PRELIMINARY

STORMWATER DRAINAGE REPORT

for

QuikTrip Store #4452

1610 Plainfield Road
Crest Hill, Will County, Illinois 60403

Prepared For:
QuikTrip Corporation
5725 Foxridge Drive
Mission, Kansas 66202

Prepared By:
Midwest Design Group
P.O. Box 860015
Shawnee, Kansas 66286-0015
913.248.9385

ENGINEER'S CERTIFICATION
Stormwater Drainage Report
QuikTrip Store #4452

1610 Plainfield Road
Crest Hill, Will County, Illinois 60403

I Hereby Certify that this Engineering Document was prepared by me, or under my direct supervision, and that I am a duly Registered Professional Engineer under the laws of the State of Illinois.

Jonathon Smith

Jonathon Smith, P.E.
Project Manager
IL Registration No. 062-073894

January 9, 2026
Date

Seal

REPORT PURPOSE

This stormwater drainage report has been prepared to detail the stormwater drainage design for the QuikTrip Store #4452 facility to be located at the north corner of the intersection of Plainfield Road and Theodore Street in Crest Hill, Will County, Illinois. This study will confirm that the proposed development will comply with the design parameters set forth by the Crest Hill Stormwater Drainage and Detention Ordinance.

PROJECT SUMMARY

QuikTrip Corporation is proposing to build a new convenience store with fuel offerings in the north corner of the intersection of Plainfield Road and Theodore Street. The development will include a convenience store, auto fuel canopy, parking stalls, and associated sidewalk and curb and gutter. The store will be oriented to face Plainfield Road (southwest) with an auto fuel canopy southwest of the store. The new QuikTrip facility will constructed on a parcel of land located in the Southeast ¼ of Section 31, Township 36 North, Range 10 East of the Third Principal Meridian in Crest Hill, Will County, Illinois. The land will be split into Lot 1 (87,201 sf), Lot 2 (71,685 sf), and Tract A (53,529 sf). The new QuikTrip project will be constructed on Lot 1 and a detention facility will be constructed on Tract A that will serve both Lots 1 and 2. The entire property will contain 212,415 s.f. (4.876 acres). The Overall Site Plan (C010) and Site Plan (C100) have been included in the Appendix of this report for reference.

WATERSHED

This property lies within the Des Plaines River Watershed. The detention facility will outlet north using the existing control structure's outlet pipe, which outlets to a ditch along Knapp Drive which drains to an outlet point under Larkin Avenue to the Rock Run located along the west side of Larkin Avenue. Ultimately, runoff drains to the Des Plaines River. Refer to FEMA and USGS map in the Appendix.

FLOODPLAIN CERTIFICATE

According to the National Flood Insurance Program (NFIP) Flood Insurance Rate Map (FIRM) Panel No. 17197C0161G, effective February 15, 2019, as published by the Federal Emergency Management Agency, the subject property lies mostly within Flood Zone "X", areas determined to be "outside the 0.2% annual chance floodplain". It appears a minimal portion of the south corner of the property is within Zone AE, but no grading or improvements are proposed in this area.

Map taken from FIRM Panel Number 17197C0161G, dated February 15, 2019.

SITE SOIL CHARACTERISTICS

This property contains the following soil classifications:

- 149A – Brenton Silt Loam, 0-2% slopes, HSG B/D
- 223C2 – Varna Silt Loam, 4-6% slopes, HSG C
- 223D2 – Varna Silt Loam, 6-12% slopes, HSG C
- 329A – Will silty clay loam, 0-2% slopes, HSG B/D

The USDA/NRCS soil survey can be found in the Appendix.

Map taken from USDA/NRCS Soil Survey

WETLANDS

Per the U.S. Fish and Wildlife Service National Wetland Inventory (NWI) map, there are no wetlands present within the property. Refer to the Appendix for the NWI map.

METHODOLOGY

The proposed drainage characteristics of the site were evaluated and analyzed based on the Crest Hill Stormwater Drainage and Detention Ordinance criteria. Hydrologic calculations were performed and detention requirements were determined using the Autodesk Hydraflow Hydrographs program (SCS Method). Runoff curve numbers of 80 for proposed pervious areas and 98 for impervious areas were used. Illinois State Water Survey (ISWS) Bulletin 75 rainfall data was used with Huff 3rd Quartile distribution for a 24-hour storm event.

EXISTING DEVELOPMENT

The existing property is currently partially developed with a commercial development (Crest Hill Public Works) within Lot 1 and part of Tract A. Lot 2 was previously rough graded and storm sewer was installed for a pad site but was never fully developed. Tract A was also previously partially developed as a pad site and an existing detention facility was constructed. It appears Lot 2 and Tract A drain to the existing detention facility but it does not appear that the Crest Hill Public Works building development drains to the existing detention facility. The property is bordered on the east by Knapp Drive, on the northwest by an adjacent commercial property, on the southwest by Plainfield Road, and on the south by Theodore Street.

In the existing conditions, the site generally drains from southwest to northeast either into the detention facility or into Knapp Drive. It appears the southern corner of the site drains directly into Rock Run. The rest of the site drains either directly into Knapp Drive, which appears to have drainage swales adjacent to the property, or through the detention facility which then outlets north and it is assumed it ultimately drains to Rock Run.

The existing site contains approximately 75,122 sf of impervious areas (35.4%), 1,746 sf of gravel area (0.8%), and 135,547 sf of pervious areas (63.8%). A pre-development runoff coefficient and Curve Number was calculated for all drainage areas using the NRCS Soils Report and TR-55 runoff coefficient tables. The pre-development composite runoff coefficient and Curve Number (CN) is 0.52 and 86.5, accordingly. The associated calculations are included in the Appendix. Refer to the Pre-Developed Drainage Map in the Appendix (Pending final report).

PROPOSED DEVELOPMENT

The proposed development will be graded to generally maintain existing drainage patterns. Stormwater runoff from the QuikTrip development will be captured and conveyed in private storm sewers to the detention facility within Tract A. The private storm sewer has been designed to convey the 100-year design storm. The proposed detention facility will have a control structure to reduce peak runoff from the proposed improvements. The proposed control structure will utilize the existing outlet pipe from the existing control structure.

For this preliminary report, simplified drainage areas were used for analysis purposes. Drainage area “Detained” is the estimated area that will be detained in full build out condition (when Lots 1 and 2 are fully developed). A Curve Number (CN) value of 95 was assumed based on the TR-55 Manual, using a cover type of Urban Districts, Commercial and Businesses and Hydrologic Soil Group (HSG) D. It is preliminarily estimated that 12% of the total site area will not be

captured and will be uncontrolled runoff (Drainage area "Uncontrolled"). A CN Value of 85 was assumed for the uncontrolled area.

It is estimated the full build out condition will contain 172,665 sf of impervious areas (81.3%) and 39,750 sf of pervious areas (18.7%). This is an increase of 95,797 square feet in impervious area from existing conditions. A post-development runoff coefficient and Curve Number was calculated for all drainage areas using the NRCS Soils Report and TR.-55 runoff coefficient tables. The post-development composite runoff coefficient and Curve Number (CN) is 0.79 and 94.6, accordingly. The proposed storm sewer system, detention facilities, and associated calculations are included in the Appendix. Refer to the Post-Developed Drainage Map in the Appendix (Pending final report).

DETENTION REQUIREMENTS

Per the Crest Hill Stormwater Drainage and Detention Ordinance, "*The peak discharge from events less than or equal to the two-year event shall not be greater than 0.04 cfs per acre of property drained. The peak 100-year discharge shall not be greater than 0.15 cfs per acres of property drained.*"

The total property drained is 4.876 acres, which results in allowable release rates for the 2-year and 100-year storm events of 0.195 cfs and 0.731 cfs, accordingly. Peak discharges from the facility will be controlled through a control structure with an internal weir wall and multi-stage orifices. Additional detention information and design calculations can be found in the Appendix.

DOWNSTREAM DRAINAGE IMPACTS

The proposed stormwater detention facilities will control peak runoff so that there will be no adverse impacts to downstream drainage facilities.

STORMWATER TREATMENT

QuikTrip will install SNOUT water quality units upstream of the detention facility and in the detention outlet structure. Bio-skirts will be added to the SNOUT units for oil absorption. Information on these water quality units can be found in the Appendix.

FLOOD STUDY

The QuikTrip Store No. 4452 improvements will be within Zone "X" on the property, as shown in the Floodplain Certificate section. This development is not expected to incur damages as a result of flooding.

U.S. ARMY CORPS OF ENGINEERS RQUIREMENTS

The QuikTrip Store No. 4452 project will not disturb jurisdictional waters or wetlands of the U.S.

CONCLUSION

The QuikTrip Store No. 4452 development will comply with the design parameters set forth by the Crest Hill Stormwater Drainage and Detention Ordinance. The existing detention pond provides approximately 75,213 cubic-feet of detention volume (at elevation 603.00). The existing detention pond will be removed and replaced with a new detention facility that will provide 153,030 cubic-feet of volume (at elevation 603.00). The required detention volume, based on the CN assumptions described in the *Proposed Development* section, will be approximately 106,476 cubic-feet and will be provided at pond elevation 601.72. A stormwater detention facility has been designed to control the peak stormwater runoff from Lots 1 and 2 and Tract A (see table below for release rate summary). A private stormwater drainage system will convey runoff to the stormwater detention facility. Best Management Practices will be implemented to help improve water quality. No adverse effects are expected on adjacent properties or downstream drainage systems after the proposed improvements are completed.

Allowable Release Rates vs Post-Developed Release Rates Summary

Storm Event	Allowable Release Rate (cfs)	Post-Developed Peak Release Rate (cfs)
2-year	0.195	0.179
100-year	0.731	0.686

QuikTrip Store #4452

1610 Plainfield Road
Crest Hill, Will County, Illinois 60403

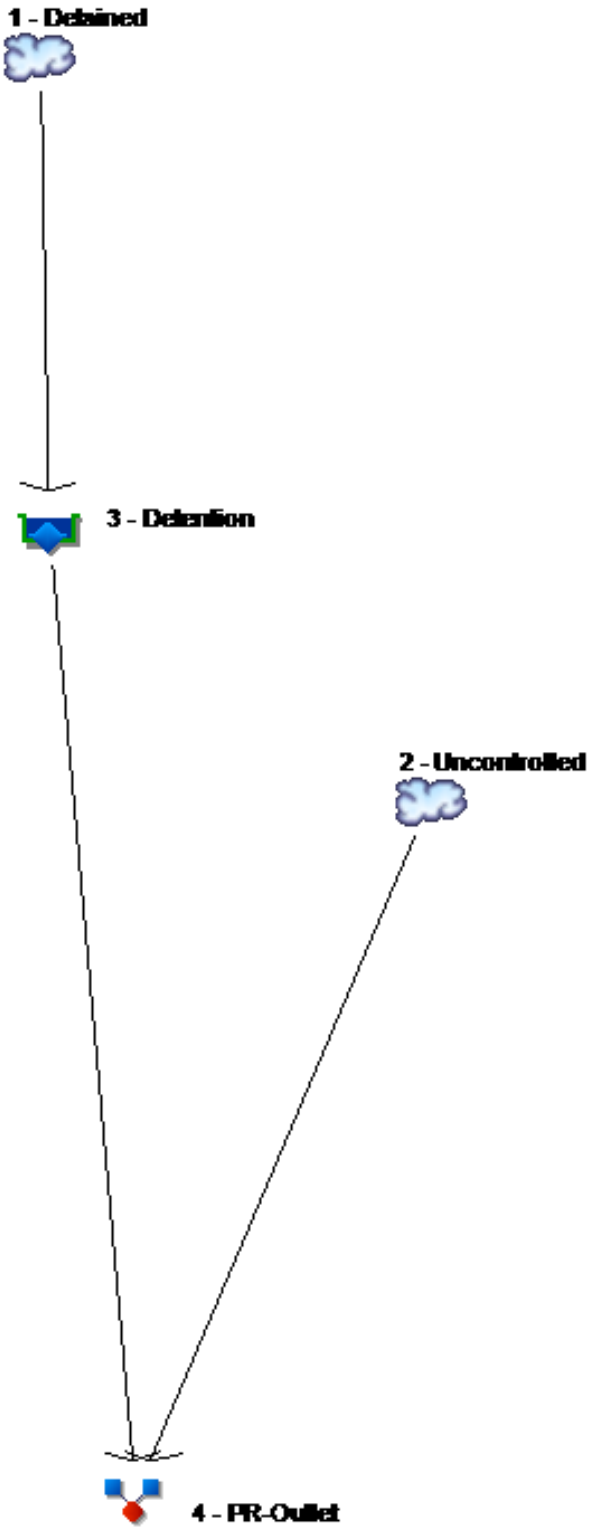
APPENDIX

Midwest Design Group

QuikTrip Store #4452

AutoDesk Hydraflow Hydrographs Results

Watershed Model Schematic



Hydraflow Rainfall Report

Precip. file name: \\DESKTOP-HIMC8GB\Documents\IL Northeast Precip (Bulletin 75-HUFF) Depths.pcp

Storm Distribution	Rainfall Precipitation Table (in)							
	1-yr	2-yr	3-yr	5-yr	10-yr	25-yr	50-yr	100-yr
SCS 24-hour	0.00	0.00	0.00	3.30	0.00	5.77	5.83	0.00
SCS 6-Hr	0.00	0.00	0.00	0.00	0.00	0.00	4.33	0.00
Huff-1st	0.00	0.00	0.00	2.75	0.00	5.38	6.50	0.00
Huff-2nd	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Huff-3rd	0.00	3.34	0.00	0.00	5.15	0.00	0.00	8.57
Huff-4th	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Huff-Indy	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Custom	0.00	0.00	0.00	2.80	0.00	5.25	6.00	0.00

Pond Report

Pond No. 3 - Detention

Pond Data

Contours -User-defined contour areas. Conic method used for volume calculation. Begining Elevation = 596.00 ft

Stage / Storage Table

Stage (ft)	Elevation (ft)	Contour area (sqft)	Incr. Storage (cuft)	Total storage (cuft)
0.00	596.00	00	0	0
1.00	597.00	10,000	3,333	3,333
2.00	598.00	15,000	12,415	15,748
3.00	599.00	20,000	17,438	33,186
4.00	600.00	25,000	22,451	55,637
5.00	601.00	30,000	27,459	83,097
6.00	602.00	35,000	32,465	115,561
7.00	603.00	40,000	37,468	153,030

Culvert / Orifice Structures

	[A]	[B]	[C]	[PrfRsr]
Rise (in)	= 0.75	2.25	0.00	0.00
Span (in)	= 0.75	2.25	0.00	0.00
No. Barrels	= 1	1	0	0
Invert El. (ft)	= 596.00	599.00	0.00	0.00
Length (ft)	= 0.00	0.00	0.00	0.00
Slope (%)	= 0.00	0.00	0.00	n/a
N-Value	= .013	.013	.013	n/a
Orifice Coeff.	= 0.60	0.60	0.60	0.60
Multi-Stage	= n/a	No	No	No

Weir Structures

	[A]	[B]	[C]	[D]
Crest Len (ft)	= 0.00	0.00	0.00	0.00
Crest El. (ft)	= 0.00	0.00	0.00	0.00
Weir Coeff.	= 3.33	3.33	3.33	3.33
Weir Type	= ---	---	---	---
Multi-Stage	= No	No	No	No

Exfil.(in/hr) = 0.000 (by Wet area)

TW Elev. (ft) = 0.00

Note: Culvert/Orifice outflows are analyzed under inlet (ic) and outlet (oc) control. Weir risers checked for orifice conditions (ic) and submergence (s).

