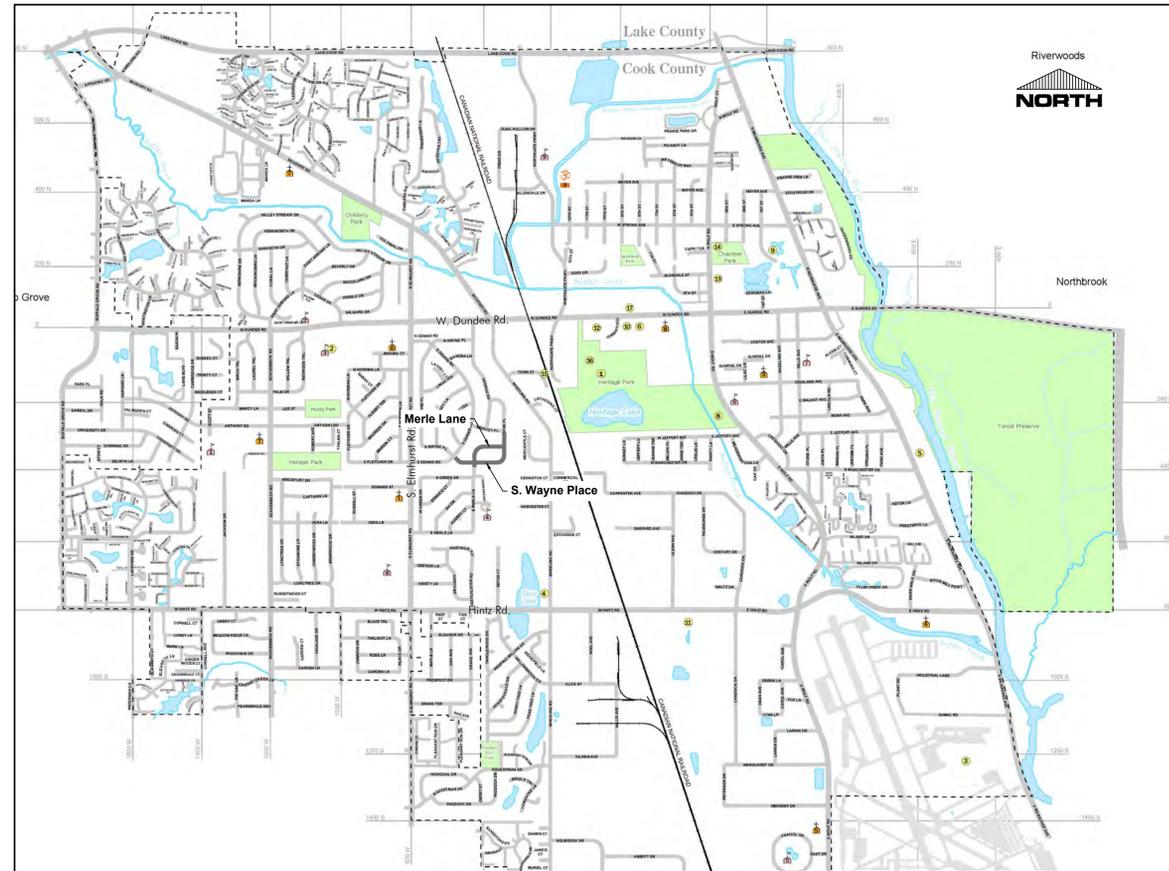


DUNHURST RELIEF STORM SEWER IMPROVEMENT PLANS DUNHURST SUBDIVISION

WHEELING, ILLINOIS
COOK COUNTY



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Existing Symbol	LEGEND	Proposed Symbol
	Storm Sewer Manhole	
	Catch Basin	
	Inlet	
	Flared End Section	
	Headwall	
	Area Drain	
	Sanitary Sewer Manhole	
	Clean Out	
	Storm Sewer	
	Storm Sewer Service	
	Perforated Underdrain	
	Sanitary Sewer	
	Sanitary Sewer Service	
	Combined Sewer	
	Force Main	
	Water Main	
	Water Main Service	
	Fire Hydrant	
	Valve Vault	
	Valve Box	
	B-Box	
	Well Head	
	Light Pole	
	Light Pole With Mast Arm	
	Traffic Signal	
	Traffic Signal With Mast Arm	
	Hand Hole	
	Fence	
	Guardrail	
	Pipe Bollard	
	Sign	
	Gas Valve	
	Gas Line	
	Electric Line	
	Overhead Utility Line	
	Fiber Optic Line	
	Electrical Pedestal	
	Electric Manhole	
	Guy Wire	
	Utility Pole	
	Telephone Pedestal	
	Telephone Manhole	
	Telephone Line	
	Cable TV Line	
	Cable TV Pedestal	
	Flagpole	
	Mailbox	
	Handicapped Parking Stall	
	Number of Parking Stalls	
	Curb & Gutter	
	Reverse Pitch Curb & Gutter	
	Depressed Curb	
	Retaining Wall	
	Curb Elevation and Gutter/Pavement Elevation	
	Pavement Elevation	
	Sidewalk Elevation	
	Ground Elevation	
	Top of Wall Elevation	
	Bottom of Wall Elevation	
	Open Lid Frame & Grate	
	Closed Lid Frame & Lid	
	Swale	
	Hardscape Flow	
	Softscape Flow	
	Contour Line	
	Wetland	
	Wetland Buffer	
	Normal Water Level	
	High Water Level	
	Flood Plain	
	Flood Way	
	Deciduous Tree	
	Coniferous Tree	
	Bush	
	Brushline	
	Soil Boring	
	Over Land Flow Route	
	Recommended Garage Hand With Driveway Slope	

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Illinois Prof. Design Firm #184-003152
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BENCHMARKS:
Village of Wheeling BM-7
Brass Disk, Stamped: USACOE Station
"Wheel-1", 1999 Located At NW Wingwall
Northgate Pkwy Bridge, ~530' N of Dundee Rd.
Elevation = 649.184 (NAVD88)

Village of Wheeling BM-22
2.5" Aluminum Disk Stamped Village of Wheeling -
Survey Marker Located S. Side of Hintz Rd. Bridge,
~500' W. of Wheeling Rd
Elevation = 649.119 (NAVD88)

Site Benchmark:

Northeast bolt on fire hydrant located 5 feet ± of
the north property line on the east side of
Schoenbeck Road.

Elevation = 668.47



Know what's below.
Call before you dig.

Note:
Call 811 at least 48 hours, excluding
weekends and holidays, before you dig.



Date	Revision
04-17-2020	1
04-01-2020	2

Date	Revision
04-17-2020	1
04-01-2020	2

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Illinois Professional Design Firm License No. 184-003152
www.haegerengineering.com

TITLE SHEET
**DUNHURST RELIEF STORM SEWER
IMPROVEMENT PLANS**
WHEELING, ILLINOIS

Project Manager: KML
Engineer: KML
Date: 02-21-2020
Project No. 19-185
Sheet **C1.0** / C9

VILLAGE OF WHEELING NOTES

GENERAL NOTES

- Underground construction shall comply with the applicable ordinances and requirements of the Village of Wheeling and the Illinois Department of Transportation ("Specifications for Road and Bridge Construction", latest edition, and the Standard Specifications for Water and Sewer Main Construction in Illinois, latest edition, published by the Illinois Environmental Protection Agency (I.E.P.A.) except for conflicts with the Metropolitan Water Reclamation District of Greater Chicago (M.W.R.D.G.C.) Sewer Permit and Manual Processes Ordinance. In case of a conflict between the Village of Wheeling and the Illinois Department of Transportation ("Specifications for Road and Bridge Construction", latest edition, in force of a conflict, the Village standards and requirements shall govern.
- The contractor shall restore all existing utilities, dimensions, and elevations in the field prior to the commencement of construction of the improvements or proposed work. All existing utility locations on the plans have been shown based on best available information. Notify the engineer immediately if discrepancies are found.
- All elevations are based upon NAVD 88 Datum.
- The contractor shall notify the Village of Wheeling Engineering (847) 229-4600 and Plumbing Inspector (847) 459-2620 two (2) business days prior to the start of construction. The Contractor shall contact J.U.L.I.E. (800) 892-0123 at least 48 hours prior to starting work. All other agencies shall also be notified as required. The contractor shall restore all disturbed off-site areas to at least a condition that existed prior to construction at the cost of the contractor.
- All existing field drainage tiles encroached or damaged during construction are to be restored to their original condition, properly resealed, and/or connected to the storm sewer system.
- The contractor and engineer shall maintain records for "as built" drawings which shall be submitted to the Village Engineer at the completion of the project.
- The contractor shall provide video tape(s) or still pictures as required by the Village Engineer prior to beginning work.
- One set of stamped approved plans shall be on site at all times during construction of the project.
- All work shall be resubmitted to the Engineer at least 48 hours in advance and set up the necessary and proper inspection for all work to be performed.
- All unpaved areas of right-of-way are to be sodded (salt-tolerant) where disturbance exceeds 18-in in width. Where restoration is less than 18-in in width, restoration shall be salt-tolerant seed and erosion control blankets at a rate of 100 lbs per 1000 sq ft (6) inches deep and requirements shall govern.
- Storm and sanitary sewer lines shall be cleaned of construction debris and silt prior to Village inspection.
- The contractor shall maintain and keep at the job site, an up to date set of "Record Drawings" showing all changes from the original plans. The location of all service connections for sanitary sewer, storm sewer and water mains shall be clearly marked and furnish the Village Engineer with the location of all service connections tied dimensions. The elevation of all rims and inverts shall be verified by the contractor and shown on the "Record Drawings". The contractor shall deliver the "Record Drawings" to the Engineer at the conclusion of the project, prior to any final inspections. The Engineer will transfer the information to the original plans by recording the Village Engineer's notes and furnish the Village Engineer with three (3) sets of complete "Record Drawings", and, if required, one (1) set of reproducible mylar.
- It shall be the responsibility of the Developer (Owner) and the Contractor to abide by, adhere to, and perform all work in accordance with the requirements, specifications, standards, practices, policies, and codes of the Village of Wheeling, which includes but is not limited to labor, materials, procedures, and safety.
- Approved "B-boxes" shall be submitted to the Engineer for review and approval. All work shall be submitted to the Village Engineer, in writing, with written approval by the Village Engineer received prior to beginning said work. All materials and construction, whether implicitly or explicitly stated or covered within the requirements, codes, or specifications, shall be approved by the Village Engineer, prior to commencing the installation and construction of the project.
- All obstructions that are not approved by the Village and which currently exist in the right-of-way shall be removed, which include all rocks and boulders.
- OSHA rules, regulations, and requirements shall be strictly adhered to during the execution of all work to be completed in contact with potable water.
- Contractor shall pay special attention to the existing street light electrical conduit. If electrical conduit is damaged, repairing only damaged portion of conduit is not allowed; the entire section of electrical conduit between the nearest poles shall be replaced at the cost of the contractor.

GENERAL UNDERGROUND UTILITIES

- Trench backfill shall be provided under and within two feet (2') of all existing and proposed back of curb or if non-existent, the edge of pavement.
- All manholes and similar structures must be a minimum of 48" diameter, and valve vaults must be a minimum of 60" diameter, unless approved otherwise.
- For modification or repair of all sewers and addition or repair of sewer clean outs; non-shear couplings shall be used in connection with sewer pipe approval from Village Engineering.
- A minimum ten feet (10') horizontal separation shall be maintained between watermain and sewer or drain lines unless precluded by local conditions. When the watermain is located closer than ten feet (10') horizontally or the invert of the watermain is located closer than eighteen inches (18") vertically above the crown of any sewer structure, the sewer shall be installed with a minimum of 18" vertical separation to watermain standards and shall be pressure tested to assure water tightness in accordance with the Illinois Environmental Protection Agency (I.E.P.A.) requirements.
- When a watermain crossing over a sewer or drain line is closer than eighteen inches (18") vertically above the crown of the sewer structure, then that sewer or drain line shall be constructed according to the requirements listed in item 4) above.
- If the watermain passes under a sewer or drain line, the following conditions shall be met: a vertical separation of eighteen inches (18") between the invert of the sewer or drain line and the crown of the watermain shall be maintained for the support provided for the drain pipe's depth upon any moving or settling, rupture or breaking, and sewer or drain line shall be constructed as described in item 4) above.
- The cost of all required testing of underground utilities shall be incidental to the construction cost of the same.
- The contractor shall mark location of the ends, if necessary, of any sanitary, water, and storm services with buried 4" x 4" wood markers of ground and ground grade. The markers shall be painted blue, yellow and green respectively, with appropriate signs attached stating "Caution: B-box - Do not remove until landscaping is complete".
- When connecting to an existing sewer main by means other than an existing tee, tee, or an existing manhole, the sewer shall be cut into saw-cut by proper tools ("sewer-tap" machines or similar) with proper installation of hub-wye tees or hubtee saddles and proper support.
- Sewer connections to an existing structure shall be machine cored.
- A flexible rubber boot shall be used at all sanitary sewer manhole penetration connections.
- Electric concrete sections shall be used on all manholes, catch basins, vaults, etc. unless approved otherwise for the Village of Wheeling.
- All sewer construction requires stone bedding 1/4" to 1" in size, (I.D.O.T. equivalent CA-11, CA-13) with a minimum thickness equal to 1/4 the outside diameter of the sewer pipe, but not less than four (4) inches, nor greater than eight (8) inches.
- All sewer construction shall conform to the approved permit plans unless revisions have been approved by the Village, as well as any and all other necessary agencies.
- Structures shall have a maximum of twelve inches (12") of adjustment with any combination up to a maximum of three (3) rings.
- Protect and/or cover all pipes and underground structures until final grading, paving, and landscaping are complete.
- Trench Backfill material for both paved areas and parkways shall be CA-6, Grade 8. For detail, see Trench Backfill Standard on the Typical Details. Density Test of compacted CA-6 will be performed by a consultant retained by the contractor. If the density requirement (95% modified proctor density) is not met, further trench backfilling will not be allowed until CA-6 is compacted to Village requirements. Contractor is responsible for providing modified proctor density data of CA-6 and the cost of this work shall be included in the cost of water main.
- Throughout all phases of construction, including subsurface work, and until the final acceptance, the contractor shall keep the site clean and free from rubbish and debris. The contractor shall also abate dust nuisance by cleaning, sweeping and sprinkling with water or other means as necessary. Whenever requested by the Engineer, the contractor shall furnish and operate a self loading motor sweeper with spray nozzle at least once each working day for the purpose of keeping paved areas acceptably clean wherever construction, including restoration, is directed by the Engineer otherwise.
- Curb and Gutter, Sidewalk, Driveway and Sodding Shall be restored within four weeks after all service lines are made to each street. If temperature is above 80 degrees farenheit, sodding should be delayed until temperature is under 80 degrees. Watering of new sod shall be performed per IDOT standard specifications for Road and Bridge Construction, article 252.08.
- Contractor shall ensure that access by Mail Delivery, Garbage Removal School Buses and Emergency Vehicles on public streets is maintained at all times.

PAVING

- Base course shall be aggregate base course, type B (crushed limestone, grade 8), conforming to the standard specifications (see plans for thickness).
- Surface course and binder course shall be bituminous concrete. Class 1 hot mix (see plans for thickness).
- Curb and gutter, manhole curb, and sidewalk shall be Portland Cement concrete with an entrainment of five (5) percent, plus or minus one (1) percent. A six (6) inch bag mix shall be used. Maximum allowable slump is three (3) inches. Curing compound shall be applied after finishing. Curb backfill shall be on incidental to the construction of the curb. Location of water and sewer service lines shall be clearly marked on all new construction.
- A 3/4 inch fiber expansion joint shall be installed when the curb abuts a sidewalk or existing curb.
- Curb and gutter and barrier curb shall have sawed contraction joints at maximum intervals of twenty (20) feet and 3/4 inch fiber expansion joint at maximum intervals of sixty (60) feet.
- Subgrade shall be finished to a 0.1 feet of design subgrade elevations by the earthwork contractor. Fine grading for pavements and sidewalks shall be the responsibility of the paving contractor.
- The base course shall be primed at the rate of 0.25 to 0.50 gallons per square yard with a liquid asphalt conforming to I.D.O.T. standards and shall be appropriate for prevailing weather conditions. Prime coat and cleaning of the existing surface shall be considered as incidental to the contract work.
- Prior to placement of any pavement, including curbs, the subgrade shall be proof rolled with a fully loaded tandem axle dump truck (minimum 20 tons). Proof rolling shall be witnessed by the materials consultant and the Village Engineer. Proof rolling shall be required on the base material as well. The density of the subgrade base and base material, as well as the bituminous material, shall also be tested by the materials consultant. The test results shall be provided to the engineer for his use in determining the adequacy of the pavement design.
- All structures such as manholes, valve boxes, etc. shall be adjusted to meet the new surface elevation. Furthermore, structures such as manholes, valve boxes, etc. that lie within Portland Cement Concrete slab and driveways shall be bowed out by means of a cut out area with full depth joints.
- All pavement, walk, and curb removal shall be accomplished by saw cutting prior to removal.
- All paved areas such as driveways shall have a two (2) inch diameter galvanized steel conduit buried beneath them at a depth of 24" (minimum) for future street light cable(s). The conduit shall extend a minimum of three (3) feet beyond the back of curb or edge of the pavement if no curb exists.
- All drives in the right-of-way of public streets and in industrial areas truck loading areas shall be a minimum of

- eight (8) inch thick portland cement concrete on a four (4) inch compacted granular base.
- Saw existing curb at limit of the work and repair with depressed curb as required. Drill and dowel all new curb, including depressed curb, to existing as required.
- All driveway material thicknesses shall meet the minimum pavement standard requirements of the Village of Wheeling.
- Driveway apron removal and replacement shall include the installation of a truncated dome handicapped sidewalk ramp on both sides of the apron unless otherwise approved by the Village Engineer.
- All dimensions for curbs are to back of curb, unless otherwise specified.
- The use of cold-patch for temporary pavement patching shall be approved by the Village Engineer prior to placement.

STORM SEWER

- All storm sewer pipes shall be reinforced concrete pipe conforming to ASTM C-76 Class IV with confined O-ring gasketed joints in compliance with ASTM C-361 or Tylox Super Seal gasket conforming to ASTM C-361.
- Elevations of flared end sections shall be interpreted at the invert of the flared end section.
- All storm structures are to have open (grate) lids unless specified as having closed lids (C.L.).
- Rim grades for storm sewer structures located within the curb and gutter are edge of pavement elevations.
- All sump pump and drain tile discharges shall be routed to the storm sewer system. Sump pump service connections shall be four (4) inch PVC SDR 26 conforming to ASTM D2751 or ASTM D3034 at a minimum slope of 2% and shall be air gapped. Minimum cover shall be two (2) feet, wherever possible.
- All downspouts, footing drains, and outside drains shall discharge to the storm sewer or over ground as approved by the Village Engineer.
- Minimum diameter of storm sewer shall be 12" unless approved otherwise.
- No storm water shall be discharged to the sanitary sewer system.
- Any storm sewer damaged during the work shall be repaired with full sized permanent or temporary storm sewer pipe. Use of temporary under-sized storm sewer pipe is strictly prohibited.

WATER MAIN

- All water mains shall be pressure tested per requirements of the Village of Wheeling. Method shall be a leakage test of 150 p.s.i. held for 2 hours. 200 p.s.i. on fire suppression line.
- All water mains shall be chlorinated per the requirements of the Village of Wheeling.
- All water mains to be ductile iron pipe per ANSI A21.51 (AWWA C151), Class 52, with "push on" or mechanical joint as required by the Village Engineer. All Ductile Iron Pipe to be cement lined per ANSI A21.4 (AWWA C104).
- The minimum cover for watermain shall be 5.5 feet from finished grade to top of main (6 ft. max. unless approved otherwise by the Village Engineer).
- All water services shall be installed per the Village Standard.
- Water service and fire suppression systems shall be made and installed by a licensed plumber, in accordance with the Illinois State Plumbing Code, unless otherwise specified.
- Fire sprinkler and water lines must be pressure tested and chlorinated from the point of connection at the existing watermain to the valve inside the building. Contact the Village of Wheeling Public Works Utility Division (847-229-4600) at least 48 hours prior to tap and inspections.
- The Village of Wheeling Plumbing Inspector (847) 459-2620 and Engineering Inspector (847) 229-4600 shall be contacted at least 48 hours prior to all water service work.
- All B-boxes shall be 1-1/2" Mueller or Ford telescopic B-box with "WATER" imprinted on the lid of the box and a brass pentagon plug.
- All fastener hard ware (i.e. nuts, bolts, and washers) associated with fittings shall be stainless steel.
- All fittings shall be restrained by thrust resistant wedge, retainer glands, manufactured with torque limiting twist off nuts.
- All brass fittings for services lines shall be "Lead Free" in accordance with AWWA C800, latest revision, made from UNS/CDA 89520 and UNS/CDA 89833. Brass alloy UNS/CDA 83600 is not acceptable for any brass component in contact with potable water.
- Any lead caulking encountered at existing service line connections to the old watermain shall be removed and properly disposed of.

IEPA NOTES

Sewers crossing water mains shall be laid to meet the following specifications:

- Horizontal Separation:
 - Whenever possible, a water main must be laid at least ten feet horizontally from any existing or proposed drain or sewer line.
 - Should local conditions exist which would prevent a lateral separation of ten feet, a water main may be laid closer than ten feet to a storm or sanitary sewer provided that the water main invert is at least eighteen inches above the crown of the sewer, and is either in a separate trench or in the same trench on an undisturbed earth shelf located to one side of the sewer above.
 - If it is possible to obtain proper horizontal and vertical separation as described in 1 and 2 above, both the water main and sewer must be constructed of pipe material which would conform to water main standards and be pressure tested to assure water tightness before backfilling.
- Vertical Separation:
 - Whenever water mains cross house sewers, storm drains or sanitary sewers, the water main shall be laid at such an elevation that the invert of the water main is eighteen inches above the crown of the drain or sewer. This vertical separation must be maintained for that portion of the water main located within ten feet horizontally of any sewer or drain crossed. This must be measured as the normal distance from the water main to the drain or sewer.
 - Where conditions exist that the minimum vertical separation set forth in 1 above cannot be maintained, or it is necessary for the water main to pass under a sewer or drain, one of the following two measures must be taken:
 - The water main shall be installed within a PVC carrier pipe and the carrier pipe shall extend on each side of the crossing until the normal distance from the water main to the sewer or drain line is at least ten (10) feet.
 - The involved sewer or drain shall be constructed of pipe material which would conform to water main standards until the normal distance from the water main to the sewer or drain line is at least ten (10) feet.
 - In making such crossings, center a length of water main pipe over the sewer to be crossed so that the joints will be equidistant from the sewer and as remote there from as possible. Where a water main must cross under a sewer, a vertical separation of eighteen inches between the invert of the sewer and the crown of the water main shall be maintained, and the water main shall be supported by means to support the larger sized sewer lines to prevent their settling and breaking the water main.
 - The horizontal and vertical separation between water service lines and all sanitary sewers, storm sewers, or any drain should be the same as for water mains, detailed above, except that when minimum horizontal and vertical separation cannot be maintained, water pipe as described under Vertical Separation above, may be used for sewer service lines.

IEPA CLEAN CONSTRUCTION AND DEMOLITION DEBRIS (CCDD) NOTES

- CCDD Compliant Material Disposal:
- Work shall be performed in compliance with the Illinois Environmental Protection Agency (IEPA) guidelines in effect at the time of construction.
 - The Contractor will be required to make all arrangements for coordination and submission of the testing reports and certification documents by their chosen CCDD disposal facility. Written confirmation of preliminary approval must be provided from the disposal facility and confirmed by the Village as acceptable.
 - All surplus, clean material generated from the Contractor's activities must be disposed of at an IEPA permitted CCDD facility. The Contractor is responsible for providing documentation to the Village for each load hauled off-site showing the quantity of material and the location the material was disposed of.
 - The removal and disposal of CCDD compliant trench spoils for the installation of the water main shall be considered incidental to the cost of the pipe.
 - No extra compensation will be allowed to the Contractor for any expenses incurred complying with the requirements including, but not limited to: delays, inconvenience, or interruptions in the work resulting from compliance with these requirements.

CCDD Non-Compliant Material Disposal:

- Work shall be performed in compliance with the Illinois Environmental Protection Agency (IEPA) guidelines in effect at the time of construction.
- A quantity of 50 CY has been established in the bid proposal to address areas of possible non-compliant material. If such materials are found during construction, the Contractor shall notify the Village immediately. Suspect materials are to be set aside on non-permeable tarp/plastic, etc. and covered until they may be assessed. If, after assessment the material is found to be non-compliant, it shall be loaded onto trucks for proper landfill disposal off-site. Disposal documentation will be provided by the Contractor to the Village prior to any applications for payment being requested.
- The Village will provide a third party testing company to sample and analyze discovered suspect non-compliant material. After receipt of the analysis report, the Owner will determine the probable limits of contamination and the Contractor will be required to establish a material quantity. Work shall include all labor, equipment materials, trucking, re-handling, etc. as required to stockpile and dispose of material, whether compliant or not. Only material determined to be non-compliant shall be paid for at the provided unit price. Re-handling and disposal of material determined to be compliant shall be incidental to the water main pipe installation.

SUPPLEMENTAL NOTES

Note: In case of a conflict, contradiction, or discrepancy between the Village of Wheeling Notes or Village of Wheeling details and the Supplemental Notes, the Village of Wheeling Notes/Details shall apply, unless otherwise approved by the Village of Wheeling Engineer.

GENERAL NOTES

- Definition of Terms:
 - "Owner" shall mean the person or entity with which Haeger Engineering, LLC has been contracted with to prepare the Plans and Specifications.
 - "Engineer" shall mean Haeger Engineering, LLC.
 - "Contractor" shall mean the persons or entities responsible for performing and constructing the

work described in the Plans, Specifications, and other Construction Documents including but not limited to labor, materials, tools, equipment, and other incidentals necessary.

