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CITY OF CANTON, OHIO
US-30 STORM SEWER
CLEANING & TELEVISING 2022

FROM RAFF FORAD (ROUTE 297) TO WAYNESBURG ROAD (ROUTE 43)



GENERAL NOTES:

STORM SEWER AND STRUCTURE LOCATIONS ARE BASED ON BEST AVAILABLE INFORMATION. ACTUAL LOCATIONS OF STORM SEWERS AND STRUCTURES MAY VARY FROM PLAN INFORMATION. ANY DISCREPANCY WITH PIPE DIAMETER SHALL BE VERIFIED BY CONTRACTOR AND THE ENGINEER SHALL BE INFORMED AS SOON AS POSSIBLE. PAYMENT FOR CLEANING AND CCTV WORK WILL BE BASED ON ACTUAL PIPE SIZES.

THE FOLLOWING PAY ITEM DESCRIPTIONS PROVIDE THE OVERALL SCOPE OF WORK ASSOCIATED WITH THIS PROJECT. PIPES INCLUDED IN THE SCOPE OF THIS PROJECT ARE SHOWN IN BLUE ON THE FOLLOWING PAGES. ALL PAY ITEMS SHALL BE AS PER PLAN.

PAY ITEMS 1 THROUGH 13 – STORM SEWER CLEANING INCLUDING INLETS/ BASINS (ALL SIZE RANGES)

THE CONTRACTOR SHALL CLEAN THE SEWERS, MEDIAN INLETS, CATCH BASINS, MANHOLES, AND RELATED UNDERGROUND STRUCTURES AND VAULTS, IN ORDER TO REMOVE MATERIAL ACCUMULATIONS (SEDIMENT AND DEBRIS) TO AN ACCEPTABLE LEVEL. ACCEPTABLE LEVEL OF CLEANING IS DEFINED AS REMOVING ALL SEDIMENT & DEBRIS TO RESTORE THE INTERNAL PIPE OPENING TO A MINIMUM OF 95% OF THE ORIGINAL INTERNAL CROSS-SECTIONAL AREA OF THE PIPE OR STRUCTURE IN A MANNER SUCH THAT 100% OF LOOSE MATERIAL IS REMOVED AND HARD MATERIALS ATTACHED TO THE PIPE WALLS ARE REMOVED TO WITHIN 1/2-INCH OR LESS OF THE PIPE WALL. ALL MATERIALS DISLODGED DURING CLEANING SHALL BE REMOVED FROM THE SEWER AND DISPOSED OF BY THE CONTRACTOR.

ALL WASTE, SPILLS, SPOILS, AND DEBRIS SHALL BE CLEANED AND REMOVED FROM THE SITE, ROADWAYS, AND PROPERTY IMMEDIATELY. NONE SHALL BE ALLOWED TO ACCUMULATE AND DISPOSED OF AT REGULAR INTERVALS TO PREVENT ODOR NUISANCES. ALL SEDIMENT & DEBRIS REMOVED FROM THE SEWER SHALL BE DISPOSED OF OFF-SITE IN A LAWFUL MANNER AT A LICENSED OFF-SITE SOLID WASTE DISPOSAL FACILITY. MATERIALS SHALL BE TRANSPORTED TO A FACILITY LICENSED AND PERMITTED FOR THAT PURPOSE. ALL MATERIALS SHALL BE PROPERLY MANIFESTED WITH THE FINAL DESTINATION DOCUMENTED. CONTRACTOR IS RESPONSIBLE FOR ALL WASTE GENERATOR/MANIFEST FORMS REQUIRED FOR DISPOSAL, INCLUDING COORDINATION WITH ENGINEER AND OWNER AS NEEDED TO COMPLETE SAID FORMS. THE COST (INCLUDING ALL LABOR AND EQUIPMENT) TO DISPOSE OF ALL MATERIAL REMOVED FROM STORM CONDUITS AND STRUCTURES SHALL BE INCLUDED IN THE PRICE PER LINEAL FOOT OF CLEANING OF SEWERS. NO SEPARATE PAY ITEM IS PROVIDED.

THE COST (INCLUDING ALL LABOR AND EQUIPMENT) TO FLUSH, CLEAN AND REMOVE/DISPOSAL OF ALL MATERIAL FROM STORM CONDUITS AND STRUCTURES SHALL BE INCLUDED IN THE APPLICABLE BID ITEM ACCORDING TO THE SIZE OF THE SEWER. PIPE LENGTH SHALL BE MEASURED FROM THE CENTER OF THE UPSTREAM STRUCTURE TO THE CENTER OF THE DOWNSTREAM STRUCTURE. ALL CLEANING ASSOCIATED WITH STRUCTURES SHALL BE INCLUDED IN THE APPLICABLE UPSTREAM AND/OR DOWNSTREAM SEWER.

FURTHER CLARIFICATION TO THIS PAY ITEM IS AS FOLLOWS:

1. THE CONTRACTOR MAY CHOOSE TO CCTV THE SEWER FIRST TO DETERMINE THE LEVEL OF CLEANING NECESSARY.
2. IF CCTV OF THE SEWER, WITHOUT CLEANING, IDENTIFIES THAT CLEANING IS NOT REQUIRED TO MEET THE REQUIREMENTS OF THE APPLICABLE STORM SEWER CLEANING PAY ITEM, THEN THE CONTRACTOR WILL BE PAID FOR THE APPLICABLE STORM SEWER CLEANING AND STORM SEWER CCTC PAY ITEM BASED ON LENGTH AND DIAMETER OF THE APPLICABLE SEWER.
3. IF CCTV OF THE SEWER, WITH OR WITHOUT PRE-CLEANING, IDENTIFIES THAT CLEANING (OR ADDITIONAL CLEANING) IS REQUIRED, THE SEWER SHALL BE CLEANED AND RE-TELEVISED FOR THE ENTIRE PIPE SEGMENT (MANHOLE TO MANHOLE).
4. THE CONTRACTOR WILL NOT BE PAID FOR CLEANING ANY FOOT OF SEWER MORE THAN ONE TIME
5. THE CONTRACTOR WILL NOT BE PAID FOR TELEVISING ANY FOOT OF SEWER MORE THAN ONE TIME.

