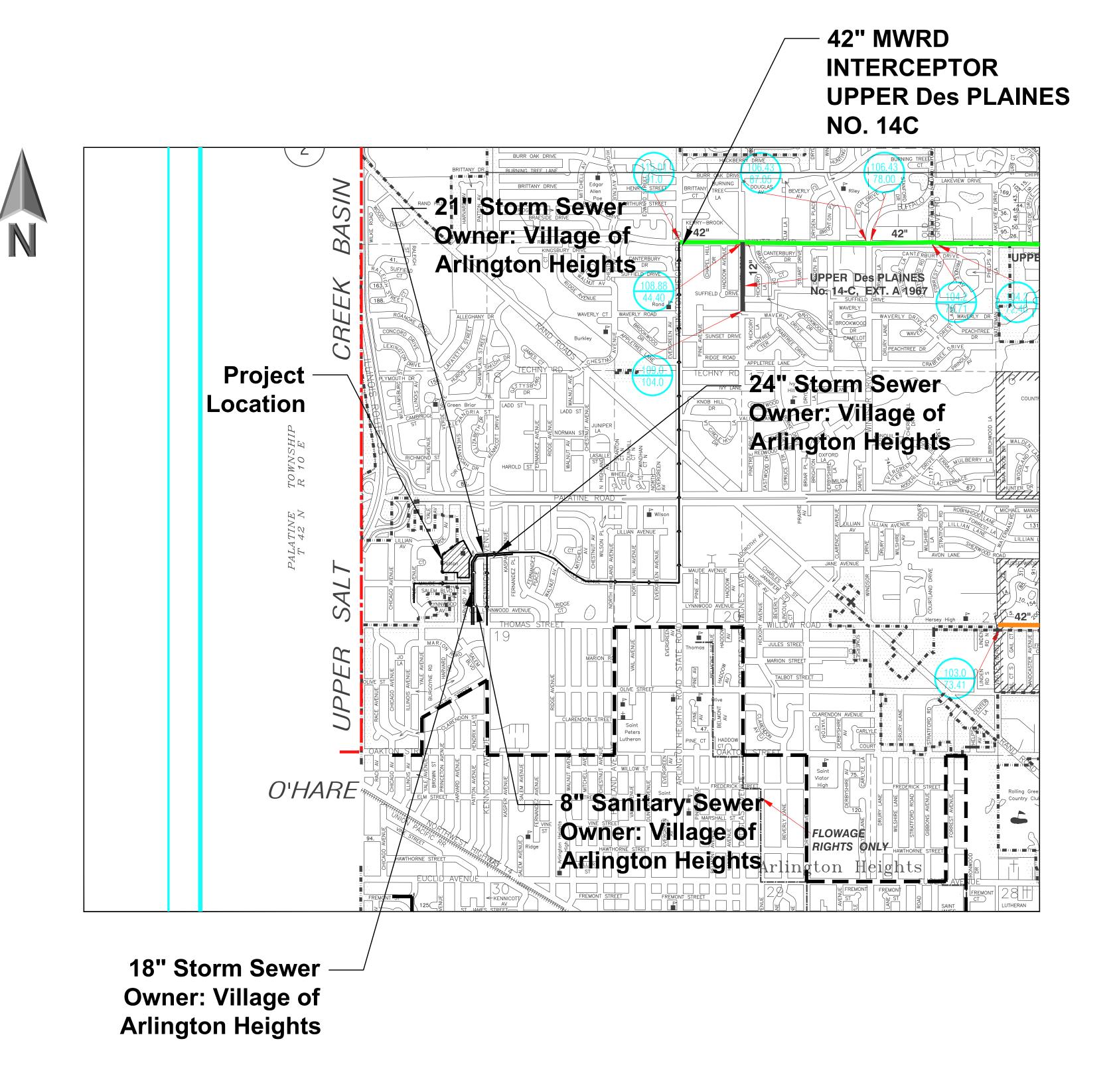
PATTON ELEMENTARY SCHOOL BUILDING ADDITION AND RENOVATIONS

1616 N. Patton Ave. Arlington Heights, IL 60004



CIVIL SHEET INDEX

COOO CIVIL COVER SHEET
COO1 TOPOGRAPHIC SURVEY
COO2 TOPOGRAPHIC SURVEY
COO3 TOPOGRAPHIC SURVEY
COO4 SITE WORK NOTES AND LEGENDS
COO5 MWRD GENERAL NOTES

C101 SITE DEMOLITION PLAN
C201 SITE GEOMETRY PLAN
C301 SITE UTILITY PLAN
C401 SITE GRADING AND PAVING PLAN
C501 SITE EROSION AND CONTROL PLAN

LANDSCAPE SHEET INDEX

L101 Landscape Plan
L201 Preliminary Landscape Details

Contact the Metropolitan Water Reclamation District of Greater Chicago 2 days before starting work.

P (708) 588-4055

E WMOJobStart@mwrd.org

DRAINAGE STATEMENT

To The Best Of Our Knowledge And Belief, It Is Our Professional Opinion That The Proposed Improvements On The Property Are Not Within One—Hundred (100) Feet Of A Known Flood Protection Area. The Drainage Of The Surface Waters Will Not Be Changed By The Construction Of This Development Or Any Part Thereof, Or That If Such Surface Water Drainage Will Be Changed, Reasonable Provisions Have Been Made For The Collection And Diversion Of Such Surface Waters Into Public Areas Or Drains Which The Property Owner Has A Right To Use, And That Such Surface Waters Will Be Planned For In Accordance With Generally Accepted Engineering Practices So As To Reduce The Likelihood Of Damage To The Adjoining Property Because Of The Construction Of The Development.

ERIKSSON
ENGINEERING
ASSOCIATES, LTD.

145 COMMERCE DRIVE, SUITE A
GRAYSLAKE, ILLINOIS 60030
PHONE (847) 223-4804

LICENSE No. 184-003220

UILDING ADDITION AND RENOVATION

ARI INGTON HEIGHTS II INOIS

served for Seal

Date Description

12/06/22 ISSUE FOR PLAN COMMISSION

01/20/23 REVISED FOR PLAN COMMISSION

02/01/23 REVISED FOR PLAN COMMISSION

RIKSSON ENGINEERING ASSOCIATES, LTD., 2022

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PRODUCTION OF ANY PART OF THESE PLANS IS PERMITTED WITHOUT THE WRITTEN NT OF ERIKSSON ENGINEERING ASSOCIATES, LTD.

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Sheet No:

CIVIL COVER SHEET

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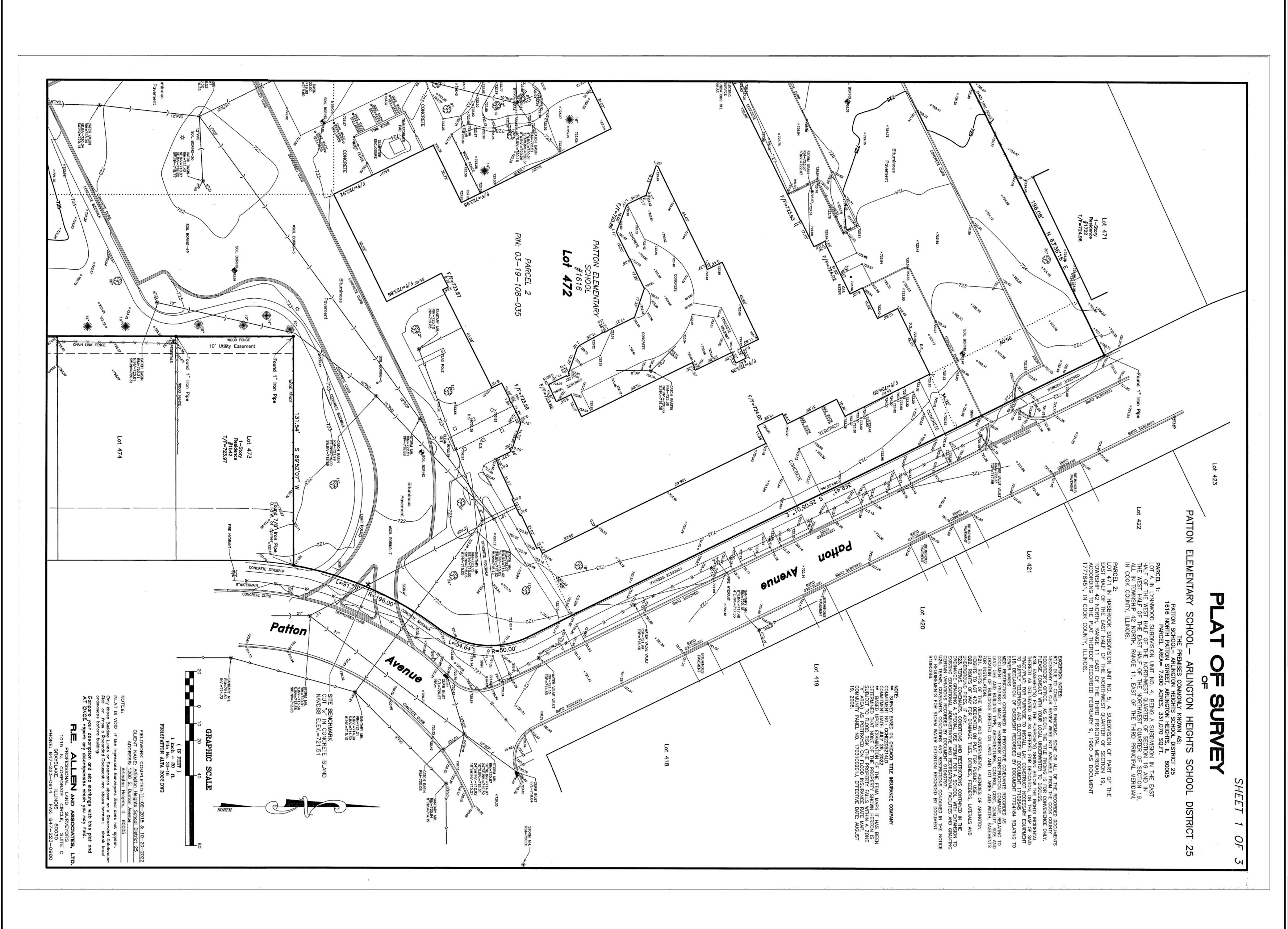
SURVEY PROVIDED BY:

lat of Survey and Topography Provided By R.E. Allen and ssociates, Ltd. For Eriksson Engineering Associates on ovember 12, 2018. Order Number F33–16.

Source Benchmark:
Monument Recovery Sheet
Village of Arlington Heights, IL
Location Address:
515 Palatine Road
Monument 32
3" Dia. Brass Disc In Concrete, 5" Above Ground, 44'±
South Of The Centerline Of Frontage Road (Palatine Road)
And 21'± East Of The Centerline Of Fernandez Avenue
(Stamped 114B)
NAVD88 Elevation = 713.78
SITE BENCHMARK:
Survey Control Point, Cut "X" in Concrete Island
Elevation: 721.51 NAVD88
Easting: 1075702.92
Northing: 1981620.54

J.U.L.I.E.

Note: The exact location of all utilities shall be verified by the contractor prior to construction activities. For utility locations call: J.U.L.I.E. 1 (800) 892—0123



PATTON ELEMENTARY SCHOOL

SUILDING ADDITION AND RENOVATIONS
1616 N. PATTON AVENUE

ENGINEERING

ASSOCIATES, LTD.

145 COMMERCE DRIVE, SUITE A GRAYSLAKE, ILLINOIS 60030 PHONE (847) 223-4804 FAX (847) 223-4864 EMAIL INFO@EEA-LTD.COM

PROFESSIONAL DESIGN FIRM LICENSE NO. 184-003220 EXPIRES: 04/30/2023

No. Date Description

12/06/22 ISSUE FOR PLAN COMMISSION

101/20/23 REVISED FOR PLAN COMMISSION

202/01/23 REVISED FOR PLAN COMMISSION

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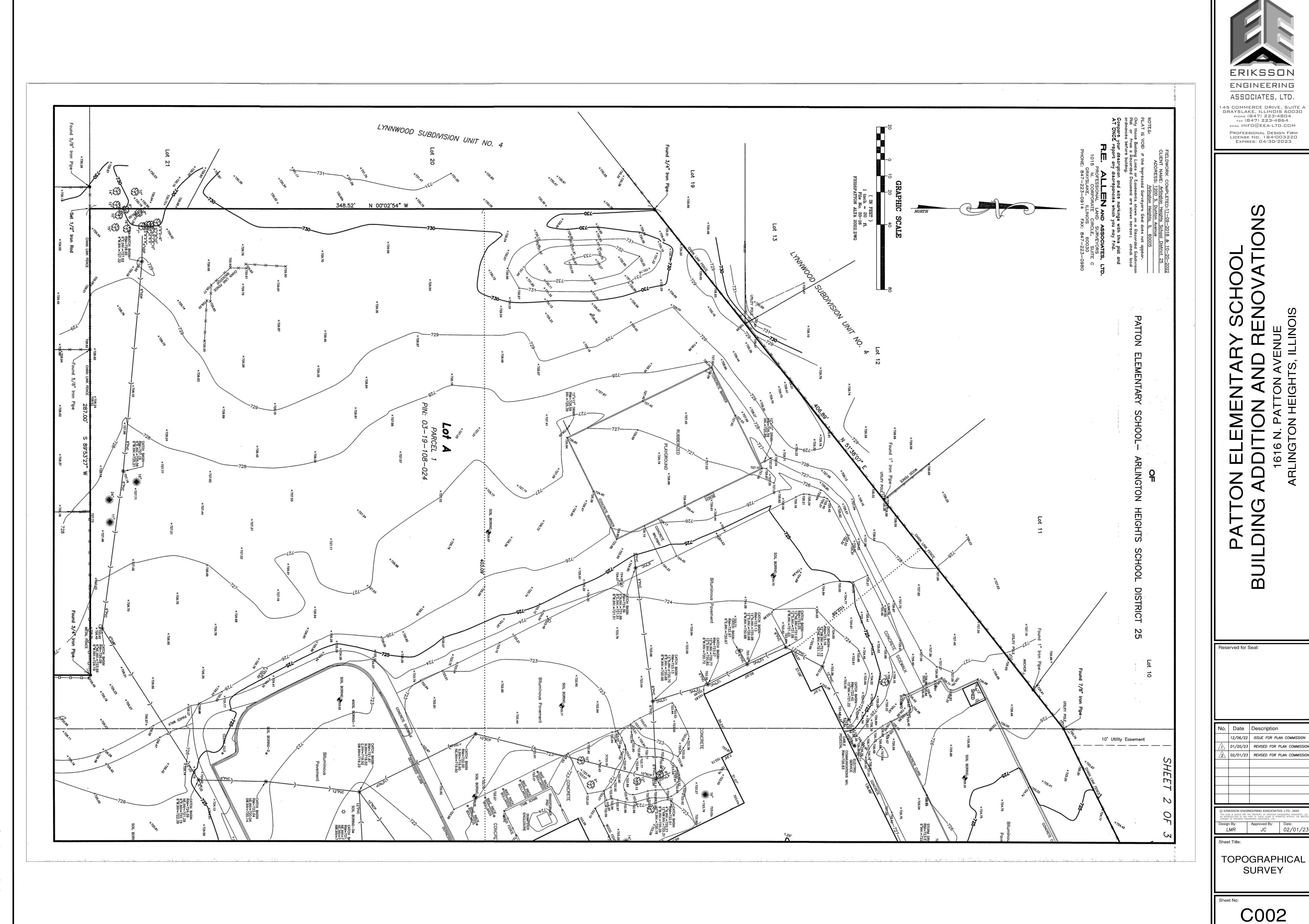
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BY: Approved By: Date:

TR JC 02/01/2

TOPOGRAPHICAL SURVEY





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No. Date Description 12/06/22 ISSUE FOR PLAN COMMISSION 01/20/23 REVISED FOR PLAN COMMISSION 2 02/01/23 REVISED FOR PLAN COMMISSION

TOPOGRAPHICAL SURVEY



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No. Date Description 12/06/22 ISSUE FOR PLAN COMMISSION 01/20/23 REVISED FOR PLAN COMMISSION

 Design By:
 Approved By:
 Date:

 LMR
 JC
 02/01/23

Sheet Title:

TOPOGRAPHICAL SURVEY

GENERAL NOTES

- 1. The Location of Existing Underground Utilities, Such As Watermains, Sewers, Gas Lines, Etc., As Shown On The Plans. Has Been Determined From The Best Available Information and Is Given For The Convenience of The Contractor. However, The Owner and The Engineer Do Not Assume Responsibility In The Event That During Construction, Utilities Other Than Those Shown May Be Encountered, and That The Actual Location of Those Which Are Shown May Be Different From The Location As Shown On The Drawings. Contact Engineer Immediately If Surface and/or Subsurface Features Are Different Than Shown On
- 2. Notify The Engineer Without Delay of Any Discrepancies Between the Drawings and Existing Field Conditions.
- 3. Contractor Shall Provide Private Utility Locating Services for the Project Area.
- 4. Notify The Owner, Engineer and The Village of Arlington Heights A Minimum of 48 Hours In Advance of Performing
- 5. All Areas, On or Off Site, Disturbed During Construction Operations and Not Part of the Work As Shown Hereon Shall Be Restored To Original Condition to the Satisfaction of the Owner at No Additional Cost to the Owner. It is Incumbent Upon Contractor to Show That Damaged Areas Were Not Disturbed By Construction Operations.
- 6. These Drawings Assume That The Contractor Will Utilize An Electronic Drawing File (DWG) to Stake All Site Improvements Accordingly. Contractor Shall Re—Establish Horizontal Control. Horizontal Control Points Not Provided.
- 7. No Person May Utilize The Information Contained Within These Drawing's Without Written Approval From Eriksson Engineering Associates, Ltd.
- 8. The Engineer Is Furnishing These Drawings For Construction Purposes As A Convenience To The Owner, Architect, Surveyor, or Contractor. Prior To The Use Of These Drawings For Construction Purposes, The User Of This Media Shall Verify All Dimensions And Locations Of Buildings With The Foundation Drawings And Architectura Site Plan, and Coordinate All Dimensions and Locations of All Site Items. If Conflicts Exist The User Of This Information Shall Contact The Engineer Immediately.
- 9. Provide An As-built Survey Prepared By A Licensed Professional Land Surveyor In Accordance With The Authorities Having Jurisdiction Which Shall Include As of Minimum All Detention Basins and Best Management Practices, Include All Storm and Sanitary Sewers, Structure Locations, Sizes, Rim and Invert Elevations, Final Detention Volume Calculations For The Basin(s), Watermain and Valve and Appurtenance Locations.
- 10. The Illinois Department Of Transportation Standard Specifications For Road And Bridge Construction Latest Edition, And All Addenda Thereto, Shall Govern The Earthwork And Paving Work Under This Contract Unless Noted Otherwise.

DEMOLITION NOTES

- 1. All Sians to Be Removed Shall Be Salvaged and Stored in the Owner's Facility for Future Use as Applicable.
- 2. Keep All Village Of Arlington Heights Streets Free and
- Clear of Construction Related Dirt/Dust/Debris. 3. Coordinate Existing Utility Removal with Local Authorities
- and Utility Companies Having Jurisdiction. 4. Coordinate Removal of Overhead Wires And Utility Poles With Authorities Having Jurisdiction And Respective Utility
- 5. The Existing Building is to Remain Operational During Construction. Therefore, the Temporary Relocation of All Necessary Utilities Serving the Existing Building Shall Be Coordinated Prior to the Commencement of Construction
- 6. All Sawcutting Shall be Full Depth to Provide a Clean Edge to Match New Construction. Match Existing Elevations at Points of Connection for New and Existing Pavement, Curb, Sidewalks, etc. All Sawcut Locations Shown Are Approximate and May Be Field Adjusted to Accommodate Conditions, Joints, Material Type, etc. Remove Minimum Amount Necessary for Installation of Proposed Improvements.
- 7. Provide and Maintain All Necessary Traffic Control and Safety Measures Required During Demolition and Construction Operations Within or Near the Public
- 8. All Light Poles to Be Removed From Private Property Shall Be Removed in Their Entirety, Including Base and All Appurtenances. Coordinate Abandonment of Electrical Lines With Electrical Engineer and Owner Prior to
- 9. Perform Tree Pruning In All Locations Where Proposed Pavement And/Or Utility Installation Encroach Within The Existing Drip Line Of Trees To Remain. All Trenching Within The Drip Line Of Existing Trees To Remain Shall Be Done Radially Away From Trunk If Roots In Excess Of 1' Diameter Are Exposed. Roots Must Be Cut By Reputable Tree Pruning Service Prior To Any Transverse Trenching. Obtain Approval Of The Architect Prior To Operations For A Variance From This Procedure.
- 10. Coordinate Tree Removal with Landscape Architect. All Trees To Be Removed Shall Be Removed In Their Entirety and Stumps Shall Be Ground to Proposed Subgrade. Use As Mulch for Proposed Landscaping Where Applicable and Acceptable to Architect
- 11. Provide Tree Protection Fencing Prior To Construction Operations. Maintain Throughout Construction.

GEOMETRY NOTES

- 1. All Dimensions Contained Herein Reference Back Of Curb, Face Of Retaining Wall, Edge Of Pavement, Center of Structure And Outside Face Of Building Foundation Unless
- 2. All Pavement Striping Shall Be 4" Wide Yellow Paint Per Specifications, **Two Coats for Latex Paints**. All Cross Hatch Striping Shall Be 45° At 2'-0" Centers.
- 3. All Accessible Parking Signs (R7-8) Must Be Placed at the Center of the Space and Within 5 Feet of the Space.
- 4. Refer to Architectural Drawings for Exact Locations of All Buildings.
- 5. Refer to Architectural Drawings for Locations and Details
- of All Permanent Site Fencing. 6. Traffic Sign Posts Shall Be Breakaway Green U-Channel Posts, 2-lb/ft, 11 Gauge Steel, Embedded 42" Minimum

UTILITY NOTES

- 1. Utility Service Lines as Shown Hereon are Approximate. Coordinate The Exact Locations With The Plumbing Drawings. Coordinate The Locations With The Plumbing Contractor and/or the Owner's Construction Representative Prior to Installation of Any New Utilities.
- 2. Refer to Plumbing Drawings for Continuation of All Utilities Within 5 Feet of Building Face.
- 3. Field Verify Invert & Locations of Existing Utility Mains Prior to Installing Any On-Site Utilities or Structures. All Elevations and Inverts Referencing Said Utility Shall Be Field Verified Prior To Installation Of Any New Structures Or Utilities, and Adjustments Shall Be Made as Necessary. Contact Engineer Prior to Installation if Discrepancy Exists With These Drawings.
- 4. Coordinate the Relocation Of Any Utilities Encountered And Replacement Of Any Utilities Damaged Within Influence Zone Of New Construction. Contact Engineer If The Existing Utilities Vary Appreciably From The Plans.
- 5. All Water Main and Services Shall Be Installed at a Minimum Depth of 5.5' From Top of Finished Ground Elevation to Top of Main.
- 6. Protection of water supplies shall be as described in Section 370.350 of the Illinois Recommended Standards for Sewage Works or Section 41-2.01 of the Standard Specifications for Water and Sewer Main Construction in Illinois, latest edition.
- 7. Clean Out All Existing and Proposed Storm Inlets and Catch Basins at the Completion of Construction.
- 8. Provide Adequate Coupling Device and/or Oversized Concrete Flared-End Section to Accommodate HDPE Storm
- 9. The "Standard Specifications for Water and Sewer Main Construction in Illinois". Current Edition Shall Govern Work Where Applicable.
- 10. Rebuild Existing Structures and Adjust Rim Elevations to Match Proposed Ground Elevations.

STRUCTURE NOTES

- 1. All Catch Basins to Be Installed in Paved Areas Shall Have Neenah R2504—D Frame & Grate or Approved Equal.
- . All Catch Basins to Be Installed in Landscaped Areas Shall Have Neenah R4340-B Frame & Grate or Approved Equal. For Cone Sections Install a Minimum of 4" Grade Rings For Topsoil Respread. For Flat Slab Tops Install the Following Minimum Height of Grade Rings: 4' Diameter Structure— 4" 5' Diameter Structure- 6" 6' Diameter Structure— 8"
- 3. All Catch Basins to Be Installed Along Curb and Gutter (B-6.12) Shall Have Neenah R3281-A Frame & Grate or
- 4. All Catch Basins to Be Installed Along Depressed Curb and Gutter (Dep B-6.12) Shall Have East Jordan Iron Works 5120 Catch Basin Inlet Frame and Grate, or Approved
- 5. Where Structures are Shown Along the Curbline, Unless Specifically Stated Otherwise, It Is Intended That the Frame of the Structure Is To Fall Within the Flowline Of The Gutter or at the Payement Edge Where No Gutter Exists.
- 6. All Manholes Shall Have Neenah R1713-B Frame & Closed Lid or Approved Equal, with "Storm" or "Sanitary"
- 7. For All Structures Indicated to be Adjusted, Remove and Install Adjusting Rings, Cone Section, Barrel Sections, or Flat Slab Top as Necessary.
- 8. All Flared End Sections 12" and Larger Shall Include an IDOT Standard Grate.
- 9. All Flared End Sections Shall Be Concrete.
- 10. All Sanitary Manholes Shall Include a Chimney Seal.

GRADING NOTES

- 1. <<if not included with erosion control notes>>Install And Maintain Silt Fence at the Perimeter of the Construction
- 2. The Grading and Construction of Proposed Improvements Shall Be Done In A Manner Which Will Allow For Positive Drainage, and Not Cause Ponding of Stormwater on the Surface of Proposed Improvements.
- 3. All Landscaped Areas Disturbed By Construction Shall Be Respread With 6 Inches (Min.) to 12 Inches (Max.) Topsoil and **Sodded** Unless Noted Otherwise On The Landscape
- 4. Refer to Architectural Drawings for Locations and Patterns of Expansion and Control Joints in Concrete Pavement and
- 5. Accessible Parking Spaces and Loading Spaces Shall Be Sloped at Maximum 2.0% in Any Direction. Maximum Sidewalk Cross Slopes Shall be 2.0%. Maximum Longitudinal Sidewalk Slope Shall Be 4.9%. Contact Engineer if Conflicts Exist.
- Rebuild Existing Structures and Adjust Rim Elevations to Match Proposed Ground Elevations.

SOIL EROSION & SEDIMENTATION CONTROL NOTES

- 1. Illinois Urban Manual Shall Govern All Soil Erosion and Sediment Control, and Related Work.
- 2. Contractor Shall Be Responsible for Compliance With IEPA NPDES and ILR10 Permit Requirements for Project.
- 3. Soil Disturbance Shall Be Conducted in Such a Manner as To Minimize Erosion. Soil Stabilization Measures Shall Consider the Time of Year, Site Conditions, and the Use of Temporary or Permanent Measures.
- 4. Soil Erosion and Sediment Control Features Shall Be Constructed Prior to the Commencement of Upland Disturbance.
- 5. Temporary Soil Stabilization Shall Be Applied to Topsoil Stockpiles and Disturbed Areas, Where Construction Activity Will Not Occur For A Period of More Than 14 Calendar Days, Temporary Measures Shall Be Applied Within 7 Calendar Days of the End of Active Hydrologic Disturbance The Sediment Control Measures Shall Be Maintained On A Continuing Basis Until The Site Is Permanently Stabilized And All Inspections Are Complete, Permanent Stabilization Shall Be Completed Within 14 Days after Completion of Final Grading of Soil.
- 6. All Temporary And Permanent Erosion Control Measures Shall Be Removed Within 30 Days After Final Site Stabilization Is Achieved Or After The Temporary Measures Are No Longer Needed. Trapped Sediment And Other Disturbed Soil Areas Shall Be Permanently Stabilized.
- 7. Final Site Stabilization Is Defined By The EPA General Permit As Meaning That All Soil Disturbing Activities At The Site Have Been Completed, And That A Uniform Perennial Vegetative Cover With A Density Of 70 Percent Of The Cover For Unpaved Areas Not Covered By Permanent Structures Has Been Established Or Equivalent Permanent Stabilization Measures (Such As The Use Of Riprap, Gabions, Or Geotextiles) Have Been Employed.
- 8. All Storm Sewer Structures That Are, Or Will Be, Functioning During Construction Shall Be Protected, Filtered, Or Otherwise Treated To Remove Sediment. The General Contractor Shall Use "Catch-All" Inlet Protectors (or equal) and Filter Wattles Around The Grate In Landscaped Areas And "Catch-All" Inlet Protectors (or equal) In Paved Areas To Prevent Siltation.
- 9. All Storm Sewer Structures That Are, Or Will Be, Functioning During Construction Shall Be Protected, Filtered. Or Otherwise Treated To Remove Sediment. The General Contractor Shall Use and Maintain "Dandy Pop" Inlet Protectors (or equal) and Filter Wattles Around The Grate In Landscaped Areas And "Catch-All" Inlet Protectors (or equal, such as Pork Chop Sediguard) In Paved Areas To Prevent Siltation and Discharge Into Waterways.
- 10. All Temporary And Permanent Sediment And Erosion Control Measures Must Be Maintained, Repaired, And Inspected In Conformance With All Applicable IEPA-NPDES Phase II And Lake County DECI Requirements.
- 11. Following The Termination Of Construction Activities And Issuance Of The Required "Notice Of Termination", The Permittees Must Keep A Copy Of The Storm Water Pollution Prevention Plan, Inspection Reports, And Records Of All The Data Used To Complete The Notice Of Intent For A Period Of At Least Three Years Following Final
- 12. Install And Maintain Silt Fence At The Perimeter Of The Construction Zone And Wetland Areas And As Shown On The Plans. Maintain Silt Fence Throughout Construction And Until Vegetation Has Been Fully Established.
- 13. Contractor Shall Provide Qualified Soil Erosion and Sediment Control Inspector Services in Accordance with NPDES and Governmental Requirements. Inspections Shall Occur at Every Seven Calendar Days Or Within 24 Hours of a 0.5" or Greater Rainfall Event. Engineer Shall Be Copied on Inspection Logs.
- 14. The Erosion Control Measures Indicated On The Drawings Are The Minimum Requirements. Additional Measures May Be Required As Directed By The Qualified Soil and Erosion Sediment and Control Inspector Or Governing Agency.
- 15. Unless Otherwise Indicated on the Drawings, Stabilize All Disturbed Ground Areas Where Slopes Exceed 6:1 or Within Swales with North American Green BioNet SC150BN Erosion
- Control Blanket, or Approved Equal. 16. Report Releases of Reportable Quantities of Oil or