Stage / Storage / Discharge Table

Stage ft	Storage cuft	Elevation ft	Clv A cfs	Clv B cfs	Clv C cfs	PrfRsr cfs	Wr A cfs	Wr B cfs	Wr C cfs	Wr D cfs	Exfil cfs	User cfs	Total cfs
0.00	0	596.00	0.00	0.00	---	---	---	---	---	---	---	---	0.000
1.00	3,333	597.00	0.01 ic	0.00	---	---	---	---	---	---	---	---	0.015
2.00	15,748	598.00	0.02 ic	0.00	---	---	---	---	---	---	---	---	0.021
3.00	33,186	599.00	0.03 ic	0.00	---	---	---	---	---	---	---	---	0.025
4.00	55,637	600.00	0.03 ic	0.13 ic	---	---	---	---	---	---	---	---	0.156
5.00	83,097	601.00	0.03 ic	0.18 ic	---	---	---	---	---	---	---	---	0.216
6.00	115,561	602.00	0.04 ic	0.23 ic	---	---	---	---	---	---	---	---	0.263
7.00	153,030	603.00	0.04 ic	0.26 ic	---	---	---	---	---	---	---	---	0.302

Pond Report

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2023 — Wednesday, 02 / 26 / 2025

Pond No. 3 - Detention

Pond Data

Contours -User-defined contour areas. Conic method used for volume calculation. Begining Elevation = 596.00 ft

Stage / Storage Table

Stage (ft)	Elevation (ft)	Contour area (sqft)	Incr. Storage (cuft)	Total storage (cuft)
0.00	596.00	00	0	0
1.00	597.00	10,000	3,333	3,333
2.00	598.00	15,000	12,415	15,748
3.00	599.00	20,000	17,438	33,186
4.00	600.00	25,000	22,451	55,637
5.00	601.00	30,000	27,459	83,097
6.00	602.00	35,000	32,465	115,561
7.00	603.00	40,000	37,468	153,030

Culvert / Orifice Structures

	[A]	[B]	[C]	[PrfRsr]
Rise (in)	= 0.75	2.25	0.00	0.00
Span (in)	= 0.75	2.25	0.00	0.00
No. Barrels	= 1	1	0	0
Invert El. (ft)	= 596.00	599.00	0.00	0.00
Length (ft)	= 0.00	0.00	0.00	0.00
Slope (%)	= 0.00	0.00	0.00	n/a
N-Value	= .013	.013	.013	n/a
Orifice Coeff.	= 0.60	0.60	0.60	0.60
Multi-Stage	= n/a	No	No	No

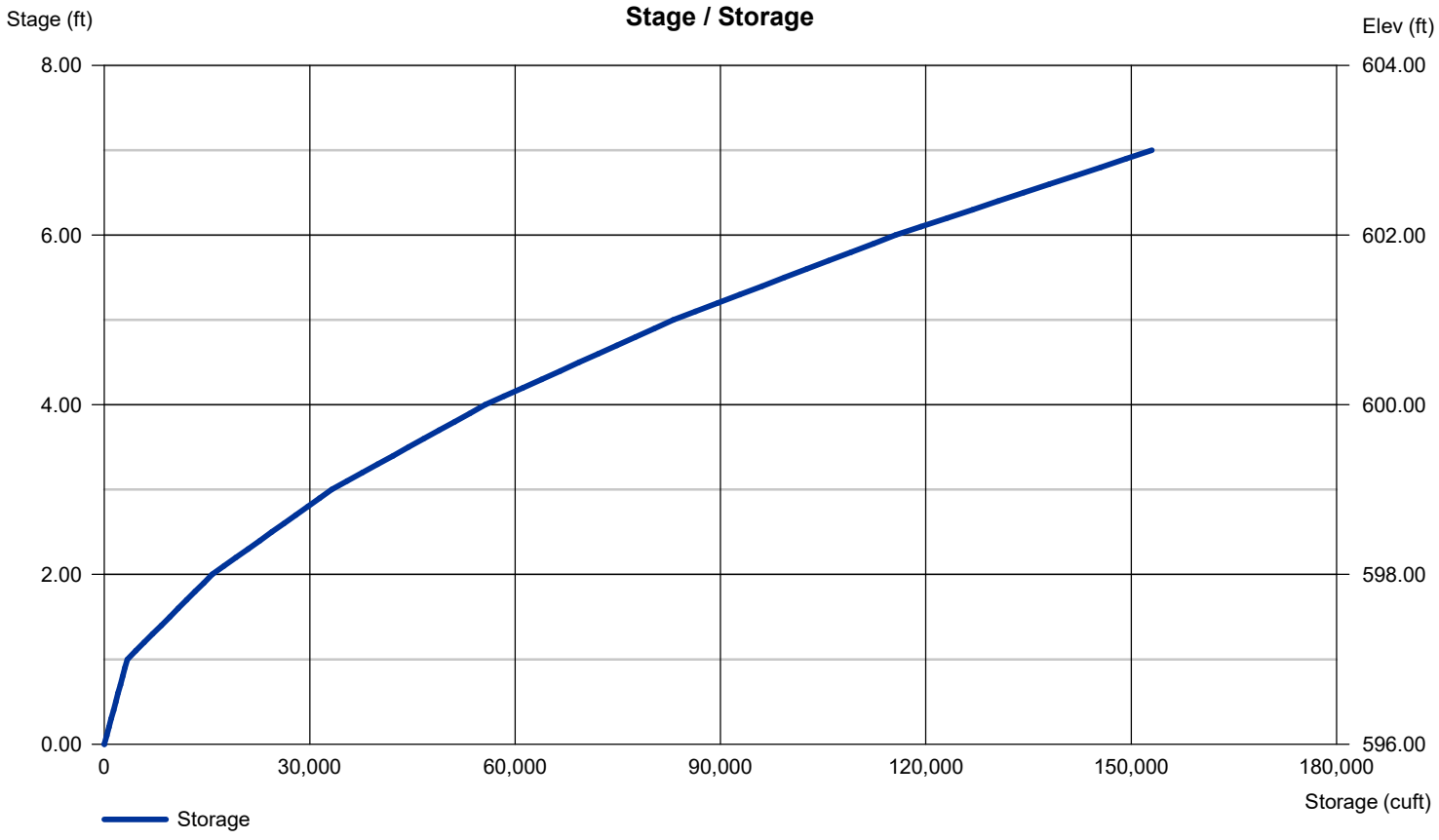
Weir Structures

	[A]	[B]	[C]	[D]
Crest Len (ft)	= 0.00	0.00	0.00	0.00
Crest El. (ft)	= 0.00	0.00	0.00	0.00
Weir Coeff.	= 3.33	3.33	3.33	3.33
Weir Type	= ---	---	---	---
Multi-Stage	= No	No	No	No

Exfil.(in/hr) = 0.000 (by Wet area)

TW Elev. (ft) = 0.00

Note: Culvert/Orifice outflows are analyzed under inlet (ic) and outlet (oc) control. Weir risers checked for orifice conditions (ic) and submergence (s).



Pond Report

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2023 — Wednesday, 02 / 26 / 2025

Pond No. 3 - Detention

Pond Data

Contours -User-defined contour areas. Conic method used for volume calculation. Begining Elevation = 596.00 ft

Stage / Storage Table

Stage (ft)	Elevation (ft)	Contour area (sqft)	Incr. Storage (cuft)	Total storage (cuft)
0.00	596.00	00	0	0
1.00	597.00	10,000	3,333	3,333
2.00	598.00	15,000	12,415	15,748
3.00	599.00	20,000	17,438	33,186
4.00	600.00	25,000	22,451	55,637
5.00	601.00	30,000	27,459	83,097
6.00	602.00	35,000	32,465	115,561
7.00	603.00	40,000	37,468	153,030

Culvert / Orifice Structures

	[A]	[B]	[C]	[PrfRsr]
Rise (in)	= 0.75	2.25	0.00	0.00
Span (in)	= 0.75	2.25	0.00	0.00
No. Barrels	= 1	1	0	0
Invert El. (ft)	= 596.00	599.00	0.00	0.00
Length (ft)	= 0.00	0.00	0.00	0.00
Slope (%)	= 0.00	0.00	0.00	n/a
N-Value	= .013	.013	.013	n/a
Orifice Coeff.	= 0.60	0.60	0.60	0.60
Multi-Stage	= n/a	No	No	No

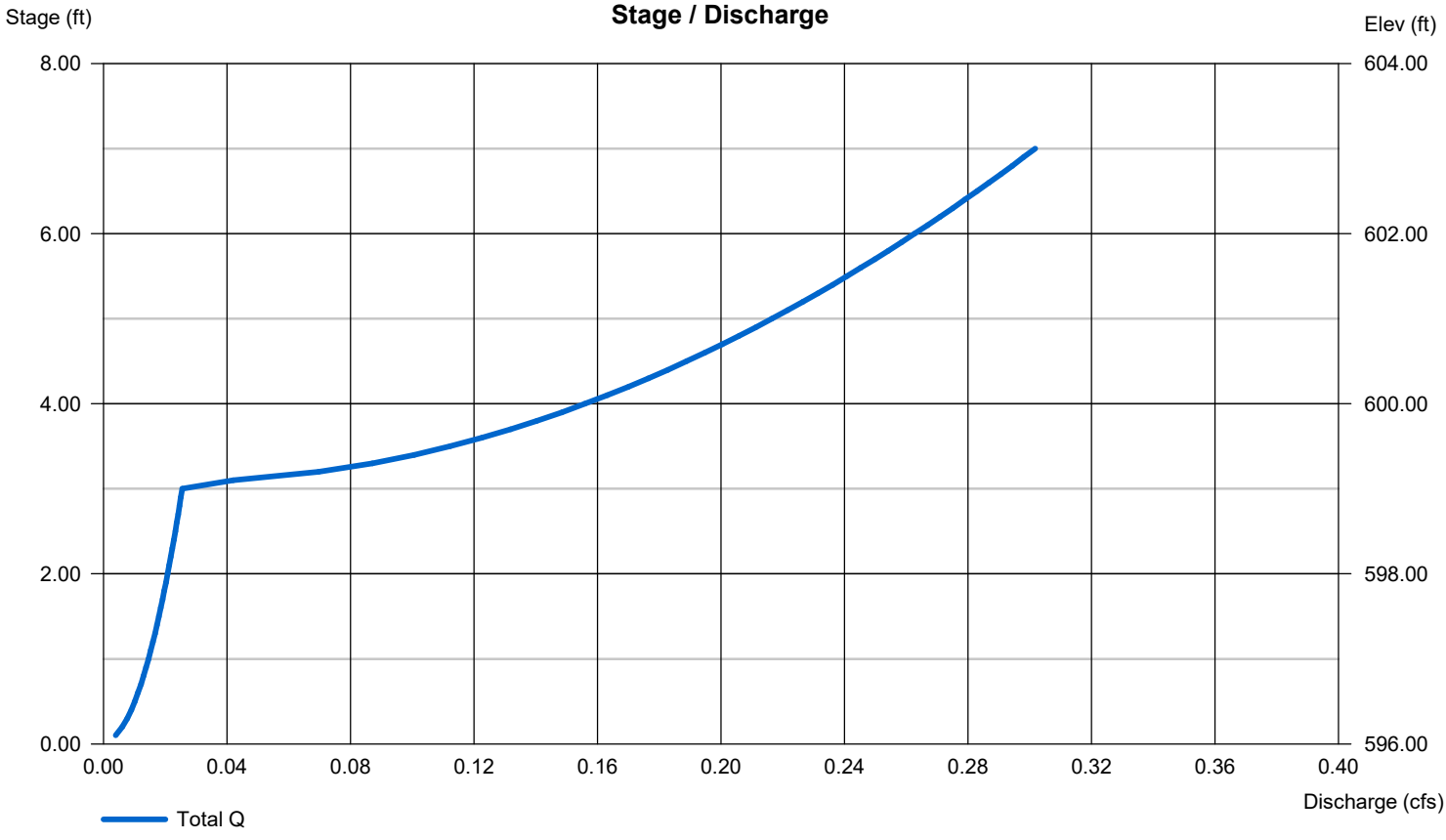
Weir Structures

	[A]	[B]	[C]	[D]
Crest Len (ft)	= 0.00	0.00	0.00	0.00
Crest El. (ft)	= 0.00	0.00	0.00	0.00
Weir Coeff.	= 3.33	3.33	3.33	3.33
Weir Type	= ---	---	---	---
Multi-Stage	= No	No	No	No

Exfil.(in/hr) = 0.000 (by Wet area)

TW Elev. (ft) = 0.00

Note: Culvert/Orifice outflows are analyzed under inlet (ic) and outlet (oc) control. Weir risers checked for orifice conditions (ic) and submergence (s).



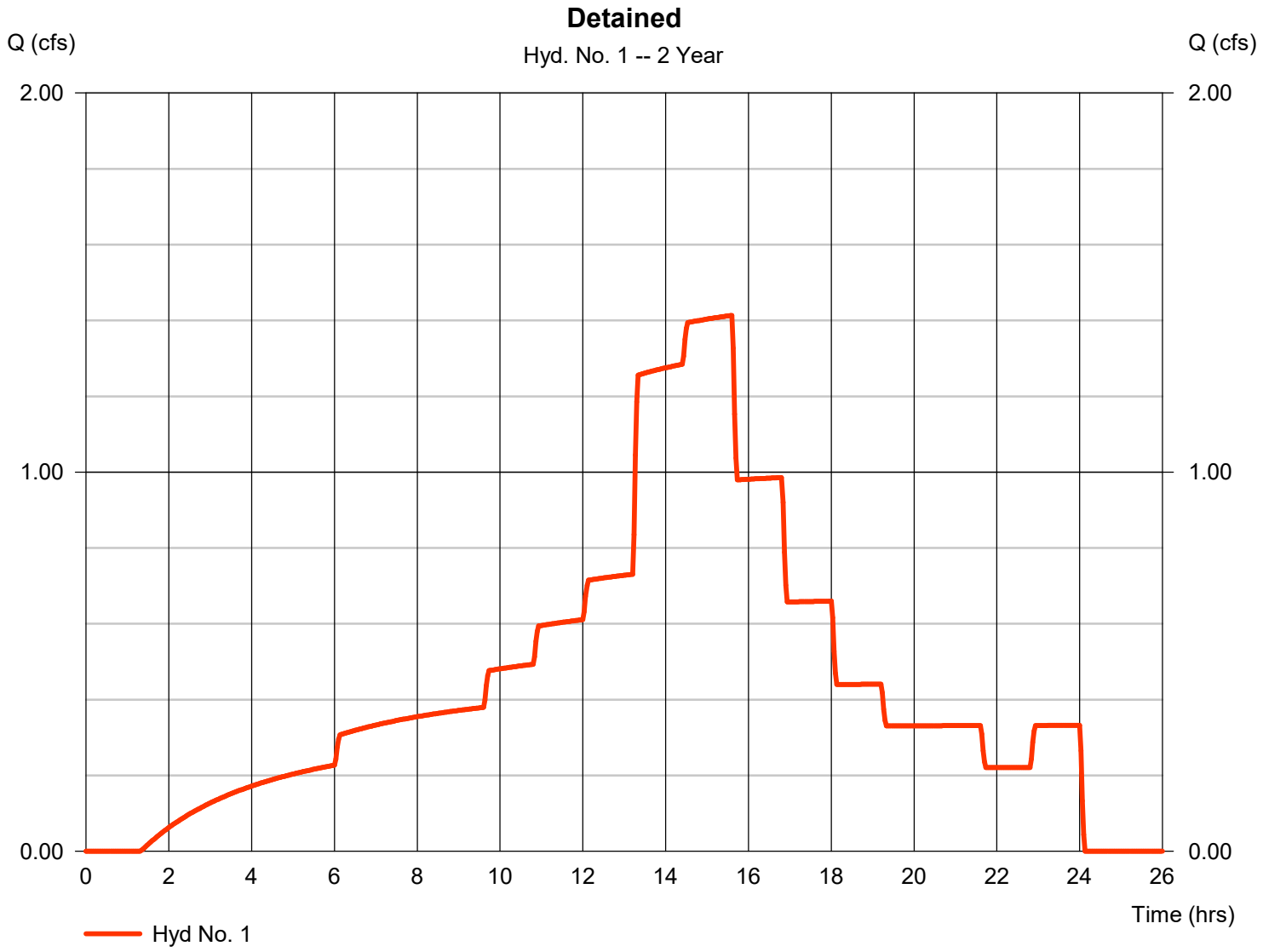
Hydrograph Report

Hyd. No. 1

Detained

Hydrograph type	=	SCS Runoff	Peak discharge	=	1.413 cfs
Storm frequency	=	2 yrs	Time to peak	=	15.60 hrs
Time interval	=	2 min	Hyd. volume	=	40,626 cuft
Drainage area	=	4.291 ac	Curve number	=	95*
Basin Slope	=	0.0 %	Hydraulic length	=	0 ft
Tc method	=	User	Time of conc. (Tc)	=	5.00 min
Total precip.	=	3.34 in	Distribution	=	Huff-3rd
Storm duration	=	24.00 hrs	Shape factor	=	484

