Village of Lincolnshire
One Olde Half Day Road
Lincolnshire, IL 60069
www.lincolnshireil.gov

AGENDA
REGULAR ZONING BOARD MEETING
Public Meeting Room, Village Hall
Tuesday, January 12, 2016
7:00 p.m.

Reasonable accommodations or auxiliary aids will be provided to enable persons with disabilities to effectively participate in any public meetings. Please contact the Village Administrative Office (847.883.8600) 48 hours in advance if you need any special services or accommodations.

CALL TO ORDER

1.0 ROLL CALL

2.0 APPROVAL OF MINUTES

2.1 Approval of the Minutes of the regular Zoning Board Meeting held on Wednesday, December 16, 2015.

3.0 GENERAL BUSINESS

3.1 PUBLIC HEARING regarding a request for Special Use Permit to ratify operation of a public school with zoning exceptions, including a proposed 24,500 square foot building addition for Half Day school, 239 Olde Half Day Road (Lincolnshire-Prairie View School District 103)

3.2 PUBLIC HEARING regarding a request to rezone a public school parking lot from R1 Single-Family Residence Zoning District to B1 Retail Business Zoning District for Half Day school, 239 Olde Half Day Road (Lincolnshire-Prairie View School District 103)

3.3 PUBLIC HEARING regarding a request for Special Use Permit to ratify operation of a public school with zoning exceptions, including a proposed 14,000 square foot building addition for Laura B. Sprague elementary school, 2425 Riverwoods Road (Lincolnshire-Prairie View School District 103)

4.0 UNFINISHED BUSINESS
5.0 NEW BUSINESS
6.0 CITIZEN COMMENTS
7.0 ADJOURNMENT

The Zoning Board will not proceed past 10:30 p.m. unless a motion is made and approved by a majority of the Zoning Board members to extend the meeting one-half hour to 11:00 p.m. Any agenda items or other business that are not addressed within this time frame will be continued to the next regularly scheduled Zoning Board Meeting.

Village of Lincolnshire
One Olde Half Day Road
Lincolnshire, IL 60069
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UNAPPROVED Minutes of the **REGULAR MEETING OF THE ZONING BOARD** held on Wednesday, December 16, 2015, in the Public Meeting Room in the Village Hall, One Olde Half Day Road, Lincolnshire, IL.

PRESENT: Chairman Manion, Members Bichkoff, Kalina and Van de Kerckhove.

STAFF PRESENT: Tonya Zozulya, Economic Development Coordinator.

ABSENT: Members Brady and Trustee McDonough.

CALL TO ORDER: **Chairman Manion** called the meeting to order at 7:04 P.M.

1.0 ROLL CALL

The roll was called by **Economic Development Coordinator Zozulya** and **Chairman Manion** declared a quorum to be present.

2.0 APPROVAL OF MINUTES

2.1 Approval of the Minutes related to the Rescheduled Zoning Board Meeting held on Wednesday, October 14, 2015.

Member Kalina moved and **Member Van de Kerckhove** seconded the motion to approve the minutes of the Regular Meeting of the Zoning Board, as submitted. The motion passed unanimously by voice vote.

3.0 ITEMS OF GENERAL BUSINESS

3.1 Consideration of a Minor Amendment to Ordinance No. 15-3365-92, to permit modifications to an approved building entry for a religious use within an existing office/industrial building at 625 Barclay Blvd (Willow Creek Community Church).

Mr. Matt Wright, Lead Pastor at Willow Creek Church, gave a PowerPoint presentation. He showed the originally-approved corner building entry presented to the Zoning Board in the spring 2015 as well as the current proposal. He noted the entry would not be visible to the public from Barclay Boulevard and it can only be viewed from the parking lot. Mr. Wright stated the majority of the Zoning Board discussion during the Special Use approval process focused on the church use rather than building architecture. He stated that in the course of drawing up construction plans and value engineering, they determined the original plans were not feasible regarding the building entry. The church subsequently worked with Van Vlissingen & Company, the landlord, on revising the plans. The current proposal represents a joint effort of the church and the landlord. Mr. Wright stated it is the landlord's preference the brick over the entry remain exposed rather than covered with glass to provide for a possible future wall sign. Van Vlissingen also wanted the colors to be more subdued than the approved color scheme to be more consistent with the industrial nature of the building and surrounding properties in the Corporate Center. Mr. Wright introduced his team who were present at the meeting: Doug Pasma, Project Architect, and Bob Behrends, General Contractor.

Economic Development Coordinator Zozulya noted staff's support for the revised proposal given Willow Creek's construction and budgetary challenges as well as the landlord's comments. She stated staff recommends the proposal be further revised to accommodate jagged edging (albeit it would not have to be as pronounced as shown in the original proposal) and a new set of tiling for the east elevation to mirror what is proposed for the south elevation. She noted the building entry was not reviewed by the Architectural Review Board during the Special Use process given its small scale. Therefore, this amendment request is being presented to the Zoning Board as the entrance was included in the approved Special Use ordinance. **Economic Development Coordinator Zozulya** further stated the Village Code states minor Special Use amendments are reviewed and approved by the Zoning Board who makes the final determination. No public hearing is required. The request will not be submitted to the Village Board.

Member Kalina noted his agreement with staff's recommendations for aesthetical reasons as he believes the entry would look more symmetrical and interesting.

Chairman Manion inquired about the evergreen trees shown in the rendering along the south elevation. Mr. Wright stated the trees are already there.

Chairman Manion stated he believes the trees would conceal the edges of the tile; therefore, he is not in favor of providing for a jagged tile design. **Mr. Wright** stated he believes that the edges would be covered by the existing trees.

Chairman Manion, Member Bichkoff and Member Van de Kerckhove expressed they are not in favor of imposing any conditions on their approval given the entry does not face the street and given the church's and landlord's reasons for the revisions. **Member Kalina** stated his agreement.

The Zoning Board did not have any further questions or concerns.

There being no further comments, **Chairman Manion** sought a motion from the Zoning Board.

Member Bichkoff moved and Member Van de Kerckhove seconded a motion to approve a minor amendment to an existing Special Use for Willow Creek Community Church in the O/Ic District to permit a revised public building entry, as detailed in a presentation packet dated December 7, 2015, for an existing office/industrial building located at 625 Barclay Boulevard.

The motion passed unanimously by voice vote.

4.0 UNFINISHED BUSINESS (None)
5.0 NEW BUSINESS (None)
6.0 CITIZENS COMMENTS (None)
7.0 ADJOURNMENT

There being no further business, **Chairman Manion** sought a motion for adjournment. **Member Kalina** moved, and **Member Bichkoff** seconded the motion to adjourn. The meeting adjourned at 7:16 p.m.
Minutes submitted by Tonya Zozulya, Economic Development Coordinator.

Village of Lincolnshire

Agenda Item
3.1-3.3, ZB

REQUEST FOR BOARD ACTION
Zoning Board
January 12, 2016

Subject:	Special Use Requests at Half Day School & Sprague Elementary School, and a rezoning from R1 to B1 for the parking lot at Half Day School
Action Requested:	**3.1 Public Hearing** regarding a request for Special Use Permit to ratify operation of a public school with zoning exceptions, including a proposed 24,500 square foot building addition for Half Day school, 239 Olde Half Day Road **3.2 Public Hearing** regarding a request to rezone a public school parking lot from R1 Single-Family Residence Zoning District to B1 Retail Business Zoning District for Half Day school, 239 Olde Half Day Road **3.3 Public Hearing** regarding a request for Special Use Permit to ratify operation of a public school with zoning exceptions, including a proposed 14,000 square foot building addition for Laura B. Sprague elementary school, 2425 Riverwoods Road
Petitioner:	Lincolnshire – Prairie View School District 103
Originated By/Contact:	Steve McNellis, Director Department of Community & Economic Development
Advisory Board Review:	Zoning Board

Background:

- School District 103 proposes additions to Half Day School and Laura B. Sprague Elementary School, as detailed in the attached presentation packet, to respond to increased enrollment and capacity issues throughout the District.
- Both schools were constructed prior to a 1965 Village Ordinance requiring schools obtain a Special Use Permit in the B1 (Half Day School) and R3 (Sprague Elementary) Zoning Districts in which the schools are located. Neither school had the necessity to obtain a Special Use Permit until now.
- The Half Day School site has maintained school operations since the early 1800's. The school was annexed to the Village of Lincolnshire in 1972, closed in the 1980's, and subsequently modernized and reopened in 1992. Additional land annexed and added to the west side of the school property in 1996 accommodated a parking lot for the most recent building expansion. This additional land was zoned R1 at the time of annexation, but was never rezoned.
- Sprague Elementary School was constructed in 1963 on property annexed to the Village in 1959. Sprague completed building expansions in 1967, 1990 and 1994.
- School District 103 requests Village consideration for the creation of Special Use Permits for both Half Day School and Sprague Elementary to comply with Village Code requirements. The current petition contemplates creation of a Special Use Permit for both sites while also addressing consideration of the proposed additions.

Project Summary:

- The proposed 2-story building expansion at Half Day School contemplates constructing an additional 24,500 square feet and relocating an existing parking lot on the west side of the lot further west to accommodate the proposed building addition.
- The area of the parking lot remains R1 Zoning since being annexed and is proposed to be rezoned to B1 Zoning so the entire school property is one consistent zoning.
- Given the expansion in impervious area at Half Day School, Lake County Stormwater Management Commission (SMC) requires an expansion in the existing detention pond at the southwest corner of the property.
- The proposed 2-story building addition at Sprague Elementary School contemplates construction of an additional 14,000 square feet, on the southwest corner of the existing building, adjacent to the School's gymnasium.
- Much of the Sprague Elementary expansion area is currently asphalt, so the increase in impervious surface is minimal and Lake County SMC will not require a detention pond.

Staff Comments:

3.1 <u>Half Day School – Special Use Request</u>

- **Parking** - Required parking for a school is one space per employee. Between the existing parking east of the school and the new lot west of the school, there will be a total of approximately 80 spaces. Based on the estimated Staff of 70 in the expanded school, the Village's Code requirement of one space per employee will be met. At the Village Board Preliminary Evaluation meeting, a Trustee noted some concerns from parents who wanted to park and walk their children into school and were told this was not allowed. Given the expanded and enhanced stacking pattern for vehicles in and adjacent to the west parking lot (see attached Car Stacking Exhibit), this concern may be able to be addressed without the need for additional parking.

  At Tuesday night's meeting, the Petitioner should confirm the proposed new parking lot meets Village code requirements for parking stall length and drive aisle width.

- **Vehicular Circulation** – A Parking Study, completed by a Traffic Engineer is attached. The findings of this Study demonstrate morning drop-off traffic is currently not an issue and should continue to function optimally with projected additional drop-off traffic. The afternoon pick-up is currently challenging and creates congestion on-site. The study depicts the need to stack up to an additional 26 vehicles on-site for pick-up in the afternoon. With a reconfigured parking lot and new Stacking Plan, an additional 15 vehicles can be accommodated on-site in the afternoon, representing a 50% increase in capacity, satisfying the additional demand.

  Given the delicate circulation balance necessary for the entire system to work, Staff recommends a "Drop-off/Pick-Up Entrance" sign be added at the western driveway access.

  The attached Traffic Study states curb cut improvements should be considered at the easternmost driveway to accommodate school bus turning radii. While not shown on the attached plans, Staff recommends this improvement as part of the Special use request to insure safe and efficient turning movements off Olde Half Day Road.

- **Pedestrian Circulation** – The School has discussed the idea of a crosswalk across Olde Half Day Road with Mayor Brandt. With the tie-in between students at the School utilizing

the Library, as well as an opportunity to use the Library parking lot for special events at the School, a crosswalk is recommended. Given sightline issues and existing utility poles and infrastructure in the area, Staff is recommending there be further coordination between the Village, the School District and IDOT regarding the best location for this crosswalk.

- **Stormwater Detention** - The proposed detention basin location, size and proposed planting plan must be approved by Lake County Stormwater Management Commission (SMC) and reviewed by the ARB for landscaping requirements. Appropriate safeguards will be necessary for a wet-bottom pond, in light of the school use.
- **Building Design & Landscape Plan** – The ARB will review the building architecture and landscaping details at a meeting on January 19th and provide a recommendation to the Village Board.
- **Special Use Exceptions** – Attached, please find a listing of all exceptions requested as part of the proposed Special Use. The School has been functioning under current conditions for over 40 years, without complaint. Many of the exceptions have been in place for most of that time period. As a result, Staff recommends accepting most of the proposed exceptions, as they relate to conditions that are not expected to change with the new addition. Staff would not typically recommend permitting the parking lot design standard and locational exceptions, however, given the limited ability to provide required parking on-site, as well as required detention, while leaving adequate play area for children, Staff believes these exceptions are warranted. Permitting a prohibited fence material (chainlink) to be removed and replaced along the south property line is an exception Staff believes should not be permitted. Any replaced fencing should meet current code and there should be a phased plan prepared to eliminate this prohibited material over a reasonable period of time.
- **Special Use Findings of Fact:** The attached presentation packet includes the Petitioner's response to the Findings of Fact for Special Use for consideration by the Zoning Board.

3.2 <u>Half Day School – Rezoning Request</u>

The fact that the small parking lot property at the west side of the site was never rezoned to the B1, Retail Business Zoning District, consistent with the remainder of the school property, is an oversight. This should have occurred at annexation in 1996. Since no other site improvements have occurred since that time, this is the first opportunity to remedy that oversight. Given the commercial zoning to the immediate east and south of this property, and office zoning to the north, the proposed B1 Zoning is consistent in intensity. The Comprehensive Plan designates this property as "Public & Institutional Use" consistent with the remainder of the school property. Map Amendment (Rezoning) Findings Fact will be provided to the Zoning Board prior to Tuesday night's meeting. Staff recommends approval.

3.3 <u>Sprague Elementary School – Special Use Request</u>

- **North Property Line Screening** – Staff received the following comment from Trustee Dan Servi, a resident who lives along the North property line: "I (have) concern about the potential for increased noise. Since my backyard is also adjacent to the playground on the north, I can attest that it can get noisy when the kids are out playing. The increased noise concern seems to revolve around the fact that the addition will jut out so that it is adjacent to the playground area on the south side of the playground. This could help buffer the neighbors to the south from the noise but may reflect noise to the north. My neighbor proposed a solid fence be erected along the properties adjacent to the north. Aside from the potential noise issue, I would support the fence to improve both aesthetics and security to the property. The current situation is there are multiple fence types in various states of repair and gaps between some of the fences." Filling fence gaps could assist in security for the adjacent northern properties, while an alternate option of adding evergreen trees could

assist in sound dampening. The Zoning Board should consider whether or not such measures are warranted as part of the Special Use request for the existing school and proposed expansion.

- **Vehicle Circulation** – Staff has noted vehicles stack in the afternoon on the north side of the existing parking area east of the proposed building addition to pick-up for the "After School Program." In exiting the site, those vehicles currently turn around in the large asphalt area to be covered by the proposed building addition. Staff is concerned with how this turning maneuver will work with the building addition. The Petitioner has responded – "Vehicles that enter into the parking area adjacent to the new addition would still have the ability to turn around using the new drive that connects to the south face of the new addition." Staff is comfortable that the School can develop and communicate a plan to address this issue without adding additional impervious area.
- **South Property Line Screening** – In considering the expanse of glass on the south façade of the new building addition and reviewing the Sun Study, Staff is concerned screening for some southern properties may not be adequate. The required 30" of tree replacement, related to proposed tree removals, does not appear to be provided, so there are opportunities to add evergreen tree inches providing increased screening/buffering. The School's use of "Low E glass" designed to reduce sun glare is very beneficial. However, the addition of evergreen trees in selected areas along the south property line would provide additional assurance that glare does not impact neighbors to the south. Staff will address this matter with the ARB in their review of the Landscape Plan. However, if the Zoning Board agrees with this concern, it can be reinforced with your recommendation the ARB analyze this concern.
- **Building Design & Landscape Plan** – The ARB will review the building architecture and landscaping details at a meeting on January 19th and provide a recommendation to the Village Board.
- **Special Use Exceptions** - Attached, please find a listing of all exceptions requested as part of the proposed Special Use. The School has been functioning under many of the current conditions for almost 50 years (with other "newer" conditions for at least 20 years), without complaint. Many of the exceptions have been in place for most of that time period. As a result, Staff recommends accepting most of the proposed exceptions, as they relate to conditions that are not expected to change with the new addition. The school District has provided the following commentary on the necessity for these structures:

  "The shed contains equipment for PE classes and recess periods. Prior storage for this equipment was in the school corridor and the Fire Department requested that the equipment be removed from the corridor so it wouldn't obstruct egress. The canopy was awarded to the School District through the American Cancer Society. It is intended to minimize student and/or community member exposure to the sun, and support the American Cancer Society;s goal to prevent skin cancer."

  Neither structure meets the Accessory Structure requirements of the Village Code. The storage shed is non-compliant with regard to location, base material, screening and materials, while the canopy is not listed as a permissible accessory structure. The Zoning Board should consider the necessity for these structures as described by the School District at Tuesday night's meeting.

- **Special Use Findings of Fact:** The attached presentation packet includes the Petitioner's response to the Findings of Fact for Special Use for consideration by the Zoning Board.

Recommendation:
Staff recommends approval of the two Special Use Permit requests, as well as the Rezoning request at Half Day School, subject to the following conditions:

3.1 <u>Half Day School – Special Use Request</u>

1. New "Drop-off/Pick-Up Entrance" sign be added at the west driveway access to the site.
2. Curb cut improvements at the east driveway access to accommodate school bus turning radii.
3. School District 103 work with the Village Board and Village Staff to coordinate approvals for a crosswalk across Olde Half Day Road at a mutually-agreeable location.
4. The proposed detention basin location, size and proposed planting plan be approved by Lake County Stormwater Management Commission (SMC) and reviewed by the ARB for landscaping requirements.
5. Removed chainlink fencing to be replaced by Code-Compliant fencing. Remaining chainlink fencing to be eliminated over a period of time mutually-agreeable to the Village and School District 103.

3.2 <u>Half Day School – Rezoning Request</u> – Recommended as presented.

3.3 <u>Sprague Elementary School – Special Use Request</u>

1. ARB to review and consider additional Evergreen trees in selected areas along the south property line to reduce impact of potential sun glare on properties to the south.
2. Curb cut improvements at the east driveway access to accommodate school bus turning radii.

Motions:
Attendance at Tuesday night's meeting will meet the threshold for a quorum to open the meeting and hold a Public Hearing, but not to take action on these requests. Therefore, discussion on these requests will conclude at a Special Zoning Board Meeting on January 26th at 7:00 P.M. At that time, the Zoning Board will have sufficient attendance to take action and vote on these requests. Any revisions requested at Tuesday night's meeting can be addressed at that meeting. Motions will be provided in the Zoning Board packet for the January 26th meeting.

Reports and Documents Attached:

- Half Day School Special Use & Rezoning Request Presentation Packet, prepared by Wight & Company, dated January 8, 2016.
- Sprague Elementary School Special Use Request Presentation Packet, prepared by Wight & Company, dated January 8, 2016.
- Standards for Special Use, prepared by Wight & Company, dated January 7, 2016.

Meeting History	
Village Board Evaluation (COW):	December 14, 2015
Current Zoning Board (Public Hearing)	January 12, 2016

Village of Lincolnshire
Zoning Board Submittal Packet

Lincolnshire – Prairie View School District 103
Additions to Half Day School

January 8, 2016

Lincolnshire Prairie View School District 103
1370 N. Riverwoods Road
Lincolnshire, IL 60069

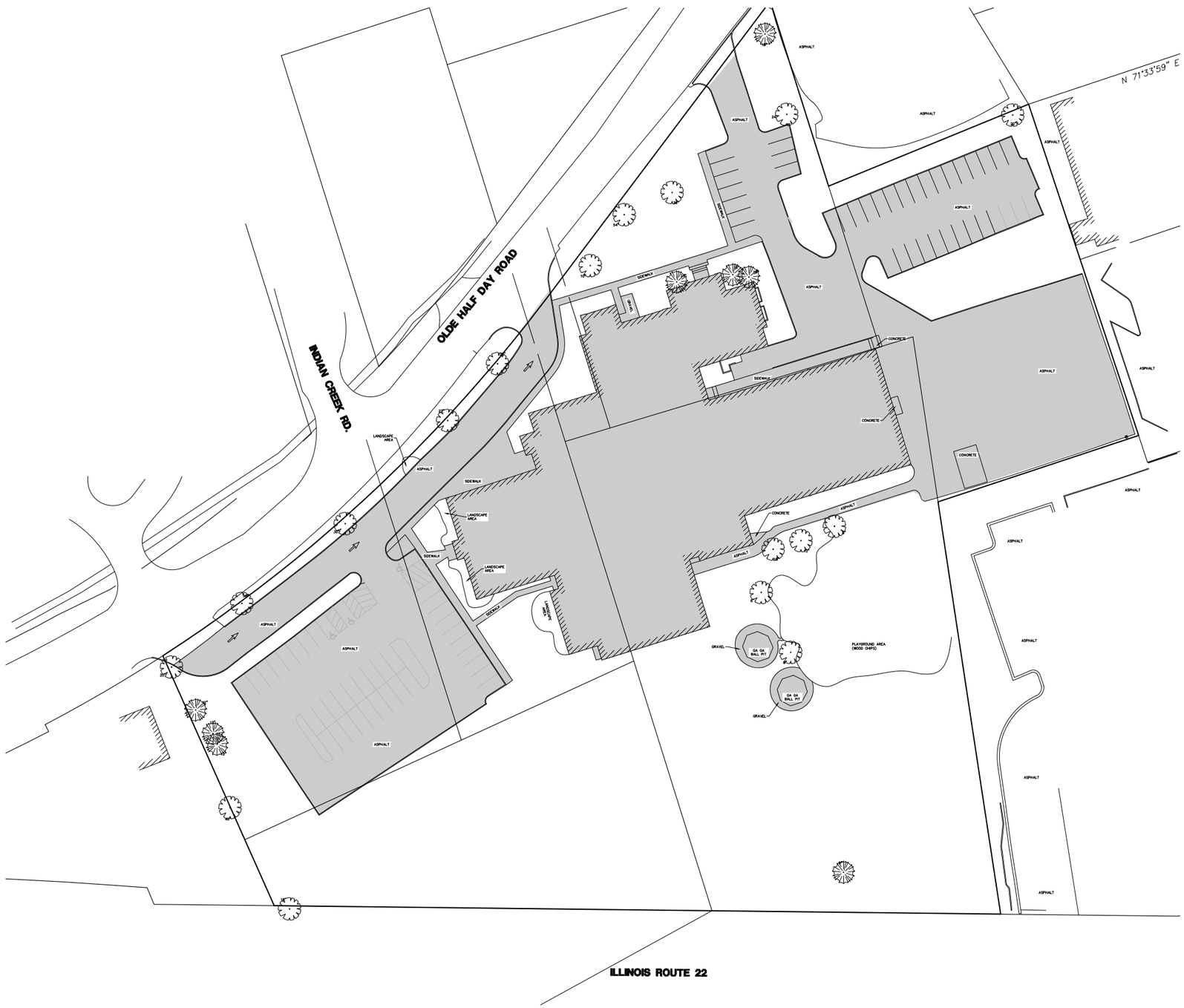
Prepared by:
Wight & Company
2500 North Frontage Road
Darien, IL 60561
630-969-7000

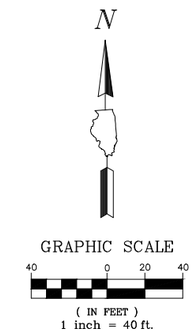
A/E Project No. 02-5467-06

Village of Lincolnshire
Zoning Board Submittal Packet
Lincolnshire – Prairie View School District 103
Additions to Half Day School

Impervious Surface Drawings

January 8, 2016





TOTAL PROPERTY AREA - 5.91 ACRES
PRE-1992 IMPERVIOUS AREA - 2.06 ACRES
CURRENT IMPERVIOUS AREA - 2.78 ACRES

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

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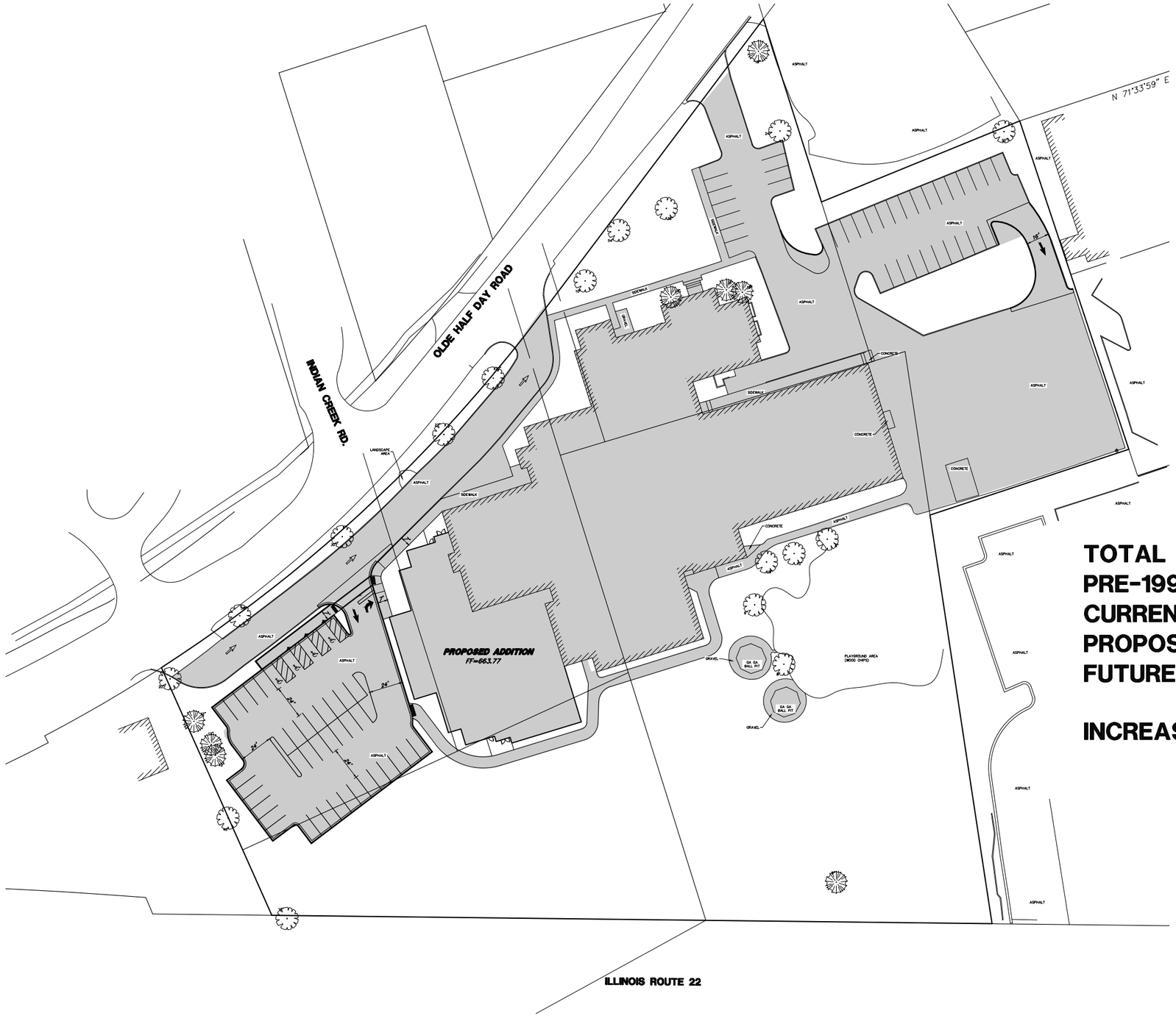
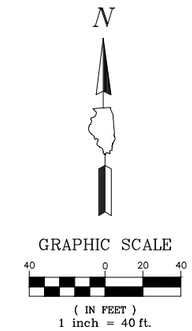
IMPERVIOUS SURFACE - EXISTING

HALF DAY INTERMEDIATE SCHOOL IMPROVEMENTS
PRAIRIEVIEW SCHOOL DISTRICT 103
LINCOLNSHIRE, ILLINOIS

NO.	BY	DATE	REVISION	NO.	BY	DATE	REVISION

FILE: Drainage.dwg
DRAWN BY: MXH
DATE: 12/29/15
GHA PROJECT #: 4521.100
CHECKED BY: KAJ
DATE: 12/29/15
SCALE: 1"=40'
SHEET NUMBER: 1 OF 2 SHEETS





TOTAL PROPERTY AREA - 5.91 ACRES
PRE-1992 IMPERVIOUS AREA - 2.06 ACRES
CURRENT IMPERVIOUS AREA - 2.78 ACRES
PROPOSED IMPERVIOUS AREA - 3.05 ACRES
FUTURE PLAYGROUND IMPERVIOUS AREA - 3.27 ACRES

INCREASE IN IMPERVIOUS AREA SINCE 1992 - 1.21 ACRES

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IMPERVIOUS SURFACE - PROPOSED

HALF DAY INTERMEDIATE SCHOOL IMPROVEMENTS
PRAIRIEVIEW SCHOOL DISTRICT 103
LINCOLNSHIRE, ILLINOIS

NO.	BY	DATE	REVISION	NO.	BY	DATE	REVISION

FILE: Drainage.dwg
DRAWN BY: MXH DATE: 12/29/15
GHA PROJECT # 4521.100
CHECKED BY: KAJ DATE: 12/29/15
SCALE: 1"=40'
SHEET NUMBER: 2 OF 2 SHEETS

Village of Lincolnshire
Zoning Board Submittal Packet
Lincolnshire – Prairie View School District 103
Additions to Half Day School

Civil Drawings

January 8, 2016

STANDARD SYMBOLS

FEATURE	EXISTING	PROPOSED
BUFFALO BOX		
BUSH/SHRUB		
CATCH BASIN		
CLEANOUT	CO	C.O.
COMBINE SEWER LINE	C	C
CONTOUR	708	708
CULVERT		
DITCH/SWALE		
ELECTRIC LINE	E	E
ELECTRIC MANHOLE		
FENCE	X X X X	X X X X
FIRE HYDRANT		
FLARED END SECTION		
GAS LINE	G	G
GAS MANHOLE		
GAS VALVE		
INLET		
LIGHT POLE		
OVERHEAD WIRES	A	A
POWER POLE		
R.O.W LINE		
R.O.W MARKER		
SANITARY FORCEMAIN LINE		
SANITARY SEWER LINE		
SANITARY SEWER MANHOLE		
SIGN		
SPOT ELEVATION	x850.00	x850.0
STORM SEWER LINE		
STORM SEWER MANHOLE		
TELEPHONE LINE	T	T
TELEPHONE MANHOLE		
TELEPHONE BOX/PEDESTAL		
TREE-CONIFEROUS (SIZE/TAG#)	345	345
TREE-DECIDUOUS (SIZE/TAG#)	12"	12"
VALVE BOX		
VALVE VAULT		
WATER VALVE		
WATERMAIN LINE	W	W

LEGEND

BITUMINOUS SURFACE REMOVAL 2" COLD MILL	
SIDEWALK REMOVAL	
CONCRETE CURB REMOVAL	
SAWCUT	
FENCE REMOVAL	
UTILITY ABANDON	
STRUCTURE REMOVAL	
TREE/SHRUB REMOVAL	
ROOT PRUNE	
CONSTRUCTION FENCE	CF
TREE PROTECTION FENCE	

N

GRAPHIC SCALE

30 0 15 30

(IN FEET)
1 inch = 30 ft.

LEADERS IN LEARNING
LINCOLNSHIRE-PRAIRIE VIEW SCHOOL DISTRICT 103

Wight

Wight & Company
wightco.com
2500 North Frontage Road
Darien, IL 60561
P 630.969.7000
F 630.969.7979

GHA JOB #4521.100

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

REV	DESCRIPTION	DATE

DESCRIPTION	DATE
ZONNING BOARD SUBMITTAL	01.04.2015
COMMITTEE OF THE WHOLE SUBMITTAL	12.04.2015

HALF DAY INTERMEDIATE SCHOOL

2425 RIVERWOODS ROAD
LINCOLNSHIRE, IL 60069

EXISTING CONDITIONS / DEMOLITION PLAN

Project Number:
02-5467-05
Drawn By:
LLM
Sheet:

C1.0

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LEADERS IN LEARNING
LINCOLNSHIRE-PRAIRIE VIEW SCHOOL DISTRICT 103

Wight

Wight & Company
wightco.com
2500 North Frontage Road
Darien, IL 60561
P 630.969.7000
F 630.969.7979

GHA JOB #4521.100

GEWALT HAMILTON ASSOCIATES, INC.
625 Forest Edge Drive ▪ Vernon Hills, IL 60061
Tel 847.478.9700 ▪ Fax 847.478.9701

REV	DESCRIPTION	DATE

DESCRIPTION	DATE
ZONNING BOARD SUBMITTAL	01.04.2015
COMMITTEE OF THE WHOLE SUBMITTAL	12.04.2015

HALF DAY INTERMEDIATE SCHOOL

2425 RIVERWOODS ROAD
LINCOLNSHIRE, IL 60069

PRELIMINARY SITE PLAN

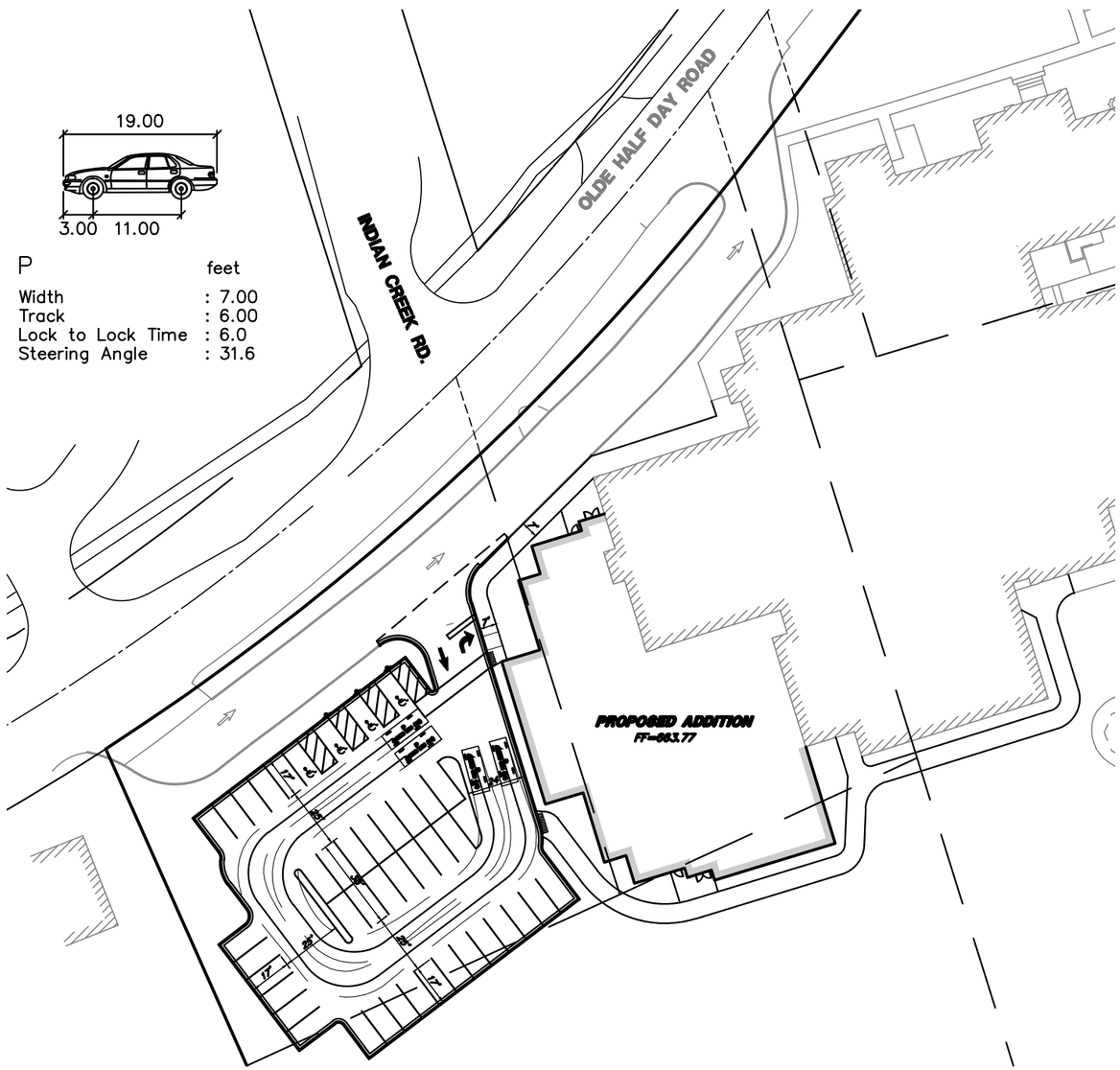
Project Number:
02-5467-05
Drawn By:
LLM
Sheet:

C2.0

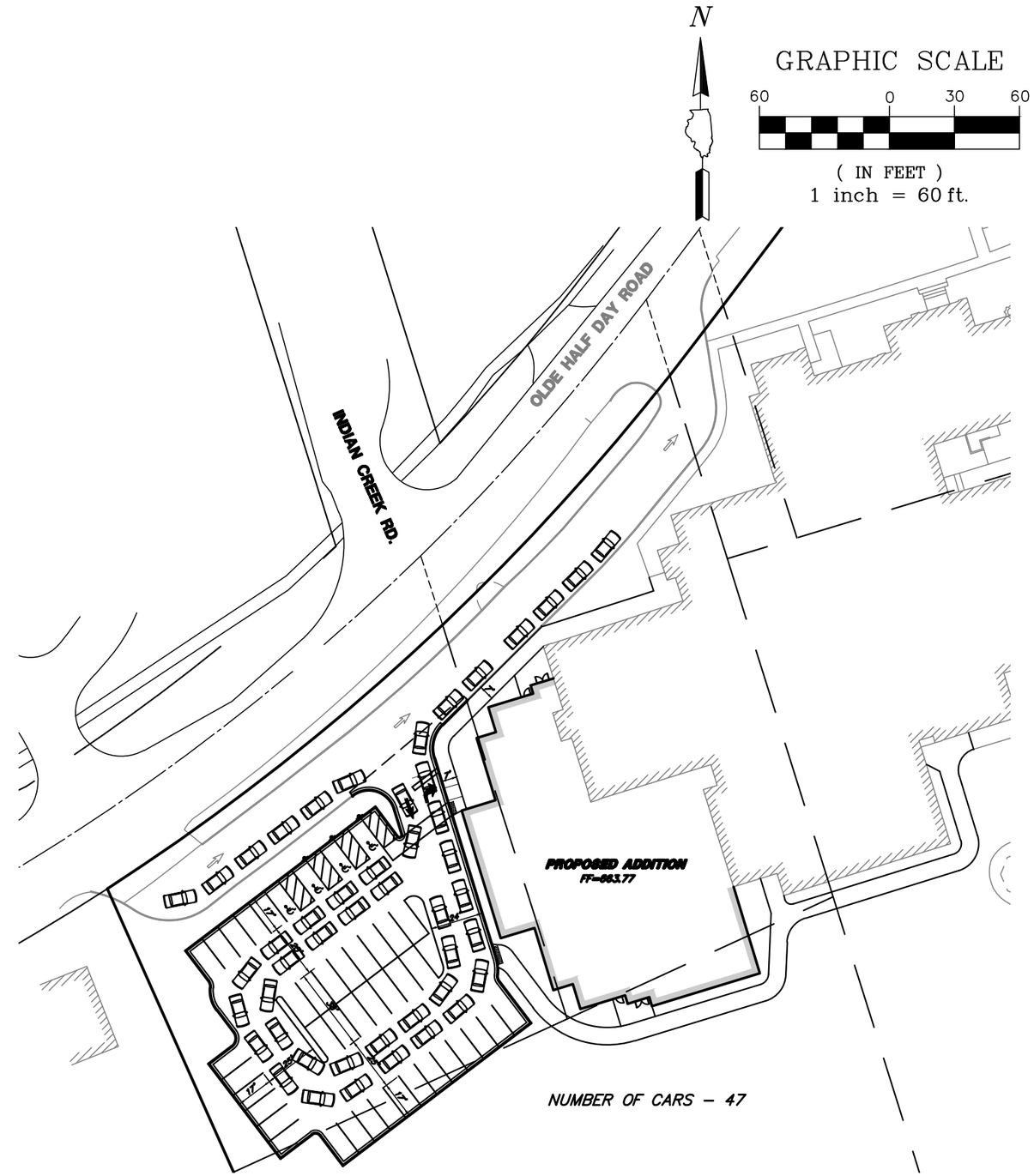
Village of Lincolnshire
Zoning Board Submittal Packet
Lincolnshire – Prairie View School District 103
Additions to Half Day School

Car Stacking / Autoturn Exhibit

January 8, 2016



AUTOTURN EXHIBIT



CAR STACKING EXHIBIT

GHA GEWALT HAMILTON ASSOCIATES, INC.
625 Forest Edge Drive ▪ Vernon Hills, IL. 60061
Tel.: 847.478.9700 ▪ Fax.: 847.478.9701

EXHIBIT 9 - EAST PARKING LOT EXHIBIT

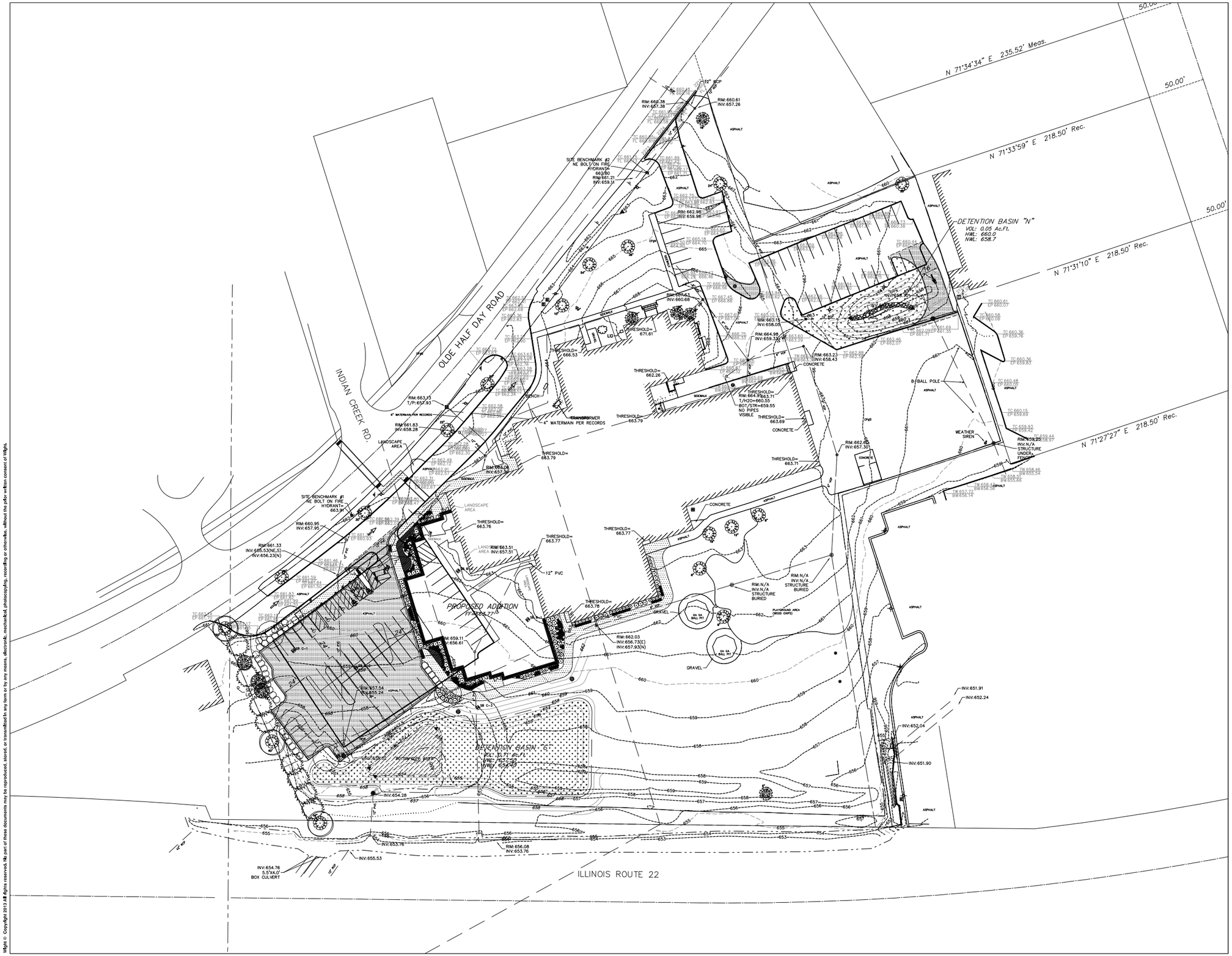
HALF DAY INTERMEDIATE SCHOOL IMPROVEMENTS
PRAIRIEVIEW SCHOOL DISTRICT 103
LINCOLNSHIRE, ILLINOIS

FILE: 4521.100 Half Day – PR1.dwg			
DRAWN BY:	MGFC	GHA PROJECT #	4521.100
DATE:	1/5/16		
CHECKED BY:	DPB	SCALE:	1"=60'

Village of Lincolnshire
Zoning Board Submittal Packet
Lincolnshire – Prairie View School District 103
Additions to Half Day School

Landscape Drawings

January 8, 2016



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625 Forest Edge Drive ▪ Vernon Hills, IL 60061
TEL 847.478.9700 ▪ FAX 847.478.9701

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GRAPHIC SCALE
30 0 15 30 60
1 INCH = 30 FEET

REV	DESCRIPTION	DATE

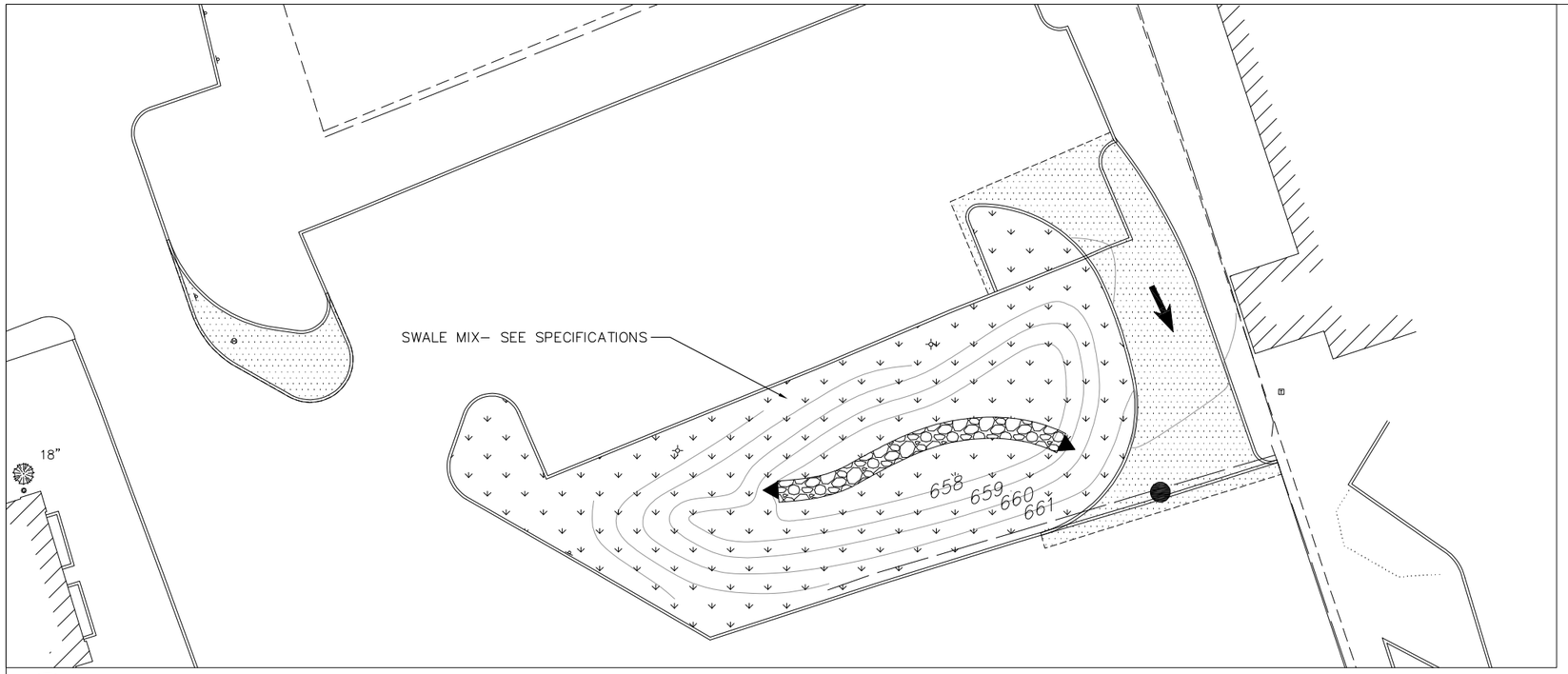
DESCRIPTION	DATE
ZONING BOARD REVISION 1	01.12.2016
ZONING BOARD SUBMITTAL	01.04.2016

HALF DAY INTERMEDIATE SCHOOL

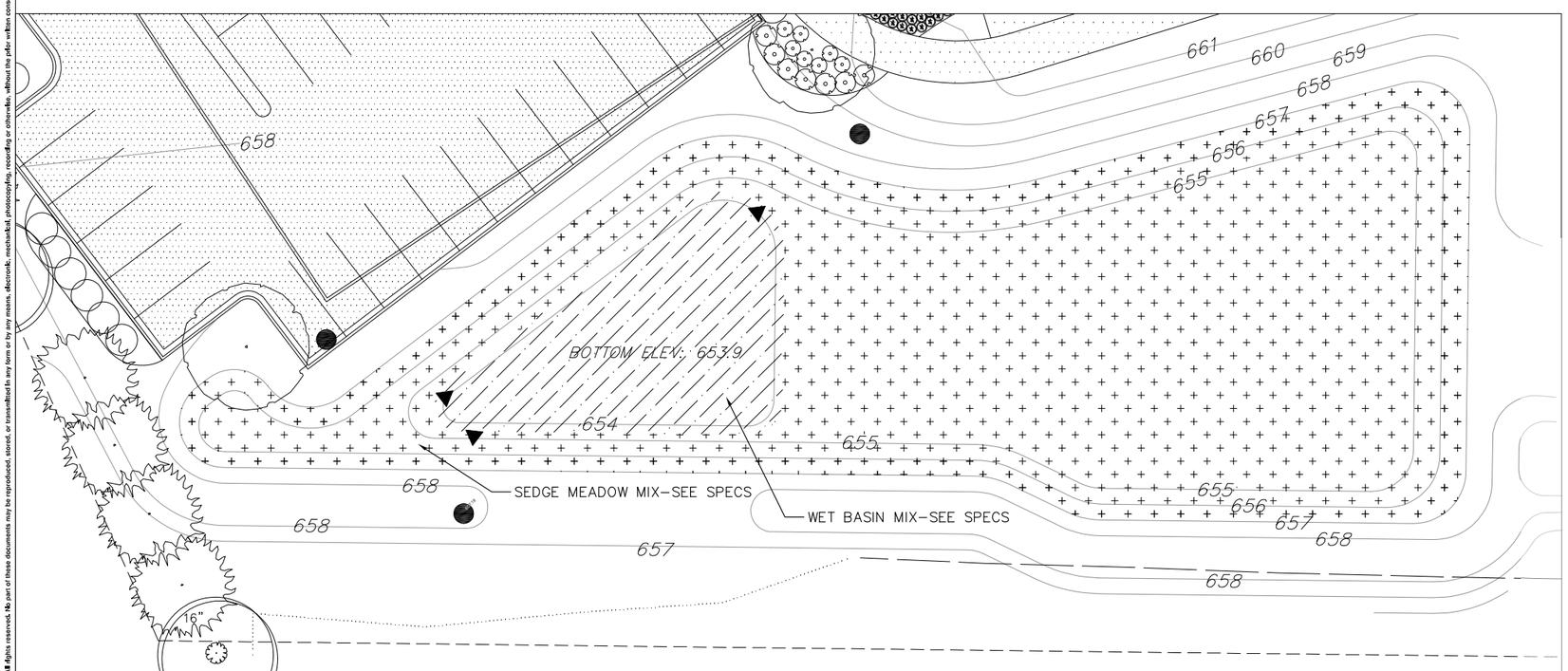
2425 RIVERWOODS ROAD
LINCOLNSHIRE, IL 60069

OVERALL LANDSCAPE PLAN

Project Number:
02-5467-05
Drawn By:
LLM
Sheet:
L1.00



ES1
L1.01
ENLARGED LANDSCAPE PLAN–DETENTION AREA 'N'
SCALE: 1'=10'



ES2
L1.01
ENLARGED LANDSCAPE PLAN–DETENTION AREA 'S'
SCALE: 1'=10'

LEGEND

- CONCRETE SIDEWALK
- HMA PAVEMENT
- PROPOSED CONTOUR — 672
- RIVER COBBLE (4–8" DIA.)
- LOW GROWING SWALE MIX
- WET BASIN MIX
- SEDGE MEADOW MIX
- GROUND COVER
- PROPOSED EVERGREEN TREE
- PROPOSED DECIDUOUS TREE
- PROPOSED LARGE SHRUB (4–8' WIDTH)
- PROPOSED MEDIUM SHRUB (3–4' WIDTH)
- PROPOSED SMALL SHRUB/ GRASS
- PROPOSED PERENNIAL

PLANT SCHEDULE

QTY	KEY	Botanical Name	Common Name	Size	Root	Spacing
SHADE TREES						
3	GIBI	*Ginko biloba 'Princeton Sentry'*	Princeton Sentry Ginkgo	3" caliper	B&B	as shown
1	QUBI	*Quercus bicolor*	Swamp White Oak	3" caliper	B&B	as shown
ORNAMENTAL/ EVERGREEN TREES						
3	ABCO	*Abies concolor*	White Fir	8'	B&B	as shown
5	PIPU	*Picea pungens*	Colorado Blue Spruce	8'	B&B	as shown
EVERGREEN SHRUBS						
	BUGV	*Buxus x 'Green Velvet'*	Green Velvet Boxwood	#5	cont.	as shown
	JUVI	*Juniperus virginiana 'Grey Owl'*	Grey Owl Juniper	36"	B&B	as shown
DECIDUOUS SHRUBS						
	COST	*Cornus stolonifera 'Farrow'*	Arctic Fire Red Twig Dogwood	#5	cont.	as shown
	HYQU	*Hydrangea quercifolia 'Munchkin'*	Munchkin Oakleaf Hydrangea	#5	cont.	as shown
	RHAR	*Rhus aromatica 'Gro-Low'*	Gro-Low Fragrant Sumac	#7	cont.	as shown
	RIAL	*Ribes alpinum*	Alpine Currant	#5	cont.	as shown
	SYPA	*Syringa meyeri 'Palibin'*	Dwarf Korean Lilac	#7	cont.	as shown
PERENNIALS						
	ACOG	*Acorus gramineus 'Ogon'*	Golden Variegated Sweet Flag	#1	cont.	18" o.c.
	ASAR	*Astilbe x arendsii 'Deutschland'*	Deutschland Astilbe	#2	cont.	as shown
	DEGR	*Deutzia gracilis*	Fireworks Fraiser Deutzia	#1	cont	as shown
	COVE	*Coreopsis verticillata 'Moonbeam'*	Moonbeam Coreopsis	#1	cont.	as shown
	EPYO	*Epimedium x youngianum 'Niveum'*	Bishop's Hat	#1	cont.	as shown
	FEGL	*Festuca glauca 'El jah Blue'*	Elijah Blue Fescue	#1	cont.	as shown
	HEOB	*Heuchera x 'Obsidian'*	Obsidian Coral Bells	#1	cont.	as shown
	HOBL	*Hosta x 'Bright Lights'*	Bright Lights Hosta	#2	cont.	as shown
	HOPA	*Hosta x 'Patriot'*	Patriot Hosta	#2	cont.	as shown
	MAST	*Matteuccia struthiopteris*	Ostrich Fern	#2	cont.	as shown
	PAVI	*Panicum virgatum 'Shenandoah'*	Shenandoah Switchgrass	#2	cont.	as shown
	PEAL	*Pennisetum alopecuroides 'Hamelin'*	Dwarf Fountaingrass	#1	cont.	as shown
	SAMA	*Salvia 'May Night'*	May Night Sage	#1	cont.	as shown
GROUNDCOVER						
	COAU	*Coreopsis auriculata 'Nana'*	Dwarf Tickseed	PLG	TRAY	10" o.c.
	OPPL	*Ophiopogon planiscapus 'Ebkni zam'*	Ebony Knight Mondo Grass	PLG	TRAY	10" o.c.
	VIMI	*Vinca minor*	Periwinkle	PLG	TRAY	10" o.c.

LEADERS IN LEARNING
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wightco.com
2500 North Frontage Road
Darien, IL 60561
P 630.969.7000
F 630.969.7979

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

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REV	DESCRIPTION	DATE

DESCRIPTION	DATE
ZONING BOARD REVISION 1	01.12.2016
ZONING BOARD SUBMITTAL	01.04.2016

HALF DAY INTERMEDIATE SCHOOL

2425 RIVERWOODS ROAD
LINCOLNSHIRE, IL 60069

ENLARGED DETENTION AREAS

Project Number:
02-5467-05
Drawn By:
LLM
Sheet:

L1.01

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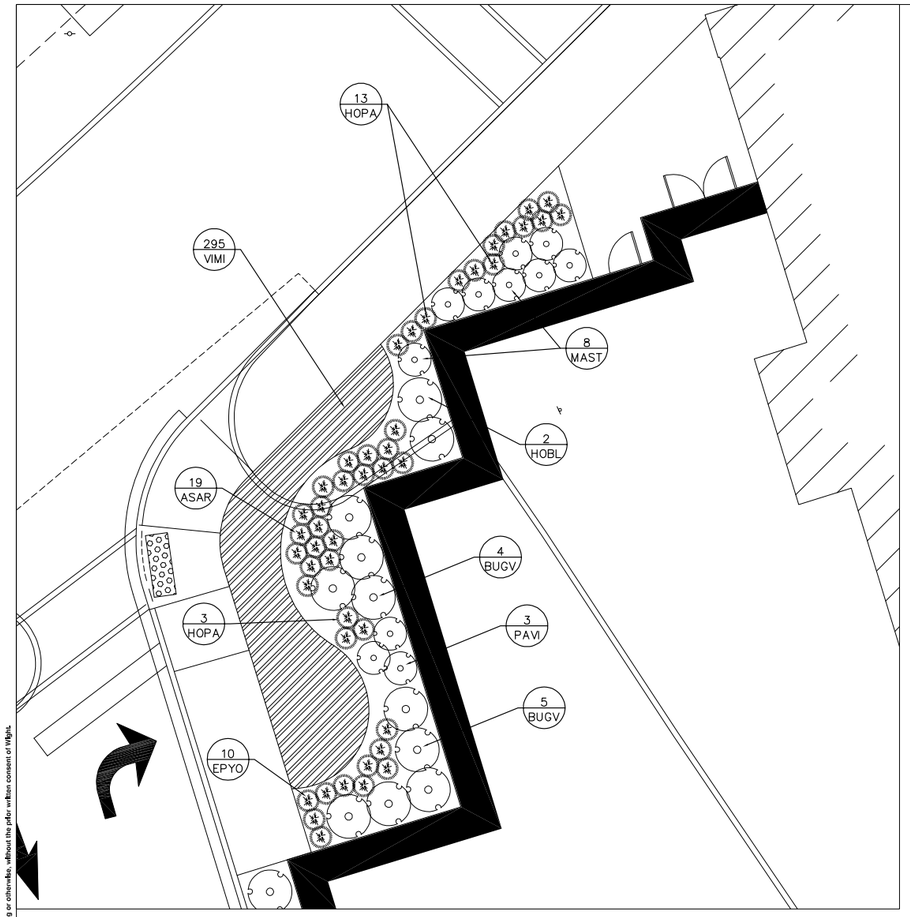
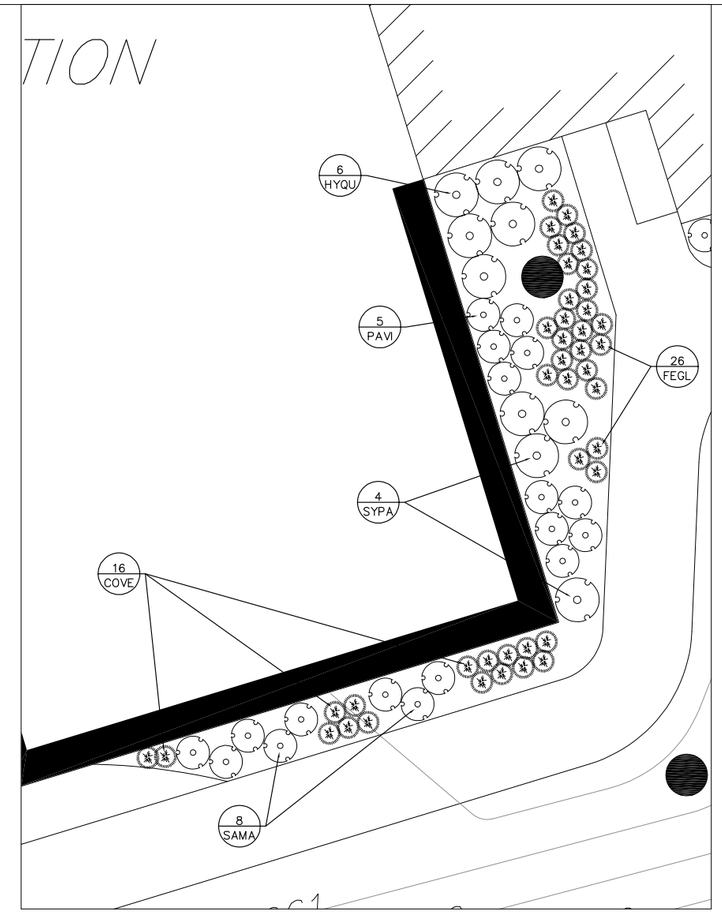


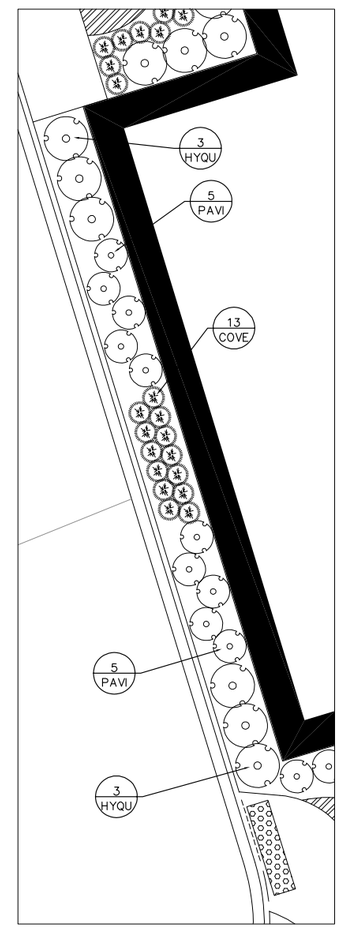
ES3 / L1.02 ENLARGED LANDSCAPE PLAN–FRONT ENTRANCE
SCALE: 1'=5'



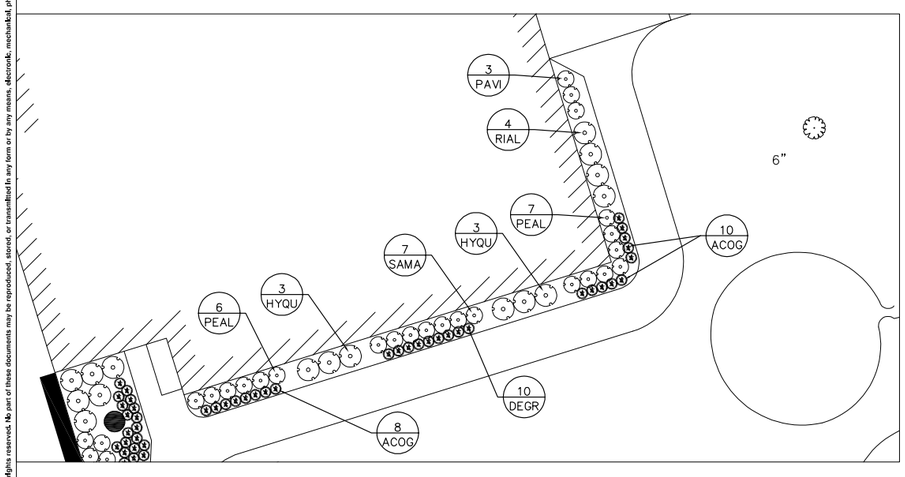
ES5 / L1.02 ENLARGED LANDSCAPE PLAN
SCALE: 1'=5'

LEGEND

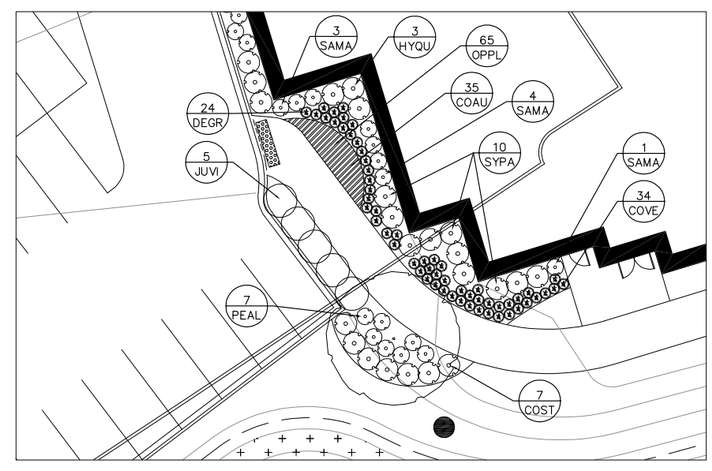
- CONCRETE SIDEWALK
- HMA PAVEMENT
- PROPOSED CONTOUR — 672 —
- RIVER COBBLE (4–8" DIA.)
- LOW GROWING SWALE MIX
- WET BASIN MIX
- SEDGE MEADOW MIX
- GROUND COVER
- PROPOSED EVERGREEN TREE
- PROPOSED DECIDUOUS TREE
- PROPOSED LARGE SHRUB (4–8' WIDTH)
- PROPOSED MEDIUM SHRUB (3–4' WIDTH)
- PROPOSED SMALL SHRUB/ GRASS
- PROPOSED PERENNIAL



ES7 / L1.02 ENLARGED LANDSCAPE PLAN
SCALE: 1'=5'



ES4 / L1.02 ENLARGED LANDSCAPE PLAN
SCALE: 1'=10'



ES6 / L1.02 ENLARGED LANDSCAPE PLAN– SOUTH ENTRANCE
SCALE: 1'=10'

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LINCOLNSHIRE-PRAIRIE VIEW SCHOOL DISTRICT 103

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Wight & Company
wightco.com
2500 North Frontage Road
Darien, IL 60561
P 630.969.7000
F 630.969.7979

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

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REV	DESCRIPTION	DATE

DESCRIPTION	DATE
ZONING BOARD REVISION 1	01.12.2016
ZONING BOARD SUBMITTAL	01.04.2016

HALF DAY INTERMEDIATE SCHOOL

2425 RIVERWOODS ROAD
LINCOLNSHIRE, IL 60069

ENLARGED LANDSCAPE PLANS

Project Number:
02-5467-05
Drawn By:
LLM
Sheet:
L1.02

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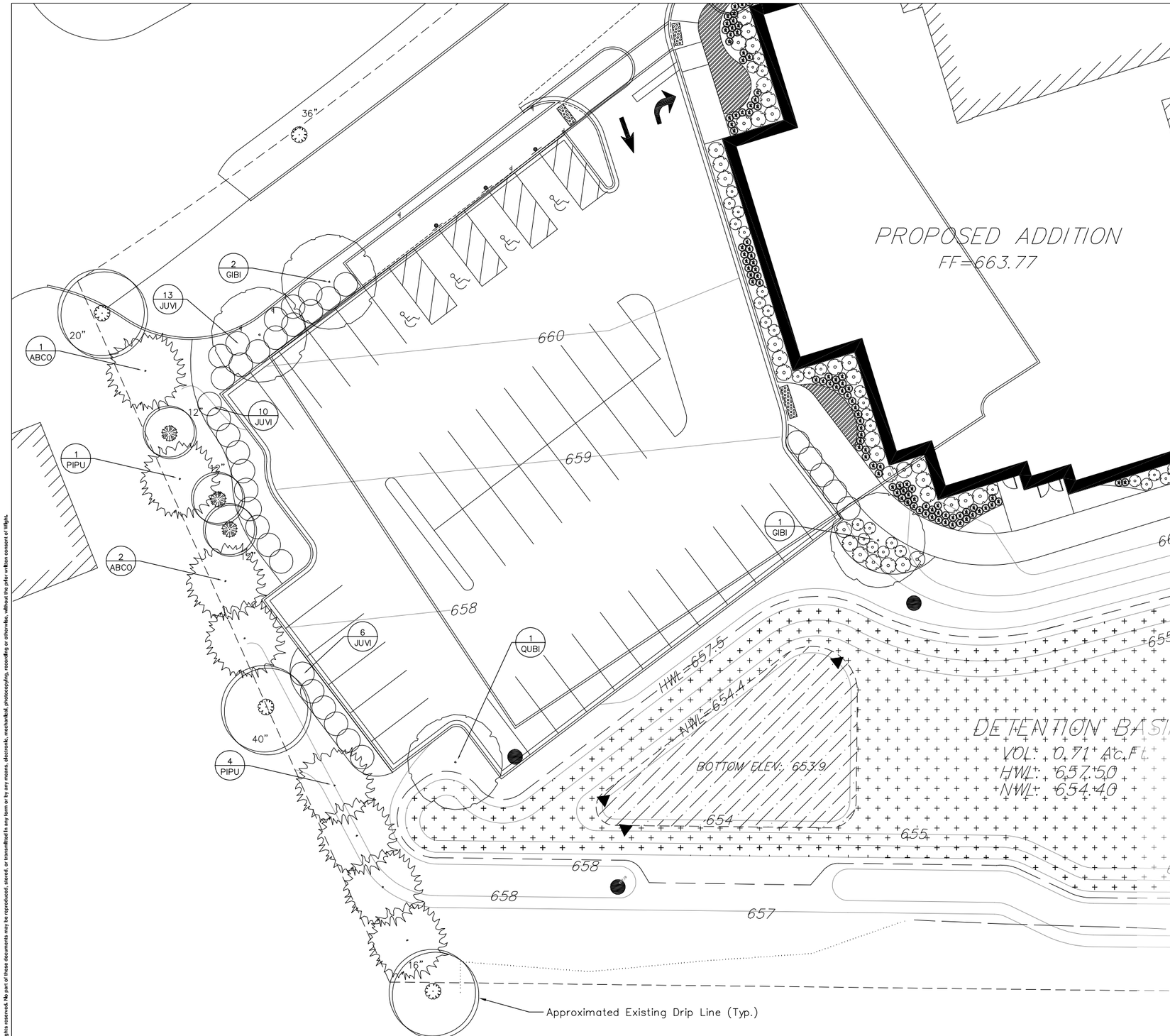

LEGEND

- CONCRETE SIDEWALK
- HMA PAVEMENT
- PROPOSED CONTOUR — 672 —
- RIVER COBBLE (4–8" DIA.)
- LOW GROWING SWALE MIX
- WET BASIN MIX
- SEDGE MEADOW MIX
- GROUND COVER
- PROPOSED EVERGREEN TREE
- PROPOSED DECIDUOUS TREE
- PROPOSED LARGE SHRUB (4–8' WIDTH)
- PROPOSED MEDIUM SHRUB (3–4' WIDTH)
- PROPOSED SMALL SHRUB/ GRASS
- PROPOSED PERENNIAL

PLANT SCHEDULE

QTY	KEY	Botanical Name	Common Name	Size	Root	Spacing
SHADE TREES						
3	GIBI	*Ginko biloba 'Princeton Sentry'*	Princeton Sentry Ginkgo	1" caliper	B&B	as shown
1	QUBI	*Quercus bicolor*	Swamp White Oak	1" caliper	B&B	as shown
ORNAMENTAL/ EVERGREEN TREES						
3	ABCO	*Abies concolor*	White Fir	8'	B&B	as shown
5	PIPU	*Picea pungens*	Colorado Blue Spruce	8'	B&B	as shown
EVERGREEN SHRUBS						
	BUGV	*Buxus x 'Green Velvet'*	Green Velvet Boxwood	#5	cont.	as shown
	JUVI	*Juniperus virginiana 'Grey Owl'*	Gray Owl Juniper	36"	B&B	as shown
DECIDUOUS SHRUBS						
	COST	*Cornus stolonifera 'Farrow'*	Arctic Fire Red Twig Dogwood	#5	cont.	as shown
	HYQU	*Hydrangea quercifolia 'Munchkin'*	Munchkin Oakleaf Hydrangea	#5	cont.	as shown
	RHAR	*Rhus aromatica 'Gro-Low'*	Gro-Low Fragrant Sumac	#7	cont.	as shown
	RIAL	*Ribes alpinum*	Alpine Currant	#5	cont.	as shown
	SYPA	*Syringa meyeri 'Palibin'*	Dwarf Korean Lilac	#7	cont.	as shown
PERENNIALS						
	ACOG	*Acorus gramineus 'Ogon'*	Golden Variegated Sweet Flag	#1	cont.	18" o.c.
	ASAR	*Astilbe x arendsii 'Deutschland'*	Deutschland Astilbe	#2	cont.	as shown
	DEGR	*Deutzia gracilis*	Crème Fraiche Deutzia	#1	cont.	as shown
	COVE	*Coreopsis verticillata 'Moonbeam'*	Moonbeam Coreopsis	#1	cont.	as shown
	EPYO	*Epimedium x youngianum 'Niveum'*	Bishop's Hat	#1	cont.	as shown
	FEGL	*Festuca glauca 'Elijah Blue'*	Elijah Blue Fescue	#1	cont.	as shown
	HEOB	*Heuchera x 'Obsidian'*	Obsidian Coral Bells	#1	cont.	as shown
	HOBL	*Hosta x 'Bright Lights'*	Bright Lights Hosta	#2	cont.	as shown
	HOPA	*Hosta x 'Patriot'*	Patriot Hosta	#2	cont.	as shown
	MAST	*Matteuccia struthiopteris*	Ostrich Fern	#2	cont.	as shown
	PAVI	*Panicum virgatum 'Shenandoah'*	Shenandoah Switchgrass	#2	cont.	as shown
	PEAL	*Pennisetum alopecuroides 'Hameln'*	Dwarf Fountaingrass	#1	cont.	as shown
	SAMA	*Salvia 'May Night'*	May Night Sage	#1	cont.	as shown
GROUNDCOVER						
	CDAU	*Coreopsis auriculata 'Nana'*	Dwarf Tickseed	PLG	TRAY	10" o.c.
	OPFL	*Ophiopogon planiscapus 'Ebknizam'*	Ebony Knight Mondo Grass	PLG	TRAY	10" o.c.
	VIMI	*Vinca minor*	Periwinkle	PLG	TRAY	10" o.c.

