

**VILLAGE OF VERNON HILLS
ORDINANCE 2021-083**

AN ORDINANCE AMENDING ORDINANCE 2021-083 AS AMENDED, TO AMEND THE SPECIAL USE PERMIT FOR A PLANNED UNIT DEVELOPMENT AND CERTAIN OTHER APPROVALS FOR PROPERTY COMMONLY KNOWN AS HAWTHORN ELEMENTARY SCHOOL-SOUTH, IN THE VILLAGE OF VERNON HILLS, LAKE COUNTY

WHEREAS, representatives of Hawthorn Elementary School South located at 430 Aspen Drive and legally described in Exhibit A, has petitioned the Village of Vernon Hills for approval of the following:

1. Approval to amend Ordinance 2003-040, as amended by Ordinance 2007-024, authorizing revisions to a Special Use Permit for a Planned Unit Development allowing two additions to the existing building commonly known as "Hawthorn Elementary School South"; and
2. Preliminary and final site plan approvals; and
3. Preliminary and final landscape approval; and
4. Preliminary and final architectural plan approval.

WHEREAS, upon due notice and after a public hearing held on April 14, 2021 by the Planning and Zoning Commission of the Village of Vernon Hills, and pursuant to the Vernon Hills Zoning Ordinance of 1982, as amended, said Planning and Zoning Commission has filed its report and recommendation concerning said petition referenced herein; and

WHEREAS, based upon the evidence adduced at said hearing and in their application, the petitioner has entered into the record evidence and findings of fact that address the standards in Section 18.3 of the Zoning Ordinance; and

WHEREAS, the Village Board, having considered the Planning and Zoning Commissions report and recommendation at its Committee of the Whole meeting on May 4, 2021, found that sufficient facts were presented which, in its judgment, would justify approving and amendment to Ordinance 2003-040, as amended by Ordinance 2007-024, authorizing an amendment to a Special use Permit for a Planned Unit Development; granting preliminary and final site plan approval; granting preliminary and final landscape approval; and granting preliminary and final architectural approval.

NOW, THEREFORE, BE IT ORDAINED BY THE PRESIDENT AND BOARD OF TRUSTEES OF THE VILLAGE OF VERNON HILLS, COUNTY OF LAKE AND STATE OF ILLINOIS:

SECTION I. Pursuant to the Vernon Hills Zoning Ordinance of 1982, as amended, approval of an amendment to Ordinance 2003-040, as amended by Ordinance 2007-024 authorizing approval of an amendment to a Special use Permit for a Planned Unit

Development allowing two additions to the existing building is hereby granted, subject to the Terms and Conditions of Approval, as set forth in Exhibit B.

SECTION II. Pursuant to the Vernon Hills Zoning Ordinance of 1982, as amended, preliminary and final site plan approvals is hereby granted, subject to the Terms and Conditions of Approval, as set forth in Exhibit B.

SECTION III. Pursuant to the Vernon Hills Zoning Ordinance of 1982, as amended, preliminary and final landscape approvals is hereby granted, subject to the Terms and Conditions of Approval, as set forth in Exhibit B.

SECTION IV. Pursuant to the Vernon Hills Zoning Ordinance of 1982, as amended, preliminary and final architectural plan approval is hereby granted, subject to the Terms and Conditions of Approval, as set forth in Exhibit B

SECTION V. Pursuant to the Vernon Hills Zoning Ordinance of 1982, as amended, and the recommendations of the Planning and Zoning Commission, the Terms and Conditions of Approval as set forth in Exhibit B are hereby approved and are made a part of the approvals as listed in the Sections above.

SECTION VI. SEVERABILITY. In the event that any section, clause, provision, or part of this ordinance shall be found and determined to be invalid by a court of competent jurisdiction, all valid parts that are severable from the invalid parts shall remain in full force and effect. If any part of this ordinance is found to be invalid in any one or more of its several applications, all valid applications that are severable from the invalid applications shall remain in effect.

SECTION VII. REPEAL AND SAVINGS CLAUSE. All ordinances or parts of ordinances in conflict herewith are hereby repealed; provided, however, that nothing herein contained shall affect any rights, actions or causes of action which shall have accrued to the Village of Vernon Hills prior to the effective date of this ordinance.

SECTION VIII. SUCCESSORS AND ASSIGNS. All of the provisions of this Ordinance and the attachments hereto are binding on all successors and assigns of the petitioner and property owner.

SECTION IX EFFECTIVE DATE. This ordinance shall be in full force and effect from and after its passage, approval and publication as provided by law.

SECTION X. ORDINANCE NUMBER. This ordinance shall be known as Ordinance Number 2021-083.

[Signature page follows]

Adopted by roll call vote as follows:

AYES: 7 – Schenk, Marquardt, Forster, Koch, Oppenheim, Takaoka, Byrne

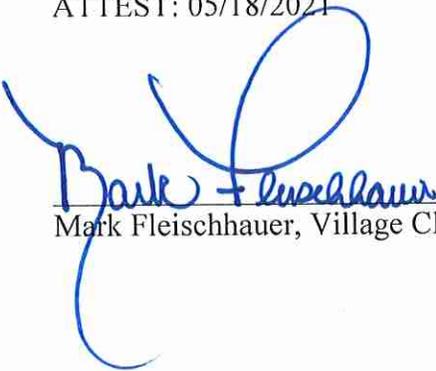
NAYS: 0 – None

ABSENT AND NOT VOTING: 0 – None



Roger L. Byrne, Village President

PASSED: 05/18/2021
APPROVED: 05/18/2021
ATTEST: 05/18/2021



Mark Fleischhauer, Village Clerk



Exhibit A
Legal Description

HAWTHORN SCHOOL DISTRICT – SOUTH CAMPUS PROPERTY

THAT PART OF THE NORTHEAST QUARTER AND THE NORTHWEST QUARTER OF SECTION 5, TOWNSHIP 43 NORTH, RANGE 11, EAST OF THE THIRD PRINCIPAL MERIDIAN, LYING EAST OF THE EASTERLY RIGHT OF WAY LINE OF THE MILWAUKEE, ST. PAUL AND SAULT SAINT MARIE RAILROAD (SOO LINE) AND LYING SOUTH OF THE SOUTH LINE OF THE NORTH 815.00 FEET OF THE AFORESAID NORTHEAST QUARTER AND NORTHWEST QUARTER OF SECTION 5 AND LYING WEST OF THE FOLLOWING DESCRIBED LINE: BEGINNING AT A POINT ON THE NORTH LINE OF THE AFORESAID NORTHEAST QUARTER OF SECTION 5 (BEING ALSO THE SOUTH LINE OF THE SOUTHEAST QUARTER OF SECTION 32, TOWNSHIP 44 NORTH, RANGE 11, EAST OF THE THIRD PRINCIPAL MERIDIAN) SAID POINT OF BEGINNING BEING 40.0 FEET WEST OF THE SOUTHERLY EXTENSION OF THE EAST LINE OF VERNON LANE (ASPEN DRIVE) AS DEDICATED BY NEW CENTURY TOWN UNIT ONE (BEING A SUBDIVISION OF PARTS OF SECTION 32 AND 33, TOWNSHIP 44 NORTH, RANGE 11, EAST OF THE THIRD PRINCIPAL MERIDIAN); THENCE SOUTH 01 DEGREES 09 MINUTES 10 SECONDS EAST, ON A LINE PARALLEL WITH THE EAST LINE OF THE AFORESAID NORTHEAST QUARTER OF SECTION 5, A DISTANCE OF 816.82 FEET, TO A POINT OF CURVE; THENCE SOUTHWESTERLY ON A CURVE, CONVEX TO THE SOUTHEAST, HAVING A RADIUS OF 265.00 FEET, A DISTANCE OF 213.74 FEET, MORE OR LESS, TO A POINT OF TANGENCY; THENCE SOUTH 45 DEGREES 03 MINUTES 33 SECONDS WEST A DISTANCE OF 510.54 FEET, MORE OR LESS, TO A POINT OF CURVE; THENCE SOUTHERLY ON A CURVE, CONVEX TO THE WEST, HAVING A RADIUS OF 440.00 FEET, A DISTANCE OF 522.21 FEET, MORE OR LESS, TO A POINT OF TANGENCY; THENCE SOUTH 22 DEGREES 56 MINUTES 30 SECONDS EAST, ON A LINE 710.00 FEET, MORE OR LESS, NORTHEAST OF AND PARALLEL WITH THE AFORESAID EASTERLY RIGHT OF WAY LINE OF THE SOO LINE RAILROAD, A DISTANCE OF 57.32 FEET, MORE OR LESS, TO A POINT OF CURVE; THENCE SOUTHERLY ON A CURVE, CONVEX TO THE WEST, HAVING A RADIUS OF 3167.34 FEET, A DISTANCE OF 475.43 FEET, MORE OR LESS, TO A POINT OF REVERSE CURVE; THENCE SOUTHERLY ON A CURVE, CONVEX TO THE EAST, HAVING A RADIUS OF 390.00 FEET, A DISTANCE OF 204.20 FEET, MORE OR LESS, TO A POINT OF TANGENCY; THENCE SOUTH 01 DEGREES 32 MINUTES 31 SECONDS EAST, ON THE NORTHERLY EXTENSION OF THE CENTER LINE OF ASPEN DRIVE (AS DEDICATED BY PLYMOUTH FARMS PHASE FOUR, BEING A SUBDIVISION OF PART OF THE WEST HALF OF THE SOUTHEAST QUARTER OF SECTION 5, AND PART OF THE NORTHEAST QUARTER OF SECTION 8, BOTH IN TOWNSHIP 43 NORTH, RANGE 11, EAST OF THE THIRD PRINCIPAL MERIDIAN), A DISTANCE OF 15.17 FEET TO THE SOUTH LINE OF THE AFORESAID NORTHEAST QUARTER OF SECTION 5, ALL IN LAKE COUNTY, ILLINOIS.

Exhibit B

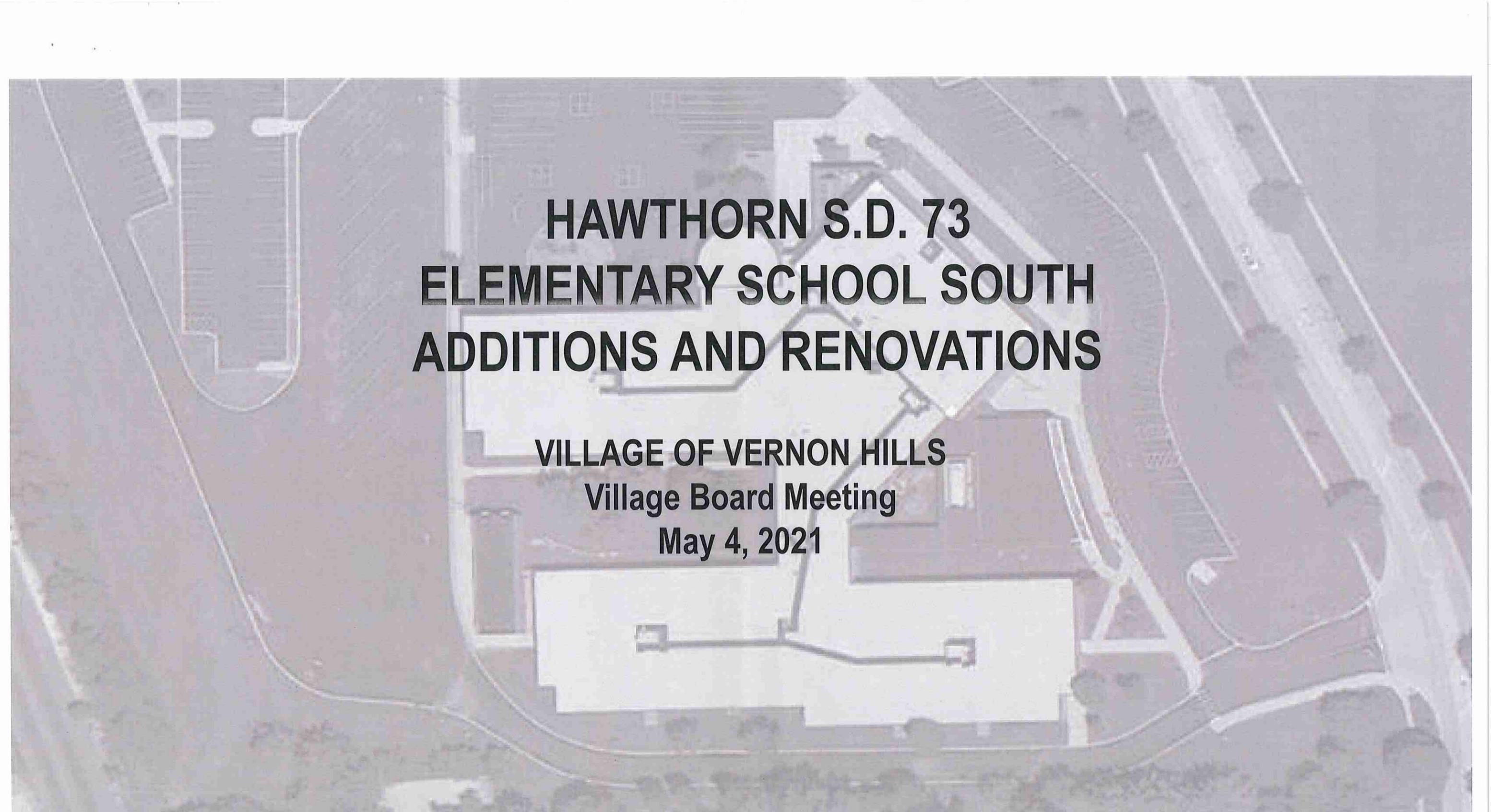
**DEVELOPMENT PERMIT
For Hawthorn Elementary School - South
430 Aspen Drive**

General Compliance with the following plans:

1. General compliance with the architectural plans and color renderings, consisting of twelve (12) pages, prepared by Legat Architects, dated May 4, 2021; and
2. General compliance with the civil engineering plans, consisting of fifteen (15) pages, prepared by Gewalt Hamilton, dated April 2, 2021; and
3. General Compliance with the Landscape Plan, consisting of one (1) page, prepared by Legat Architects, dated May 1, 2020.

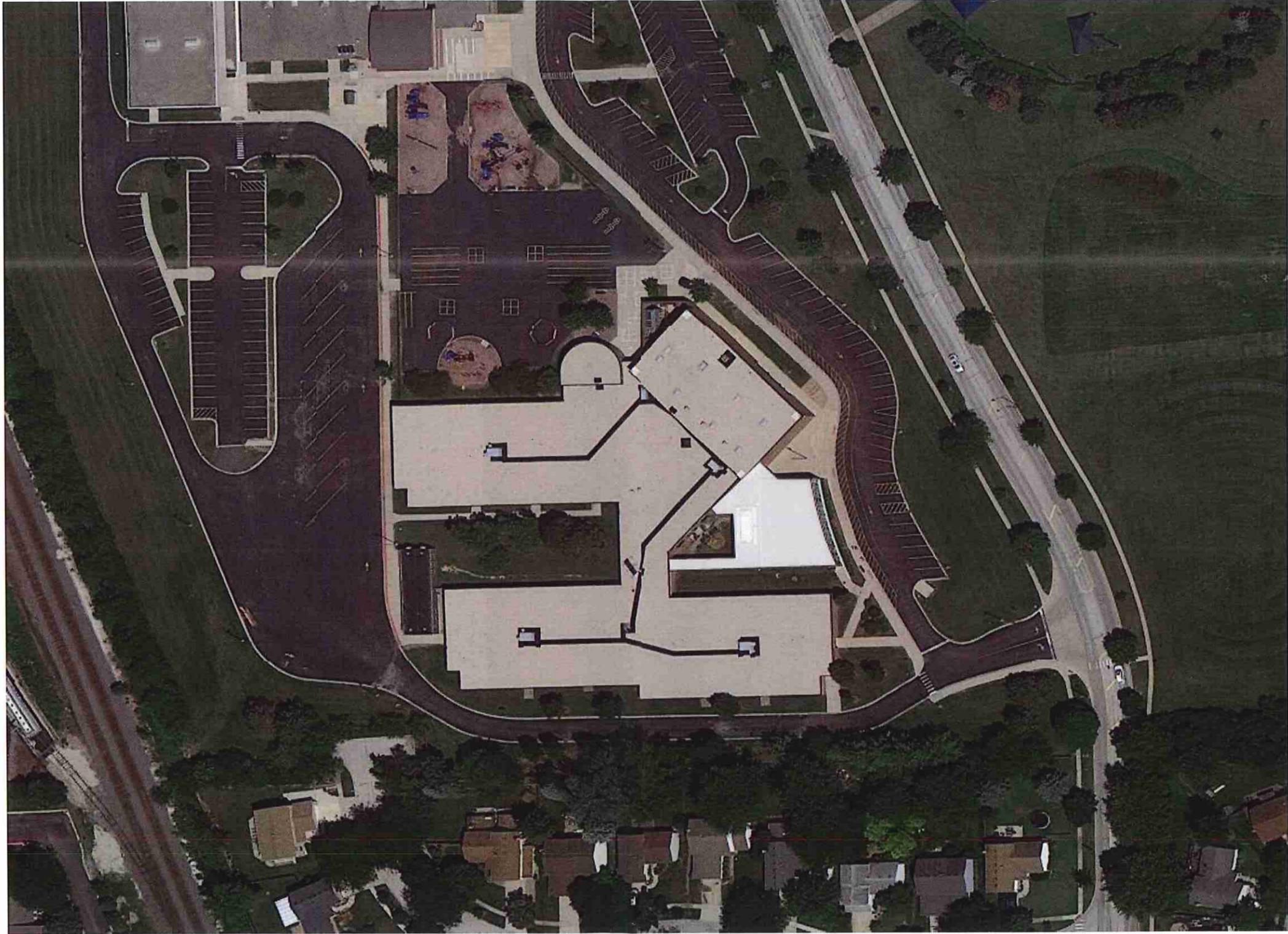
Terms and Conditions of Approval:

1. Review and approval of landscaping plans by the Village Landscape Technician shall be required prior to issuance of a full building permit for the project. The School District shall work with the Village Landscape Technician in finding additional landscape options in front of the building; and
2. Final engineering is subject to review and approval by the Village Engineer prior to issuance of building permit; and
3. The Director of Community Development shall review and approve the exterior lighting on the building prior to issuing any building or site development permit; and
4. The petitioner is required to work with staff to assure adequate screening is provided for roof top equipment; and
5. Compliance with all ordinances and standards of the Village.



**HAWTHORN S.D. 73
ELEMENTARY SCHOOL SOUTH
ADDITIONS AND RENOVATIONS**

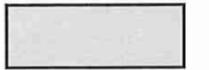
**VILLAGE OF VERNON HILLS
Village Board Meeting
May 4, 2021**



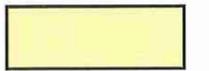


LEGEND

EXISTING BUILDING

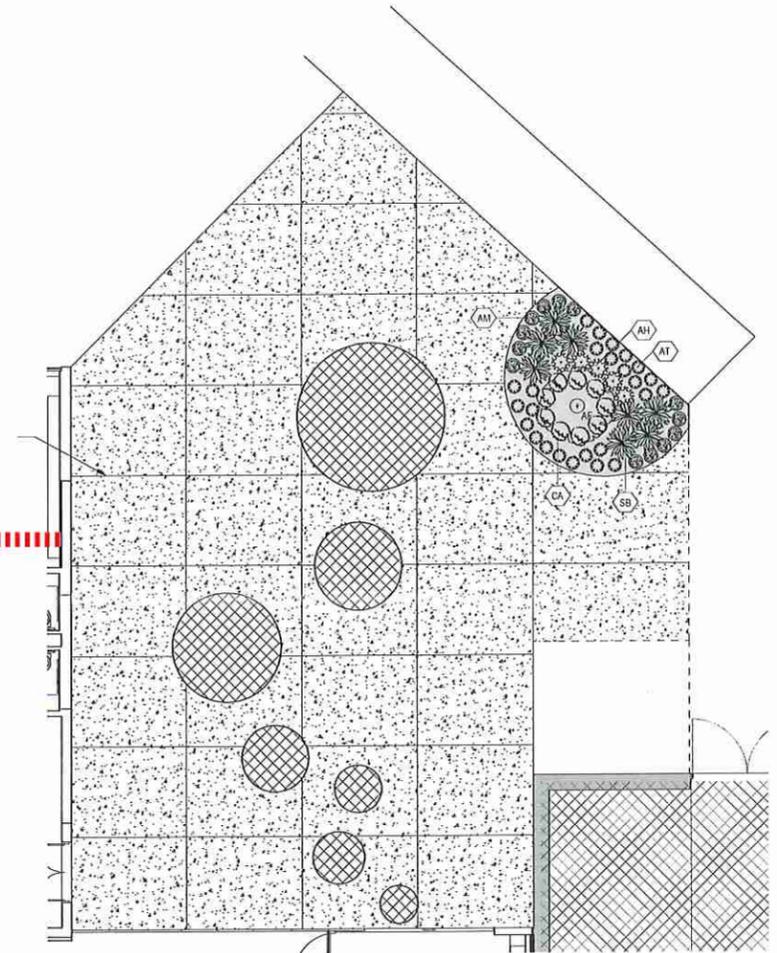
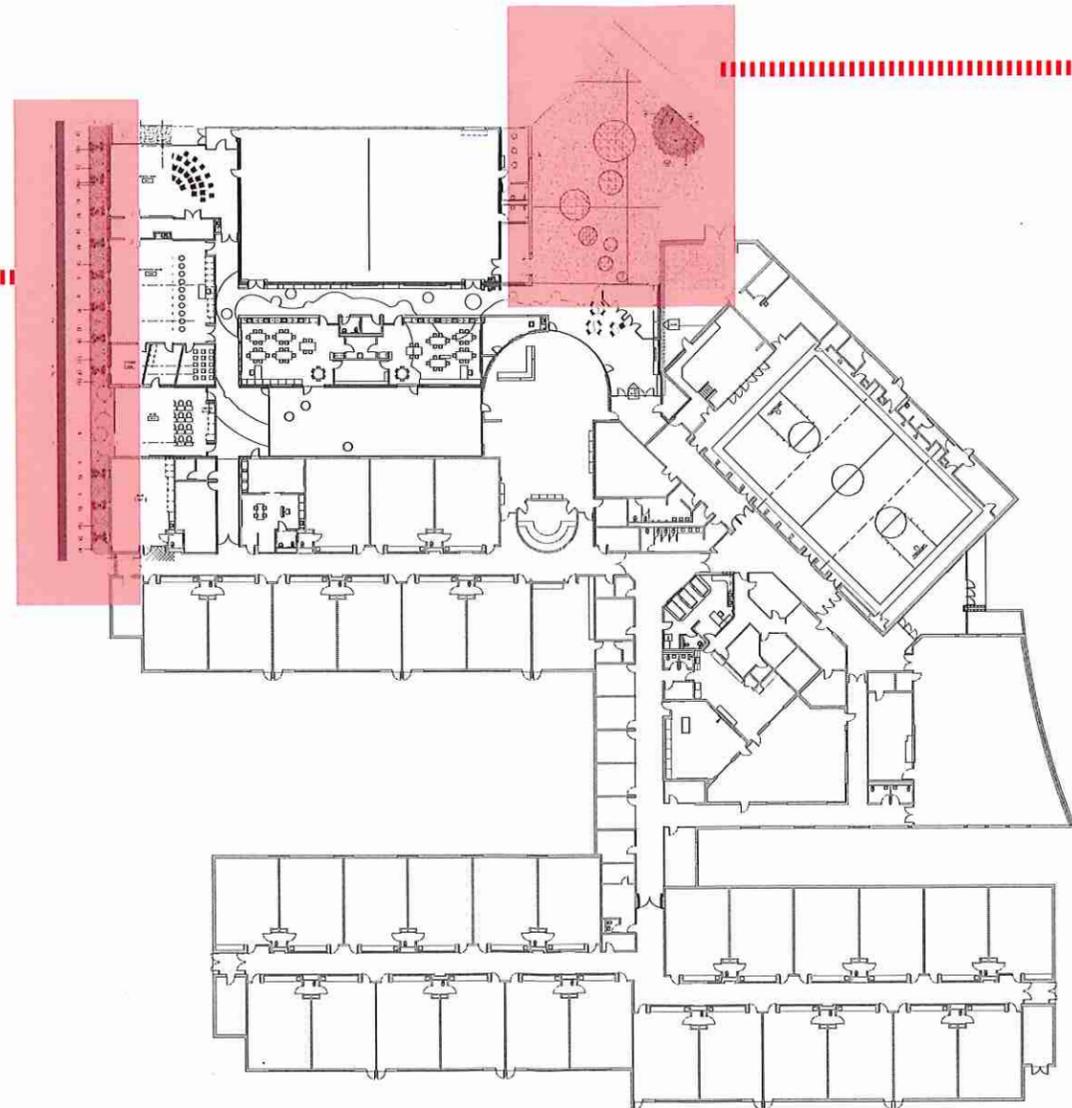
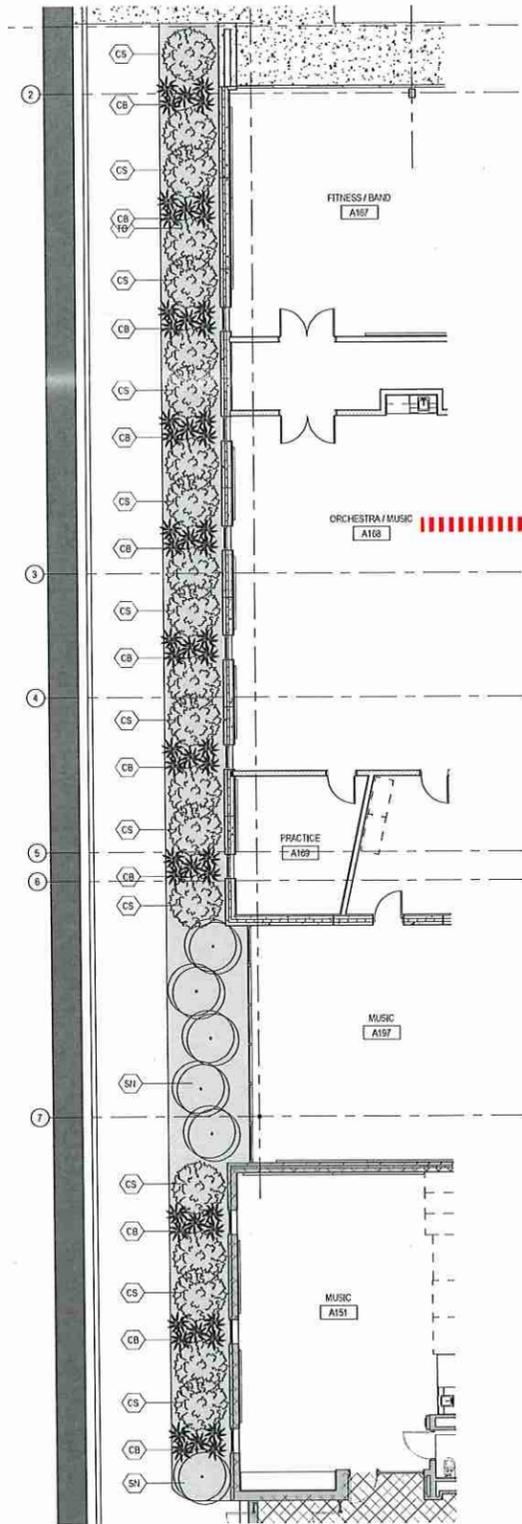