PAY ITEMS 14 THROUGH 26 – STORM SEWER CCTV (ALL SIZES)

THE CONTRACTOR SHALL PERFORM INSPECTION OF SEWERS USING A COLOR CLOSED CIRCUIT TELEVISION CAMERA (CCTV) AND DOCUMENT THE INSPECTION ON A DIGITAL RECORDER. ALL INSPECTION VIDEO SHALL BE IN MPEG OR WMV FILE FORMAT AND SAVED ON PORTABLE HARD DRIVES FOR SUBMITTAL. EACH INSPECTED SEWER SEGMENT, MANHOLE TO MANHOLE, SHOULD HAVE AN ASSOCIATED MPEG OR WMV FILE. INSPECTION LOGS, WHICH SHALL INCLUDE PIPE SEGMENT AND MANHOLE ASSET ID'S OR AS NOTED ON THE DRAWINGS, AND DIGITAL PHOTOGRAPHS (JPG FILES) SHALL ACCOMPANY THE VIDEO INSPECTIONS FOR EACH SEWER SEGMENT (MANHOLE TO MANHOLE) INSPECTED. ALL CCTV AND INSPECTION LOG FILES SHALL

BE NAMED BY THE SEGMENT ASSET ID. THE NATURE OF THE INSPECTIONS SHALL BE TO VERIFY THE CLEANLINESS OF THE SEWERS AND DOCUMENT ANY STRUCTURAL PROBLEMS. THE COST (INCLUDING ALL LABOR AND EQUIPMENT) TO TELEVISE, RECORD AND DOCUMENT ALL STORM CONDUITS AND STRUCTURES SHALL BE INCLUDED IN THE APPROPRIATE BID ITEM BASED ON SEWER SIZE. PIPE LENGTH SHALL BE MEASURED FROM THE CENTER OF THE UPSTREAM STRUCTURE TO THE CENTER OF THE DOWNSTREAM STRUCTURE. ALL CCTV ASSOCIATED WITH STRUCTURES SHALL BE INCLUDED IN THE APPLICABLE UPSTREAM AND/OR DOWNSTREAM SEWER.

PAY ITEM 27 - MAINTAINING TRAFFIC INCLUDING COORDINATION WITH CITY TRAFFIC ENGINEERING

THE CONTRACTOR SHALL MAINTAIN TRAFFIC IN ACCORDANCE WITH THE REQUIREMENTS OF THE OHIO DEPARTMENT OF TRANSPORTATION (ODOT) MANUAL OF CONSTRUCTION AND MATERIALS SPECIFICATIONS ITEM 614 MAINTAINING TRAFFIC. THE CONTRACTOR SHALL FURNISH, MAINTAIN, AND REMOVE ALL SIGNS, FLAGS, FLAGMEN, WATCHMEN, BARRICADES, SIGN SUPPORTS, CONES, BARRELS, AND INCIDENTALS IN CONFORMANCE WITH THE MOST RECENT REVISIONS OF THE CURRENT EDITION OF THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS.

INTERFERENCE WITH VEHICULAR TRAFFIC SHALL BE KEPT TO A MINIMUM AT ALL TIMES. ACCESS SHALL BE MAINTAINED AT ALL TIMES FOR EMERGENCY AND FIRE DEPARTMENT VEHICLES. ALL TRUCKS, EQUIPMENT, AND SUPPORT VEHICLES, SIGNS, AND ARROW BOARDS USED BY THE CONTRACTOR OR SUBCONTRACTORS SHALL UTILIZE HIGH VISIBILITY LED WARNING LIGHTS, WHEN REQUIRED BY ODOT AND/OR THE CANTON CITY TRAFFIC ENGINEER. CONTRACTOR SHALL SUBMIT A "WORK PLAN" IF REQUESTED DURING BID EVALUATIONS. THE WORK PLAN SHALL INCLUDE A DETAILED MAINTENANCE OF TRAFFIC (MOT) PLAN FOR APPROVAL BY THE CANTON CITY TRAFFIC ENGINEER.

THE COST (INCLUDING ALL LABOR AND EQUIPMENT) TO PROVIDE, ERECT, AND DISMANTLE ALL TRAFFIC CONTROL DEVICES, ETC. DURING THE ENTIRE CLEANING AND TELEVISING OPERATION SHALL BE INCLUDED IN THIS BID ITEM ON A LUMP SUM BASIS. PARTIAL PAYMENT FOR THIS PAY ITEM WILL BE MADE BASED ON THE PERCENTAGE OF TOTAL FOOTAGE OF PIPE TELEVISED COMPLETED AT THE TIME OF PAYMENT APPLICATION.