Hazardous Materials If They Occur In Accordance with IEPA

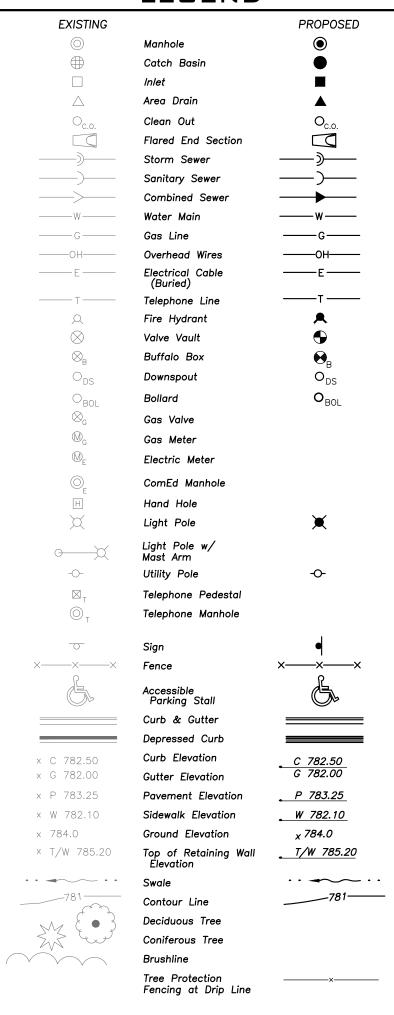
- NPDES Requirements. 17. All Concrete Washout Shall Conform To The "Temporary Concrete Washout Facility" Standards (Code 954) of the
- Illinois Urban Manual, Latest Edition. 18. If Necessary, The SWPPP Shall Be Modified To Reflect Changes Required During The Effective Period Of The IEPA NPDES General Permit No ILR10 and Local and County
- 19. Dewatering of Excavations Shall be Performed in a Manner Such as Through the use of Filter Bags or Polymer Treated Dewatering Swales, so as to Not Discharge Sediment Laden Water Into Storm Sewers Tributary to

INTENDED SEQUENCE OF MAJOR SEDIMENT AND EROSION CONTROL MEASURES

- Install Stabilized Construction Entrance
- 2. Install All Downslope and Sideslope Perimeter Controls Before Commencement of Any Ground Disturbing Activity.
- 3. Do Not Disturb An Area Until It Is Necessary For Construction To Proceed.
- 4. Cover and Stabilize Disturbed Areas As Soon As Possible. 5. When Practical, Time Construction Activities To Limit Impact
- From Seasonal Climate Changes or Weather Events. Perform Grading Operations and Installation of Site
- Infrastructure and Pavement. 3. Install Permanent Seeding and Plantings. . Remove Accumulated Sediment From Basins and Along Silt
- Following Stabilization of Upstream Drainage Areas. 11. Remove Temporary Sediment and Erosion Control Measures Following Final Stabilization of All Disturbed Areas.

10. Construction of Infiltration Measures Shall Take Place

LEGEND



DEMOLITION LEGEND

(Full Depth)

(Full Depth)

Structure Removal

Tree Removal

Bituminous Pavement Removal

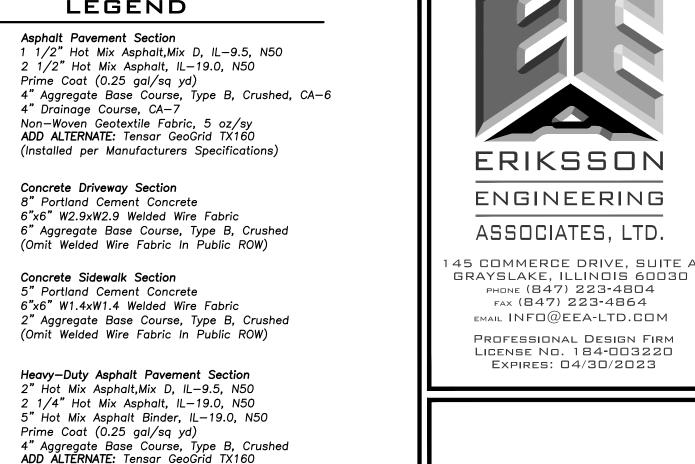
Concrete Pavement Removal

/// /// Utility Line Removal

_ _ _ _ _ Pavement Sawcut

XX XX Curb & Gutter Removal

PAVING & SURFACE LEGEND

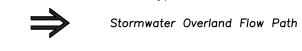


ERIKSSON

BASE BID: Asphalt Pavement Section 1 1/2" Hot Mix Asphalt, Mix D, IL-9.5, N50 2 1/2" Hot Mix Asphalt, IL-19.0, N50 Prime Coat (0.25 gal/sq yd) 4" Aggregate Base Course, Type B, Crushed, CA-6 4" Drainage Course, CA-7 Non-Woven Geotextile Fabric, 5 oz/sy ADD ALTERNATE: Tensar GeoGrid TX160 (Installed per Manufacturer's Specifications) Flush Band Curb Omitted If Base Bid Is Selected. ALTERNATE: UniLock Eco-Priora Permeable Paver Large or Small Square (TBD by Architect And/Or Color: Heritage Brown 3-1/8" Paver Depth 1-1/2" CA-16 Setting Bed 6" Min. CA-7 (Variable Based On Pavement Slope) 12" CA-1 Permeable Subbase Aggregate Subbase Stone Shall Be Wrapped In

Non-Woven Geotextile Fabric As Required By The

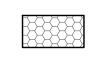
(Installed per Manufacturers Specifications)



— — — Ridge Line/High Point

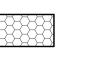
MWRD. Tvp.

SOIL EROSION & SEDIMENTATION CONTROL LEGEND



Erosion Control Blanket North American Green DS75 Or Approved Equal Unless Noted Otherwise On Landscape

Silt Fence



ALL DISTURBED LANDSCAPED AREAS Plans

Catch-All, Pork Chop Sediguard (or equal) Paved or Existing Stabilized

Reserved for Seal:

No. Date Description 12/06/22 ISSUE FOR PLAN COMMISSION 01/20/23 REVISED FOR PLAN COMMISSIO 2\ 02/01/23 REVISED FOR PLAN COMMISSIO

Design By: Approved By: Date:

LMR JC 02/01/23

SITE WORK NOTES AND LEGENDS

A. REFERENCED SPECIFICATIONS

- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE APPLICABLE SECTIONS OF THE FOLLOWING, EXCEPT AS MODIFIED HEREIN OR ON THE PLANS:
- * STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (LATEST EDITION), BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION (IDOT SS) FOR ALL IMPROVEMENTS EXCEPT SANITARY SEWER AND WATER MAIN CONSTRUCTION;
- * STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS, LATEST
- EDITION (SSWS) FOR SANITARY SEWER AND WATER MAIN CONSTRUCTION; * VILLAGE OF MUNICIPAL CODE; * THE METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO (MWRD) WATERSHED
- MANAGEMENT ORDINANCE AND TECHNICAL GUIDANCE MANUAL; * IN CASE OF CONFLICT BETWEEN THE APPLICABLE ORDINANCES NOTED, THE MORE STRINGENT SHALL TAKE PRECEDENCE AND SHALL CONTROL ALL CONSTRUCTION.

B. NOTIFICATIONS

- 1. THE MWRD LOCAL SEWER SYSTEMS SECTION FIELD OFFICE MUST BE NOTIFIED AT LEAST TWO (2) WORKING DAYS PRIOR TO THE COMMENCEMENT OF ANY WORK (CALL 708-588-4055 OR SEND EMAIL NOTIFICATION WITH PROJECT NAME, LOCATION AND PERMIT NUMBER TO <u>WMOJOBSTART@MWRD.ORG</u>).
- 2. THE VILLAGE OF ENGINEERING DEPARTMENT AND PUBLIC MUST BE NOTIFIED AT LEAST 24 HOURS PRIOR TO THE START OF CONSTRUCTION AND PRIOR TO EACH PHASE OF WORK. CONTRACTOR SHALL DETERMINE ITEMS REQUIRING INSPECTION PRIOR TO START OF CONSTRUCTION OR EACH WORK PHASE.
- 3. THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES PRIOR TO BEGINNING CONSTRUCTION FOR THE EXACT LOCATIONS OF UTILITIES AND FOR THEIR PROTECTION DURING CONSTRUCTION. IF EXISTING UTILITIES ARE ENCOUNTERED THAT CONFLICT IN LOCATION WITH NEW CONSTRUCTION, IMMEDIATELY NOTIFY THE ENGINEER SO THAT THE CONFLICT CAN BE RESOLVED. CALL J.U.L.I.E. AT 1-800-892-0123.
- C. GENERAL NOTES
- ALL ELEVATIONS SHOWN ON PLANS REFERENCE THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88). CONVERSION FACTOR IS ______ FT.
- 2. MWRD, THE MUNICIPALITY AND THE OWNER OR OWNER'S REPRESENTATIVE SHALL HAVE THE AUTHORITY TO INSPECT, APPROVE, AND REJECT THE CONSTRUCTION IMPROVEMENTS.
- 3. THE CONTRACTOR(S) SHALL INDEMNIFY THE OWNER, ENGINEER, MUNICIPALITY, MWRD, AND THEIR AGENTS, ETC., FROM ALL LIABILITY INVOLVED WITH THE CONSTRUCTION, INSTALLATION, OR TESTING OF THIS WORK ON THE PROJECT.
- 4. THE PROPOSED IMPROVEMENTS MUST BE CONSTRUCTED IN ACCORDANCE WITH THE ENGINEERING PLANS AS APPROVED BY MWRD AND THE MUNICIPALITY UNLESS CHANGES ARE APPROVED BY MWRD, THE MUNICIPALITY, OR AUTHORIZED AGENT. THE CONSTRUCTION DETAILS, AS PRESENTED ON THE PLANS, MUST BE FOLLOWED. PROPER CONSTRUCTION TECHNIQUES MUST BE FOLLOWED ON THE IMPROVEMENTS INDICATED ON THE PLANS.
- 5. THE LOCATION OF VARIOUS UNDERGROUND UTILITIES WHICH ARE SHOWN ON THE PLANS ARE FOR INFORMATION ONLY AND REPRESENT THE BEST KNOWLEDGE OF THE ENGINEER. VERIFY LOCATIONS AND ELEVATIONS PRIOR TO BEGINNING THE CONSTRUCTION OPERATIONS.
- 6. ANY EXISTING PAVEMENT, SIDEWALK, DRIVEWAY, ETC., DAMAGED DURING CONSTRUCTION OPERATIONS AND NOT CALLED FOR TO BE REMOVED SHALL BE REPLACED AT THE EXPENSE OF THE CONTRACTOR.
- 7. MATERIAL AND COMPACTION TESTING SHALL BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF THE MUNICIPALITY, MWRD, AND OWNER.
- 8. THE UNDERGROUND CONTRACTOR SHALL MAKE ALL NECESSARY ARRANGEMENTS TO NOTIFY ALL INSPECTION AGENCIES.
- 9. ALL NEW AND EXISTING UTILITY STRUCTURES ON SITE AND IN AREAS DISTURBED DURING CONSTRUCTION SHALL BE ADJUSTED TO FINISH GRADE PRIOR TO FINAL INSPECTION.
- 10. RECORD DRAWINGS SHALL BE KEPT BY THE CONTRACTOR AND SUBMITTED TO THE ENGINEER AS SOON AS UNDERGROUND IMPROVEMENTS ARE COMPLETED. FINAL PAYMENTS TO THE CONTRACTOR SHALL BE HELD UNTIL THEY ARE RECEIVED. ANY CHANGES IN LENGTH, LOCATION OR ALIGNMENT SHALL BE SHOWN IN RED. ALL WYES OR BENDS SHALL BE LOCATED FROM THE DOWNSTREAM MANHOLE. ALL VALVES, B-BOXES, TEES OR BENDS SHALL BE TIED TO A FIRE HYDRANT.

D. SANITARY SEWER

- L. THE CONTRACTOR SHALL TAKE MEASURES TO PREVENT ANY POLLUTED WATER, SUCH AS GROUND AND SURFACE WATER, FROM ENTERING THE EXISTING SANITARY SEWERS.
- 2. A WATER-TIGHT PLUG SHALL BE INSTALLED IN THE DOWNSTREAM SEWER PIPE AT THE POINT OF SEWER CONNECTION PRIOR TO COMMENCING ANY SEWER CONSTRUCTION. THE PLUG SHALL REMAIN IN PLACE UNTIL REMOVAL IS AUTHORIZED BY THE MUNICIPALITY AND/OR MWRD AFTER THE SEWERS HAVE BEEN TESTED AND ACCEPTED.
- 3. DISCHARGING ANY UNPOLLUTED WATER INTO THE SANITARY SEWER SYSTEM FOR THE PURPOSE OF SEWER FLUSHING OF LINES FOR THE DEFLECTION TEST SHALL BE PROHIBITED WITHOUT PRIOR APPROVAL
- FROM THE MUNICIPALITY OR MWRD.
 4. ALL SANITARY SEWER CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS (LATEST EDITION).
- ALL FLOOR DRAINS SHALL DISCHARGE TO THE SANITARY SEWER SYSTEM.
- 6. ALL DOWNSPOUTS AND FOOTING DRAINS SHALL DISCHARGE TO THE STORM SEWER SYSTEM.
- 7. ALL SANITARY SEWER PIPE MATERIALS AND JOINTS (AND STORM SEWER PIPE MATERIALS AND JOINTS IN A COMBINED SEWER AREA) SHALL CONFORM TO THE FOLLOWING:

- PIPE MATERIAL PIPE SPECIFICATIONS JOINT SPECIFICATIONS VITRIFIED CLAY PIPE ASTM C-700 ASTM C-425 REINFORCED CONCRETE SEWER PIPE ASTM C-76 ASTM C-443 CAST IRON SOIL PIPE ASTM A-74 ASTM C-564 ANSI A21.51 ANSI A21.11 DUCTILE IRON PIPE POLYVINYL CHLORIDE (PVC) PIPE 6-INCH TO 15-INCH DIAMETER SDR 26 ASTM D-3034 ASTM D-3212 18-INCH TO 27-INCH DIAMETER F/DY=46 ASTM F-679 ASTM D-3212 ASTM D-3261,F-2620 (HEAT FUSION) HIGH DENSITY POLYETHYLENE (HDPE) ASTM D-3035 ASTM D-3212,F-477 (GASKETED) WATER MAIN QUALITY PVC ASTM D-2241 4-INCH TO 36-INCH ASTM D-3139 ASTM D-3139 4-INCH TO 12-INCH AWWA C900 14-INCH TO 48-INCH AWWA C905 ASTM D-3139
- THE FOLLOWING MATERIALS ARE ALLOWED ON A QUALIFIED BASIS SUBJECT TO DISTRICT REVIEW AND APPROVAL PRIOR TO PERMIT ISSUANCE. A SPECIAL CONDITION WILL BE ADDED TO THE PERMIT WHEN THE PIPE MATERIAL BELOW IS USED FOR SEWER CONSTRUCTION OR A CONNECTION IS MADE.