TP1
L1.03

ENLARGED TREE PLAN– WEST PROPERTY LINE SCREENING

SCALE: 1"=10'

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LINCOLNSHIRE-PRAIRIE VIEW SCHOOL DISTRICT 103

Wight
Wight & Company
wightco.com
2500 North Frontage Road
Darien, IL 60561
P 630.969.7000
F 630.969.7979

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TEL 847.478.9700 • FAX 847.478.9701

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REV	DESCRIPTION	DATE
	ZONING BOARD REVISION 1	01.12.2016
	ZONING BOARD SUBMITTAL	01.04.2016
	DESCRIPTION	DATE

HALF DAY INTERMEDIATE SCHOOL

2425 RIVERWOODS ROAD
LINCOLNSHIRE, IL 60069

TREE PLAN

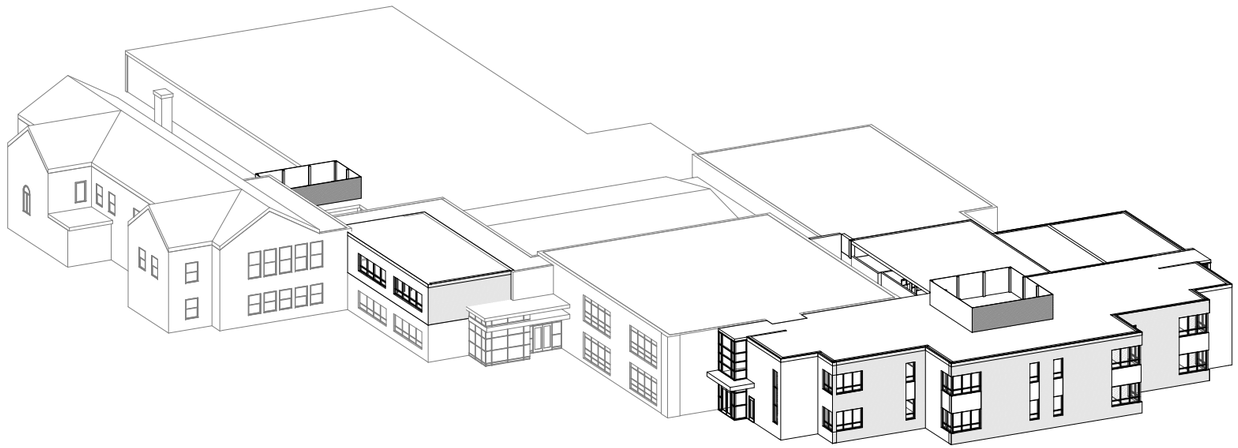
Project Number:
02-5467-05
Drawn By:
LLM
Sheet:

L1.03

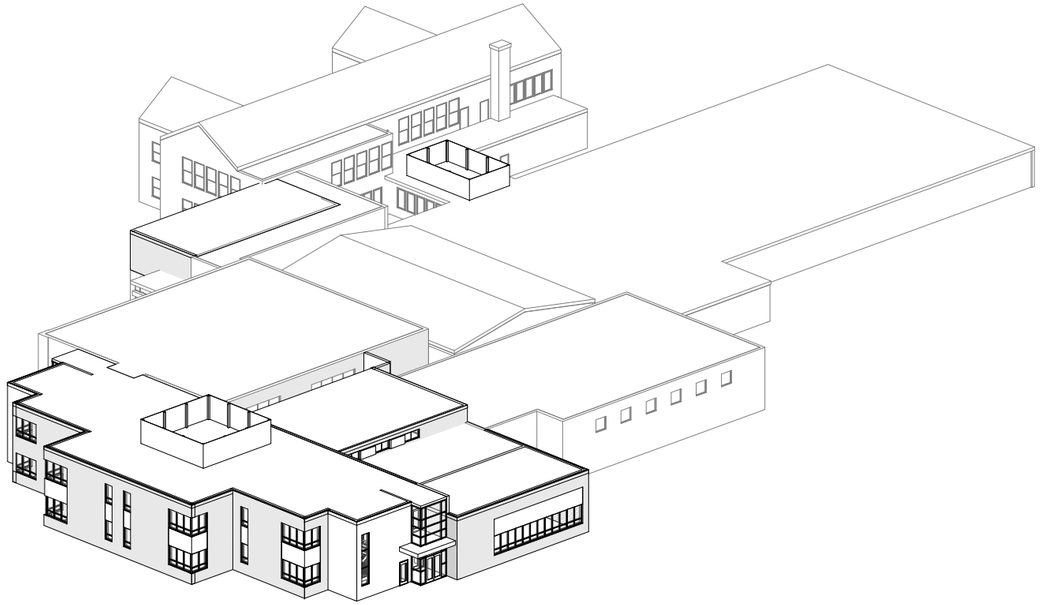
Village of Lincolnshire
Zoning Board Submittal Packet
Lincolnshire – Prairie View School District 103
Additions to Half Day School

3D Massing Views

January 8, 2016



1
H-A3.2
3-D MASSING
VIEW FROM NORTHWEST
SCALE:



2
H-A3.2
3-D MASSING
VIEW FROM SOUTHWEST
SCALE:

SCALE: 1/16" = 1' - 0"	SCALE: 1/8" = 1' - 0"	SCALE: 1/4" = 1' - 0"	SCALE: 3/8" = 1' - 0"	SCALE: 1/2" = 1' - 0"	SCALE: 3/4" = 1' - 0"	SCALE: 1" = 1' - 0"	SCALE: 1 1/2" = 1' - 0"	SCALE: 3" = 1' - 0"
0' 8' - 0" 16' - 0" 32' - 0"	0' 4' - 0" 8' - 0" 16' - 0"	0' 2' - 0" 4' - 0" 8' - 0"	0' 2' - 0" 4' - 0" 8' - 0"	0' 1' - 0" 2' - 0" 4' - 0"	0' 1' - 0" 2' - 0" 4' - 0"	0' 6" 1' - 0" 2' - 0"	0' 6" 1' - 0" 2' - 0"	0' 3" 6" 1' - 0"

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P 630.969.7000
F 630.969.7979

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REV	DESCRIPTION	DATE
	ZONING BOARD SUBMITTAL	01.04.2016
	DESCRIPTION	DATE

HALF DAY INTERMEDIATE SCHOOL

239 OLDE HALF DAY ROAD
LINCOLNSHIRE, IL 60069

3-D MASSING MODEL

Project Number:
02-5467-05
Drawn By:
Author
Sheet:
H-A3.2

1/4/2016 2:14:03 PM
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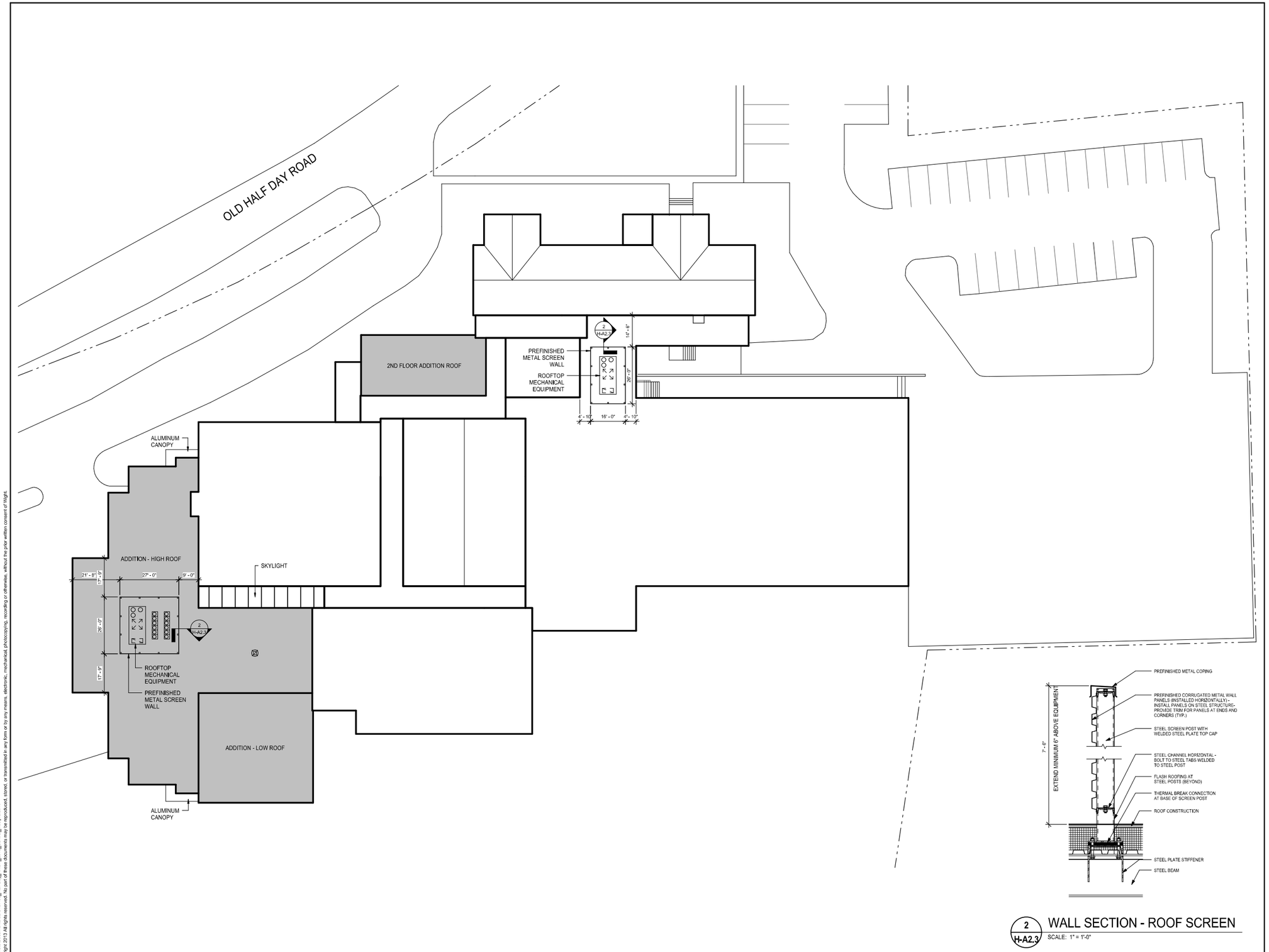
Village of Lincolnshire
Zoning Board Submittal Packet
Lincolnshire – Prairie View School District 103
Additions to Half Day School

Architectural Drawings

January 8, 2016



2 H-A2.3 WALL SECTION - ROOF SCREEN
SCALE: 1" = 1'-0"

SCALE: 1/16" = 1' - 0" 0' 8' - 0" 16' - 0" 32' - 0"
SCALE: 1/8" = 1' - 0" 0' 4' - 0" 8' - 0" 16' - 0"
SCALE: 1/4" = 1' - 0" 0' 2' - 0" 4' - 0" 8' - 0"
SCALE: 3/8" = 1' - 0" 0' 2' - 0" 4' - 0" 8' - 0"
SCALE: 1/2" = 1' - 0" 0' 1' - 0" 2' - 0" 4' - 0"
SCALE: 3/4" = 1' - 0" 0' 1' - 0" 2' - 0" 4' - 0"
SCALE: 1" = 1' - 0" 0' 6" 1' - 0" 2' - 0"
SCALE: 1 1/2" = 1' - 0" 0' 6" 1' - 0" 2' - 0"
SCALE: 3" = 1' - 0" 0' 3" 6" 1' - 0"

14/2016 9:07:41 AM
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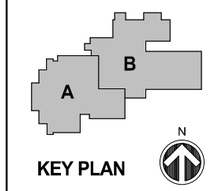


KEY PLAN

NOT FOR CONSTRUCTION

REV	DESCRIPTION	DATE
	ZONING BOARD SUBMITTAL	01.04.2016
	COMMITTEE OF THE WHOLE SUBMITTAL	12.04.2015
	DESCRIPTION	DATE

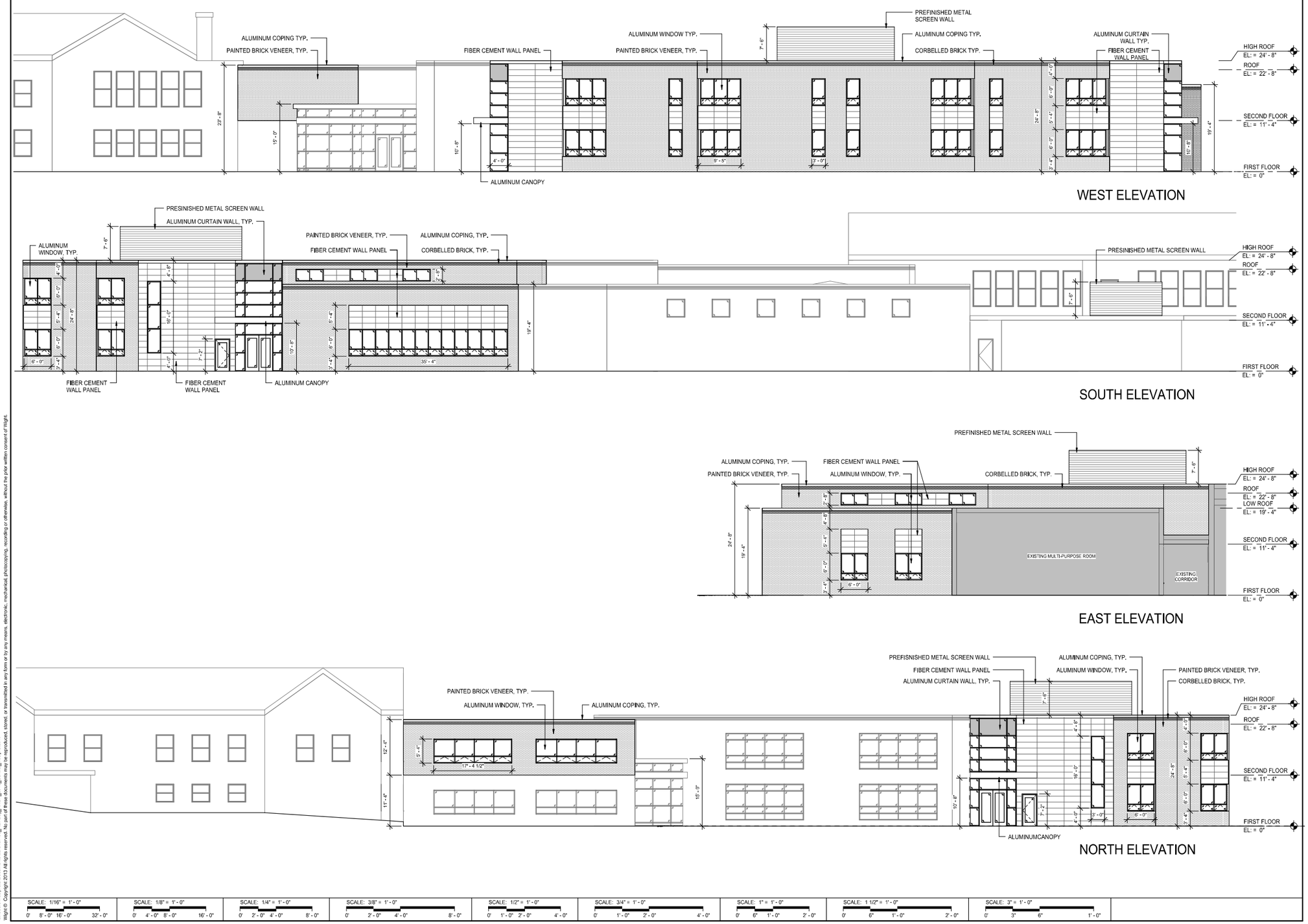
HALF DAY INTERMEDIATE SCHOOL

239 OLDE HALF DAY ROAD
LINCOLNSHIRE, IL 60069

ROOF PLAN

Project Number: 02-5467-05
Drawn By: Author
Sheet:

H-A2.3



WEST ELEVATION

SOUTH ELEVATION

EAST ELEVATION

NORTH ELEVATION

SCALE: 1/16" = 1' - 0" | SCALE: 1/8" = 1' - 0" | SCALE: 1/4" = 1' - 0" | SCALE: 3/8" = 1' - 0" | SCALE: 1/2" = 1' - 0" | SCALE: 3/4" = 1' - 0" | SCALE: 1" = 1' - 0" | SCALE: 1 1/2" = 1' - 0" | SCALE: 3" = 1' - 0"

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P 630.969.7000
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REV	DESCRIPTION	DATE
	ZONING BOARD SUBMITTAL	01.04.2016
	COMMITTEE OF THE WHOLE SUBMITTAL	12.04.2015
	DESCRIPTION	DATE

HALF DAY INTERMEDIATE SCHOOL

239 OLDE HALF DAY ROAD
LINCOLNSHIRE, IL 60069

EXTERIOR ELEVATIONS

Project Number:
02-5467-05
Drawn By:
Author
Sheet:
H-A3.0

12/23/2015 2:45:49 PM
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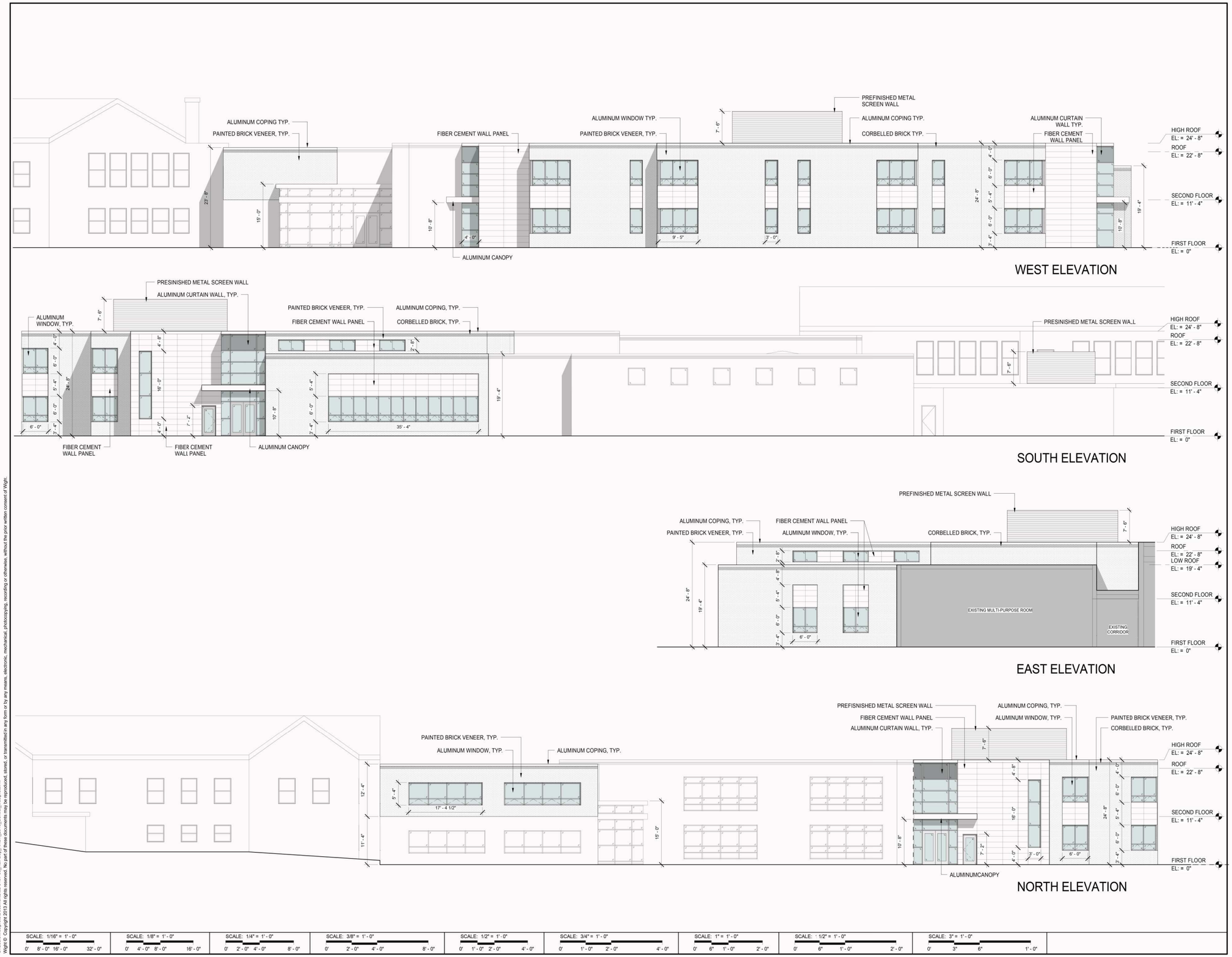

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REV	DESCRIPTION	DATE
	ZONING BOARD SUBMITTAL	01.04.2016

HALF DAY INTERMEDIATE SCHOOL

239 OLDE HALF DAY ROAD
LINCOLNSHIRE, IL 60069

EXTERIOR ELEVATION RENDERINGS

Project Number:
02-5467-05
Drawn By:
Author
Sheet:
H-A3.1

Village of Lincolnshire
Zoning Board Submittal Packet
Lincolnshire – Prairie View School District 103
Additions to Half Day School

Site Photometrics

January 8, 2016

LUMINAIRE SCHEDULE

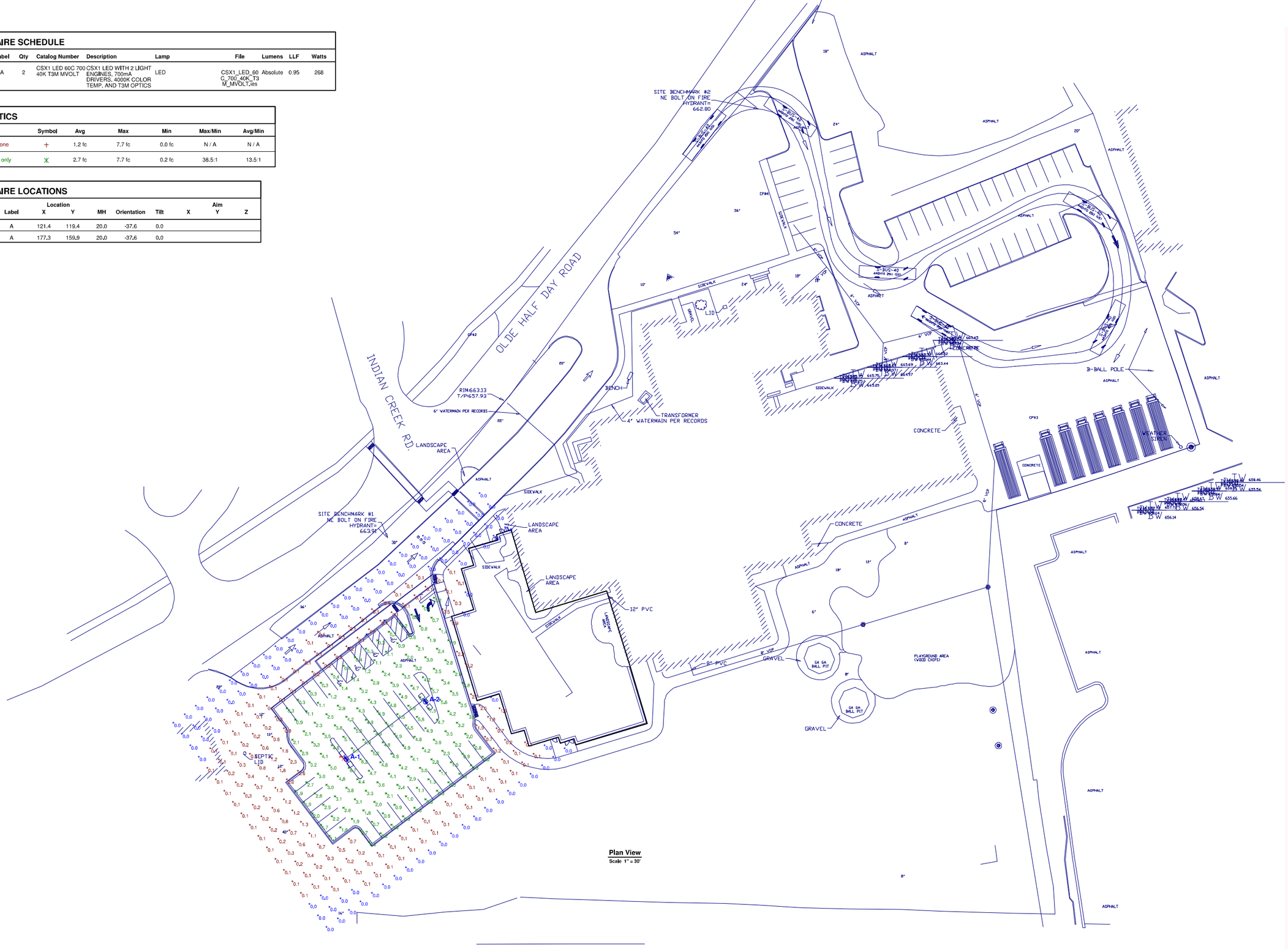
Symbol	Label	Qty	Catalog Number	Description	Lamp	File	Lumens	LLF	Watts
	A	2	CSX1 LED 60C 700 40K T3M MVOLT	CSX1 LED WITH 2 LIGHT ENGINES, 700mA DRIVERS, 4000K COLOR TEMP, AND T3M OPTICS	LED	CSX1_LED_60C_700_40K_T3M_MVOLT.ies	Absolute	0.95	268

STATISTICS

Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
Entire Calc Zone	+	1.2 fc	7.7 fc	0.0 fc	N / A	N / A
Parking Area only	X	2.7 fc	7.7 fc	0.2 fc	38.5:1	13.5:1

LUMINAIRE LOCATIONS

No.	Label	Location X	Location Y	MH	Orientation	Tilt	Aim X	Aim Y	Aim Z
1	A	121.4	119.4	20.0	-37.6	0.0			
2	A	177.3	159.9	20.0	-37.6	0.0			



LEADERS IN LEARNING
LINCOLNSHIRE-PRAIRIE VIEW SCHOOL DISTRICT 103

Wight

Wight & Company
wightco.com
2500 North Frontage Road
Darien, IL 60561
P 630.969.7000
F 630.969.7979

NOT FOR CONSTRUCTION

REV	DESCRIPTION	DATE
	ZONING BOARD SUBMITTAL	01.04.2016

HALF DAY INTERMEDIATE SCHOOL

239 OLDE HALF DAY ROAD
LINCOLNSHIRE, IL 60069

SITE PHOTOMETRICS

Project Number:
02-5467-05
Drawn By:
Author
Sheet:

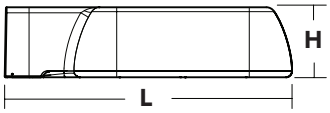
CSX1 LED
LED Area Luminaire

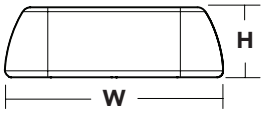
Catalog Number	CSX1 LED 60C 700 40K T3M MVOLT
Notes	SPA 20'
Type	A

Hit the Tab key or mouse over the page to see all interactive elements.

Specifications

EPA:	0.7 ft² (0.07 m²)
Length:	23-1/2" (59.7 cm)
Width:	18-1/2" (46.9cm)
Height:	5-7/8" (14.9 cm)
Weight (max):	37 lbs (16.8 kg)





Introduction

The Contour® Series luminaires offer traditional square dayforms with softened edges for a versatile look that complements many applications.

The CSX1 combines the latest in LED technology with the familiar aesthetic of the Contour® Series for stylish, high-performance illumination that lasts. It is ideal for replacing traditional metal halide in area lighting applications with typical energy savings of 65% and expected service life of over 100,000 hours.

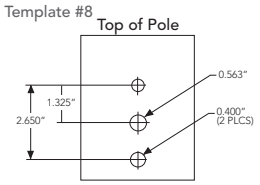
Ordering Information

EXAMPLE: CSX1 LED 60C 1000 40K T3M MVOLT SPA DDBXD

CSX1 LED	60C							
Series	**LEDs**	**Drive current**	**Color temperature**	**Distribution**	**Voltage**	**Mounting**	**Options**	**Finish** *(required)*
CSX1 LED	60C 60 LEDs	700 700 mA 1000 1000 mA (1 A)	40K 4000 K 50K 5000 K	T2M Type II T3M Type III T4M Type IV T5M Type V TFTM Forward throw	MVOLT [1] 120 [1] 208 [1] 240 [1] 277 [1] 347 480	**Shipped included** SPA Square pole mounting RPA Round pole mounting WBA Wall bracket **Shipped Separately** [2] SPUMBA Square pole universal mounting adaptor [3] RPUMBA Round pole universal mounting adaptor [3] KMA8 DDBXD U Mast arm mounting bracket adaptor (specify finish) [4]	**Shipped installed** PER NEMA twist-lock receptacle only (no controls) DCR Dimmable and controllable via ROAM® (no controls) [5] DMG 0-10V dimming driver (no controls) [6] HS House-side shield [2] SF Single fuse (120, 277, 347V) [7] DF Double fuse (208, 240, 480V) [7] DS Dual switching [8,9] 2ELED Emergency LED secondary source (2 modules) battery pack (-20°C min. operating temperature) BL30 Bi-level switched dimming, nominal 30% [9,10] BL50 Bi-level switched dimming, nominal 50% [9,10] **Shipped separately** [2] VG Vandal guard BS Bird-deterrant spikes	DDBXD Dark bronze DBLXD Black DNAXD Natural aluminum DWHXD White DDBTXD Textured dark bronze DBLBXD Textured black DNATXD Textured natural aluminum DWHGXD Textured white

Drilling

Template #8



CSX1 shares a unique drilling pattern with the AERIS™ family. Specify this drilling pattern when specifying poles.

DM19AS	Single unit	**DM29AS**	2 at 90° *
DM28AS	2 at 180°	**DM39AS**	3 at 90° *
DM49AS	4 at 90° *	**DM32AS**	3 at 120° **

Example: SSA 20 4C **DM19AS** DDBXD

Visit Lithonia Lighting's POLES CENTRAL to see our wide selection of poles, accessories and educational tools.

**Round pole top must be 3.25" O.D. minimum.*
***For round pole mounting (RPA) only.*

Accessories

Ordered and shipped separately.

DLL127F 1.5 JU	Photocell - SSL twist-lock (120-277V) [11]
DLL347F 1.5 CUL JU	Photocell - SSL twist-lock (347V) [11]
DLL480F 1.5 CUL JU	Photocell - SSL twist-lock (480V) [11]
SC U	Shorting cap [11]
KMA8 DDBXD U	Mast arm mounting bracket adaptor (specify finish) [4]
PUMBA DDBXD U*	Round and square pole universal mounting bracket adaptor (specify finish)
CSX1HS U	House-side shield (includes 2 shields)
CSX1VG U	Vandal guard accessory
CSX1BS U	Bird-deterrent spikes accessory

For more control options, visit DTL and ROAM online.

Tenon Mounting Slipfitter**

Tenon O.D.	Single Unit	2 at 180°	2 at 90°	3 at 120°	3 at 90°	4 at 90°
2-3/8"	AST20-190	AST20-280	AST20-290	AST20-320	AST20-390	AST20-490
2-7/8"	AST25-190	AST25-280	AST25-290	AST25-320	AST25-390	AST25-490
4"	AST35-190	AST35-280	AST35-290	AST35-320	AST35-390	AST35-490

NOTES

1. MVOLT driver operates on any line voltage from 120-277V (50/60 Hz). Specify 120, 208, 240 or 277 options only when ordering with fusing (SF, DF options).
2. Also available as a separate accessory; see Accessories information at left.
3. 1.5 G vibration load rating per ANCI C136.31.
4. Requires "SPA" mounting option. Must be ordered as a separate accessory; see Accessories information. For use with 2-3/8" mast arm (not included).
5. Specifies a ROAM® enabled luminaire with 0-10V dimming capability; PER option required. Not available with 347 or 480V. Add'l hardware and services required for ROAM® deployment; call 1-800-442-6745.
6. Not available with 347 or 480V.
7. Single fuse (SF) requires 120, 277 or 347 voltage option. Double fuse (DF) requires 208, 240 or 480 voltage option.
8. Provides 50% dimming capability via two independent drivers, each operating half the luminaire. Available with MVOLT and two light engines only. N/A with PER, DCR, DMG or 2ELED.
9. Requires an additional switched line.
10. Dimming driver standard. MVOLT only. Not available with DCR.
11. Requires luminaire to be specified with PER option. Ordered and shipped as a separate line item.

LITHONIA LIGHTING
One Lithonia Way • Conyers, Georgia 30012 • Phone: 800.279.8041 • Fax: 770.918.1209 • www.lithonia.com
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Performance Data

Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts. Contact factory for performance data on any configurations not shown here.

LEDs	Drive Current (mA)	Performance Package	System Watts	Dist. Type	40K (4000 K, 70 CRI)					50K (5000 K, 67 CRI)				
					Lumens	B	U	G	LPW	Lumens	B	U	G	LPW
60C (60 LEDs)	700 mA	60C 700 --K	134W	T2M	13,662	3	0	3	102	14,651	3	0	3	109
				T3M	14,461	3	0	3	108	15,508	3	0	3	116
				T4M	14,441	2	0	3	108	15,486	3	0	3	116
				T5M	14,494	4	0	2	108	15,543	4	0	2	116
				TFTM	14,643	2	0	3	109	15,703	2	0	3	117
	1000 mA	60C 1000 --K	209W	T2M	17,652	3	0	3	84	19,028	3	0	3	91
				T3M	18,684	3	0	3	89	20,141	3	0	4	96
				T4M	18,658	3	0	4	89	20,113	3	0	4	96
				T5M	18,726	5	0	3	90	20,187	5	0	3	97
				TFTM	18,919	3	0	3	91	20,395	3	0	4	98

Lumen Ambient Temperature (LAT) Multipliers

Use these factors to determine relative lumen output for average ambient temperatures from 0-40°C (32-104°F).

Ambient		Lumen Multiplier
0°C	32°F	1.02
10°C	50°F	1.01
20°C	68°F	1.00
25°C	**77°F**	**1.00**
30°C	86°F	1.00
40°C	104°F	0.99

Projected LED Lumen Maintenance

Data references the extrapolated performance projections for the **CSX1 LED 60C** platform in a **25°C ambient**, based on 10,000 hours of LED testing (tested per IESNA LM-80-08 and projected per IESNA TM-21-11).

To calculate LLF, use the lumen maintenance factor that corresponds to the desired number of operating hours below. For other lumen maintenance values, contact factory.

Operating Hours	0	25,000	50,000	100,000
Lumen Maintenance Factor	1.0	0.94	0.90	0.83

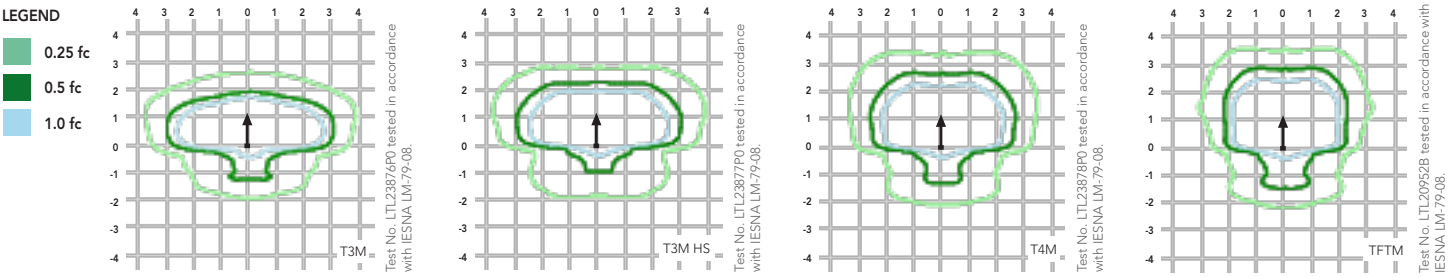
Electrical Load

Number of LEDs	Drive Current (mA)	System Watts	Current (A)					
			120V	208V	240V	277V	347V	480V
60C	700	134W	1.321	0.756	0.659	0.580	0.462	0.337
	1000	209W	2.068	1.198	1.056	0.943	0.764	0.605

Photometric Diagrams

To see complete photometric reports or download .ies files for this product, visit Lithonia Lighting's CSX1 homepage.

Isofootcandle plots for the CSX1 LED 60C 1000 40K. Distances are in units of mounting height (20').



FEATURES & SPECIFICATIONS

INTENDED USE

The Contour Series LED area luminaire is ideal for streets, walkways, parking lots, and surrounding areas that call for high-performance LED lighting in a transitional dayform.

CONSTRUCTION

Single-piece die cast housing has a unique flow-through design that allows for optimized thermal management through convective cooling. A metallic screen covers the top of the housing, preventing debris build-up while allowing natural cleaning of the heat sinks. Modular design allows for ease of maintenance and future light engine upgrades. The LED driver and electronics are thermally isolated from the light engine(s), ensuring long life. Housing is completely sealed against moisture and environmental contaminants.

FINISH

Exterior parts are protected by a zinc-infused Super Durable TGIC thermoset powder coat finish that provides superior resistance to corrosion and weathering. A tightly controlled multi-stage process ensures a minimum 3 mils thickness for a finish that can withstand extreme climate changes without cracking or peeling.

OPTICS

Precision-molded acrylic lenses provide optimal luminaire spacing and improved uniformity. Lenses are indexed to the circuit board to ensure consistent optical alignment and delivering repeatable photometric performance. Light engines are available in standard 4000 K (70 CRI) or optional 5000 K (67 CRI) configurations. The CSX1 has zero uplight and qualifies as a Nighttime Friendly™ product, meaning it is consistent with the LEED® and Green Globes™ criteria for eliminating wasteful uplight.

ELECTRICAL

Light engines consist of 60 high-efficacy LEDs mounted to metal-core circuit boards to maximize heat dissipation and promote long life (100,000 hrs at 40°C, L70). Class 1 electronic driver designed to have a power factor >90%, THD <20%, with an expected life of 100,000 hours with <1% failure rate. Easily-serviceable surge protection device meets a minimum Category C Low operation (per ANSI/IEEE C62.41.2).

INSTALLATION

Integral arm provides easy installation to a pole and assists in alignment and leveling. Secure connection withstands up to 3.0 G vibration load rating per ANSI C136.31. The CSX1 utilizes the AERIS™ series pole drilling pattern for SPA and RPA options; wall mounting bracket also available. Available mast arm adapter accessory accepts horizontal tenons up to 2-3/8" O.D.

LISTINGS

CSA Certified to U.S. and Canadian standards. Light engines and luminaire are IP66 rated.
U.S. Patent No. D632830. U.S. Patent No. D653,382 S.

DesignLights Consortium® (DLC) qualified product. Not all versions of this product may be DLC qualified. Please check the DLC Qualified Products List at www.designlights.org to confirm which versions are qualified.

WARRANTY

Five year limited warranty. Full warranty terms located at www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx

Note: Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25 °C. Specifications subject to change without notice.

