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

AGENDA
REGULAR ARCHITECTURAL REVIEW BOARD MEETING
Public Meeting Room, Village Hall
Tuesday, October 18, 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 September 27, 2016 Architectural Review Board Meeting Minutes.

3.0 ITEMS OF GENERAL BUSINESS

3.1 Continued Consideration and Discussion of Site Design, Building Elevations, Signs, Landscaping and Lighting for a Proposed Children's Daycare Center, 250 Barclay Blvd (Viking Development LLC/The Gardner School).

3.2 Approval of a New Outdoor Patio, Storefront Design, and Wall Signs for a Proposed Marigold Maison Indian Cuisine Restaurant, 900 Milwaukee Ave (Marigold Maison Indian Cuisine Restaurant).

3.3 Approval of a Replacement Multi-Tenant Ground Sign for CityPark Center, Southeast Corner of 235 Parkway Dr (Lettuce Entertain You Enterprises).

4.0 UNFINISHED BUSINESS
5.0 NEW BUSINESS
6.0 CITIZEN COMMENTS
7.0 ADJOURNMENT

The Architectural Review Board will not proceed past 10:30 p.m. unless a motion is made and approved by a majority of the Architectural Review 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 Architectural Review Board Meeting.

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UNAPPROVED Minutes of the **RESCHEDULED ARCHITECTURAL REVIEW BOARD** held on Tuesday, September 27, 2016, in the Public Meeting Room of the Village Hall, One Olde Half Day Road, Lincolnshire, IL.

PRESENT: Chairman Grover, Members Kennerley, Gulatee, Baskin, Orzeske, Jensen, and Alternate Barranco

ABSENT: Trustee-Liaison Hancock

ALSO PRESENT: Tonya Zozulya, Economic Development Coordinator and Adam Letendre, Assistant Village Manager/Director of Community and Economic Development

CALL TO ORDER

1.0 **ROLL CALL**

The roll was called by Linda Jones, Secretary, and **Chairman Grover** declared a quorum to be present.

2.0 APPROVAL OF MINUTES

2.1 Approval of the August 16, 2016, Minutes of the regularly scheduled Architectural Review Board.

Member Baskin moved to approve the minutes as written and **Member Kennerley** seconded the motion to approve the August 16, 2016 Architectural Review Board Minutes. The motion passed unanimously by voice vote.

3.0 ITEMS OF GENERAL BUSINESS

3.1 Consideration and Discussion of Proposed Development Plans for Culver's Restaurant and Shopping Center Ground Signs for the Lincolnshire Marketplace Center, Northeast Corner of Milwaukee Ave and Rte 22 (Lincolnshire Marketplace LLC).

Tonya Zozulya, Economic Development Coordinator, noted last month's design workshop was very productive and generated several comments for the petitioner's consideration which are listed in Staff's memorandum dated September 27, 2016, and made part of the presentation packet. The Petitioner is present to explain the changes that have been made and Staff is in support of this project.

Mike Mallon, Sr. Vice President with Draper and Kramer, contract purchaser of the Lincolnshire Marketplace LLC, noted the discussion will center around the proposed Culver's project, also known as Phase 1 on the undeveloped property located at the northeast corner of Milwaukee Avenue and Half Day Road. The Fresh Market grocery store is the only retail business on this site thus far. He

stated his team has addressed most of the comments from the Architectural Review Board and they look forward to a positive recommendation to the Village Board. **Mr. Mallon** introduced the members of the design team. Further, he displayed a color rendering showing the proposed Culver's in the background and how it will fit into the entire Lincolnshire MarketPlace. It depicts the spine road which comes from Half Day Road through the site leading out to Milwaukee Avenue with the additional site features of brick pavers, a fountain as a focal point with a gathering place to tie together Phase 1 and Phase 2 and the existing Fresh Market store. Additional landscaping has also been added. **Mr. Mallon** provided a brief overview of the revisions which consist of building elevations and enhancing the outdoor patio area; the relocation of the Culver's ground sign and the proposed shopping center sign, and a revision to the ground sign; the addition of a decorative paver element and landscaping in areas of the signs, outdoor patio, the entry drive and along the pedestrian path.

Katie Lambert, Sr. Associate with OKW Architects, displayed the revised site plan and noted the addition of a large quantity of evergreens to the north side of the spine road which adds seasonal interest. Additional landscaping was also part of the monument signage relocation, as well as the inclusion of ornamental pavers on the pedestrian path to connect Culver's to the Fresh Market. The outdoor seating area remains in the same location, however, the addition of the pergola will serve to enhance it as a destination and serve as a visual buffer to the entire experience. With regard to the shopping center identification sign, there was concern from the design workshop meeting that the lettering for Lincolnshire Market Place would not be very visible. The sign has been repositioned on top of the brick and should read better with the use of pin-mounted metal letters held off the sign causing a slight shadowing effect. There were a couple of changes to the shopping center monument sign which were determined in discussions with Staff. Thus, a slight increase to make the width of the sign 12 feet and the addition of a fifth tenant panel. The tenant panels will be internally illuminated with only a white light, while the gooseneck fixtures at the top of the sign will illuminate the Lincolnshire MarketPlace lettering.

Wendy Martin, Architect, with Ollmann Ernest Martin, displayed the revised building elevations which now give a more upscale appearance and noted the addition of gables with brackets, as a direct reflection seen on The Fresh Market, and the deepened tower element. The gooseneck fixtures have been relocated to highlight the piers rather than the awnings. The hardieplank siding, brick and stone materials remain the same as previously proposed. In referring to the outdoor patio area, **Ms. Martin** pointed out the addition of the pergola element serves to tie together the pedestrian way on site and helps to define the outside area. She also noted the cedar wood post supports of the pergola and wood panel system to lighten the outdoor dining area. The patio furnishings have also been upgraded

Nick Mele, with Priority Sign, addressed the Culver's signage revisions based on comments from last month's design workshop meeting and displayed the site plan with the all-encompassing exterior signage which remains the same with the exception of the monument sign relocation. The exterior Culver's signs on the

building elevations also remain the same, but appear to better fit the wall, which is due to the redesign of the wall element. The burger blade sign in the drive-thru has been changed from the standard aluminum material to match the monument sign and the cement board finish of the building, as well. With regard to Culver's monument sign, comments were directed towards the electronic message center (EMC) with an 8" projection and the 5" projection of Culver sign element off the face of the sign. Staff comments asked if it would be possible to fully recess the unit to be flush with the rest of the sign cabinet. **Mr. Mele** noted a compromised 5" proposed projection uniform for both sign elements. He explained the reason for a projection provides easier access for future service and maintenance. Albeit a flush mount can be done, but access to the sign is more labor intensive. Another concern regarding the electronic message board related to the use of only one message display for the "flavor of the day". **Mr. Mele** stated that the franchise owner, Kevin Weasler, would like the opportunity to highlight charitable or community events in addition to the "flavor of the day".

Mr. Mallon thanked his team for their hard work during the past month responding to the Board's comments for the presentation of these revisions. He referenced Staff's first two recommendations included in the presentation packet and noted his agreement with the first two conditions relative to the adjustment of the final ground sign location to avoid utility line and easement conflicts and the light levels for all ground signs shall not exceed 0.5 foot candles as measured at the property line. Further, he noted the electronic message board sign is crucial to this development. After several conversations with Culver's to an alternative solution, the Petitioner wants to move forward with this sign element. There are three different sign options proposed and Option S1B is their preference as depicted in the petitioner's presentation packet. They are also agreeable to other conditions as noted by Staff.

The Petitioner having completed their presentation, **Chairman Grover** offered the opportunity for the Boards' comments and suggested focusing on one topic at a time for discussion. **Member Gulatee** noted he did not understand the architecture and was not impressed, however, since he came with the spirit of compromise, he questioned the color of the stone in the renderings. **Ms. Martin** displayed a sample board of the color of the stone with which **Member Gulatee** was satisfied. He then suggested thought be given to back lighting the awnings for added interest to the elevations. Further, **Member Gulatee** noted he cannot offer any comments on the architecture, as it is not familiar architecture, he is satisfied in going along with the Boards' decision. **Member Baskin** appreciated the architect's efforts based on the feedback from the design workshop meeting and sees some elements from The Fresh Market building incorporated in the proposed Culver's building. Albeit the revisions are better than the originally proposed building, he noted the architecture is branded and he has no opinion either way, thus he would approve the revisions. He did express concern that the hip roof pitch is not as pronounced as The Fresh Market, to which **Ms. Martin** stated proportionally it is in keeping with the size of the Culver's building. **Member Jensen** noted his absence at the last meeting, however, he expressed his satisfaction in seeing the improvements which bring it to a nice looking building. **Member Kennerley** noted, in terms of the outdoor seating area, it

becomes more of a focal point to draw you in and it is a really nice area and more inviting. She expressed her satisfaction with the building, as the ideas and upgrades really make a significant difference along with the slight adjustments which bring it more in line with the elements within Lincolnshire. **Chairman Grover** added his satisfaction with the concept and overall the building looks good.

Chairman Grover offered comments with regard to the landscaping and the pergola. **Member Baskin** questioned the combination of the pergola with umbrellas shading tables and feels it does not look appropriate. **Ms. Martin** noted the intention was to tie in the blue color. **Member Jensen** inquired if blue could be incorporated into some kind of a cover, to which **Ms. Martin** said it could be done. **Member Gulatee** suggested using engineered materials and nature, such as climbing plants, to soften the elements. **Member Kennerley** warned about the presence of bees if vines, etc. were to be incorporated. **Chairman Grover** questioned if the top of pergola had any lattice work forming a roof, to which **Ms. Martin** noted the design is such that it only gives the appearance, as there is nothing overhead and thus, the idea of umbrellas. She also cautioned anything above the tables in that fashion, may encourage bird nests and/or droppings. **Chairman Grover** noted his struggle with the pergola and umbrellas, and likes the visual effects of the pergola. **Member Kennerley** questioned if the pergola line is the same height as the umbrellas with the intention to hide the umbrellas or are there two different heights to give a staggered appearance. **Ms. Martin** stated they are not trying to hide the umbrellas, instead trying to pull in the pergola element opportunity and marry it with the umbrellas. **Member Kennerley** added the pergola offers the enclosure feeling yet being outside and it is an important element to the site. She expressed concern for the possibility to make it more uniform, using the blue color for the top trim of the pergola and making the pergola the same height as the umbrellas to give the appearance of one line utilizing both elements. After much discussion ensued with regard to the pergola and the umbrellas' use, **Mr. Mallon** suggested working with Staff to determine the best design to satisfy the Board's concerns and **Chairman Grover** noted that it would be his recommendation, as well. He then requested comments with regard to the landscaping. **Member Kennerley** suggested the use of low maintenance landscaping such as boxwoods and evergreens around the building and outdoor seating area in order to provide green throughout the seasons in lieu of ornamental grasses, to which the Petitioner concurred.

Chairman Grover eluded to the signage, beginning with the wall signs, to which **Member Gulatee** stated he had no issues with the wall signs. The shopping center monument sign was met favorably. **Mr. Mallon** stated the gooseneck lights at the top are meant to highlight the Lincolnshire MarketPlace lettering and the tenant sign panels are internally illuminated. The shopping center Fresh Market identification ground sign was next to be discussed with only one concern from **Chairman Grover** as to the purpose of the arrow. **Ms. Lambert** noted its purpose is for wayfinding for the entrance to the center north on Milwaukee Avenue. **Member Baskin** added that the monument signs look elegant and the sign package is fine. **Member Kennerley** questioned the correct script for

Lincolnshire Market Place or Lincolnshire MarketPlace? **Mr. Mallon** noted his preference for one word with a capitol "P" ie. MarketPlace.

Chairman Grover opened the discussion for the Culver's monument sign and stated he was not in favor of the electronic sign and he has no issues with the remainder of the sign. **Member Kennerley** agreed with **Chairman Grover** and noted the use of stone on the base, but is not in favor of the electronic sign. **Member Baskin** noted he is not bothered by the electronic sign, as it is the digital age, however he prefers it to be flush with the face of the sign. **Member Gulatee** suggested the sign be presented subtly to set an example for future signs, as it is the digital age and go with the times. **Member Orzeske** questioned the accuracy of the graphic as to its high definition. **Mr. Mele** responded they are proposing a static message only sign that is standard in the industry of restaurants, hospitality, retail, etc. **Chairman Grover** reminded the Board that the three EMC signs within the Village are part of a PUD or grandfathered and he suggested having an ordinance addressing this type of sign for individual retail in place before allowing any changes. **Member Gulatee** noted a potential for a variance, to which **Chairman Grover** expressed his concern for a floodgate of sign variances from individual retail/commercial businesses and prefers to have the parameters in place. **Mr. Mallon** stated that the electronic message board is a key component of the lease in moving forward with Culver's. Albeit the Board has issues with the message center, **Mr. Mallon** requested to have the Board consider moving the project forward from a timing perspective, as there are tight time constraints under the proposed lease with Culver's, especially if they were anticipating beginning construction by the end of the year. He would appreciate the Board's consideration in continuing the request for a couple of months in order to consider the use of message centers throughout the community. **Mr. Mallon** reiterated his request for the ARB to forward a positive recommendation to the Village Board, especially since they will be on the October 10th agenda for a Public Hearing regarding a major amendment for modifications to the Lincolnshire MarketPlace PUD. **Economic Development Coordinator Zozulya** noted the Village Board would have to direct Staff, with the ARB's support, in order to change the Village Code to pursue a text amendment to allow electronic message board signs with certain conditions. She also noted Staff has received a concern from a Lincolnshire resident expressing opposition to the electronic message board for aesthetic reasons and it is not in line with Lincolnshire's character.

Chairman Grover asked if there were any other issues from the presentation packet yet to be addressed, to which **Member Gulatee** cautioned against the possibility of snow drifts blocking venting on the rooftop units. This blockage could occur due to the height of the parapet wall and dependent upon the prevailing winds at the time of a snow event. He suggested openings be made at opposite ends to offer a flow of air/wind to address this potential issue. He further expressed concern for any foul odors emitting from the trash enclosure due to its proximity to the entrance of the drive-thru lane. **Kevin Weasler**, franchisee/owner of the proposed Culver's, stated trash is picked up several times a week based on the volume of business and thus far, at his Buffalo Grove restaurant, any occurrence of odors has been minimal. With regard to the

electronic sign, **Chairman Grover** requested confirmation of the text, to which **Mr. Weasler** stated it would be the flavor of the day and community/charitable events.

There being no further discussion from the Petitioner or the ARB, Chairman Grover suggested consideration be given to separating the motions and keeping the electronic sign as a separate motion, to which the ARB concurred.

Member Baskin moved and Member Jensen seconded a motion from the Architectural Review Board to recommend to the Village Board for their approval of a proposed site design, building elevations, landscaping and lighting for a proposed development of Culver's restaurant with a drive-through/outdoor patio and shopping center ground signs for the Lincolnshire Marketplace development, as presented in the packet submitted by Michael Mallon, Draper & Kramer, dated September 12, 2016, date stamped received September 12, 2016, and as depicted in the material/color sample board provided at the meeting, subject to the Staff recommendations 1 and 2, and further subject to the following:

1. *Replace the ornamental grasses surrounding the building and pergola with boxwood plantings;*
2. *No umbrellas allowed inside the pergola.*

The motion passed unanimously by voice vote.

Member Baskin moved and Member Orzeske seconded a motion for the Architectural Review Board to recommend to the Village Board for their approval of a proposed Culver's signage package for the Lincolnshire Marketplace development, as presented in the packet submitted by Michael Mallon, Draper & Kramer, dated September 12, 2016, date stamped received September 12, 2016, subject to the Staff recommendations, and further subject to the following conditions:

1. *The final ground sign location shall be adjusted with the Village Engineer's approval to avoid utility line and easement conflicts.*
2. *The light levels for all ground signs shall not exceed 0.5 foot candles as measured at the property line.*
3. *Electronic message board sign Option S1C, as depicted in the petitioner's presentation packet, shall be approved, subject to the following:*

    a. *The text of the electronic message board sign shall be static at all times.*
    b. *No scrolling of the text shall be permitted.*
    c. *The electronic message board sign shall advertise Culver's flavor of the day and communit/charitable events only via text. No other information or images is permitted.*
    d. No flashing, scrolling, blinking, animation, or similar effects shall be permitted.
    e. The brightness level shall be limited to 5,000 nits during the day and 1,000 nits at night. The electronic board shall be

equipped with a light sensor to automatically adjust brightness based on ambient light levels.

f. The electronic display shall be turned off each night after the restaurant closing.

The motion passed with a roll call vote as follows:
2 Nays (Grover & Kennerley)
4 Ayes (Gulatee, Baskin, Orzeske, & Jensen)
with Alternate Barranco expressing consent.

3.2 Consideration and Discussion of a New Port Cochere, Windows, Landscaping and Wall Signs for the Marriott Resort, 10 Marriott Drive (The Gettys Group).

Tonya Zozulya, Economic Development Coordinator, noted this is a two-part request. The first part is for the approval of a new port cochere near the hotel entrance, a new window system for both of the guest rooms and the Kings Wharf Restaurant, as well as new landscaping to enhance the hotel entrance adjacent to the new port cochere. The second part is consideration of an amendment to the Marriott Resort Master Sign Plan for two new code-compliant halo-lit identification wall signs, bearing a red Marriott logo, to be integrated into the new port cochere pylon design near the front hotel entrance. She explained the reason for the split request is because the ARB does have complete review and approval for the new port cochere, windows, and landscaping; however, the wall signs will require recommendation and final approval by the Village Board. At this time, **Economic Development Coordinator Zozulya** invited the Petitioner, The Gettys Group, to give their presentation.

Eric Bates, General Manager, of the Marriott Lincolnshire Resort as of January 28, 2016, noted that a $22 million renovation is planned for the facility, touching almost every area of it to be done in phases. It is most important to signify to the public that big changes will be made by focusing on the exterior with the new port cochere entrance, windows, and landscaping. **Mr. Bates** introduced the design team of Gayle Soberg and Justin Harris with Stanec Architecture, Jonathan Grzywa, Civil Engineer, with Woolpert Engieering, and Jason Mudd, with The Gettys Group, who is leading the design for the renovations.

Gayle Soberg, with Stanec Archiecture, provided a brief overview of the work scope plan showing the port cochere entrance and the facades of the guest rooms and restaurant. The resort was built in 1974 and the existing entrance canopy has a large sloping roof line which darkens the entrance to the hotel and does not lend itself well to proclaiming and welcoming guests to the entrance. **Ms. Soberg** presented the rendering of the proposed new port cochere and explained that the existing roof will be cut back and steel and heavy timber framed trellis-like construction will be the port cochere. It will be solid in the middle with exposed timber decking, and with open skylight glazing on the sides, all of which will be flanked by new signage pylons in a light colored limestone. The design shape of the port cochere is uplifting and signifies open arms to invite and welcome guests to the hotel.

Justin Harris, with Stanec Architecture, noted the design elements and materials of the port cochere, such as the timber structure which echoes the natural surroundings of the golf course grounds. As he displayed the construction renderings of the port cochere, he explained the materials and lighting being used along with its purpose. The signage pylon construction is stone veneer over metal stud and gypsum framing and a cantilevered teakwood slat bench serves as a seating area. The signage itself is LED halo effect backlit aluminum reverse channel lettering.

Jon Grzywa, Civil Engineer with Woolpert, displayed the site plan for the port cochere area and noted brick pavers will be installed at the entrance and the entry will be ADA compliant. He pointed out the new landscaping which includes two new trees providing symmetry as you approach from the parking lot, along with the various types and species of plantings to be used.

Moving on to the second part of the presentation, **Ms.Soberg** eluded to the existing restaurant façade depicting the 3' deep brick piers with the windows on the inside face of the piers and setback deeply, which does not allow enough natural light causing the interior of the restaurant to be very dark. In order to brighten the space, some of the piers will be removed and/or cut back to be able to install the new window system at the front of those piers. **Mr. Harris** displayed the restaurant elevation of both the existing and proposed, and noted by removing some of the piers, the window expanse will widen the bays of the windows letting more light into the space, and at the same time, provide a rhythm uniformity. Also, two folding glass window walls will be introduced in order to allow the guests to dine "al fresco" weather permitting. In addition, the façade of hotel guests' rooms will get a face lift by eliminating the dark colored inset and sliding glass door and replacing it with a new anodized aluminum window system with insulating glazing. Only the first floor guest room will have a glass sliding door to exit the room or use the outdoor slab on which to relax. In conclusion, **Mr. Harris** provided a material & color sample board for review.

Chairman Grover offered the opportunity to the ARB for any comments with regard to the port cochere. **Member Orzeske** expressed concern for the two different coloration levels of lighting emitting from the wall sign and the entrance canopy, albeit the materials are not the same. Also, he noted the need for more lighting at the port cochere and suggested up-lighting the two trees, to which **Ms. Soberg** responded favorably to do so. **Member Kennerley** agreed to add more lighting, as it becomes a safety issue, as well. Again, **Ms. Soberg** concurred with the importance of more landscape lighting, and she will research the possibility of matching the levels of lighting at the port cochere. **Member Orzeske** expressed his satisfaction with the elegant design. **Member Baskin** stated the design seems to be okay, and questioned tying in more brick to the port cochere. Discussion ensued with the determination that brick is prevalent at the exterior of the entrance, as well as the lobby has brick massing. **Chairman Grover** likes the freshness of the proposed port cochere and appears much more inviting.

Member Orzeske suggested the use of an opaque type of glazing to hide any dirt collecting, to which **Mr. Harris** will investigate the option. **Member Kennerley** stated she likes the way the new roof line looks and the element of the lighter color integrates within the building. She also questioned the purpose of the sign wall as you approach the entrance and suggested the possibility of adding water running down the sign to reduce the scale. She further suggested introducing more tree choices that can offer four-season color. **Mr. Harris** explained the symmetry of the wall sign panels. **Member Gulatee** noted his satisfaction for the design and suggested thought be given to creating a sense of arrival and the orientation of natural lighting by adding skylight glazing in the middle of the port cochere. He offered a circular drive as another option, along with more landscaping**. Member Jensen** is satisfied with the design and inquired if the addition of a fountain with seating would be feasible. In conclusion, both **Ms. Soberg** and **Mr. Harris** will take into consideration the members comments to enhance the proposed design.

Chairman Grover questioned if there were any comments regarding the proposed wall sign, to which there was a consensus to accept the wall sign design. There being no further comments or questions, **Chairman Grover** requested motions for the two separate requests.

Member Baskin moved and Member Gulatee seconded a motion at the Architectural Review Board meeting held on September 27, 2016, to approve a new port cochere, window design and landscaping improvements for the Marriott Resort, located at 10 Marriott Drive, as depicted in a presentation packet prepared by The Gettys Group, date stamp received September 12, 2016, and as depicted in the material/color sample board provided at the meeting, subject to recommendations contained in the Staff Memorandum, and further subject to the following:

1. *Further consideration and design of the canopy skylight, and*
2. *The addition of uplighting the trees and the walkway lighting within the landscaping.*

The motion passed unanimously by voice vote.

Member Baskin moved and Member Gulatee second a motion for the Architectural Review Board to recommend approval to the Village Board of an amendment to the Marriott Resort Master Sign Plan regarding the addition of two new Marriott identification wall signs for the Marriott Resort, located at 10 Marriott Drive, as depicted in a presentation packet prepared by The Gettys Group, date stamp received September 12, 2016, and as depicted in the material/color sample board provided at the meeting, subject to the petitioner considering unifying the light color between the proposed wall signs and the hotel entrance and considering whether the western wall sign should be removed from the proposal.

The motion passed unanimously by voice vote.

4.0 UNFINISHED BUSINESS (None)

5.0 NEW BUSINESS

Economic Development Coordinator Zozulya noted that Staff would like to announce that Linda Jones has submitted her letter of retirement as of Sept 28th. She began working for the Village on Sept. 7, 1999 and served the last 17 years both faithfully and dutifully serving as Administrative Assistant for the Community & Economic Development Department and Secretary to both the Zoning Board and the Architectural Review Board. There is a party being planned at the end of October and we will keep the Board informed as to the exact date and time. During her employment with the Village, Linda has seen the development of CityPark, Lincolnshire Commons, Sedgebrook, and various other established businesses and subdivisions. On behalf of the ARB, **Chairman Grover** thanked Linda for her service and extended his appreciation of her diligence in working with the Board. Linda expressed her appreciation for the camaraderie and friendships made during her employment and will miss her daytime family.

6.0 CITIZEN COMMENTS (None)

7.0 ADJOURNMENT

There being no further business, **Chairman Grover** adjourned the meeting at 9:30 p.m.

Respectfully Submitted,
Linda Jones,
Administrative Assistant, Community & Economic Development Dept.

Village of Lincolnshire

Agenda Item
3.1 ARB

REQUEST FOR BOARD ACTION
Architectural Review Board
October 18, 2016

Subject:	The Gardner School, 250 Barclay Blvd.
Action Requested:	Continued Consideration and Discussion of Site Design, Building Elevations, Signs, Landscaping and Lighting for Proposed Children's Daycare Center
Petitioner:	The Gardner School/Viking Development, LLC
Originated By/Contact:	Tonya Zozulya, Economic Development Coordinator Department of Community & Economic Development
Advisory Board Review:	Architectural Review Board

Background:

- At the August 16, 2016 meeting, the ARB considered the development proposal for the Gardner School at 250 Barclay Boulevard, in the Lincolnshire Corporate Center. At the conclusion of the meeting, the ARB requested the petitioner return to the ARB with several building design options for additional discussion after taking into consideration the following feedback:

    1. Propose a different building scale to better relate to children.
    2. Simplify the building elevations to eliminate conflicting architectural styles.
    3. Reflect the Gardner School brand in the building architecture.
    4. Eliminate retail-centric design features.
    5. Make the building look more like a school.
    6. Adjust the height of light poles to better relate to children's scale; consider installing bollard lights.
    7. Ensure sufficient lighting throughout the year.
    8. Install trees adjacent to the building for enhanced scale and rhythm.
    9. Revise the truck turning radius near the trash enclosure.

- Attached meeting minutes provide an in-depth overview of additional comments expressed by ARB members.

Staff Comments:

- The attached petitioner's cover letter details the revisions made per ARB direction.
- Staff finds the revised packet reflects the main changes requested by the ARB. Staff requests the ARB determine whether additional enhancements are necessary.

Recommendation:

Staff recommends forwarding a favorable recommendation to the Village Board of the proposed development plans.

Motion:

The Architectural Review Board moves to recommend to the Village Board for their approval of a proposed site design, building elevations, signs, landscaping and lighting for a proposed development of a children's daycare center for The Gardner School, as presented in the packet submitted by Norr and Woolpert, date stamped received September 12, 2016, and as depicted

in the material/color sample board provided at the meeting, subject to the Staff recommendations, and further subject to. . . . .

{Insert any additional conditions or modification desired by the Architectural Review Board}

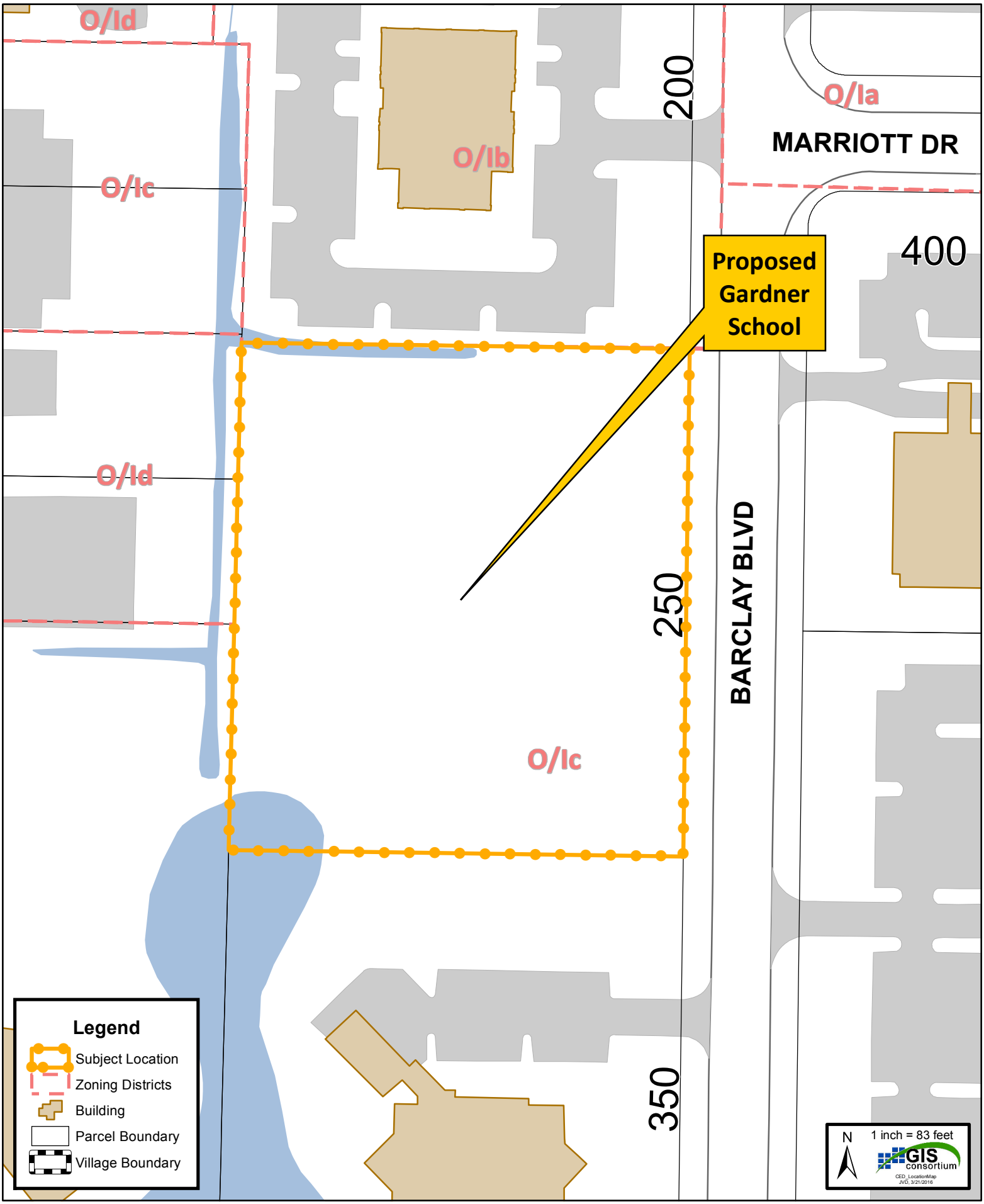
Reports and Documents Attached:

- Location map, prepared by MGP GIS Consortium.
- Presentation packet, submitted by Norr and Woolpert, date stamped received September 12, 2016.
- August 16, 2016 staff memo to the ARB and ARB meeting minutes.

Meeting History	
Village Board Preliminary Evaluation (COW):	June 13, 2016
Zoning Board Meeting	August 9, 2016
Architectural Review Board (initial discussion)	August 16, 2016
Architectural Review Board (current)	October 18, 2016

Village of Lincolnshire
Community & Economic Development

Proposed Gardner School (Daycare)
250 Barclay Blvd



NORR
ARCHITECTS ENGINEERS PLANNERS

September 20, 2016

Chairman Wes Grover and
The Village of Lincolnshire Architectural Review Board
One Olde Half Day Road
Lincolnshire, IL 60069

RE: The proposed Gardner School at 250 Barclay Blvd

Dear Chairman Wes Grover and The Village of Lincolnshire
Architectural Review Board,

The purpose of this letter is to introduce to the Review Board our revised design intent for the proposed Gardner School at 250 Barclay Blvd. The Gardner School is a day care facility with its roots in fostering a strong academically driven curriculum at their facilities. Our aim is to advance that scholastic agenda through the architecture of the building while respecting the aesthetic Lincolnshire is known for.

As stated in the previous letter, The Gardner School focuses on blending traditional education based design elements with subtle residential design features to give a friendly and comfortable look for parents and children. The upscale appearance is indicative of the overall caring and educational experience that the families expect to receive at The Gardner School. Below is a summary of the Review Board's concerns of the previous scheme and design changes we have made to address their comments.

- ARB's concern that the scale of the building was not proportionate to children. To address this, we have lowered the overall building height by approximately 6'-0" and have adjusted the associated design elements to be a proportion more suitable for children.
- ARB comment that the previous design was too busy and had conflicting architectural styles. To address this, we have simplified the overall design and selected key traditional architectural components to develop the new facade.
- ARB stated that the design looked like a retail building. To address this, we made several modifications. The proportion of the windows have been adjusted, the sidelite at classroom entrances has been removed, and the Bahama shutters have been removed. Removal of the Bahama shutters is key as this is a conflicting architectural style and also portrays a typical retail building.

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ARCHITECTS ENGINEERS PLANNERS

ARB requests that the building's design reflect TGS's philosophy. To address this, we emphasized TGS's education focused child care by blending a traditional 'school house' and 'residential' style to create a warm and approachable building that looks like a school but is also a 'home away from home'.

There was a general feeling amongst ARB members that building should resemble a school. As previously mentioned we have focused on blending the aesthetic of a 'school house' with residential articulation to create a warm and approachable building.

ARB was concerned that site lighting was not a suitable scale for children
We've addressed this by incorporating bollards along the front of the building and lowered the light poles to 15' and moved them away from the front façade. This brings the site lighting near the entry to the scale of the children while still ensuring there is ample light throughout the parking lot.

ARB wanted to ensure ample lighting was provided throughout the year
As stated above we've added bollards but maintained some higher power pole lights to ensure the parking lot is well lit. We've also included flood lights to light the playground area. This is an added safety and security measure.

ARB had suggested adding trees to provide rhythm and scale for front façade
We have rendered in the Royal Star Magnolias that bookend the front façade. Two (2) Apple Serviceberry Trees were added to the front planting areas as well. Additional planting areas were added on either side of the flanking entry wall.

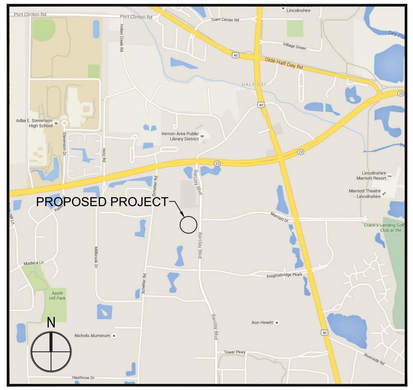
ARB had suggested we soften the Radius on the site plan near trash enclosure
Our civil engineer has softened the radius and the new values are reflected on the C200 sheet.

We are proposing our design with (3) three different material finishes. Option 1, is primarily a traditional and refined aesthetic with a simplified but high end finish palette. Option 2, builds on Option 1 but offers a slightly more residential feel with Lap and Shingle siding to accent. Option 3 provides a more formal variation on Options 1 and 2 by utilizing architectural quoins to frame key elements with brick finish. The Gardner School is confident any of the three options will project the comforting and scholastic environment that is fostered in the interior and would be comfortable moving forward with any of the three.

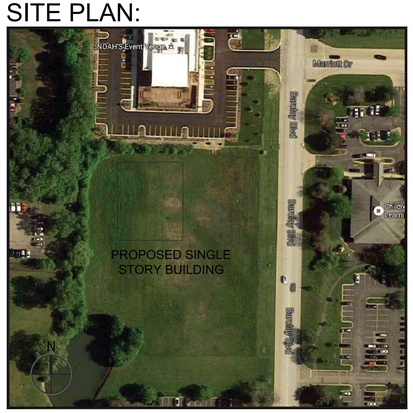
We've also ensured that all mechanical equipment on the roof will be properly screened so that it will not be visible from Barclay Blvd or from anywhere on site. Our site and building are also compliant with all applicable ordinances for the Village of Lincolnshire.

Sincerely,
Bryan Slonski

SITE MAP:



SITE PLAN:



ARCHITECTURAL REVIEW BOARD DOCUMENTS

THE GARDNER SCHOOL - DAYCARE

250 BARCLAY BLVD
LINCOLNSHIRE, IL 60069

CONTACT INFORMATION:

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MEP ENGINEER:
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ST. LOUIS, MISSOURI 63119
314.772.1782

CIVIL ENGINEER:
WOOLPERT
1815 SOUTH MEYERS ROAD SUITE 120
OAKBROOK TERRACE, IL 60181
CONTACT: JON GRZYWA, PE
PHONE: 630.693.6314

PROJECT DATA:

APPLICABLE CODES & REGULATIONS:
- 2009 INTERNATIONAL BUILDING CODE
- 2006 NAT. FIRE PROTECTION ASSOC.- 101 LIFE SAFETY CODE
- 2009 INTERNATIONAL MECHANICAL CODE
- 2012 INTERNATIONAL ENERGY CONSERVATION CODE & ILLINOIS CONSERVATION CODE
- 2008 NATIONAL ELECTRIC CODE
- ILLINOIS STATE PLUMBING CODE
- ILLINOIS DEPT. OF CHILD AND FAMILY SERVICES - DAY CARE LICENSING STANDARDS
- ILLINOIS ACCESSIBILITY CODE

CODE CLASSIFICATION
1. CONSTRUCTION TYPE: IIB
2. USE GROUP: INSTITUTIONAL (I-4)
3. BUILDING AREA: 16,348 SF
4. NUMBER OF STORIES: 1
5. BUILDING HEIGHT: 20'-4 1/8"
6. OCCUPANT LOAD (PER 2009 IBC): TBD
7. OCCUPANT LOAD (PER ILLINOIS STATE PLUMBING CODE): TBD
8. VERIFY SEPARATED OR NON-SEPARATED USE GROUPS: NON-SEPARATED
9. SPRINKLER SYSTEM PER 2009 INTERNATIONAL BUILDING CODE
10. FIRE ALARM SYSTEM PER 2009 INTERNATIONAL BUILDING CODE

PROJECT DESCRIPTION:

A NEW GROUND UP DAY CARE FACILITY WITH IN THE VILLAGE OF LINCOLNSHIRE, IL

CONSTRUCTION NOTES:

ALL CONSTRUCTION AND DEVELOPMENT WILL CONFORM TO THE STANDARDS SET FORTH BY THE ILLINOIS DEPARTMENT OF CHILD AND FAMILY SERVICES AS THEY REGARD TO DAY CARE FACILITIES

PROJECT APPROVALS:

ALL WORK TO COMPLY WITH THE FOLLOWING APPROVALS:

1. TBD

SHEET INDEX:

SHEET #	SHEET NAME	REVISION				
SHEETS						
A000	COVER SHEET					
C200	ARCHITECTURAL SITE PLAN					
C500	LANDSCAPE PLAN					
A010	PHOTOMETRIC LIGHT PLAN					
A011	PHOTOMETRIC LIGHT PLAN					
A012	PHOTOMETRIC LIGHT PLAN					
A020	ROOF PLAN/SCREENING SECTION					
A050	COLOR BUILDING ELEVATIONS SHEETS					
A051	BUILDING ELEVATIONS SHEETS					
A052	SIGN PLAN AND DETAILS					
A053	DUMPSTER ENCLOSURE					
A054	MATERIAL BOARD					
A101	FIRST FLOOR PLAN					
	ARCHITECTURAL RENDERINGS					

SHEET #	SHEET NAME	REVISION				
CIVIL						
C000	COVER SHEET					
C001	GENERAL NOTES					
C100	EXISTING CONDITIONS AND DEMO PLAN					
C200	SITE PLAN					
C300	GRADING PLAN					
C301	EROSION CONTROL PLAN					
C302	EROSION CONTROL DETAILS					
C400	UTILITY PLAN					
C500	LANDSCAPE PLAN					
C600	DETAILS					
C601	DETAILS					

SHEET #	SHEET NAME	REVISION				

ARCHITECT:
NORR ARCHITECTS PLANNERS
325 N. LaSalle St. | Suite 500 | Chicago, IL 60654
t. 312.424.2450 | f. 312.424.2424 | www.norr.com

CIVIL ENGINEER:
WOOLPERT
1815 South Meyers Road
Suite 120
Oakbrook Terrace, IL 60181
630.424.9080
FAX: 630.495.3731

MEP ENGINEER:
William J. Alkemeyer, P.E.
353 Marshall Avenue
St. Louis, Missouri 63119
Phone (314) 772-1782
Fax (314) 313-2014
Engineering Consultant

STRUCTURAL ENGINEER:
DUNAWAY
5121 Bee Cave Road • Suite 105 • Austin, TX 78746
Tel 512.306.8252 • TX REG. F-1114

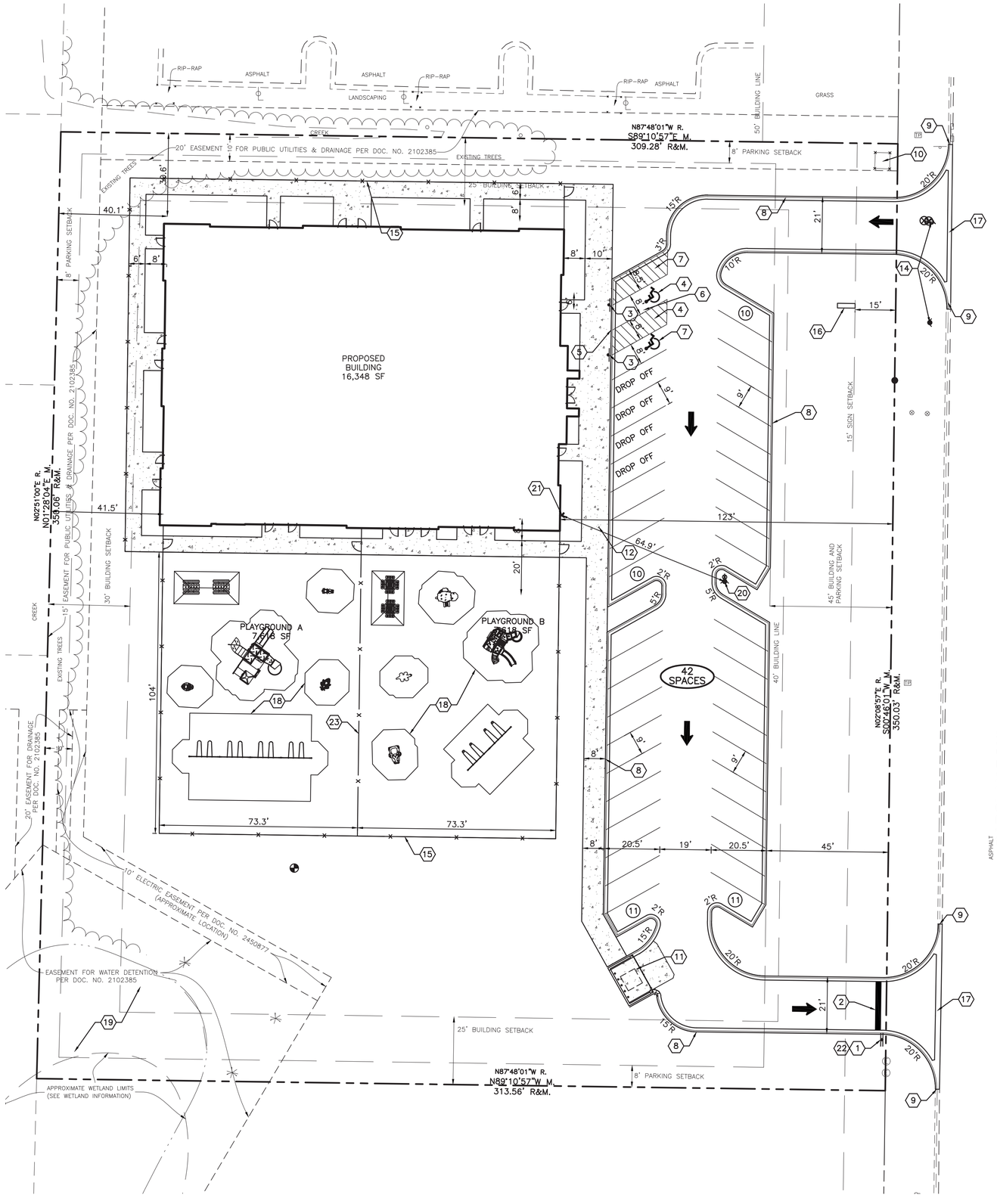
THIS DOCUMENT IS RELEASED FOR PURPOSE OF DESIGN DEVELOPMENT DOCUMENTS; IT IS NOT TO BE USED FOR CONSTRUCTION, BIDDING, OR PERMIT PURPOSES

THE GARDNER SCHOOL
250 BARCLAY BLVD
LINCOLNSHIRE, IL 60069

REVISION

SHEET TITLE
COVER SHEET
-

SHEET NO
A000



SITE LEGEND

- INDICATES LIGHT DUTY PAVEMENT–SEE DETAILS FOR PAVEMENT COMPOSITION
- INDICATES HEAVY DUTY PAVEMENT–SEE DETAILS FOR PAVEMENT COMPOSITION
- INDICATES NEW CONCRETE PAVEMENT/SIDEWALK–SEE DETAILS FOR PAVEMENT COMPOSITION
- LIGHT POLES
- EXISTING CURB AND GUTTER
- POSITIVE SLOPED CURB
- NEGATIVE SLOPED CURB
- (10) INDICATES ROW PARKING COUNT
- (100 SPACES) INDICATES PARKING TOTAL FOR SURROUNDING AREA
- PROPERTY BOUNDARY

N

SITE KEY NOTES

NO.	DESCRIPTION
1	"STOP" SIGN, R1–1
2	24" WIDE STOP BAR, TRAFFIC WHITE PAINT
3	ACCESSIBLE PARKING SIGN
4	ACCESSIBLE PARKING SYMBOL
5	ACCESSIBLE RAMP WITH DETECTABLE WARNING
6	ACCESSIBLE PARKING SPACES & THEIR ACCESS AISLES SHALL BE 2% MAX. SLOPE IN ALL DIRECTIONS
7	PAINT 4" WIDE STRIPES @ 2'–0" O.C. @ 45° ANGLE, TRAFFIC YELLOW PAINT
8	CURB AND GUTTER
9	BEGIN/END PROPOSED CURB AND GUTTER. SAWCUT EXISTING CURB TO PROVIDE CLEAN CONSTRUCTION JOINT.
10	EXISTING TRANSFORMER TO REMAIN
11	DUMPSTER ENCLOSURE (SEE ARCHITECTURAL PLANS)
12	CONCRETE WALK
13	DIRECTIONAL ARROW, TRAFFIC WHITE PAINT
14	RELOCATE EXISTING HYDRANT
15	6' FENCE–SEE ARCHITECTURAL PLANS. FENCE TO MEET DCFS REQUIREMENTS
16	MONUMENT SIGN – SEE ARCHITECTURAL PLANS
17	DEPRESSED CURB AND GUTTER
18	PLAYGROUND AREA
19	EXISTING DETENTION AREA
20	FIRE HYDRANT
21	FIRE DEPARTMENT CONNECTION
22	"DO NOT ENTER" SIGN
23	4' FENCE–SEE ARCHITECTURAL PLANS. FENCE TO MEET DCFS REQUIREMENTS

SITE DATA

GROSS SITE AREA	2.502±	ACRES
NET SITE AREA	2.502±	ACRES
GROSS IMPERVIOUS SURFACE AREA	40,568 SF	
GROSS AREA OF OPEN SPACE	68,420 SF	
PIN	15–22–101–020	
ZONING	O/IC	
FAR	0.147	
BUILDING DATA:		
TOTAL GROSS AREA OF ALL BUILDINGS (ONE USE, DAYCARE)	16,348 SF	
BUILDING HEIGHT MAX (AT CUPOLA)	25'–1 1/2"	
BUILDING HEIGHT AT TALLEST ROOFTOP UNIT	17'–6 1/2"	
PLAYGROUND A AREA	7,618 SF	
PLAYGROUND B AREA	7,618 SF	
PARKING DATA:		
SPACES REQUIRED	1/500 SF = 33 SPACES	
SPACES PROVIDED	42	
ACCESSIBLE SPACES REQUIRED	2	
ACCESSIBLE SPACES PROVIDED	2	
SETBACK DATA:		
FRONT BUILDING	40'	35'+1' FOR EVERY 1' OF BUILDING HEIGHT OVER 20'
SIDE BUILDING	25'	20'+1' FOR EVERY 1' OF BUILDING HEIGHT OVER 20'
REAR BUILDING	30'	25'+1' FOR EVERY 1' OF BUILDING HEIGHT OVER 20'
PARKING	8'	NO PARKING IN REQUIRED FRONT YARDS. PARKING PERMITTED IN REQUIRED REAR AND INTERIOR SIDE YARDS

SITE NOTES

1. ALL DIMENSIONS, RADII AND COORDINATES ARE TO BACK OF CURB WHERE APPLICABLE.
2. ALL PAVEMENT MARKING SHALL BE YELLOW IN COLOR UNLESS INDICATED OTHERWISE.
3. ALL CURB & GUTTER SHALL BE B6.12, "POSITIVE", UNLESS NOTED OTHERWISE (SEE DETAILS).
4. SEE ARCHITECTURAL PLANS FOR BUILDING DIMENSIONS.

BENCHMARK:

THE BASIS OF ELEVATIONS HEREON IS NAVD 88. IRON ROD SET – SEE DRAWING FOR LOCATION.

ELEVATION = 662.66'

0 20 40 60
GRAPHIC SCALE IN FEET

Call Before You Dig
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Simply Call 811

No.	DATE	REVISION
	08/31/16	ISSUED FOR ARB

SEAL

PROJECT No: 76561
DATE 06/06/16
DES. BI
DR. DH
CKD. JG

WOOLPERT
1815 South Meyers Road
Suite 120
Oakbrook Terrace, IL 60181
630.424.9080
FAX: 630.495.3731

SITE IMPROVEMENT PLANS THE GARDNER SCHOOL

250 BARCLAY BOULEVARD
LINCOLNSHIRE, ILLINOIS

SITE PLAN

SHEET NO.
C200

Layout Tab Name: C200 SITE PLAN, Images: lincolnshire aerial.jpg: MAP.png: , Xrefs: 076561–TBLK.dwg; 076561–X.dwg; 076561–P.dwg
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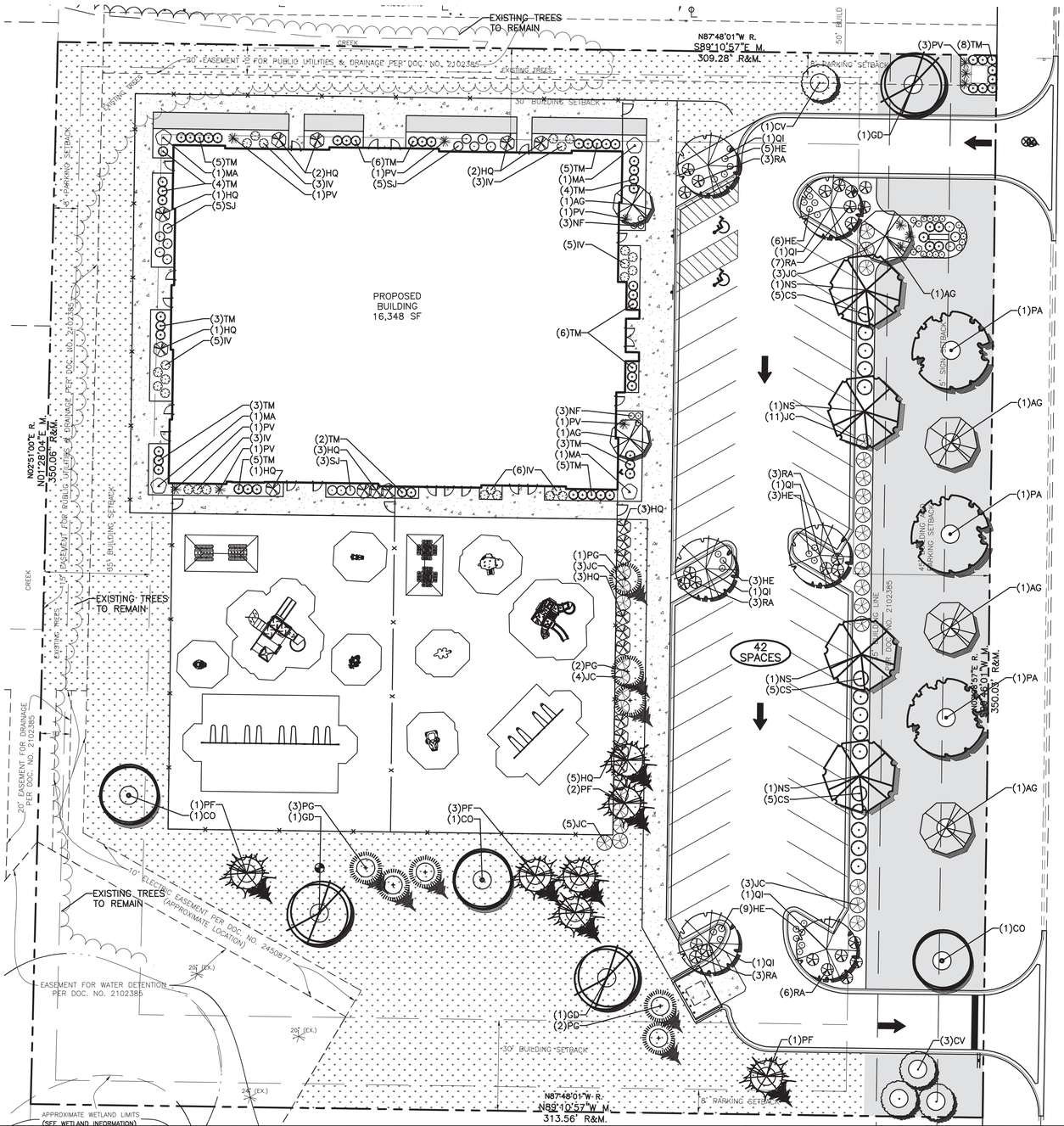


LANDSCAPE CODE SUMMARY

PARKING LOT SCREEN
A MINIMUM OF 50% OF LINEAR LENGTH OF PARKING FACILITIES VISIBLE FROM THE PUBLIC WAY SHALL BE SCREENED BY A DIVERSITY OF SHRUBS AND TREES

281 LF OF PARKING LOT
= 140.5 LF OF SHRUBS AND TREES REQUIRED
= 200 LF, 4 SHADE TREES & 27 SHRUBS PROVIDED

PARKING LOT ISLANDS
A MINIMUM OF ONE DECIDUOUS SHADE TREE PLANTED IN EVERY PARKING LOT ISLAND WITH UNDERSTORY SHRUBS, PERENNIALS, AND OTHER PLANT MATERIALS

6 PARKING LOT ISLANDS
= 6 SHADE TREES WITH SHRUBS AND PERENNIALS REQUIRED
= 6 SHADE TREES, 18 SHRUBS, & 26 PERENNIALS PROVIDED

GREENSPACE TREES PER ACRE
PROVIDE SIX 4.5" CAL. DECIDUOUS SHADE TREES, SIX 2.5" CAL. DECIDUOUS SHADE TREES, FOUR 8.5' HT. ORNAMENTAL TREES, FOUR 6' ORNAMENTAL TREES, FIVE 10' HT. EVERGREEN TREES, & FIVE 8' HT. EVERGREEN TREES.