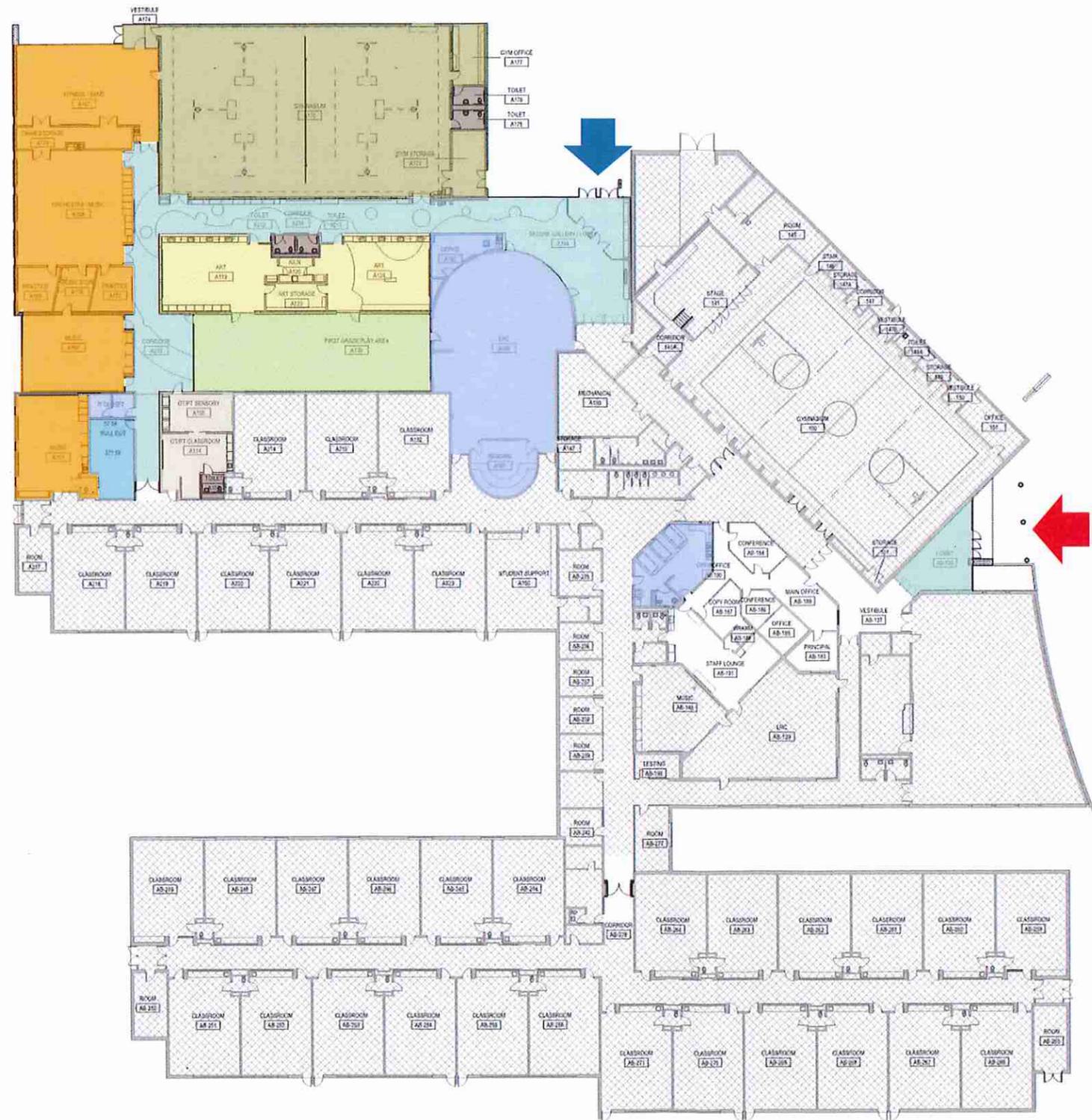
BUILDING ADDITIONS



RENOVATED AREAS

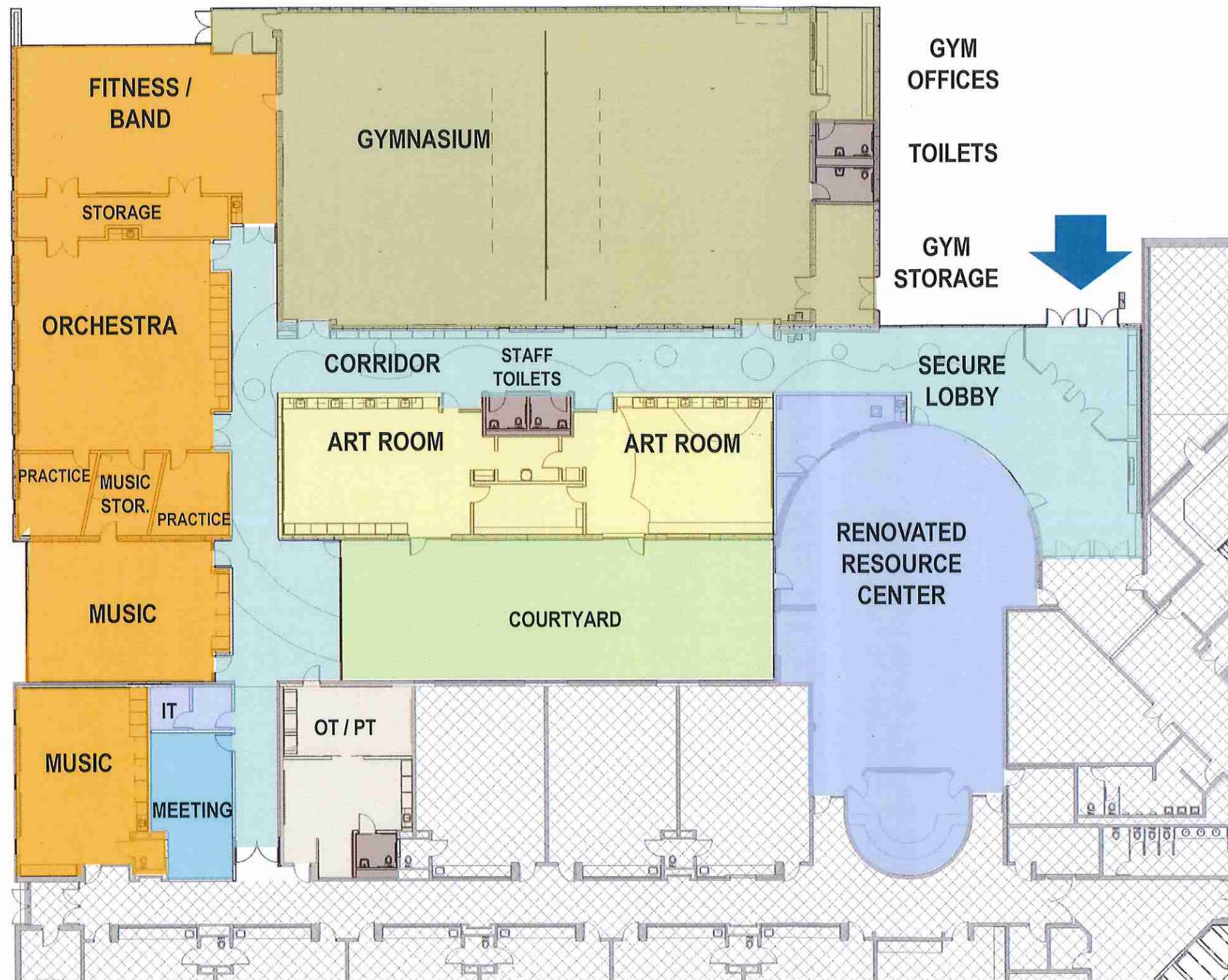






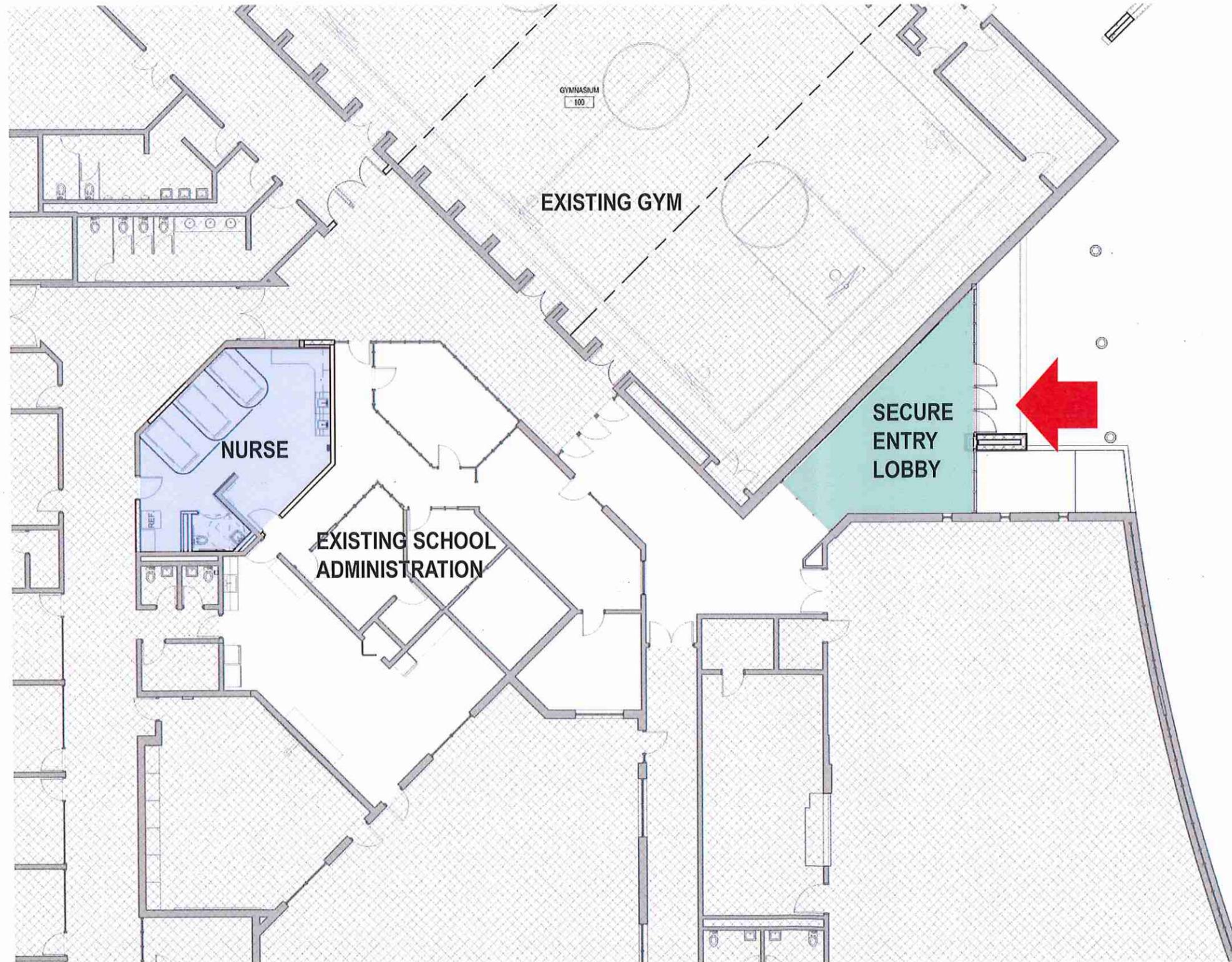
LEGEND

- Art
- Circulation
- Gymnasium
- Meeting Room
- Music
- Outdoor Play
- Special Ed
- Toilet Room
- Existing Room Renovation
- Main Visitor Entry
- Main Student Entry



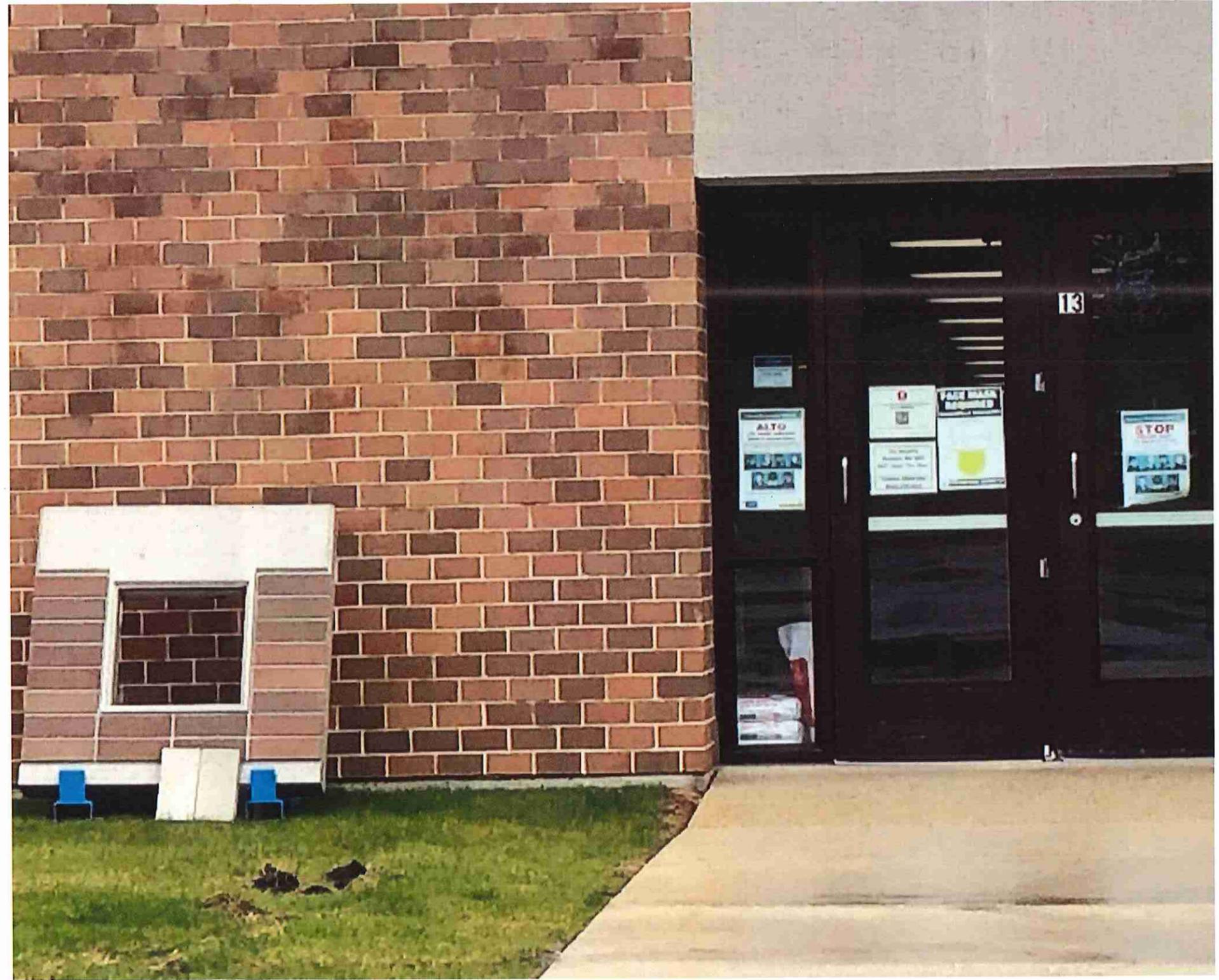
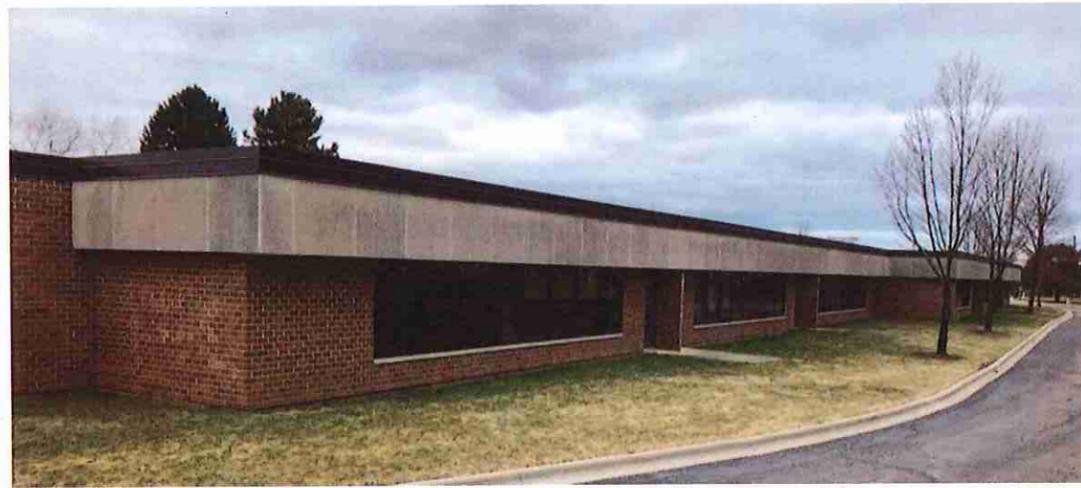
LEGEND

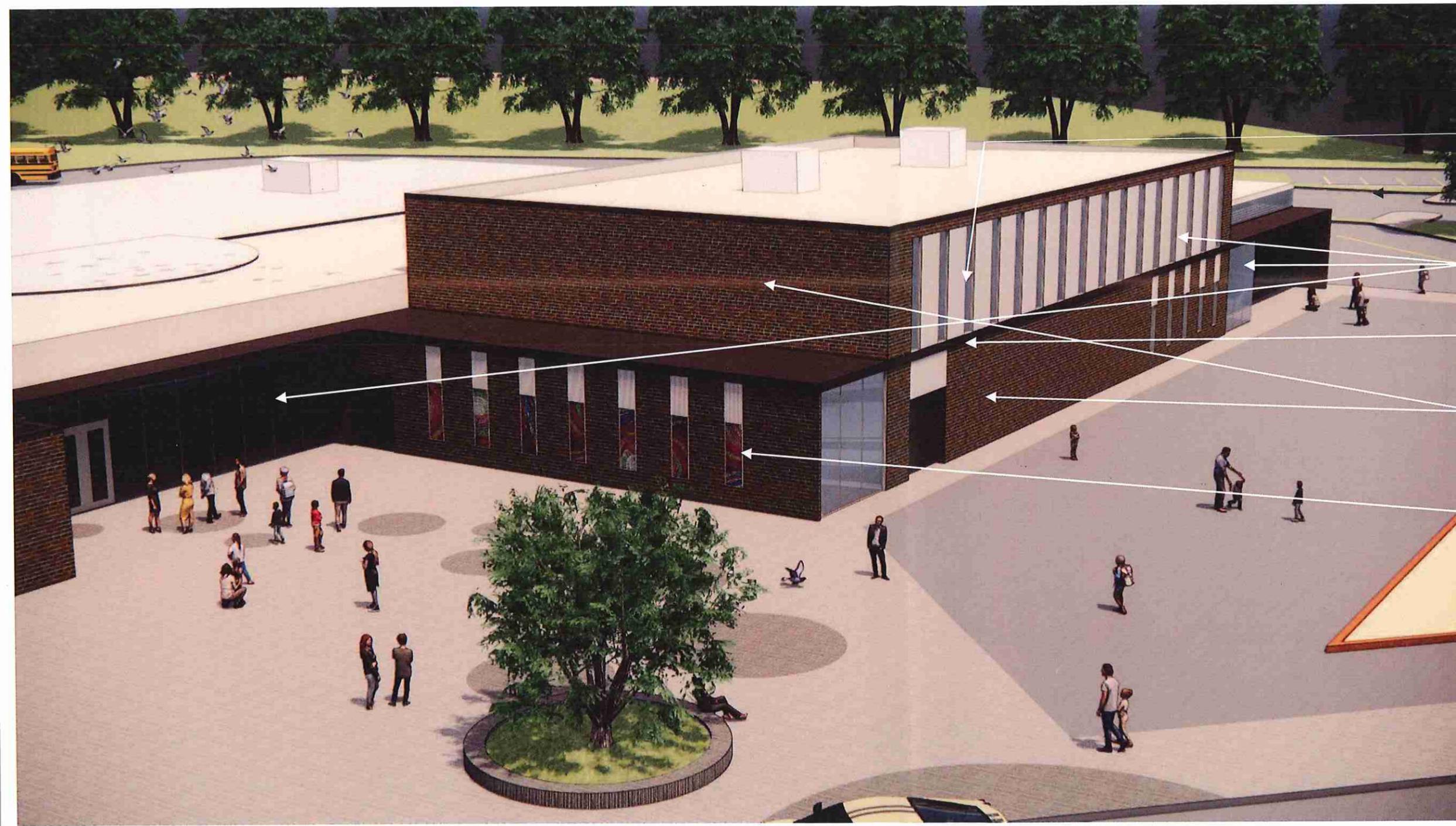
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LEGEND

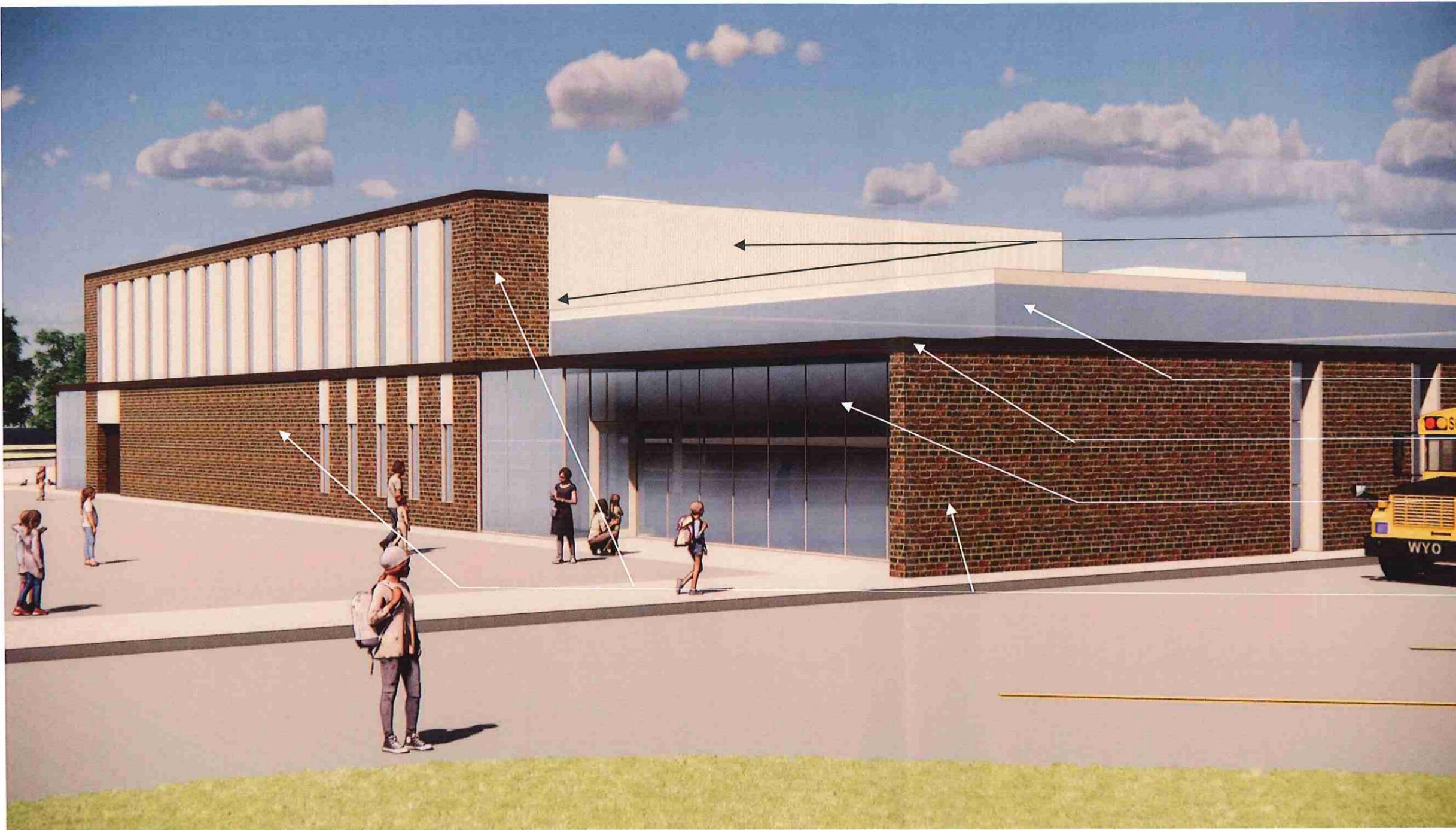
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- ACID ETCHED PRECAST CONCRETE PANEL
- CLERESTORY GLAZING
- ALUMINUM FRAMES AND GLAZING
- MCM PREFINISHED METAL PANEL
- PRECAST CONCRETE PANELS WITH THIN BRICK TO MATCH EXISTING
- RECESSED CERAMIC TILE MOSAICS BY STUDENTS