* Composite (Area/CN) = [(1.550 x 98) + (0.560 x 80)] / 4.291

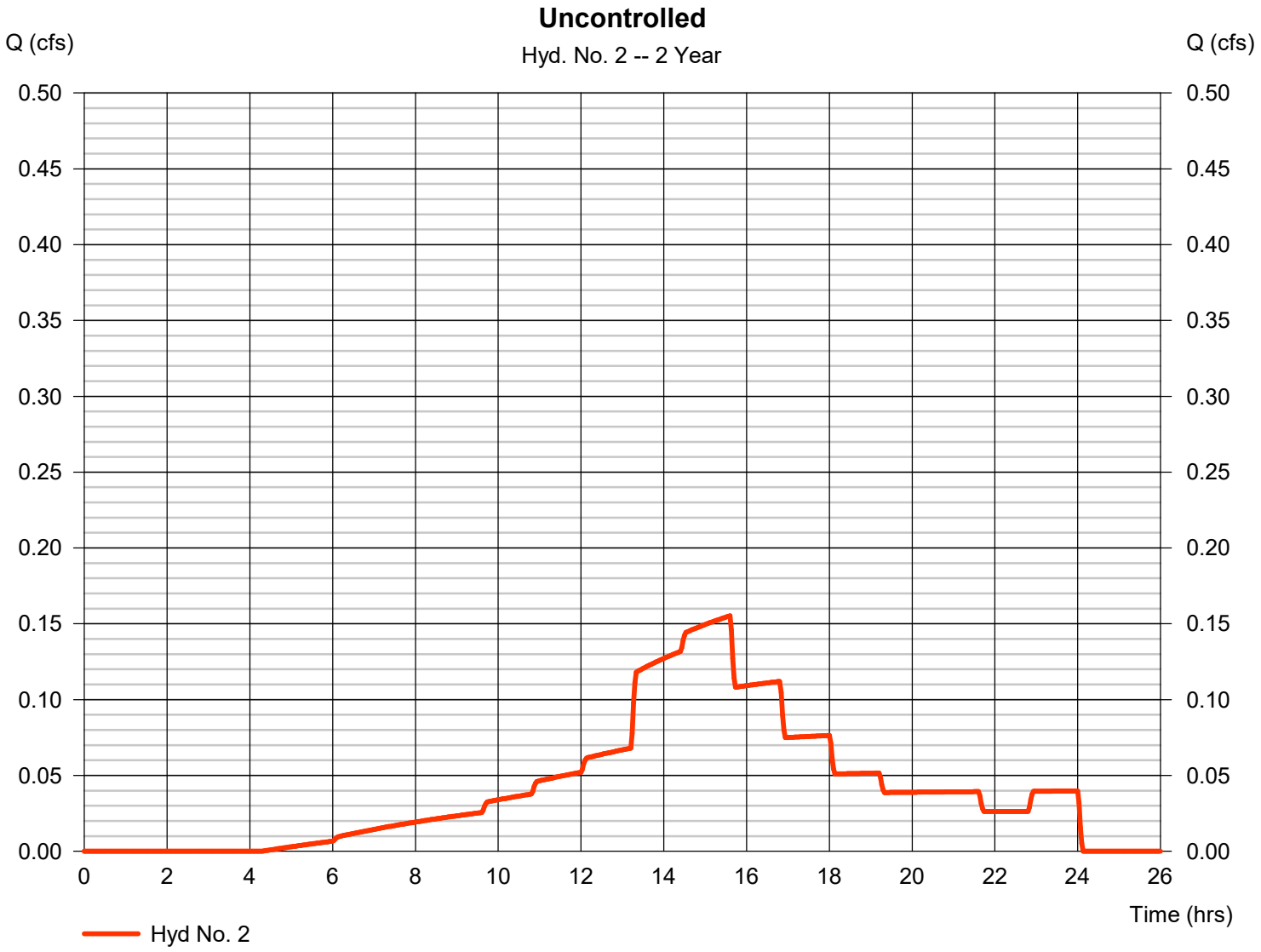


Hydrograph Report

Hyd. No. 2

Uncontrolled

Hydrograph type	=	SCS Runoff	Peak discharge	=	0.155 cfs
Storm frequency	=	2 yrs	Time to peak	=	15.60 hrs
Time interval	=	2 min	Hyd. volume	=	3,738 cuft
Drainage area	=	0.585 ac	Curve number	=	85
Basin Slope	=	0.0 %	Hydraulic length	=	0 ft
Tc method	=	User	Time of conc. (Tc)	=	5.00 min
Total precip.	=	3.34 in	Distribution	=	Huff-3rd
Storm duration	=	24.00 hrs	Shape factor	=	484



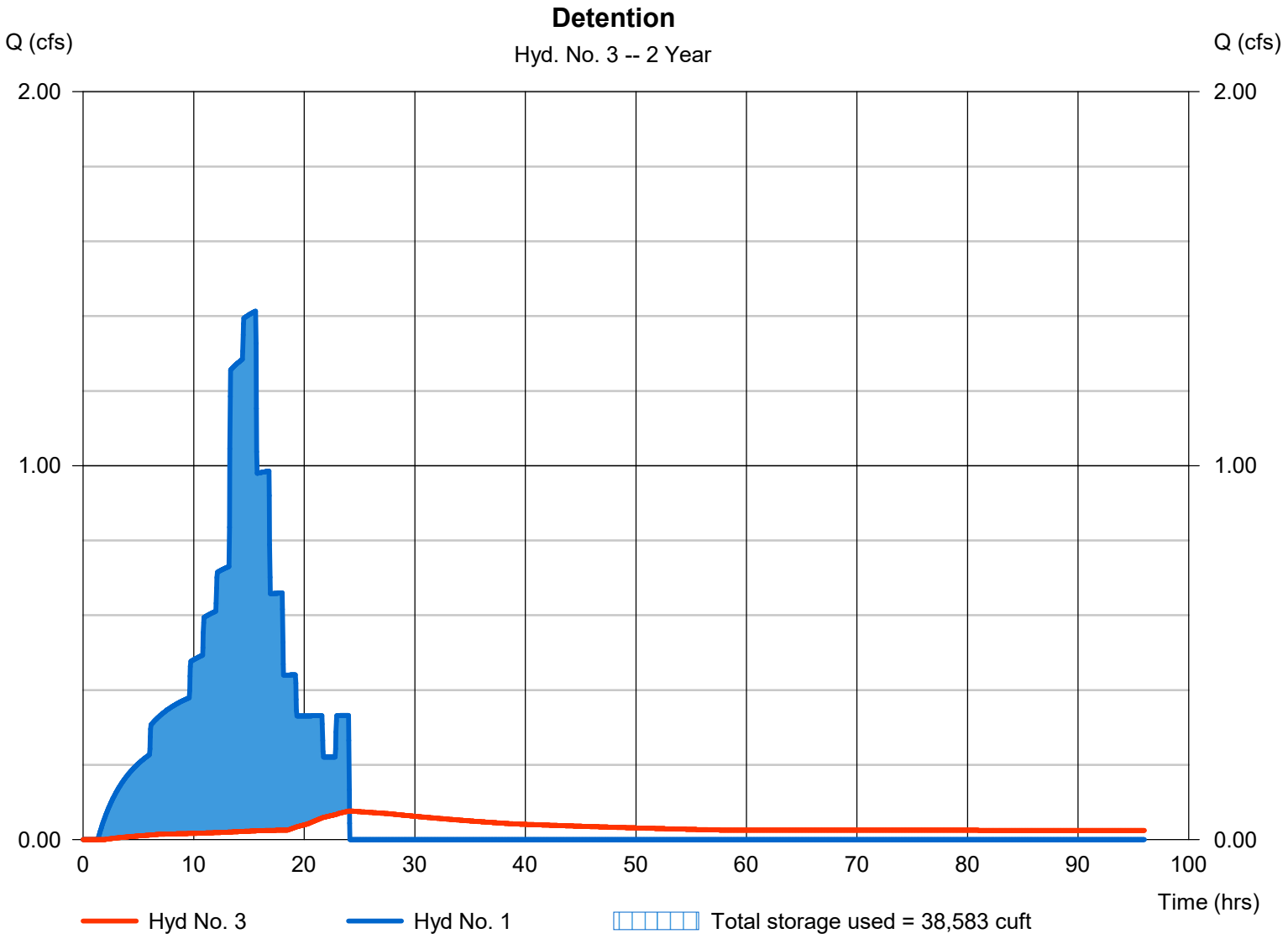
Hydrograph Report

Hyd. No. 3

Detention

Hydrograph type	=	Reservoir	Peak discharge	=	0.077 cfs
Storm frequency	=	2 yrs	Time to peak	=	24.10 hrs
Time interval	=	2 min	Hyd. volume	=	10,878 cuft
Inflow hyd. No.	=	1 - Detained	Max. Elevation	=	599.24 ft
Reservoir name	=	Detention	Max. Storage	=	38,583 cuft

Storage Indication method used.

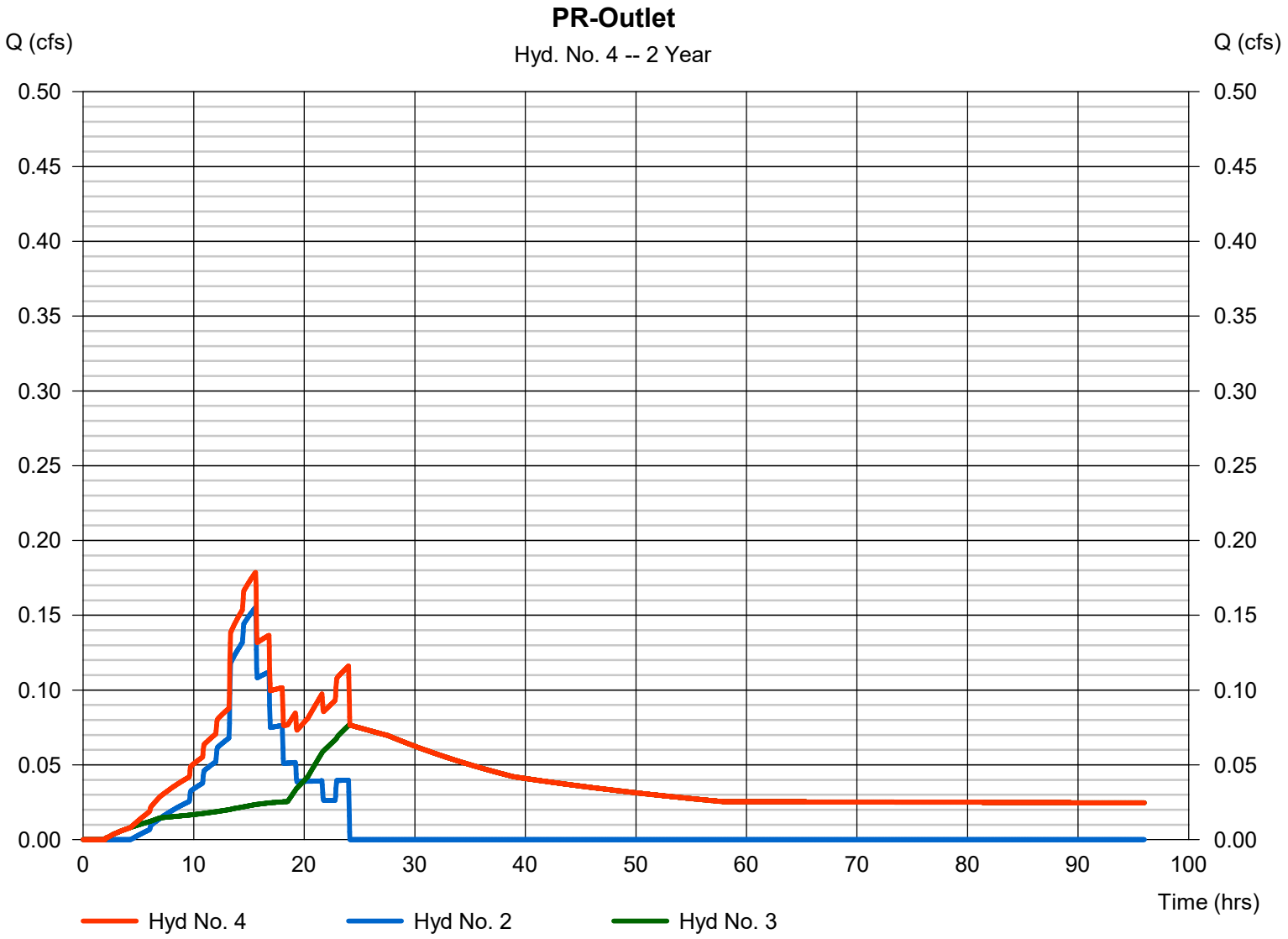


Hydrograph Report

Hyd. No. 4

PR-Outlet

Hydrograph type	=	Combine	Peak discharge	=	0.179 cfs
Storm frequency	=	2 yrs	Time to peak	=	15.60 hrs
Time interval	=	2 min	Hyd. volume	=	14,617 cuft
Inflow hyds.	=	2, 3	Contrib. drain. area	=	0.585 ac



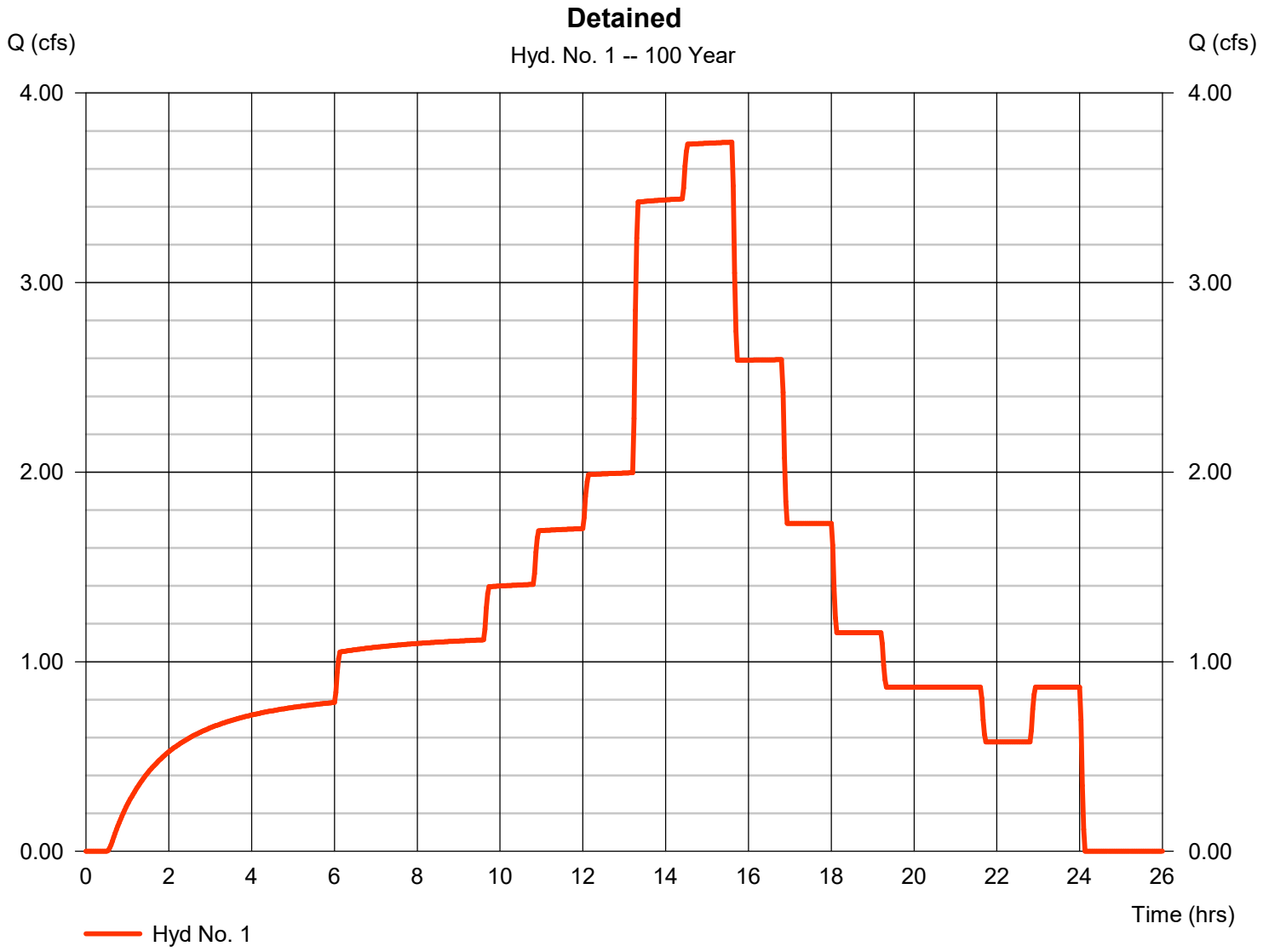
Hydrograph Report

Hyd. No. 1

Detained

Hydrograph type	=	SCS Runoff	Peak discharge	=	3.740 cfs
Storm frequency	=	100 yrs	Time to peak	=	15.60 hrs
Time interval	=	2 min	Hyd. volume	=	116,373 cuft
Drainage area	=	4.291 ac	Curve number	=	95*
Basin Slope	=	0.0 %	Hydraulic length	=	0 ft
Tc method	=	User	Time of conc. (Tc)	=	5.00 min
Total precip.	=	8.57 in	Distribution	=	Huff-3rd
Storm duration	=	24.00 hrs	Shape factor	=	484