1.2 ACRES OF GREENSPACE
= (6) 4.5" CAL. SHADE TREES
(6) 2.5" CAL. SHADE TREES
(4) 8.5' HT. ORNAMENTAL TREES
(4) 6' HT. ORNAMENTAL TREES
(5) 10' HT. EVERGREEN TREES
(5) 8' HT. EVERGREEN TREES REQUIRED

= (3) EXISTING TREES OVER 4.5" CAL.
(3) 4.5" CALL SHADE TREES
(6) 2.5" CAL. SHADE TREES
(4) 8.5' HT. ORNAMENTAL TREES
(4) 6' HT. ORNAMENTAL TREES
(5) 10' HT. EVERGREEN TREES
(5) 8' HT. EVERGREEN TREES PROVIDED

SEEDING & SOD MIX

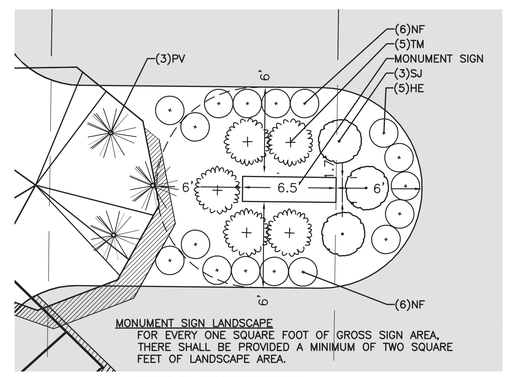
SEED MIX 26,673 SF

SOD MIX 11,900 SF

KY BLUEGRASS	30 LBS/ACRE
PERENNIAL RYEGRASS	10 LBS/ACRE
DAWSONS RED FESCUE	10 LBS/ACRE
SCALDIS HARD FESCUE	10 LBS/ACRE
FULTS SALT GRASS	30 LBS/ACRE

LANDSCAPE NOTES

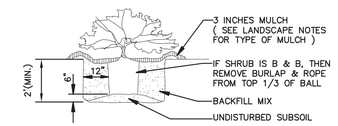
1. LOCATING AND PROTECTING ALL UNDERGROUND UTILITIES, PRIOR TO DIGGING, IS RESPONSIBILITY OF THE LANDSCAPE CONTRACTOR.
2. PRIOR TO INSTALLATION, THE LANDSCAPE CONTRACTOR SHALL INSPECT THE SUB GRADE, GENERAL SITE CONDITIONS, VERIFY ELEVATIONS, UTILITY LOCATIONS, IRRIGATION, APPROVE TOPSOIL PROVIDED BY GENERAL CONTRACTOR AND OBSERVE THE SITE CONDITIONS UNDER WHICH THE WORK IS TO BE DONE. NOTIFY GENERAL CONTRACTOR OF ANY UNSATISFACTORY CONDITIONS. WORK SHALL NOT PROCEED UNTIL SUCH CONDITIONS HAVE BEEN CORRECTED AND ARE ACCEPTABLE TO THE LANDSCAPE CONTRACTOR AND/OR CONSTRUCTION MANAGER.
3. GENERAL AND LANDSCAPE CONTRACTOR ARE RESPONSIBLE FOR PROTECTING EXISTING TREES FROM DAMAGE DURING CONSTRUCTION. GENERAL CONTRACTOR TO INSTALL TREE PROTECTION FENCING PRIOR TO ANY SITE WORK.
4. ALL SHRUB AND GROUNDCOVER BEDS TO BE MULCHED WITH A MINIMUM OF 3 INCHES OF CLEAN SHREDDED HARDWOOD MULCH.
5. PLANTING HOLES TO BE DUG A MINIMUM OF TWICE THE WIDTH AND 6–12 INCHES DEEPER THAN THE SIZE OF THE ROOT BALL OF BOTH SHRUB AND TREE. AMEND BACKFILL WITH TOPSOIL MIX. BACKFILL AND TAMP BOTTOM OF HOLE PRIOR TO PLANTING SO TOP OF ROOT BALL DOES NOT SETTLE BELOW SURROUNDING GRADE.
6. TOPSOIL MIX TO BE 4 PARTS SCREENED TOPSOIL AND 1 PART ORGANIC MATERIAL (i.e. NATURE'S HELPER OR PRO MIX).
7. EXISTING GRASS IN PROPOSED PLANTING AREAS TO BE REMOVED AND AREA TO BE HAND RAKED TO REMOVE ALL ROCKS AND DEBRIS LARGER THAN 1 INCH IN DIAMETER PRIOR TO PLANTING SHRUBS.
8. SOIL TO BE TESTED TO DETERMINE FERTILIZER AND LIME REQUIREMENTS. LIME AND FERTILIZER TO BE DISTRIBUTED PRIOR TO LAYING SOD.
9. SOD TO BE DELIVERED FRESH (CUT LESS THAN 24 HOURS PRIOR TO ARRIVING ON SITE), LAID IMMEDIATELY, ROLLED AND WATERED THOROUGHLY WITHIN ONE HOUR OF INSTALLATION.
10. ALL CHANGES TO DESIGN AND/OR PLANT SUBSTITUTIONS TO BE AUTHORIZED BY LANDSCAPE ARCHITECT.
11. ALL PARKING ISLANDS TO BE BERMED UP 6"–10" WITH CLEAN FRIABLE TOPSOIL PRIOR TO PLANTING.
12. ALL LANDSCAPING SHALL BE INSTALLED IN CONFORMANCE WITH ANSI Z60.1 THE AMERICAN STANDARD FOR NURSERY STOCK, AND THE ACCEPTED STANDARDS OF THE AMERICAN ASSOCIATION OF NURSERYMEN.
13. SITE TO BE 100% IRRIGATED BY AN AUTOMATIC UNDERGROUND IRRIGATION SYSTEM.
14. THE LANDSCAPE CONTRACTOR SHALL GUARANTEE ALL PLANTS INSTALLED FOR ONE FULL YEAR FROM DATE OF ACCEPTANCE BY THE OWNER. ALL PLANTS SHALL BE ALIVE AND AT A VIGOROUS RATE OF GROWTH AT THE END OF THE GUARANTEE PERIOD. THE LANDSCAPE CONTRACTOR SHALL NOT BE RESPONSIBLE FOR ACTS OF GOD OR VANDALISM.
15. ANY PLANT THAT IS DETERMINED DEAD, IN AN UNHEALTHY OR UNSIGHTLY CONDITION, LOST ITS SHAPE DUE TO DEAD BRANCHES OR OTHER SYMPTOMS OF POOR, NON–VIGOROUS GROWTH SHALL BE REPLACED BY THE LANDSCAPE CONTRACTOR WITH THE COST OF THE REPLACEMENT INCLUDED IN THE BID OR PROPOSAL PRICE.
16. WATER THOROUGHLY TWICE IN THE FIRST 24 HOURS AND APPLY MULCH IMMEDIATELY.
17. NO MORE THAN TWENTY–FIVE PERCENT (25%) OF LANDSCAPE BEDS WILL BE LEFT UNPLANTED.



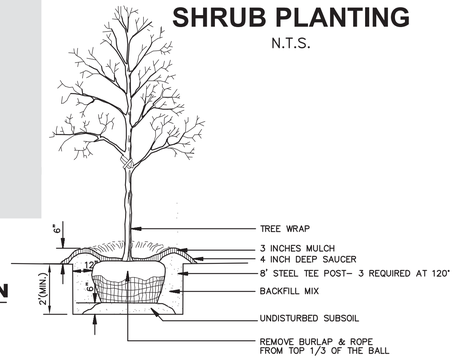
MONUMENT SIGN LANDSCAPE
FOR EVERY ONE SQUARE FOOT OF GROSS SIGN AREA, THERE SHALL BE PROVIDED A MINIMUM OF TWO SQUARE FEET OF LANDSCAPE AREA.

74 SF OF GROSS SIGN AREA
= 148 SF OF LANDSCAPE AREA REQUIRED
= 217 SF OF LANDSCAPE AREA PROVIDED

1 **MONUMENT SIGN LANDSCAPE PLAN**
SCALE: 1" = 5'–0"



SHRUB PLANTING
N.T.S.



NOTE: SEE LANDSCAPE NOTES FOR THE TYPE OF MULCH MATERIAL TO USE.

TREE PLANTING
N.T.S.

TAG	QTY	SCIENTIFIC NAME	COMMON NAME	COND.	SIZE	REMARKS	BLOOM TIME
SHADE TREE							
CO	3	Celtis occidentalis 'Prairie Pride'	Prairie Pride Hackberry	B&B	2.5" cal. 14'ht. 7'wd	Full, well shaped	April to May
GD	3	Gymnocladus dioica 'Espresso'	Fruitless KY Coffeetree	B&B	2.5" cal. 14'ht. 7'wd	Full, well shaped	May to June
NS	4	Nyssa sylvatica	Black Gum	B&B	2.5" cal. 14'ht. 7'wd	Full, well shaped	May to June
PA	3	Platanus x acerifolia 'Morton Circle'	Exclamation London Planetree	B&B	4.5" cal. 20'ht. 10'wd	Full, well shaped	April
QI	6	Quercus imbricaria	Shingle Oak	B&B	2.5" cal. 14'ht. 7'wd	Full, well shaped	April
ORNAMENTAL / EVERGREEN TREE							
AG	6	Amelanchier x grandiflora 'Autumn Brilliance'	Apple Serviceberry	B&B	8.5'ht. 5'wd.	Full, well shaped, single–stem	April
CV	4	Crataegus viridis 'Winter King'	Winter King Hawthorn	B&B	6'ht. 4'wd.	Full, well shaped, single–stem	May
PG	8	Picea glauca 'Densata'	Black Hills Spruce	B&B	8'ht. x 4'wd.	Full to ground, well shaped	
PF	7	Pinus flexilis	Limber Pine	B&B	10'ht. x 5'wd.	Full to ground, well shaped	
EVERGREEN SHRUB							
JC	29	Juniperus chinensis 'Sea Green'	Sea Green Juniper	B&B	24"ht. x 24"wd.	Full, vigorous	
TM	62	Taxus x media 'Densiformis'	Dense Yew	B&B	18"ht. x 18"wd.	Full, vigorous	

TAG	QTY	SCIENTIFIC NAME	COMMON NAME	COND.	SIZE	REMARKS	BLOOM TIME
DECIDUOUS SHRUB							
CS	15	Cornus sericea 'Isanti'	Red Twig Dogwood	B&B	24"ht. x 24"wd.	Full, vigorous	May to June
HQ	21	Hydrangea paniculata 'Tardiva'	Tardiva Hydrangea	B&B	24"ht. x 24"wd.	Full, vigorous	July to September
IV	25	Itea virginica 'Little Henry'	Little Henry Sweetspire	#3 cont.	18"ht. x 18"wd.	Full, vigorous	June to July
MA	4	Magnolia stellata 'Royal Star'	Royal Star Magnolia	B&B	48"ht. x 24"wd.	Full, vigorous	March
SJ	16	Spiraea japonica 'Little Princess'	Little Princess Spirea	#3 cont.	12"ht. x 18"wd.	Full, vigorous	May to July
RA	25	Rhus aromatica 'Gro–Low'	Gro–Low Fragrant Sumac	#3 cont.	12"ht. x 18"wd.	Full, vigorous	April to May
ORNAMENTAL GRASS							
PV	12	Panicum virgatum 'Red Ribbons'	Red Ribbons Switchgrass	#2 cont.		Full, vigorous	July to February
PERENNIAL / ANNUAL COLOR							
HE	31	Hemerocalis 'Happy Returns'	Happy Returns Daylily	#1 cont.			June to October
NF	18	Nepeta x fassennii 'Walker's Low'	Walker's Low Catmint	#1 cont.			April to September

* QUANTITIES ARE PROVIDED FOR CONVENIENCE ONLY. CONTRACTOR IS RESPONSIBLE FOR ALL QUANTITIES OF PLANTS ON LANDSCAPE PLAN.

BENCHMARK:

THE BASIS OF ELEVATIONS HEREON IS NAVD 88. IRON ROD SET – SEE DRAWING FOR LOCATION.

ELEVATION = 662.66'

Call Before You Dig
JULIE ILLINOIS ONE-CALL SYSTEM
Simply Call 811

0 20 40 60
GRAPHIC SCALE IN FEET

No.	DATE	REVISION
	08/31/16	ISSUED FOR ARB

PROJECT No: 76561
DATE 06/06/16
DES. BI
DR. DH
CKD. JG

WOOLPERT
1815 South Meyers Road
Suite 120
Oakbrook Terrace, IL 60181
630.424.9080
FAX: 630.495.3731

SITE IMPROVEMENT PLANS
THE GARDNER SCHOOL
250 BARCLAY BOULEVARD
LINCOLNSHIRE, ILLINOIS

LANDSCAPE PLAN

SHEET NO.
C500

Layout Tab Name: C500 LANDSCAPE PLAN, Images: lincolnshire aerial.jpg; MAP.png; , Xrefs: 076561–TBLK.dwg; 076561–X.dwg; 076561–P.dwg
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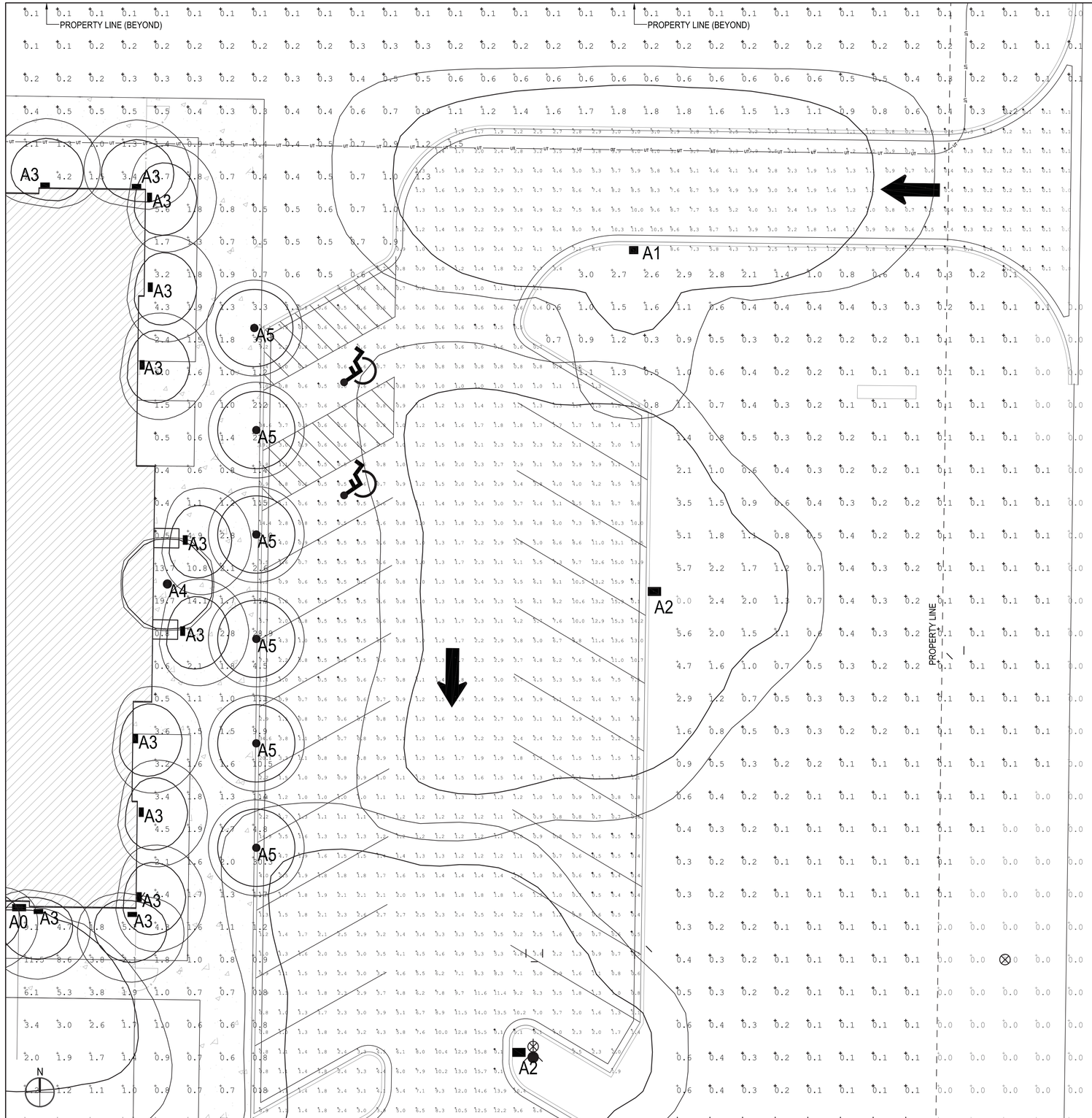
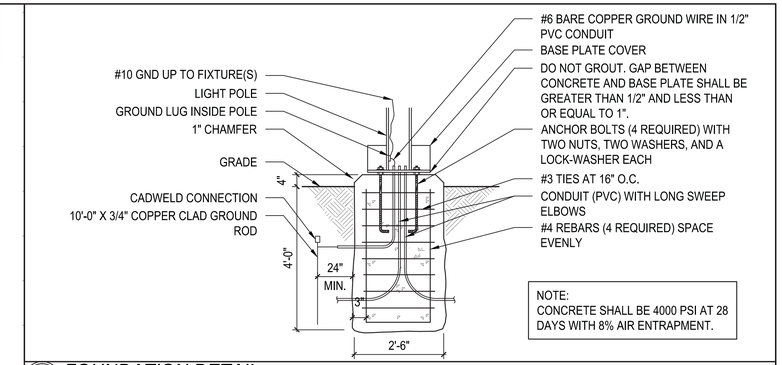


24 PHOTOMETRIC SITE PLAN
SCALE: 1/16"=1'-0"



NOTE:
CONCRETE SHALL BE 4000 PSI AT 28 DAYS WITH 8% AIR ENTRAPMENT.

5 FOUNDATION DETAIL
SCALE: 1/2"=1'-0"

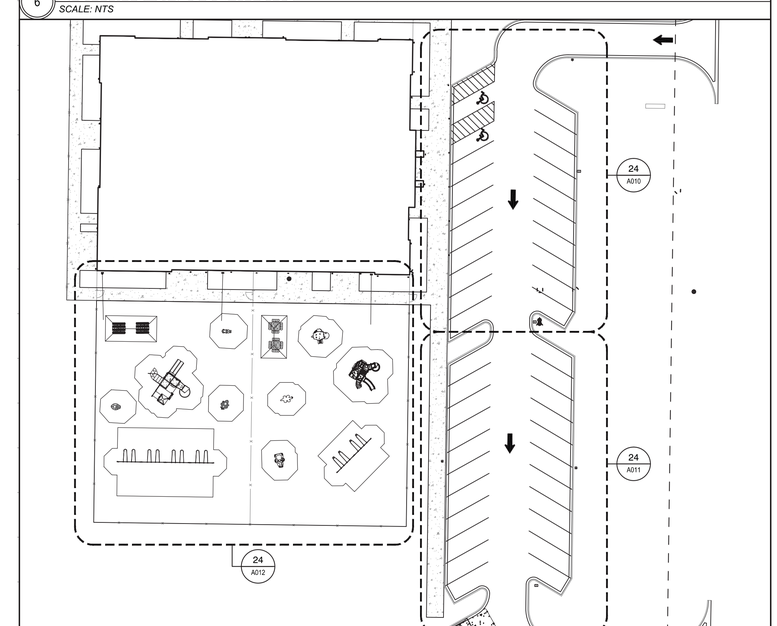
Luminaire Schedule

Symbol	Qty	Label	LLF	Description
A0	3	itl79504-c	0.800	FXLED78SFY - FXLED78TY (SF=SLIPFITTER MOUNT &
A1	4	ASL-16L-4K-210-3 (2)	0.800	ASL-16L-4K-210-3
A2	3	ASL-24L-4K-210-4	0.800	ASL-24L-4K-210-4 - 25' Pole
A3	35	4964407FL	0.800	KICHLER CATERHAM FL OUTDOOR WALL LANTER
A4	1	r4nc630k12d-c4322m-c	0.350	R4NC630K12D-C4322M-CLR
A5	6	L101505001 (Titano-7	0.800	VX-TNO

Calculation Summary

Label	CalcType	Units	Avg	Max	Min
Parking	Illuminance	Fc	3.06	36.8	0.0
Site	Illuminance	Fc	0.27	35.7	0.0

6 LIGHTING CALCULATIONS
SCALE: NTS



8 SITE KEY PLAN
SCALE: NTS

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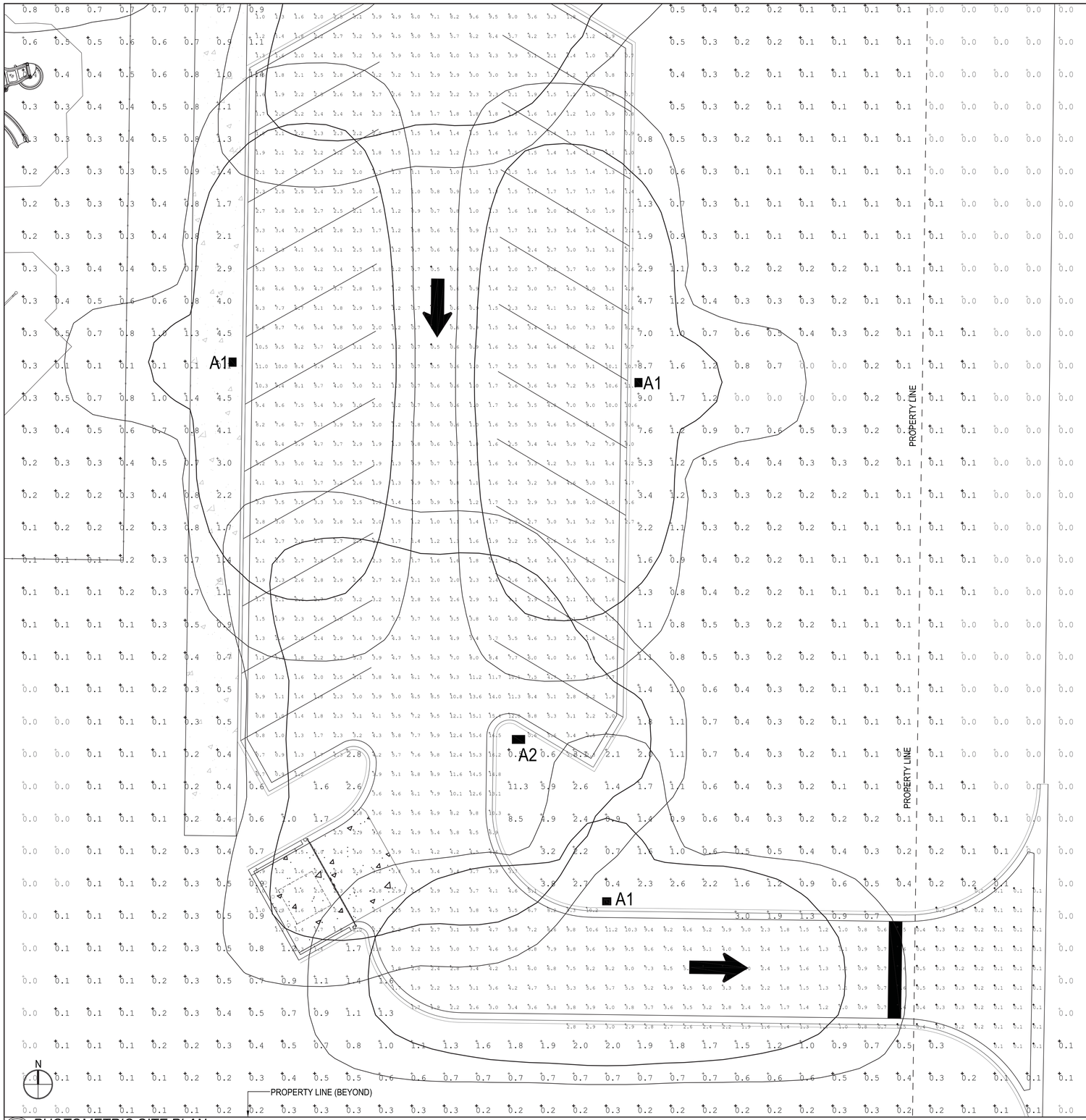
REVISION

SHEET TITLE
PHOTOMETRIC SITE PLAN

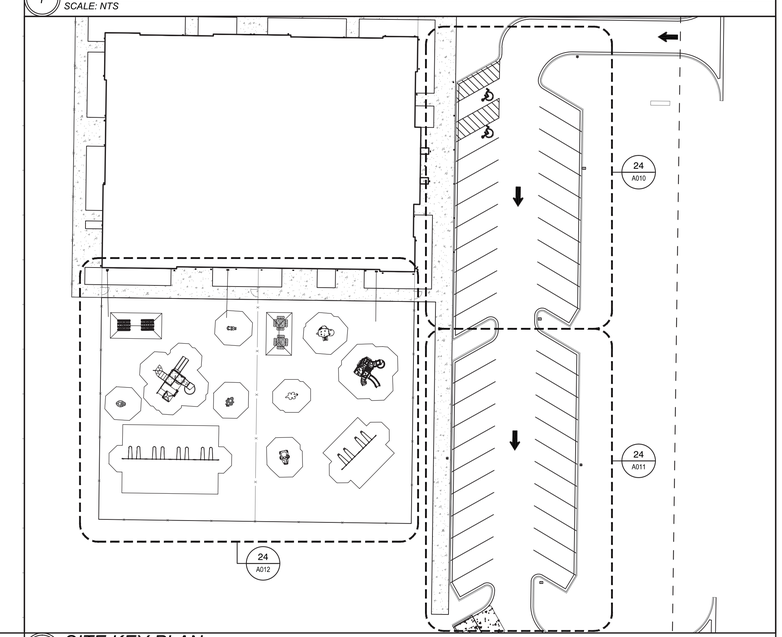
SHEET NO
A010



24 PHOTOMETRIC SITE PLAN
SCALE: 1/16"=1'-0"

NOTE:
COMBO LIGHT AND POLE UNIT
FINISH: DARK BRONZE (TEXTURED)
HEIGHT: 15' POLES

7 POLE LIGHT PHOTOS / SPECIFICATION
SCALE: NTS



8 SITE KEY PLAN
SCALE: NTS

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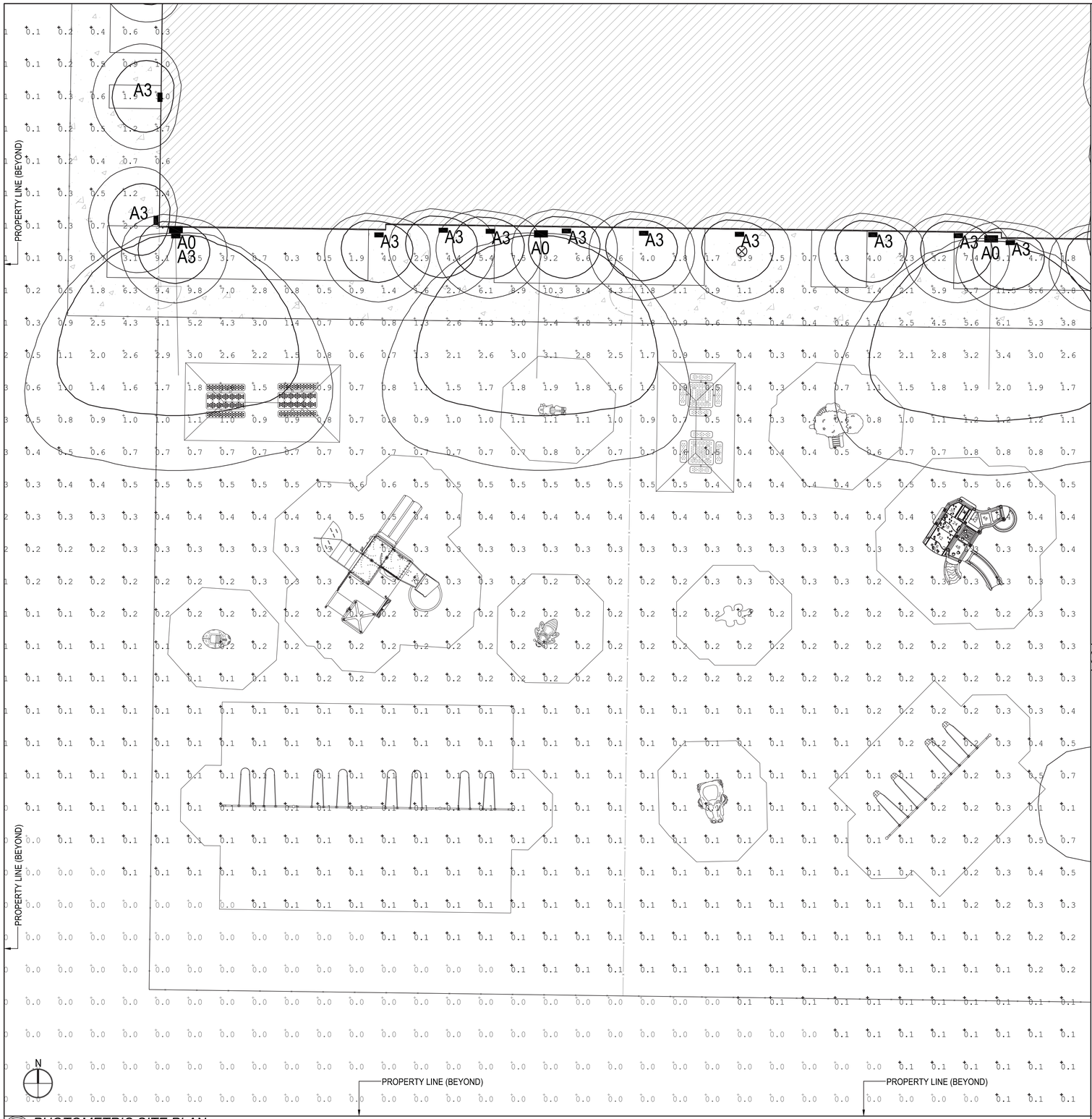
REVISION

SHEET TITLE
PHOTOMETRIC SITE PLAN

SHEET NO
A011



24 PHOTOMETRIC SITE PLAN
SCALE: 1/16"=1'-0"

FXLED78T

RAB LIGHTING

High power, wide distribution LED floodlight. Replaces 250W MH. Patent Pending airflow technology ensures long LED and driver lifespan. Use for building facade lighting, sign lighting, LED landscape lighting and instant on security lighting.

Color: Bronze
Weight: 24.0 lbs

Project:	Type:
Prepared By:	Date:

Driver Info

Type:	Constant Current
120V:	0.66A
208V:	0.38A
240V:	0.35A
277V:	0.30A
Input Watts:	79W
Efficiency:	90%

LED Info

Watts:	79W
Color Temp:	5100K
Color Accuracy:	70CRI
L70 Lifespan:	100000
Lumens:	7,597
Efficacy:	97 LPW

FINISH TO BE BRONZE: AS SHOWN ABOVE

Technical Specifications

Listings

UL Listing:
Suitable for wet locations. Suitable for ground mounting.

IESNA LM-79 & LM-80 Testing:
RAB LED Luminaires have been tested by an independent laboratory in accordance with IESNA LM-79 and LM-80, and have received the Department of Energy "Lighting Facts" label.

DLC Listed:
This product is on the Design Lights Consortium (DLC) Qualified Products List and is eligible for rebates from DLC Member Utilities.
DLC Product Code: P0000170PA

LED Characteristics

Lifespan:
100,000 Hour LED lifespan based on IES LM-80 results and TM-21 calculations.

LEDs:
Six multi-chip, 135lmW high-output, long-life LEDs.

Color Consistency:
7-step MacAdam Ellipse binning to achieve consistent future-to-future color.

Color Stability:
LED color temperature is warranted to shift no more than 200K in CCT over a 3 year period.

Color Uniformity:
RAB's range of CCT (Correlated Color Temperature) follows the guidelines of the American National Standard 1931c Products, ANSI C78.377-2015.

Construction

IP Rating:
Ingress Protection rating of IP66 for dust and water.

EPA:
2.

Ambient Temperature:
Suitable for use in 40°C ambient temperatures.

Cold Weather Starting:
The minimum starting temperature is -40°C/-40°F

Thermal Management:
Superior heat sinking with external Air-Flow fins.

Housing:
Die-cast aluminum housing and door frame.

Mounting:
Heavy-duty Tsunmin mount with stainless steel hardware.

Reflector:
Specular vacuum-metallized polycarbonate

Gaskets:
High-temperature silicone gaskets.

Finish:
Our environmentally friendly polyester powder coatings are formulated for high-durability and long-lasting color, and contains no VOC or toxic heavy metals.

Green Technology:
Mercury and UV free.

Optical

NEMA Type:
NEMA Beam Spread of 8H x 5V.

Replacement Range:
The FXLED78 can be used to replace 150 - 320W Metal Halide floodlights based on delivered lumens.

Electrical

Driver:
Constant Current, Class 2, 2000mA, 100-277V, 50-60Hz, 1.1A, Power Factor 90%.

THD:
3% at 120V, 13.1% at 277V.

Surge Protection:
4kV

Other

Equivalency:
The FXLED78 is Equivalent in delivered lumens to a 250W Metal Halide.

California Title 24:
See FXLED78P-SYU, FXLED78P-BL, FXLED78P-PCT for a 2013 California Title 24 compliant version. Additional compliance requirements will be listed in the Title 24 section under technical specifications on the product page.

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Page 1 of 2
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FXLED78T

RAB LIGHTING

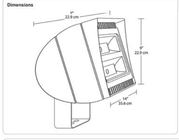
Technical Specifications (continued)

Other

Warranty:
RAB warrants that our LED products will be free from defects in workmanship and materials for a period of five (5) years from the date of delivery to the end user, including coverage of light output, color stability, driver performance and fixture finish.

Patents:
The FXLED78 design is protected by U.S. Pat. D639,280, Canada Pat. 142195, China Pat. ZL201130432928.0, Mexico Pat. 39358 and pending patents in Taiwan.

Dimensions



Features

- 79 Watt high-performance LED
- Replaces 250W MH floodlights
- 100,000 Hour life based on LM-80 tests
- Air-flow technology heatsink
- NEMA type – 8H x 5V
- Skyglider and trunnion mounting available
- 5-year warranty

Ordering Matrix

Family	Watts	Mount	Color Temp	Finish	Dimming	Voltage	Photocell	Bi-Level
FXLED	78 = 78W	= Arm T = Trunnion SF = Skyglider	= 5000K (Cool) = 3000K (Warm) N = 4000K (Neutral)	= Bronze BK = White	= No Dimming DCOS = Dimmable	= 120-277V HWB = HID Ready	= No Photocell PCTW = 120-277V Twistlock Photocell PCTLV = 480V Twistlock Photocell	= No Bi-Level BL = Bi-Level

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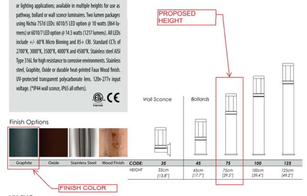
TITANO *family*

CUT SHEET U4A051

VILTED OUTDOOR

TITANO *family* (Contemporary wall location fixture series for exterior lighting applications; available in multiple heights for use as pathway, bollard or wall sconce luminaires. Two lumen packages using Nichia 757A CRI, 60100 LED options (8 TO watts (364 lumens) or 60TO7 LED option (9.5 watts (1217 lumens). All LEDs include +/- 40°K Micro Binning and 85+ CRI. Standard CCS of 2700°K, 3000°K, 3500°K, 4000°K and 4500°K. Stainless steel AISI Type 316L for high-resistance to corrosive environments. Stainless steel, Graphite, Oxide or durable heat-printed faux Wood finish. UV-protected transparent polycarbonate lens. 120v-277v input voltage. (*PIR4 wall sconce, PIR3 all others).



Finish Options

VX-TNO-___-___-___-___-___-___-___-___

LED		CCT		FINISH		LENS		POWER SUPPLY		FIXTURE HEIGHT	
60TO7	8W Lumens 10 Watts	27	2700°K	GR	Graphite	CLC	Clear Lens	STD	Standard Non-Dim/ 0-10v dimming (120v-277v)	WS	Wall Sconce (IP44)
		30	3000°K	OX	Oxide			DIM	eldoLED 0-10v dimming (120v-277v)	40	40cm Bollard
60TO7	12T7 Lumens 14.3 Watts	35	3500°K	SS	Stainless Steel					70	70cm Bollard
		40	4000°K	WDGR	Wood Graphite					100	100cm Bollard
		45	4500°K	WDOX	Wood Oxide					120	120cm Bollard
				WDSS	Wood Stainless Steel						

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TITANO *family*

CUT SHEET U4A051

LED Fundamentals

LED Board	60TO/5	60TO/7
Lumen Output	864 lm	1217 lm
Power Consumption	10 Watts	14.1 Watts
CRI	85+	85+
CCT Options	2700°K, 3000°K, 3500°K, 4000°K, 4500°K	2700°K, 3000°K, 3500°K, 4000°K, 4500°K
Applied LED	Nichia 757A	Nichia 757A
Binning	±60°K	±60°K
LED Efficacy	138 lm/w	138 lm/w
Fixture Efficacy	90	85

Electrical Data

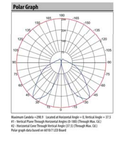
Driver Type	Constant Current 500mA	Constant Current 700mA
Voltage	120-277 VAC	120-277 VAC
Power Factor	>0.90	>0.91
Input Current	0.08 A	0.12 A
Frequency	50/60hz	50/60hz
Operating Ambient Temperature	-22° to 140° F (-30° to 60° C)	-22° to 140° F (-30° to 60° C)

Photometrics

B.U.G. Rating	B0 - U3 - G1	B1 - U3 - G1

Data Based on 3500°K CCT
IES Files Available at vltledoutdoor.com

Polar Graph

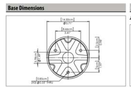


Illuminate Candela • LORI 0 • Located at Horizontal Angle = 0, Vertical Angle = 37.5
Luminaire Efficiency: 100.000% • Luminaire Efficacy: 138.000 lm/W
H2 - Horizontal Cone Through Vertical Angle of 37.5 (To Through Max. CBZ)
Polar graph data based on IES TY-03 Batwing

Approx. Fixture Shipping Weights

	lbs	kg
WS	8	3.62
40	9	4.1
70	14	6.4
100	17	7.7
120	20	9.1

Base Dimensions



Optional Accessories

J-Bolt:

Catalog No. VX - AC - 400 - MK

Hardware:

Catalog No. VX - AC - HW - M6 - PWD

Catalog No. VX - AC - HW - M6 - VDL

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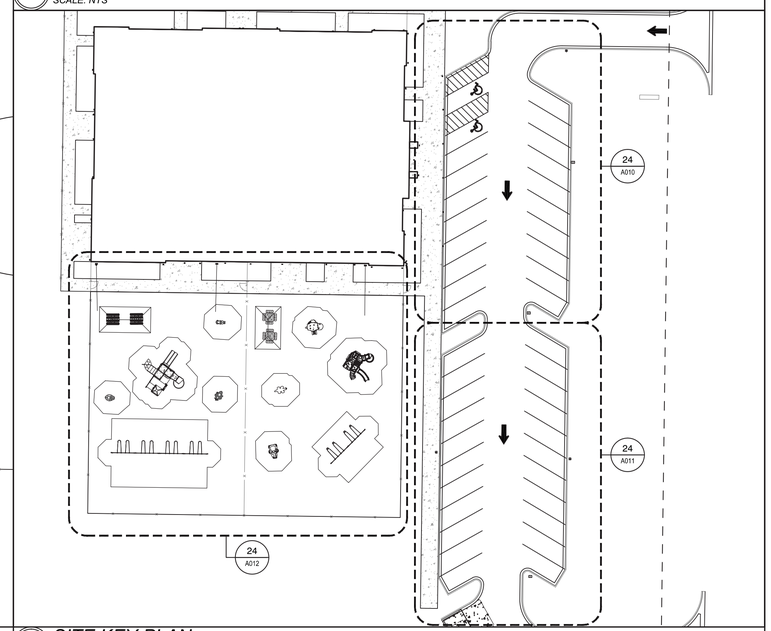
7 FLOOD LIGHT & BOLLARD LIGHT SPEC SHEET
SCALE: NTS



8 SITE KEY PLAN
SCALE: NTS

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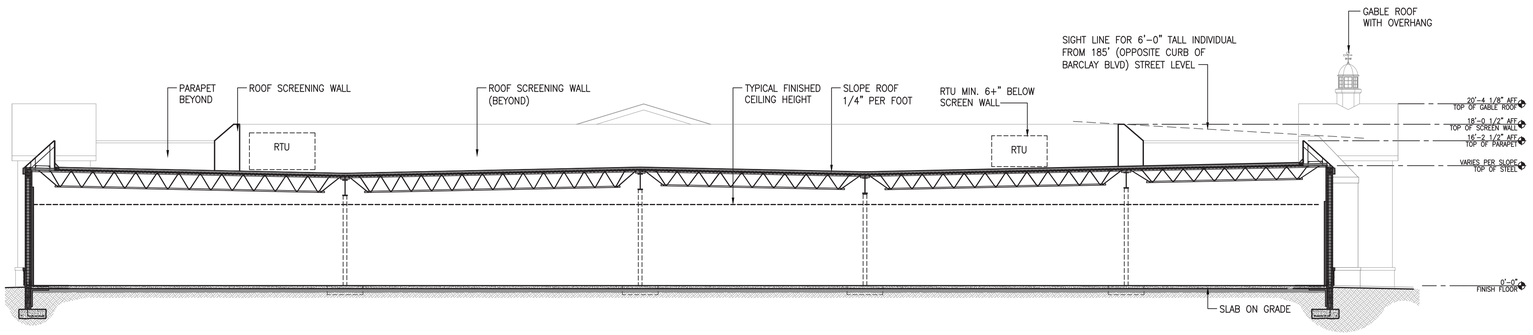
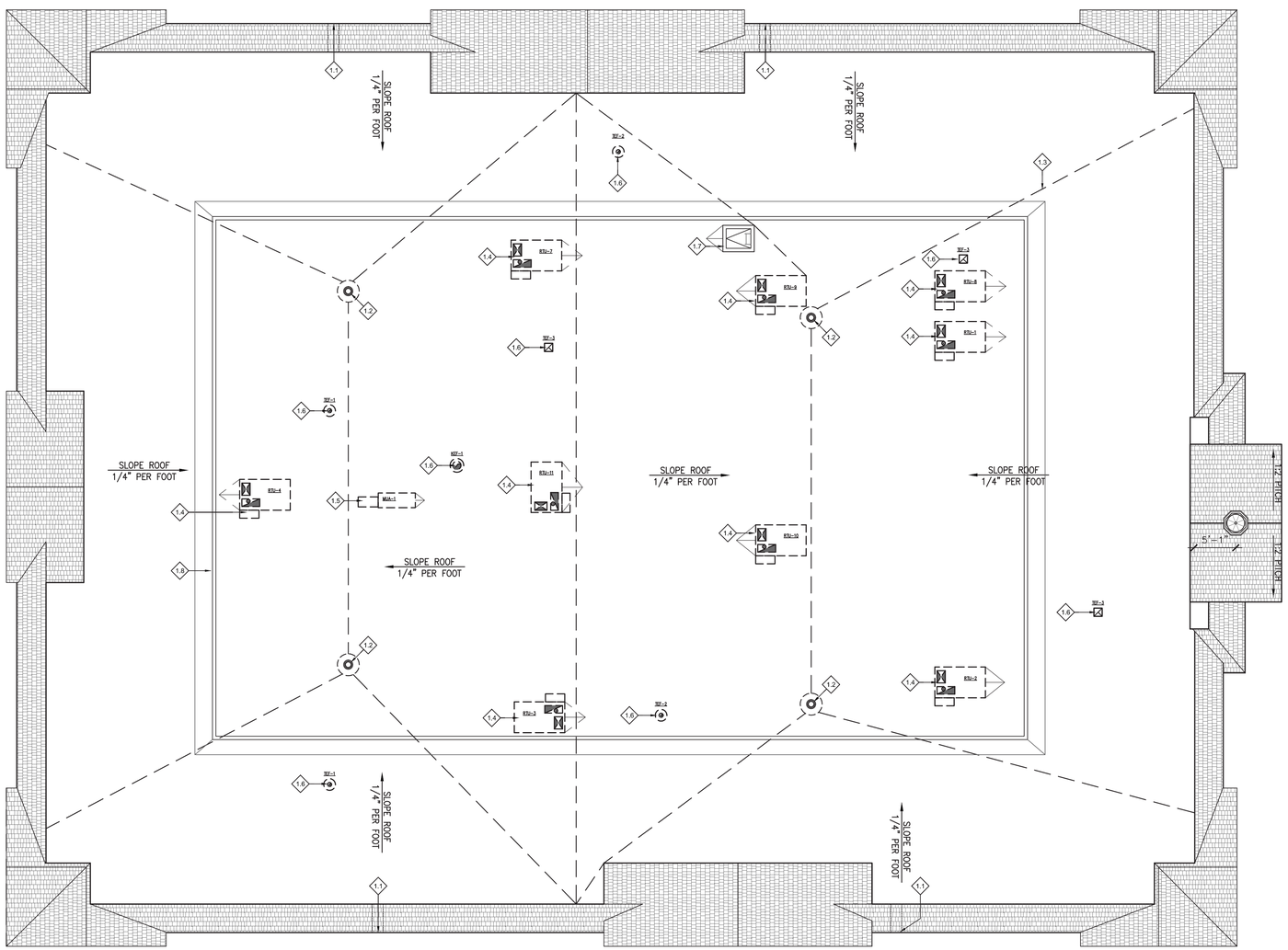
REVISION

SHEET TITLE
PHOTOMETRIC SITE PLAN

SHEET NO
A012



21 SCREENAGE SECTION
SCALE: 1/8"=1'-0"



24 ROOF PLAN
SCALE: 1/8"=1'-0"

GENERAL NOTES:

1. VERIFY EXACT LOCATION OF ROOF TOP UNITS AND OTHER ROOF EQUIPMENT WITH MECHANICAL CONTRACTOR AND INTERIOR BUILD OUT DRAWINGS PRIOR TO COMMENCING WORK
2. INSTALL RIGID INSULATION CRICKETS AT HIGH SIDE OF ALL ROOF TOP EQUIPMENT AND ROOF HATCH
3. REFER TO MECHANICAL DRAWINGS AND ARCHITECTURAL DRAWINGS FOR ROOF PENETRATION LOCATIONS, DETAILS, AND SPECIFICATIONS (REFER TO MECHANICAL DRAWINGS AND INTERIOR BUILD-OUT DRAWINGS FOR OTHER EQUIPMENT LOCATIONS
4. BASE INSULATION TO R-30 MINIMUM
5. REFER TO BUILDING AND WALL SECTIONS FOR PARAPET VENTING DETAILS WHERE APPLICABLE
6. USE TAPERED INSULATION TO PROVIDE PROPER SLOPE AS REQUIRED (1/4" PER FOOT) FOR SLOPE TO ROOF DRAIN/DOWNSPOUT LOCATIONS. TAPERED INSULATION TO SIT ON MINIMUM 3" BASE INSULATION, TYP.
7. REPORT ANY DISCREPANCIES BETWEEN STRUCTURAL, MECHANICAL, ELECTRICAL, PLUMBING, AND ARCHITECTURAL DRAWINGS IN WRITING TO ARCHITECT IMMEDIATELY, PRIOR TO CONSTRUCTION
8. SUPPLY AND RETURN TO MECHANICAL UNITS TO BE CLEAR OF OBSTRUCTIONS (FIELD VERIFY AND COORDINATE WITH STEEL CONTRACTOR PRIOR TO SETTING OF UNITS)
9. REFER TO A021 FOR MECHANICAL ROOF CURBS AND VENT PIPE FLASHING
10. ROOF EQUIPMENT SHOWN FOR REFERENCE ONLY. COORDINATE WITH MECHANICAL DRAWINGS PRIOR TO CONSTRUCTION.
11. ALL ROOF PENETRATIONS FOR EQUIPMENT TO BE FIRE STOPPED WITH A (UL) APPROVED SYSTEM AS WELL AS RATED WALLS IF APPLICABLE
12. ALL ROOF TOP UNITS MUST HAVE A (3-INCH) NUMBER AND A MATCHED NUMBER IN STORE CONTROLS.
13. ALL INTERNAL ROOF DRAINS AND DROPS TO BE COORDINATED WITH INTERIOR PARTITIONS AND PLUMBING CONNECTIONS BELOW. REFERENCE INTERIOR BUILD OUT DRAWINGS FOR INTERIOR PARTITION LOCATIONS.
14. ALL RTU'S AND ROOF MONUTED EQUIPMENT WILL BE SCREENED BY PARAPET WALL AND WILL NOT BE VISIBLE FROM BARCLAY BLVD, AS VIEWED FROM EYE LEVEL

KEYED NOTES:

INDICATED BY ◇ SYMBOL

GENERAL:

1.1 ROOF OVERFLOW OUTLET

1.2 INTERNAL ROOF DRAIN, COORDINATE WITH PARTITION BELOW

1.3 INDICATION OF ROOF SLOPE, TYP.

1.4 ROOF TOP UNIT (RTU-XX) CARRIER 48TC SERIES; MAX HEIGHT PER UNIT 3'-5 3/8" MAX HEIGHT OF HIGHEST UNIT AFF= 17'-6 1/2"

1.5 MAKE UP AIR UNIT FAN CAPTIVEAIRE MODEL #D76, MAX HEIGHT PER UNIT 3'-6 1/8", MAX HEIGHT OF HIGHEST UNIT AFF= 17'-6 1/2"

1.6 EXHAUST FAN

1.7 ROOF ACCESS HATCH

1.8 ROOF SCREENING WALL

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REVISION

SHEET TITLE
ROOF PLAN
-

SHEET NO
A020

21 TRADITIONAL ELEVATION EAST (OPTION 1)
SCALE: 1/8"=1'-0"

22 TRADITIONAL ELEVATION EAST (OPTION 2)
SCALE: 1/8"=1'-0"

23 TRADITIONAL ELEVATION EAST (OPTION 3)
SCALE: 1/8"=1'-0"

FINISH LEGEND:

STONE CLADDING
MANUFACTURER: PARAGON STONE
TYPE: CLOVEBROOK LIMESTONE
MORTAR: FLAMINGO BRIXMENT
GRAY MASONRY CEMENT

THRU-WALL BRICK
MANUFACTURER: ENDICOTT
COLOR: BORDEAUX
MORTAR: FLAMINGO BRIXMENT
OHIO RIVER MASONRY SAND C-247A

SINGLE WIDTH SHAKE SHINGLE
MANUFACTURER: DA VINCI ROOFSCAPES
COLOR: MOUNTAINBLEND

HARDIEPLANK LAP SIDING / HARDIETRIM
MANUFACTURER: JAMES HARDIE
COLOR: MONTEREY TAUPE

HARDIETRIM BOARDS
MANUFACTURER: JAMES HARDIE
COLOR: COBBLE STONE

CLASS III MATERIAL
HARDIESHINGLE SIDING
MANUFACTURER: JAMES HARDIE
COLOR: TIMBER BARK

BAHAMA SHUTTERS/ STOREFRONT
MATERIAL: MEDIUM ANODIZED BRONZE

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REVISION

SHEET TITLE

SHEET NO
A050
ELEVATIONS

21 TRADITIONAL ELEVATION NORTH (OPTION 1)
SCALE: 1/8"=1'-0"

22 TRADITIONAL ELEVATION NORTH (OPTION 2)
SCALE: 1/8"=1'-0"

23 TRADITIONAL ELEVATION NORTH (OPTION 3)
SCALE: 1/8"=1'-0"

FINISH LEGEND:

STONE CLADDING
MANUFACTURER: PARAGON STONE
TYPE: CLOVEBROOK LIMESTONE
MORTAR: FLAMINGO BRIXMENT
GRAY MASONRY CEMENT

THRU-WALL BRICK
MANUFACTURER: ENDICOTT
COLOR: BORDEAUX
MORTAR: FLAMINGO BRIXMENT
OHIO RIVER MASONRY SAND C-247A

SINGLE WIDTH SHAKE SHINGLE
MANUFACTURER: DA VINCI ROOFSCAPES
COLOR: MOUNTAINBLEND

HARDIEPLANK LAP SIDING / HARDIETRIM
MANUFACTURER: JAMES HARDIE
COLOR: MONTEREY TAUPE

HARDIETRIM BOARDS
MANUFACTURER: JAMES HARDIE
COLOR: COBBLE STONE

CLASS III MATERIAL
HARDIESHINGLE SIDING
MANUFACTURER: JAMES HARDIE
COLOR: TIMBER BARK

BAHAMA SHUTTERS/ STOREFRONT
MATERIAL: MEDIUM ANODIZED BRONZE

THE GARDNER SCHOOL
Where Learning Begins

ARCHITECT:
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FAX: 630.495.3731

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Fax (314) 373-3514
Engineering Consultant

STRUCTURAL ENGINEER:
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THE GARDNER SCHOOL
250 BARCLAY BLVD
LINCOLNSHIRE, IL 60069