NORTHEAST AERIAL VIEW



ACID ETCHED PRECAST
CONCRETE PANEL

CLERESTORY GLAZING

MCM PREFINISHED METAL PANEL

ALUMINUM FRAMES AND
GLAZING

PRECAST CONCRETE PANELS
WITH THIN BRICK TO MATCH
EXISTING

NORTHWEST AERIAL VIEW



ALUMINUM FRAMES AND
GLAZING

MCM PREFINISHED METAL PANEL

EAST AERIAL ENTRY VIEW



Questions and Comments

PROFESSIONAL DESIGN FIRM LICENSE:

GEWALT HAMILTON ASSOCIATES, INC.
 DESIGN FIRM - LAND SURVEYOR/PROF ENG
 LICENSE NUMBER: 184.000922-0010
 EXPIRES: 4/30/2021

HAWTHORN SCHOOL DISTRICT #73

HAWTHORN ELEMENTARY SCHOOL SOUTH BUILDING ADDITIONS & RENOVATIONS

430 ASPEN DRIVE VILLAGE OF VERNON HILLS, ILLINOIS

STANDARD SYMBOLS

FEATURE	EXISTING	PROPOSED
BUFFALO BOX		
BUSH/SHRUB		
CATCH BASIN		
CLEANOUT		
COMBINE SEWER LINE		
CONTOUR		
CULVERT		
DITCH/SWALE		
ELECTRIC LINE		
ELECTRIC MANHOLE		
FENCE		
FIRE HYDRANT		
FLARED END SECTION		
GAS LINE		
GAS MANHOLE		
GAS VALVE		
INLET		
LIGHT POLE		
OVERHEAD WIRES		
POWER POLE		
R.O.W LINE		
R.O.W MARKER		
SANITARY FORCEMAIN LINE		
SANITARY SEWER LINE		
SANITARY SEWER MANHOLE		
SIGN		
SPOT ELEVATION		
STORM SEWER LINE		
STORM SEWER MANHOLE		
TELEPHONE LINE		
TELEPHONE MANHOLE		
TELEPHONE BOX/PEDESTAL		
TREE-CONIFEROUS (SIZE/TAG#)		
TREE-DECIDUOUS (SIZE/TAG#)		
VALVE BOX		
VALVE VAULT		
WATER VALVE		
WATERMAIN LINE		

PLANS PREPARED FOR:

HAWTHORN SCHOOL DISTRICT 73
 HAWTHORN ELEMENTARY SCHOOL SOUTH
 430 ASPEN DRIVE
 VERNON HILLS, ILLINOIS 60061

OWNER:

HAWTHORN SCHOOL DISTRICT 73
 841 WEST END COURT
 VERNON HILLS, ILLINOIS 60061
 TEL: 847-990-4200

ARCHITECT:

LEGAT ARCHITECTS, INC.
 651 WEST WASHINGTON BLVD, SUITE ONE
 CHICAGO, IL 60661
 TEL: 312-258-9595

ENGINEER:

GEWALT HAMILTON ASSOCIATES, INC.
 625 FOREST EDGE DRIVE
 VERNON HILLS, ILLINOIS 60061
 TELEPHONE: 847-478-9700

TOPOGRAPHIC SURVEY BY:

GEWALT HAMILTON ASSOCIATES, INC.
 625 FOREST EDGE DRIVE
 VERNON HILLS, ILLINOIS 60061
 TELEPHONE: 847-478-9700

DRAINAGE STATEMENT

TO THE BEST OF OUR KNOWLEDGE AND BELIEF THE DRAINAGE OF THE SURFACE WATERS WILL NOT BE CHANGED BY CONSTRUCTION OF THIS SUBDIVISION (DEVELOPMENT), OR ON THIS SITE, 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 CONSTRUCTION OF THE SUBDIVISION (DEVELOPMENT), OR THIS SITE.

Dated this 2ND day of APRIL, A.D., 2021

Owner or Attorney

Engineer

PROJECT LOCATION

430 ASPEN DRIVE
 VERNON HILLS, ILLINOIS 60061



LOCATION MAP

(Not to Scale)

BENCHMARK:

SOURCE BENCHMARK: (EPS-102)
 VERNON HILLS VILLAGE BENCHMARK 21: CONC ON AND VHS BRASS CAP - STAMPED GPS 21. SET FLUSH WITH THE GROUND. 22'± NORTH OF CL AUGUSTA DRIVE AND 45'± WEST OF CL ARDMORE COURT.

ELEVATION: GPS: 689.27 (RECORD: 689.63)

SITE BENCHMARK:
 NORTH FLANGE BOLT ON HYDRANT LOCATED ±14.5' SOUTH OF ASPEN ELEMENTARY BUILDING, APPROX. 66.2' WEST OF THE SE BUILDING CORNER.

ELEVATION: 708.10

DATUM: NAVD 88
 (VILLAGE OF VERNON HILLS BENCHMARK)

CONTROL POINTS:

Point #	Northing	Easting	Elevation	Description
1	2028029.96	1081656.03	709.34	CP1-MN
2	2028539.06	1081499.84	704.08	CP2-MN
3	2028370.69	1081865.64	705.61	CP3-MN
4	2028186.31	1082171.14	706.77	CP4-MN

UTILITY CONTACTS

TELEPHONE: AT&T	855-293-7676
GAS: NORTH SHORE GAS	844-889-3502
ELECTRIC: COMED	847-816-5350
SANITARY/WATER: LAKE COUNTY PUBLIC WORKS	847-377-7500

COORDINATING/PERMITTING AGENCIES:

VILLAGE OF VERNON HILLS
 290 EVERGREEN DRIVE
 VERNON HILLS, ILLINOIS 60061
 TELEPHONE: 847-367-3700

LAKE COUNTY PUBLIC WORKS
 650 WEST WINCHESTER ROAD
 LIBERTYVILLE, ILLINOIS 60048
 TELEPHONE: 847-377-7500

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY (IEPA)
 1021 NORTH GRAND AVE. EAST
 SPRINGFIELD, ILLINOIS 62794-9276
 TELEPHONE: 217-782-3397

DIVISION OF PUBLIC WATER SUPPLIES
 TELEPHONE: 217-782-3397
 NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
 TELEPHONE: 217-782-0610

RECEIVED

APR 06 2021



SIGNED: Donald E. Dixon P.E.

DATE: 04/02/2021

ILLINOIS LICENSE NO.: 062-051136

EXPIRATION DATE: NOVEMBER 30, 2021

ISSUED FOR CONSTRUCTION SET

DATE: APRIL 2, 2021

J.U.L.I.E
 JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION CALL 811

 Know what's below. Call before you dig.

NOTE: CONSTRUCTION MEANS, METHODS AND JOB SITE SAFETY IS THE SOLE AND EXCLUSIVE RESPONSIBILITY OF THE CONTRACTOR

GHA GEWALT HAMILTON ASSOCIATES, INC.
 625 Forest Edge Drive ■ Vernon Hills, IL 60061
 TEL 847.478.9700 ■ FAX 847.478.9701

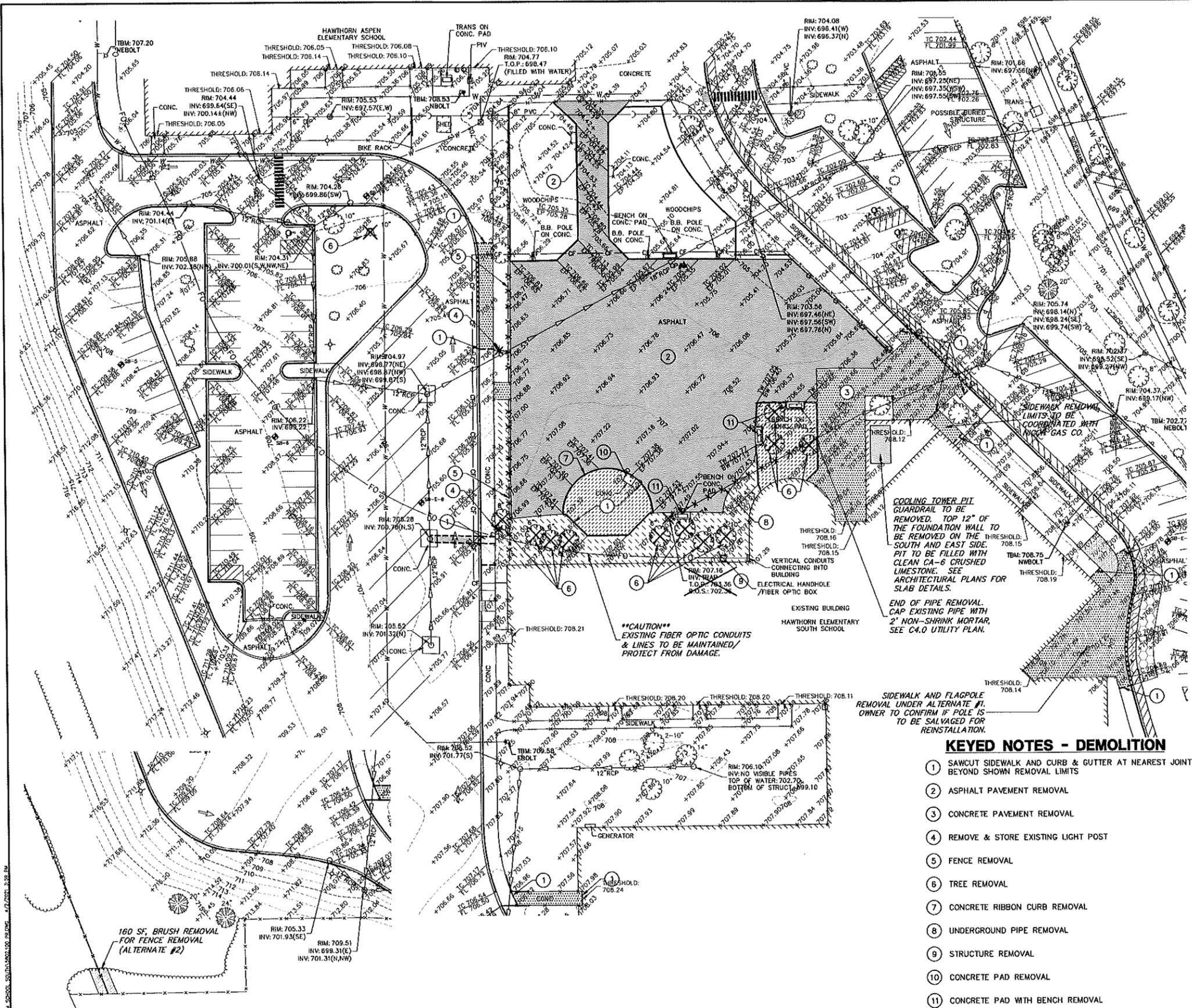
COPYRIGHT NOTICE
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TITLE SHEET

**HAWTHORN ELEMENTARY SCHOOL SOUTH
 HAWTHORN SCHOOL DISTRICT #73
 VILLAGE OF VERNON HILLS, ILLINOIS**

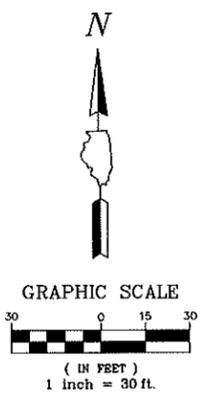
NO.	BY	DATE	REVISION	NO.	BY	DATE	REVISION
6	ALC	04/02/21	ISSUED FOR CONSTRUCTION SET				
5	ALC	03/15/21	VILLAGE RESUBMITTAL SET #3				
4	ALC	03/03/21	VILLAGE RESUBMITTAL SET #2				
3	ALC	12/17/20	IFB ADDENDUM #3				

FILE: 5802.100 DT.dwg	SHEET NUMBER: C1.0
DRAWN BY: ALC DATE: 12/07/20	GHA PROJECT # 5802.000
CHECKED BY: DED DATE: 12/07/20	SCALE: N.A.
	OF 15 SHEETS



REMOVAL LEGEND

- PAVEMENT REMOVAL FULL DEPTH
- 2" SURFACE MILLING
- SIDEWALK REMOVAL
- CONCRETE REMOVAL
- WOOD CHIP AREA REMOVAL
- TOPSOIL REMOVAL
- SIGN REMOVAL
- TREE/SHRUB REMOVAL
- STRUCTURE REMOVAL
- PAVEMENT SAWCUT
- CURB/COMBINATION CURB AND GUTTER REMOVAL
- BARRIER CURB REMOVAL
- UTILITY TO BE ABANDONED
- UTILITY TO BE REMOVED
- FENCE REMOVED
- CONSTRUCTION FENCE
- SOIL BORING
- STRUCTURE TO BE ABANDONED
- SIDEWALK TO REMAIN (REMOVAL & REPLACEMENT OF DAMAGED AREA FROM CONSTRUCTION ACTIVITY TO BE INCORPORATED INTO BIDS)



EXISTING CONDITION AND DEMOLITION NOTES

1. Prior to starting any construction, provide soil erosion and sediment control devices as shown on the plans and as required per IEPA NPDES guidelines. Refer to notes and details throughout the entire plan set.
2. Prior to starting any excavation work, provide tree protection, preservation and root pruning as shown on the plans and notes throughout the entire plan set.
3. Contractor shall refer to subsurface soil exploration report.
4. Aspen Drive is under the jurisdiction of Village of Vernon Hills. All work within the right of way will require a permit.
5. The contractor shall be responsible for fencing the active work zone from the public and protecting the public from any construction related hazards. At a minimum, all excavation, demolition areas and other areas potentially hazardous to pedestrians and vehicles must be protected.
6. At all times, main drive, loading docks, and dumpster areas shall remain open and unobstructed. Temporary shut down of one traffic lane at a time will be permitted for short term periods and shall be coordinated with appointed Property Owner construction staff. Short term closings shall be completed within the work day and restored to unobstructed access by the close of the work day.
7. Temporary stone or asphalt pathways shall be provided as needed throughout the course of construction to facilitate safe pedestrian and vehicular movement. The longitudinal slope of such paths shall not exceed 5% and cross slopes shall not exceed 2%. Provide 6" CA-6 base and 2" surface asphalt.
8. The existing facilities will remain open and actively used. Contractor shall refer to Mechanical, Electrical & Plumbing (MEP) plans and Architectural plans and coordinate with utility companies to ensure continuous utility services during demolition and transitioning of services.
9. The contractor is responsible for the demolition and disposal of all existing improvements onsite necessary to complete the job. These improvements include, but are not limited to, existing pavements, curbs, sidewalks, utilities, lighting, light bases, manholes, fences, foundations, and other structures within the work area. Excavate and grade to proposed pavement and building subbase grades. (Refer to foundation plans for proposed building subbase grades.) These items shall be completely removed and legally disposed of offsite.
10. Remove or abandoned existing utilities as shown. Utilities that are removed, unless otherwise noted, shall be backfilled with CA-7 crushed limestone in lifts of 8" or less and compacted to 95% Modified Proctor density. Utilities to be abandoned shall be plugged at both ends with a minimum of 2 feet long non-shrink concrete/mortar plugs. Manhole structures to be abandoned shall have the top section removed, sawers bulkheaded with concrete and backfilled with CA-7 crushed limestone.
11. Temporarily remove, store and protect signs and posts within affected work zone for reinstallation. Coordinate onsite storage with Property Owner. Property Owner to determine signs and posts to salvage.
12. The Contractor shall include all associated costs with the removal, transport, disposal, testing and certification of "Uncontaminated Soil" as defined under 415 ILCS 5/3.160 including any fees, taxes, or surcharges charged by or through the operator(s) of Clean Construction or Demolition Debris Fill Operations or Uncontaminated Soil Fill Operations for the acceptance of Uncontaminated Soil.
13. Existing condition survey provided by Gewalt Hamilton Associates, Inc. dated April 16, 2020.

COOLING TOWER PIT
GUARDRAIL TO BE REMOVED. TOP 12" OF THE FOUNDATION WALL TO BE REMOVED ON THE THRESHOLD SOUTH AND EAST SIDE. PIT TO BE FILLED WITH CLEAN CA-6 CRUSHED LIMESTONE. SEE ARCHITECTURAL PLANS FOR SLAB DETAILS.

END OF PIPE REMOVAL
CAP EXISTING PIPE WITH 2" NON-SHRINK MORTAR, SEE C4.0 UTILITY PLAN.

SIDEWALK AND FLAGPOLE
REMOVAL UNDER ALTERNATE #1. OWNER TO CONFIRM IF FLAGPOLE TO BE SALVAGED FOR REINSTALLATION.

****CAUTION****
EXISTING FIBER OPTIC CONDUITS & LINES TO BE MAINTAINED/PROTECT FROM DAMAGE.

KEYED NOTES - DEMOLITION

- 1 SAWCUT SIDEWALK AND CURB & GUTTER AT NEAREST JOINT BEYOND SHOWN REMOVAL LIMITS
- 2 ASPHALT PAVEMENT REMOVAL
- 3 CONCRETE PAVEMENT REMOVAL
- 4 REMOVE & STORE EXISTING LIGHT POST
- 5 FENCE REMOVAL
- 6 TREE REMOVAL
- 7 CONCRETE RIBBON CURB REMOVAL
- 8 UNDERGROUND PIPE REMOVAL
- 9 STRUCTURE REMOVAL
- 10 CONCRETE PAD REMOVAL
- 11 CONCRETE PAD WITH BENCH REMOVAL

GHA GEWALT HAMILTON ASSOCIATES, INC.
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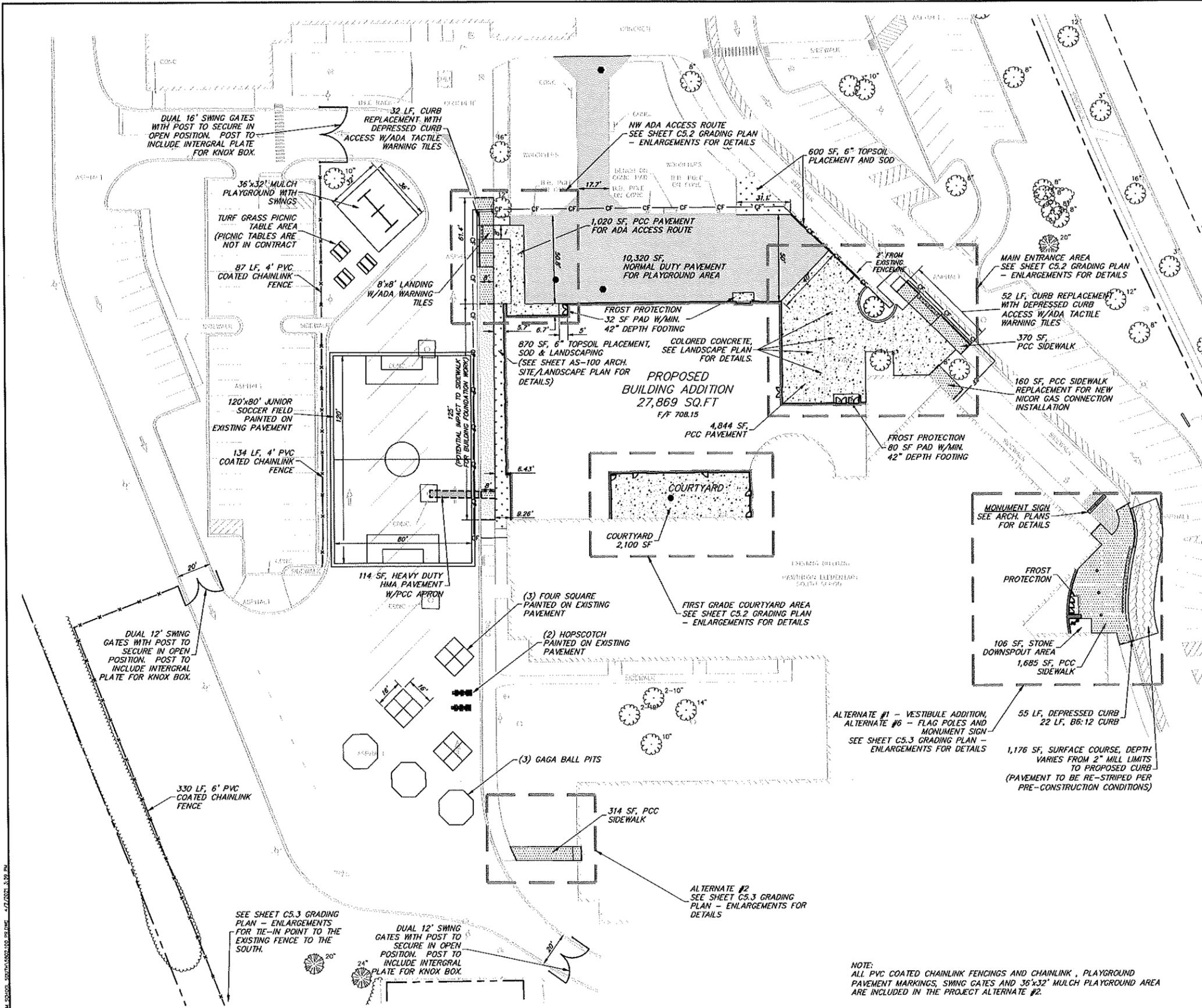
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EXISTING CONDITIONS/DEMOLITION PLAN
HAWTHORN ELEMENTARY SCHOOL SOUTH
HAWTHORN SCHOOL DISTRICT #73
VILLAGE OF VERNON HILLS, ILLINOIS

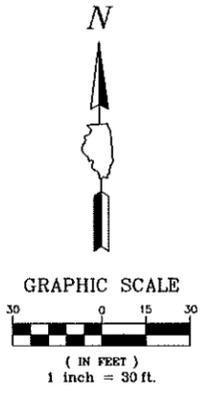
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3	ALC	12/17/20	IFB ADDENDUM #3				

FILE 5802.100 PR.dwg	SHEET NUMBER
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DATE 12/07/20	5802.000
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DATE 12/07/20	1"=30'
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C2.0



- PROPOSED LEGEND**
- NORMAL DUTY PAVEMENT
 - HEAVY DUTY PAVEMENT
 - HMA SURFACE COURSE MIX D, N50
 - PCC SIDEWALK, 5"
 - PCC PAVEMENT, 6"
 - DETECTABLE WARNINGS
 - B6.12 CURB & GUTTER (REGULAR)
 - B6.12 CURB & GUTTER (DEPRESSED)
 - B6.12 CURB & GUTTER (REVERSE PITCH)
 - BARRIER CURB
 - PAVEMENT SAWCUT
 - FENCE
 - PERIMETER EROSION BARRIER
 - CONSTRUCTION FENCE
 - SOD RESTORATION



GEOMETRIC AND PAVING PLAN

1. All pavement dimensions are to edge of pavement, unless otherwise noted. E=edge of pavement, B=back of curb, F=face of curb. Radii dimensions are to back of curb.
2. Install all curb and sidewalk as shown. Note some curbs require reverse pitch gutter. Dowel new sidewalk and curb to existing and proposed curbs per general notes. When constructing a carriage walk, the proposed sidewalk contraction and expansion joints shall align with existing curb joints.
3. Provide 1.90% cross slope and 4.5% maximum longitudinal slope on all sidewalks and pedestrian path ways unless otherwise indicated. Illinois accessibility code requires a maximum constructed cross slope of 2.00% and longitudinal slope of 5.00%.
4. Install bituminous pavement as shown. Refer to detail sheet for specific pavement sections and general note sheet for construction, testing and compaction requirements.
5. Install bituminous pavement and concrete pavement as shown. Where normal duty pavement replacement is indicated, the existing stone base and additional stone shall be graded to meet the normal duty asphalt depth and recompact and proof rolled prior to repaving. Village inspector to be notified and to be present during all proof roll activity. No pavement shall be placed until Village documented approval is received.
6. Install PCC pavement as shown. Refer to detail sheet for specific pavement section and general notes for construction, testing and compaction requirements.
7. Contractor shall install temporary erosion control seed and blanket as necessary to meet soil erosion and sediment control requirements. Refer to notes and details throughout the plan set for specific material requirements.
8. For final restoration, the contractor shall be responsible for restoring all disturbed turf areas and proposed turf areas as follows:
 - a. Refer to Landscape plans for plant and tree material and installation requirements.
 - b. Refer to Landscape plans for topsoil, seed and sod material and restoration requirements.
 - c. Prior to placement of topsoil restoration area subgrade material shall be rototilled and re-compacted to a maximum of 80% standard proctor to a depth of 6".
 - d. Spread a minimum of 6" of existing site salvaged screened topsoil or new pulverized topsoil on all disturbed areas. Compact to 80% standard proctor.
 - e. Topsoil must be free of litter, brush, rocks and earth clods of greater than 1 inch in any dimension. Contain between 1%-10% organic matter, 12%-50% clay, and less than 55% sand content. pH shall be between 6.0 and 8.0.
 - f. Seed restoration areas as follows:
 - IDOT Class 1 seed. (Lawn mixture)
 - IDOT Class 4 seed. (Native Grass)
 - Fertilizer shall be applied following IDOT requirements.
 - Erosion control blanket shall be North American Green S75 or approved equal installed following manufacturer guidelines.
 - g. Sod restoration areas as follows:
 - Sod shall be 24" wide x 54" long or 2.5' by 30' long thick cut (1-1/2") of well rooted growth material.
 - Seed mixture shall closely match IDOT Class 1.
 - Sod shall be rolled after installation.
 - h. Contractor shall be responsible for watering the restored area per IDOT specifications for a duration of 30 days prior to the Owner's final review and acceptance. If restoration has not shown a "catch" or uniform stand, the contractor shall repeat reseeding or resodding until a uniform stand is achieved.
13. Once restoration has been completed, the contractor shall remove erosion control devices. Silt fence trenches shall be backfilled and restored in kind. Storm structures shall be cleaned of debris.