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Village of Lincolnshire
Zoning Board Submittal Packet
Lincolnshire – Prairie View School District 103
Additions to Half Day School

Traffic Study

January 8, 2016

GEWALT HAMILTON ASSOCIATES, INC.
CONSULTING ENGINEERS
625 Forest Edge Drive, Vernon Hills, IL 60061
TEL 847.478.9700 ▪ FAX 847.478.9701
www.gha-engineers.com

Traffic Planning Study

To: Dan Stanley – Lincolnshire-Prairie View School District 103

Copy: Leanne Meyer-Smith – Wight & Company
Don Matthews - GHA

From: Daniel P. Brinkman, PE, PTOE

Date: January 8, 2016

Subject: Proposed School Addition & Site Improvements
Half Day School
239 Olde Half Day Road
Lincolnshire, Illinois

Part I. Project Context

Per your request, GEWALT HAMILTON ASSOCIATES, INC. (GHA) has conducted a Traffic Planning Study for the above captioned project. The following report summarizes our findings and recommendations for your consideration. The Exhibits and Appendices referenced throughout this report are conveniently located in the Technical Addendum at the end of this document.

School District 103 proposes to make two additions to the existing Half Day School located at 239 Olde Half Day Road in Lincolnshire. Per the Architectural Site Plan prepared by Wight & Company (see Appendix A) a small 2nd floor classroom addition over existing 1st floor space is proposed as well as a larger two-story addition to the west side of the building. In total, Half Day school will be expanded by just over 26,000 square feet for the purpose of accommodating 5th Grade students on campus. The major building expansion is proposed to occur in the primary staff parking lot and as such, modifications to the parking lot and circulation patterns on campus will be made.

Part II. Summary Statement

Briefly summarizing, we believe that the expansion of Half Day School represents a minimal impact on the traffic volumes and patterns in the area. Key reasons include:

- Site modifications are proposed to address the afternoon dismissal queue and improve operations.
- Additional buses will be provided and accommodations made on-site to improve stacking and circulation.
- On-site parking will continue to be in excess of the Village requirement.
- Our analyses does not discount future traffic volumes for potential siblings in the new 5th grade whose parents currently participate in drop-off and pick-up at Half Day School.

Part III. Background Conditions

Site Context and Photo Inventory

Exhibits 1 and 2 provide a location map/aerial photograph and a street-level photo inventory of the site vicinity respectively. Key conditions in the area are as follows:

- Olde Half Day Road is a local (Village of Lincolnshire jurisdiction) route that extends for approximately ¼ mile between IL Rte 22 (Half Day Road) and US 45 / IL Rte 21 (Milwaukee Avenue) in the Village of Lincolnshire. Olde Half Day provides a single travel lane in each direction but widens to provide separate left turn lanes at its signalized intersections with IL Rte 22 and US Rte 45/IL Rte 21. On-street parking is prohibited for the length of Olde Half Day Road. The posted speed limit is 35-mph but a 20-mph School Zone exists as well.

- Indian Creek Road is another local route that meets Olde Half Day at a "T" intersection roughly mid-way along the school site frontage. Indian Creek Road provides a single travel lane in each direction and has a posted speed limit of 25-mph. Left turns from Olde Half Day to Indian Creek are prohibited Monday - Friday between the hours of3pm and 6pm.

- The Vernon Area Public Library is located across Olde Half Day Road from Half Day School on the west side of Indian Creek Road and the Chicago Lighthouse Church is located on the east side of Indian Creek Road.

- Half Day School is accessed via a single full access driveway near the east property line that provides access to 40 parking spaces and a paved play area that doubles as the bus loading and unloading area. Additionally a pair of one-way drives serve a drive that parallels Olde Half Day Road further southwest along the frontage. The western most drive aligns opposite an entrance for the Vernon Area Library. The one-way pair of drives also serve as the only access for the western parking lot which contains another 39 spaces including 3 handicapped accessible spaces.

- Parent pick-up /drop-off operations occur in the drive that parallels Olde Half Day Road and in the parking lot west of the building.

- Busses utilized the paved play area south of the eastern parking lot. Circling through the lot after the morning drop off and staging – all backed along the south fence line in the afternoon prior to student dismissal.

Existing Traffic Counts

Peak period traffic turning movement counts were conducted by GHA on Thursday November 12, 2015 from 6:00 – 9:00 AM and 2:00–6:00 PM at the school access drives along Olde Half Day.

Peak Hours at the school driveways occurred from 8:00-9:00 AM and from 3:00-4:00 PM – generally corresponding with the start and end times of the school day. The observed vehicle counts at the school driveways are illustrated in *Exhibit 3*.

No unusual activities (e.g. roadway construction, emergency vehicle activity or inclement weather) were observed during our counts that would be expected to impact traffic volumes or travel patterns in the vicinity.

Some key observations include:

- All students arriving in the morning enter the building from the various drop off locations
- Drop off maneuvers are efficient and accommodated within the limits of the front drive – rarely extending beyond the parking lot entrance.
- Bus arrival and departure during the morning hours is kept separate from parents and works efficiently.
- Busses arriving from the west need the entire east driveway to accommodate their almost 180-degree right turn into the site. A realignment of the drive should be considered as a future improvement.

- A school staff member encourages parents to extend the afternoon pick-up queue into the parking lot.

    - Currently vehicles stack clockwise around the lot resulting in a "crossover" as the queue extends to the driveway. This should be changed as soon as practical to a counter-clockwise pattern to eliminate the crossovers. Approximately 32 vehicles can be accommodated on site in the current stacking configuration.

- Parent vehicles were observed queueing to nearly Olde Half Day Road in the afternoon.
- Bus flow in and out of the site – despite the unconventional three-point-turn maneuvers is efficient and works well.

Exhibit 4 illustrates the current traffic operations.

Summaries of the existing traffic counts can be found in *Appendix B.*

Existing Parking Observations:

GHA collected "spot counts" of parking occupancy during our observation periods. The observed parking utilization is as follows:

Date / Time	East Lot 1	West Lot	Total	Percent Occupied
Nov 12 / 2:30 pm	27	19	46	58%
Nov 12 / 3:45 pm	18	16	37	43%
Nov 13 / 8:25 am	22	18	40	51%
Nov 13 / 9:10 am	27	19	46	58%
		Averages:	43	54%

As can be seen, from our observations during school hours, the parking lot was rarely more than ½ full with an average occupancy of 43 vehicles or 54% utilization. Currently there are 79 parking spaces on site including 3 accessible spaces.

Part IV. Proposed Development

Site Plan

Included as *Appendix A* is the Architectural Site Plan for Half Day School dated November 6, 2015 and prepared by Wight and Company. As can be seen, the proposed expansion includes a ±1,600 square foot 2nd

story classroom addition as well as a ±12,240 square foot two story classroom wing on the west side of the building.

Included as Appendix C is the January 8, 2016 preliminary site plan prepared by GHA. Key components of the site plan include:

- A new connection between the east parking area and the paved play area to better accommodate the movements of additional busses.
- Modified and slightly expanded west parking lot.
- Improved / widened pedestrian connection to new parking lot
- Modified and expanded detention areas/

Project Traffic Characteristics

Exhibit 5 – Part A tabulates the traffic generation calculations for the existing school. Part A.1 tabulates the observations made by GHA in November 2015. Part A.2 tabulates for comparison, the anticipated traffic volumes one would expect for a school of 375 students based on historical rates published by the Institute of Transportation Engineers (ITE) in the 9th Edition of the Manual *Trip Generation*.

As can be seen, the driveway volumes at Half Day School are slightly lower in the morning peak hour and appreciably higher during the afternoon peak hour than the published data would suggest. To be conservative, we have assigned traffic associated with the expansion and the addition of approximately 180 5th grade students based on the higher rates per student. This conservative approach estimates that Half Day School will experience an additional 80 trips (combined inbound and outbound) during each of the peak hours. We feel that this approach helps ensure that the maximum impacts of the proposed additional students is considered. Furthermore, it is likely that some of the new 5th grade students have siblings at Half Day School so drop-off and pick-up volumes may not increase at the same ratio as observed.

Exhibit 5 – Part B illustrates the observed trip distribution for school traffic from the November 2015 counts. While the arrival pattern of traffic is balance and nearly split evenly east and west of the school, a significant majority of traffic leaving campus turns right and heads to the east and the signalized intersection of Olde Half Day Road and IL Rte 21 (Milwaukee Avenue). Traffic assignments for the additional vehicles associated with adding 5th grade students to the campus were assumed to follow the current traffic patterns during the peak hours.

Part V. Traffic Evaluation

Traffic Assignments

Exhibit 6 illustrates the site traffic assignments for the new parking lot traffic, which is based on the traffic characteristics summarized in Exhibit 5 (i.e. traffic generation, trip distribution and driveway usage) and assigned to the site access and adjacent roadway network.

Site traffic was then combined with the Existing volumes in Exhibit 3 to produce the Total Traffic, which is illustrated in Exhibit 7.

Parking Discussion and Site Plan comments

Parking for elementary / Jr High Schools in accordance with the Village of Lincolnshire Zoning Ordinance 6-1-2 is as follows:

1 space per employee

Half Day School upon completion of the proposed building additions and inclusion of 5th Grade students, District 103 estimates that Half Day School will have 70 employees.

Based on the Zoning Ordinance, Half Day School will require 70 spaces. As previously noted the proposed site plan provides 79 spaces, including 4 accessible spaces. Parking exceeds the code requirement as proposed.

Exhibit 8 illustrates the proposed site improvements in addition to the building expansion, and recommendations for future traffic operations including:

- Expanded building footprint
- Additional and expanded sidewalks within the pick-up/drop-off zone and at the southwest corner of the expansion
- New bus drive connection in east parking lot to accommodate additional 3-5 busses
- New bus alignment / stacking location for dismissal
- West parking lot modifications with increased queueing space and improved – counterclockwise operation
- Additional detention area southwest of the parking lot and school expansion

Exhibit 9 provides additional detail of the proposed operations of the east parking lot including:

- AutoTurn simulation illustrating that there is ample clearance within the lot to allow two vehicles to stack side-by-side for maximum queueing during the afternoon pick-up operations.

- Illustration of the recommended queueing / stacking configuration showing both the dual queue and the counter-clockwise pattern in the new east parking lot. As noted the proposed stacking pattern increases the number of vehicles that can be accommodated on site to approximately 47.

Part VI. Conclusions and Recommendations

Our analyses conclude that the additional traffic generated by the school expansion represents a minimal impact on the area roadways. Expanding the stacking space on site and extending the drop-off / pick-up zone will help accommodate additional students. Parking is in excess of the requirement and our understanding is that an arrangement exists with Vernon Area Library for special event parking and the District is going to continue to work with the Village to provide a formal pedestrian crossing of Old Half Day Road.

Part VII. Technical Addendum

The following Exhibits and Appendices were previously referenced. They provide technical support for our observations, findings, and recommendations discussed in the text.

<u>Exhibits</u>

1. Site Context
2. Photographic Inventory
3. Existing Traffic
4. Current Traffic Operations
5. Project Traffic Characteristics
6. Site Traffic
7. Total Traffic
8. Recommended traffic operations
9. East Parking Lot

<u>Appendices</u>

A. Architectural Site Plan – Wight and Company
B. Traffic Count Summaries
C. Preliminary Site Engineering Plan

4521.900 Half Day School TPS 010816.doc

TECHNICAL ADDENDUM

GHA GEWALT HAMILTON ASSOCIATES, INC.

Proposed School Addition and Site Improvements: Half Day School – 239 Olde Half Day Road; Lincolnshire, IL

GEWALT HAMILTON ASSOCIATES, INC.

Exhibit 1
Site Context

Looking south into Half Day School east parking lot from Olde Half Day Road

Looking east along Olde Half Day Road from School driveway

Looking west at drop-off exit drive

Looking east along school frontage from Indian Creek Rd

GEWALT HAMILTON ASSOCIATES, INC.

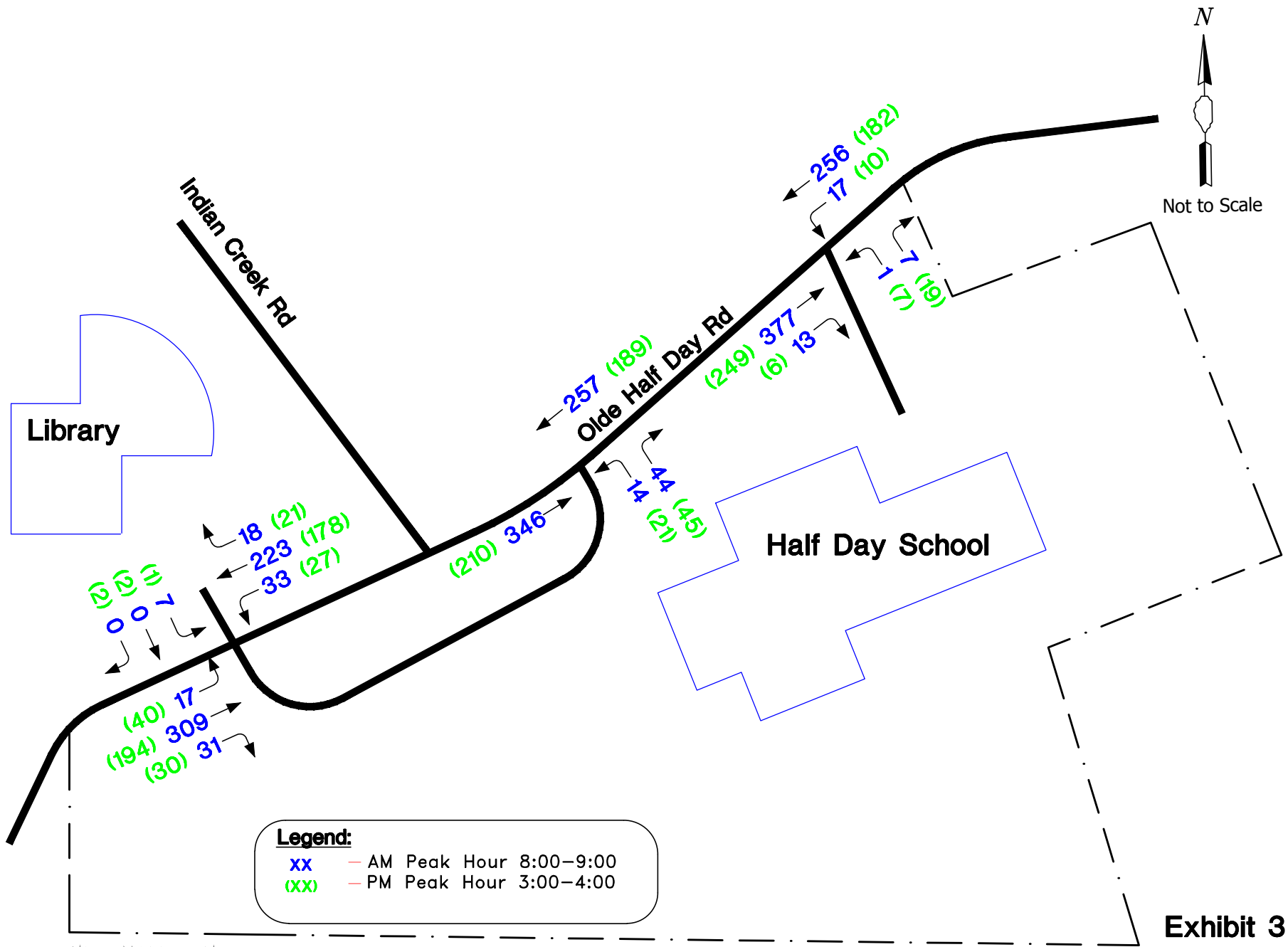
Exhibit 2
Photo Inventory

Looking south from Vernon Library driveway across Olde Half Day Road to drop off entrance

Looking east along drop off drive from Olde Half Day Road entrance

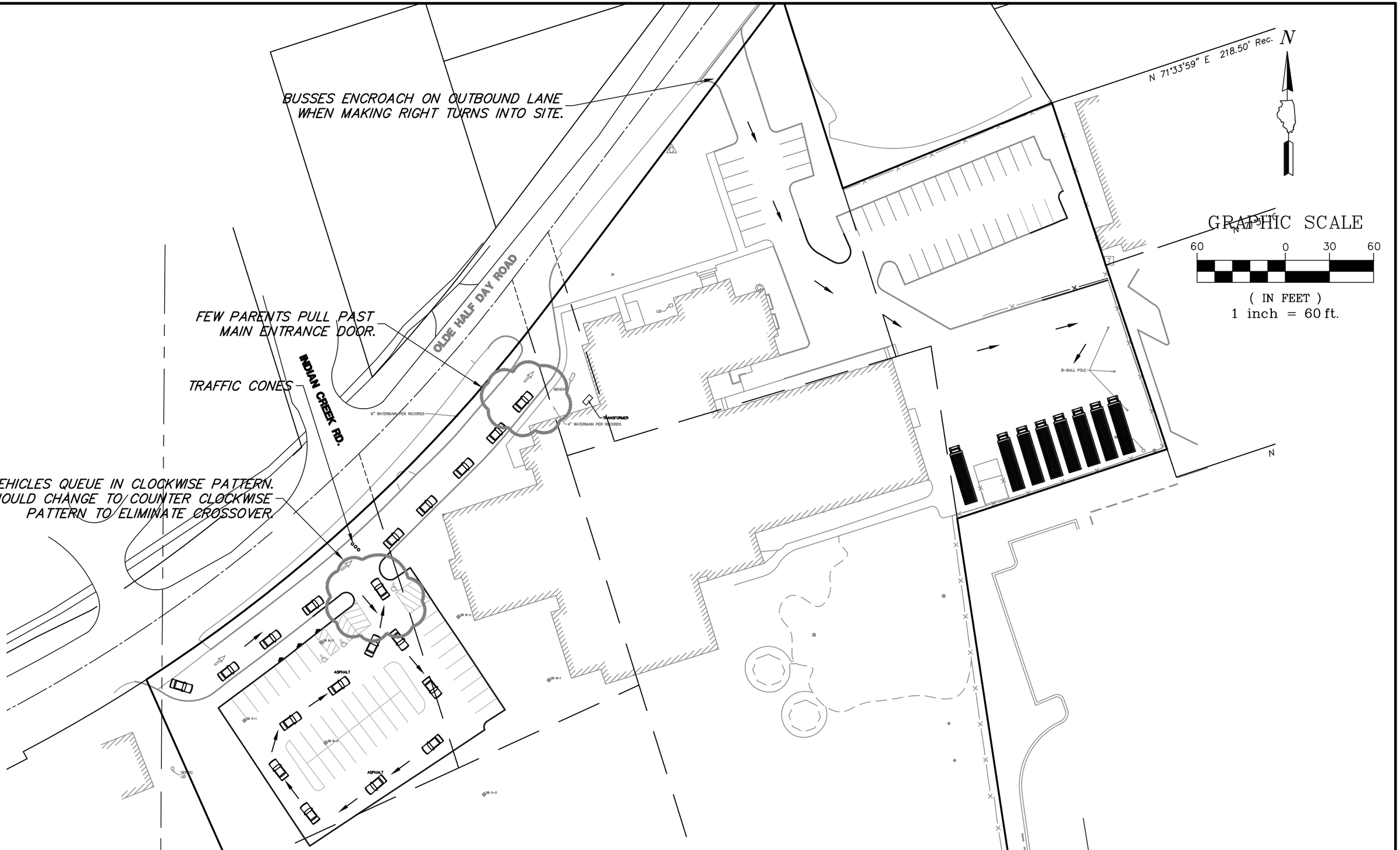
Afternoon pick-up traffic queued through parking lot

Busses staged in east play area prior to afternoon dismissal



GEWALT HAMILTON ASSOCIATES, INC.

Exhibit 3
Existing Traffic
Source: GHA Nov 2015



GHA GEWALT HAMILTON ASSOCIATES, INC.
625 Forest Edge Drive ▪ Vernon Hills, IL. 60061
Tel.: 847.478.9700 ▪ Fax.: 847.478.9701

EXHIBIT 4-CURRENT OPERATIONS

HALF DAY INTERMEDIATE SCHOOL IMPROVEMENTS
PRAIRIEVIEW SCHOOL DISTRICT 103
LINCOLNSHIRE, ILLINOIS

FILE: 4521.100 Half Day – PR1.dwg			
DRAWN BY:	MGFC	GHA PROJECT #	4521.100
DATE:	11/16/15		
CHECKED BY:	LXM	SCALE:	1"=60'

Exhibit 5

Project Traffic Characteristics

Half Day School Expansion: 239 Olde Half Day Road - Lincolnshire, Illinois

Part A. Traffic Generation Calculations

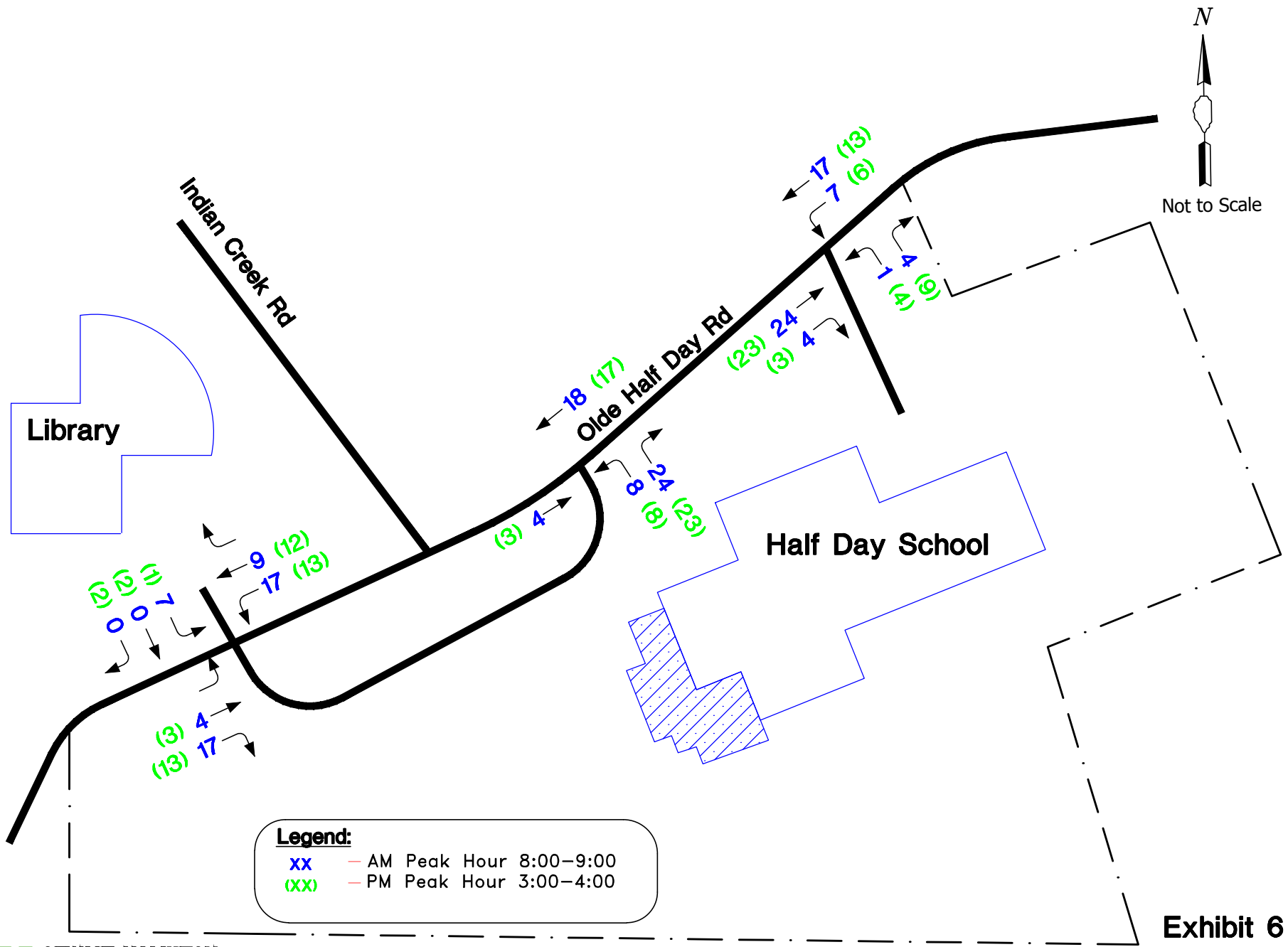
	ITE Code	Morning Peak Hour In	Morning Peak Hour Out	Morning Peak Hour Sum	Evening Peak Hour In	Evening Peak Hour Out	Evening Peak Hour Sum
1. November 2015 Observations							
375 Students	# 520	**94**	**66**	**160**	**73**	**92**	**165**
	trips/student			0.43			0.44
2. Anticipated per ITE	# 520	**93**	**76**	**169**	**48**	**57**	**105**
	trips/student			0.45			0.28
3. Additional 5th Grade Traffic 180 Students		**45**	**37**	**82**	**35**	**44**	**79**

To be conservative use higher ITE rate for AM and higher observed rate for PM traffic

Part B. Trip Distribution

Route & Direction	Percent Use by Route: Approach Site From	Percent Use by Route: Depart Site To
Olde Half Day		
- East of School	53%	75%
- West of School	47%	25%
Totals =	100%	100%

GEWALT HAMILTON ASSOCIATES, INC.



GEWALT HAMILTON ASSOCIATES, INC.

Exhibit 6
New School Traffic

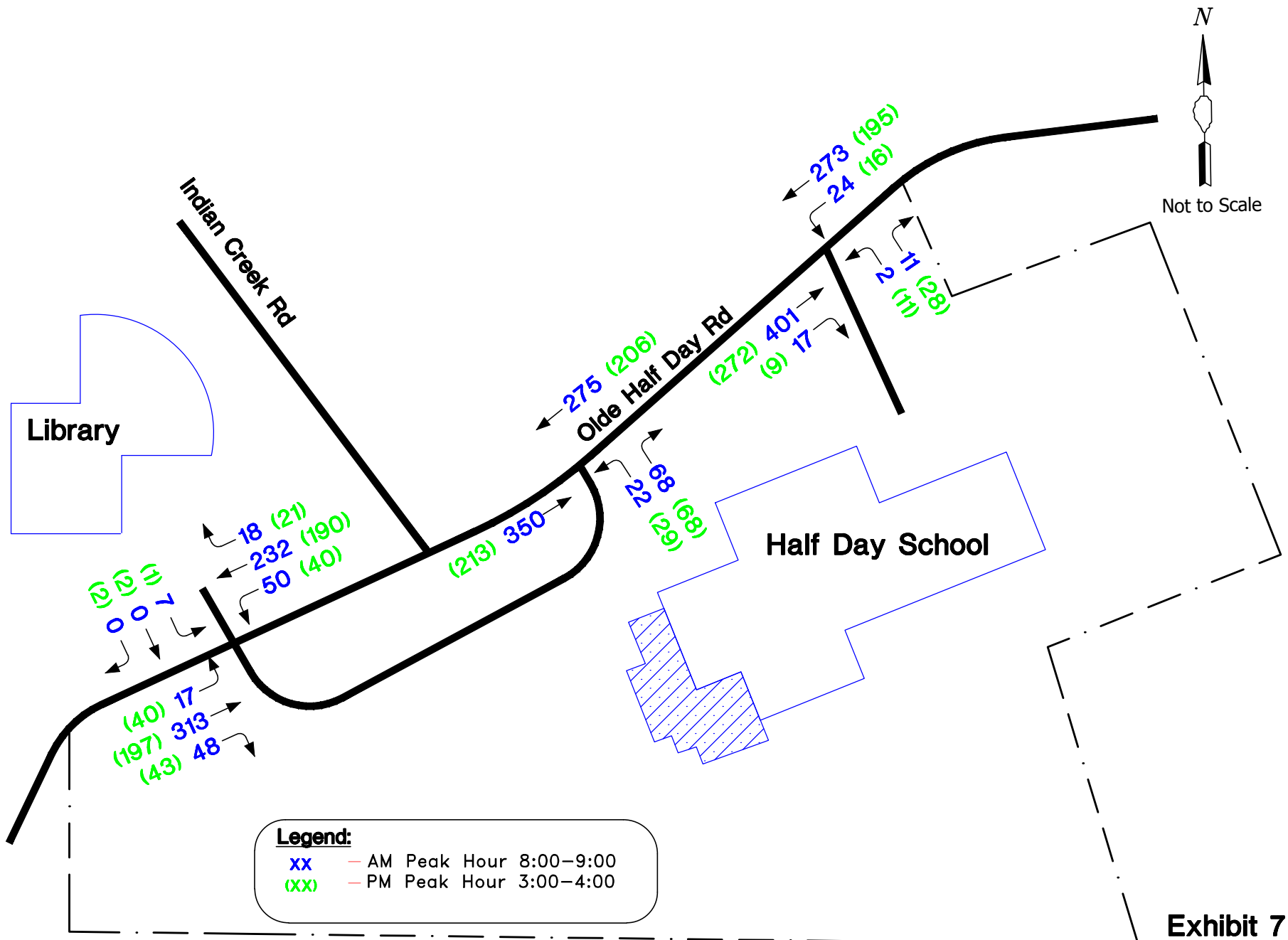


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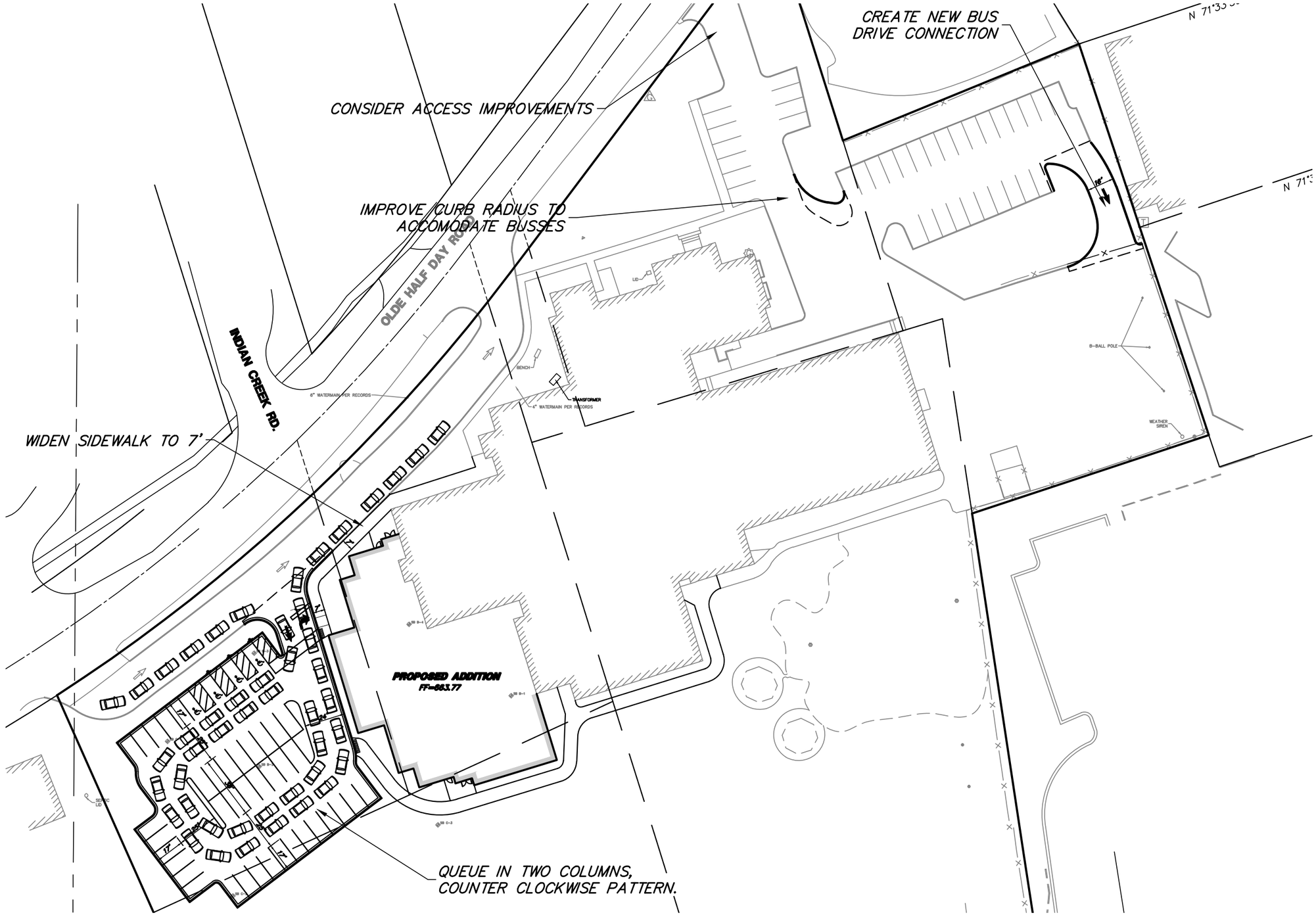
Exhibit 7
Total Traffic
Existing + New School



GRAPHIC SCALE

60 0 30 60

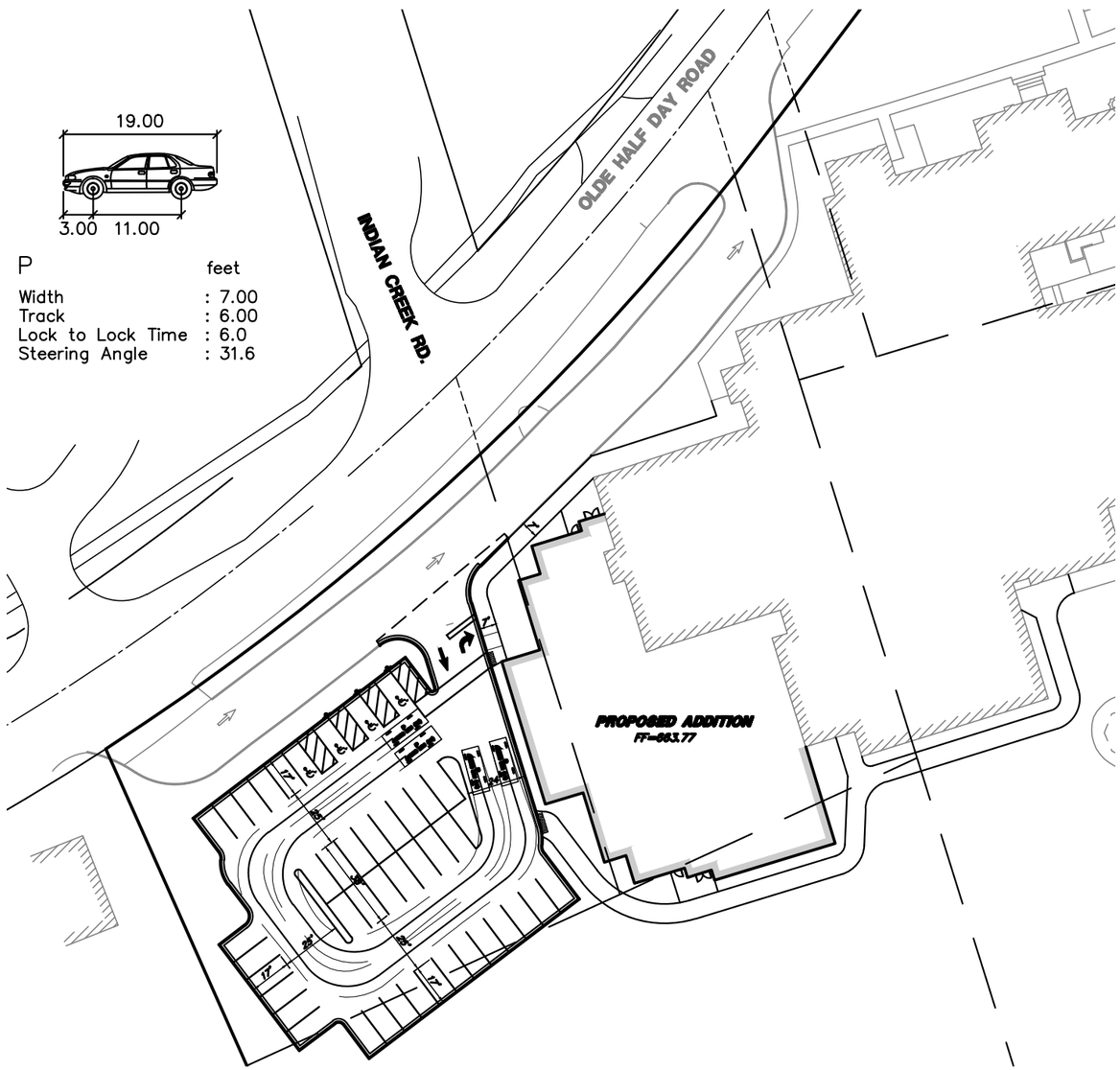
(IN FEET)
1 inch = 60 ft.