REVISION

SHEET TITLE

SHEET NO
A050
ELEVATIONS

21 TRADITIONAL ELEVATION WEST (OPTION 1)
SCALE: 1/8"=1'-0"

22 TRADITIONAL ELEVATION WEST (OPTION 2)
SCALE: 1/8"=1'-0"

22 TRADITIONAL ELEVATION WEST (OPTION 3)
SCALE: 1/8"=1'-0"

FINISH LEGEND:

STONE CLADDING
MANUFACTURER: PARAGON STONE
TYPE: CLOVEBROOK LIMESTONE
MORTAR: FLAMINGO BRIXMENT
GRAY MASONRY CEMENT

THRU-WALL BRICK
MANUFACTURER: ENDICOTT
COLOR: BORDEAUX
MORTAR: FLAMINGO BRIXMENT
OHIO RIVER MASONRY SAND C-247A

SINGLE WIDTH SHAKE SHINGLE
MANUFACTURER: DA VINCI ROOFSCAPES
COLOR: MOUNTAINBLEND

HARDIEPLANK LAP SIDING / HARDIETRIM
MANUFACTURER: JAMES HARDIE
COLOR: MONTEREY TAUPE

HARDIETRIM BOARDS
MANUFACTURER: JAMES HARDIE
COLOR: COBBLE STONE

CLASS III MATERIAL
HARDIESHINGLE SIDING
MANUFACTURER: JAMES HARDIE
COLOR: TIMBER BARK

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REVISION

SHEET TITLE

SHEET NO
A050
ELEVATIONS

21 TRADITIONAL ELEVATION SOUTH (OPTION 1)
SCALE: 1/8"=1'-0"

22 TRADITIONAL ELEVATION SOUTH (OPTION 2)
SCALE: 1/8"=1'-0"

22 TRADITIONAL ELEVATION SOUTH (OPTION 3)
SCALE: 1/8"=1'-0"

FINISH LEGEND:

STONE CLADDING
MANUFACTURER: PARAGON STONE
TYPE: CLOVEBROOK LIMESTONE
MORTAR: FLAMINGO BRIXMENT
GRAY MASONRY CEMENT

THRU-WALL BRICK
MANUFACTURER: ENDICOTT
COLOR: BORDEAUX
MORTAR: FLAMINGO BRIXMENT
OHIO RIVER MASONRY SAND C-247A

SINGLE WIDTH SHAKE SHINGLE
MANUFACTURER: DA VINCI ROOFSCAPES
COLOR: MOUNTAINBLEND

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MANUFACTURER: JAMES HARDIE
COLOR: MONTEREY TAUPE

HARDIETRIM BOARDS
MANUFACTURER: JAMES HARDIE
COLOR: COBBLE STONE

CLASS III MATERIAL
HARDIESHINGLE SIDING
MANUFACTURER: JAMES HARDIE
COLOR: TIMBER BARK

BAHAMA SHUTTERS/ STOREFRONT
MATERIAL: MEDIUM ANODIZED BRONZE

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REVISION

SHEET TITLE

SHEET NO
A050
ELEVATIONS

21 EAST ELEVATION (OPTION 1)
SCALE: 1/8"=1'-0"

22 NORTH ELEVATION (OPTION 1)
SCALE: 1/8"=1'-0"

23 WEST ELEVATION (OPTION 1)
SCALE: 1/8"=1'-0"

24 SOUTH ELEVATION (OPTION 1)
SCALE: 1/8"=1'-0"

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250 BARCLAY BLVD
LINCOLNSHIRE, IL 60069

REVISION

SHEET TITLE

SHEET NO
A050
ELEVATIONS

21 EAST ELEVATION (OPTION 2)
SCALE: 1/8"=1'-0"

22 NORTH ELEVATION (OPTION 2)
SCALE: 1/8"=1'-0"

23 WEST ELEVATION (OPTION 2)
SCALE: 1/8"=1'-0"

24 SOUTH ELEVATION (OPTION 2)
SCALE: 1/8"=1'-0"

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THE GARDNER SCHOOL
250 BARCLAY BLVD
LINCOLNSHIRE, IL 60069

REVISION

SHEET TITLE

SHEET NO
A050
ELEVATIONS

21 EAST ELEVATION (OPTION 3)
SCALE: 1/8"=1'-0"

22 NORTH ELEVATION (OPTION 3)
SCALE: 1/8"=1'-0"

23 WEST ELEVATION (OPTION 3)
SCALE: 1/8"=1'-0"

24 SOUTH ELEVATION (OPTION 3)
SCALE: 1/8"=1'-0"

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250 BARCLAY BLVD
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SHEET TITLE

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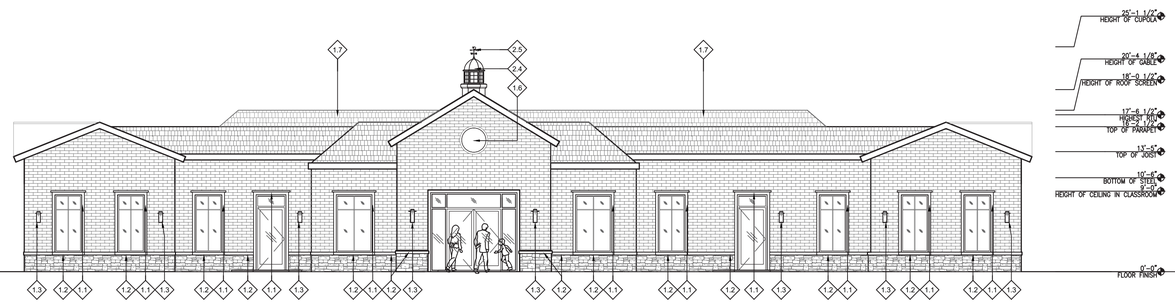
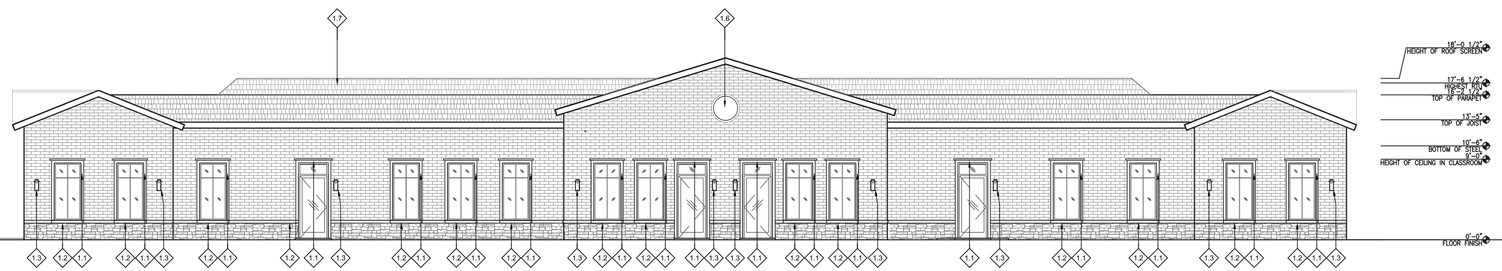
ELEVATIONS



21 *EAST ELEVATION (OPTION 1)*
SCALE: 1/8"=1'-0"



22 *NORTH ELEVATION (OPTION 1)*
SCALE: 1/8"=1'-0"

23 *WEST ELEVATION (OPTION 1)*
SCALE: 1/8"=1'-0"

24 *SOUTH ELEVATION (OPTION 1)*
SCALE: 1/8"=1'-0"

KEYED NOTES:

1.1 HARDIETRIM BOARDS
COLOR: COBBLE STONE

1.2 CAST STONE SILL, GC TO PROVIDE SAMPLE FOR APPROVAL.
MORTAR TO MATCH STONE SILL.

1.3 EXTERIOR SCONCE

1.4 EXTERIOR FLOOD LIGHTS

1.6 LOGO MEDALLION FROM THE GARDNER SCHOOL (SEE SIGNAGE SHEETS); BUILDING WALL MEDALLION IS NOT TO BE ILLUMINATED

1.7 EQUIPMENT SCREENING WALL (BEYOND)

2.4 CUPOLA PROVIDED & INSTALLED BY GC
VENDOR: WEATHERVANES OF MAINE
MODEL: OCTAGON – THE VILLA CUPOLA – 24"

2.5 WEATHERVANE PROVIDED & INSTALLED BY GC
VENDOR: WEATHERVANES OF MAINE
MODEL: #857 – AMERICAN FLAG WITH EAGLE HEAD
NOTES: PROVIDE EXTENSION ROD

FINISH LEGEND:

STONE CLADDING
MANUFACTURER: PARAGON STONE
TYPE: CLOVEBROOK LIMESTONE
MORTAR: FLAMINGO BRIXMENT
GRAY MASONRY CEMENT

THRU–WALL BRICK
MANUFACTURER: ENDICOTT
COLOR: BORDEAUX
MORTAR: FLAMINGO BRIXMENT
OHIO RIVER MASONRY SAND C–247A

SINGLE WIDTH SHAKE SHINGLE
MANUFACTURER: DA VINCI ROOFSCAPES
COLOR: MOUNTAINBLEND

HARDIEPLANK LAP SIDING / HARDIETRIM
MANUFACTURER: JAMES HARDIE
COLOR: C MONTEREY TAUPE

HARDIETRIM BOARDS
MANUFACTURER: JAMES HARDIE
COLOR: W COBBLE STONE

CLASS III MATERIAL
HARDIESHINGLE SIDING
MANUFACTURER: JAMES HARDIE
COLOR: TIMBER BARK

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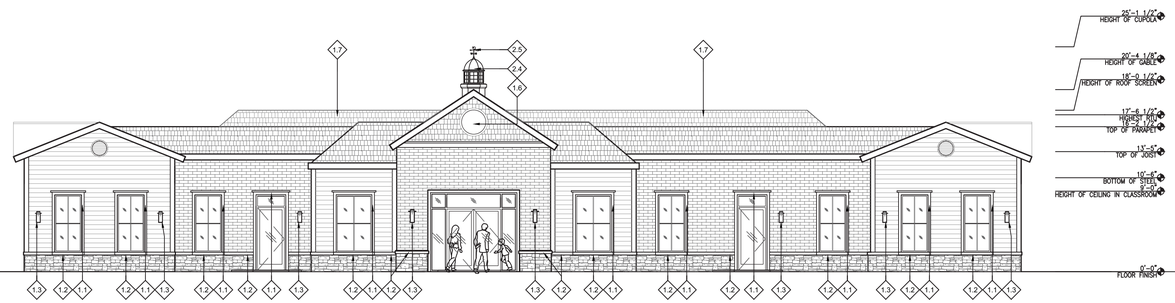
THE GARDNER SCHOOL
250 BARCLAY BLVD
LINCOLNSHIRE, IL 60069

REVISION

SHEET TITLE
BUILDING ELEVATIONS
-

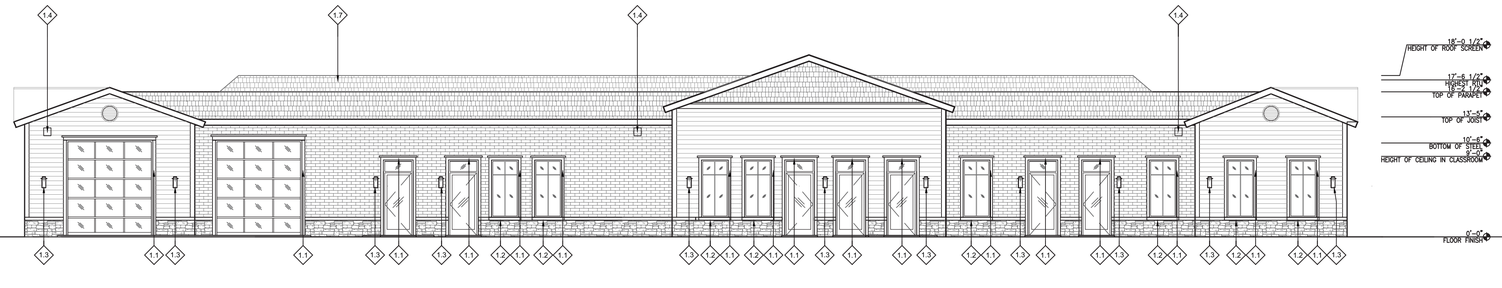
SHEET NO
A051



21 EAST ELEVATION (OPTION 2)
SCALE: 1/8"=1'-0"

22 NORTH ELEVATION (OPTION 2)
SCALE: 1/8"=1'-0"

23 WEST ELEVATION (OPTION 2)
SCALE: 1/8"=1'-0"



24 SOUTH ELEVATION (OPTION 2)
SCALE: 1/8"=1'-0"

KEYED NOTES:

1.1 HARDIETRIM BOARDS
COLOR: COBBLE STONE

1.2 CAST STONE SILL, GC TO PROVIDE SAMPLE FOR APPROVAL.
MORTAR TO MATCH STONE SILL.

1.3 EXTERIOR SCONCE

1.4 EXTERIOR FLOOD LIGHTS

1.6 LOGO MEDALLION FROM THE GARDNER SCHOOL (SEE SIGNAGE SHEETS); BUILDING WALL MEDALLION IS NOT TO BE ILLUMINATED

1.7 EQUIPMENT SCREENING WALL (BEYOND)

2.4 CUPOLA PROVIDED & INSTALLED BY GC
VENDOR: WEATHERVANES OF MAINE
MODEL: OCTAGON – THE VILLA CUPOLA – 24"

2.5 WEATHERVANE PROVIDED & INSTALLED BY GC
VENDOR: WEATHERVANES OF MAINE
MODEL: #857 – AMERICAN FLAG WITH EAGLE HEAD
NOTES: PROVIDE EXTENSION ROD

FINISH LEGEND:

STONE CLADDING
MANUFACTURER: PARAGON STONE
TYPE: CLOVEBROOK LIMESTONE
MORTAR: FLAMINGO BRIXMENT
GRAY MASONRY CEMENT

THRU-WALL BRICK
MANUFACTURER: ENDICOTT
COLOR: BORDEAUX
MORTAR: FLAMINGO BRIXMENT
OHIO RIVER MASONRY SAND C-247A

SINGLE WIDTH SHAKE SHINGLE
MANUFACTURER: DA VINCI ROOFSCAPES
COLOR: MOUNTAINBLEND

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MANUFACTURER: JAMES HARDIE
COLOR: C MONTEREY TAUPE

HARDIETRIM BOARDS
MANUFACTURER: JAMES HARDIE
COLOR: W COBBLE STONE

CLASS III MATERIAL
HARDIESHINGLE SIDING
MANUFACTURER: JAMES HARDIE
COLOR: TIMBER BARK

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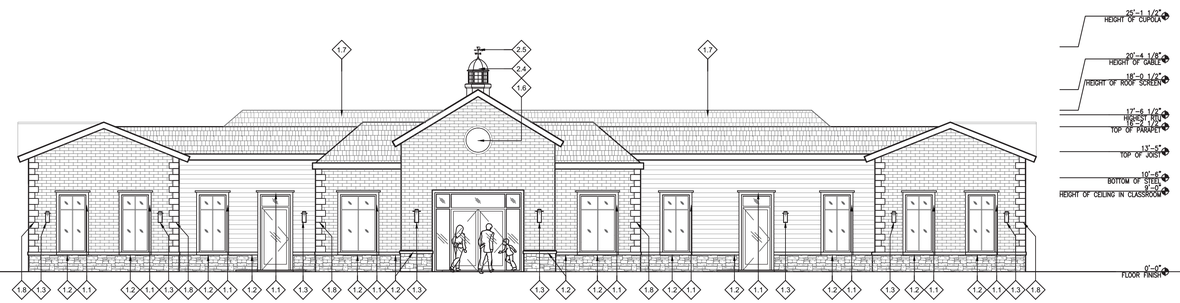
250 BARCLAY BLVD
LINCOLNSHIRE, IL 60069

REVISION

SHEET TITLE
BUILDING ELEVATIONS
-

SHEET NO
A051



21 EAST ELEVATION (OPTION 3)
SCALE: 1/8"=1'-0"

22 NORTH ELEVATION (OPTION 3)
SCALE: 1/8"=1'-0"

23 WEST ELEVATION (OPTION 3)
SCALE: 1/8"=1'-0"

24 SOUTH ELEVATION (OPTION 3)
SCALE: 1/8"=1'-0"

KEYED NOTES:

1.1 HARDIETRIM BOARDS
COLOR: COBBLE STONE

1.2 CAST STONE SILL, GC TO PROVIDE SAMPLE FOR APPROVAL. MORTAR TO MATCH STONE SILL.

1.3 EXTERIOR SCONCE

1.4 EXTERIOR FLOOD LIGHTS

1.6 LOGO MEDALLION FROM THE GARDNER SCHOOL (SEE SIGNAGE SHEETS); BUILDING WALL MEDALLION IS NOT TO BE ILLUMINATED

1.7 EQUIPMENT SCREENING WALL (BEYOND)

1.8 ACCENTING ARCHITECTURAL QUOINS

2.4 CUPOLA PROVIDED & INSTALLED BY GC
VENDOR: WEATHERVANES OF MAINE
MODEL: OCTAGON – THE VILLA CUPOLA – 24"

2.5 WEATHERVANE PROVIDED & INSTALLED BY GC
VENDOR: WEATHERVANES OF MAINE
MODEL: #857 – AMERICAN FLAG WITH EAGLE HEAD
NOTES: PROVIDE EXTENSION ROD

FINISH LEGEND:

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MANUFACTURER: ENDICOTT
COLOR: BORDEAUX
MORTAR: FLAMINGO BRIXMENT
OHIO RIVER MASONRY SAND C–247A

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COLOR: C MONTEREY TAUPE

HARDIETRIM BOARDS
MANUFACTURER: JAMES HARDIE
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SHEET TITLE
BUILDING ELEVATIONS
-

SHEET NO
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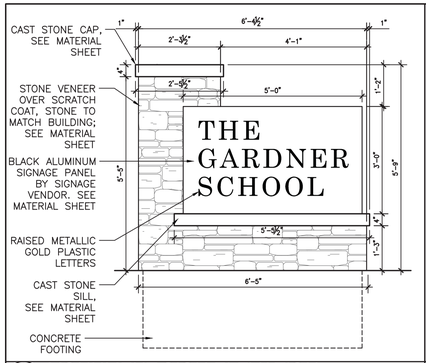
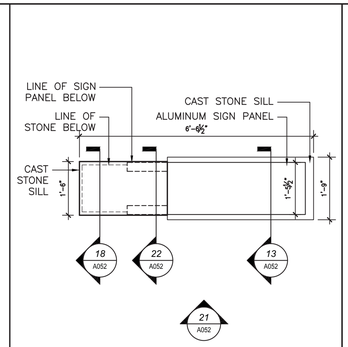
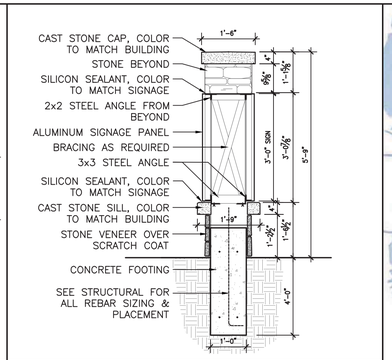


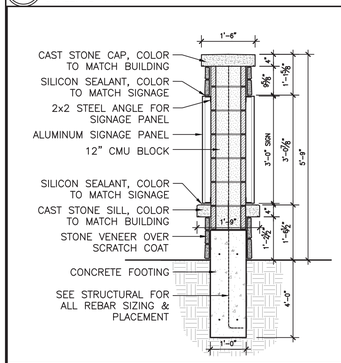
21 MONUMENT SIGN ELEVATION
SCALE: 1/2"=1'-0"



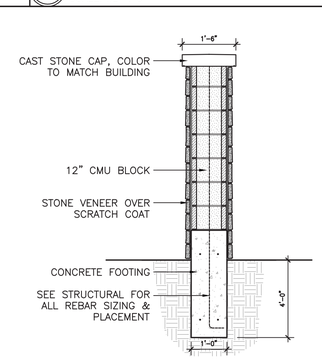
17 MONUMENT SIGN PLAN
SCALE: 1/2"=1'-0"



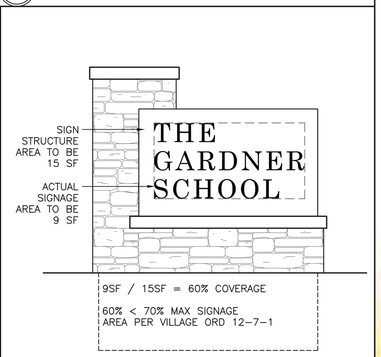
13 MONUMENT SIGN SECTION
SCALE: 1/2"=1'-0"



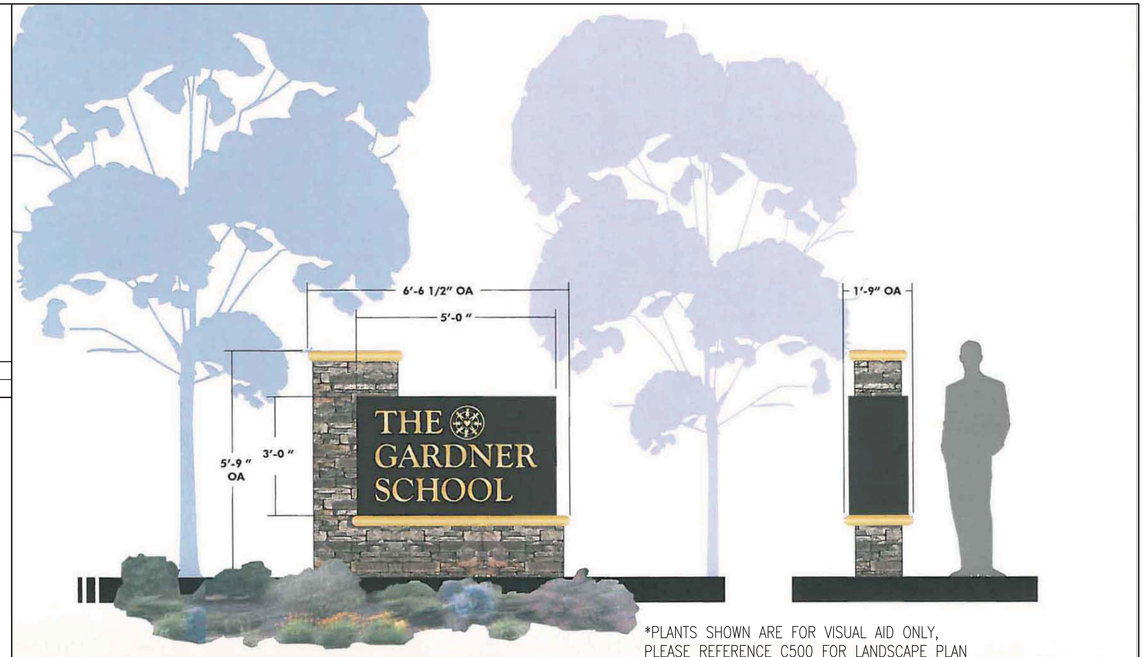
22 MONUMENT SIGN SECTION
SCALE: 1/2"=1'-0"



18 MONUMENT SIGN SECTION
SCALE: 1/2"=1'-0"



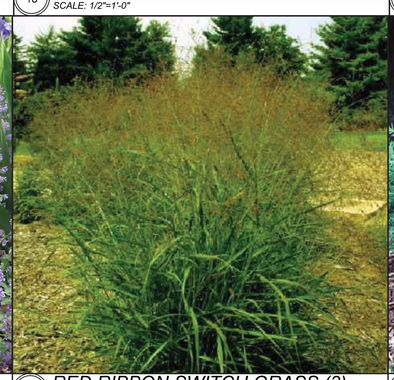
14 SIGN COMPLIANCE CALCULATION
SCALE: 1/2"=1'-0"



*PLANTS SHOWN ARE FOR VISUAL AID ONLY, PLEASE REFERENCE C500 FOR LANDSCAPE PLAN

A NEW DOUBLE FACED GROUND ILLUMINATED MONUMENT DISPLAY
SCALE 1/2"=1'-0"
USE STANDARD ALUMINUM FACED CONSTRUCTION WITH ANGLE FRAME AND STEEL PIPE SUPPORT INTO CONCRETE FOOTING,
GROUND UPLIGHTING BY OTHERS (NIC)
GRAPHICS USE HDU WITH BEVELED FACES PAINTED MAP BRILLIANT GOLD.

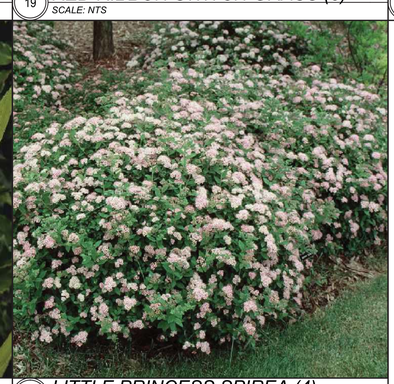
23 WALKER'S LOW CATMINT (14)
SCALE: NTS



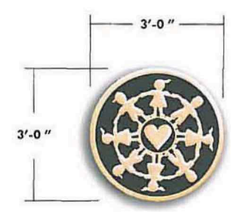
19 RED RIBBON SWITCH GRASS (3)
SCALE: NTS

15 DENSE YEW (6)
SCALE: NTS

23 HAPPY RETURNS DAYLILY (5)
SCALE: NTS



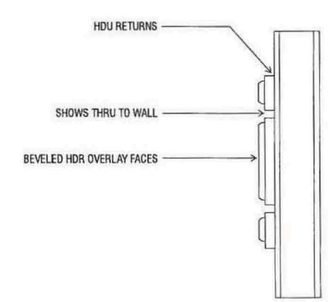
19 LITTLE PRINCESS SPIREA (4)
SCALE: NTS



LOGO DETAIL

B NEW SINGLE FACED NON ILLUMINATED DISPLAY, SCALE 1/2"=1'-0"
USE TWO LAYERS OF 1" DEEP HDU WITH MAP SATIN FINISH,
PAINT 1" HDU RETURNS AND CONTOURS DURONODIC BRONZE,
USE 1" HDU FACE OVERLAYS WITH PRISMATIC CUT FACES,
PAINT FACES BRILLIANT GOLD,
INSTALL FLUSH TO MOUNTING SURFACE.

*BUILDING MEDALLION IS NOT TO BE ILLUMINATED



NON ILLUM HDU WITH BEVELED FACES AND CONTOUR FLANGE

12 MONUMENT SIGNAGE / LOGO MEDALLION DETAILS
SCALE: NTS

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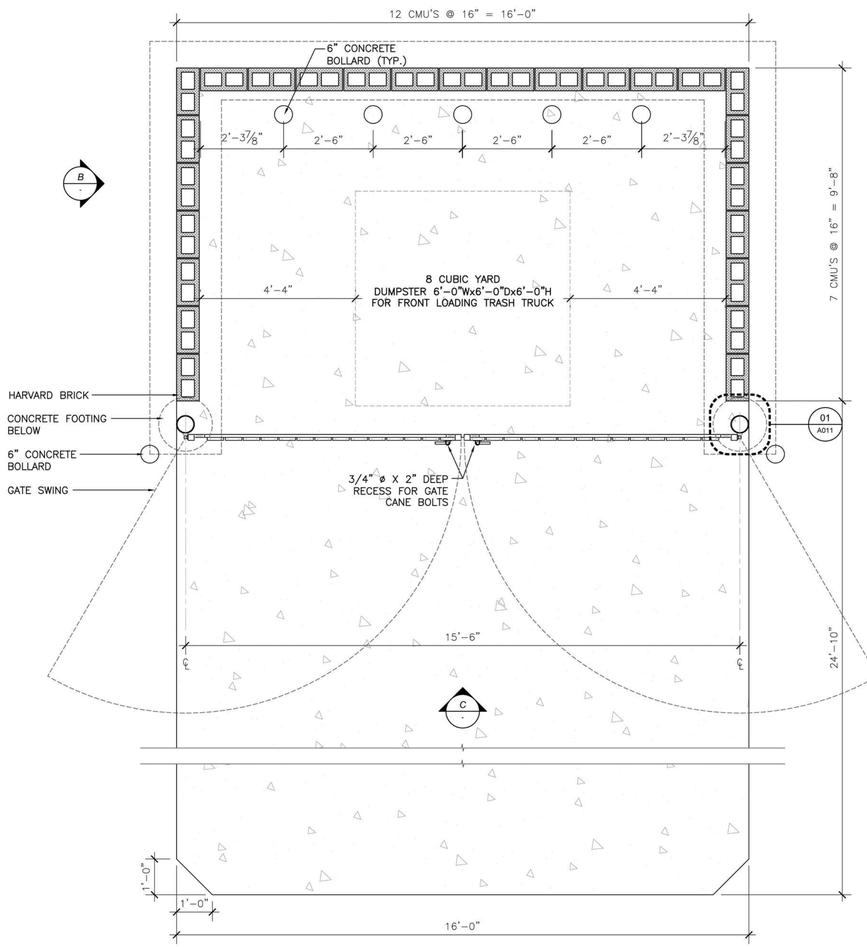
LINCOLNSHIRE, IL 60069

REVISION

SHEET TITLE
SIGNAGE DETAIL
-

SHEET NO
A052

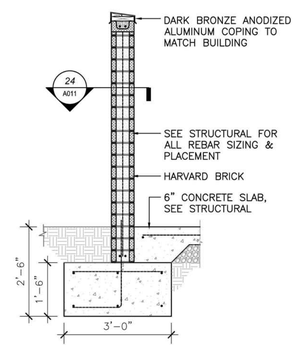


PLAN – FRONT LOADING

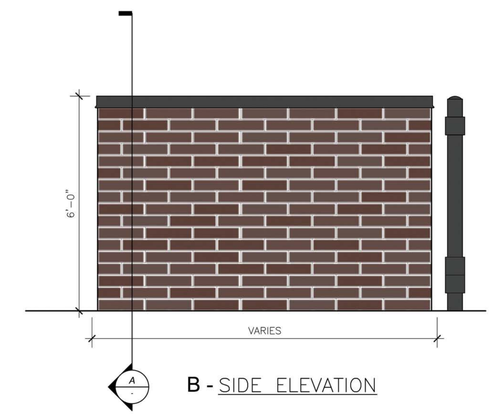
COORDINATE CLEARANCES AND DUMPSTER SIZES WITH LOCAL TRASH COMPANY

24 DUMPSTER ENCLOSURE FLOOR PLAN

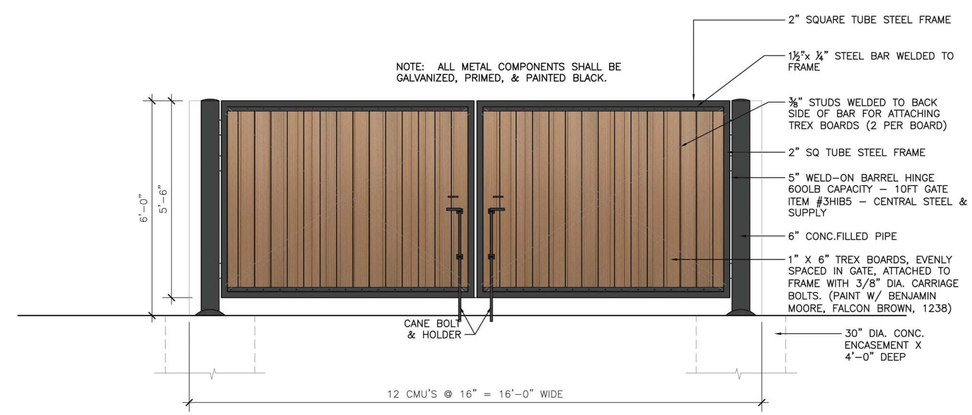
SCALE: 1/2"=1'-0"



A - SECTION



B - SIDE ELEVATION



C - FRONT ELEVATION

12 DUMPSTER ENCLOSURE ELEVATIONS

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

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REVISION

PRELIMINARY VILLAGE BOARD SUBMITTAL	05/26/2016
VILLAGE ZONING BOARD SUBMITTAL	08/29/2016
VILLAGE ARCHITECTURAL REVIEW BOARD	09/15/2016

SHEET TITLE

DUMPSTER ENCLOSURE

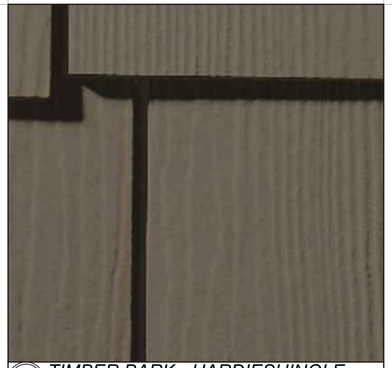
-

SHEET NO

A053

22 *MEDIUM ANNODIZED BRONZE*
SCALE: N.T.S.

MEDIUM ANODIZED BRONZE



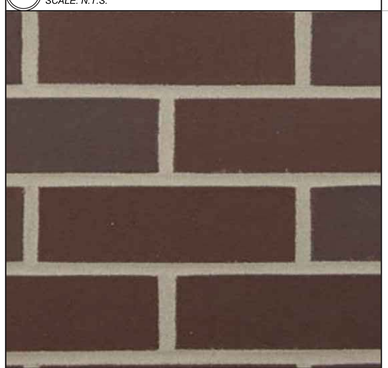
14 *TIMBER BARK - HARDIESHINGLE*
SCALE: N.T.S.

CLASS III MATERIAL
HARDIESHINGLE SIDING
MANUFACTURER: JAMES HARDIE
COLOR: TIMBER BARK

06 *BLACK ALUMINUM*
SCALE: N.T.S.

BLACK ALUMINUM

(FOR SIGNAGE)



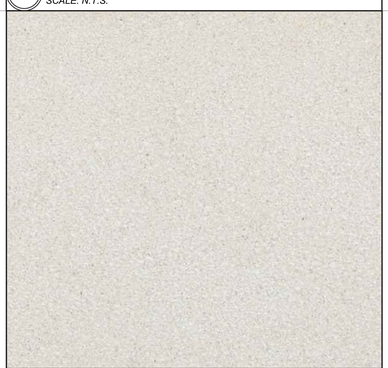
23 *BORDEAUX ENDICOTT BRICK*
SCALE: N.T.S.

THRU-WALL BRICK
MANUFACTURER: ENDICOTT
COLOR: BORDEAUX
MORTAR: FLAMINGO BRIXMENT
OHIO RIVER MASONRY SAND C-247A

15 *MONTEREY TAUPE - HARDIEPLANK*
SCALE: N.T.S.

HARDIEPLANK LAP SIDING / HARDIETRIM
MANUFACTURER: JAMES HARDIE

COLOR: MONTEREY TAUPE



07 *CAST STONE SILL*
SCALE: N.T.S.

CAST STONE SILL
COLOR: LEMON PEPPER

24 *CLOVEBROOK LIMESTONE*
SCALE: N.T.S.

STONE CLADDING
MANUFACTURER: PARAGON STONE
TYPE: CLOVEBROOK LIMESTONE
MORTAR: FLAMINGO BRIXMENT
GRAY MASONRY CEMENT

16 *TAUPE - HARDIEPLANK*
SCALE: N.T.S.

HARDIETRIM BOARDS
MANUFACTURER: JAMES HARDIE

COLOR: COBBLE STONE

08 *MOUNTAIN SINGLE SHAKE*
SCALE: N.T.S.

SINGLE WIDTH SHAKE SHINGLE
MANUFACTURER: DA VINCI ROOFSCAPES
COLOR: MOUNTAINBLEND

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REVISION

SHEET TITLE

MATERIAL BOARD
-

SHEET NO

A054

PARTITIONS LEGEND:

- NEW CONSTRUCTION – EXTERIOR WALL
- NEW CONSTRUCTION – INTERIOR PARTITION
- NEW CONSTRUCTION – INTERIOR LOW PARTITION
- NEW CONSTRUCTION – INTERIOR PARTITION w/ R-11 SOUNDBATT INSULATION

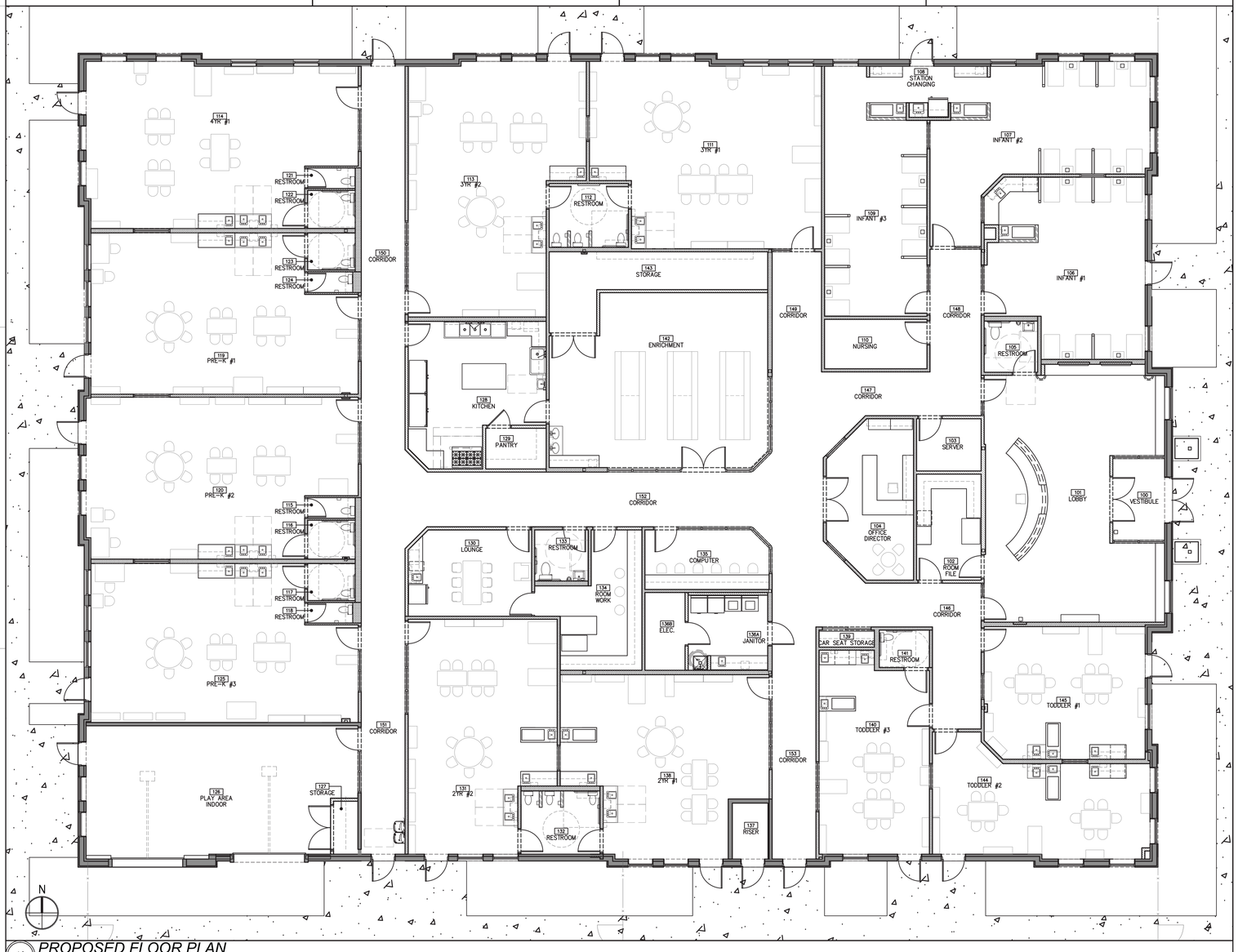
SYMBOLS LEGEND:

- X — WINDOW TAG
- XXX — DOOR TAG
- XX / XXX — DETAIL NUMBER / SHEET NUMBER
- XX — PARTITION TYPE
- XX — KEYED NOTE

KEYED NOTES:

1.2 –

INDICATED BY ◇ SYMBOL



16 PROPOSED FLOOR PLAN
SCALE: 1/8"=1'-0"

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REVISION

SHEET TITLE
PROPOSED FLOOR PLAN

SHEET NO
A101

OPTION 1 EAST ELEVATION

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The Gardner School

An Academically Focused Preschool
Ages 6 Weeks to 5 Years

OPTION 1 EAST ELEVATION

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Ages 6 Weeks to 5 Years

OPTION 2 EAST ELEVATION

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SITE IMPROVEMENT PLANS
THE GARDNER SCHOOL

250 BARCLAY BOULEVARD
LINCOLNSHIRE, ILLINOIS
JUNE 2016

VIKING DEVELOPMENT

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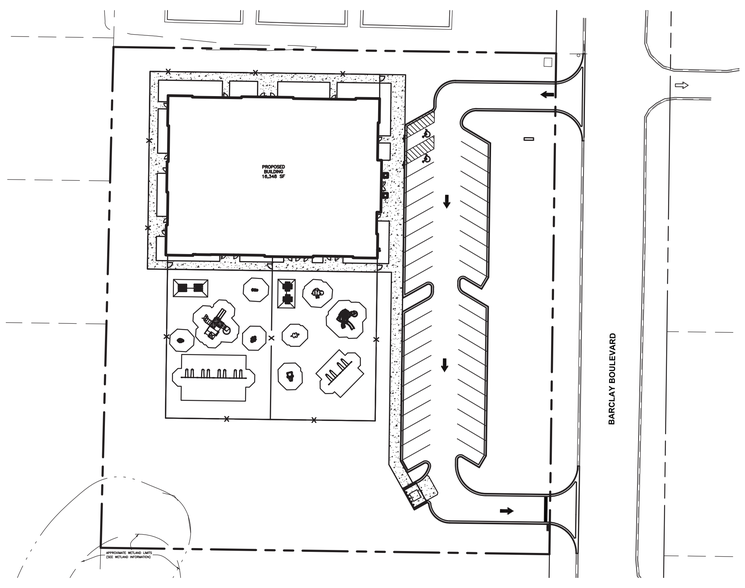
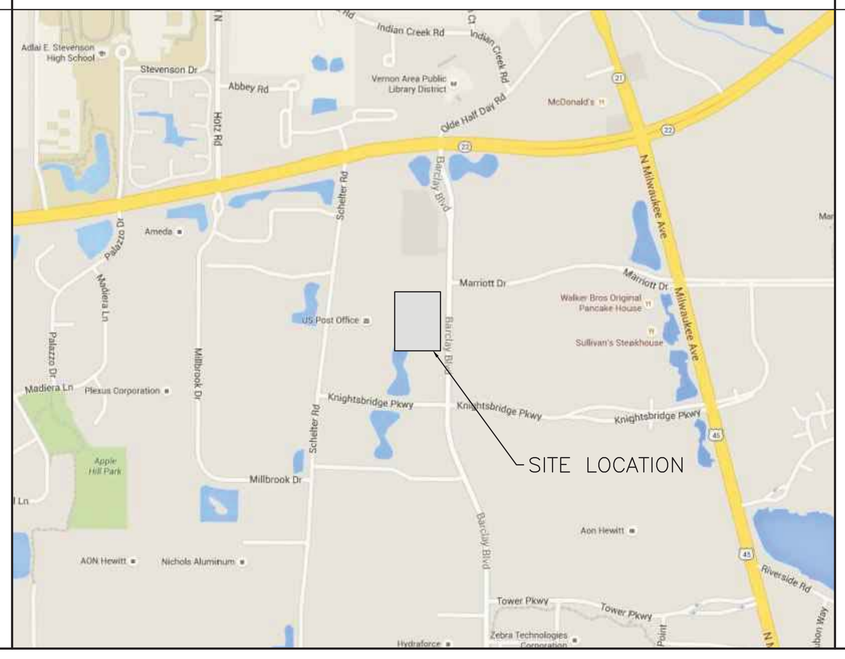
SITE PLAN



VICINITY MAP



SHEET INDEX

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●	–	08/31/16	C100	EXISTING CONDITIONS/DEMOLITION PLAN
●	–	08/31/16	C200	SITE PLAN
●	–	08/31/16	C300	GRADING PLAN
●	–	08/31/16	C301	EROSION CONTROL PLAN
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●	–	08/31/16	C600	DETAILS
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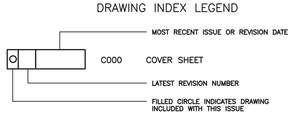
DRAWING INDEX LEGEND



No.	DATE	REVISION
	08/31/16	ISSUED FOR ARCHITECTURAL REVIEW BOARD
	07/25/16	PER DRT COMMENTS

PROJECT No.: 076561

SEAL

C000

Layout Tab Name: C000 COVER, Images: vicmap.jpg: lincolnshire aerial.jpg: MAP.png: , Xrefs: 076561-X.dwg; 076561-P.dwg
Last Saved By:Iwaniuk, 9/1/2016 10:31:03 AM
G:\DE\Clients\Viking\076561 The Gardner School - Lincolnshire, IL\4.0 Disciplines\Civil\Cadd\Cd\076561-C000-COV.dwg Plotted By:Iwaniuk, Brian Plotted:September 1, 2016, 10:37:12 AM

GENERAL NOTES

1. THE CONTRACTOR SHALL VERIFY ALL ELEVATIONS PRIOR TO THE START OF WORK. ANY DISCREPANCIES FOUND SHALL BE IMMEDIATELY REPORTED TO THE ENGINEER AND NO FURTHER WORK SHALL BE PERFORMED UNTIL THE DISCREPANCY IS CHECKED AND CORRECTED BY THE ENGINEER.
2. THE ACCURACY AND COMPLETE INCLUSION OF THE LOCATIONS OF EXISTING UTILITIES IS NOT GUARANTEED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL PRIVATE AND PUBLIC UTILITIES EVEN THOUGH THEY MAY NOT BE SHOWN ON THE PLANS. ANY UTILITY THAT IS DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE ENGINEER, PROJECT OWNER AND UTILITY OWNER, BY THE CONTRACTOR AT HIS OWN EXPENSE.
3. ALL LOT IRONS DAMAGED OR REMOVED DURING CONSTRUCTION OF THIS PROJECT SHALL BE REPLACED BY THE ENGINEER AND SAID COST OF REPLACEMENT SHALL BE PAID BY THE CONTRACTOR.
4. ALL SITE IMPROVEMENTS, INCLUDING STORM WATER DRAINAGE (BUT NOT WATER MAIN AND SANITARY SEWER) SHALL BE CONSTRUCTED IN ACCORDANCE WITH ALL APPLICABLE SECTIONS OF THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION OF THE STATE OF ILLINOIS, DEPARTMENT OF TRANSPORTATION", ADOPTED APRIL 1, 2016 WITH ALL SUBSEQUENT SUPPLEMENTS, AND THE VILLAGE OF LINCOLNSHIRE. IN CASE OF CONFLICT, THE LATTER SHALL TAKE PRECEDENCE.
5. ALL SEWER AND WATER MAIN CONSTRUCTION SHALL CONFORM TO THE "STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS", LATEST EDITION, UNLESS OTHERWISE NOTED.
6. ALL SEWERS AND WATER MAINS WHICH FALL WITHIN THREE FEET OF EXISTING OR PROPOSED PAVED AREAS SHALL BE BACKFILLED WITH AGGREGATE CA-6 OR OTHER APPROVED GRANULAR MATERIAL. THE GRAVEL SHALL EXTEND A DISTANCE OF 2'-0" BEYOND THE PAVEMENT AND EXTEND DOWN FROM THAT POINT AT A 1:1 SLOPE, AWAY FROM THE PAVEMENT.
7. ALL NEW AND EXISTING STRUCTURES ON SITE AND IN AREAS TO BE DISTURBED BY CONSTRUCTION SHALL BE ADJUSTED TO FINISH GRADE PRIOR TO FINAL INSPECTION OF THE WORK. ADJUSTMENTS UPWARD SHALL BE MADE USING PRECAST CONCRETE ADJUSTMENT RINGS, BUT NO MORE THAN 8" OF RINGS SHALL BE USED. IF THE TOTAL HEIGHT OF ALL ADJUSTMENTS EXCEEDS 8", THEN ADJUSTMENTS SHALL BE MADE BY INTERCHANGING AND/OR ADDING/REMOVING COMPLETE BARREL SECTIONS TO ACHIEVE DESIRED ELEVATIONS.
8. WHENEVER A SEWER CROSSES UNDER A WATER MAIN, THE MINIMUM VERTICAL DISTANCE FROM THE TOP OF THE SEWER TO THE BOTTOM OF THE WATER MAIN SHALL BE 18 INCHES. FURTHERMORE, A MINIMUM HORIZONTAL DISTANCE OF 10 FEET BETWEEN ALL SEWERS AND SERVICES AND WATER MAINS SHALL BE MAINTAINED UNLESS: THE SEWER IS LAID IN A SEPARATE TRENCH, KEEPING A MINIMUM 18" VERTICAL SEPARATION; OR THE SEWER IS LAID IN A TRENCH WITH THE WATER MAIN LOCATED AT THE OPPOSITE SIDE ON A BENCH OF UNDISTURBED EARTH KEEPING A MINIMUM OF 18" VERTICAL SEPARATION. IF EITHER THE VERTICAL OR HORIZONTAL DISTANCES DESCRIBED ABOVE CANNOT BE MAINTAINED, OR THE SEWER CROSSES ABOVE THE WATER MAIN, THEN WITHIN A DISTANCE OF 10 FEET ON EITHER SIDE OF THE WATER MAIN, THE SEWER PIPES SHALL BE CAST IRON OR DUCTILE IRON.
9. PERMITS AND LICENSES OF A TEMPORARY NATURE NECESSARY FOR THE PROSECUTION OF THE WORK SHALL BE SECURED AND PAID FOR BY THE CONTRACTOR. PRIOR TO SUBMITTING HIS BID, THE CONTRACTOR SHALL CALL THE ATTENTION OF THE ENGINEER TO ANY MATERIAL OR EQUIPMENT HE DEEMS INADEQUATE AND TO ANY ITEM OF WORK OMITTED.
10. ALL EXISTING SEPTIC SYSTEMS ARE TO BE ABANDONED. ABANDONED TANKS ARE BE FILLED TO OR REMOVED BY A LICENSED SEPTIC SYSTEM CONTRACTOR. CERTIFICATES SHALL BE FURNISHED, SUBMITTED AND APPROVED BY THE APPROPRIATE HEALTH DEPARTMENT PRIOR TO ACCEPTANCE OF THE WORK.
11. A LICENSED WELL DRILLER SHALL CAP ALL WELLS IN ACCORDANCE WITH STATE AND COUNTY REGULATIONS. CERTIFICATES SHALL BE FURNISHED, SUBMITTED AND APPROVED BY THE APPROPRIATE HEALTH DEPARTMENT PRIOR TO ACCEPTANCE OF THE WORK.
12. THE PROPOSED DEVELOPMENT SHALL CONFORM TO ALL STANDARDS OF THE ILLINOIS DEPARTMENT OF CHILD & FAMILY SERVICES (IDCFS).

PAVEMENT & CONCRETE CONSTRUCTION

1. ALL EXISTING PAVEMENT OR CONCRETE TO BE REMOVED SHALL BE SAWCUT ALONG LIMITS OF PROPOSED REMOVAL BEFORE REMOVAL OPERATION BEGINS.
2. ALL CURBS CONSTRUCTED OR REPLACED OVER A UTILITY TRENCH SHALL BE REINFORCED WITH TWO #4 REBARS FOR A LENGTH OF 20 FEET CENTERED OVER THE TRENCH. SIDEWALKS SHALL BE TREATED IN THE SAME MANNER USING THREE #6 REBARS.
3. CONTRACTION JOINTS SHALL BE CONSTRUCTED AT TEN (10) FOOT MINIMUM INTERVALS. THE GRANULAR CURB BASE SHALL BE A MINIMUM OF THREE (3) INCHES OF 3/8" TO 3/4" OPEN GRADED GRANULAR MATERIAL TO ALLOW FOR PROPER SUBGRADE DRAINAGE. COMPACTED CURB SUBGRADE SHALL BE SHAPED PARALLEL TO THE CURB FLOW LINE AND POSITIVELY DRAINED TO THE INLETS AND CATCH BASINS. ALL PAVEMENTS SHALL BE CONSTRUCTED ON A SELECT COMPACTED SUBGRADE, GRADED PARALLEL TO THE FINISH SURFACE.
4. EXPANSION JOINTS SHALL BE REQUIRED AT ALL POINTS OF CURVATURE, AT BOTH SIDES OF ALL DRAINAGE STRUCTURES AND ALL LOCATIONS WHERE THE SIDEWALK ABUTS THE CONCRETE CURB AND GUTTER.
5. CURB AND GUTTER SHALL BE CONSTRUCTED AND TIED INTO EXISTING P.C.C. PAVEMENT IN ACCORDANCE WITH I.D.O.T. STANDARDS 606001 AND 420001
6. ALL CONCRETE CURB AND GUTTER SHALL BE SEALED WITH W.R. MEADOWS T1A44 SEALANT OR APPROVED EQUAL, IMMEDIATELY AFTER SEVEN (7) DAYS OF CURING AT A RATE OF 300 S.F. PER GALLON UTILIZING A SPRAY APPLICATION. THE SURFACE MUST BE THOROUGHLY CLEAN AND DRY OF APPLICATION.