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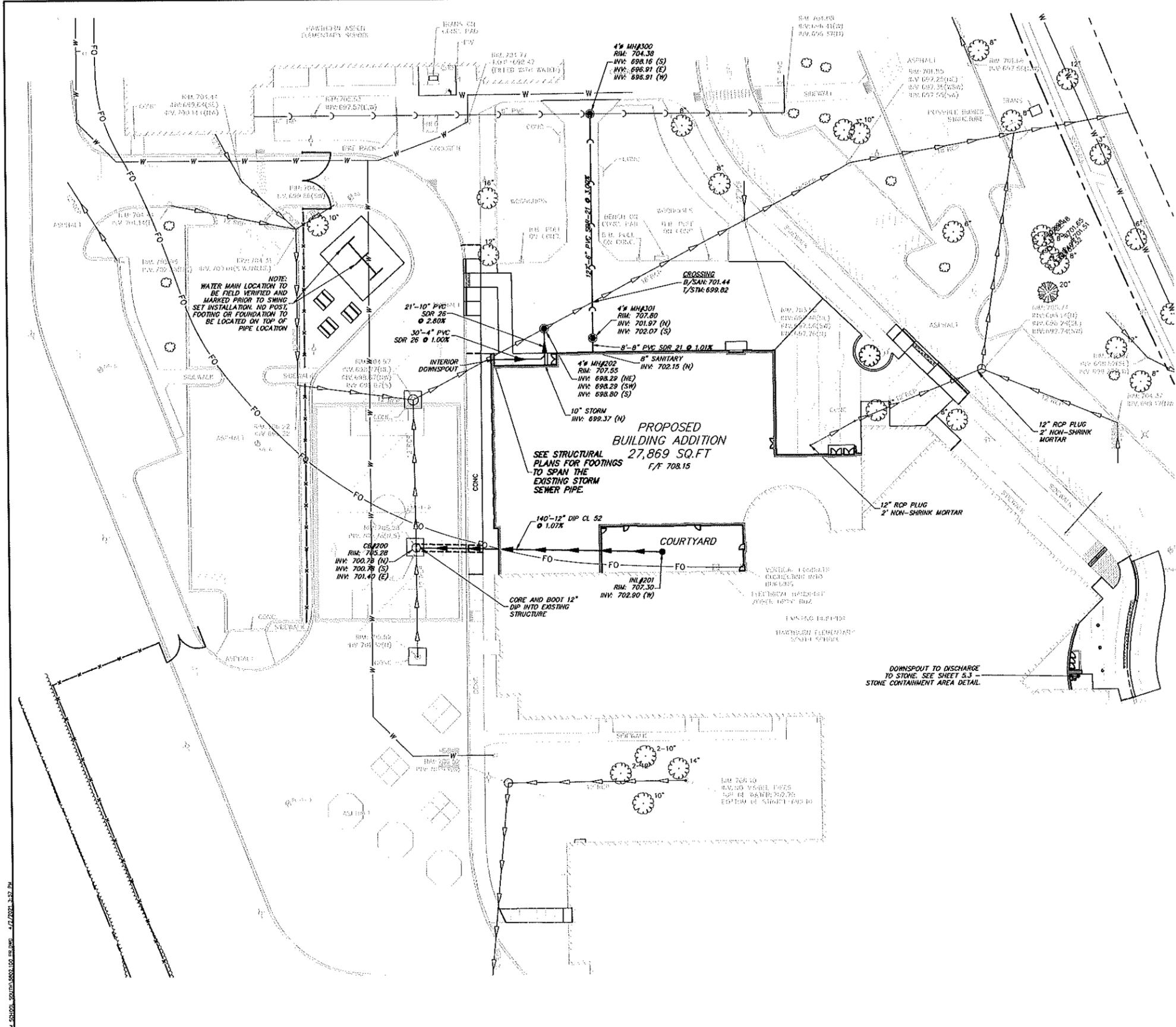
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GEOMETRIC PLAN
HAWTHORN ELEMENTARY SCHOOL SOUTH
HAWTHORN SCHOOL DISTRICT #73
VILLAGE OF VERNON HILLS, ILLINOIS

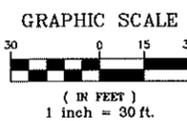
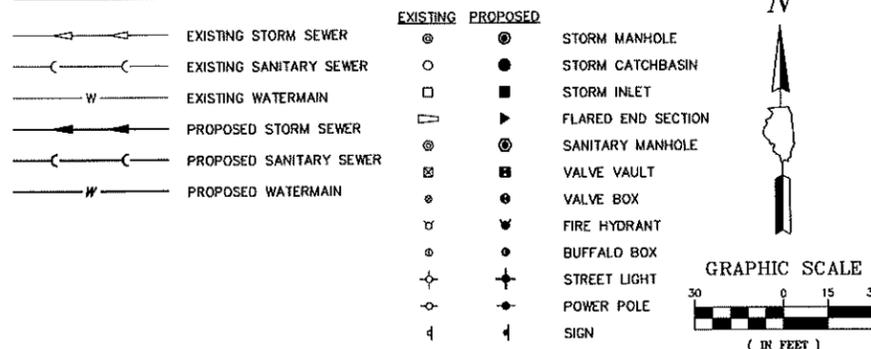
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UTILITY PLAN LEGEND



UTILITY PLAN NOTES

- The contractor shall verify the exact location and elevation of existing utilities prior to initiating work. Any discrepancies found between the information noted on the plans and actual field conditions, or any conflicts with proposed improvements shall be reported to the Engineer immediately. The contractor shall not proceed any further until given written clarification on how to proceed.
- Install storm sewer as shown. Refer to Storm Sewer requirement table on General Notes Sheet for pipe material, joint, frame and grate, stone bedding and testing requirements.
- All ductile iron pipe (DIP) to receive polyethylene encasement (Polywrap) conforming to ANSI/AWWA C105/A21.5-10.
- RCP Water Quality Pipe (WQP) to use rubber gasketed joints conforming to ASTM C-443 & C-1628 standards. See Materials Table on sheet C7.0 General Notes.
- All connections to existing storm structures shall be machined cored and booted per the Village Exhibit #43 detail.
- All proposed pipe connections to sanitary manholes (existing & proposed) shall have rubber boots in accordance with ASTM C-923.
- Existing storm structures to remain within the redevelopment area have been noted with 'Adjust Rim' or 'Adjust MH'. 'Adjust Rim' requires removal of frame, additional or removal of concrete rings and reinstallation of frame. 'Adjust MH' requires removal of frame, flattop or cone, and first barrel section, installation of new shorter barrel section and reinstallation of flattop or cone and frame.
- All PVC pipe sleeves shall be SDR-26 or greater.
- Refer to MEP and Architectural plans for electric and gas requirements and final routing.
- Contractor shall provide the following as-constructed documents at the conclusion of the project:
 - Water Main**
 - All valve vaults or valve boxes on public lines shall be numbered and their locations tied to two (2) above ground, permanent structures or GPS point.
 - All water mains shall be identified by pipe diameter and material type. Each bend and tee shall be tied to two (2) above ground, permanent structures or GPS point. The pipe shall be tied to a permanent structure at a minimum of 100' intervals.
 - All water services shall be identified by pipe diameter, pipe material, and location of B-Box. The location of the B-Box shall be tied to two (2) above ground, permanent structures or GPS point.
 - An as-built water main profile shall be provided with top of pipe elevations at key locations (bends, pipe crossings, vaults, deflections, etc.) and depth below finished grade.
 - Sanitary Sewer**
 - All manholes shall be numbered with corrected Rim and Invert elevations provided and shall be located from two (2) above ground, permanent structures or GPS point.
 - All pipes shall include lineal footage between center of manholes, diameter of pipe, material type, and corrected slope.
 - All sewer services shall be identified by stationing from the nearest downstream manhole. Information required includes lineal footage of lateral, length of riser, pipe diameter, and pipe material. The upstream end of all non-connected sewer stubs shall be located from two (2) above ground, permanent structures or GPS point and have the depth of the stub identified.
 - Storm Sewer**
 - As-constructed locations of structures, service connections, cleanouts.
 - Rim and invert elevations.
 - Color video with transcript required for new sewer lines installed.
- Contractor shall ensure positive drainage to all inlets and catchbasins. Areas of surface ponding shall be corrected by the contractor at no additional expense to the Owner.
- Install site lighting per electrical plans. Refer to electrical plans for light fixture, post, make and model and foundation details. Also refer to electrical plans for final wire routing connections and requirements.
- Install power feed conduits as shown. Refer to electrical plans for conduit and manhole details and building termination connections.
- All buried hardware shall be non-ferrous material. Stainless steel bolts and nuts shall be installed with anti-seize coating (Loctite Marine Grade Anti-Seize Lubricant or approved equal.)
- The Contractor shall include all associated costs with the removal, transport, disposal, testing and certification of "Uncontaminated Soil" as defined under 415 ILCS 5/3.160 including any fees, taxes, or surcharges charged by or through the operator(s) of Clean Construction or Demolition Debris Fill Operations or Uncontaminated Soil Fill Operations for the acceptance of Uncontaminated Soil.
- Contact Lake County Department of Public Works (LCDPW) at 847-377-7500 a minimum of 48 Hours prior to the pre-construction meeting and start of sanitary sewer or water main construction.
- Lake County Department of Public Works shall be granted access to all parts of the construction site and shall have the authority to inspect, approve, and/or reject all water main, water services, sanitary sewer, and sanitary service improvements.

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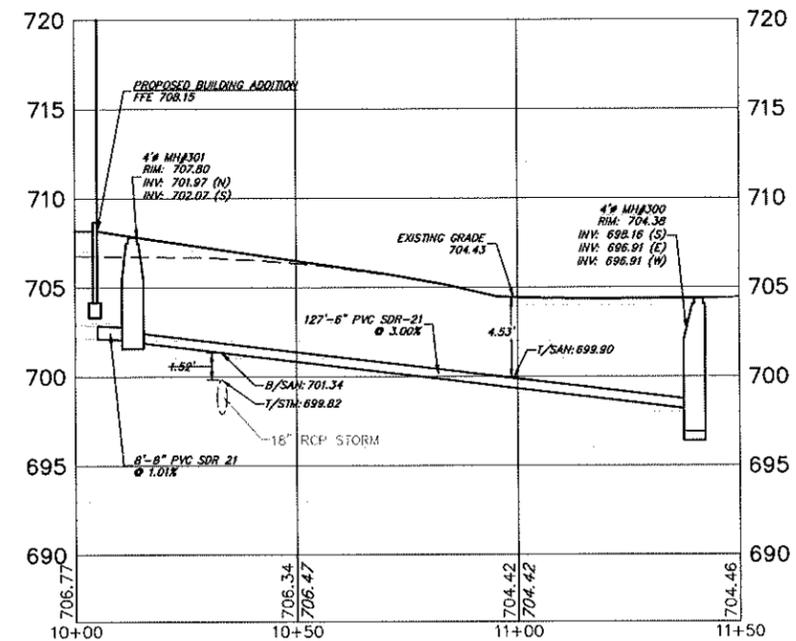
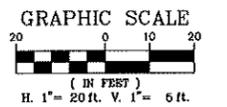
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UTILITY PLAN
HAWTHORN ELEMENTARY SCHOOL SOUTH
HAWTHORN SCHOOL DISTRICT #73
VILLAGE OF VERNON HILLS, ILLINOIS

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C4.0



SANITARY SEWER CONNECTION PROFILE

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UTILITY PLAN - PROFILES
HAWTHORN ELEMENTARY SCHOOL SOUTH
HAWTHORN SCHOOL DISTRICT #73
VILLAGE OF VERNON HILLS, ILLINOIS

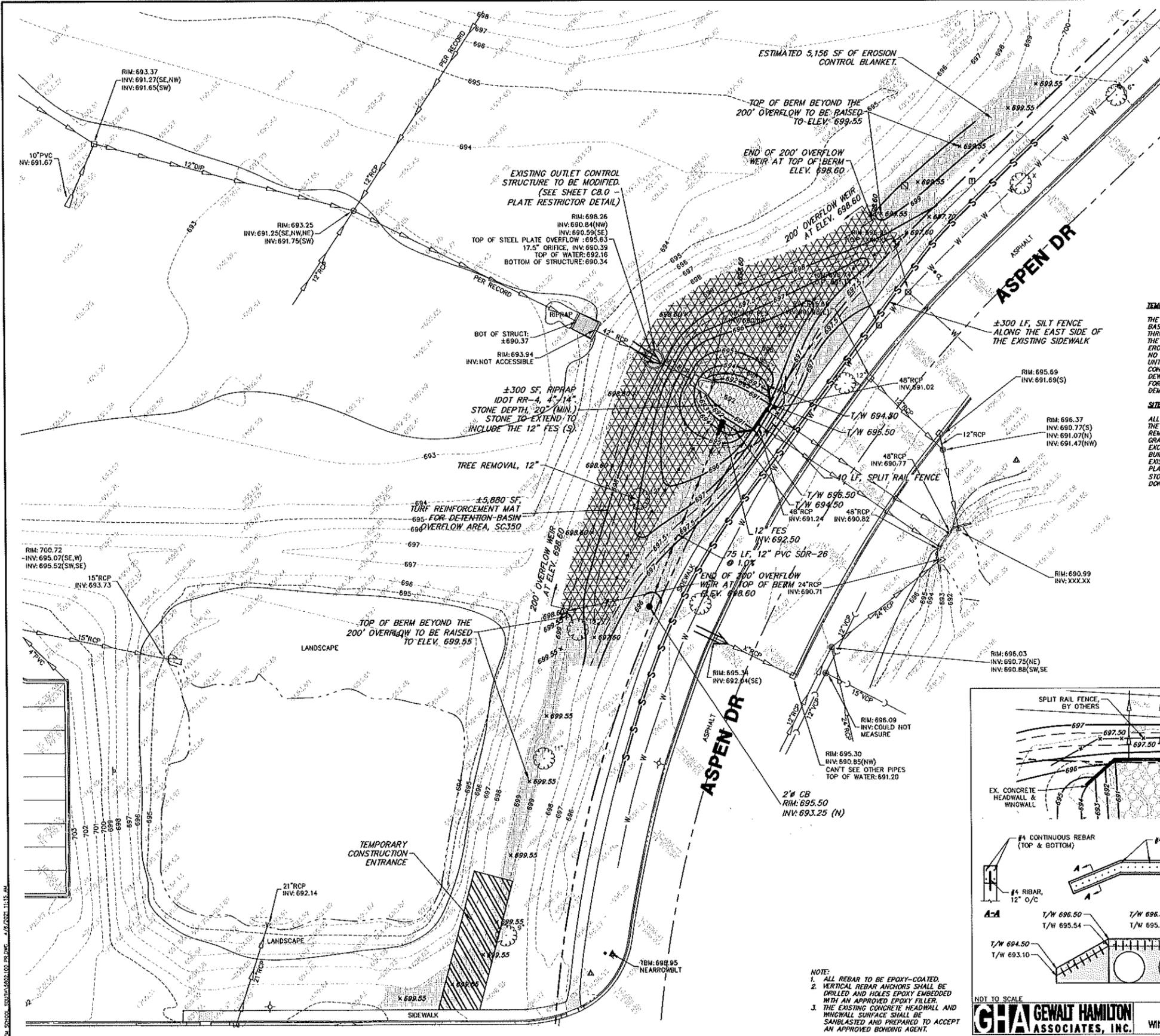
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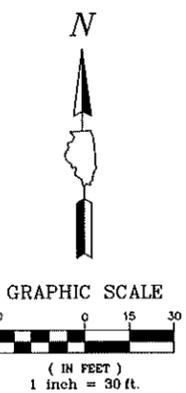
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GRADING LEGEND

- TOP OF CURB FLOW LINE
- PROPOSED SPOT ELEVATION
- CONTOUR
- STRUCTURE ADJUSTMENT
- SUMMITS
- SLOPES
- SWALES
- OVERLAND FLOW ROUTE



SESC LEGEND

- TOPSOIL FURNISH AND PLACE, VARIABLE DEPTH SEEDING, CLASS 4
- EROSION CONTROL BLANKET NAG S75 (4:1 SLOPES), NAG S150 (3:1 SLOPES OF STEEPER)
- TOPSOIL FURNISH AND PLACE, VARIABLE DEPTH SEEDING, CLASS 4
- EROSION CONTROL BLANKET NAG C250 (EMERGENCY OVERFLOW)

GRADING PLAN NOTES

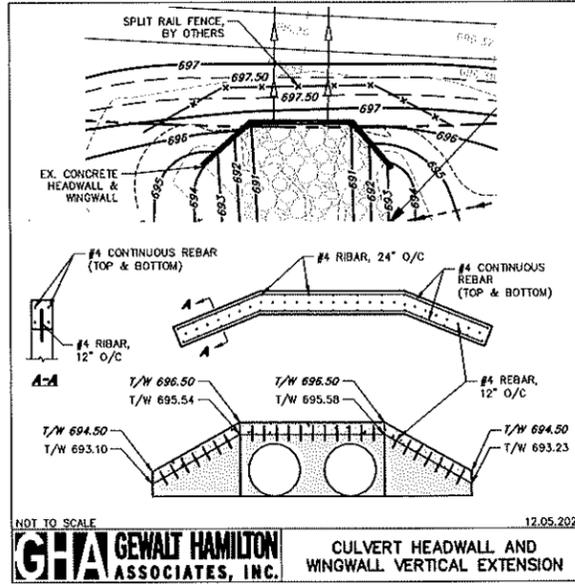
1. Prior to starting any construction, provide soil erosion and sediment control devices as shown on the plans and as required per IEPA NPDES guidelines. Refer to notes and details throughout the entire plan set.
2. Prior to starting any excavation work, provide tree protection, preservation and root pruning as shown on the plans and notes throughout the entire plan set.
3. Contractor shall refer to subsurface soil exploration report.
4. Refer to sheet C7.0 General Notes for grading, compaction and proof roll requirements.
5. All grading on the detention basin embankments, overflow weir and downstream regrading at the Aspen Drive culvert to be compacted to 95% modified proctor density.
6. The contractor shall import or export soil as necessary to construct the site to specified plan grades. Such work is considered incidental to the contract and no additional compensation shall be allowed for such work. Minor adjustments to grades can be accommodated with Project Engineer approval prior to the commencement of work.
7. The Contractor shall include all associated costs with the removal, transport, disposal, testing and certification of "Uncontaminated Soil" as defined under 415 ILCS 5/3.160 including any fees, taxes, or surcharges charged by or through the operator(s) of Clean Construction or Demolition Debris Fill Operations or Uncontaminated Soil Fill Operations for the acceptance of Uncontaminated Soil.
8. All structures shall be adjusted to meet finished turf and pavement grades.
9. Refer to soil erosion and sediment control notes and details for seed and blanket requirements for temporary stabilization.
10. Refer to geometric plan or landscape plan for final restoration requirements.
11. Contractor shall provide the following as-constructed documents at the conclusion of the project:
 - a. Stormwater Basins and swales impounding water
 - Top of berm, overflow, and bottom of basin elevations
 - Structure and flared end sections elevations within basin
 - Control structure overflow weir, restrictor plate orifice invert elevation and size.
 - As-constructed volumes within respective basins up to overflow elevation.
 - b. Lawn or open space areas
 - Spot elevations at a maximum 50 foot grid.
 - Spot elevation top and bottom of berms or swales
 - Spot elevations and ridge / high and low points.
 - c. Parking lot and hard surfaces
 - Top of curb and flowline elevations at similar locations to proposed grading.
 - Spot elevations at summit / high and low points.
 - ADA parking stalls, sidewalk ramps, and ADA Routes
 - Provide 6 spot elevations within the parking stall 3 along the front and rear of the stall at 8 foot spacing along the stall pavement markings.
 - Provide 4 spot grades per square at landings and any tapers or ramps.
 - Provide spot elevations along route at maximum 10 foot spacing on both sides of the path to confirm cross and longitudinal slopes requirements have been met.
 - e. Buildings
 - Top of foundation elevations.
 - Finished floor elevations at doorways.

TEMPORARY DEWATERING PLAN

THE EXISTING FLOW FROM THE DETENTION BASIN IS REQUIRED TO BE BYPASSED THROUGH THE DOWNSTREAM WORK AREA UNTIL THE FINAL GRADING, RIPRAP PLACEMENT AND EROSION CONTROL MEASURE ARE COMPLETED. NO WORK IS TO BE PERFORMED IN THE AREA UNTIL ALL BYPASS MEASURE ARE IN-PLACE. CONTRACTOR TO SUBMIT A TEMPORARY DEWATERING PLAN TO THE VILLAGE ENGINEER FOR APPROVAL PRIOR TO COMMENCEMENT OF DEMOLITION ACTIVITIES.

SITE GRADING NOTES

ALL SITE SPOILS FOR THE EXCAVATION OF THE NEW OVERFLOW AREA ARE TO BE REMOVED FROM THE PROJECT AREA. SEE GRADING PLAN NOTES #6 & #7. ALL EXCAVATED MATERIAL BEING USED TO BUILD-UP FOR THE BERM, EAST OF THE EXISTING CULVERT HEADWALL, ARE TO BE PLACED IMMEDIATELY UPON EXCAVATION. NO STOCKPILING/STAGING OF MATERIALS TO BE DONE ON-SITE.



- NOTE:
1. ALL REBAR TO BE EPOXY-COATED.
 2. VERTICAL REBAR ANCHORS SHALL BE DRILLED AND HOLES EPOXY EMBEDDED WITH AN APPROVED EPOXY FILLER.
 3. THE EXISTING CONCRETE HEADWALL AND WINGWALL SURFACE SHALL BE SANBLASTED AND PREPARED TO ACCEPT AN APPROVED BONDING AGENT.

