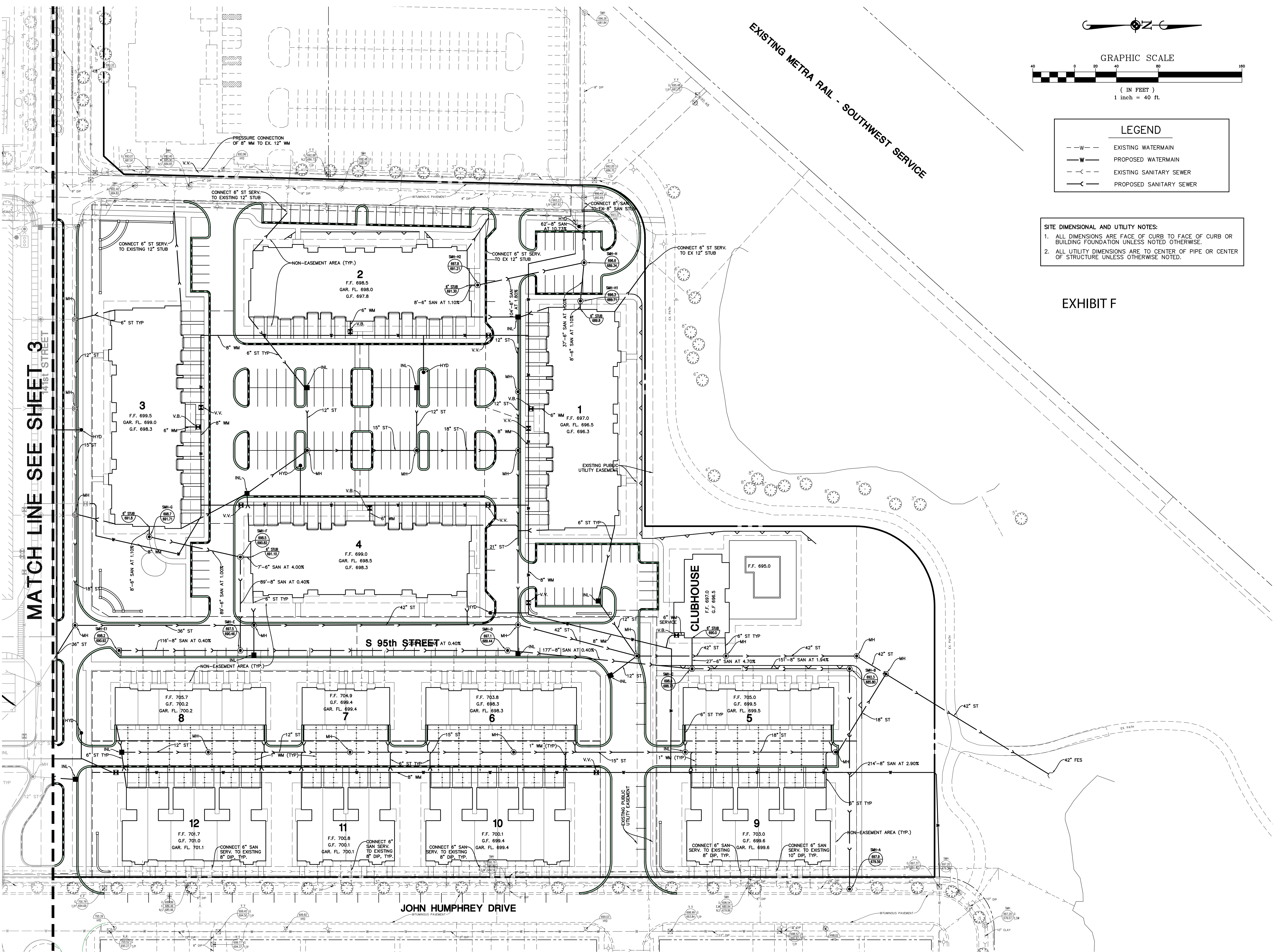


EXHIBIT F

LEGEND

- -W- - EXISTING WATERMAIN
 —W— PROPOSED WATERMAIN
 - -C- - EXISTING SANITARY SEWER
 —C— PROPOSED SANITARY SEWER

SITE DIMENSIONAL AND UTILITY NOTES:

1. ALL DIMENSIONS ARE FACE OF CURB TO FACE OF CURB OR BUILDING FOUNDATION UNLESS NOTED OTHERWISE.
2. ALL UTILITY DIMENSIONS ARE TO CENTER OF PIPE OR CENTER OF STRUCTURE UNLESS OTHERWISE NOTED.