GRADING NOTES

1. CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES HAVING UNDERGROUND UTILITIES ON SITE OR IN RIGHT-OF-WAY PRIOR TO EXCAVATION. CONTRACTOR SHALL CONTACT UTILITY LOCATING COMPANY AND LOCATE ALL UTILITIES PRIOR TO GRADING START.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UNDERGROUND OR SURFACE UTILITIES EVEN THOUGH THEY MAY NOT BE SHOWN ON THE PLANS. ANY UTILITY THAT IS DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED TO THE SATISFACTION OF THE ENGINEER AND THE OWNER, OR REPLACED.
3. SITE GRADING SHALL NOT PROCEED UNTIL EROSION CONTROL MEASURES HAVE BEEN INSTALLED.
4. CONTRACTOR TO PERFORM PAVEMENT RESTORATION FOR ALL UTILITY INSTALLATION AND RELOCATION WITHIN PAVEMENT LIMITS.
5. THE GRADING AND CONSTRUCTION OF STREET AND PARKING LOT IMPROVEMENTS SHALL NOT CAUSE PONDING OF STORM WATER. ALL AREAS ADJACENT TO THESE IMPROVEMENTS SHALL BE GRADED TO ALLOW POSITIVE DRAINAGE
6. STREET PAVING AND CURBS TO REMAIN SHALL BE PROTECTED FROM DAMAGE, AND IF DAMAGED SHALL BE REPLACED TO MEET STATE AND LOCAL STANDARDS AND SPECIFICATIONS ON MATERIAL AND WORKMANSHIP.
7. UNSUITABLE MATERIAL ENCOUNTERED IN EXCAVATION FOR STREETS, BUILDING PADS AND PARKING LOTS SHALL BE REMOVED AND REPLACED WITH SUITABLE MATERIAL.
8. THE SOIL INVESTIGATION REPORT FOR THE SITE, AND ALL ADDENDA THERETO, ARE SUPPORTING DOCUMENTS TO THE PERMIT FOR THE PROJECT. THE RECOMMENDATIONS AS STATED IN THE REPORT SHALL BE FOLLOWED BY ALL CONTRACTORS.
9. CONTRACTOR SHALL FIELD VERIFY SITE CONDITIONS, ELEVATIONS, SIZES, AND MATERIAL OF ALL EXISTING UTILITIES WHICH ARE TO BE TAPPED OR EXTENDED ON SITE. ANY DEVIATIONS FROM PLAN INFORMATION SHALL BE PROVIDED TO THE ENGINEER IN WRITING WITHIN 24 HOURS AND PRIOR TO THE START OF CONSTRUCTION ON THAT IMPROVEMENT. SHOULD THE CONTRACTOR START WORK WITHOUT NOTIFICATION TO THE ENGINEER OF ANY DISCREPANCIES, HE WILL ASSUME ALL RESPONSIBILITY OF THE WORK NECESSARY TO COMPLETE THE PROJECT.
10. ALL FIELD TILE ENCOUNTERED SHALL BE REPLACED AND/OR CONNECTED TO THE STORM SEWER SYSTEM AND LOCATED AND IDENTIFIED ON RECORD PLANS BY THE CONTRACTOR.
11. ALL STORM DRAINAGE CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH THE VILLAGE OF LINCOLNSHIRE AND THE ILLINOIS DEPARTMENT OF TRANSPORTATION.
   - 11.1. STATE DEPARTMENT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION.
   - 11.2. STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN STATE, LATEST EDITION.
   - 11.3. LOCAL MUNICIPAL REQUIREMENTS.
12. ROOF DRAINS, FOUNDATION DRAINS, AND OTHER CLEAN WATER CONNECTIONS TO THE SANITARY SEWER SYSTEM ARE PROHIBITED.
13. PROPER TRANSITION TO BE PROVIDED FROM END OF PROPOSED STORM SEWERS, DITCHES, ROADWAY, ETC. TO EXISTING GRADE. RESTORATION OF DISTURBED AREAS OUTSIDE OF THE CONSTRUCTION LIMITS IS THE RESPONSIBILITY OF THE CONTRACTOR. AREAS SHALL BE RESTORED TO PRECONSTRUCTION CONDITIONS TO THE SATISFACTION OF THE OWNER.
14. CONTRACTOR TO ADJUST ALL EXISTING UTILITY STRUCTURES TO PROPOSED GRADE.
15. INVERTS AT BOTTOM OF MANHOLES AND CATCH BASINS MUST BE CHANNELIZED.
16. FINGER DRAINS TO BE LOCATED AT ALL CATCH BASINS PER DETAIL, AND INSTALLED AS SOON AS SUBGRADE ELEVATIONS ARE ACHIEVED.
17. ALL ROOF LATERALS OUT OF THE BUILDING SHALL BE 6" PVC SDR 35 UNLESS OTHERWISE NOTED.
18. PROVIDE UNDERDRAINS FROM SEEPS OR SPRINGS ENCOUNTERED. EXTEND TO STORM SEWER SYSTEM OR DAYLIGHT AT THE BOTTOM OF THE FILL SLOPE.
19. GRADES SHOWN ARE FINISHED GRADES. LANDSCAPED AREAS TO HAVE MINIMUM 6 INCHES OF TOPSOIL RESPREAD.
20. TYPE 11 GRATES TO BE CURB INLETS AND TYPE 1 GRATES TO BE ROUND MANHOLE LIDS.
21. CONTRACTOR TO ENSURE POSITIVE DRAINAGE AROUND ISLANDS.
22. IN CASE OF ANY CONFLICT, MUNICIPAL SPECIFICATIONS, STANDARDS, AND DETAILS SHALL BE FOLLOWED.
23. ALL DETENTION PONDS SHALL HAVE A TWO FOOT THICK CLAY LINER BETWEEN THE BOTTOM OF THE POND AND THE NORMAL WATER LEVEL.
24. ALL FLARED END SECTIONS SHALL HAVE A GRATE INSTALLED.
25. ALL STORM SEWER FRAMES AND GRATES/LIDS SHALL BE MARKED WITH "DUMP NO WASTE" AND "DRAINS TO CREEK".
26. THE SLOPE BETWEEN TWO ELEVATIONS SHOWN ON THE GRADING PLAN MUST BE UNIFORM, AND THERE SHALL NOT BE ANY CHANGE IN SLOPE OR REVERSAL OF SLOPE BETWEEN ANY TWO MARKED POINTS.
27. ALL OPEN LID GRATES IN GRASSY AREAS TO BE BEEHIVE STYLE GRATES, (IDOT TY. 8).
28. CURB STRUCTURE RIM GRADES LISTED AT TOP OF CURB ELEVATION.
29. SPOT ELEVATIONS AT TIE IN TO EXISTING CURB OR PAVEMENT ARE APPROXIMATE, CONTRACTOR TO MATCH EXISTING ELEVATIONS.

WATER NOTES

1. ALL WATER MAIN SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE "STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS", LATEST EDITION, THE NOTES ON THE PLANS, AND IN ACCORDANCE WITH THE CODES AND ORDINANCES OF THE VILLAGE OF LINCOLNSHIRE.
2. ALL WATER SERVICES 2 INCHES AND SMALLER SHALL BE TYPE K-TYPE COPPER WITH NO COUPLINGS OTHER THAN FOR CURB STOPS TO BE INCLUDED IN THE INSTALLATION.
3. ALL WATER MAINS 3 INCHES AND LARGER SHALL BE DUCTILE IRON PIPE CLASS 52 WITH EITHER MECHANICAL OR PUSH-ON JOINTS AND SHALL CONFORM TO ANSI A21.51, AWWA C151 AND ANSI A21.11, AWWA C111.
4. ALL PIPE AND FITTINGS SHALL BE CEMENT LINED IN ACCORDANCE WITH ANSI/AWWA.
5. ALL DIP WATER MAIN AND FITTINGS TO BE ENCASED IN 8-MIL POLYETHYLENE.
6. ALL FIRE HYDRANTS, VALVE TEES, AND BENDS MUST BE BRACED BY THE USED OF THRUST BLOCKING. PIPE JOINTS SHALL BE IN CONFORMANCE TO ANSI A21.11 AND FITTINGS IN CONFORMANCE TO ANSI A21.10, A21.51 AND AWWA C-151. WHERE NECESSARY MEGALUGS SHOULD BE USED TO RESTRAIN THE JOINTS IN LIEU OF OR IN ADDITION TO THRUST BLOCKING.
7. ALL WATER MAIN IS REQUIRED TO HAVE A MINIMUM DEPTH OF 5.5' MEASURED FROM PROPOSED FINISHED GRADE TO TOP OF PIPE.
8. ALL WATER MAIN MUST BE A MINIMUM OF 10' HORIZONTALLY FROM ANY SEWER LINES. IF THE NEW WATER MAIN IS PLACED WITHIN 10' OF AN EXISTING WATER SUPPLY, THE CONTRACTOR MUST FOLLOW ALL SPECIFICATIONS AND DETAILS FOUND IN "STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS". THE SAME SEPARATION ALSO APPLIES TO ALL SEWER STRUCTURES.
9. ALL WATER MAINS WILL BE STERILIZED AND BACTERIOLOGICAL TESTS PERFORMED, IN ACCORDANCE WITH AWWA STANDARD C600, C601, AND C603 SPECIFICATION FOR DISINFECTING WATER MAINS, AND WILL NOT BE PUT IN SERVICE UNTIL A SATISFACTORY REPORT IS IN EVIDENCE. WHEN CHLORINATING WATER MAINS TERMINATING INTO BUILDINGS, NO WATER SAMPLES SHALL BE TAKEN FROM TEMPORARY OR UNCOMPLETED CONNECTIONS.
10. PRESSURE CONNECTIONS SHALL BE MADE WITH A SPLIT CASE TAPPING SLEEVE. THE VALVE ADJACENT TO THE PRESSURE TAP SHALL BE PLACED INSIDE A VALVE VAULT.
11. WATER VALVE VAULTS MUST BE A TYPE A STRUCTURE AND CONFORM TO THE SAME SPECIFICATIONS AS PREVIOUSLY DETAILED FOR SEWER CONSTRUCTION. ALL ADJUSTMENTS AND FRAMES SHALL BE SEALED TO PREVENT INFILTRATION. ALL WATER VALVE VAULT LIDS, WHICH SHALL BE THE SAME HEAVY WEIGHT TYPE AS SPECIFIED FOR STORM SEWER, AND VALVE BOX LIDS SHALL BE IMPRINTED WITH THE WORD "WATER".
12. FOR MAINS 8" AND LESS A 48" VAULT MAY BE USED. FOR MAINS LARGER THAN 8" A 60" VAULT MUST BE PROVIDED. THE VALVE VAULT SHALL BE SEALED WITH THE USE OF CONCRETE BLOCKS AND MORTAR. ALL PIPES ENTERING THE MANHOLE SHALL HAVE A 2" WIDE MORTARED COLLAR ON BOTH THE INSIDE AND OUTSIDE WALLS OF THE VAULT. VALVE VAULTS MAY ALSO BE SEALED WITH THE USE OF RUBBER BOOTS. A DISTANCE OF APPROXIMATELY 12" MUST BE PROVIDED BETWEEN THE FLOOR OF THE VALVE VAULT AND THE BOTTOM OF THE VALVE. THIS WILL ALLOW SPACE FOR A CONCRETE PEDESTAL WITH A MINIMUM HEIGHT OF 12". THE PEDESTAL SHALL EQUAL THE WIDTH OF THE PIPE. A 1/2" LAYER OF PREFORMED JOINT FILLER SHALL BE PLACED BETWEEN THE PEDESTAL AND THE VALVE.
13. THE OPERATING NUT OF EACH VALVE SHALL BE LOCATED DIRECTLY BELOW THE MANHOLE OR VALVE BOX LID.
14. VALVE BOX CONSTRUCTION AND MATERIALS SHALL CONFORM WITH ALL STANDARDS FOUND IN THE "STANDARD SPECIFICATIONS FOR THE CONSTRUCTION OF WATER AND SEWER MAIN IN ILLINOIS". VALVE BOXES SHALL BE SEALED AS TO NOT ALLOW THE ENTRANCE OF ANY LOOSE IMPEDIMENTS.
15. THE VALVE BOX SHALL BE PLACED VERTICAL WITH THE OPENING DIRECTLY ABOVE THE OPERATING NUT. ALL BOXES SHALL BE ADJUSTABLE WITH A MINIMUM OF 6" OF ADJUSTMENT REMAINING, AFTER THE BOX HAS BEEN BROUGHT TO MATCH EXISTING GRADE.
16. A MINIMUM OF 18" MUST BE PRESENT BETWEEN THE CENTER OF THE AUXILIARY VALVE AND THE FRONT OF THE HYDRANT TO ENSURE PROPER WRENCH CLEARANCE. ALL HYDRANTS WILL BE BRACED USING POURED IN PLACE CONCRETE BEHIND THE HYDRANT. THE SOLE USE OF RODS FOR BRACING THE HYDRANT WILL NOT BE PERMITTED. NO PART OF THE CONCRETE SHALL COME IN CONTACT WITH THE WEEP HOLE OF THE HYDRANT. A MINIMUM OF 1/2 C.Y. OF WASHED STONE SHALL BE PLACED AROUND THE HYDRANT AT THE WEEP HOLE. THIS STONE SHALL THEN BE COVERED WITH FILTER FABRIC TO PREVENT SEDIMENT FROM CLOGGING THE WEEP HOLE.
17. FIRE HYDRANTS SHALL BE OF THE COMPRESSION OR GATE TYPE, AS MANUFACTURED BY EAST JORDAN, OR APPROVED EQUAL CONFORMING TO THE LATEST AWWA SPECIFICATION, TESTED TO 300 PSI. HYDRANTS SHALL HAVE A MINIMUM FIVE AND ONE-QUARTER INCH VALVE OPENING AND BE PROVIDED WITH A FOUR AND ONE-HALF INCH PUMPER CONNECTION AND TWO, TWO AND ONE-HALF INCH HOSE CONNECTIONS WITH NATIONAL STANDARD THREAD.

REQUIRED WATER TESTING

ALL WATER MAIN AND SERVICE PIPE, FITTINGS, VALVES AND HYDRANTS SHALL BE SUBJECTED TO A HYDROSTATIC PRESSURE OF 150 PSI AFTER INSTALLATION. EACH SECTION OF WATER MAIN AND CONNECTIONS TO BE PRESSURE TESTED SHALL BE CAREFULLY FILLED WITH WATER TO EXPEL ALL TRAPPED AIR, AND THE TEST PRESSURE SHALL BE APPLIED BY USE OF A PUMP CONNECTED TO A TAP IN THE PIPE. THE TEST PRESSURE SHALL HOLD WITHOUT PRESSURE LOSS OR FURTHER PRESSURE APPLICATION FOR A DURATION OF TWO HOURS. IN THE EVENT OF A PRESSURE LOSS, THE CONTRACTOR SHALL LOCATE AND CORRECT ALL LEAKS, AND THEN REPEAT THE HYDROSTATIC PRESSURE TEST UNTIL SATISFACTORY TO THE VILLAGE OF LINCOLNSHIRE ENGINEER. THE DISTRICT MUST BE CONTACTED AT LEAST 24 HOURS PRIOR TO PRESSURE TESTING THE WATER MAIN.

DISINFECTION

AFTER THE WATER MAIN WORK HAS BEEN SATISFACTORILY COMPLETED, INCLUDING PRESSURE AND LEAKAGE TESTING, THE CONTRACTOR SHALL FURNISH EQUIPMENT AND CHEMICALS NECESSARY TO PROPERLY DISINFECT THE WORK IN ACCORDANCE WITH THE LATEST REVISION OF AWWA STANDARD C601. CHLORINE WHICH MAY BE USED IN THE DISINFECTING SOLUTIONS IS CHLORINE GAS ONLY. DISINFECTING SOLUTIONS SHALL BE APPLIED BY CONTINUOUS FEED METHOD UNLESS OTHERWISE APPROVED IN WRITING BY THE ENGINEER, AND SHALL CONTAIN A MINIMUM OF 50 MILLIGRAMS PER LITER (mg/L) OF AVAILABLE CHLORINE. THE DISINFECTING SOLUTION SHALL BE RETAINED IN THE MAIN FOR A PERIOD OF NOT LESS THAN 24 HOURS AFTER WHICH THE WATER SHALL CONTAIN NO LESS THAN 25 mg/L CHLORINE THROUGHOUT THE NEW WORK. AFTER THE 24 HOUR RETENTION PERIOD, THE DISINFECTING SOLUTION SHALL BE FLUSHED FROM THE MAIN UNTIL THE CHLORINE CONCENTRATION IN THE WATER FLOWING FROM THE MAIN IS NO HIGHER THAN THAT GENERALLY PREVAILING IN THE OWNER'S SYSTEM, OR LESS THAN 1mg/L.

STORM SEWER

1. ALL STORM SEWER CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", STATE OF ILLINOIS, DEPARTMENT OF TRANSPORTATION, ADOPTED APRIL 1, 2016, AND REVISIONS THERETO, THE NOTES IN THE PLANS, AND IN ACCORDANCE WITH THE ORDINANCES OF THE VILLAGE OF LINCOLNSHIRE.
2. ALL STORM SEWER SHALL BE CLASS IV REINFORCED CONCRETE PIPE CONFORMING TO ASTM C-361, PVC SDR-26, OR DUCTILE IRON PIPE CLASS 52 AS CALLED OUT ON THE PLANS. TRENCH SHALL BE BACKFILLED WITH COMPACTED CA-7. RUBBER GASKETS SHALL BE USED.
3. ALL MANHOLES AND INLET STRUCTURES SHALL BE PRECAST REINFORCED CONCRETE MANUFACTURED TO A.S.T.M. DESIGNATION C-478.
4. SEE DETAIL SHEET FOR MANHOLE FRAMES AND GRATES.
5. AFTER THE STRUCTURE HAS PROPERLY SET AND PIPE HAS BEEN CONNECTED, ALL REMAINING OPENINGS TO THE STRUCTURE SHALL BE MORTARED. THIS INCLUDES BUT IS NOT LIMITED TO LIFT HOLES AND VOIDS AROUND CONNECTING PIPE. PRECAST ELEMENTS MUST BE SEALED WITH A BUTYL RUBBER JOINT SEALANT AND BE TUCKPOINTED WITH HYDRAULIC CEMENT. CONNECTING PIPE SHALL BE MORTARED ON BOTH THE INSIDE AND OUTSIDE OF THE STRUCTURE.
6. ALL STRUCTURES SHALL HAVE THE ADJUSTMENT RINGS AND FRAME SEALED WITH A RUBBER GASKET. ADJUSTMENT RINGS SHALL BE RUBBER, EJIW INFRARISER OR APPROVED EQUAL.
7. ALL STRUCTURES SHALL HAVE THE FRAME AND LID OR GRATE PARALLEL TO THE SURROUNDING GRADE LINE. CASTINGS SHALL NOT BE SET ON SLOPES IN LEVEL AREAS AND VICE VERSA. IF A CASTING IS TO BE PLACED ON A SLOPE (I.E. STEEP DRIVE APPROACH) IT SHALL BE PROPERLY SLOPED WITH THE USE OF CONCRETE MORTAR AND BRICKS. BITUMINOUS MASTIC IS PERMITTED WHEN COMBINED WITH THE USE OF CONCRETE OR MORTAR.

SANITARY SEWER CONSTRUCTION

1. ALL SANITARY SEWER CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE "STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS", LATEST EDITION, AND REVISIONS THERETO, THE NOTES AND ON THE PLANS, AND IN ACCORDANCE WITH CODES AND ORDINANCES OF THE VILLAGE OF LINCOLNSHIRE.
2. THE CONTRACTOR SHALL TAKE MEASURES TO PREVENT ANY UNPOLLUTED WATER SUCH AS GROUND AND SURFACE WATER FROM ENTERING THE EXISTING SANITARY SEWERS.
3. THE CONTRACTOR SHALL BE PROHIBITED FROM DISCHARGING ANY UNPOLLUTED WATER IN TO THE SANITARY SEWER SYSTEM FOR THE PURPOSE OF SEWER FLUSHING OR FLOATING LINES FOR THE DEFLECTION TEST WITHOUT PRIOR APPROVAL.
4. ALL SANITARY SEWERS 15" AND LESS IN DIAMETER SHALL BE PVC COMPOSITE SEWER PIPE, IN ACCORDANCE WITH A.S.T.M. D-2680, WITH PVC COMPOSITE SEWER PIPE HAVING ELASTOMERIC SEALS, PER A.S.T.M. D-3112, OR EQUAL, OR PVC SEWER PIPE IN ACCORDANCE WITH A.S.T.M. D-3034 WITH ELASTOMERIC SEALS PER D-3212. SANITARY SEWER SERVICES SHALL BE 6" MINIMUM SIZE. 6" SERVICE SHALL BE PVC SDR 26 PIPE, IN CONFORMANCE WITH A.S.T.M. D-3034. PVC SHALL HAVE FLEXIBLE ELASTOMERIC SEALS PER A.S.T.M. D-3212. WATER-MAIN-QUALITY SANITARY SEWERS TO COMPLY WITH ASTM D2241.
5. ALL MANHOLES SHALL BE PRECAST, REINFORCED CONCRETE SECTIONS, 48" INSIDE DIAMETER MINIMUM, WITH PRECAST, REINFORCED CONCRETE OFF-SET CONES, MANUFACTURED TO A.S.T.M. C-478. ALL SANITARY MANHOLES SHALL HAVE CRETEX OR APPROVED EQUAL, INTERNAL GRADE ADJUSTMENT SKIRTS. ADJUSTMENTS TO FINISHED GRADE SHALL BE ACCOMPLISHED USING EJIW INFRA-RISER OR APPROVED EQUAL, RUBBERIZED GRADE ADJUSTING RINGS.
6. ALL ADJUSTMENT RINGS AND FRAMES SHALL BE SEALED. THE INSIDE OF THE STRUCTURE SHALL BE SEALED WITH CONCRETE MORTAR. THE OUTSIDE OF THE MANHOLE SHALL BE SEALED WITH AN INFASHIELD RUBBER GASKET. THIS GASKET SHALL ENCOMPASS ALL ADJUSTMENT RINGS, AND FORM A WATERPROOF SEAL BETWEEN THE STRUCTURE AND FRAME.
7. ALL STRUCTURES SHALL BE A TYPE A MANHOLE WITH A POURED BENCH AND TROUGH. THE BENCH AND TROUGH OF THE STRUCTURE SHALL BE POURED CONCRETE, WITH A SMOOTH FINISH. THE BENCH SHALL BE A MINIMUM HEIGHT OF ONE-HALF OF THE DIAMETER OF THE CONNECTING PIPE AND EXTEND TO THE INSIDE WALLS OF THE MANHOLES. ANY CHANGE IN DIRECTION SHOULD BE MADE WITH THE USE OF ROUNDED TURNS. SHARP ANGLES WILL BE NOT BE PERMITTED IN THE REDIRECTION OF SEWER FLOW.
8. SANITARY MANHOLE LIDS SHALL BE A NEENAH HEAVY WEIGHT TYPE R-1712-C (WEIGHT 365 LBS), EAST JORDAN 1051 (WEIGHT 375 LBS) OR APPROVED EQUAL. ALL SANITARY LIDS ARE REQUIRED TO BE SELF SEALING WITH A CONCEALED PICK HOLE.
9. SANITARY SEWER MANHOLES WITH INTERNAL DROPS TWO FEET OR LESS SHALL HAVE A PRECAST CONCRETE TROUGH BUILT IN THE STRUCTURE TO OBTAIN A SMOOTH FLOW TRANSITION FROM THE UPSTREAM PIPE INVERT TO THE DOWNSTREAM PIPE INVERT.
10. BAND SEAL, OR SIMILAR COUPLINGS SHALL BE USED IN CONNECTING SEWER PIPES OF DISSIMILAR MATERIALS
11. WHEN CONNECTING TO AN EXISTING SEWER MAIN BY MEANS OTHER THAN AN EXISTING WYE, TEE OR AN EXISTING MANHOLE, ONE OF THE FOLLOWING METHODS SHALL BE USED:
   - A. CIRCULAR SAW-CUT OF SEWER MAIN BY PROPER TOOL "SEWER TAP" MACHINE (OR SIMILAR) AND PROPER INSTALLATION OF HUB-WYE SADDLE OR HUB-TEE SADDLE.
   - B. REMOVE AN ENTIRE SECTION OF PIPE (BREAKING ONLY THE TOP OF ONE BELL) AND REPLACE WITH A WYE OR TEE BRANCH SECTION.
   - C. WITH A PIPE CUTTER, NEATLY AND ACCURATELY CUT OUT DESIRED LENGTH OF PIPE FOR INSERTION OF PROPER FITTING USING "BAND SEAL" OR SIMILAR COUPLINGS TO HOLD IT FIRMLY IN PLACE.
12. WHERE A SEWER MAIN LATERAL OR BUILDING SERVICE SEWER CROSSES A WATERMAIN, A MINIMUM VERTICAL SEPARATION OF 18" SHALL BE PROVIDED BETWEEN THE TOP OF THE SEWER PIPE AND THE BOTTOM OF THE WATER PIPE. WHERE THE 18" VERTICAL SEPARATION IS NOT PROVIDED, THE SEWER SHALL BE CONSTRUCTED OF WATERMAIN QUALITY PIPE. ADDITIONALLY, THE SANITARY SEWER SHALL BE SUPPORTED AS INDICATED IN THE "STANDARD SPECIFICATIONS".

REQUIRED SANITARY SEWER TESTING

1. THE ENGINEER SHALL DETERMINE DURING CONSTRUCTION WHETHER INFILTRATION OR EXFILTRATION TESTING SHALL BE REQUIRED. MAXIMUM ALLOWABLE INFILTRATION SHALL BE 100 GALLONS PER MILE PER INCH DIAMETER OF PIPE. THE USE OF A V-NOTCH WEIR OR A PLUG WITH SPIGOT TO MEASURE FLOWS SHALL BE DETERMINED BY THE ENGINEER PRIOR TO THE TEST.
2. THE SANITARY SEWER SHALL BE TELEVISED BY THE CONTRACTOR AND A VIDEO TAPE RECORD SHALL BE MADE AND TURNED OVER TO THE VILLAGE OF LINCOLNSHIRE.
3. ALL SANITARY SEWERS WILL BE AIR TESTED BY THE CONTRACTOR UNDER THE SUPERVISION OF THE VILLAGE OF LINCOLNSHIRE ENGINEER. ALL TESTING WILL BE DONE IN CONFORMANCE WITH THE "STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS", LATEST EDITION.
4. ALL SANITARY MANHOLES SHALL BE VACUUM TESTED IN ACCORDANCE WITH ASTM C-1244-02 STANDARDS AND LEAKAGE TESTED IN ACCORDANCE WITH ASTM C-1969-94 & ASTM C-1244-93 STANDARDS.

DEFLECTION TESTING FOR FLEXIBLE THERMOPLASTIC PIPE

ALL PIPELINE SHALL BE TESTED FOR EXCESS DEFLECTION BY PULLING A "GO – NO GO" MANDREL THROUGH THE PIPE FROM MANHOLE TO MANHOLE. THE MANDREL SHALL BE SIZED IN ACCORDANCE WITH THE TESTING LIMITS GIVEN BELOW, AND AS SPECIFIED IN THE SPECIAL PROVISIONS. A "DEFLECTOMETER" MAY ALSO BE USED TO CHECK AND RECORD DEFLECTION. WHEREVER POSSIBLE AND PRACTICAL, THE TESTING SHALL INITIATE AT THE DOWNSTREAM LINES AND PROCEED TOWARDS THE UPSTREAM LINES.

WHERE DEFLECTION IS FOUND TO BE IN EXCESS OF ALLOWABLE TESTING LIMITS, THE CONTRACTOR SHALL EXCAVATE TO THE POINT OF EXCESS DEFLECTION AND CAREFULLY COMPACT AROUND THE POINT WHERE EXCESS DEFLECTION WAS FOUND. THE LINE SHALL THEN BE RETESTED FOR DEFLECTION. HOWEVER, SHOULD AFTER THE INITIAL TESTING THE DEFLECTED PIPE FAIL TO RETURN TO THE ORIGINAL SIZE (INSIDE DIAMETER), THE LINE SHALL BE REPLACED.

SAMPLING SHALL BE PERFORMED ON ALL SEWER PIPELINE BY THE ENGINEER.

DEFLECTION LIMITS FOR FLEXIBLE THERMOPLASTIC PIPES:

DEFLECTION OF POLYVINYL CHLORIDE (PVC) PIPE SHALL NOT EXCEED 5.0% OF THE "BASE I.D." (INTEGRAL DIAMETER) OF THE PIPE. "BASE I.D." (INTEGRAL DIAMETER) OF THE PIPE. "BASE I.D." SHALL BE CALCULATED IN ACCORDANCE WITH THE FOLLOWING:

AVG ID = AVG OD – 2(1.06)T
TOLERANCE PACKAGE = (A2+B2+B2+C2)/2
WHERE:
A = OD TOLERANCE (ASTM D3034)
B = EXCESS WALL THICKNESS TOLERANCE = 0.06T
C = OUT OF ROUNDNESS TOLERANCE = 0.015 (AVERAGE OD)
T = MINIMUM WALL THICKNESS (ASTM D3034)

BASE ID = AVG. ID – TOLERANCE PACKAGE

UTILITY CONTACTS

ELECTRICAL SERVICE

AGENCY:
ADDRESS:
CONTACT:
PHONE:
EMAIL:

GAS SERVICE

AGENCY:
ADDRESS:
CONTACT:
PHONE:
EMAIL:

TELEPHONE SERVICE

AGENCY:
ADDRESS:
CONTACT:
PHONE:
EMAIL:

SANITARY SEWER SERVICE

AGENCY: DEPARTMENT OF PUBLIC WORKS – WATER AND SEWER
ADDRESS: 1 OLDE HALF DAY ROAD, LINCOLNSHIRE, IL 60069
CONTACT: WALLY DITTRICH, VILLAGE ENGINEER
PHONE: 847.913.2366

STORM SEWER SERVICE

AGENCY: DEPARTMENT OF PUBLIC WORKS – STREETS AND STORMWATER
ADDRESS: 1 OLDE HALF DAY ROAD, LINCOLNSHIRE, IL 60069
CONTACT: WALLY DITTRICH, VILLAGE ENGINEER
PHONE: 847.913.2366

WATER SERVICE

AGENCY: DEPARTMENT OF PUBLIC WORKS – WATER AND SEWER
ADDRESS: 1 OLDE HALF DAY ROAD, LINCOLNSHIRE, IL 60069
CONTACT: WALLY DITTRICH, VILLAGE ENGINEER
PHONE: 847.913.2366

SEAL

No.	DATE	REVISION
	08/31/16	ISSUED FOR ARB

PROJECT No: 76561
DATE 06/06/16
DES. BI
DR. DH
CKD. JG

WOOLPERT
1815 South Meyers Road
Suite 120
Oakbrook Terrace, IL 60181
630.424.9080
FAX: 630.495.3731

SITE IMPROVEMENT PLANS
THE GARDNER SCHOOL
250 BARCLAY BOULEVARD
LINCOLNSHIRE, ILLINOIS

GENERAL NOTES

SHEET NO.
C001

Layout Tab Name: C001 GENERAL NOTES, Images: MWRD logo.jpg: , Xrefs: 076561-TBLK.dwg
Last Saved By:Iwaniuk, 7/19/2016 2:36:36 PM
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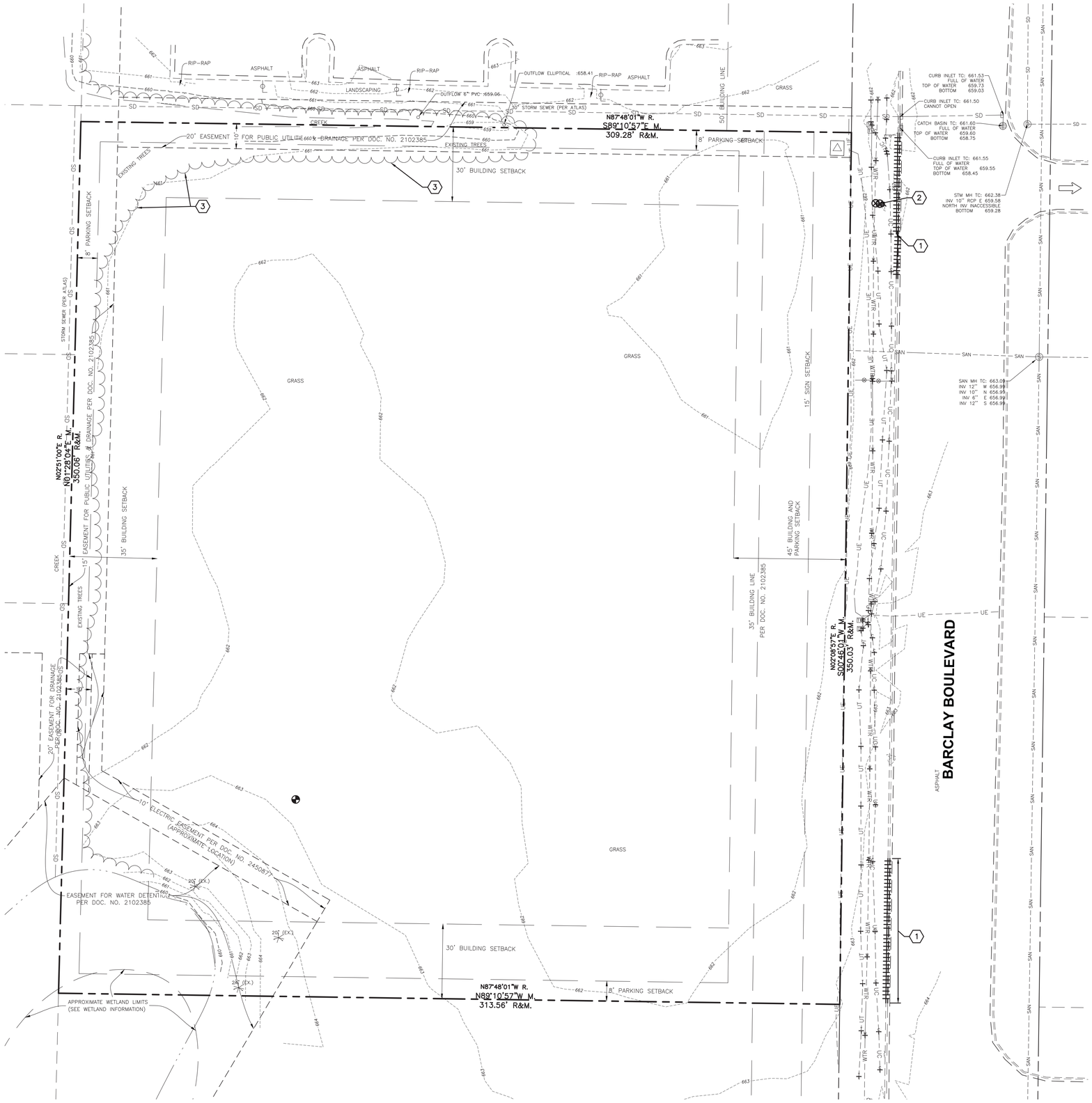


EXISTING LEGEND

- FOUND CHISELED CROSS
- FOUND ROW MONUMENT
- FOUND PK NAIL
- STORM MANHOLE
- INLET/MANHOLE/CATCH BASIN
- FLARED END SECTION
- FIRE HYD.
- WATER VALVE
- WATER MANHOLE
- GAS METER
- SPRINKLER CONTROL VALVE
- ELEC. TRANSFORMER
- ELECTRIC MANHOLE
- TELEPHONE MANHOLE
- CLEANOUT
- UTILITY POLE
- LIGHT POLE
- GUY WIRE
- TELEPHONE PEDESTAL
- TRAFFIC SIGNAL PULL BOX
- SANITARY MANHOLE
- SIGN
- 28SD UTILITY STRUCTURE ID
- PARKING COUNT
- WATER SERVICE
- SIGNAL POLE
- ELECTRIC METER
- OE OVERHEAD ELECTRIC
- UT UNDERGROUND TELEPHONE
- G UNDERGROUND GAS
- STORM
- SANITARY
- WTR WATER
- EXISTING CURB (AND GUTTER)

N

DEMOLITION LEGEND

1. SAWCUT AND REMOVE EXISTING CURB AND GUTTER
2. RELOCATE EXISTING FIRE HYDRANT AND VALVE
3. EXISTING TREE LINE SHALL BE PRESERVED AS MUCH AS POSSIBLE. EXTENTS OF TREE REMOVAL TO BE DETERMINED DURING CONSTRUCTION.

DEMOLITION NOTES

1. EXISTING UNDERGROUND UTILITIES ARE SHOWN IN THEIR APPROXIMATE LOCATIONS ACCORDING TO AVAILABLE INFORMATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE PRESENCE AND LOCATION OF THE EXISTING UTILITIES AND REPAIRING ANY DAMAGE DONE TO THE UTILITIES DURING PROBING OR CONSTRUCTION.
2. CALL J.U.L.I.E. (1–800–892–0123) FOR EXACT LOCATION OF UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION.
3. CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANIES FOR THE RELOCATION OF UTILITIES ON SITE OR CROSSING THE SITE TO SERVICE ADJACENT PROPERTIES. DO NOT INTERRUPT EXISTING UTILITIES SERVING FACILITIES OCCUPIED AND USED BY OWNER OR OTHERS, DURING OCCUPIED HOURS, EXCEPT WHEN PERMITTED BY OTHERS.
4. DEMOLISH AND COMPLETELY REMOVE FROM SITE, EXISTING UNDERGROUND UTILITIES INDICATED TO BE REMOVED. COORDINATE WITH UTILITY COMPANIES FOR SHUT–OFF OF SERVICES, IF LINES ARE ACTIVE.
5. EXISTING PAVEMENT AND CONCRETE PAVEMENTS ARE TO BE REMOVED FROM THE SITE AND DISPOSED OF IN A LEGAL MANNER.
6. MATERIAL CREATED AS A RESULT OF BUILDING DEMOLITION SHALL BE REMOVED FROM THE SITE AND DISPOSED OF IN A LEGAL MANNER.
7. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REMOVE ALL MUD, DIRT, GRAVEL, AND ANY OTHER MATERIALS TRACKED ONTO ANY PUBLIC OR PRIVATE STREETS OR SIDEWALKS. THE CONTRACTOR MUST USE WATER OR OTHER METHODS TO KEEP AIRBORNE DUST TO A REQUIRED MINIMUM.
8. PAVEMENT DAMAGED DUE TO THE REMOVAL OF EXISTING CURB SHALL BE SAWCUT, REMOVED AND REPLACED IN KIND.
9. A FULL DEPTH SAWCUT SHALL BE PROVIDED IN ALL AREAS WHERE PROPOSED PAVEMENT OR CURB AND GUTTER MEETS EXISTING PAVEMENT.
10. CONTRACTOR TO VERIFY LOCATION AND ELEVATION OF BENCHMARKS PRIOR TO THE START OF CONSTRUCTION.

BENCHMARK:

THE BASIS OF ELEVATIONS HEREON IS NAVD 88. IRON ROD SET – SEE DRAWING FOR LOCATION.

ELEVATION = 662.66'

Call Before You Dig
JULIE ILLINOIS ONE-CALL SYSTEM
Simply Call 811

0 20 40 60
GRAPHIC SCALE IN FEET

No.	DATE	REVISION
	08/31/16	ISSUED FOR ARB

PROJECT No: 76561
DATE 06/06/16
DES. BI
DR. DH
CKD. JG

WOOLPERT
1815 South Meyers Road
Suite 120
Oakbrook Terrace, IL 60181
630.424.9080
FAX: 630.495.3731

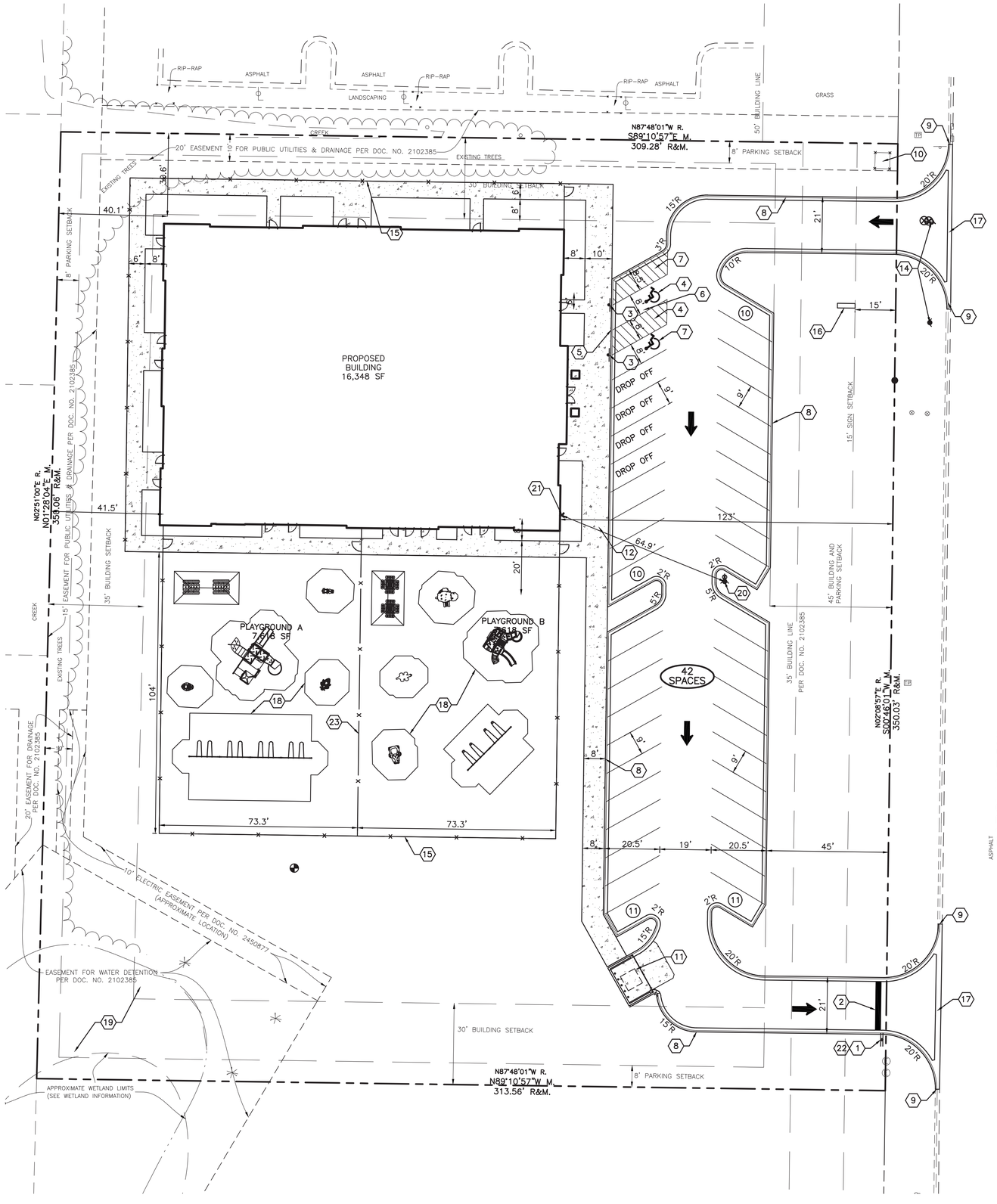
SITE IMPROVEMENT PLANS THE GARDNER SCHOOL

250 BARCLAY BOULEVARD
LINCOLNSHIRE, ILLINOIS

EXISTING CONDITIONS/DEMOLITION PLAN

SHEET NO.
C100

Layout Tab Name: C100 EXISTING CONDITIONS DEMOLITION PLAN, Images: lincolnshire aerial.jpg: MAP.png: , Xrefs: 076561–TBLK.dwg; 076561–X.dwg; 076561–P.dwg
Last Saved By:Iwaniuk, 8/16/2016 6:38:21 PM
G:\DE\Clients\Wang\076561 The Gardner School – Lincolnshire, IL\4.0 Disciplines\Civil\Cadd\Cd\076561–C100–EXC.dwg Plotted By:Iwaniuk, Brian, Plotted:September 1, 2016, 10:38:08 AM



SITE LEGEND

- INDICATES LIGHT DUTY PAVEMENT–SEE DETAILS FOR PAVEMENT COMPOSITION
- INDICATES HEAVY DUTY PAVEMENT–SEE DETAILS FOR PAVEMENT COMPOSITION
- INDICATES NEW CONCRETE PAVEMENT/SIDEWALK–SEE DETAILS FOR PAVEMENT COMPOSITION
- LIGHT POLES
- EXISTING CURB AND GUTTER
- POSITIVE SLOPED CURB
- NEGATIVE SLOPED CURB
- (10) INDICATES ROW PARKING COUNT
- (100 SPACES) INDICATES PARKING TOTAL FOR SURROUNDING AREA
- PROPERTY BOUNDARY

N

SITE KEY NOTES

NO.	DESCRIPTION
1	"STOP" SIGN, R1–1
2	24" WIDE STOP BAR, TRAFFIC WHITE PAINT
3	ACCESSIBLE PARKING SIGN
4	ACCESSIBLE PARKING SYMBOL
5	ACCESSIBLE RAMP WITH DETECTABLE WARNING
6	ACCESSIBLE PARKING SPACES & THEIR ACCESS AISLES SHALL BE 2% MAX. SLOPE IN ALL DIRECTIONS
7	PAINT 4" WIDE STRIPES @ 2'–0" O.C. @ 45° ANGLE, TRAFFIC YELLOW PAINT
8	CURB AND GUTTER
9	BEGIN/END PROPOSED CURB AND GUTTER. SAWCUT EXISTING CURB TO PROVIDE CLEAN CONSTRUCTION JOINT.
10	EXISTING TRANSFORMER TO REMAIN
11	DUMPSTER ENCLOSURE (SEE ARCHITECTURAL PLANS)
12	CONCRETE WALK
13	DIRECTIONAL ARROW, TRAFFIC WHITE PAINT
14	RELOCATE EXISTING HYDRANT
15	6' FENCE–SEE ARCHITECTURAL PLANS. FENCE TO MEET DCFS REQUIREMENTS
16	MONUMENT SIGN – SEE ARCHITECTURAL PLANS
17	DEPRESSED CURB AND GUTTER
18	PLAYGROUND AREA
19	EXISTING DETENTION AREA
20	FIRE HYDRANT
21	FIRE DEPARTMENT CONNECTION
22	"DO NOT ENTER" SIGN
23	4' FENCE–SEE ARCHITECTURAL PLANS. FENCE TO MEET DCFS REQUIREMENTS

SITE DATA

GROSS SITE AREA	2.502±	ACRES
NET SITE AREA	2.502±	ACRES
GROSS IMPERVIOUS SURFACE AREA	40,568 SF	
GROSS AREA OF OPEN SPACE	68,420 SF	
PIN	15–22–101–020	
ZONING	O/IC	
FAR	0.147	
BUILDING DATA:		
TOTAL GROSS AREA OF ALL BUILDINGS (ONE USE, DAYCARE)	16,348 SF	
BUILDING HEIGHT MAX (AT CUPOLA)	32 FEET	
BUILDING HEIGHT AT TALLEST ROOFTOP UNIT	18' – 2"	
PLAYGROUND A AREA	7,618 SF	
PLAYGROUND B AREA	7,618 SF	
PARKING DATA:		
SPACES REQUIRED	1/500 SF = 33 SPACES	
SPACES PROVIDED	42	
ACCESSIBLE SPACES REQUIRED	2	
ACCESSIBLE SPACES PROVIDED	2	
SETBACK DATA:		
FRONT BUILDING	45'	35'+1' FOR EVERY 1' OF BUILDING HEIGHT OVER 20'
SIDE BUILDING	30'	20'+1' FOR EVERY 1' OF BUILDING HEIGHT OVER 20'
REAR BUILDING	35'	25'+1' FOR EVERY 1' OF BUILDING HEIGHT OVER 20'
PARKING	8'	NO PARKING IN REQUIRED FRONT YARDS. PARKING PERMITTED IN REQUIRED REAR AND INTERIOR SIDE YARDS

SITE NOTES

1. ALL DIMENSIONS, RADII AND COORDINATES ARE TO BACK OF CURB WHERE APPLICABLE.
2. ALL PAVEMENT MARKING SHALL BE YELLOW IN COLOR UNLESS INDICATED OTHERWISE.
3. ALL CURB & GUTTER SHALL BE B6.12, "POSITIVE", UNLESS NOTED OTHERWISE (SEE DETAILS).
4. SEE ARCHITECTURAL PLANS FOR BUILDING DIMENSIONS.

BENCHMARK:

THE BASIS OF ELEVATIONS HEREON IS NAVD 88. IRON ROD SET – SEE DRAWING FOR LOCATION.

ELEVATION = 662.66'

0 20 40 60
GRAPHIC SCALE IN FEET

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No.	DATE	REVISION
	08/31/16	ISSUED FOR ARB

SEAL

PROJECT No: 76561
DATE 06/06/16
DES. BI
DR. DH
CKD. JG

WOOLPERT
1815 South Meyers Road
Suite 120
Oakbrook Terrace, IL 60181
630.424.9080
FAX: 630.495.3731

SITE IMPROVEMENT PLANS THE GARDNER SCHOOL

250 BARCLAY BOULEVARD
LINCOLNSHIRE, ILLINOIS

SITE PLAN

SHEET NO.
C200

Layout Tab Name: C200 SITE PLAN, Images: lincolnshire aerial.jpg: MAP.png: , Xrefs: 076561–TBLK.dwg; 076561–X.dwg; 076561–P.dwg
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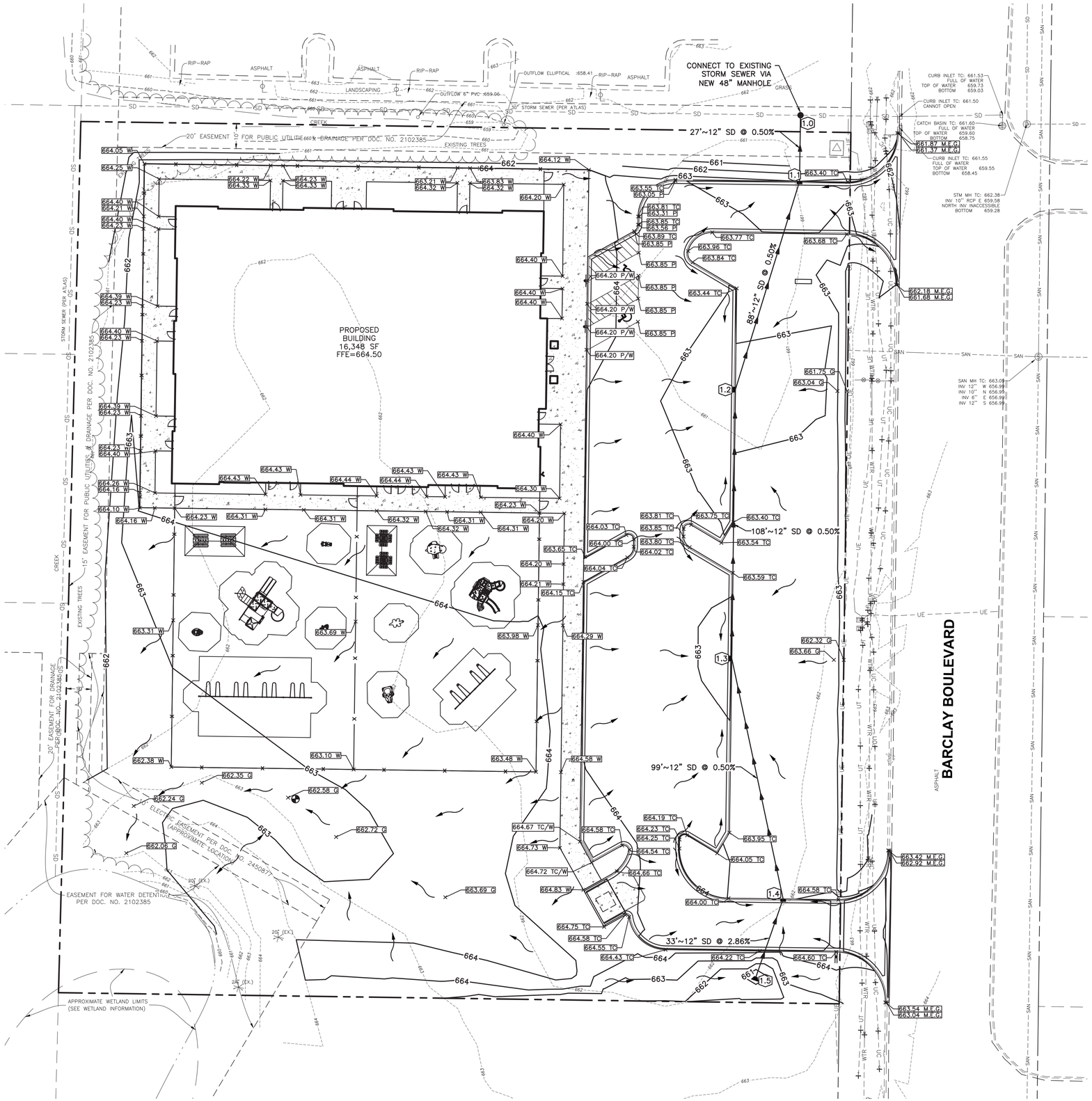

GRADING LEGEND

- PROPOSED BOUNDARY
- 803 — EXISTING 1' CONTOUR
- 810 — EXISTING 5' CONTOUR
- 803 — PROPOSED 1' CONTOUR
- 810 — PROPOSED 5' CONTOUR
- PROPOSED STORM DRAIN
- CENTERLINE DRAINAGE SWALE
- DIRECTION OF FLOW
- OVERLAND FLOW ROUTE
- 800.00 — PROPOSED SPOT SHOT ELEVATION
- 800.00 TC — ELEVATION AT TOP OF CURB
- 800.00 P — ELEVATION AT TOP OF PAVEMENT
- 800.00 G — ELEVATION AT GRADE
- 800.00 S — ELEVATION AT TOP OF SLAB
- 800.00 W — ELEVATION AT TOP OF WALK
- 800.00 RIM — ELEVATION AT STRUCTURE RIM
- M.E.G. — ELEVATION TO MATCH EXISTING GRADE
- PROPOSED CATCH BASIN
- PROPOSED CURB INLET
- PROPOSED STORM MANHOLE
- PROPOSED FLARED END SECTION
- PROPOSED CLEANOUT
- BENCHMARK
- POSITIVE SLOPED CURB
- NEGATIVE SLOPED CURB
- 1 / C700 — INDICATES DETAIL LOCATION (DETAIL NUMBER/DETAIL SHEET)
- 1.0 — PROPOSED STORM STRUCTURE CALLOUT

N

GRADING NOTES

1. CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES HAVING UNDERGROUND UTILITIES ON SITE OR IN RIGHT-OF-WAY PRIOR TO EXCAVATION. CONTRACTOR SHALL CONTACT UTILITY LOCATING COMPANY AND LOCATE ALL UTILITIES PRIOR TO GRADING START.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UNDERGROUND OR SURFACE UTILITIES EVEN THOUGH THEY MAY NOT BE SHOWN ON THE PLANS. ANY UTILITY THAT IS DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED TO THE SATISFACTION OF THE ENGINEER AND THE OWNER, OR REPLACED.
3. SITE GRADING SHALL NOT PROCEED UNTIL EROSION CONTROL MEASURES HAVE BEEN INSTALLED.
4. CONTRACTOR SHALL FIELD VERIFY SITE CONDITIONS, ELEVATIONS, SIZES, AND MATERIAL OF ALL EXISTING UTILITIES WHICH ARE TO BE TAPPED OR EXTENDED ON SITE. ANY DEVIATIONS FROM PLAN INFORMATION SHALL BE PROVIDED TO THE ENGINEER IN WRITING WITHIN 24 HOURS AND PRIOR TO THE START OF CONSTRUCTION ON THAT IMPROVEMENT. SHOULD THE CONTRACTOR START WORK WITHOUT NOTIFICATION TO THE ENGINEER OF ANY DISCREPANCIES, HE WILL ASSUME ALL RESPONSIBILITY OF THE WORK NECESSARY TO COMPLETE THE PROJECT.
5. RIM GRADES AS SHOWN IN THE STORM STRUCTURE TABLE IS THE TOP OF CURB ELEVATION.
6. ALL PAVEMENT ELEVATIONS TO BE 6 INCHES BELOW TOP OF CURB ELEVATIONS, UNLESS NOTED OTHERWISE.