Project: Hawthorn Elementary School South - Proposed building addition
 Job #: 5802.100
 Date: 4/6/2021

2003 Required Volume		16.44 Ac-Ft
2003 Provided Volume	HWL 698.50	18.32 Ac-Ft
2010 Asbuilt Volume	HWL 698.50	16.55 Ac-Ft
2021 Surveyed Volume	HWL 698.26	15.55 Ac-Ft
2021 Required Volume	HWL 698.55	17.18 Ac-Ft
2021 Provided Volume (at Overflow)	HWL 698.60	17.44 Ac-Ft

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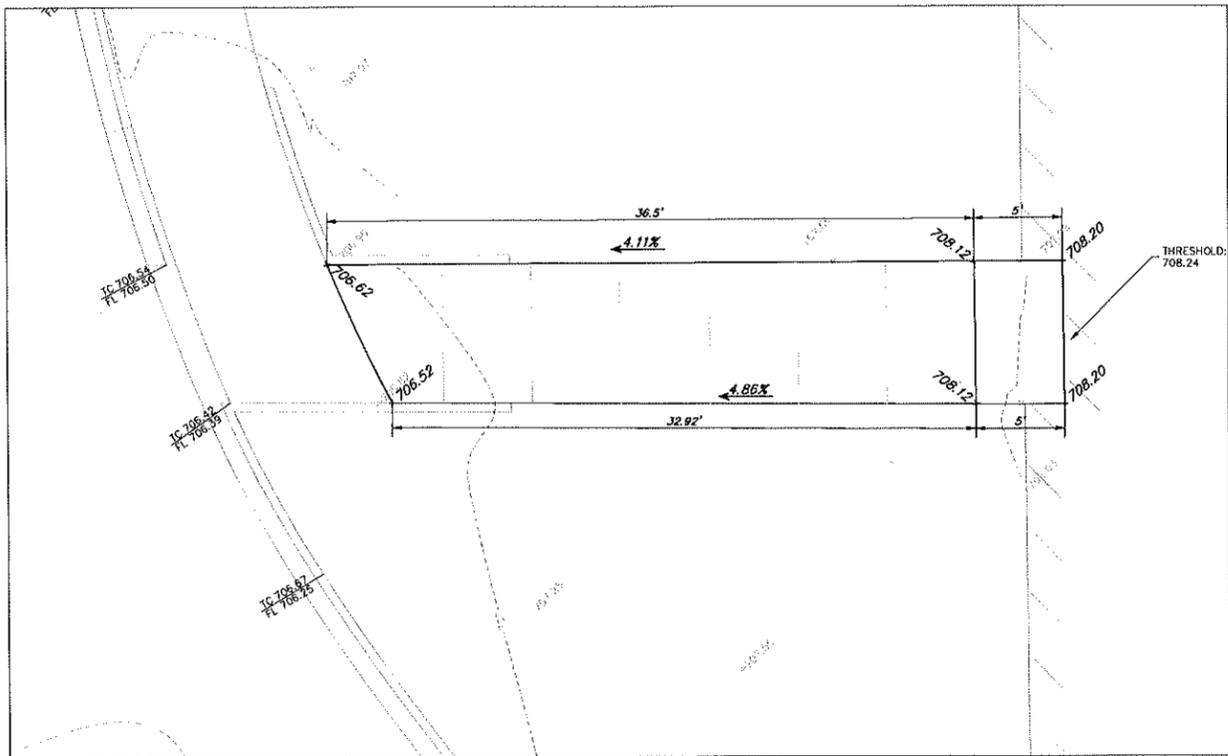
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GRADING PLAN - DETENTION BASIN
HAWTHORN ELEMENTARY SCHOOL SOUTH
HAWTHORN SCHOOL DISTRICT #73
VILLAGE OF VERNON HILLS, ILLINOIS

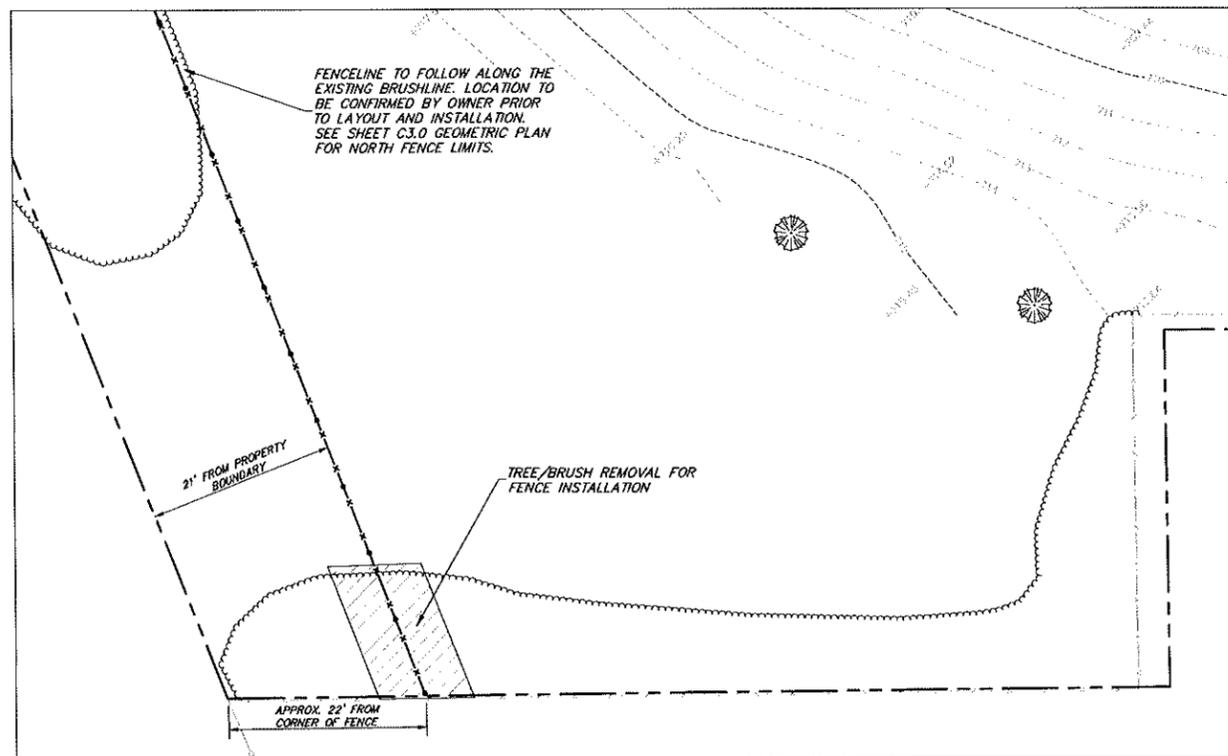
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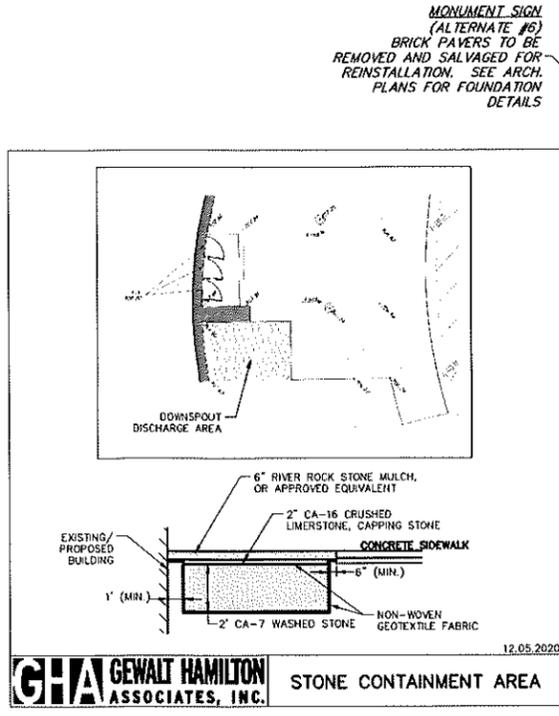
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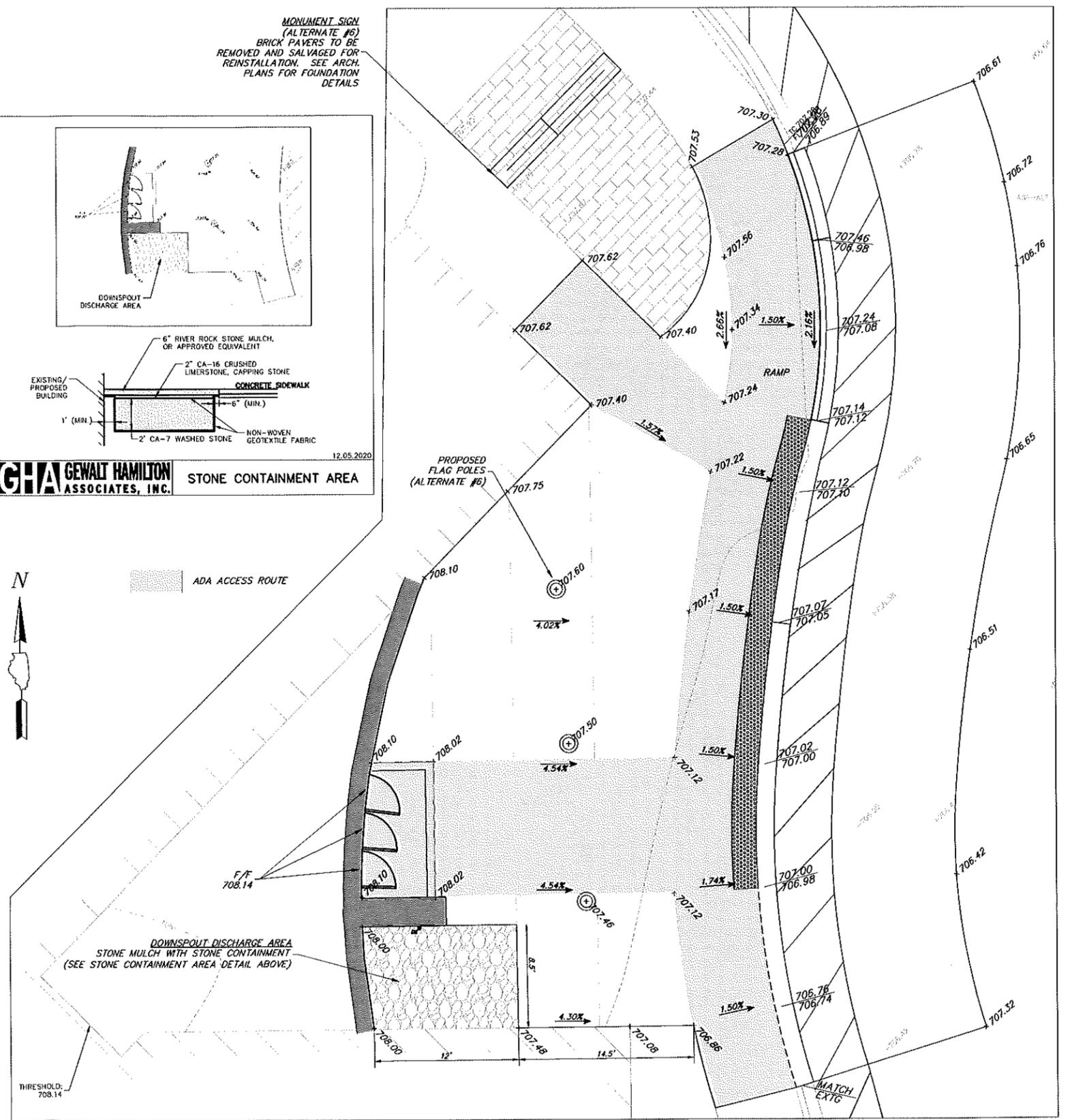
SOUTH SIDEWALK REMOVAL & REPLACEMENT - ADA COMPLIANCE - ALTERNATE #2 SCALE: 1"=5'



SOUTHWEST CHAINLINK FENCE - ALTERNATE #2 SCALE: 1"=10'



STONE CONTAINMENT AREA 12.05.2020



EAST ENTRANCE AREA - ALTERNATE #1 SCALE: 1"=5'

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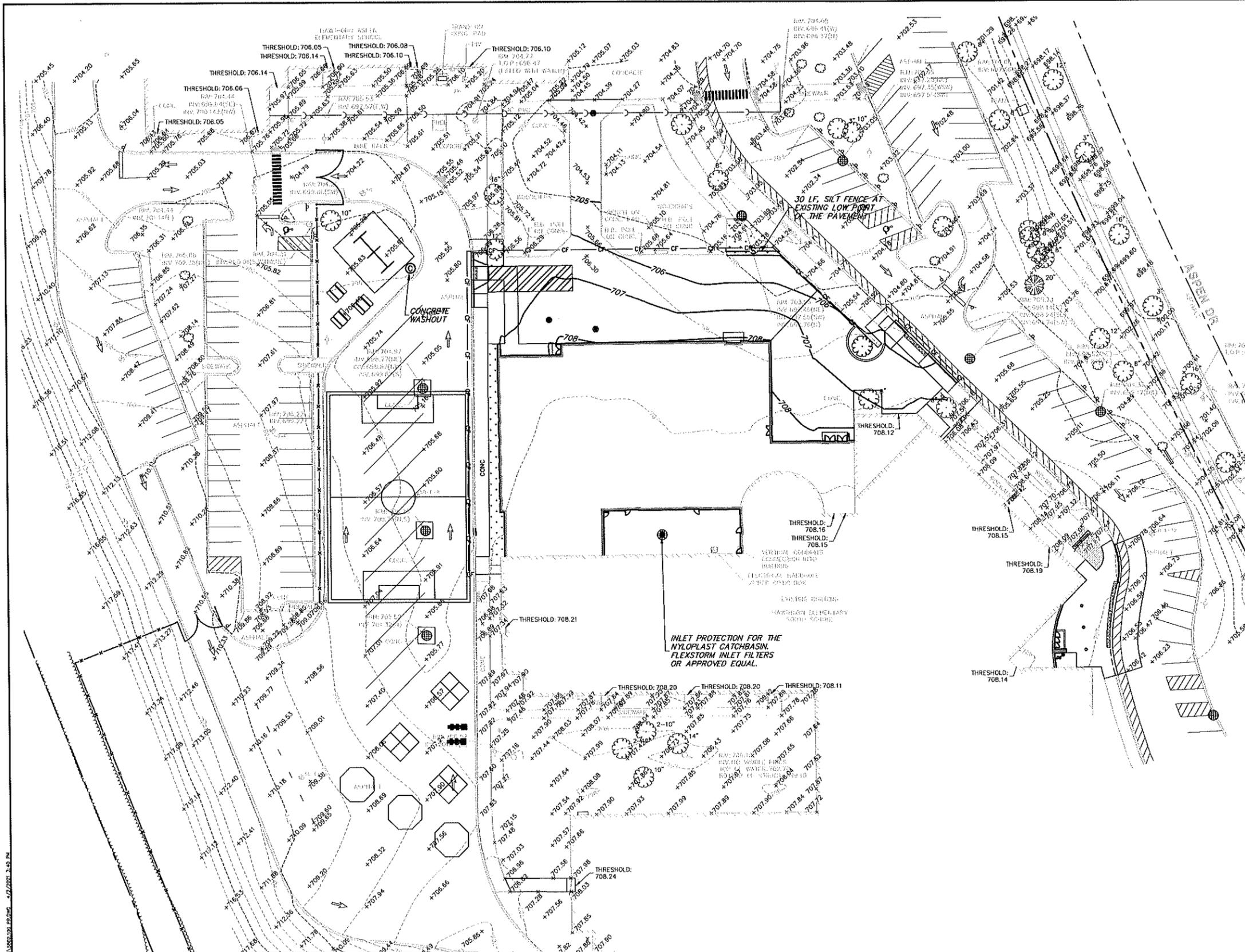
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GRADING PLAN - ENLARGEMENTS
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HAWTHORN SCHOOL DISTRICT #73
VILLAGE OF VERNON HILLS, ILLINOIS

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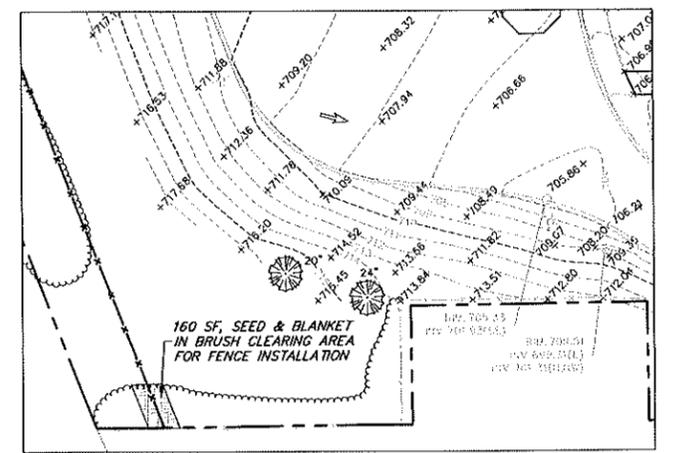
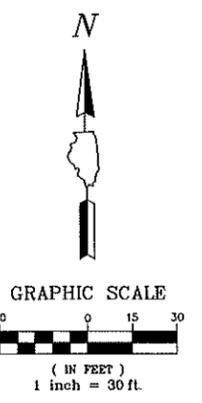
SESC LEGEND

- SOD/LANDSCAPE RESTORATION
- ROCK CONSTRUCTION ENTRANCE (15'x50', 8" CA-1 OR 3" STONE)
- SILT FENCE INSTALLATION
- CONSTRUCTION FENCE INSTALLATION
- STORM SEWER INLET PROTECTION: - INLET FILTER BASKET
- INLET FILTER BASKET & COIR LOG
- PORTABLE RESTROOM FACILITY
- CONCRETE WASHOUT
- TOPSOIL FURNISH AND PLACE, VARIABLE DEPTH SEEDING, CLASS 4 EROSION CONTROL BLANKET NAG S75 (4:1 SLOPES), NAG S150 (3:1 SLOPES OF STEEPER)

NOTE:

MAINTENANCE OF THE EROSION CONTROL MEASURES IS THE RESPONSIBILITY OF THE INSTALLING CONTRACTOR. MAINTENANCE RESPONSIBILITIES INCLUDE, BUT IS NOT LIMITED TO:

1. INLET BASKET CLEANING AND/OR REPLACEMENT.
2. COIR LOG INLET PROTECTION. REMOVAL AND REPLACEMENT WHEN COIR LOGS BECOME IMPACTED WITH SEDIMENT.
3. SILT FENCE REPAIR/REPLACEMENT. REPAIRS TO THE SILT FENCE TO FOLLOW THE INITIAL INSTALLATION DETAIL ON SHEET C6.2.
4. CONSTRUCTION ENTRANCE STONE. IF TRACK-OUT STARTS TO OCCUR ONTO THE ADJACENT PAVEMENT DUE TO INUNDATION OF THE AGGREGATE WITH SITE SPOILS, THE STONE TO BE REMOVED AND REPLACED.
5. IF TRACK-OUT FROM THE WORK AREA ONTO THE ADJACENT ASPHALT PARKING LOT DOES OCCUR, DEBRIS IS TO BE REMOVED AT THE END OF EVERY WORK DAY.
6. IF DEWATERING IS REQUIRED IN ANY AREA OF WORK SITE, ALL DEWATERING SHALL BE THROUGH SEDIMENT FILTER BAGS, APPROVED BY THE ENGINEER. DEWATERING LOCATION TO BE CONFIRMED BY THE ENGINEER. NO SEDIMENT DISCHARGE IS TO BE ALLOWED INTO THE EXISTING STORM SEWER SYSTEM. CONCRETE WASHOUT. ALL CONCRETE WASHOUT IS TO BE COMPLETED WITHIN THE DESIGNATED WASHOUT BIN(S). REMOVAL AND REPLACEMENT OF THE WASHOUT IS TO BE DETERMINED BY THE PROJECT SUPERINTENDENT AND ENGINEER. NO CONCRETE CONSTRUCTION ACTIVITY IS TO OCCUR WITHOUT A FUNCTIONAL CONCRETE WASHOUT IN-PLACE.



SEE FENCE INSTALLATION RESTORATION AREA FOR DETAIL

FENCE INSTALL RESTORATION AREA

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SOIL EROSION & SEDIMENT CONTROL PLAN
HAWTHORN ELEMENTARY SCHOOL SOUTH
HAWTHORN SCHOOL DISTRICT #73
VILLAGE OF VERNON HILLS, ILLINOIS

NO.	BY	DATE	REVISION	NO.	BY	DATE	REVISION
6	ALC	04/02/21	ISSUED FOR CONSTRUCTION SET				
5	ALC	03/15/21	VILLAGE RESUBMITTAL SET #3				
4	ALC	03/03/21	VILLAGE RESUBMITTAL SET #2				
3	ALC	12/17/20	IFB ADDENDUM #3				

RLE 5802.100 PR.dwg	SHEET NUMBER
DRAWN BY: ALC DATE: 12/07/20	GHA PROJECT # 5802.000
CHECKED BY: DED DATE: 12/07/20	SCALE: 1"=30'
	C6.0 OF 15 SHEETS



STORMWATER MANAGEMENT COMMISSION

TYPICAL CONSTRUCTION SEQUENCING

- 1.) Installation of soil erosion and sediment control SE/SC measures
a.) Selective vegetation removal for silt fence installation
b.) Silt fence installation
c.) Construction fencing around areas not to be disturbed
d.) Stabilized construction entrance
2.) Tree removal where necessary (clear & grub)
3.) Construct sediment trapping devices (sediment traps, basins...)
4.) Construct detention facilities and outlet control structure with restrictor & temporary perforated riser
5.) Strip topsoil, stockpile topsoil and grade site
6.) Temporarily stabilize topsoil stockpiles (seed and silt fence around toe of slope)
7.) Install storm sewer, sanitary sewer, water and associated inlet & outlet protection
8.) Permanently stabilize detention basins with seed and erosion control blanket
9.) Temporarily stabilize all areas including lots that have reached temporary grade
10.) Install roadways
11.) Permanently stabilize all out lots
12.) Install structures and grade individual lots
13.) Permanently stabilize lots
14.) Remove all temporary SE/SC measures after the site is stabilized with vegetation
* Soil erosion and sediment control maintenance must occur every two weeks and after every 1/2 or greater rainfall event

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LAKE COUNTY STORMWATER MANAGEMENT COMMISSION
SOIL EROSION AND SEDIMENT CONTROL CONSTRUCTION NOTES

- A. SEDIMENT CONTROL MEASURES SHALL BE INSTALLED PRIOR TO THE COMMENCEMENT OF HYDROLOGIC DISTURBANCE OF UPLAND AREAS.
B. FOR THOSE DEVELOPMENTS THAT REQUIRE A DESIGNATED EROSION CONTROL INSPECTOR (DECI), INSPECTIONS AND DOCUMENTATION SHALL BE PERFORMED, AT A MINIMUM:
* UPON COMPLETION OF SEDIMENT AND RUNOFF CONTROL MEASURES (INCLUDING PERIMETER CONTROLS AND DIVERSIONS), PRIOR TO PROCEEDING WITH ANY OTHER EARTH DISTURBANCE OR GRADING.
* AFTER EVERY SEVEN (7) CALENDAR DAYS OR STORM EVENT WITH GREATER THAN 0.5 INCH OF RAINFALL OR LIQUID EQUIVALENT PRECIPITATION.
C. 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 PERMITTEE SHALL PLAN FOR APPROPRIATE SOIL EROSION AND SEDIMENT CONTROL MEASURES.
D. A STABILIZED MAT OF CRUSHED STONE MEETING IDOT GRADATION CA-1 UNDERLAIN WITH FILTER FABRIC AND IN ACCORDANCE WITH THE ILLINOIS URBAN MANUAL, OR OTHER APPROPRIATE MEASURES AS APPROVED BY THE ENFORCEMENT OFFICER, 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.
E. TEMPORARY DIVERSIONS SHALL BE CONSTRUCTED AS NECESSARY TO DIRECT ALL RUNOFF FROM HYDROLOGICALLY DISTURBED AREAS TO AN APPROPRIATE SEDIMENT TRAP OR BASIN.
F. DISTURBED AREAS SHALL BE STABILIZED WITH TEMPORARY OR PERMANENT MEASURES WITHIN SEVEN (7) CALENDAR DAYS FOLLOWING THE END OF ACTIVE HYDROLOGIC DISTURBANCE OR REDISTURBANCE.
G. ALL STOCKPILES SHALL HAVE APPROPRIATE MEASURES TO PREVENT EROSION. STOCKPILES SHALL NOT BE PLACED IN FLOOD PRONE AREAS OR WETLANDS AND DESIGNATED BUFFERS.
H. SLOPES STEEPER THAN 3H:1V SHALL BE STABILIZED WITH APPROPRIATE MEASURES AS APPROVED BY THE ENFORCEMENT OFFICER.
I. APPROPRIATE EROSION CONTROL BLANKET SHALL BE INSTALLED ON ALL INTERIOR DETENTION BASIN SIDE SLOPES BETWEEN THE NORMAL WATER LEVEL AND HIGH WATER LEVEL.
J. STORM SEWERS THAT ARE OR WILL BE FUNCTIONING DURING CONSTRUCTION SHALL BE PROTECTED BY AN APPROPRIATE SEDIMENT CONTROL MEASURE.
K. IF DEWATERING SERVICES ARE USED, ADJOINING PROPERTIES AND DISCHARGE LOCATIONS SHALL BE PROTECTED FROM EROSION AND SEDIMENTATION. DISCHARGES SHALL BE ROUTED THROUGH AN APPROVED ANIONIC POLYMER DEWATERING SYSTEM OR A SIMILAR MEASURE AS APPROVED BY THE ENFORCEMENT OFFICER. DEWATERING SYSTEMS SHOULD BE INSPECTED DAILY DURING OPERATIONAL PERIODS. THE ENFORCEMENT OFFICER, OR APPROVED REPRESENTATIVE, MUST BE PRESENT AT THE COMMENCEMENT OF DEWATERING ACTIVITIES.
L. IF INSTALLED SOIL EROSION AND SEDIMENT CONTROL MEASURES DO NOT MINIMIZE SEDIMENT LEAVING THE DEVELOPMENT SITE, ADDITIONAL MEASURES SUCH AS ANIONIC POLYMERS OR FILTRATION SYSTEMS MAY BE REQUIRED BY THE ENFORCEMENT OFFICER.
M. ALL TEMPORARY EROSION CONTROL MEASURES SHALL BE MAINTAINED AND REPAIRED AS NEEDED. THE PROPERTY OWNER SHALL BE ULTIMATELY RESPONSIBLE FOR MAINTENANCE AND REPAIR.
N. ALL TEMPORARY SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN 30 DAYS AFTER FINAL SITE STABILIZATION IS ACHIEVED AND APPROVED BY THE VILLAGE ENGINEER.
O. THE EROSION CONTROL MEASURES INDICATED ON THE PLANS ARE THE MINIMUM REQUIREMENTS. ADDITIONAL MEASURES MAY BE REQUIRED, AS DIRECTED BY THE ENGINEER, ENFORCEMENT OFFICER, OR OTHER GOVERNING AGENCY.

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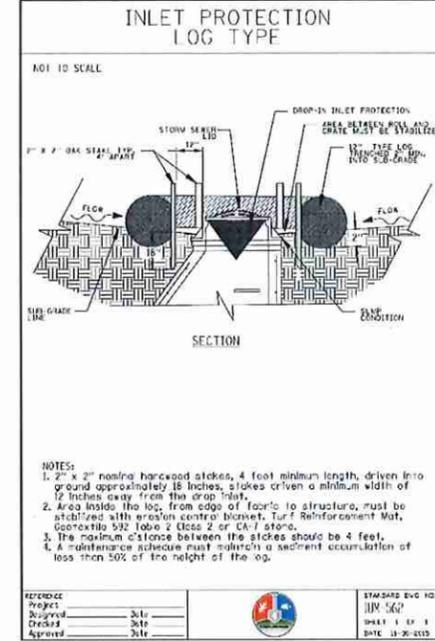
Lake County Public Works Department
Standard Record Drawing Requirements
May 22, 2019

SANITARY SEWER IMPROVEMENTS

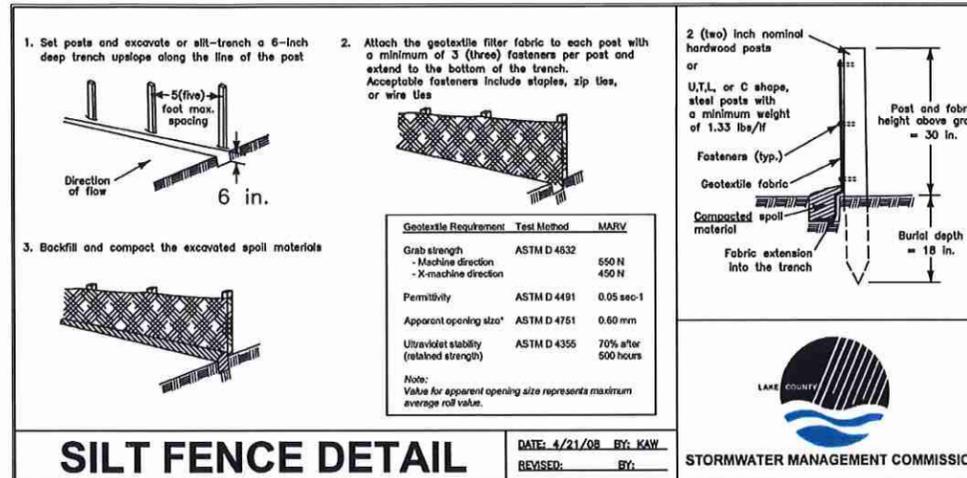
- 1. ALL MANHOLES SHALL BE NUMBERED WITH CORRECTED RIM AND INVERT ELEVATIONS PROVIDED AND SHALL BE LOCATED FROM TWO (2) ABOVE GROUND, PERMANENT STRUCTURES OR GPS POINT.
2. ALL PIPES SHALL INCLUDE LINEAL FOOTAGE BETWEEN CENTER OF MANHOLES, DIAMETER OF PIPE, MATERIAL TYPE, AND CORRECTED SLOPE.
3. ALL SEWER SERVICES SHALL BE IDENTIFIED BY STATIONING FROM THE NEAREST DOWNSTREAM MANHOLE. INFORMATION REQUIRED INCLUDES LINEAL FOOTAGE OF LATERAL, LENGTH OF RISER, PIPE DIAMETER, AND PIPE MATERIAL. THE UPSTREAM END OF ALL NON-CONNECTED SEWER STUBS SHALL BE LOCATED FROM TWO (2) ABOVE GROUND, PERMANENT STRUCTURES OR GPS POINT AND HAVE THE DEPTH OF THE STUB IDENTIFIED.