MATCH LINE SEE SHEET 3

EXISTING METRA RAIL - SOUTHWEST SERVICE

JOHN HUMPHREY DRIVE

CLUBHOUSE

S 95th STREET

[illegible]

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800 Woodlands Parkway, Vernon Hills, IL 60061 ph:847.834.9550 fx:847.834.0085 manhard.com
Civil Engineers • Surveyors • Water Resource Engineers • Water & Wastewater Engineers

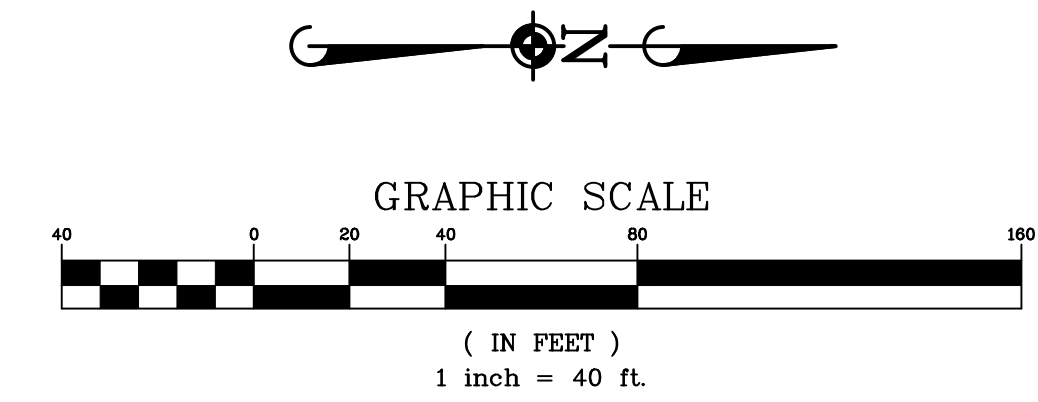
ORLAND PARK CROSSING

VILLAGE OF ORLAND PARK, ILLINOIS

PRELIMINARY SANITARY SEWER & WATER MAIN PLAN

PROJ. MGR.: JDF
 PROJ. ASSOC.: CEM
 DRAWN BY: REH
 DATE: 9-12-13
 SCALE: 1" = 40'
 SHEET
2 OF 5
 KNZOP 130475

October 31, 2013 - 15:05 Dwg Name: P:\kzop\dwg\Eng\Preliminary\PRELIM-UTL.dwg Updated By: cmills



- -W- - EXISTING WATERMAIN
 —W— PROPOSED WATERMAIN
 - -C- - EXISTING SANITARY SEWER
 —C— PROPOSED SANITARY SEWER

1. ALL DIMENSIONS ARE FACE OF CURB TO FACE OF CURB OR BUILDING FOUNDATION UNLESS NOTED OTHERWISE.
2. ALL UTILITY DIMENSIONS ARE TO CENTER OF PIPE OR CENTER OF STRUCTURE UNLESS OTHERWISE NOTED.