* Composite (Area/CN) = [(1.550 x 98) + (0.560 x 80)] / 4.291

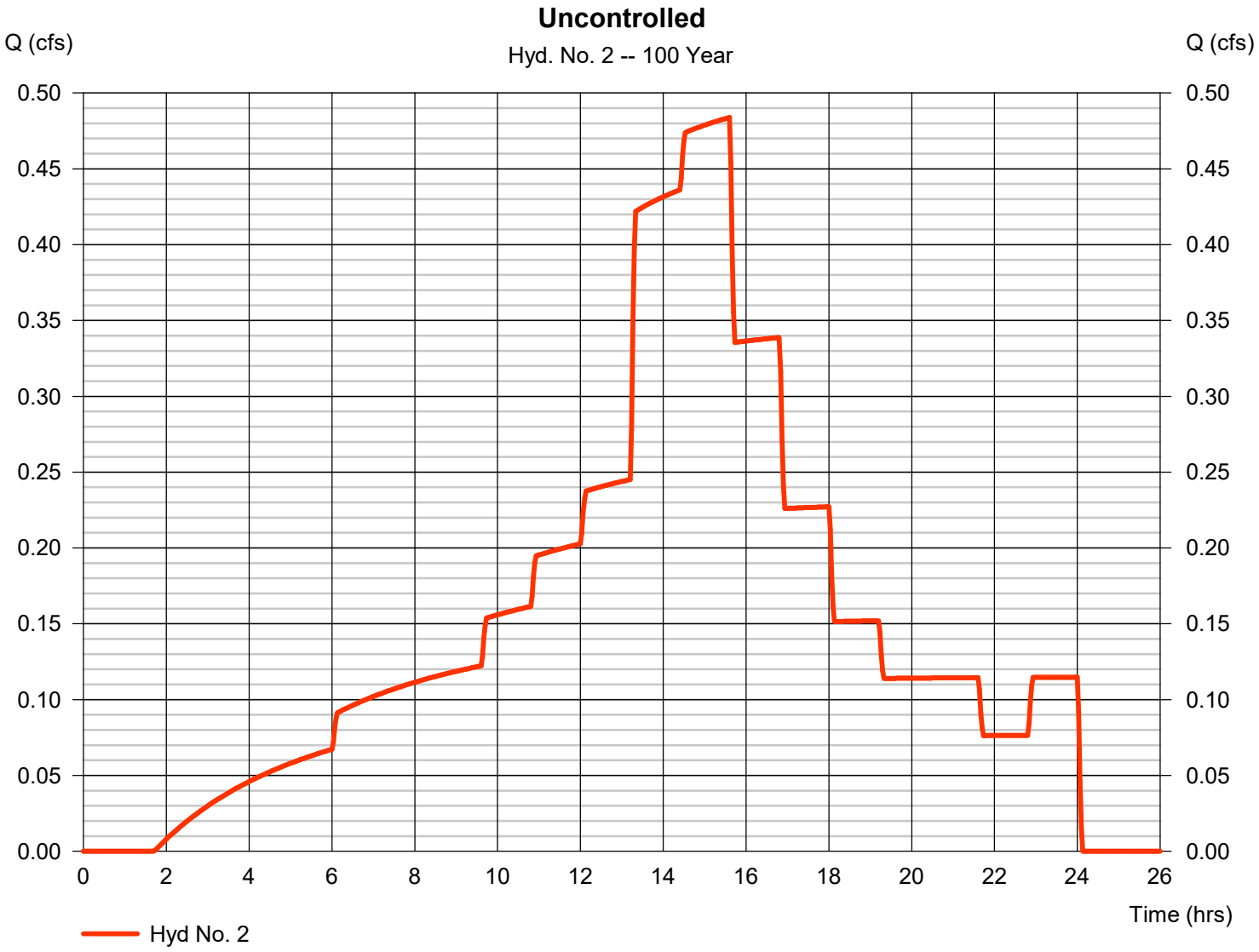


Hydrograph Report

Hyd. No. 2

Uncontrolled

Hydrograph type	= SCS Runoff	Peak discharge	= 0.484 cfs
Storm frequency	= 100 yrs	Time to peak	= 15.60 hrs
Time interval	= 2 min	Hyd. volume	= 13,467 cuft
Drainage area	= 0.585 ac	Curve number	= 85
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 5.00 min
Total precip.	= 8.57 in	Distribution	= Huff-3rd
Storm duration	= 24.00 hrs	Shape factor	= 484



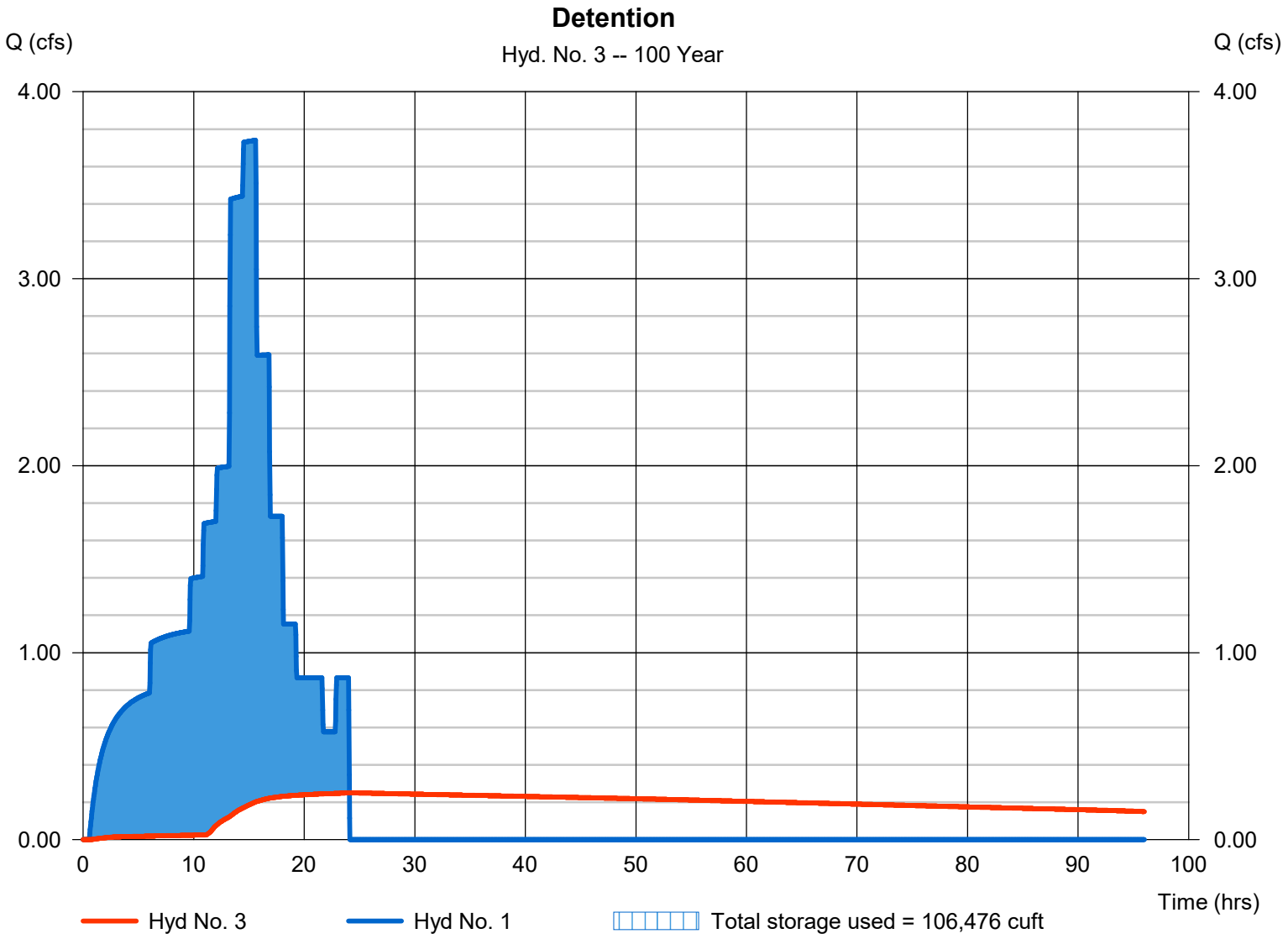
Hydrograph Report

Hyd. No. 3

Detention

Hydrograph type	=	Reservoir	Peak discharge	=	0.251 cfs
Storm frequency	=	100 yrs	Time to peak	=	24.07 hrs
Time interval	=	2 min	Hyd. volume	=	62,483 cuft
Inflow hyd. No.	=	1 - Detained	Max. Elevation	=	601.72 ft
Reservoir name	=	Detention	Max. Storage	=	106,476 cuft

Storage Indication method used.

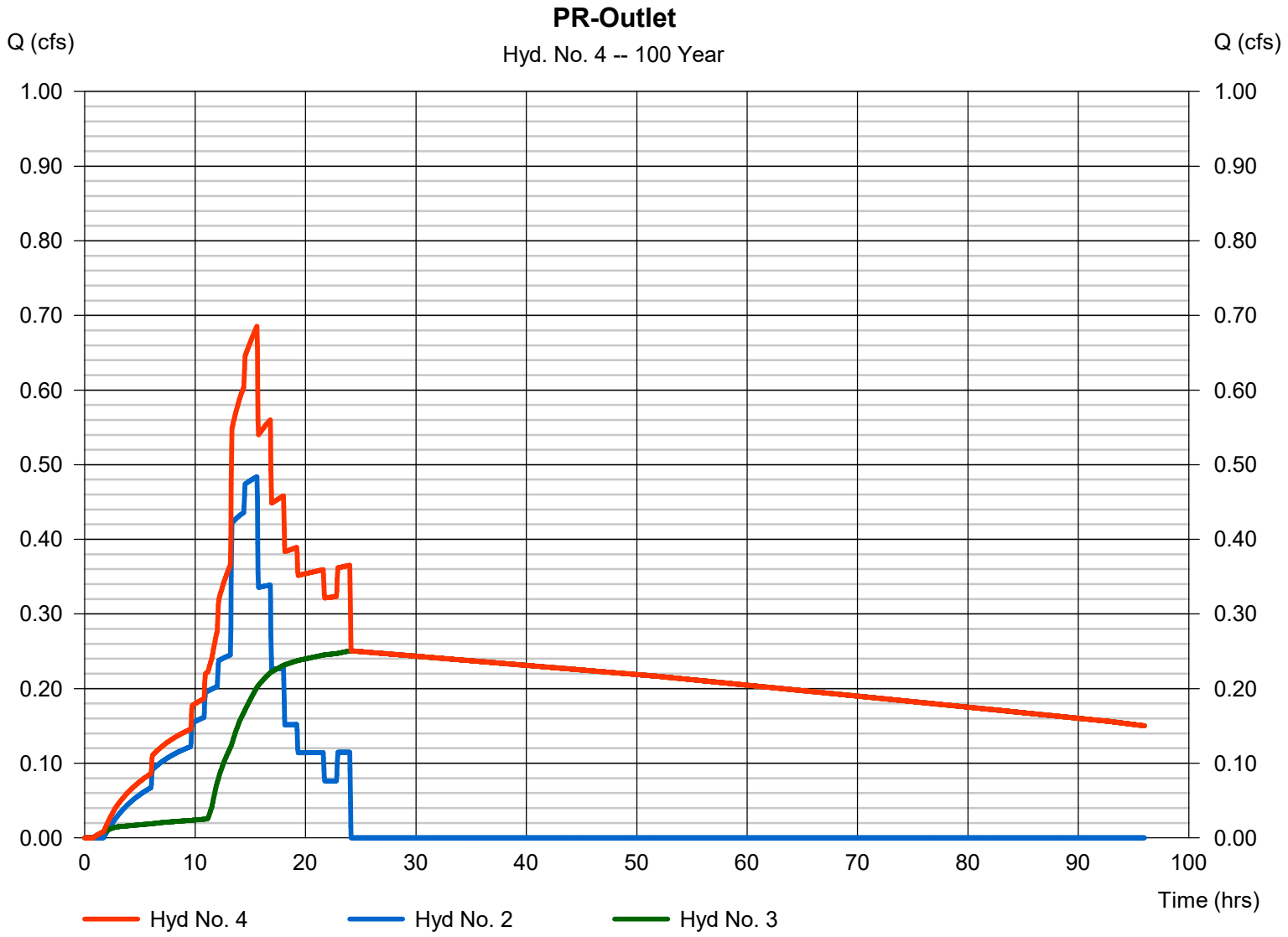


Hydrograph Report

Hyd. No. 4

PR-Outlet

Hydrograph type	= Combine	Peak discharge	= 0.686 cfs
Storm frequency	= 100 yrs	Time to peak	= 15.60 hrs
Time interval	= 2 min	Hyd. volume	= 75,950 cuft
Inflow hyds.	= 2, 3	Contrib. drain. area	= 0.585 ac



Midwest Design Group

QuikTrip Store #4452

- **NRCS Soils Report**
- **NWI Wetland Map**
- **USGS Maps**
- **FEMA Maps**

Hydrologic Soil Group—Will County, Illinois
(QT4452 Spring Hill)

Map Scale: 1:1,700 if printed on A portrait (8.5" x 11") sheet.

N

Meters: 0 25 50 100 150

Feet: 0 50 100 200 300

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 16N WGS84

MAP LEGEND

Area of Interest (AOI)

- Area of Interest (AOI)

Soils

Soil Rating Polygons

- A
- A/D
- B
- B/D
- C
- C/D
- D
- Not rated or not available

Soil Rating Lines

- A
- A/D
- B
- B/D
- C
- C/D
- D
- Not rated or not available

Soil Rating Points

- A
- A/D
- B
- B/D
- C
- C/D
- D
- Not rated or not available

Water Features

- Streams and Canals

Transportation

- Rails
- Interstate Highways
- US Routes
- Major Roads
- Local Roads

Background

- Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:12,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Will County, Illinois
Survey Area Data: Version 19, Aug 21, 2024

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Jul 7, 2020—Oct 13, 2020

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Hydrologic Soil Group

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
149A	Brenton silt loam, 0 to 2 percent slopes	B/D	0.6	10.9%
223C2	Varna silt loam, 4 to 6 percent slopes, eroded	C	1.0	18.1%
223D2	Varna silt loam, 6 to 12 percent slopes, eroded	C	3.6	64.2%
329A	Will silty clay loam, 0 to 2 percent slopes	B/D	0.4	6.8%
Totals for Area of Interest			**5.6**	**100.0%**

Description

Hydrologic soil groups are based on estimates of runoff potential. Soils are assigned to one of four groups according to the rate of water infiltration when the soils are not protected by vegetation, are thoroughly wet, and receive precipitation from long-duration storms.

The soils in the United States are assigned to four groups (A, B, C, and D) and three dual classes (A/D, B/D, and C/D). The groups are defined as follows:

Group A. Soils having a high infiltration rate (low runoff potential) when thoroughly wet. These consist mainly of deep, well drained to excessively drained sands or gravelly sands. These soils have a high rate of water transmission.

Group B. Soils having a moderate infiltration rate when thoroughly wet. These consist chiefly of moderately deep or deep, moderately well drained or well drained soils that have moderately fine texture to moderately coarse texture. These soils have a moderate rate of water transmission.

Group C. Soils having a slow infiltration rate when thoroughly wet. These consist chiefly of soils having a layer that impedes the downward movement of water or soils of moderately fine texture or fine texture. These soils have a slow rate of water transmission.

Group D. Soils having a very slow infiltration rate (high runoff potential) when thoroughly wet. These consist chiefly of clays that have a high shrink-swell potential, soils that have a high water table, soils that have a claypan or clay layer at or near the surface, and soils that are shallow over nearly impervious material. These soils have a very slow rate of water transmission.

If a soil is assigned to a dual hydrologic group (A/D, B/D, or C/D), the first letter is for drained areas and the second is for undrained areas. Only the soils that in their natural condition are in group D are assigned to dual classes.