- "Plans and Specifications" shall mean the Engineering Drawings and any Specifications prepared by Haeger Engineering, LLC, the Engineer.
- "Jurisdictional Agency" shall mean any local, municipal, county, township, state or federal entity of government or other entity having jurisdiction of some aspect of the project from whom approval, permit and/or review and approval was required.
- The Specifications governing this project are as follows:
 - All applicable Village/City and other applicable Jurisdictional Agency Ordinances, Codes, Regulations, Requirements, Policies, Specifications, Standards, etc.
 - Any and all applicable rules, regulations, ordinances, codes, policies, specifications, standards, etc. of the Illinois Department of Transportation (IDOT) "Standard Specifications for Road and Bridge Construction", latest edition and any subsequent "Supplemental Specifications and Recurring Special Provisions" as well as any applicable IDOT Highway Standards. Hereafter these items shall be collectively be referred to as the "IDOT Standard Specifications".
 - Water Main, Storm Sewer, and Sanitary Sewer construction shall conform to the "Standard Specifications for Water and Sewer Construction in Illinois", latest edition.
 - Soil Erosion and Sedimentation Control shall conform to the Illinois Environmental Protection Agency (IEPA) "Illinois Urban Manual" (IUM), latest edition and "Illinois Procedures and Standards for Urban Soil Erosion and Sedimentation Control", latest edition.
 - Traffic Control shall conform to the "Manual of Uniform Traffic Control Devices" (MUTCD), latest edition, as well as the latest edition of the "Illinois Supplement to the MUTCD", and IDOT "Quality Standard for Work Zone Traffic Control Devices", latest edition.
 - All handicap accessibility items shall conform to the Illinois Accessibility Code (IAC), latest edition.
 - General Notes and Specifications contained herein or elsewhere as a separate document.
- If a conflict, contradiction, or discrepancy occurs between any of the above Specifications or the more stringent requirements shall apply, unless directed otherwise by the applicable Jurisdictional Agency.
- The Plans and Specifications shall be included as part of the Contract Documents.
 - All Contractors shall carefully examine the Plans and Specifications, and other Contract Documents prepared for the work. They shall visit the site of the work and acquaint themselves with the conditions in order to provide the work in accordance with the Plans and Specifications. They shall not be allowed extra compensation by reason of any unforeseen difficulties or obstacles which the Contractor could have discovered or reasonably anticipated or inferred prior to bidding or start of construction.
 - The Contractor shall be covered by the Plans and Specifications or other Contract Documents is not sufficiently detailed or explained, a Request For Information (RFI) Form shall be submitted to the Engineer for further explanations and drawings as may be necessary to clarify the point in question prior to the contract award. It is the intention of the Contract Documents to provide the Contractor with the information necessary to complete the work. If any additional soils data is needed to confirm the Contractor's opinions of the subsurface conditions, this shall be done at the Contractor's expense. The Contractor shall obtain the Owner's written authorization to access the site to conduct a supplemental soils investigation. Any bracing, sheeting, dewatering or special construction methods deemed necessary by the Contractor in order to provide the work shall be considered incidental to the Contract and no additional compensation will be allowed.
 - Should any apparent errors, omissions, discrepancies or conflicts be discovered on the Plans, Specifications, Quantities or other Contract Documents by the Contractor, whether prior to or after the award of the contract, the Engineer's attention shall be called to the same before work is commenced so that proper clarification can be provided or revision made. If any work is done without contacting the Engineer, it shall be considered that the Contractor has proceeded at their own risk and expense.
- Whenever the performance of work is indicated on the Plans, and no specific item is included in the Contract for payment, the work shall be considered incidental to the contract and no additional compensation will be allowed. The Contractor shall provide all necessary labor, material, equipment, etc. necessary to perform all the work required for construction of the proposed improvements.
- The base plan/drawing for the Engineering Plans (existing conditions, site topography, utilities, rights-of-way, etc.) was obtained from the following sources:
 - Haeger Engineering, LLC
 - 100 East State Parkway Schaumburg, IL 60173 (847) 394-6600 (847) 394-6600 (847) 394-6600

- The Owner shall obtain the necessary approvals from the following Jurisdictional Agencies:
 - Village of Wheeling
 - Illinois Environmental Protection Agency (IEPA) - Water Division
- The Contractor shall prepare and submit in writing with the Owner prior to the start of Construction, shall at his own expense, obtain all other approvals including permits, licenses, etc., as may be required for the execution of this work as well as provide all necessary notices, as well as fees required, post bonds, obtain all necessary insurance, and comply with all laws, ordinances, rules, and regulations relating to the work and to the safety of the public during all phases of the construction. The Contractor shall also provide insurance and/or bonds as may be required by the Jurisdictional Agencies. In addition, the Contractor shall meet all of the requirements of any permits as might be issued for this work by other Agencies, and shall pay for their sole expense any surety, insurance or bonds as may be required by the Jurisdictional Agencies.
- The Contractor shall indemnify and hold harmless the Owner, Engineer, Village/City, and other Jurisdictional Agencies as well as all of their respective officers, employees, agents, and Engineers from and against all losses, claims, demands, payments, suits, actions, recoveries, and judgment of every nature and description brought or recovered against them, by reason of any act, error or omission of said Contractor, their agents or employees in the execution of the work or in the guarding of it.
- The construction shall be under the general inspection and observation of the designated individual authorized by the Village/City or other applicable Jurisdictional Agencies. The Village/City, Jurisdictional Agencies, Owner, and Engineer shall be notified at least two working days prior to the commencement of work.
- In some instances, the existing utilities are shown on the Plans according to information obtained from the utility companies (atlas information) and/or surveys performed by Others. The Owner and Engineer do not guarantee the accuracy or completeness of this information. The Contractor shall be aware of potential conflicts with existing or other proposed utilities as indicated on the Plans. The Engineer shall obtain the result of field locates by Others. The Contractor shall make their own investigations as necessary to determine the existence, nature, and location of all utility lines and related appurtenances within the limits or adjacent to the proposed improvements. The Contractor shall locate all utilities far enough in advance to avoid all conflicts between existing utilities and proposed improvements and to avoid any such conflicts. If the Contractor encounters a conflict between the proposed improvements and existing utility that was not located in advance by the Contractor, then the Contractor shall at no cost to Owner, relocate the proposed improvements and/or utility to avoid the conflict.
- The Contractor will be required to cooperate with all utility companies involved in connection with the removal, temporary relocation, construction, or abandonment by these companies of any and all services or facilities owned or operated by them within the limits or general vicinity of the proposed improvements. Further, at the direction of the Owner and Utility Companies the Contractor shall coordinate the location and install PVC sleeves as necessary under the proposed pavement, curbs, walks, etc. for utility companies to run their proposed utility lines.
- Before doing any work which will damage, disturb or leave unsupported, or unprotected any utility lines or related appurtenances encountered, the Contractor shall notify the respective Owner thereof, who will make all arrangements for relocating, adjusting, bracing, or otherwise maintaining or abandoning service on lines that fall within the limits of the proposed construction without cost to the Contractor. The Contractor shall install all cables, manhole covers and other related appurtenances which the Owner desires to salvage. After such arrangements have been made, the Contractor will proceed with the work as directed by the Engineer. All utility lines and related appurtenances which are abandoned shall be removed if necessary and legally disposed of legally off-site by the Contractor.
- No extra compensation will be allowed by the Contractor for any expense incurred for complying with all of these aforementioned utility coordination and cooperation requirements, or because of delays, inconvenience or interruptions in their work resulting from the failure of any utility company to remove, relocate, construct, reconstruct or abandon their services. The responsibility for prompt and timely removal, relocation, reconstruction or abandonment of their facilities by all utility companies involved, and the coordination of their own work with that of these companies to the end that work on this improvement is not delayed because of the necessary changes in the existing utilities, public or private, shall rest upon the Contractor.
- Prior to commencing work, the Contractor is to field check and verify all critical locations, elevations, materials, sizes, dimensions, and conditions affecting the work, and notify the Engineer immediately if there are any suspected discrepancies. No work shall be performed until the suspected discrepancy has been resolved. The Contractor shall also call to the attention of the Engineer any errors or discrepancies which may be suspected in the lines and grades which are established by the Surveyor, and shall not proceed with the work until any lines and grades which are to be believed to be in error have been verified or corrected by the Engineer.
- The Contractor shall maintain positive drainage at all times during construction. Construction shall not block off-site drainage and the flow from any drainage ways, field tiles, storm sewers or similar draining off-site pipe. All on-site drainage shall be maintained in order to establish a permanent drainage system. During construction shall be maintained, restored to their original pre-construction condition or better, properly re-routed, and/or connected to the proposed stormwater drainage system. If this can't be accomplished then the field tile should be repaired or re-routed with new pipe of similar diameter to the original line and put back in place. All on-site drainage shall be maintained in order to establish a permanent drainage system. During any construction activities any loose material is deposited in the flow line of gutters, ditches, drainage structures, etc. such that the natural flow of water is obstructed, this material shall be removed by the responsible party.
- At the commencement of construction, on sites that will ultimately result in the disturbance of one (1) acre or more, the Contractor shall be responsible for obtaining a copy of the notice of coverage letter and the IEPA National Pollution Discharge Elimination System (NPDES) General Permit LR110 from the Owner. The Owner together along with the Contractor and/or other entities if so designated by the Owner, shall be responsible for ensuring that all the requirements of the General Permit and the Storm Water Pollution Prevention Plan (SWPPP) including but not limited to the installation, maintenance as well as the installation of any additional measures necessary that may be required, and inspections of the soil erosion and sediment control measures as well as completing all of the necessary applicable certifications, reports, logs, etc. Inspections are required to be performed at least once every seven (7) calendar days and within 24 hours of the end of a storm event of 0.5 inches of rain (or equivalent snowfall) or greater. The SWPPP and all the required paperwork shall be kept on-site and be organized and ready for viewing.
- No construction activities, disturbance or pond shall occur within the limits of natural resources such as wetlands, floodplains, creeks, streams, ponds, lakes, basins, reservoirs, etc. or their respective buffers unless specifically specified on the Plans and further that the work has been permitted. The Contractor shall take sufficient precautions to protect these natural resources that are to remain, whether on-site or on adjacent

- property, to protect them from sediment, fuels, oils, bitumens, calcium chloride, or other harmful materials that may be a detriment to the work and materials. The Contractor shall conduct and schedule their Construction so as to avoid siltation, or other disturbance or impact to these natural resource areas. The Contractor shall not disturb or otherwise impact these designated natural resource areas, or areas that have been designated to be protected or as essential habitat for State or Federal listed endangered or threatened species, or Prairie or Savanna areas where the Owner has made commitments for protection of these areas. Also, if previously unidentified natural resource areas, prairie, savannas, or areas of local or statewide significance or protected species are identified during construction, the Contractor shall not disturb them unless written permission to do so is granted by the Owner or applicable Jurisdictional Agency. If the Owner, Engineer, or applicable Jurisdictional Agency determines that additional measures are necessary to prevent or mitigate potential impacts to natural resources, the Contractor shall cooperate in accomplishing these measures.
- The Contractor shall confine their activities to within the project boundaries, work areas, or easements specified. No work shall be performed on adjacent private property or outside the project work areas without the IDOT Standard Specifications. The Contractor shall be responsible for any damage to existing or existing or newly installed improvements as well as any damage on adjacent property or areas outside designated work areas, provided damage was a result of Contractor action, or lack thereof.
- The Contractor is responsible for returning all areas affected by equipment, materials and/or laborers to pre-project condition or better, including but not limited to: pavements, curbs, drives, trees, and parkways damaged or removed during construction shall be promptly restored to their respective original pre-construction condition or better. The Contractor is also responsible for protecting all newly constructed work from damage until the project has been completed and has been approved and accepted by the Owner.
- Clean-up and final restoration shall be performed immediately upon completion of each phase of the work or when directed to do so by the Owner, so that these areas will be restored as nearly as possible to their original pre-construction condition or better, and shall include but not be limited to, restoration of maintained lands and rights-of-way, roadways, driveways, sidewalks, ditches, landscaping, fences, mailboxes, storm sewers, water mains, and other structures, water mains, etc. It shall also be the responsibility of the Contractor to remove from the site any and all materials and debris which results from their construction operations at no additional expense to the Owner.
- All proposed grades shown on the Plans shall be considered to be finished grade surface elevations unless otherwise specified. The Contractor shall be responsible for providing the necessary earthwork quantities or the Construction staking/layout shall be provided by the Contractor and shall be included in the Contract Price unless otherwise agreed upon in writing with the Owner prior to the start of Construction.
- All Construction means and methods, techniques, procedures, scheduling, sequencing, and job site safety is the responsibility of the Contractor. The Contractor shall be held responsible for any damage or injury to dirt, mud, clay, sediment, concrete, gravel, sand, stones, plant material, refuse, garbage, oil, grease, etc. deposited on any roadway, street, walk, alley or other pavement by any equipment, vehicles or personnel associated with this project. This work shall be considered incidental to the Contract.
- The Contractor shall be held responsible for the protection of the site by installing a watering truck readily available during all working hours. The Contractor shall water the entire site whenever the site conditions become unhealthy due to blowing soil or dust. The site shall be watered as many times per day as available to maintain a healthy work site as determined by the Owner or Engineer. Water for non-erosion control shall be called to the same before work is commenced so that proper clarification can be provided or revision made. If any work is done without contacting the Engineer, it shall be considered that the Contractor has proceeded at their own risk and expense.
- Trees not marked for removal shall be protected as necessary by the Contractor. In the event that a tree is damaged during construction, the Contractor shall replace such tree with a tree of similar size and species in accordance with Village/City requirements. If the Village/City does not have specific tree replacement requirements, the damaged existing or newly planted tree shall be replaced in accordance with the procedures outlined in Section 201 of the IDOT Standard Specifications. The Contractor shall ensure that trees are familiar with the applicable tree preservation requirements and shall be held responsible for the replacement of all damaged trees not designed for removal, and any penalties associated with the unapproved removal of trees.
- Where overhanging branches, limbs, or roots interfere with the required construction activities, said branches, limbs, or roots shall be trimmed or pruned as necessary in accordance with Section 201 of the IDOT Standard Specifications. This work shall be performed under the supervision of an approved arborist or landscape architect.
- The Contractor is responsible for the installation and maintenance of adequate signs, traffic control devices, and warning devices, in accordance with the Plans, applicable IDOT Standard Specifications and the MUTCD Standard Specifications. The Contractor shall be responsible for the installation and maintenance of all signs, barricades, devices, equipment, personnel, etc. necessary to provide for safe and efficient traffic flow in all areas where the work will interrupt, interfere or cause to change in any form, the conditions of traffic flow that existed prior to the commencement of any portions of the work. Roadways shall remain open to a degree sufficient to protect the public during all phases of the construction. The Contractor shall install the Contractor to furnish traffic control under these or other circumstances where in their opinion it is necessary for the protection of life and property. Emergency vehicle access along with access to fire hydrants shall be maintained at all times. Further, unless authorized by the Owner, all existing access points shall be maintained and kept open at all times.
- Where noted in the Plans, the Contractor shall have Shop Drawings and any other required supporting documentation or calculations prepared and submitted for review and approval prior to any fabrication, placement, or construction. If structural elements such as retaining walls are required, the drawings and any required supporting design calculations must be prepared, and signed and sealed by an Illinois licensed engineer.
- All work performed under the Plans, Specifications or other Contract Documents shall be guaranteed against all defects in materials and workmanship of whatever nature by the Contractor and his surety for a minimum period of 12 months from the date of completion of the work by the Village/City or other applicable Jurisdictional Agencies, and the Owner, unless otherwise agreed upon in writing with the Owner prior to the start of construction.
- Before acceptance by the Owner and prior to final payment all work shall be inspected and approved by the Owner or designated representative. Final payment will be made after the Contractor's work has been approved and accepted as required by the Contract Documents.
- If required, the Owner shall have As-built or Record Drawings prepared and submitted to the Village/City and all other applicable Jurisdictional Agencies for approval after the completion of construction. These drawings shall be prepared in accordance with the Village/City and other applicable Jurisdictional Agency requirements. The As-built or Record Drawings must be prepared, and signed and sealed by a registered professional Engineer in Illinois.

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DEMOLITION AND CLEARING

- The Contractor shall perform all demolition, clearing, grubbing, and tree removal and protection work in accordance with all applicable Federal, State, County and Local requirements or as noted in the Plans.
- Prior to the commencement of any demolition or clearing activities, the Owner or Contractor shall obtain all applicable permits to disconnect the existing utility services to each building proposed for demolition.
- The Contractor shall coordinate all demolition work with the Village/City, utility companies, and other Jurisdictional Agencies, so as to ensure the prevention of all existing sewer, water main, and other utilities, and further to ensure that proper stormwater conveyance is attained under the proposed improvements can be installed and placed into operation.
- Clearing shall consist of the removal and legal disposal of all obstructions such as trees, hedges, fences, walls, accumulations of rubbish of whatever nature, and all logs, shrubs, brush, grass, weeds, and other vegetation and stumps and roots of whatever nature shall be removed whenever they are found within the street right-of-way within the limits of construction. All existing trees are to be saved or protected, or removed from damage in accordance with the procedures outlined in Section 201 of the IDOT Standard Specifications.
- All items shown to be removed on the Plans including items not specifically noted but necessary to be removed to construct the proposed improvements shall be demolished or removed as necessary and disposed of legally off-site by the Contractor.
- Existing utilities to be disconnected shall be done so at the main or as directed by the applicable Jurisdictional Agency or as noted on the Plans.
- Utilities marked to be abandoned shall be abandoned as required by the applicable Jurisdictional Agency or as noted on the Plans.
- All existing pavement or concrete to be removed shall be saw-cut along the limits of the proposed removal to provide a clean vertical edge. The cost of saw-cutting shall be considered incidental to the removal of each item.
- All voids left by any item removed under any proposed building, pavement, walk or other structural areas or within zones of influence thereof shall be properly backfilled with suitable backfill material and/or compacted as necessary by the Contractor.
- The Contractor shall implement a daily program for dust control as it relates to the demolition and clearing activities. This program is to be approved by the Village/City prior to the start of any demolition or clearing work.
- All existing building services serving buildings that are to be removed shall be disconnected and removed as required by the applicable Jurisdictional Agency.
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- Existing utilities to be disconnected shall be done so at the main or as directed by the applicable Jurisdictional Agency or as noted on the Plans.
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- All existing septic tanks, grease traps or similar shown on the Plans to be abandoned or that are discovered during the demolition and clearing activities shall be removed and disposed of legally off-site by the Contractor in accordance with applicable County, State or Federal rules or regulations.
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- required by any Local, County, State or Federal rules and regulations. The structures shall then be removed and disposed legally off-site or broken in place, so as not to hold liquid, and backfilled with suitable materials by the Contractor or as required by the Health Department or by any other Local, County, State or Federal rules and regulations.
- Any material containing asbestos or other hazardous materials found within existing structures or other items shown to be removed in order to construct the proposed improvements shall be removed from the site and legally disposed of off-site by the Contractor in accordance with applicable County, State or Federal rules or regulations.
- All fire access lanes or routes located within the existing project area shall remain in service, clean of debris, and accessible for use by emergency vehicles at all times while demolition and clearing work is being performed.
- It shall be the responsibility of the Contractor to legally remove from the site any and all materials and debris which results from their demolition or clearing operations at no additional expense to the Owner. Burning or incineration on the site is not permitted.
- During water service shutdown, if lead caulking is encountered on the existing watermain to be abandoned, the contractor shall remove and properly dispose of it.

EARTHWORK AND GRADING

- All earthwork and grading activities shall be performed in accordance with the IDOT Standard Specifications or as noted in the Plans

PAVING NOTES AND CONDITIONS

- The Contractor shall coordinate construction activities with utility companies and the Village of Wheeling.
- The Contractor shall be responsible for the protection of all underground utilities even though they may not be shown on the plans. Therefore, the Contractor shall have the respective utility companies field locate all of their facilities prior to beginning construction, any relocation or lowering of utilities shall be coordinated by the Contractor. Utilities that are damaged during construction shall be repaired or replaced by the Contractor at his own expense.
- Ten (10) feet or three (3) meter transitions shall be used to match proposed curb and gutter and median items of work to existing curbs & gutters and medians in the field, unless otherwise shown. The transitions shall be paid for at the contract unit price for the proposed items of work specified.
- Barricades: The Contractor shall provide and install two (2) weighted sandbags on each type I or type II barricade used- (1) weighted sand bag across each bottom rail.
- All the work performed by the Contractor shall be guaranteed for a period of twelve (12) months from the date of final acceptance by IDOT. This guarantee shall include all defects in materials and workmanship.
- The Village of Wheeling, Illinois, Public Works Department must be notified at least two (2) working days prior to a request for inspection, commencement or resumption of any work.
- The Contractor is responsible for maintaining adequate signs, barricades, fencing, traffic control devices and measures and all other measures that are necessary to protect the safety of the project area at all times.
- All structures, inlets, pipes, swales and roads must be kept clean and free of dirt and debris at all times.
- Adjustment of any sanitary sewer manhole frames shall include the installation of chimney seals in accordance with Village requirements. The cost of the chimney seal shall be considered incidental to the adjustment of the structure.
- Any defective or non-bicycle safe frame & grates shall be brought to the Village's attention. All frames & grates to be replaced shall remain property of the Village and shall be stored in the right-of-way for pick up by the Village.
- Any mailboxes that are in conflict with the proposed construction shall be removed and replaced in accordance with the Village standards. This work will be included in the contract. Mail service shall be maintained all the times. Contractor must be careful with the existing mailboxes. Any damaged mailboxes shall be replaced by the Contractor at no additional cost to the homeowner or the Village.
- Existing driveway pavement, sidewalk, and curb and gutter to remain in place shall be saw cut full depth to provide a neat vertical face between the proposed and the existing structure. This work shall be considered incidental to each pay item.
- Brick driveway pavement shall be constructed on 8-inches of compacted CA-6 Grade 8 crushed limestone base (2 lifts) topped with 1-inch of sand, price of which shall be included in the pay item brick driveway pavement. No extra compensation will be allowed.
- Class D patches shall be constructed at locations determined by the engineer in the field. Any saw cuts associated with this pay item will be considered incidental and no extra compensation will be made. Any subbase removal beneath it will also be incidental.
- Any roots encountered while removing the sidewalk or driveway aprons shall be saw-cut and disposed by the Contractor.
- Tree root pruning shall be provided at each tree location, the price of which shall be included in the pay item tree root pruning. No extra compensation will be allowed.
- Limits of curb & gutter and sidewalk removal are approximate and shall be marked in field by Engineer/Owner. Limits are subject to change.
- All items which are damaged or disturbed as a result of work shall be replaced to existing condition or better at the contractor's expense.
- Access to streets and private driveways shall be provided at all times except during actual construction adjacent thereto. Temporary ramps shall be constructed as necessary to provide such access utilizing crushed aggregate (cost incidental). It will be the Contractor's responsibility to notify the residents and businesses when access to their driveways will be temporarily closed due to curb and gutter, driveway or sidewalk replacement. The contractor shall distribute Village approved notices of anticipated closures. Every effort shall be made to accommodate access to these properties involving placement of pavement in stages across driveways and knocking on doors when driveways will be closed.
- Contractor shall ensure that access by Mail Delivery, Garbage Removal School Buses and Emergency Vehicles on public streets is maintained at all times.
- Restoration limits shall be limited to maximum of 2-ft immediately adjacent to edge of removed and replaced curb and gutter, sidewalk or driveway. Any additional disturbed areas will not be paid for.

CONC. CURB, SIDEWALK & PAVING NOTES

- The finished hot-mix asphalt surface course shall be constructed to 1/4" above the edge of gutter flag.
- The proposed curb and gutter shall be depressed at abutting sidewalks and across driveways as indicated on the plans.
- Saw cutting required for removal of existing driveway pavement, sidewalk, curb and gutter and where the proposed pavement abuts existing pavement to remain in place (begin, end and limits of construction) shall be as specified in article 440 of the Standard Specifications. Provide a neat vertical face between the proposed and existing surfaces. Saw cutting shall be included in the pay item being removed. All saw cutting shall be full depth.
- Curb & gutter and driveway removal and replacement work shall be limited to one side of the street in each direction at a time to minimize congestion. Full depth saw cut 1 feet minimum off of edge of pavement is required prior to C&G removal to allow space for proper compaction of pavement base course (incidental).
- Construction operations involving temporary closing of driveways or roads shall not commence without at least three (3) working days prior notice to the Village by the Contractor. The Contractor will also be required to provide 48 hours notice to affected parties by distributing written notices and posting signs.
- Construct temporary ramps to adjoining pavement or driveways as needed or directed by Engineer. These ramps must be minimum two car wide and shall be constructed for the entire width of pavement to be removed. These ramps shall be constructed using crushed limestone CA-6, Gr-8, virgin material or as directed by the Engineer. Proper temporary driveway entrance signs must be installed. The Contractor is responsible to maintain open access to all side streets, homes, industries, and businesses at all times. These temporary ramps shall be considered incidental to pavement removal and will not be paid for separately.
- All the density tests will be performed by using cores.
- Leveling binder shall be used around the structures in the roadway in variable thickness as necessary or as determined by the engineer.
- Protective coating for all concrete surfaces shall be considered included in cost of respective pay items.
- Proposed 3/8" preformed expansion joint is required at concrete sidewalk, driveways and curb and gutter and shall be incidental to the curb and gutter removal and replacement.
- In areas where the existing driveway, sidewalk or curb and gutter is to be removed and replaced, the removal and disposal of any additional material required to establish the proposed driveway, sidewalk or curb and gutter subgrade elevation shall be included in the respective removal pay items.
- If any milled pavement is open to traffic, the maximum grade differential between passes of milling machine shall not exceed 1.5 inches.
- If any soft or yielding materials are detected after excavation to subgrade, the Contractor will at the direction of the Geotechnical Engineer to remove the material and replace with porous granular embankment, subgrade.

DRAINAGE NOTES

- Any saw cuts and excavation required to remove and install drainage structures or storm sewer pipe shall be considered incidental to the item being removed or installed.
- Trench backfill used shall be CA-6 (grade-8) crushed limestone and shall be considered incidental to the item being installed. No crushed concrete will be allowed as trench backfill material. Trench backfill shall be provided up to the existing pavement grade to eliminate any voids created and to provide temporary roadway access. The backfill material shall be placed in 8 inch lifts, loose measurement, and compacted by mechanical means to the satisfaction of the engineer.
- Contractor must imply careful method to salvage all existing pipes. If any of the existing pipes are damaged during construction, the Contractor shall replace the damaged pipe at no extra cost to the Village. No extra compensation will be allowed.
- Inlet and pipe protection must be installed in all open grate structures that receive drainage from disturbed areas prior to commencing the work and shall be maintained regularly throughout the length of the project.
- Contractor shall grade and construct improvements to provide positive drainage. Ponding water will not be permitted.
- All Frame & Lid castings located within pavement which required adjusting to finished grade shall be backfilled with Class SI Concrete and allowed to cure for 72 hours prior to placement of surface course. Class PP Concrete shall be utilized if surface course is to be placed in less than 72 hours. HMA materials will not be allowed as backfill around adjusted frames. This work shall be incidental to drainage & utility structures to be adjusted.
- All storm drainage structures in curbs shall have modified drainage structure and pipe underdrain (special) per Village of Wheeling details.

TRAFFIC / CONSTRUCTION STAGING

The Contractor shall submit a pre-planned sequence of work at the pre-construction meeting for review and approval. The Contractor's superintendent and the Resident Engineer will be required to work together with the affected residents in planning their construction schedule so as to minimize the inconvenience and maintain a reasonable level of construction efficiency. The Resident Engineer and/or the Village reserve the right to restrict work on a pavement segment if construction operations on the previous segment are unacceptable.

The sequence of traffic / construction staging is recommended in the order listed below:

- Stage 1 - Utility & Drainage structure improvements
- Stage 2 - Curb and gutter, driveway and sidewalk removal and replacement where identified
- Stage 3 - Pavement removal (see typical section for depth of removal)
- Stage 4 - Pavement replacement - Resurfacing Areas
 - Repair aggregate sub-base and/or subgrade in identified deteriorated areas
 - Proof-roll compacted aggregate base course areas
 - Install hot-mix asphalt binder course, in one 3" lift - install hot-mix asphalt surface course
- Stage 5 - Install pavement markings and restoration as required

DRIVEWAY CLOSINGS:

It will be the Contractor's responsibility to notify residents and the Village two (2) days in advance when access to the residents' driveways will be temporarily closed due to the curb and gutter and/or driveway replacement. The Contractor shall distribute notices APPROVED by the Village, to the residents/property owners. Every effort shall be made to accommodate access to these properties (i.e. knock on doors when driveway is about to be closed).

DEBRIS REMOVAL:

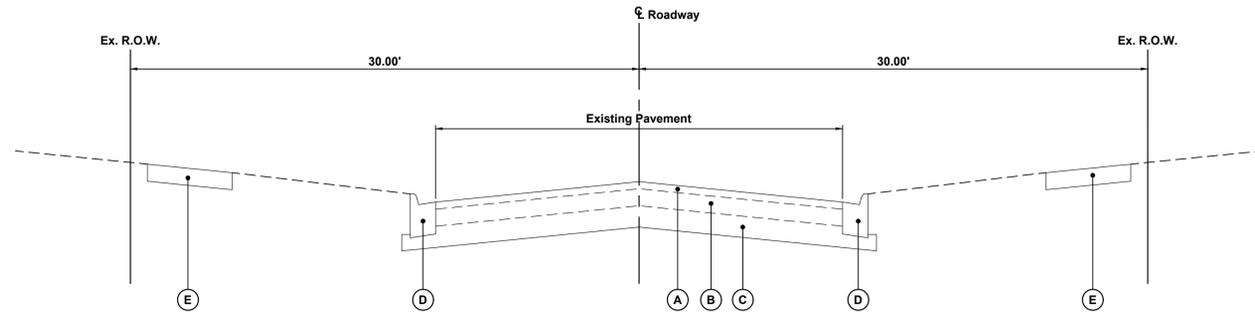
Materials resulting from the removal of pavement, driveways, curb and gutter, Hot-Mix Asphalt pavement and subgrade, etc. shall be removed at the end of each day to a village approved site. In the judgment of the Village, should it be necessary to remove such materials, the Village will have the material removed and the Contractor shall be billed (charged) accordingly.

WATER SUPPLY:

The Contractor can obtain municipal water in bulk, at NO CHARGE, as long as there is not a "watering ban" in effect. Prior to obtaining any water, an account with the Finance Department must be set up for documentation on water usage. The indiscriminate use of fire hydrants is strictly prohibited. Water for construction shall be metered or otherwise accounted for on a daily log maintained with the Public Works Department. The Contractor shall provide the water truck and driver required to obtain and transport this water. The Village reserves the right to restrict or refuse the use of Village water if deemed necessary.

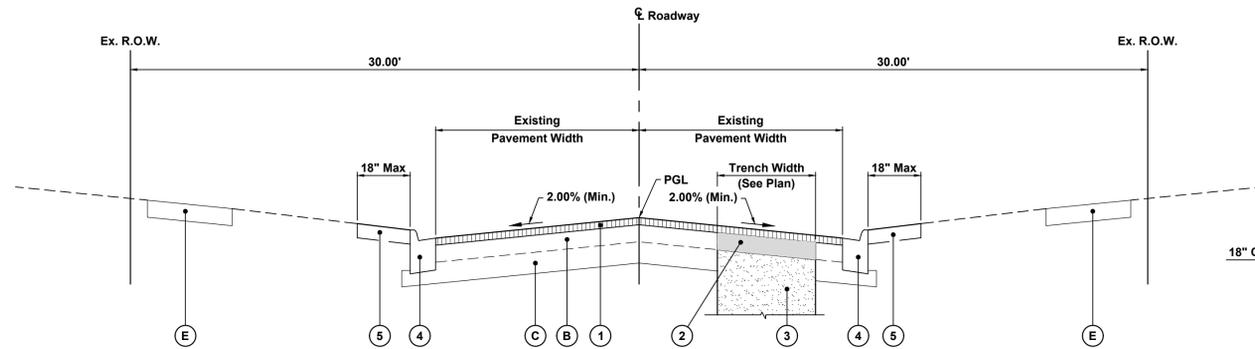
ADDITIONAL SPECIFICATIONS / INCIDENTALS NOTES:

- Monolithically poured curb for the 'MODIFIED CURB DRAINAGE STRUCTURE TO BE ADJUSTED' shall be incidental to the cost of that pay item. No extra compensation will be paid for lineal feet of curb and gutter.
- REMOVAL & DISPOSAL OF UNSUITABLE MATERIAL shall include the removal of all uncontaminated material required for removal in order to achieve the proposed design elevations, as well as any material required for undercut removals as directed by the Geotechnical Engineer.
- Removal and Disposal of 'CONTAMINATED WASTE' shall include the storage, removal, and proper disposal of any materials determined to be 'contaminated' in accordance with IEPA standards.
- All existing mailboxes are to remain in service at all times. Any necessary removals and/or re-installations of mailboxes shall be done at the expense of the Contractor and are incidental to the Contract.
- Whenever the performance of work is indicated on the plan, and no pay item is included in the contract for payment, the work shall be considered incidental to the contract and no additional compensation will be allowed.