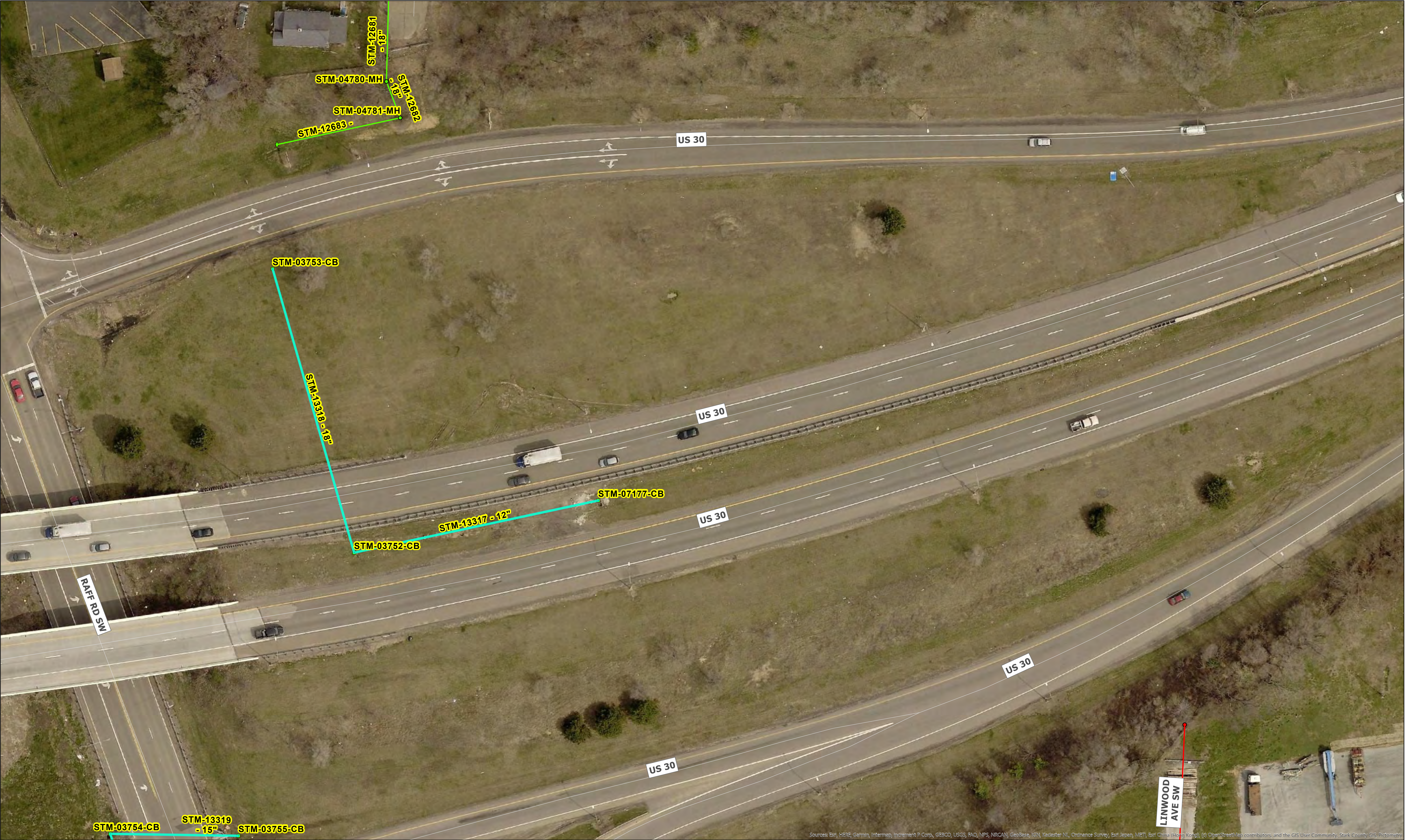
PAY ITEM 28 – LOCAL LAW ENFORCEMENT OFFICER & VEHICLE

A SEPARATE ALLOWANCE IS INCLUDED FOR "LOCAL LAW ENFORCEMENT OFFICER". THE ALLOWANCE IS INTENDED TO PAY FOR A LOCAL (CITY OF CANTON) LAW ENFORCEMENT OFFICER AND ONE POLICE CRUISER TO ASSIST WITH MOT DURING THE PROJECT. BIDDERS CAN CONTACT THE CANTON POLICE DEPARTMENT FOR HOURLY COSTS FOR AN OFFICER AND POLICE CRUISER (CONTACT SGT. SWANK @ (330) 438-4486). THIS ALLOWANCE WILL BE PAID TO THE CONTRACTOR ON A FORCE ACCOUNT BASIS BY SUBMISSION OF INVOICE(S) FOR POLICE TIME AND EQUIPMENT WHICH WILL BE REVIEWED AND APPROVED BY THE CITY PRIOR TO COMPLETION OF THE PROJECT. ANY COSTS ASSOCIATED WITH LAW ENFORCEMENT OFFICER AND VEHICLE ASSISTANCE BEYOND THE TOTAL ALLOWANCE AMOUNT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR. AT THE END OF THE CONTRACT, ALL REMAINING ALLOWANCE FUNDS WILL BE DEDUCTED FROM THE FINAL CONTRACT PRICE VIA CHANGE ORDER. THE ALLOWANCE IS NOT TO BE USED FOR THE CORRECTION OF ANY ERRORS OR OMISSIONS BY THE CONTRACTOR, OR FOR WORK ITEMS INCLUDED IN OTHER BID ITEMS.

ESTIMATED PROJECT QUANTITIES

Diameter	Length
12"	913'
15"	4,043'
18"	1,733'
21"	120'
24"	1,181'
27"	1,714'
30"	545'
33"	252'
42"	521'
48"	641'
54"	719'
66"	557'
72"	1,576'

DATE:	DRAWN BY:	US-30 STORM SEWER CLEANING & TELEVISING 2022			<div>0150030006000 Feet</div>	<div><div>N</div><div>W</div><div>E</div><div>S</div></div>
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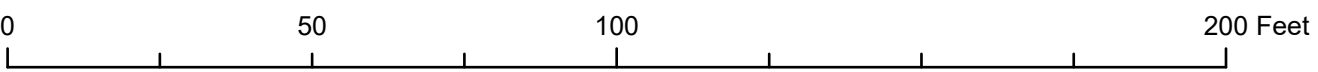
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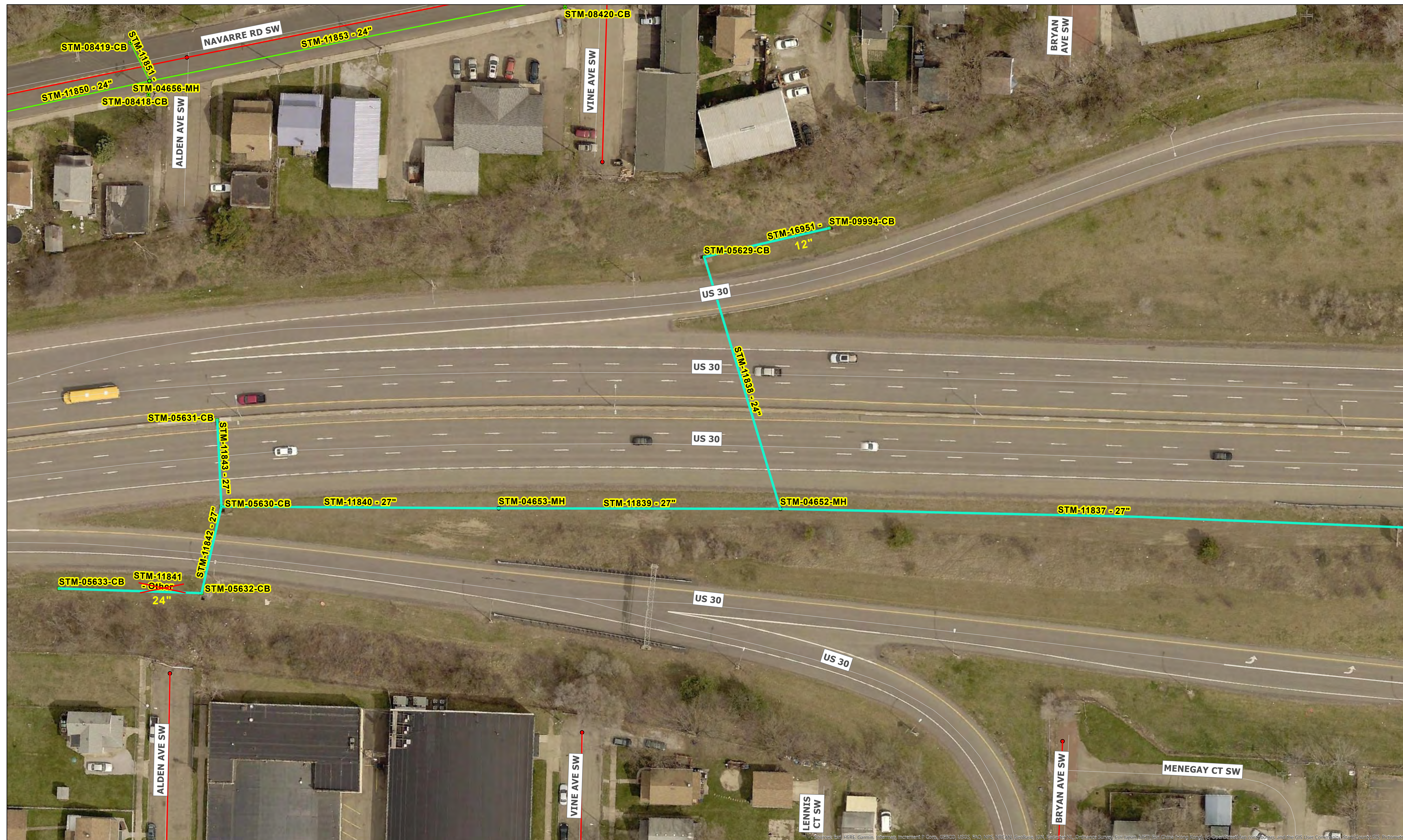


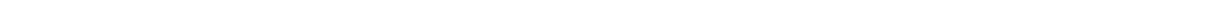

Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBasis, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), Swisstopo, Mapbox, OpenStreetMap contributors, and the GIS User Community, Stark County GIS, Pictometry