<u>PIPE MATERIAL</u> POLYPROPYLENE (PP) PIPE	PIPE SPECIFICATIONS	JOINT SPECIFICATIONS
12-INCH TO 24-INCH DOUBLE WALL	ASTM F-2736	D-3212, F-477
30-INCH TO 60-INCH TRIPLE WALL	ASTM F-2764	D3212, F-477

- 8. ALL SANITARY SEWER CONSTRUCTION (AND STORM SEWER CONSTRUCTION IN COMBINED SEWER AREAS) REQUIRES STONE BEDDING WITH STONE ¼ "TO 1" IN SIZE, WITH MINIMUM BEDDING THICKNESS EQUAL TO 1/4 THE OUTSIDE DIAMETER OF THE SEWER PIPE, BUT NOT LESS THAN FOUR (4) INCHES NOR MORE THAN EIGHT (8) INCHES. MATERIAL SHALL BE CA-7, CA-11 OR CA-13 AND SHALL BE EXTENDED AT LEAST 12' ABOVE THE TOP OF THE PIPE WHEN USING PVC.
- 9. NON-SHEAR FLEXIBLE-TYPE COUPLINGS SHALL BE USED IN THE CONNECTION OF SEWER PIPES OF DISSIMILAR PIPE MATERIALS.
- 10. ALL MANHOLES SHALL BE PROVIDED WITH BOLTED, WATERTIGHT COVERS. SANITARY LIDS SHALL BE CONSTRUCTED WITH A CONCEALED PICKHOLE AND WATERTIGHT GASKET WITH THE WORD "SANITARY" CAST INTO THE LID.
- 11. WHEN CONNECTING TO AN EXISTING SEWER MAIN BY MEANS OTHER THAN AN EXISTING WYE, TEE, OR AN EXISTING MANHOLE, ONE OF THE FOLLOWING METHODS SHALL BE USED: a) A CIRCULAR SAW-CUT OF SEWER MAIN BY PROPER TOOLS ("SHEWER-TAP" MACHINE OR SIMILAR) AND PROPER INSTALLATION OF HUBWYE SADDLE OR HUB-TEE SADDLE. b) REMOVE AN ENTIRE SECTION OF PIPE (BREAKING ONLY THE TOP OF ONE BELL) AND REPLACE WITH
- A WYE OR TEE BRANCH SECTION. c) WITH PIPE CUTTER, NEATLY AND ACCURATELY CUT OUT DESIRED LENGTH OF PIPE FOR INSERTION OF PROPER FITTING, USING "BAND SEAL" OR SIMILAR COUPLINGS TO HOLD IT FIRMLY IN PLACE.
- 12. WHENEVER A SANITARY/COMBINED SEWER CROSSES UNDER A WATERMAIN, THE MINIMUM VERTICAL DISTANCE FROM THE TOP OF THE SEWER TO THE BOTTOM OF THE WATERMAIN SHALL BE 18 INCHES. FURTHERMORE, A MINIMUM HORIZONTAL DISTANCE OF 10 FEET BETWEEN SANITARY/COMBINED SEWERS AND WATERMAINS SHALL BE MAINTAINED UNLESS: THE SEWER IS LAID IN A SEPARATE TRENCH, KEEPING A MINIMUM 18" VERTICAL SEPARATION; OR THE SEWER IS LAID IN THE SAME TRENCH WITH THE WATERMAIN LOCATED AT THE OPPOSITE SIDE ON A BENCH OF UNDISTURBED EARTH, KEEPING A MINIMUM 18" VERTICAL SEPARATION. IF EITHER THE VERTICAL OR HORIZONTAI DISTANCES DESCRIBED CANNOT BE MAINTAINED, OR THE SEWER CROSSES ABOVE THE WATER MAIN, THE SEWER SHALL BE CONSTRUCTED TO WATER MAIN STANDARDS OR IT SHALL BE ENCASED WITH A WATER MAIN QUALITY CARRIER PIPE WITH THE ENDS SEALED.
- 13. ALL EXISTING SEPTIC SYSTEMS SHALL BE ABANDONED. ABANDONED TANKS SHALL BE FILLED WITH GRANULAR MATERIAL OR REMOVED.
- 14. ALL SANITARY MANHOLES, (AND STORM MANHOLES IN COMBINED SEWER AREAS), SHALL HAVE A MINIMUM INSIDE DIAMETER OF 48 INCHES, AND SHALL BE CAST IN PLACE OR PRE-CAST REINFORCED
- 15. ALL SANITARY MANHOLES, (AND STORM MANHOLES IN COMBINED SEWER AREAS), SHALL HAVE PRECAST "RUBBER BOOTS" THAT CONFORM TO ASTM C-923 FOR ALL PIPE CONNECTIONS. PRECAST SECTIONS SHALL CONSIST OF MODIFIED GROOVE TONGUE AND RUBBER GASKET TYPE JOINTS.
- 16. ALL ABANDONED SANITARY SEWERS SHALL BE PLUGGED AT BOTH ENDS WITH AT LEAST 2 FEET LONG NON-SHRINK CONCRETE OR MORTAR PLUG.
- 17. EXCEPT FOR FOUNDATION/FOOTING DRAINS PROVIDED TO PROTECT BUILDINGS, OR PERFORATED PIPES ASSOCIATED WITH VOLUME CONTROL FACILITIES, DRAIN TILES/FIELD TILES/UNDERDRAINS/PERFORATED PIPES ARE NOT ALLOWED TO BE CONNECTED TO OR TRIBUTARY TO COMBINED SEWERS, SANITARY SEWERS, OR STORM SEWERS TRIBUTARY TO COMBINED SEWERS IN COMBINED SEWER AREAS. CONSTRUCTION OF NEW FACILITIES OF THIS TYPE IS PROHIBITED; AND ALL EXISTING DRAIN TILES AND PERFORATED PIPES ENCOUNTERED WITHIN THE PROJECT AREA SHALL BE PLUGGED OR REMOVED, AND SHALL NOT BE CONNECTED TO COMBINED SEWERS, SANITARY SEWERS, OR STORM SEWERS TRIBUTARY TO COMBINED SEWERS.
- 18. A BACKFLOW PREVENTER IS REQUIRED FOR ALL DETENTION BASINS TRIBUTARY TO COMBINED SEWERS. REQUIRED BACKFLOW PREVENTERS SHALL BE INSPECTED AND EXERCISED ANNUALLY BY THE PROPERTY OWNER TO ENSURE PROPER OPERATION, AND ANY NECESSARY MAINTENANCES SHALL BE PERFORMED TO ENSURE FUNCTIONALITY. IN THE EVENT OF A SEWER SURCHARGE INTO AN OPEN DETENTION BASIN TRIBUTARY TO COMBINED SEWERS, THE PERMITTEE SHALL ENSURE THAT CLEAN UP AND WASH OUT OF SEWAGE TAKES PLACE WITHIN 48 HOURS OF THE STORM EVENT.

- E. EROSION AND SEDIMENT CONTROL
- 1. THE CONTRACTOR SHALL INSTALL THE EROSION AND SEDIMENT CONTROL DEVICES AS SHOWN ON THE APPROVED EROSION AND SEDIMENT CONTROL PLAN.
- 2. EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE FUNCTIONAL PRIOR TO HYDROLOGIC DISTURBANCE OF THE SITE.
- 3. ALL DESIGN CRITERIA, SPECIFICATIONS, AND INSTALLATION OF EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE IN ACCORDANCE WITH THE ILLINOIS URBAN MANUAL.
- 4. A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN SHALL BE MAINTAINED ON THE SITE AT ALL TIMES.
- 5. INSPECTIONS AND DOCUMENTATION SHALL BE PERFORMED, AT A MINIMUM: a) UPON COMPLETION OF INITIAL EROSION AND SEDIMENT CONTROL MEASURES, PRIOR TO ANY

SHALL PLAN FOR APPROPRIATE SOIL EROSION AND SEDIMENT CONTROL MEASURES.

- b) ONCE EVERY SEVEN (7) CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM EVENT WITH GREATER THAN 0.5 INCH OF RAINFALL OR LIQUID EQUIVALENT PRECIPITATION.
- 6. SOIL DISTURBANCE SHALL BE CONDUCTED IN SUCH A MANNER AS TO MINIMIZE EROSION. IF STRIPPING, CLEARING, GRADING, OR LANDSCAPING ARE TO BE DONE IN PHASES, THE CO-PERMITTEE
- 7. A STABILIZED MAT OF CRUSHED STONE MEETING THE STANDARDS OF THE ILLINOIS URBAN MANUAL SHALL BE INSTALLED AT ANY POINT WHERE TRAFFIC WILL BE ENTERING OR LEAVING A CONSTRUCTION SITE. SEDIMENT OR SOIL REACHING AN IMPROVED PUBLIC RIGHT-OF-WAY, STREET, ALLEY OR PARKING AREA SHALL BE REMOVED BY SCRAPING OR STREET CLEANING AS ACCUMULATIONS WARRANT AND TRANSPORTED TO A CONTROLLED SEDIMENT DISPOSAL AREA.
- 8. CONCRETE WASHOUT FACILITIES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE ILLINOIS URBAN MANUAL AND SHALL BE INSTALLED PRIOR TO ANY ON SITE CONSTRUCTION ACTIVITIES INVOLVING
- 9. MORTAR WASHOUT FACILITIES SHALL BE CONSTRUCTED IN ADDITION TO CONCRETE WASHOUT FACILITIES FOR ANY BRICK AND MORTAR BUILDING ENVELOPE CONSTRUCTION ACTIVITIES.
- 10. TEMPORARY DIVERSIONS SHALL BE CONSTRUCTED AS NECESSARY TO DIRECT ALL RUNOFF FROM HYDROLOGICALLY DISTURBED AREAS TO AN APPROPRIATE SEDIMENT TRAP OR BASIN. VOLUME CONTROL FACILITIES SHALL NOT BE USED AS TEMPORARY SEDIMENT BASINS.
- 11. DISTURBED AREAS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED SHALL BE STABILIZED WITH TEMPORARY OR PERMANENT MEASURES WITHIN SEVEN (7) DAYS.
- 12. ALL FLOOD PROTECTION AREAS AND VOLUME CONTROL FACILITIES SHALL, AT A MINIMUM, BE PROTECTED WITH A DOUBLE-ROW OF SILT FENCE (OR EQUIVALENT).
- 13. VOLUME CONTROL FACILITIES SHALL NOT BE CONSTRUCTED UNTIL ALL OF THE CONTRIBUTING DRAINAGE AREA HAS BEEN STABILIZED.
- 14. SOIL STOCKPILES SHALL, AT A MINIMUM, BE PROTECTED WITH PERIMETER SEDIMENT CONTROLS. SOIL STOCKPILES SHALL NOT BE PLACED IN FLOOD PROTECTION AREAS OR THEIR BUFFERS.
- 15. EARTHEN EMBANKMENT SIDE SLOPES SHALL BE STABILIZED WITH APPROPRIATE EROSION CONTROL
- 16. STORM SEWERS THAT ARE OR WILL BE FUNCTIONING DURING CONSTRUCTION SHALL BE PROTECTED BY APPROPRIATE SEDIMENT CONTROL MEASURES.
- 17. THE CONTRACTOR SHALL EITHER REMOVE OR REPLACE ANY EXISTING DRAIN TILES AND INCORPORATE THEM INTO THE DRAINAGE PLAN FOR THE DEVELOPMENT. DRAIN TILES CANNOT BE TRIBUTARY TO A SANITARY OR COMBINED SEWER. DRAIN TILES ALLOWED IN COMBINED SEWER AREA FOR GREEN INFRASTRUCTURE PRACTICES.
- 18. IF DEWATERING SERVICES ARE USED, ADJOINING PROPERTIES AND DISCHARGE LOCATIONS SHALL BE PROTECTED FROM EROSION AND SEDIMENTATION. DEWATERING SYSTEMS SHOULD BE INSPECTED DAILY DURING OPERATIONAL PERIODS. THE SITE INSPECTOR MUST BE PRESENT AT THE COMMENCEMENT OF DEWATERING ACTIVITIES.
- 19. THE CONTRCTOR SHALL BE RESPONSIBLE FOR TRENCH DEWATERING AND EXCAVATION FOR THE INSTALLATION OF SANITARY SEWERS, STORM SEWERS, WATERMAINS AS WELL AS THEIR SERVICES AND OTHER APPURTENANCES. ANY TRENCH DEWATERING, WHICH CONTAINS SEDIMENT SHALL PASS THROUGH A SEDIMENT SETTLING POND OR EQUALLY EFFECTIVE SEDIMENT CONTROL DEVICE. ALTERNATIVES MAY INCLUDE DEWATERING INTO A SUMP PIT, FILTER BAG OR EXISTING VEGETATED UPSLOPE AREA. SEDIMENT LADEN WATERS SHALL NOT BE DISCHARGE TO WATERWAYS, FLOOD PROTECTION AREAS OR THE COMBINED SEWER SYSTEM.
- 20. ALL PERMANENT EROSION CONTROL PRACTICES SHALL BE INITIATED WITHIN SEVEN (7) DAYS FOLLOWING THE COMPLETION OF SOIL DISTURBING ACTIVITIES.
- 21. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED AND REPAIRED AS NEEDED ON A YEAR-ROUND BASIS DURING CONSTRUCTION AND ANY PERIODS OF CONSTRUCTION SHUTDOWN UNTIL PERMANENT STABILIZATION IS ACHIEVED.
- 22. ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN THIRTY (30) DAYS AFTER PERMANENT SITE STABILIZATION.
- 23. THE EROSION AND SEDIMENT CONTROL MEASURES SHOWN ON THE PLANS ARE THE MINIMUM REQUIREMENTS. ADDITIONAL MEASURES MAY BE REQUIRED, AS DIRECTED BY THE ENGINEER, SITÉ INSPECTOR, OR MWRD.