EXISTING TYPICAL CROSS SECTION

SCALE: 1" = 5' HORZ, 1" = 2" VERT

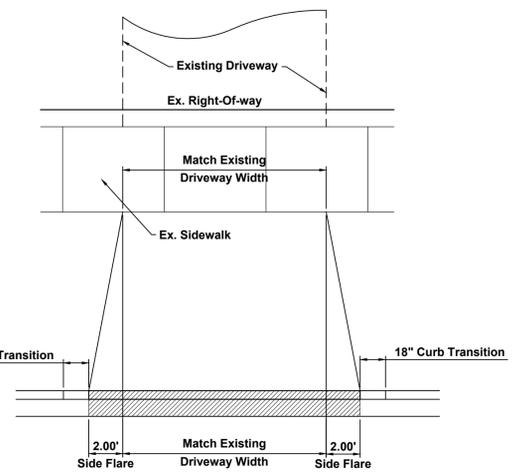


PROPOSED TYPICAL CROSS SECTION

SCALE: 1" = 5' HORZ, 1" = 2" VERT

NOTE:
Maximum Payable Trench Width
Depth ≤ 5' = O.D. of Pipe + 18"
Depth > 5' = O.D. of Pipe + 36"

- LEGEND**
- (A) Existing Bituminous Surface Course
 - (B) Existing Bituminous Binder Course
 - (C) Existing Aggregate Base Course
 - (D) Existing Curb And Gutter
 - (E) Existing Concrete Sidewalk
 - (1) Grind Down Existing 1-3/4" Surface Course And Replace with 2" Hot-Mix Asphalt Surface Course, Mix "C", N50
 - (2) 5" Hot-Mix Asphalt Binder Course, IL-9.0, N50
 - (3) Compacted Granular Trench Backfill, CA-6 Grade 8
 - (4) Existing Concrete Curb And Gutter To Be Removed And Replace With Type M-3.12, See Plan For Exact Locations. Additional curb may be marked for removal as determined by Village staff.
 - (5) 4" Topsoil Placement And Sod (Parkway Restoration)



PROPOSED DRIVEWAY APRON DETAIL

N.T.S.

- NOTE:**
- Village will mark all driveways for saw cutting and removal.
 - Bituminous Driveways: Match Existing Thickness to a Maximum of 5" HMA Surface For Entire Thickness.
 - Concrete Driveways: High Early Strength Concrete Must Be Used At Driveways.

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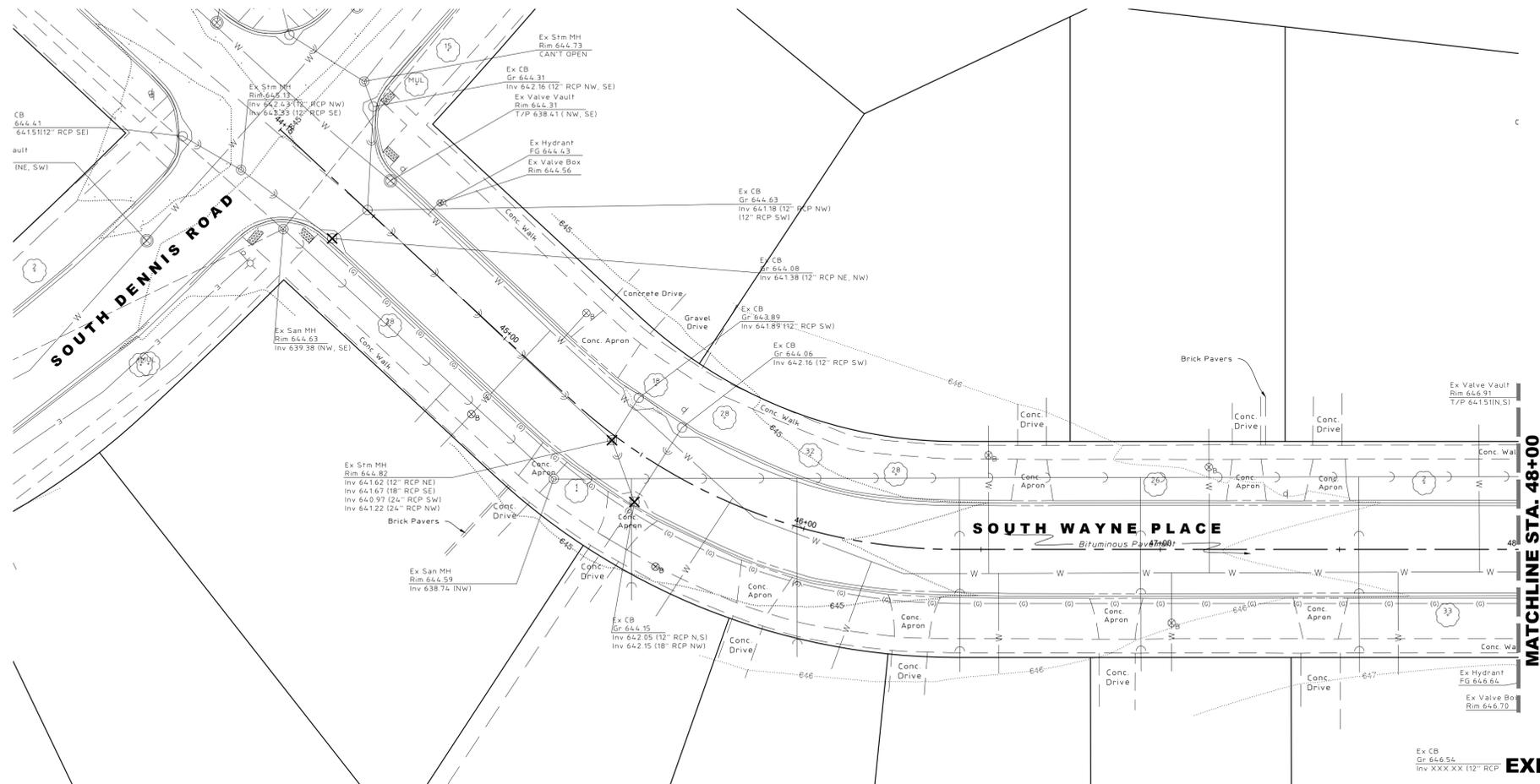
GENERAL NOTES, SPECIFICATIONS, AND TYPICAL SECTIONS
DUNHURST RELIEF STORM SEWER IMPROVEMENT PLANS
WHEELING, ILLINOIS

Project Manager: KML
Engineer: KML
Date: 02-21-2020
Project No. 19-185
Sheet C2.1 / C9

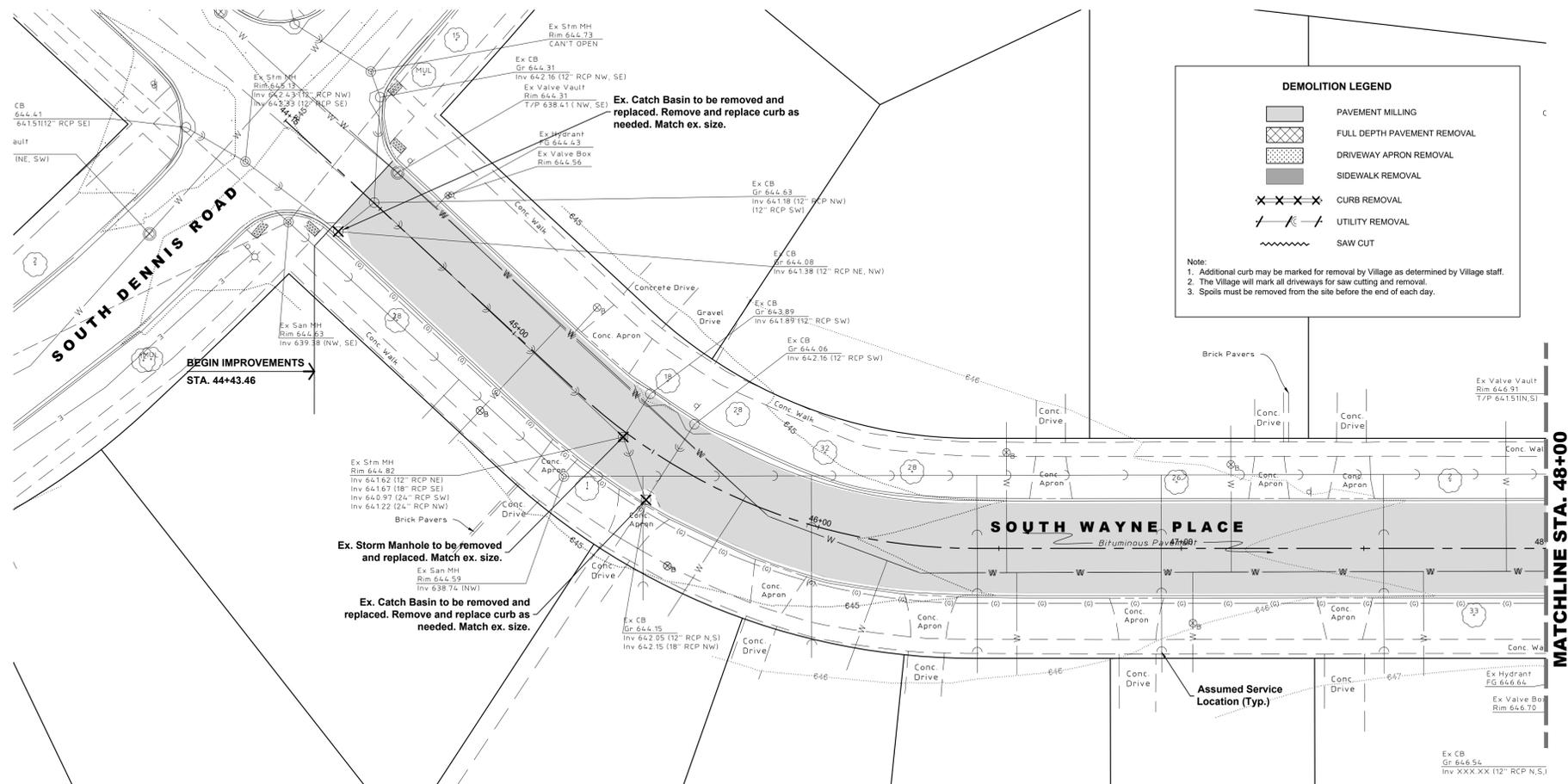
SUMMARY OF QUANTITIES				
CODE NO.	CODED PAY ITEMS	UNIT	TOTAL QUANTITY	
21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	200	
25200110	SODDING, SALT TOLERANT	SQ YD	200	
28000510	INLET FILTERS	EACH	60	
35100300	AGGREGATE BASE COURSE, TYPE A 4"	SQ YD	11	
35100500	AGGREGATE BASE COURSE, TYPE A 6"	SQ YD	1,386	
40600275	BITUMINOUS MATERIALS (PRIME COAT)	GAL	3,251	
40603080	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50, 5 INCH	TON	517	
40603310	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50, 2 INCH	TON	728	
42300100	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 5 INCH	SQ YD	76	
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	172	
44000100	PAVEMENT REMOVAL OVER TRENCH, FULL DEPTH	SQ YD	1,846	
44000156	HOT-MIX ASPHALT SURFACE REMOVAL, 1-3/4"	SQ YD	6,502	
44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	91	
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	1,172	
44000600	SIDEWALK REMOVAL	SQ FT	172	
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	9	
550A0050	STORM SEWERS, CLASS A, TYPE 1 12" w/ O'RING JOINTS	FOOT	711	
550A0070	STORM SEWERS, CLASS A, TYPE 1 15" w/ O'RING JOINTS	FOOT	212	
550A0090	STORM SEWERS, CLASS A, TYPE 1 18" w/ O'RING JOINTS	FOOT	242	
550A0120	STORM SEWERS, CLASS A, TYPE 1 24" w/ O'RING JOINTS	FOOT	527	
550A0140	STORM SEWERS, CLASS A, TYPE 1 30" w/ O'RING JOINTS	FOOT	638	
550A0180	STORM SEWERS, CLASS A, TYPE 1 42" w/ O'RING JOINTS	FOOT	164	
55100500	STORM SEWER REMOVAL 12"	FOOT	490	
60200105	CATCH BASINS, TYPE A, 4'-DIAMETER	EACH	7	
60203805	CATCH BASINS, TYPE A, 5'-DIAMETER	EACH	4	
60218400	MANHOLES, TYPE A, 4'-DIAMETER	EACH	14	
60221100	MANHOLES, TYPE A, 5'-DIAMETER	EACH	6	
60223800	MANHOLES, TYPE A, 6'-DIAMETER	EACH	4	
60224457	MANHOLES, TYPE A, 8'-DIAMETER	EACH	1	
60238800	INLETS, TYPE A	EACH	43	
60300105	FRAMES AND LIDS TO BE ADJUSTED	EACH	5	
60611811	COMBINATION CONCRETE CURB AND GUTTER, TYPE M (MODIFIED)	FOOT	1,172	
78001130	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	263	
78001180	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	48	
X0325352	PIPE SUPPORT	EACH	1	
Z0004518	HOT-MIX ASPHALT DRIVEWAY PAVEMENT, 5"	SQ YD	14	
	REPLACE / ADJUST LONG WATER SERVICE	EACH	23	
	REPLACE / ADJUST SANITARY SERVICE	FOOT	630	
	WATER SERVICE INSULATION	EACH	100	
	STEEL CASING PIPE, 12"	FOOT	150	
	CONCRETE WASHOUT FACILITY	EACH	1	
	MOBILIZATION	L.SUM	1	
	CONSTRUCTION LAYOUT	L.SUM	1	
	CONSTRUCTION CONTINGENCY	L.SUM	1	
	TRAFFIC CONTROL AND PROTECTION	L.SUM	1	

SOUTH / EAST WAYNE PLACE DRAINAGE STRUCTURES										
STRUCTURE NAME	TYPE	DIAMETER	FRAME & GRATE/LID	STATION	OFFSET	RIM	INVERT	INVERT	INVERT	INVERT
CB C1	Catch Basin	48"	EJ 1020M1 or Neenah R-2015	44+45.76	12.37' RT	644.08	641.38 NW	641.38 NE		
MH C2	Manhole	60"	EJ 1020A or Neenah R-1713	45+41.03	1.43' R	644.82	640.97 SW	641.22 NW	641.62 NE	641.67 SE
CB C3	Catch Basin	48"	EJ 1020M1 or Neenah R-2015	45+55.22	12.17' R	644.15	642.05 N	642.05 S	642.15 NW	
MH A4	Manhole	60"	EJ 1020A or Neenah R-1713	49+23.84	6.07' LT	646.56	639.62 W	639.62 E	641.12 S	641.12 N
INL A4-1	Inlet	24"	EJ 1020M1 or Neenah R-2015	49+23.83	12.11' RT	646.29	641.80 N			
INL A4-2	Inlet	24"	EJ 1020M1 or Neenah R-2015	49+23.87	12.22' LT	646.29	641.20 S			
CB A5	Catchbasin	60"	EJ 1020A or Neenah R-1713	49+93.38	6.18' LT	646.37	639.69 W	639.69 E	641.19 N	641.19 S
INL A5-1	Inlet	24"	EJ 1020M1 or Neenah R-2015	49+93.39	12.09' RT	646.25	641.80 N			
INL A5-2	Inlet	24"	EJ 1020M1 or Neenah R-2015	49+93.42	12.18' LT	646.07	641.40 S			
MH A6	Manhole	60"	EJ 1020A or Neenah R-1713	50+71.27	6.21' LT	646.12	639.77 W	639.77 E	641.27 NE	641.27 S
INL A6-1	Inlet	24"	EJ 1020M1 or Neenah R-2015	50+67.07	12.15' RT	645.91	641.80 N			
INL A6-2	Inlet	24"	EJ 1020M1 or Neenah R-2015	50+75.36	12.22' LT	645.85	641.35 SW			
CB A7	Catchbasin	60"	EJ 1020A or Neenah R-1713	51+49.78	6.18' LT	645.98	639.85 W	639.85 E	641.35 N	641.35 S
INL A7-1	Inlet	24"	EJ 1020M1 or Neenah R-2015	51+50.12	12.24' RT	645.74	641.80 N			
INL A7-2	Inlet	24"	EJ 1020M1 or Neenah R-2015	51+49.84	12.18' LT	645.71	641.40 S			
MH A8	Manhole	60"	EJ 1020A or Neenah R-1713	51+71.65	6.17' LT	645.98	639.87 W	639.87 E	642.36 N	
MH A9	Manhole	60"	EJ 1020A or Neenah R-1713	52+57.65	6.32' LT	645.56	639.96 W	639.96 E	641.00 N	641.00 S
INL A9-1	Inlet	24"	EJ 1020M1 or Neenah R-2015	52+57.65	12.05' RT	645.30	641.15 N			
INL A9-2	Inlet	24"	EJ 1020M1 or Neenah R-2015	52+57.68	12.34' LT	645.29	641.05 S			
MH A10	Manhole	60"	EJ 1020A or Neenah R-1713	53+05.18	5.49' LT	645.48	640.03 W	640.03 E		
CB A11	Catchbasin	60"	EJ 1020A or Neenah R-1713	53+45.51	5.54' LT	645.31	640.08 W	641.08 NW	641.08 SE	640.08 E
INL A11-1	Inlet	24"	EJ 1020M1 or Neenah R-2015	53+45.84	12.16' RT	645.32	641.20 NW			
INL A11-2	Inlet	24"	EJ 1020M1 or Neenah R-2015	53+45.56	12.02' LT	645.05	641.15 SE			
MH A12	Manhole	48"	EJ 1020A or Neenah R-1713	53+72.02	7.75' RT	645.33	640.12 W	640.12 NE		
MH A13	Manhole	48"	EJ 1020A or Neenah R-1713	54+03.14	6.18' RT	645.16	640.18 SW	641.18 NW	641.18 SE	640.18 NE
INL A13-1	Inlet	24"	EJ 1020M1 or Neenah R-2015	54+03.43	11.37' RT	645.00	641.25 NW			
INL A13-2	Inlet	24"	EJ 1020M1 or Neenah R-2015	54+01.99	12.40' LT	644.86	641.35 SE			
MH A14	Manhole	48"	EJ 1020A or Neenah R-1713	54+54.97	7.29' RT	645.01	640.25 SW	640.25 N		
CB A15	Catchbasin	48"	EJ 1020A or Neenah R-1713	55+08.97	6.64' RT	644.97	640.33 S	640.83 W	640.83 E	640.33 N
INL A15-1	Inlet	24"	EJ 1020M1 or Neenah R-2015	55+09.10	11.67' RT	644.69	640.90 W			
INL A15-2	Inlet	24"	EJ 1020M1 or Neenah R-2015	55+09.23	12.43' LT	644.63	641.00 E			
MH A16	Manhole	48"	EJ 1020A or Neenah R-1713	55+69.87	7.21' RT	644.76	640.52 S	640.52 N	641.02 W	641.02 E
INL A16-1	Inlet	24"	EJ 1020M1 or Neenah R-2015	55+69.97	12.38' RT	644.51	641.10 W			
INL A16-2	Inlet	24"	EJ 1020M1 or Neenah R-2015	55+69.95	12.10' LT	644.60	641.20 E			
MH A17	Manhole	48"	EJ 1020A or Neenah R-1713	56+28.43	7.20' RT	644.64	640.64 S	640.64 S	641.14 E	
INL A17-1	Inlet	24"	EJ 1020M1 or Neenah R-2015	56+28.66	12.46' RT	644.34	641.30 W			
CB A18	Catchbasin	48"	EJ 1020A or Neenah R-1713	56+68.81	7.19' RT	644.54	640.73 S	641.23 W	641.23 E	640.73 N
INL A18-1	Inlet	24"	EJ 1020M1 or Neenah R-2015	56+69.59	12.36' RT	644.32	641.30 W			
CB A18-2	Catchbasin	48"	EJ 1020M1 or Neenah R-2015	56+72.74	17.26' LT	644.27	641.50 E	641.50 S		
INL A18-3	Inlet	24"	EJ 1020M1 or Neenah R-2015	56+35.77	19.46' LT	644.43	641.75 N			
MH A19	Manhole	48"	EJ 1020A or Neenah R-1713	57+38.62	7.26' RT	644.18	641.00 S	641.25 E	641.25 W	
INL A19-1	Inlet	24"	EJ 1020M1 or Neenah R-2015	57+38.78	12.27' RT	643.96	641.30 W			
INL A19-2	Inlet	24"	EJ 1020M1 or Neenah R-2015	57+38.77	12.48' LT	644.09	641.35 E			

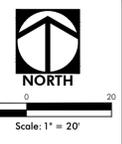
MERLE LANE DRAINAGE STRUCTURES										
STRUCTURE NAME	TYPE	DIAMETER	FRAME & GRATE/LID	STATION	OFFSET	RIM	INVERT	INVERT	INVERT	INVERT
MH A1-1	Manhole	96"	EJ 1020M1 or Neenah R-2015	9+83.62	11.93' RT	647.13+/-	639.30 W	639.30 E	639.30 NW	
MH A1-2	Manhole	72"	EJ 1020M1 or Neenah R-2015	9+83.11	11.92' LT	647.13+/-	639.62 W	639.62 E		
MH A1	Manhole	72"	EJ 1020A or Neenah R-1713	9+92.01	7.01' RT	647.18	639.32 SE	639.32 N		
MH A2	Manhole	72"	EJ 1020A or Neenah R-1713	10+99.04	4.63' RT	647.01	639.48 S	639.48 N		
MH A3	Manhole	72"	EJ 1020A or Neenah R-1713	11+45.77	4.30' RT	647.07	639.55 S	639.55 E	640.05 N	
CB B1	Catch Basin	60"	EJ 1020A or Neenah R-1713	12+06.43	7.24' RT	646.84	640.20 S	640.20 N	641.70 W	641.70 NE
INL B1-1	Inlet	24"	EJ 1020M1 or Neenah R-2015	12+10.04	12.26' RT	646.58	641.80 SW			
INL B1-2	Inlet	24"	EJ 1020M1 or Neenah R-2015	12+10.12	12.36' LT	646.58	642.34 E			
MH B2	Manhole	48"	EJ 1020A or Neenah R-1713	12+89.69	4.00' RT	646.66	640.40 S	640.40 NE	641.90 W	641.90 E
INL B2-1	Inlet	24"	EJ 1020M1 or Neenah R-2015	12+92.55	11.96' RT	646.38	642.00 W			
INL B2-2	Inlet	24"	EJ 1020M1 or Neenah R-2015	12+92.18	12.31' LT	646.55	642.40 E			
MH B3	Manhole	48"	EJ 1020A or Neenah R-1713	13+38.13	6.62' RT	646.36	640.60 SW	640.60 NE	641.60 NW	641.60 E
INL B3-1	Inlet	24"	EJ 1020M1 or Neenah R-2015	13+39.25	11.78' RT	646.13	641.70 W			
INL B3-2	Inlet	24"	EJ 1020M1 or Neenah R-2015	13+39.33	12.63' LT	646.17	641.85 SE			
MH B4	Manhole	48"	EJ 1020A or Neenah R-1713	13+70.88	6.11' RT	646.31	640.70 SW	640.70 NE		
CB B5	Catch Basin	48"	EJ 1020A or Neenah R-1713	14+22.72	3.65' RT	646.22	640.85 SW	640.85 NE	641.85 NW	641.85 SE
INL B5-1	Inlet	24"	EJ 1020M1 or Neenah R-2015	14+23.34	11.22' RT	645.85	641.95 NW			
INL B5-2	Inlet	24"	EJ 1020M1 or Neenah R-2015	14+24.83	8.73' LT	645.83	642.20 SE			
MH B6	Manhole	48"	EJ 1020A or Neenah R-1713	14+87.25	7.42' RT	645.90	641.05 SW	641.05 E	642.05 N	642.05 SE
INL B6-1	Inlet	24"	EJ 1020M1 or Neenah R-2015	14+89.45	13.50' RT	645.61	642.15 NW			
INL B6-2	Inlet	24"	EJ 1020M1 or Neenah R-2015	14+91.31	10.92' LT	645.54	642.60 S			
MH B7	Manhole	48"	EJ 1020A or Neenah R-1713	15+77.60	6.00' RT	645.67	641.30 W	641.30 E	642.30 N	642.30 SE
INL B7-1	Inlet	24"	EJ 1020M1 or Neenah R-2015	15+83.98	12.45' RT	645.36	642.45 NW			
INL B7-2	Inlet	24"	EJ 1020M1 or Neenah R-2015	15+83.14	11.85' LT	645.40	642.70 S			
CB B8	Catch Basin	48"	EJ 1020A or Neenah R-1713	16+53.03	6.57' RT	645.38	641.50 W	641.50 E	642.00 N	642.00 S
INL B8-1	Inlet	24"	EJ 1020M1 or Neenah R-2015	16+54.85	11.58' RT	645.17	642.05 NE			
INL B8-2	Inlet	24"	EJ 1020M1 or Neenah R-2015	16+54.11	12.74' LT	645.17	642.15 S			
MH B9	Manhole	48"	EJ 1020A or Neenah R-1713	17+34.55	6.89' RT	645.18	641.70 W	641.70 E	641.95 N	641.95 SE
INL B9-1	Inlet	24"	EJ 1020M1 or Neenah R-2015	17+39.52	11.90' RT	644.93	642.00 NW			
INL B9-2	Inlet	24"	EJ 1020M1 or Neenah R-2015	17+37.12	12.62' LT	644.90	642.10 S			
MH B10	Manhole	48"	EJ 1020A or Neenah R-1713	18+17.87	7.11' RT	644.96	641.93 W	641.93 E	642.00 S	642.00 N
INL B10-1	Inlet	24"	EJ 1020M1 or Neenah R-2015	18+18.10	12.11' RT	644.72	642.05 N			
INL B10-2	Inlet	24"	EJ 1020M1 or Neenah R-2015	18+18.02	12.20' LT	644.52	642.10 S			
MH B11	Manhole	48"	EJ 1020A or Neenah R-1713	18+77.27	7.01' RT	644.81	642.08 W	642.08 S	642.08 N	
INL B11-1	Inlet	24"	EJ 1020M1 or Neenah R-20							



EXISTING CONDITIONS PLAN



DEMOLITION PLAN

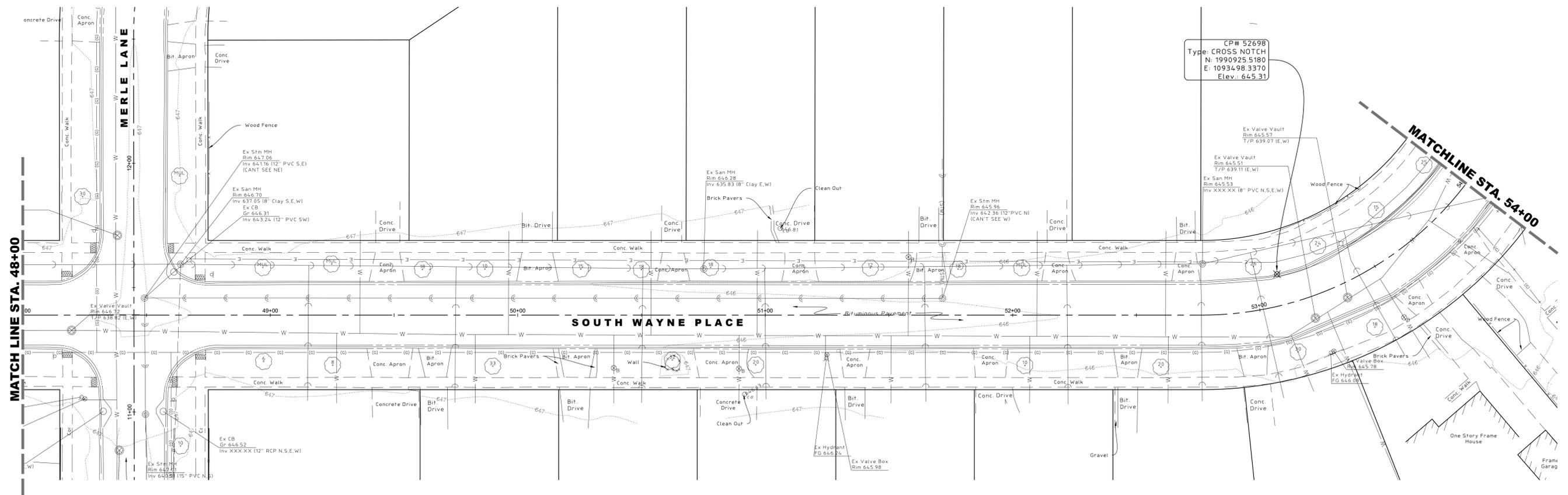


No.	Date	Revision
2	04-17-2020	Addendum Plan Revisions
1	04-01-2020	Village Review