STORM STRUCTURE TABLE

STRUCTURE ID	DESCRIPTION	RIM/GRATE	INVERT
1.0	60" STORM MH	664.60	12" = 658.45 (S)
1.1	48" STORM MH	663.00	12" = 658.58 (S) 12" = 658.58 (N)
1.2	48" STORM MANHOLE	662.63	12" = 659.02 (S) 12" = 659.02 (N)
1.3	48" STORM MANHOLE	663.25	12" = 659.56 (S) 12" = 659.56 (N)
1.4	48" STORM MANHOLE	663.81	12" = 660.05 (S) 12" = 660.05 (N)
1.5	12" F.E.S.		12" = 661.00 (N)

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BENCHMARK:

THE BASIS OF ELEVATIONS HEREON IS NAVD 88. IRON ROD SET – SEE DRAWING FOR LOCATION.

ELEVATION = 662.66'

0 20 40 60
GRAPHIC SCALE IN FEET

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DR. DH
CKD. JG

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FAX: 630.495.3731
WOOLPERT

SITE IMPROVEMENT PLANS THE GARDNER SCHOOL

250 BARCLAY BOULEVARD
LINCOLNSHIRE, ILLINOIS

GRADING PLAN

SHEET NO.
C300

Layout Tab Name: C300 GRADING PLAN, Images: lincolnshire aerial.jpg: MAP.png: , Xrefs: 076561-TBLK.dwg; 076561-X.dwg; 076561-P.dwg
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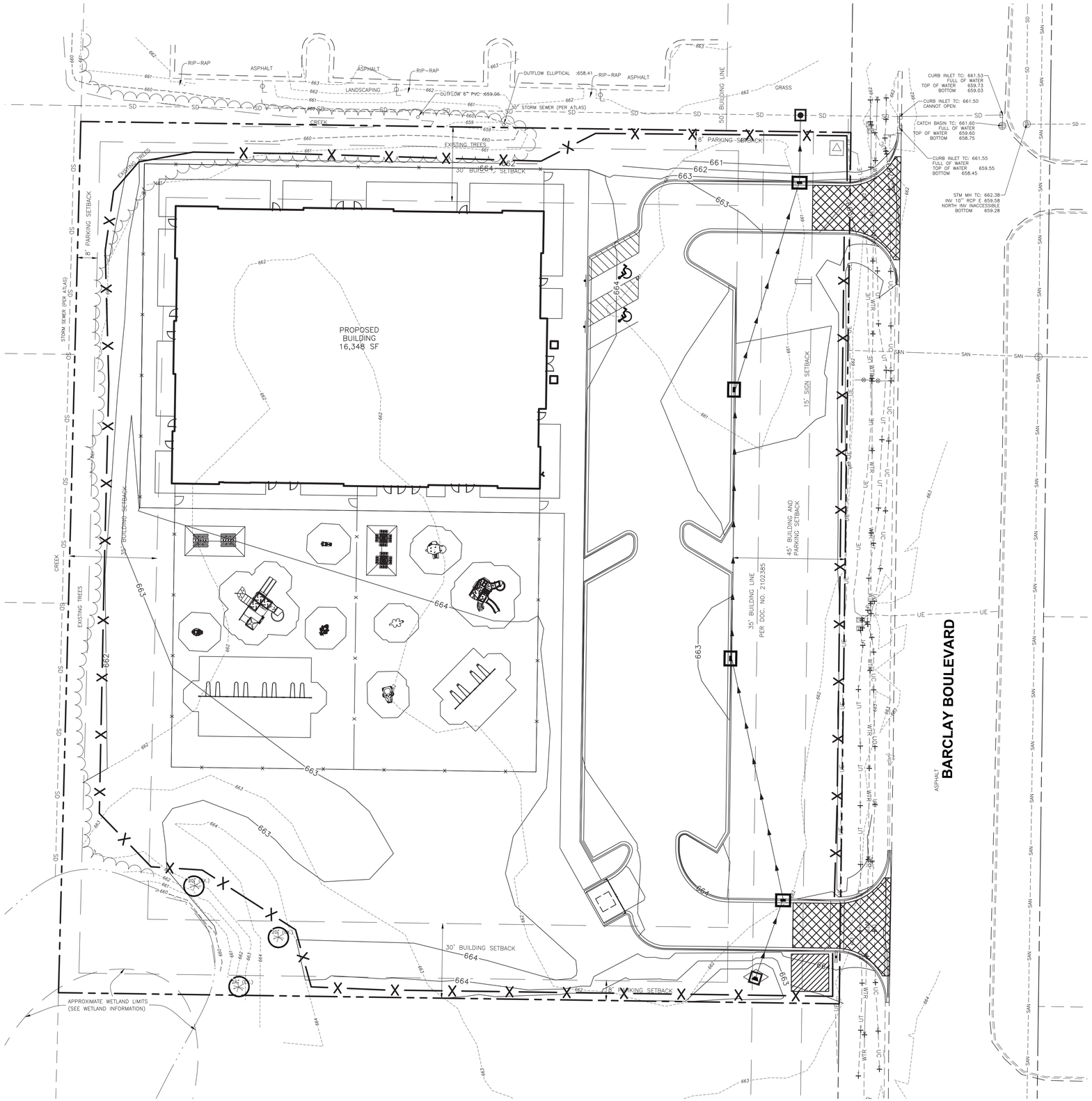

EROSION CONTROL LEGEND

- SILT FENCE
- STABILIZED CONSTRUCTION ENTRANCE
- CONCRETE WASHOUT
- INLET PROTECTION
- CURB INLET PROTECTION
- EXISTING TREES TO BE PRESERVED WITH PRESERVATION FENCING

N

EROSION CONTROL NOTES

1. SOIL TRACKED OFF-SITE BY CONSTRUCTION VEHICLES SHALL BE REMOVED FROM THE PAVEMENTS AS DEEMED NECESSARY BY THE MUNICIPAL ENGINEER AND SHALL BE RETURNED TO THE SITE OR DISPOSED OF IN AN APPROVED MANNER.
2. INLET PROTECTION SHALL BE REMOVED AFTER THE SITE HAS BEEN PAVED AND ALL ISLANDS/GRASS AREAS HAVE BEEN MULCHED/SEEDED.
3. CONTRACTOR SHALL CLEAN ANY SEDIMENT THAT COLLECTS IN CHANNEL AND INLETS OR IS DEPOSITED ON-SITE PRIOR TO REMOVAL OF EROSION CONTROL MEASURES.
4. EROSION CONTROL DEVICES AS SHOWN ARE THE MINIMUM PROTECTION REQUIREMENTS. EROSION CONTROL MEASURES SHALL NOT BE REMOVED UNTIL THE SITE IS PERMANENTLY STABILIZED. THE CONTRACTOR IS REQUIRED TO INSTALL ADDITIONAL DEVICES FOR PROTECTION AT HIS EXPENSE TO MINIMIZE EROSION PER LOCAL REQUIREMENTS.
5. ANY TEMPORARY STOCK PILE OF SOIL PLACED BY THE CONTRACTOR SHALL BE STABILIZED AND PROTECTED FROM EROSION.
6. ALL EROSION CONTROL STRUCTURES SHALL BE INSPECTED AND MAINTAINED AT LEAST ONCE EVERY 7 DAYS AND WITHIN 24 HOURS OF A SIGNIFICANT RAINFALL. RECORDS OF THESE INSPECTIONS AND CORRECTIVE ACTIONS TAKEN SHALL BE MAINTAINED ON FILE IN THE CONSTRUCTION OFFICE.
7. CONTRACTOR SHALL PREVENT SEDIMENT FROM LEAVING THE SITE.
8. CONTRACTOR SHALL COMPLY WITH ALL STATE AND LOCAL ORDINANCES THAT APPLY.
9. INSTALL ADDITIONAL CONTROL MEASURES IF DEEMED NECESSARY BY ONSITE INSPECTION.
10. CONTRACTOR SHALL ESTABLISH PERMANENT SOIL STABILIZATION.
11. INLET PROTECTION SHALL BE AN INLET PROTECTOR MANUFACTURED BY MAR-MAC OR IPP INLET FILTER OR APPROVED EQUAL.
12. SOIL STOCKPILES GREATER THAN 10 CUBIC YARDS MUST BE LOCATED AT LEAST 25' FROM ROADWAYS, DRAINAGE CHANNELS, WETLANDS, ETC.
13. SIDE SLOPES 4:1 OR GREATER SHALL BE STABILIZED WITH AN EROSION CONTROL BLANKET BY THE SITE CONTRACTOR. EROSION CONTROL BLANKET SHALL BE TYPE SC150. STRAW/FIBER EROSION CONTROL BLANKET AS MANUFACTURED BY NORTH AMERICAN GREEN COMPANY, OR AN ENGINEER APPROVED EQUAL.
14. EXISTING TREE LINE SHALL BE PRESERVED AS MUCH AS POSSIBLE. EXTENTS OF TREE REMOVAL TO BE DETERMINED DURING CONSTRUCTION.

SEQUENCE OF MAJOR CONSTRUCTION ACTIVITIES

1. INSTALL PERIMETER SE/SC MEASURES SUCH AS SILT FENCE AND A STABILIZED CONSTRUCTION ENTRANCE.
2. DISTURBED AREAS OF THE SITE WHERE CONSTRUCTION ACTIVITY HAS CEASED FOR MORE THAN 14 DAYS SHALL BE TEMPORARILY SEEDED AND WATERED. MAINTENANCE FOR SE/SC MEASURES MUST OCCUR EVERY TWO WEEKS AND AFTER EVERY 0.5-INCH OR GREATER RAINFALL EVENT.
3. INSTALL STORM SEWER, SANITARY SEWER, WATER AND ASSOCIATED INLET AND OUTLET PROTECTION (SEE DETAIL)
4. PERMANENTLY STABILIZE DETENTION BASINS WITH SEED AND EROSION CONTROL BLANKET
5. TEMPORARILY STABILIZE ALL AREAS INCLUDING LOTS THAT HAVE REACHED TEMPORARY GRADE
6. INSTALL CONCRETE AND ASPHALT PAVEMENT
7. REMOVE ALL TEMPORARY SE/SC MEASURES

AREA SUMMARY

TOTAL SITE AREA = 2.50 ACRES
DISTURBED AREA = 2.15 ACRES

BENCHMARK:

THE BASIS OF ELEVATIONS HEREON IS NAVD 88. IRON ROD SET - SEE DRAWING FOR LOCATION.

ELEVATION = 662.66'

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SITE IMPROVEMENT PLANS THE GARDNER SCHOOL

250 BARCLAY BOULEVARD
LINCOLNSHIRE, ILLINOIS

EROSION CONTROL PLAN

SHEET NO.
C301

Layout Tab Name: C301 EROSION CONTROL PLAN, Images: lincolnshire aerial.jpg: MAP.png: , Xrefs: 076561-TBLK.dwg; 076561-X.dwg; 076561-P.dwg
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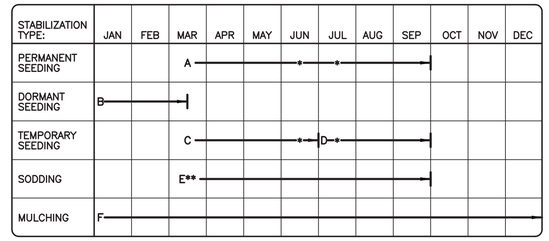
EROSION CONTROL REQUIREMENTS FOR COMPLIANCE WITH EPA'S GENERAL PERMIT FOR CONSTRUCTION

1. THE EROSION CONTROL MEASURES INCLUDED IN THE STORM WATER POLLUTION PREVENTION PLAN (GRADING/EROSION CONTROL PLAN AND EROSION CONTROL DETAILS) SHALL BE INSTALLED PRIOR TO INITIAL LAND DISTURBANCE ACTIVITIES OR AS SOON AS PRACTICAL. SEDIMENT SHALL BE PREVENTED FROM DISCHARGING FROM THE PROJECT SITE BY INSTALLING AND MAINTAINING SILT FENCE, STRAW BALES, SEDIMENT BASINS, ETC. AS SHOWN ON THIS PLAN. IF SHOWN ON THESE PLANS, ENERGY-DISSIPATION DEVICES OR EROSION CONTROL AT THE OUTFALL OF THE STORM SEWER SYSTEM SHALL BE INSTALLED AT THE TIME OF THE CONSTRUCTION OF THE OUTFALL.
2. THE CONTRACTOR SHALL CONTROL WASTES, GARBAGE, DEBRIS, WASTEWATER, AND OTHER SUBSTANCES ON THE SITE IN SUCH A WAY THAT THEY SHALL NOT BE TRANSPORTED FROM THE SITE BY THE ACTION OF WINDS, STORM WATER RUNOFF, OR OTHER FORCES. PROPER DISPOSAL OR MANAGEMENT OF ALL WASTES AND UNUSED BUILDING MATERIAL, APPROPRIATE TO THE NATURE OF THE WASTE OR MATERIAL IS REQUIRED. COMPLIANCE IS REQUIRED WITH ALL STATE OR LOCAL REGULATIONS REGARDING WASTE DISPOSAL, SANITARY SEWER, OR SEPTIC SYSTEMS.
3. PUBLIC OR PRIVATE ROADWAYS SHALL BE KEPT CLEARED OF ACCUMULATED SEDIMENT. BULK CLEARING OF ACCUMULATED SEDIMENT SHALL NOT INCLUDE FLUSHING THE AREA WITH WATER. CLEARED SEDIMENT SHALL BE RETURNED TO THE POINT OF LIKELY ORIGIN OR OTHER SUITABLE LOCATION. SEDIMENT SHALL BE REMOVED AT THE END OF EACH WORKDAY.
4. ALL ON-SITE STORM DRAIN INLETS SHALL BE PROTECTED AGAINST SEDIMENTATION WITH STRAW BALES, FILTER FABRIC, OR EQUIVALENT BARRIERS AS SHOWN ON THESE PLANS.
5. EXCEPT AS PREVENTED BY INCLEMENT WEATHER CONDITIONS, ALL DISTURBED AREAS TO REMAIN INACTIVE FOR MORE THAN 14 DAYS SHALL BE STABILIZED BY SEEDING, SODDING, MULCHING, COVERING, OR BY OTHER EQUIVALENT EROSION CONTROL MEASURES WITHIN SEVEN (7) DAYS. PERMANENT SOIL STABILIZATION SHALL BE PROVIDED WITHIN 7 DAYS AFTER FINAL GRADE IS ESTABLISHED.
6. THIS EROSION CONTROL PLAN SHALL BE IMPLEMENTED ON ALL DISTURBED AREAS WITHIN THE CONSTRUCTION SITE. ALL MEASURES INVOLVING EROSION CONTROL PRACTICES SHALL BE INSTALLED UNDER THE GUIDANCE OF QUALIFIED PERSONNEL EXPERIENCED IN EROSION CONTROL, AND FOLLOWING THE PLANS AND SPECIFICATIONS INCLUDED HEREIN.
7. DURING THE PERIOD OF CONSTRUCTION ACTIVITY, ALL SEDIMENT BASINS AND OTHER EROSION CONTROL MEASURES SHALL BE MAINTAINED BY THE CONTRACTOR. AT COMPLETION OF CONSTRUCTION, THE CONTRACTOR SHALL COORDINATE THE TRANSFER OF MAINTENANCE RESPONSIBILITIES, IF REQUIRED, WITH THE OWNER. MAINTENANCE SHALL BE IN ACCORDANCE WITH THE ILLINOIS ENVIRONMENTAL PROTECTION AGENCY STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL, 1987, AND THE STORMWATER POLLUTION PREVENTION PLAN FOR THIS PROJECT.
8. ALL EROSION CONTROL PRACTICES SHALL BE IN ACCORDANCE WITH ILLINOIS ENVIRONMENTAL PROTECTION AGENCY NPDES PERMIT FOR GENERAL CONSTRUCTION AND ALL PRACTICES WILL MEET OR EXCEED THOSE DETAILED IN THE ILLINOIS URBAN MANUAL.
9. EXISTING VEGETATION SHALL BE PROTECTED AS MUCH AS PRACTICAL.
10. ALL EROSION AND SEDIMENT CONTROLS SHALL BE INSPECTED IN ACCORDANCE WITH THE CONDITIONS OF APPLICABLE NPDES PERMITS.
11. ALL TEMPORARY EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE REMOVED AND DISPOSED OF WITHIN THIRTY DAYS AFTER FINAL SITE STABILIZATION IS ACHIEVED OR AFTER THE TEMPORARY PRACTICES ARE NO LONGER NEEDED. TRAPPED SEDIMENT SHALL BE PERMANENTLY STABILIZED TO PREVENT FURTHER EROSION.
12. THIS EROSION CONTROL PLAN MUST BE RETAINED ON-SITE AT ALL TIMES DURING THE PERIOD OF CONSTRUCTION.
13. STOCKPILES OF SOIL AND OTHER BUILDING MATERIALS TO REMAIN IN PLACE MORE THAN THREE (3) DAYS SHALL BE FURNISHED WITH EROSION AND SEDIMENT CONTROL MEASURES (I.E. PERIMETER SILT FENCE). STOCKPILES TO REMAIN IN PLACE FOR 21 DAYS OR MORE SHALL RECEIVE TEMPORARY SEEDING.
14. ACCESS TO THE CONSTRUCTION SITE SHALL BE LIMITED TO THE STABILIZED CONSTRUCTION ENTRANCE ONLY.
15. IF DEWATERING DEVICES ARE USED, DISCHARGE LOCATIONS SHALL BE PROTECTED FROM EROSION. ALL PUMPED DISCHARGES SHALL BE ROUTED THROUGH APPROPRIATELY DESIGNED SEDIMENT TRAPS OR BASINS.
16. ANY SEDIMENT REACHING THE STORM SEWER SYSTEM SHALL BE REMOVED FROM THE SEWER AND NOT FLUSHED DOWNSTREAM.
17. ANY ERODED SEDIMENT CAPTURED IN DETENTION, RETENTION, OR DEPRESSION STORAGE AREAS SHALL BE REMOVED BY THE APPLICANT BEFORE PROJECT COMPLETION.
18. WIND EROSION AND CONTROLLING DUST ON THE PROJECT SITE SHALL BE ADDRESSED BY USING THE FOLLOWING METHODS (OR APPROVED EQUAL):
    a. FREQUENT WATERING OF EXCAVATION AND FILL AREAS.
    b. PROVIDE GRAVEL OR PAVING AT ENTRANCE/EXIT DRIVES, PARKING AREAS AND TRANSIT PATHS.
19. ALL TEMPORARY AND PERMANENT EROSION AND SEDIMENT CONTROL PRACTICES MUST BE MAINTAINED AND REPAIRED AS NEEDED TO ASSURE EFFECTIVE PERFORMANCE OF THEIR INTENDED FUNCTION.
20. ALL STORM SEWER FRAMES AND GRATES/LIDS SHALL BE MARKED WITH "DUMP NO WASTE" AND "DRAINS TO CREEK".

1 / C302

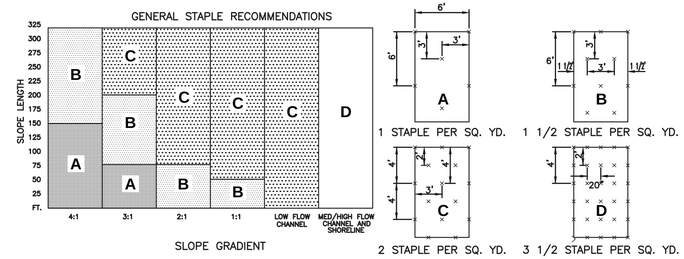


A = KENTUCKY BLUEGRASS @ 90 LBS/AC. MIXED WITH PERENNIAL RYEGRASS @ 30 LBS/AC.
B = KENTUCKY BLUEGRASS @ 135 LBS/AC MIXED WITH PERENNIAL RYEGRASS @ 45 LBS/AC. PLUS 2 TON/AC. STRAW MULCH
C = SPRING OATS @ 100 LBS/AC.
D = WHEAT OR CEREAL RYE @ 150 LBS/AC
E = SOD
F = STRAW MULCH @ 2 TONS/AC.
* = IRRIGATION NEEDED DURING JUNE AND JULY
** = IRRIGATION NEEDED FOR 2-3 WEEKS AFTER APPLYING SOD

REF. = SCS "WATER MANAGEMENT AND SEDIMENT CONTROL FOR URBANIZING AREAS".

TYPICAL SOIL PROTECTION DETAIL
NTS

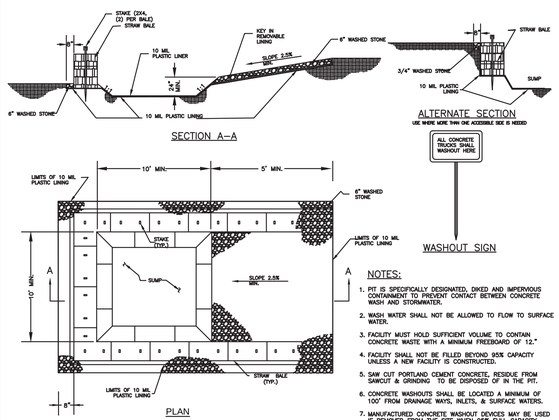
2 / C302



NOTE:
1. CHANNEL LINING UTILIZE STAPLE PATTERN "C" WITH ADDITIONAL STAPLES ON SIDE SLOPES AT PROJECTED WATER LINE.
2. STAPLE PATTERNS APPLY TO ALL NORTH AMERICAN GREEN EROSION CONTROL BLANKETS. STAPLE PATTERNS MAY VERY DEPENDING UPON SOIL TYPE AND AVERAGE RAINFALL.
3. AT SLOPE LENGTHS GREATER THAN 300 FEET OR WHERE DRAINAGE OVER LARGE AREAS IS DIRECTED ONTO THE BLANKETS, STAPLE PATTERN "C" SHOULD BE UTILIZED.
4. EROSION CONTROL MAT SHALL BE PLACED ON ALL DISTURBED AREAS

EROSION CONTROL MAT INSTALLATION GUIDE DETAIL
NTS

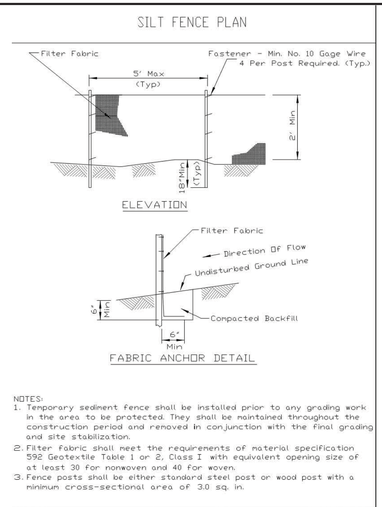
3 / C302



NOTES:
1. PIT IS SPECIFICALLY DESIGNATED, DIKED AND IMPERVIOUS CONTAINMENT TO PREVENT CONTACT BETWEEN CONCRETE WASH AND STORMWATER.
2. WASH WATER SHALL NOT BE ALLOWED TO FLOW TO SURFACE WATER.
3. FACILITY MUST HOLD SUFFICIENT VOLUME TO CONTAIN CONCRETE WASTE WITH A MINIMUM FREEBOARD OF 12."
4. FACILITY SHALL NOT BE FILLED BEYOND 95% CAPACITY UNLESS A NEW FACILITY IS CONSTRUCTED.
5. SAW CUT PORTLAND CEMENT CONCRETE, RESIDUE FROM SAWCUT & GRINDING TO BE DISPOSED OF IN THE PIT.
6. CONCRETE WASHOUTS SHALL BE LOCATED A MINIMUM OF 100' FROM DRAINAGE WAYS, INLETS, & SURFACE WATERS.
7. MANUFACTURED CONCRETE WASHOUT DEVICES MAY BE USED IF REMOVED FROM THE SITE WHEN 95% FULL CAPACITY.

CONCRETE WASHOUT AREA
NTS

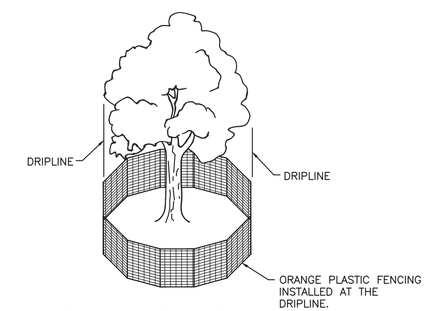
4 / C302



NOTES:
1. Temporary sediment fence shall be installed prior to any grading work in the area to be protected. They shall be maintained throughout the construction period and removed in conjunction with the final grading and site stabilization.
2. Filter fabric shall meet the requirements of material specification 592 Geotextile Table 1 or 2, Class I with equivalent opening size of at least 30 for nonwoven and 40 for woven.
3. Fence posts shall be either standard steel post or wood post with a minimum cross-sectional area of 3.0 sq. in.

REFERENCE			STANDARD DWG. NO.
Project			IUM-620A
Designed	Date		SHEET 1 OF 2
Checked	Date		DATE 3-16-12
Approved	Date		

5 / C302

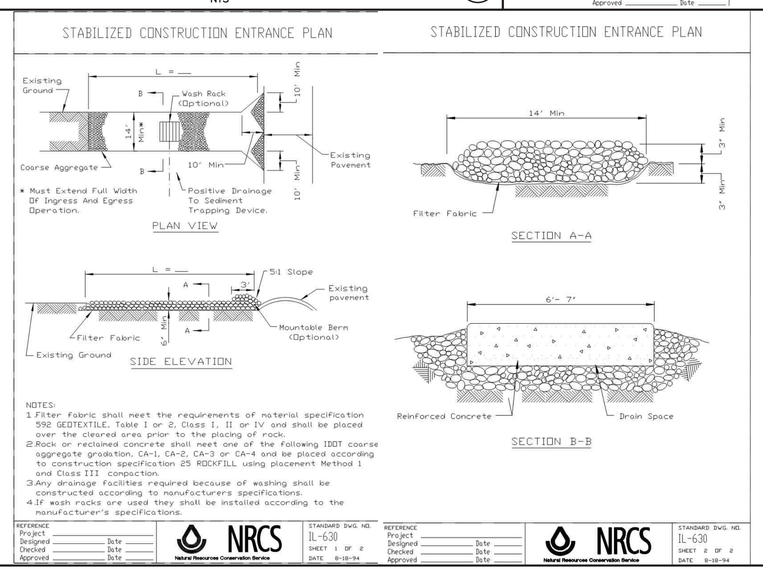


MAINTENANCE GENERAL NOTES:

1 INSPECT AT LEAST ONCE EVERY SEVEN CALENDAR DAYS.
2 REPAIR PERIMETER BARRIERS IF DAMAGED.
3 INSPECT FOR DAMAGE FROM CONSTRUCTION EQUIPMENT, ETC. REPAIR WOUNDS SIMPLY BY REMOVING DAMAGED BARK AND WOOD TISSUE. DO NOT USE TREE PAINT.
4 CABLE AND BRACE ANY TRUNK SPLITS, WEAK FORKS, AND LARGE LIMBS.

TREE PROTECTION DETAIL
NTS

6 / C302



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

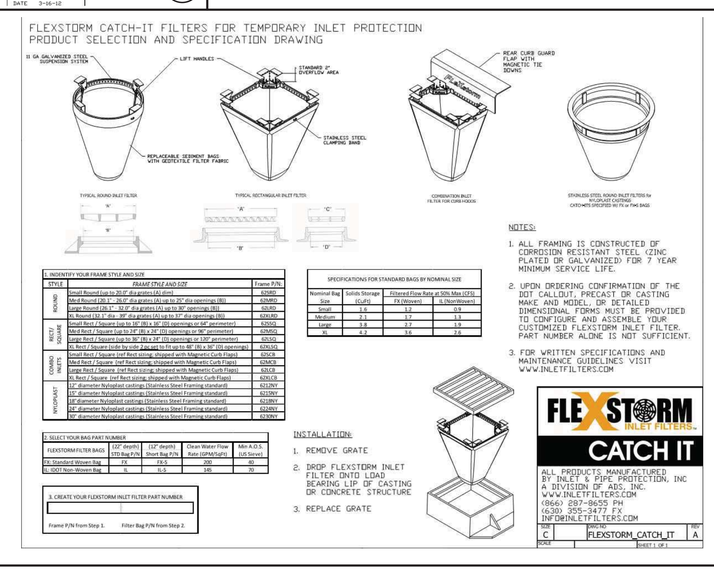
REFERENCE			STANDARD DWG. NO.
Project			IL-630
Designed	Date		SHEET 1 OF 2
Checked	Date		DATE 8-18-94
Approved	Date		

NRCS Natural Resources Conservation Service

REFERENCE			STANDARD DWG. NO.
Project			IL-630
Designed	Date		SHEET 2 OF 2
Checked	Date		DATE 8-18-94
Approved	Date		

NRCS Natural Resources Conservation Service

7 / C302



8 / C302

No.	DATE	REVISION
	08/31/16	ISSUED FOR ARB

PROJECT No: 76561
DATE 06/06/16
DES. BI
DR. DH
CKD. JG

1815 South Meyers Road
Suite 120
Oakbrook Terrace, IL 60181
630.424.9080
FAX: 630.495.3731

WOOLPERT

SITE IMPROVEMENT PLANS THE GARDNER SCHOOL

250 BARCLAY BOULEVARD
LINCOLNSHIRE, ILLINOIS

EROSION CONTROL DETAILS

SHEET NO.
C302

Layout Tab Name: C302 EROSION CONTROL DETAILS, Images: Construction Entrance Page 1.tif: Construction Entrance Page 2.tif: FLEXSTORM_CATCH_IT_SUBMITTAL.tif: MWRD logo.jpg: Silt Fence.tif: , Xrefs: 076561-TBLK.dwg
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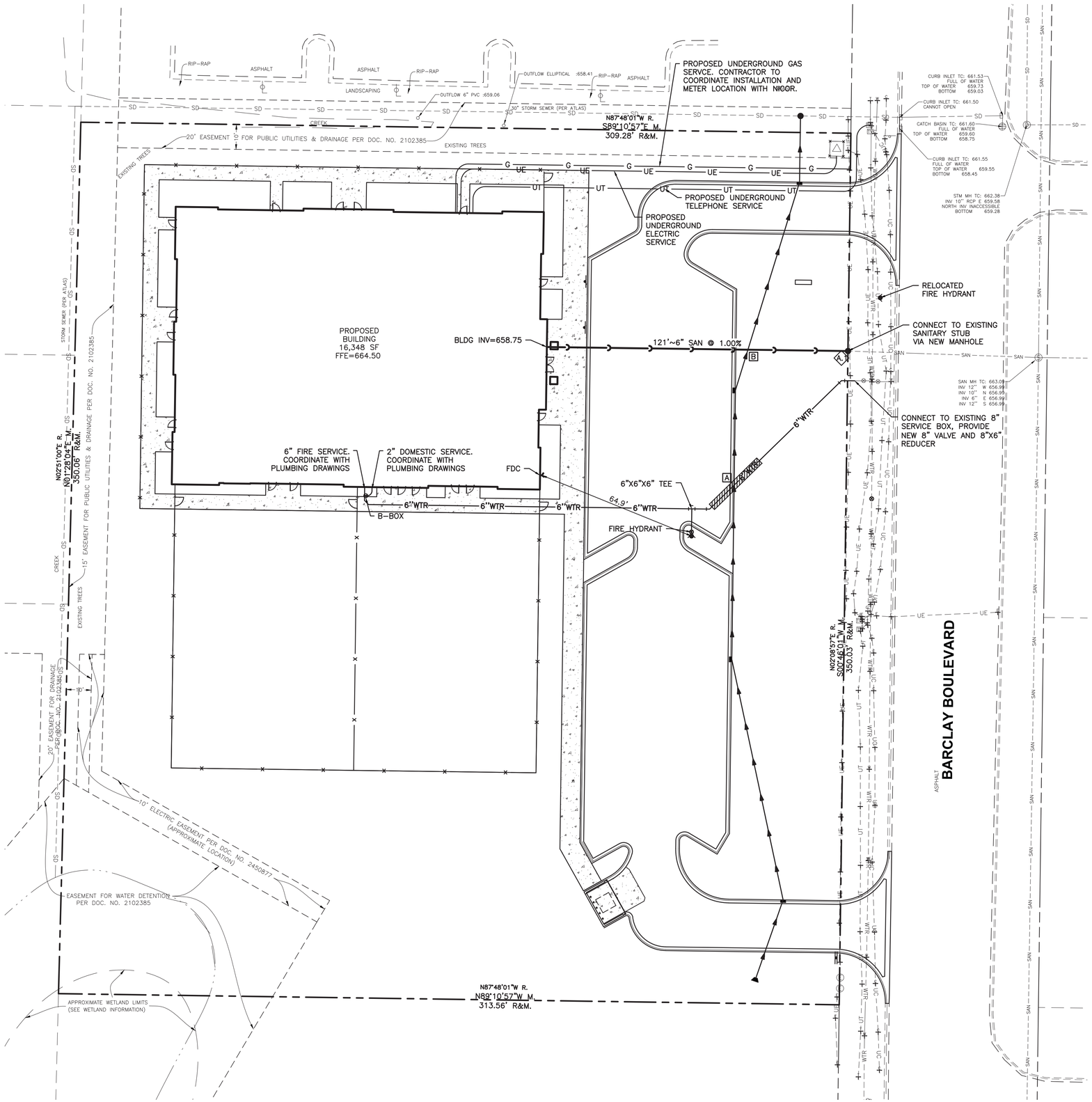

UTILITY LEGEND

- PROPOSED BOUNDARY
- PROPOSED SANITARY SEWER
- PROPOSED STORM DRAIN
- WTR — PROPOSED WATER MAIN
- UE — PROPOSED ELECTRIC
- G — PROPOSED GAS
- UT — PROPOSED TELEPHONE
- PROPOSED UNDERDRAIN
- PROPOSED CATCH BASIN
- PROPOSED CURB INLET
- PROPOSED STORM MANHOLE
- PROPOSED SANITARY MANHOLE
- PROPOSED FLARED END SECTION
- PROPOSED CLEAN OUT
- PROPOSED FIRE HYDRANT
- PROPOSED VALVE
- PROPOSED VALVE VAULT
- PROPOSED WATER PROTECTION AREA
- LIGHT POLES
- A.2 PROPOSED SANITARY STRUCTURE CALLOUT

N

UTILITY NOTES

1. 2~4" SCHEDULE 40 PVC CONDUIT FOR LOCATIONS UNDER PROPOSED PAVEMENT. CONTRACTOR TO COORDINATE WITH UTILITY PROVIDER FOR ELECTRIC SERVICE AND CONNECTION TO TRANSFORMER.
2. CONTRACTOR TO COORDINATE WITH UTILITY PROVIDER FOR NATURAL GAS SERVICE.
3. 1~4" SCHEDULE 40 PVC CONDUIT FOR LOCATIONS UNDER PROPOSED PAVEMENT. CONTRACTOR TO COORDINATE WITH UTILITY PROVIDER FOR TELEPHONE SERVICE.

SANITARY STRUCTURE TABLE

STRUCTURE ID	DESCRIPTION	RIM	INVERT
A.1	SANITARY MH	661.71	6" = 657.54 (W) 6" = 657.37 (E)

UTILITY CROSSINGS

FINISH GRADE=663.18
[A] 12" STORM B/PIPE=659.04
6" WATER T/PIPE=657.54 — 1.50' **

FINISH GRADE=662.94
[B] 12" STORM B/PIPE=658.76
6" SAN T/PIPE=658.53 — 0.23'

** PROVIDE WATER MAIN PROTECTION

BENCHMARK:

THE BASIS OF ELEVATIONS HEREON IS NAVD 88. IRON ROD SET – SEE DRAWING FOR LOCATION.

ELEVATION = 662.66'

Call Before You Dig
JULIE ILLINOIS ONE-CALL SYSTEM
Simply Call 811

0 20 40 60
GRAPHIC SCALE IN FEET

No.	DATE	REVISION
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FINAL

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SITE IMPROVEMENT PLANS THE GARDNER SCHOOL

250 BARCLAY BOULEVARD
LINCOLNSHIRE, ILLINOIS

UTILITY PLAN

SHEET NO.
C400

Layout Tab Name: C400 UTILITY PLAN, Images: lincolnshire aerial.jpg: MAP.png: , Xrefs: 076561-TBLK.dwg; 076561-X.dwg; 076561-P.dwg
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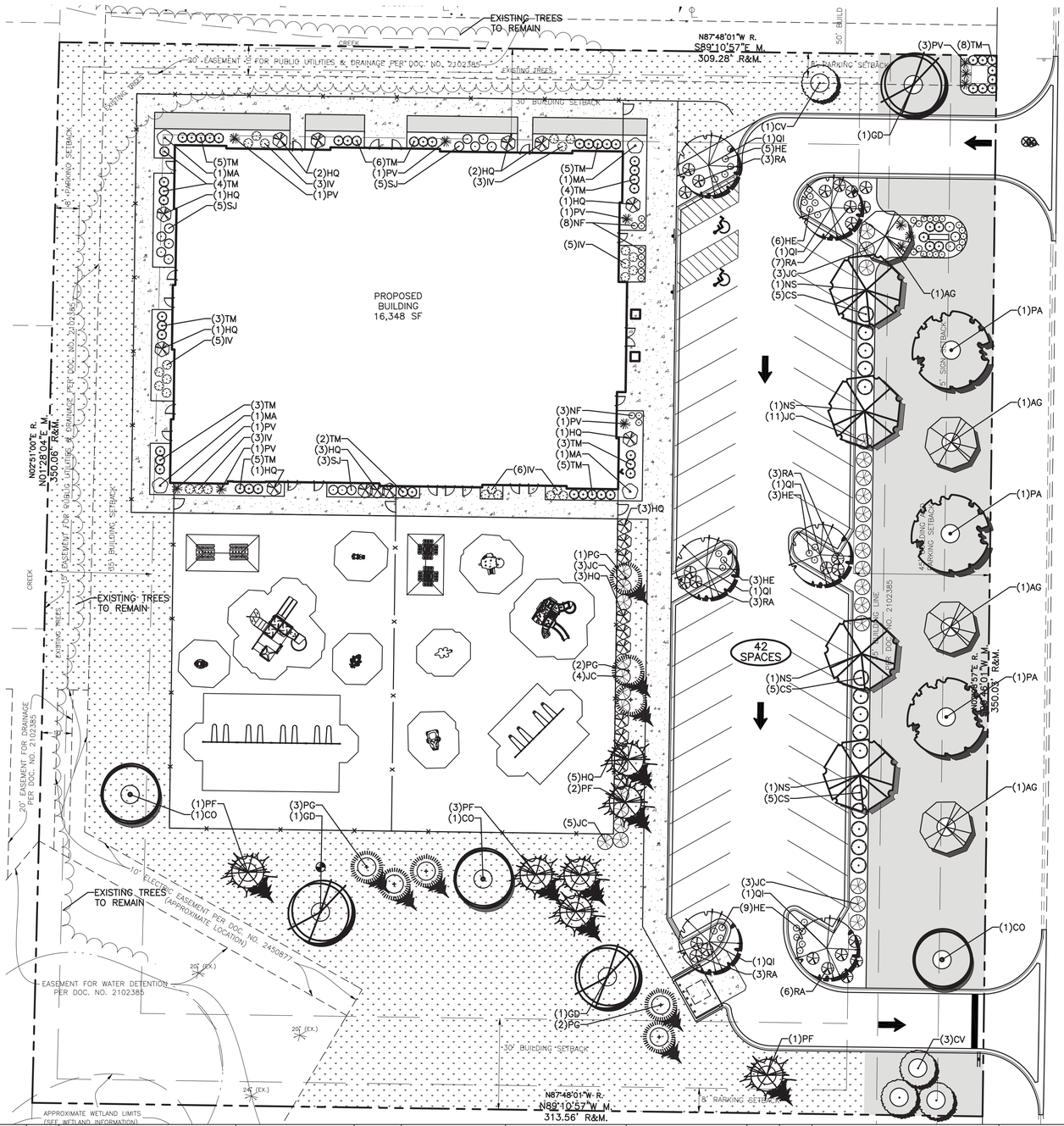

LANDSCAPE CODE SUMMARY

PARKING LOT SCREEN
A MINIMUM OF 50% OF LINEAR LENGTH OF PARKING FACILITIES VISIBLE FROM THE PUBLIC WAY SHALL BE SCREENED BY A DIVERSITY OF SHRUBS AND TREES

281 LF OF PARKING LOT
= 140.5 LF OF SHRUBS AND TREES REQUIRED
= 200 LF, 4 SHADE TREES & 27 SHRUBS PROVIDED

PARKING LOT ISLANDS
A MINIMUM OF ONE DECIDUOUS SHADE TREE PLANTED IN EVERY PARKING LOT ISLAND WITH UNDERSTORY SHRUBS, PERENNIALS, AND OTHER PLANT MATERIALS

6 PARKING LOT ISLANDS
= 6 SHADE TREES WITH SHRUBS AND PERENNIALS REQUIRED
= 6 SHADE TREES, 18 SHRUBS, & 26 PERENNIALS PROVIDED

GREENSPACE TREES PER ACRE
PROVIDE SIX 4.5" CAL. DECIDUOUS SHADE TREES, SIX 2.5" CAL. DECIDUOUS SHADE TREES, FOUR 8.5' HT. ORNAMENTAL TREES, FOUR 6' ORNAMENTAL TREES, FIVE 10' HT. EVERGREEN TREES, & FIVE 8' HT. EVERGREEN TREES.

1.2 ACRES OF GREENSPACE
= (6) 4.5" CAL. SHADE TREES
(6) 2.5" CAL. SHADE TREES
(4) 8.5' HT. ORNAMENTAL TREES
(4) 6' HT. ORNAMENTAL TREES
(5) 10' HT. EVERGREEN TREES
(5) 8' HT. EVERGREEN TREES REQUIRED

= (3) EXISTING TREES OVER 4.5" CAL.
(3) 4.5" CALL SHADE TREES
(6) 2.5" CAL. SHADE TREES
(4) 8.5' HT. ORNAMENTAL TREES
(4) 6' HT. ORNAMENTAL TREES
(5) 10' HT. EVERGREEN TREES
(5) 8' HT. EVERGREEN TREES PROVIDED

SEEDING & SOD MIX

SEED MIX 26,673 SF

SOD MIX 11,900 SF

KY BLUEGRASS	30 LBS/ACRE
PERENNIAL RYEGRASS	10 LBS/ACRE
DAWSONS RED FESCUE	10 LBS/ACRE
SCALDIS HARD FESCUE	10 LBS/ACRE
FULTS SALT GRASS	30 LBS/ACRE

LANDSCAPE NOTES

1. LOCATING AND PROTECTING ALL UNDERGROUND UTILITIES, PRIOR TO DIGGING, IS RESPONSIBILITY OF THE LANDSCAPE CONTRACTOR.
2. PRIOR TO INSTALLATION, THE LANDSCAPE CONTRACTOR SHALL INSPECT THE SUB GRADE, GENERAL SITE CONDITIONS, VERIFY ELEVATIONS, UTILITY LOCATIONS, IRRIGATION, APPROVE TOPSOIL PROVIDED BY GENERAL CONTRACTOR AND OBSERVE THE SITE CONDITIONS UNDER WHICH THE WORK IS TO BE DONE. NOTIFY GENERAL CONTRACTOR OF ANY UNSATISFACTORY CONDITIONS. WORK SHALL NOT PROCEED UNTIL SUCH CONDITIONS HAVE BEEN CORRECTED AND ARE ACCEPTABLE TO THE LANDSCAPE CONTRACTOR AND/OR CONSTRUCTION MANAGER.
3. GENERAL AND LANDSCAPE CONTRACTOR ARE RESPONSIBLE FOR PROTECTING EXISTING TREES FROM DAMAGE DURING CONSTRUCTION. GENERAL CONTRACTOR TO INSTALL TREE PROTECTION FENCING PRIOR TO ANY SITE WORK.
4. ALL SHRUB AND GROUNDCOVER BEDS TO BE MULCHED WITH A MINIMUM OF 3 INCHES OF CLEAN SHREDDED HARDWOOD MULCH.
5. PLANTING HOLES TO BE DUG A MINIMUM OF TWICE THE WIDTH AND 6–12 INCHES DEEPER THAN THE SIZE OF THE ROOT BALL OF BOTH SHRUB AND TREE. AMEND BACKFILL WITH TOPSOIL MIX. BACKFILL AND TAMP BOTTOM OF HOLE PRIOR TO PLANTING SO TOP OF ROOT BALL DOES NOT SETTLE BELOW SURROUNDING GRADE.
6. TOPSOIL MIX TO BE 4 PARTS SCREENED TOPSOIL AND 1 PART ORGANIC MATERIAL (i.e. NATURE'S HELPER OR PRO MIX).
7. EXISTING GRASS IN PROPOSED PLANTING AREAS TO BE REMOVED AND AREA TO BE HAND RAKED TO REMOVE ALL ROCKS AND DEBRIS LARGER THAN 1 INCH IN DIAMETER PRIOR TO PLANTING SHRUBS.
8. SOIL TO BE TESTED TO DETERMINE FERTILIZER AND LIME REQUIREMENTS. LIME AND FERTILIZER TO BE DISTRIBUTED PRIOR TO LAYING SOD.
9. SOD TO BE DELIVERED FRESH (CUT LESS THAN 24 HOURS PRIOR TO ARRIVING ON SITE), LAID IMMEDIATELY, ROLLED AND WATERED THOROUGHLY WITHIN ONE HOUR OF INSTALLATION.
10. ALL CHANGES TO DESIGN AND/OR PLANT SUBSTITUTIONS TO BE AUTHORIZED BY LANDSCAPE ARCHITECT.
11. ALL PARKING ISLANDS TO BE BERMED UP 6"–10" WITH CLEAN FRIABLE TOPSOIL PRIOR TO PLANTING.
12. ALL LANDSCAPING SHALL BE INSTALLED IN CONFORMANCE WITH ANSI Z60.1 THE AMERICAN STANDARD FOR NURSERY STOCK, AND THE ACCEPTED STANDARDS OF THE AMERICAN ASSOCIATION OF NURSERYMEN.
13. SITE TO BE 100% IRRIGATED BY AN AUTOMATIC UNDERGROUND IRRIGATION SYSTEM.
14. THE LANDSCAPE CONTRACTOR SHALL GUARANTEE ALL PLANTS INSTALLED FOR ONE FULL YEAR FROM DATE OF ACCEPTANCE BY THE OWNER. ALL PLANTS SHALL BE ALIVE AND AT A VIGOROUS RATE OF GROWTH AT THE END OF THE GUARANTEE PERIOD. THE LANDSCAPE CONTRACTOR SHALL NOT BE RESPONSIBLE FOR ACTS OF GOD OR VANDALISM.
15. ANY PLANT THAT IS DETERMINED DEAD, IN AN UNHEALTHY OR UNSIGHTLY CONDITION, LOST ITS SHAPE DUE TO DEAD BRANCHES OR OTHER SYMPTOMS OF POOR, NON–VIGOROUS GROWTH SHALL BE REPLACED BY THE LANDSCAPE CONTRACTOR WITH THE COST OF THE REPLACEMENT INCLUDED IN THE BID OR PROPOSAL PRICE.
16. WATER THOROUGHLY TWICE IN THE FIRST 24 HOURS AND APPLY MULCH IMMEDIATELY.
17. NO MORE THAN TWENTY–FIVE PERCENT (25%) OF LANDSCAPE BEDS WILL BE LEFT UNPLANTED.

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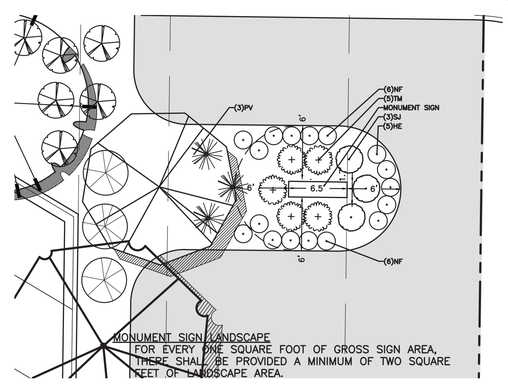
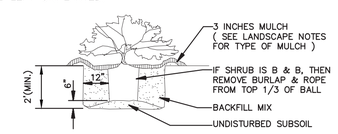


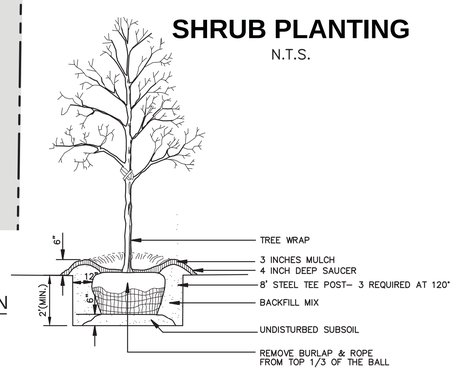
MONUMENT SIGN LANDSCAPE
FOR EVERY ONE SQUARE FOOT OF GROSS SIGN AREA, THERE SHALL BE PROVIDED A MINIMUM OF TWO SQUARE FEET OF LANDSCAPE AREA.

74 SF OF GROSS SIGN AREA
= 148 SF OF LANDSCAPE AREA REQUIRED
= 217 SF OF LANDSCAPE AREA PROVIDED

1 MONUMENT SIGN LANDSCAPE PLAN
SCALE: 1" = 5'–0"



SHRUB PLANTING
N.T.S.



NOTE: SEE LANDSCAPE NOTES FOR THE TYPE OF MULCH MATERIAL TO USE.

TREE PLANTING
N.T.S.

TAG	QTY	SCIENTIFIC NAME	COMMON NAME	COND.	SIZE	REMARKS	BLOOM TIME
SHADE TREE							
CO	3	Celtis occidentalis 'Prairie Pride'	Prairie Pride Hackberry	B&B	2.5" cal. 14'ht. 7'wd	Full, well shaped	April to May
GD	3	Gymnocladus dioica 'Espresso'	Fruitless KY Coffeetree	B&B	2.5" cal. 14'ht. 7'wd	Full, well shaped	May to June
NS	4	Nyssa sylvatica	Black Gum	B&B	2.5" cal. 14'ht. 7'wd	Full, well shaped	May to June
PA	3	Platanus x acerifolia 'Morton Circle'	Exclamation London Planetree	B&B	4.5" cal. 20'ht. 10'wd	Full, well shaped	April
QI	6	Quercus imbricaria	Shingle Oak	B&B	2.5" cal. 14'ht. 7'wd	Full, well shaped	April
ORNAMENTAL / EVERGREEN TREE							
AG	4	Amelanchier x grandiflora 'Autumn Brilliance'	Apple Serviceberry	B&B	8.5'ht. 5'wd.	Full, well shaped, single–stem	April
CV	4	Crataegus viridis 'Winter King'	Winter King Hawthorn	B&B	6'ht. 4'wd.	Full, well shaped, single–stem	May
PG	8	Picea glauca 'Densata'	Black Hills Spruce	B&B	8'ht. x 4'wd.	Full to ground, well shaped	
PF	7	Pinus flexilis	Limber Pine	B&B	10'ht. x 5'wd.	Full to ground, well shaped	
EVERGREEN SHRUB							
JC	29	Juniperus chinensis 'Sea Green'	Sea Green Juniper	B&B	24"ht. x 24"wd.	Full, vigorous	
TM	56	Taxus x media 'Densiformis'	Dense Yew	B&B	18"ht. x 18"wd.	Full, vigorous	

TAG	QTY	SCIENTIFIC NAME	COMMON NAME	COND.	SIZE	REMARKS	BLOOM TIME
DECIDUOUS SHRUB							
CS	15	Cornus sericea 'Isanti'	Red Twig Dogwood	B&B	24"ht. x 24"wd.	Full, vigorous	May to June
HQ	23	Hydrangea paniculata 'Tardiva'	Tardiva Hydrangea	B&B	24"ht. x 24"wd.	Full, vigorous	July to September
IV	25	Itea virginica 'Little Henry'	Little Henry Sweetspire	#3 cont.	18"ht. x 18"wd.	Full, vigorous	June to July
MA	4	Magnolia stellata 'Royal Star'	Royal Star Magnolia	B&B	48"ht. x 24"wd.	Full, vigorous	March
SJ	16	Spiraea japonica 'Little Princess'	Little Princess Spirea	#3 cont.	12"ht. x 18"wd.	Full, vigorous	May to July
RA	25	Rhus aromatica 'Gro–Low'	Gro–Low Fragrant Sumac	#3 cont.	12"ht. x 18"wd.	Full, vigorous	April to May
ORNAMENTAL GRASS							
PV	12	Panicum virgatum 'Red Ribbons'	Red Ribbons Switchgrass	#2 cont.		Full, vigorous	July to February
PERENNIAL / ANNUAL COLOR							
HE	31	Hemerocalis 'Happy Returns'	Happy Returns Daylily	#1 cont.			June to October
NF	23	Nepeta x fassennii 'Walker's Low'	Walker's Low Catmint	#1 cont.			April to September

* QUANTITIES ARE PROVIDED FOR CONVENIENCE ONLY. CONTRACTOR IS RESPONSIBLE FOR ALL QUANTITIES OF PLANTS ON LANDSCAPE PLAN.

