

Colliers Project # 25001360A
July 14, 2025

Survey Control Report
Term Agreement D 214975
NYSTA Syracuse Division
Port Byron Service Area, MP 310.2 EB

Prepared for:



NEW YORK STATE THRUWAY AUTHORITY

Prepared By:



120 Madison Street Tower 2 Suite 500
Syracuse New York 13202

Field Personnel: C. Cempa – Crew Chief
M. Hunter, PLS – Survey Project Manager

Office Personnel: N. Lehman – Survey Specialist
D. Larson – Project Manager
M. Hunter, PLS – Survey Project Manager

TABLE OF CONTENTS

SECTION 1:

**Project Narrative
Project Scope and Technical Assumptions
Field Equipment
Field Work Dates**

SECTION 2:

Supervising Licensed Land Surveyor's Certification

SECTION 3:

Project Location and Topographic Limits

SECTION 4:

**Horizontal and Vertical Control Narrative
Primary Control and Benchmark Point List
Primary Control and Benchmark Layout Diagram
Primary Control and Benchmark Tie Sheets
Level Report
Primary Control Point Derivation Report**

SECTION 5:

Final Coordinates

SECTION 1

PROJECT NARRATIVE

The purpose of this survey is to establish both horizontal and vertical control throughout the project area along with gathering data of the existing field conditions as outlined in the project survey limits. Also included was to search for and locate all evidence of boundary lines, including NYS ROW monuments, private boundary line markers, and evidence of lines of occupation in the project area.

PROJECT SCOPE & TECHNICAL ASSUMPTIONS

Project Scope:

Colliers Engineering & Design will perform a topographic survey with highway boundary and property line determination of the areas outlined in the image below. The survey will be performed using the Current Existing Code of Practice for Land Surveys adopted by the New York State Association of Professional Land Surveyors, Inc.; the guidelines of the New York State Education Department and the State Board of Engineers and Land Surveyors.

Topographic Survey

Our office will prepare a topographic survey map that is a graphic pictorial representation of existing site features observed at the time of the field survey such as buildings, curbs, sidewalks, roadways, driveways, retaining walls, fences, individual trees in open areas, and utility hardware. Limits of wooded areas will be depicted based on the approximate dripline, but individual trees within wooded areas will not be surveyed. The topographic map will depict existing spot elevations and contours at a one-(1) foot contour interval. GPS surveying techniques will be used to control the survey with the resulting horizontal datum being New York State Plane Coordinate System Central Zone NAD83(2011) and the vertical datum being North American Vertical Datum NAVD88. Every effort shall be made to use the same system as shown on the Record Plans provided by NYSTA prior to starting the survey.

The proposed Survey Limits are depicted inside the red line in the image below:

Survey Limits



Visible and accessible utilities and/or utility structures within the survey limits as described above will be surveyed and shown on the plan to include rim, grate and invert elevations, and pipe sizes entering and/or exiting the structures. For the purposes of this contract, accessible utilities shall be defined as those utilities that are visible to the naked eye at ground level and are safely accessible on foot by Colliers Engineering & Design field survey personnel without the need for additional safety measures and/or assistance with making pipes visible, open and clear for inspection and measuring. We will survey visible evidence of existing utilities within the survey limits, but may not be able to confirm the existence, or actual position of all underground utilities which may be running through or servicing the subject property.

The 811 one call system will be utilized to obtain field designation of subsurface utilities servicing the subject property. Utility lines that are marked out in the field by the various utility companies will be surveyed and depicted on our topographic survey map. Record utility mapping that may be provided by the various utility companies will be reviewed and additional pertinent information may be added to our mapping to supplement the field survey data. While we will utilize the information described above to depict the utilities servicing the subject property, we may not be able to confirm the existence or exact position of all underground utilities which may be running through or servicing the subject property without further investigation which may involve excavation in the form of test holes or borings.

Included in this scope of service are the following tasks:

Establish on-site survey control: Set baseline points and benchmarks where it is unlikely they will be disturbed.

Mark baseline points using iron rods and caps.

Permanent Ties: Locate so that baseline can be re-established.

Coordinate and Station System: Every effort shall be made to use the same system as shown on the Record Plans.

Field traverse, topographic survey and data collection;

Field measure inverts of accessible gravity structures;

Field survey data reduction and computation;

Preparation of topographic survey map in AutoCAD Civil 3D 2022 format or later.

Base Mapping Requirements:

- i. Scale: 1" = 20' (minimum)
- ii. Contours: 1' intervals or as appropriate.
- iii. Benchmarks, ties and notes: Include on drawing.

Survey Control Report: Incorporate a survey control report into the Preliminary Plan submission.

The report will contain the following information:

- i. General Location Map
- ii. Narrative outlining the scope of the survey, equipment used, control precision achieved (horizontal and vertical) and explanation of property line determination
- iii. Baseline diagram with baseline tie sketches
- iv. Vertical Control diagram with benchmark sketches
- v. Field Notes

Traffic safety protection for field survey crew and cleaning of clogged or obstructed drain and sewer structures is **not** included in the fee for this survey. If it is determined that safety protection is required for any of the survey services performed under this contract, we will advise you of the approximate cost prior to moving forward. Such additional cost would be invoiced as a reimbursable expense pursuant to prior authorization.

Right of Way Survey

Colliers Engineering & Design will perform a right-of-way survey of the roads within the limits described above current Existing Code of Practice for Land Surveys adopted by the New York State Association of Professional Land Surveyors, Inc.; the guidelines of the New York State Education Department and the State Board of Engineers and Land Surveyors.

Right of way survey limits in this task will include:

Right-of-way boundaries will be solved from field surveyed right of way evidence, available NYSTA record property documents and mapping researched for the areas within and outside of the scope limits to establish right of way boundary lines within scope limits.

Determine the highway boundaries within the survey limits based on map, record plan, and permanent survey marker information provided by the Region.

Determine the approximate property lines based on map covers, title data, and field evidence.

Final Deliverable. The final deliverable will be a maximum of eight (8) hardcopies signed and sealed by a New York Professional Licensed Land Surveyor, and an electronic file in AutoCAD Civil 3D 2022 format or later. Draft deliverables will be in form of electronic file Adobe pdf format.

FIELD EQUIPMENT

Trimble DiNi Digital Level
Trimble S7 1" Robotic Total Station
(2) Trimble R980 GNSS GPS Receivers

FIELD WORK DATES

April 21, 2025 thru July 8, 2025

SECTION 2

SUPERVISING SURVEYOR CERTIFICATION

It is hereby certified that this is an accurate survey prepared under my direction in accordance with the New York State Department of Transportation specifications, policies, and procedures.

A handwritten signature in black ink, appearing to read "Mark R. Hunter", is written above a solid horizontal line.

Mark R. Hunter
License No. 051065
July 14, 2025

SECTION 3

**PROJECT LOCATION
AND TOPOGRAPHIC LIMITS**

PROJECT LOCATION & TOPOGRAPHIC LIMITS



SECTION 4

Horizontal and Vertical Control Narrative
Primary Control and Benchmark Point List
Primary Control and Benchmark Layout Diagram
Primary Control & Benchmark Tie Sheets
Level Report
Primary Control Point Derivation Report

HORIZONTAL AND VERTICAL CONTROL NARRATIVE

Horizontal control was established by setting primary control point 4 and setting up a Trimble R980 GNSS GPS Receiver collecting static GPS session being 5 hours with a 1 second epoch sampling rate. Heights were fixed using a 2-meter pole base station tripod. The static session was postprocessed in Trimble Business Center Version 2024.01 using the Trimble post processing option used as a survey check into existing baseline control. The control provided from the NYSTA in a CADD drawing entitled "6016070E_map_sur_3dh.dwg" prepared by Ravi Engineering & Land Surveying, P.C. with a survey field work date of 11/30/2016. This drawing contained survey baseline control published in the drawing file with notes and tie sheets for control recovery. The existing control Points 10 & 30 were held for a network adjustment with the post processing work on CORS stations for the final coordinates on Control Point 4.

With the GPS base set at control point 4, additional primary control points 2-3 were set with a Trimble R980 GNSS GPS Receiver utilizing RTK baseline observations. The additional control points were observed three different times with three independent observations. Each RTK observation was at least three minutes in duration and the three observations on each control point were averaged to obtain final coordinates. The deltas in the northing and easting from the final averaged coordinate to each independent observation is shown in the Point Derivation Report in this report.

Primary control point 4 was then occupied with a Trimble R980 GNSS GPS Receiver to complete the topographic survey in the project limits utilizing RTK Observations.

Horizontal control is referenced to the New York State Plane Coordinate System, Central Zone, Transverse Mercator Projection of the North American Datum of 1983(2011) Epoch 2010.

Vertical Control was established utilizing a Trimble DiNi Digital Level. Holding the elevation of the established Control Point 4 at an NAVD88 elevation of 406.327' was used to begin the level loop. The level loop was run through primary control points 2, 3, 20 & 30 and benchmarks 200-201 and closed back to control point 4. The level run was adjusted and the level report is in this report.

Vertical control is referenced to the North American Vertical Datum of 1988 (NAVD88) (Geoid 18).

Primary Control & Benchmark Point List

Project file data		Coordinate System	
Name:	\\baps\Projects\NYS Thruway\25001360A \4.0 Dwgs\4.2 Survey\Trimble \25001360A.vce	Name:	United States/NAD83
Size:	732 KB	Zone:	New York Central 3102
Modified:	7/10/2025 3:31:40 PM (UTC:-4)	Datum:	NAD83(2011)
Time zone:	Eastern Standard Time	Global reference datum:	NAD83(2011)
Reference number:		Global reference epoch:	2010
Description:		Geoid:	GEOID18 (Conus)
Comment 1:		Vertical datum:	NAVD88
Comment 2:		Calibrated site:	
Comment 3:			

Additional Coordinate System Details

Local Site Settings			
Project latitude:	?	Ground scale factor:	1
Project longitude:	?	False northing offset:	0.000
Project height:	6.56	False easting offset:	0.000

Point List

ID	Northing (US survey foot)	Easting (US survey foot)	Elevation (US survey foot)	Feature Code
2	1101430.794	796578.535	401.40	CBP, RBRC
3	1101552.047	796890.574	409.46	CBP,RBRC
4	1101933.003	797143.212	406.33	CBP , CAPPED REBAR

7/14/2025 10:14:33 AM	\\baps\Projects\NYS Thruway\25001360A\4.0 Dwgs\4.2 Survey\Trimble\25001360A.vce	Trimble Business Center
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Project file data		Coordinate System	
Name:	\\baps\Projects\NYS Thruway\25001360A \4.0 Dwgs\4.2 Survey\Trimble \25001360A.vce	Name:	United States/NAD83
Size:	732 KB	Zone:	New York Central 3102
Modified:	7/10/2025 3:31:40 PM (UTC:-4)	Datum:	NAD83(2011)
Time zone:	Eastern Standard Time	Global reference datum:	NAD83(2011)
Reference number:		Global reference epoch:	2010
Description:		Geoid:	GEOID18 (Conus)
Comment 1:		Vertical datum:	NAVD88
Comment 2:		Calibrated site:	
Comment 3:			