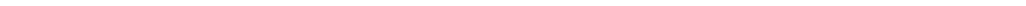

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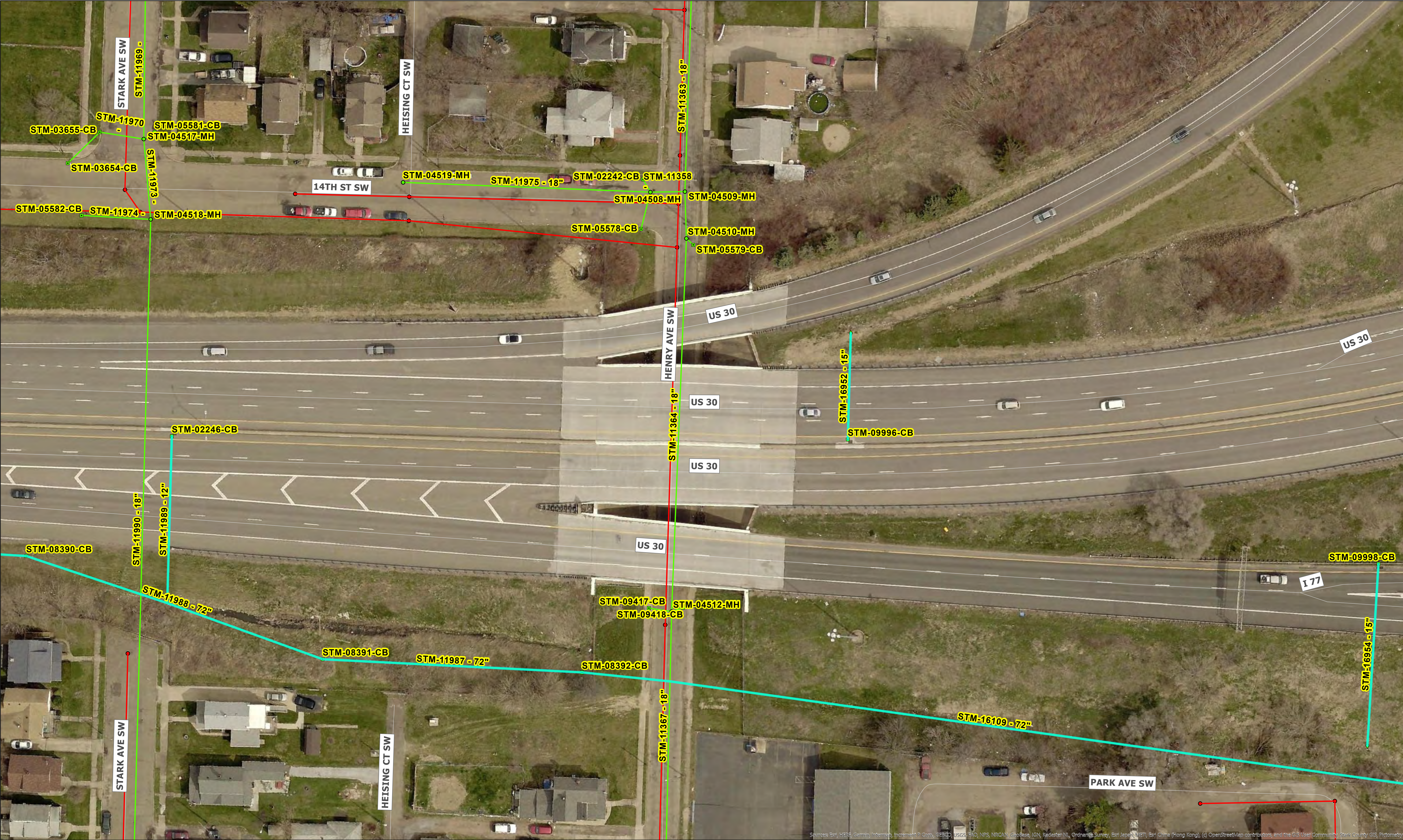


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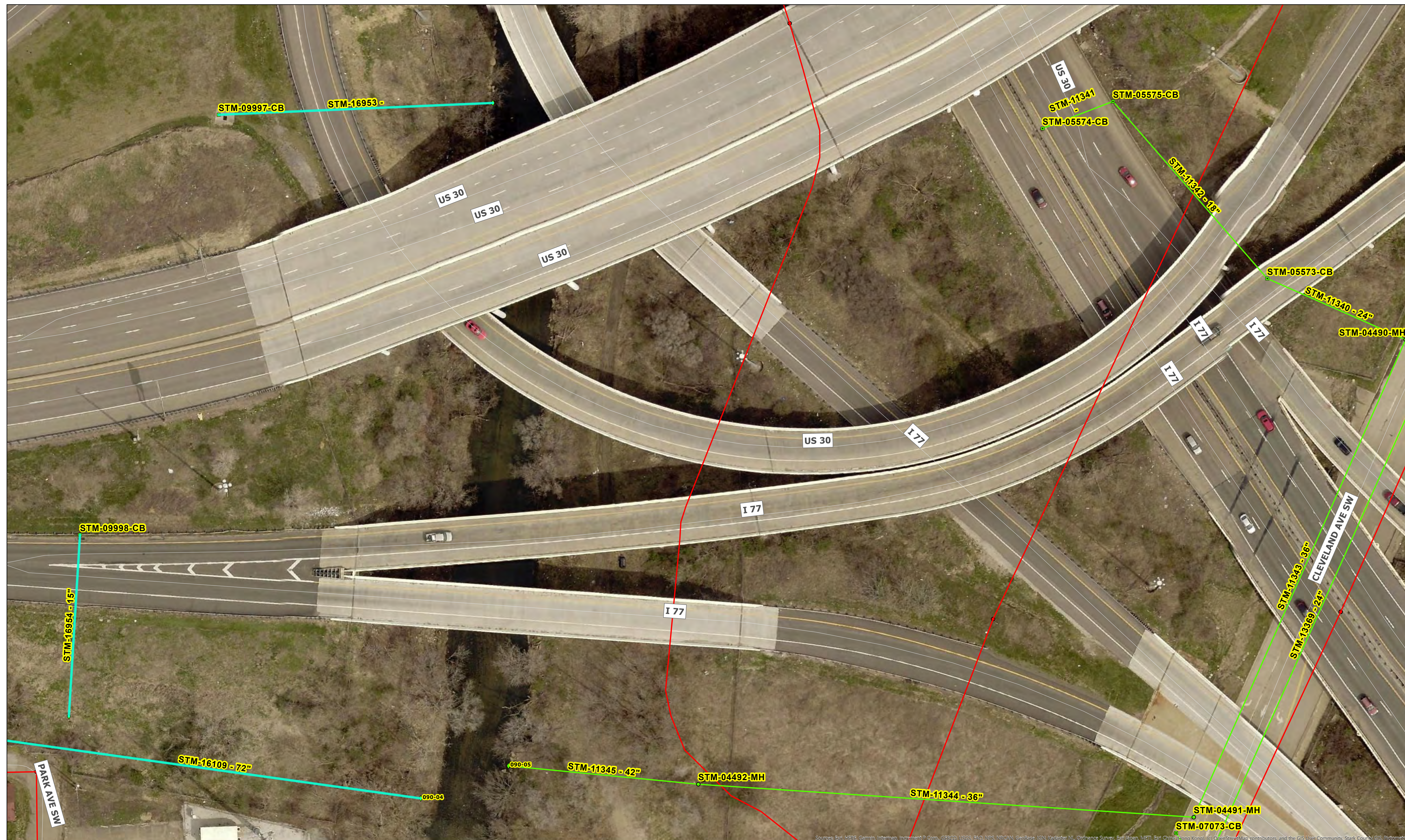
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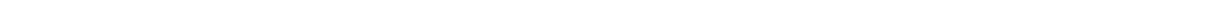