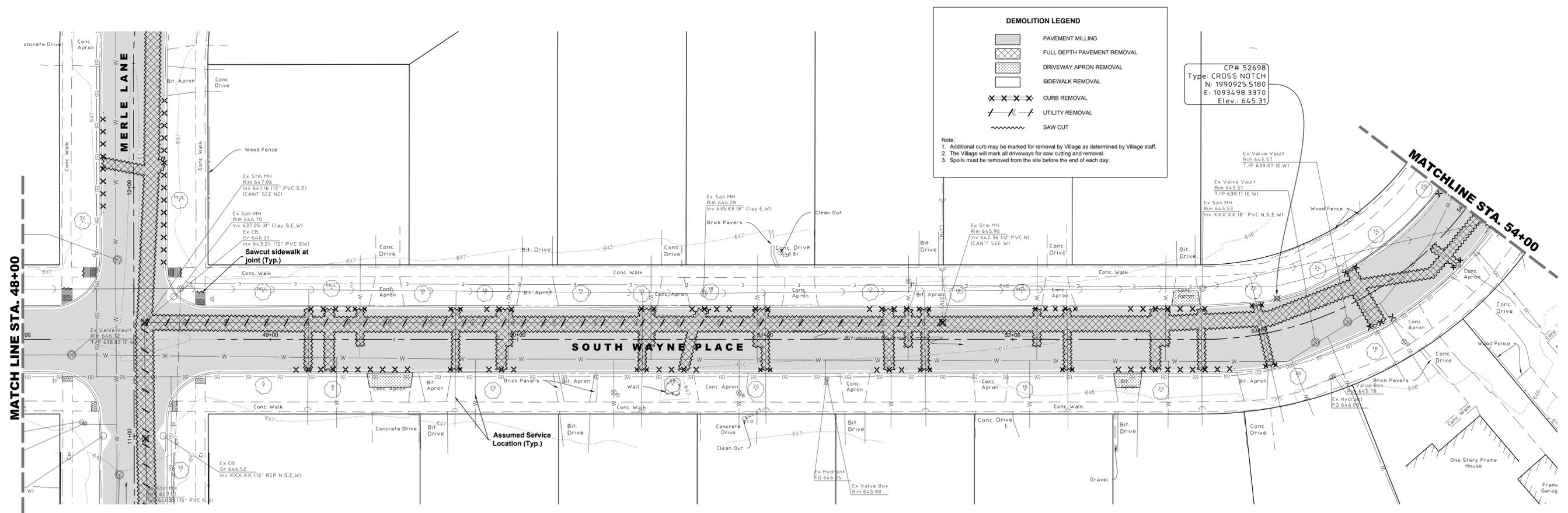
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EXISTING CONDITIONS AND DEMOLITION PLAN
DUNHURST RELIEF STORM SEWER IMPROVEMENT PLANS
 WHEELING, ILLINOIS

Project Manager: KML
 Engineer: KML
 Date: 02-21-2020
 Project No. 19-185
 Sheet **C3.0** of C9



EXISTING CONDITIONS PLAN



DEMOLITION PLAN

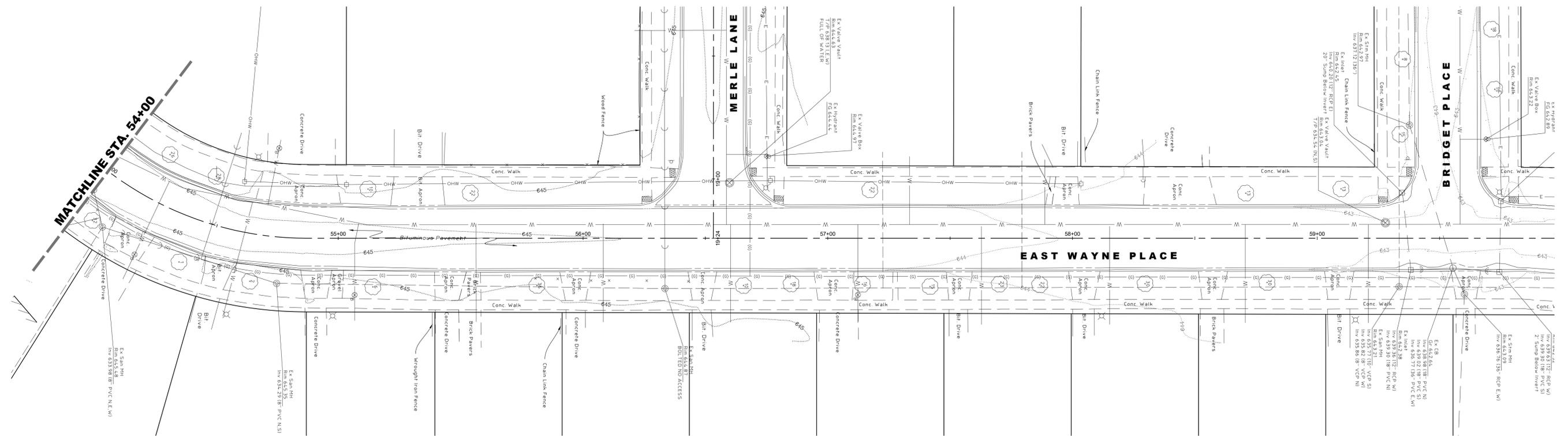
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EXISTING CONDITIONS AND DEMOLITION PLAN
DUNHURST RELIEF STORM SEWER IMPROVEMENT PLANS
 WHEELING, ILLINOIS

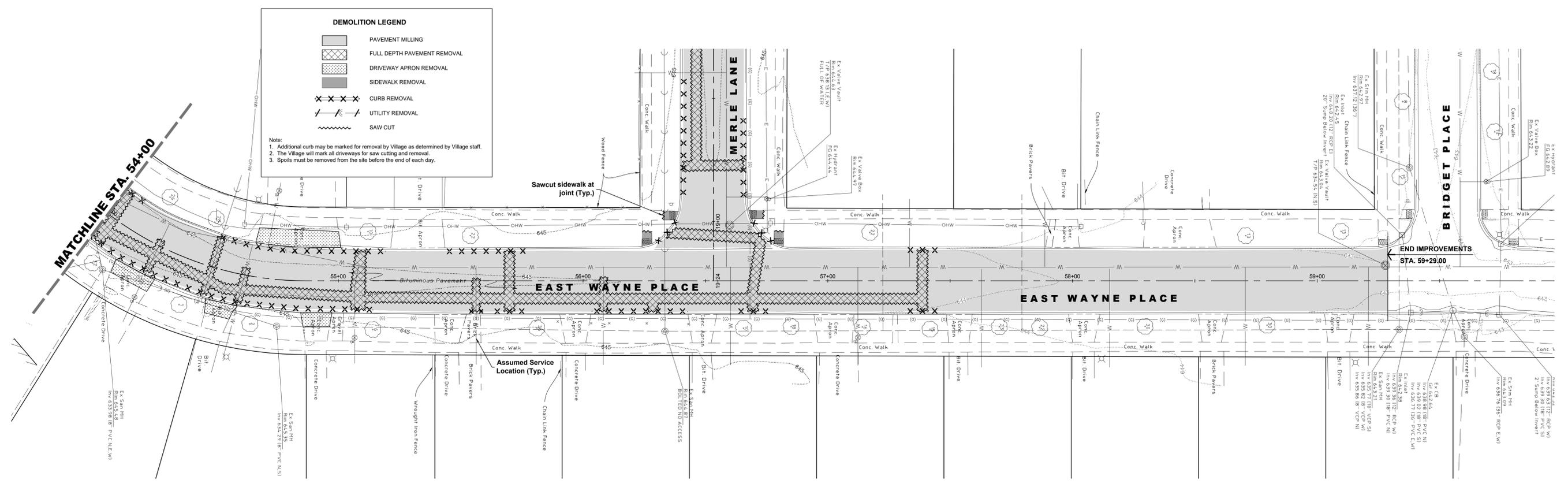
Project Manager: KML
 Engineer: KML
 Date: 02-21-2020
 Project No. 19-185
 Sheet **C3.1** of C9



Scale: 1" = 20'



EXISTING CONDITIONS PLAN



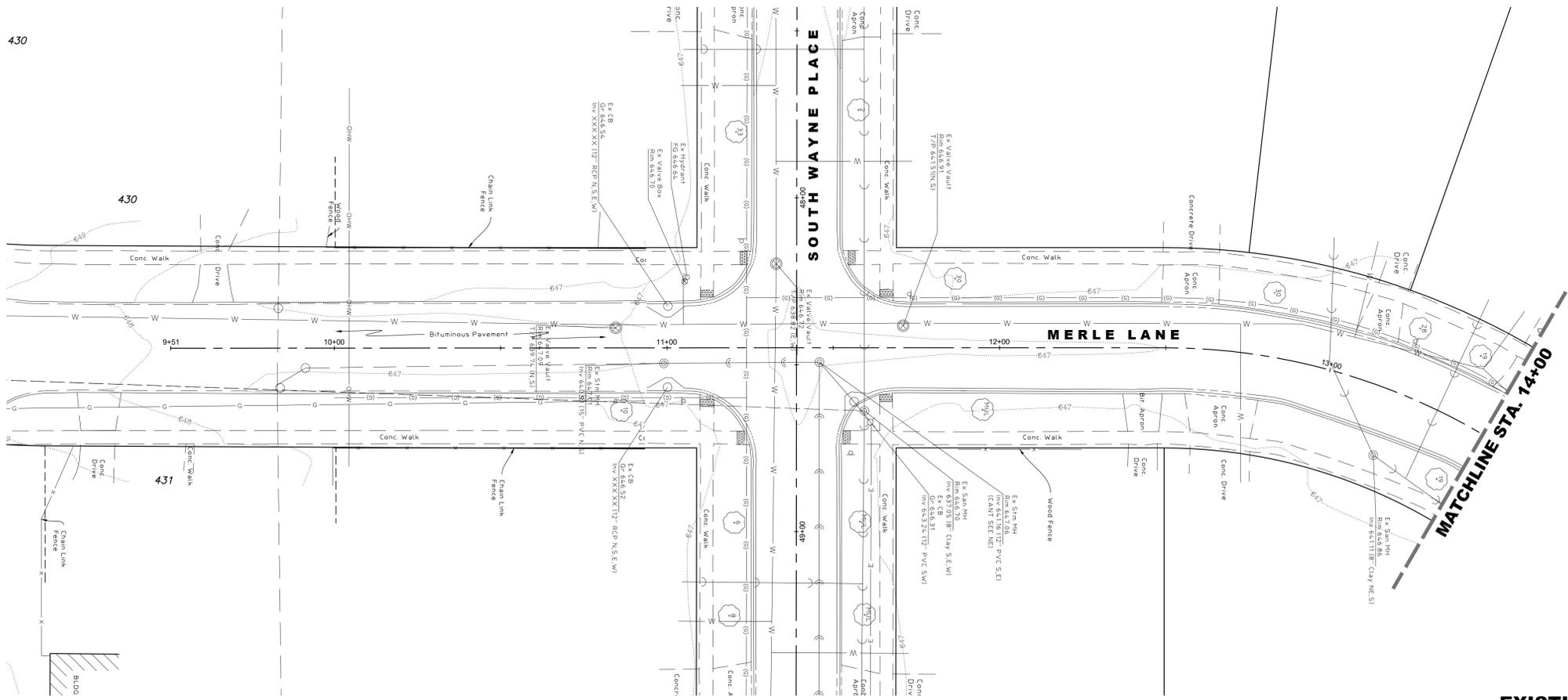
DEMOLITION PLAN

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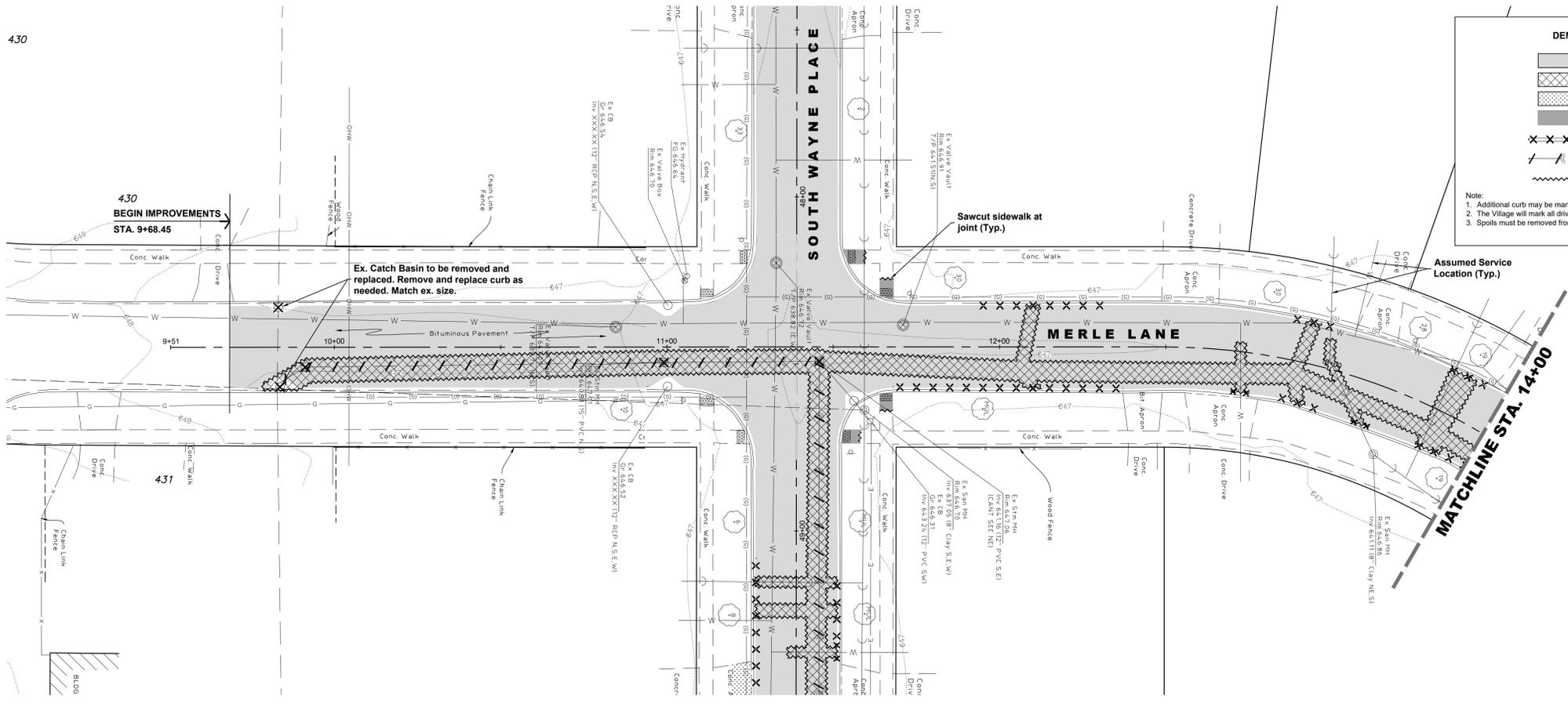
EXISTING CONDITIONS AND DEMOLITION PLAN
DUNHURST RELIEF STORM SEWER IMPROVEMENT PLANS
WHEELING, ILLINOIS

Project Manager: KML
Engineer: KML
Date: 02-21-2020
Project No. 19-185
Sheet **C3.2** / C9

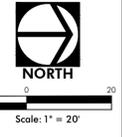
No.	Date	Revision
2	04-01-2020	Village Review
1	04-01-2020	Appendium Plan Revisions



EXISTING CONDITIONS PLAN



DEMOLITION PLAN

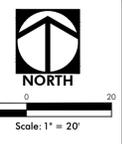
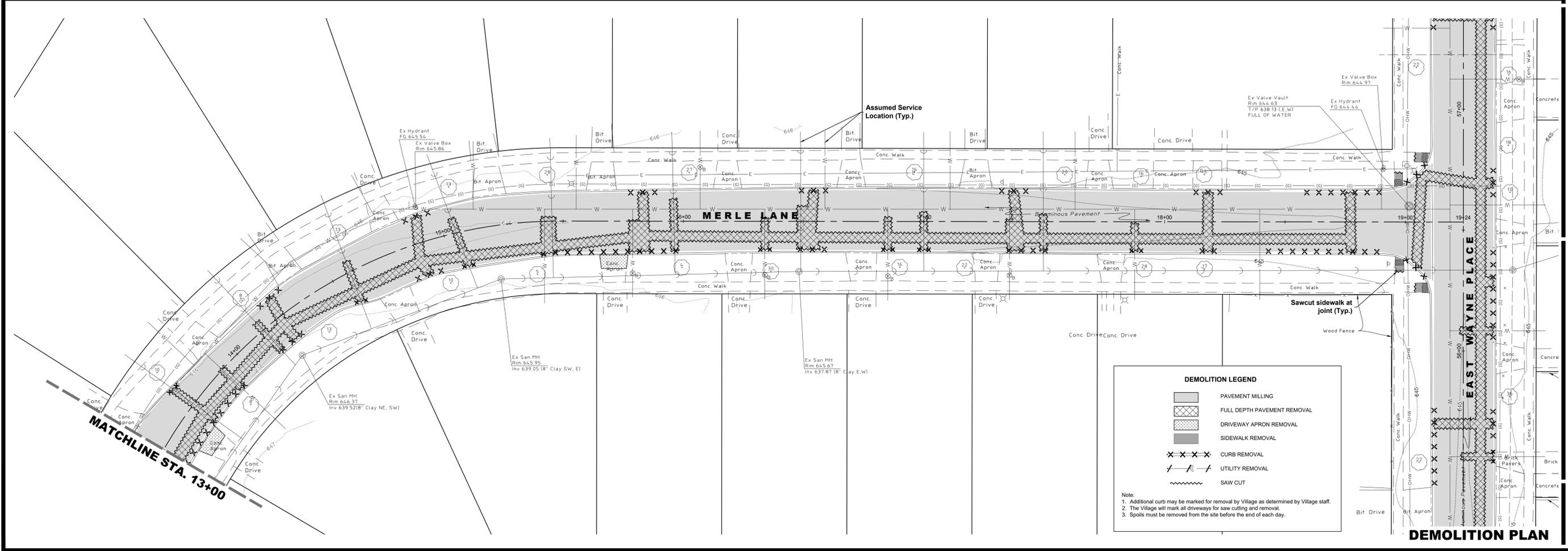
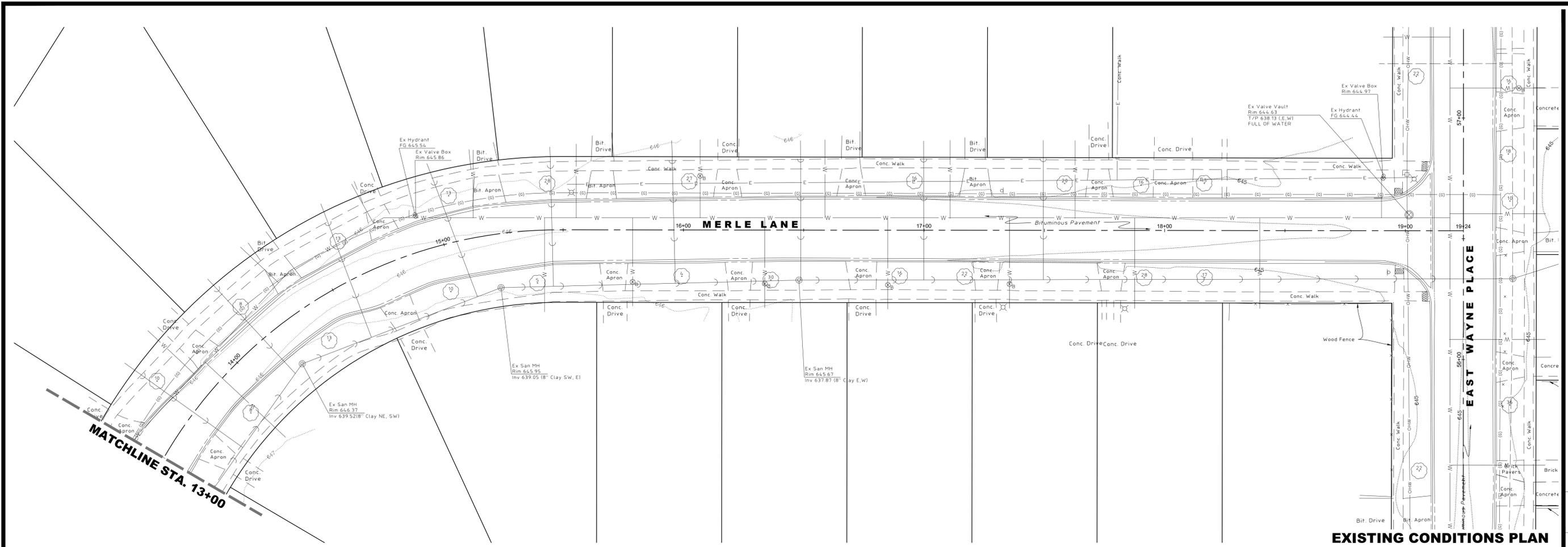


No.	Date	Revision
2	04-17-2020	Appendium Plan Revisions
1	04-01-2020	Village Review

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EXISTING CONDITIONS AND DEMOLITION PLAN
DUNHURST RELIEF STORM SEWER IMPROVEMENT PLANS
 WHEELING, ILLINOIS

Project Manager: KML
 Engineer: KML
 Date: 02-21-2020
 Project No. 19-185
 Sheet **C3.3** of C9



No.	Date	Revision
1	04-17-2020	Additional Plan Revisions
2	04-01-2020	Village Review

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EXISTING CONDITIONS AND DEMOLITION PLAN
DUNHURST RELIEF STORM SEWER IMPROVEMENT PLANS
WHEELING, ILLINOIS

Project Manager: KML
Engineer: KML
Date: 02-21-2020
Project No. 19-185
Sheet **C3.4**



Scale: 1" = 20'

PAVING LEGEND

	BITUMINOUS PAVEMENT - FULL DEPTH 2" Hot-Mix Asphalt (HMA) Surface Course, Mix C, N50 5" Hot-Mix Asphalt (HMA) Binder Course, II-19.0, N50 4" Aggregate Base Course, Type 1B, CA-6, Crushed Aggregate (CA-6 Gr 8, Crushed Limestone, Virgin)
	BITUMINOUS PAVEMENT OVERLAY 2" Hot-Mix Asphalt (HMA) Surface Course, Mix C, N50
	CONCRETE DRIVEWAY APRON 5" Portland Cement Concrete (Class IV) 4" Aggregate Base Course (CA-6, Gr 8 or Gr 9, Virgin)
	ASPHALT DRIVEWAY APRON 5" Compacted Asphalt, in 2 lifts 3" Compacted Crushed Limestone (CA-6, Gr 8 or Gr 9, Virgin)
	CONCRETE SIDEWALK - STANDARD 5" Portland Cement Concrete (Class III) 4" Aggregate Base Course, CA-6, Crushed

- NOTES:**
- TRAFFIC CONTROL:**
- Moving traffic control must be utilized. Storm crossings will need to be completed one half at a time to maintain access to residents. One lane of traffic in work areas shall be open at all times. Flaggers will be needed.
- DRIVEWAY APRON REPLACEMENT:**
- All existing driveway aprons shall remain in place, unless shown otherwise on these plans or directed in the field by the Village of Wheeling. The Village will mark all driveways for saw cutting and removal. Any additional apron removals and/or replacements shall be done at the expense of the Contractor.
 - Any bituminous aprons to be removed shall be saw-cut 1/2 the distance between the back of curb and sidewalk and replaced per Village Standards.
 - Any concrete aprons to be removed shall be saw-cut at the nearest joint. If no joint is available within the parkway, then the apron shall be saw-cut 1/2 the distance between the back of curb and sidewalk.
- STRIPING REPLACEMENT:**
- All existing striping, including stop bars and crosswalks, shall be replaced upon completion of paving activities in accordance with IDOT standards.
- DRIVEWAY CLOSINGS:**
- It will be the Contractor's responsibility to notify residents and the Village 2 days in advance when access to the residents' driveways will be temporarily closed due to curb and gutter and/or driveway replacement. The Contractor shall distribute notices APPROVED by the Village, to the residents/property owners. Every effort shall be made to accommodate access to the properties.

- QUANTITY ASSUMPTIONS:**
- The limits of all driveway apron, sidewalk, and curb and gutter removal and replacement shall be directed in the field by the Village of Wheeling.

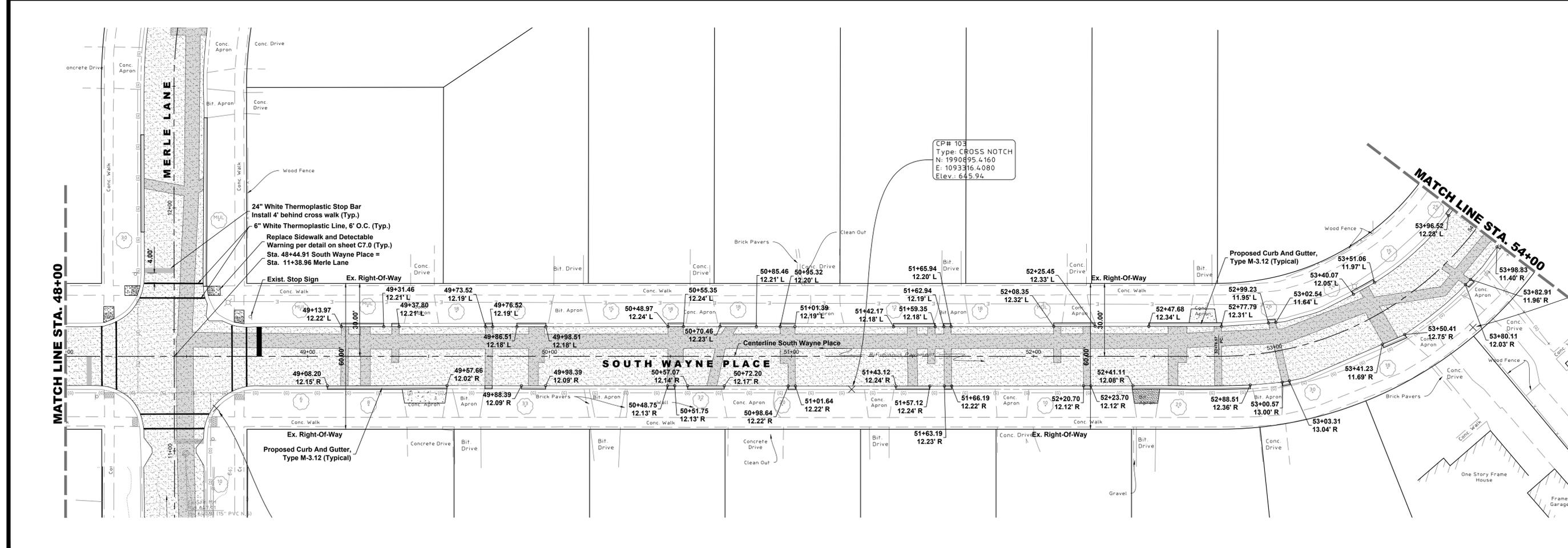
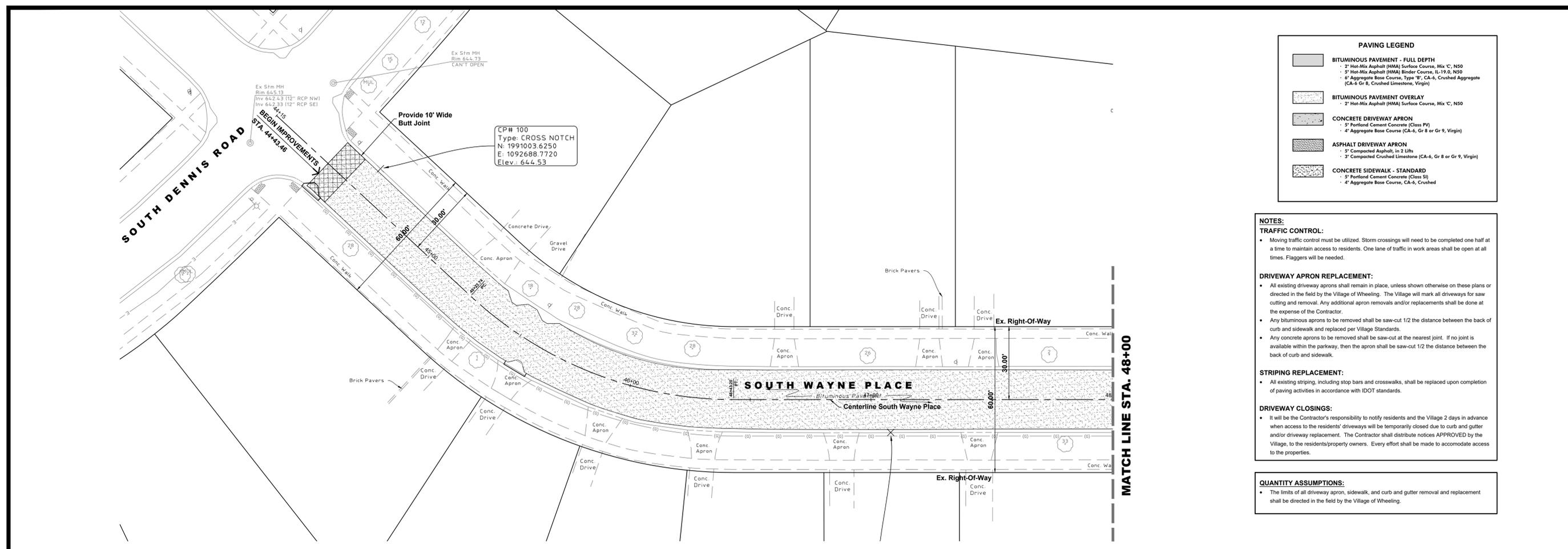
No.	Date	Revision
1	04-17-2020	Additional Plan Revisions
2	04-01-2020	Village Review