GEWALT HAMILTON ASSOCIATES, INC.
625 Forest Edge Drive ▪ Vernon Hills, IL. 60061
Tel.: 847.478.9700 ▪ Fax.: 847.478.9701

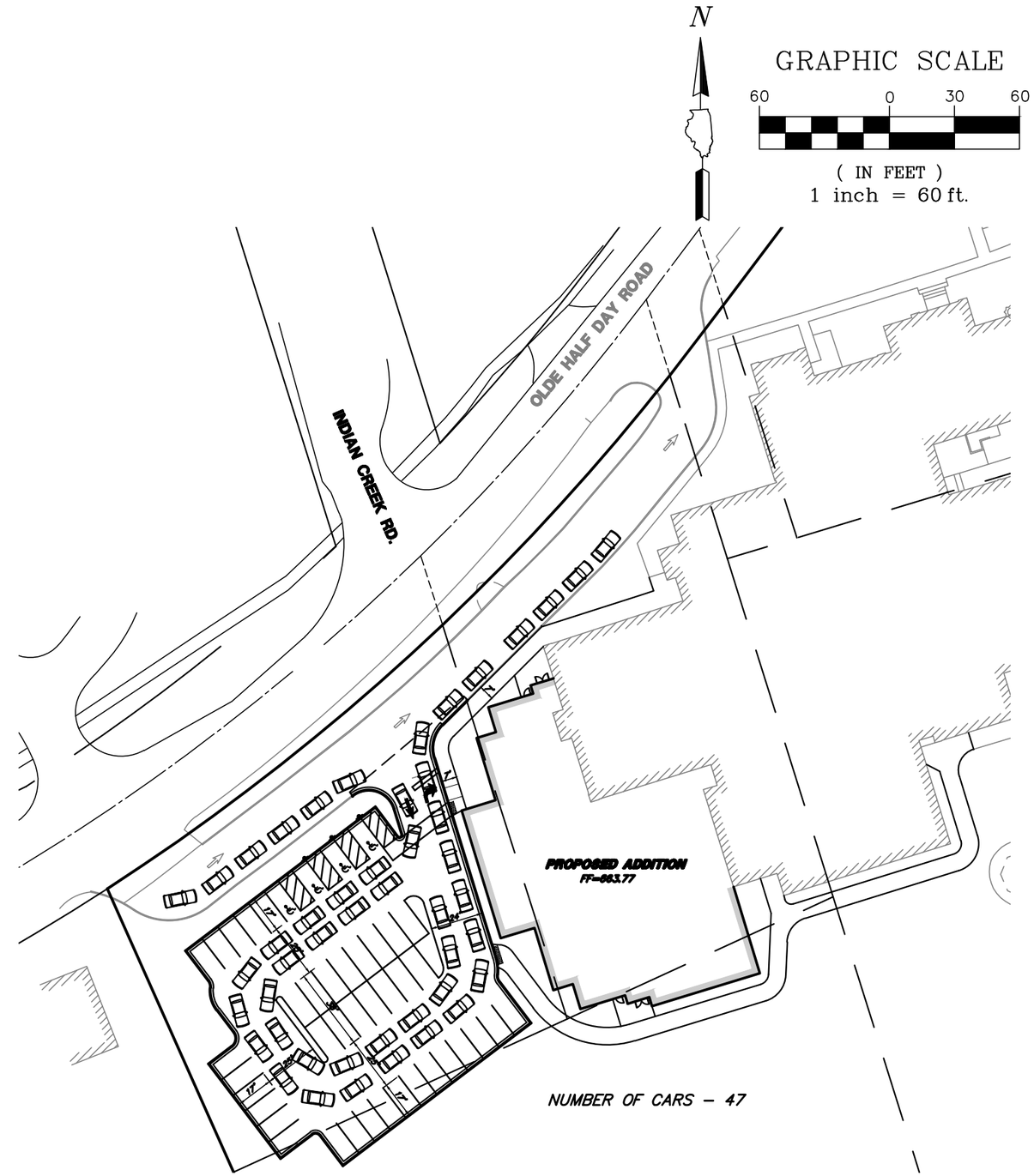
EXHIBIT 8-FUTURE OPERATIONS

HALF DAY INTERMEDIATE SCHOOL IMPROVEMENTS
PRAIRIEVIEW SCHOOL DISTRICT 103
LINCOLNSHIRE, ILLINOIS

FILE: 4521.100 Half Day – PR1.dwg			
DRAWN BY:	MGFC	GHA PROJECT #	4521.100
DATE:	11/16/15		
CHECKED BY:	LXM	SCALE:	1"=60'



AUTOTURN EXHIBIT



CAR STACKING EXHIBIT

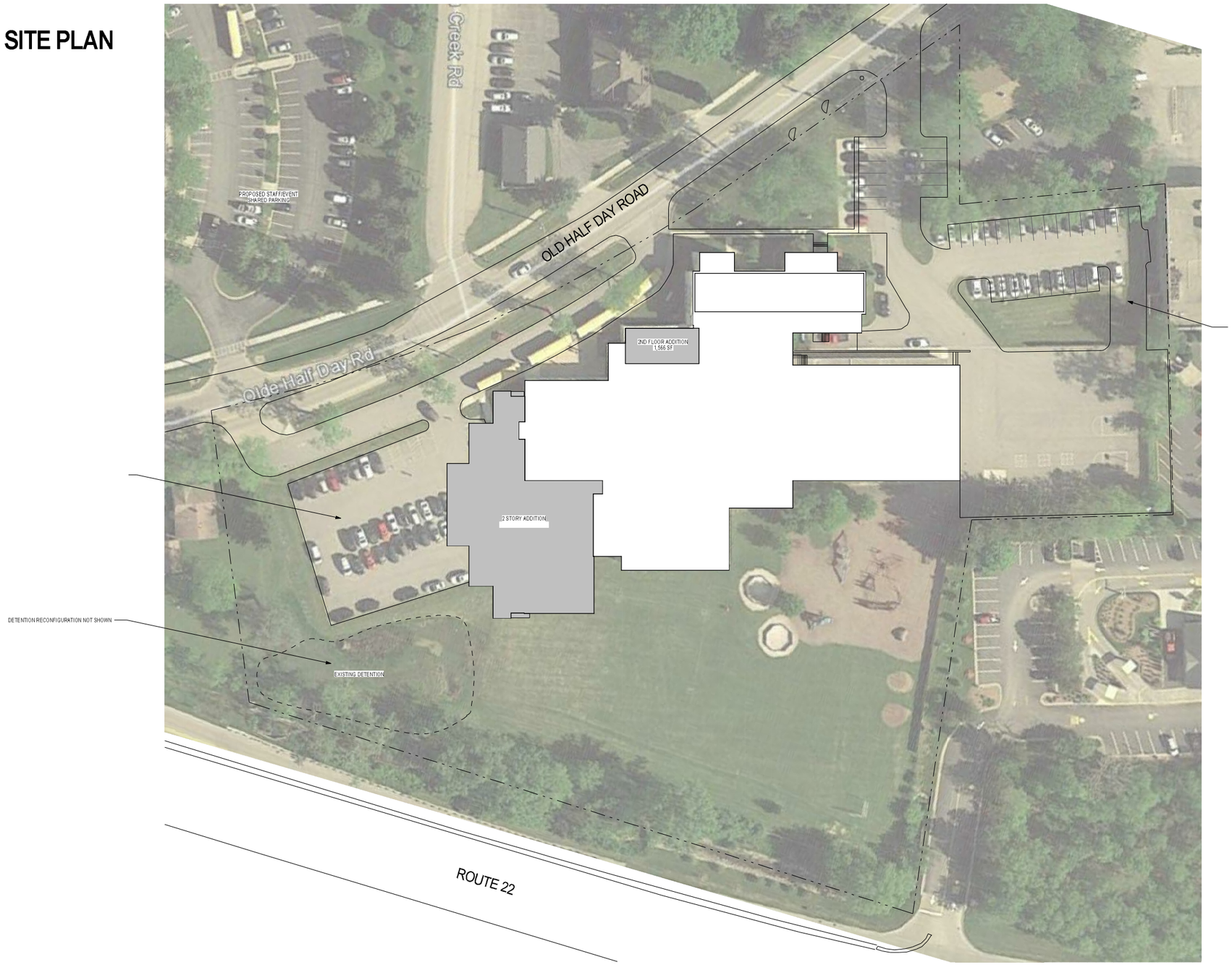
GHA GEWALT HAMILTON ASSOCIATES, INC.
625 Forest Edge Drive ▪ Vernon Hills, IL. 60061
Tel.: 847.478.9700 ▪ Fax.: 847.478.9701

EXHIBIT 9 - EAST PARKING LOT EXHIBIT

HALF DAY INTERMEDIATE SCHOOL IMPROVEMENTS
PRAIRIEVIEW SCHOOL DISTRICT 103
LINCOLNSHIRE, ILLINOIS

FILE: 4521.100 Half Day – PR1.dwg			
DRAWN BY:	MGFC	GHA PROJECT #	4521.100
DATE:	1/5/16		
CHECKED BY:	DPB	SCALE:	1"=60'

h-A1.0
ARCHITECTURAL SITE PLAN



LINCOLNSHIRE - PRAIRIEVIEW SCHOOL DISTRICT 103

HALF DAY INTERMEDIATE SCHOOL

11.06.2015

NORTH

Scale: 1" = 30'-0"

02-5467-05

Wight

11/6/2015 11:57:21 AM
C:\Users\jb\Documents\02-5467-05_Half Day_ARCH_2014_Central_3_jb0.rvt
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4521.900 Lincolnshire, IL
Olde Half Day Rd. and Half Day School Driveway
4-hr
GHA MIO

Gewalt Hamilton Associates Inc.
625 Forest Edge Drive

Vernon Hills, Illinois, United States 60061
(847) 478-9700 dbrinkman@gha-engineers.com

Count Name: Olde Half Day and School Driveway
Site Code:
Start Date: 11/17/2015
Page No: 1

Turning Movement Data

Start Time	Olde Half Day Rd. Southbound					Half Day School Driveway Westbound					Olde Half Day Rd. Northbound					
	U-Turn	Left	Thru	Peds	App. Total	U-Turn	Left	Right	Peds	App. Total	U-Turn	Thru	Right	Peds	App. Total	Int. Total
7:30 AM	0	1	67	0	68	0	0	0	0	0	0	65	0	0	65	133
7:45 AM	0	2	94	0	96	0	1	0	0	1	0	70	4	0	74	171
Hourly Total	0	3	161	0	164	0	1	0	0	1	0	135	4	0	139	304
8:00 AM	0	1	63	0	64	0	0	0	0	0	0	80	3	0	83	147
8:15 AM	0	4	62	0	66	0	0	0	0	0	0	76	1	0	77	143
8:30 AM	0	5	61	0	66	0	1	0	0	1	0	104	5	0	109	176
8:45 AM	0	7	70	0	77	0	0	7	0	7	0	117	4	0	121	205
Hourly Total	0	17	256	0	273	0	1	7	0	8	0	377	13	0	390	671
*** BREAK ***	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2:30 PM	0	0	37	0	37	0	0	1	0	1	0	34	0	0	34	72
2:45 PM	0	0	46	1	46	0	0	0	0	0	0	48	0	0	48	94
Hourly Total	0	0	83	1	83	0	0	1	0	1	0	82	0	0	82	166
3:00 PM	0	0	44	0	44	0	0	1	0	1	0	45	1	0	46	91
3:15 PM	0	10	51	0	61	0	0	1	0	1	0	45	4	0	49	111
3:30 PM	0	0	47	0	47	0	6	13	0	19	0	109	1	0	110	176
3:45 PM	0	0	40	0	40	0	1	4	0	5	0	50	0	0	50	95
Hourly Total	0	10	182	0	192	0	7	19	0	26	0	249	6	0	255	473
4:00 PM	0	0	46	0	46	0	1	3	0	4	0	89	0	0	89	139
4:15 PM	0	0	41	0	41	0	2	2	0	4	0	60	0	0	60	105
4:30 PM	0	0	45	0	45	0	0	1	0	1	0	77	0	0	77	123
4:45 PM	0	0	61	0	61	0	0	0	0	0	0	81	0	0	81	142
Hourly Total	0	0	193	0	193	0	3	6	0	9	0	307	0	0	307	509
Grand Total	0	30	875	1	905	0	12	33	0	45	0	1150	23	0	1173	2123
Approach %	0.0	3.3	96.7	-	-	0.0	26.7	73.3	-	-	0.0	98.0	2.0	-	-	-
Total %	0.0	1.4	41.2	-	42.6	0.0	0.6	1.6	-	2.1	0.0	54.2	1.1	-	55.3	-
Lights	0	20	853	-	873	0	7	22	-	29	0	1134	16	-	1150	2052
% Lights	-	66.7	97.5	-	96.5	-	58.3	66.7	-	64.4	-	98.6	69.6	-	98.0	96.7
Mediums	0	10	17	-	27	0	5	11	-	16	0	14	7	-	21	64
% Mediums	-	33.3	1.9	-	3.0	-	41.7	33.3	-	35.6	-	1.2	30.4	-	1.8	3.0
Articulated Trucks	0	0	5	-	5	0	0	0	-	0	0	2	0	-	2	7
% Articulated Trucks	-	0.0	0.6	-	0.6	-	0.0	0.0	-	0.0	-	0.2	0.0	-	0.2	0.3
Pedestrians	-	-	-	1	-	-	-	-	0	-	-	-	-	0	-	-
% Pedestrians	-	-	-	100.0	-	-	-	-	-	-	-	-	-	-	-	-

4521.900 Lincolnshire, IL
Olde Half Day Rd. and Half Day School Driveway
4-hr
GHA MIO

Gewalt Hamilton Associates Inc.
625 Forest Edge Drive

Vernon Hills, Illinois, United States 60061
(847) 478-9700 dbrinkman@gha-engineers.com

Count Name: Olde Half Day and School Driveway
Site Code:
Start Date: 11/17/2015
Page No: 3

Turning Movement Peak Hour Data (8:00 AM)

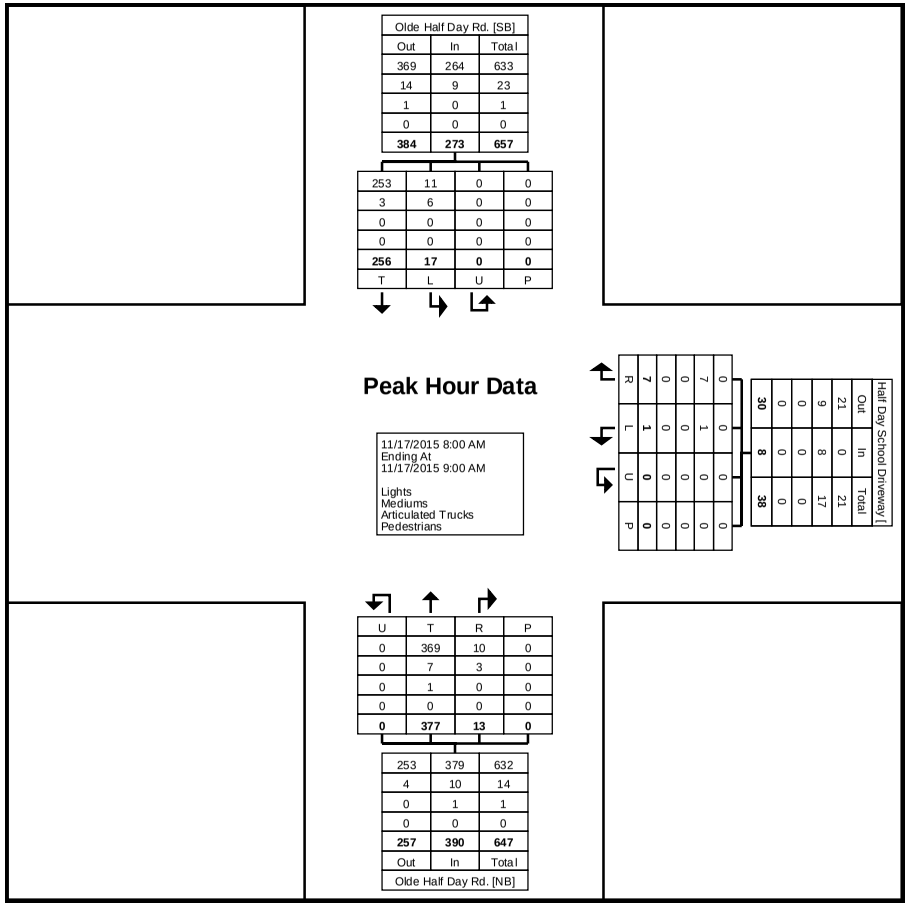
Start Time	Olde Half Day Rd. Southbound					Half Day School Driveway Westbound					Olde Half Day Rd. Northbound					
	U-Turn	Left	Thru	Peds	App. Total	U-Turn	Left	Right	Peds	App. Total	U-Turn	Thru	Right	Peds	App. Total	Int. Total
8:00 AM	0	1	63	0	64	0	0	0	0	0	0	80	3	0	83	147
8:15 AM	0	4	62	0	66	0	0	0	0	0	0	76	1	0	77	143
8:30 AM	0	5	61	0	66	0	1	0	0	1	0	104	5	0	109	176
8:45 AM	0	7	70	0	77	0	0	7	0	7	0	117	4	0	121	205
Total	0	17	256	0	273	0	1	7	0	8	0	377	13	0	390	671
Approach %	0.0	6.2	93.8	-	-	0.0	12.5	87.5	-	-	0.0	96.7	3.3	-	-	-
Total %	0.0	2.5	38.2	-	40.7	0.0	0.1	1.0	-	1.2	0.0	56.2	1.9	-	58.1	-
PHF	0.000	0.607	0.914	-	0.886	0.000	0.250	0.250	-	0.286	0.000	0.806	0.650	-	0.806	0.818
Lights	0	11	253	-	264	0	0	0	-	0	0	369	10	-	379	643
% Lights	-	64.7	98.8	-	96.7	-	0.0	0.0	-	0.0	-	97.9	76.9	-	97.2	95.8
Mediums	0	6	3	-	9	0	1	7	-	8	0	7	3	-	10	27
% Mediums	-	35.3	1.2	-	3.3	-	100.0	100.0	-	100.0	-	1.9	23.1	-	2.6	4.0
Articulated Trucks	0	0	0	-	0	0	0	0	-	0	0	1	0	-	1	1
% Articulated Trucks	-	0.0	0.0	-	0.0	-	0.0	0.0	-	0.0	-	0.3	0.0	-	0.3	0.1
Pedestrians	-	-	-	0	-	-	-	-	0	-	-	-	-	0	-	-
% Pedestrians	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

4521.900 Lincolnshire, IL
Olde Half Day Rd. and Half Day School Driveway
4-hr
GHA MIO

Gewalt Hamilton Associates Inc.
625 Forest Edge Drive

Vernon Hills, Illinois, United States 60061
(847) 478-9700 dbrinkman@gha-engineers.com

Count Name: Olde Half Day and School Driveway
Site Code:
Start Date: 11/17/2015
Page No: 4



Turning Movement Peak Hour Data Plot (8:00 AM)

4521.900 Lincolnshire, IL
Olde Half Day Rd. and Half Day School Driveway
4-hr
GHA MIO

Gewalt Hamilton Associates Inc.
625 Forest Edge Drive

Vernon Hills, Illinois, United States 60061
(847) 478-9700 dbrinkman@gha-engineers.com

Count Name: Olde Half Day and School Driveway
Site Code:
Start Date: 11/17/2015
Page No: 5

Turning Movement Peak Hour Data (3:00 PM)

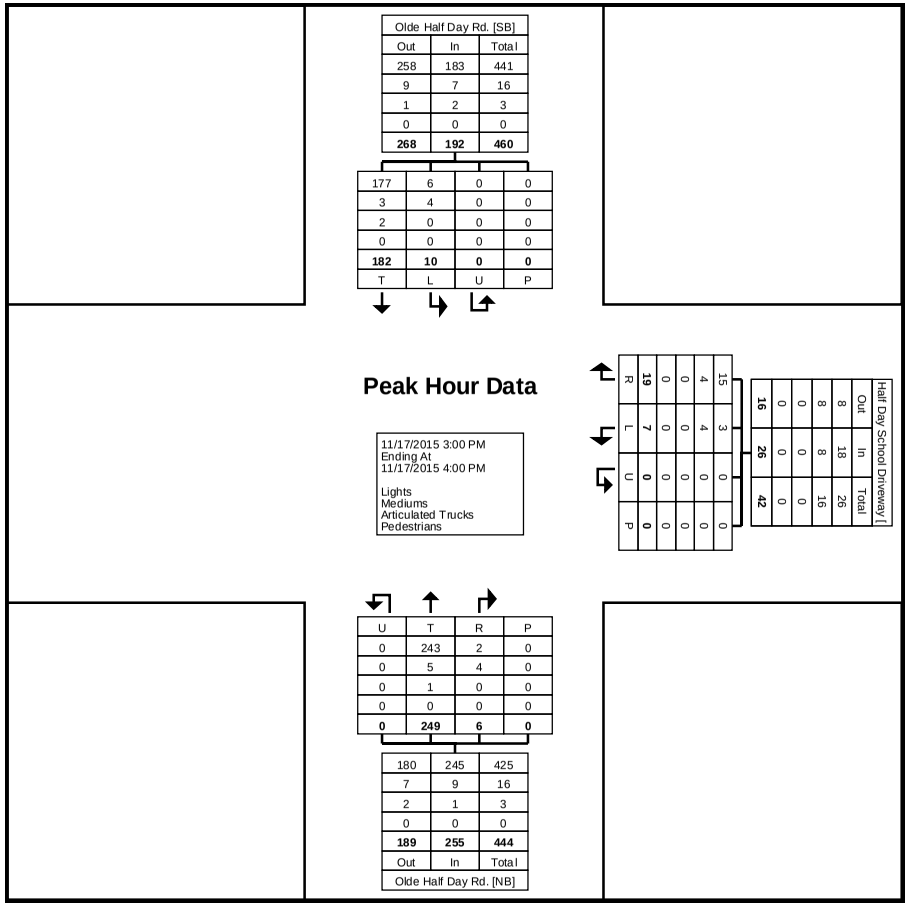
Start Time	Olde Half Day Rd. Southbound					Half Day School Driveway Westbound					Olde Half Day Rd. Northbound					
	U-Turn	Left	Thru	Peds	App. Total	U-Turn	Left	Right	Peds	App. Total	U-Turn	Thru	Right	Peds	App. Total	Int. Total
3:00 PM	0	0	44	0	44	0	0	1	0	1	0	45	1	0	46	91
3:15 PM	0	10	51	0	61	0	0	1	0	1	0	45	4	0	49	111
3:30 PM	0	0	47	0	47	0	6	13	0	19	0	109	1	0	110	176
3:45 PM	0	0	40	0	40	0	1	4	0	5	0	50	0	0	50	95
Total	0	10	182	0	192	0	7	19	0	26	0	249	6	0	255	473
Approach %	0.0	5.2	94.8	-	-	0.0	26.9	73.1	-	-	0.0	97.6	2.4	-	-	-
Total %	0.0	2.1	38.5	-	40.6	0.0	1.5	4.0	-	5.5	0.0	52.6	1.3	-	53.9	-
PHF	0.000	0.250	0.892	-	0.787	0.000	0.292	0.365	-	0.342	0.000	0.571	0.375	-	0.580	0.672
Lights	0	6	177	-	183	0	3	15	-	18	0	243	2	-	245	446
% Lights	-	60.0	97.3	-	95.3	-	42.9	78.9	-	69.2	-	97.6	33.3	-	96.1	94.3
Mediums	0	4	3	-	7	0	4	4	-	8	0	5	4	-	9	24
% Mediums	-	40.0	1.6	-	3.6	-	57.1	21.1	-	30.8	-	2.0	66.7	-	3.5	5.1
Articulated Trucks	0	0	2	-	2	0	0	0	-	0	0	1	0	-	1	3
% Articulated Trucks	-	0.0	1.1	-	1.0	-	0.0	0.0	-	0.0	-	0.4	0.0	-	0.4	0.6
Pedestrians	-	-	-	0	-	-	-	-	0	-	-	-	-	0	-	-
% Pedestrians	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

4521.900 Lincolnshire, IL
Olde Half Day Rd. and Half Day School Driveway
4-hr
GHA MIO

Gewalt Hamilton Associates Inc.
625 Forest Edge Drive

Vernon Hills, Illinois, United States 60061
(847) 478-9700 dbrinkman@gha-engineers.com

Count Name: Olde Half Day and School Driveway
Site Code:
Start Date: 11/17/2015
Page No: 6



Turning Movement Peak Hour Data Plot (3:00 PM)

4521.900 Lincolnshire, IL
Old Half Day Rd. and Half Day School Entrance
4-hr
GHA MIO

Gewalt Hamilton Associates Inc.
625 Forest Edge Drive

Vernon Hills, Illinois, United States 60061
(847) 478-9700 dbrinkman@gha-engineers.com

Count Name: Olde Half Day and School Exit
Site Code:
Start Date: 11/17/2015
Page No: 1

Turning Movement Data

Start Time	Olde Half Day Rd. Southbound						Half Day School Exit Westbound						Olde Half Day Rd. Northbound						Church Driveway Eastbound						
	U-Turn	Left	Thru	Right	Peds	App. Total	U-Turn	Left	Thru	Right	Peds	App. Total	U-Turn	Left	Thru	Right	Peds	App. Total	U-Turn	Left	Thru	Right	Peds	App. Total	Int. Total
7:30 AM	0	0	67	0	0	67	0	0	0	0	0	0	0	0	66	0	0	66	0	0	0	0	0	0	133
7:45 AM	0	0	95	0	0	95	0	1	0	0	0	1	0	0	78	0	0	78	0	0	0	0	0	0	174
Hourly Total	0	0	162	0	0	162	0	1	0	0	0	1	0	0	144	0	0	144	0	0	0	0	0	0	307
8:00 AM	0	0	63	0	0	63	0	1	0	0	0	1	0	0	83	0	0	83	0	0	0	0	0	0	147
8:15 AM	0	0	61	0	0	61	0	0	0	1	0	1	0	0	80	0	0	80	0	0	0	0	0	0	142
8:30 AM	0	0	63	0	0	63	0	2	0	14	0	16	0	0	97	0	0	97	0	0	0	0	0	0	176
8:45 AM	0	0	70	0	2	70	0	11	0	29	0	40	0	0	89	0	3	89	0	2	0	0	0	2	201
Hourly Total	0	0	257	0	2	257	0	14	0	44	0	58	0	0	349	0	3	349	0	2	0	0	0	2	666
*** BREAK ***	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2:30 PM	0	0	37	0	0	37	0	1	0	1	0	2	0	0	33	0	0	33	0	0	0	0	0	0	72
2:45 PM	0	0	46	0	0	46	0	0	0	0	0	0	0	0	47	0	0	47	0	1	0	0	0	1	94
Hourly Total	0	0	83	0	0	83	0	1	0	1	0	2	0	0	80	0	0	80	0	1	0	0	0	1	166
3:00 PM	0	0	44	0	0	44	0	0	0	2	0	2	0	0	44	0	0	44	0	0	0	0	0	0	90
3:15 PM	0	0	49	0	2	49	0	0	0	2	0	2	0	0	48	0	2	48	0	0	0	0	0	0	99
3:30 PM	0	0	52	1	3	53	0	15	0	36	0	51	0	0	71	0	2	71	0	0	0	0	0	0	175
3:45 PM	0	0	42	1	0	43	0	6	0	5	0	11	0	0	44	0	0	44	0	1	0	0	0	1	99
Hourly Total	0	0	187	2	5	189	0	21	0	45	0	66	0	0	207	0	4	207	0	1	0	0	0	1	463
4:00 PM	0	0	47	0	0	47	0	2	0	3	0	5	0	0	86	0	0	86	0	0	0	0	0	0	138
4:15 PM	0	0	43	0	0	43	0	2	0	4	0	6	0	0	57	0	0	57	0	0	0	0	0	0	106
4:30 PM	0	0	45	0	0	45	0	1	0	2	0	3	0	0	75	0	0	75	0	0	0	0	0	0	123
4:45 PM	0	0	62	0	0	62	0	0	0	2	0	2	0	0	78	0	0	78	0	0	0	0	0	0	142
Hourly Total	0	0	197	0	0	197	0	5	0	11	0	16	0	0	296	0	0	296	0	0	0	0	0	0	509
Grand Total	0	0	886	2	7	888	0	42	0	101	0	143	0	0	1076	0	7	1076	0	4	0	0	0	4	2111
Approach %	0.0	0.0	99.8	0.2	-	-	0.0	29.4	0.0	70.6	-	-	0.0	0.0	100.0	0.0	-	-	0.0	100.0	0.0	0.0	-	-	-
Total %	0.0	0.0	42.0	0.1	-	42.1	0.0	2.0	0.0	4.8	-	6.8	0.0	0.0	51.0	0.0	-	51.0	0.0	0.2	0.0	0.0	-	0.2	-
Lights	0	0	858	2	-	860	0	41	0	100	-	141	0	0	1053	0	-	1053	0	4	0	0	-	4	2058
% Lights	-	-	96.8	100.0	-	96.8	-	97.6	-	99.0	-	98.6	-	-	97.9	-	-	97.9	-	100.0	-	-	-	100.0	97.5
Mediums	0	0	23	0	-	23	0	1	0	1	-	2	0	0	22	0	-	22	0	0	0	0	-	0	47
% Mediums	-	-	2.6	0.0	-	2.6	-	2.4	-	1.0	-	1.4	-	-	2.0	-	-	2.0	-	0.0	-	-	-	0.0	2.2
Articulated Trucks	0	0	5	0	-	5	0	0	0	0	-	0	0	0	1	0	-	1	0	0	0	0	-	0	6
% Articulated Trucks	-	-	0.6	0.0	-	0.6	-	0.0	-	0.0	-	0.0	-	-	0.1	-	-	0.1	-	0.0	-	-	-	0.0	0.3
Pedestrians	-	-	-	-	7	-	-	-	-	-	0	-	-	-	-	-	7	-	-	-	-	-	0	-	-
% Pedestrians	-	-	-	-	100.0	-	-	-	-	-	-	-	-	-	-	-	100.0	-	-	-	-	-	-	-	-

4521.900 Lincolnshire, IL
Old Half Day Rd. and Half Day School Entrance
4-hr
GHA MIO

Gewalt Hamilton Associates Inc.
625 Forest Edge Drive

Vernon Hills, Illinois, United States 60061
(847) 478-9700 dbrinkman@gha-engineers.com

Count Name: Olde Half Day and School Exit
Site Code:
Start Date: 11/17/2015
Page No: 3

Turning Movement Peak Hour Data (8:00 AM)

Start Time	Olde Half Day Rd. Southbound						Half Day School Exit Westbound						Olde Half Day Rd. Northbound						Church Driveway Eastbound						
	U-Turn	Left	Thru	Right	Peds	App. Total	U-Turn	Left	Thru	Right	Peds	App. Total	U-Turn	Left	Thru	Right	Peds	App. Total	U-Turn	Left	Thru	Right	Peds	App. Total	Int. Total
8:00 AM	0	0	63	0	0	63	0	1	0	0	0	1	0	0	83	0	0	83	0	0	0	0	0	0	147
8:15 AM	0	0	61	0	0	61	0	0	0	1	0	1	0	0	80	0	0	80	0	0	0	0	0	0	142
8:30 AM	0	0	63	0	0	63	0	2	0	14	0	16	0	0	97	0	0	97	0	0	0	0	0	0	176
8:45 AM	0	0	70	0	2	70	0	11	0	29	0	40	0	0	89	0	3	89	0	2	0	0	0	2	201
Total	0	0	257	0	2	257	0	14	0	44	0	58	0	0	349	0	3	349	0	2	0	0	0	2	666
Approach %	0.0	0.0	100.0	0.0	-	-	0.0	24.1	0.0	75.9	-	-	0.0	0.0	100.0	0.0	-	-	0.0	100.0	0.0	0.0	-	-	-
Total %	0.0	0.0	38.6	0.0	-	38.6	0.0	2.1	0.0	6.6	-	8.7	0.0	0.0	52.4	0.0	-	52.4	0.0	0.3	0.0	0.0	-	0.3	-
PHF	0.000	0.000	0.918	0.000	-	0.918	0.000	0.318	0.000	0.379	-	0.363	0.000	0.000	0.899	0.000	-	0.899	0.000	0.250	0.000	0.000	-	0.250	0.828
Lights	0	0	252	0	-	252	0	14	0	43	-	57	0	0	340	0	-	340	0	2	0	0	-	2	651
% Lights	-	-	98.1	-	-	98.1	-	100.0	-	97.7	-	98.3	-	-	97.4	-	-	97.4	-	100.0	-	-	-	100.0	97.7
Mediums	0	0	5	0	-	5	0	0	0	1	-	1	0	0	9	0	-	9	0	0	0	0	-	0	15
% Mediums	-	-	1.9	-	-	1.9	-	0.0	-	2.3	-	1.7	-	-	2.6	-	-	2.6	-	0.0	-	-	-	0.0	2.3
Articulated Trucks	0	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0	0
% Articulated Trucks	-	-	0.0	-	-	0.0	-	0.0	-	0.0	-	0.0	-	-	0.0	-	-	0.0	-	0.0	-	-	-	0.0	0.0
Pedestrians	-	-	-	-	2	-	-	-	-	-	0	-	-	-	-	-	3	-	-	-	-	-	0	-	-
% Pedestrians	-	-	-	-	100.0	-	-	-	-	-	-	-	-	-	-	-	100.0	-	-	-	-	-	-	-	-

4521.900 Lincolnshire, IL
Old Half Day Rd. and Half Day School Entrance
4-hr
GHA MIO

Gewalt Hamilton Associates Inc.
625 Forest Edge Drive

Vernon Hills, Illinois, United States 60061
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Count Name: Olde Half Day and School Exit
Site Code:
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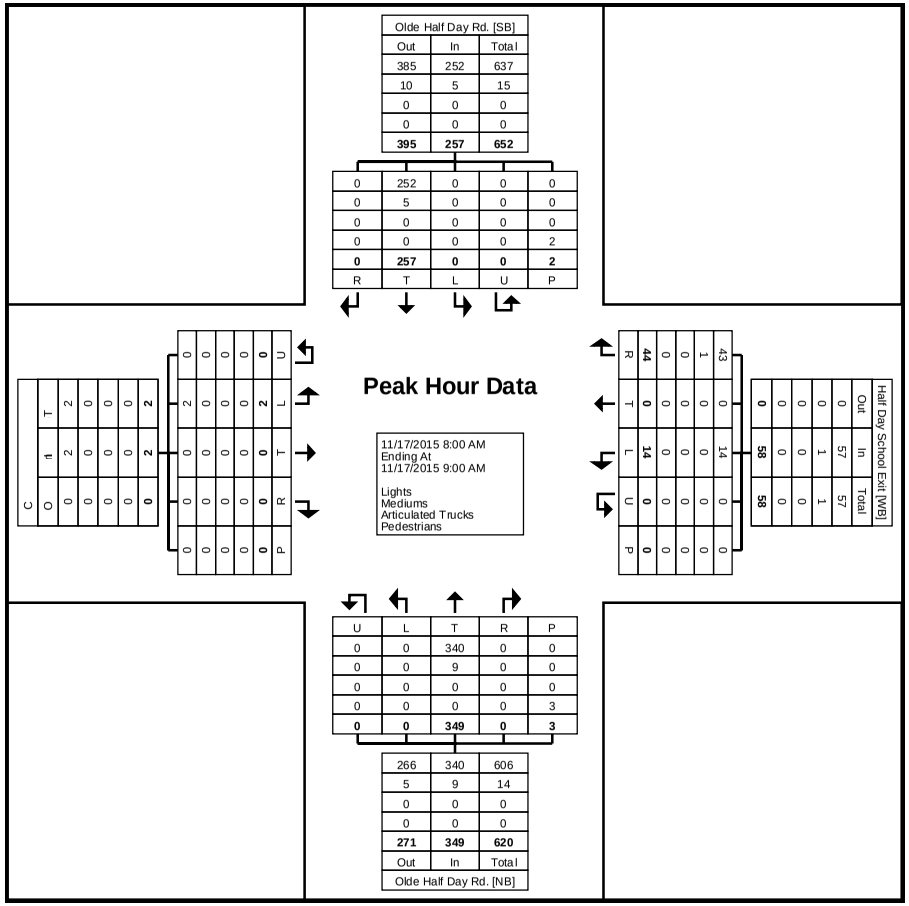

Turning Movement Peak Hour Data Plot (8:00 AM)

4521.900 Lincolnshire, IL
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Count Name: Olde Half Day and School Exit
Site Code:
Start Date: 11/17/2015
Page No: 5

Turning Movement Peak Hour Data (3:00 PM)

Start Time	Olde Half Day Rd. Southbound						Half Day School Exit Westbound						Olde Half Day Rd. Northbound						Church Driveway Eastbound						
	U-Turn	Left	Thru	Right	Peds	App. Total	U-Turn	Left	Thru	Right	Peds	App. Total	U-Turn	Left	Thru	Right	Peds	App. Total	U-Turn	Left	Thru	Right	Peds	App. Total	Int. Total
3:00 PM	0	0	44	0	0	44	0	0	0	2	0	2	0	0	44	0	0	44	0	0	0	0	0	0	90
3:15 PM	0	0	49	0	2	49	0	0	0	2	0	2	0	0	48	0	2	48	0	0	0	0	0	0	99
3:30 PM	0	0	52	1	3	53	0	15	0	36	0	51	0	0	71	0	2	71	0	0	0	0	0	0	175
3:45 PM	0	0	42	1	0	43	0	6	0	5	0	11	0	0	44	0	0	44	0	1	0	0	0	1	99
Total	0	0	187	2	5	189	0	21	0	45	0	66	0	0	207	0	4	207	0	1	0	0	0	1	463
Approach %	0.0	0.0	98.9	1.1	-	-	0.0	31.8	0.0	68.2	-	-	0.0	0.0	100.0	0.0	-	-	0.0	100.0	0.0	0.0	-	-	-
Total %	0.0	0.0	40.4	0.4	-	40.8	0.0	4.5	0.0	9.7	-	14.3	0.0	0.0	44.7	0.0	-	44.7	0.0	0.2	0.0	0.0	-	0.2	-
PHF	0.000	0.000	0.899	0.500	-	0.892	0.000	0.350	0.000	0.313	-	0.324	0.000	0.000	0.729	0.000	-	0.729	0.000	0.250	0.000	0.000	-	0.250	0.661
Lights	0	0	178	2	-	180	0	20	0	45	-	65	0	0	197	0	-	197	0	1	0	0	-	1	443
% Lights	-	-	95.2	100.0	-	95.2	-	95.2	-	100.0	-	98.5	-	-	95.2	-	-	95.2	-	100.0	-	-	-	100.0	95.7
Mediums	0	0	7	0	-	7	0	1	0	0	-	1	0	0	9	0	-	9	0	0	0	0	-	0	17
% Mediums	-	-	3.7	0.0	-	3.7	-	4.8	-	0.0	-	1.5	-	-	4.3	-	-	4.3	-	0.0	-	-	-	0.0	3.7
Articulated Trucks	0	0	2	0	-	2	0	0	0	0	-	0	0	0	1	0	-	1	0	0	0	0	-	0	3
% Articulated Trucks	-	-	1.1	0.0	-	1.1	-	0.0	-	0.0	-	0.0	-	-	0.5	-	-	0.5	-	0.0	-	-	-	0.0	0.6
Pedestrians	-	-	-	-	5	-	-	-	-	-	0	-	-	-	-	-	4	-	-	-	-	-	0	-	-
% Pedestrians	-	-	-	-	100.0	-	-	-	-	-	-	-	-	-	-	-	100.0	-	-	-	-	-	-	-	-