BENCHMARK:

THE BASIS OF ELEVATIONS HEREON IS NAVD 88. IRON ROD SET – SEE DRAWING FOR LOCATION.

ELEVATION = 662.66'

0 20 40 60
GRAPHIC SCALE IN FEET

Call Before You Dig
JULIE ILLINOIS ONE-CALL SYSTEM
Simply Call 811

No.	DATE	REVISION
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SITE IMPROVEMENT PLANS THE GARDNER SCHOOL
250 BARCLAY BOULEVARD
LINCOLNSHIRE, ILLINOIS

LANDSCAPE PLAN

SHEET NO.
C500

Layout Tab Name: C500 LANDSCAPE PLAN, Images: lincolnshire aerial.jpg: MAP.png: , Xrefs: 076561–TBLK.dwg; 076561–X.dwg; 076561–P.dwg
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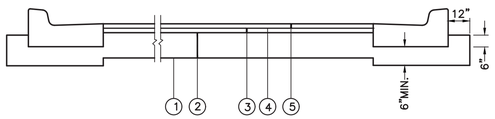
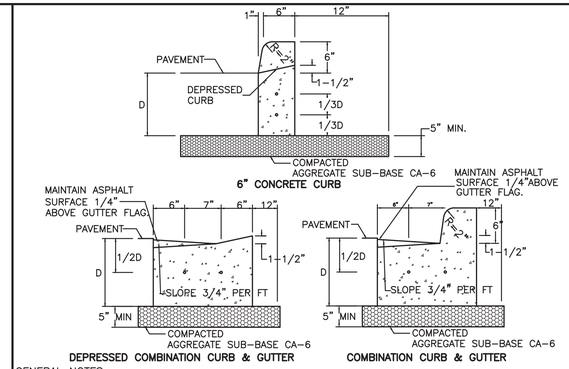


1. SECTION 301 ~ SUBGRADE COMPACTION
2. SECTION 351 ~ AGGREGATE BASE CA-6 (12" COURSE – LIGHT DUTY) (13" COURSE – HEAVY DUTY) INCLUDING UNDER AND 1' BEYOND CURB.
3. SECTION 406 ~ BITUMINOUS CONCRETE BINDER COURSE, CLASS 1 TYPE 2 (1.5" COURSE MIN. – LIGHT DUTY) (3.0" COURSE MIN. – HEAVY DUTY)
4. SECTION 403 ~ TACK COAT @ 0.05 TO 0.10 GAL/SY
5. SECTION 406 ~ BITUMINOUS CONCRETE SURFACE COURSE, CLASS 1 TYPE 2 (1.5" COURSE MIN. – LIGHT DUTY) (1.5" COURSE MIN. – HEAVY DUTY)

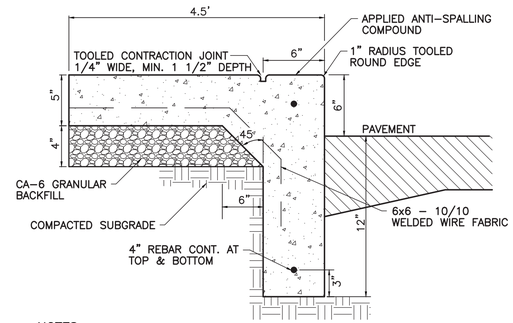
NOTES
1) ALL ITEM NUMBERS REFER TO STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION. STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.

PAVEMENT SECTION DETAIL
NTS
1 C600



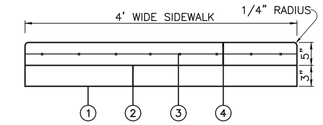
GENERAL NOTES:
1. 3/4" PREFORMED BITUMINOUS EXPANSION JOINT MATERIAL WITH TWO #6 COATED SMOOTH DOWEL BARS (3/4" DIAMETER X 18") WITH GREASED CAPS SHALL BE PLACED EVERY 45 FEET. THEY SHALL ALSO BE PLACED AT 10' EITHER SIDE OF DRAINAGE STRUCTURES, P.C.'S, RADIUS POINTS, AND BACK OF CUL-DE-SACS. WHEN EXPANSION JOINTS ARE CONSTRUCTED ADJACENT TO EXISTING CURB AND GUTTER, THE EXISTING CURB SHALL BE DRILLED, AND TWO # 6 COATED SMOOTH DOWEL BARS (3/4" DIAMETER x 18") SHALL BE GROUTED IN PLACE. GREASE CAPS SHALL BE PLACED ON THE SIDE OF THE NEW CURB AND GUTTER AND SHALL HAVE A PINCHED STOP THAT WILL PROVIDE A MINIMUM 1" EXPANSION.
2. TOOLED CONTROL JOINTS OR SAWCUTS SHALL BE MADE EVERY 15 FEET.
3. SAWCUTS SHALL BE MADE WITHIN TWENTY-FOUR (24) HOURS AND SEALED WITH JOINT SEALANT. JOINTS SHALL BE CLEAN AND DRY PRIOR TO APPLICATION OF SEALANT.
4. TWO (2) #4 REBARS SHALL BE PLACED CONTINUEOUS THROUGHOUT THE CURB AND GUTTER.

B6.12 CURB AND GUTTER DETAIL
NTS
2 C600



NOTES:
1. CONTRACTION JOINTS TO BE A MINIMUM OF 1 1/2" DEEP.
2. SEE CONCRETE WALK SECTION FOR LOCATION OF JOINTS.
3. FULL DEPTH SEPARATORS ARE NOT PERMITTED EXCEPT AT EXPANSION JOINTS.

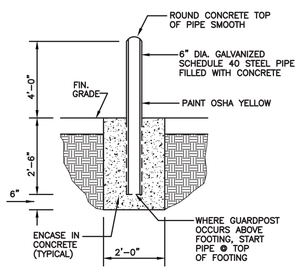
INTERGRAL SIDEWALK AND CURB DETAIL
NTS
3 C600



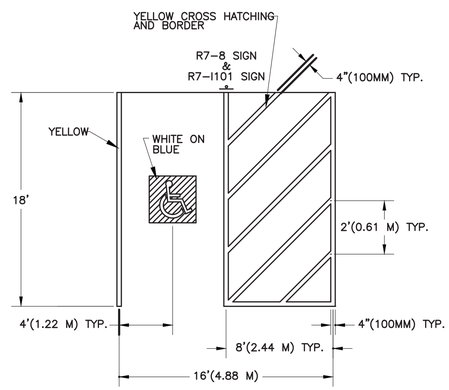
1. SUBGRADE COMPACTION
2. AGGREGATE BASE, 3" COURSE
3. 1~LAYER ~ 6 x 6, W1.4 x W1.4 W.W.F.
4. 5" CONCRETE, 4000 psi @ 28 DAYS

NOTES:
1. CONTRACTION JOINTS EVERY 5'-0" c/c, EXPANSION JOINTS EVERY 25'-0" c/c. EXPANSION JOINTS TO BE SEALED WITH CAULK PER SPECIFICATIONS.
2. (3) #5 REBARS ARE REQUIRED AT ALL TRENCH CROSSINGS.

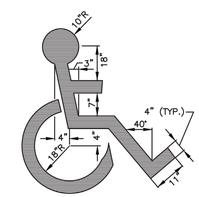
CONCRETE SIDEWALK DETAIL
NTS
4 C600



BOLLARD DETAIL
NTS
5 C600



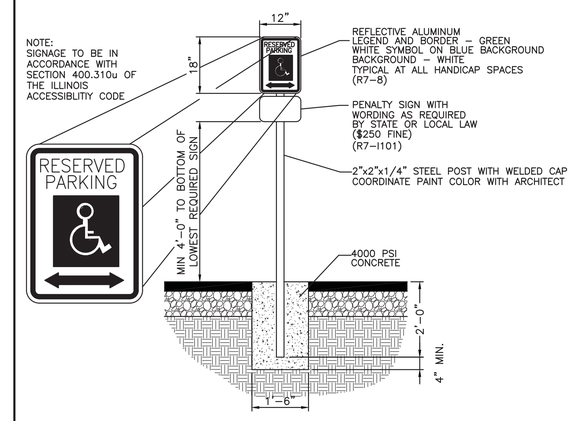
ACCESSIBLE PARKING SPACE MARKINGS DETAIL
NTS
6 C600



NOTE: SYMBOL TO BE CENTERED ON WIDTH OF PARKING STALL. SYMBOLS ARE REQUIRED TO CONTRAST WITH BACKGROUND. (COLOR NO. 105090 IN FEDERAL STANDARDS 595a) DOUBLE COAT. (TYP.) SYMBOL SHALL MEET ILLINOIS ACCESSIBILITY CODE AND THE AMERICANS WITH DISABILITIES ACT CRITERIA.

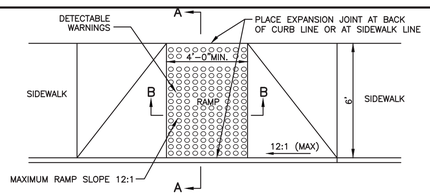
ACCESSIBLE PARKING PAVEMENT SYMBOL DETAIL
NTS
7 C600

NOTE:
SIGNAGE TO BE IN ACCORDANCE WITH SECTION 400.310u OF THE ILLINOIS ACCESSIBLITIY CODE

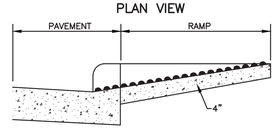


ONE AT EACH HANDICAP SPACE.

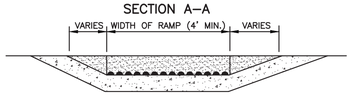
ACCESSIBLE PARKING SIGN
NTS
8 C600



PLAN VIEW



SECTION A–A

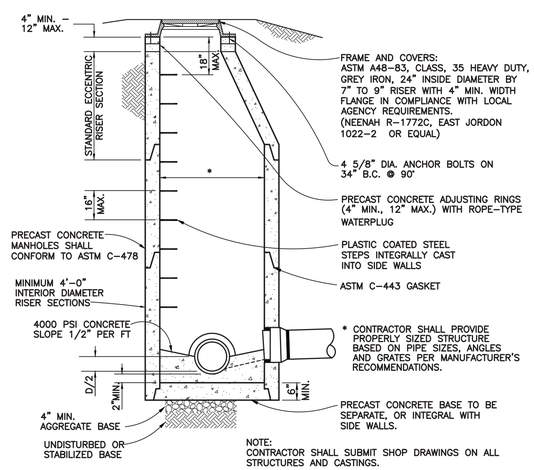


SECTION B–B

NOTE: DETECTABLE WARNINGS ON WALKING SURFACES SHALL CONSIST OF RAISED TRUNCATED DOMES WITH A DIAMETER OF NOMINAL 0.9 INCHES, A HEIGHT OF NOMINAL 0.2 INCHES AND A CENTER-TO-CENTER SPACING OF NOMINAL 2.35 INCHES AND SHALL CONTRAST VISUALLY WITH ADJOINING SURFACES, EITHER LIGHT-ON-DARK, OR DARK-ON-LIGHT.

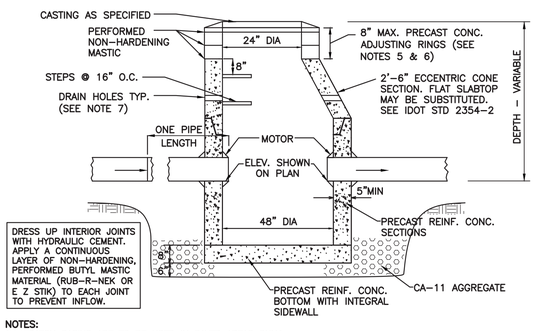
THE MATERIAL USED TO PROVIDE CONTRAST SHALL BE AN INTEGRAL PART OF THE WALKING SURFACE. DETECTABLE WARNINGS USED ON INTERIOR SURFACES SHALL DIFFER FROM ADJOINING WALKING SURFACES IN RESILIENCY OR SOUND-ON-CANE CONTACT.

SIDEWALK RAMP DETAIL
NTS
9 C600



NOTE:
CONTRACTOR SHALL SUBMIT SHOP DRAWINGS ON ALL STRUCTURES AND CASTINGS.

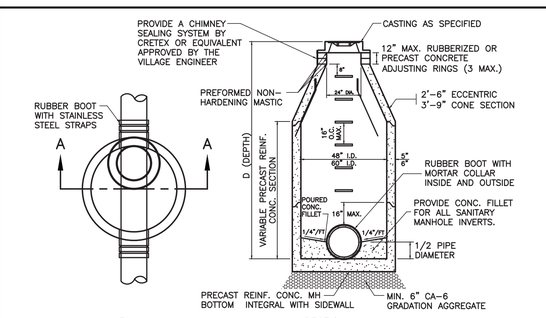
STANDARD STORM MANHOLE DETAIL
NTS
10 C600



DRESS UP INTERIOR JOINTS WITH HYDRAULIC CEMENT. APPLY A CONTINUOUS LAYER OF NON-HARDENING, PERFORMED BUTYL MASTIC MATERIAL (RUB-R-NEK OR E Z STIK) TO EACH JOINT TO PREVENT INFLOW.

NOTES:
1. CATCH BASINS ARE TO BE USED IN PAVED AREAS ONLY.
2. PROVIDE SELECT GRANULAR BACKFILL, CA-11 AROUND CATCH BASIN TO SUBGRADE ELEVATION.
3. ALTERNATE CATCH BASIN BOTTOM-PRECAST REINFORCED CONCRETE BASE.
4. CONCRETE FILLETS SHALL BE MADE WITH NON-SHRINK MORTAR TO PROVIDE A SMOOTH TRANSITION BETWEEN THE CASTING AND ADJUSTING RING (OR TOP OF STRUCTURE)
5. WHEN ADJUSTING ARE NECESSARY, THEY WILL BE PERFORMED WITH A MAXIMUM OF TWO (2) PRECAST CONCRETE RINGS SET IN A BED OF PERFORMED NON-HARDENING MASTIC (RUB-R-NEK OR APPROVED EQUAL) TO A MAX. HEIGHT OF EIGHT INCHES. TWO (2) INCHES RINGS SHALL ONLY BE USED WHEN ADJUSTMENT IS LESS THAN THREE (3) INCHES
6. NO MORTAR SHALL BE USED TO DRESS UP INTERIOR JOINTS OF ADJUSTING RINGS.
7. A MIN. OF FOUR (4), TWO (2) INCHES DIAMETER BRAIN HOLES SHALL BE PROVIDED WITHIN ONE (1) FOOT OF THE LOWEST PIPE INVERT. THE HOLES SHALL BE DISTRIBUTE EQUIDISTANT AROUND THE PERIMETER OF THE STRUCTURE. A ONE (1) FOOT BY ONE (1) FOOT SECTION OF UNDERDRAIN FILTER CLOTH MATERIAL SHALL BE SUFFICIENTLY FIXED TO THE OUTSIDE OF THE CATCH BASIN WITH MASTIC MATERIAL TO PREVENT SLIPPAGE DURING BACKFILLING. THE HOLE SHALL BE EITHER PRECAST OF DRILLED. DRAIN HOLES ARE REQUIRED FOR ALL CATCH BASINS.

CATCH BASIN – TYPE A
NTS
11 C600



PLAN SECTION A–A

GENERAL NOTES:
1. PROVIDE PRECAST REINFORCED CONCRETE BARREL AND RISER SECTION. CONCRETE BLOCK CONSTRUCTION IS NOT PERMITED.
2. PROVIDE SELECT GRANULAR BACKFILL AROUND MANHOLE TO SUBGRADE ELEVATION IN PAVED AREAS. MATERIAL SHALL MEET THE REQUIREMENTS OF IDOT "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" COARSE AGGREGATE CA-6 GRADATION, OR AS OTHERWISE DIRECTED BY THE VILLAGE ENGINEER.
3. APPLY A CONTINUOUS LAYER OF NON-HARDENING PREFORMED BITUMINOUS MASTIC MATERIAL (RUB-R-NEK OR EZ STICK) TO EACH JOINT TO PREVENT INFLOW.
4. WHEN THE FRAME DOES NOT MEET PROPOSED ELEVATION, A MINIMUM OF TWO PARTS RUBBERIZED ADJUSTING RINGS SHALL BE USED FOR FINAL ADJUSTMENT. ONE CONCRETE RING NOT LESS THAN TWO INCHES THICK MAY ALSO BE USED. A MAXIMUM OF THREE ADJUSTING RINGS MAY BE USED TO A MAXIMUM HEIGHT OF 12 INCHES: THE RING(S) AND FRAME SHALL BE SET ON A BED OF PREFORMED NON-HARDENING MASTIC (RUB-R-NEK OR APPROVED EQUAL).
5. PRECAST ADJUSTING RINGS SHALL BE REINFORCED WITH NO. 3 GUAGE WIRE OR EQUIVALENT.
6. MORTAR SHALL NOT BE USED TO DRESS UP ADJUSTING RINGS AND/OR FRAME.
7. ONLY PLASTIC POLYMER STEPS SHALL BE USED.
8. WHEN MANHOLE DEPTH IS OVER 12 FEET, THE THICKNESS OF THE BASE SHALL BE A MINIMUM OF 10 INCHES. WHEN MANHOLE DEPTH IS LESS THAN 12 FEET, THE THICKNESS SHALL BE A MINIMUM OF 8 INCHES.
9. DRESS UP INTERIOR JOINTS WITH HYDRAULIC CEMENT.
10. SANITARY MANHOLES SHALL BE CONSTRUCTED WITH A CHIMNEY SEALING SYSTEM BY CRETEX OR AN EQUAL APPROVED BY THE VILLAGE.

SANITARY MANHOLE DETAIL
NTS
12 C600

No.	DATE	REVISION
	08/31/16	ISSUED FOR ARB

SEAL

PROJECT No: 76561
DATE 06/06/16
DES. BI
DR. DH
CKD. JG

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630.424.9080
FAX: 630.495.3731
WOOLPERT

SITE IMPROVEMENT PLANS THE GARDNER SCHOOL
250 BARCLAY BOULEVARD
LINCOLNSHIRE, ILLINOIS

DETAILS

SHEET NO.
C600

Layout Tab Name: C600 DETAILS, Images: MWRD logo.jpg: , Xrefs: 076561-TBLK.dwg
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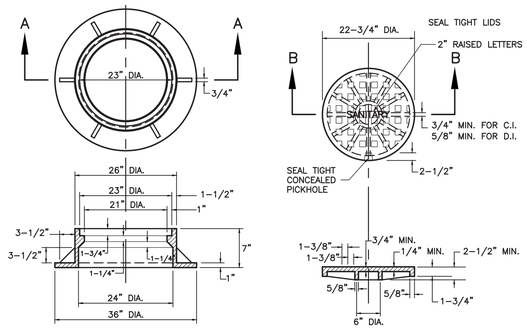
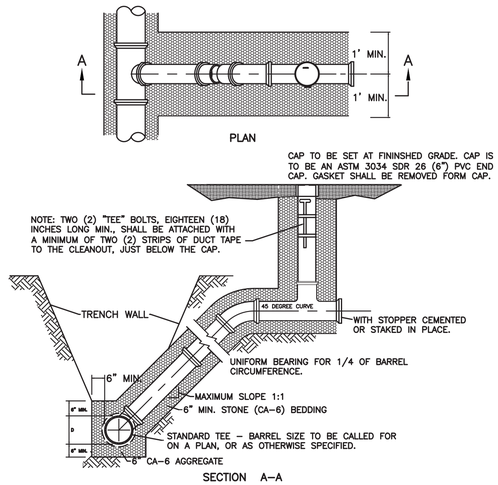


SECTION A–A
CAST FRAME

SECTION B–B
CAST CLOSED LID
(SEAL TIGHT CONCEALED PICKHOLE)

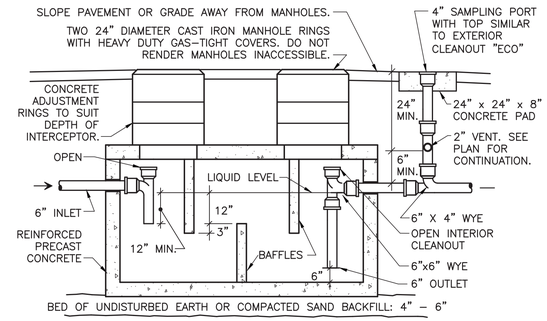
GENERAL NOTES:
1. DUCTILE IRON CASTING SHALL BE TESTED IN ACCORDANCE WITH FEDERAL SPECIFICATIONS.
2. ALL FRAMES AND COVERS SHALL HAVE A MACHINED HORIZONTAL AND VERTICAL BEARING SURFACES. PICK HOLES IN THE COVER SHALL NOT BE OPEN.
3. THE MANHOLE COVERS SHALL HAVE RAISED LETTERS AS SHOWN.
4. DIMENSIONS FOR CASTINGS ARE COMPARABLE TO EAST JORDAN IRON WORKS, INC. 1022–3 OR NEENAH FOUNDRY 1772–C FURNISHED WITH TYPE F CONCEALED PICK HOLES.
5. WATERPROOF, BOLTDOWN FRAME AND COVER SHALL BE USED IN ANY LOCATION SUBJECT TO INUNDATION. (NEENAH R–1916–F, EAST JORDAN 1022–3 WT WITH TYPE 5 CLOSED PICK HOLES OR APPROVED EQUAL).

SANITARY MANHOLE FRAME AND COVER DETAIL
NTS
1 / C601



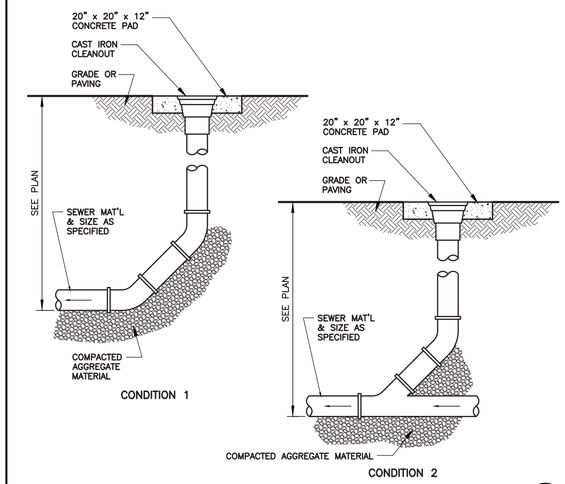
SECTION A–A

SERVICE LATERAL RISER WITH CLEANOUT DETAIL
NTS
2 / C601

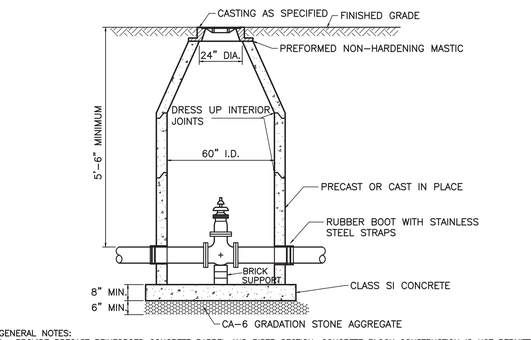


NOTE:
PIPING ARRANGEMENT SHOWN IN SCHEMATIC. ADJUST TO SUIT FIELD CONDITIONS. CONTRACTOR SHALL SUBMIT PROPOSED GREASE INTERCEPTOR INSTALLATION PLANS AND SPECIFICATIONS TO LOCAL AUTHORITIES FOR THEIR APPROVAL BEFORE ACQUISITION OF INTERCEPTOR. PROVIDE CAPACITY AS REQUIRED BY LOCAL AUTHORITIES.

PRECAST CONCRETE GREASE INTERCEPTOR DETAIL
NTS
3 / C601

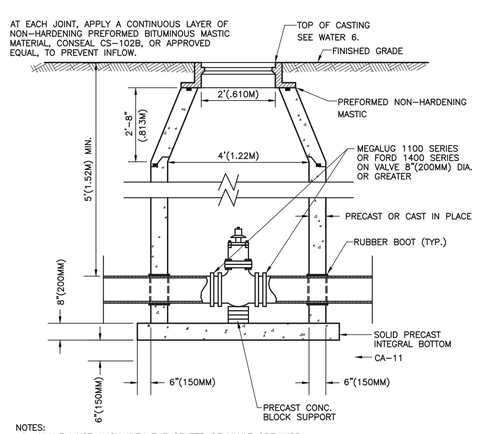


STANDARD CLEANOUT DETAIL
NTS
4 / C601



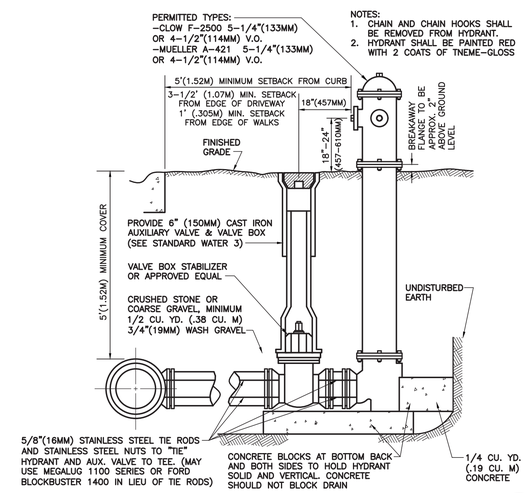
GENERAL NOTES:
1. PROVIDE PRECAST REINFORCED CONCRETE BARREL AND RISER SECTION. CONCRETE BLOCK CONSTRUCTION IS NOT PERMITTED.
2. PROVIDE TRENCH BACKFILL, CA–6 GRADATION, AROUND MANHOLE TO SUBGRADE ELEVATION IN PAVED AREAS.
3. APPLY A CONTINUOUS LAYER OF NON–HARDENING PREFORMED BITUMINOUS MASTIC MATEERIAL (RUB–R–NEK OR E Z STICK) TO EACH JOINT TO PREVENT INFLOW.
4. WHEN THE FRAME DOES NOT MEET PROPOSED ELEVATION, A MINIMUM OF TWO TAPERED RUBBERIZED ADJUSTING RINGS SHALL BE USED FOR FINAL ADJUSTMENT. ONE CONCRETE RING NOT LESS THAN TWO INCHES THICK MAY ALSO BE USED. A MAXIMUM OF THREE ADJUSTING RINGS MAY BE USED TO A MAXIMUM HEIGHT OF 12 INCHES. THE RING(S) AND FRAME SHALL BE SET ON A BED OF PREFORMED NON–HARDENING MASTIC (RUB–R–NEK) OR APPROVED EQUAL).
5. PRECAST ADJUSTING RINGS SHALL BE REINFORCED WITH NO. 3 GUAGE WIRE OR EQUIVALENT.
6. MORTAR SHALL NOT BE USED TO DRESS UP ADJUSTING RINGS AND/OR FRAME.
7. PLASTIC POLYMER STEPS SHALL NOT BE INSTALLED, UNLESS APPROVED BY THE VILLAGE ENGINEER OR HIS/HER DESIGNEE.
8. DRESS UP INTERIOR JOINTS WITH HYDRAULIC CEMENT.
9. VALVE MUST ALIGN WITH CENTER OF VAULT OPENING.
10. CONES MUST BE CONCENTRIC WITH VALVES 12" AND SMALLER.
11. BUTTERFLY VALVES REQUIRE ECCENTRIC CONES.
12. ALL VALVE VAULTS REQUIRE RUBBER BOOTS WITH STAINLESS STEEL STRAPS WITH THE EXCEPTION OF PRESSURE CONNECTION VALVE VAULTS.

VALVE AND VAULT BOX INSTALLATION DETAIL
NTS
5 / C601

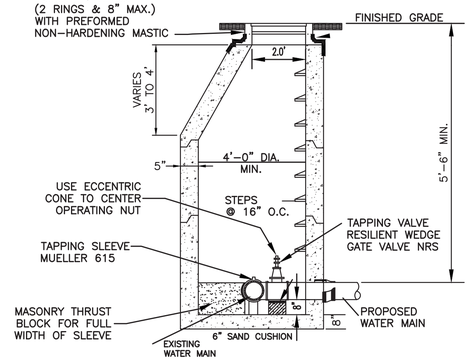


NOTES:
1. VALVE MUST ALIGN WITH THE CENTER OF VAULT OPENINGS.
2. CONES MUST BE CONCENTRIC WITH VALVES 12"(300MM) AND SMALLER.
3. BUTTERFLY VALVES AND PRESSURE TAP VALVES REQUIRE ECCENTRIC CONES.
4. WHEN ADJUSTMENTS ARE NECESSARY, THEY SHALL BE PERFORMED WITH A MAXIMUM OF TWO (2) PRECAST CONCRETE RINGS SET IN A BED OF PREFORMED NON–HARDENING MASTIC MATERIAL (CONSEAL CS–102B, OR APPROVED EQUAL) TO A MAXIMUM HEIGHT OF 12"(300MM).

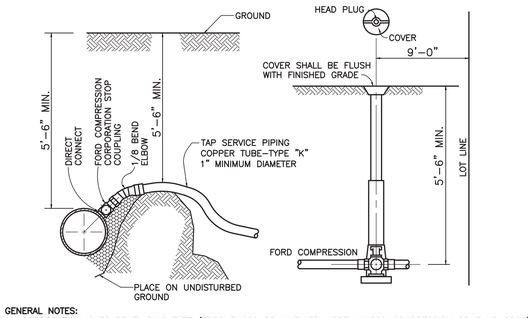
VALVE VAULT DETAIL
NTS
6 / C601



HYDRANT SETTING DETAIL
NTS
7 / C601

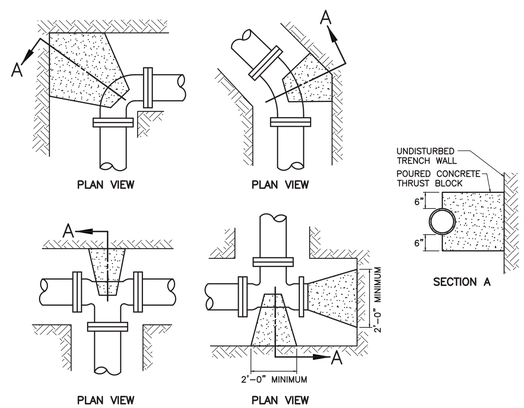


PRESSURE CONNECTION DETAIL
NTS
8 / C601



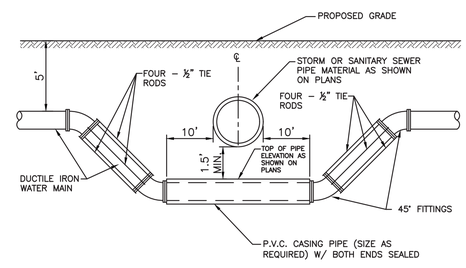
GENERAL NOTES:
1. CORPORATION IS TO BE FLARING TYPE (FORD F–600 OR MUELLER MODEL H1500 COMPRESSION OR FLAIR COCK).
2. WHEN USING 1 1/4" CURB STOP, THE B–BOX IS MINNEAPOLIS PATTERN WITH NO INTERIOR ROD ATTACHED. MUELLER CURB STOP IS H15155 OR 15154 TO ACCEPT THREADED STYLE B–BOX OR APPROVED EQUAL. MUELLER H15403 SERIES COMPRESSION OR FLAIR COUPLINGS OR APPROVED EQUALS THE OTHER ALLOWABLE BRASS FITTINGS.
3. WHEN USING 1–1/2" TO 2" CURB STOP, THE B–BOX IS MINNEAPOLIS PATTERN WITHOUT AN INTERIOR UPPER SECTION ROD.
4. 1" CURB STOP IS WITH COMPRESSION COUPLINGS (FORD B44–444).
5. B–BOX SHALL BE ABS/CAST IRON CURB BOX VALCO #323M13636 OR APPROVED EQUAL.
6. SERVICE TAPS GREATER THAN 1" IN DIAMETER SHALL HAVE A STAINLESS STEEL BANDED DUCTILE IRON SADDLE (FORD 101S, 202S, OR MUELLER).
7. CORPORATION STOPS SHALL BE INSTALLED A MINIMUM OF 18" FROM PIPE ENDS. MULTIPLE INSTALLATIONS SHALL BE STAGGERED AROUND THE MAIN BY 90% AND SEPARATED BY 18".

WATER SERVICE CONNECTION DETAIL
NTS
9 / C601



NOTES:
1. THRUST BLOCKING TO PREVENT MOVEMENT OF LINES UNDER PRESSURE BENDS, TEES, CAPS, VALVES, HYDRANTS, AND AT POINTS SPECIFIED BY THE VILLAGE ENGINEER SHALL BE CLASS SI CONCRETE A MINIMUM OF TWELVE (12) INCHES THICK PLUS THE SIZE OF THE WATERMAIN. IT SHALL BE PLACED BETWEEN SOLID GROUND AND FITTINGS WILL BE ACCESSIBLE FOR REPAIRS. THRUST BLOCK SHALL BE PLACED AT BENDS OF 11–1/4 DEGREES OR MORE. THE AREA OF BEARING SHALL BE SUFFICIENT TO RESIST THE APPLIED FORCES.
2. USE OF WOOD MATERIAL FOR THRUST BLOCKING IS STRONGLY PROHIBITED.

THRUST BLOCK INSTALLATION DETAIL
NTS
10 / C601



NOTE:
ALL VALVES, FIRE HYDRANTS, BENDS, ETC. MUST BE INSTALLED WITH RESTRAINED JOINT FITTINGS (MEGALUGS OR VILLAGE APPROVED EQUAL).

WATER MAIN LOWERING DETAIL
NTS
11 / C601

12 / C601

No.	DATE	REVISION
	08/31/16	ISSUED FOR ARB

SEAL

PROJECT No: 76561
DATE 06/06/16
DES. BI
DR. DH
CKD. JG

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WOOLPERT

SITE IMPROVEMENT PLANS THE GARDNER SCHOOL
250 BARCLAY BOULEVARD
LINCOLNSHIRE, ILLINOIS

DETAILS

SHEET NO.
C601

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Building Feature Specifications

THE GARDNER SCHOOL

250 Barclay Blvd.
Lincolnshire, IL 60069

Prepared: September 12, 2016
BY

NORR

CUPOLA SECTION 11040

PART 1 - GENERAL

1.01 SUMMARY

A. Provide cupola work shown on the drawings, as specified herein, and as needed for a complete and proper installation.

B. Coordinate cupola work of this section with General Conditions and Supplementary Conditions.

1.02 SUBMITTALS

A. Submit shop drawings designed in accordance with local building code requirements. Upon approval, general contractor shall send to field or job-site superintendent copy of final approved shop drawing.

B. Submit color samples of exterior covering, and window glazing.

C. Submit certificates of insurance.

D. Submit close-out documents, warranties, and manuals.

1.03 QUALITY ASSURANCE

A. Use adequate number of skilled workmen who are thoroughly trained and experienced in the necessary crafts, and who are completely familiar with the specified requirements and the methods needed for proper performance of the work of this Section.

B. Use materials which shall be free from defects impairing strength, durability, and appearance; shall be of best commercial quality for purpose required; and shall comply with approved drawings.

C. Use manufacturer who has had ten (10) years of experience in the manufacture of specified product.

1.04 WARRANTY

A. Warrant the product for one year after date of completed installation by manufacturer of product.

B. Warrant the product for one year after date of delivery of product installed by others.

PART 2 - PRODUCTS

2.01 MANUFACTURER

A. Use product as manufactured by East Coast Weathervanes
EastCoast-Weathervanes.com • 1.800.986.2870
Cupola: The Salisbury 24"W x 47"H, black windows.Vinyl
Weathervane: Eagle Banner #AB15 28"L x 24"H

2.02 MATERIALS

A. Manufactures standard.

2.03 ACCESSORIES

A. Fabricate finial and/or topping ornament true to dimensions, with welded or soldered joints, ground smooth.

B. Form louver blades and firmly secure and rivet to frames, and back with 18 x 18 aluminum or copper screen.

C. Form cornices, mouldings, and ornaments in accordance with approved drawings.

D. Cast, stamp, form, and/or spin special ornaments in accordance with good and acceptable practices, and in accordance with approved drawings.

E. All accessories required for mounting and assembly.

2.04 FABRICATION

A. Fabricate structural steel framing to conform to AWS standards.

B. Fabricate structural aluminum framing with cold driven aluminum rivets, limiting welding to secondary architectural members.

C. Form all exterior cladding with good and acceptable sheet metal practices, and lock form all seams inasmuch as possible.

D. Conceal all exterior fasteners to maximum possibility.

E. Use cadmium plated bolts, nuts, and washers for anchoring, unless anchoring materials are provided and installed by others.

2.05 FINISHES

A. Standard Manufactures.

2.06 CAULKING

A. Clean and dry all surfaces to be caulked.

B. Apply with caulking gun, using nozzle of proper size to fit the joint width.

C. Use silicone caulking by Dow Corning, or approved equal.

PART 3 - EXECUTION

3.01 PROJECT SITE CONDITIONS

A. Verify with owner or general contractor that site conditions are suitable and accessible for delivery and installation.

B. Confirm with owner or general contractor that all preparatory work is in place in accordance with approved shop drawings before delivery and installation.

3.02 INSTALLATION

A. Coordinate with other trades as required to assure proper and adequate installation.

B. Clean all soiled and dirty areas and touch up any scratches or abrasions to finish before lifting into position.

C. Install work with skilled workmen who are familiar with such work in accordance with approved shop drawings.

D. Provide crane to manufacturer for unloading and hoisting product into position for as long as required.

3.03 CLEAN-UP

A. Clean up all debris caused by work of this section

B. Keep the premises clean and neat at all times.

END OF SECTION

DaVinci Shake® Single-Width

Just like real cedar, DaVinci Shake Single-Width features varied textures and profiles to create natural visual shifts in color and shading. Unlike real cedar, it's available in five standard color blends and designed to last for decades.

Mountain-VariBlend

Tahoe-VariBlend

Chesapeake-VariBlend

Autumn-VariBlend

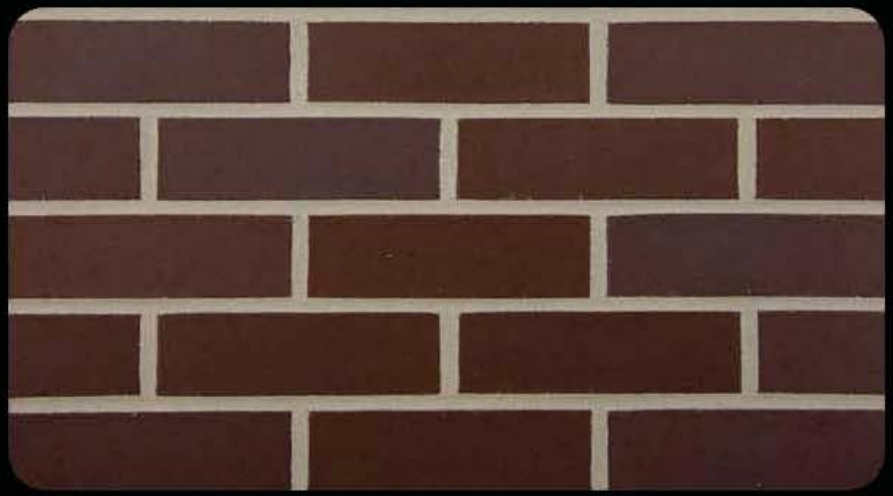
Weathered Gray-VariBlend

Contact a DaVinci project specialist to learn more about how you can create your own color blend or custom color.

www.davinciroofscapes.com

NOTE: Printing reproduction of colors shown in this brochure may vary from actual product.

BORDEAUX BLEND



SMOOTH

Available Sizes

Modular
Engineer Modular
Closure
2-5/8" Kingsize
Kingsize
Engineeer Kingsize
Norman
Engineer Norman
Utility
3" Utility
Triple
Meridian
6" Thru-Wall
8" Thru-wall

Available Textures

Velour
Smooth
Matt
Vertical Score

Colors, textures, and sizes featured in this color catalog may not be available in all combinations, contact Endicott or your distributor for further information.

Due to variances in the graphic display of devices and reproduction in printers, colors may vary. Final color selections should be made from a key panel or mock up.

LEED

MODELS

SPECS

HardiePlank® HL5 Lap Siding

INSTALLATION REQUIREMENTS - PRIMED & COLORPLUS® PRODUCTS

JamesHardie

EFFECTIVE SEPTEMBER 2013

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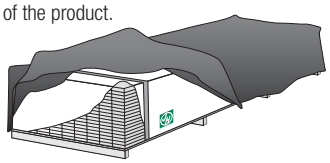
SELECT CEDARMILL© • SMOOTH • CUSTOM COLONIAL™ SMOOTH • CUSTOM COLONIAL™ ROUGHSAWN
CUSTOM BEADED CEDARMILL© • CUSTOM BEADED SMOOTH • STRAIGHT-EDGE SHINGLE PLANK

IMPORTANT: FAILURE TO INSTALL AND FINISH THIS PRODUCT IN ACCORDANCE WITH APPLICABLE BUILDING CODES AND JAMES HARDIE WRITTEN APPLICATION INSTRUCTIONS MAY LEAD TO PERSONAL INJURY, AFFECT SYSTEM PERFORMANCE, VIOLATE LOCAL BUILDING CODES, AND VOID THE PRODUCT ONLY WARRANTY. BEFORE INSTALLATION, CONFIRM THAT YOU ARE USING THE CORRECT HARDIEZONE™ PRODUCTS INSTRUCTIONS. TO DETERMINE WHICH HARDIEZONE™ APPLIES TO YOUR LOCATION, VISIT WWW.HARDIEZONE.COM OR CALL 1-866-942-7343 (866 9HARDIE)

STORAGE & HANDLING:

Store flat and keep dry and covered prior to installation. Installing siding wet or saturated may result in shrinkage at butt joints. Carry planks on edge. Protect edges and corners from breakage. James Hardie is not responsible for damage caused by improper storage and handling of the product.



⚠ CUTTING INSTRUCTIONS

OUTDOORS	INDOORS
1. Position cutting station so that wind will blow dust away from user and others in working area. 2. Use one of the following methods: a. Best: i. Score and snap ii. Shears (manual, electric or pneumatic) b. Better: i. Dust reducing circular saw equipped with a HardieBlade® saw blade and HEPA vacuum extraction c. Good: i. Dust reducing circular saw with a HardieBlade saw blade (only use for low to moderate cutting)	1. Cut only using score and snap, or shears (manual, electric or pneumatic). 2. Position cutting station in well-ventilated area - NEVER use a power saw indoors - NEVER use a circular saw blade that does not carry the HardieBlade saw blade trademark - NEVER dry sweep – Use wet suppression or HEPA Vacuum

Important Note: For maximum protection (lowest respirable dust production), James Hardie recommends always using "Best"-level cutting methods where feasible.

NIOSH-approved respirators can be used in conjunction with above cutting practices to further reduce dust exposures. Additional exposure information is available at www.jameshardie.com to help you determine the most appropriate cutting method for your job requirements. If concern still exists about exposure levels or you do not comply with the above practices, you should always consult a qualified industrial hygienist or contact James Hardie for further information.

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IMPORTANT: To prevent damage to the drip edge, extra care should be taken when removing planks from the pallet, while handling, and when installing with a lap gauge. Please see additional handling requirements on page 4.

GENERAL REQUIREMENTS:

- HardiePlank® lap siding can be installed over braced wood or steel studs spaced a maximum of 24" o.c. or directly to minimum 7/16" thick OSB sheathing. See General Fastening Requirements. Irregularities in framing and sheathing can mirror through the finished application.
- Information on installing James Hardie products over foam can be located in **JH Tech Bulletin 19** at www. jamehardie.com
- A water-resistive barrier is required in accordance with local building code requirements. The water-resistive barrier must be appropriately installed with penetration and junction flashing in accordance with local building code requirements. James Hardie will assume no responsibility for water infiltration. James Hardie does manufacture HardieWrap® Weather Barrier, a non-woven non-perforated housewrap[1], which complies with building code requirements.
- When installing James Hardie products all clearance details in figs. 3-14 must be followed.
- Adjacent finished grade must slope away from the building in accordance with local building codes - typically a minimum of 6" in the first 10'.
- Do not use HardiePlank lap siding in Fascia or Trim applications.
- Do not install James Hardie products, such that they may remain in contact with standing water.
- HardiePlank lap siding may be installed on flat vertical wall applications only.
- DO NOT use stain, oil/alkyd base paint, or powder coating on James Hardie® Products.
- For larger projects, including commercial and multi-family projects, where the span of the wall is significant in length, the designer and/or architect should take into consideration the coefficient of thermal expansion and moisture movement of the product in their design. These values can be found in the Technical Bulletin "Expansion Characteristics of James Hardie® Siding Products" at www.JamesHardie.com.

INSTALLATION: JOINT TREATMENT

One or more of the following joint treatment options are required by code (*as referenced 2009 IRC R703.3.2)*

A. Joint Flashing (James Hardie recommended)

B. Caulking* (Caulking is not recommended for ColorPlus for aesthetic reasons as the Caulking and ColorPlus will weather differently. For the same reason, do not caulk nail heads on ColorPlus products.}

C. "H" jointer cover

Figure 2

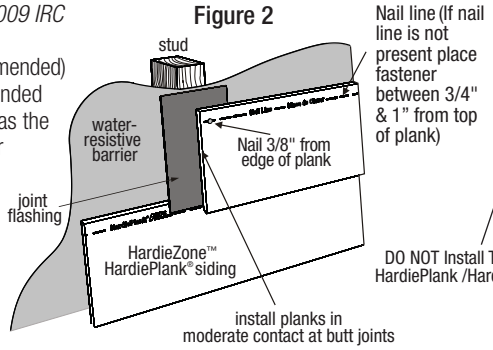
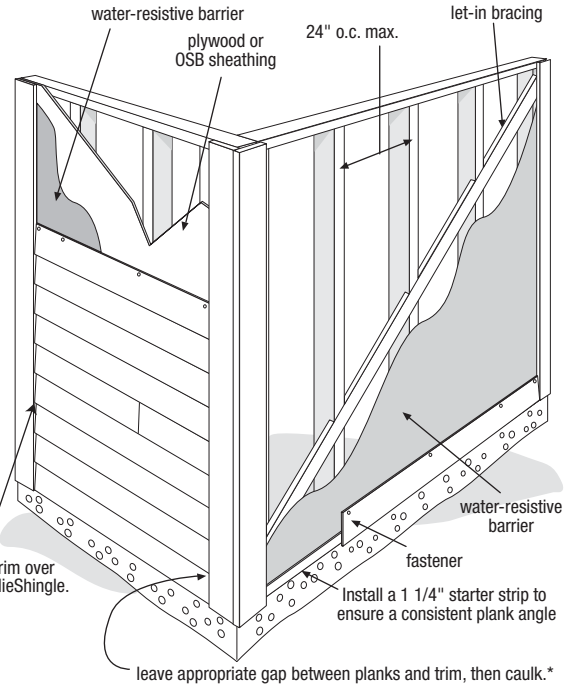


Figure 1 Double Wall Construction / Single Wall Construction



Note: Field painting over caulking may produce a sheen difference when compared to the field painted PrimePlus. *Refer to Caulking section in these instructions.

[1]For additional information on HardieWrap® Weather Barrier, consult James Hardie at 1-866-4Hardie or www.hardiewrap.com

WARNING: AVOID BREATHING SILICA DUST

James Hardie® products contain respirable crystalline silica, which is known to the State of California to cause cancer and is considered by IARC and NIOSH to be a cause of cancer from some occupational sources. Breathing excessive amounts of respirable silica dust can also cause a disabling and potentially fatal lung disease called silicosis, and has been linked with other diseases. Some studies suggest smoking may increase these risks. During installation or handling: (1) work in outdoor areas with ample ventilation; (2) use fiber cement shears for cutting or, where not feasible, use a HardieBlade saw blade and dust-reducing circular saw attached to a HEPA vacuum; (3) warn others in the immediate area; (4) wear a properly-fitted, NIOSH-approved dust mask or respirator (e.g. N-95) in accordance with applicable government regulations and manufacturer instructions to further limit respirable silica exposures. During clean-up, use HEPA vacuums or wet cleanup methods - never dry sweep. For further information, refer to our installation instructions and Material Safety Data Sheet available at www.jameshardie.com or by calling 1-800-9HARDIE (1-800-942-7343). FAILURE TO ADHERE TO OUR WARNINGS, MSDS, AND INSTALLATION INSTRUCTIONS MAY LEAD TO SERIOUS PERSONAL INJURY OR DEATH.

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CLEARANCE AND FLASHING REQUIREMENTS

Figure 3
Roof to Wall

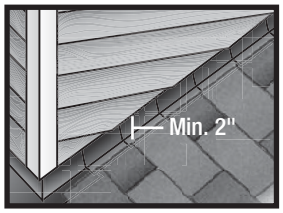


Figure 4
Horizontal Flashing

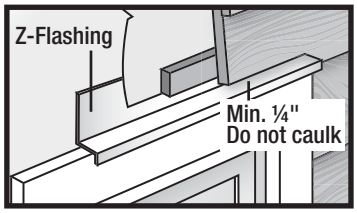


Figure 5
Kickout Flashing

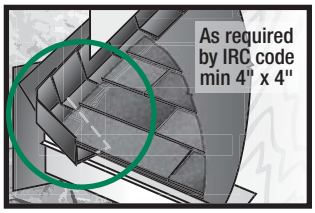


Figure 6
Slabs, Path, Steps to Siding

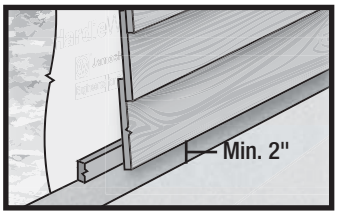


Figure 7
Deck to Wall

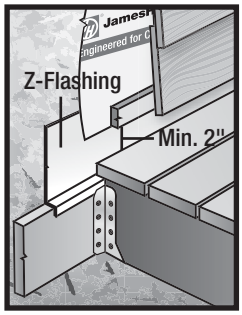


Figure 8
Ground to Siding

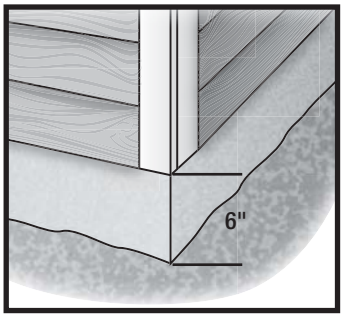


Figure 9
Gutter to Siding

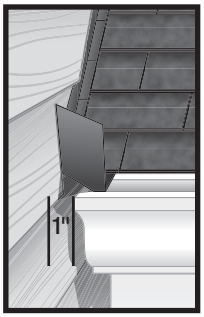


Figure 10
Sheltered Areas

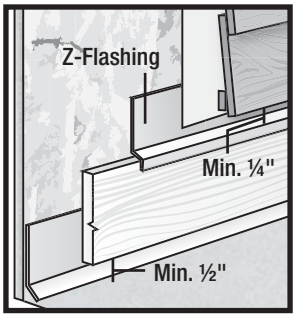


Figure 11
Mortar/Masonry

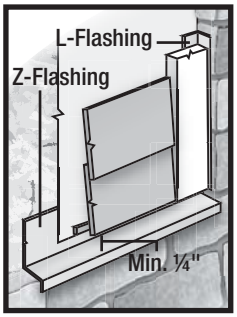


Figure 12
Drip Edge

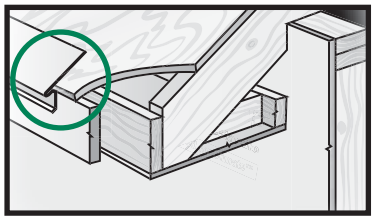


Figure 13
Block Penetration

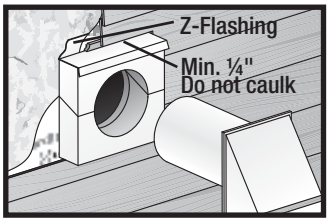


Figure 14
Valley/Shingle Extension

FASTENER REQUIREMENTS **

Blind Nailing is the preferred method of installation for HardiePlank® lap siding products. Face nailing should only be used where required by code for high wind areas and must not be used in conjunction with Blind nailing (Please see JH Tech bulletin 17 for exemption when doing a repair). **Pin-backed corners may be done for aesthetic purposes Only. Pin-backs shall be done with finish nails only, and are not a substitute for blind or face nailing.**

BLIND NAILING

Nails - Wood Framing
- Siding nail (0.09" shank x 0.221" HD x 2" long)
- 11ga. roofing nail (0.121" shank x 0.371" HD x 1.25" long)

Screws - Steel Framing
- Ribbed Wafer-head or equivalent (No. 8 x 1 1/4" long x 0.375" HD) Screws must penetrate 3 threads into metal framing.

Nails - Steel Framing
- ET & F Panelfast® nails or equivalent (0.10" shank x 0.313" HD x 1-1/2" long) Nails must penetrate minimum 1/4" into metal framing.

OSB minimum 7/16"
- 11ga. roofing nail (0.121" shank x 0.371" HD x 1.75" long)
- Ribbed Wafer-head or equivalent (No. 8 x 1 5/8" long x 0.375" HD).

FACE NAILING

Nails - Wood Framing
- 6d (0.113" shank x 0.267" HD x 2" long)
- Siding nail (0.09" shank x 0.221" HD x 2" long)

Screws - Steel Framing
- Ribbed Bugle-head or equivalent (No. 8-18 x 1-5/8" long x 0.323" HD) Screws must penetrate 3 threads into metal framing.

Nails - Steel Framing
- ET & F pin or equivalent (0.10" shank x 0.25" HD x 1-1/2" long) Nails must penetrate minimum 1/4" into metal framing.