Additional Coordinate System Details

Local Site Settings			
Project latitude:	?	Ground scale factor:	1
Project longitude:	?	False northing offset:	0.000
Project height:	6.56	False easting offset:	0.000

Point List

ID	Northing (US survey foot)	Easting (US survey foot)	Elevation (US survey foot)	Feature Code
200	1101536.295	796858.253	412.46	BM XCS IN S SIDE OF LP BASE
201	1101769.305	797049.467	406.75	XCS SW BOLT ON TOP OF HYD

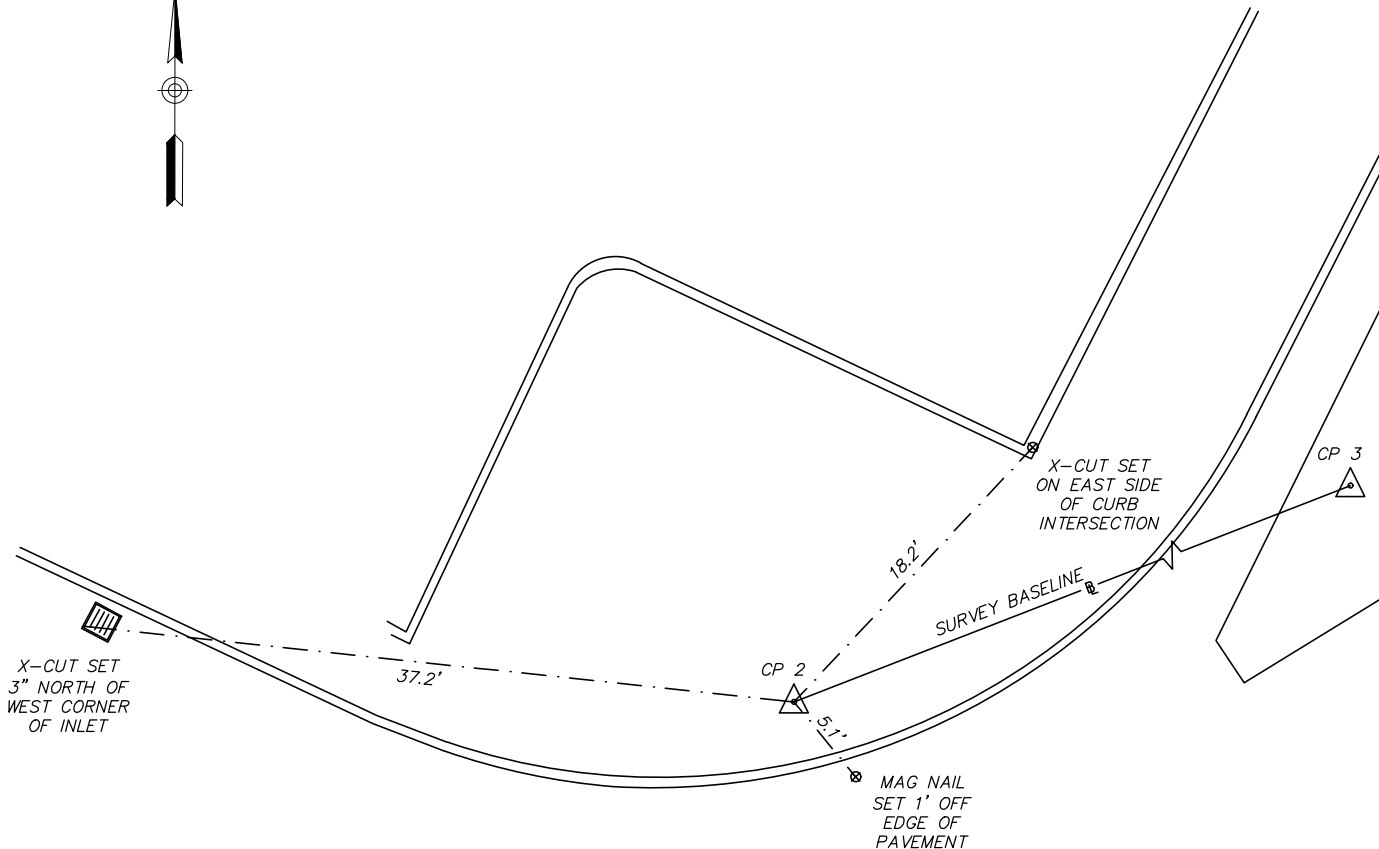
7/14/2025 10:16:18 AM	\\baps\Projects\NYS Thruway\25001360A\4.0 Dwgs\4.2 Survey\Trimble\25001360A.vce	Trimble Business Center
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Primary Control & Benchmark Layout Diagram





Primary Control Tie Sheets



HORIZONTAL DATUM: <u>NAD 83 (2011)</u>	CONTROL POINT: <u>CP 2</u>	DESCRIPTION: CP 2 IS A CAPPED REBAR SET NORTHERLY OF THE GRANITE CURB, LOCATED 37 FEET EAST OF THE NORTHWEST CORNER OF THE INLET.	TO STATION: <u>CP 3</u>	GRID BEARING: <u>N 68°45'53" E</u>	GRID DISTANCE: <u>334.77'</u>
VERTICAL DATUM: <u>NAVD 88</u>	COORDINATES: N: 1101430.794 E: 796578.535				
DATUM SOURCE: NYSPCS CENTRAL ZONE	<u>ELEV: 401.40</u>				
UNITS: <u>U.S. FEET</u>					



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**COLLIERS ENGINEERING & DESIGN,
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SURVEYING CT, P.C.**

VILLAGE OF PORT BYRON
CAYUGA COUNTY
STATE OF NEW YORK

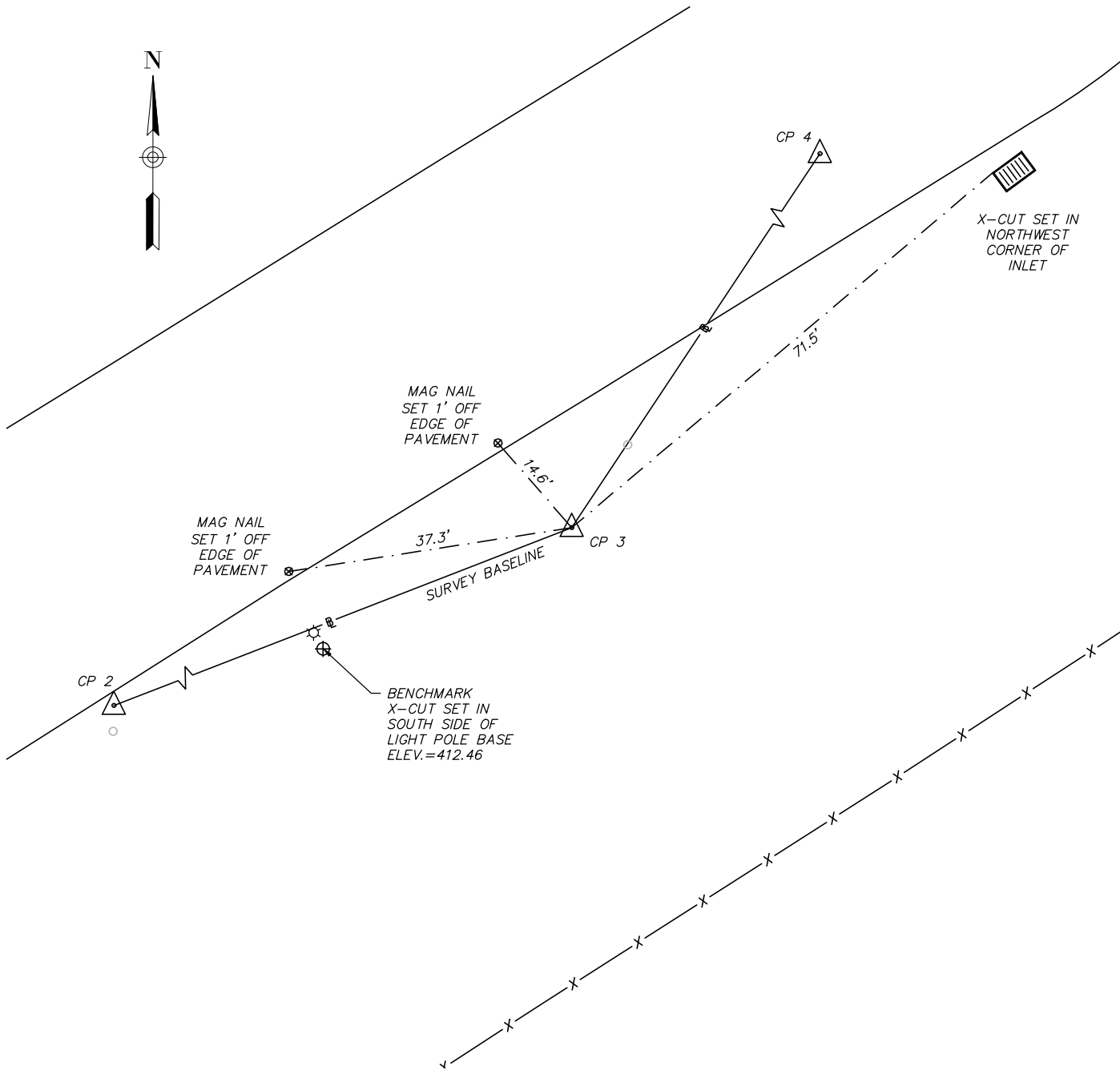
SCALE:	DRAWN BY:
1" = 10'	NJL
DESIGNED BY:	REVIEWED BY:
NJL	MRH
DATE ISSUED:	PROJECT NUMBER:
07/15/2025	25001360A
SHEET NAME:	

CONTROL
BASELINE POINT 2

DRAWING NUMBER:

1 of 3

NOTE: DO NOT SCALE DRAWINGS FOR CONSTRUCTION.



MONUMENT/CONTROL TYPE: AS SHOWN
ALL TIES: AS SHOWN

HORIZONTAL DATUM: NAD 83 (2011) VERTICAL DATUM: NAVD 88 DATUM SOURCE: NYSPCS CENTRAL ZONE UNITS: U.S. FEET	CONTROL POINT: CP 3 COORDINATES: N: 1101552.047 E: 796890.574 ELEV: 409.46	DESCRIPTION: CP 3 IS A CAPPED REBAR SET SOUTHERLY OF THE EDGE OF PAVEMENT, LOCATED 72 FEET WEST OF THE NORTHWEST CORNER OF THE INLET.	TO STATION:	GRID BEARING:	GRID DISTANCE:
			CP 2	S 68°45'53" W	334.77'
			CP 4	N 33°33'04" E	457.11'



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SURVEYING CT, P.C.