4521.900 Lincolnshire, IL
Old Half Day Rd. and Half Day School Entrance
4-hr
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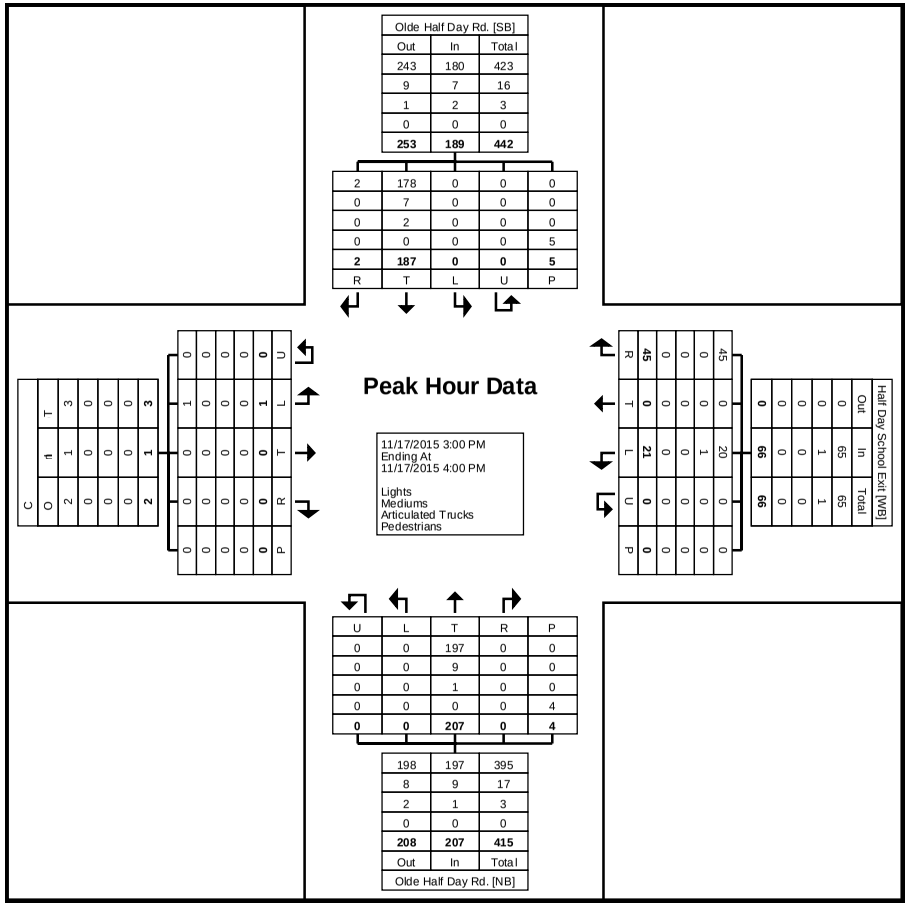
Page No: 6



Turning Movement Peak Hour Data Plot (3:00 PM)

4521.900 Lincolnshire, IL
Olde Half Day Rd. and Half Day School Entrance
4-hr
GHA MIO

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Count Name: Olde Half Day and School Entrance
Site Code:
Start Date: 11/17/2015
Page No: 1

Turning Movement Data

Start Time	Olde Half Day Rd. Southbound						Half Day School Entrance Westbound						Olde Half Day Rd. Northbound						Vernon Library Eastbound						
	U-Turn	Left	Thru	Right	Peds	App. Total	U-Turn	Left	Thru	Right	Peds	App. Total	U-Turn	Left	Thru	Right	Peds	App. Total	U-Turn	Left	Thru	Right	Peds	App. Total	Int. Total
7:30 AM	0	0	79	1	0	80	0	0	0	0	0	0	0	2	75	2	0	79	0	2	0	0	0	2	161
7:45 AM	0	7	91	0	0	98	0	0	0	0	0	0	0	1	84	2	0	87	0	0	0	0	0	0	185
Hourly Total	0	7	170	1	0	178	0	0	0	0	0	0	0	3	159	4	0	166	0	2	0	0	0	2	346
8:00 AM	0	3	61	2	0	66	0	0	0	0	0	0	0	3	68	0	0	71	0	1	0	0	0	1	138
8:15 AM	0	2	58	1	0	61	0	0	0	0	0	0	0	3	62	1	0	66	0	1	0	0	0	1	128
8:30 AM	0	9	56	4	0	69	0	0	0	0	0	0	0	2	90	12	0	104	0	3	0	0	0	3	176
8:45 AM	0	19	48	11	0	78	0	0	0	0	0	0	0	9	89	18	0	116	0	2	0	0	0	2	196
Hourly Total	0	33	223	18	0	274	0	0	0	0	0	0	0	17	309	31	0	357	0	7	0	0	0	7	638
*** BREAK ***	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2:30 PM	0	0	37	4	0	41	0	0	0	0	0	0	0	6	31	3	0	40	0	3	0	4	0	7	88
2:45 PM	0	4	38	3	0	45	0	0	0	0	0	0	0	6	48	1	0	55	0	1	0	6	0	7	107
Hourly Total	0	4	75	7	0	86	0	0	0	0	0	0	0	12	79	4	0	95	0	4	0	10	0	14	195
3:00 PM	0	9	41	3	0	53	0	0	0	0	0	0	0	8	42	5	0	55	0	3	0	6	0	9	117
3:15 PM	0	9	41	6	0	56	0	0	0	0	0	0	0	12	41	13	0	66	0	4	1	8	0	13	135
3:30 PM	0	7	54	9	0	70	0	0	0	0	0	0	0	10	66	9	0	85	0	4	1	5	0	10	165
3:45 PM	0	2	42	3	0	47	0	0	0	0	0	0	0	10	45	3	0	58	0	1	0	6	0	7	112
Hourly Total	0	27	178	21	0	226	0	0	0	0	0	0	0	40	194	30	0	264	0	12	2	25	0	39	529
4:00 PM	0	0	42	8	0	50	0	0	0	0	0	0	0	11	81	2	0	94	0	3	0	11	0	14	158
4:15 PM	0	0	41	8	0	49	0	0	0	0	0	0	0	15	54	2	0	71	0	3	0	13	0	16	136
4:30 PM	0	2	44	2	0	48	0	0	0	0	0	0	0	18	68	1	0	87	0	6	0	8	1	14	149
4:45 PM	0	1	57	6	0	64	0	0	0	0	0	0	0	15	71	3	0	89	0	9	0	5	0	14	167
Hourly Total	0	3	184	24	0	211	0	0	0	0	0	0	0	59	274	8	0	341	0	21	0	37	1	58	610
Grand Total	0	74	830	71	0	975	0	0	0	0	0	0	0	131	1015	77	0	1223	0	46	2	72	1	120	2318
Approach %	0.0	7.6	85.1	7.3	-	-	NaN	NaN	NaN	NaN	-	-	0.0	10.7	83.0	6.3	-	-	0.0	38.3	1.7	60.0	-	-	-
Total %	0.0	3.2	35.8	3.1	-	42.1	0.0	0.0	0.0	0.0	-	0.0	0.0	5.7	43.8	3.3	-	52.8	0.0	2.0	0.1	3.1	-	5.2	-
Lights	0	72	791	71	-	934	0	0	0	0	-	0	0	131	996	77	-	1204	0	46	2	72	-	120	2258
% Lights	-	97.3	95.3	100.0	-	95.8	-	-	-	-	-	-	-	100.0	98.1	100.0	-	98.4	-	100.0	100.0	100.0	-	100.0	97.4
Mediums	0	2	35	0	-	37	0	0	0	0	-	0	0	0	18	0	-	18	0	0	0	0	-	0	55
% Mediums	-	2.7	4.2	0.0	-	3.8	-	-	-	-	-	-	-	0.0	1.8	0.0	-	1.5	-	0.0	0.0	0.0	-	0.0	2.4
Articulated Trucks	0	0	4	0	-	4	0	0	0	0	-	0	0	0	1	0	-	1	0	0	0	0	-	0	5
% Articulated Trucks	-	0.0	0.5	0.0	-	0.4	-	-	-	-	-	-	-	0.0	0.1	0.0	-	0.1	-	0.0	0.0	0.0	-	0.0	0.2
Pedestrians	-	-	-	-	0	-	-	-	-	-	0	-	-	-	-	-	0	-	-	-	-	-	1	-	-
% Pedestrians	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	100.0	-	-

4521.900 Lincolnshire, IL
Olde Half Day Rd. and Half Day School Entrance
4-hr
GHA MIO

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Start Date: 11/17/2015
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Turning Movement Peak Hour Data (8:00 AM)

Start Time	Olde Half Day Rd. Southbound						Half Day School Entrance Westbound						Olde Half Day Rd. Northbound						Vernon Library Eastbound						
	U-Turn	Left	Thru	Right	Peds	App. Total	U-Turn	Left	Thru	Right	Peds	App. Total	U-Turn	Left	Thru	Right	Peds	App. Total	U-Turn	Left	Thru	Right	Peds	App. Total	Int. Total
8:00 AM	0	3	61	2	0	66	0	0	0	0	0	0	0	3	68	0	0	71	0	1	0	0	0	1	138
8:15 AM	0	2	58	1	0	61	0	0	0	0	0	0	0	3	62	1	0	66	0	1	0	0	0	1	128
8:30 AM	0	9	56	4	0	69	0	0	0	0	0	0	0	2	90	12	0	104	0	3	0	0	0	3	176
8:45 AM	0	19	48	11	0	78	0	0	0	0	0	0	0	9	89	18	0	116	0	2	0	0	0	2	196
Total	0	33	223	18	0	274	0	0	0	0	0	0	0	17	309	31	0	357	0	7	0	0	0	7	638
Approach %	0.0	12.0	81.4	6.6	-	-	NaN	NaN	NaN	NaN	-	-	0.0	4.8	86.6	8.7	-	-	0.0	100.0	0.0	0.0	-	-	-
Total %	0.0	5.2	35.0	2.8	-	42.9	0.0	0.0	0.0	0.0	-	0.0	0.0	2.7	48.4	4.9	-	56.0	0.0	1.1	0.0	0.0	-	1.1	-
PHF	0.000	0.434	0.914	0.409	-	0.878	0.000	0.000	0.000	0.000	-	0.000	0.000	0.472	0.858	0.431	-	0.769	0.000	0.583	0.000	0.000	-	0.583	0.814
Lights	0	32	222	18	-	272	0	0	0	0	-	0	0	17	302	31	-	350	0	7	0	0	-	7	629
% Lights	-	97.0	99.6	100.0	-	99.3	-	-	-	-	-	-	-	100.0	97.7	100.0	-	98.0	-	100.0	-	-	-	100.0	98.6
Mediums	0	1	1	0	-	2	0	0	0	0	-	0	0	0	7	0	-	7	0	0	0	0	-	0	9
% Mediums	-	3.0	0.4	0.0	-	0.7	-	-	-	-	-	-	-	0.0	2.3	0.0	-	2.0	-	0.0	-	-	-	0.0	1.4
Articulated Trucks	0	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0	0
% Articulated Trucks	-	0.0	0.0	0.0	-	0.0	-	-	-	-	-	-	-	0.0	0.0	0.0	-	0.0	-	0.0	-	-	-	0.0	0.0
Pedestrians	-	-	-	-	0	-	-	-	-	-	0	-	-	-	-	-	0	-	-	-	-	-	0	-	-
% Pedestrians	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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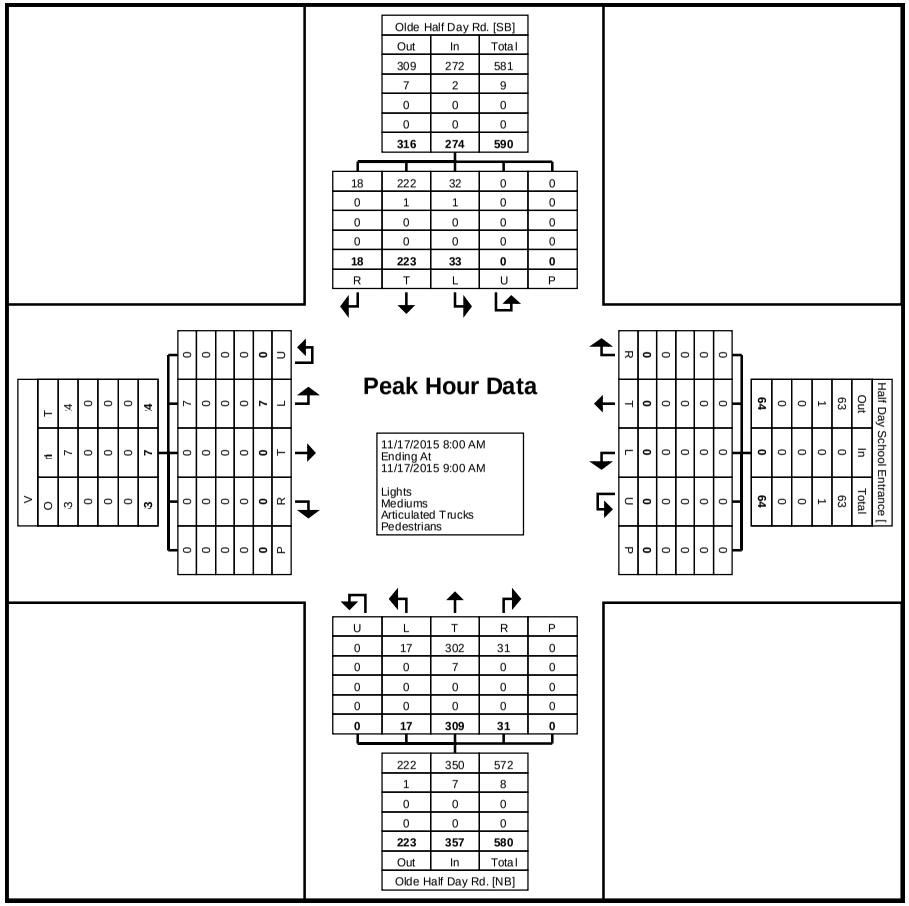

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Turning Movement Peak Hour Data (3:00 PM)

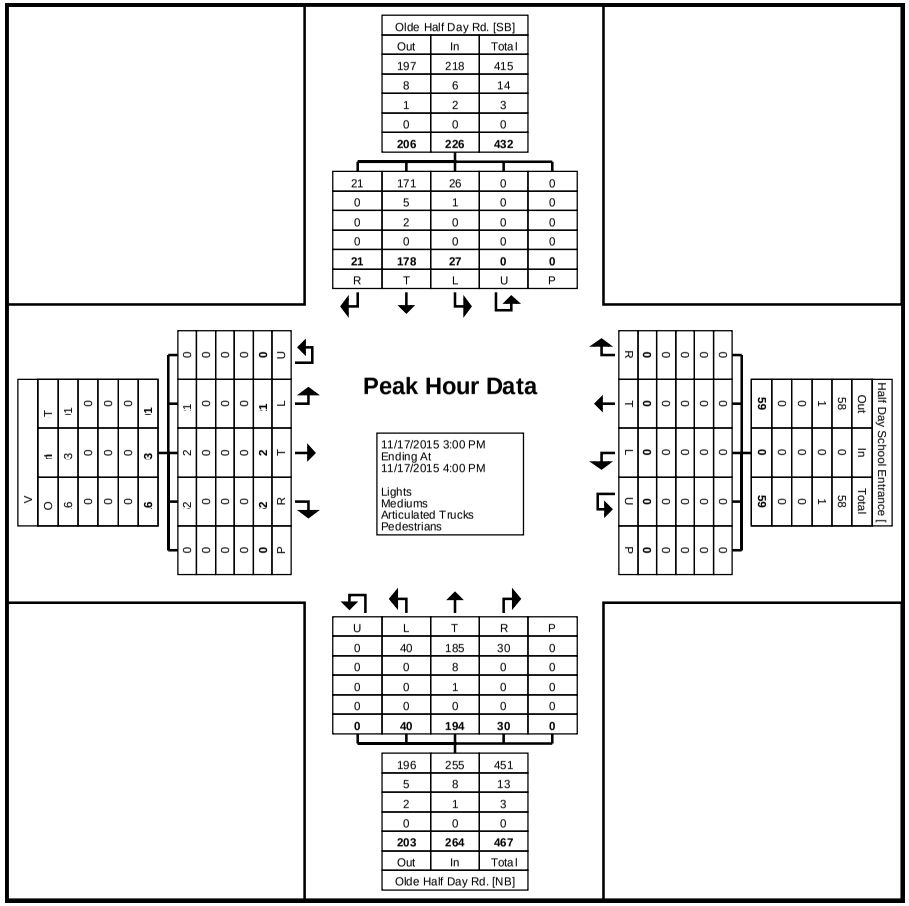
Start Time	Olde Half Day Rd. Southbound						Half Day School Entrance Westbound						Olde Half Day Rd. Northbound						Vernon Library Eastbound						
	U-Turn	Left	Thru	Right	Peds	App. Total	U-Turn	Left	Thru	Right	Peds	App. Total	U-Turn	Left	Thru	Right	Peds	App. Total	U-Turn	Left	Thru	Right	Peds	App. Total	Int. Total
3:00 PM	0	9	41	3	0	53	0	0	0	0	0	0	0	8	42	5	0	55	0	3	0	6	0	9	117
3:15 PM	0	9	41	6	0	56	0	0	0	0	0	0	0	12	41	13	0	66	0	4	1	8	0	13	135
3:30 PM	0	7	54	9	0	70	0	0	0	0	0	0	0	10	66	9	0	85	0	4	1	5	0	10	165
3:45 PM	0	2	42	3	0	47	0	0	0	0	0	0	0	10	45	3	0	58	0	1	0	6	0	7	112
Total	0	27	178	21	0	226	0	0	0	0	0	0	0	40	194	30	0	264	0	12	2	25	0	39	529
Approach %	0.0	11.9	78.8	9.3	-	-	NaN	NaN	NaN	NaN	-	-	0.0	15.2	73.5	11.4	-	-	0.0	30.8	5.1	64.1	-	-	-
Total %	0.0	5.1	33.6	4.0	-	42.7	0.0	0.0	0.0	0.0	-	0.0	0.0	7.6	36.7	5.7	-	49.9	0.0	2.3	0.4	4.7	-	7.4	-
PHF	0.000	0.750	0.824	0.583	-	0.807	0.000	0.000	0.000	0.000	-	0.000	0.000	0.833	0.735	0.577	-	0.776	0.000	0.750	0.500	0.781	-	0.750	0.802
Lights	0	26	171	21	-	218	0	0	0	0	-	0	0	40	185	30	-	255	0	12	2	25	-	39	512
% Lights	-	96.3	96.1	100.0	-	96.5	-	-	-	-	-	-	-	100.0	95.4	100.0	-	96.6	-	100.0	100.0	100.0	-	100.0	96.8
Mediums	0	1	5	0	-	6	0	0	0	0	-	0	0	0	8	0	-	8	0	0	0	0	-	0	14
% Mediums	-	3.7	2.8	0.0	-	2.7	-	-	-	-	-	-	-	0.0	4.1	0.0	-	3.0	-	0.0	0.0	0.0	-	0.0	2.6
Articulated Trucks	0	0	2	0	-	2	0	0	0	0	-	0	0	0	1	0	-	1	0	0	0	0	-	0	3
% Articulated Trucks	-	0.0	1.1	0.0	-	0.9	-	-	-	-	-	-	-	0.0	0.5	0.0	-	0.4	-	0.0	0.0	0.0	-	0.0	0.6
Pedestrians	-	-	-	-	0	-	-	-	-	-	0	-	-	-	-	-	0	-	-	-	-	-	0	-	-
% Pedestrians	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

4521.900 Lincolnshire, IL
Olde Half Day Rd. and Half Day School Entrance
4-hr
GHA MIO

Gewalt Hamilton Associates Inc.
625 Forest Edge Drive

Vernon Hills, Illinois, United States 60061
(847) 478-9700 dbrinkman@gha-engineers.com

Count Name: Olde Half Day and School Entrance
Site Code:
Start Date: 11/17/2015
Page No: 6



Turning Movement Peak Hour Data Plot (3:00 PM)

Appendix C - Site Plan

LEADERS IN LEARNING
LINCOLNSHIRE-PRAIRIE VIEW SCHOOL DISTRICT 103

Wight

Wight & Company
wightco.com
2500 North Frontage Road
Darien, IL 60561
P 630.969.7000
F 630.969.7979

GHA JOB #4521.100

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

REV	DESCRIPTION	DATE
	PER VILLAGE COMMENTS	01.08.2016
	ZONNING BOARD SUBMITTAL	01.04.2015
	COMMITTEE OF THE WHOLE SUBMITTAL	12.04.2015
	DESCRIPTION	DATE

HALF DAY INTERMEDIATE SCHOOL

2425 RIVERWOODS ROAD
LINCOLNSHIRE, IL 60069

PRELIMINARY SITE PLAN

Project Number:
02-5467-05
Drawn By:
LLM
Sheet:

C2.0

Village of Lincolnshire
Zoning Board Submittal Packet

Lincolnshire – Prairie View School District 103
Additions to Laura B. Sprague Elementary School

January 8, 2016

Lincolnshire Prairie View School District 103
1370 N. Riverwoods Road
Lincolnshire, IL 60069

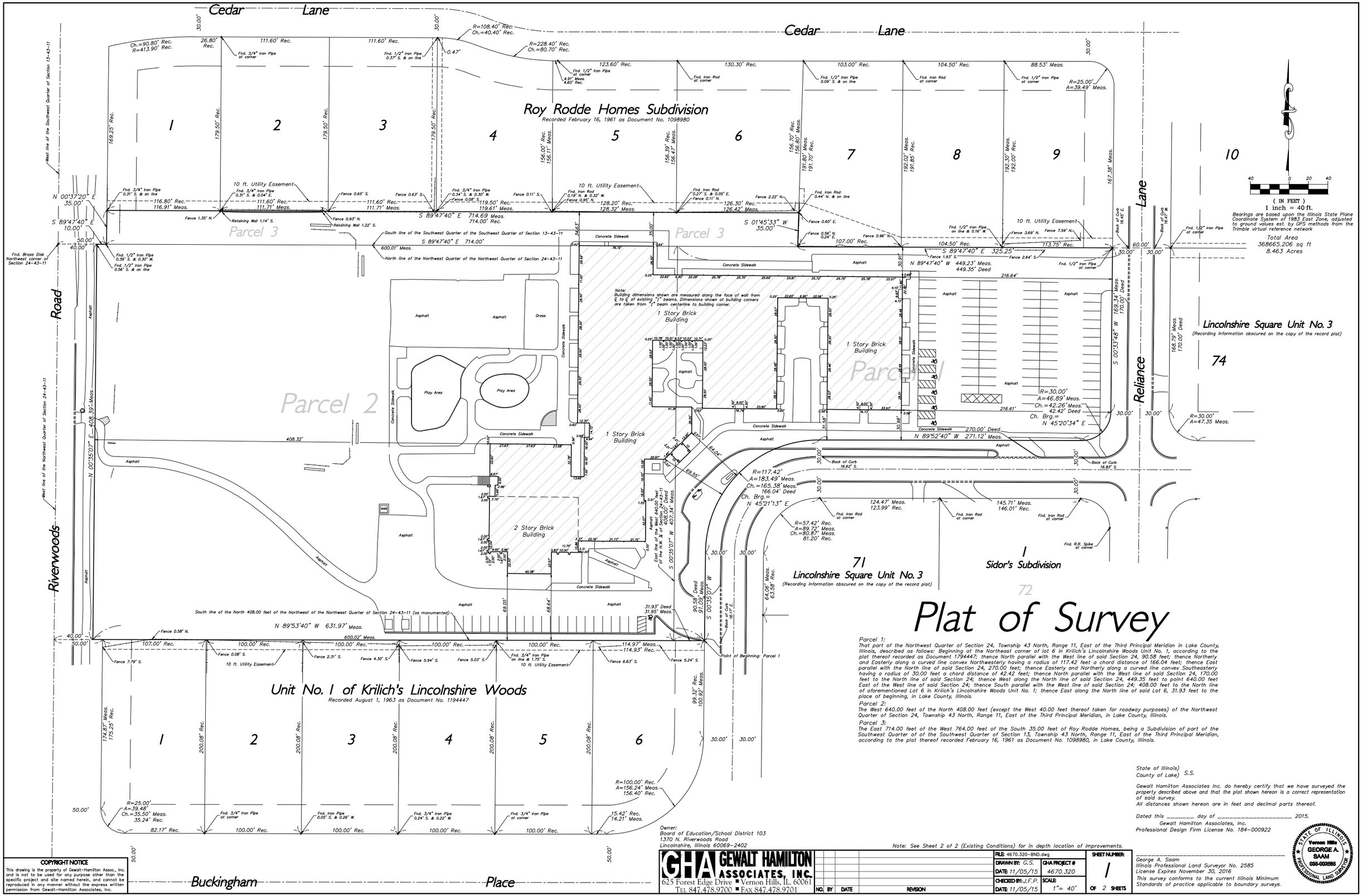
Prepared by:
Wight & Company
2500 North Frontage Road
Darien, IL 60561
630-969-7000

A/E Project No. 02-5467-06

Village of Lincolnshire
Zoning Board Submittal Packet
Lincolnshire – Prairie View School District 103
Additions to Laura B. Sprague Elementary School

Plat of Survey

January 8, 2016



Plat of Survey

Parcel 1:
That part of the Northwest Quarter of Section 24, Township 43 North, Range 11, East of the Third Principal Meridian in Lake County, Illinois, described as follows: Beginning at the Northeast corner of lot 6 in Krilich's Lincolnshire Woods Unit No. 1, according to the plat thereof recorded as Document 1794447; thence North parallel with the West line of said Section 24, 90.58 feet; thence Northerly and Easterly along a curved line convex Northwesterly having a radius of 117.42 feet a chord distance of 166.04 feet; thence East parallel with the North line of said Section 24, 270.00 feet; thence Easterly and Northerly along a curved line convex Southeasterly having a radius of 30.00 feet a chord distance of 42.42 feet; thence North parallel with the West line of said Section 24, 170.00 feet to the North line of said Section 24; thence West along the North line of said Section 24, 449.35 feet to point 640.00 feet East of the West line of said Section 24; thence South parallel with the West line of said Section 24; 408.00 feet to the North line of aforementioned Lot 6 in Krilich's Lincolnshire Woods Unit No. 1; thence East along the North line of said Lot 6, 31.93 feet to the place of beginning, in Lake County, Illinois.

Parcel 2:
The West 640.00 feet of the North 408.00 feet (except the West 40.00 feet thereof taken for roadway purposes) of the Northwest Quarter of Section 24, Township 43 North, Range 11, East of the Third Principal Meridian, in Lake County, Illinois.

Parcel 3:
The East 714.00 feet of the West 764.00 feet of the South 35.00 feet of Roy Rodde Homes, being a Subdivision of part of the Southwest Quarter of of the Southwest Quarter of Section 13, Township 43 North, Range 11, East of the Third Principal Meridian, according to the plat thereof recorded February 16, 1961 as Document No. 1098980, in Lake County, Illinois.

State of Illinois)
County of Lake) S.S.

Gewalt Hamilton Associates Inc. do hereby certify that we have surveyed the property described above and that the plat shown hereon is a correct representation of said survey.
All distances shown hereon are in feet and decimal parts thereof.

Dated this _____ day of _____ 2015.
Gewalt Hamilton Associates, Inc.
Professional Design Firm License No. 184-000922

George A. Saam
Illinois Professional Land Surveyor No. 2585
License Expires November 30, 2016
This survey conforms to the current Illinois Minimum Standards of practice applicable to boundary surveys.

STATE OF ILLINOIS
Vernon Hills
GEORGE A. SAAM
035-002585
PROFESSIONAL LAND SURVEYOR

Owner:
Board of Education/School District 103
1370 N. Riverwoods Road
Lincolnshire, Illinois 60069-2402

Note: See Sheet 2 of 2 (Existing Conditions) for in depth location of improvements.

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

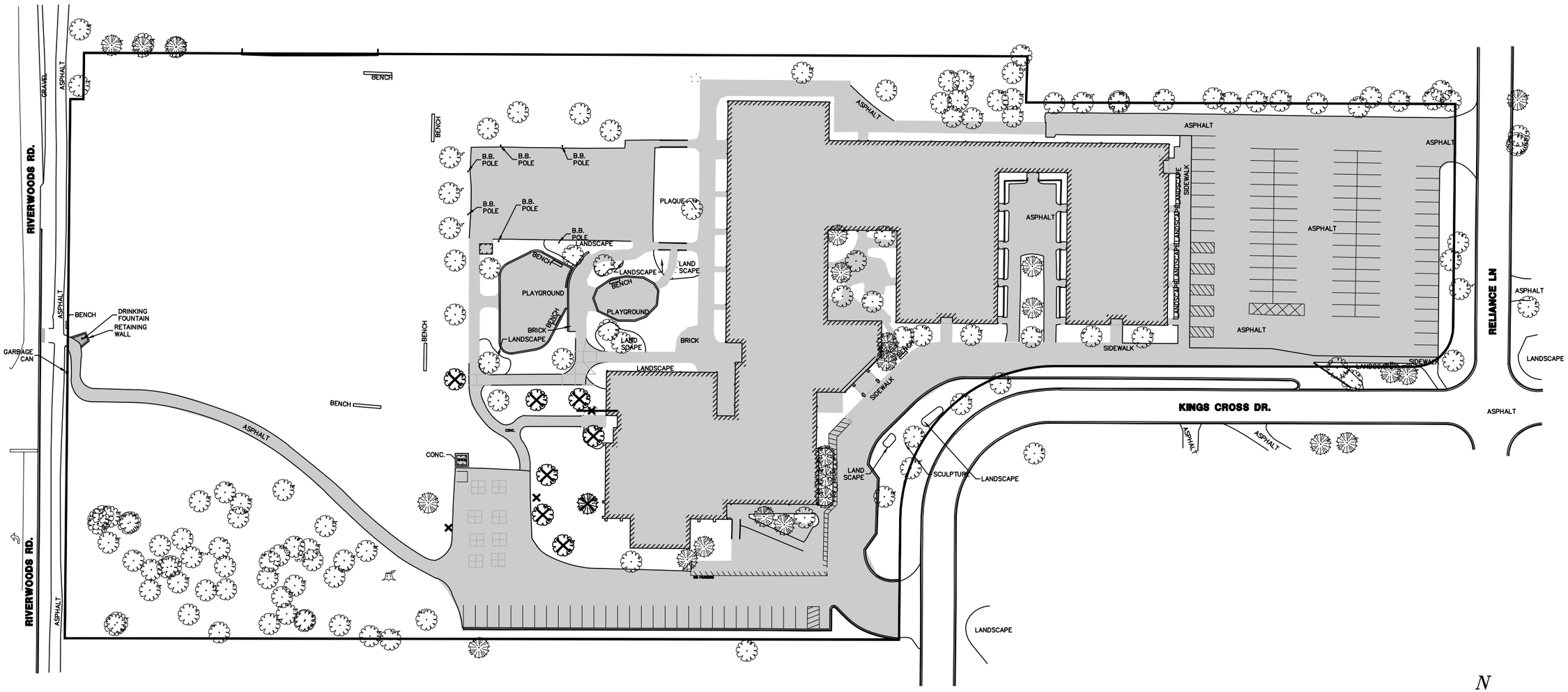
NO.	BY	DATE	REVISION

FILE:	4670.320-BND.dwg
DRAWN BY:	G.S.
GHA PROJECT #	4670.320
DATE	11/05/15
CHECKED BY:	J.F.P.
SCALE:	1"= 40'
DATE	11/05/15
SHEET NUMBER:	1 OF 2 SHEETS

Village of Lincolnshire
Zoning Board Submittal Packet
Lincolnshire – Prairie View School District 103
Additions to Laura B. Sprague Elementary School

Impervious Surface Drawings

January 8, 2016



TOTAL PROPERTY AREA - 8.46 ACRES
PRE-1992 IMPERVIOUS AREA - 3.63 ACRES
CURRENT IMPERVIOUS AREA - 3.93 ACRES

N

GRAPHIC SCALE
80 0 40 80
(IN FEET)
1 inch = 80 ft.

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TEL 847.478.9700 ■ FAX 847.478.9701

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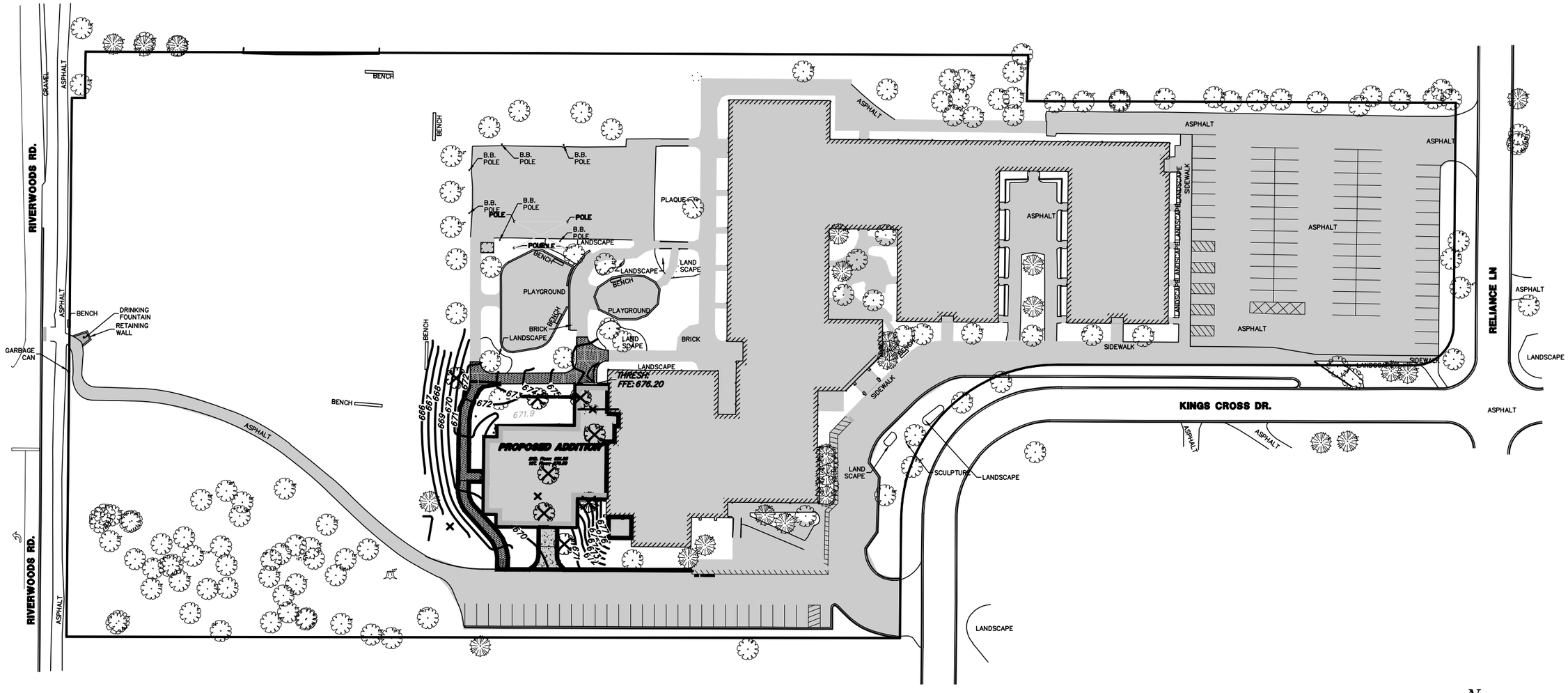
IMPERVIOUS SURFACE - EXISTING

LAURA B. SPRAGUE ELEMENTARY SCHOOL IMPROVEMENTS
PRAIRIEVIEW SCHOOL DISTRICT 103
LINCOLNSHIRE, ILLINOIS

NO.	BY	DATE	REVISION	NO.	BY	DATE	REVISION

FILE: Drainage2.dwg
DRAWN BY: MXH
DATE: 12/29/15
GHA PROJECT #: 4521.100
CHECKED BY: KAJ
DATE: 12/29/15
SCALE: 1"=80'

SHEET NUMBER: 1 OF 2 SHEETS



TOTAL PROPERTY AREA - 8.46 ACRES
PRE-1992 IMPERVIOUS AREA - 3.63 ACRES
CURRENT IMPERVIOUS AREA - 3.93 ACRES
PROPOSED IMPERVIOUS AREA - 3.97 ACRES

INCREASE IN IMPERVIOUS AREA SINCE 1992 - 0.34 ACRES

N

GRAPHIC SCALE
80 0 40 80
(IN FEET)
1 inch = 80 ft.