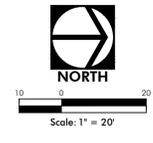
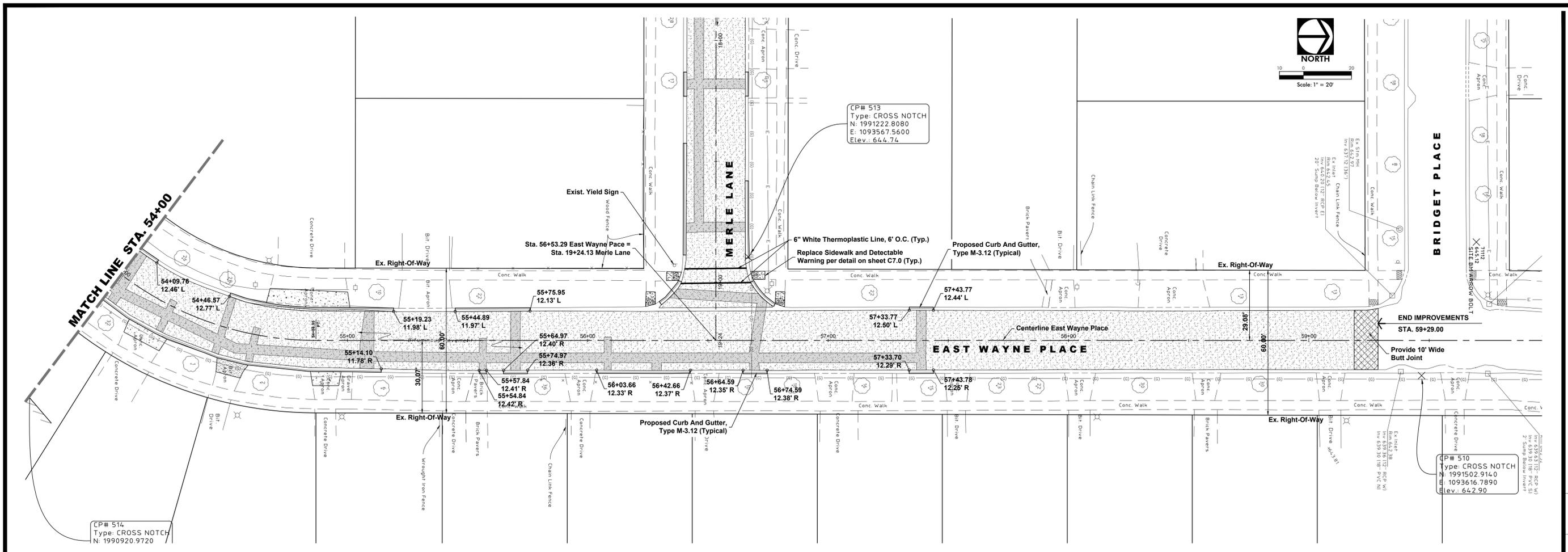
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GEOMETRY AND PAVING PLAN - SOUTH WAYNE PLACE
DUNHURST RELIEF STORM SEWER IMPROVEMENT PLANS
WHEELING, ILLINOIS

Project Manager: KML
Engineer: KML
Date: 02-21-2020
Project No. 19-185
Sheet **C4.0** of C9





BRIDGET PLACE

MERLE LANE

EAST WAYNE PLACE

MATCH LINE STA. 54+00

END IMPROVEMENTS STA. 59+29.00

CP# 514
Type: CROSS NOTCH
N: 1990920.9720

CP# 513
Type: CROSS NOTCH
N: 1991222.8080
E: 1093567.5600
Elev.: 644.74

P# 510
Type: CROSS NOTCH
N: 1991502.9140
E: 1093616.7890
Elev.: 642.90

PAVING LEGEND	
	BITUMINOUS PAVEMENT - FULL DEPTH 2" Hot-Mix Asphalt (HMA) Surface Course, Mix C, NS0 5" Hot-Mix Asphalt (HMA) Binder Course, IL-19.0, NS0 6" Aggregate Base Course, Type "B", CA-6, Crushed Aggregate (CA-6, Gr 8, Crushed Limestone, Virgin)
	BITUMINOUS PAVEMENT OVERLAY 2" Hot-Mix Asphalt (HMA) Surface Course, Mix C, NS0
	CONCRETE DRIVEWAY APRON 5" Portland Cement Concrete (Class P) 4" Aggregate Base Course (CA-6, Gr 8 or Gr 9, Virgin)
	ASPHALT DRIVEWAY APRON 5" Compacted Asphalt, in 2 Lifts 3" Compacted Crushed Limestone (CA-6, Gr 8 or Gr 9, Virgin)
	CONCRETE SIDEWALK - STANDARD 5" Portland Cement Concrete (Class S) 4" Aggregate Base Course, CA-6, Crushed

- NOTES:**
- TRAFFIC CONTROL:**
- Moving traffic control must be utilized. Storm crossings will need to be completed one half at a time to maintain access to residents. One lane of traffic in work areas shall be open at all times. Flaggers will be needed.
- DRIVEWAY APRON REPLACEMENT:**
- All existing driveway aprons shall remain in place, unless shown otherwise on these plans or directed in the field by the Village of Wheeling. The Village will mark all driveways for saw cutting and removal. Any additional apron removals and/or replacements shall be done at the expense of the Contractor.
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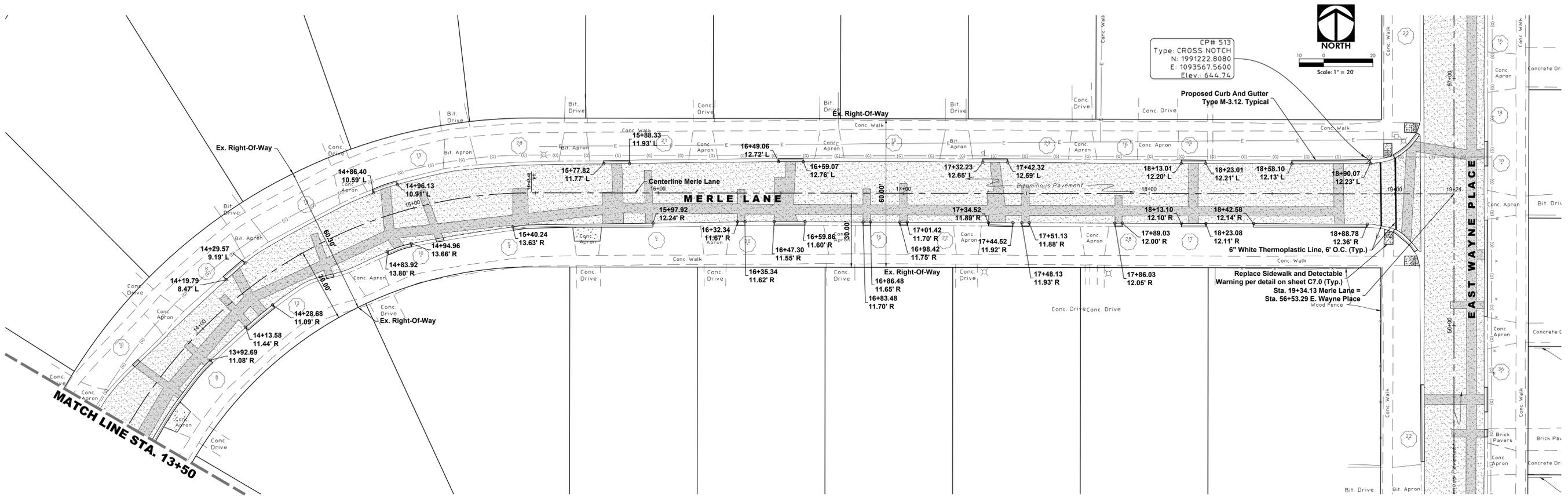
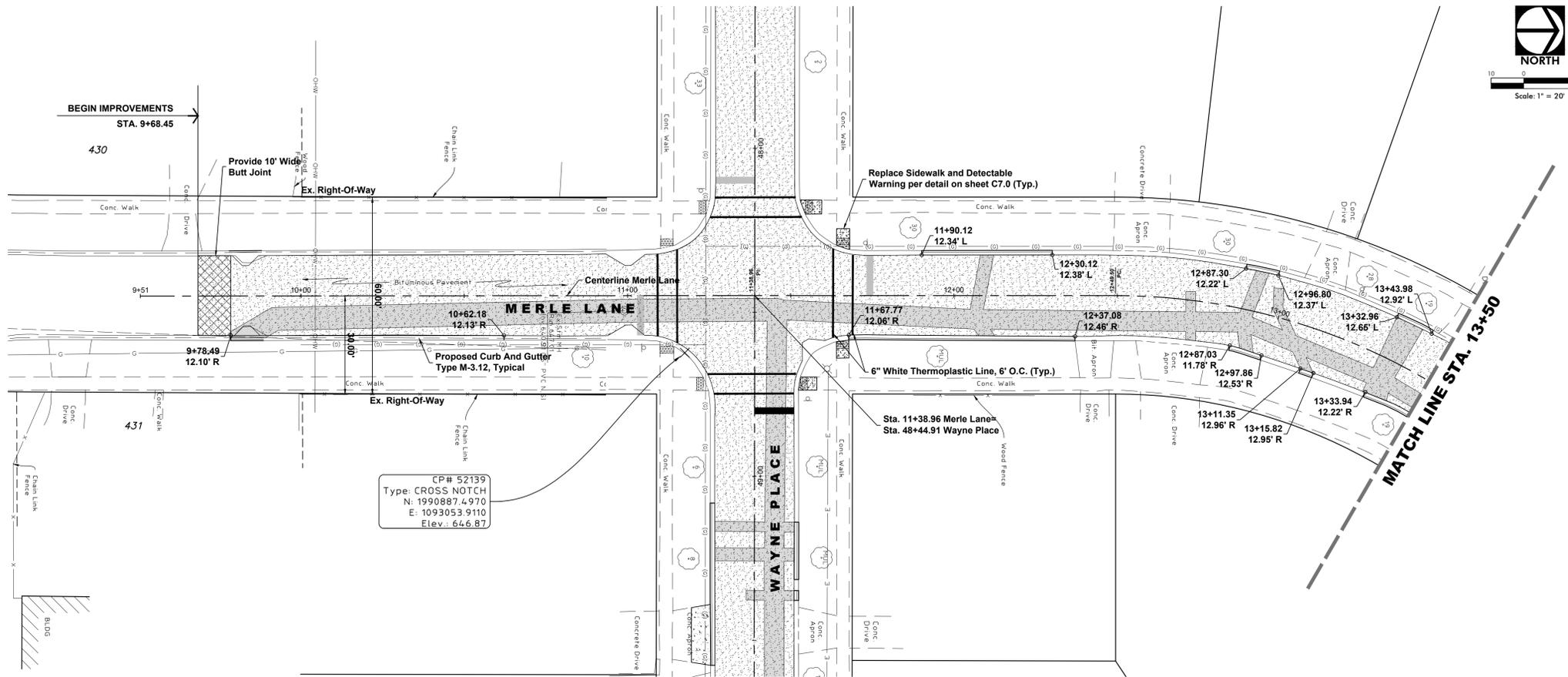
- QUANTITY ASSUMPTIONS:**
- The limits of all driveway apron, sidewalk, and curb and gutter removal and replacement shall be directed in the field by the Village of Wheeling.

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GEOMETRY AND PAVING PLAN - EAST WAYNE PLACE
DUNHURST RELIEF STORM SEWER IMPROVEMENT PLANS
 WHEELING, ILLINOIS

Project Manager: KML
 Engineer: KML
 Date: 02-21-2020
 Project No. 19-185
 Sheet **C4.1** / C9

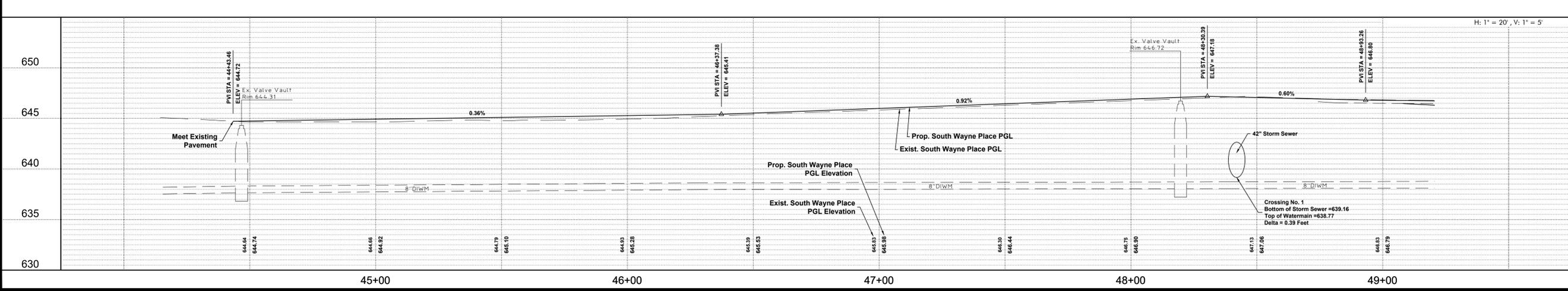
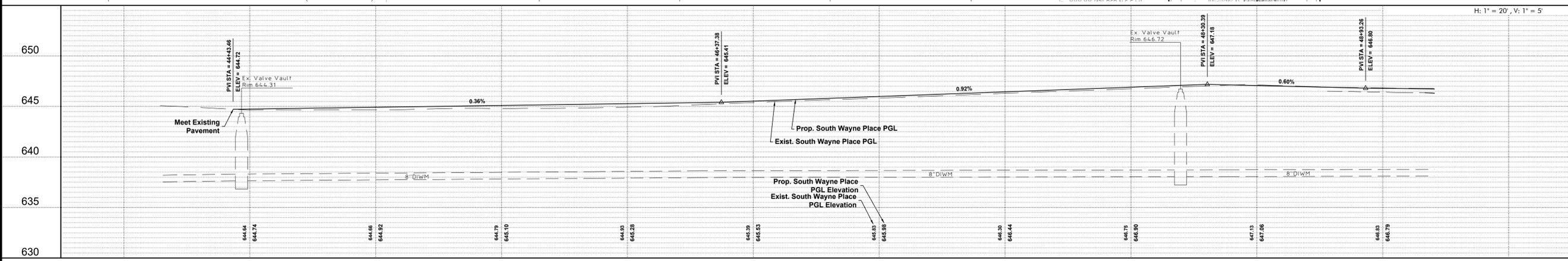
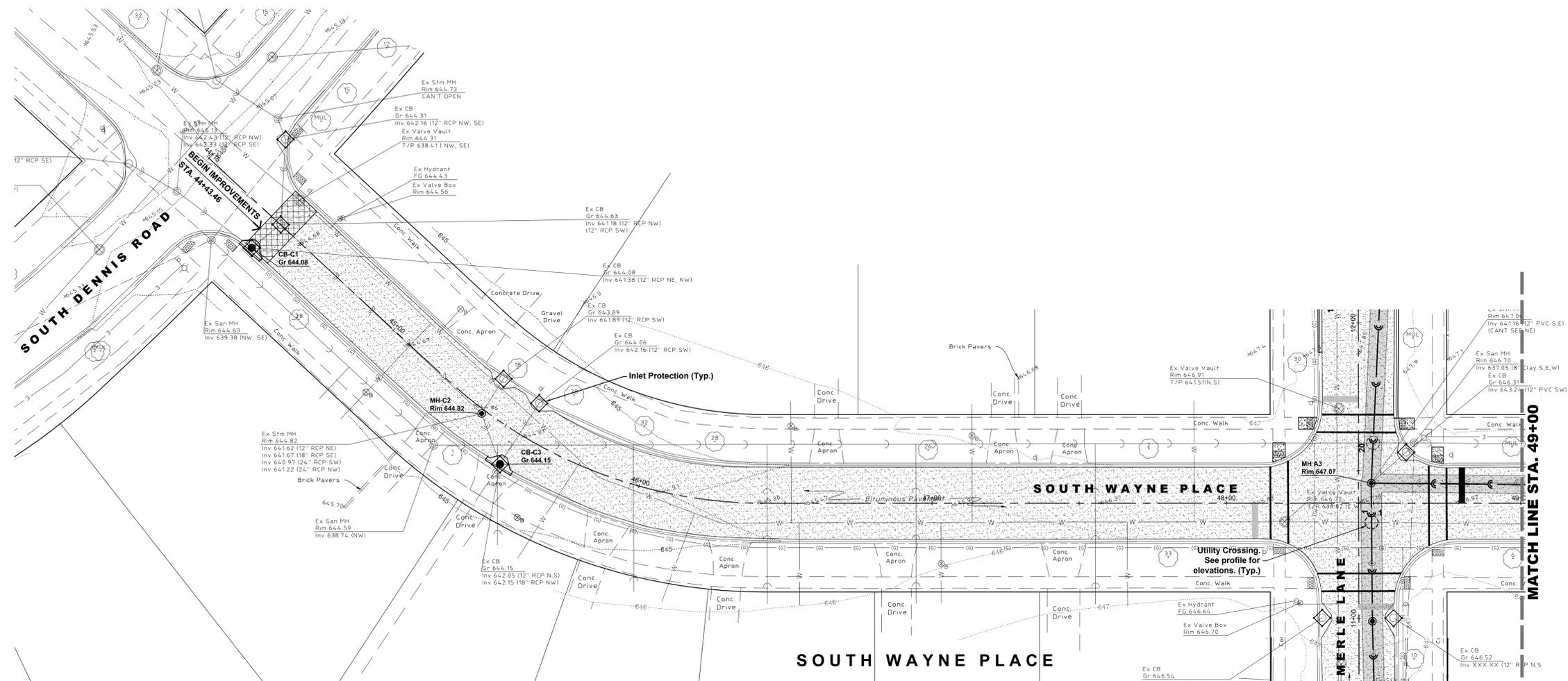
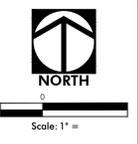
No.	Date	Revision
1	04-17-2020	Additional Plan Revisions
2	04-01-2020	Village Review



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GEOMETRY AND PAVING PLAN - MERLE LANE
DUNHURST RELIEF STORM SEWER IMPROVEMENT PLANS
WHEELING, ILLINOIS

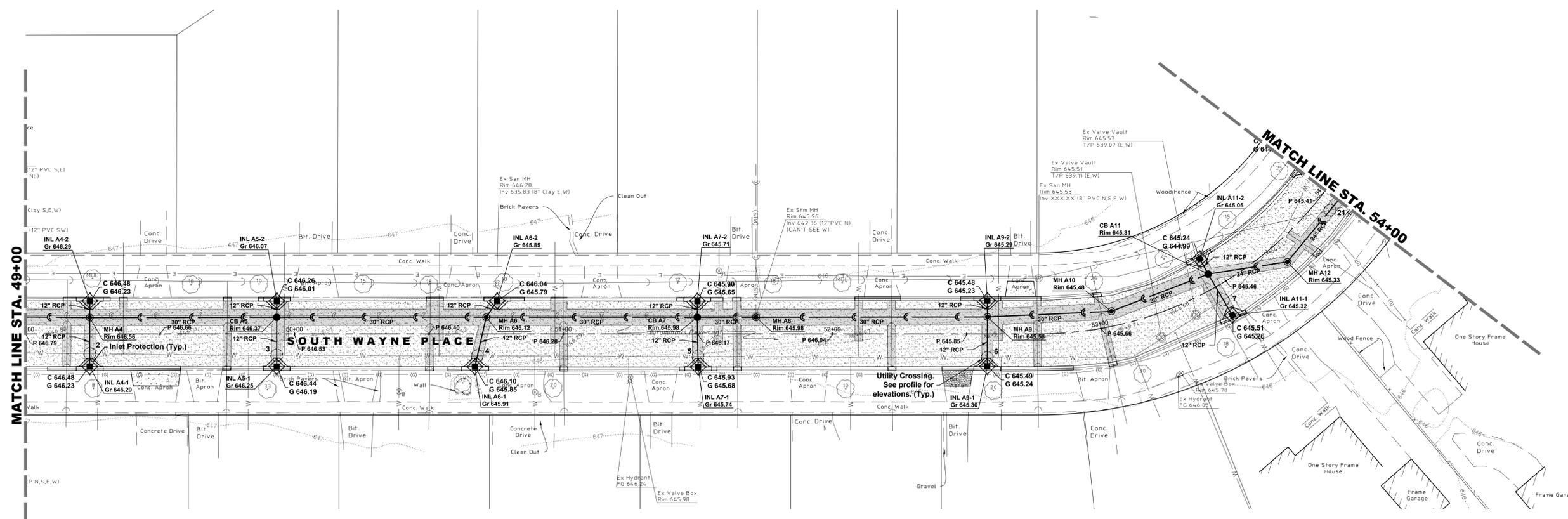
Project Manager: KML
Engineer: KML
Date: 02-21-2020
Project No. 19-185
Sheet **C4.2**



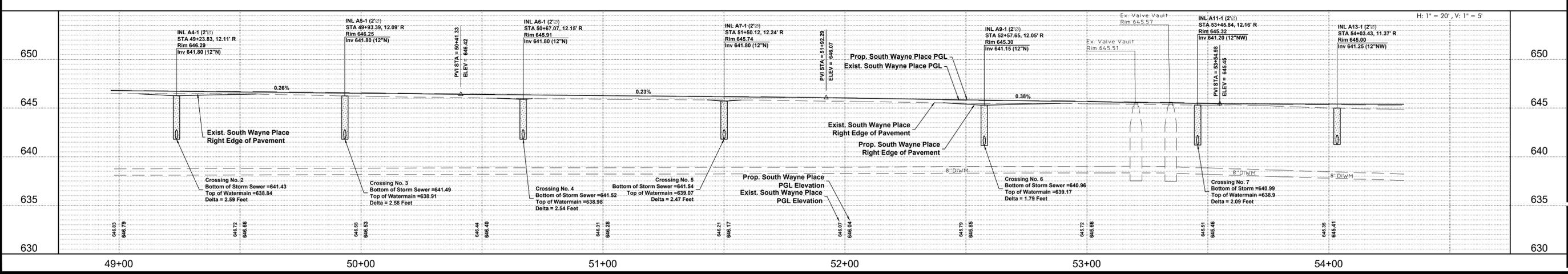
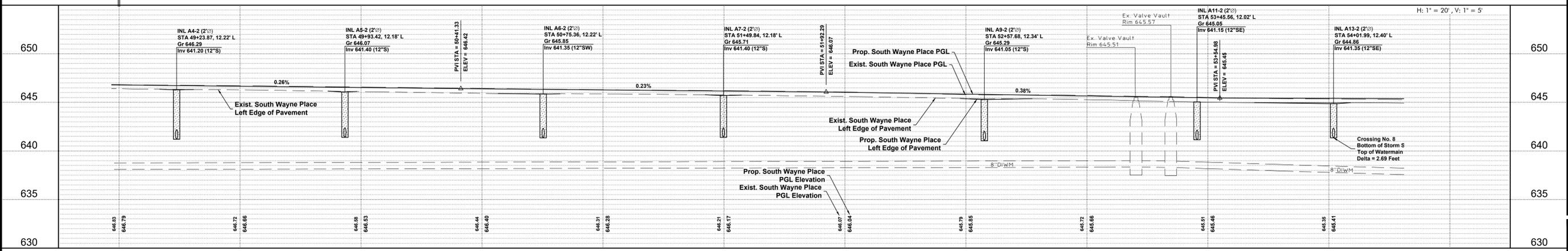
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DRAINAGE PLAN AND PROFILE - SOUTH WAYNE PLACE
DUNHURST RELIEF STORM SEWER IMPROVEMENT PLANS
 WHEELING, ILLINOIS

Project Manager: KML
 Engineer: KML
 Date: 02-21-2020
 Project No. 19-185
 Sheet **C5.0** / C9



SOUTH WAYNE PLACE



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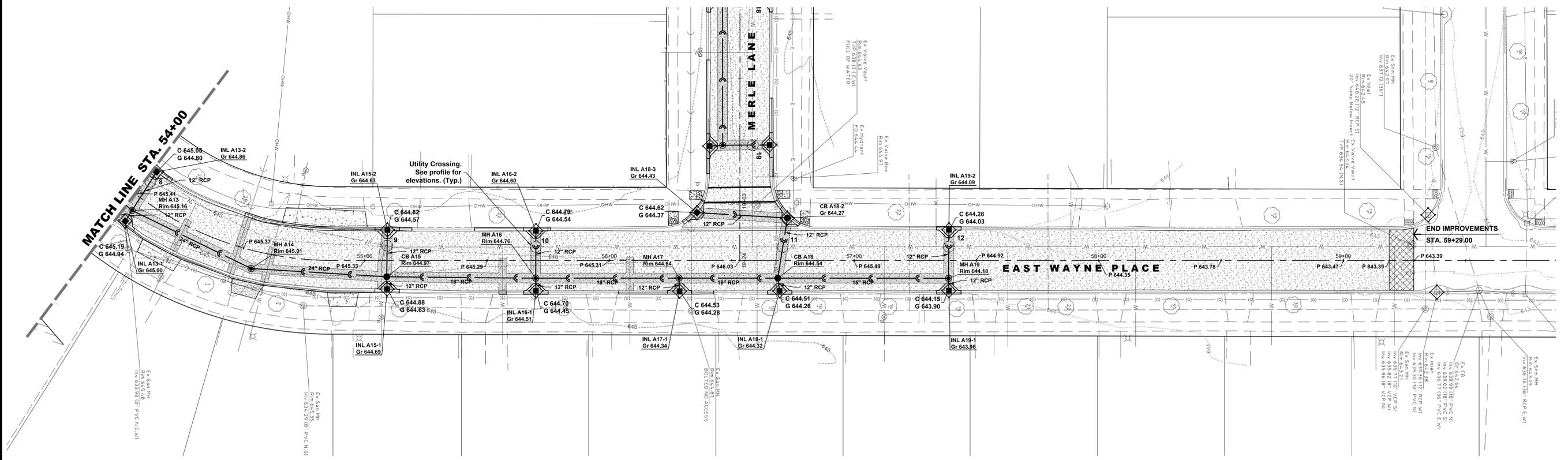
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DRAINAGE PLAN AND PROFILE - SOUTH WAYNE PLACE
DUNHURST RELIEF STORM SEWER IMPROVEMENT PLANS
WHEELING, ILLINOIS

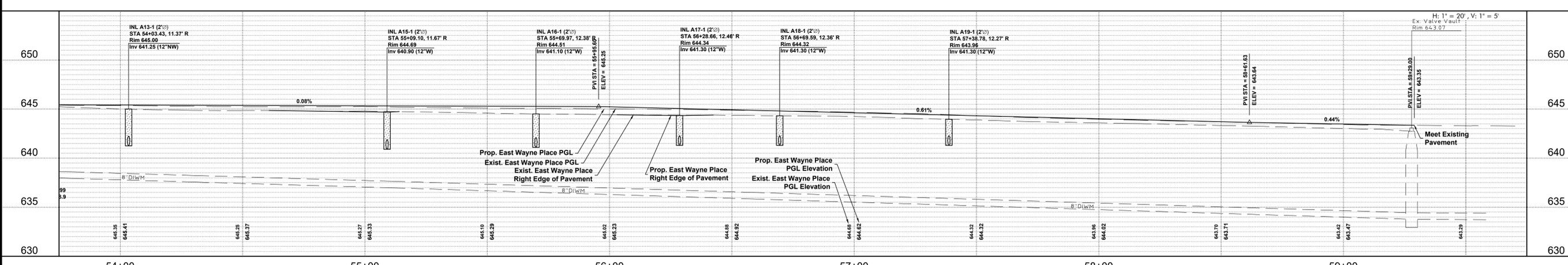
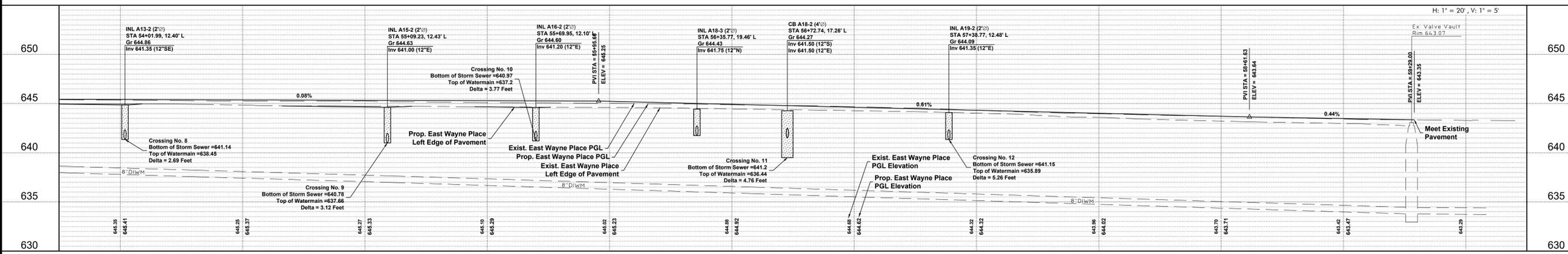
Project Manager: KML
Engineer: KML
Date: 02-21-2020
Project No: 19-185
Sheet **C5.1**



Scale: 1" = 20'