N.Y.S. THRUWAY
AUTHORITY-SYRACUSE
DIVISION

BASELINE TIE SHEET

PORT BYRON WASTE
WATER TREATMENT
PLANT

VILLAGE OF PORT BYRON
CAYUGA COUNTY
STATE OF NEW YORK

REV | DATE | DESCRIPTION

SCALE:
1" = 20'

DESIGNED BY:

NJL

DATE ISSUED:

07/15/2025

SHEET NAME:

DRAWN BY:

NJL

REVIEWED BY:

MRH

PROJECT NUMBER:

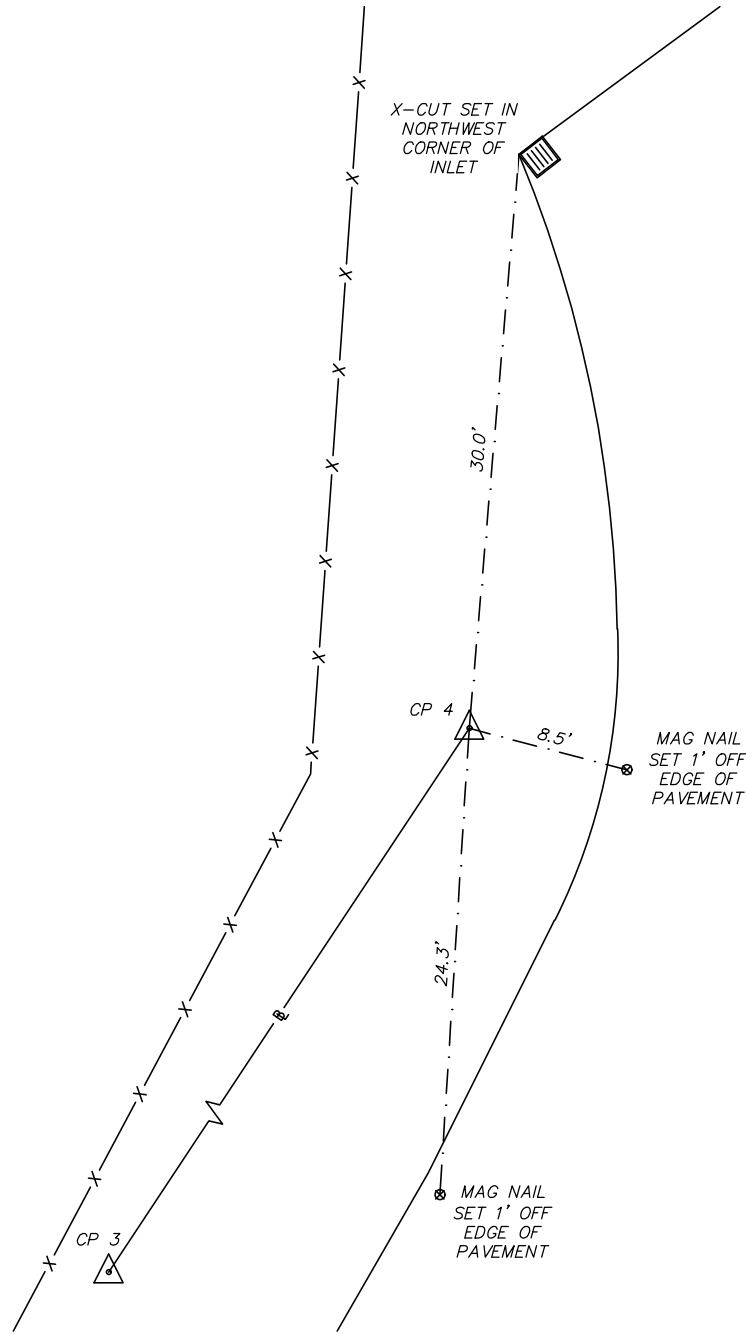
25001360A

CONTROL
BASELINE POINT 3

DRAWING NUMBER:

2 of 3

NOTE: DO NOT SCALE DRAWINGS FOR CONSTRUCTION.



MONUMENT/CONTROL TYPE: AS SHOWN
ALL TIES: AS SHOWN

HORIZONTAL DATUM: NAD 83 (2011) VERTICAL DATUM: NAVD 88 DATUM SOURCE: NAD 83 (2011) UNITS: U.S. FEET	CONTROL POINT: CP 4 COORDINATES: N: 1101933.003 E: 797143.212 ELEV: 406.33	DESCRIPTION: CP 4 IS A CAPPED REBAR SET WESTERLY OF THE EDGE OF PAVEMENT, LOCATED 30 FEET SOUTH OF THE NORTHWEST CORNER OF THE INLET.	TO STATION: CP 3	GRID BEARING: S 33°33'04" W	GRID DISTANCE: 457.11'



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SURVEYING CT, P.C.

N.Y.S. THRUWAY
AUTHORITY-SYRACUSE
DIVISION

BASELINE TIE SHEET

PORT BYRON WASTE
WATER TREATMENT
PLANT

VILLAGE OF PORT BYRON
CAYUGA COUNTY
STATE OF NEW YORK

REV	DATE	DESCRIPTION

SCALE: 1" = 10'	DRAWN BY: NJL
DESIGNED BY: NJL	REVIEWED BY: MRH
DATE ISSUED: 07/15/2025	PROJECT NUMBER: 25001360A
SHEET NAME: CONTROL BASELINE POINT 4	
DRAWING NUMBER: 3 of 3	

NOTE: DO NOT SCALE DRAWINGS FOR CONSTRUCTION.

Level Report

Project File Data		Coordinate System	
Name:	\\baps\Projects\NYS Thruway\25001360A\4.0 Dwgs\4.2 Survey\Trimble\25001360A.vce	Name:	United States/NAD83
Size:	732 KB	Zone:	New York Central 3102
Modified:	7/10/2025 3:31:40 PM (UTC:-4)	Datum:	NAD83(2011)
Time zone:	Eastern Standard Time	Global reference datum:	NAD83(2011)
Reference number:		Global reference epoch:	2010
Description:		Geoid:	GEOID18 (Conus)
Comment 1:		Vertical datum:	NAVD88
Comment 2:		Calibrated site:	
Comment 3:			

Additional Coordinate System Details

Local Site Settings			
Project latitude:	?	Ground scale factor:	1
Project longitude:	?	False northing offset:	0.000 ft
Project height:	6.56 ft	False easting offset:	0.000 ft

--

Level Report

Imported file: [25001360.DAT](#)

Instrument: DiNi
Creation option: Level coordinates
Description usage: Ignored








Run - 1 Raw Observations

Standard error per kilometer of double leveling: 0.00230 ft
Standard error per turn/station setup: 0.00000 ft
Raw Misclosure: 0.00450 ft
 Σ BS Distances: 945.680 ft
 Σ FS Distances: 1067.650 ft
Run Length: 2013.330 ft
Reduction: Adjusted Values

Create	Point ID	BS	HI	IS	FS	Δ Elevation	Raw Elevation	Correction	Adj. Elevation	Type	Distance	Description
<input checked="" type="checkbox"/>	4	<input checked="" type="checkbox"/> 4.29180 ft	410.61880 ft			0.00000 ft	406.32700 ft	0.00000 ft	406.32700 ft 🚧	Benchmark	160.140 ft	CBP
<input type="checkbox"/>	tp1				<input checked="" type="checkbox"/> 4.70810 ft	-0.41630 ft	405.91070 ft	-0.00119 ft	405.90951 ft	Computed	172.030 ft	tp1
	tp1	<input checked="" type="checkbox"/> 7.13440 ft	413.04510 ft								72.030 ft	tp1
<input checked="" type="checkbox"/>	3				<input checked="" type="checkbox"/> 3.58770 ft	3.54670 ft	409.45740 ft	-0.00167 ft	409.45573 ft	Computed	61.180 ft	tp1
	3	<input checked="" type="checkbox"/> 7.65030 ft	417.10770 ft								19.080 ft	tp1

<input checked="" type="checkbox"/>	200			<input checked="" type="checkbox"/>	4.64600 ft	3.00430 ft	412.46170 ft	-0.00181 ft	412.45989 ft	Computed	20.460 ft	tp1
	200	<input checked="" type="checkbox"/>	0.73530 ft	413.19700 ft							106.530 ft	tp1
<input checked="" type="checkbox"/>	30			<input checked="" type="checkbox"/>	9.83480 ft	-9.09950 ft	403.36220 ft	-0.00269 ft	403.35951 ft	Computed	137.900 ft	tp1
	30	<input checked="" type="checkbox"/>	3.95740 ft	407.31960 ft							70.290 ft	tp1
<input checked="" type="checkbox"/>	2			<input checked="" type="checkbox"/>	5.91720 ft	-1.95980 ft	401.40240 ft	-0.00257 ft	401.39983 ft	Computed	74.680 ft	tp1
	2	<input checked="" type="checkbox"/>	2.95630 ft	404.35870 ft							97.220 ft	tp1
<input checked="" type="checkbox"/>	20			<input checked="" type="checkbox"/>	9.57440 ft	-6.61810 ft	394.78430 ft	-0.00241 ft	394.78189 ft	Computed	98.820 ft	tp1
	20	<input checked="" type="checkbox"/>	10.52250 ft	405.30680 ft							148.270 ft	tp1
	30			<input checked="" type="checkbox"/>	1.94510 ft	8.57740 ft	403.36170 ft	-0.00219 ft	403.35951 ft	Computed	129.040 ft	tp1
	30	<input checked="" type="checkbox"/>	6.46800 ft	409.82970 ft							185.440 ft	tp1
<input checked="" type="checkbox"/>	201			<input checked="" type="checkbox"/>	3.07120 ft	3.39680 ft	406.75850 ft	-0.00382 ft	406.75468 ft	Computed	271.320 ft	tp1
	201	<input checked="" type="checkbox"/>	4.26600 ft	411.02450 ft							86.680 ft	tp1
	4			<input checked="" type="checkbox"/>	4.69300 ft	-0.42700 ft	406.33150 ft	-0.00450 ft	406.32700 ft 🚧	Benchmark	102.220 ft	CBP

Run - 1 (N2) Reduced Coordinates

Point ID	Status	Elevation
 4	Enabled	406.32700 ft
 3	Enabled	409.45573 ft
 200	Enabled	412.45989 ft
 30	Enabled	403.35951 ft
 2	Enabled	401.39983 ft
 20	Enabled	394.78189 ft
 201	Enabled	406.75468 ft

Date: 7/14/2025 10:11:31 AM

 Project: \\baps\Projects\NYS
 Thruway\25001360A\4.0 Dwgs\4.2
 Survey\Trimble\25001360A.vce