GHA GEWALT HAMILTON ASSOCIATES, INC.
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TEL 847.478.9700 ■ FAX 847.478.9701

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IMPERVIOUS SURFACE - PROPOSED

LAURA B. SPRAGUE ELEMENTARY SCHOOL IMPROVEMENTS
PRAIRIEVIEW SCHOOL DISTRICT 103
LINCOLNSHIRE, ILLINOIS

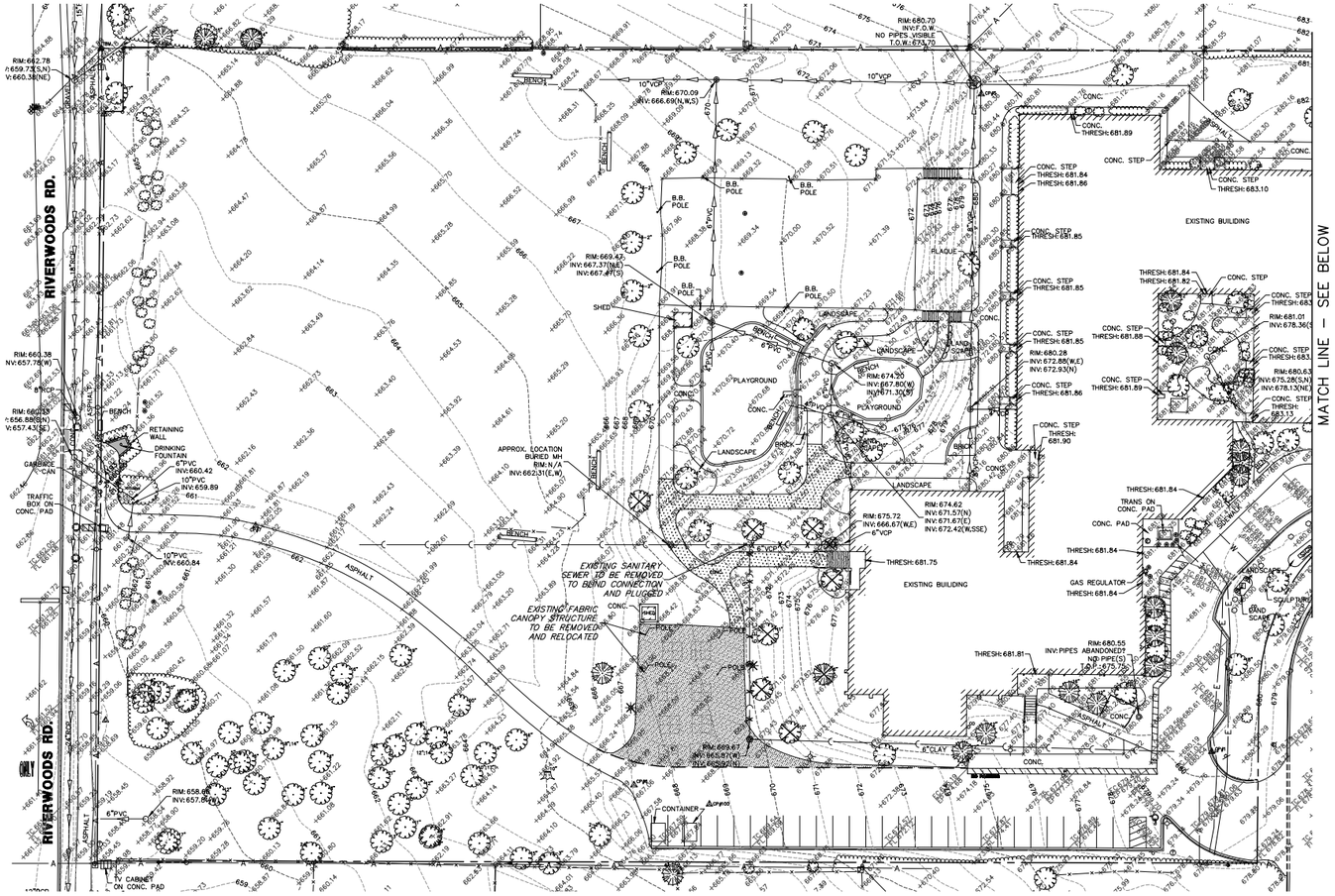
NO.	BY	DATE	REVISION	NO.	BY	DATE	REVISION

FILE: Drainage2.dwg
DRAWN BY: MXH DATE: 12/29/15
GHA PROJECT #: 4521.100
CHECKED BY: KAJ DATE: 12/29/15
SCALE: 1"=80'
SHEET NUMBER: 2 OF 2 SHEETS

Village of Lincolnshire
Zoning Board Submittal Packet
Lincolnshire – Prairie View School District 103
Additions to Laura B. Sprague Elementary School

Civil Drawings

January 8, 2016



LEGEND

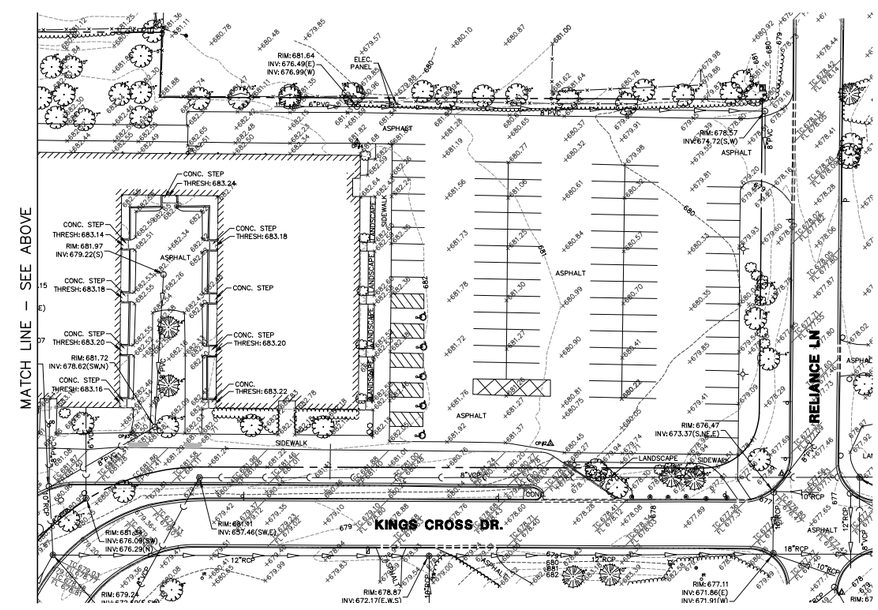
- BITUMINOUS PAVEMENT REMOVAL
- SIDEWALK REMOVAL
- CONCRETE REMOVAL
- SAWCUT
- UTILITY REMOVAL
- UTILITY ABANDON
- STRUCTURE REMOVAL
- TREE/SHRUB REMOVAL
- ROOT PRUNE
- CONSTRUCTION FENCE
- TREE PROTECTION FENCE

N

GRAPHIC SCALE

30 0 15 30

(IN FEET)
1 inch = 30 ft.



LEADERS IN LEARNING
LINCOLNSHIRE-PRAIRIE VIEW SCHOOL DISTRICT 103

Wight

Wight & Company
wightco.com

2500 North Frontage Road
Darien, IL 60561

P 630.969.7000
F 630.969.7979

GHA JOB #4521.100

GEWALT HAMILTON ASSOCIATES, INC.
625 Forest Edge Drive ▪ Vernon Hills, IL 60061
Tel. 847.478.9700 ▪ Fax 847.478.9701

REV	DESCRIPTION	DATE

DESCRIPTION	DATE
ZONING BOARD SUBMISSION	01.04.2015
COMMITTEE OF THE WHOLE SUBMITTAL	12.04.2015

LAURA B. SPRAGUE ELEMENTARY SCHOOL

2425 RIVERWOODS ROAD
LINCOLNSHIRE, IL 60069

EXISTING CONDITIONS/ DEMOLITION PLAN

Project Number:
02-5467-05
Drawn By:
KAJ/ALC
Sheet:

C3.0

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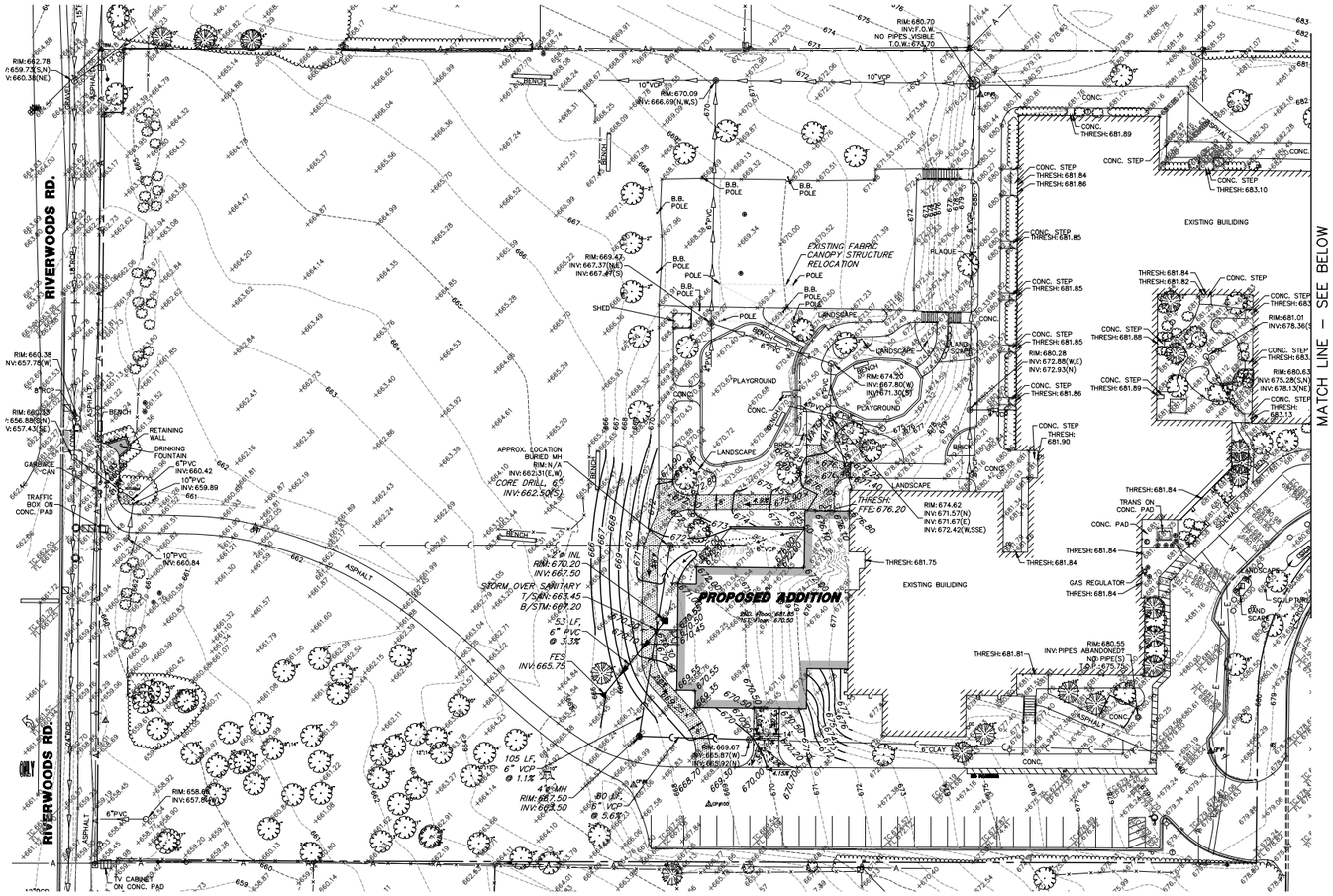


LEGEND

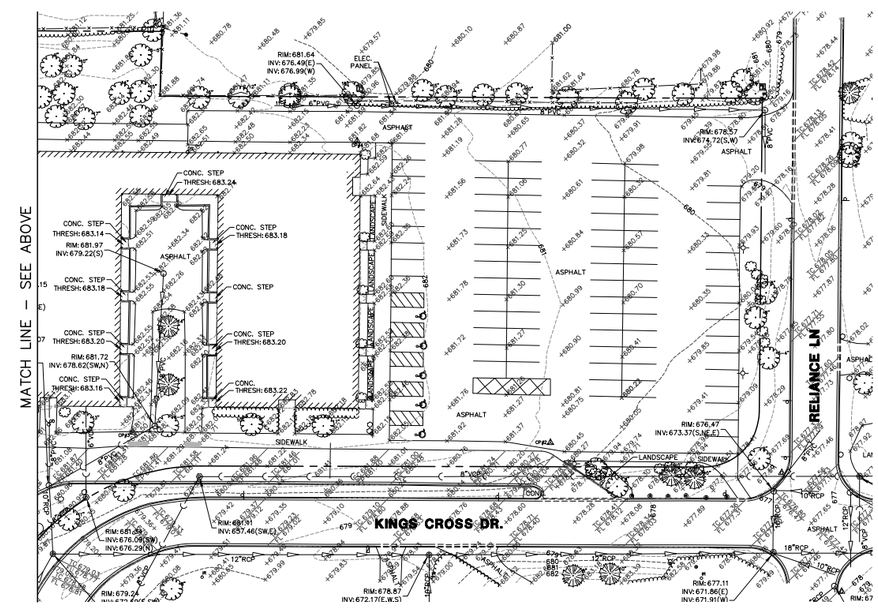
- CONCRETE SIDEWALK
- CONCRETE PAVEMENT
- PROPOSED CONTOUR — 672 —
- PROPOSED RETAINING WALL
- PROPOSED SPOT ELEVATION × 670.30

N

GRAPHIC SCALE

30 0 15 30

(IN FEET)
1 inch = 30 ft.



LEADERS IN LEARNING
LINCOLNSHIRE-PRAIRIE VIEW SCHOOL DISTRICT 103

Wight

Wight & Company
wightco.com
2500 North Frontage Road
Darien, IL 60561
P 630.969.7000
F 630.969.7979

GHA JOB #4521.100

GHA GEWALT HAMILTON ASSOCIATES, INC.
625 Forest Edge Drive ▪ Vernon Hills, IL 60061
Tel. 847.478.9700 ▪ Fax 847.478.9701

REV	DESCRIPTION	DATE

DESCRIPTION	DATE
ZONING BOARD SUBMISSION	01.04.2015
COMMITTEE OF THE WHOLE SUBMITTAL	12.04.2015

LAURA B. SPRAGUE ELEMENTARY SCHOOL

2425 RIVERWOODS ROAD
LINCOLNSHIRE, IL 60069

PRELIMINARY SITE PLAN

Project Number:
02-5467-05
Drawn By:
KAJ/ALC
Sheet:

C4.0

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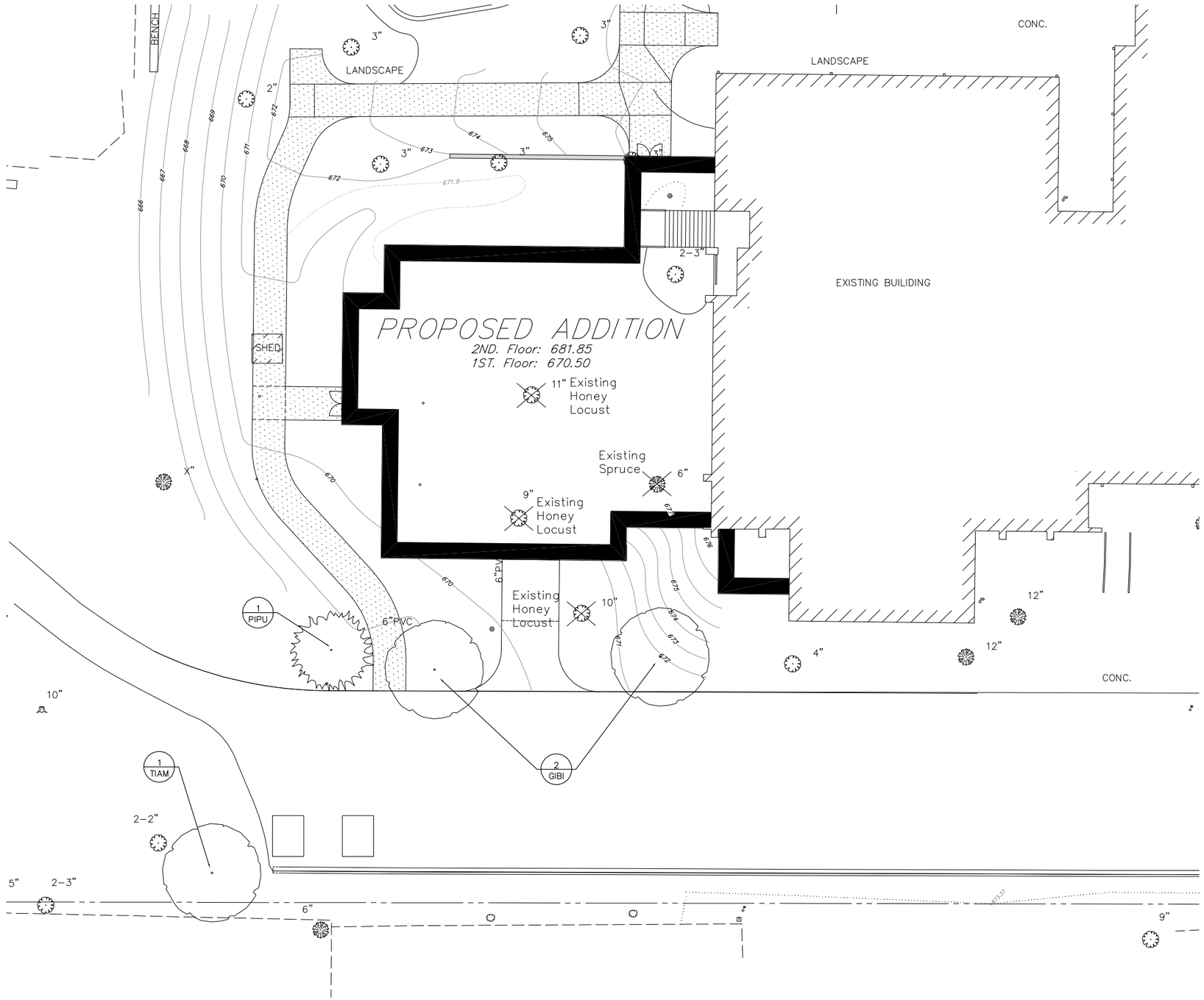
Village of Lincolnshire
Zoning Board Submittal Packet
Lincolnshire – Prairie View School District 103
Additions to Laura B. Sprague Elementary School

Landscape Drawings

January 8, 2016



TP1 / L1.00 TREE PLAN– GLARE SCREENING
SCALE: 1"=10'

LEGEND

- BITUMINOUS PAVEMENT REMOVAL
- SIDEWALK REMOVAL
- STRUCTURE REMOVAL
- TREE/SHRUB REMOVAL
- PROPOSED DECIDUOUS TREE
- PROPOSED EVERGREEN TREE

Proposed Tree Schedule

QTY	KEY	Species	Unit DBH	Net DBH
Evergreens to be Removed				
1		Spruce (sp.)	6.0	6.0
Evergreens to be Planted				
1	PIPU	Colorado Blue Spruce-8'	3.0	3.0
Deciduous Trees to be Removed				
1		Honey Locust	9.0	9.0
1		Honey Locust	10.0	10.0
1		Honey Locust	11.0	11.0
Deciduous Trees to be Planted				
2	GIBI	Princeton Sentry Ginkgo(Male)	3.0	6.0
1	TIAM	American Linden	3.0	3.0

LANDSCAPE NOTES

1. ANY DAMAGE TO THE RIGHT–OF–WAY DURING DEMOLITION SHALL BE RESTORED TO EXISTING CONDITIONS.
2. ALL DIMENSIONS ARE TO THE BACK OF CURB/EDGE OF PAVEMENT UNLESS OTHERWISE SHOWN. ALL RADII DIMENSIONS ARE TO THE BACK OF CURB/EDGE OF PAVEMENT.
3. CONTRACTOR TO PROTECT ALL EXISTING UTILITIES DURING DEMOLITION AND CONSTRUCTION ACTIVITIES UNLESS OTHERWISE SPECIFIED.
4. ALL EXISTING TREES TO REMAIN AND TO BE PROTECTED UNLESS OTHERWISE NOTED.
5. ANY UTILITY ADJUSTMENTS, CONFLICTS, RELOCATIONS, ETC. REQUIRED SHALL BE COORDINATED WITH ENGINEER AND UTILITY OWNER/PROVIDER.
6. ALL REMOVAL OF CONCRETE SHALL BE DONE TO THE NEAREST JOINT.
7. ANY DAMAGE TO THE LANDSCAPE AREAS SHALL BE RESTORED TO EXISTING CONDITIONS.
8. PROPOSED LANDSCAPE CONFORMS TO VILLAGE ORDINANCE. SPECIES (DECIDUOUS/CONIFEROUS) CONCESSIONS MAY BE TAKEN INTO CONSIDERATION WITH VILLAGE APPROVALS.

LEADERS IN LEARNING
LINCOLNSHIRE-PRAIRIE VIEW SCHOOL DISTRICT 103

Wight
Wight & Company
wightco.com
2500 North Frontage Road
Darien, IL 60561
P 630.969.7000
F 630.969.7979

GHA GEWALT HAMILTON ASSOCIATES, INC.
625 Forest Edge Drive ▪ Vernon Hills, IL 60061
Tel. 847.478.9700 ▪ Fax 847.478.9701

N
Wight
GRAPHIC SCALE
10 0 5 10 20
1 INCH = 10 FEET

REV	DESCRIPTION	DATE
	ZONING BOARD REVISION 1	01.12.2016
	ZONING BOARD SUBMITTAL	01.04.2016

LAURA B. SPRAGUE ELEMENTARY SCHOOL

2425 RIVERWOODS ROAD
LINCOLNSHIRE, IL 60069

PROPOSED TREE PLAN

Project Number:
02-5467-05
Drawn By:
Sheet:
L1.00

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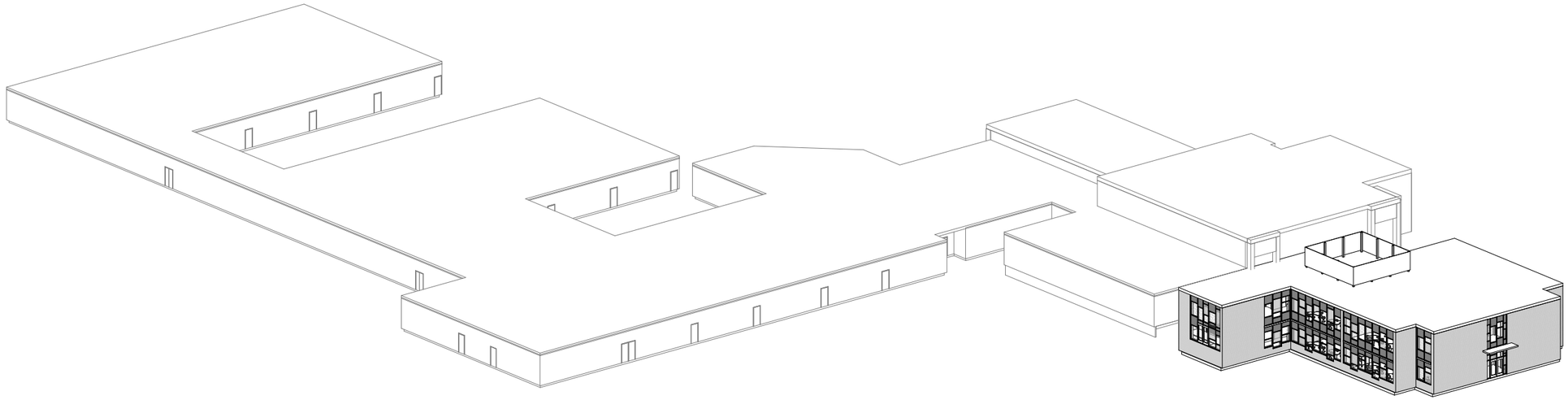
Village of Lincolnshire
Zoning Board Submittal Packet
Lincolnshire – Prairie View School District 103
Additions to Laura B. Sprague Elementary School

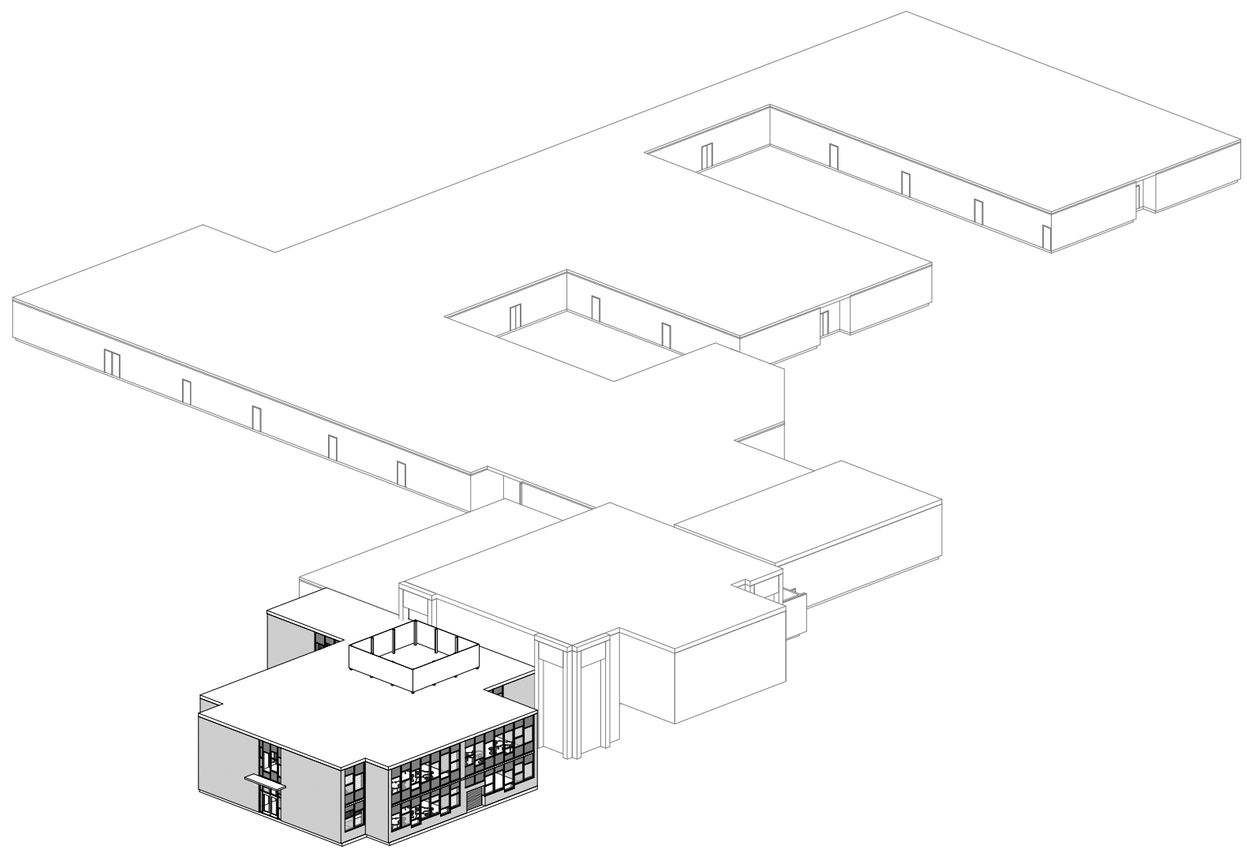
3D Massing Views

January 8, 2016



1 L-A3.2 3-D MASSING VIEW FROM NORTHWEST

SCALE:



2 L-A3.2 3-D MASSING VIEW FROM SOUTHWEST

SCALE:

SCALE: 0' - 0 1/16" = 1' - 0" 0' 8' - 0" 16' - 0" 32' - 0"

SCALE: 0' - 0 1/8" = 1' - 0" 0' 4' - 0" 8' - 0" 16' - 0"

SCALE: 0' - 0 1/4" = 1' - 0" 0' 2' - 0" 4' - 0" 8' - 0"

SCALE: 0' - 0 3/8" = 1' - 0" 0' 2' - 0" 4' - 0" 8' - 0"

SCALE: 0' - 0 1/2" = 1' - 0" 0' 1' - 0" 2' - 0" 4' - 0"

SCALE: 0' - 0 3/4" = 1' - 0" 0' 1' - 0" 2' - 0" 4' - 0"

SCALE: 0' - 1" = 1' - 0" 0' 0' - 6" 1' - 0" 2' - 0"

SCALE: 0' - 1 1/2" = 1' - 0" 0' 0' - 6" 1' - 0" 2' - 0"

SCALE: 0' - 3" = 1' - 0" 0' 0' - 3" 0' - 6" 1' - 0"

LEADERS IN LEARNING
LINCOLNSHIRE-PRAIRIE VIEW
SCHOOL DISTRICT 103

Wight

Wight & Company
wightco.com
2500 North Frontage Road
Darien, IL 60561
P 630.969.7000
F 630.969.7979

NOT FOR CONSTRUCTION

REV	DESCRIPTION	DATE
	ZONING BOARD SUBMITTAL	01.04.2016

LAURA B. SPRAGUE ELEMENTARY SCHOOL

2425 RIVERWOODS ROAD
LINCOLNSHIRE, IL 60069

3-D MASSING MODEL

Project Number:
02-5467-05
Drawn By:
Author
Sheet:

L-A3.2

14/2016 2:17:24 PM
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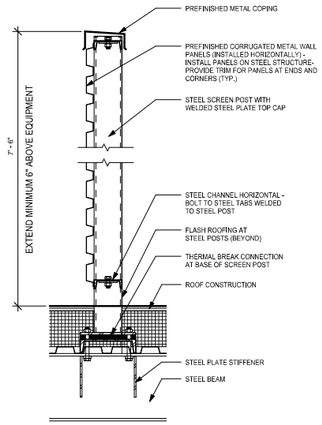
Village of Lincolnshire
Zoning Board Submittal Packet
Lincolnshire – Prairie View School District 103
Additions to Laura B. Sprague Elementary School

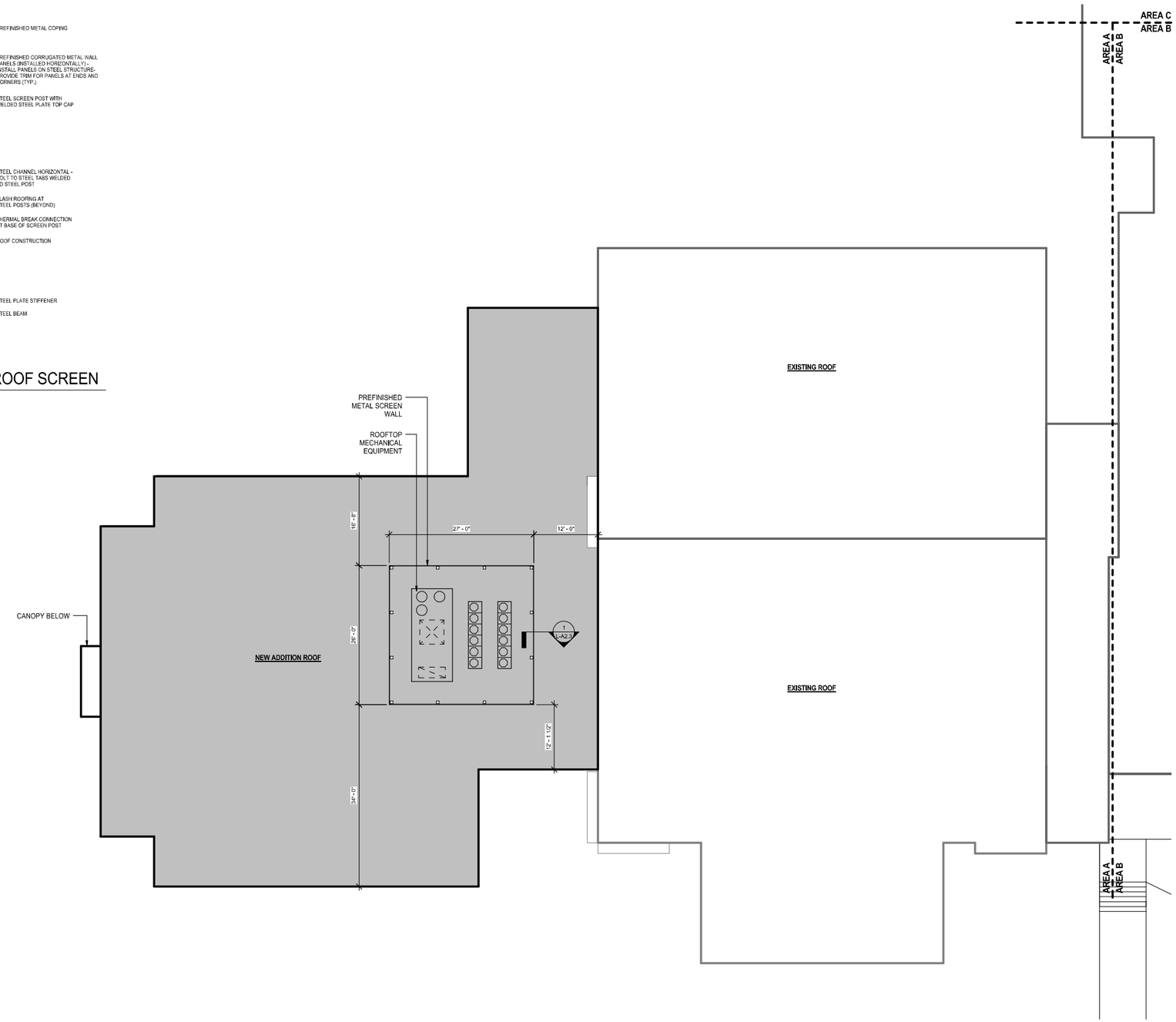
Architectural Drawings

January 8, 2016



1 L-A2.3 WALL SECTION - ROOF SCREEN

SCALE: 1" = 1'-0"



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SCALE: 0' - 0 1/8" = 1' - 0" | 0' 4' - 0" 8' - 0" 16' - 0"

SCALE: 0' - 0 1/4" = 1' - 0" | 0' 2' - 0" 4' - 0" 8' - 0"

SCALE: 0' - 0 3/8" = 1' - 0" | 0' 2' - 0" 4' - 0" 8' - 0"

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SCALE: 0' - 0 3/4" = 1' - 0" | 0' 1' - 0" 2' - 0" 4' - 0"

SCALE: 0' - 1" = 1' - 0" | 0' 0' - 6" 1' - 0" 2' - 0"

SCALE: 0' - 1 1/2" = 1' - 0" | 0' 0' - 6" 1' - 0" 2' - 0"

SCALE: 0' - 3" = 1' - 0" | 0' 0' - 3" 0' - 6" 1' - 0"

LEADERS IN LEARNING
LINCOLNSHIRE-PRAIRIE VIEW SCHOOL DISTRICT 103

Wight

Wight & Company
wightco.com
2500 North Frontage Road
Darien, IL 60561
P 630.969.7000
F 630.969.7979

NOT FOR CONSTRUCTION

REV	DESCRIPTION	DATE
	ZONING BOARD SUBMITTAL	01.04.2016
	COMMITTEE OF THE WHOLE SUBMITTAL	12.04.2015
	DESCRIPTION	DATE

LAURA B. SPRAGUE ELEMENTARY SCHOOL

2425 RIVERWOODS ROAD
LINCOLNSHIRE, IL 60069

ROOF PLAN - AREA A

Project Number:
02-5467-05
Drawn By:
Author
Sheet:
L-A2.3

12/23/2015 9:09:30 AM
C:\Users\wdelprete\Documents\02-5467-05_Laura Sprague_ARCH_2016_Central_wdelprete.rvt

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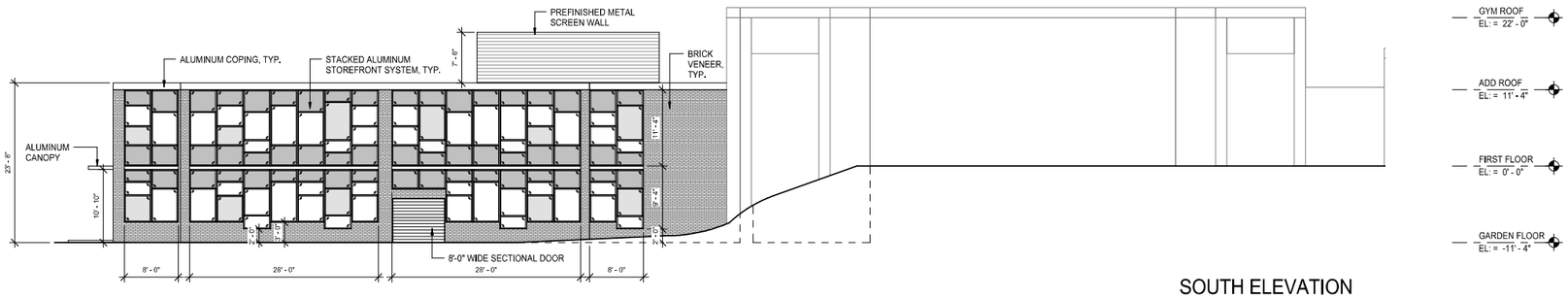
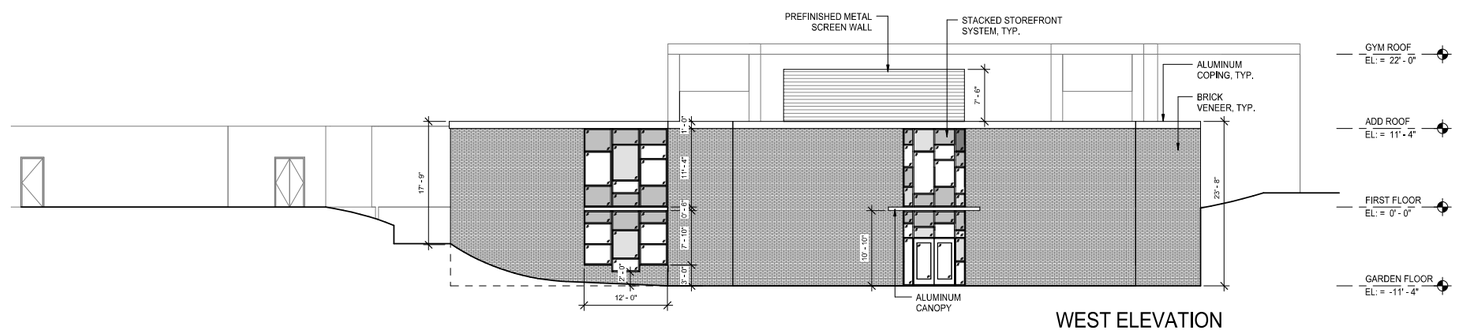
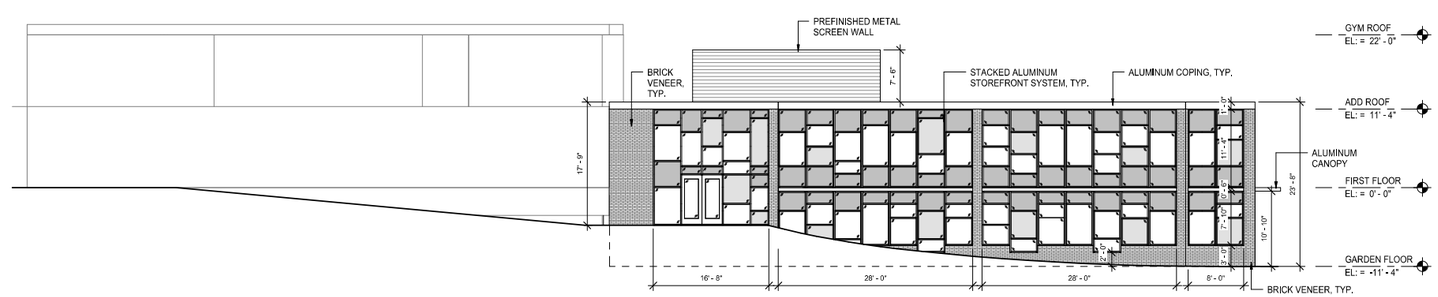