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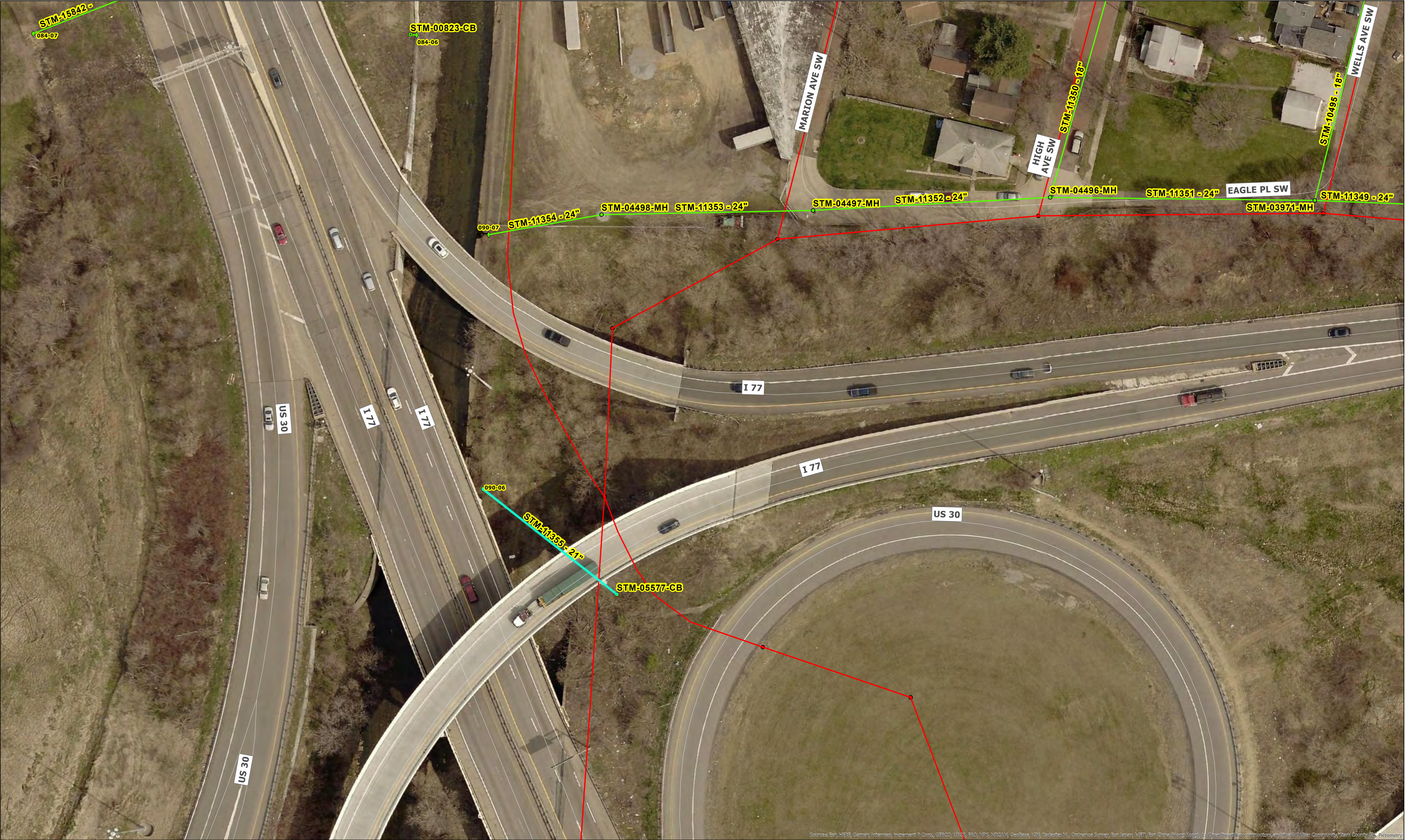


Sources: Esri, HERE, Garmin, Infarmap, Inc., Intermap, Inc., swisstopo, USGS, FAO, NPS, NRCAN, GEBCO, IGN, Kadaster NL, Ordnance Survey, Esri Japan (JETI), Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community, Stark County GIS, Photomaps

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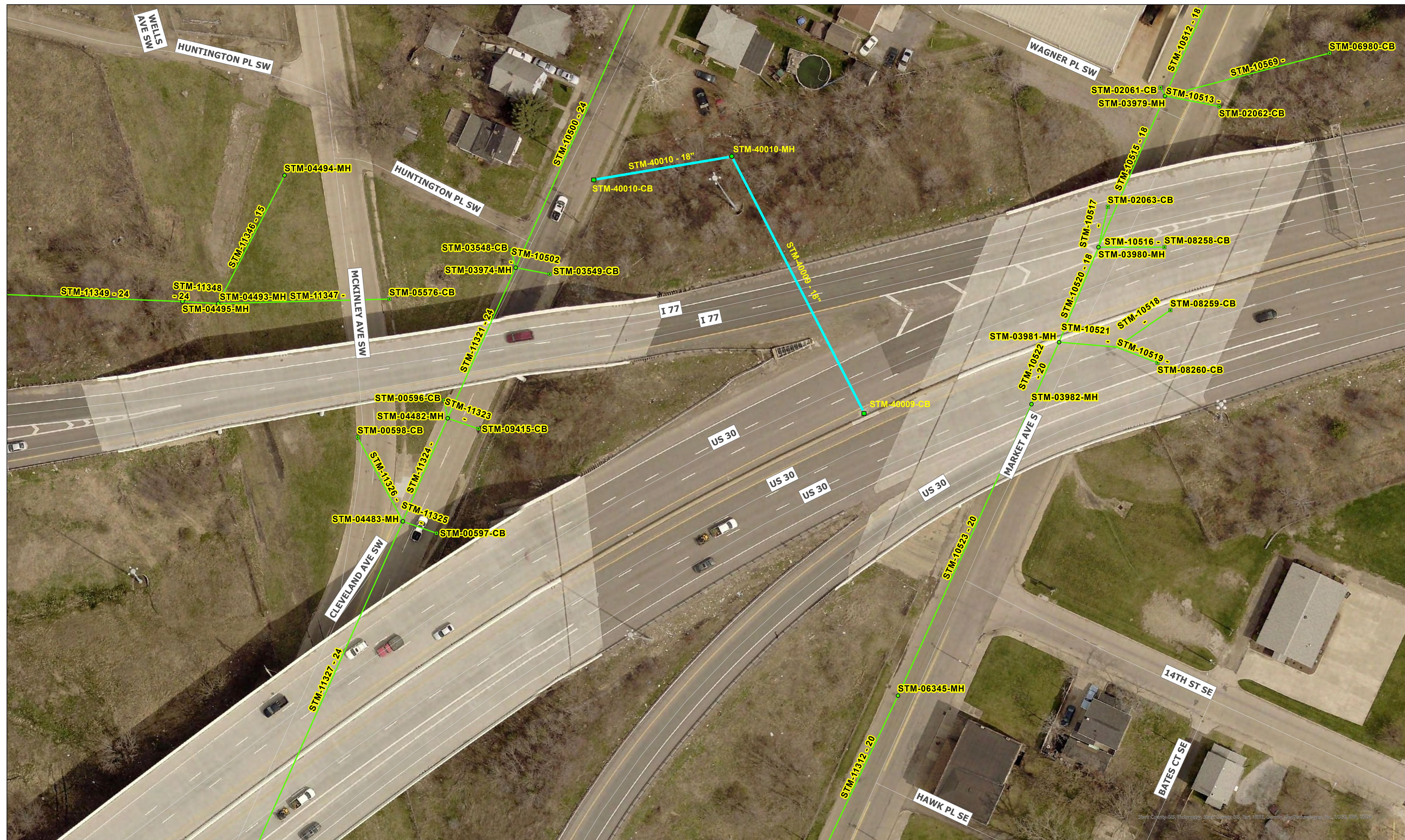