ASSOCIATES, LTD. 45 COMMERCE DRIVE, SHITE A GRAYSLAKE, ILLINOIS 60030

PHONE (847) 223-4804 _{FAX} (847) 223-4864 EMAIL INFO@EEA-LTD.COM PROFESSIONAL DESIGN FIRM LICENSE No. 184-003220

Expires: 04/30/2023

ERIKSSON

ENGINEERING

Reserved for Seal:

No. Date Description 12/06/22 ISSUE FOR PLAN COMMISSION 01/20/23 REVISED FOR PLAN COMMISSION 2\ 02/01/23 REVISED FOR PLAN COMMISSIO

Design By: Approved By: Date:

LMR JC 02/01/2

10/13/2022

STD. DWG. NO.18

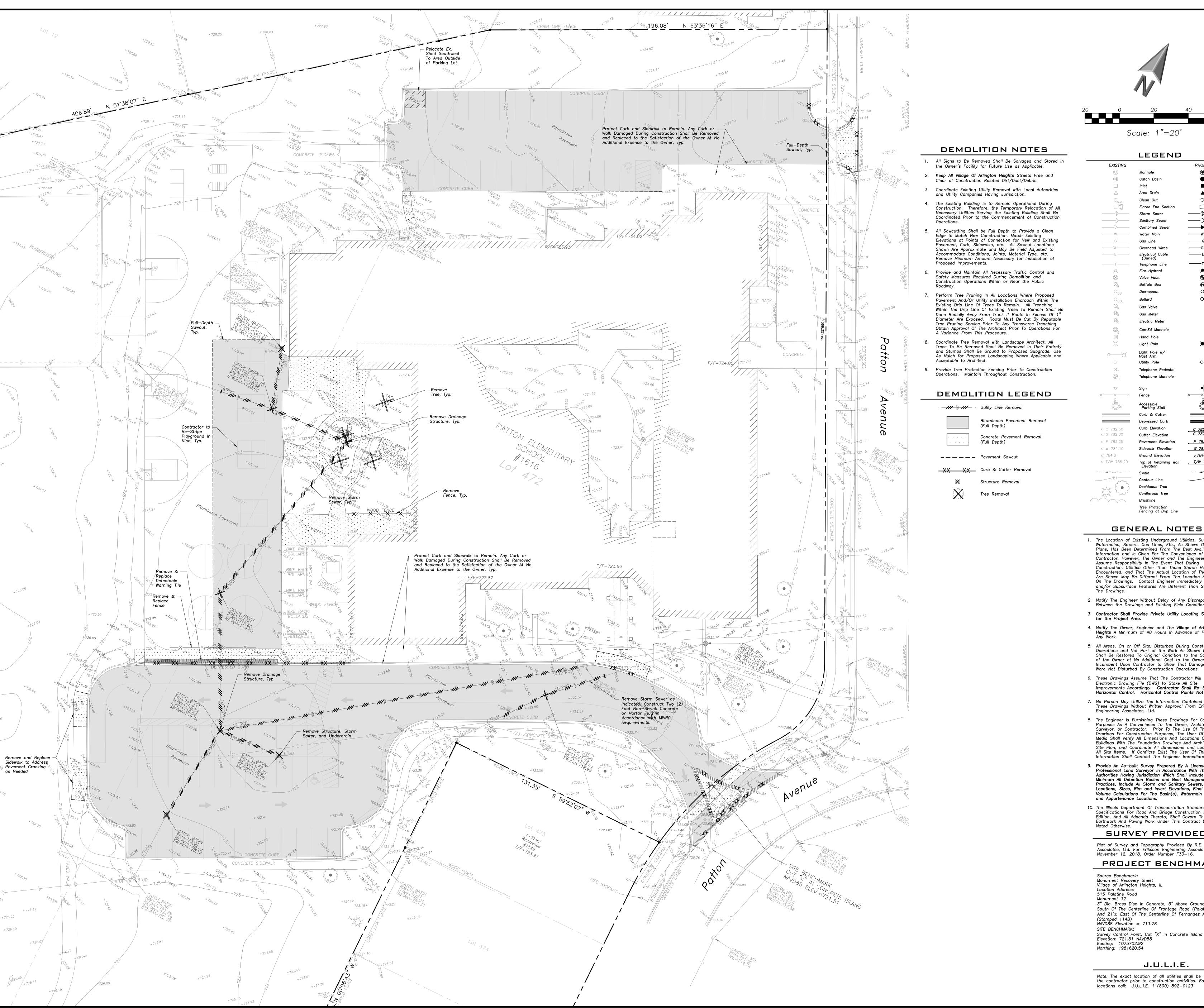
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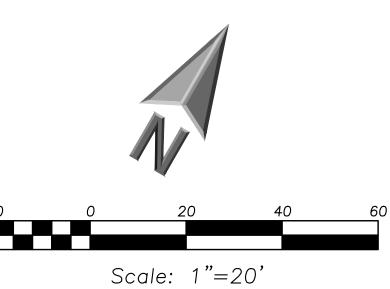
MWRD GENERAL NOTES

C005

TECHNICAL GUIDANCE MANUAL

MWRD GENERAL NOTES





LEGEND

Catch Basin

Area Drain

Clean Out

Flared End Section

——w—

———G——

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——Е——

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Sanitary Sewer

Overhead Wires

Telephone Line Fire Hydrant

Valve Vault

Buffalo Box Downspout

Gas Meter

Hand Hole

Light Pole

Light Pole w/ Mast Arm

Utility Pole

Curb Elevation

Telephone Pedestal Telephone Manhole

Electric Meter

ComEd Manhole

____x___ Fencing at Drip Line

- The Location of Existing Underground Utilities, Such As Watermains, Sewers, Gas Lines, Etc., As Shown On The Plans, Has Been Determined From The Best Available Information and Is Given For The Convenience of The Contractor. However, The Owner and The Engineer Do Not Assume Responsibility In The Event That During Construction, Utilities Other Than Those Shown May Be Encountered, and That The Actual Location of Those Which Are Shown May Be Different From The Location As Shown On The Drawings. Contact Engineer Immediately If Surface and/or Subsurface Features Are Different Than Shown On
- Notify The Engineer Without Delay of Any Discrepancies Between the Drawings and Existing Field Conditions.
- 3. Contractor Shall Provide Private Utility Locating Services for the Project Area.
- 4. Notify The Owner, Engineer and The Village of Arlington
 Heights A Minimum of 48 Hours In Advance of Performing
- 5. All Areas, On or Off Site, Disturbed During Construction Operations and Not Part of the Work As Shown Hereon Shall Be Restored To Original Condition to the Satisfaction of the Owner at No Additional Cost to the Owner. It is Incumbent Upon Contractor to Show That Damaged Areas Were Not Disturbed By Construction Operations.
- 6. These Drawings Assume That The Contractor Will Utilize An Electronic Drawing File (DWG) to Stake All Site Improvements Accordingly. Contractor Shall Re-Establish Horizontal Control. Horizontal Control Points Not Provided.
- 7. No Person May Utilize The Information Contained Within These Drawings Without Written Approval From Eriksson Engineering Associates, Ltd.
- 8. The Engineer Is Furnishing These Drawings For Construction Purposes As A Convenience To The Owner, Architect, Surveyor, or Contractor. Prior To The Use Of These Drawings For Construction Purposes, The User Of This Media Shall Verify All Dimensions And Locations Of Buildings With The Foundation Drawings And Architectural Site Plan, and Coordinate All Dimensions and Locations of All Site Items. If Conflicts Exist The User Of This Information Shall Contact The Engineer Immediately.
- 9. Provide An As-built Survey Prepared By A Licensed Professional Land Surveyor In Accordance With The Authorities Having Jurisdiction Which Shall Include As a Minimum All Detention Basins and Best Management Practices, Include All Storm and Sanitary Sewers, Structure Locations, Sizes, Rim and Invert Elevations, Final Detention Volume Calculations For The Basin(s), Watermain and Valve and Appurtenance Locations.
- 10. The Illinois Department Of Transportation Standard Specifications For Road And Bridge Construction Latest Edition, And All Addenda Thereto, Shall Govern The Earthwork And Paving Work Under This Contract Unless

SURVEY PROVIDED BY:

Plat of Survey and Topography Provided By R.E. Allen and Associates, Ltd. For Eriksson Engineering Associates on November 12, 2018. Order Number F33-16.

PROJECT BENCHMARKS

Source Benchmark: Monument Recovery Sheet Village of Arlington Heights, IL Location Address: 515 Palatine Road

Monument 32 3" Dia. Brass Disc In Concrete, 5" Above Ground, 44'± South Of The Centerline Of Frontage Road (Palatine Road) And 21'± East Of The Centerline Of Fernandez Avenue (Stamped 114B) NAVD88 Elevation = 713.78

SITE BENCHMARK: Survey Control Point, Cut "X" in Concrete Island Elevation: 721.51 NAVD88 Easting: 1075702.92 Northing: 1981620.54

J.U.L.I.E.

Note: The exact location of all utilities shall be verified by the contractor prior to construction activities. For utility

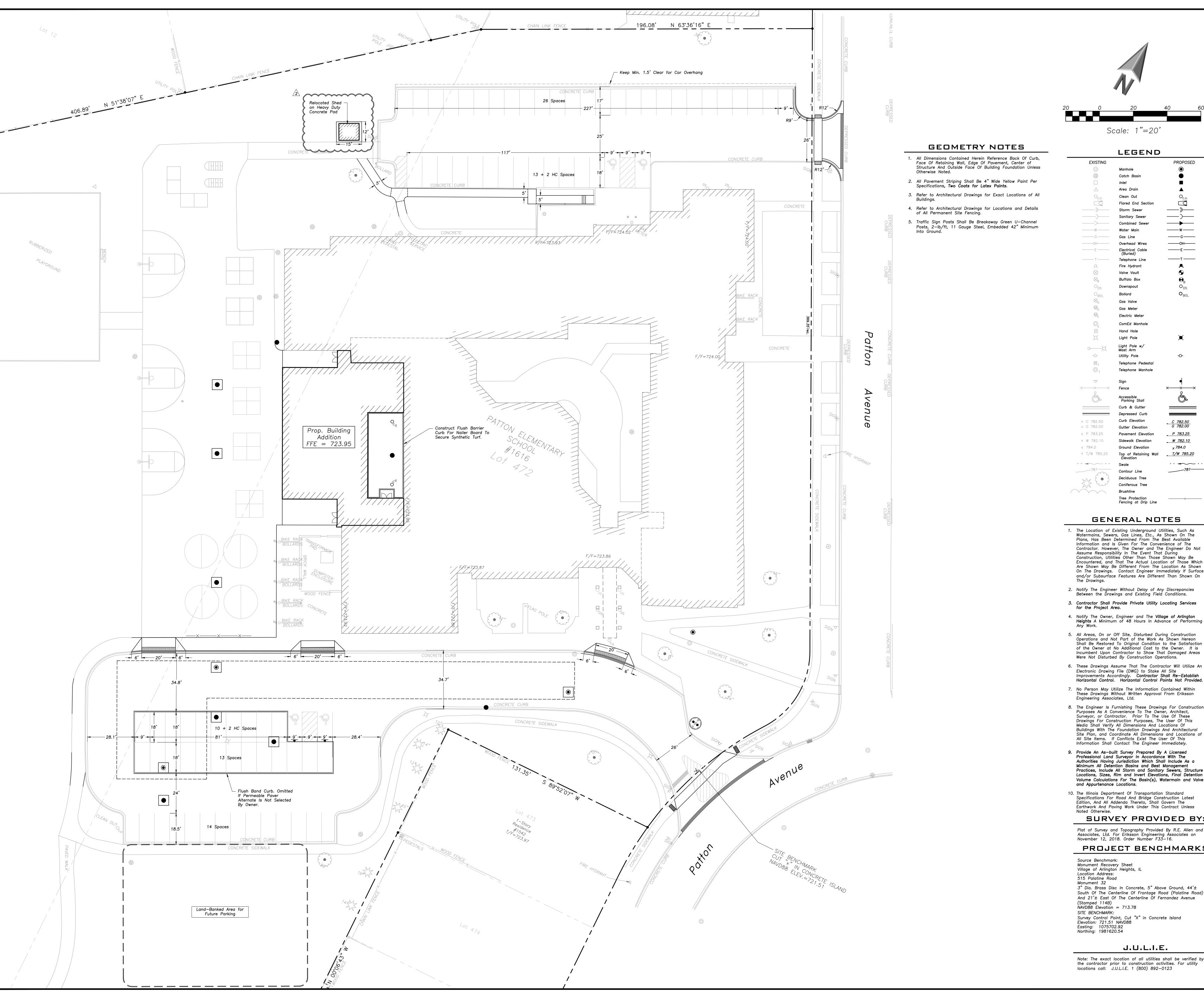


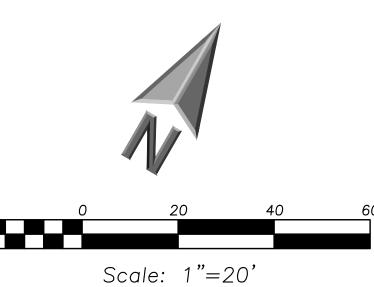
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No.	Date	Description
	12/06/22	ISSUE FOR PLAN COMMISSION
<u></u>	01/20/23	REVISED FOR PLAN COMMISSION
2	02/01/23	REVISED FOR PLAN COMMISSION

Approved By: Date: JC 02/01/23 LMR

SITE DEMOLITION PLAN





LEGEND

Catch Basin Clean Out ——w— ———G—— ——ОН—— Overhead Wires ——Е—— Telephone Line Fire Hydrant Valve Vault Buffalo Box Downspout Gas Meter Electric Meter ComEd Manhole Hand Hole Light Pole Light Pole w/ Mast Arm Utility Pole Telephone Pedestal Telephone Manhole Curb Elevation x C 782.50 x G 782.00

GENERAL NOTES

Fencing at Drip Line

Tree Protection

___T/W_785.20

____×___

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- 10. The Illinois Department Of Transportation Standard Specifications For Road And Bridge Construction Latest Edition, And All Addenda Thereto, Shall Govern The Earthwork And Paving Work Under This Contract Unless

SURVEY PROVIDED BY:

Plat of Survey and Topography Provided By R.E. Allen and Associates, Ltd. For Eriksson Engineering Associates on November 12, 2018. Order Number F33-16.

PROJECT BENCHMARKS

Source Benchmark: Monument Recovery Sheet Village of Arlington Heights, IL

3" Dia. Brass Disc In Concrete, 5" Above Ground, 44'± South Of The Centerline Of Frontage Road (Palatine Road) And 21'± East Of The Centerline Of Fernandez Avenue (Stamped 114B) NAVD88 Elevation = 713.78

Survey Control Point, Cut "X" in Concrete Island Elevation: 721.51 NAVD88 Easting: 1075702.92 Northing: 1981620.54

J.U.L.I.E.