Trimble Business Center

Primary Control Point Derivation Report

Port Byron Service Area / WWTP



Colliers Engineering & Design
Syracuse Office









Project File Data		Coordinate System	
Name:	\\baps\Projects\NYS Thruway\25001360A\4.0 Dwgs\4.2 Survey\Trimble\25001360A.vce	Name:	United States/NAD83
Size:	733 KB	Zone:	New York Central 3102
Modified:	7/14/2025 3:31:25 PM (UTC:-4)	Datum:	NAD83(2011)
Time zone:	Eastern Standard Time	Global reference datum:	NAD83(2011)
Reference number:	Contract # D214975	Global reference epoch:	2010
Description:		Geoid:	GEOID18 (Conus)
Comment 1:		Vertical datum:	NAVD88
Comment 2:		Calibrated site:	
Comment 3:			

Additional Coordinate System Details

Local Site Settings			
Project latitude:	?	Ground scale factor:	1
Project longitude:	?	False northing offset:	0.000 ft
Project height:	6.56 ft	False easting offset:	0.000 ft



















Point Derivations

Resultant Coordinates for point: 2							
Northing		Easting		Elevation		Height	
1101430.794 ft		796578.535 ft		401.40 ft		288.77 ft	
Data	Used to calc.	Status	ΔNorth (US survey foot)	ΔEast (US survey foot)	Distance (Horiz) (US survey foot)	ΔElevation (US survey foot)	ΔHeight (US survey foot)
 Adjusted (Local)	NEeh	Enabled	0.000 ft	0.000 ft	0.000 ft	0.00 ft	0.00 ft
 4 → 2		Enabled	0.001 ft	0.000 ft	0.001 ft	0.02 ft	0.02 ft

 Global (25001306A 6-3-25CC.jxl)		Enabled	0.031 ft 	0.009 ft 	0.032 ft 	-0.01 ft 	-0.01 ft 
 Grid (25001360.DAT)		Enabled	?	?	?	0.00 ft 	?

Survey Data used to calculate point: [2](#)

Precision Confidence Level: **DRMS**

GNSS vectors						
4 → 2			Length (US survey foot)	ΔX (US survey foot)	ΔY (US survey foot)	ΔZ (US survey foot)
Mean:			755.768 ft	-470.735 ft	-460.396 ft	-370.984 ft
σ:				0.005 ft	0.007 ft	0.007 ft
Residuals	Horiz. (US survey foot)	Vert. (US survey foot)	3D (US survey foot)	ΔX (US survey foot)	ΔY (US survey foot)	ΔZ (US survey foot)
 4-2 (V1229)	0.008 ft	0.000 ft	0.008 ft	0.006 ft	-0.003 ft	-0.005 ft
 4-2 (V1230)	0.009 ft	0.005 ft	0.010 ft	0.007 ft	0.003 ft	-0.006 ft
 4-2 (V1239)	0.016 ft	0.003 ft	0.016 ft	-0.014 ft	0.000 ft	0.008 ft
Data	H. Prec. (US survey foot)	V. Prec. (US survey foot)	Length (US survey foot)	ΔX (US survey foot)	ΔY (US survey foot)	ΔZ (US survey foot)
 4-2 (V1229)	0.008 ft	0.012 ft	755.768 ft	-470.741 ft	-460.394 ft	-370.979 ft
 4-2 (V1230)	0.007 ft	0.011 ft	755.771 ft	-470.742 ft	-460.399 ft	-370.977 ft
 4-2 (V1239)	0.008 ft	0.013 ft	755.763 ft	-470.721 ft	-460.396 ft	-370.992 ft
Coordinates						
Source	Northing (US survey foot)	Easting (US survey foot)	Elevation (US survey foot)	Height (US survey foot)		
 Adjusted (Local)	1101430.794 ft 	796578.535 ft 	401.40 ft 	288.77 ft 		
 Global (25001306A 6-3-25CC.jxl)	1101430.764 ft 	796578.526 ft 	401.41 ft 	288.78 ft 		
 Grid (25001360.DAT)	?	?	401.40 ft 	?		

Resultant Coordinates for point: [3](#)

Northing	Easting	Elevation	Height
----------	---------	-----------	--------

1101552.047 ft

796890.574 ft

409.46 ft

296.83 ft

Data	Used to calc.	Status	Δ North (US survey foot)	Δ East (US survey foot)	Distance (Horiz) (US survey foot)	Δ Elevation (US survey foot)	Δ Height (US survey foot)
Adjusted (Local)	NEeh	Enabled	0.000 ft	0.000 ft	0.000 ft	0.00 ft	0.00 ft
Grid (25001360A 6-18-25CC.jxl)		Enabled	0.030 ft	0.007 ft	0.030 ft	0.01 ft	0.01 ft
4 → 3		Enabled	0.000 ft	-0.001 ft	0.001 ft	0.03 ft	0.03 ft
Global (25001360A 6-18-25CC.jxl)		Enabled	0.030 ft	0.007 ft	0.030 ft	0.01 ft	0.01 ft
Global (25001306A 6-3-25CC.jxl)		Enabled	0.029 ft	0.007 ft	0.030 ft	0.01 ft	0.01 ft
Grid (25001360.DAT)		Enabled	?	?	?	0.00 ft	?

Survey Data used to calculate point: [3](#)

Precision Confidence Level: DRMS

GNSS vectors						
4 → 3			Length (US survey foot)	Δ X (US survey foot)	Δ Y (US survey foot)	Δ Z (US survey foot)
Mean:			457.159 ft	-184.970 ft	-313.484 ft	-276.602 ft
σ :				0.006 ft	0.010 ft	0.008 ft
Residuals	Horiz. (US survey foot)	Vert. (US survey foot)	3D (US survey foot)	Δ X (US survey foot)	Δ Y (US survey foot)	Δ Z (US survey foot)
4-3 (V1223)	0.011 ft	0.003 ft	0.011 ft	0.005 ft	-0.008 ft	-0.006 ft
4-3 (V1224)	0.011 ft	0.028 ft	0.031 ft	0.008 ft	-0.027 ft	0.011 ft
4-3 (V1234)	0.014 ft	0.016 ft	0.021 ft	-0.011 ft	0.018 ft	-0.002 ft
Data	H. Prec. (US survey foot)	V. Prec. (US survey foot)	Length (US survey foot)	Δ X (US survey foot)	Δ Y (US survey foot)	Δ Z (US survey foot)
4-3 (V1223)	0.009 ft	0.012 ft	457.153 ft	-184.975 ft	-313.476 ft	-276.597 ft
4-3 (V1224)	0.010 ft	0.014 ft	457.151 ft	-184.978 ft	-313.456 ft	-276.613 ft
4-3 (V1234)	0.008 ft	0.013 ft	457.166 ft	-184.959 ft	-313.502 ft	-276.600 ft

Coordinates				
Source	Northing (US survey foot)	Easting (US survey foot)	Elevation (US survey foot)	Height (US survey foot)
Adjusted (Local)	1101552.047 ft	796890.574 ft	409.46 ft	296.83 ft
Grid (25001360A 6-18-25CC.jxl)	1101552.017 ft	796890.567 ft	409.45 ft	296.82 ft
Global (25001360A 6-18-25CC.jxl)	1101552.017 ft	796890.567 ft	409.45 ft	296.82 ft
Global (25001306A 6-3-25CC.jxl)	1101552.017 ft	796890.567 ft	409.45 ft	296.82 ft
Grid (25001360.DAT)	?	?	409.46 ft	?





















Resultant Coordinates for point: [4](#)

Northing		Easting		Elevation		Height	
1101933.003 ft		797143.212 ft		406.33 ft		293.70 ft	
Data	Used to calc.	Status	ΔNorth (US survey foot)	ΔEast (US survey foot)	Distance (Horiz) (US survey foot)	ΔElevation (US survey foot)	ΔHeight (US survey foot)
Adjusted (Local)	NEeh	Enabled	0.000 ft	0.000 ft	0.000 ft	0.00 ft	0.00 ft
NYWL → 4		Enabled	0.030 ft	-0.028 ft	0.041 ft	0.01 ft	0.01 ft
NYNS → 4		Enabled	0.007 ft	-0.021 ft	0.022 ft	0.01 ft	0.01 ft
NYCL → 4		Enabled	0.024 ft	-0.006 ft	0.025 ft	0.00 ft	0.00 ft
Grid (25001360.DAT)		Enabled	?	?	?	0.00 ft	?
Office entered (Global)		Enabled	0.032 ft	0.009 ft	0.033 ft	-0.02 ft	-0.02 ft





Survey Data used to calculate point: [4](#)

Precision Confidence Level: **DRMS**

GNSS vectors					
Tolerance of meaned vectors (US survey foot)					
Max horizontal tolerance of mean: 0.164					
Max vertical tolerance of mean: 0.262					
		Length (US survey foot)	ΔX (US survey foot)	ΔY (US survey foot)	ΔZ (US survey foot)
NYWL → 4					
Mean:		66937.977 ft	40383.496 ft	41600.930 ft	33454.874 ft
σ:			0.015 ft	0.045 ft	0.040 ft

Residuals	Horiz. (US survey foot)	Vert. (US survey foot)	3D (US survey foot)	ΔX (US survey foot)	ΔY (US survey foot)	ΔZ (US survey foot)
 NYWL-4 (V71)	0.049 ft	0.035 ft	0.061 ft	0.042 ft	0.026 ft	-0.035 ft
 NYWL-4 (V72)	0.044 ft	0.031 ft	0.054 ft	0.036 ft	0.038 ft	-0.016 ft
 NYWL --> 4 (PV28)	0.018 ft	0.004 ft	0.019 ft	-0.018 ft	0.002 ft	0.000 ft
Data	H. Prec. (US survey foot)	V. Prec. (US survey foot)	Length (US survey foot)	ΔX (US survey foot)	ΔY (US survey foot)	ΔZ (US survey foot)
 NYWL-4 (V71)	0.023 ft	0.057 ft	66937.952 ft	40383.454 ft	41600.904 ft	33454.908 ft
 NYWL-4 (V72)	0.031 ft	0.068 ft	66937.939 ft	40383.460 ft	41600.892 ft	33454.889 ft
 NYWL --> 4 (PV28)	0.013 ft	0.047 ft	66937.986 ft	40383.515 ft	41600.928 ft	33454.873 ft
NYNS → 4	H. Prec. (US survey foot)	V. Prec. (US survey foot)	Length (US survey foot)	ΔX (US survey foot)	ΔY (US survey foot)	ΔZ (US survey foot)
 NYNS --> 4 (PV26)	0.011 ft	0.040 ft	145233.436 ft	-131606.617 ft	-56015.086 ft	-25194.430 ft
NYCL → 4	H. Prec. (US survey foot)	V. Prec. (US survey foot)	Length (US survey foot)	ΔX (US survey foot)	ΔY (US survey foot)	ΔZ (US survey foot)
 NYCL --> 4 (PV31)	0.018 ft	0.044 ft	202072.787 ft	-145236.950 ft	77640.135 ft	117096.751 ft
Coordinates						
Source	Northing (US survey foot)		Easting (US survey foot)		Elevation (US survey foot)	Height (US survey foot)
 Adjusted (Local)	1101933.003 ft 		797143.212 ft 		406.33 ft 	293.70 ft 
 Grid (25001360.DAT)	?		?		406.33 ft 	?
 Office entered (Global)	1101932.971 ft 		797143.203 ft 		406.35 ft 	293.72 ft 