Rating Options

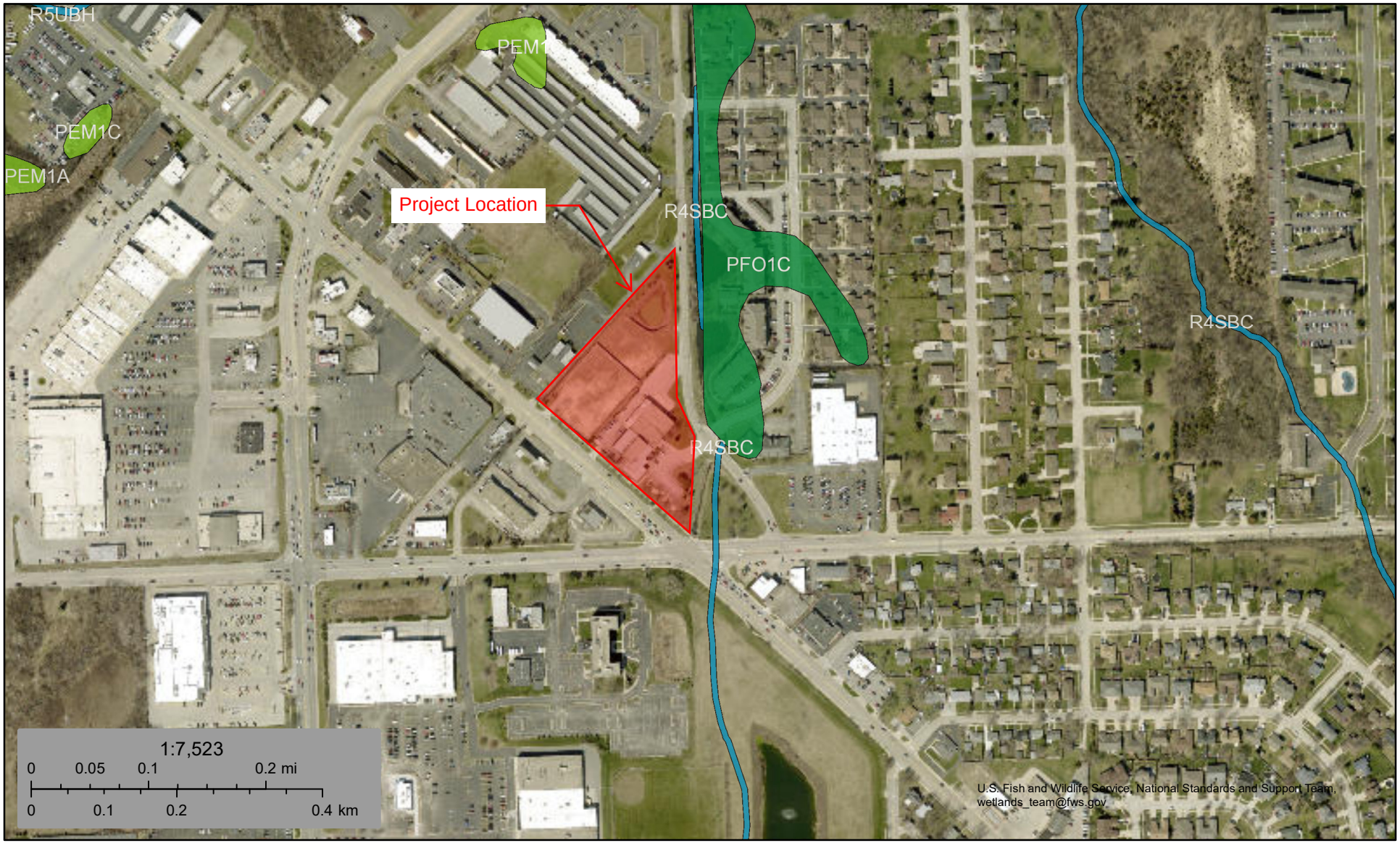
Aggregation Method: Dominant Condition

Component Percent Cutoff: None Specified

Tie-break Rule: Higher

U.S. Fish and Wildlife Service
National Wetlands Inventory

QT4452 Crest Hill



February 25, 2025

Wetlands

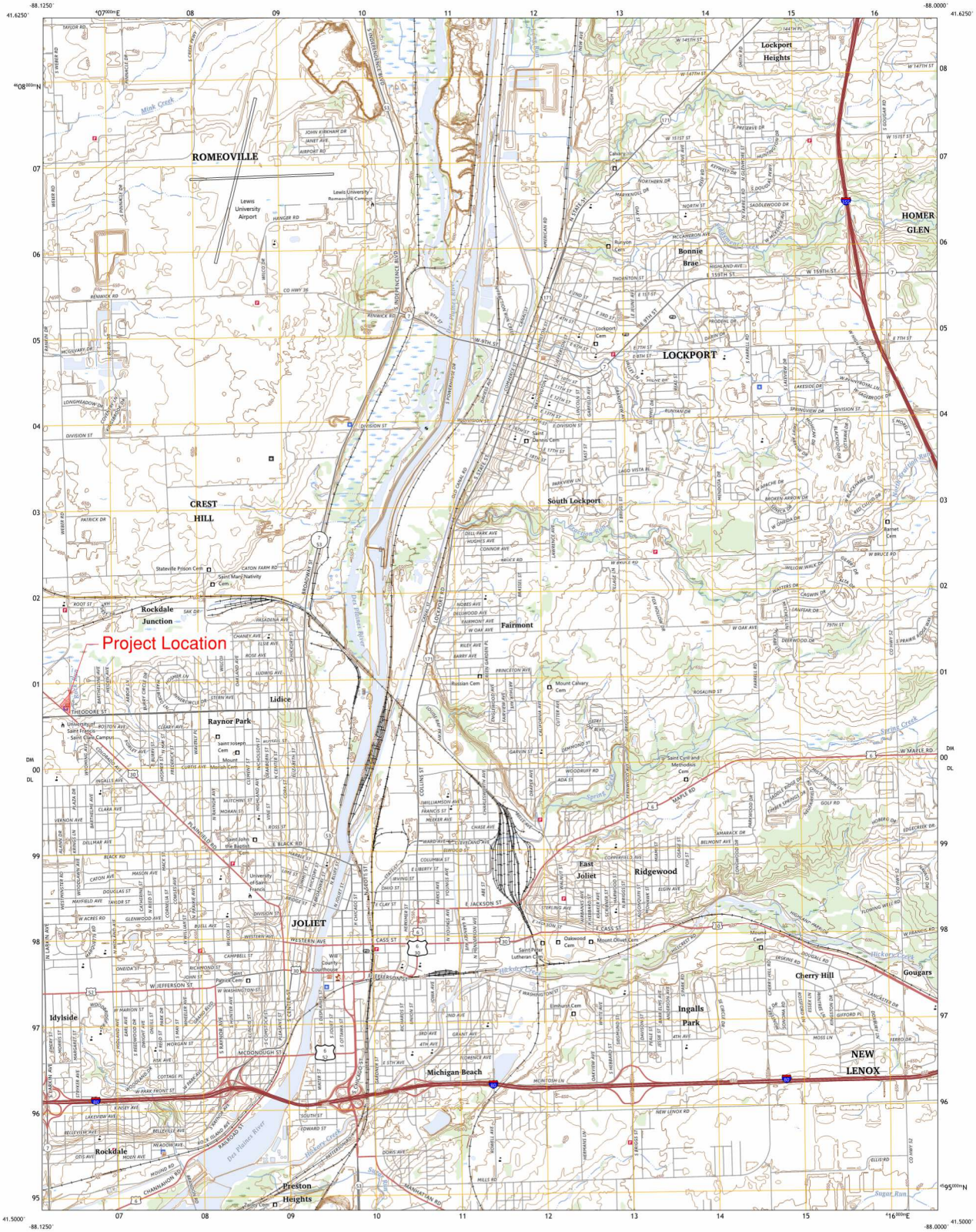
- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Other
- Riverine

USGS science for a changing world

U.S. DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY

The National Map US Topo

JOLIET QUADRANGLE
ILLINOIS - WILL COUNTY
7.5-MINUTE SERIES



Produced by the United States Geological Survey

North American Datum of 1983 (NAD83)
World Geodetic System of 1984 (WGS84). Projection and
1 000-meter grid:Universal Transverse Mercator, Zone 16T
This map is not a legal document. Boundaries may be generalized for this map scale, Private lands within government reservations may not be shown. Obtain permission before entering private lands.

Imagery.....NAIP, August 2019 - August 2019
Roads.....U.S. Census Bureau, 2017
Names.....GNIS, 1980 - 2023
Hydrography.....National Hydrography Dataset, 2002 - 2022
Contours.....National Elevation Dataset, 2016
Boundaries.....Multiple sources; see metadata file 2021 - 2022
Public Land Survey System.....BLM, 2020
Wetlands.....FWS National Wetlands Inventory Not Available

UTM GRID AND 2023 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

SCALE 1:24 000

KILOMETERS 0 0.5 1 2
METERS 1000 500 0 1000 2000
MILES 0 0.5 1
FEET 1000 0 1000 2000 3000 4000 5000 6000 7000 8000 9000 10000

CONTOUR INTERVAL 10 FEET
NORTH AMERICAN VERTICAL DATUM OF 1988

This map was produced to conform with the National Geospatial Program US Topo Product Standard.

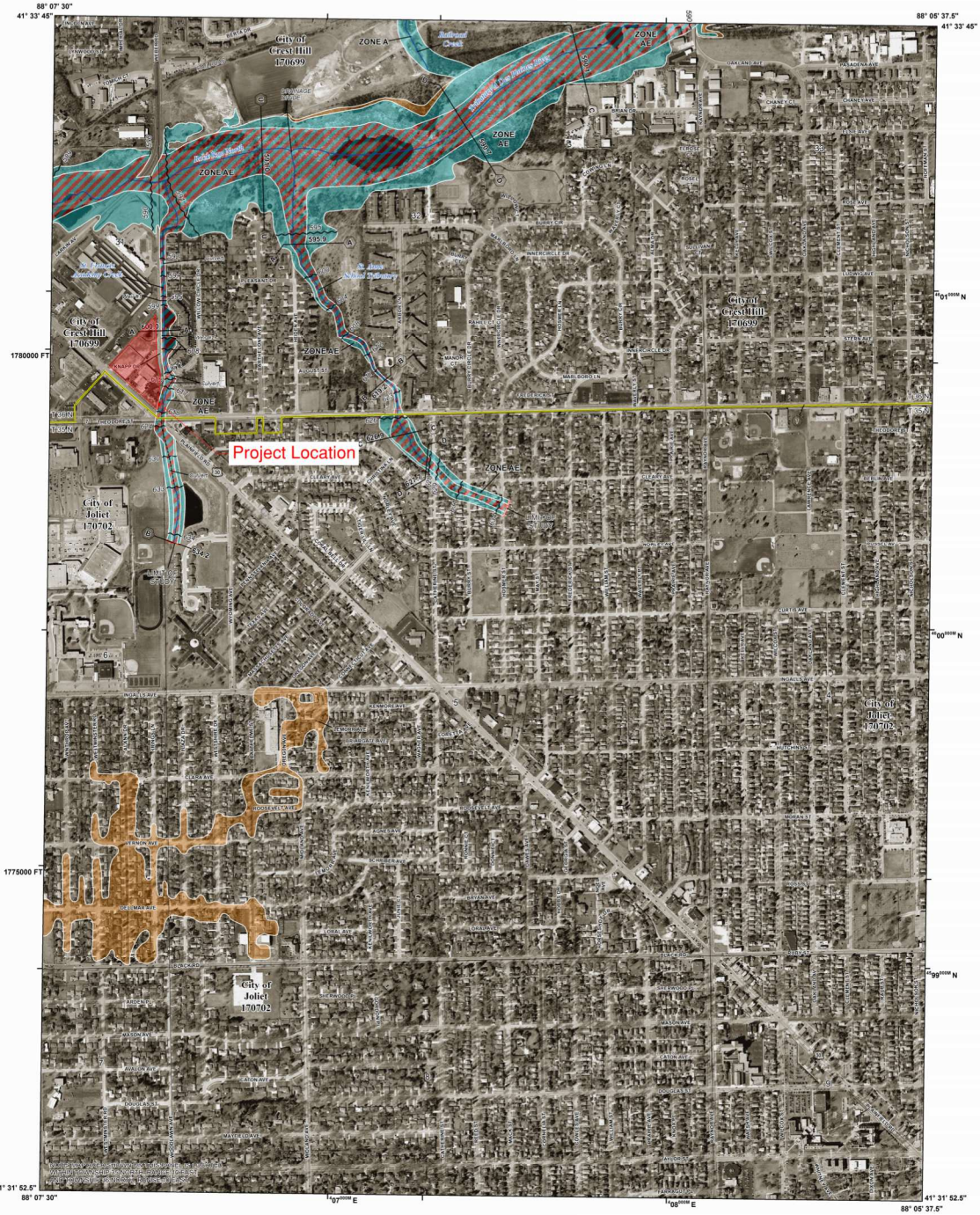
ILLINOIS
QUADRANGLE LOCATION

ADJOINING QUADRANGLES
1 Normantown
2 Romeoville
3 Sag Bridge
4 Plainfield
5 Mokena
6 Channahon
7 Elwood
8 Manhattan

ROAD CLASSIFICATION
Expressway
Secondary Hwy
Ramp
Local Connector
Local Road
4WD
Interstate Route
US Route
State Route

JOLIET, IL
2024

NSN
NGA REF NO. USGS24K22745



FLOOD HAZARD INFORMATION

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

THE INFORMATION DEPICTED ON THIS MAP AND SUPPORTING DOCUMENTATION ARE ALSO AVAILABLE IN DIGITAL FORMAT AT HTTP://MSC.FEMA.GOV

SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) *Zone A, V, A99*
		With BFE or Depth *Zone AE, AO, AH, VE, AR*
		Regulatory Floodway
OTHER AREAS OF FLOOD HAZARD		0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile *Zone X*
		Future Conditions 1% Annual Chance Flood Hazard *Zone X*
		Area with Reduced Flood Risk due to Levee See Notes *Zone X*
		Area with Flood Risk due to Levee *Zone D*
OTHER AREAS	NO SCREEN	Area of Minimal Flood Hazard *Zone X*
		Area of Undetermined Flood Hazard *Zone D*
GENERAL STRUCTURES		Channel, Culvert, or Storm Sewer
		Dam, Jetty, or Weir
		Levee, Dike or Floodwall
	A 718.7 717.5	Cross Sections with 1% Annual Chance Water Surface Elevation (BFE)
	12	Coastal Transect
		Coastal Transect Baseline
		Profile Baseline
		Hydrographic Feature
	512	Base Flood Elevation Line (BFE)
OTHER FEATURES		Limit of Study
		Jurisdiction Boundary

NOTES TO USERS

For information and questions about this Flood Insurance Rate Map (FIRM), available products associated with this FIRM, including historic versions, the current map date for each FIRM panel, how to order products, or the National Flood Insurance Program (NFIP) in general, please call the FEMA Map Information eXchange at 1-877-FEMA-MAP (1-877-336-2627) or visit the FEMA Flood Map Service Center website at http://msc.fema.gov. Available products may include previously issued Letters of Map Change, a Flood Insurance Study Report, and/or digital versions of this map. Many of these products can be ordered or obtained directly from the website.

Communities annexing land on adjacent FIRM panels must obtain a current copy of the adjacent panel as well as the current FIRM Index. These may be ordered directly from the Flood Map Service Center at the number listed above.

For community and countywide map dates refer to the Flood Insurance Study report for this jurisdiction.

To determine if flood insurance is available in this community, contact your insurance agent or call the National Flood Insurance Program at 1-800-638-6620.

Base map information shown on this FIRM was provided in digital format by Will County, Illinois. This information was derived from digital orthoimagery at a spatial resolution of 4 inches where available and 9 inches otherwise, from aerial photography dated 2013.

ILLINOIS
Illinois State Water Survey
PRAIRIE RESEARCH INSTITUTE

SCALE

N

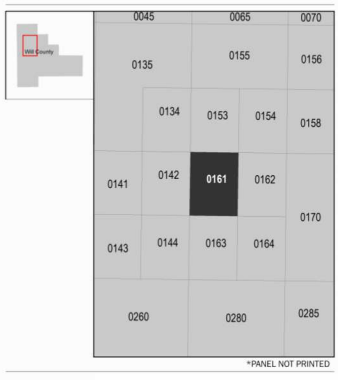
Map Projection:
Universal Transverse Mercator Zone 16N; North American Datum 1983;
Western Hemisphere; Vertical Datum: NAVD88

1 inch = 500 feet 1:6,000

0 500 1,000 2,000 feet

0 125 250 500 meters

PANEL LOCATOR



*PANEL NOT PRINTED

FEMA
National Flood Insurance Program

NATIONAL FLOOD INSURANCE PROGRAM
FLOOD INSURANCE RATE MAP

WILL COUNTY, ILLINOIS
and Incorporated Areas

PANEL 161 OF 585

FEMA

Panel Contains:

COMMUNITY	NUMBER	PANEL	SUFFIX
CREST HILL, CITY OF	170699	0161	G
JOLIET, CITY OF	170702	0161	G

VERSION NUMBER
2.3.3.3

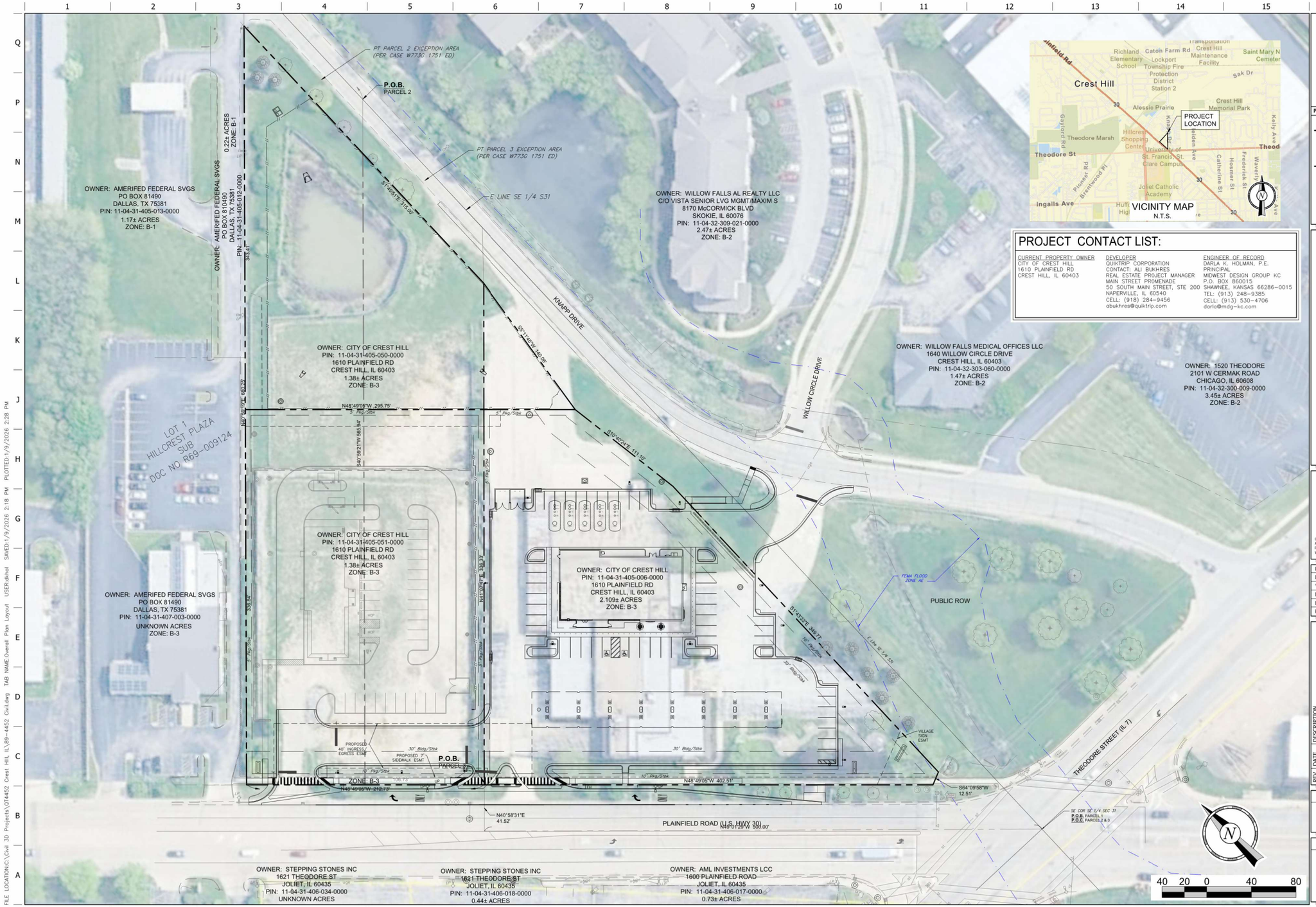
MAP NUMBER
17197C0161G

MAP REVISED
FEBRUARY 15, 2019

Midwest Design Group

QuikTrip Store #4452

Plan Sheets



PROJECT CONTACT LIST:

CURRENT PROPERTY OWNER	DEVELOPER	ENGINEER OF RECORD
CITY OF CREST HILL 1610 PLAINFIELD RD CREST HILL, IL 60403	QUIKTRIP CORPORATION CONTACT: ALI BUKHRES REAL ESTATE PROJECT MANAGER MAIN STREET PROMENADE 50 SOUTH MAIN STREET, STE 200 NAPERVILLE, IL 60540 CELL: (918) 284-9456 abukhres@quiktrip.com	DARLA K. HOLMAN, P.E. PRINCIPAL MIDWEST DESIGN GROUP KC P.O. BOX 860015 SHAWNEE, KANSAS 66286-0015 TEL: (913) 248-9385 CELL: (913) 530-4706 darla@mdg-kc.com

DARLA K. HOLMAN
062-072191
ILLINOIS
1/9/26

PROJECT NO.:84-4452

Midwest Design Group
Kansas City
PO Box 860015
Shawnee, KS 66286-0015
P 913.248.9385

QuikTrip No. 4452

1610 PLAINFIELD ROAD
CREST HILL, WILL COUNTY, ILLINOIS 60403

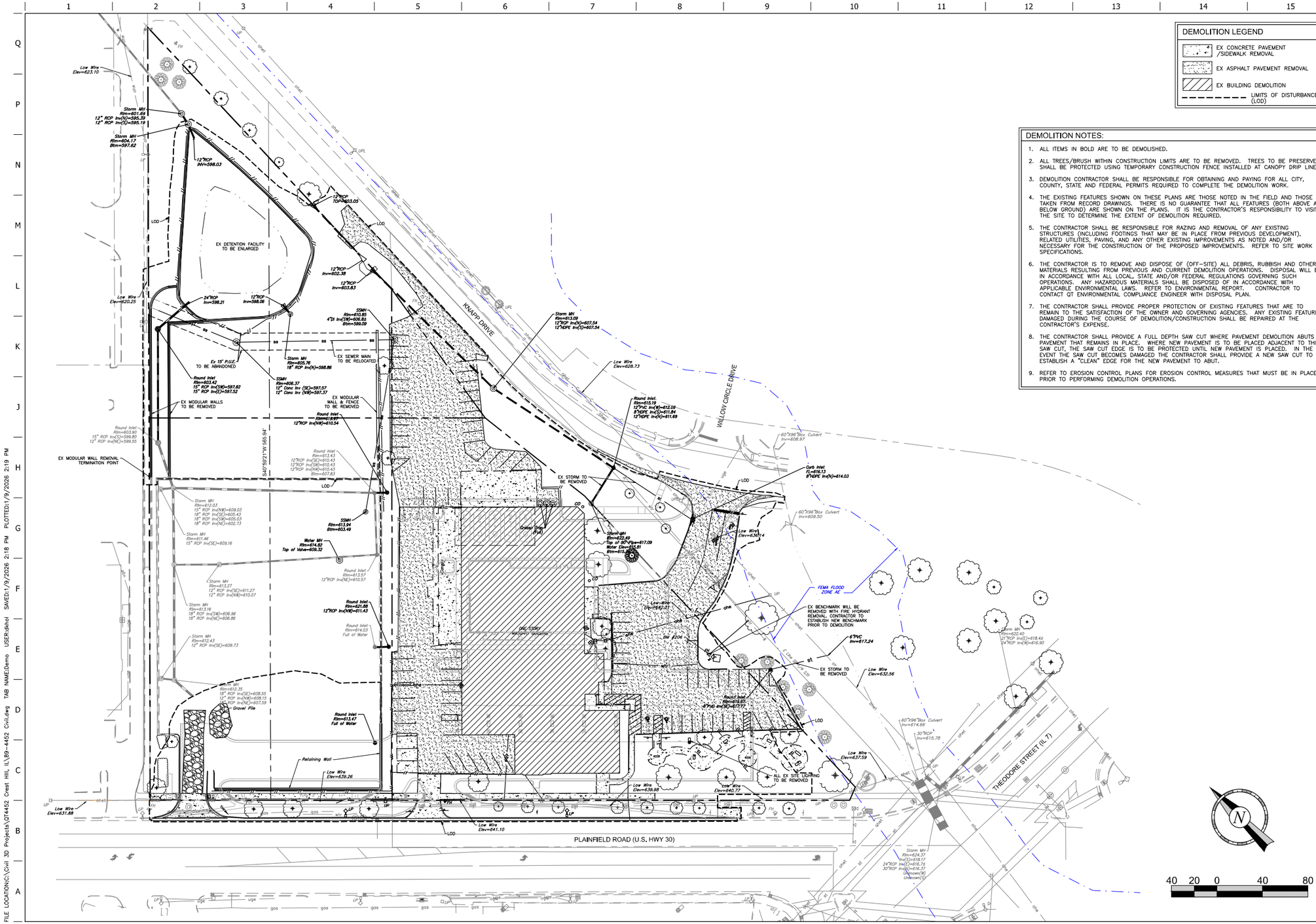
PROTOTYPE:	P-122
DIVISION:	84
VERSION:	001
DESIGNED BY:	DKH
DRAWN BY:	CSH
REVIEWED BY:	CJC

REV	DATE	DESCRIPTION
		ORIGINAL ISSUE DATE: 01/09/2026

SHEET TITLE:
OVERALL DEVELOPMENT PLAN

SHEET NUMBER:
C010

FILE LOCATION:C:\Civil 3D Projects\QT4452 Crest Hill, IL\89-4452 Civil.dwg TAB NAME:Overall Plan Layout USER:dkholi SAVED:1/9/2026 2:18 PM PLOTTED:1/9/2026 2:28 PM



DEMOLITION LEGEND

- EX CONCRETE PAVEMENT /SIDEWALK REMOVAL
- EX ASPHALT PAVEMENT REMOVAL
- EX BUILDING DEMOLITION
- LIMITS OF DISTURBANCE (LOD)

DEMOLITION NOTES:

1. ALL ITEMS IN BOLD ARE TO BE DEMOLISHED.
2. ALL TREES/BRUSH WITHIN CONSTRUCTION LIMITS ARE TO BE REMOVED. TREES TO BE PRESERVED SHALL BE PROTECTED USING TEMPORARY CONSTRUCTION FENCE INSTALLED AT CANOPY DRIP LINE.
3. DEMOLITION CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AND PAYING FOR ALL CITY, COUNTY, STATE AND FEDERAL PERMITS REQUIRED TO COMPLETE THE DEMOLITION WORK.
4. THE EXISTING FEATURES SHOWN ON THESE PLANS ARE THOSE NOTED IN THE FIELD AND THOSE TAKEN FROM RECORD DRAWINGS. THERE IS NO GUARANTEE THAT ALL FEATURES (BOTH ABOVE AND BELOW GROUND) ARE SHOWN ON THE PLANS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VISIT THE SITE TO DETERMINE THE EXTENT OF DEMOLITION REQUIRED.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RAZING AND REMOVAL OF ANY EXISTING STRUCTURES (INCLUDING FOOTINGS THAT MAY BE IN PLACE FROM PREVIOUS DEVELOPMENT), RELATED UTILITIES, PAVING, AND ANY OTHER EXISTING IMPROVEMENTS AS NOTED AND/OR NECESSARY FOR THE CONSTRUCTION OF THE PROPOSED IMPROVEMENTS. REFER TO SITE WORK SPECIFICATIONS.
6. THE CONTRACTOR IS TO REMOVE AND DISPOSE OF (OFF-SITE) ALL DEBRIS, RUBBISH AND OTHER MATERIALS RESULTING FROM PREVIOUS AND CURRENT DEMOLITION OPERATIONS. DISPOSAL WILL BE IN ACCORDANCE WITH ALL LOCAL, STATE AND/OR FEDERAL REGULATIONS GOVERNING SUCH OPERATIONS. ANY HAZARDOUS MATERIALS SHALL BE DISPOSED OF IN ACCORDANCE WITH APPLICABLE ENVIRONMENTAL LAWS. REFER TO ENVIRONMENTAL REPORT. CONTRACTOR TO CONTACT QT ENVIRONMENTAL COMPLIANCE ENGINEER WITH DISPOSAL PLAN.
7. THE CONTRACTOR SHALL PROVIDE PROPER PROTECTION OF EXISTING FEATURES THAT ARE TO REMAIN TO THE SATISFACTION OF THE OWNER AND GOVERNING AGENCIES. ANY EXISTING FEATURES DAMAGED DURING THE COURSE OF DEMOLITION/CONSTRUCTION SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
8. THE CONTRACTOR SHALL PROVIDE A FULL DEPTH SAW CUT WHERE PAVEMENT DEMOLITION ABUTS PAVEMENT THAT REMAINS IN PLACE. WHERE NEW PAVEMENT IS TO BE PLACED ADJACENT TO THIS SAW CUT, THE SAW CUT EDGE IS TO BE PROTECTED UNTIL NEW PAVEMENT IS PLACED. IN THE EVENT THE SAW CUT BECOMES DAMAGED THE CONTRACTOR SHALL PROVIDE A NEW SAW CUT TO ESTABLISH A "CLEAN" EDGE FOR THE NEW PAVEMENT TO ABUT.
9. REFER TO EROSION CONTROL PLANS FOR EROSION CONTROL MEASURES THAT MUST BE IN PLACE PRIOR TO PERFORMING DEMOLITION OPERATIONS.

DARLA K. HOLMAN
062-072191
ILLINOIS
1/9/26

PROJECT NO.: 84-4452

MDG
Midwest Design Group
Kansas City
PO Box 860015
Shawnee, KS 66286-0015
P 913.248.9385

QuikTrip No. 4452

1610 PLAINFIELD ROAD
CREST HILL, WILL COUNTY, ILLINOIS 60403

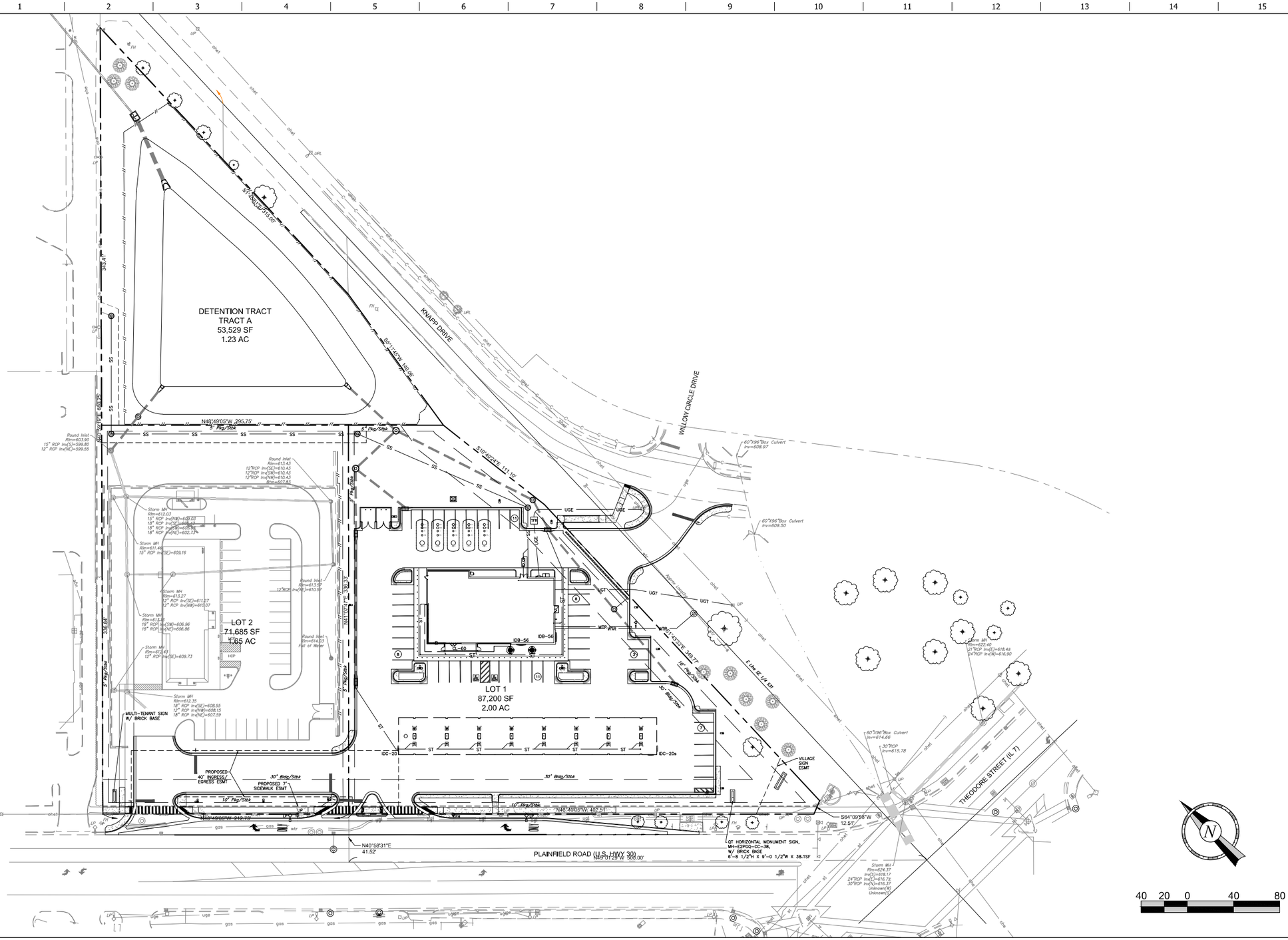
PROTOTYPE:	P-122
DIVISION:	84
VERSION:	001
DESIGNED BY:	DKH
DRAWN BY:	CSH
REVIEWED BY:	CJC

REV	DATE	DESCRIPTION
		ORIGINAL ISSUE DATE: 01/09/2026

SHEET TITLE:
DEMOLITION PLAN

SHEET NUMBER:
C030

FILE LOCATION:C:\Civil 3D Projects\QT4452 Crest Hill, IL\84-4452 Civil.dwg TAB NAME:Demo USER:dkhol SAVED:1/9/2026 2:18 PM PLOTTED:1/9/2026 2:19 PM



FILE LOCATION:C:\Civil 3D Projects\QT4452 Crest Hill, IL\84-4452 Civil.dwg TAB NAME:Overall Site USER:dkhol SAVED:1/9/2026 2:18 PM PLOTTED:1/9/2026 2:19 PM