Note: The exact location of all utilities shall be verified by the contractor prior to construction activities. For utility

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Professional Design Firm

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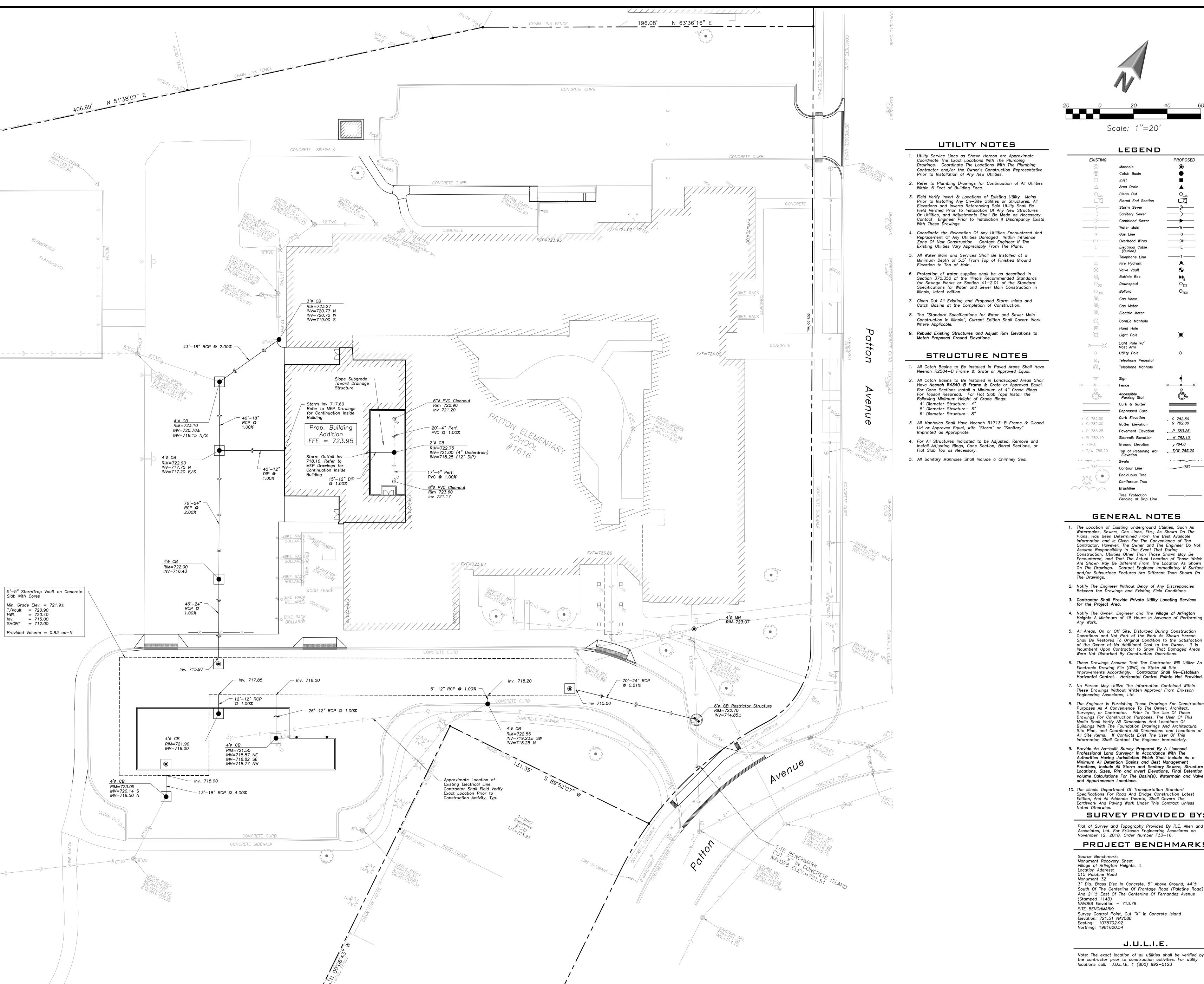
EXPIRES: 04/30/2023

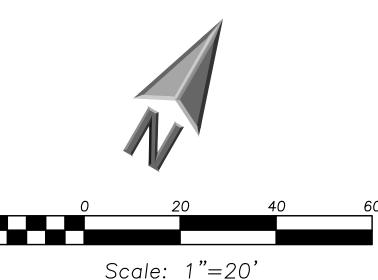
No. Date Description 12/06/22 ISSUE FOR PLAN COMMISSION 01/20/23 REVISED FOR PLAN COMMISSION $_2ackslash$ | 02/01/23 | REVISED FOR PLAN COMMISSION

Reserved for Seal:

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SITE GEOMETRY PLAN





LEGEND PROPOSED Catch Basin Inlet Area Drain Clean Out Flared End Section ——w— ——G—— ——ОН—— Overhead Wires ——E—— —т— Telephone Line Fire Hydrant

Valve Vault Buffalo Box Downspout Bollard Gas Meter Electric Meter ComEd Manhole Hand Hole

Light Pole Light Pole w/ Mast Arm Utility Pole Telephone Pedestal Telephone Manhole

Curb Elevation

Fencing at Drip Line

GENERAL NOTES

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- Notify The Engineer Without Delay of Any Discrepancies Between the Drawings and Existing Field Conditions.
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SURVEY PROVIDED BY:

Plat of Survey and Topography Provided By R.E. Allen and Associates, Ltd. For Eriksson Engineering Associates on November 12, 2018. Order Number F33-16.

PROJECT BENCHMARKS

Source Benchmark: Monument Recovery Sheet Village of Arlington Heights, IL 515 Palatine Road

3" Dia. Brass Disc In Concrete, 5" Above Ground, 44'± South Of The Centerline Of Frontage Road (Palatine Road) And 21'± East Of The Centerline Of Fernandez Avenue (Stamped 114B) NAVD88 Elevation = 713.78

Survey Control Point, Cut "X" in Concrete Island Elevation: 721.51 NAVD88

J.U.L.I.E.

Note: The exact location of all utilities shall be verified by the contractor prior to construction activities. For utility locations call: J.U.L.I.E. 1 (800) 892-0123

Reserved for Seal:

No. Date Description

LMR

12/06/22 ISSUE FOR PLAN COMMISSION

01/20/23 REVISED FOR PLAN COMMISSIO

02/01/23 REVISED FOR PLAN COMMISSION

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ASSOCIATES, LTD.

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EMAIL INFO@EEA-LTD.COM

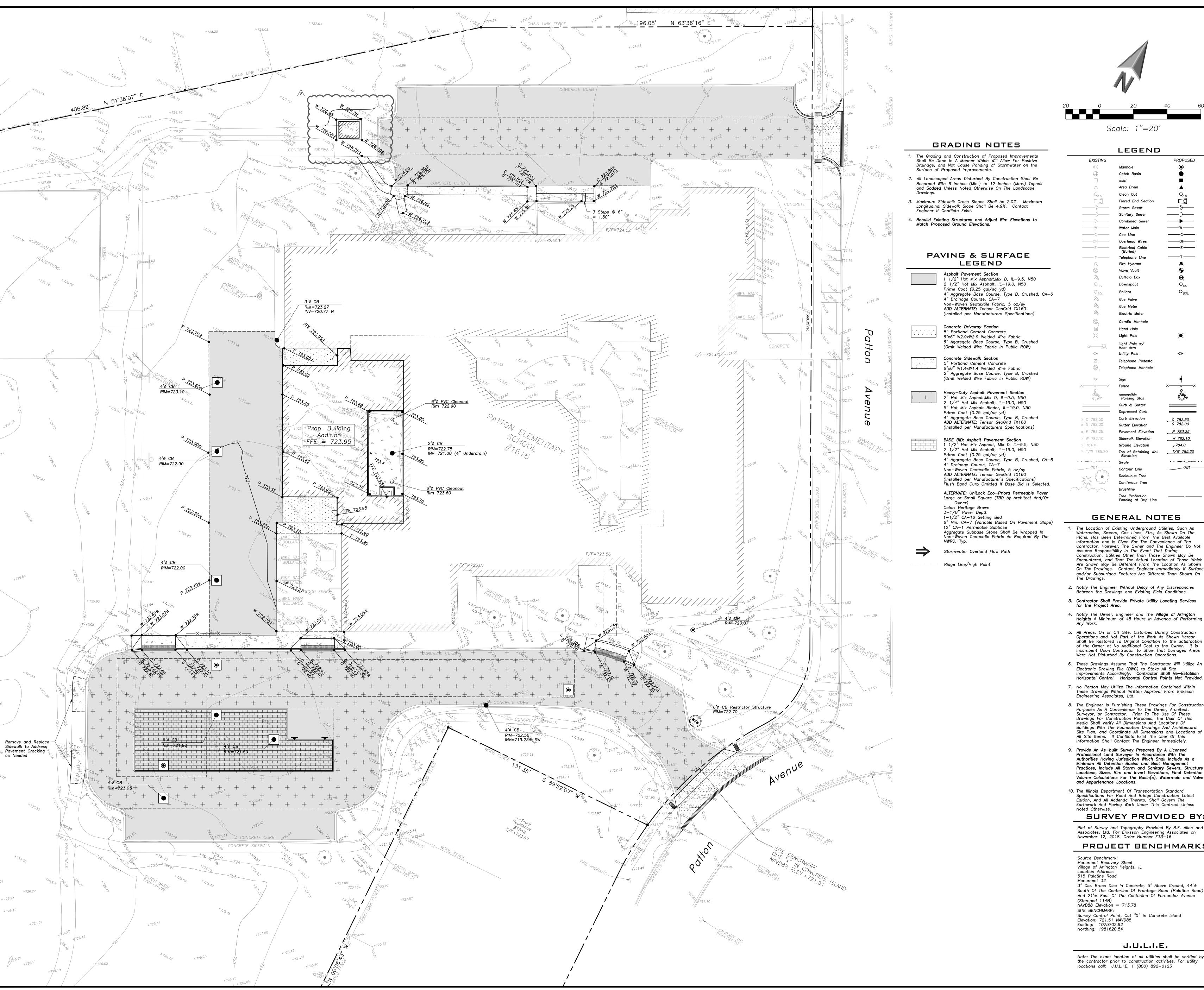
PROFESSIONAL DESIGN FIRM

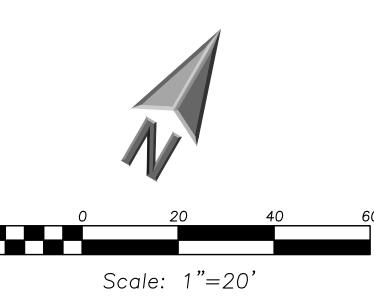
LICENSE No. 184-003220

EXPIRES: 04/30/2023

Approved By: Date: JC 02/01/23 Sheet Title: UTILITY

PLAN





LEGEND

——w— ——G——

——ОН——

——E——

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Catch Basin

Clean Out

Overhead Wires

Telephone Line

Fire Hydrant Valve Vault

Buffalo Box

Downspout

Gas Meter

Hand Hole

Light Pole

Light Pole w/ Mast Arm

Curb Elevation

Telephone Pedestal

Telephone Manhole

Utility Pole

Electric Meter ComEd Manhole

GENERAL NOTES

Fencing at Drip Line

. The Location of Existing Underground Utilities, Such As Watermains, Sewers, Gas Lines, Etc., As Shown On The Plans, Has Been Determined From The Best Available Information and Is Given For The Convenience of The Contractor. However, The Owner and The Engineer Do Not Assume Responsibility In The Event That During Construction, Utilities Other Than Those Shown May Be Encountered, and That The Actual Location of Those Which Are Shown May Be Different From The Location As Shown On The Drawings. Contact Engineer Immediately If Surface and/or Subsurface Features Are Different Than Shown On

- Notify The Engineer Without Delay of Any Discrepancies Between the Drawings and Existing Field Conditions.
- 3. Contractor Shall Provide Private Utility Locating Services for the Project Area.
- 4. Notify The Owner, Engineer and The Village of Arlington
 Heights A Minimum of 48 Hours In Advance of Performing
- 5. All Areas, On or Off Site, Disturbed During Construction Operations and Not Part of the Work As Shown Hereon Shall Be Restored To Original Condition to the Satisfaction of the Owner at No Additional Cost to the Owner. It is Incumbent Upon Contractor to Show That Damaged Areas Were Not Disturbed By Construction Operations.
- Electronic Drawing File (DWG) to Stake All Site Improvements Accordingly. Contractor Shall Re-Establish Horizontal Control. Horizontal Control Points Not Provided.
- 7. No Person May Utilize The Information Contained Within These Drawings Without Written Approval From Eriksson Engineering Associates, Ltd.
- 8. The Engineer Is Furnishing These Drawings For Construction Purposes As A Convenience To The Owner, Architect, Surveyor, or Contractor. Prior To The Use Of These Drawings For Construction Purposes, The User Of This Media Shall Verify All Dimensions And Locations Of Buildings With The Foundation Drawings And Architectural Site Plan, and Coordinate All Dimensions and Locations of All Site Items. If Conflicts Exist The User Of This Information Shall Contact The Engineer Immediately.
- 9. Provide An As-built Survey Prepared By A Licensed Professional Land Surveyor In Accordance With The Authorities Having Jurisdiction Which Shall Include As a Minimum All Detention Basins and Best Management Practices, Include All Storm and Sanitary Sewers, Structure Locations, Sizes, Rim and Invert Elevations, Final Detention Volume Calculations For The Basin(s), Watermain and Valve and Appurtenance Locations.
- 10. The Illinois Department Of Transportation Standard Specifications For Road And Bridge Construction Latest Edition, And All Addenda Thereto, Shall Govern The Earthwork And Paving Work Under This Contract Unless

SURVEY PROVIDED BY:

Plat of Survey and Topography Provided By R.E. Allen and Associates, Ltd. For Eriksson Engineering Associates on November 12, 2018. Order Number F33-16.

PROJECT BENCHMARKS

Source Benchmark: Monument Recovery Sheet Village of Arlington Heights, IL

3" Dia. Brass Disc In Concrete, 5" Above Ground, 44'± South Of The Centerline Of Frontage Road (Palatine Road) And 21'± East Of The Centerline Of Fernandez Avenue (Stamped 114B) NAVD88 Elevation = 713.78 SITE BENCHMARK:

J.U.L.I.E.

Note: The exact location of all utilities shall be verified by the contractor prior to construction activities. For utility locations call: J.U.L.I.E. 1 (800) 892-0123

ERIKSSON

ENGINEERING

ASSOCIATES, LTD.