WATER MAIN IMPROVEMENTS

- 1. ALL VALVE VAULTS OR VALVE BOXES ON PUBLIC LINES SHALL BE NUMBERED AND THEIR LOCATIONS TIED TO TWO (2) ABOVE GROUND, PERMANENT STRUCTURES OR GPS POINT.
2. ALL WATER MAINS SHALL BE IDENTIFIED BY PIPE DIAMETER AND MATERIAL TYPE. EACH BEND AND TEE SHALL BE TIED TO TWO (2) ABOVE GROUND, PERMANENT STRUCTURES OR GPS POINT. THE PIPE SHALL BE TIED TO A PERMANENT STRUCTURE AT A MINIMUM OF 100' INTERVALS.
3. ALL WATER SERVICES SHALL BE IDENTIFIED BY PIPE DIAMETER, PIPE MATERIAL, AND LOCATION OF B-BOX. THE LOCATION OF THE B-BOX SHALL BE TIED TO TWO (2) ABOVE GROUND, PERMANENT STRUCTURES OR GPS POINT.
4. AN AS-BUILT WATER MAIN PROFILE SHALL BE PROVIDED WITH TOP OF PIPE ELEVATIONS AT KEY LOCATIONS (BENDS, PIPE CROSSINGS, VAULTS, DEFLECTIONS, ETC.) AND DEPTH BELOW FINISHED GRADE.



NOTES:
1. 2" x 2" roofing hardwood stakes, 4 foot minimum length, driven into ground approximately 18 inches, stakes driven a minimum width of 12 inches away from the drop inlet.
2. Area inside the log, from edge of fabric to structure, must be stabilized with erosion control blanket, turf reinforcement mat, Geotextile 5/8" to 2" Class 2 or CA-1 stone.
3. The maximum distance between the stakes shall be 4 feet.
4. A maintenance schedule must include a minimum occurrence of less than 50% of the height of the log.

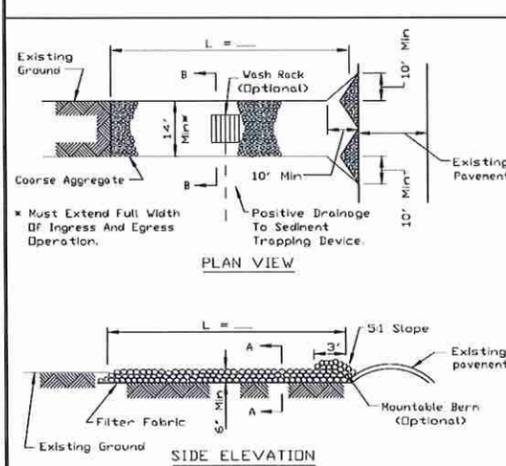


SILT FENCE DETAIL

DATE: 4/21/08 BY: KAW
REVISED: BY:

STORMWATER MANAGEMENT COMMISSION

STABILIZED CONSTRUCTION ENTRANCE PLAN



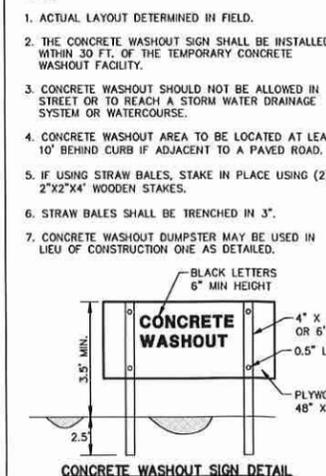
- NOTES:
1. Filter fabric shall meet the requirements of material specification 592 GEOTEXTILE, Table 1 or 2, Class I, II or IV and shall be placed over the cleared area prior to the placing of rock.
2. Rock or reclaimed concrete shall meet one of the following IDOT coarse aggregate gradation, CA-1, CA-2, CA-3 or CA-4 and be placed according to construction specification 25 ROCKFILL using placement Method 1 and Class III compaction.
3. Any drainage facilities required because of washing shall be constructed according to manufacturer's specifications.
4. If wash rocks are used they shall be installed according to the manufacturer's specifications.

REFERENCE: Project, Date, Design, Date, Checked, Date, Approved, Date



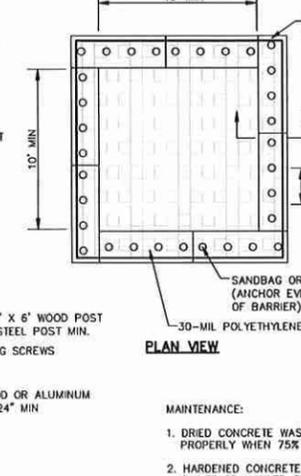
STANDARD ENG. NO. IL-630 SHEET 1 OF 2 DATE 8-18-94

CONCRETE WASHOUT SIGN DETAIL (OR EQUIVALENT)



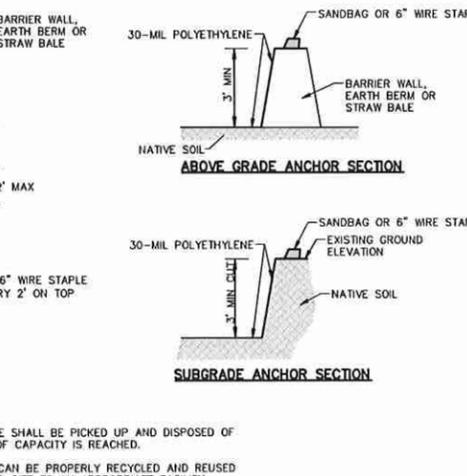
CONCRETE WASHOUT SIGN DETAIL (OR EQUIVALENT)

CONCRETE WASHOUT



CONCRETE WASHOUT

CONCRETE WASHOUT

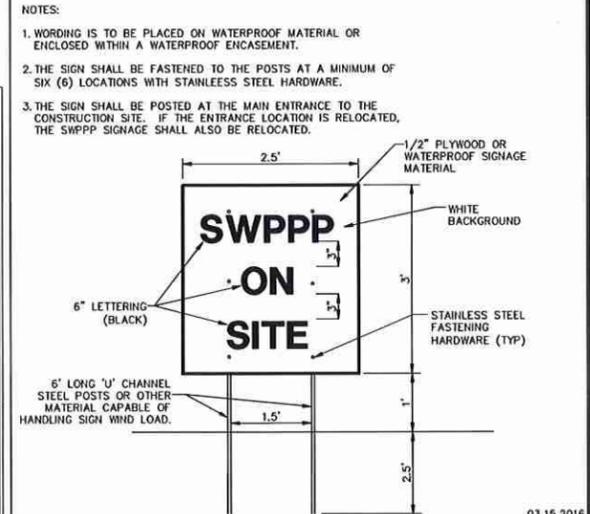


CONCRETE WASHOUT

Table with columns for Stabilization Type (Permanent Seeding, Dormant Seeding, Temporary Seeding, Sodding, Mulching) and months (JAN to DEC). Rows show seeding schedules for each type.

A = KENTUCKY BLUEGRASS @ 90 LBS./AC. MIXED WITH PERENNIAL RYEGRASS @ 30 LBS./AC.
B = KENTUCKY BLUEGRASS @ 135 LBS./AC. MIXED WITH PERENNIAL RYEGRASS @ 45 LBS./AC.
C = SPRING OATS @ 100 LBS./AC.
D = WHEAT OR CEREAL RYE @ 150 LBS./AC.
E = SOD
F = STRAW MULCH (HYDROMULCH OR USE STRAW BLANKET) @ 2 TONS/AC.
XXX = IRRIGATION NEEDED
IRRIGATION SHOULD BE PROVIDED AS NECESSARY TO THOROUGHLY ESTABLISH INTENDED GROWTH.
NOTE:
SPRAYED ON PRODUCTS CANNOT BE USED NOV.-FEB.

TYPICAL SOIL PROTECTION CHART



SWPPP SIGNAGE

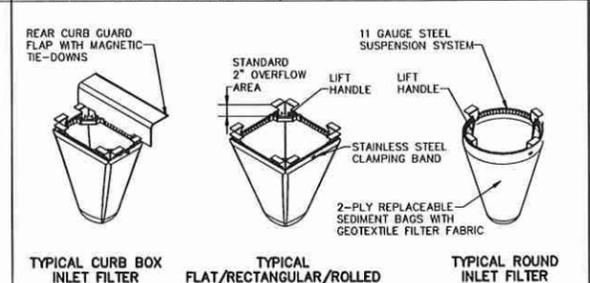


Table with columns for Material Property, Test Method, Value (min. ave.), Non-Woven, Woven, Mono. Rows include Grab Tensile, Puncture Strength, Tear, UV Resistance, App. Open Size (AOS), Permeability, Water Flow Rate, Polyester Outer Reinforcement Bag Specifications, Weight, Thickness, and From Construction.

INLET FILTER BASKET DETAIL

Project information including GHA GEWALT HAMILTON ASSOCIATES, INC., FILE: 5802.100 DT.dwg, DRAWN BY: ALC, DATE: 12/07/20, CHECKED BY: DED, DATE: 12/07/20, SHEET NUMBER: C6.2 OF 15 SHEETS.

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SOIL EROSION AND SEDIMENT CONTROL DETAILS
HAWTHORN ELEMENTARY SCHOOL SOUTH
HAWTHORN SCHOOL DISTRICT #73
VILLAGE OF VERNON HILLS, ILLINOIS

Revision table with columns for NO., BY, DATE, REVISION, NO., BY, DATE, REVISION. Includes entries for ISSUED FOR CONSTRUCTION SET, VILLAGE RESUBMITTAL SET #3, VILLAGE RESUBMITTAL SET #2, and IFB ADDENDUM #3.

GENERAL NOTES

- ALL CONSTRUCTION SHALL BE PERFORMED ACCORDING TO THE ILLINOIS DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" LATEST EDITION, THE "SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS" LATEST EDITION, THE "STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS" LATEST EDITION, THE DETAILS IN THESE PLANS, THE CONTRACT DOCUMENTS, ALL APPLICABLE REQUIREMENTS OF THE ILLINOIS DEPARTMENT OF TRANSPORTATION, THE IEPA AND ORDINANCES OF AUTHORITIES HAVING JURISDICTION AND ALL ADDENDA THERETO.
- EASEMENTS FOR THE EXISTING UTILITIES, BOTH PUBLIC AND PRIVATE AND UTILITIES WITHIN PUBLIC RIGHTS-OF-WAY ARE SHOWN ON THE PLANS ACCORDING TO AVAILABLE RECORDS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE EXACT LOCATION IN THE FIELD OF THESE UTILITY LINES AND THEIR PROTECTION FROM DAMAGE DUE TO CONSTRUCTION OPERATIONS. IF EXISTING UTILITY LINES OF ANY NATURE ARE ENCOUNTERED WHICH CONFLICT WITH NEW CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY SO THAT THE CONFLICT MAY BE RESOLVED.
- WHENEVER, DURING CONSTRUCTION OPERATIONS, ANY LOOSE MATERIAL IS DEPOSITED IN THE FLOW LINE OF GUTTERS, DRAINAGE STRUCTURES, DITCHES, ETC. SUCH THAT THE NATURAL FLOW LINE OF WATER IS OBSTRUCTED, THE LOOSE MATERIAL WILL BE REMOVED AT THE CLOSE OF EACH WORKING DAY. AT THE CONCLUSION OF CONSTRUCTION OPERATIONS, ALL DRAINAGE STRUCTURES AND FLOW LINES SHALL BE FREE FROM DIRT AND DEBRIS. THIS WORK SHALL BE CONSIDERED INCLUDED IN THE CONTRACT. THE CONTRACTOR'S FAILURE TO PROVIDE THE ABOVE WILL PRECLUDE ANY POSSIBLE ADDED COMPENSATION REQUESTED DUE TO DELAYS OR UNSUITABLE MATERIALS CREATED AS A RESULT THEREOF.
- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS AFFECTING THEIR WORK WITH THE ACTUAL CONDITIONS AT THE JOB SITE PRIOR TO ORDERING MATERIALS. IN ADDITION, THE CONTRACTOR MUST VERIFY THE LINE AND GRADES. IF THERE ARE ANY DISCREPANCIES FROM WHAT IS SHOWN ON THE CONSTRUCTION PLANS, STANDARD SPECIFICATIONS AND/OR SPECIAL DETAILS, THE CONTRACTOR SHALL SECURE WRITTEN INSTRUCTION FROM THE ENGINEER PRIOR TO PROCEEDING WITH ANY PART OF THE WORK AFFECTED BY OMISSION OR DISCREPANCIES. FAILING TO SECURE SUCH INSTRUCTION, THE CONTRACTOR WILL BE CONSIDERED TO HAVE PROCEEDED AT HIS/HER OWN RISK AND EXPENSE AND NO ADDITIONAL COMPENSATION WILL BE PROVIDED FOR ANY COSTS INCURRED.
- ALL PAVEMENT DIMENSIONS ARE SHOWN TO EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.
- WHERE SECTION OR SUBSECTION MONUMENTS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE THE MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL CAREFULLY PRESERVE ALL PROPERTY MARKS AND MONUMENTS UNTIL THE OWNER, AUTHORIZED SURVEYOR OR AGENT HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION.
- THE CONTRACTOR SHALL NOTIFY THE ENGINEER AT LEAST 72 HOURS PRIOR TO BEGINNING WORK.
- IF DURING CONSTRUCTION THE CONTRACTOR ENCOUNTERS OR OTHERWISE BECOMES AWARE OF ANY SEWERS OR UNDERDRAINS OTHER THAN THOSE SHOWN ON THE PLANS, HE/SHE SHALL INFORM THE ENGINEER, WHO SHALL DIRECT THE WORK NECESSARY TO MAINTAIN OR REPLACE THE FACILITIES IN SERVICE AND TO PROTECT THEM FROM DAMAGE DURING CONSTRUCTION IF MAINTAINED. EXISTING FACILITIES TO BE MAINTAINED THAT ARE DAMAGED BECAUSE OF NON-COMPLIANCE WITH THIS PROVISION SHALL BE REPLACED AT THE CONTRACTOR'S OWN EXPENSE.
- THE CONTRACTOR SHALL PROVIDE TEMPORARY TOILET FACILITIES AND HAND SANITIZING STATIONS FOR THE USE OF ALL THE CONTRACTORS PERSONNEL EMPLOYED ON THE WORK SITE. THE FACILITIES SHALL BE MAINTAINED IN PROPER SANITARY CONDITION THROUGHOUT THE PROJECT. THE LOCATION OF THE TEMPORARY FACILITIES SHALL BE APPROVED BY THE ENGINEER.
- THE CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH THE NPDES PERMIT AND SWPPP MANUAL. IF NO NPDES PERMIT OR SWPPP MANUAL IS NEEDED FOR THE PROJECT THE CONTRACTOR SHALL PERFORM SOIL EROSION SEDIMENT CONTROL BEST PRACTICES OR AS DIRECTED BY THE OWNER TO PREVENT ILLICIT DISCHARGES FROM THE SITE.

UTILITY NOTES

- UNDERGROUND WORK SHALL INCLUDE TRENCHING, DISPOSAL OF EXCESS MATERIAL, DEWATERING, INSTALLATION OF PIPE, CASTINGS, STRUCTURES, BACKFILLING OF TRENCHES AND COMPACTION, AND TESTING AS SHOWN ON THE CONSTRUCTION PLANS. FITTINGS AND ACCESSORIES NECESSARY TO COMPLETE THE WORK MAY NOT BE SPECIFIED BUT SHALL BE CONSIDERED AS INCLUDED TO THE COST OF THE CONTRACT. ALL SEWER SHALL BE INSTALLED USING A LASER AND BEGIN AT THE DOWNSTREAM END.
- THE CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH (225 ILCS 320)/THE ILLINOIS PLUMBING LICENSING LAW FOR THE INSTALLATION PLUMBING AND PLUMBING SYSTEMS AS DEFINED THEREIN.
- MACHINE CORE ALL CONNECTIONS TO EXISTING STRUCTURES USING A CORE DRILL. HAMMERING OR SAWING OF STRUCTURES WILL NOT BE ALLOWED.
- SANITARY SERVICE CONNECTIONS TO NEW SEWERS SHALL BE MADE WITH WYE BRANCHES. WYE BRANCHES SHALL BE FACTORY MANUFACTURED PERMANENTLY AFFIXED TO THE MAIN SEWER. TEE BRANCHES ARE NOT ALLOWED.
- ALL CONNECTIONS TO EXISTING SANITARY MANHOLES SHALL BE INSTALLED WITH A NEOPRENE BOOT SECURED WITH DOUBLE STAINLESS STEEL STRAPS MEETING THE REQUIREMENTS OF ASTM C-923.
- ALL CONNECTIONS TO EXISTING OR DISSIMILAR STORM/SANITARY LINES SHALL BE DONE WITH STAINLESS STEEL NON-SHEAR COUPLINGS.
- STONE BEDDING AND BACKFILL SHALL BE OMITTED FOR A DISTANCE OF 15 FEET UP AND DOWNSTREAM OF SEWERS DRAINING TO OR FROM PONDS OR STREAMS. THE REPLACED BEDDING SHALL BE SILTY CLAY SOIL MECHANICALLY COMPACTED TO 90% MODIFIED PROCTOR DENSITY. THE USE OF PERMEABLE SOILS WILL NOT BE PERMITTED.
- ALL WATER MAIN SHALL HAVE MECHANICAL RESTRAINED TYPE JOINTS AT ALL CONNECTIONS AND FITTINGS. IN ADDITION, ALL HARDWARE SHALL BE STAINLESS STEEL.
- THRUST BLOCKING SHALL BE PROVIDED ON WATER MAIN AT ALL BENDS, TEES, ELBOWS, ETC. INDIVIDUAL INSPECTION FOR ALL THRUST BLOCKING IS REQUIRED. THRUST BLOCKING SHALL BE POURED IN PLACE CONCRETE. PRECAST BLOCKS MAY BE USED AS APPROVED BY THE ENGINEER IN THE FIELD.
- ALL FLOOR DRAINS SHALL DISCHARGE TO THE SANITARY SEWER. ALL DOWNSPOUTS, SIDE YARD DRAINS, AND OUTSIDE DRAINS SHALL DISCHARGE TO THE STORM SEWER SYSTEM. FOOTING DRAINS SHALL FIRST DRAIN TO A SUMP PIT.
- BUILDING STORM SEWER SERVICE PIPE SHALL NOT BE LESS THAN THE DIAMETER OF THE PLUMBING PIPE FROM THE BUILDING, BUT NOT LESS THAN 6 INCHES. THE PIPE SHALL HAVE A MINIMUM SLOPE OF 1/8-INCH PER FOOT, BUT NOT MORE THAN 1/2-INCH PER FOOT. CHANGES OF DIRECTION OF SERVICE PIPE SHALL BE MADE WITH COMBINATIONS OF 22-1/2 DEGREE BENDS WHEREVER PRACTICABLE, WITH NOT LESS THAN 2 FEET OF STRAIGHT PIPE BETWEEN SUCH BENDS. RIGHT ANGLE (90 DEGREE) BENDS WILL NOT BE ALLOWED. WHEN A SERVICE LINE EXCEEDS 100 FEET IN LENGTH, A CLEANOUT SHALL BE PROVIDED AT A LOCATION DESIGNATED BY THE ENGINEER. THE CLEANOUT SHALL BE PROPERLY SEALED, WITH THE TOP OF THE PLUGGED RISER FLUSH WITH FINISHED GRADE.

PROJECT SPECIFIC NOTES

- ALL WORK PERFORMED UNDER THIS CONTRACT SHALL BE GUARANTEED BY THE CONTRACTOR AND HIS SURETY FOR A PERIOD OF 12 MONTHS FROM THE DATE OF INITIAL ACCEPTANCE OF THE WORK BY THE OWNER AGAINST ALL DEFECTS IN MATERIALS AND WORKMANSHIP OF WHATEVER NATURE.
- ALL CONSTRUCTION WILL BE INSPECTED BY THE OWNER'S REPRESENTATIVE. ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE MUNICIPALITY AS WELL AS THE STANDARD SPECIFICATIONS.
- ALL PUBLIC WATER MAINS AND SANITARY SEWER MAINS SHALL BE ACCEPTED BY THE LAKE COUNTY DEPARTMENT OF PUBLIC WORKS DEPARTMENT AND VILLAGE OF VERNON HILLS ENGINEER. ALL WATER MAIN AND SANITARY SEWER TESTING SHALL BE PERFORMED TO THE REQUIREMENTS OF THE LAKE COUNTY DEPARTMENT OF PUBLIC WORKS STANDARDS.
- THE SEWER AND WATER CONTRACTOR SHALL BE REQUIRED TO BE LICENSED AND BONDED WITH THE LAKE COUNTY DEPARTMENT OF PUBLIC WORKS DEPARTMENT BEFORE WORK IS STARTED.
- CONTRACTOR SHALL NOTIFY THE VILLAGE OF VERNON HILLS ENGINEERING DIVISION (847-367-3726), THE LAKE COUNTY DEPARTMENT OF PUBLIC WORKS (847-377-7500), AND THE PROJECT ENGINEER (847-478-9700) AT LEAST 72 HOURS PRIOR TO BEGINNING ANY WORK ON THIS PROJECT.
- THE CONTRACTOR SHALL INDEMNIFY THE OWNER, ENGINEER, THE VILLAGE OF VERNON HILLS AND THEIR AGENTS AND THE LAKE COUNTY PUBLIC WORKS DEPARTMENT FROM ALL LIABILITY INVOLVED IN CONSTRUCTION, INSTALLATION AND TESTING OF THE WORK ON THIS PROJECT.
- THE CONTRACTOR MUST CARRY INSURANCE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS. ALL OFFICIALS, EMPLOYEES AND AGENTS OF GEWALT HAMILTON ASSOCIATES MUST BE LISTED AS ADDITIONAL INSURED.
- ALL ELEVATIONS ARE ON NAVD 88 VERTICAL DATUM.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF ALL TRAFFIC CONTROL TO ADEQUATELY INFORM AND PROTECT THE PUBLIC OF ALL CONSTRUCTION OPERATIONS.
- STOCKPILING MATERIAL WITHIN THE 100 YEAR FLOOD PLAIN AND OR THE FLOODWAY IS STRICTLY PROHIBITED
- ALL PAVEMENT AND BUILDING SUBGRADE SHALL BE COMPACTED TO 95% MODIFIED PROCTOR DENSITY (ASTM D-1557). ALL SUBGRADE IN LAWN AREAS SHALL BE COMPACTED TO 90% MODIFIED PROCTOR DENSITY (ASTM D-1557). TOPSOIL AND SUBGRADE 6" BELOW TOPSOIL SHALL BE COMPACTED TO 80% STANDARD PROCTOR DENSITY (ASTM D-698).
- PRIOR TO PLACEMENT OF FABRIC AND STONE, THE SUBGRADE SHALL BE PROOF-ROLLED IN THE PRESENCE OF THE ENGINEER. PROOF-ROLLING SHALL BE DONE USING A THREE AXLE DUMP TRUCK TOGETHER WITH LOAD WEIGHING AT LEAST TWENTY-FIVE (25) TONS. THE LOAD SHALL BE UNIFORMLY PLACED IN THE DUMP BODY. ALL DEFICIENCIES SHALL BE REPAIRED AND RE-PROOF-ROLLED UNTIL FOUND ACCEPTABLE BY THE VILLAGE ENGINEER AND PROJECT ENGINEER.
- ALL STONE USED ON THE PROJECT SHALL BE CRUSHED LIMESTONE UNLESS SPECIFICALLY NOTED OTHERWISE.
- ALL CONNECTIONS TO EXISTING STORM MANHOLES OR PIPES SHALL BE INSTALLED IN ACCORDANCE TO VILLAGE EXHIBIT NO. 43.
- ALL CONCRETE SHALL HAVE A LIGHT BROOM FINISH APPLIED WITHIN 1 HOUR OF FINAL STRIKING.
- ALL CONCRETE SHALL CONSIST OF PORTLAND CEMENT CONCRETE, 4" SLUMP, 6.1 BAG MIX AND AIR ENTRAINMENT OF NOT LESS THAN FIVE (5%) OR MORE THAN EIGHT (8%). CONCRETE SHALL BE A MINIMUM COMPRESSIVE STRENGTH (4000PSI) AT TWENTY EIGHT (28) DAYS. FLYASH MAY NOT BE USED IN THE CONCRETE MIX.
- ALL CONCRETE SHALL HAVE A WHITE, IDOT TYPE 3 CURING COMPOUND APPLIED TO THE SURFACE WITHIN 1 HOUR OF FINAL STRIKING AT THE MANUFACTURER RECOMMENDED APPLICATION RATE.
- 3/4" THICK PRE-MOLDED FIBER EXPANSION JOINTS WITH 2, 3/4" x 18" PLAIN ROUND, STEEL DOWEL BARS SHALL BE INSTALLED IN ALL CURBS AT (60") SIXTY FOOT INTERVALS AND AT ALL P.C.'S, P.T.'S AND CURB RETURNS. ALTERNATE ENDS OF THE DOWEL BARS SHALL BE GREASED AND FITTED WITH METAL EXPANSION TUBES. ALL EXPANSION JOINTS MUST BE FREE OF CONCRETE FOR FULL DEPTH. CONTRACTION JOINTS SHALL BE TOOLED AT 15' INTERVALS.
- ALL DOWEL BARS AND TIE BARS SHALL BE EPOXY COATED UNLESS NOTED OTHERWISE.
- A FINAL PUNCHLIST INSPECTION OF THE SITE IMPROVEMENTS SHALL BE PERFORMED WITH THE VILLAGE OF VERNON HILLS ENGINEERING DIVISION AND THE LAKE COUNTY DEPARTMENT OF PUBLIC WORKS BEFORE FINAL PAVEMENT SURFACE CAN BE PLACED. ALL DEFICIENCIES SHALL BE CORRECTED, AND AS-BUILT RECORD DRAWINGS SHALL BE REVIEWED TO CONFIRM NO FLAT OR BACK PITCHED PIPE REQUIRE CORRECTION.