DARLA K. HOLMAN
062-072191
ILLINOIS
LICENSED PROFESSIONAL ENGINEER
1/9/26

PROJECT NO.: 84-4452

Midwest Design Group
Kansas City
PO Box 860015
Shawnee, KS 66286-0015
P 913.248.9385

QuikTrip No. 4452

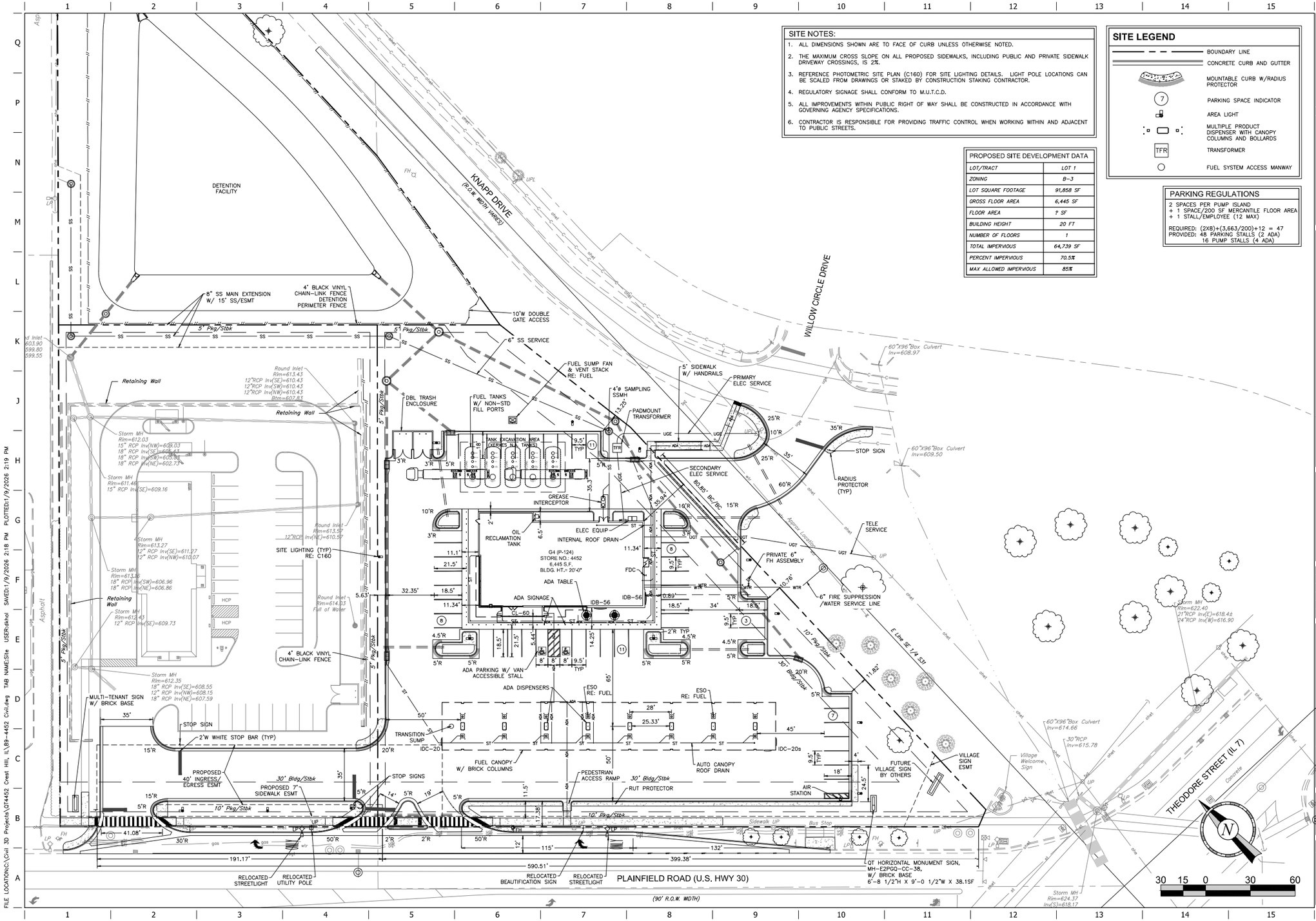
1610 PLAINFIELD ROAD
CREST HILL, WILL COUNTY, ILLINOIS 60403

PROTOTYPE:	P-122
DIVISION:	84
VERSION:	001
DESIGNED BY:	DKH
DRAWN BY:	CSH
REVIEWED BY:	CJC

REV	DATE	DESCRIPTION
		ORIGINAL ISSUE DATE: 01/09/2026

SHEET TITLE:
OVERALL SITE PLAN

SHEET NUMBER:
C100



SITE NOTES:

1. ALL DIMENSIONS SHOWN ARE TO FACE OF CURB UNLESS OTHERWISE NOTED.
2. THE MAXIMUM CROSS SLOPE ON ALL PROPOSED SIDEWALKS, INCLUDING PUBLIC AND PRIVATE SIDEWALK DRIVEWAY CROSSINGS, IS 2%.
3. REFERENCE PHOTOMETRIC SITE PLAN (C160) FOR SITE LIGHTING DETAILS. LIGHT POLE LOCATIONS CAN BE SCALED FROM DRAWINGS OR STAKED BY CONSTRUCTION STAKING CONTRACTOR.
4. REGULATORY SIGNAGE SHALL CONFORM TO M.U.T.C.D.
5. ALL IMPROVEMENTS WITHIN PUBLIC RIGHT OF WAY SHALL BE CONSTRUCTED IN ACCORDANCE WITH GOVERNING AGENCY SPECIFICATIONS.
6. CONTRACTOR IS RESPONSIBLE FOR PROVIDING TRAFFIC CONTROL WHEN WORKING WITHIN AND ADJACENT TO PUBLIC STREETS.

SITE LEGEND

- BOUNDARY LINE
- CONCRETE CURB AND GUTTER
- MOUNTABLE CURB W/RADIUS PROTECTOR
- (7) PARKING SPACE INDICATOR
- AREA LIGHT
- MULTIPLE PRODUCT DISPENSER WITH CANOPY COLUMNS AND BOLLARDS
- TFR TRANSFORMER
- FUEL SYSTEM ACCESS MANWAY

PROPOSED SITE DEVELOPMENT DATA

LOT/TRACT	LOT 1
ZONING	B-3
LOT SQUARE FOOTAGE	91,858 SF
GROSS FLOOR AREA	6,445 SF
FLOOR AREA	? SF
BUILDING HEIGHT	20 FT
NUMBER OF FLOORS	1
TOTAL IMPERVIOUS	64,739 SF
PERCENT IMPERVIOUS	70.5%
MAX ALLOWED IMPERVIOUS	85%

PARKING REGULATIONS

2 SPACES PER PUMP ISLAND
+ 1 SPACE/200 SF MERCANTILE FLOOR AREA
+ 1 STALL/EMPLOYEE (12 MAX)

REQUIRED: (2X8)+(3,663/200)+12 = 47
PROVIDED: 48 PARKING STALLS (2 ADA)
16 PUMP STALLS (4 ADA)

DARLA K. HOLMAN
062-072191
REGISTERED PROFESSIONAL ENGINEER
STATE OF ILLINOIS
1/9/26

PROJECT NO.: 84-4452

MDG
Midwest Design Group
Kansas City
PO Box 860015
Shawnee, KS 66286-0015
P 913.248.9385

QuikTrip No. 4452

1610 PLAINFIELD ROAD
CREST HILL, WILL COUNTY, ILLINOIS 60403

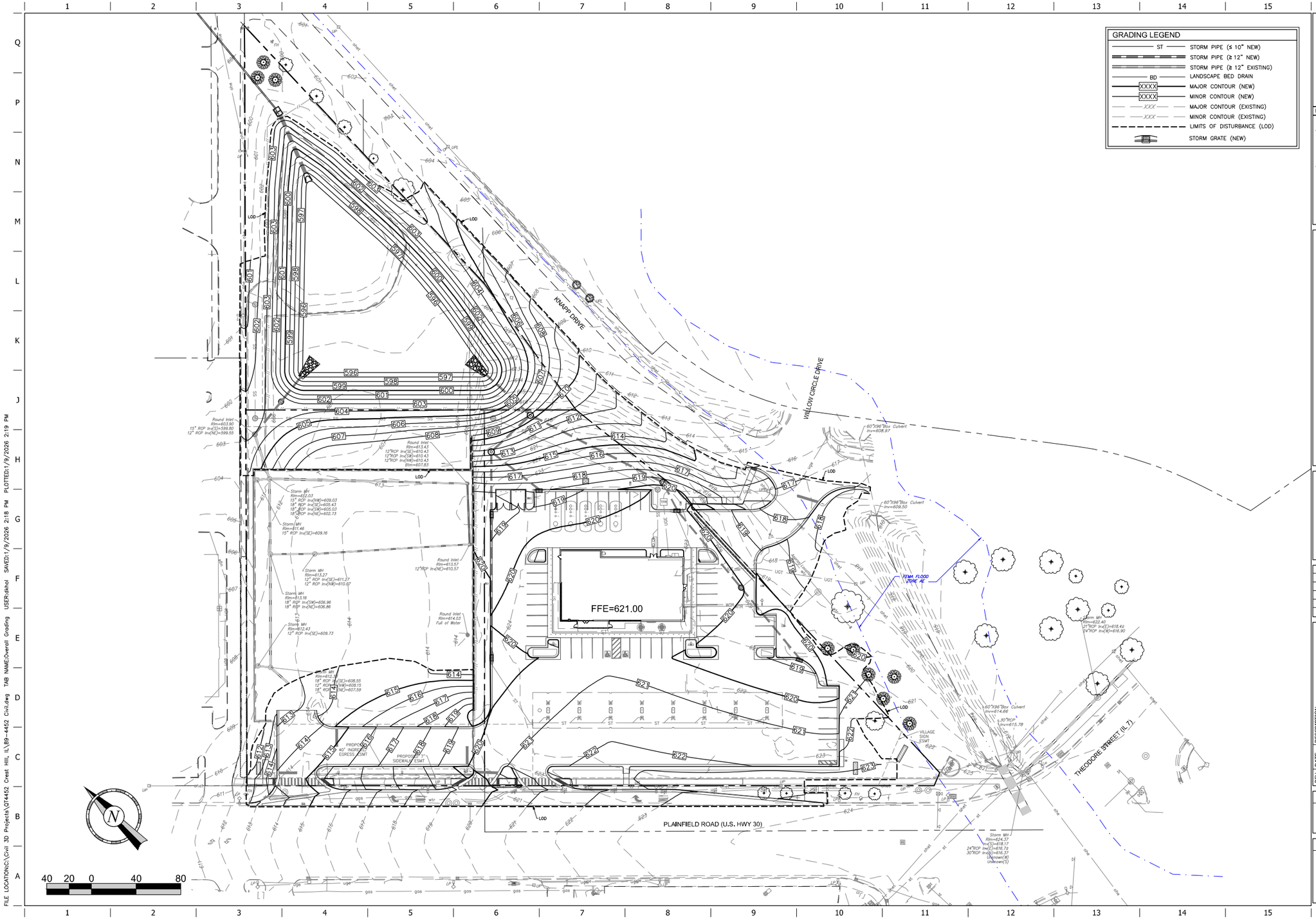
PROTOTYPE:	P-122
DIVISION:	84
VERSION:	001
DESIGNED BY:	DKH
DRAWN BY:	CSH
REVIEWED BY:	CJC

REV	DATE	DESCRIPTION
		ORIGINAL ISSUE DATE: 01/09/2026

SHEET TITLE:
SITE PLAN

SHEET NUMBER:
C101

FILE LOCATION:C:\Civil 3D Projects\QT4452 Crest Hill, IL\84-4452 Civil.dwg TAB NAME:Site USER:dkholman SAVED:1/9/2026 2:18 PM PLOTTED:1/9/2026 2:19 PM



DARLA K. HOLMAN
062-072191
REGISTERED PROFESSIONAL ENGINEER
STATE OF ILLINOIS
1/9/26

PROJECT NO.: 84-4452

Midwest Design Group
Kansas City
PO Box 860015
Shawnee, KS 66286-0015
P 913.248.9385

QuikTrip No. 4452

1610 PLAINFIELD ROAD
CREST HILL, WILL COUNTY, ILLINOIS 60403

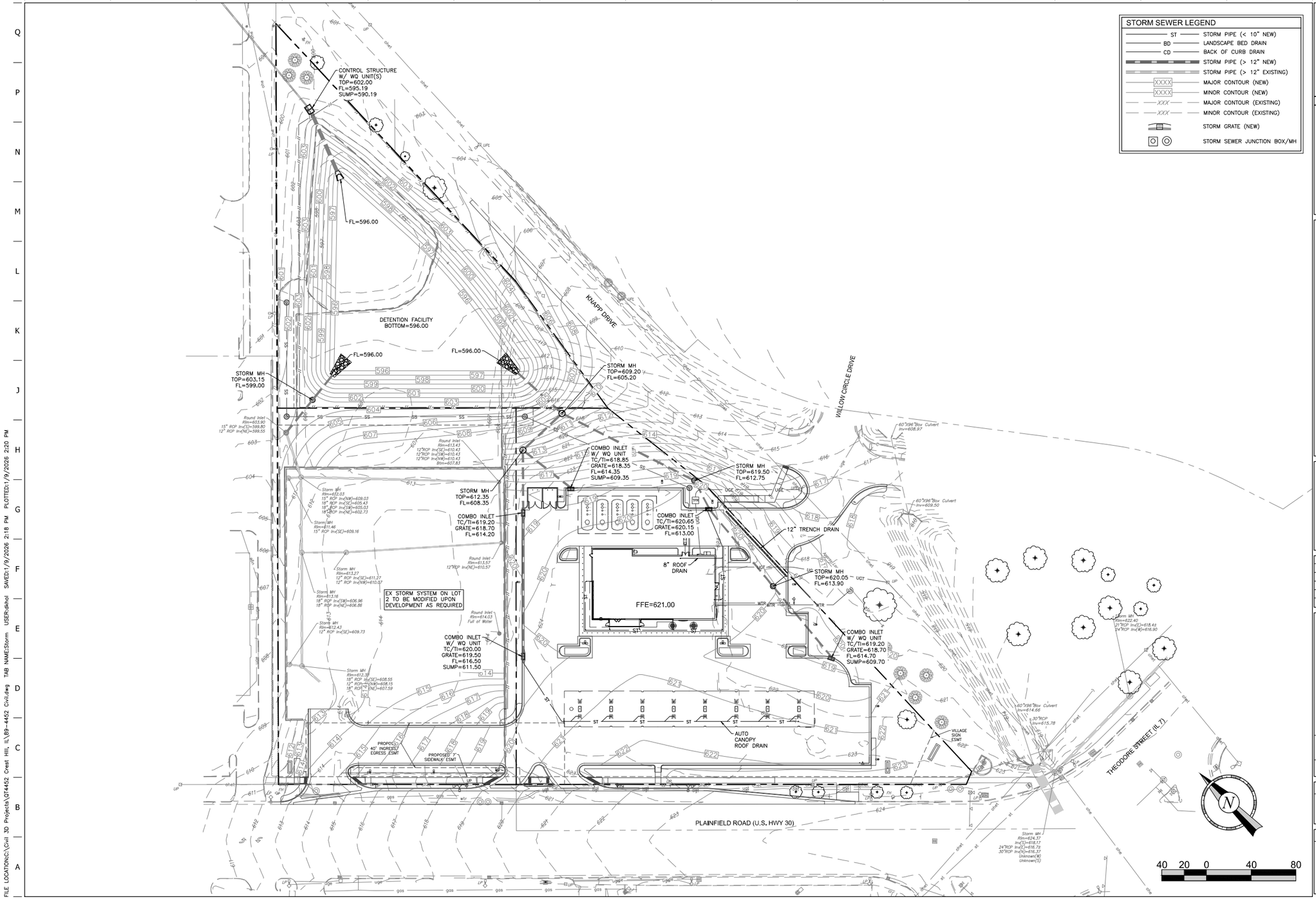
PROTOTYPE:	P-122
DIVISION:	84
VERSION:	001
DESIGNED BY:	DKH
DRAWN BY:	CSH
REVIEWED BY:	CJC

REV	DATE	DESCRIPTION
		ORIGINAL ISSUE DATE: 01/09/2026

SHEET TITLE:
OVERALL GRADING PLAN

SHEET NUMBER:
C110

FILE LOCATION:C:\Civil 3D Projects\QT4452 Crest Hill, IL\89-4452 Civil.dwg TAB NAME:Overall Grading USER:dkholl SAVED:1/9/2026 2:18 PM PLOTTED:1/9/2026 2:19 PM