45 COMMERCE DRIVE, SUITE A

GRAYSLAKE, ILLINOIS 60030 PHONE (847) 223-4804 _{FAX} (847) 223-4864

EMAIL INFO@EEA-LTD.COM

Professional Design Firm

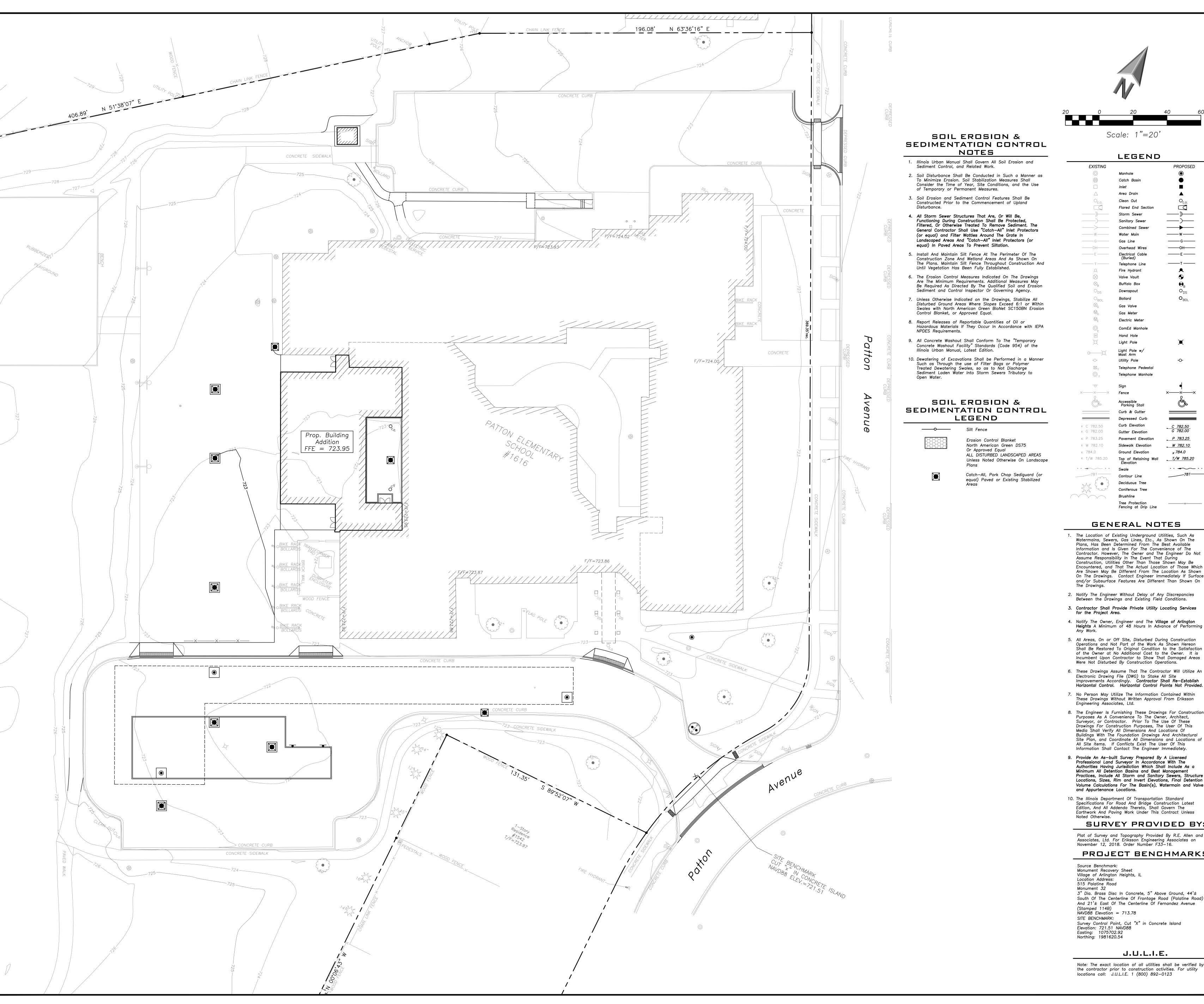
LICENSE No. 184-003220 EXPIRES: 04/30/2023

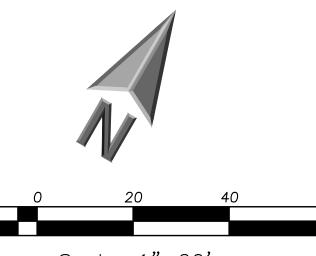
No. Date Description 12/06/22 ISSUE FOR PLAN COMMISSION 01/20/23 REVISED FOR PLAN COMMISSIO 02/01/23 REVISED FOR PLAN COMMISSION

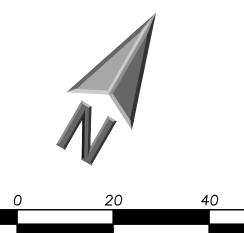
Reserved for Seal:

Approved By: Date: JC 02/01/23 LMR

GRADING AND PAVING PLAN







Scale: 1"=20'

LEGEND PROPOSED Manhole Catch Basin Inlet Area Drain Clean Out ——w— ——G—— ——ОН—— Overhead Wires ——E—— —т— Telephone Line Fire Hydrant Valve Vault Buffalo Box Downspout Gas Meter Electric Meter ComEd Manhole Hand Hole Light Pole

Telephone Pedestal Telephone Manhole Curb Elevation

___T/W_785.20

GENERAL NOTES

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____×___

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Survey Control Point, Cut "X" in Concrete Island Elevation: 721.51 NAVD88 Easting: 1075702.92 Northing: 1981620.54

J.U.L.I.E.

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LICENSE No. 184-003220

EXPIRES: 04/30/2023

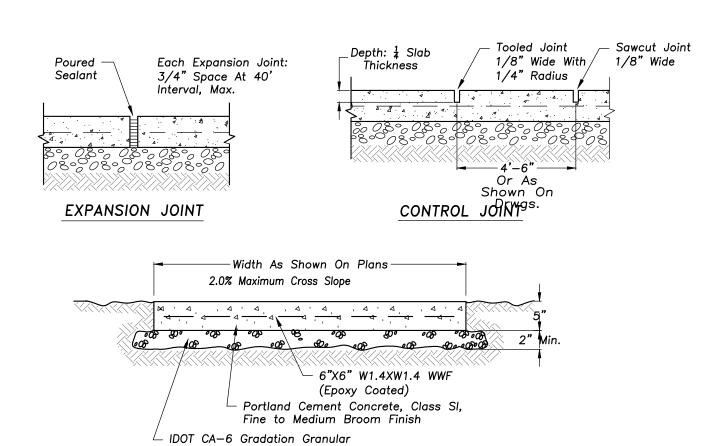
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Reserved for Seal:

Design By: Approved By: Date: JC 02/01/23 LMR

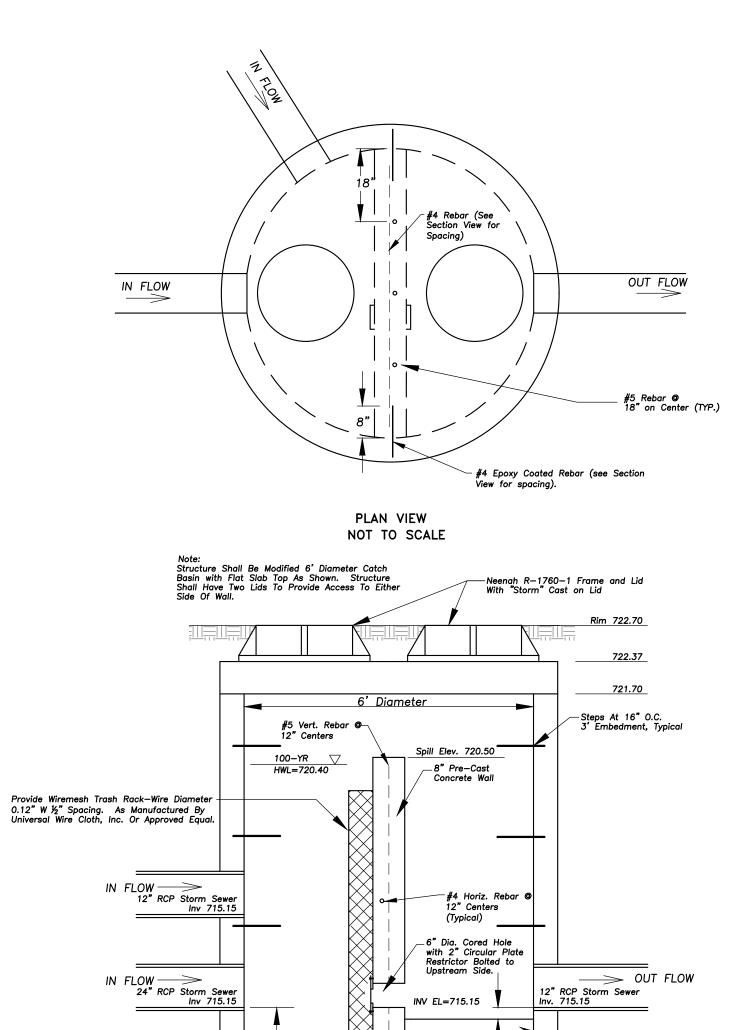
SITE EROSION AND SEDIMENT CONTROL PLAN

INLET PROTECTORS — SEDIMENT BAG



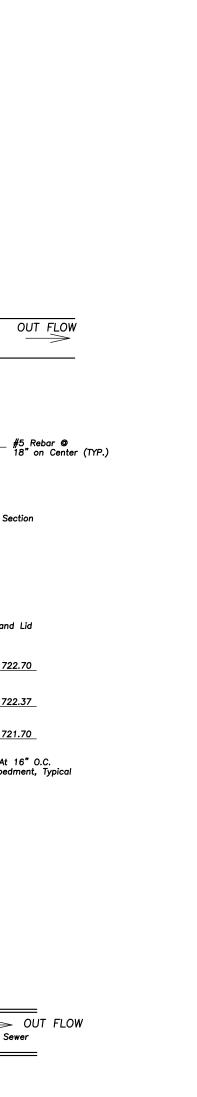
PORTLAND CEMENT CONC. SIDEWALK

Sub-base, Type B

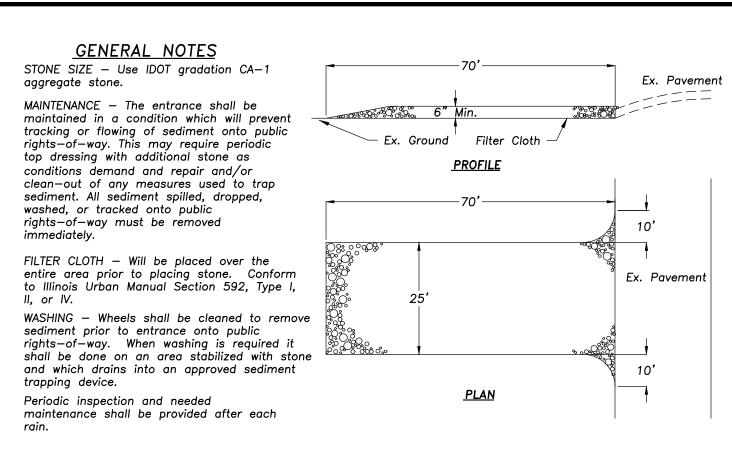


#5 Epoxy Coated Rebar at 12" Centers.—

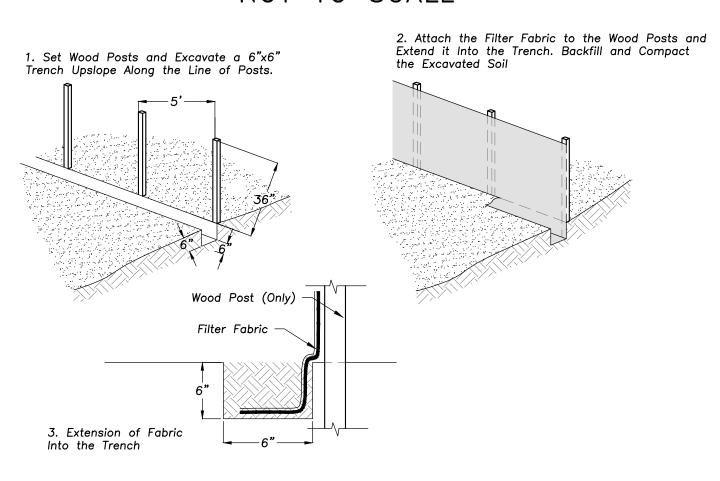
RESTRICTOR STRUCTURE



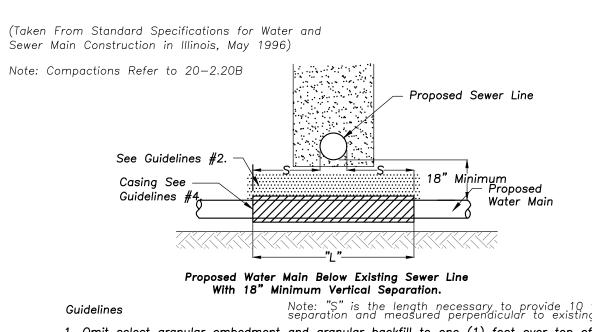
— Fill With Pea Gravel



STABILIZED CONSTRUCTION ENTRANCE NOT TO SCALE

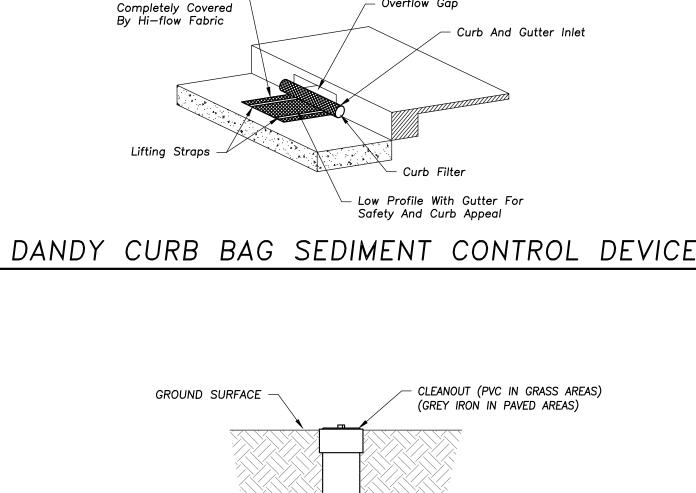


SILT FENCE CONSTRUCTION (AASHTO 288-00)



1. Omit select granular embedment and granular backfill to one (1) foot over top of watermain and use select excavated material (Class IV) and compact the length of "L". 2. If select granular backfill exists, remove within width of existing sewer line trench and replace with select excavated material (Class IV) and compact. 3. Provide adequate support for existing sewer line to prevent damage due to settlement.

4. Use "L" feet of water main material for casing of proposed water main and seal ends



Hi-flow Dandy Bag (safety Orange)

Mechanical Properties Test Method

Overflow Gap

DANDY CURB BAG

*note: All Dandy Bags Ò Can Be Ordered With Our Optional Oil Absorbent Pillows

Note: The Dandy Bag Will Be

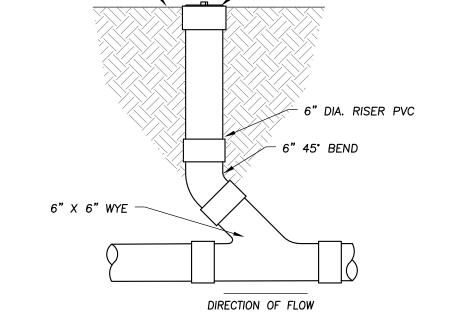
Manufactureed in The Usa From A

Storm Sewer Grate -

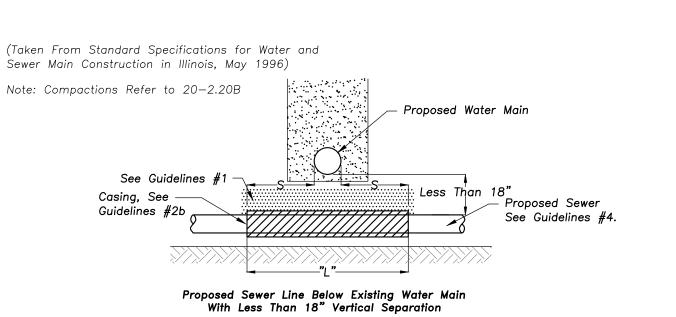
Woven Monofilament Fabric That

Meets Or Exceeds The Following

Specifications:

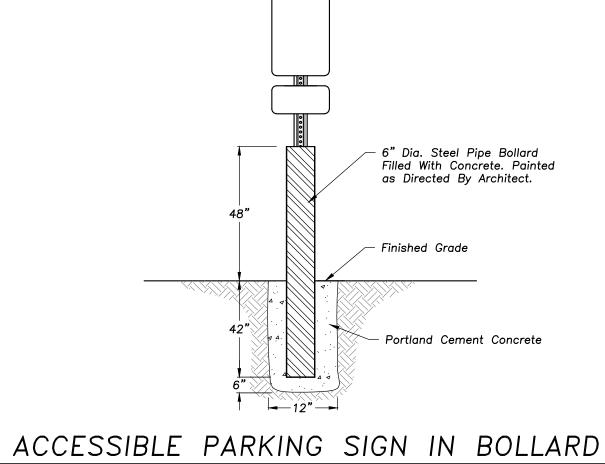






Note: "S" is the length necessary to provide 10 feet of separation and measured perpendicular to existing sewer line. 1. Omit select granular embedment and granular backfill to one (1) foot over top of watermain and use select excavated material (Class IV) and compact for "S" feet on each 2a. Construct "L" feet of proposed sewer or water main material and pressure test, or; 2b. Use "L" feet of water main material for casing of proposed sewer and seal ends of 3. Provide adequate support for existing water main to prevent damage due to settlement

WATER AND SEWER SEPARATION REQUIREMENTS WATER AND SEWER SEPARATION REQUIREMENTS



Precast Conc. Adjusting Rings. (3" Min.