Resultant Coordinates for point: [10](#)

Northing		Easting		Elevation		Height	
1101723.211 ft 		796503.701 ft 		399.49 ft 		286.85 ft 	
Data	Used to calc.	Status	Δ North (US survey foot)	Δ East (US survey foot)	Distance (Horiz) (US	Δ Elevation (US survey foot)	Δ Height (US survey foot)

					survey foot)		
Adjusted (Local)	NEeh	Enabled	0.000 ft	0.000 ft	0.000 ft	0.00 ft	0.00 ft
Grid (RAVI-6016070E_map_sur_3dh.csv)		Enabled	0.000 ft	0.000 ft	0.000 ft	0.00 ft	0.00 ft
4 → 10		Enabled	-0.016 ft	0.015 ft	0.021 ft	0.03 ft	0.03 ft
Global (25001306A 6-3-25CC.jxl)		Enabled	0.015 ft	0.023 ft	0.027 ft	0.01 ft	0.01 ft

Survey Data used to calculate point:[10](#)

Precision Confidence Level: **DRMS**

GNSS vectors

4 → 10		Length (US survey foot)	ΔX (US survey foot)	ΔY (US survey foot)	ΔZ (US survey foot)
Mean:		673.138 ft	-590.186 ft	-282.231 ft	-158.557 ft
σ:			0.003 ft	0.005 ft	0.005 ft

Residuals	Horiz. (US survey foot)	Vert. (US survey foot)	3D (US survey foot)	ΔX (US survey foot)	ΔY (US survey foot)	ΔZ (US survey foot)
4-10 (V1248)	0.005 ft	0.004 ft	0.006 ft	0.000 ft	0.006 ft	0.001 ft
4-10 (V1249)	0.007 ft	0.004 ft	0.008 ft	0.000 ft	-0.008 ft	-0.002 ft

Data	H. Prec. (US survey foot)	V. Prec. (US survey foot)	Length (US survey foot)	ΔX (US survey foot)	ΔY (US survey foot)	ΔZ (US survey foot)
4-10 (V1248)	0.011 ft	0.016 ft	673.140 ft	-590.186 ft	-282.237 ft	-158.558 ft
4-10 (V1249)	0.013 ft	0.018 ft	673.134 ft	-590.187 ft	-282.223 ft	-158.555 ft

Coordinates

Source	Northing (US survey foot)	Easting (US survey foot)	Elevation (US survey foot)	Height (US survey foot)
Adjusted (Local)	1101723.211 ft	796503.701 ft	399.49 ft	286.85 ft
Grid (RAVI-6016070E_map_sur_3dh.csv)	1101723.211 ft	796503.701 ft	399.49 ft	286.85 ft
Global (25001306A 6-3-25CC.jxl)	1101723.196 ft	796503.678 ft	399.48 ft	286.84 ft

Resultant Coordinates for point:[20](#)

Northing
 1101434.541 ft

Easting
 796397.539 ft

Elevation
 394.78 ft

Height
 282.15 ft

Data	Used to calc.	Status	ΔNorth (US survey foot)	ΔEast (US survey foot)	Distance (Horiz) (US survey foot)	ΔElevation (US survey foot)	ΔHeight (US survey foot)
Adjusted (Local)	NEeh	Enabled	0.000 ft	0.000 ft	0.000 ft	0.00 ft	0.00 ft
Grid (RAVI-6016070E_map_sur_3dh.csv)		Enabled	-0.067 ft	0.011 ft	0.068 ft	0.05 ft	0.05 ft
4 → 20		Enabled	-0.003 ft	0.001 ft	0.003 ft	0.05 ft	0.05 ft
Global (25001306A 6-3-25CC.jxl)		Enabled	0.028 ft	0.010 ft	0.029 ft	0.03 ft	0.03 ft
Grid (25001360.DAT)		Enabled	?	?	?	0.00 ft	?

Survey Data used to calculate point:[20](#)Precision Confidence Level: **DRMS**

GNSS vectors						
4 → 20			Length (US survey foot)	ΔX (US survey foot)	ΔY (US survey foot)	ΔZ (US survey foot)
Mean:			897.077 ft	-648.556 ft	-495.024 ft	-372.927 ft
σ:				0.013 ft	0.023 ft	0.021 ft
Residuals	Horiz. (US survey foot)	Vert. (US survey foot)	3D (US survey foot)	ΔX (US survey foot)	ΔY (US survey foot)	ΔZ (US survey foot)
4-20 (V1246)	0.015 ft	0.027 ft	0.031 ft	0.016 ft	-0.025 ft	0.010 ft
4-20 (V1247)	0.021 ft	0.037 ft	0.042 ft	-0.021 ft	0.034 ft	-0.013 ft
Data	H. Prec. (US survey foot)	V. Prec. (US survey foot)	Length (US survey foot)	ΔX (US survey foot)	ΔY (US survey foot)	ΔZ (US survey foot)
4-20 (V1246)	0.010 ft	0.016 ft	897.078 ft	-648.571 ft	-494.998 ft	-372.936 ft
4-20 (V1247)	0.012 ft	0.019 ft	897.075 ft	-648.535 ft	-495.058 ft	-372.914 ft

Coordinates				
Source	Northing (US survey foot)	Easting (US survey foot)	Elevation (US survey foot)	Height (US survey foot)
Adjusted (Local)	1101434.541 ft	796397.539 ft	394.78 ft	282.15 ft
Grid (RAVI-6016070E_map_sur_3dh.csv)	1101434.608 ft	796397.528 ft	394.73 ft	282.09 ft
Global (25001306A 6-3-25CC.jxl)	1101434.513 ft	796397.529 ft	394.75 ft	282.11 ft
Grid (25001360.DAT)	?	?	394.78 ft	?

















Resultant Coordinates for point:[30](#)

Northing		Easting		Elevation		Height	
1101550.430 ft		796650.049 ft		403.36 ft		290.73 ft	
Data	Used to calc.	Status	ΔNorth (US survey foot)	ΔEast (US survey foot)	Distance (Horiz) (US survey foot)	ΔElevation (US survey foot)	ΔHeight (US survey foot)
Adjusted (Local)	NEeh	Enabled	0.000 ft	0.000 ft	0.000 ft	0.00 ft	0.00 ft
Grid (RAVI-6016070E_map_sur_3dh.csv)		Enabled	0.000 ft	0.000 ft	0.000 ft	0.00 ft	0.00 ft
4 → 30		Enabled	0.044 ft	-0.023 ft	0.050 ft	0.01 ft	0.01 ft
Grid (25001360.DAT)		Enabled	?	?	?	0.00 ft	?

Survey Data used to calculate point:[30](#)

Precision Confidence Level: **DRMS**

GNSS vectors						
4 → 30			Length (US survey foot)	ΔX (US survey foot)	ΔY (US survey foot)	ΔZ (US survey foot)
Mean:			624.220 ft	-419.734 ft	-365.876 ft	-282.150 ft
σ:				0.009 ft	0.014 ft	0.014 ft
Residuals	Horiz. (US survey foot)	Vert. (US survey foot)	3D (US survey foot)	ΔX (US survey foot)	ΔY (US survey foot)	ΔZ (US survey foot)

 4-30 (V1243)	0.008 ft	0.021 ft	0.023 ft	-0.003 ft	0.021 ft	-0.009 ft
 4-30 (V1250)	0.015 ft	0.020 ft	0.025 ft	0.001 ft	-0.024 ft	0.003 ft
Data	H. Prec. (US survey foot)	V. Prec. (US survey foot)	Length (US survey foot)	ΔX (US survey foot)	ΔY (US survey foot)	ΔZ (US survey foot)
 4-30 (V1243)	0.010 ft	0.018 ft	624.226 ft	-419.731 ft	-365.897 ft	-282.141 ft
 4-30 (V1250)	0.011 ft	0.016 ft	624.208 ft	-419.736 ft	-365.852 ft	-282.153 ft
Coordinates						
Source	Northing (US survey foot)	Easting (US survey foot)	Elevation (US survey foot)	Height (US survey foot)		
 Adjusted (Local)	1101550.430 ft 	796650.049 ft 	403.36 ft 	290.73 ft 		
 Grid (RAVI-6016070E_map_sur_3dh.csv)	1101550.430 ft 	796650.049 ft 	403.36 ft 	290.73 ft 		
 Grid (25001360.DAT)	?	?	403.36 ft 	?		

Date: 7/21/2025 12:12:13 PM	Project: \\baps\Projects\NYS Thruway\25001360A\4.0 Dwgs\4.2 Survey\Trimble\25001360A.vce	Trimble Business Center
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SECTION 5

Final Coordinates

2,1101430.794,796578.535,401.40,CBP,COLLIERS RED CAP REBAR
3,1101552.047,796890.574,409.46,CBP,COLLIERS RED CAP REBAR
4,1101933.003,797143.212,406.33,CBP,COLLIERS RED CAP REBAR
10,1101723.211,796503.701,399.49,RCRC, RAVI SURVEY @GRADE
11,1101776.511,797045.478,403.74,RBR 5/8" -.1'
12,1101532.966,797209.210,432.19,RBR 5/8" +.1' IN FIELD CAP 1' AWAY POSSIBLY DISTURBED
15,1101044.368,797268.725,440.62,RBRC @GRADE UNREADABLE
16,1100268.971,797400.476,447.57,RBRC @GRADE RAVI SURVEY
20,1101434.541,796397.539,394.78,RCRC, RAVI SURVEY @GRADE
30,1101550.430,796650.049,403.36,RBRC, RAVI SURVEY
60,1101044.351,797268.770,440.59,RBR W/CAP
70,1100268.931,797400.490,447.62,RBR W/CAP
200,1101536.295,796858.253,412.46,BM XCS IN S SIDE OF LP BASE
201,1101769.305,797049.467,406.75,XCS SW BOLT ON TOP OF HYD
300,1101908.715,797141.689,406.75,CBT, MAG 1' OFF-EP
301,1101930.834,797151.423,406.81,CBT, MAG 1' OFF-EP
302,1101962.890,797145.807,406.08,CBT, X-CUT NORTH-WEST COR INRC
303,1101598.175,796945.245,405.93,CBT, X-CUT IN NW CORNER INRC
304,1101563.042,796880.976,406.71,CBT, MAG 1' OFF PAVEMENT EDGE
305,1101546.342,796853.762,406.91,CBT, MAG 1' OFF PAVEMENT EDGE
306,1101444.052,796590.958,401.59,CBT, XCS ON E SIDE OF CURB INTERSECTION
307,1101426.889,796581.745,400.77,CBT, MAG 1' OFF EP
308,1101434.743,796541.510,400.03,CBT, XCS 3" NORTH OF WEST CORNER INRC
602,1101430.758,796578.566,401.39,CHK CPB 2
605,1102287.304,797429.800,410.53,CRF MANZARI
606,1101727.921,797289.529,434.63,CL HR 5W
607,1101772.659,797253.030,418.26,CL HR 5W
7000,1102632.420,797238.883,390.84,LOUD RING 24" DOWN NOTHING FOUND
77000,1100446.585,797318.168,446.53,GS
77001,1100461.323,797361.119,437.49,INV 18" RCP 2/3 FILLED WITH SEDIMENT
77002,1101153.046,797283.950,440.52,GS
77003,1101390.888,797270.431,435.61,GS
77004,1101741.241,797109.961,405.10,INRC 4'X2.5'
77005,1101699.808,797167.941,409.21,EP1 B
77006,1101705.538,797169.917,407.91,BB1 B
77007,1101713.047,797184.337,414.25,TL1 B
77008,1101738.325,797186.013,424.46,TB1 B
77009,1101686.122,797160.373,409.85,GS
77010,1101673.020,797152.682,408.98,EP2 B
77011,1101668.298,797148.748,408.09,BB2 B (2' RIP RAP STRIP)
77012,1101639.282,797137.605,421.34,TB2 B
77013,1101712.726,797143.979,407.68,EP1
77014,1101716.179,797148.052,406.86,BB1
77015,1101718.693,797150.859,407.79,TL1
77016,1101711.638,797147.606,407.47,REF
77017,1101699.228,797136.392,408.00,GS
77018,1101687.265,797128.244,407.65,EP2
77019,1101684.316,797131.413,407.70,REF
77020,1101677.869,797125.039,406.93,BB2
77021,1101654.829,797109.558,417.01,TB2
77022,1101657.963,797085.704,414.50,TB2
77023,1101635.396,797032.434,410.35,TB2
77024,1101601.559,797048.972,412.87,GS