SPECIAL PROVISIONS

CLEAN CONSTRUCTION AND DEMOLITION DEBRIS (CCDD) MATERIAL DISPOSAL

WORK UNDER THIS ITEM 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 NECESSARY DOCUMENTS WITH THEIR CHOSEN CCDD OR OTHER SUITABLE DISPOSAL FACILITY. WRITTEN CONFIRMATION OF PRELIMINARY APPROVAL MUST BE PROVIDED FROM THE DISPOSAL FACILITY AND CONFIRMED BY THE OWNER AS ACCEPTABLE. ALL SURPLUS, CLEAN MATERIAL GENERATED FROM THE CONTRACTOR'S ACTIVITIES MUST BE DISPOSED OF AT AN IEPA PERMITTED CCDD OR OTHERWISE ACCEPTABLE FACILITY. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING DOCUMENTATION TO THE OWNER FOR EACH LOAD HAULED OFF-SITE SHOWING THE QUANTITY OF MATERIAL AND THE LOCATION THE MATERIAL WAS DISPOSED OF. NO EXTRA COMPENSATION WILL BE ALLOWED TO THE CONTRACTOR FOR ANY EXPENSES INCURRED COMPLYING WITH THESE REQUIREMENTS INCLUDING BUT NOT LIMITED TO: DELAYS, INCONVENIENCE, OR INTERRUPTIONS IN THE WORK RESULTING FROM COMPLIANCE WITH THESE REQUIREMENTS. ALL COSTS ASSOCIATED WITH MATERIAL TESTING AND DISPOSAL SHALL BE INCLUDED IN THE COST OF THE CONTRACT.

AS-BUILT DOCUMENTS

THE CONTRACTOR SHALL PROVIDE A COMPLETE SET OF THE ORIGINALLY APPROVED CIVIL DRAWINGS AND LANDSCAPE DRAWINGS AS A BASE FOR THE AS-BUILT RECORD DRAWINGS, PER THE REQUIREMENTS OF THE VILLAGE OF VERNON HILLS CODE OF ORDINANCES DEVELOPMENT REGULATIONS ENGINEERING STANDARDS SECTION P. THE AS-BUILT DOCUMENTS SHALL INCLUDE AN ENGINEER'S STATEMENT OF COMPLIANCE AND SHALL BE DATED, SIGNED, AND SEALED BY AN ILLINOIS PROFESSIONAL ENGINEER, AND SUBMITTED TO GHA FOR REVIEW. THE AS-BUILT PLANS SHALL FURTHER:

- SHOW THE RIM AND INVERT ELEVATIONS FOR ALL MANHOLES, CATCH BASINS, INLETS AND FLARED END SECTIONS.
 - WHEN SURFACE DETENTION IS PROVIDED ON A PAVED SURFACE SUFFICIENT AS-CONSTRUCTED GRADES SHALL BE PROVIDED TO CONFIRM THAT THE REQUIRED DETENTION VOLUME AND HIGH-WATER ELEVATION WAS ACHIEVED.
 - WHEN SURFACE DETENTION IS PROVIDED IN A DETENTION OR RETENTION POND, SUFFICIENT AS-CONSTRUCTED GRADES SHALL BE PROVIDED TO CONFIRM THAT THE REQUIRED DETENTION VOLUME WAS ACHIEVED. THE AS-CONSTRUCTED GRADES SHALL INCLUDE THE TOP OF THE BERM AND EMERGENCY OVERFLOW.
 - RESTRICTOR STRUCTURES SHALL BE LOCATED AND THE SIZE, TYPE AND ELEVATION OF THE RESTRICTOR SHALL BE PROVIDED ALONG WITH ANY INTERIOR OVERFLOW WEIRS, LOW-FLOW NOTCHES, ETC.
- PARTICULAR CARE SHALL BE GIVEN TO INSTALLATION OF ALL IMPROVEMENTS WITHIN THE ADA ROUTES INCLUDING RAMPS, LEVEL LANDINGS, TRANSITION PANELS, CURBS AND TACTILE SURFACES. THE CONTRACTOR SHALL ENSURE THAT ALL CROSS SLOPES AND LANDINGS DO NOT EXCEED 2% EXCEPT IN CHICAGO WHICH CANNOT EXCEED 1.56%. RUNNING SLOPES ON ADA ROUTES GREATER THAN 5% REQUIRE HANDRAILS. THE CONTRACTOR SHALL INFORM THE ENGINEER WHEN THE STATED SLOPES ARE EXCEEDED IN THE FIELD.
- AN ELECTRONIC FORMAT VERSION OF THE AS-BUILT RECORD DRAWINGS SHALL BE SUBMITTED TO THE VILLAGE ENGINEER IN A NON-PROPRIETARY FORMAT (e.g. PDF, DWG OR SHAPE FILE TYPE SPECIFIC TO A VENDORED SOFTWARE).

CONCRETE FIELD QUALITY CONTROL TESTING

A. THE CONTRACTOR WILL EMPLOY A QUALIFIED TESTING AND INSPECTION AGENCY TO SAMPLE MATERIALS, PERFORM TESTS, AND SUBMIT TEST REPORTS DURING CONCRETE PLACEMENT. SAMPLING AND TESTING FOR QUALITY CONTROL MAY INCLUDE THE FOLLOWING:

- SAMPLING FRESH CONCRETE: ASTM C172, EXCEPT MODIFIED FOR SLUMP TO COMPLY WITH ASTM C94.
 - SLUMP: ASTM C143; ONE TEST AT POINT OF PLACEMENT FOR EACH COMPRESSIVE-STRENGTH TEST BUT NO LESS THAN ONE TEST FOR EACH DAY'S POUR OF EACH TYPE OF CONCRETE. ADDITIONAL TESTS WILL BE REQUIRED WHEN CONCRETE CONSISTENCY CHANGES.
 - AIR CONTENT: ASTM C231, PRESSURE METHOD; ONE TEST FOR EACH COMPRESSIVE-STRENGTH TEST BUT NO LESS THAN ONE TEST FOR EACH DAY'S POUR OF EACH TYPE OF AIR-ENTRAINED CONCRETE.
 - CONCRETE TEMPERATURE: ASTM C1064; ONE TEST HOURLY WHEN AIR TEMPERATURE IS 40 DEGREES F (4 DEG. C) AND BELOW AND WHEN 80 DEGREES F (27 DEG C) AND ABOVE, AND ONE TEST FOR EACH SET OF COMPRESSIVE-STRENGTH SPECIMENS.
 - COMPRESSION TEST SPECIMENS: ASTM C31; ONE SET OF FOUR STANDARD CYLINDERS FOR EACH COMPRESSIVE-STRENGTH TEST, UNLESS DIRECTED OTHERWISE. MOLD AND STORE CYLINDERS FOR LABORATORY-CURED TEST SPECIMENS EXCEPT WHEN FIELD-CURED TEST SPECIMENS ARE REQUIRED.
 - COMPRESSIVE STRENGTH TESTS: ASTM C39; ONE SET FOR EACH DAY'S POUR OF EACH CONCRETE CLASS EXCEEDING 5 CU. YD. BUT LESS THAN 25 CU. YD., PLUS ONE SET FOR EACH ADDITIONAL 50 CU. YD. TEST ONE SPECIMEN AT 7 DAYS, TEST TWO SPECIMENS AT 28 DAYS, AND RETAIN ONE SPECIMEN IN RESERVE FOR LATER TESTING IF REQUIRED.
 - WHEN FREQUENCY OF TESTING WILL PROVIDE FEWER THAN FIVE STRENGTH TESTS FOR A GIVEN CLASS OF CONCRETE, CONDUCT TESTING FROM AT LEAST FIVE RANDOMLY SELECTED BATCHES OR FROM EACH BATCH IF FEWER THAN FIVE ARE USED.
 - WHEN TOTAL QUANTITY OF A GIVEN CLASS OF CONCRETE IS LESS THAN 50 CU. YD., ENGINEER MAY WAIVE STRENGTH TESTING IF ADEQUATE EVIDENCE OF SATISFACTORY STRENGTH IS PROVIDED.
 - WHEN STRENGTH OF FIELD-CURED CYLINDERS IS LESS THAN 85% OF COMPANION LABORATORY-CURED CYLINDERS, EVALUATE CURRENT OPERATIONS AND PROVIDE CORRECTIVE PROCEDURES FOR PROTECTING AND CURING THE IN-PLACE CONCRETE.
 - STRENGTH OF LEVEL OF CONCRETE WILL BE CONSIDERED SATISFACTORY IF AVERAGES OF SETS OF THREE CONSECUTIVE STRENGTH TEST RESULTS EQUAL OR EXCEED SPECIFIED COMPRESSIVE STRENGTH AND NO INDIVIDUAL STRENGTH TEST RESULT FALLS BELOW SPECIFIED COMPRESSIVE STRENGTH BY MORE THAN 500 PSI.
- B. TEST RESULTS WILL BE REPORTED IN WRITING TO ENGINEER, CONCRETE MANUFACTURER, AND OWNER WITHIN 24 HOURS OF TESTING. REPORTS OF COMPRESSIVE STRENGTH TESTS SHALL CONTAIN THE PROJECT IDENTIFICATION NAME AND NUMBER, DATE OF CONCRETE PLACEMENT, NAME OF CONCRETE TESTING AGENCY, CONCRETE TYPE AND CLASS, LOCATION OF CONCRETE BATCH IN PAVING, DESIGN COMPRESSIVE STRENGTH AT 28 DAYS, CONCRETE MIX PROPORTIONS AND MATERIALS, COMPRESSIVE BREAKING STRENGTH, AND TYPE OF BREAK FOR BOTH 7-DAY AND 28-DAY TESTS.
- C. NON-DESTRUCTIVE TESTING: IMPACT HAMMER, SONOSCOPE, OR OTHER NON-DESTRUCTIVE DEVICE MAY BE PERMITTED BUT SHALL NOT BE USED AS THE SOLE BASIS FOR ACCEPTANCE OR REJECTION.
- D. ADDITIONAL TESTS: THE TESTING AGENCY WILL MAKE ADDITIONAL TESTS OF THE CONCRETE WHEN TEST RESULTS INDICATE SLUMP, AIR ENTRAINMENT, CONCRETE STRENGTHS, OR OTHER REQUIREMENTS HAVE NOT BEEN MET, AS DIRECTED BY THE ENGINEER. TESTING AGENCY MAY CONDUCT TESTS TO DETERMINE ADEQUACY OF CONCRETE BY CORED CYLINDERS COMPLYING WITH ASTM C42, OR BY OTHER METHODS AS DIRECTED.

GENERAL NOTES

**HAWTHORN ELEMENTARY SCHOOL SOUTH
HAWTHORN SCHOOL DISTRICT #73
VILLAGE OF VERNON HILLS, ILLINOIS**

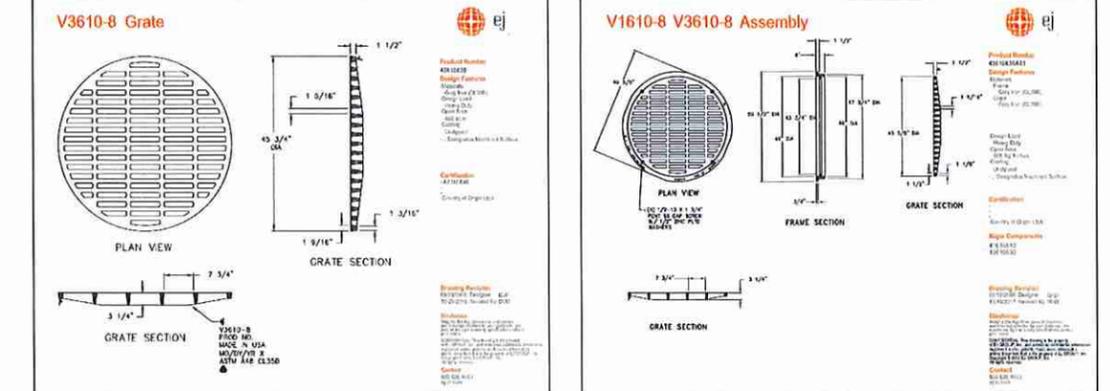
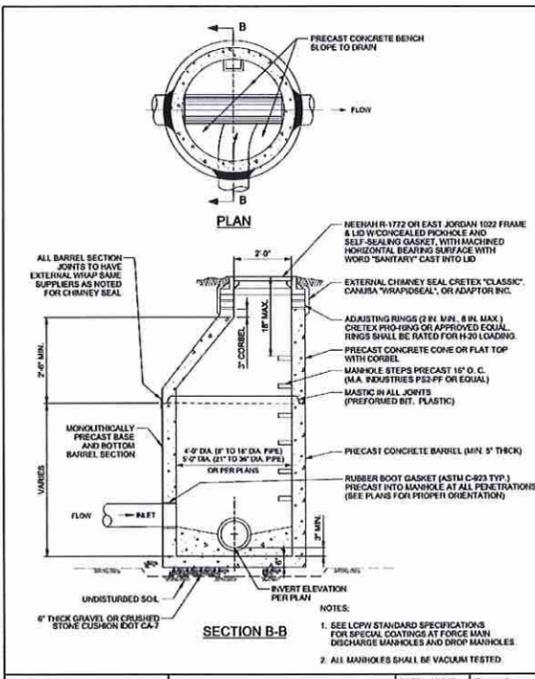
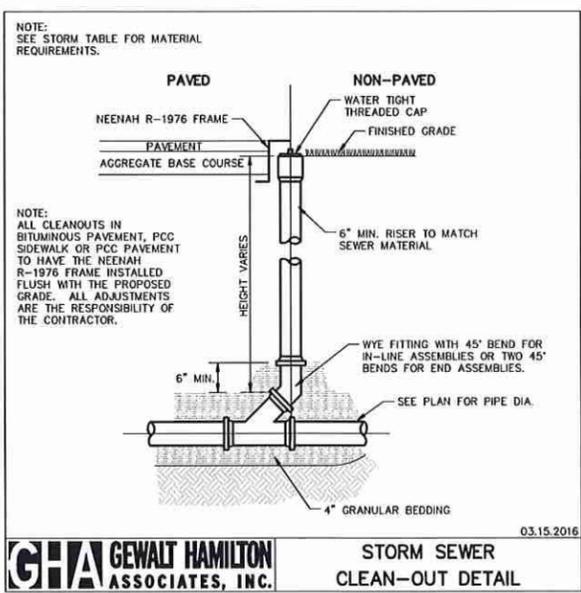
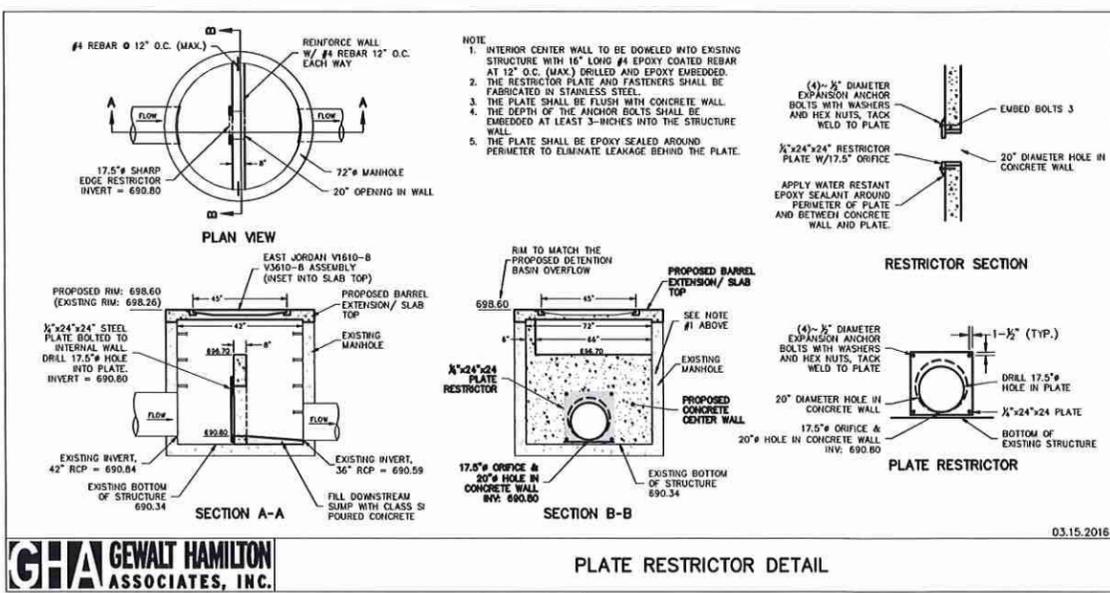
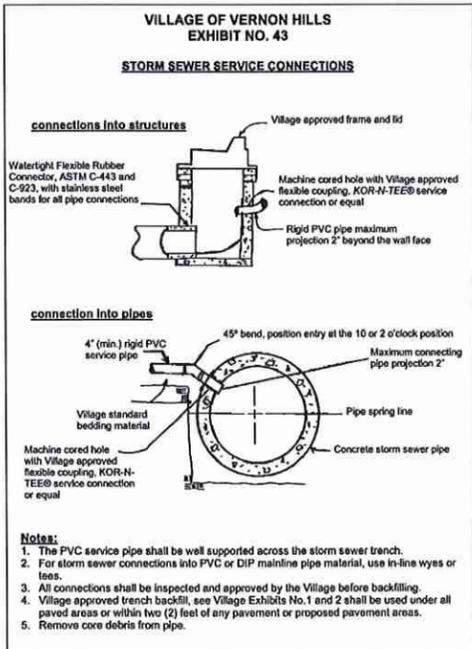
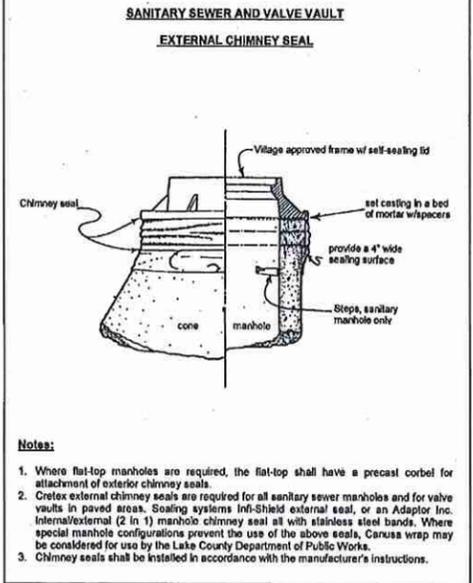
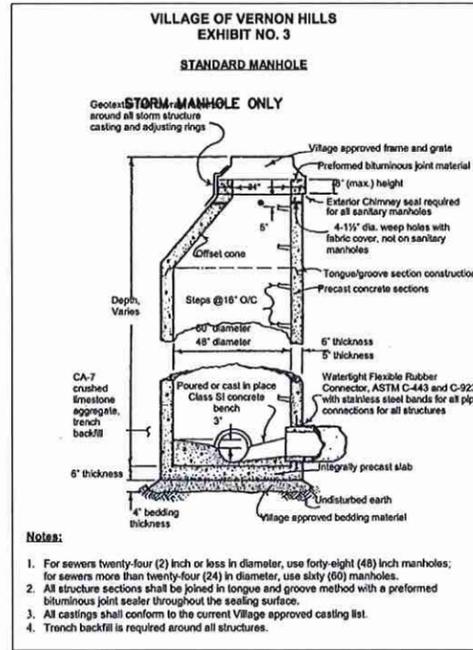
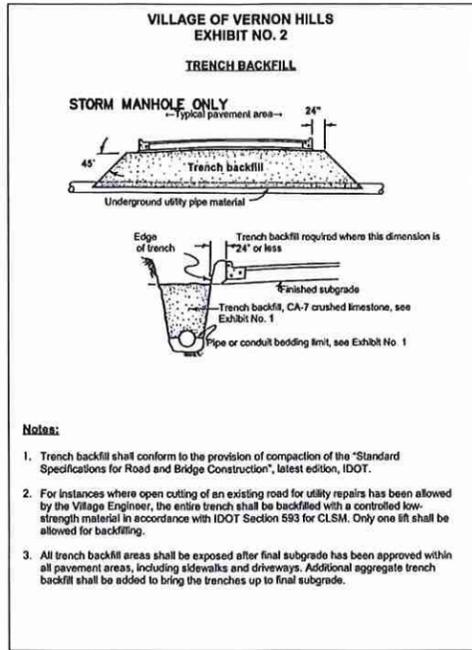
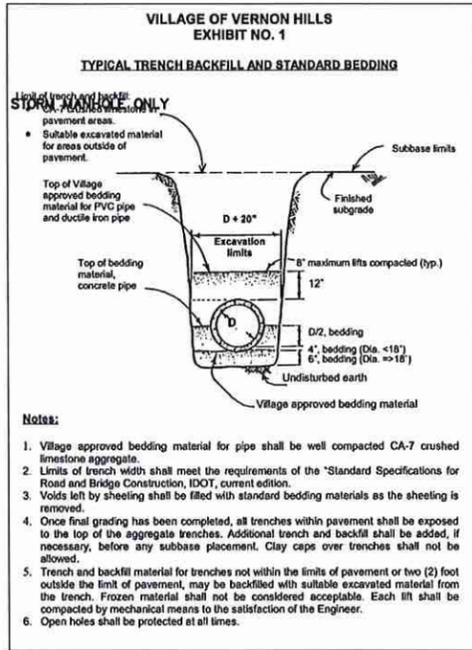
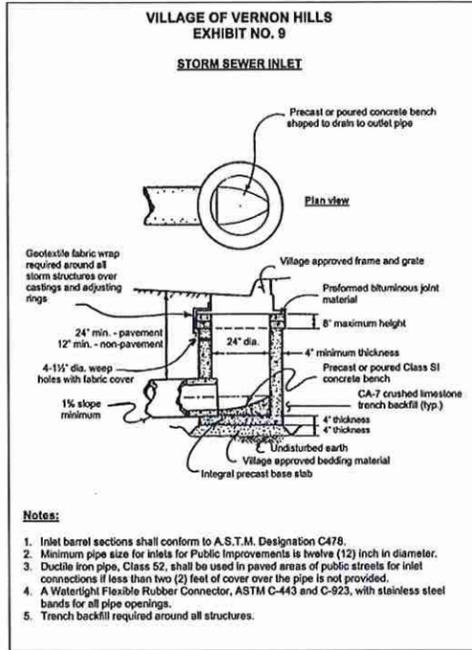
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NO.	BY	DATE	REVISION	NO.	BY	DATE	REVISION
6	ALC	04/02/21	ISSUED FOR CONSTRUCTION SET				
5	ALC	03/15/21	VILLAGE RESUBMITTAL SET #3				
4	ALC	03/03/21	VILLAGE RESUBMITTAL SET #2				
3	ALC	12/17/20	IFB ADDENDUM #3				

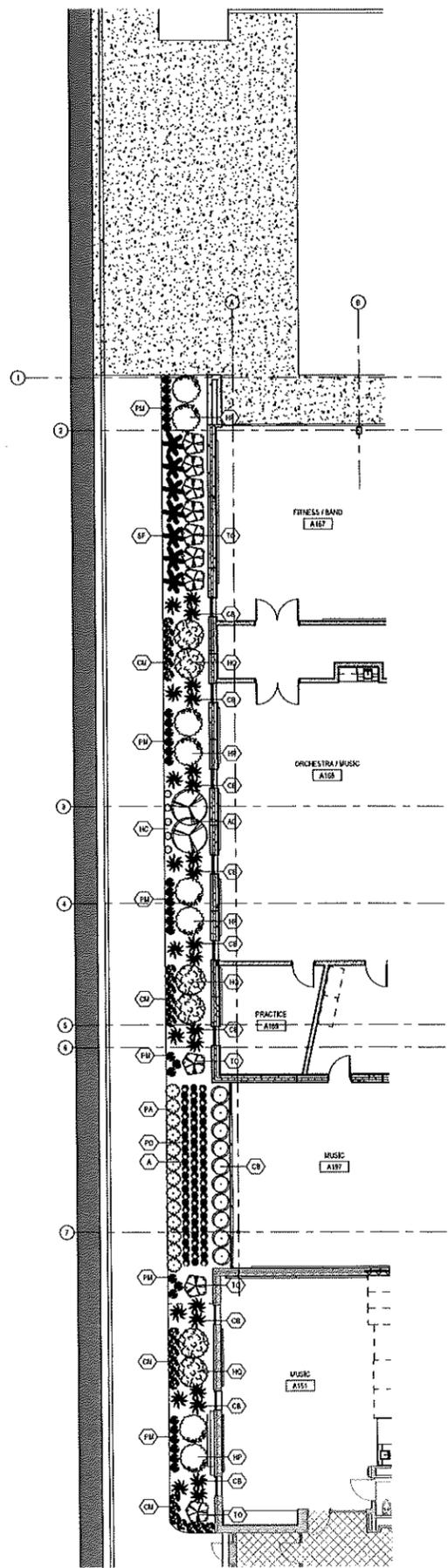
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DRAWN BY: ALC	GHA PROJECT #
DATE: 12/07/20	5802.000
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DATE: 12/07/20	N.A.
	OF 15 SHEETS