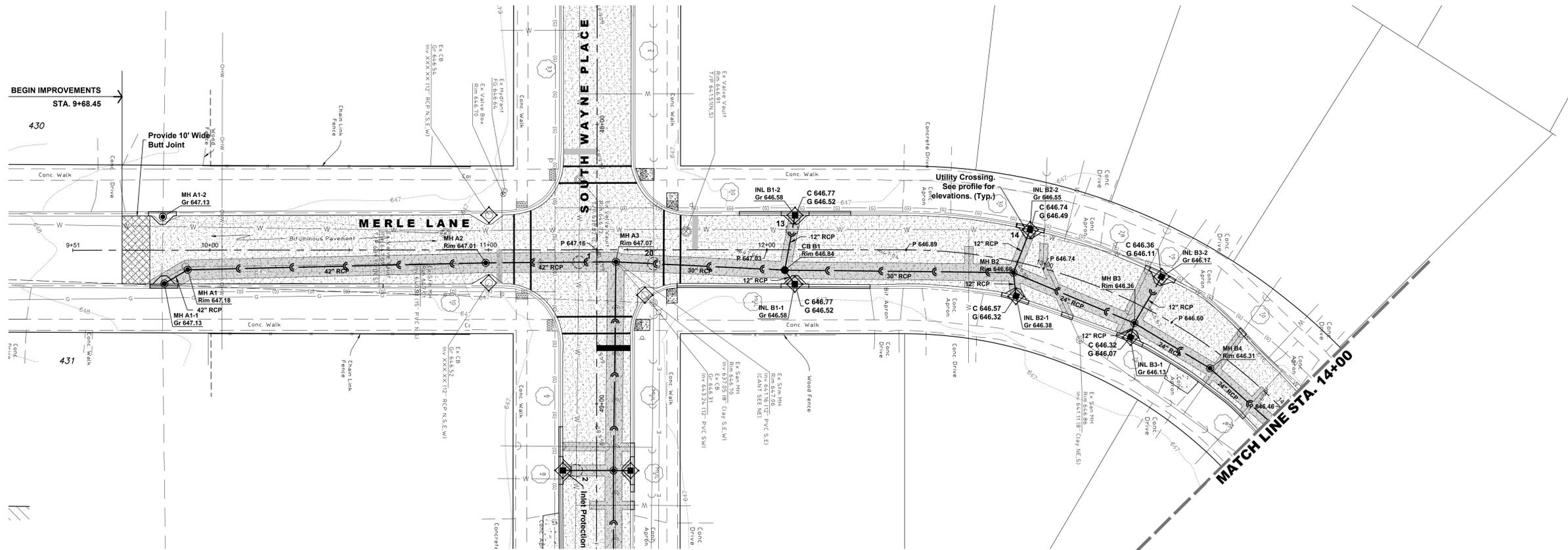
EAST WAYNE PLACE



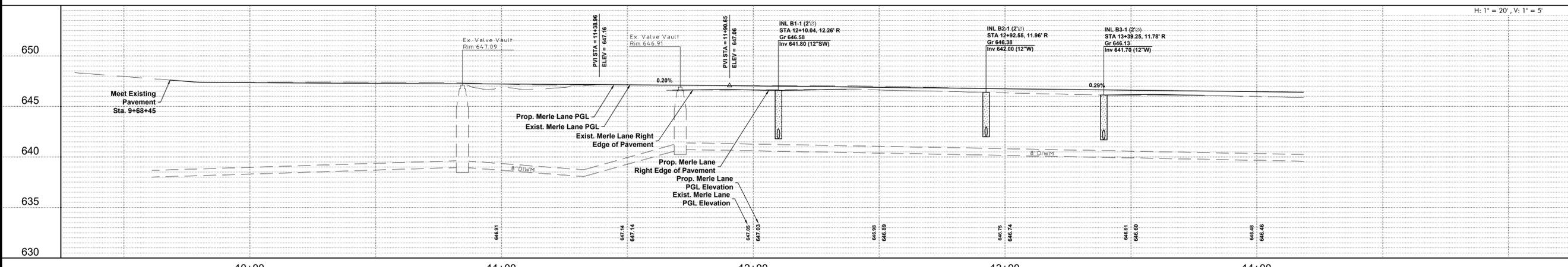
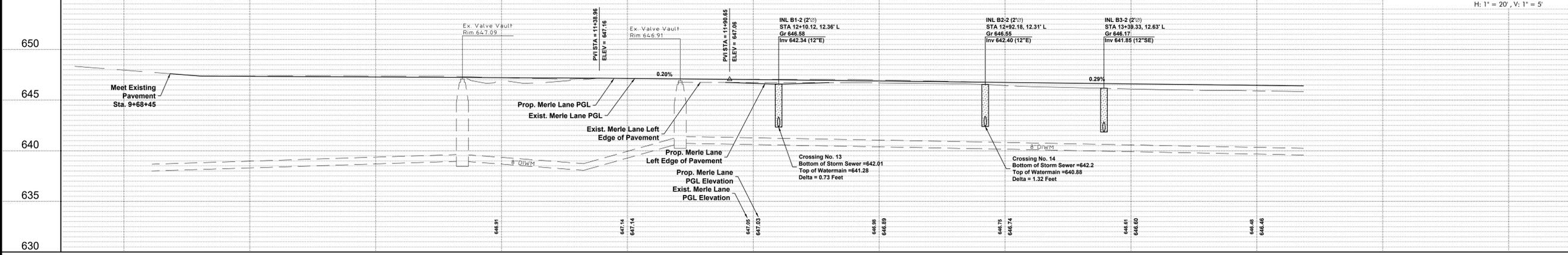
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Project Manager: KML
 Engineer: KML
 Date: 02-21-2020
 Project No. 19-185
 Sheet **C5.2** of C9

No.	Date	Revision
2	04-17-2020	Addendum Plan Revisions
1	04-01-2020	Village Review



MERLE LANE

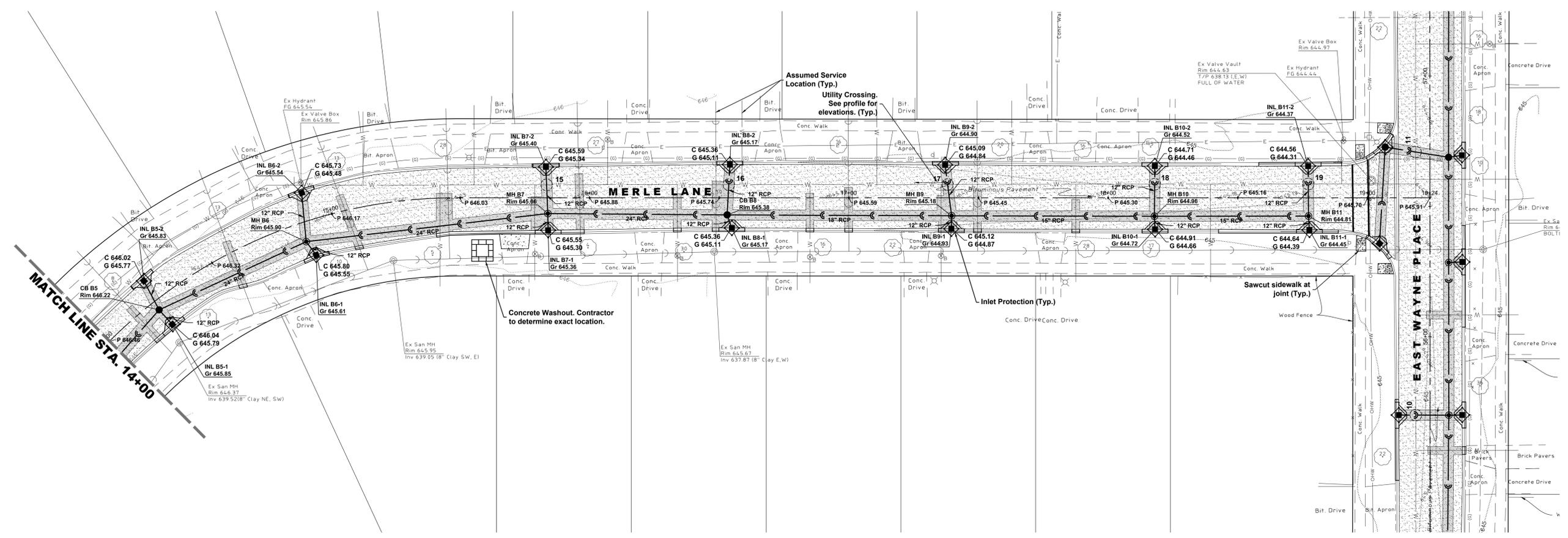


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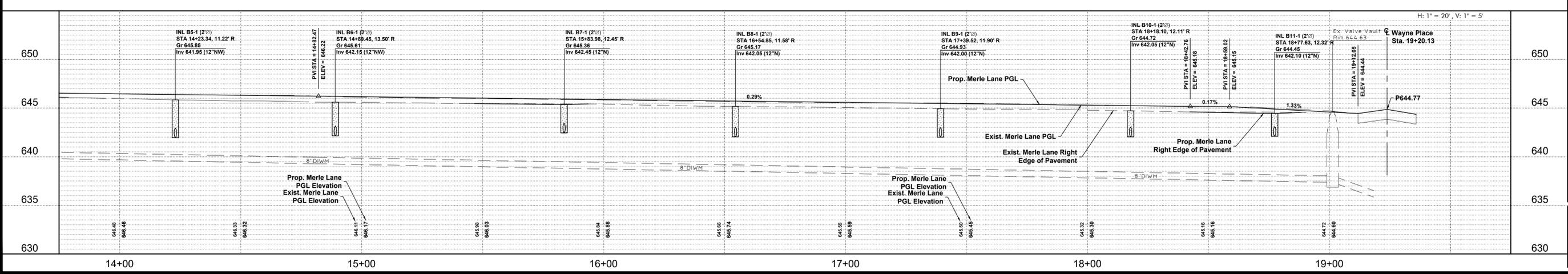
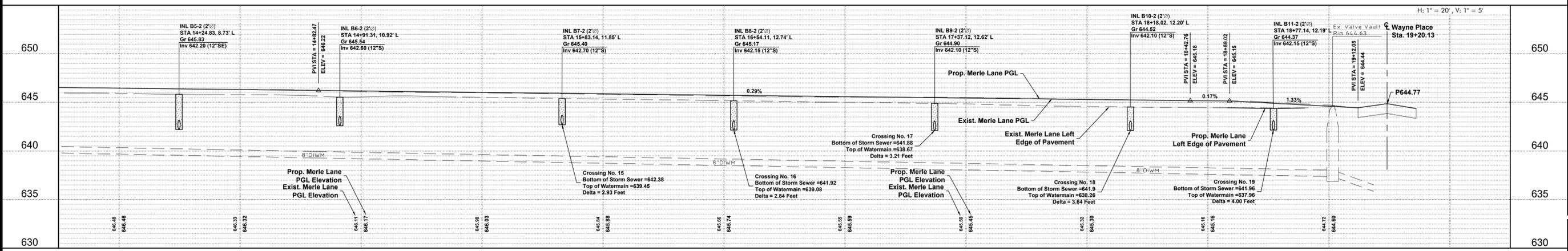
DRAINAGE PLAN AND PROFILE - MERLE LANE
DUNHURST RELIEF STORM SEWER IMPROVEMENT PLANS
 WHEELING, ILLINOIS

Project Manager: KML
 Engineer: KML
 Date: 02-21-2020
 Project No. 19-185
 Sheet **C5.3** of C9

No.	Date	Revision
2	04-17-2020	Additional Plan Revisions
1	04-01-2020	Village Review



MERLE LANE



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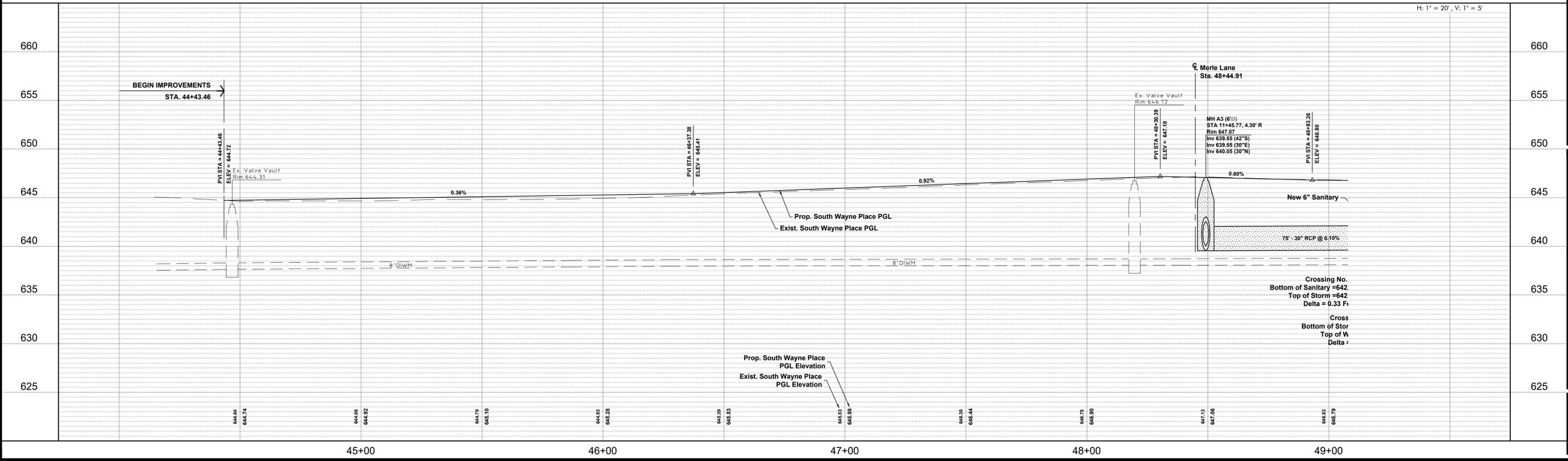
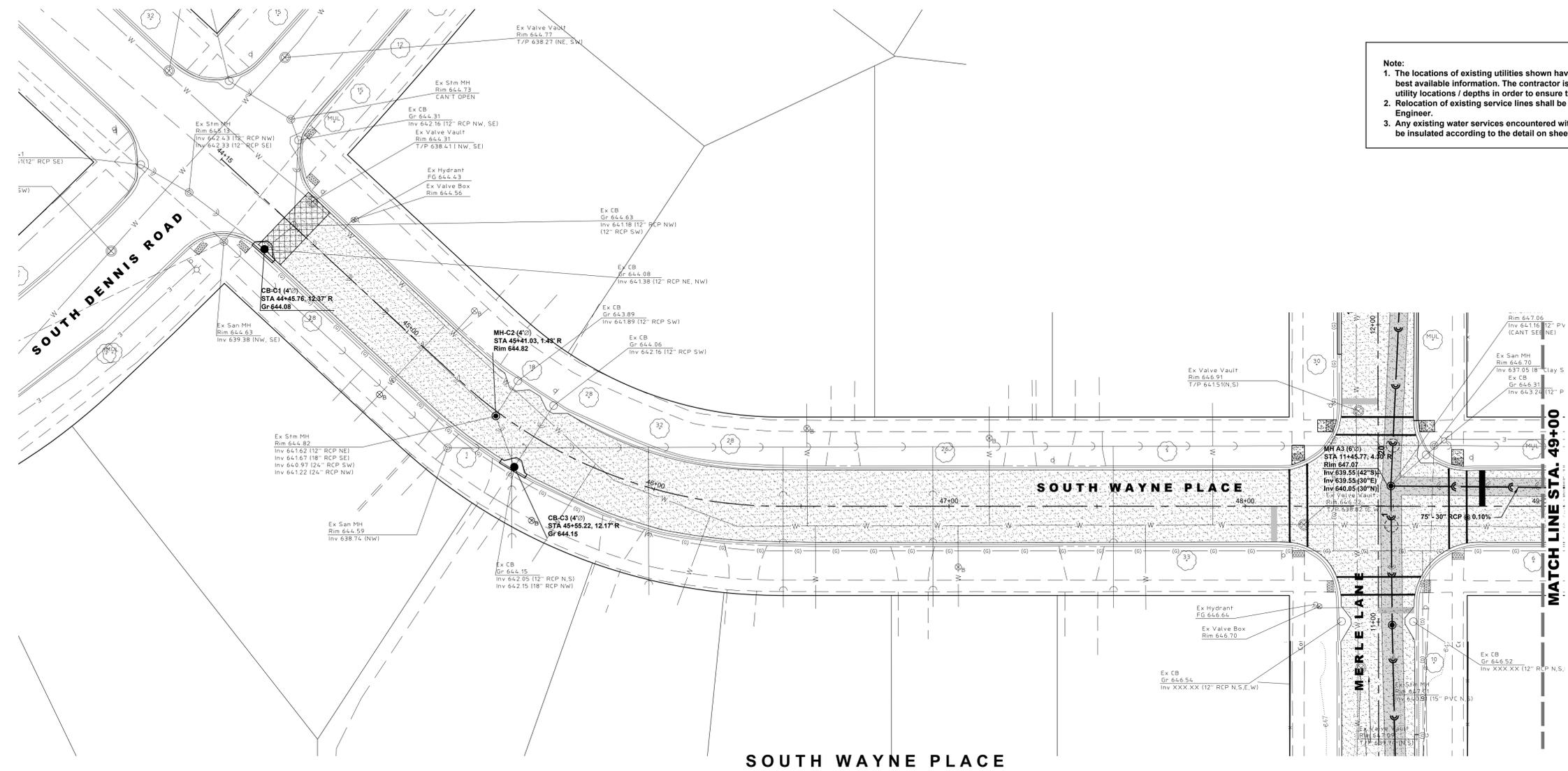
DRAINAGE PLAN AND PROFILE - MERLE LANE
DUNHURST RELIEF STORM SEWER IMPROVEMENT PLANS
WHEELING, ILLINOIS

Project Manager: KML
Engineer: KML
Date: 02-21-2020
Project No: 19-185
Sheet **C5.4** / C9

No.	Date	Revision
1	04-01-2020	Village Review
2	04-17-2020	Additional Plan Revisions



Note:
 1. The locations of existing utilities shown have been determined from the best available information. The contractor is responsible for verifying all utility locations / depths in order to ensure their protection.
 2. Relocation of existing service lines shall be coordinated with the Village Engineer.
 3. Any existing water services encountered with less than 5.5' of cover shall be insulated according to the detail on sheet C7.1.



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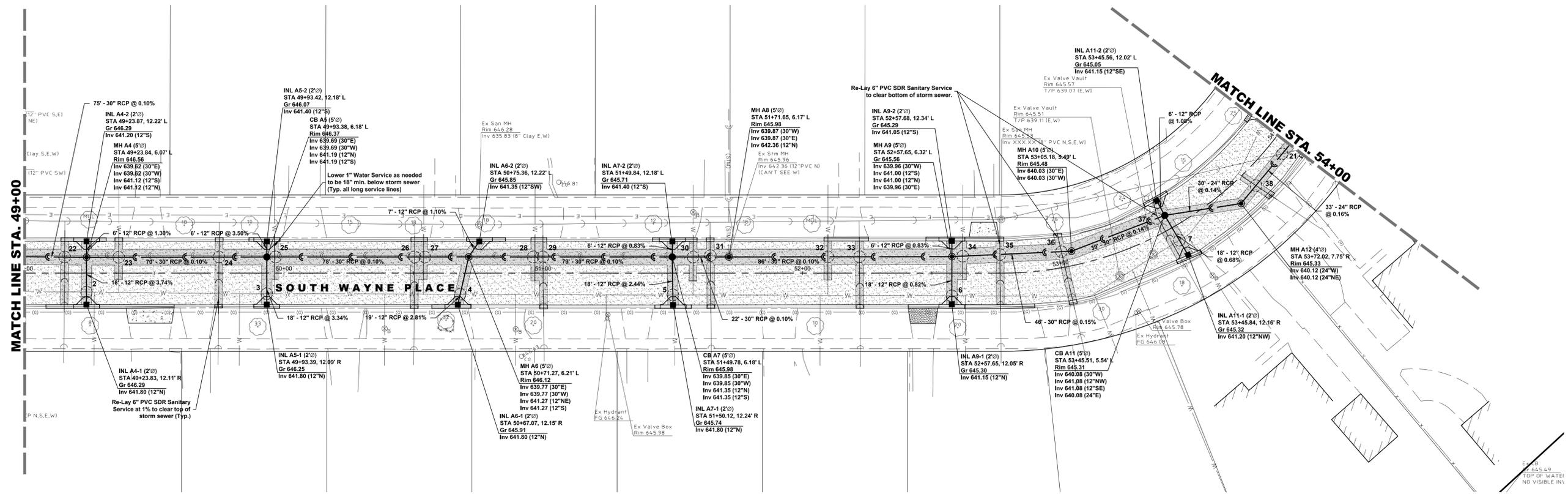
UTILITY PLAN AND PROFILE - SOUTH WAYNE PLACE
DUNHURST RELIEF STORM SEWER IMPROVEMENT PLANS
 WHEELING, ILLINOIS

Project Manager: KML
 Engineer: KML
 Date: 02-21-2020
 Project No. 19-185
 Sheet **C6.0** / C9

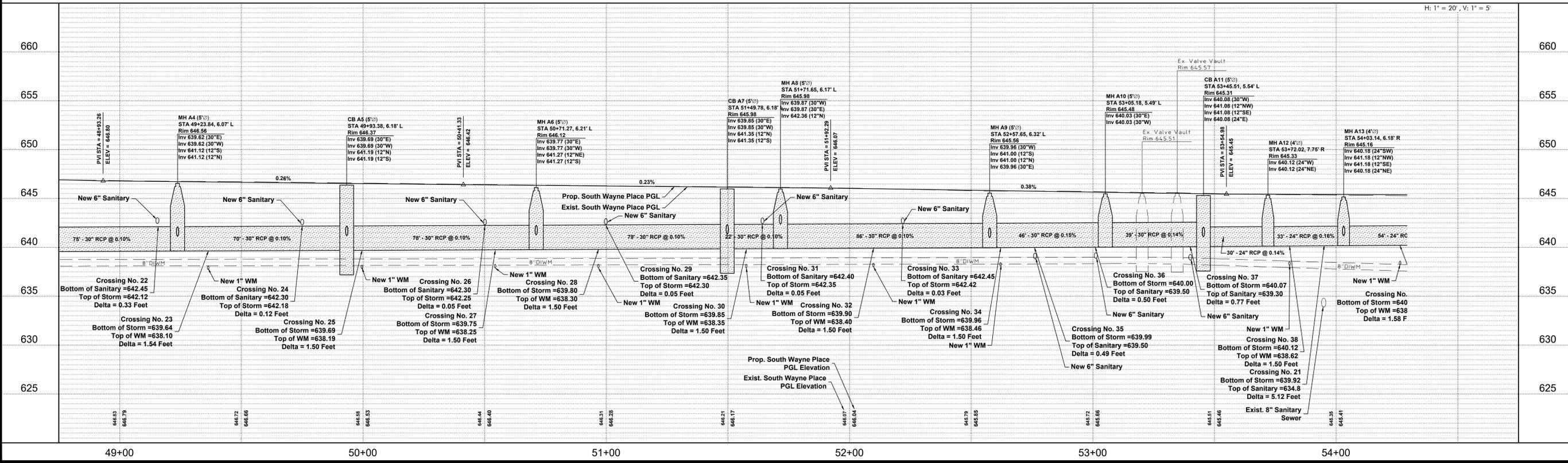
No.	Date	Revision
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1	04-01-2020	Village Review



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SOUTH WAYNE PLACE

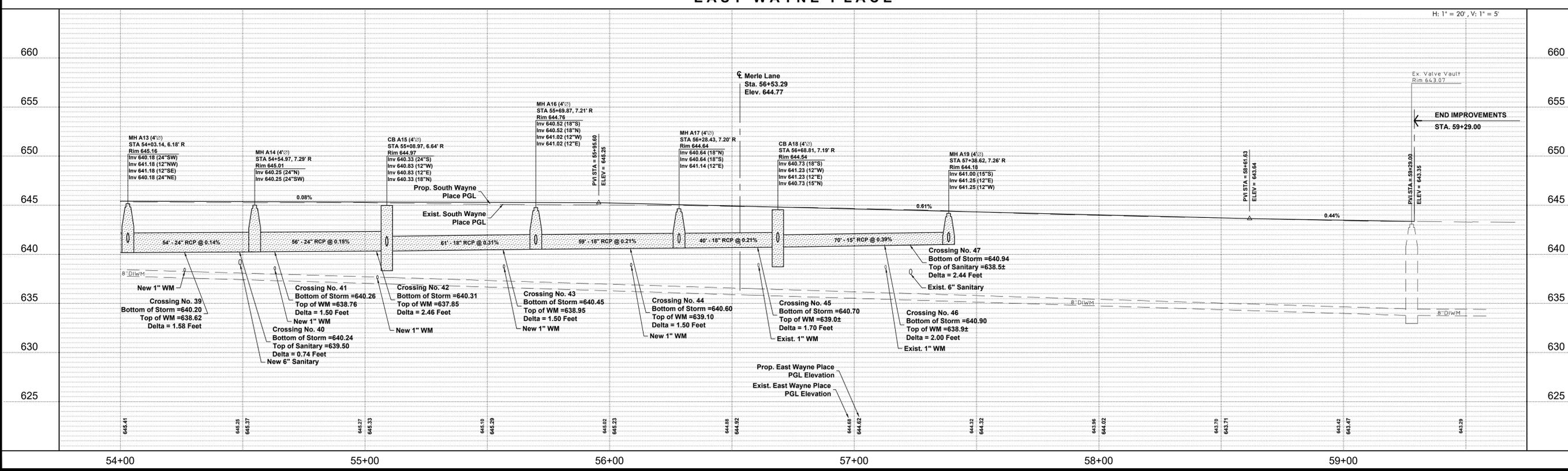
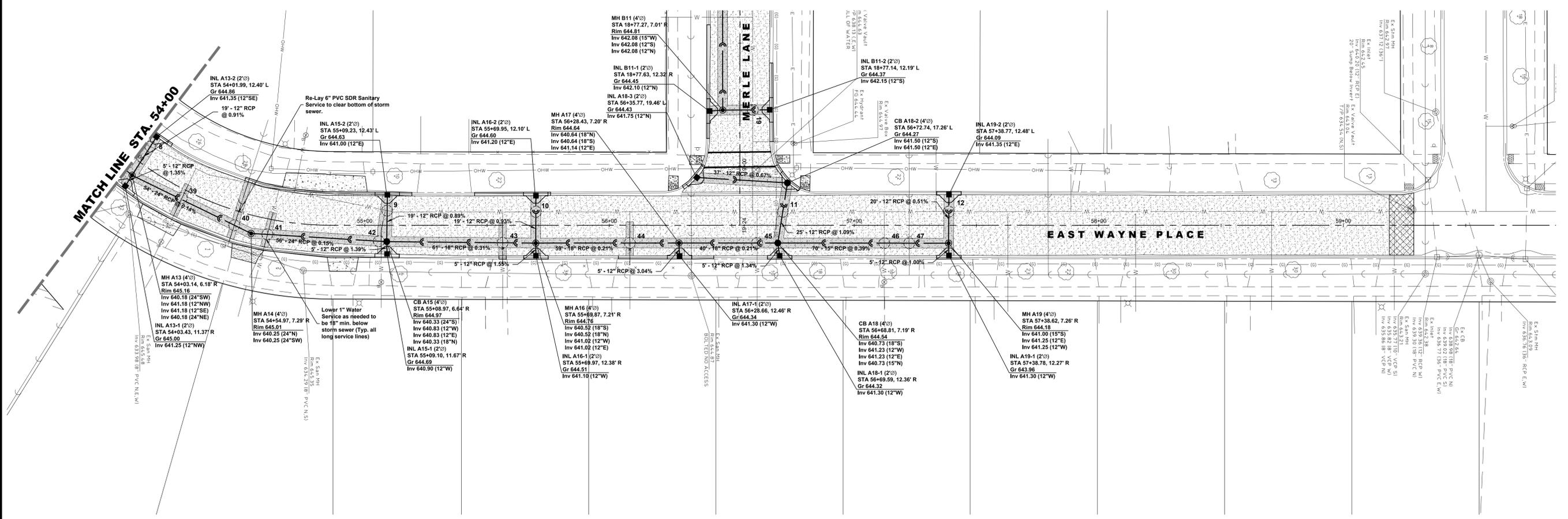


UTILITY PLAN AND PROFILE - SOUTH WAYNE PLACE
DUNHURST RELIEF STORM SEWER IMPROVEMENT PLANS
 WHEELING, ILLINOIS

Project Manager: KML
 Engineer: KML
 Date: 02-21-2020
 Project No: 19-185
 Sheet **C6.1** of C9



Note:
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 3. Any existing water services encountered with less than 5.5' of cover shall be insulated according to the detail on sheet C7.1.