77025,1101574.027,797059.313,414.53,GS
77026,1101607.973,797116.449,420.08,GS
77027,1101637.618,797097.214,416.24,GS
77028,1101680.177,797087.768,406.26,BB2
77029,1101670.738,797065.867,405.77,BB2
77030,1101658.287,797033.019,404.12,BB2
77031,1101687.671,797042.363,405.48,CLF1 B
77032,1101670.350,797032.570,405.83,CLF1
77033,1101653.272,797029.323,404.11,CLF1
77034,1101633.665,797025.834,409.68,CLF1
77035,1101598.728,797020.959,411.14,CLF1
77036,1101574.126,797016.790,411.63,CLF1
77037,1101548.696,797039.697,412.75,GS
77038,1101687.866,797042.116,405.59,SW1 B BW1 B (BLOCK)
77039,1101683.148,797060.983,406.79,GS
77040,1101683.408,797061.666,408.14,MHG (TANK RISER)
77041,1101688.551,797064.830,408.35,MHG (TANK RISER)
77042,1101694.580,797067.888,408.08,MHG (TANK RISER)
77043,1101699.938,797070.924,408.06,MHG (TANK RISER)
77044,1101705.822,797073.976,408.10,MHG (TANK RISER)
77045,1101711.201,797077.113,408.10,MHG (TANK RISER)
77046,1101710.165,797076.643,406.49,GS
77047,1101704.877,797074.269,406.95,GS
77048,1101699.974,797071.834,406.87,GS
77049,1101694.707,797068.730,406.77,GS
77050,1101689.215,797065.443,406.86,GS
77051,1101691.856,797077.564,406.51,GS
77052,1101692.704,797077.498,407.29,MHG (TANK RISER)
77053,1101696.173,797114.025,406.94,EP2
77054,1101696.002,797103.579,406.63,GRL2 B PC (S CHANNEL)
77055,1101701.041,797101.711,406.51,GRL2
77056,1101705.391,797097.377,406.22,GRL2 PT
77057,1101705.786,797097.656,406.37,EP2
77058,1101709.106,797085.761,406.11,REF
77059,1101718.098,797076.060,405.68,EP2
77060,1101717.513,797075.441,405.59,GRL2
77061,1101708.075,797027.215,405.35,WV
77062,1101683.675,797039.611,405.48,SW1
77063,1101688.269,797041.557,405.47,BW1
77064,1101722.337,797061.062,405.57,BW1
77065,1101723.562,797059.095,405.62,BW1
77066,1101724.093,797059.456,405.64,BW1
77067,1101697.023,797042.163,405.69,BLD1 B RECT (CEMENT BLOCK)
77068,1101690.213,797038.115,405.58,BLD1
77069,1101697.813,797024.894,405.46,BLD1
77070,1101695.948,797018.075,405.43,SW1
77071,1101731.365,797038.267,405.42,SW1 EP3 B
77072,1101736.734,797041.325,405.37,SW1
77073,1101724.312,797062.945,405.53,SW1 EP2
77074,1101722.594,797062.063,405.52,SW1 BW1 CLS
77075,1101723.090,797063.191,405.33,BOL
77076,1101723.522,797064.464,405.22,GRL2
77077,1101724.866,797060.229,405.58,GATE2 B
77078,1101732.139,797047.770,405.60,GATE2

77079,1101737.079,797042.121,405.47,GATE1 B
77080,1101760.747,797049.440,404.48,GATE1 CLF2 B
77081,1101704.836,797028.836,405.39,BW2 B
77082,1101732.561,797044.718,405.44,BW2
77083,1101731.070,797047.249,405.67,BW2
77084,1101730.502,797046.922,405.62,BW2
77085,1101731.686,797044.825,405.70,BW2
77086,1101704.440,797029.363,405.74,BW2 CLS
77087,1101705.445,797031.731,405.64,BOL
77088,1101703.972,797034.322,405.59,BOL
77089,1101702.451,797036.832,405.59,BOL
77090,1101700.948,797039.574,405.62,BOL
77091,1101699.333,797042.255,405.62,BOL
77092,1101699.264,797046.558,405.58,WV (YARDHYDRANT)
77093,1101724.699,797128.828,406.46,EP1 PC
77094,1101726.544,797129.390,406.21,BB1
77095,1101729.175,797131.288,407.04,TL1
77096,1101734.185,797119.510,405.74,EP1 BB1
77097,1101746.802,797112.643,405.16,EP1
77098,1101766.656,797111.339,406.09,EP1 PT
77099,1101762.684,797113.497,405.81,SGN1 (HANDICAP)
77100,1101775.953,797122.185,406.28,SGN1 (HANDICAP)
77101,1101768.547,797116.008,406.18,SGN1 (NO P)
77102,1101790.633,797125.018,406.47,EP1
77103,1101824.214,797144.397,406.95,EP1
77104,1101820.007,797151.825,405.68,BB3 B
77105,1101786.314,797134.333,405.57,BB3
77106,1101758.929,797121.511,405.80,BB3
77107,1101748.265,797114.543,405.43,BB3
77108,1101771.518,797123.729,406.20,GUY1 B
77109,1101785.869,797142.339,408.47,ELEC1 B
77110,1101785.682,797143.860,409.56,UP OHW1 (80K)
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77467,1101814.758,796936.155,404.91,BLD11 CLS
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77469,1101814.731,796935.550,404.64,EP10
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77481,1101853.764,796963.129,404.06,EP12
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77484,1101839.015,796972.461,405.27,BOC13
77485,1101820.810,796944.055,405.74,BOC13
77486,1101820.120,796944.550,405.84,BOC13
77487,1101819.954,796944.038,405.32,SW14 B
77488,1101821.105,796943.429,405.35,SW14 EP12
77489,1101823.297,796941.913,405.23,SW14
77490,1101822.137,796940.168,405.30,SW14 EP10
77491,1101822.261,796939.517,405.77,BOC10
77492,1101819.561,796935.416,405.88,BOC10
77493,1101815.929,796937.914,405.90,BOC10
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77495,1101816.151,796938.354,405.36,SW14
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77502,1101905.427,796864.064,403.72,VLT 2'X2'
77503,1101884.095,796830.013,403.89,VLT 2'X2'
77504,1101854.761,796863.369,404.39,VLT 2'X2'
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77508,1101914.197,796885.468,403.64,CNC20
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77510,1101862.575,796919.317,404.34,CNC20
77511,1101885.153,796954.449,403.89,CNC20
77512,1101886.470,796954.920,403.88,CNC20
77513,1101920.028,796933.709,403.53,CNC20

77514,1101919.542,796935.309,403.37,MW
77515,1101908.468,796952.300,403.54,VLT 2'X2'
77516,1101881.171,796970.614,403.52,MW
77517,1101868.645,796948.057,403.98,MHU
77518,1101746.832,796997.501,403.93,GS
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77523,1101765.385,796899.333,404.39,WV
77524,1101771.637,796916.318,404.32,MW
77525,1101782.355,796885.964,404.38,VLT 2'X2'
77526,1101791.148,796884.749,404.55,MW
77527,1101834.141,796857.567,404.60,MW
77528,1101838.351,796854.934,404.52,MW
77529,1101854.195,796815.144,404.06,MW
77530,1101838.978,796847.093,404.53,EP15 B
77531,1101838.826,796846.631,405.17,BOC15
77532,1101833.296,796836.688,405.33,LP
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77534,1101822.384,796824.996,405.41,BLD15
77535,1101827.493,796833.143,405.50,BLD15
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77538,1101818.927,796843.822,405.37,SW15 PC
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77548,1101780.374,796858.608,405.64,CNC17
77549,1101784.237,796865.895,405.26,LP
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77557,1101772.966,796882.904,404.65,BOC15 PT
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77607,1101718.161,796848.821,404.80,MHGT
77608,1101699.849,796860.579,404.62,MHS
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77625,1101630.851,796762.748,404.90,BOC18 B
77626,1101633.170,796766.370,404.96,BOC18 PC
77627,1101633.473,796766.016,404.43,EP18 CNC18 B PC
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77649,1101681.846,796776.348,404.63,EP18
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77686,1101680.846,796840.371,404.72,EP18 CNC18
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77695,1101603.986,796784.193,405.00,CNC7
77696,1101643.310,796786.847,404.98,RBRC "CONTROL POINT BASELINE" @GRADE
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77716,1101690.229,796727.029,404.47,SGN1 HANDICAP
77717,1101689.572,796738.529,404.66,SGN1 NOPARK
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77739,1101684.774,796704.584,403.81,CNC21 PT
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77744,1101719.525,796682.445,403.62,CNC21
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77757,1101760.678,796665.357,404.37,FP
77758,1101751.552,796671.275,404.29,FP
77759,1101742.386,796677.115,404.31,FP
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77783,1101366.877,796538.488,400.69,EP5