Precast Reinf. Conc. Sections (ASTM C-478)

- See Plans For Pipe Invert, Size, Slope and

Material As Well As Any Trap Requirements.

Prefabricated Conc. Slab On Sand Cushion

CLASS SI CONCRETE

#4 REBARS, EPOXY COATED

AGGREGATE BASE (2" MIN.)

COMPACTED CLAY SUB-BASE

Install Resilient Connectors (ASTM C-923)

Backfill: Same Material & Procedure As Adjacent Piping.

48" in DIA. (Up TO 18" DIA. Pipe), T=4"

60" in DIA. (21" To 48" DIA. Pipe), T=5"

Except for Flat Slab Top, 12" Max.)

Varies 2'-6" To 4'-3"

May Be Replaced by

Optional Precast Reinf.

Conc. Flat Slab Top.

Rubber Gasket (0-Ring)

72" in DIA., T=5"

CATCH BASIN

1. A 1" EXPANSION JOINT SHALL BE INSTALLED AT ALL POINTS OF CURVATURE FOR

SHORT RADIUS (UNDER 25 FT.) CURVES. MAXIMUM EXPANSION JOINT SPACING IS 50'.

EXPANSION JOINTS SHALL BE CONSTRUCTED WITH 1" THICK PREFORMED EXPANSION JOINT FILLER CONFORMING TO THE CURB AND GUTTER CROSS SECTION AND SHALL BE PROVIDED WITH ONE 1-1/4" DIAMETER, 18" LONG, COATED SMOOTH DOWEL BAR. THE

DOWEL BAR SHALL BE FITTED WITH A CAP WITH A PINCHED STOP WHICH PROVIDES A

2. MAXIMUM CONTRACTION/CONTROL JOINT SPACING SHALL BE (20') TWENTY FEET.

FLUSH CURB

FLOW

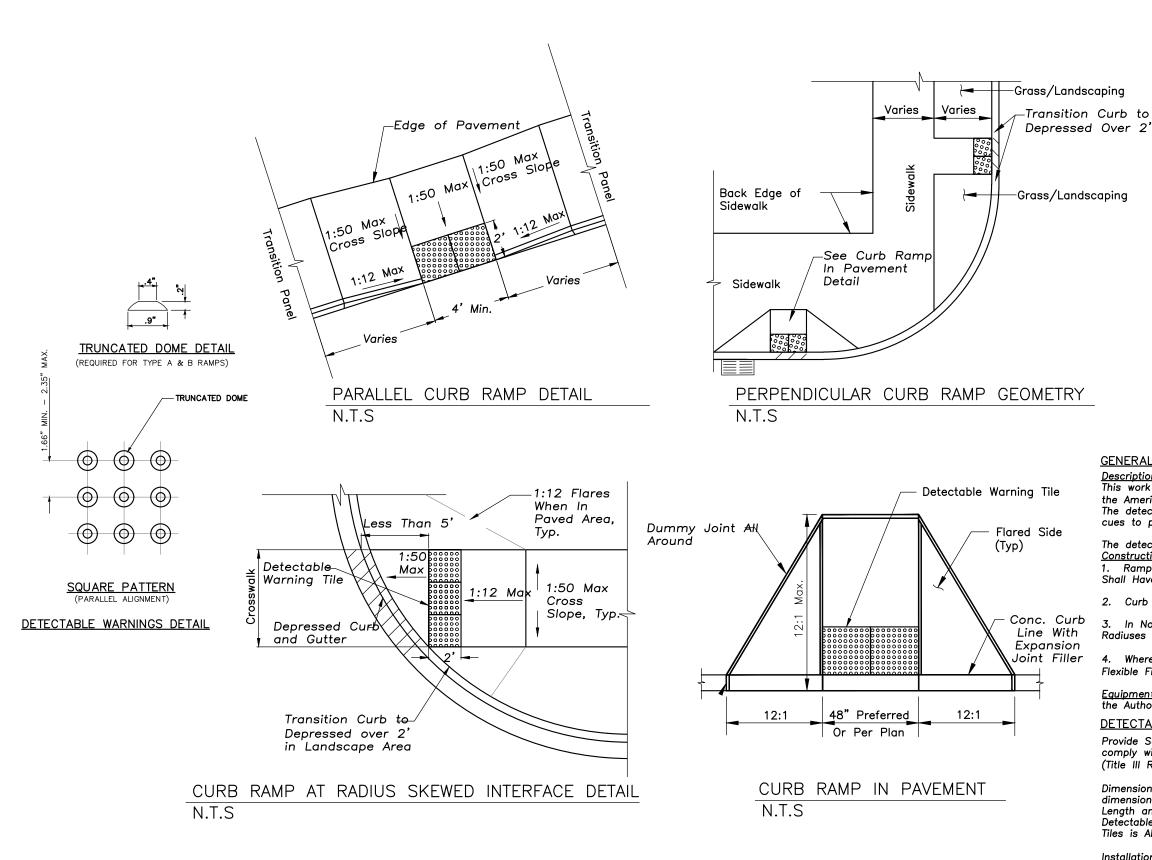
Standard

MINIMUM OF 1" OF EXPANSION.

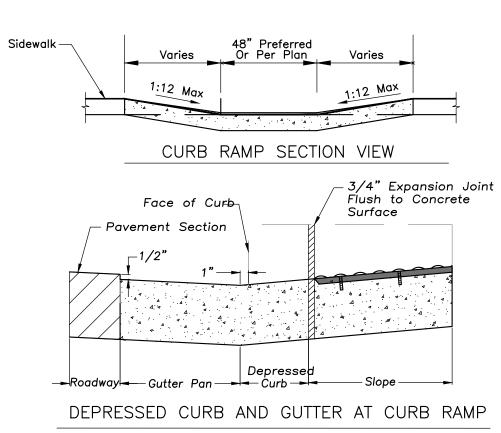
NOTES:

On Plans

) FLOW



ACCESSIBLE RAMPS FOR SIDEWALKS



GENERAL NOTES <u>Description:</u>
This work shall consist of constructing sidewalk curb ramps with detectable warnings in compliance with the Americans with Disabilities Act, Accessibility Guidelines (ADAAG). The detectable warnings shall consist of an area of truncated domes that provide both visual and tactile cues to pedestrians who are about to enter into traffic. The detectable warnings shall present a contrast in color from the adjacent sidewalk. Construction Requirements:

Ramps Shall Be Located As Shown On Plans In Alignment With Normal Sidewalk And/or Crosswalk And Shall Have Sufficient Curb Length At Corner Radius To Prevent Vehicular Encroachment. 2. Curb Ramps At Marked Crossings Shall Be Wholly Contained Within The Markings Excluding Flared Sides. 3. In No Case Shall Expansion Joints That Are Constructed In Curbs And Gutters At Or Near Corner

Joint Filler 4. Where Preformed Joint Filler (p.j.f) Is Installed Against A Curved Surface, The Contractor Shall Use A Flexible Filler In Accordance With The Illinois Department Of Transportation (IDOT) Standard Specifications. <u>Equipment:</u> Equipment for the detectable warning area of the curb ramps shall meet the requirements of the Authortities haveing Jurisdiction. DETECTABLE WARNING SURFACE TILES

Provide Surface Applied Detectable/Tactile Warning Surface Tiles which comply with the detectable warnings on walking surfaces section of the Americans with Disabilities Act (Title III Regulations, 28 CFR Part 36 ADA STANDARDS FOR ACCESSIBLE DESIGN, Appendix A, Section 4.29.2 Dimensions: Cast In Place Detectable/Tactile Warning Surface Tiles shall be held within the following Length and Width in One of the Following as Necessary for the Dimensions of the Surface In Which the Detectable Warning is Proposed: 12x12 24x24 24x36 24x48 24x60 36x48 36x60 nominal. No Cutting of Tiles is Allowed.

Installation of Detectable/Tactile Warning Surface Tiles Per Manufacturer's Instructions. Verify With the Local Authorities Having Jurisdiction that Detectable/Tactile Warning Surface Tiles are an Acceptable Method of Providing for the Detectable Warning Surface. Verify With the Local Authorities Having Jurisdiction that the Manufacturer's Products are Acceptable for the

Steps at 16" O.C. Only Where Specifically Shown on Plans. See Manhole Step Detail. ERIKSSON

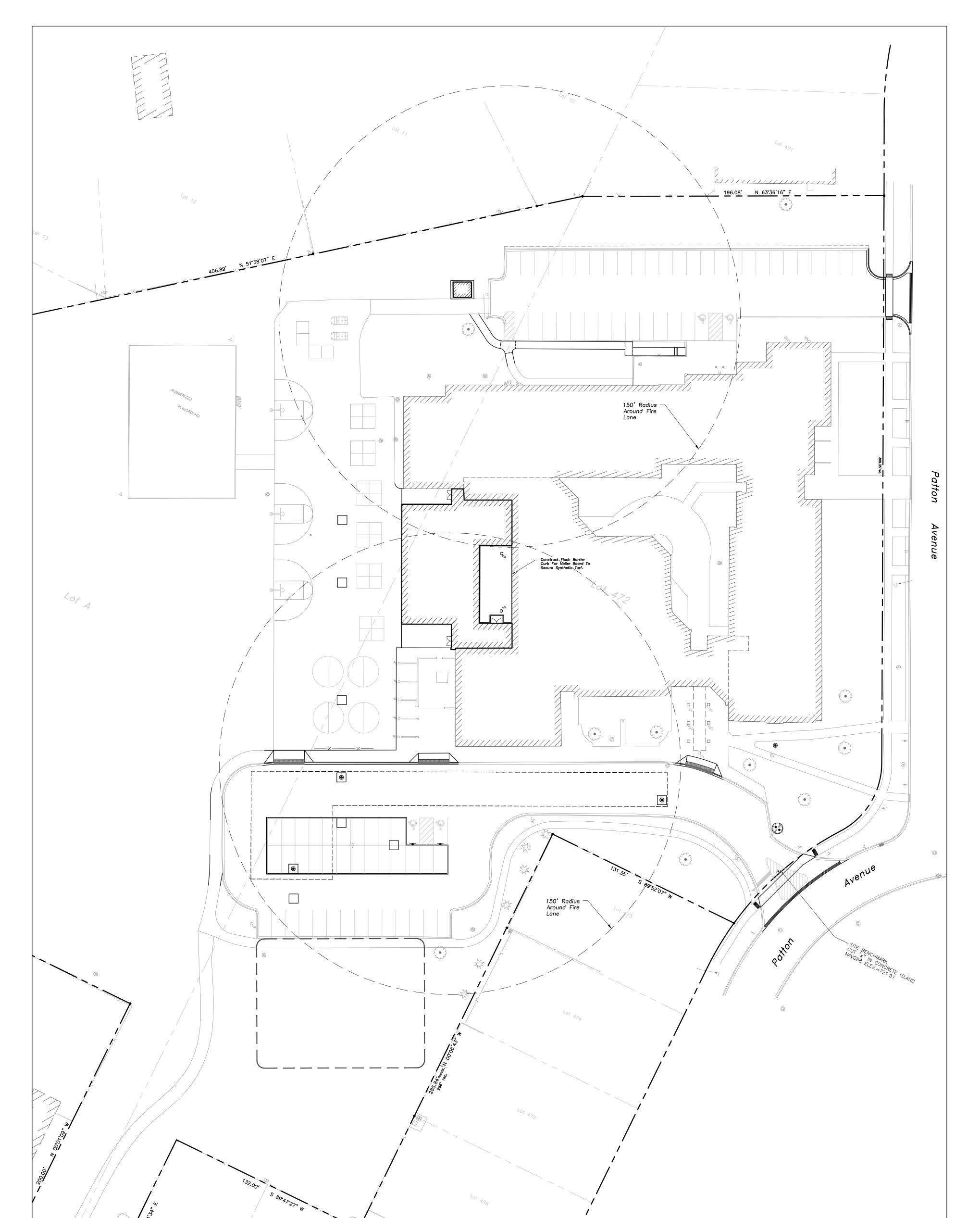
ENGINEERING ASSOCIATES, LTD. 45 COMMERCE DRIVE, SUITE A GRAYSLAKE, ILLINOIS 60030 PHONE (847) 223-4804 _{FAX} (847) 223-4864 EMAIL INFO@EEA-LTD.COM PROFESSIONAL DESIGN FIRM LICENSE No. 184-003220 Expires: 04/30/2023

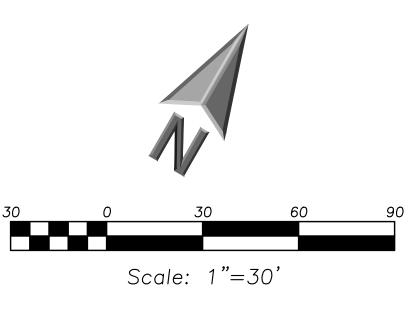
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1	01/20/23	REVISED FOR PLAN COMMISSION	
2	02/01/23	REVISED FOR PLAN COMMISSION	

FRIKSSON ENGINEERING ASSOCIATES LTD. 2022 Approved By: Date: LMR JC 02/01/2

Sheet Title: SITE WORK **DETAILS**





DING ADDITION AND RENOVATIONS

1616 N. PATTON AVENUE

ENGINEERING

ASSOCIATES, LTD.

145 COMMERCE DRIVE, SUITE A GRAYSLAKE, ILLINOIS 60030 PHONE (847) 223-4804 FAX (847) 223-4864 EMAIL INFO@EEA-LTD.COM

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D. Date Description

12/06/22 ISSUE FOR PLAN COMMISSION

01/20/23 REVISED FOR PLAN COMMISSION

02/01/23 REVISED FOR PLAN COMMISSION

RIKSSON ENGINEERING ASSOCIATES, LTD., 2022

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TO BRISSON ENGINEERING ASSOCIATES, LTD.

TO BRISSON ENGINEERING ASSOCIATES, LTD.

TO DATE:

UNDERSTANDANCE

DATE:

02/01/23

FIRE TRUCK EXHIBIT

CX301