SOUTH ELEVATION



WEST ELEVATION



NORTH ELEVATION

SCALE: 0' - 0 1/16" = 1' - 0" | SCALE: 0' - 0 1/8" = 1' - 0" | SCALE: 0' - 0 1/4" = 1' - 0" | SCALE: 0' - 0 3/8" = 1' - 0" | SCALE: 0' - 0 1/2" = 1' - 0" | SCALE: 0' - 0 3/4" = 1' - 0" | SCALE: 0' - 1" = 1' - 0" | SCALE: 0' - 1 1/2" = 1' - 0" | SCALE: 0' - 3" = 1' - 0"

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LEADERS IN LEARNING
LINCOLNSHIRE-PRAIRIE VIEW SCHOOL DISTRICT 103

Wight

Wight & Company
wightco.com
2500 North Frontage Road
Darien, IL 60561
P 630.969.7000
F 630.969.7979

NOT FOR CONSTRUCTION

REV	DESCRIPTION	DATE
	ZONING BOARD SUBMITTAL	01.04.2016
	COMMITTEE OF THE WHOLE SUBMITTAL	12.04.2015
	DESCRIPTION	DATE

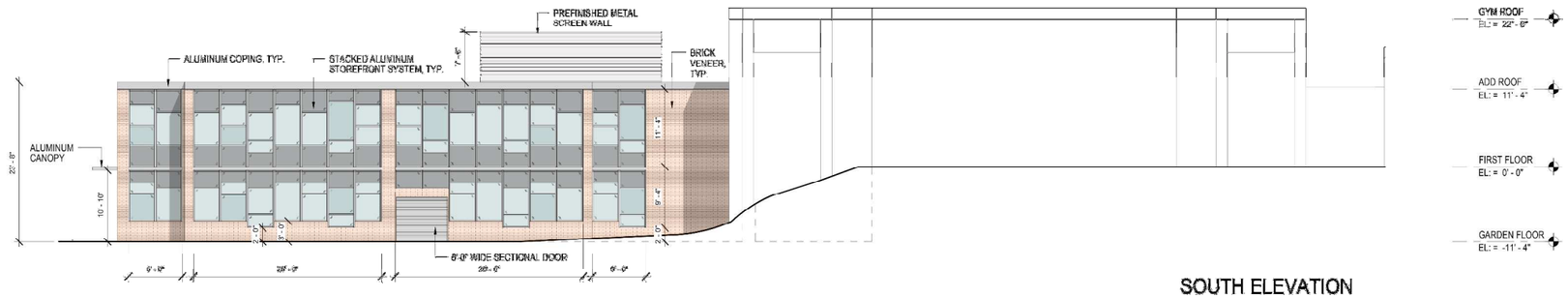
LAURA B. SPRAGUE ELEMENTARY SCHOOL

2425 RIVERWOODS ROAD
LINCOLNSHIRE, IL 60069

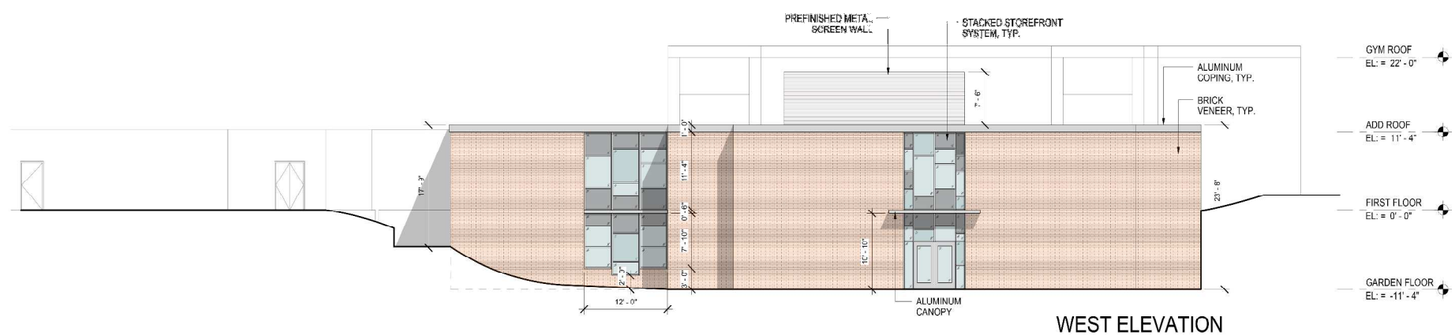
EXTERIOR ELEVATIONS

Project Number:
02-5467-05
Drawn By:
Author
Sheet:

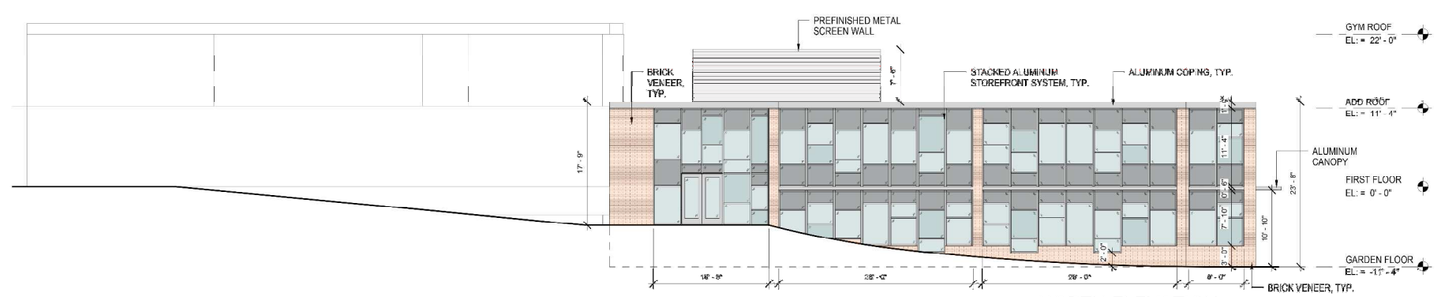
L-A3.0



SOUTH ELEVATION



WEST ELEVATION



NORTH ELEVATION

SCALE: 0' - 0 1/16" = 1' - 0"	SCALE: 0' - 0 1/8" = 1' - 0"	SCALE: 0' - 0 1/4" = 1' - 0"	SCALE: 0' - 0 3/8" = 1' - 0"	SCALE: 0' - 0 1/2" = 1' - 0"	SCALE: 0' - 0 3/4" = 1' - 0"	SCALE: 0' - 1" = 1' - 0"	SCALE: 0' - 1 1/2" = 1' - 0"	SCALE: 0' - 3" = 1' - 0"
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LEADERS IN LEARNING
LINCOLNSHIRE-PRAIRIE VIEW SCHOOL DISTRICT 103

Wight
Wight & Company
wightcoo.com
2500 North Frontage Road
Darien, IL 60561
P 630.969.7000
F 630.969.7979

NOT FOR CONSTRUCTION

REV	DESCRIPTION	DATE
	ZONING BOARD SUBMITTAL	01.04.2016
	DESCRIPTION	DATE

LAURA B. SPRAGUE ELEMENTARY SCHOOL

2425 RIVERWOODS ROAD
LINCOLNSHIRE, IL 60069

EXTERIOR ELEVATION RENDERINGS

Project Number:
02-5467-05
Drawn By:
Author
Sheet:

L-A3.1

Village of Lincolnshire
Zoning Board Submittal Packet
Lincolnshire – Prairie View School District 103
Additions to Laura B. Sprague Elementary School

Sun Study

January 8, 2016

Lincolnshire – Prairie View School District 103
Sprague School Addition Sun Study

12/24/2015

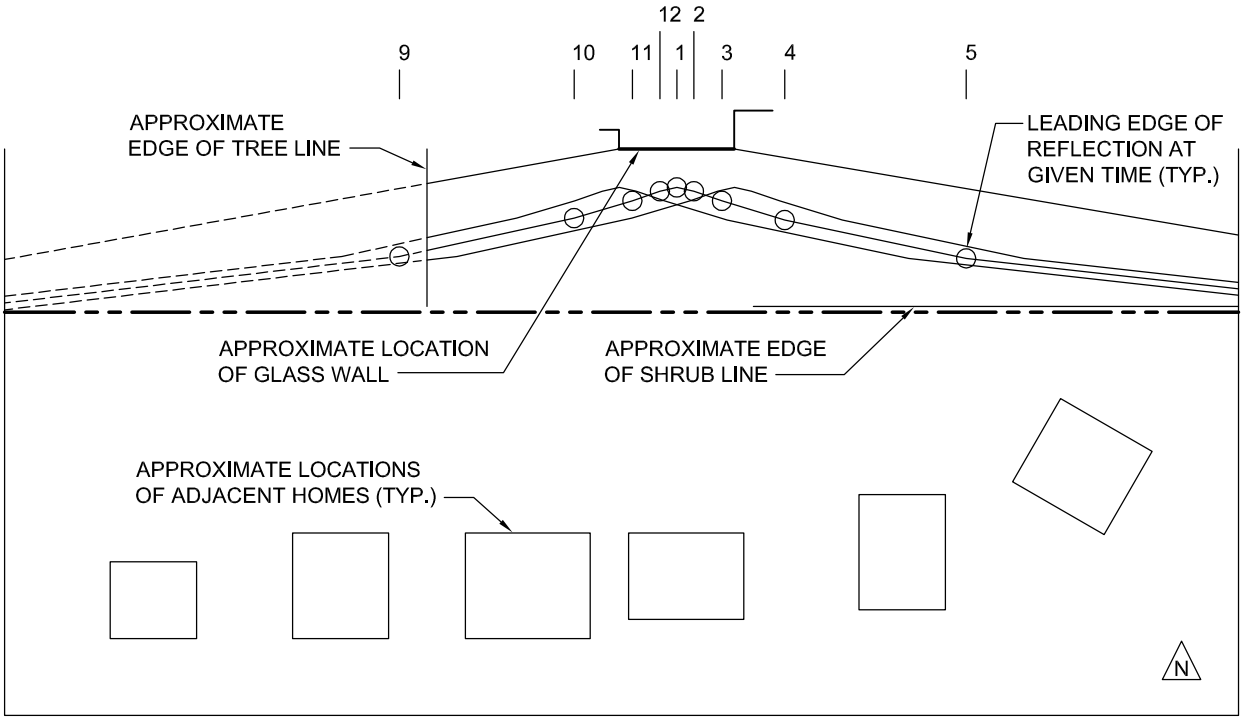
Per the request of the Village of Lincolnshire, in response to concerns about potential sunlight reflected off the glass wall of the Sprague School addition, the following diagrams have been prepared to represent the anticipated path of reflected sunlight for the dates indicated on each diagram. Altitude and azimuth information used to calculate the leading edge of reflected sunlight was obtained from the website of the Astronomical Applications Department of the United States Naval Observatory (http://aa.usno.navy.mil/data/docs/AltAz.php). No survey data for the locations of the homes adjacent to Sprague School is currently available, and as such their depicted locations have been approximated from a digital aerial photograph obtained from Google Maps. The existing school building, for which the dimensions are known, was used to approximate the appropriate scale for the digital aerial photograph.

Note that the sun study diagrams that have been generated assume a flat terrain, which is not an accurate representation of the current site conditions. Based on the known elevations of the school site, which increase to the east and decrease to the west, it is anticipated that the leading edge of the reflected sunlight will be shortened to the east and lengthened to the west. This will correspondingly shorten and lengthen the duration that an adjacent home may experience reflected sunlight exposure.

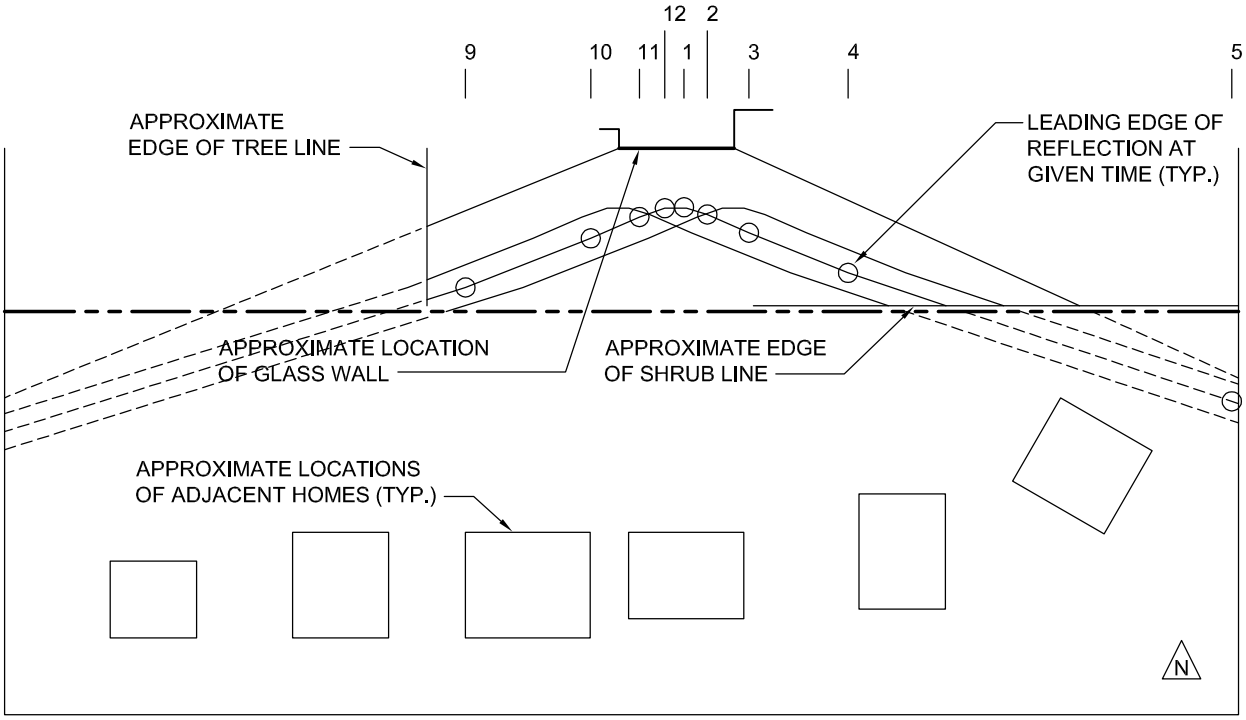
The approximate path of reflected sunlight was calculated for four individual days of the year. December 21 was selected to represent the greatest potential for reflected sunlight, with the lowest altitude and azimuth angles occurring at that time of year. The 21st days of November, October, and September were also selected to illustrate the change in the path of reflected sunlight over time. It is assumed that the 21st days of January, February, and March will roughly correspond to their opposing fall months opposite the December 21 date.

Of the six homes to the immediate south of the Sprague School addition only two will have any chance of exposure to reflected sunlight off the glass wall, including the home furthest to the west and the home furthest to the east. It is anticipated that the home furthest to the west will begin to fall into the path of reflected sunlight early in the month of December, and will reach its peak exposure on December 21 where it would be in the reflected sunlight path for roughly the first hour of the day following sunrise. As per the terrain conditions previously noted; included in this estimate is an increase of approximately 15 minutes to account for the decrease in elevation. There is currently a substantially wooded area separating this home from the Sprague School addition, the effect of which has not been calculated in this study. It is anticipated that the home furthest to the east will begin to fall into the path of reflected sunlight early in the month of November, and will reach its peak exposure on December 21 where it will be in that path for roughly the last hour of the day preceding sunset. As per the terrain conditions previously noted; included in this estimate is a decrease of approximately 15 minutes to account for the increase in elevation. There is currently a modestly wooded area separating this home from the Sprague School addition, the effect of which has not been calculated in this study.

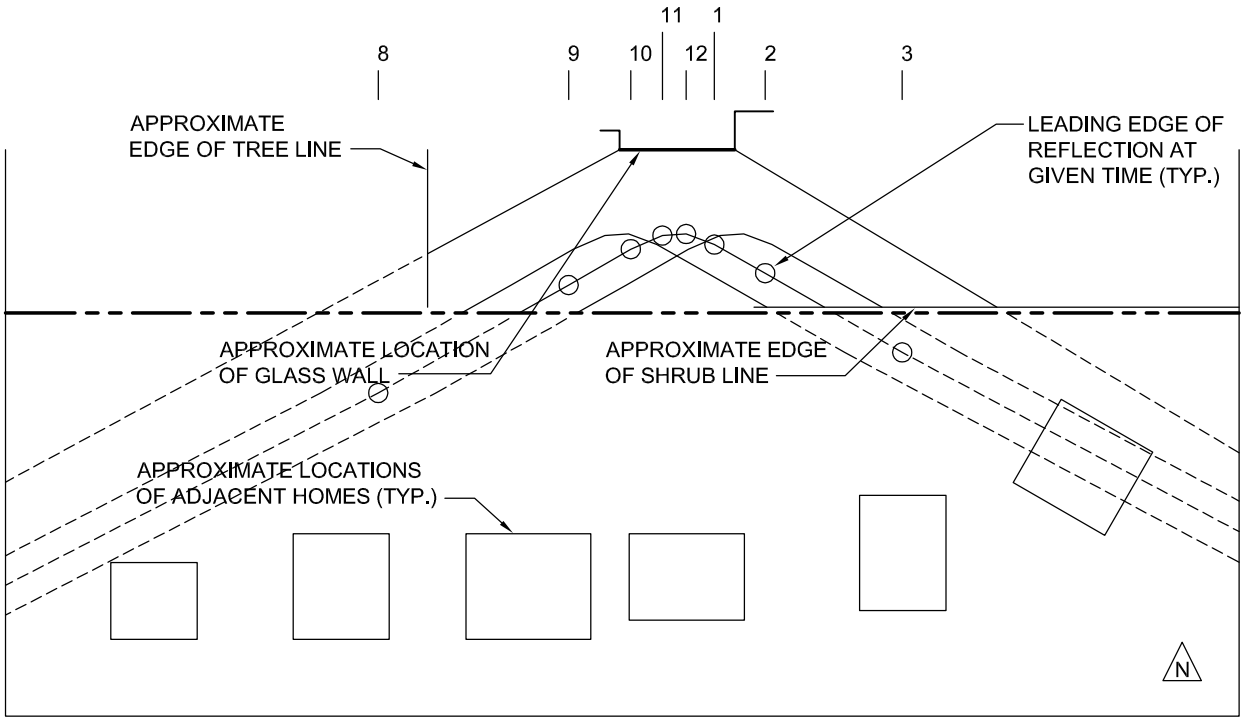
The current intent is to use a glass product that is equivalent to PPG's Solarban 70XL Clear glass, which is listed as having a 12% visible light reflectance (see attached product data sheet for reference).



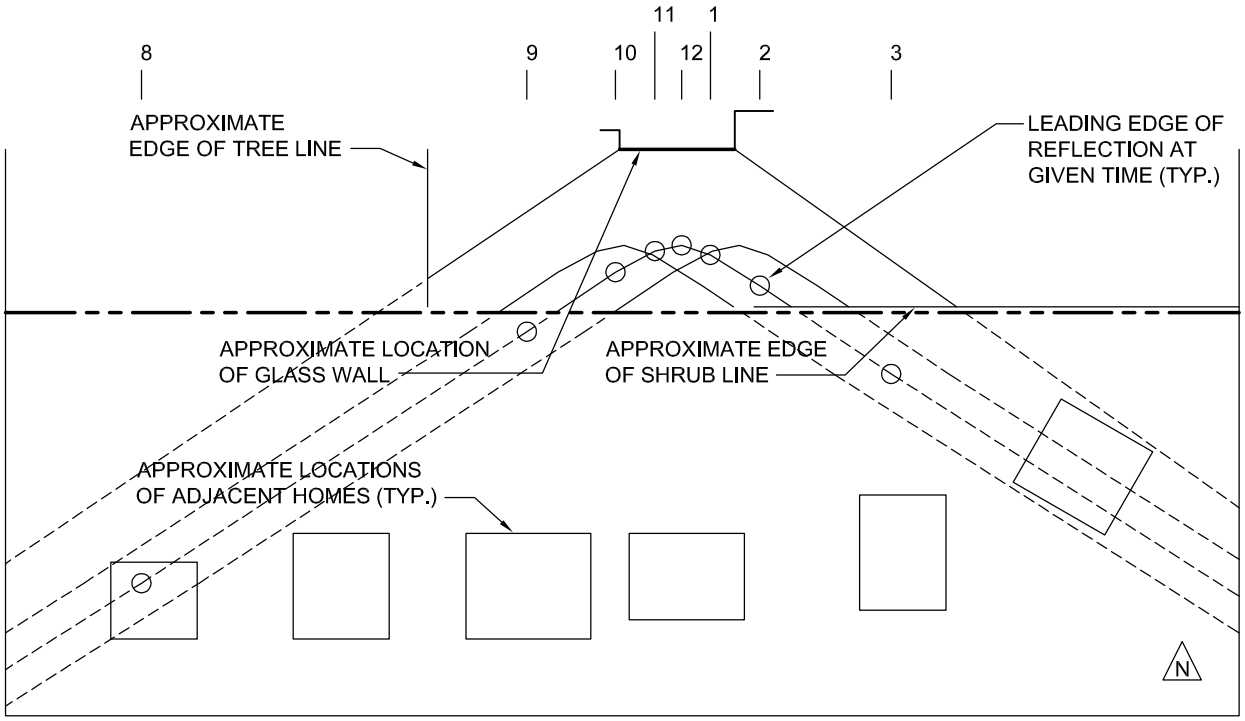
LINCOLNSHIRE - PRAIRIE VIEW SCHOOL DISTRICT 103
SPRAGUE SCHOOL ADDITION SUN STUDY
SEPTEMBER 21 (MARCH SIMILAR)



LINCOLNSHIRE - PRAIRIE VIEW SCHOOL DISTRICT 103
SPRAGUE SCHOOL ADDITION SUN STUDY
OCTOBER 21 (FEBRUARY SIMILAR)



LINCOLNSHIRE - PRAIRIE VIEW SCHOOL DISTRICT 103
SPRAGUE SCHOOL ADDITION SUN STUDY
NOVEMBER 21 (JANUARY SIMILAR)



LINCOLNSHIRE - PRAIRIE VIEW SCHOOL DISTRICT 103
SPRAGUE SCHOOL ADDITION SUN STUDY
DECEMBER 21

SOLARBAN SOLAR CONTROL LOW-E GLASS 70XL

PPG IdeaScapes™ Glass • Coatings • Paint

Aesthetic Description

Solarban 70XL glass is a revolutionary new Solar Control Low-E glass that brilliantly combines the clear appearance of transparent, color-neutral glass with an unprecedented combination of solar control and visible light transmittance.

With the introduction of ***Solarban*** 70XL Magnetic Sputter Vacuum Deposition (MSVD) coated glass, PPG has expanded the universe of design possibilities in two important ways. First, this product allows architects to incorporate vast areas of vision glass into a building's design without a requisite expansion of its cooling capabilities. Second, architects can now specify a clear aesthetic while achieving solar control performance that was previously attainable only through the use of tinted glass and a Solar Control Low-E coating in an insulating glass unit.

Performance Options

When coupled with conventional clear glass in a one-inch insulating glass unit, ***Solarban*** 70XL surpasses, by far, the performance of any other Solar Control Low-E glass on the market today.

- Solar Heat Gain Coefficient (SHGC): 0.27
- Visible Light Transmittance (VLT): 64%
- Light to Solar Gain (LSG) ratio: 2.37

For architects who desire a tinted glass aesthetic and enhanced solar control, ***Solarban*** 70XL glass can be combined in an insulating glass unit with any tinted glass from PPG, including the four tints from the ***Oceans of Color*** collection of ocean inspired tinted glasses, as well as any PPG performance or high-performance earth-toned tint.

Lower Upfront Equipment Costs. Long-Term Energy Savings.

While architects will appreciate ***Solarban*** 70XL sputter coated glass for its aesthetic qualities, their clients and building owners will truly value the energy-related cost savings it provides. According to a recent study by an independent energy and environmental research firm, ***Solarban*** 70XL glass has the potential to reduce annual energy costs by 5 percent or more in comparison with leading Solar Control Low-E coated glasses.

The greatest benefit of specifying this glass may be realized before the building is even occupied. Thanks to the unequalled solar control characteristics of ***Solarban*** 70XL glass, architects can specify smaller HVAC systems for buildings glazed with this product, potentially reducing the associated upfront capital investment by as much as $124,000.

As a result, architects and building owners who specify ***Solarban*** 70XL glass instead of other Solar Control Low-E coated glass products may have their investment repaid in a matter of months.

*The College of Business Administration at California State University's San Marcos campus features **Solarban** 70XL glass, a revolutionary Solar Control Low-E coated glass that offers an unprecedented combination of visible light transmittance and solar control characteristics in a clear, color-neutral glass.*
Architect: *A.C. Martin Partners, Los Angeles*
Glass Fabricator: *Oldcastle BuildingEnvelope™*
Glazing Contractor: *Division 8, Inc.*
CSUSM photo by *George Cagala*

Eight-Story Office Building, Window Wall

City	Annual Operating Expenses		Annual Savings	Total HVAC Equipment Cost		Immediate Equipment Savings	1st Year Savings
	SB60	SB70XL		SB60	SB70XL		
Atlanta	$622,492	$586,400	$36,092	$1,267,770	$1,146,495	$121,275	$157,367
Boston	$764,793	$729,696	$35,097	$1,251,705	$1,136,450	$115,255	$150,352
Chicago	$370,681	$352,779	$17,902	$1,252,297	$1,137,731	$114,566	$132,468
Denver	$397,799	$375,521	$22,278	$1,292,788	$1,168,451	$124,337	$146,615
Houston	$761,534	$718,618	$42,916	$1,253,879	$1,140,825	$113,054	$155,970
Los Angeles	$623,649	$582,454	$41,195	$1,263,556	$1,144,014	$119,542	$160,737
Mexico City	$707,060	$668,434	$38,626	$1,278,536	$1,154,115	$124,421	$163,047
Ottawa	$431,308	$412,595	$18,713	$1,247,862	$1,133,965	$113,897	$132,610
Philadelphia	$378,447	$365,425	$13,022	$1,249,329	$1,132,635	$116,694	$129,716
Phoenix	$394,492	$374,898	$19,594	$1,256,077	$1,140,972	$115,105	$134,699
St. Louis	$310,660	$294,417	$16,243	$1,274,889	$1,156,292	$118,597	$134,840
Seattle	$299,472	$284,629	$14,843	$1,237,408	$1,125,334	$112,074	$126,917

Total Glass Area: 56,640 ft^2

*The chart above is taken from a study conducted by an independent energy and environmental research firm. It shows that **Solarban** 70XL glass can dramatically reduce costs for cooling equipment while generating significant savings on annual cooling costs when compared with other industry-leading high-performance glasses such as **Solarban** 60 Solar Control Low-E Glass.*

Fabrication and Availability

Solarban 70XL glass is available through more than 60 locations of the PPG Certified Fabricator Network. PPG Certified Fabricators can meet tight construction deadlines and accelerate the delivery of replacement glass before, during and after construction. ***Solarban*** 70XL glass, manufactured utilizing the MSVD sputter-coating process, is available for annealed, heat strengthened and tempered applications.

More Information

PPG has published a paper detailing the results of a comprehensive energy simulation study of ***Solarban*** 70XL coated glass in 12 major North American cities. To order a copy of *Immediate and Long-Term Economic Advantages of Specifying **Solarban**® 70XL Solar Control Low E-Glass*, call 1-888-PPG-IDEA (774-4332), call your local PPG Architectural Glass representative or visit www.ppgideascapes.com.

Additional Resources

Solarban 70XL glass is just one of the ***EcoLogical Building Solutions***™ from PPG. For more information, or to obtain samples of this product, call 1-888-PPG-IDEA, or visit www.ppgideascapes.com. All PPG architectural glass is Cradle to Cradle Certified.CM

PPG *IdeaScapes*.™ Integrated products, people and services to inspire your design and color vision.

Solarban® 70XL Glass Performance — Commercial Insulating Glass Unit

Insulating Vision Unit Performance Comparisons 1-inch (25mm) units with 1/2-inch (13mm) airspace and two 1/4-inch (6mm) lites; interior lite clear unless otherwise noted

Glass Type	Transmittance			Reflectance		U-Value (Imperial)		European U-Value	Shading Coefficient	Solar Heat Gain Coefficient	Light to Solar Gain (LSG)
	Ultra-violet %	Visible %	Total Solar Energy %	Visible Light %	Total Solar Energy %	Winter Night-time	Summer Day-time				
Coated											
***SOLARBAN*® 70XL Solar Control Low-E Glass**											
SOLARBAN 70XL (2)* + Clear	6	64	25	12	52	0.28	0.26	1.50	0.32	0.27	2.37
SOLEXIA + SOLARBAN 70XL (3)*	3	56	20	11	13	0.28	0.26	1.50	0.37	0.32	1.74
ATLANTICA + SOLARBAN 70XL (3)*	2	49	17	10	8	0.28	0.26	1.50	0.32	0.28	1.74
CARIBIA + SOLARBAN 70XL (3)*	2	49	17	9	8	0.28	0.26	1.50	0.32	0.28	1.75
AZURIA + SOLARBAN 70XL (3)*	4	49	17	10	8	0.28	0.26	1.50	0.33	0.29	1.70
PACIFICA + SOLARBAN 70XL (3)*	2	31	12	6	7	0.28	0.26	1.50	0.26	0.22	1.38
SOLARBLUE + SOLARBAN 70XL (3)*	3	41	16	8	16	0.28	0.26	1.50	0.32	0.27	1.48
SOLARBRONZE + SOLARBAN 70XL (3)*	3	38	15	8	20	0.28	0.26	1.50	0.30	0.26	1.48
SOLARGRAY + SOLARBAN 70XL (3)*	2	32	13	7	15	0.28	0.26	1.50	0.27	0.24	1.34
OPTIGRAY 23 + *SOLARBAN* 70XL (3)*	1	17	7	5	7	0.28	0.26	1.50	0.19	0.16	1.04
GRAYLITE + SOLARBAN 70XL (3)*	1	10	5	5	11	0.28	0.26	1.50	0.16	0.14	0.71
VISTACOOL*™ and *SOLARCOOL*® with *SOLARBAN*® 70XL Solar Control Low-E (3)											
VISTACOOL (2) *AZURIA* + Low-E	4	38	14	21	12	0.28	0.26	1.50	0.27	0.24	1.59
VISTACOOL (2) *PACIFICA* + Low-E	1	24	9	11	9	0.28	0.26	1.50	0.22	0.19	1.24
VISTACOOL (2) *CARIBIA* + Low-E	2	38	13	20	11	0.28	0.26	1.50	0.27	0.23	1.65
VISTACOOL (2) *SOLARGRAY* + Low-E	2	25	10	11	17	0.28	0.26	1.50	0.23	0.20	1.24
SOLARCOOL (2) *SOLEXIA* + Low-E	1	22	8	24	16	0.28	0.26	1.50	0.20	0.17	1.28
SOLARCOOL (2) *CARIBIA* + Low-E	1	19	6	19	10	0.28	0.26	1.50	0.18	0.15	1.27
SOLARCOOL (2) *AZURIA* + Low-E	1	19	7	19	10	0.28	0.26	1.50	0.18	0.15	1.27
SOLARCOOL (2) *PACIFICA* + Low-E	1	12	4	10	8	0.28	0.26	1.50	0.15	0.13	0.89
SOLARCOOL (2) *SOLARBLUE* + Low-E	1	16	6	14	16	0.28	0.26	1.50	0.18	0.15	1.03
SOLARCOOL (2) *SOLARBRONZE* + Low-E	1	15	6	14	19	0.28	0.26	1.50	0.17	0.15	1.01
SOLARCOOL (2) *SOLARGRAY* + Low-E	1	13	5	11	15	0.28	0.26	1.50	0.16	0.14	0.89
SOLARCOOL (2) *GRAYLITE* + Low-E	<1	3	1	5	5	0.28	0.26	1.50	0.11	0.09	0.27

Solarban* 70XL for annealed applications is applied to ***Starphire* glass, heat treated applications will require either clear or ***Starphire*** glass depending on manufacturing process.

All performance data calculated using LBNL Window 5.2 software, except European U-Value, which is calculated using WinDat version 3.0.1 software. For detailed information on the methodologies used to calculate the aesthetic and performance values in this table, please visit www.ppgideascapes.com or request our Architectural Glass Catalog.

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PPG Industries, Inc. Glass Business & Discovery Center 400 Guys Run Road Cheswick, PA 15024 1-888-PPG-IDEA
www.ppgideascapes.com

Wight & Company
wightco.com
2500 North Frontage Road
Darien, IL 60561
P 630.969.7000
F 630.969.7979

January 7, 2016

Mr. Stephen McNellis
Community & Economic Development Director
Village of Lincolnshire
One Olde Half Day Road
Lincolnshire, IL 60069

LINCOLNSHIRE - PRAIRIE VIEW SCHOOL DISTRICT 103
HALF DAY SCHOOL & SPRAGUE ELEMENTARY SCHOOL ADDITIONS
VILLAGE OF LINCOLNSHIRE STANDARDS RESPONSES
WIGHT & COMPANY PROJECT #02-5467-06

Dear Mr. McNellis,

Pursuant to the Village of Lincolnshire Standards, as identified in Section 6-14-11.D.1-6 of the Village Code, we offer the following responses:

Half Day School:

1. The special use will not be injurious to the use and enjoyment of other property in the immediate vicinity of the subject premises for the purposes already permitted, nor substantially diminish and impair property values within the neighborhood in which it is to be located.

Response: Other properties in the immediate vicinity of Half Day School will continue to be able to be used in the same manner that they currently are. Half Day School has been a longstanding fixture of the neighborhood, and the proposed addition will not substantially alter the function of the school or fundamentally change the way the building or site are used.

2. The establishment of the special use will not impede the normal and orderly development and improvement of the surrounding property for the uses permitted in the district.

Response: Half Day School does not currently impede the ability of surrounding properties to be developed and improved as permitted by the Village. None of the work associated with the proposed addition will substantially alter the relationship of the school to surrounding properties, and as such will continue to allow those properties to be developed and improved as permitted by the Village.

3. Adequate utilities, access roads, drainage and/or necessary facilities have been or will be provided.

Response: The utilities, access roads, drainage, and necessary facilities for Half Day School are currently existing and will satisfy the demands of the proposed addition. The detention basin will be expanded to both bring the existing basin into compliance with current Lake County SMC standards and to meet the additional detention needs of the proposed addition.

4. Adequate measures have been or will be taken to provide ingress and egress so designed as to minimize traffic congestion in the public streets.

Response: The existing Half Day School has employed strategies to minimize the impact of school operations on traffic congestion in the public streets, including queuing parents within the parking lot during afternoon pick-up and leveraging relationships with adjacent properties, such as the Library, for event parking. The work associated with the addition to Half Day School includes an expansion of the queuing capability so as to limit the impact of that work on traffic congestion in the public streets.

5. The proposed special use in not contrary to the objectives of the Official Comprehensive Plan of the Village as amended.

Response: The Comprehensive Plan identifies the current and future land use of the property as 'Public & Institutional'; and the existing school and proposed addition are consistent with the description of permitted uses in that land use classification. The existing Half Day School has been a longstanding part of the character of the community, and the proposed addition is intended to maintain that character. The Comprehensive Plan identifies the School District as one of several 'great assets' to the community; and the work associated with the proposed addition, which will improve the ability of the school to better serve the community, is anticipated to continue this trend.

6. The special use shall, in all other respects, conform to the applicable regulations of the district in which it is located, except as such regulations may, in each instance, be varied pursuant to Section 6-14-9 of this Chapter.

Response: The existing school does have existing non-conforming conditions that the School District is respectfully requesting be included as exceptions to the Special Use. None of the work associated with the addition to Half Day School is intended to create new non-conforming conditions.

Sprague Elementary School:

1. The special use will not be injurious to the use and enjoyment of other property in the immediate vicinity of the subject premises for the purposes already permitted, nor substantially diminish and impair property values within the neighborhood in which it is to be located.

Response: Other properties in the immediate vicinity of Laura Sprague Elementary School will continue to be able to be used in the same manner that they currently are. Laura Sprague Elementary School has been a longstanding fixture of the neighborhood, and the proposed addition will not substantially alter the function of the school or fundamentally change the way the building or site are used.

2. The establishment of the special use will not impede the normal and orderly development and improvement of the surrounding property for the uses permitted in the district.

Response: Laura Sprague Elementary School does not currently impede the ability of surrounding properties to be developed and improved as permitted by the Village. None of the work associated with the proposed addition will substantially alter the relationship of the school to surrounding properties, and as such will continue to allow those properties to be developed and improved as permitted by the Village.

3. Adequate utilities, access roads, drainage and/or necessary facilities have been or will be provided.

Response: The utilities, access roads, drainage, and necessary facilities for Laura Sprague Elementary School are currently existing and will satisfy the demands of the proposed addition. The existing and proposed improvements at the school are below the Lake County SMC threshold requiring storm water detention.

4. Adequate measures have been or will be taken to provide ingress and egress so designed as to minimize traffic congestion in the public streets.

Response: The existing Laura Sprague Elementary School has existed and operated successfully within the surrounding neighborhood for many years. No new access points are being proposed to any public or private roadways, and the work associated with the proposed addition is not anticipated to substantially alter the impact that the school has on the surrounding neighborhood with regard to traffic congestion in the public streets.

5. The proposed special use in not contrary to the objectives of the Official Comprehensive Plan of the Village as amended.

Response: The Comprehensive Plan identifies the current and future land use of the property as 'Public & Institutional'; and the existing school and proposed addition are consistent with the description of permitted uses in that land use classification. The existing Laura Sprague Elementary School has been a longstanding part of the character of the community, and the proposed addition is intended to maintain that character. The Comprehensive Plan identifies the School District as one of several 'great assets' to the community; and the work associated with the proposed addition, which will improve the ability of the school to better serve the community, is anticipated to continue this trend.

6. The special use shall, in all other respects, conform to the applicable regulations of the district in which it is located, except as such regulations may, in each instance, be varied pursuant to Section 6-14-9 of this Chapter.

Response: The existing school does have existing non-conforming conditions that the School District is respectfully requesting be included as exceptions to the Special Use. None of the work associated with the addition to Laura Sprague Elementary School is intended to create new non-conforming conditions.

Respectfully submitted,

WIGHT & COMPANY

David Gassen
Senior Project Architect

Cc: Dave Gassen – Wight & Company
Leanne Meyer-Smith – Wight & Company
Scott Warren – Lincolnshire Prairie View School District 103
Dan Stanley – Lincolnshire Prairie View School District 103
Scott Gaunky – Lincolnshire Prairie View School District 103