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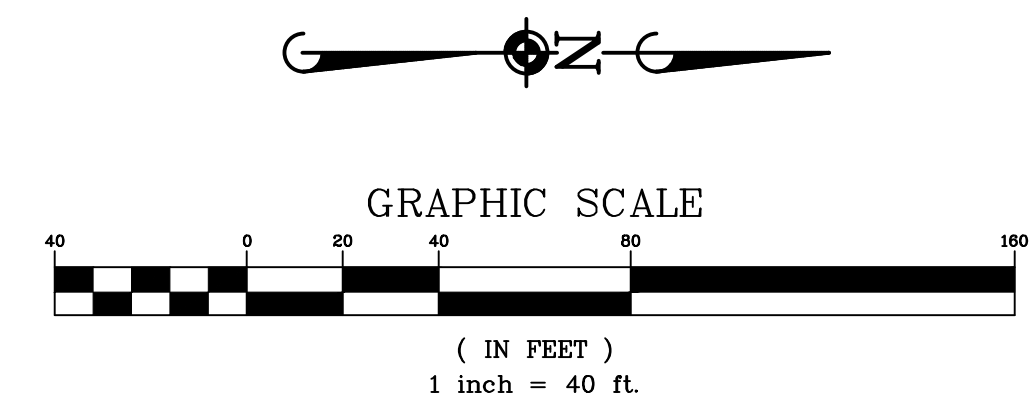
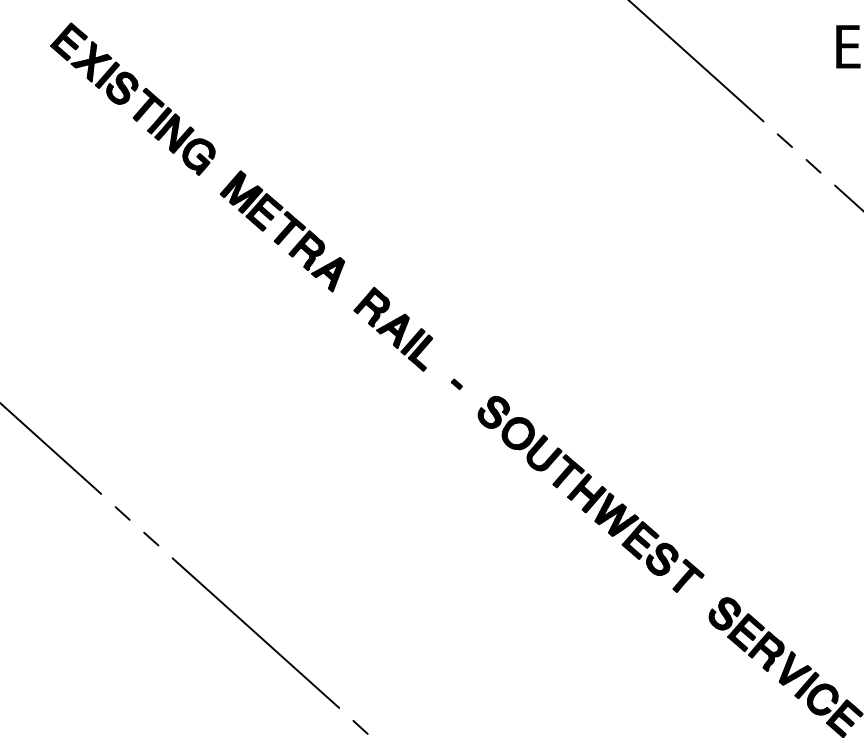
Construction Managers • Environmental Scientists • Landscape Architects • Planners

PROJ. MGR.: JDF
 PROJ. ASSOC.: CEM
 DRAWN BY: REH
 DATE: 9-12-13
 SCALE: 1" = 40'

SHEET

3 OF 5

KNZOP 130475

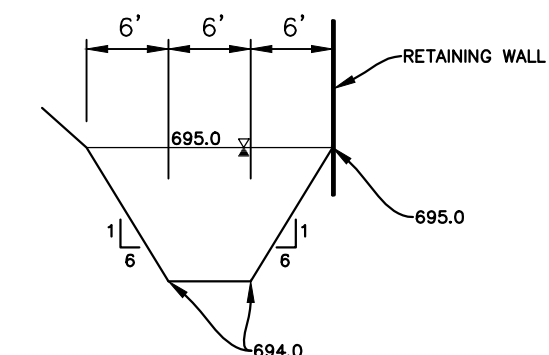


LEGEND

- | | |
|--|--------------------------------|
| | EXISTING STORM SEWER |
| | PROPOSED STORM SEWER |
| | PROPOSED PAVEMENT ELEVATION |
| | DIRECTION OF FLOW |
| | EMERGENCY OVERLAND FLOOD ROUTE |