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Sources: BH, HERS, Garmin, Infarmat, Increment P Corp, GPRCO, USGS, SAO, NPS, NRGAM, GeoBasis, IGN, Yachester NY, Ordnance Survey, Esri, Japan, METI, Esri China (Hong Kong), OpenStreetMap contributors, and the GIS User Community, Stark County GIS, Pictometry

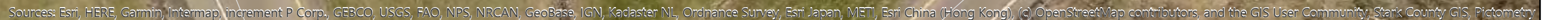
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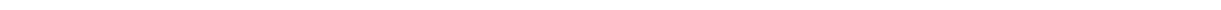



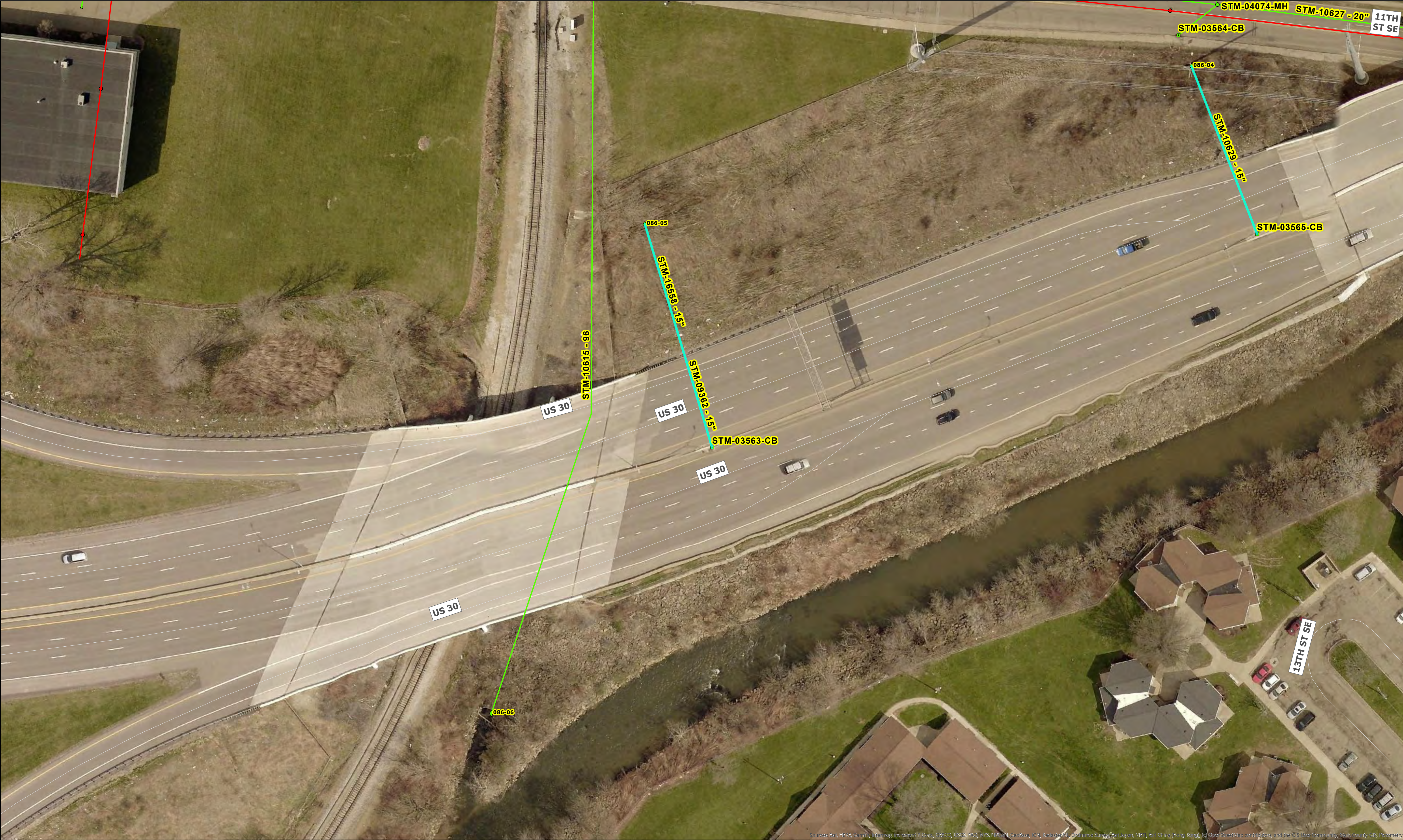
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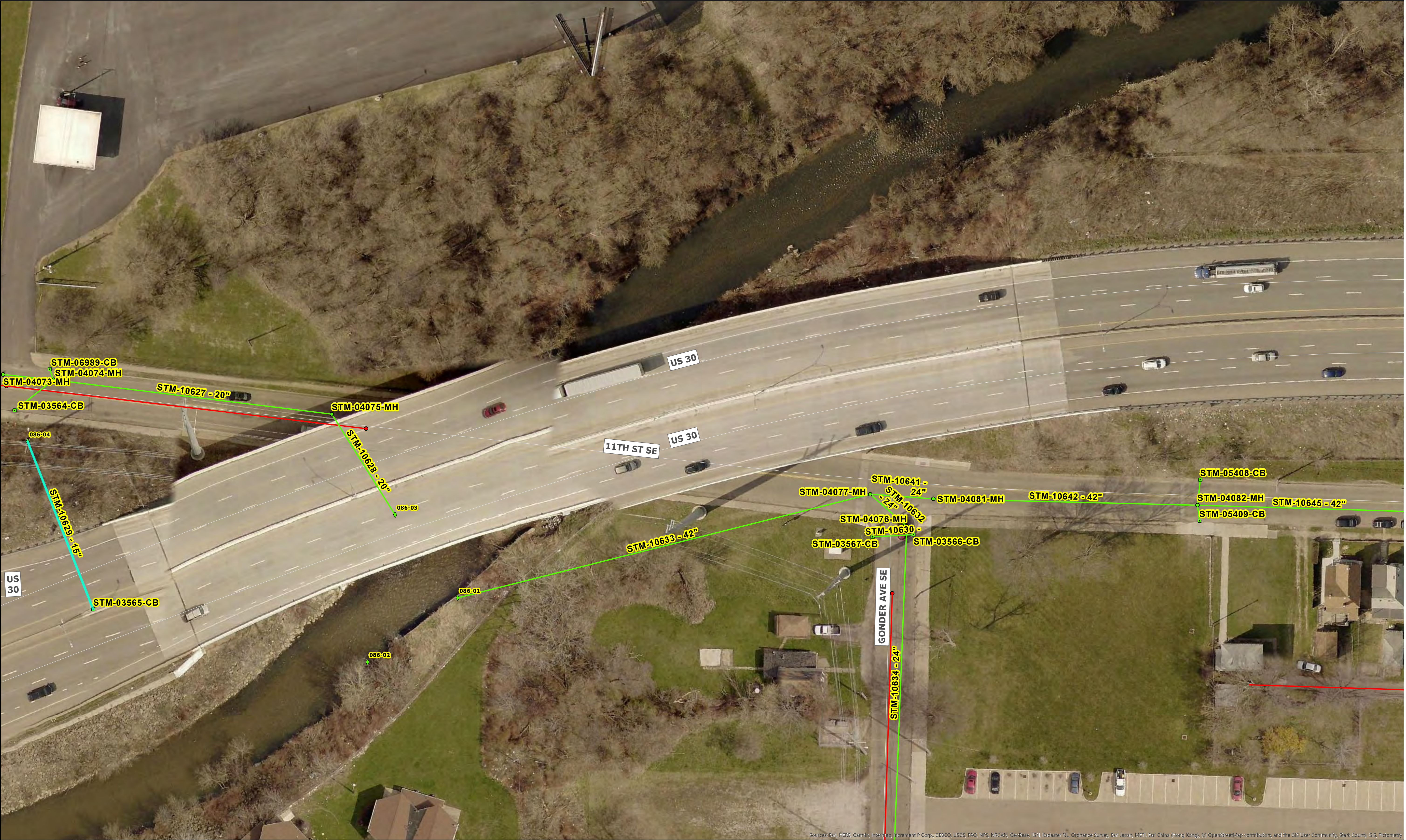
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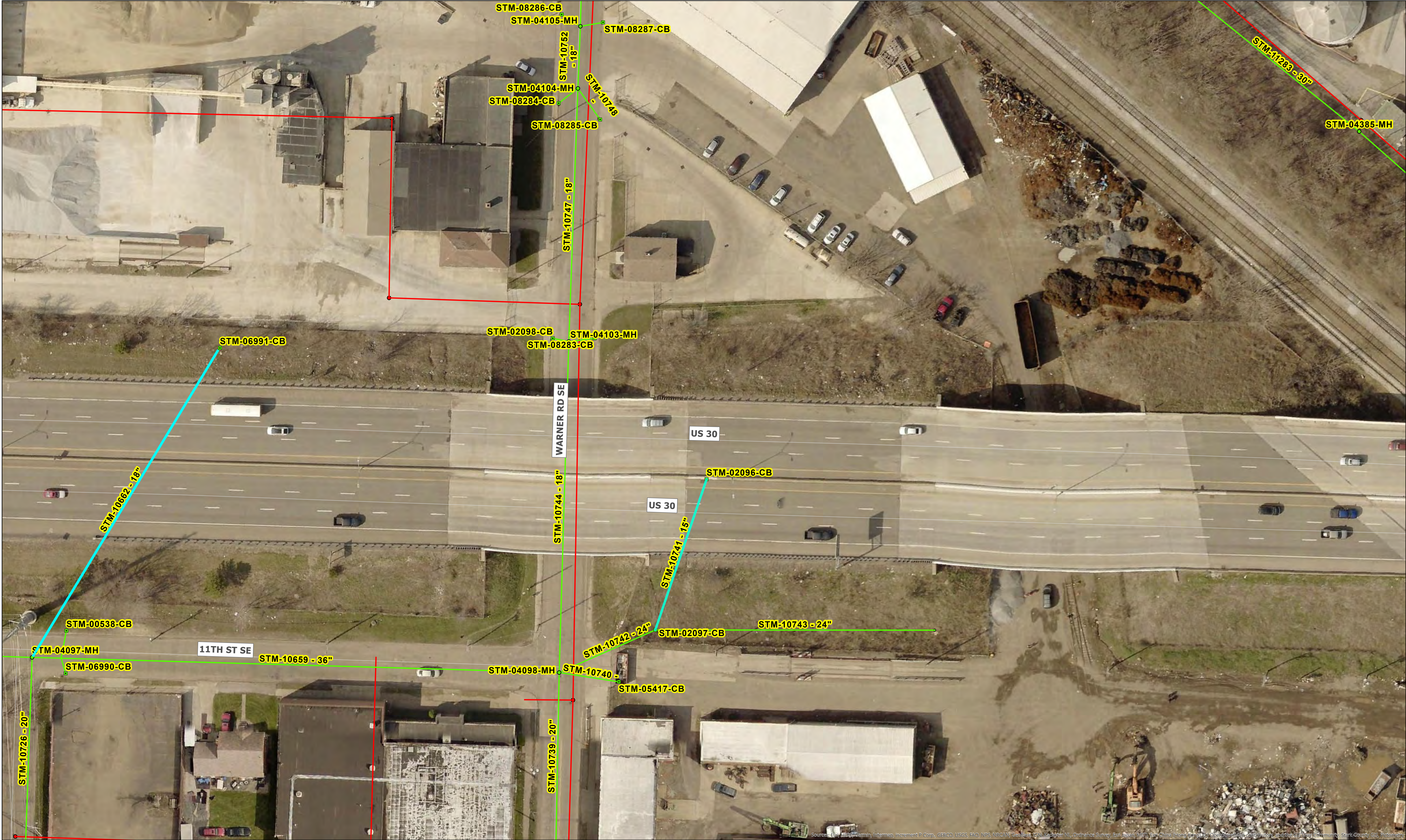