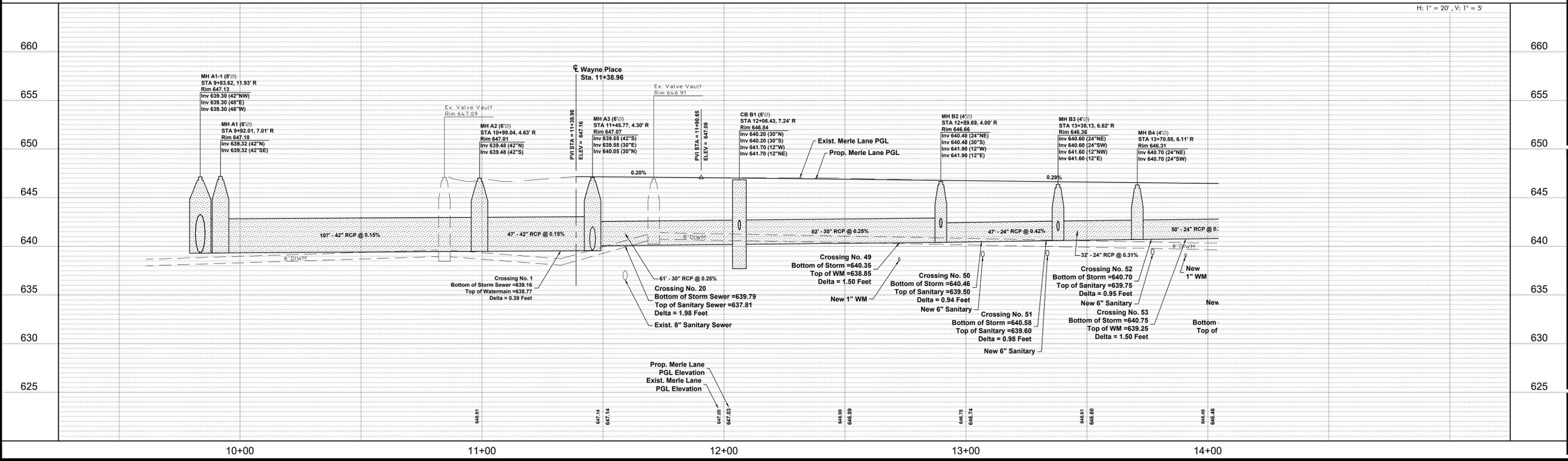
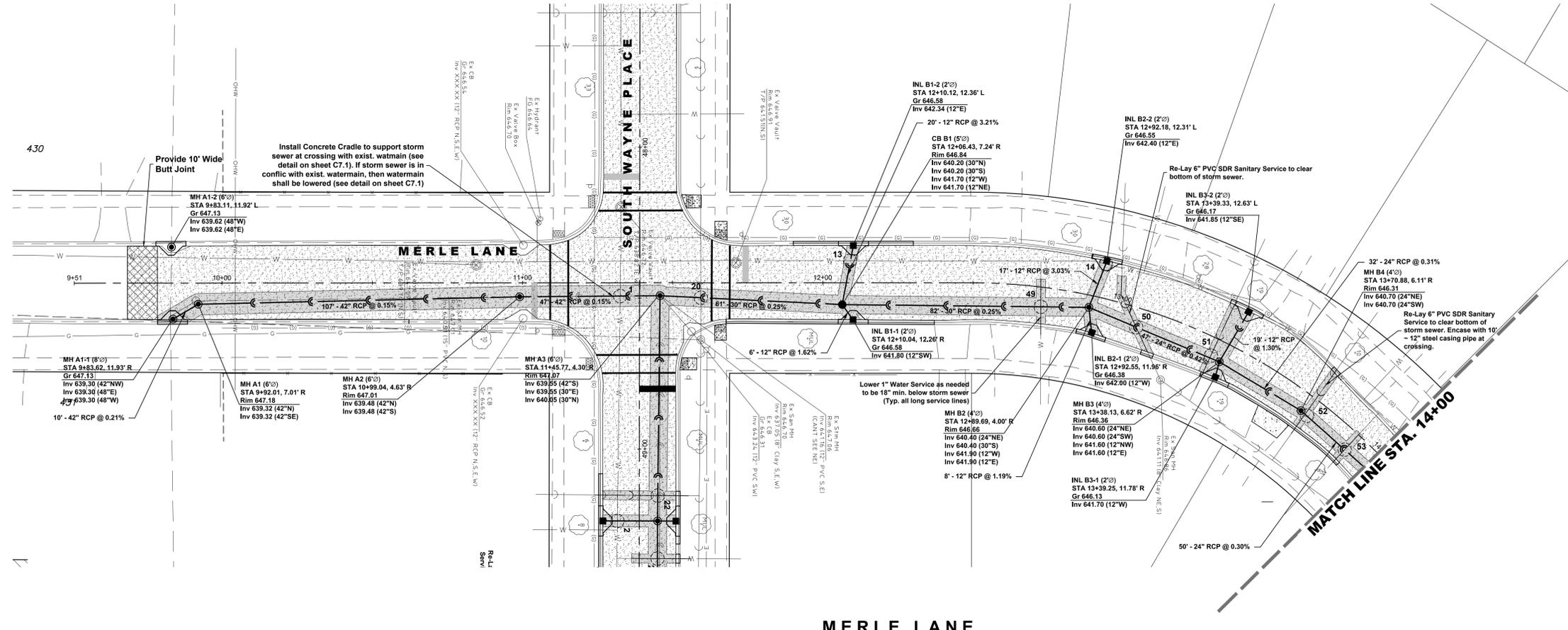
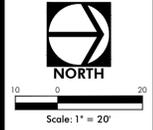
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UTILITY PLAN AND PROFILE - EAST WAYNE PLACE
DUNHURST RELIEF STORM SEWER IMPROVEMENT PLANS
 WHEELING, ILLINOIS

Project Manager: KML
 Engineer: KML
 Date: 02-21-2020
 Project No. 19-185
 Sheet **C6.2** of C9

No.	Date	Revision
1	04-17-2020	Additional Plan Revisions
2	04-01-2020	Village Review

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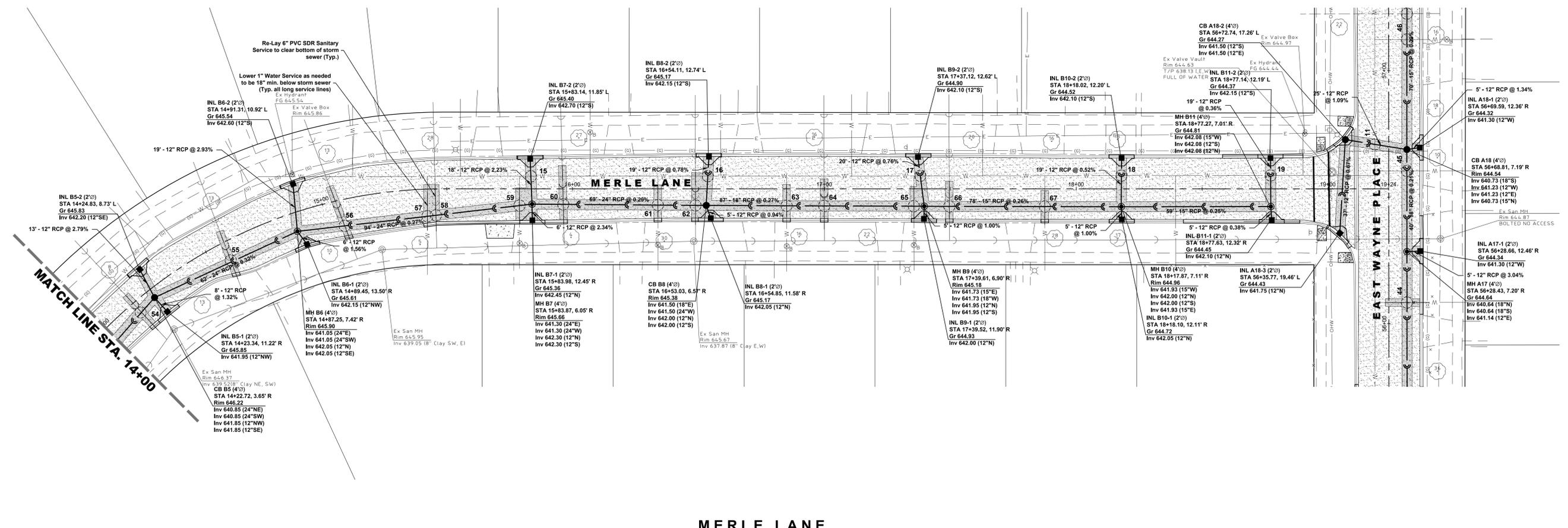
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UTILITY PLAN AND PROFILE - MERLE LANE
DUNHURST RELIEF STORM SEWER IMPROVEMENT PLANS
 WHEELING, ILLINOIS

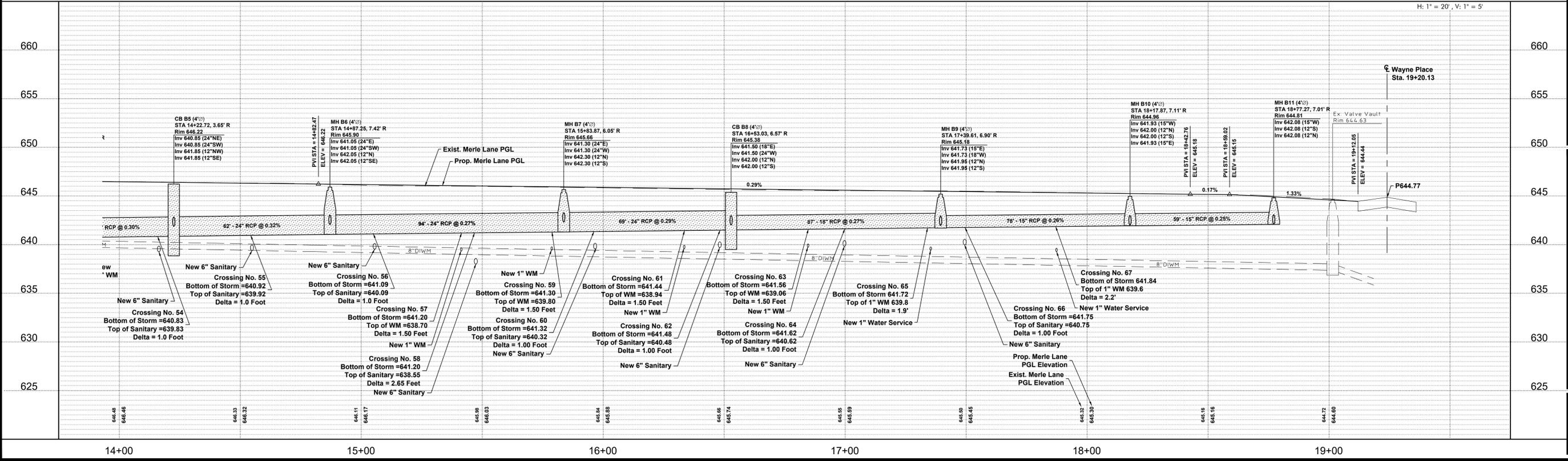
Project Manager: KML
 Engineer: KML
 Date: 02-21-2020
 Project No. 19-185
 Sheet **C6.3** of C9



Note:
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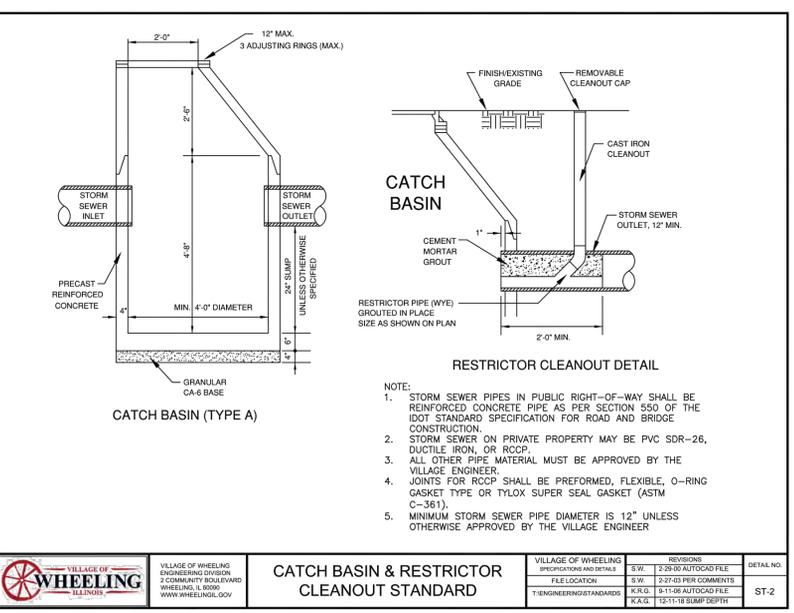
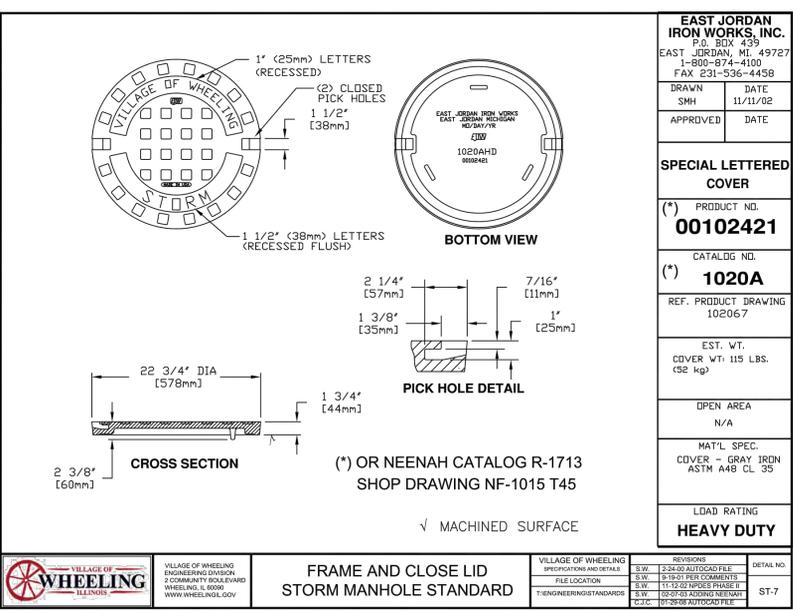
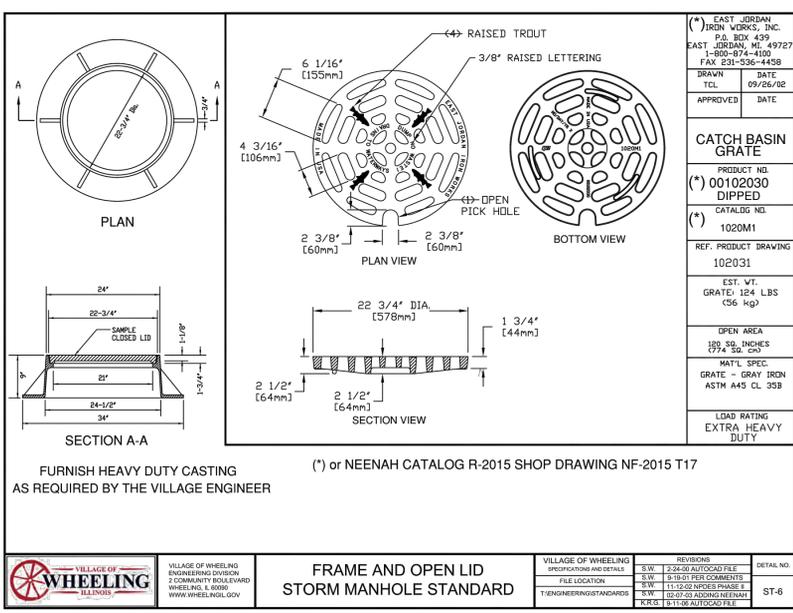
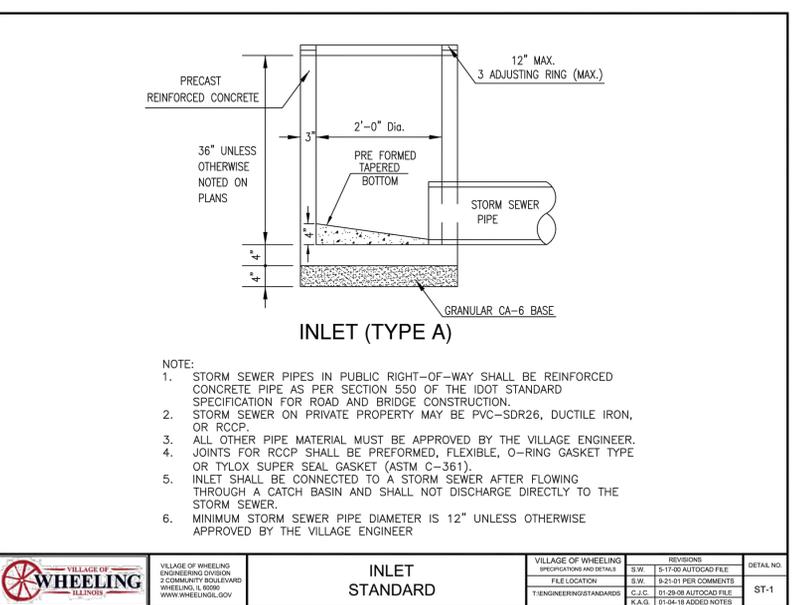
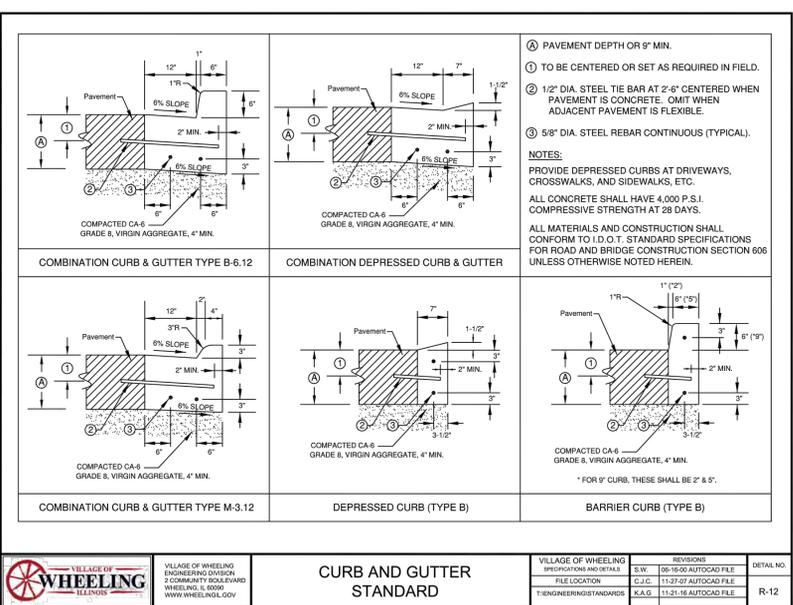
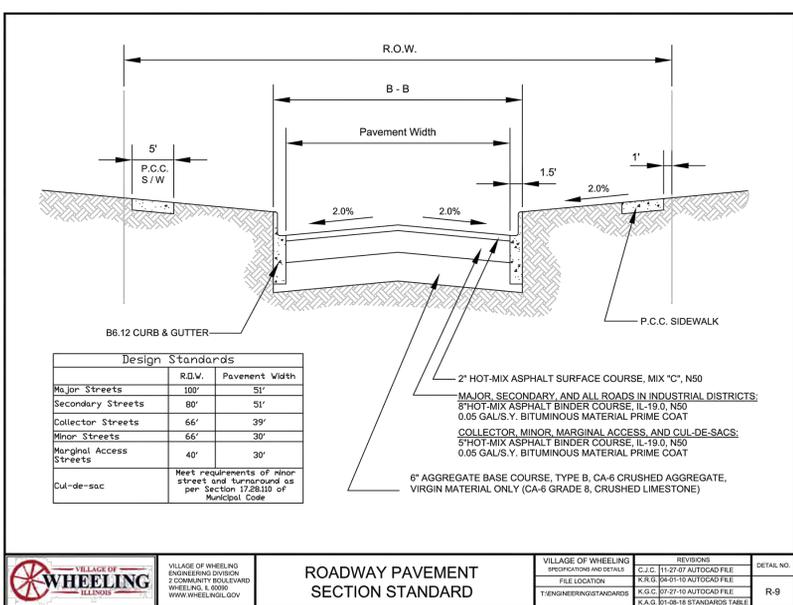
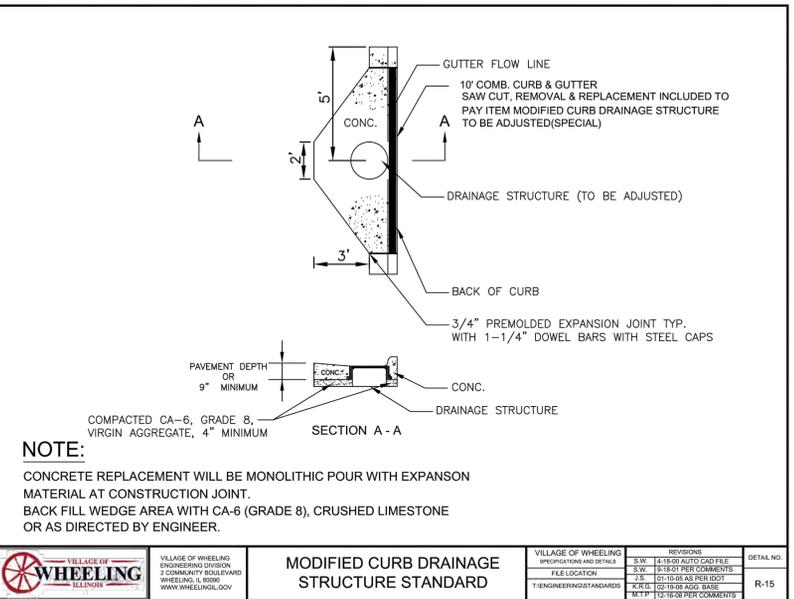
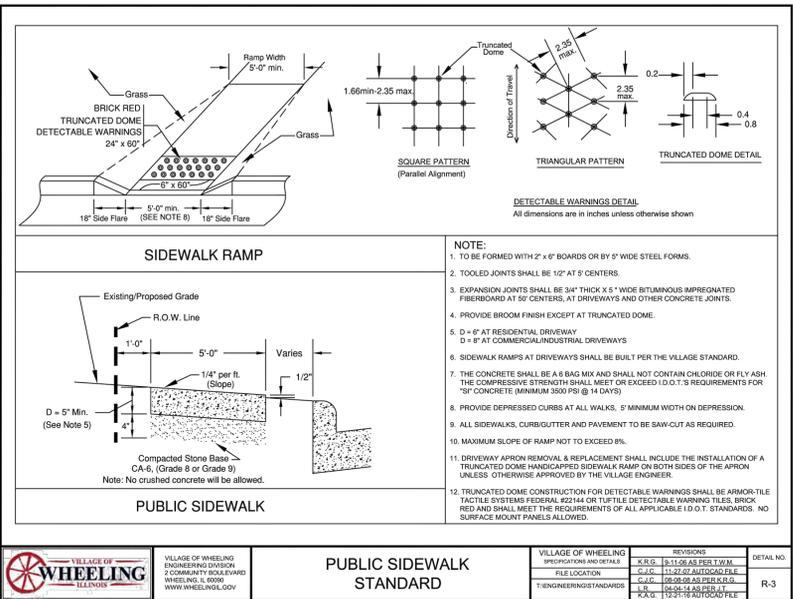
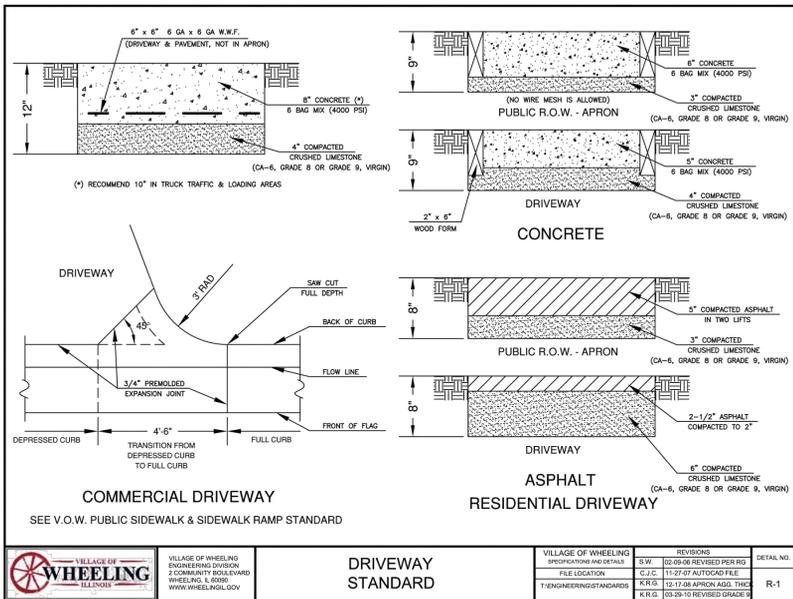
MERLE LANE

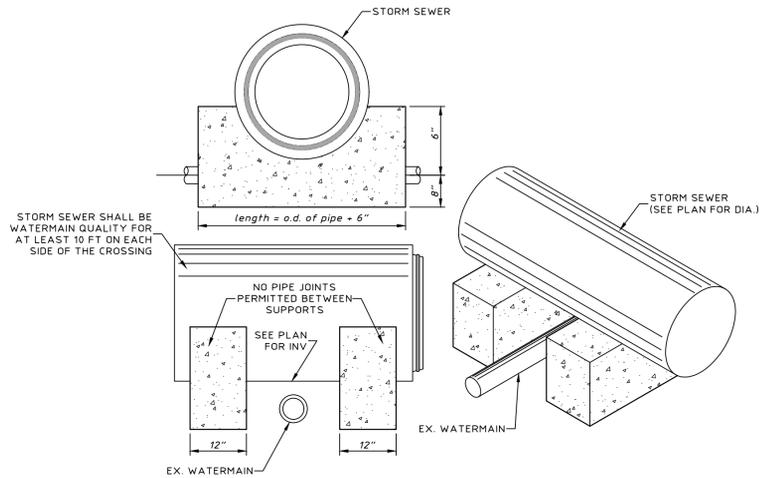


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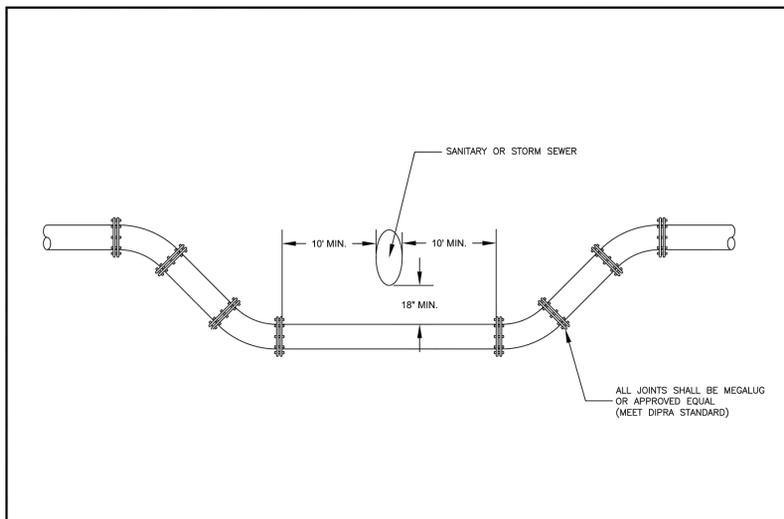
UTILITY PLAN AND PROFILE - MERLE LANE
DUNHURST RELIEF STORM SEWER IMPROVEMENT PLANS
 WHEELING, ILLINOIS

Project Manager: KML
 Engineer: KML
 Date: 02-21-2020
 Project No: 19-185
 Sheet **C6.4** of C9

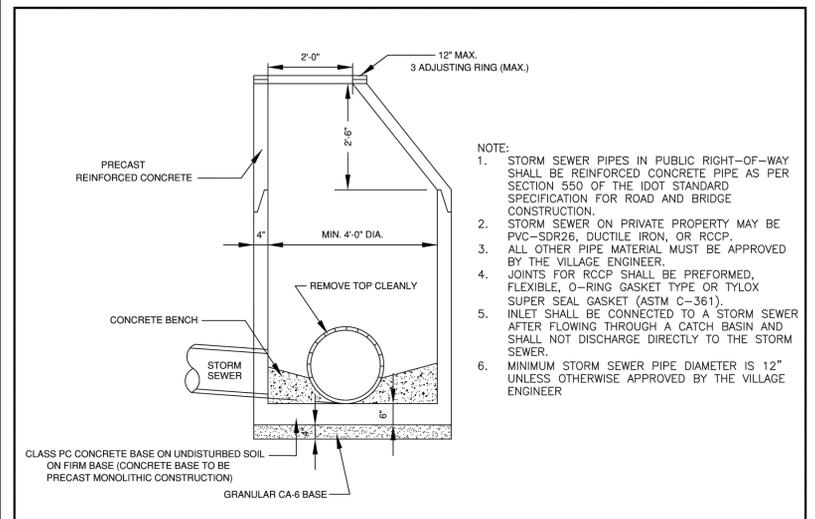




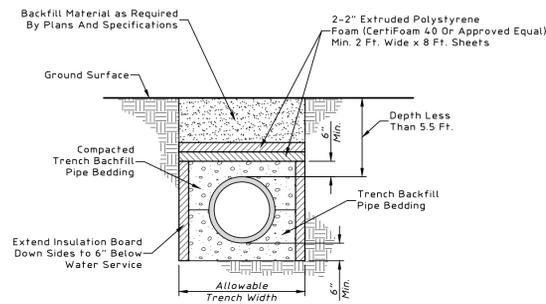
CONCRETE CRADLE



WATER MAIN DEPRESSION STANDARD

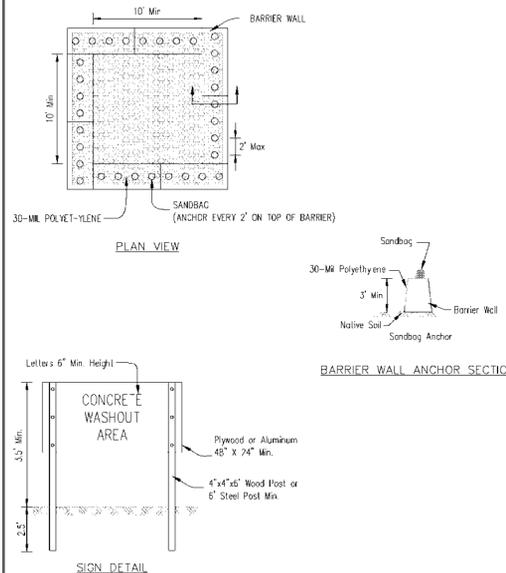


STORM MANHOLE STANDARD



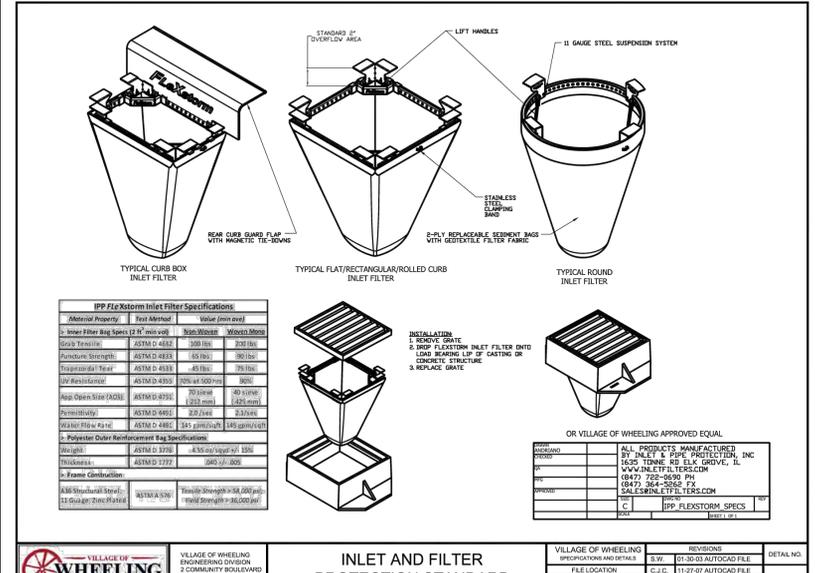
Note:
 1. Insulation Board Shall Be Closed Cell Extruded Polystyrene Foam Meeting ASTM 578, Type VI, 4.0 PSI Compressing Strength (ASTM D1621), 0.1% Max. Water Absorption (ASTM C 272).
 2. Overlap All Insulation Board Joints.