STORM SEWER LEGEND

ST	STORM PIPE (< 10" NEW)
BD	LANDSCAPE BED DRAIN
CD	BACK OF CURB DRAIN
	STORM PIPE (> 12" NEW)
	STORM PIPE (> 12" EXISTING)
XXXX	MAJOR CONTOUR (NEW)
XXXX	MINOR CONTOUR (NEW)
XXX	MAJOR CONTOUR (EXISTING)
XXX	MINOR CONTOUR (EXISTING)
	STORM GRATE (NEW)
	STORM SEWER JUNCTION BOX/MH

DARLA K. HOLMAN
062-072191
ILLINOIS
1/9/26

PROJECT NO.: 84-4452

MDG
Midwest Design Group
Kansas City
PO Box 860015
Shawnee, KS 66286-0015
P 913.248.9385

QuikTrip No. 4452

1610 PLAINFIELD ROAD
CREST HILL, WILL COUNTY, ILLINOIS 60403

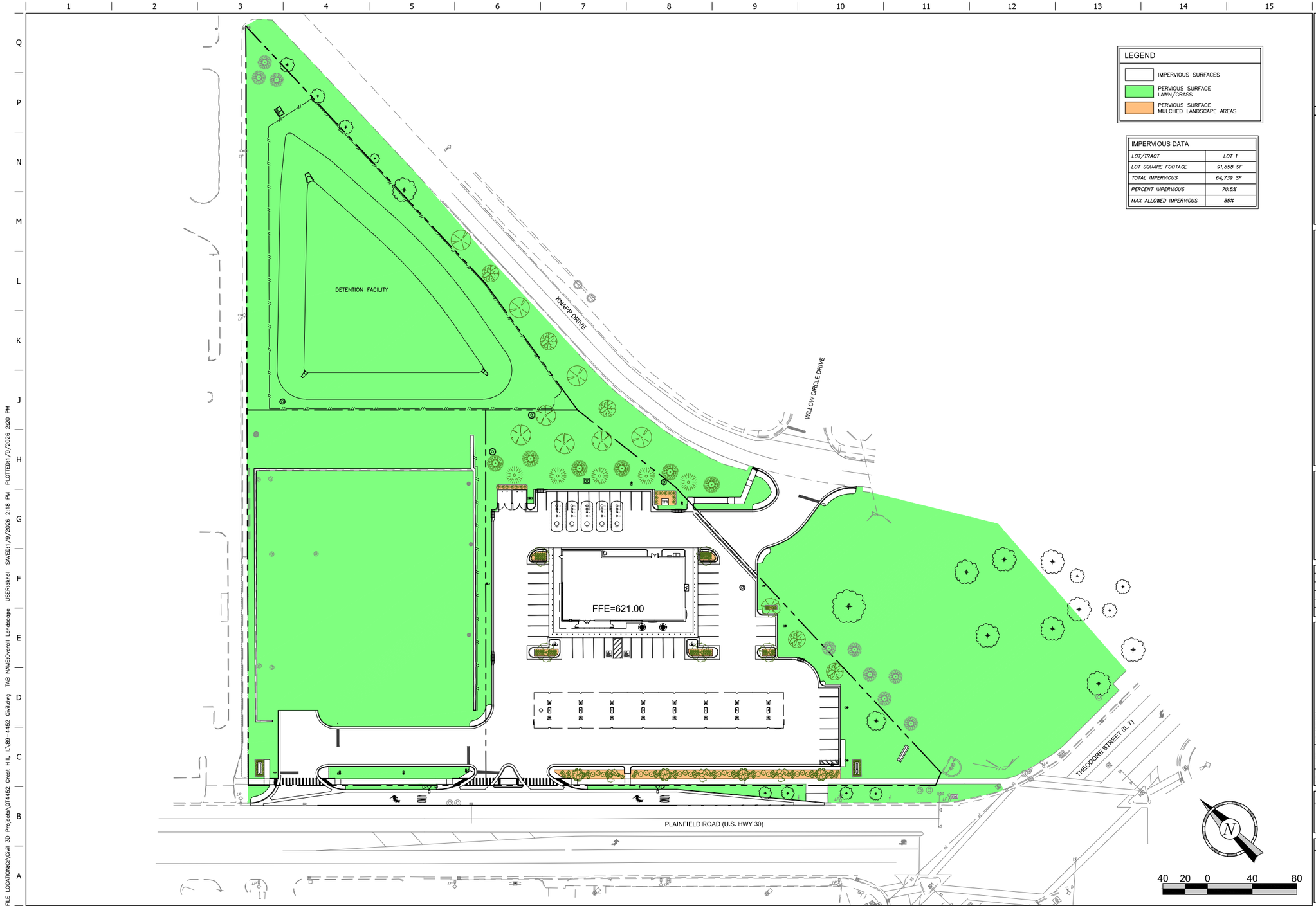
PROTOTYPE:	P-122
DIVISION:	84
VERSION:	001
DESIGNED BY:	DKH
DRAWN BY:	CSH
REVIEWED BY:	CJC

REV	DATE	DESCRIPTION
		ORIGINAL ISSUE DATE: 01/09/2026

SHEET TITLE:
STORM SEWER PLAN

SHEET NUMBER:
C120

FILE LOCATION:C:\Civil 3D Projects\QT4452 Crest Hill, IL\84-4452 Civil.dwg TAB NAME:Storm USER:rdahol SAVED:1/9/2026 2:18 PM PLOTTED:1/9/2026 2:20 PM



LEGEND

- IMPERVIOUS SURFACES
- PERVIOUS SURFACE LAWN/GRASS
- PERVIOUS SURFACE MULCHED LANDSCAPE AREAS

IMPERVIOUS DATA	
LOT/TRACT	LOT 1
LOT SQUARE FOOTAGE	91,858 SF
TOTAL IMPERVIOUS	64,739 SF
PERCENT IMPERVIOUS	70.5%
MAX ALLOWED IMPERVIOUS	85%

DARLA K. HOLMAN
062-072191
ILLINOIS
1/9/26

PROJECT NO.: 84-4452

MDG
Midwest Design Group
Kansas City
PO Box 860015
Shawnee, KS 66286-0015
P 913.248.9385

QuikTrip No. 4452

1610 PLAINFIELD ROAD
CREST HILL, WILL COUNTY, ILLINOIS 60403

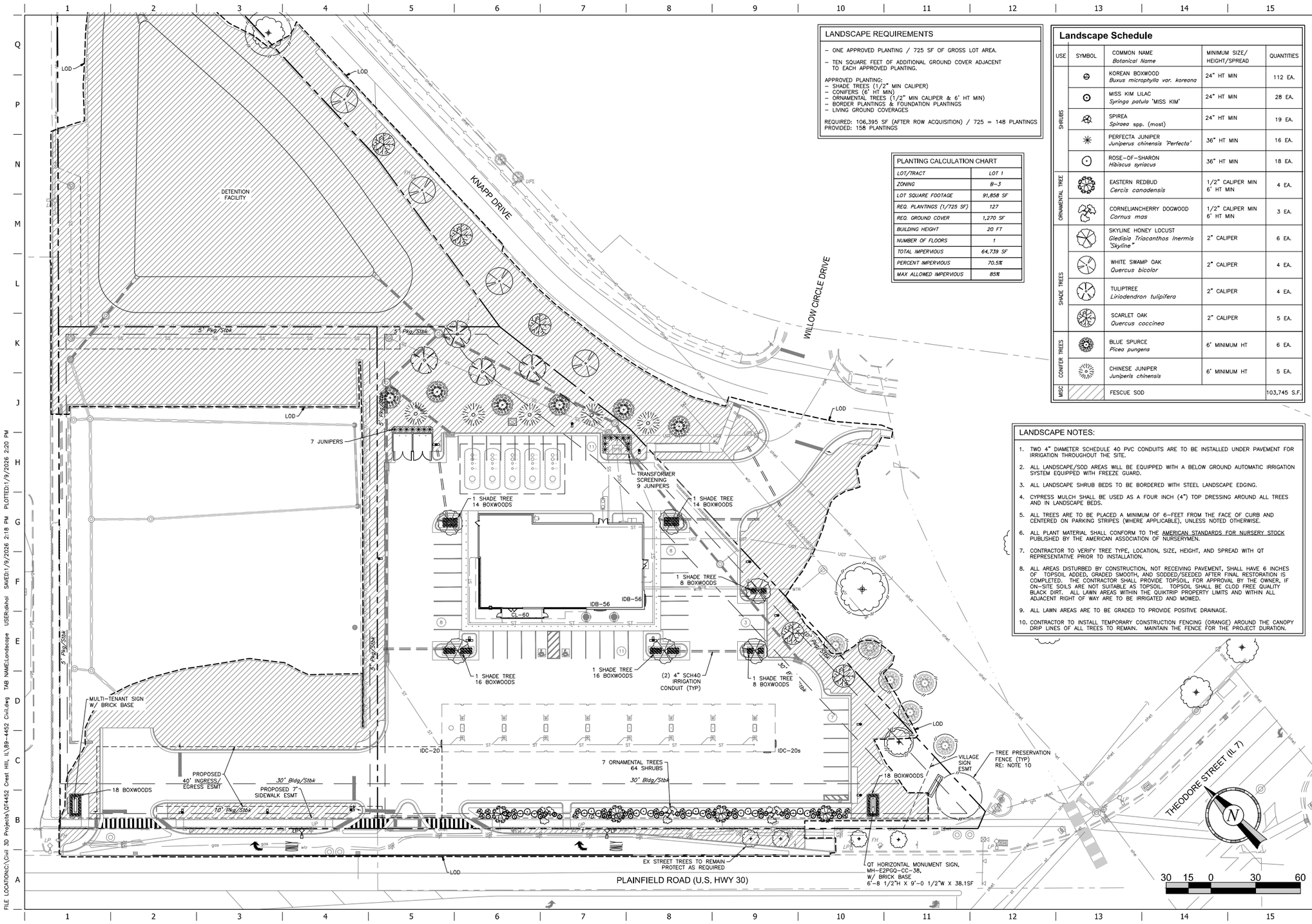
PROTOTYPE:	P-122
DIVISION:	84
VERSION:	001
DESIGNED BY:	DKH
DRAWN BY:	CSH
REVIEWED BY:	CJC

REV	DATE	DESCRIPTION
		ORIGINAL ISSUE DATE: 01/09/2026

SHEET TITLE:
OVERALL LANDSCAPE IMPERVIOUS SURFACE PLAN

SHEET NUMBER:
L100

FILE LOCATION=C:\Civil 3D Projects\QT4452 Crest Hill, IL\84-4452 Civil.dwg TAB NAME=Overall Landscape USER=dkhol SAVED=1/9/2026 2:18 PM PLOTTED=1/9/2026 2:20 PM



LANDSCAPE REQUIREMENTS

- ONE APPROVED PLANTING / 725 SF OF GROSS LOT AREA.
- TEN SQUARE FEET OF ADDITIONAL GROUND COVER ADJACENT TO EACH APPROVED PLANTING.

APPROVED PLANTING:
- SHADE TREES (1/2" MIN CALIPER)
- CONIFERS (6' HT MIN)
- ORNAMENTAL TREES (1/2" MIN CALIPER & 6' HT MIN)
- BORDER PLANTINGS & FOUNDATION PLANTINGS
- LIVING GROUND COVERAGES

REQUIRED: 106,395 SF (AFTER ROW ACQUISITION) / 725 = 148 PLANTINGS
PROVIDED: 158 PLANTINGS

PLANTING CALCULATION CHART	
LOT/TRACT	*LOT 1*
ZONING	*B-3*
LOT SQUARE FOOTAGE	*91,858 SF*
REQ. PLANTINGS (1/725 SF)	*127*
REQ. GROUND COVER	*1,270 SF*
BUILDING HEIGHT	*20 FT*
NUMBER OF FLOORS	*1*
TOTAL IMPERVIOUS	*64,739 SF*
PERCENT IMPERVIOUS	*70.5%*
MAX ALLOWED IMPERVIOUS	*85%*

Landscape Schedule

USE	SYMBOL	COMMON NAME *Botanical Name*	MINIMUM SIZE/ HEIGHT/SPREAD	QUANTITIES
SHRUBS		KOREAN BOXWOOD *Buxus microphylla var. koreana*	24" HT MIN	112 EA.
		MISS KIM LILAC *Syringa patula 'MISS KIM'*	24" HT MIN	28 EA.
		SPIREA *Spiraea spp. (most)*	24" HT MIN	19 EA.
		PERFECTA JUNIPER *Juniperus chinensis 'Perfecta'*	36" HT MIN	16 EA.
		ROSE-OF-SHARON *Hibiscus syriacus*	36" HT MIN	18 EA.
ORNAMENTAL TREE		EASTERN REDBUD *Cercis canadensis*	1/2" CALIPER MIN 6' HT MIN	4 EA.
		CORNELIANCHERRY DOGWOOD *Cornus mas*	1/2" CALIPER MIN 6' HT MIN	3 EA.
SHADE TREES		SKYLINE HONEY LOCUST *Gleditsia Triacanthos Inermis "Skyline"*	2" CALIPER	6 EA.
		WHITE SWAMP OAK *Quercus bicolor*	2" CALIPER	4 EA.
		TULIPTREE *Liriodendron tulipifera*	2" CALIPER	4 EA.
		SCARLET OAK *Quercus coccinea*	2" CALIPER	5 EA.
CONIFER TREES		BLUE SPURCE *Picea pungens*	6' MINIMUM HT	6 EA.
		CHINESE JUNIPER *Juniperis chinensis*	6' MINIMUM HT	5 EA.
MISC		FESCUE SOD		103,745 S.F.

LANDSCAPE NOTES:

1. TWO 4" DIAMETER SCHEDULE 40 PVC CONDUITS ARE TO BE INSTALLED UNDER PAVEMENT FOR IRRIGATION THROUGHOUT THE SITE.
2. ALL LANDSCAPE/SOD AREAS WILL BE EQUIPPED WITH A BELOW GROUND AUTOMATIC IRRIGATION SYSTEM EQUIPPED WITH FREEZE GUARD.
3. ALL LANDSCAPE SHRUB BEDS TO BE BORDERED WITH STEEL LANDSCAPE EDGING.
4. CYPRESS MULCH SHALL BE USED AS A FOUR INCH (4") TOP DRESSING AROUND ALL TREES AND IN LANDSCAPE BEDS.
5. ALL TREES ARE TO BE PLACED A MINIMUM OF 6-FEET FROM THE FACE OF CURB AND CENTERED ON PARKING STRIPES (WHERE APPLICABLE), UNLESS NOTED OTHERWISE.
6. ALL PLANT MATERIAL SHALL CONFORM TO THE AMERICAN STANDARDS FOR NURSERY STOCK PUBLISHED BY THE AMERICAN ASSOCIATION OF NURSERYMEN.
7. CONTRACTOR TO VERIFY TREE TYPE, LOCATION, SIZE, HEIGHT, AND SPREAD WITH QT REPRESENTATIVE PRIOR TO INSTALLATION.
8. ALL AREAS DISTURBED BY CONSTRUCTION, NOT RECEIVING PAVEMENT, SHALL HAVE 6 INCHES OF TOPSOIL ADDED, GRADED SMOOTH, AND SODDED/SEEDED AFTER FINAL RESTORATION IS COMPLETED. THE CONTRACTOR SHALL PROVIDE TOPSOIL, FOR APPROVAL BY THE OWNER, IF ON-SITE SOILS ARE NOT SUITABLE AS TOPSOIL. TOPSOIL SHALL BE CLOD FREE QUALITY BLACK DIRT. ALL LAWN AREAS WITHIN THE QUIKTRIP PROPERTY LIMITS AND WITHIN ALL ADJACENT RIGHT OF WAY ARE TO BE IRRIGATED AND MOWED.
9. ALL LAWN AREAS ARE TO BE GRADED TO PROVIDE POSITIVE DRAINAGE.
10. CONTRACTOR TO INSTALL TEMPORARY CONSTRUCTION FENCING (ORANGE) AROUND THE CANOPY DRIP LINES OF ALL TREES TO REMAIN. MAINTAIN THE FENCE FOR THE PROJECT DURATION.

DARLA K. HOLMAN 062-072191 ILLINOIS REGISTERED LANDSCAPE ARCHITECT
1/9/26

PROJECT NO.: 84-4452

Midwest Design Group
Kansas City
PO Box 860015
Shawnee, KS 66286-0015
P 913.248.9385

QuikTrip No. 4452

1610 PLAINFIELD ROAD
CREST HILL, WILL COUNTY, ILLINOIS 60403

PROTOTYPE:	P-122
DIVISION:	84
VERSION:	001
DESIGNED BY:	DKH
DRAWN BY:	CSH
REVIEWED BY:	CJC

REV	DATE	DESCRIPTION
		ORIGINAL ISSUE DATE: 01/09/2026

SHEET TITLE:
LANDSCAPE PLAN

SHEET NUMBER:
L101

FILE LOCATION:C:\Civil 3D Projects\QT4452 Crest Hill, IL\84-4452 Civil.dwg TAB NAME:Landscape USER:dkhol SAVED:1/9/2026 2:18 PM PLOTTED:1/9/2026 2:20 PM