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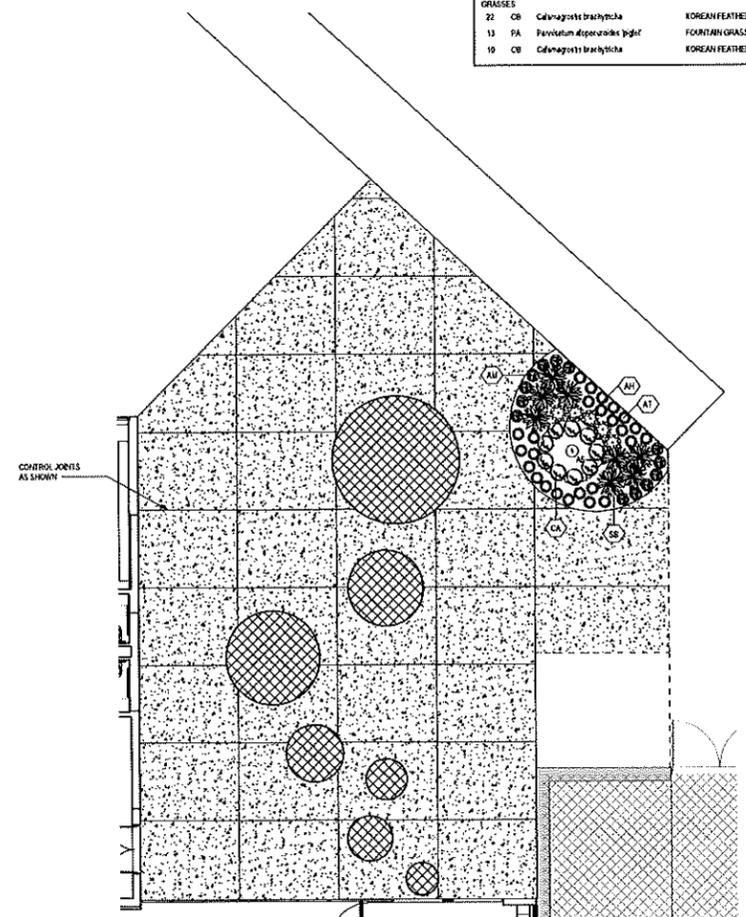


NO.	BY	DATE	REVISION	NO.	BY	DATE	REVISION
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5	ALC	03/15/21	VILLAGE RESUBMITTAL SET #3				
4	ALC	03/03/21	VILLAGE RESUBMITTAL SET #2				
3	ALC	12/17/20	IFB ADDENDUM #3				

RLE: 5802.100 DT.dwg	SHEET NUMBER:
DRAWN BY: ALC	GHA PROJECT #
DATE: 12/07/20	5802.000
CHECKED BY: DED	SCALE
DATE: 12/07/20	N.A.
	OF 15 SHEETS



2 WEST ENTRY LANDSCAPE PLAN
1/8" = 1'-0" A-011



1 NORTHEAST ENTRY LANDSCAPE PLAN
1/8" = 1'-0" A-011

SURFACING KEY	
[Pattern]	ASPHALT ROADS
[Pattern]	STANDARD GREY CONCRETE WALK
[Pattern]	HARDWOOD UNLAC (PLANT BED)
[Pattern]	BROOK FINISHED CONCRETE
[Pattern]	INTEGRAL COLORED CONCRETE

PLANTING KEY	
[Symbol]	SHRUBS AND PERENNIALS
[Symbol]	PLANT WITH SPECIES KEY
[Symbol]	PROPOSED TREE WITH SPECIES KEY

NORTHEAST ENTRY PLANT SCHEDULE						
#	KEY	BOTANICAL NAME	COMMON NAME	SIZE	ROOT	NOTES
TREES						
1	AT	Acer x Fraxino 'Winn'	WINDO FREEWAY MAPLE	8'	B&B	MATCHED SPECIMAN NO FRUIT
SHRUBS						
6	SB	Spiraea x longifolia 'Goldflame'	GOLDFLAME SPIREA	2.5'	CONT.	MATCH SPECIMAN
PERENNIALS						
25	AT	Abutilon longicum 'Summer Beauty'	SUMMER BEAUTY ORNAMENTAL OKRAH	18"	CONT.	SPACE AS SHOWN ON PLANS
13	AM	Artemisia integrifolia 'Moonshine'	MOONSHINE YARROW	18"	CONT.	SPACE AS SHOWN ON PLANS
5	AM	Ammannia tuberosa	NARROW LEAF BLUESTAR	24"	CONT.	SPACE AS SHOWN ON PLANS
GRASSES						
9	CA	Calamagrostis x arctica 'Karl Foerster'	KARL FOERSTER FEATHER REED GRASS	2'	CONT.	SPACE AS SHOWN ON PLANS

WEST ENTRY PLANT SCHEDULE						
#	KEY	BOTANICAL NAME	COMMON NAME	SIZE	ROOT	NOTES
EVERGREENS						
10	TD	Thuja occidentalis 'Smaragd'	ARBORVITAE 'SMARAGD' EVERGREEN	6'	B&B	MATCHED SPECIMAN
SHRUBS						
6	HQ	Hydrangea x sparsiflora 'Pinky-Johnson'	OAK LEAF HYDRANGEA 'JETSTREAM'	8.5'	CONT.	MATCH SPECIMAN
8	HP	Hydrangea paniculata 'Simplicity of Life Quince'	HYDRANGEA LITTLE CRACKFIRE	8.5'	CONT.	MATCH SPECIMAN
1	AC	Ampelopsis canadensis 'Shadow'	SERVICEBERRY SHADOW	10'	B&B	MATCH SPECIMAN
7	CF	Spiraea x filifolia 'J.N. Select'	FINN-A-LKIOUS	3'	B&B	MATCH SPECIMAN
PERENNIALS						
-	A	Alum Millium	ALUM MILLEDORF	8.1"	CONT.	SPACE AS SHOWN ON PLANS
-	PO	Polygonatum odoratum Variegatum	SOLDANIONS SEAL VARIEGATED	8.1"	CONT.	SPACE AS SHOWN ON PLANS
25	CU	Hebe x 'Fasciated' 'Cats Paw'	HEBEA	8.1"	CONT.	SPACE AS SHOWN ON PLANS
9	HC	Hebe x 'Tara'	CORAL BELLS	8.1"	CONT.	SPACE AS SHOWN ON PLANS
30	FW	Hemerocallis 'Fanto M'	DAYLILY	8.1"	CONT.	SPACE AS SHOWN ON PLANS
GRASSES						
22	CB	Calamagrostis brachylocha	KOREAN FEATHER REED GRASS	8.1"	CONT.	SPACE AS SHOWN ON PLANS
13	FA	Festuca dipensoides 'Jiglet'	FOUNTAIN GRASS	8.1"	CONT.	SPACE AS SHOWN ON PLANS
10	CB	Calamagrostis brachylocha	KOREAN FEATHER REED GRASS	8.1"	CONT.	SPACE AS SHOWN ON PLANS

GENERAL NOTES:
1. SEE CIVIL DRAWINGS FOR LOCATIONS FOR SEED AND SOOD INSTALLATION
2. SEE CIVIL DRAWINGS FOR EXISTING TREE PROTECTION REQUIREMENTS
3. SEE SHEET LS-100 FOR TYPICAL LANDSCAPE INSTALLATION DETAILS

LEGAT ARCHITECTS
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NO.	DESCRIPTION	DATE
1	CONSTRUCTION SET	05.01.20

PROJECT NUMBER 220105.00
DATE OF ISSUE 12/07/2020
DRAWN BY NH
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ARCHITECTURAL
SITE/LANDSCAPE PLAN

AS-100
ISSUED FOR BID

**ELEMENTARY
SCHOOL SOUTH
ADDITIONS AND
RENOVATIONS**

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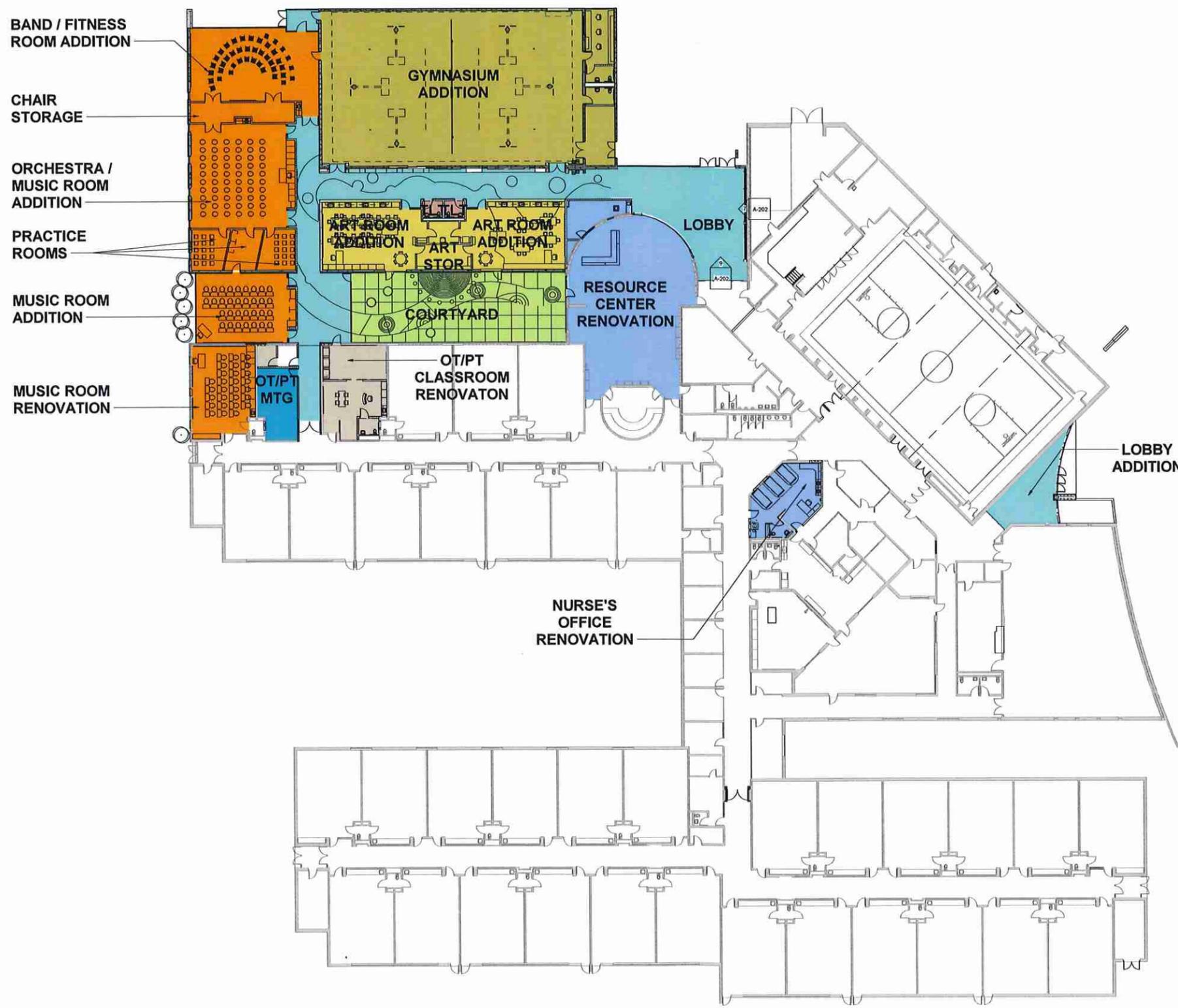
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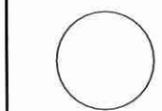
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LEGEND

- Art
- Circulation
- Gymnasium
- Meeting Room
- Music
- Outdoor Play
- Special Ed
- Toilet Room



1 FIRST FLOOR PLAN
1/16" = 1'-0"



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DATE

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PROJECT 220105.00
DATE OF ISSUE 12/10/2020
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OVERALL FLOOR PLAN

A-012
TECHNICAL REVIEW

ELEMENTARY
SCHOOL SOUTH
ADDITIONS AND
RENOVATIONS

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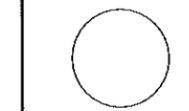
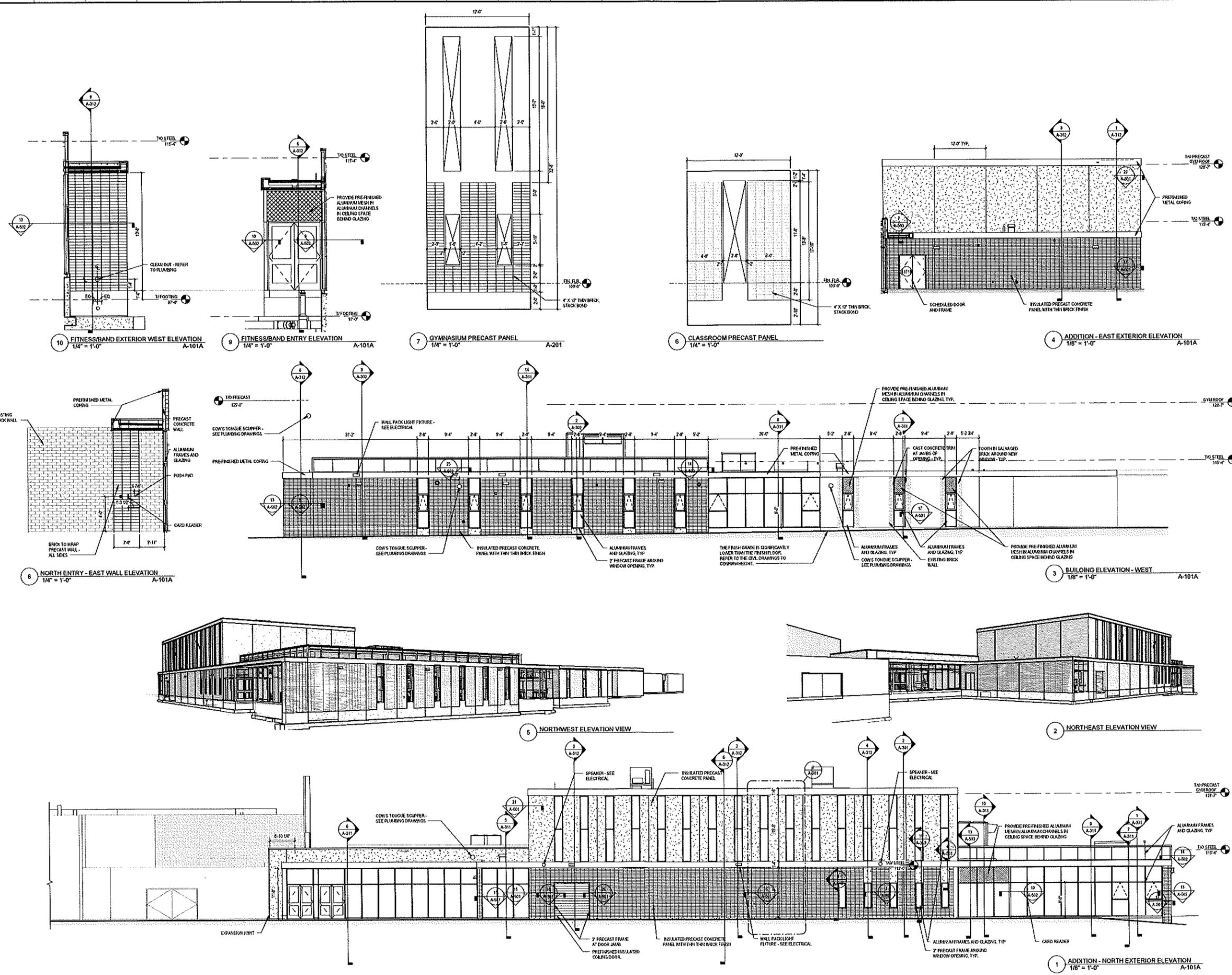
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EXTERIOR BUILDING
ELEVATIONS

A-201
TECHNICAL REVIEW

ELEMENTARY
SCHOOL SOUTH
ADDITIONS AND
RENOVATIONS

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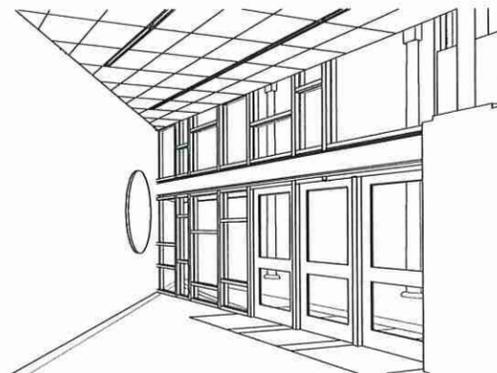
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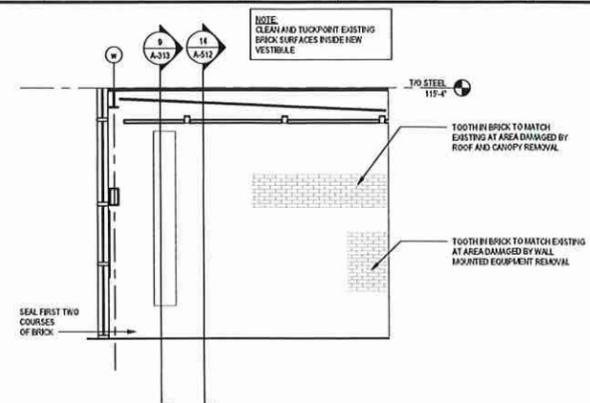
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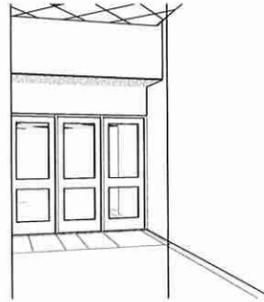
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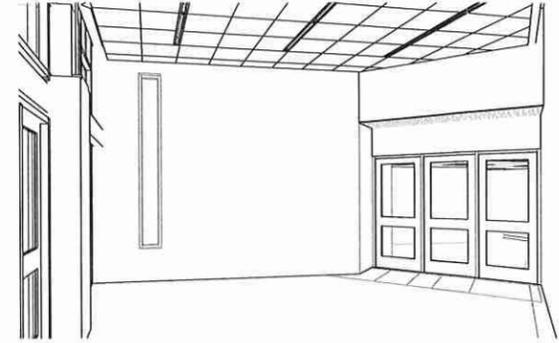
9 LOBBY AB-100 INTERIOR VIEW



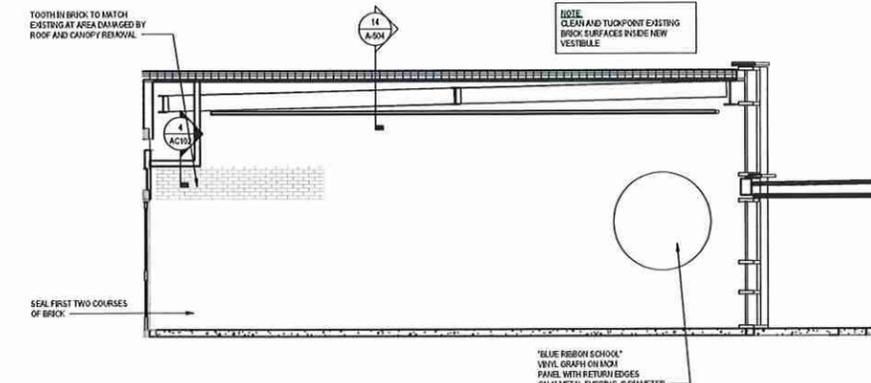
3 LOBBY AB-100 SOUTH ELEVATION
1/4" = 1'-0" A-405



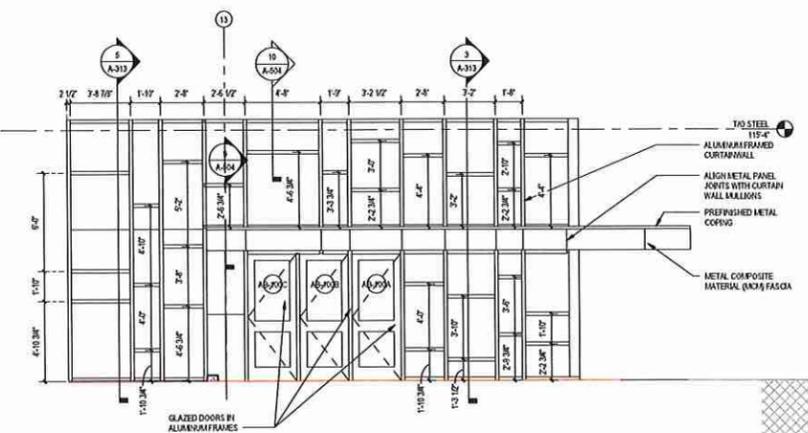
7 LOBBY AB-100 INTERIOR VIEW



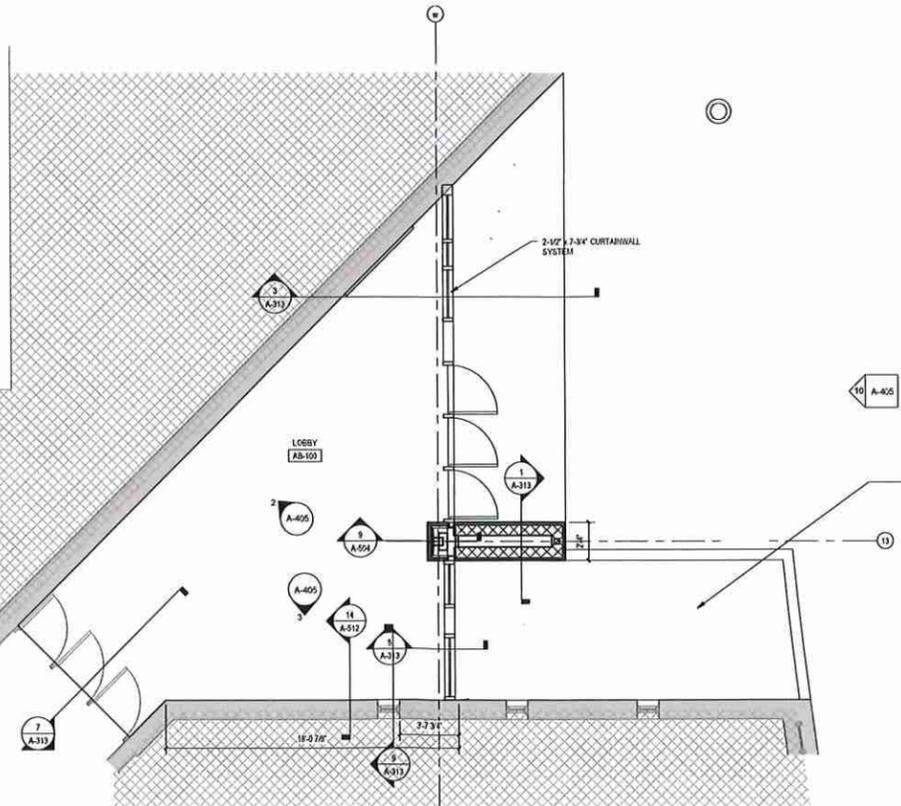
8 LOBBY AB-100 INTERIOR VIEW



2 LOBBY AB-100 NORTHWEST ELEVATION
1/4" = 1'-0" A-405



10 EAST ENTRY ELEVATION
1/4" = 1'-0" A-102



1 EAST VESTIBULE - ALTERNATE #1
1/4" = 1'-0" A-102

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PROJECT 220105.00
DATE OF ISSUE 03/26/2021
DRAWN BY Author
CHECKED BY Checker

EAST ENTRY
ENLARGED PLANS &
ELEVATIONS - ALT. #1 &
#6

A-405
CONSTRUCTION SET



CLEAR GLAZING IN
ALUMINUM FRAMES

COMPOSITE METAL PANEL

EXISTING GLAZING IN
ALUMINUM FRAMES

EXISTING FACE BRICK

EXISTING ASPHALT DRIVEWAY

ALUMINUM FLAGPOLE

EXISTING FACE BRICK

BROOM FINISH
CONCRETE PAVING

EAST ENTRY PERSPECTIVE



CLEAR GLAZING IN
ALUMINUM FRAMES

EXISTING FACE BRICK

COMPOSITE METAL PANEL

EXISTING GLAZING IN
ALUMINUM FRAMES

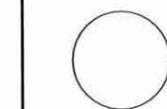
BROOM FINISH
CONCRETE PAVING

EXISTING FACE BRICK

ALUMINUM FLAGPOLE

EXISTING ASPHALT DRIVEWAY

EAST ENTRY AERIAL



ORIENT
DATE

REVISIONS

NO.	DESCRIPTION	DATE

PROJECT 220105.00
DATE OF ISSUE 03/26/2021
DRAWN BY LW
CHECKED BY TH

PERSPECTIVE VIEWS

A-901

CONSTRUCTION SET



EXISTING FACE BRICK

ACID ETCHED INSULATED
PRECAST CONCRETE PANEL

CLEAR GLAZING IN
ALUMINUM FRAMES

ACID ETCHED INSULATED
PRECAST CONCRETE PANEL

THIN BRICK TO MATCH
EXISTING ON INSULATED
PRECAST CONCRETE PANEL

BROOM FINISH
CONCRETE PAVING

NORTH ENTRY PERSPECTIVE



EXISTING FACE BRICK

INTEGRAL COLOR
CONCRETE PAVING

CONCRETE PLANTER

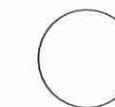
BROOM FINISH
CONCRETE PAVING

ACID ETCHED INSULATED
PRECAST CONCRETE PANEL

THIN BRICK ON INSULATED
PRECAST CONCRETE PANEL

CLEAR GLAZING IN
ALUMINUM FRAMES

NORTH ENTRY AERIAL



SIGNATURE
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