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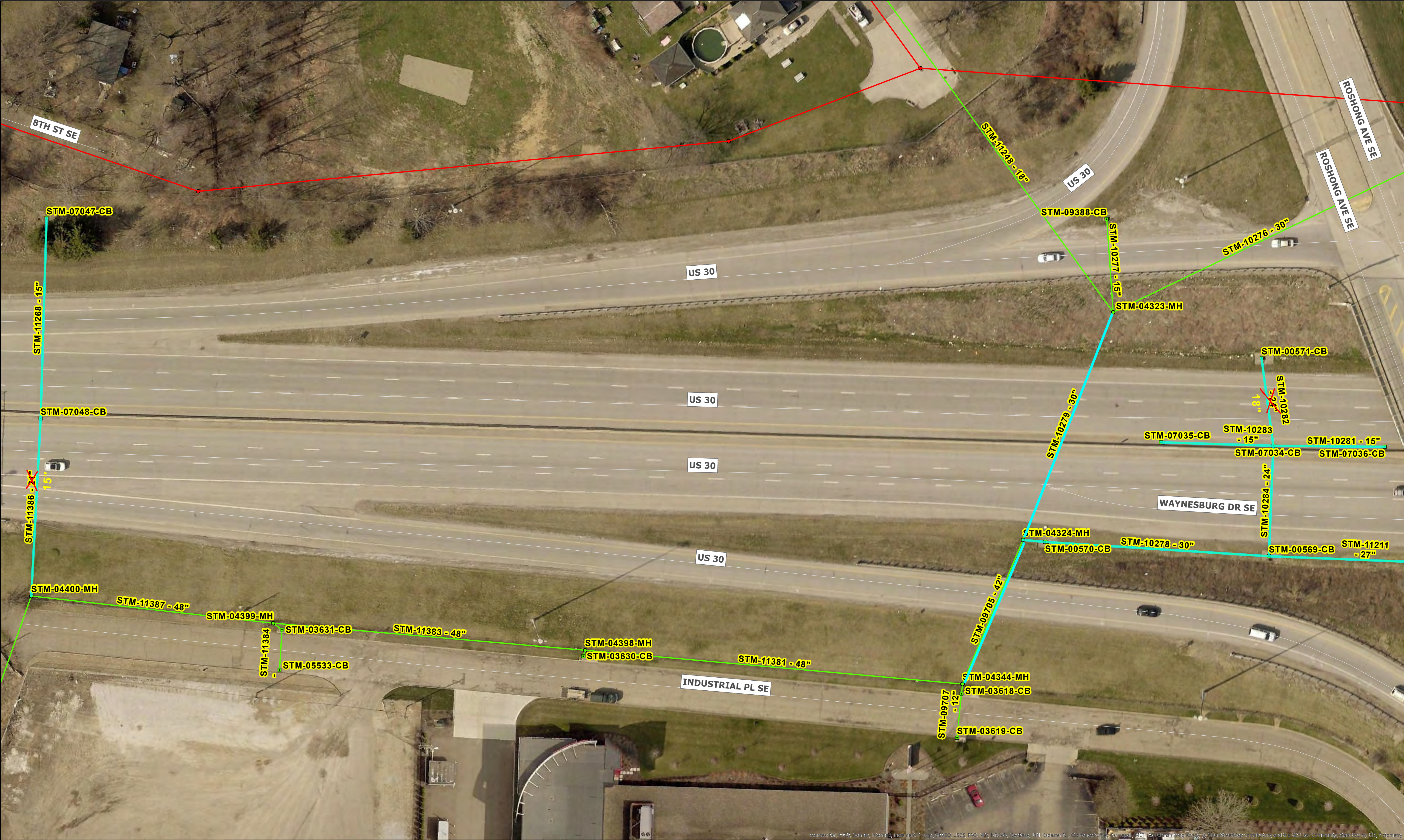


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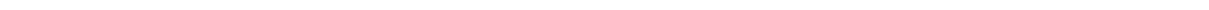

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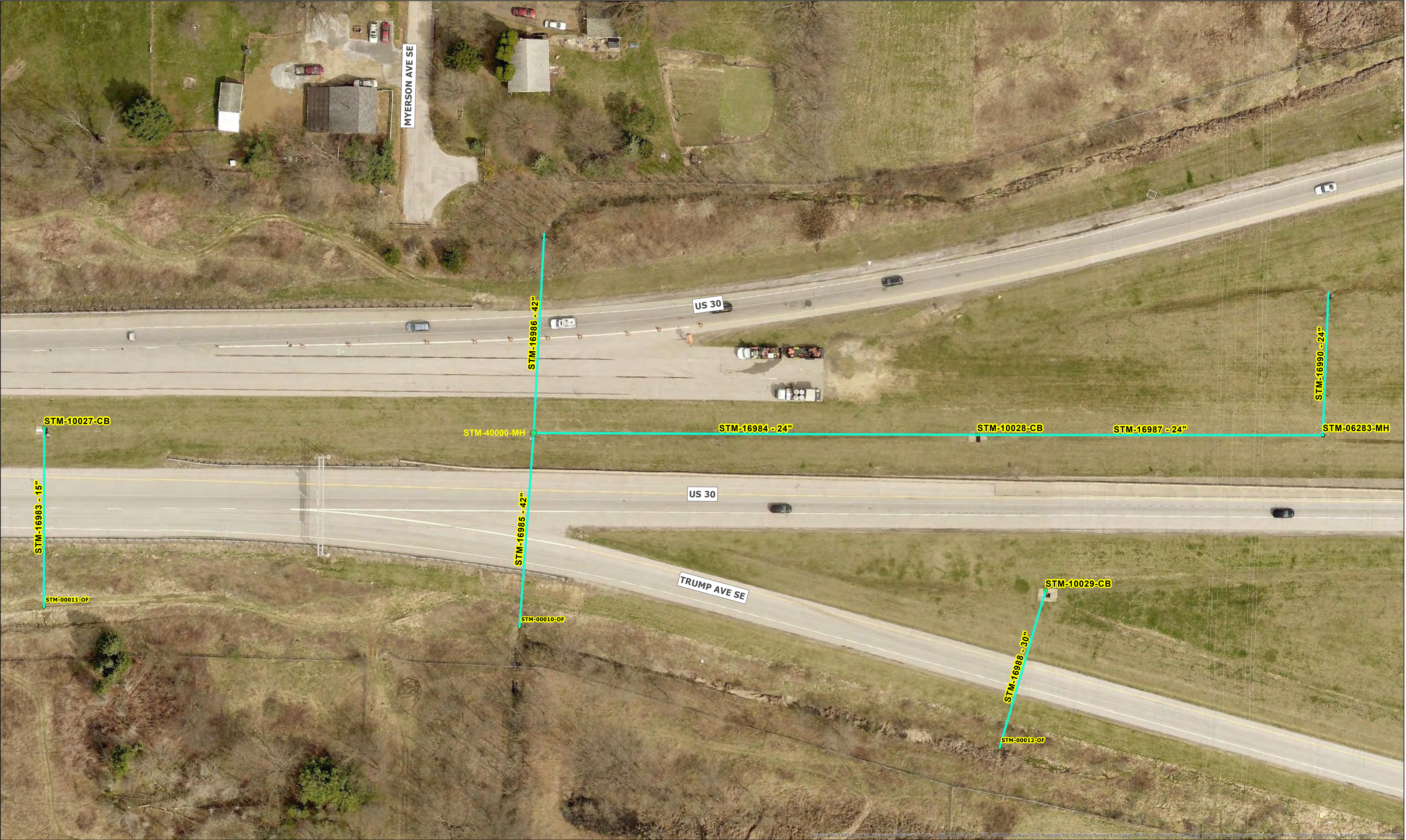
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Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NGA, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), Swisstopo, Mapbox Contributors, and the GIS User Community. Stark County, GA, Department of Transportation

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