OSB minimum 7/16"
- Siding nail (0.09" shank x 0.221" HD x 1-1/2" long)*

FASTENER REQUIREMENTS *continued on following page*

FASTENER REQUIREMENTS *continued*

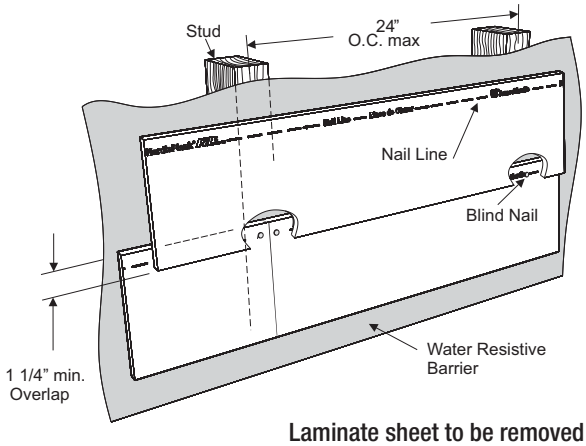


Figure 14

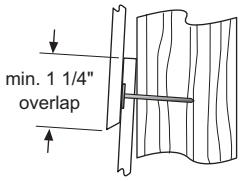
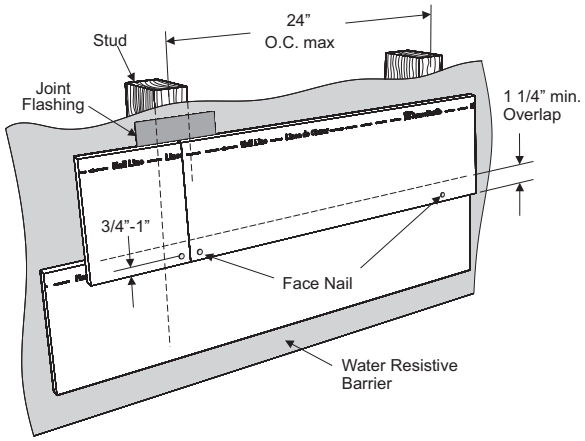


Figure 15

Minimum overlap for Both Face and Blind Nailing



Laminate sheet to be removed immediately after installation of each course for ColorPlus® products.

* When face nailing to OSB, planks must be no greater than 9 1/4" wide and fasteners must be 12" o.c. or less.

** Also see General Fastening Requirements; and when considering alternative fastening options refer to James Hardie's Technical Bulletin USTB 17 - Fastening Tips for HardiePlank® Lap Siding.

GENERAL FASTENING REQUIREMENTS

Fasteners must be corrosion resistant, galvanized, or stainless steel. Electro-galvanized are acceptable but may exhibit premature corrosion. James Hardie recommends the use of quality, hot-dipped galvanized nails. James Hardie is not responsible for the corrosion resistance of fasteners. Stainless steel fasteners are recommended when installing James Hardie® products near the ocean, large bodies of water, or in very humid climates.

Manufacturers of ACQ and CA preservative-treated wood recommend spacer materials or other physical barriers to prevent direct contact of ACQ or CA preservative-treated wood and aluminum products. Fasteners used to attach HardieTrim Tabs to preservative-treated wood shall be of hot dipped zinc-coated galvanized steel or stainless steel and in accordance to 2009 IRC R317.3 or 2009 IBC 2304.9.5.

- Consult applicable product evaluation or listing for correct fasteners type and placement to achieve specified design wind loads.
- NOTE: Published wind loads may not be applicable to all areas where Local Building Codes have specific jurisdiction. Consult James Hardie Technical Services if you are unsure of applicable compliance documentation.
- Drive fasteners perpendicular to siding and framing.
- Fastener heads should fit snug against siding (no air space). (fig. A)
- Do not over-drive nail heads or drive nails at an angle.
- If nail is countersunk, fill nail hole and add a nail. (fig. B)
- For wood framing, under driven nails should be hit flush to the plank with a hammer (For steel framing, remove and replace nail).
- NOTE: Whenever a structural member is present, HardiePlank should be fastened with even spacing to the structural member. The tables allowing direct to OSB or plywood should only be used when traditional framing is not available.
- **Do not use aluminum fasteners, staples, or clipped head nails.**

PNEUMATIC FASTENING

James Hardie products can be hand nailed or fastened with a pneumatic tool. Pneumatic fastening is highly recommended. Set air pressure so that the fastener is driven snug with the surface of the siding. A flush mount attachment on the pneumatic tool is recommended. This will help control the depth the nail is driven. If setting the nail depth proves difficult, choose a setting that under drives the nail. (Drive under driven nails snug with a smooth faced hammer - Does not apply for installation to steel framing).

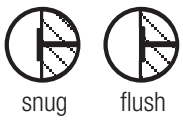


Figure A

Figure B

PAINTING

DO NOT use stain, oil/alkyd base paint, or powder coating on James Hardie® Products. James Hardie products must be painted within 180 days for primed product and 90 days for unprimed. 100% acrylic topcoats are recommended. Do not paint when wet. For application rates refer to paint manufacturers specifications. Back-rolling is recommended if the siding is sprayed.

CUT EDGE TREATMENT

Caulk, paint or prime all field cut edges. James Hardie touch-up kits are required to touch-up ColorPlus products.

CAULKING

For best results use an Elastomeric Joint Sealant complying with ASTM C920 Grade NS, Class 25 or higher or a Latex Joint Sealant complying with ASTM C834. Caulking/Sealant must be applied in accordance with the caulking/sealant manufacturer's written instructions. **Note: OSI Quad as well as some other caulking manufacturers do not allow tooling.**

COLORPLUS® TECHNOLOGY CAULKING, TOUCH-UP & LAMINATE

- Care should be taken when handling and cutting James Hardie® ColorPlus® products. During installation use a wet soft cloth or soft brush to gently wipe off any residue or construction dust left on the product, then rinse with a garden hose.
- Touch up nicks, scrapes and nail heads using the ColorPlus® Technology touch-up applicator. Touch-up should be used sparingly. If large areas require touch-up, replace the damaged area with new HardiePlank® lap siding with ColorPlus® Technology.
- Laminate sheet must be removed immediately after installation of each course.
- Terminate non-factory cut edges into trim where possible, and caulk. Color matched caulks are available from your ColorPlus® product dealer.
- Treat all other non-factory cut edges using the ColorPlus Technology edge coaters, available from your ColorPlus product dealer.

Note: James Hardie does not warrant the usage of third party touch-up or paints used as touch-up on James Hardie ColorPlus products.

Problems with appearance or performance arising from use of third party touch-up paints or paints used as touch-up that are not James Hardie touch-up will not be covered under the James Hardie ColorPlus Limited Finish Warranty.

COVERAGE CHART/ESTIMATING GUIDE

Number of 12' planks, does not include waste

COVERAGE AREA LESS OPENINGS

SQ (1 SQ = 100 sq.ft.)	HARDIEPLANK® LAP SIDING WIDTH (exposure)								
	5 1/4 4	6 1/4 5	7 1/4 6	7 1/2 6 1/4	8 6 3/4	8 1/4 7	9 1/4 8	9 1/2 8 1/4	12 10 3/4
1	25	20	17	16	15	14	13	13	9
2	50	40	33	32	30	29	25	25	19
3	75	60	50	48	44	43	38	38	28
4	100	80	67	64	59	57	50	50	37
5	125	100	83	80	74	71	63	63	47
6	150	120	100	96	89	86	75	75	56
7	175	140	117	112	104	100	88	88	65
8	200	160	133	128	119	114	100	100	74
9	225	180	150	144	133	129	113	113	84
10	250	200	167	160	148	143	125	125	93
11	275	220	183	176	163	157	138	138	102
12	300	240	200	192	178	171	150	150	112
13	325	260	217	208	193	186	163	163	121
14	350	280	233	224	207	200	175	175	130
15	375	300	250	240	222	214	188	188	140
16	400	320	267	256	237	229	200	200	149
17	425	340	283	272	252	243	213	213	158
18	450	360	300	288	267	257	225	225	167
19	475	380	317	304	281	271	238	238	177
20	500	400	333	320	296	286	250	250	186

This coverage chart is meant as a guide. Actual usage is subject to variables such as building design. James Hardie does not assume responsibility for over or under ordering of product.

PAINTING JAMES HARDIE® SIDING AND TRIM PRODUCTS WITH COLORPLUS® TECHNOLOGY

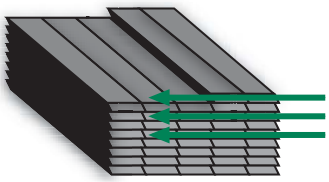
When repainting ColorPlus products, James Hardie recommends the following regarding surface preparation and topcoat application:

- Ensure the surface is clean, dry, and free of any dust, dirt, or mildew
- Repriming is normally not necessary
- 100% acrylic topcoats are recommended
- DO NOT use stain, oil/alkyd base paint, or powder coating on James Hardie® Products.
- Apply finish coat in accordance with paint manufacturers written instructions regarding coverage, application methods, and application temperature
- DO NOT caulk nail heads when using ColorPlus products, refer to the ColorPlus touch-up section

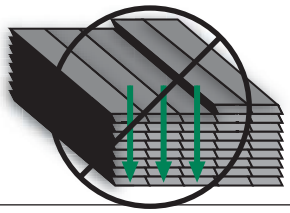
ADDITIONAL HANDLING REQUIREMENTS

IMPORTANT: To prevent damage to the drip edge, extra care should be taken when removing planks from the pallet, while handling, and when installing with a lap gauge. Planks are interlocked together on the pallet, therefore they should be removed from the pallet horizontally (side to side) to allow planks to unlock themselves from one another.

Pull from across the stack



Do not go down the stack



RECOGNITION: In accordance with ICC-ES Evaluation Report ESR-2290, HardiePlank® lap siding is recognized as a suitable alternate to that specified in: the 2006,2009,&2012 International Residential Code for One- and Two-Family Dwellings, and the 2006, 2009, & 2012 International Building Code,. HardiePlank lap siding is also recognized for application in the following: City of Los Angeles Research Report No. 24862, State of Florida listing FL#889, Dade County, Florida NOA No. 02-0729.02, U.S. Dept. of HUD Materials Release 1263c, Texas Department of Insurance Product Evaluation EC-23, City of New York MEA 223-93-M, and California DSA PA-019. These documents should also be consulted for additional information concerning the suitability of this product for specific applications.

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Additional Installation Information, Warranties, and Warnings are available at www.jameshardie.com

JamesHardie®

CLOVE BROOK LIMESTONE

Select Cupola

Square Cupolas
Hexagon Cupolas
Octagon Cupolas
Metal Cupolas
Copper Cupolas
Shed Cupolas
Gazebo Cupolas
Economy Series Cupolas
Square Base Octagon Cupolas
The Deluxe Series Cupolas
The Combo Series Cupolas
The Bell Roof Series Cupolas
Birdhouse Cupolas
Custom Cupolas

The Pinnacle Cupola | The Villa Cupola | The Kingston Cupola | The Salisbury Cupola | The Octagon Windowed Searsport | The Octagon Windowed Trenton | The Octagon Louvered Searsport | The Octagon Cupola

The Villa Cupola

Our Villa Estate Series Vinyl Cupola features an octagonal configuration with windows and a 16 ounce, 24 gauge copper bell style roof. Colored aluminum roofs are available.

Cupola size is derived from the measurements of the base width.

Extension Base:
This cupola fits up to a 10/12 pitch roof.
An extension base is required to fit a roof greater than a 10/12 pitch.
For a 12/12 pitch, one extension base is required.
For a 14/12 pitch, two extension bases are required.
Please call for pricing.

All cupolas are weathervane ready. When installing a weathervane, an 11" extension rod is required.

Base Size	Dimensions	Vinyl or Cedar Price	Stained Glass Windows
24"	24"W x 47"H	$1,041	add $92
30"	30"W x 57"H	$1,369	add $160
36"	36"W x 67"H	$1,663	add $232
42"	42"W x 77"H	$2,139	add $340
48"	48"W x 88"H	$2,592	add $424
60"	60"W x 107"H	$3,610	add $580
72"	72"W x 126"H	$4,697	add $880

Cupola Options	18"	22"	26"	30"	36"	42"	48"	54"	60"	72"
Base Extension	$46	$54	$66	$76	$88	$98	$110	$120	$130	$152
Screening	$32	$38	$42	$52	$64	$74	$84	$96	$106	$126

Order Here

Select Weathervane

Eagle Weathervanes

Rooster Weathervanes

Heron Weathervanes

Goose Weathervanes

Duck Weathervanes

Other Bird Weathervanes

Arrow and Banner Weathervanes

Horse Weathervanes

Pig Weathervanes

Farm Animal Weathervanes

Deer Moose & Elk Weathervanes

Wildlife Weathervanes

Fish Weathervanes

Dolphin

Diving Eagle w / 24" Arrow | Diving Eagle w / 30" Arrow | Diving Eagle w / Fish | Eagle w / 30" Arrow | Eagle w / 22" Arrow | American Flag w / Eagle Head | Diving Eagle on 36" Scroll Arrow | Eagle on 36" Scroll Arrow | Medium Eagle on 30" Scroll Arrow | Federal Eagle Replica | Federal Eagle Replica w / 36" Arrow | Smithsonian Eagle

American Flag w/ Eagle Head

24"H x 28"L
Style #857
Price: $295

Order Here

Weathervanes

Whale Weathervanes

Boat Weathervanes

Dog Weathervanes

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Transportation Weathervanes

Religious Weathervanes

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Special Interest Weathervanes

Sale Weathervanes

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Fencing Specifications

THE GARDNER SCHOOL

250 Barclay Blvd.
Lincolnshire, IL 60069

Prepared: September 12, 2016
BY

NORR

AMERISTAR FENCE PRODUCTS®
Montage Plus® - Steel Ornamental Fence System – Fusion Welded and Rackable
CONSTRUCTION SPECIFICATION - SECTION 32 31 19

PART 1 - GENERAL
1.01 WORK INCLUDED
The contractor shall provide all labor, materials and appurtenances necessary for installation of the welded ornamental steel fence system defined herein at (specify project site).

1.02 RELATED WORK
Section __ __ __ - Earthwork
Section __ __ __ - Concrete

1.03 SYSTEM DESCRIPTION
The manufacturer shall supply a total fence system of (specify Montage Plus® standard picket space or Montage Plus® Pool, Pet & Play® 3" air space) ***Welded and Rackable*** (ATF – All Terrain Flexibility) Ornamental Steel (for standard picket space, specify Classic™, Majestic™, Genesis™, or Warrior™; for 3" air space, specify Classic™, Majestic™, or Genesis™) design. The system shall include all components (i.e., panels, posts, gates and hardware) required.

1.04 QUALITY ASSURANCE
The contractor shall provide laborers and supervisors who are thoroughly familiar with the type of construction involved and materials and techniques specified.

1.05 REFERENCES
- ASTM A653/A653M - Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy Coated (Galvannealed) by the Hot-Dip Process.
- ASTM B117 - Practice for Operating Salt-Spray (Fog) Apparatus.
- ASTM D523 - Test Method for Specular Gloss
- ASTM D714 - Test Method for Evaluating Degree of Blistering in Paint.
- ASTM D822 - Practice for Conducting Tests on Paint and Related Coatings and Materials using Filtered Open-Flame Carbon-Arc Light and Water Exposure Apparatus.
- ASTM D1654 - Test Method for Evaluation of Painted or Coated Specimens Subjected to Corrosive Environments.
- ASTM D2244 - Test Method for Calculation of Color Differences from Instrumentally Measured Color Coordinates.
- ASTM D2794 - Test Method for Resistance of Organic Coatings to the Effects of Rapid Deformation (Impact).
- ASTM D3359 - Test Method for Measuring Adhesion by Tape Test.
- ASTM F2408 – Ornamental Fences Employing Galvanized Steel Tubular Pickets.

1.06 SUBMITTAL
The manufacturer's literature shall be submitted prior to installation.

1.07 PRODUCT HANDLING AND STORAGE
Upon receipt at the job site, all materials shall be checked to ensure that no damage occurred during shipping or handling. Materials shall be stored in such a manner to ensure proper ventilation and drainage, and to protect against damage, weather, vandalism and theft.

1.08 PRODUCT WARRANTY
A. All structural fence components (i.e. rails, pickets, and posts) shall be warranted within specified limitations, by the manufacturer for a period of 20 years from date of original purchase. Warranty shall cover any defects in material finish, including cracking, peeling, chipping, blistering or corroding.

B. Reimbursement for labor necessary to restore or replace components that have been found to be defective under the terms of manufactures warranty shall be guaranteed for five (5) years from date of original purchase.

PART 2 - MATERIALS

2.01 MANUFACTURER

The fence system shall conform to (specify Montage Plus standard picket space or Montage Plus Pool, Pet & Play 3" air space) ***Welded and Rackable*** (ATF – All Terrain Flexibility) Ornamental Steel, (for standard picket space, specify Classic, Majestic, Genesis or Warrior; for 3" air space, specify Classic, Majestic, or Genesis) design, (specify extended picket or flush) bottom rail treatment, (specify 2-Rail, 3-Rail or 3-Rail with Double Rings) style manufactured by Ameristar Fence Products, Inc., in Tulsa, Oklahoma.

2.02 MATERIAL

A. Steel material for fence panels and posts shall conform to the requirements of ASTM A653/A653M, with a minimum yield strength of 45,000 psi (310 MPa) and a minimum zinc (hot-dip galvanized) coating weight of 0.60 oz/ft^2 (184 g/m^2), Coating Designation G-60.

B. Material for pickets shall be 3/4" square x 18 Ga. tubing. The rails shall be steel channel, 1.5" x 1.4375" x 14 Ga. Picket holes in the rail shall be spaced (specify 4.675" o.c. for standard picket space or 3.500" o.c. for 3" air space). Fence posts and gate posts shall meet the minimum size requirements of Table 1.

2.03 FABRICATION

A. Pickets, rails and posts shall be pre-cut to specified lengths. Rails shall be pre-punched to accept pickets.

B. Pickets shall be inserted into the pre-punched holes in the rails and shall be aligned to standard spacing using a specially calibrated alignment fixture. The aligned pickets and rails shall be joined at each picket-to-rail intersection by Ameristar's proprietary fusion welding process, thus completing the rigid panel assembly (Note: The process produces a virtually seamless, spatter-free good-neighbor appearance, equally attractive from either side of the panel).

C. The manufactured panels and posts shall be subjected to an inline electrode position coating (E-Coat) process consisting of a multi-stage pretreatment/wash (with zinc phosphate), followed by a duplex application of an epoxy primer and an acrylic topcoat. The minimum cumulative coating thickness of epoxy and acrylic shall be 2 mils (0.058 mm). The color shall be (specify Black or Bronze). The coated panels and posts shall be capable of meeting the performance requirements for each quality characteristic shown in Table 2 (Note: The requirements in Table 2 meet or exceed the coating performance criteria of ASTM F2408).

D. The manufactured fence system shall be capable of meeting the vertical load, horizontal load, and infill performance requirements for Commercial weight fences under ASTM F2408.

E. Gates with an out to out leaf dimension less than and including 72 inches shall be fabricated using Montage Plus ornamental panel material and 1-3/4" sq. x 14ga. gate ends. Gate leafs greater than 72 inches shall be fabricated using ForeRunner rails, 17 gauge pickets, intermediate uprights, gussets and 1-3/4" sq. x 14ga. gate ends. All rail and upright intersections shall be joined by welding. All picket and rail intersections shall also be joined by welding.

PART 3 - EXECUTION

3.01 PREPARATION

All new installation shall be laid out by the contractor in accordance with the construction plans.

3.02 INSTALLATION

Fence post shall be spaced according to Table 3, plus or minus ¼". For installations that must be raked to follow sloping grades, the post spacing dimension must be measured along the grade. Fence panels shall be attached to posts with brackets supplied by the manufacturer. Posts shall be set in concrete footers having a minimum depth of 36" (Note: In some cases, local restrictions of freezing weather conditions may require a greater depth). The "Earthwork" and "Concrete" sections of this specification shall govern material requirements for the concrete footer. Posts setting by other methods such as plated posts or grouted core-drilled footers are permissible only if shown by engineering analysis to be sufficient in strength for the intended application.

3.03 FENCE INSTALLATION MAINTENANCE

When cutting/drilling rails or posts adhere to the following steps to seal the exposed steel surfaces; 1) Remove all metal shavings from cut area. 2) Apply zinc-rich primer to thoroughly cover cut edge and/or drilled hole; let dry. 3) Apply 2 coats of custom finish paint matching fence color. Failure to seal exposed surfaces per steps 1-3 above will negate warranty. Ameristar spray cans or paint pens shall be used to prime and finish exposed surfaces; it is recommended that paint pens be used to prevent overspray. Use of non-Ameristar parts or components will negate the manufactures' warranty.

3.04 GATE INSTALLATION

Gate posts shall be spaced according to the manufacturers' gate drawings, dependent on standard out-to-out gate leaf dimensions and gate hardware selected. Type and quantity of gate hinges shall be based on the application; weight, height, and number of gate cycles. The manufacturers' gate drawings shall identify the necessary gate hardware required for the application. Gate hardware shall be provided by the manufacture of the gate and shall be installed per manufacturer's recommendations.

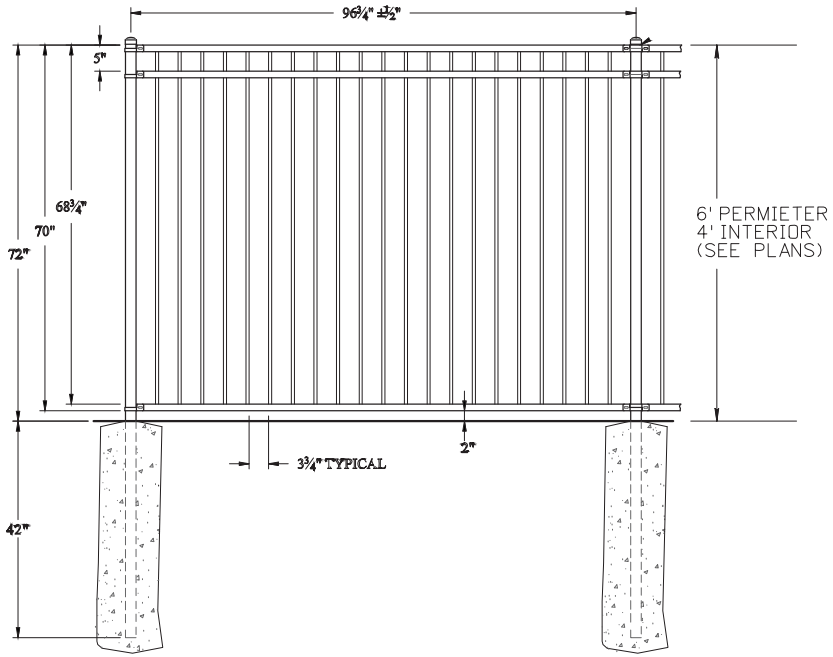
3.05 CLEANING

The contractor shall clean the jobsite of excess materials; post-hole excavations shall be scattered uniformly away from posts.

Table 1 – Minimum Sizes for Montage Plus Posts		
Fence Posts	Panel Height	
2-1/2" x 16 Ga.	Up to & Including 6' Height	
Gate Leaf	Gate Height	
	Up to & Including 4'	Over 4' Up to & Including 6'
Up to 4'	2-1/2" x 14 Ga.	3" x 12 Ga.
4'1" to 6'	3" x 12 Ga.	3" x 12 Ga.
6'1" to 8'	3" x 12 Ga.	4" x 12 Ga.

Table 2 – Coating Performance Requirements		
Quality Characteristics	ASTM Test Method	Performance Requirements
Adhesion	D3359 – Method B	Adhesion (Retention of Coating) over 90% of test area (Tape and knife test).
Corrosion Resistance	B117, D714 & D1654	Corrosion Resistance over 1,500 hours (Scribed per D1654; failure mode is accumulation of 1/8" coating loss from scribe or medium #8 blisters).
Impact Resistance	D2794	Impact Resistance over 60 inch lb. (Forward impact using 0.625" ball).
Weathering Resistance	D822 D2244, D523 (60˚ Method)	Weathering Resistance over 1,000 hours (Failure mode is 60% loss of gloss or color variance of more than 3 delta-E color units).

Table 3 – Montage Plus – Post Spacing By Bracket Type						
Span	For CLASSIC, GENESIS, MAJESTIC, & WARRIOR 8' Nominal (91.95" Rail)					
Post Size	2-1/2"	2-1/2"	2-1/2"	3"	2-1/2"	3"
Bracket Type	Montage Plus Universal (BB112)	Montage Plus Line Blvd. (BB114)	Montage Plus Flat Mount (BB111)		Montage Plus Swivel (BB113)*	
Post Settings ± 1/4" O.C.	95"	95"	95"	95-1/2"	*95"	*95-1/2"
*Note: When using BB113 swivel brackets on either or both ends of a panel installation, care must be taken to ensure the spacing between post and adjoining pickets meets applicable codes. This will require trimming one or both ends of the panel.						



MANUFACTURER: AMERISTAR
MODEL: MONTAGE PANEL MAJESTIC 3R FLB 6T 8W
(42" MINIMUM DEPTH TO MEET VILLAGE OF
LINCOLNSHIRE FROST DEPTH)
MATERIAL: BLACK ORNAMENTAL STEEL

MANUFACTURER: AMERISTAR
MODEL: MONTAGE PANEL MAJESTIC 3R FLB 6T 8W
PHOTO: CREDIT OF AMERISTARFENCE.COM
MATERIAL: BLACK ORNAMENTAL STEEL

01 *FENCE DETAIL*
SCALE: 1/16"=1'-0"

NORR
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325 N. LaSalle St. | Suite 500 | Chicago, IL 60654
t 312.424.2400 | f 312.424.2424 | www.norr.com

PROJECT -

THE GARDNER SCHOOL
250 BARCLAY BLVD
LINCOLNSHIRE, IL 60069

SK SUMMARY

#	Date	Issue
001	06/06/2016	FENCE DETAIL
002	07/25/2016	FENCE DETAIL

SK002
FENCE DETAIL
SHEET 1

Landscaping Specifications

THE GARDNER SCHOOL

250 Barclay Blvd.
Lincolnshire, IL 60069

Prepared: September 12, 2016
BY

NORR

©2016 Horticopia, Inc.

Cornus stolonifera 'Cardinal'

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Hemerocallis 'Happy Returns'

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Hydrangea quercifolia

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Itea virginica 'Sprich (Little Henry®)'

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Juniperus chinensis 'Sargentii Viridis'

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Juniperus chinensis 'Sea Green'

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Magnolia stellata

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Panicum virgatum

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Rhus aromatica 'Gro-low'

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Spiraea japonica 'Little Princess'

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Taxus x media 'Densiformis'

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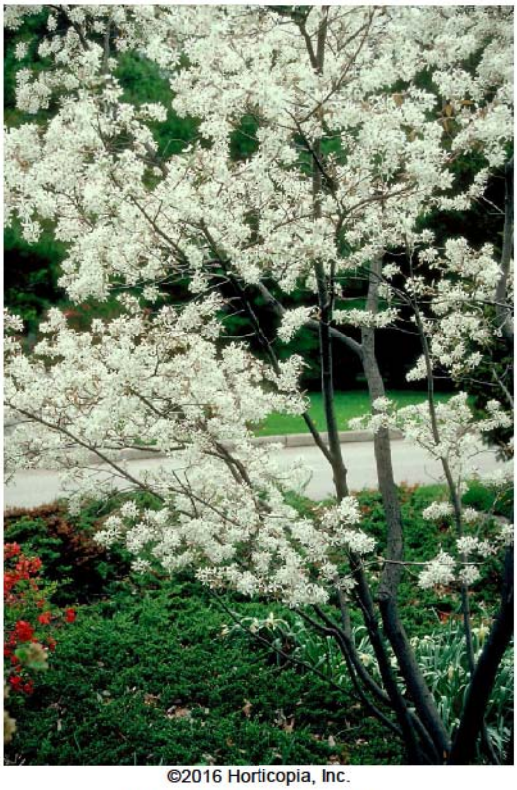

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Amelanchier x grandiflora

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Celtis occidentalis

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Crataegus viridis 'Winter King'

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Gymnocladus dioica

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Nyssa sylvatica

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Picea glauca

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Pinus flexilis

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Platanus x acerifolia

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Quercus imbricaria

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Lighting Specifications

THE GARDNER SCHOOL

250 Barclay Blvd.
Lincolnshire, IL 60069

Prepared: September 12, 2016
BY

NORR

75cm Bollard - Simulated Wood Finish

Wall Sconce

FINSH TO BE GRAPHITE, SEE BELOW FOR COLOR CHART

75cm Bollard
Stainless Steel Finish

TITANO *family*

Hunky Titano looks strong and modern in its polished stainless steel finish, but takes on a decidedly country feeling with a durable simulated wood finish option. Also available in die-cast aluminum with Graphite or Oxide finish. Four bollard heights & wall sconce to choose from. In five color temperatures. IP44 (sconce) or IP65

designed in Italy by
LANDA®
illuminotecnica

VLTLED® OUTDOOR

Visual Lighting Technologies • 9 Rancho Circle, Lake Forest, CA 92630 • Ph. 949.581.9398 • Fax 949.581.2947 • www.vltledoutdoor.com

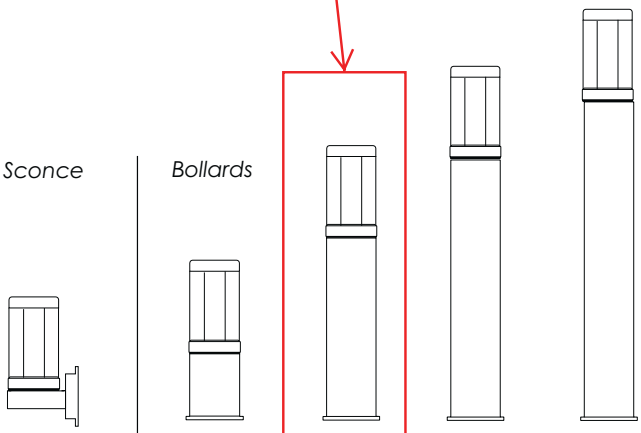
VLTLED® OUTDOOR

TITANO *family*

IP44/IP65* | Contemporary wet location fixture series for exterior lighting applications; available in multiple heights for use as pathway, bollard or wall sconce luminaires. Two lumen packages using Nichia 757d LEDs: 6010/5 LED option @ 10 watts (864 lumens) or 6010/7 LED option @ 14.5 watts (1217 lumens). All LEDs include +/- 60°K Micro Binning and 85+ CRI. Standard CCTs of 2700°K, 3000°K, 3500°K, 4000°K and 4500°K. Stainless steel AISI Type 316L for high resistance to corrosive environments. Stainless steel, Graphite, Oxide or durable heat-printed Faux Wood finish. UV-protected transparent polycarbonate lens. 120v-277v input voltage. (*IP44 wall sconce, IP65 all others).

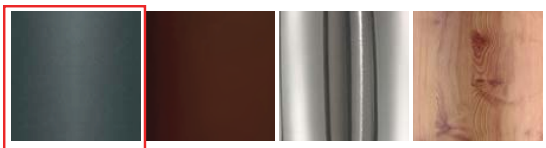
Intertek CE

PROPOSED HEIGHT



CODE:	35	45	75	100	125
HEIGHT	35cm [13.8"]	45cm [17.7"]	75cm [29.5"]	100cm [39.4"]	125cm [49.2"]

Finish Options



Graphite | Oxide | Stainless Steel | Wood Finish

FINISH COLOR

VX-TNO- _____ - _____ - _____ - _____ - _____ - _____

LED	
6010/5	864 Lumens 10 Watts
6010/7	1217 Lumens 14.5 Watts

CCT	
27	2700°K
30	3000°K
35	3500°K
40	4000°K
45	4500°K

FINISH	
GR	Graphite
OX	Oxide
SS	Stainless Steel
WD/GR	Wood/Graphite
WD/OX	Wood/Oxide
WD/SS	Wood/Stainless Steel

LENS	
PG	Clear Lens

POWER SUPPLY	
STD	Standard Non-Dim/ 0-10v dimming [120v-277v]
DIM	eldoLED 0-10v dimming [120v-277v]

FIXTURE HEIGHT	
WS	Wall Sconce (IP44)
45	45cm Bollard
75	75cm Bollard
100	100cm Bollard
125	125cm Bollard

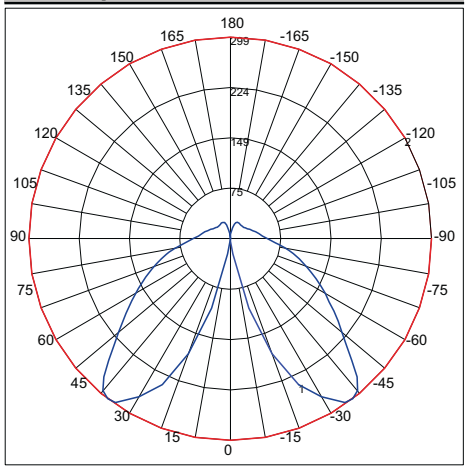
TITANO *family*

LED Fundamentals

LED Board	6010/5	6010/7
Lumen Output	864 lm	1217 lm
Power Consumption	10 Watts	14.5 Watts
CRI	85+	85+
CCT Options	2700°K, 3000°K, 3500°K, 4000°K, 4500°K	2700°K, 3000°K, 3500°K, 4000°K, 4500°K
Applied LED	Nichia 757d	Nichia 757d
Binning	±60°K	±60°K
LED Efficacy	138 lm/w	138 lm/w
Fixture Efficacy	90	85
Electrical Data		
Driver Type	Constant Current 500mA	Constant Current 700mA
Voltage	120-277 VAC	120-277 VAC
Power Factor	>0.98	>0.99
Input Current	0.08 A	0.12 A
Frequency	50/60hz	50/60hz
Operating Ambient Temperature	-22° to 140° F [-30° to 60° C]	-22° to 140° F [-30° to 60° C]
Photometrics		
B.U.G. Rating	B0 - U3 - G1	B1 - U3 - G1

Data Based on 3500°K CCT
IES Files Available @ vltledoutdoor.com

Polar Graph

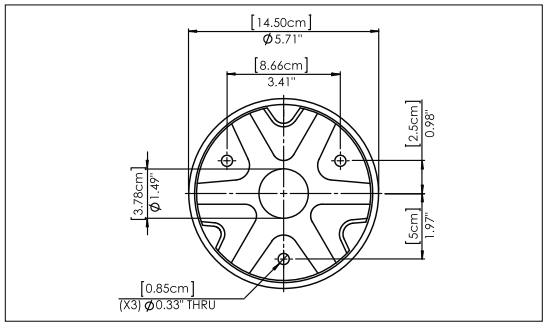


Maximum Candela =298.9 Located at Horizontal Angle = 0, Vertical Angle = 37.5
#1 - Vertical Plane Through Horizontal Angles (0-180) (Through Max. Cd.)
#2 - Horizontal Cone Through Vertical Angle (37.5) (Through Max. Cd.)
Polar graph data based on 6010/7 LED Board

Approx. Fixture Shipping Weights

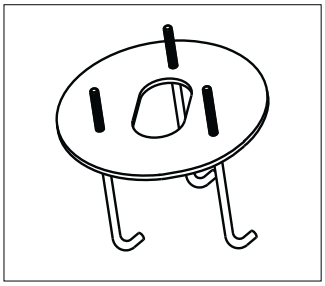
	lbs.	kg
WS	8	3.62
45	9	4.1
75	14	6.4
100	17	7.7
125	20	9.1

Base Dimensions



Optional Accessories

J-Bolt:



Catalog No. VX - AC - 400 - MK

Hardware:

Catalog No. VX - AC - HW - M6 - PWD

Catalog No. VX - AC - HW - M6 - VDL

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TITANO *family*

Type_____

Job_____

Catalog Number:

VX - TNO - _____ - _____ - _____ - _____ - _____ - _____

LED | CCT | FINISH | LENS | POWER SUPPLY | FIXTURE HEIGHT

SEE PAGE 18

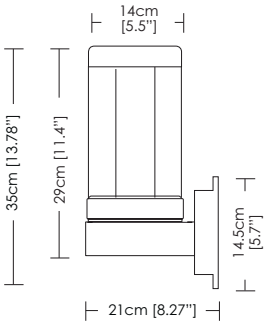
Approvals:

Date:

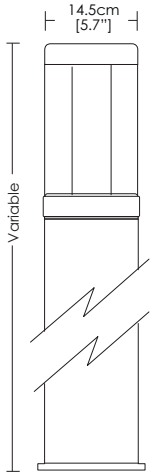
Page _____ **of** _____

SPECIFICATIONS

Wall Sconce



Bollard



LED BOARD/ ELECTRICAL:	10w or 14.5w proprietary LED module features Nichia 757d LEDs (+/-60° binning); two lumen options. Circular LED board mounted in fixture cap above white painted steel reflector.		
CCT OPTIONS:	2700°K, 3000°K, 3500°K, 4000°K, 4500°K		
FINISH:	**Graphite or Oxide:** Multi-step process including chemical passivation of aluminum for high resistance to oxidation; electrostatically applied, thermally cured, polyester powdercoat. **Stainless Steel:** AISI Type 316L **Wood Finish**: Multi-step process including chemical passivation of aluminum for high resistance to oxidation; heat-fusion application of realistic wood grain pre-printed film transfer.		
LENS:	Transparent, UV-stabilize polycarbonate lensing with silicon gaskets.		
POWER SUPPLY:	**STD:** Standard Non-Dim/ 0-10v dimming (120-277v 50/60Hz input) - Hatch Constant Current (Class 2) Driver; 500 mA or 700 mA, depending on Lumen/Wattage package selected; dims via 0-10v. Temperature range -22° - 140°F [-30° - 60°C]. **DIM:** Dimmable 0-10v (120-277v) - EldoLED Constant Current (Class 2) Driver; Factory programable 500 mA or 700 mA, depending on Lumen/Wattage package selected; dims via 0-10v. Temperature range -4° - 122°F [-20° - 50°C].		
HOUSING:	Die-cast, stone washed aluminum EN47100 (Graphite or Oxide finish), or Stainless Steel AISI type 316L or Aluminum AW 6060 (simulated wood finish). Sections fasten together with stainless steel screws. **Riser:** Die-cast: 14cm [5.5"] diameter, typical wall thickness 0.2cm [0.078"] ; Extruded (simulated wood finish): 0.14cm [0.055"] **Bollard Base:** 14.5cm [5.7"] diameter; stainless steel hardware Variable Height (See Page 18) **Wall Sconce:** H:35cm [13.75"] x W:14.0cm [5.5"] x D:21cm [8.25"] from mounting surface		
MOUNTING:	Includes (x3) expansion anchor bolts. Optional J-Bolt kit for new concrete pour (see pg. 66) Additional vandal resistant & finished hardware also available (see pg.68)		
DELIVERED LUMENS/ BUG RATING: (3500°K used for all photometric testing)	6010/5 LED Board	864 Lumens	B0 - U3 - G1
	6010/7 LED Board	1217 Lumens	B0 - U3 - G1
LISTINGS & TESTS:	Wet location ETL Listed to UL 1598 Standard for Luminaires - UL 8750 Standard for Safety for Light Emitting Diode (LED) Equipment for use in Lighting Products and CSA C22.2#250.0 Luminaires. RoHS compliant.		
WARRANTY & LIFE:	5 year limited warranty (see pg. 79); 50,000 HR lifetime (T_a=-25°C to 40°C; T_c max 75°C)		
CAUTION:	Fixtures must be installed and grounded in accordance with national, state and/or local electrical codes. Failure to do so may result in serious personal injury.		
SITE PREPARATION:	Prior to installation, a firm, level mounting surface must be provided by others. When installing in planting areas, bollard base should be slightly elevated to avoid prolonged submersion during heavy rains or watering. See detailed installation instructions at vltledoutdoor.com		

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Black Baffle Trim

R4RM

4" LED Recessed Downlight: Remodel Housing

Catalog No. _____

Type _____

Project _____

Specifications/Features

Housing/Mounting

Specification grade 4" remodel housing, 5-1/4" O.D. plaster ring flange. 4-7/8" Ceiling opening.
16 Gauge galvanized steel housing with die-cast aluminum heat sink.
Requires minimum 3" clearance around fixture from insulation material.
Thermal protection provided in case of improper insulation use.
Heavy duty steel plaster ring is secured to ceiling by three (3) spring clamps.
LED drivers are fully accessible from below the ceiling, and can be easily removed.
Quick-connect LED light engine enables easy installation and removal.

Electrical

UL8750 and Class 2 Compliant; RoHS Compliant, US only.
Output over voltage, over-current and short circuit protection.
Approved for through-circuit wiring. Max.: (4) 12 AWG (2in/2out).
Pre-wired junction box with convenient screwdriver pry-outs. (4) 1/2" concentric knockouts.

Lamp

Light engine consists of a high output multi-chip LED array arranged into a single LED package, enabling precise optical control without requiring lensing to diffuse multiple LED sources.
Excellent fixture-to-fixture color consistency within a 3-step MacAdam Ellipse tolerance.

Dimming

All R4RM downlights are available for non-dimming and dimming applications.
For a list of compatible dimmers, refer to Dimming Specifications sheet.

Trims

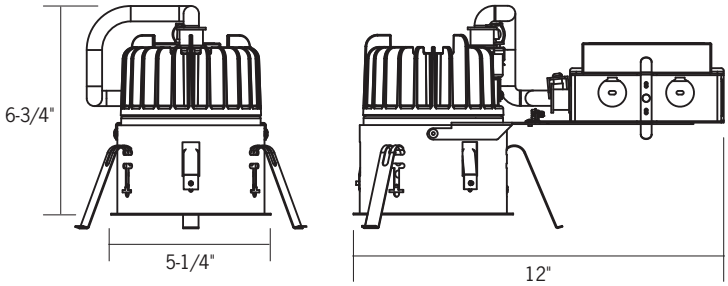
Specification Grade trims are available in several different styles and finishes for your space. Featuring a high quality Alzak™ finish; optically designed for reduced glare while maintaining maximum lumen output. See "4" LED Recessed Trims" spec sheet for information and details.

Warranty

This complete fixture is covered by ConTech's full five (5) year replacement guarantee after date of purchase.

Labels/Usage

cCSAus Certified to UL Standards. Suitable for damp locations.
Energy Star certified with the following trims: C4322-PL, C4322-WHT and C4322-CLR (all beam distributions). The –C option is not certified.
eldoLED dimming options are not Energy Star certified.
Assembled in the USA.



Ceiling Opening: 4-7/8"
Ceiling Thickness: 1/2" – 5/8"

	Series 1	Series 2	Series 3	Series 4	Series 5	Series 6
Input Wattage (W)	10	14	20	28	37	43
Input Current (A) 120/277	.08/.04	.12/.06	.17/.08	.23/.11	.31/.14	.36/.17
Input Voltage						
Dimming (Triac, ELV, 0-10V)	120V AC, 50/60Hz					
	277V AC, 50/60Hz					
Lutron HiLume® Dimming	120V AC, 50/60Hz					
Lutron Eco-System® Dimming	120V AC, 50/60Hz					
	277V AC, 50/60Hz					
eldoLED ECOdrive/SOLOdrive/ POWERdrive DMX	120V AC, 50/60Hz					
	277V AC, 50/60Hz					
Color Temp	2700K/3000K/3500K/4000K					
CRI Standard/High	83 (80min) / 90+					
Driver						
Power Factor	> 0.90					
THD	< 20%					
Dimming						
Triac, ELV, 0-10V	10-100%					
Lutron®	1-100%					
eldoLED ECOdrive	1-100%					
eldoLED SOLOdrive	0.1-100%					
eldoLED POWERdrive DMX	0-100%					

Ordering Information

Example Order: R4RM127KI2D C4322N-CLR

Housing	LED Series	Color Temp	Electrical	Dimming
R4RM				
R4RM	**1** - 10W, 1000lm **2** - 14W, 1400lm **3** - 20W, 2000lm **4** - 28W, 2600lm **5** - 37W, 3200lm **6** - 43W, 3600lm	**27K** - 2700K **30K** - 3000K **35K** - 3500K **40K** - 4000K **27KC** - 2700K, 90+ CRI **30KC** - 3000K, 90+ CRI **35KC** - 3500K, 90+ CRI **40KC** - 4000K, 90+ CRI	**12**- 120V **27**- 277V	**D**[1] - Triac, ELV, 0-10V Dimming **D3**[2] - Lutron Hi-lume 1% 2-Wire LED Driver (120V Forward Phase Only) **D4** - Lutron Hi-lume 1% EcoSystem LED Driver with Soft-on, Fade-to-Black **D6**[3] - eldoLED ECOdrive, 0-10V, 1% Dimming **D7**[3] - eldoLED ECOdrive, DALI, 1% Dimming **D8**[3] - eldoLED SOLOdrive, 0-10V, 0.1% Dimming **D9**[3] - eldoLED SOLOdrive, DALI, 0.1% Dimming **DMX**[3,4] - eldoLED POWERdrive, DMX 0.0% Dimming

Trims

See "4" LED Recessed Trims" sheet for trim information and details.

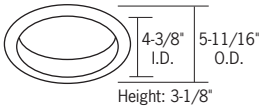
1. Triac and ELV dimming for 120V only
2. Lutron Hi-Lume dimming only available in 120V
3. eldo LED Drivers are programmed for linear curve dimming as standard. For logarithmic curve dimming, please consult factory.
4. Verify DMX Driver and Control System compatibility with factory prior to ordering.

R4 Series
4" LED Recessed Downlight Trims

Catalog No. _____

Type _____

Project _____



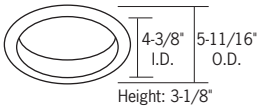
Specification Grade Specular Reflector

Specification grade specular reflector: narrow beam clear, medium beam clear, wide beam clear, platinum, or white. OD: 5-11/16"; ID: 4-3/8"

Add "–C" after finish code for wet location approved trim. Narrow Beam and White Reflector cannot be wet location approved.

C4322N-CLR* - Narrow Beam (36°), Clear Reflector
C4322M-CLR* - Medium Beam (54°), Clear Reflector
C4322W-CLR* - Wide Beam (80°), Clear Reflector
C4322-PL* - Platinum Reflector
C4322-WHT - White Reflector

**Available with White Painted Flange, add "–WPF" to part number*

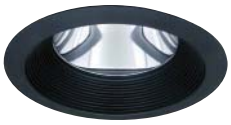


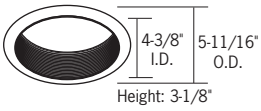
Two Piece Reflector Trim

Two piece reflector: clear or white upper reflector, clear or platinum lower cone; Includes (1) LF20-CL glass lens. OD: 5-11/16"; ID: 3-1/2"

Approved for dry/damp locations. Approved for wet locations when glass lens is installed.

C4321-CLR-(CLR,PL) - Clear Reflector/Clear or Platinum Lower Cone
C4321-WHT-(CLR,PL) - White Reflector/Clear or Platinum Lower Cone



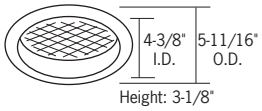


Two Piece Reflector/Baffle Trim

Two piece reflector: clear or white upper reflector, black or white lower baffle; Includes (1) LF20-CL glass lens. OD: 5-11/16"; ID: 3-1/2"

Approved for dry/damp locations. Approved for wet locations when glass lens is installed.

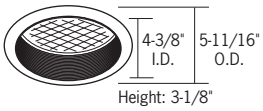
C4321-CLR-(B,P) - Clear Reflector/ Black or White Lower Baffle
C4321-WHT-(B,P) - White Reflector/ Black or White Lower Baffle



Two Piece Reflector Trim with Lens

Two piece reflector with lens: Clear or white upper reflector, clear or platinum lower cone; regressed prismatic convex lens, Wet Location Listed. OD: 5-11/16"; ID: 3-7/8"

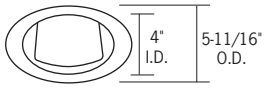
C4327-CLR-(CLR,PL) - Clear Reflector/ Clear or Platinum Lower Cone
C4327-WHT-(CLR,PL) - White Reflector/ Clear or Platinum Lower Cone



Two Piece Reflector/Baffle Trim with Lens

Two piece reflector with lens: Clear or white upper reflector, black or white lower baffle with regressed prismatic convex glass lens; 1-1/2" Regress. Wet Location Listed. OD: 5-11/16"; ID: 3-7/8"

C4327-CLR-(B,P) - Clear Reflector/ Black or White Lower Baffle
C4327-WHT-(B,P) - White Reflector/ Black or White Lower Baffle

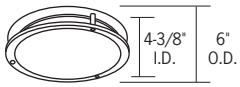


Lensed Wall Wash Trim

Lensed Wall Wash Trim; Clear, Platinum or White Reflector. OD: 5-11/16"; ID: 4"

C4323-CLR* - Clear Reflector
C4323-PL* - Platinum Reflector
C4323-WHT - White Reflector

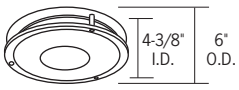
**Available with White Painted Flange, add "–WPF" to part number*



Floating Glass Trim

Floating glass disc; clear or white reflector. 1-1/4" Drop from ceiling. Glass OD: 6".

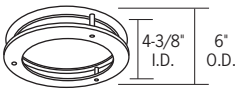
CTR4325L-(CLR,WHT)-P



Floating Glass Ring

Floating glass ring; clear or white reflector. 1-1/4" Drop from ceiling; 3-1/2" center hole. Glass OD: 6".

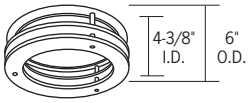
CTR4326L-(CLR,WHT)-P



Floating Single Acrylic Ring

Single floating colored acrylic ring; clear or white reflector. 1-1/2" Drop from ceiling. Acrylic Ring OD: 6"; ID: 4-3/8".

CTR4324L-(CLR,WHT)-P
1AR4(B,F,G,R,Y)



Floating Double Acrylic Ring

Stacked floating colored acrylic rings; clear or white reflector. 2-3/4" Drop from ceiling. Acrylic Ring OD: 6"; ID: 4-3/8".

CTR4324L-(CLR,WHT)-P
2AR4(B,F,G,R,Y)

Acrylic Ring Finishes: -B (blue), **-F** (frosted), **-G** (green), **-R** (red), **-Y** (yellow)

R4 Series

4" LED Recessed Downlight Photometrics

Catalog No. _____

Type _____

Project _____

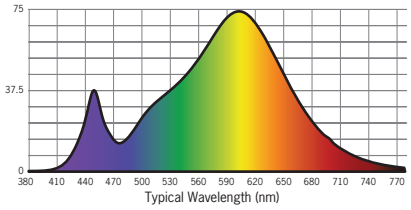
Multiplication Factors

CCT	STD CRI	HIGH CRI	SERIES 1	SERIES 2	SERIES 3	SERIES 4	SERIES 5	WHT/PL REFLECTORS
2700K	0.94	0.70	0.29	0.39	0.53	0.73	0.90	1.0
3000K	N/A	0.75	0.29	0.39	0.53	0.73	0.90	1.0
3500K	1.0	0.81	0.29	0.39	0.53	0.73	0.90	1.0
4000K	1.0	0.87	0.29	0.39	0.53	0.73	0.90	1.0

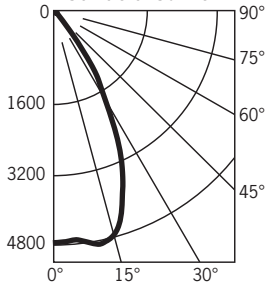
R4NC630K12D/C4322M-CLR

Designed for 50,000 Hour Lamp Life*; LM-63 Test No. 85098

Light Output (Fixture Delivered Lumens): 3603
Total Watts@120V: 43.0
Lumens Per Watt: 83.8
Color Rendering Index (CRI)[1]: 83
Color Temperature (CCT)[2]: 2988K
Spectral Power Distribution Chart[3]



Candela Curve



Candlepower Summary

FROM 0	CANDELA	LUMENS
0	4747	
5	4706	455
15	4680	1278
25	2956	1316
35	815	514
45	30	24
55	11	11
65	4	4
75	1	1
85	0	0
95	0	

Intensity Distribution

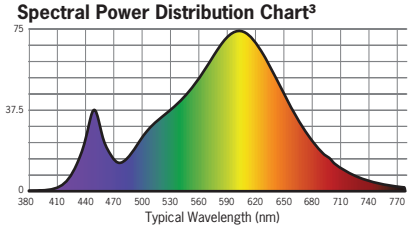
DISTANCE (FT.)	FOOTCANDLES (FC)	BEAM DIAMETER (FT.)
6'	131.9	5.4
8'	74.2	7.2
10'	47.5	9.0
12'	33.0	10.8
14'	24.2	12.6
16'	18.5	14.4

Beam Distribution: 54°
Spacing Criteria: 0.82

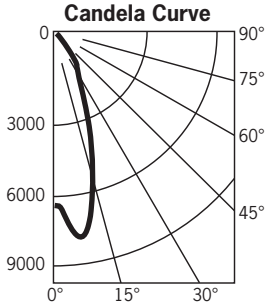
R4NC630K12D/C4322N-CLR

Designed for 50,000 Hour Lamp Life*; LM-63 Test No. 85317

Light Output (Fixture Delivered Lumens): 3567
Total Watts@120V: 43.0
Lumens Per Watt: 83.0
Color Rendering Index (CRI)[1]: 82
Color Temperature (CCT)[2]: 3027K
Spectral Power Distribution Chart[3]



Candela Curve



Candlepower Summary

FROM 0	CANDELA	LUMENS
0	6579	
5	7684	716
15	5015	1377
25	1967	950
35	780	462
45	46	36
55	18	17
65	6	7
75	2	2
85	0	0
95	0	

Intensity Distribution

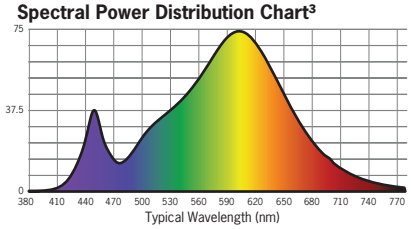
DISTANCE (FT.)	FOOTCANDLES (FC)	BEAM DIAMETER (FT.)
6'	182.8	3.9
8'	102.8	5.3
10'	65.8	6.6
12'	45.7	7.9
14'	33.6	9.2
16'	25.7	10.5

Beam Distribution: 36°
Spacing Criteria: 0.63

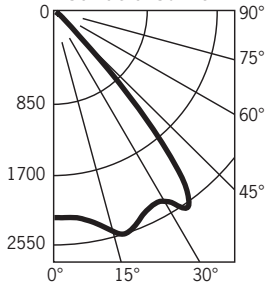
R4NC630K12D/C4322W-CLR

Designed for 50,000 Hour Lamp Life*; LM-63 Test No. 84842

Light Output (Fixture Delivered Lumens): 3749
Total Watts@120V: 44.4
Lumens Per Watt: 84.4
Color Rendering Index (CRI)[1]: 82
Color Temperature (CCT)[2]: 3025K
Spectral Power Distribution Chart[3]



Candela Curve



Candlepower Summary

FROM 0	CANDELA	LUMENS
0	2248	
5	2256	218
15	2506	701
25	2356	1102
35	2448	1380
45	222	294
55	43	41
65	11	11
75	2	2
85	0	0
95	0	

Intensity Distribution

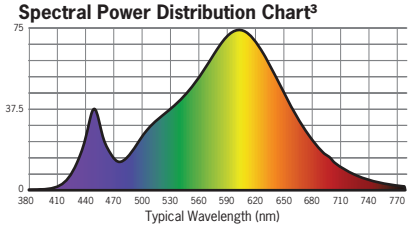
DISTANCE (FT.)	FOOTCANDLES (FC)	BEAM DIAMETER (FT.)
6'	62.4	8.9
8'	35.1	11.9
10'	22.5	14.9
12'	15.6	17.9
14'	11.5	20.8
16'	8.8	23.8

Beam Distribution: 80°
Spacing Criteria: 1.19

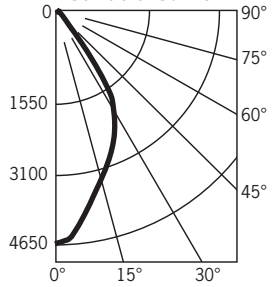
R4NC630K12D/C4322-PL

Designed for 50,000 Hour Lamp Life*; LM-63 Test No. 85318

Light Output (Fixture Delivered Lumens): 3423
Total Watts@120V: 43.0
Lumens Per Watt: 79.6
Color Rendering Index (CRI)[1]: 82
Color Temperature (CCT)[2]: 3033K
Spectral Power Distribution Chart[3]



Candela Curve



Candlepower Summary

FROM 0	CANDELA	LUMENS
0	4582	
5	4309	395
15	3376	949
25	2619	1194
35	1191	725
45	140	116
55	33	33
65	8	9
75	2	2
85	0	0
95	0	

Intensity Distribution

DISTANCE (FT.)	FOOTCANDLES (FC)	BEAM DIAMETER (FT.)
6'	127.3	4.8
8'	71.6	6.4
10'	45.8	8.0
12'	31.8	9.6
14'	23.4	11.3
16'	17.9	12.9

Beam Distribution: 57°
Spacing Criteria: 0.80

1. Accuracy of rendering colors
2. Color appearance of light source
3. Colors present within the light source

*Dependent on surrounding temperatures

Caterham Collection
Caterham Large Fluorescent Outdoor Wall Lantern-OZ

49644OZFL (Olde Bronze)

Dimensions

Height	17.50"
Width	10.00"

Project Name: _____
Location: _____
Type: _____
Qty: _____
Comments: _____

Ordering Information

Product ID	49644OZFL
Finish	Olde Bronze
Available Finishes	OZ, OZ
Collection	Caterham Collection

Dimensions

Extension	10.75"
Height from center of Wall opening	4.50"
Base Backplate	4.50 X 9.00
Weight	6.60 LBS

Specifications

Material	Aluminum
Glass Description	Saitn Etched Cased Opal

Electrical

Voltage	120V

Qualifications

Safety Rated	Wet
Title 24	Yes
Warranty	www.kichler.com/warranty

Primary Lamping

Light Source	Fluorescent
Lamp Included	Included
Number of Lights/LEDs	1
Initial Lumens	1650
Max or Nominal Watt	26W
Socket Wire	105
Socket Type	GU24
Lamp Type	MLS26GUWW
Bulb Product ID	4045

Kichler
7711 East Pleasant Valley Road
Cleveland, Ohio 44131-8010
Toll free: 866.558.5706 or kichler.com

Notes:
1) Information provided is subject to change without notice. All values are design or typical values when measured under laboratory conditions.
2) Incandescent Equivalent: The incandescent equivalent as presented is an approximate number and is for reference only.