GRADING NOTES:

1. PAYEMENT SLOPES THROUGH HANDICAP ACCESSIBLE PARKING AREAS SHALL BE 2.00% MAXIMUM IN ANY DIRECTION.
2. ALL HANDICAP RAMPS SHALL BE CONSTRUCTED WITH A MAXIMUM CROSS SLOPE OF 2.00% OR LESS.
3. MEET EXISTING GRADE AT PROPERTY LIMITS UNLESS NOTED OTHERWISE.
4. THE CONTRACTOR SHALL CONTACT J.U.L.I.E. (1-800-892-0123) PRIOR TO ANY WORK TO LOCATE UTILITIES AND SHALL CONTACT THE OWNER SHOULD UTILITIES APPEAR TO BE IN CONFLICT WITH THE PROPOSED IMPROVEMENT.
5. ALL GRADES ARE PAVEMENT GRADES UNLESS OTHERWISE MARKED.
6. PROPOSED IMPROVEMENTS ARE TRIBUTARY TO THE EXISTING NORTH DETENTION BASIN PREVIOUSLY PERMITTED BY MWRD PERMIT #05-035.



CROSS SECTION A-A

ORLAND PARK CROSSING

ORLAND PARK, ILLINOIS

PRELIMINARY GRADING & STORM SEWER PLAN - NORTH

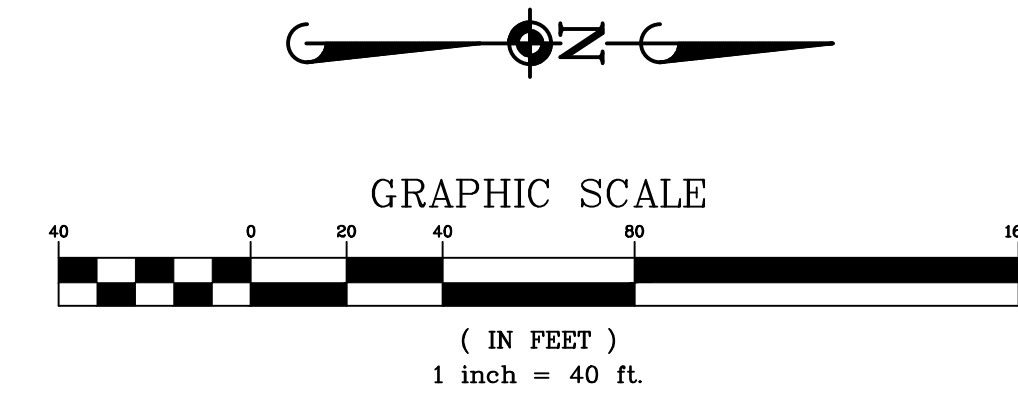
PROJ. MGR.: JDF
PROJ. ASSOC.: CEM
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DATE: 9-12-13
SCALE: 1" = 40'

SHEET

4 OF 5

KNZOP 13047

October 31, 2013 - 15:02 Dwg Name: P:\Kzoo\dwg\Eng\Preliminary\PRELIM-GRADING.dwg Updated By: cmills



EXISTING STORM SEWER
PROPOSED STORM SEWER
PROPOSED PAVEMENT ELEVATION
DIRECTION OF FLOW
EMERGENCY OVERLAND FLOOD ROUTE

1. PAVEMENT SLOPES THROUGH HANDICAP ACCESSIBLE PARKING AREAS SHALL BE 2.00% MAXIMUM IN ANY DIRECTION.
2. ALL HANDICAP RAMPS SHALL BE CONSTRUCTED WITH A MAXIMUM CROSS SLOPE OF 2.00% OR LESS.
3. MEET EXISTING GRADE AT PROPERTY LIMITS UNLESS NOTED OTHERWISE.
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PRELIMINARY GRADING & STORM SEWER PLAN - SOUTH

PROJ. MGR.:	JDF
PROJ. ASSOC.:	CEM
DRAWN BY:	REH
DATE:	9-12-13
SCALE:	1" = 40'

SHEET

5 OF 5

KNZOP 130475