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77786,1101371.197,796539.491,400.31,EBX
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77792,1101368.428,796550.696,400.56,CNC21
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77794,1101372.778,796551.501,401.38,EHH
77795,1101374.864,796552.465,401.35,EHH
77796,1101376.046,796545.132,401.36,VLT 3'X6'
77797,1101378.000,796542.984,399.92,POST W/ WINCH LIFT
77798,1101377.560,796535.981,401.45,VLT 3'X3'
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77801,1101344.069,796496.143,403.70,EG5
77802,1101351.258,796495.392,402.47,VENT
77803,1101350.628,796493.940,402.85,BLD10 B CIR
77804,1101332.660,796486.868,403.84,BLD10
77805,1101331.363,796487.622,403.55,VENT
77806,1101339.699,796469.297,402.78,BLD10
77807,1101338.970,796467.840,402.61,VENT
77808,1101349.776,796465.912,404.01,GS
77809,1101351.511,796462.082,403.62,GS
77810,1101356.007,796466.452,402.24,EBX1 B RECT
77811,1101357.706,796467.164,401.73,EBX1
77812,1101358.662,796464.808,401.68,EBX1
77813,1101358.812,796475.606,401.16,VENT
77814,1101372.951,796482.198,398.03,8" CAPPED STAND PIPE
77815,1101358.159,796500.935,399.19,EP5
77816,1101370.768,796490.926,398.46,CNC11 B RECT
77817,1101373.503,796483.592,398.70,CNC11
77818,1101382.791,796487.225,398.69,CNC11
77819,1101383.701,796486.498,398.33,EBX2 <SWITCH PANEL
77820,1101386.444,796486.378,398.74,CNC12 B
77821,1101371.495,796480.750,398.19,CNC12 EP10 B
77822,1101372.401,796466.767,397.97,EP10 SW10 B
77823,1101379.217,796460.124,397.48,CNC12
77824,1101394.180,796465.756,397.35,CNC12
77825,1101390.841,796474.620,397.42,CNC12
77826,1101393.600,796475.699,397.50,CNC12
77827,1101392.520,796478.598,397.39,CNC12 EP20 B
77828,1101389.795,796477.517,397.33,CNC12
77829,1101391.050,796481.832,397.97,EP20
77830,1101388.450,796480.992,398.03,EP20 CNC12 CLS
77831,1101389.058,796480.221,397.94,EBX3
77832,1101396.094,796471.947,397.47,UV
77833,1101407.912,796470.630,397.84,WV
77834,1101410.872,796472.024,397.69,WV
77835,1101414.234,796471.579,397.72,WV
77836,1101409.600,796468.630,397.44,POST 4"X4" WOOD
77837,1101407.593,796467.509,397.48,HYD GARDEN HOSE

77838,1101411.416,796473.543,397.74,CNC13 B
77839,1101415.072,796475.198,397.93,CNC13
77840,1101411.864,796482.524,398.25,CNC13
77841,1101410.847,796485.448,398.21,SV
77842,1101409.876,796483.150,398.00,SV
77843,1101404.253,796490.082,398.02,SV
77844,1101403.631,796491.766,398.21,CNC14 B
77845,1101409.552,796494.428,398.59,CNC14
77846,1101405.564,796503.548,398.95,CNC14
77847,1101399.626,796500.912,398.41,CNC14 CLS
77848,1101394.058,796503.591,398.62,EP6
77849,1101398.395,796496.791,398.43,EP6
77850,1101400.314,796497.717,398.30,EP6
77851,1101401.216,796496.765,398.19,EBX4
77852,1101402.736,796492.678,398.30,EP6
77853,1101401.446,796491.753,398.31,EP6
77854,1101407.806,796478.416,397.92,EP6
77855,1101408.963,796478.597,397.79,EP6
77856,1101410.273,796475.687,397.80,EP6
77857,1101405.760,796473.605,397.88,EP6
77858,1101400.205,796486.117,398.20,EP6
77859,1101399.061,796486.099,398.22,BLD11 B RECT EP6
77860,1101391.412,796504.766,398.60,BLD11
77861,1101380.946,796500.390,398.58,BLD11
77862,1101366.046,796486.474,398.52,EP5 STEP1 B (ALUMINUM)
77863,1101361.145,796485.713,400.36,STEP1
77864,1101358.155,796485.377,401.20,STEP1
77865,1101358.720,796481.471,401.20,STEP1
77866,1101361.229,796482.220,400.81,STEP1
77867,1101366.651,796483.049,398.46,STEP1 EP5
77868,1101369.788,796465.766,398.07,EP5 BW1
77869,1101369.194,796465.433,398.45,TW1 B WOOD
77870,1101371.213,796450.157,398.16,TW1
77871,1101371.434,796450.464,396.88,BW1
77872,1101374.195,796451.024,396.85,SW10
77873,1101376.081,796438.879,395.02,SW10
77874,1101380.377,796440.534,394.93,SW10
77875,1101380.369,796442.479,394.89,SW10
77876,1101381.762,796442.911,394.91,SW10
77877,1101383.030,796441.442,394.82,SW10
77878,1101386.686,796442.037,394.72,SW10
77879,1101387.337,796440.452,394.71,SW10
77880,1101376.531,796436.545,394.95,SW10
77881,1101373.128,796440.814,395.47,BW1 SW11 B
77882,1101369.821,796439.057,395.76,BW1
77883,1101372.784,796440.783,397.25,TW1
77884,1101370.059,796440.169,397.34,TW1
77885,1101370.544,796440.498,396.18,BLD12 B
77886,1101361.676,796463.301,400.53,BLD12
77887,1101344.955,796456.873,401.04,BLD12
77888,1101347.365,796446.246,398.89,AC
77889,1101351.523,796439.481,399.02,CNC15 B RECT
77890,1101347.099,796437.970,398.98,CNC15
77891,1101349.065,796432.402,398.96,CNC15

77892,1101353.698,796434.149,398.87,BLD12 CLS
77893,1101350.514,796434.903,399.00,LP TANK
77894,1101349.713,796437.257,398.96,LP TANK
77895,1101373.730,796437.948,395.01,SW11
77896,1101370.696,796436.691,395.24,SW11
77897,1101371.785,796433.525,395.28,SW11
77898,1101369.702,796429.761,395.34,SW11
77899,1101366.805,796428.814,395.43,SW11
77900,1101378.749,796430.345,394.88,SW10
77901,1101367.692,796426.294,395.32,SW10
77902,1101370.546,796418.930,395.15,SW10
77903,1101360.917,796415.164,395.32,SW10
77904,1101359.994,796417.604,395.34,SW10
77905,1101367.198,796420.462,395.25,SW10
77906,1101363.959,796428.881,395.47,SW10
77907,1101366.424,796429.792,395.50,SW11
77908,1101367.980,796438.858,395.70,DECK1 B
77909,1101369.277,796435.748,395.55,DECK1
77910,1101365.384,796434.306,395.43,DECK1 STEP2 B
77911,1101367.083,796430.025,395.29,STEP2
77912,1101363.208,796428.676,395.48,STEP2
77913,1101361.609,796432.776,395.69,STEP2 DECK1
77914,1101357.623,796431.389,396.40,DECK1
77915,1101356.757,796433.652,396.81,DECK1
77916,1101378.146,796436.493,394.94,UV
77917,1101382.623,796443.748,395.19,UV
77918,1101377.457,796449.333,396.57,UV
77919,1101386.960,796449.786,396.32,UV
77920,1101384.731,796443.303,395.05,UV
77921,1101386.214,796442.752,394.80,UV
77922,1101389.424,796440.702,394.71,UV
77923,1101419.092,796419.495,394.48,UV
77924,1101436.175,796419.301,395.15,UV
77925,1101437.109,796434.324,396.25,LP
77926,1101416.598,796436.458,395.54,CNC16 B
77927,1101415.166,796440.147,395.90,CNC16
77928,1101414.784,796440.150,395.90,CNC16
77929,1101408.453,796455.788,396.68,CNC16
77930,1101403.031,796453.078,396.58,CNC16
77931,1101403.242,796451.608,396.48,EBX5
77932,1101408.673,796437.781,395.89,CNC16
77933,1101408.335,796437.650,395.88,CNC16
77934,1101409.660,796433.976,395.38,CNC16 CLS
77935,1101408.400,796438.161,395.73,SGN1 CONFINED SPACE
77936,1101393.427,796415.265,394.56,CNC17 B
77937,1101391.002,796414.373,394.57,CNC17
77938,1101391.833,796411.997,394.56,CNC17
77939,1101391.447,796409.703,394.41,UV
77940,1101389.017,796411.022,394.65,CNC17
77941,1101388.187,796413.376,394.68,CNC17
77942,1101385.940,796412.618,394.68,CNC17
77943,1101377.608,796434.665,394.98,CNC17
77944,1101385.082,796437.301,394.71,CNC17
77945,1101385.994,796434.993,394.67,CNC17

77946,1101388.323,796435.870,394.48,CNC17
77947,1101389.363,796433.098,394.51,CNC17
77948,1101387.067,796432.197,394.67,CNC17
77949,1101391.091,796421.538,394.44,CNC17
77950,1101391.405,796421.652,394.41,CNC17
77951,1101392.092,796419.764,394.50,CNC17
77952,1101391.801,796419.689,394.78,CNC17 CLS
77953,1101411.323,796436.540,396.65,VLT 3'X4'
77954,1101414.421,796437.713,396.69,VLT 3'X4'
77955,1101411.304,796440.334,396.71,VLT 2'X2'
77956,1101407.337,796450.605,397.67,VLT 4'X6'
77957,1101356.916,796413.041,396.96,STEP3 B CNC18 B
77958,1101361.024,796414.633,395.46,STEP3
77959,1101359.595,796418.325,395.47,STEP3
77960,1101355.425,796416.806,396.83,STEP3 CNC18
77961,1101352.749,796423.517,397.70,CNC18
77962,1101350.662,796422.822,397.89,CNC18
77963,1101349.817,796425.067,398.19,CNC18
77964,1101347.080,796423.956,398.31,CNC18
77965,1101347.881,796421.715,398.39,CNC18
77966,1101345.447,796420.670,398.24,CNC18
77967,1101347.014,796416.372,397.92,CNC18
77968,1101346.775,796416.253,397.97,CNC18
77969,1101347.477,796414.440,397.88,CNC18
77970,1101347.766,796414.513,398.02,CNC18
77971,1101353.819,796398.799,397.90,CNC18
77972,1101361.156,796401.590,397.54,CNC18 CLS
77973,1101360.996,796397.431,397.48,WV
77974,1101351.648,796395.430,398.11,LP
77975,1101365.899,796385.821,397.13,WV
77976,1101364.410,796381.883,397.16,WV
77977,1101359.543,796376.751,397.20,CNC19 B
77978,1101364.450,796363.779,396.42,CNC19
77979,1101371.262,796365.395,395.81,WV
77980,1101377.433,796368.686,395.86,CNC19
77981,1101375.592,796376.831,395.81,WV
77982,1101372.557,796381.657,396.37,CNC19 CLS
77983,1101373.263,796485.913,398.62,SHED1 B RECT
77984,1101371.523,796490.236,398.45,SHED1
77985,1101375.284,796491.599,398.38,SHED1
77986,1101377.906,796487.587,398.57,SHED2 B RECT
77987,1101376.233,796491.894,398.31,SHED2
77988,1101379.965,796493.363,398.34,SHED2
77989,1101419.099,796369.974,393.38,UV
77990,1101418.494,796366.569,392.90,UV
77991,1101420.865,796365.546,392.95,UV
77992,1101425.025,796367.875,392.88,VENT
77993,1101434.737,796371.809,393.12,VENT
77994,1101436.355,796375.797,393.29,BW3 B
77995,1101436.440,796375.876,393.69,TW3 B EG4 B
77996,1101445.322,796352.351,393.73,TW3
77997,1101445.139,796352.465,392.84,BW3
77998,1101452.867,796332.203,393.27,BW3
77999,1101453.243,796332.273,393.74,TW3