WATER SERVICE TRENCH INSULATION DETAIL

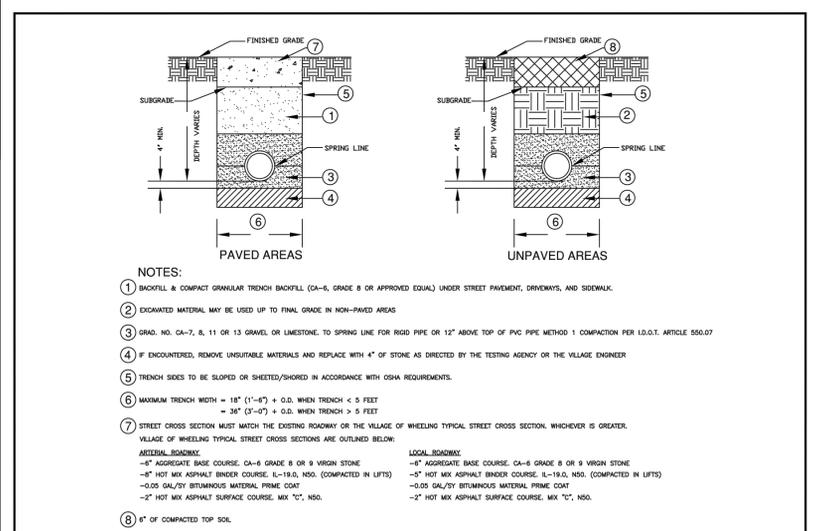


NOTES:
 1. Maintaining temporary concrete washout facilities shall include removing and disposing of hardened concrete and/or slurry and returning the facilities to a functional condition.
 2. Facility shall be cleaned or reconstructed in a new area once washout becomes two-thirds full.

TEMPORARY CONCRETE WASHOUT FACILITY - BARRIER WALL



INLET AND FILTER PROTECTION STANDARD



TRENCH BACKFILL STANDARD

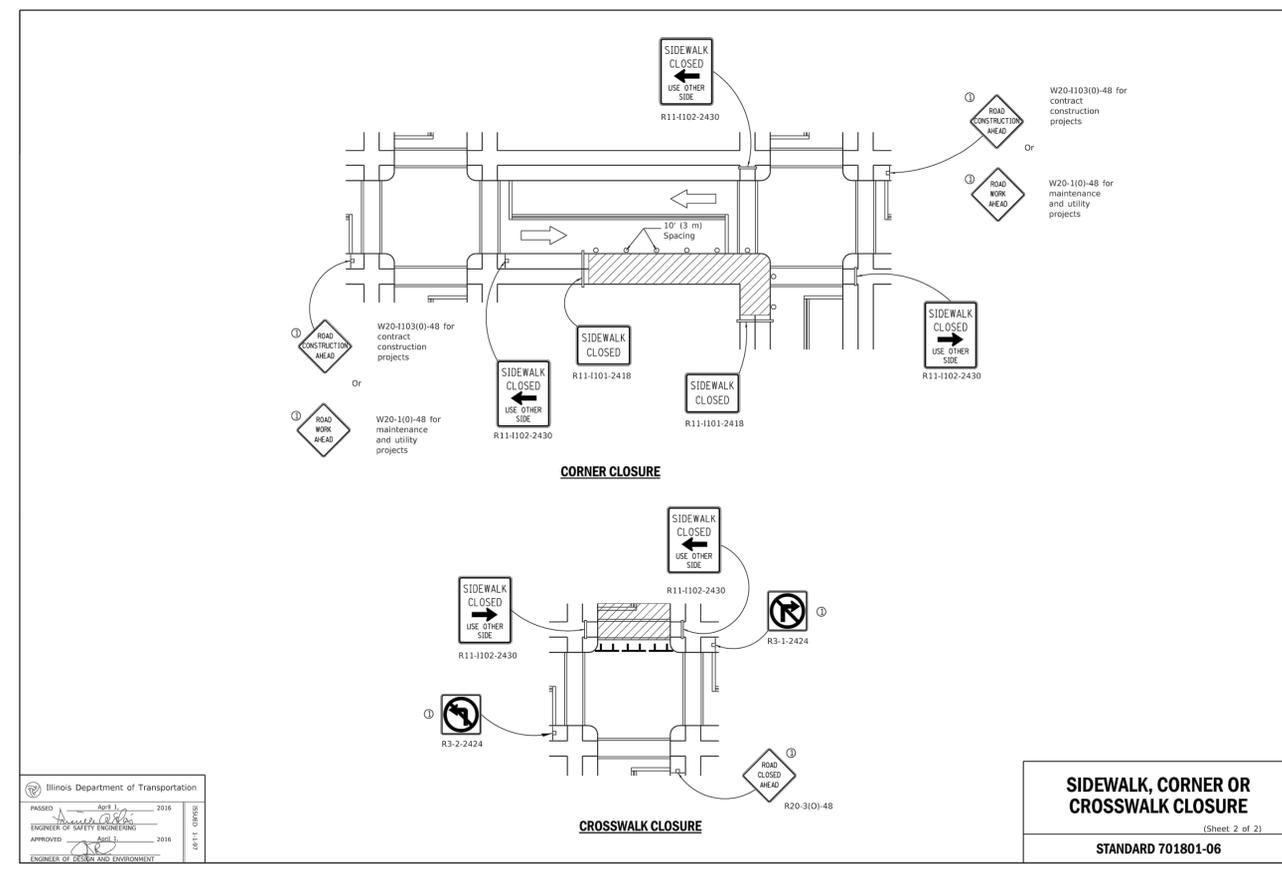
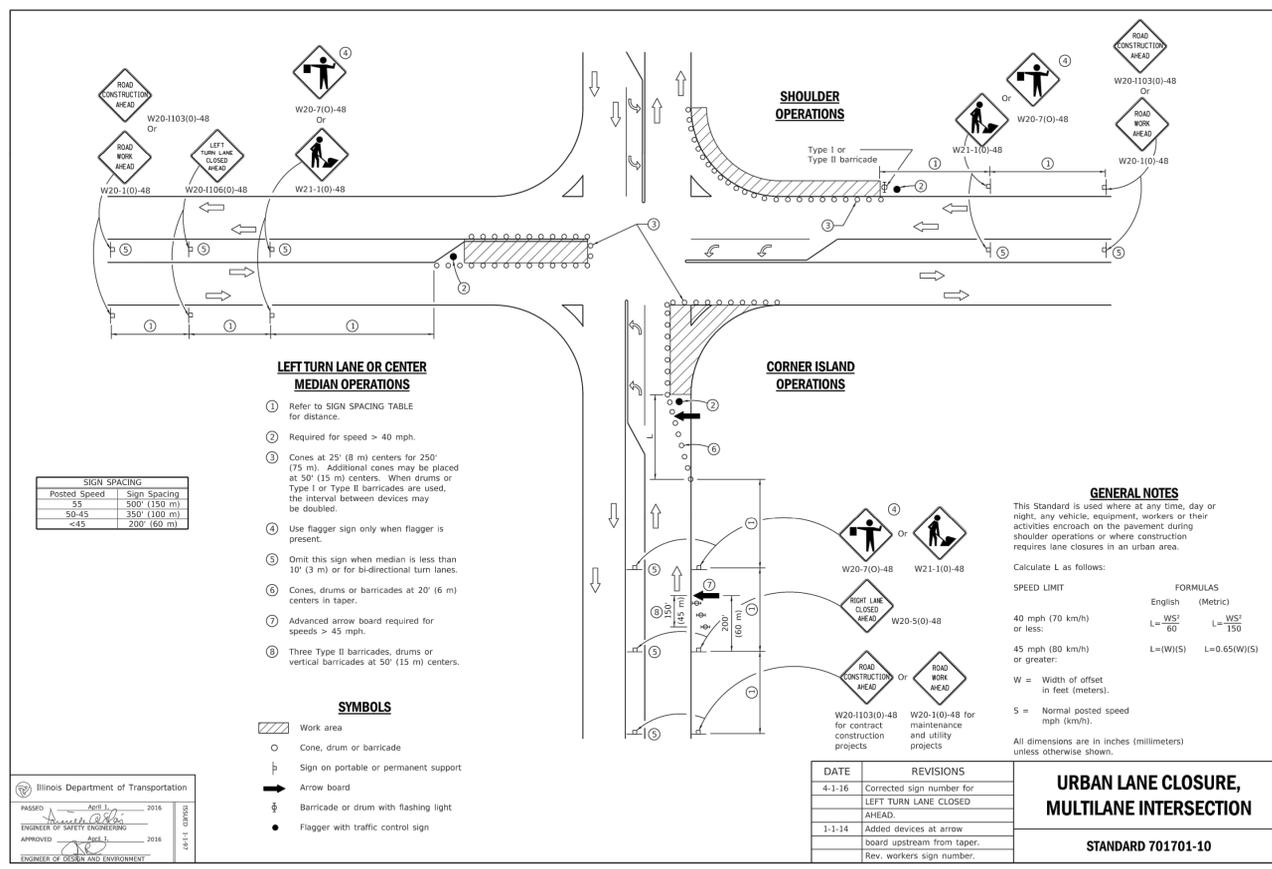
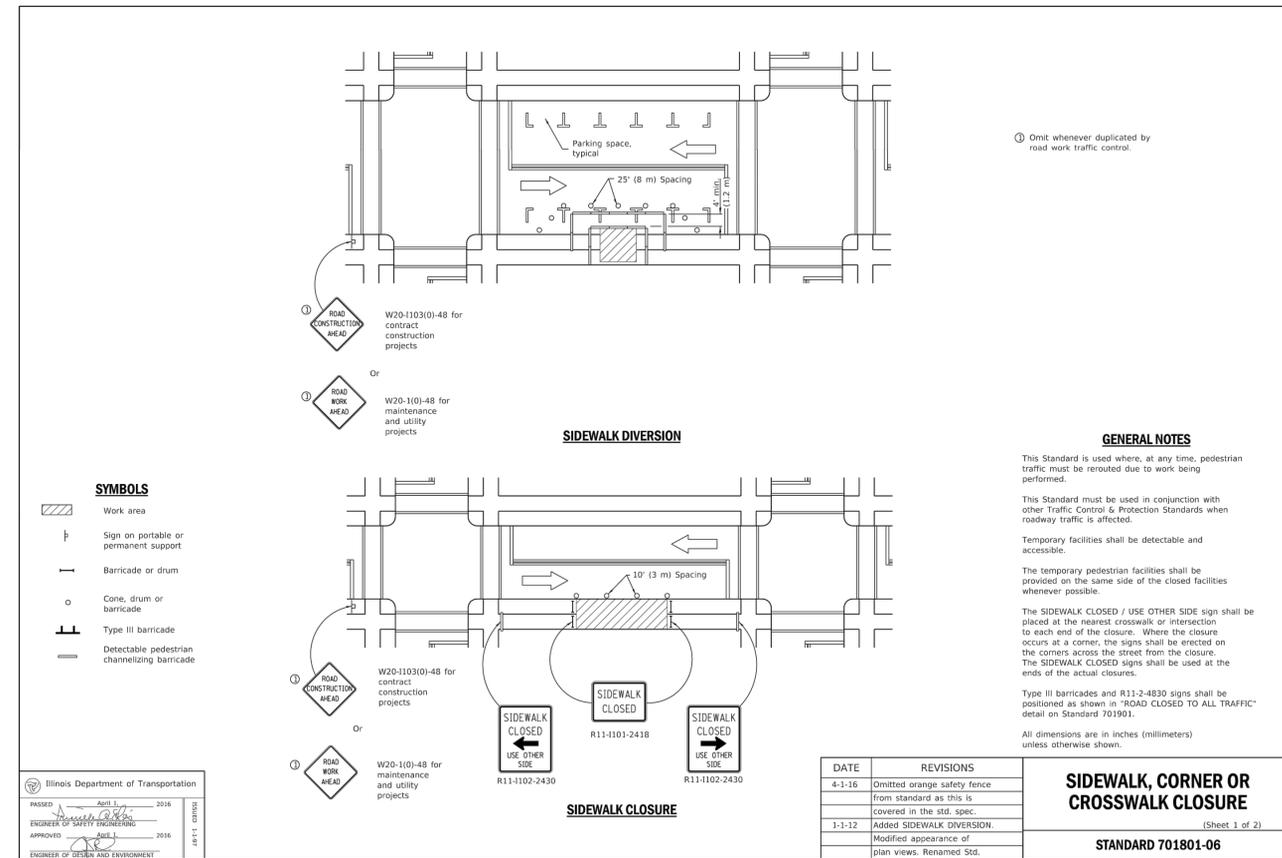
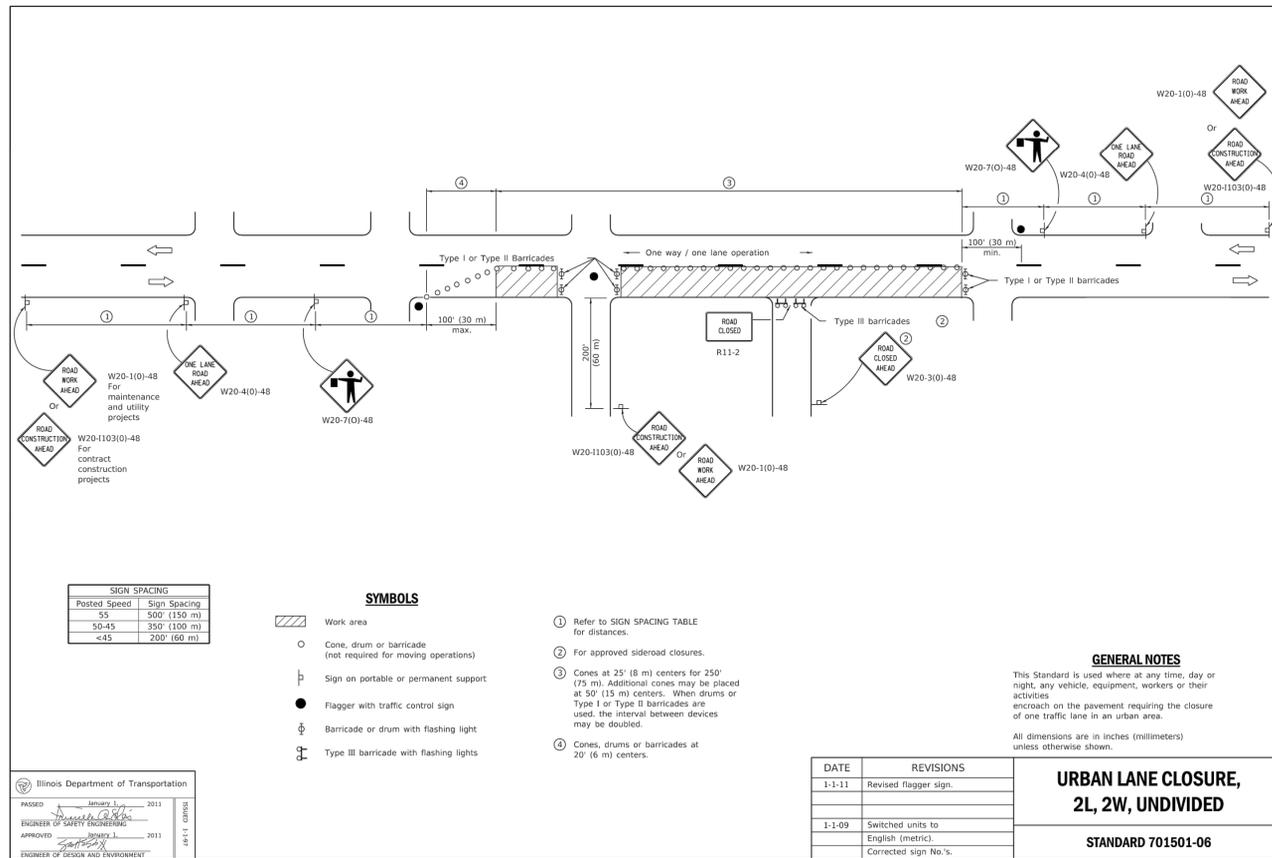
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	FILE LOCATION	S.W. 5-30-20 AUTO/CAD FILE	
	T:ENGINEERINGSTANDARDS	S.W. 5-11-06 PER COMMENTS	
	C.J.C.	11-27-07 AUTOCAD FILE	W-9

	VILLAGE OF WHEELING ENGINEERING DIVISION 2 COMMUNITY BOULEVARD WHEELING, IL 60090 WWW.WHEELING.IL.GOV	REVISIONS	DETAIL NO.
	FILE LOCATION	S.W. 5-30-20 AUTO/CAD FILE	
	T:ENGINEERINGSTANDARDS	S.W. 5-11-06 PER COMMENTS	
	C.A.G.	1-04-18 NOTES ADDED	ST-4

	VILLAGE OF WHEELING ENGINEERING DIVISION 2 COMMUNITY BOULEVARD WHEELING, IL 60090 WWW.WHEELING.IL.GOV	REVISIONS	DETAIL NO.
	FILE LOCATION	S.W. 11-27-07 AUTOCAD FILE	
	T:ENGINEERINGSTANDARDS	S.W. 11-27-07 AUTOCAD FILE	
	C.J.C.	11-27-07 AUTOCAD FILE	ERO-1

	VILLAGE OF WHEELING ENGINEERING DIVISION 2 COMMUNITY BOULEVARD WHEELING, IL 60090 WWW.WHEELING.IL.GOV	REVISIONS	DETAIL NO.
	FILE LOCATION	S.W. 11-27-07 AUTOCAD FILE	
	T:ENGINEERINGSTANDARDS	S.W. 11-27-07 AUTOCAD FILE	
	C.A.G.	1-04-18 NOTES ADDED	UTL-1

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 www.haegerengineering.com
TYPICAL DETAILS
DUNHURST RELIEF STORM SEWER IMPROVEMENT PLANS
 WHEELING, ILLINOIS
 Project Manager: KML
 Engineer: KML
 Date: 02-21-2020
 Project No: 19-185
 Sheet **C7.1** / C9



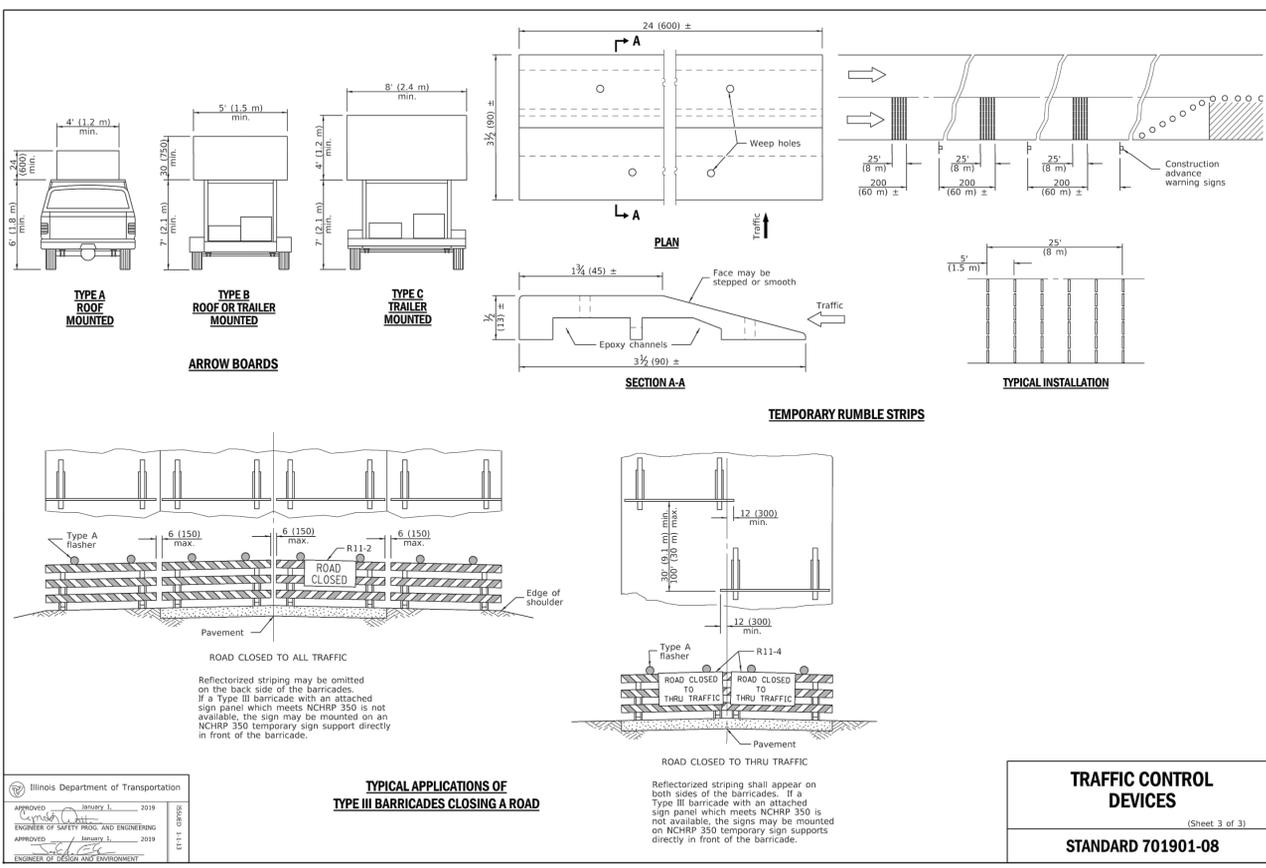
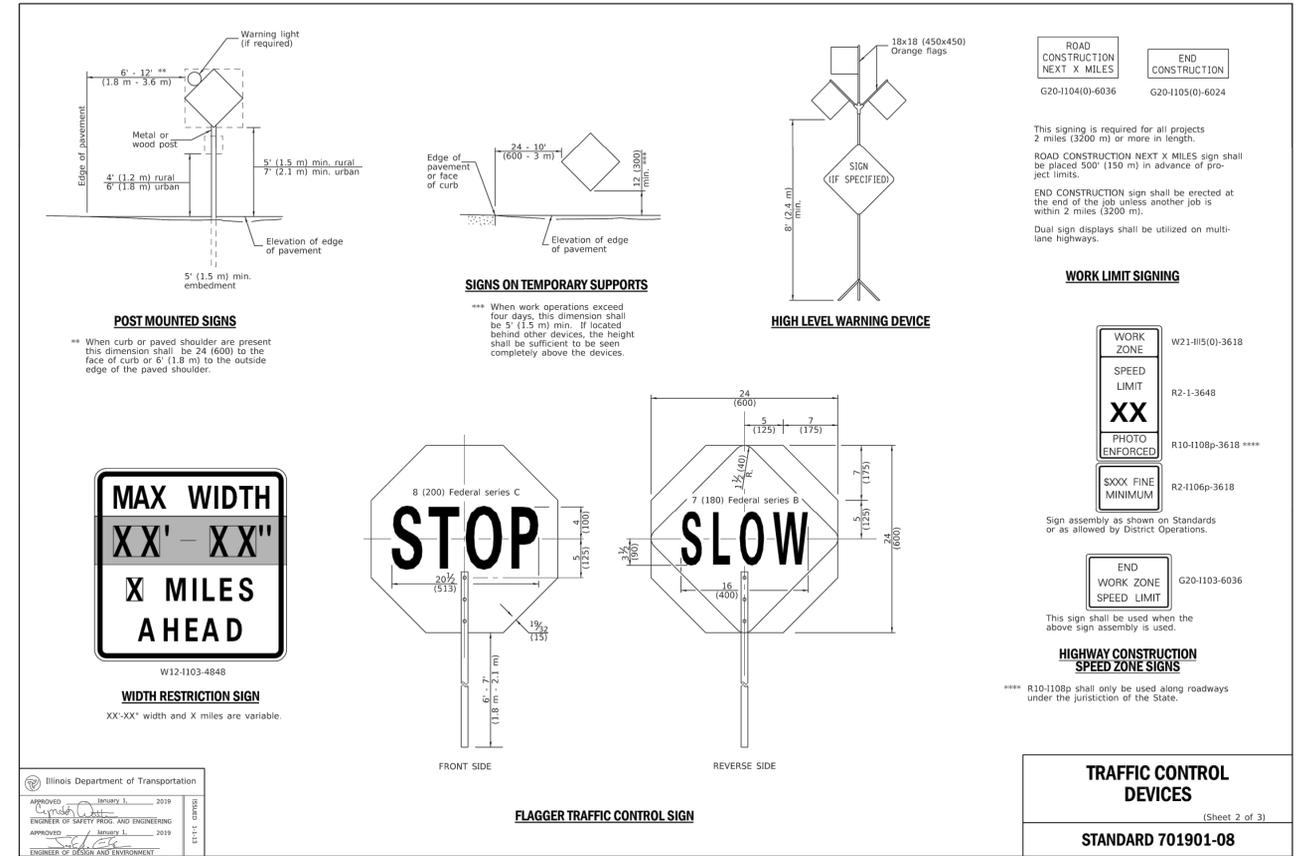
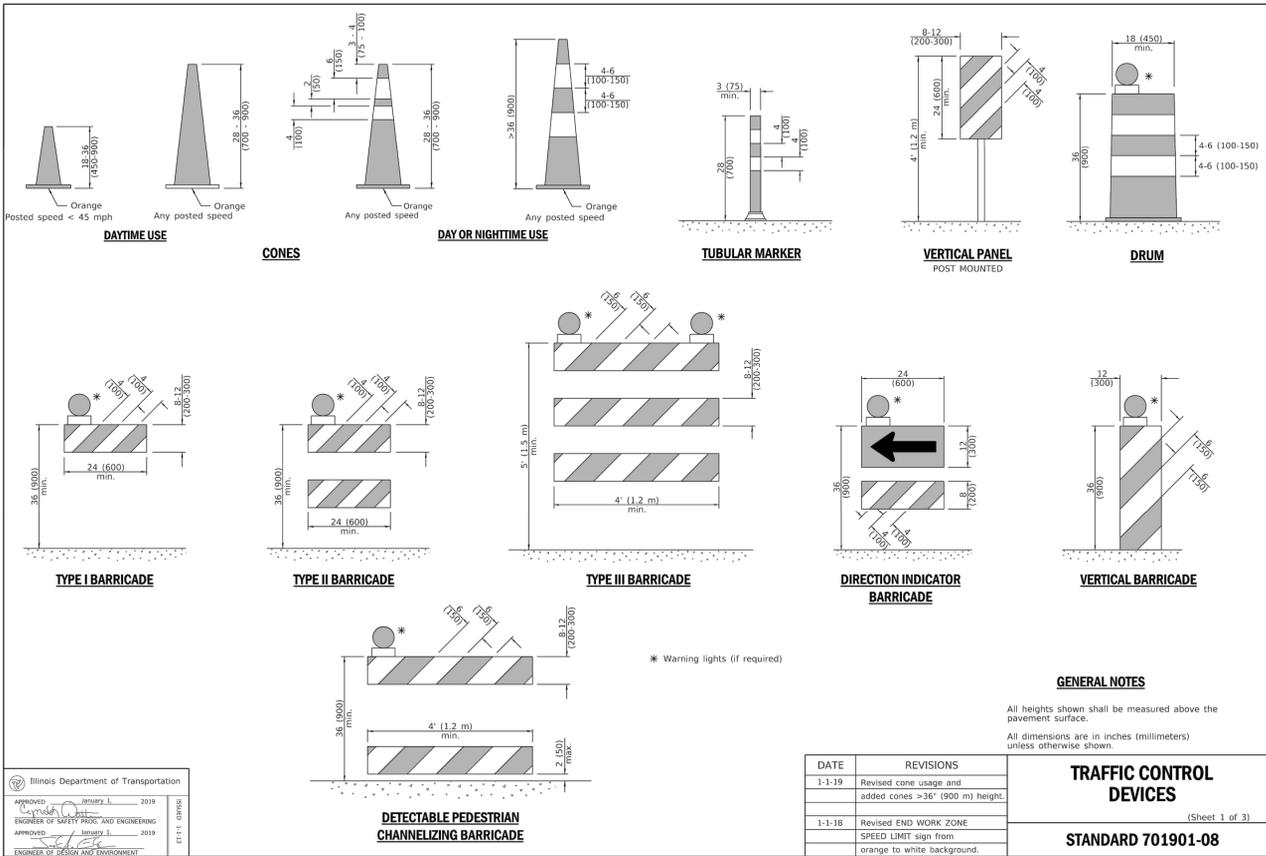
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TYPICAL DETAILS

DUNHURST RELIEF STORM SEWER IMPROVEMENT PLANS
 WHEELING, ILLINOIS

Project Manager: KML
 Engineer: KML
 Date: 02-21-2020
 Project No: 19-185
 Sheet **C7.2** / C9



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TYPICAL DETAILS

DUNHURST RELIEF STORM SEWER IMPROVEMENT PLANS
WHEELING, ILLINOIS

Project Manager: KML
Engineer: KML
Date: 02-21-2020
Project No: 19-185
Sheet **C7.3** / C9