78000,1101434.634,796324.530,393.98,TW3
78001,1101434.518,796324.600,393.14,BW3
78002,1101445.311,796297.394,392.96,BW3
78003,1101445.336,796297.546,393.83,TW3
78004,1101455.186,796275.668,393.58,TW3
78005,1101454.979,796275.816,392.99,BW3
78006,1101448.451,796276.403,392.91,VENT
78007,1101438.434,796272.457,392.93,VENT
78008,1101428.120,796268.430,392.90,VENT
78009,1101434.555,796268.563,392.75,BW3
78010,1101434.555,796268.374,393.80,TW3
78011,1101413.292,796259.341,393.92,TW3
78012,1101413.398,796259.438,393.08,BW3
78013,1101417.421,796264.573,392.98,VENT
78014,1101414.962,796284.941,392.67,GS
78015,1101429.408,796277.776,392.57,GS
78016,1101435.623,796293.833,392.85,GS
78017,1101428.006,796291.085,393.34,CNC40 B CIR
78018,1101426.112,796286.825,393.33,CNC40
78019,1101422.061,796288.671,393.36,CNC40
78020,1101425.012,796289.842,393.16,INV 4" CAST RISER
78021,1101405.428,796281.814,393.89,TW3
78022,1101405.647,796281.810,392.94,BW3
78023,1101393.354,796309.421,392.97,BW3
78024,1101393.240,796309.246,393.74,TW3
78025,1101374.606,796301.206,393.38,TW3 EG3 B
78026,1101374.620,796301.332,393.14,BW3
78027,1101368.482,796299.269,393.85,EG3
78028,1101358.213,796320.645,394.13,EG3
78029,1101365.354,796324.164,393.65,TW3
78030,1101365.398,796324.237,392.72,BW3
78031,1101356.070,796345.018,392.94,BW3
78032,1101355.915,796345.116,393.33,TW3
78033,1101348.291,796348.051,396.52,EG3
78034,1101357.616,796357.938,397.21,EG3
78035,1101390.946,796368.667,395.55,EG3
78036,1101426.267,796381.683,394.70,EG3 EG4
78037,1101423.703,796360.505,392.76,GS
78038,1101404.876,796340.041,393.10,GS
78039,1101413.512,796317.431,392.92,GS
78040,1101433.764,796335.498,392.69,GS
78041,1101439.120,796350.627,392.52,GS
78042,1101427.662,796351.500,393.35,CNC41 B CIR
78043,1101431.501,796349.435,393.30,CNC41
78044,1101429.289,796345.433,393.33,CNC41
78045,1101428.492,796348.471,393.14,INV 4" CAST
78046,1101382.981,796330.839,393.21,INV 4" CAST
78047,1101380.033,796329.398,393.30,CNC42 B CIR
78048,1101384.304,796328.035,393.32,CNC42
78049,1101385.748,796332.256,393.34,CNC42
78050,1101384.490,796313.614,392.52,GS
78051,1101371.217,796325.563,392.56,GS
78052,1101360.350,796342.840,392.92,VENT
78053,1101370.214,796347.004,392.81,VENT

78054,1101376.035,796348.186,392.83,UV
78055,1101374.976,796351.601,392.85,UV
78056,1101377.718,796350.333,392.77,UV
78057,1101380.219,796350.612,392.84,VENT
78058,1101390.401,796354.780,393.04,VENT
78059,1101404.132,796359.901,393.06,VENT
78060,1101414.507,796363.948,393.07,VENT
78061,1101377.874,796353.082,392.84,BW3
78062,1101377.907,796353.297,393.39,TW3
78063,1101421.211,796369.760,393.58,TW3 CLS
78064,1101421.160,796369.657,392.86,BW3 CLS
78065,1101460.658,796364.937,393.96,BLD40 B RECT
78066,1101457.529,796373.260,393.90,BLD40
78067,1101468.457,796377.413,394.59,BLD40
78068,1101458.747,796376.102,393.89,LP
78069,1101455.204,796368.197,393.95,CNC40 B RECT
78070,1101453.876,796371.659,394.17,CNC40
78071,1101457.578,796373.030,393.74,CNC40
78072,1101449.845,796393.434,394.50,HYD GARDEN HOSE
78073,1101448.694,796395.643,394.43,POST 4"X4"
78074,1101448.238,796381.732,394.59,GS
78075,1101467.277,796334.799,394.38,GS
78076,1101481.956,796322.513,393.80,POST ANGLE IRON
78077,1101481.999,796285.894,393.27,POST ANGLE IRON
78078,1101510.557,796283.218,394.43,CLF10 B
78079,1101483.750,796254.888,391.69,CLF10 GATE10 B
78080,1101480.786,796251.606,391.52,CLF11 B GATE10
78081,1101442.761,796211.669,389.95,CLF11 TL1 B
78082,1101443.546,796249.138,393.34,GS
78083,1101410.163,796251.375,393.70,GS
78084,1101401.096,796242.073,391.19,TL1
78085,1101387.405,796287.065,394.49,GS
78086,1101356.755,796270.387,392.02,TL1
78087,1101349.155,796301.058,393.72,GS
78088,1101329.703,796336.582,395.11,GS
78089,1101327.079,796356.248,396.21,GS
78090,1101346.691,796370.195,397.25,GS
78091,1101347.811,796385.219,397.75,GS
78092,1101308.268,796362.551,395.90,GS
78093,1101274.705,796330.592,393.26,TL1
78094,1101251.193,796335.930,393.06,TL1
78095,1101282.866,796376.095,395.65,GS
78096,1101315.097,796410.248,398.24,GS
78097,1101341.845,796430.861,398.93,GS
78098,1101327.860,796400.042,398.59,TR-CE 12"
78099,1101332.109,796392.336,397.90,TR-CE 20"
78100,1101320.665,796389.473,398.10,TR-CE 15"
78101,1101316.926,796383.881,397.63,TR-CE 15"
78102,1101287.835,796424.351,399.05,TR-CE 15"
78103,1101310.487,796462.030,401.51,GS
78104,1101277.089,796423.370,398.96,GS
78105,1101284.877,796432.716,399.72,STMP 15"
78106,1101273.115,796411.315,397.85,TB15 B TB16 B
78107,1101271.074,796406.316,397.56,TB15

78108,1101278.522,796412.490,398.18,TB16
78109,1101280.996,796407.042,397.73,TB16
78110,1101275.944,796409.470,396.97,INV 18"CPP
78111,1101277.434,796405.789,395.72,BB16 B BB15 B
78112,1101274.437,796405.270,395.93,BB15
78113,1101274.979,796392.132,395.46,BB15
78114,1101277.345,796392.122,395.49,BB16
78115,1101271.204,796392.203,396.36,TB15
78116,1101280.257,796391.436,396.37,TB16
78117,1101279.476,796359.595,394.61,TB16
78118,1101275.019,796360.568,394.37,BB16
78119,1101268.724,796335.942,393.15,BB16
78120,1101276.784,796334.637,393.61,TB16
78121,1101265.879,796365.809,395.09,TB15
78122,1101269.571,796364.659,394.64,BB15
78123,1101263.555,796335.368,393.08,BB15
78124,1101256.595,796338.250,393.48,TB15
78125,1101211.688,796357.196,393.89,TL1
78126,1101237.722,796410.535,399.04,GS
78127,1101269.448,796450.182,401.04,GS
78128,1101300.647,796492.190,403.11,GS
78129,1101322.138,796526.458,404.12,GS
78130,1101357.652,796573.098,404.25,GS
78131,1101342.961,796636.082,415.23,TB4
78132,1101335.619,796645.107,415.98,CLF2
78133,1101305.601,796599.271,412.75,CLF2
78134,1101315.855,796589.589,411.86,TB4
78135,1101297.313,796586.299,411.91,CLF2 HWF2 B
78136,1101278.344,796531.239,406.50,TB4
78137,1101266.126,796536.950,407.00,HWF2
78138,1101261.538,796510.392,404.54,TL2 B CIR
78139,1101273.727,796513.260,404.89,TL2
78140,1101276.874,796495.345,403.23,TL2
78141,1101236.854,796490.755,403.56,HWF2
78142,1101210.923,796448.945,401.80,HWF2
78143,1101227.956,796436.651,400.57,GS
78144,1101196.727,796389.915,397.66,GS
78145,1101178.553,796397.548,398.77,HWF2
78146,1101165.639,796377.384,396.01,TL1 HWF2
78147,1101700.022,796860.544,404.62,MHS INACCESSIBLE
78148,1101564.863,796647.835,392.81,INV 10" PVC -9.77'
78149,1101558.096,796641.558,392.69,INV 10" PVC -9.80
78150,1101562.092,796644.120,402.45,MHS
78151,1101746.503,796463.580,391.57,INRC
78152,1101741.927,796458.459,388.08,INV 12"CIP -3.89'
78153,1101749.828,796461.346,387.76,INV 24" RCP -4.03
78154,1101671.213,796815.026,394.73,INV 10"PVC1 -10.34
78155,1101667.252,796808.391,394.47,INV 10"PVC1 -10.34
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78167,1101728.135,796926.884,403.84,WV
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78169,1101717.315,796866.495,404.41,WAT1
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78171,1101736.035,796852.823,404.62,WAT1
78172,1101757.926,796831.235,405.39,WAT1
78173,1101713.760,796816.334,404.85,STRP3 B YELLOW HATCH
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78175,1101758.950,796901.257,404.47,STRP3
78176,1101750.938,796899.216,404.51,STRP3 PT
78177,1101703.235,796823.189,404.78,STRP3
78178,1101712.612,796794.034,404.78,STRP4 B YELLOW HATCH
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78183,1101700.110,796767.617,404.70,STRP4
78184,1101705.422,796772.043,404.72,STRP4 PT
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78186,1101713.577,796789.207,404.77,STRP4 CLS
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78190,1101669.690,796777.854,404.55,STRP6 B
78191,1101671.802,796767.205,404.45,STRP6
78192,1101677.562,796768.164,404.49,STRP5
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