KICHLER

ASL SERIES

LUMINAIRE POLE COMBO

Cat.#

Job: All Finishes to be Annodized Dark Bronze

Type

HUBBELL® Outdoor Lighting

Approvals

LUMINAIRE AND POLE

SPECIFICATIONS

Construction:

- Stylish vertically finned die-cast and extruded aluminum for maximum heat dissipation
- Separate optical and electrical compartment for improved thermal management and optimum component operation
- EPA: 8L – .50ft²
  16L – .62 ft²
  24L – .74 ft²

Optics:

- Premium engineered individual acrylic lenses deliver IES Type III and IV distributions
- Lens distributions are field rotatable (in 90˚ increments) or exchangeable for job site fine-tuning
- 4000K or 5000K (70 CRI) CCT
- Zero uplight

Electrical:

- Configured with 8, 16, or 24 high current and high output LEDs to replace 150, 250 and 400w HID respectively
- Universal 120-277 VAC input voltage, 50/60 Hz
- Single driver, 2100mA drive current
- Ambient operating temperature -40˚ C to 40˚ C
- Drivers have greater than 90% power factor and less than 20% THD
- LED drivers have output power over-voltage, over-current protection and short circuit protection with auto recovery
- Field replaceable surge protection device provides 10KA and 10KV protection meeting ANSI/IEEE C62.41.2 Category C High and Surge Location Category C3; Automatically takes fixture off-line for protection when device is consumed

Controls:

- 0-10V dimming drivers standard option for occupancy
- 7-pin ANSI C136.41-2013 photocontrol receptacle option available for twist lock photocontrols or wireless control modules (control accessories sold separately)

Installation:

- Tool-less entry to wiring/driver compartment
- Universal mounting block works with #2 drill pattern (See page 3 illustration)
- Fixture ships with slotted mounting block to accomodates wide range of drill patterns for easy retrofit opportunities (See page 3 illustration for dimensions)

Finish:

- Dark Bronze (textured) TGIC thermoset polyester powder paint finish applied at nominal 2.5 mil thickness

Warranty:

Five year limited warranty (for more information visit: http://www.hubbelloutdoor.com/resources warranty/

Listings:

- DesignLights Consortium (DLC) qualified, consult DLC website for more details: http://www.designlights.org/QPL
- Listed to UL1598 and CSA C22.2#250.0-24 for wet locations and 40˚C ambient temperatures
- 3G rated for ANSI C136.31 high vibration applications
- IP65 optical assembly
- IDA approved

SSS-H POLE

APPLICATIONS

- Lighting installations for side mounting of luminaires with effective projected area (EPA) not exceeding maximum allowable loading of the specified pole in its installed geographic location

CONSTRUCTION

- SHAFT: One-piece straight steel with square cross section, flat sides and minimum 0.238" radius on all corners; Minimum yield of 46,000 psi (ASTM-A500, Grade B); Longitudinal weld seam to appear flush with shaft side wall; Steel base plate with axial bolt circle slots welded flush to pole shaft having minimum yield of 36,000 psi (ASTM A36)
- BASE COVER: Two-piece square aluminum base cover included standard
- POLE CAP: Pole shaft supplied with removable cover when applicable; Tenon and post-top configurations also available
- HAND HOLE: Rectangular 3x5 steel hand hole frame (2.38" x 4.38" opening); Mounting provisions for grounding lug located behind gasketed cover
- ANCHOR BOLTS: Four galvanized anchor bolts provided per pole with minimum yield of 55,000 psi (ASTM F1554). Galvanized hardware with two washers and two nuts per bolt for leveling

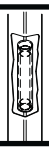
FINISH

- Dark Bronze (textured) TGIC thermoset polyester powder coat paint finish with nominal 3.0 mil thickness
- Powder paint prime applied over "white metal" steel substrate cleaned via mechanical shot blast method
- Decorative finish coat available in seven standard colors; Custom colors available; RAL number preferable; Internal protective coating available

All Single Head ASL Configurations paired with 25´ poles include

VM2 - VIBRATION DAMPER 2ND MODE

Factory installed, internal damper designed to alter pole resonance to reduce movement and material fatigue caused by 2nd mode vibration.



CERTIFICATIONS/LISTINGS

C US

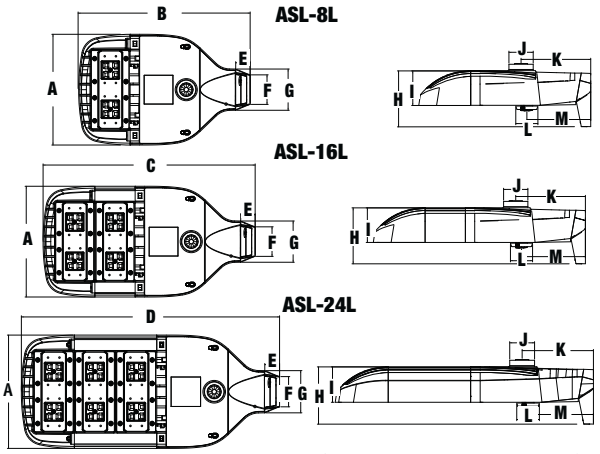
MOUNTING ORIENTATION

SINGLE DOUBLE @ 180⁰

Denotes handhole location

PRODUCT IMAGE(S)

DIMENSIONS

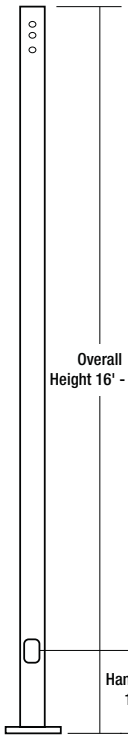


A	B	C	D	E	F	G
11.7"	17.25"	22.4"	26.6"	1.5"	3.1"	4.3"
297 mm	438 mm	569 mm	675 mm	38 mm	78 mm	109 mm

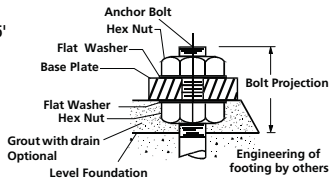
H	I	J	K	L	M
5.9"	3.6"	2.5"	7.4"	2.3"	6.7"
150 mm	91 mm	63 mm	188 mm	58 mm	170 mm

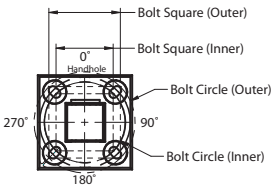
SHIPPING INFORMATION

Catalog Number	G.W(kg)/ CTN	Carton Dimensions		
		Length Inch (cm)	Width Inch (cm)	Height Inch (cm)
ASL-8L	15 (6.8)	20.75 (52.7)	15.125 (38.4)	6.9375 (17.6)
ASL-16L	19 (8.6)	25 (63.5)	15.125 (38.4)	6.9375 (17.6)
ASL-24L	24 (10.8)	25 (63.5)	15.125 (38.4)	6.9375 (17.6)

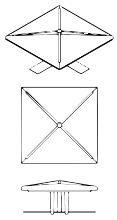


BASE DETAIL

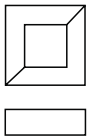




POLE CAP



BASE COVER



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ORDERING INFORMATION

Ordering Logic* - *All Configurations Dark Bronze Finish (textured)*

PRODUCT SERIES

A

LUMENS

- **6** 6K Nominal (ASL 8L)
- **12** 12K Nominal (ASL 16L
- **18** 18K Nominal (ASL 24L)

SINGLE OR DOUBLE HEAD CONFIGURATION @180 DEG.

- **-** Single Head
- **2X** Double Head @180 Deg.

LED CCT

- **N** 4000K
- **C** 5000K

DISTRIBUTION

- **T3** Type 3
- **T4** Type 4

7-PIN TWIST LOCK PC RECEPTACLE

- **-** No Receptacle
- **7PR** Includes Receptacle

POLE

- **S16** 16' Square Straight Steel
- **S20** 20' Square Straight Steel
- **S25** 25' Square Straight Steel

ANCHOR BOLTS

- **-** With Anchor Bolts/Template
- **LAB** Less Anchor Bolts/Template

***25 piece max order size for 10-day shipment.**

ACCESSORIES - Order Separately

Catalog Number	Description
TAB30M38	3/4″ x 30″ x 3″ anchor bolt set (four individual bolts)
93062959	SSS-H Series pole anchor bolt template
PTL-1	Photocontrol-twist-lock cell (120V) - requires 7PR option
PTL-8	Photocontrol-twist-lock cell (120V-277V) - requires 7PR option
PSC	Shorting-cap-twist-lock - requires 7PR option

ELECTRICAL DATA

# OF LEDS	DRIVE CURRENT (mA)	INPUT VOLTAGE (V)	SYSTEM POWER (w)	CURRENT (Amps)
8	1@(2100mA)	120	62	0.52
		208	62	0.30
		240	62	0.26
		277	62	0.22
16		120	123	1.03
		208	123	0.60
		240	123	0.52
		277	123	0.45
24		120	181	1.49
		208	181	0.86
		240	181	0.74
		277	181	0.64

LUMINAIRE AMBIENT TEMPERATURE FACTOR (LATF)

AMBIENT TEMPERATURE		LUMEN MULTIPLIER
0˚ C	32˚ F	1.06
10˚ C	50˚ F	1.03
20˚ C	68˚ F	1.01
25˚ C	77˚ F	1.00
30˚ C	86˚ F	0.99
40˚ C	104˚ F	0.97
50˚ C	122˚ F	0.94

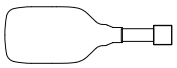
Use these factors to determine relative lumen output for average ambient temperatures from 0-40°C (32-104°F).

PROJECTED LUMEN MAINTENANCE

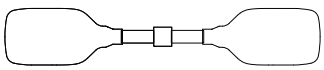
Ambient Temp.	OPERATING HOURS 0	25,000	TM-21-11[1] L90 36,000	50,000	100,000	L70 (hours)
25°C / 77°F	1.00	0.93	0.90	0.86	0.75	>125,000
40°C / 104°F	0.99	0.90	0.86	0.81	0.67	>88,000

1. Projected per IESNA TM-21-11 (* Cree XP-L, 2100mA, 105°C Ts, 6,000hrs)

EPA



Config.	Luminaire	EPA
1 @ 90˚	ASL8L	.50
	ASL8L	.62
	ASL24L	.74



Config.	Luminaire	EPA
2 @ 180˚	ASL8L	1.00
	ASL8L	1.24
	ASL24L	1.48

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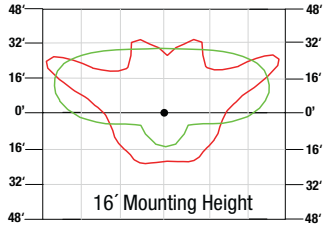
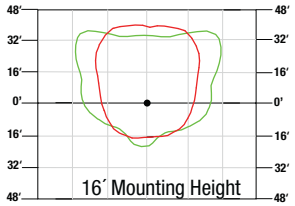
PHOTOMETRICS

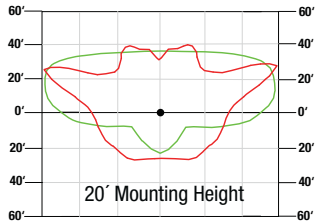
ASL-8L-4K-T3
vs. 175 MH (horizontal lamp)



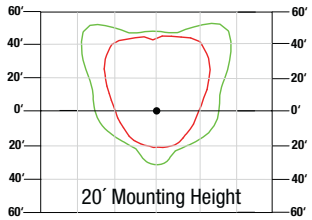
ASL-8L-4K-T4
vs. 175 MH (horizontal lamp)



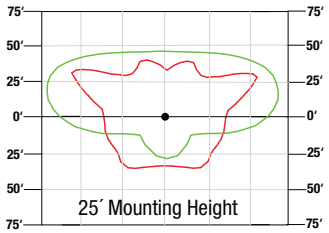
ASL-16L-4K-T3
vs. 250 MH (horizontal lamp)



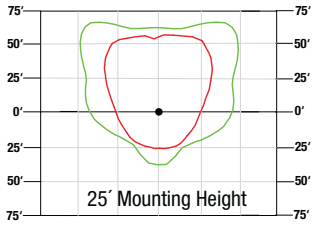
ASL-16L-4K-T4
vs. 250 MH (horizontal lamp)



ASL-24L-4K-T3
vs. 400 MH (horizontal lamp)



ASL-24L-4K-T4
vs. 400 MH (horizontal lamp)



HID 0.5 Foot-candles
LED 0.5 Foot-candles

PERFORMANCE DATA

				5K (5000K nominal, 70 CRI)					4K (4000K nominal, 70 CRI)				
# OF LEDS	DRIVE CURRENT	SYSTEM WATTS	DIST. TYPE	LUMENS	LPW[1]	B	U	G	LUMENS	LPW[1]	B	U	G
8	2100	62	3	6139	99	1	0	1	5624	91	1	0	1
			4	6285	101	1	0	1	5757	93	1	0	1
16		123	3	12175	99	2	0	2	11153	91	2	0	2
			4	12463	101	2	0	2	11417	93	2	0	2
24		181	3	17863	99	3	0	3	16364	90	3	0	3
			4	18287	101	2	0	2	16752	93	2	0	2

1 - Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown. Actual performance may differ as a result of end-user environment and application.

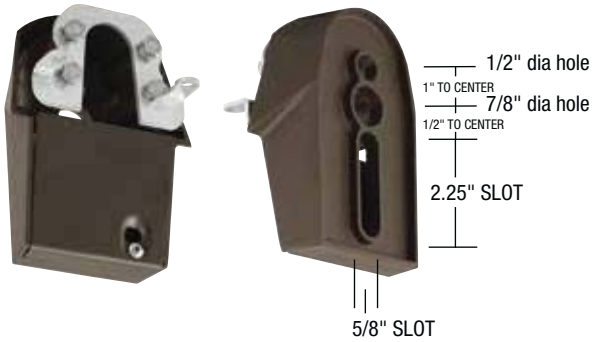
ARM/MOUNTING BLOCK

Fixture ships with universal mounting block for ease of installation. Compatible with #2 drill pattern.

1 Attach mounting block to pole

2 Slide fixture on mounting block and secure with hardware

3 Secure mounting bracket door and fixture door



HUBBELL Outdoor Lighting

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Standard ASCE7-05 Wind Map																					
	85 MPH Zone			90 MPH Zone			100 MPH Zone			105 MPH Zone (HI)			110 MPH Zone			120 MPH Zone			145 MPH Zone (PR)		
Pole Height (4"Sq x 0.125" wall thickness)	16'	20'	25'	16'	20'	25'	16'	20'	25'	16'	20'	25'	16'	20'	25'	16'	20'	25'	16'	20'	25'
Allowable EPAs (ft/sq)	19	12.7	7.3	16.7	10.9	5.9	13	7.9	3.8	11.5	6.9	2.9	7.9	4.2	0.8	7.9	4.2	0.8	4.1	1.3	NR
ASL Series - Single																					NR
ASL Series - DBL @ 180 deg.																		NR		NO ASL 24	NR

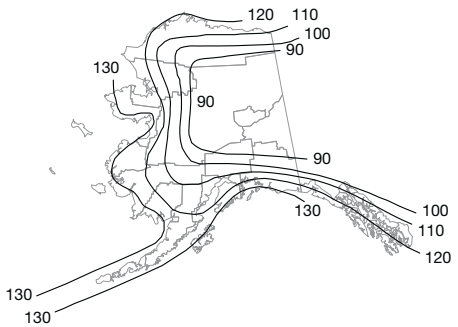
Florida Region Wind Map (2010 Building Code)																								
	115 MPH Zone			120 MPH Zone			130 MPH Zone			140 MPH Zone			150 MPH Zone			160 MPH Zone			170 MPH Zone			180 MPH Zone		
Pole Height (4"Sq x 0.125" wall thickness)	16'	20'	25'	16'	20'	25'	16'	20'	25'	16'	20'	25'	16'	20'	25'	16'	20'	25'	16'	20'	25'	16'	20'	25'
Allowable EPAs (ft/sq)	20.8	13.6	7.4	18.7	11.9	6.2	15.2	9.2	4.1	12.3	7.1	2.5	10.1	5.3	1.1	8.2	3.9	NR	6.7	2.7	NR	5.4	1.7	NR
ASL Series - Single																		NR			NR			NR
ASL Series - DBL @ 180 deg.																		NR			NR			NR

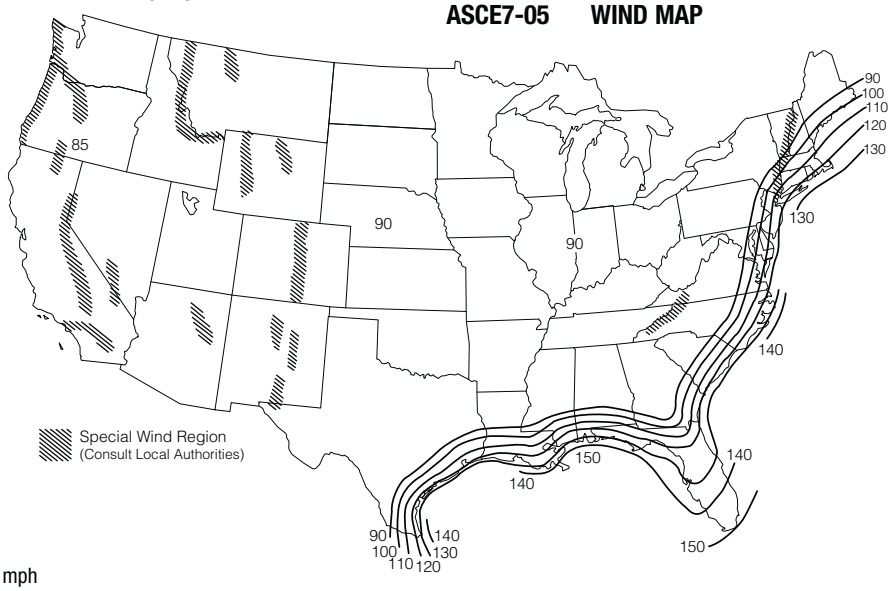
Acceptable | Includes Vibration Damper[1] | ASL-24 Exceeds Allowable Pole EPA | Not Recommended

Florida Building Code utilizes a different calculation method than ASCE, which results in different allowable EPAs.
Consult your local authorities to determine which standard to use for your project

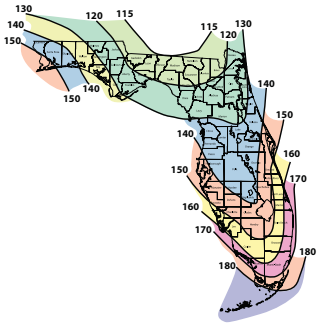
Notes: [1] Pole used in program includes a vibration damper (VM2 style) due to low luminaire EPA and 25' mounting height.
*Consult the complete list of pole notes on the pole specification sheets located on the Hubbell Lighting web site.

ASCE7-05 WIND MAP





HAWAII – 105 mph
PUERTO RICO – 145 mph



FLORIDA REGION WIND MAP (2010 FLORIDA BUILDING CODE)

- Florida region wind map above is based upon 3-second gust winds and the 2010 Florida Building Code

NOTES

- Allowable EPA, to determine max pole loading weight, multiply allowable EPA by 30 lbs.
- The tables for allowable pole EPA are based on the ASCE 7-05 Wind Map or the Florida Region Wind Map for the 2010 Florida Building Code. The Wind Maps are intended only as a general guide and cannot be used in conjunction with other maps. Always consult local authorities to determine maximum wind velocities, gusting and unique wind conditions for each specific application
- Allowable pole EPA for jobsite wind conditions must be equal to or greater than the total EPA for fixtures, arms, and accessories to be assembled to the pole. Responsibility lies with the specifier for correct pole selection. Installation of poles without luminaires or attachment of any unauthorized accessories to poles is discouraged and shall void the manufacturer's warranty
- Wind speeds and listed EPAs are for ground mounted installations. Poles mounted on structures (such as bridges and buildings) must consider vibration and coefficient of height factors beyond this general guide; Consult local and federal standards
- Wind Induced Vibration brought on by steady, unidirectional winds and other unpredictable aerodynamic forces are not included in wind velocity ratings. Consult Hubbell Lighting's Pole Vibration Application Guide for environmental risk factors and design considerations. http://cdn.hubbelloutdoor.com/content/products/literature/literature_files/Pole_Wind_Induced_Flyer_HLOI0022.pdf
- Extreme Wind Events like, Hurricanes, Typhoons, Cyclones, or Tornadoes may expose poles to flying debris, wind shear or other detrimental effects not included in wind velocity ratings

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LITHONIA LIGHTING®

Catalog Number	
Notes	Type

FEATURES & SPECIFICATIONS

INTENDED USE — Ideal for signs, flags, building facades and landscaping.

CONSTRUCTION — Compact NEMA heavy-duty construction. Die-cast aluminum housing & front bezel. Bezel removable via position-oriented hinge-cam design. Lens is thermal and shock-resistant, 1/8" clear tempered glass.

FINISH — Standard finish is dark bronze (DDB) corrosion-resistant polyester powder finish with other architectural colors available.

OPTICAL SYSTEM — Three distributions from very wide to medium narrow are available. RB and RG reflectors (horizontal lamp) feature one-piece anodized aluminum-faceted parabolic construction (semi-specular or specular) for high performance and efficiency. TA reflectors (vertical lamp) are highly effective die-formed semi-specular aluminum (Not available with 150M or 175M).

ELECTRICAL SYSTEM — Ballast: High Pressure Sodium – Reactor normal power factor ballast is standard 120V (HX – HPF is optional for 120V). All other voltages are standard high reactance, high power factor. Metal halide – High reactance, high power factor for 50-150W and standard with pulse start ignitor technology and constant-wattage autotransformer for 175W. All ballasts use copper-wound and 100% factory-tested. Electrical components are mounted to the cast aluminum housing, promoting maximum heat dissipation.

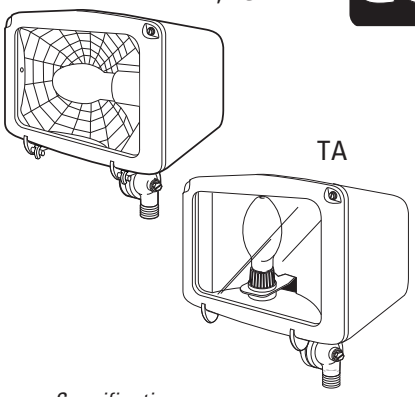
Socket: Porcelain, horizontally- or vertically-oriented, medium base socket with copper alloy, nickel-plated screw shell with center contact.

CSA, NOM or INTL required for probe start shipments outside of the US for 175M. Not available 175M SCWA.

INSTALLATION — Die-cast aluminum 1/2" NPSM threaded mounting knuckle is standard. Steel painted mounting yoke is optional.

LISTING — UL Listed. CSA or NOM Certified (see Options). UL Listed for wet locations and 25°C ambient temperature. IP65 rated.

NOTE: Specifications subject to change without notice.



CONTOUR SERIES

Floodlighting

TFM

METAL HALIDE
50-175W
HIGH PRESSURE SODIUM
35-150W

Finish to be Medium Bronze

Specifications

Height: 10.6 (26.9)
Width: 10.6 (26.9)
Depth: 6.9 (17.5)
*Weight: 14.05lbs (6.37kg)
EPA: 0.5
*Weight as configured in example below.

All dimensions are inches (centimeters) unless otherwise specified.

ORDERING INFORMATION

For shortest lead times, configure product using **standard options (shown in bold).**

Example: TFM 100M RB TB SCWA LPI

TFM

Series	Wattage	Distribution	Voltage	Ballast	Options	Lamp[15]
TFM	Metal halide 50M[1] 70M[1] **100M[1]** 150M **175M[1,2]** Ceramic metal halide 50MHC 70MHC 100MHC 150MHC High pressure sodium[1] 35S 50S 70S 100S 150S	**TA (7 x 6)** **RB (5 x 6)[1]** RG (3 x 3)[1]	**120** 208[3,4] 240[3,4] 277[3] 347[3] 480[3,4] **TB[3,6]** TBV[3,7,8] 23050HZ[9]	(blank) **Magnetic ballast** CWI Constant wattage isolated Pulse Start HID Ballast/Lamp Systems SCWA Super SCWA pulse start ballast[16]	Shipped installed in fixture SF Single fuse (120, 277, 347V)[2,10] DF Double fuse (208, 240, 480V)[2,10] PE Photocell[10] YK Yoke mounting C62 2' 16-3 SEO cord prewired C42 2' 14-3 SEO cord prewired C22 2' 12-3 SEO cord prewired CSA CSA Certified[11] NOM NOM Certified INTL International shipment for 175M Shipped separately[12] WG Wire guard VG Vandal guard UV Upper visor FV Full visor TS Tenon slipfitter (2-3/8" OD tenon)	**LPI Lamp included** **L/LP Less lamp**

Finish[13]

DNA	**Natural aluminum**
DBL	**Black**
DSB	Steel blue
DMB	**Medium bronze**
DGC	Charcoal gray
DTG	Tennis green
DBR	Bright red
DSS	Sandstone
DWH	**White**
CR	Enhanced corrosion-resistant
CRT	Non-stick protective coating[14]

Accessories:

Order as separate catalog number.

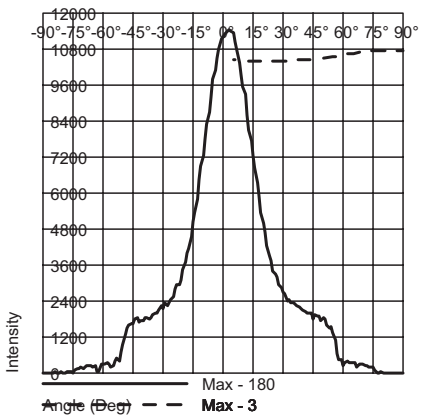
TFMWG	Wire guard
TFMVG	Vandal guard
TFMUV	Upper visor
TFMFV	Full visor
TFMTS	Tenon slipfitter (2-3/8" OD tenon)

NOTES:
1 Not available with SCWA.
2 Not available with TA reflector.
3 High reactance, HPF ballast (XHP) for HPS.
4 Must specify CWI for use in Canada.
5 Not available in Canada.
6 Optional multi-tap ballast (120, 208, 240, 277V). In Canada120, 277, 347V; ships as 120/347.
7 Optional 5-tap ballast (120, 208, 240, 277, 480V).
8 Only available with 175W.
9 Consult factory for available wattage.
10 Must specify voltage. Not availabe with TB or TBV.
11 Not available with TBV.
12 May be ordered as an accessory.
13 See www.lithonia.com/archcolors for additional color options.
14 Black finish only.
15 Must be specified.
16 Available with 150M or 150MHC only.

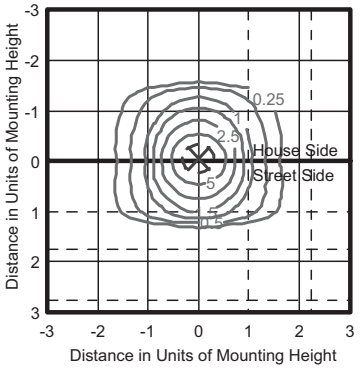
TFM Floodlight

TFM 150MHC RB, (horizontal lamp), 150W ceramic metal halide lamp, 14,000 rated lumens, test no. 97020503P

Cartesian Plot

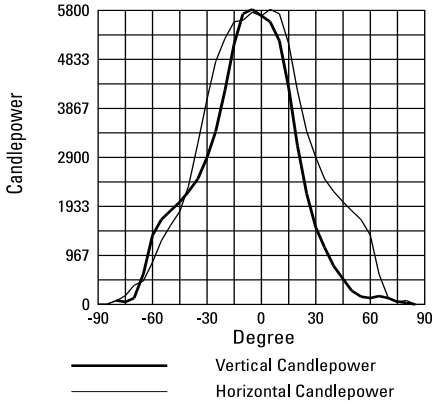


ISOILLUMINANCE PLOT (FC)
Mounting Height = 20 ft.
Classification: Unclassified (Type I, Very Short), Full Cutoff



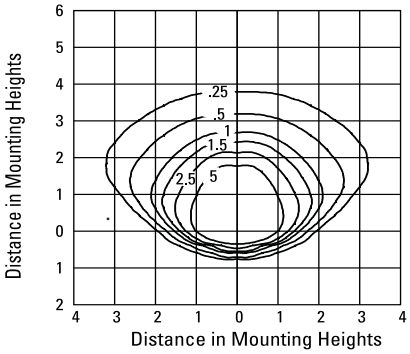
TFM 150S TA, (vertical lamp), 150W high pressure sodium lamp, 15800 rated lumens, test no. 98061202.

Cartesian Plot



Nema Type : 7 H x 6 V
Beam Spread: 131 H x 103 V
Beam Efficiency 10% : 48.2%
Beam Flux 10% (lumens) : 7622
Maximum Candela : 5800

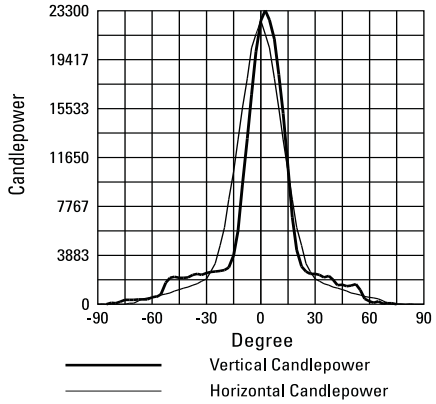
Iso-Illuminance Contour



Aiming Angle = 45
Mounting Height = 10ft.

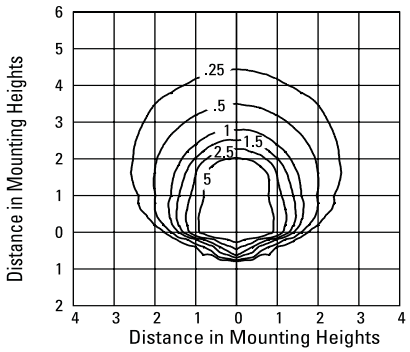
TFM 150S RG, (horizontal lamp), 150W high pressure sodium lamp, 16000 rated lumens, test no. 97060903.

Cartesian Plot



Nema Type : 4 H x 4 V
Beam Spread: 57 H x 70 V
Beam Efficiency 10% : 35.0%
Beam Flux 10% (lumens) : 5604
Maximum Candela : 23300

Iso-Illuminance Contour



Aiming Angle = 45
Mounting Height = 10ft.

Mounting Height Correction Factor
(Multiply the fc level by the correction factor)
15 ft. = .44
20 ft. = .25
25 ft. = .16

NOTES:
1 Photometric data for other distributions can be accessed from the Lithonia Lighting website. (www.lithonia.com)

$$\left(\frac{\text{Existing Mounting Height}}{\text{New Mounting Height}}\right)^2 = \text{Correction Factor}$$

LITHONIA LIGHTING®
An Acuity Brands Company

Sheet #: TFM-M-S

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Lithonia Lighting
Outdoor
One Lithonia Way, Conyers, GA 30012
Phone: 770-922-9000 Fax: 770-918-1209
www.lithonia.com

TFM

Contour®

Intended Use

For signs, flags, building facades and landscaping.

Features

Housing – Compact, heavy-duty construction. Die-cast aluminum housing and removable front bezel. Lens is thermal and shock-resistant, clear tempered glass. Standard finish is dark bronze (DDB) corrosion-resistant polyester powder.

Optics – Hydroformed, anodized aluminum, faceted parabolic (RB, RG) or die-formed (TA) construction provides high efficiencies.

Electrical – Ballast is high-reactance, high-power factor for 50-150W metal halide or constant wattage autotransformer for 175W metal halide. Ballast is reactor normal-power factor for high pressure sodium (XHP available). Ballast is copper wound and 100% factory tested. UL Listed. Electrical components mounted to the cast-aluminum housing for maximum heat-dissipation.

Socket – Porcelain, medium-base, horizontally-oriented (RB, RG) or vertically-oriented (TA) socket with copper alloy, nickel-plated screw shell and center contact. UL Listed 1500W, 600V. 4-pin socket for compact fluorescent.

Installation – Die-cast aluminum 1/2" NSPM threaded mounting knuckle is standard. Corrosion-resistant painted steel yoke optional. Above-horizontal aiming standard. External screws treated for corrosion resistance.

Listings

UL Listed (standard) (ambient temperature 25°C for 150M and above, 40°C for 100M and below; 150S and below). CSA Certified or NOM Certified (see Options). UL Listed for wet locations. IP65 rated.

lightquick® XD
Express delivery products.
See page11 for details about LightQuick XD.

Description
TFM 175M RB TB LPI

Ordering Information

Example: **TFM 175M RB 120 LPI**

Designation

High pressure sodium
- **TFM 35S**[1]
- **TFM 50S**
- **TFM 70S**
- **TFM 100S**
- **TFM 150S**

Metal halide
- **TFM 50M**
- **TFM 70M**
- **TFM 100M**
- **TFM 150M**
- **TFM 175M**

Compact fluorescent
- **TFM 13DTT**
- **TFM 18DTT**
- **TFM 26DTT**
- **TFM 32TRT**
- **TFM 42TRT**

Distribution

- **TA** (7x6)[2]
- **RB** (6x6)
- **RG** (3x3)

Voltage

- **120**
- **208**[3]
- **240**[3]
- **277**
- **480**[4]
- **TB**[5]
- **TBV**[6]
- **MVOLT**[7]

Options/accessories

Installed
- **SF** Single fuse, 120V, 277V, 347V[8,9]
- **DF** Double fuse, 208V, 240V, 480V[8,9]
- **GMF** Internal slow-blow fuse, CF only (n/a MVOLT)
- **CR** Enhanced corrosion resistance
- **CRT** Non-stick protective coating[10]
- **PE** Photoelectric cell, button type (n/a 480V)[8]
- **XHP** High reactance high power factor ballast[11]
- **LPI** Lamp included
- **L/LP** Less lamp
- **YK** Yoke mounting
- **C62** 2' 16-3 cord pre-wired[12]
- **C42** 2' 14-3 cord pre-wired[12]
- **C22** 2' 12-3 cord pre-wired[12]
- **CSA** CSA Certified[13]
- **NOM** NOM Certified (consult factory)
- **SCWA** Super CWA pulse start ballast (only available in 150M with TA distribution)

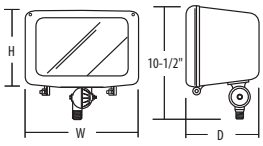
Shipped separately
- **TFMWG** Wireguard
- **TFMVG** Vandal guard
- **TFMUV** Upper visor[14]
- **TFMFV** Full visor[14]
- **TFMTS** Tenon slipfitter (2-3/8" OD tenon, for ground mounting only)
- **TM** Tenon mount[15]

For optional architectural colors, see page 543.

NOTES:
1. 120V only, n/a XHP.
2. TA distribution not available with 175M, compact fluorescent lamps, TBV or fusing.
3. Consult factory for availability in Canada.
4. Not available in Canada.
5. Optional multi-tap ballast (120V, 208V, 240V, 277V). In Canada 120V, 277V, 347V; ships as 120V/347V.
6. Optional 5-tap ballast (120V, 208V, 240V, 277V, 480V), n/a in Canada.
7. Optional multi-volt electronic ballast (for compact fluorescent lamps only) capable of operating on any line voltage from 120V-277V.
8. Not available in multi-tap ballast.
9. Not available with TA reflector.
10. Black finish only.
11. Available for 120V only. Standard for 208V, 240V, 277V, 347V, TB and TBV.
12. Yoke mounting only.
13. Not available with TBV.
14. Field modification required unless ordered with fixture.
15. Requires TFMTS.

Dimensions are shown in **inches (centimeters)** unless otherwise noted.

EPA:	.5ft² (.05m²)
Width:	10.6 (26.9)
Depth:	6.9 (17.5)
Height:	10-1/2 (26.7)
Weight:	15 lbs (6.8 kg)



Lamp/Fixture Data

Wattage	Dist.	Ballast	Lamp type	Beam spread H°xV°	NEMA dist.
High pressure sodium (med/clear)					
70	RB	RNP or XHP	E17	94x104	5x6
70	RG	RNP or XHP	E17	42x35	3x3
70	TA	RNP or XHP	E17	131x103	7x6
150	RB	RNP or XHP	E17	88x95	5x5
150	RG	RNP or XHP	E17	57x65	4x4
150	TA	RNP or XHP	E17	131x103	7x6
Metal halide (med/clear)					
100	RB	XHP	E17	83x108	5x6
100	RG	XHP	E17	58x60	4x4
100	TA	XHP	E17	128x107	6x6
175	RB	CWA	ED17	97x105	5x6
175	RG	CWA	ED17	42x35	4x4
Fluorescent					
26DTT	RB	electronic, HPF	T4	125x132	6x6
42TRT	RB	electronic, HPF	T4	120x122	6x6

FXLED78T

High power, wide distribution LED floodlight. Replaces 250W MH. Patent Pending airflow technology ensures long LED and driver lifespan. Use for building facade lighting, sign lighting, LED landscape lighting and instant-on security lighting.

Color: Bronze

Weight: 24.0 lbs

Project:	Type:
Prepared By:	Date:

Driver Info

Type:	Constant Current
120V:	0.66A
208V:	0.41A
240V:	0.35A
277V:	0.30A
Input Watts:	79W
Efficiency:	99%

LED Info

Watts:	78W
Color Temp:	5100K
Color Accuracy:	67 CRI
L70 Lifespan:	100000
Lumens:	7,597
Efficacy:	97 LPW

FINISH TO BE BRONZE; AS SHOWN ABOVE

Technical Specifications

Listings

UL Listing:

Suitable for wet locations. Suitable for ground mounting.

IESNA LM-79 & LM-80 Testing:

RAB LED luminaires have been tested by an independent laboratory in accordance with IESNA LM-79 and LM-80, and have received the Department of Energy "Lighting Facts" label.

DLC Listed:

This product is on the Design Lights Consortium (DLC) Qualified Products List and is eligible for rebates from DLC Member Utilities.
DLC Product Code: P0000170A

LED Characteristics

Lifespan:

100,000-hour LED lifespan based on IES LM-80 results and TM-21 calculations.

LEDs:

Six multi-chip, 13Watt high-output, long-life LEDs.

Color Consistency:

7-step MacAdam Ellipse binning to achieve consistent fixture-to-fixture color.

Color Stability:

LED color temperature is warrantied to shift no more than 200K in CCT over a 5 year period.

Color Uniformity:

RAB's range of CCT (Correlated Color Temperature) follows the guidelines of the American National Standard for (SSL) Products, ANSI C78.377-2015.

Construction

IP Rating:

Ingress Protection rating of IP66 for dust and water.

EPA:

2

Ambient Temperature:

Suitable for use in 40°C ambient temperatures.

Cold Weather Starting:

The minimum starting temperature is -40°C/-40°F

Thermal Management:

Superior heat sinking with external Air-Flow fins.

Housing:

Die-cast aluminum housing and door frame.

Mounting:

Heavy-duty Trunnion mount with stainless steel hardware.

Reflector:

Specular vacuum-metallized polycarbonate

Gaskets:

High-temperature silicone gaskets.

Finish:

Our environmentally friendly polyester powder coatings are formulated for high-durability and long-lasting color, and contains no VOC or toxic heavy metals.

Green Technology:

Mercury and UV free.

Optical

NEMA Type:

NEMA Beam Spread of 6H x 6V

Replacement Range:

The FXLED78 can be used to replace 150 - 320W Metal Halide Floodlights based on delivered lumens.

Electrical

Driver:

Constant Current, Class 2, 2000mA, 100-277V, 50-60Hz, 1.1A, Power Factor 99%

THD:

5% at 120V, 13.1% at 277V

Surge Protection:

4kV

Other

Equivalency:

The FXLED78 is Equivalent in delivered lumens to a 250W Metal Halide.

California Title 24:

See FXLED78SF/D10, FXLED78SF/BL, FXLED78SF/PCT for a 2013 California Title 24 compliant product. Any additional component requirements will be listed in the Title 24 section under technical specifications on the product page.

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Technical Specifications (continued)

Other

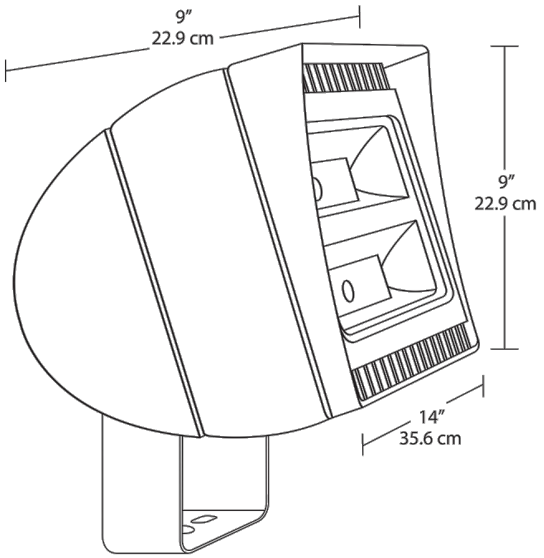
Warranty:

RAB warrants that our LED products will be free from defects in materials and workmanship for a period of five (5) years from the date of delivery to the end user, including coverage of light output, color stability, driver performance and fixture finish.

Patents:

The FXLED78 design is protected by U.S. Pat. D659,280, Canada Pat. 143155, China Pat. ZL201130443125.9, Mexico Pat. 36558 and pending patent in Taiwan.

Dimensions



Features

- 78 Watt high-performance LED
- Replaces 250W MH floodlights
- 100,000 hour life based on LM-80 tests
- Air-flow technology heatsink
- NEMA type - 6H x 6V
- Slipfitter and trunnion mounting available
- 5-year warranty

Ordering Matrix

Family	Watts	Mount	Color Temp	Finish	Dimming	Voltage	Photocell	Bi-Level
FXLED								
	78 = 78W	= Arm	= 5000K (Cool)	= Bronze	= No Dimming	= 120-277V	= No Photocell	= No Bi-Level
		T = Trunnion	**Y** = 3000K (Warm)	**W** = White	**/D10** = Dimmable	**/480** = 480 Volt	**/PCT** = 120-277V Twistlock Photocell	**/BL** = Bi-Level
		SF = Slipfitter	**N** = 4000K (Neutral)				**/PCT4** = 480V Twistlock Photocell	

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Signage Specifications

THE GARDNER SCHOOL

250 Barclay Blvd.
Lincolnshire, IL 60069

Prepared: September 12, 2016
BY

NORR

Plastic Letters

Formed Plastic

GOUDY EXTRA BOLD

ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz
1234567890/&-,.

	3"*	4"*	6"	9"	12"	15"	18"	24"	30"	36"
Depth	3/8	1/2	3/4	1	1 1/4	1 1/2	1 1/2	1 1/2	2	2
Stroke	3/4	7/8	1 3/8	2	2 5/8	3 1/4	3 7/8	5 1/4	6 7/8	7 7/8

* Upper case only

31 STANDARD PIGMENTED COLORS

2025 Black	4310 Dove Grey	5687 White	2718 Ivory	4660 Desert Sand	2000 Yellow	2540 Mango	2119 Orange
2793 Red	1875 Brick Red	2240 Maroon	2280 Black Cherry	2287 Purple	2767 Midnight Blue	2050 Dark Blue	2860 Medium Blue
2648 Light Blue*	3210 Teal Blue	3555 Spring Green	2108 Light Green	2030 Dark Green	2162 Hunter Green	2418 Brown	
6371 Yellow Gold	2756 Metallic Gold	6366 Copper	3120 Medium Bronze	3130 Duranodic Bronze	8886 Metallic Silver		

For accurate color repre
can request our FREE fo
color chips.

* Light Blue is not recommended for use with studs or pads.
Painted semi-gloss, satin or matte Add 30%
Custom Painted Colors Add 30% + $20 Match Fee.

Village of Lincolnshire

Agenda Item
3.1 ARB

REQUEST FOR BOARD ACTION
Architectural Review Board
August 16, 2016

Subject:	The Gardner School, 250 Barclay Blvd.
Action Requested:	Consideration and Discussion of Site Design, Building Elevations, Signs, Landscaping and Lighting for Proposed Children's Daycare Center
Petitioner:	The Gardner School/Viking Development, LLC
Originated By/Contact:	Tonya Zozulya, Economic Development Coordinator Department of Community & Economic Development
Advisory Board Review:	Architectural Review Board

Background:

- The Gardner School/Viking Development LLC, contract purchaser of the subject property, seeks zoning and design approvals to establish and operate a daycare center on a vacant property at 250 Barclay Blvd. The subject property is located immediately south of Noah's Event Venue and is shown on the attached location map.
- 250 Barclay Blvd. is located in the O/Ic Office/Industrial Zoning District. Daycare centers are permitted with a Special Use Permit in the O/Ic District as a commercial activity which supports corporate employees. The property is also located in the Office/Industrial Sign District.
- The site is part of the Lincolnshire Corporate Center and is subject to the Center's covenants. Van Vlissingen & Co provided conceptual approval for the proposed use in the attached email.
- Daycare centers are regulated by the Illinois Department of Children and Family Services (DCFS).
- On June 13, 2016, the Village Board reviewed and referred this request to the Zoning Board for a Public Hearing regarding a Special Use permit and to the ARB for design review. On June 28, 2016, the internal Development Review Team met to review the proposal and provided comments to the petitioner. On August 9, 2016, the Zoning Board held a Public Hearing and unanimously recommended approval.

Project Summary:

- The petitioner intends to develop the site as a daycare center.
- The current ARB's review should focus on the following areas:
    - Site design
    - Building elevations
    - Ground sign
    - Landscaping, and
    - Exterior lighting

Note: (a) No site amenities are included in the current proposal; (b) Internal building design elements or functions are not within the ARB purview.

Plan Review Comments:

- Site Design: The petitioner proposes to orient the building towards Barclay Boulevard in the northwest portion of the property and locate parking in front of the building along Barclay Boulevard. An enclosed playground area is proposed to be attached to the south end of the building. Site ingress and egress is proposed to be one-way circulation via two curb cuts from Barclay Boulevard. Existing wet-bottom detention is provided in the far southwest portion of the site. The petitioner does not believe additional detention will be required as part of this development based on their preliminary discussions with the Lake County Stormwater Management Commission (SMC). A code-compliant trash enclosure is proposed in the southeast portion of the site, near the exit. The Site Plan shows 42 surface diagonal parking spaces in front of the building meeting code requirements. ADA and drop-off spaces will be located adjacent to the building entrance.

- Building Elevations: The attached plans depict a single-story, 18' tall building designed in a traditional architectural style reflecting the education mission of the Gardner School. The architectural elements include a portico, dormers, pilasters, corbels, balconies and a cupola. Proposed materials include brick, stone, hardiboard siding in a restrained color scheme (see attached building elevations and material and color sample sheet). The elevations are also enhanced with bahama shutters and decorative sconces. The petitioner proposes no identification wall sign since this type of signs is prohibited by the Lincolnshire Corporate Center covenants for all buildings in that part of the Corporate Center. In lieu of a wall sign, the petitioner proposes a non-illuminated medallion over the main entrance resembling the Gardner School logo. The plans show all rooftop units will be screened with existing parapet walls. The 6' tall brick trash enclosure is designed to match the building.

- Ground Sign: One 5'9" tall and 6'-61/2" wide double-sided ground monument identification sign displaying "The Gardner School" and a logo is proposed south of the site entrance. The sign materials consist of a cast stone cap/sill to match the building, a stone pillar and base, and an aluminum sign panel. The lettering is proposed to be raised plastic and illuminated from ground lights. Sign location, dimensions, design and landscaping meet code requirements.

- Landscaping: Extensive landscaping, consisting of a variety of shade and evergreen trees and bushes, grasses and perennials, is proposed in the public right of way along Barclay Boulevard, around the building perimeter, adjacent to the playground area and at the base of the ground sign. The proposed landscape plan meets code requirements.

- Exterior Lighting: The lighting plan consists of light poles, wall sconces and a pendent portico light (see attached plans and cut sheets). The lighting intensity at the property line and pole height meets code.

Recommendation:
Staff recommends forwarding a favorable recommendation of the proposed development plans.

Motion:
The Architectural Review Board moves to recommend to the Village Board for their approval of a proposed site design, building elevations, signs, landscaping and lighting for a proposed

development of a children's daycare center for The Garner School, as presented in the packet submitted by Norr and Woolpert, date stamped received August 8, 2016, and as depicted in the material/color sample board provided at the meeting, subject to the Staff recommendations, and further subject to. . . . .

{Insert any additional conditions or modification desired by the Architectural Review Board}

Reports and Documents Attached:

- Location map, prepared by MGP GIS Consortium.
- Cover letter, prepared by Bryan Slonsky of Norr, dated August 16, 2016, date stamped received August 8, 2016.
- Presentation packet, submitted by Norr and Woolpert, date stamped received August 8, 2016.
- Office/Industrial Sign District ground sign requirements.
- Conceptual use approval from Van Vlissingen & Co.

Meeting History	
Village Board Preliminary Evaluation (COW):	June 13, 2016
Zoning Board Meeting	August 9, 2016
Architectural Review Board (current)	August 16, 2016

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

APPROVED Minutes of the **ARCHITECTURAL REVIEW BOARD** held on Tuesday, August 16, 2016, in the Public Meeting Room of the Village Hall, One Olde Half Day Road, Lincolnshire, IL.

PRESENT: Acting Chairperson Kennerley, Members Gulatee, Baskin, and Orzeske

ABSENT: Chairman Grover, Member Jensen, Alternate Barranco, and Trustee-Liaison Hancock

ALSO PRESENT: Tonya Zozulya, Economic Development Coordinator and Adam Letendre, Assistant Village Manager/Director of Community and Economic Development

CALL TO ORDER

1.0 **ROLL CALL**

The roll was called by **Economic Development Coordinator Zozulya** and **Acting Chairperson Kennerley** declared a quorum to be present.

2.0 APPROVAL OF MINUTES

2.1 Approval of the July 26, 2016, Minutes of the Rescheduled Architectural Review Board.

Member Baskin moved to approve the minutes as written and **Member Orzeske** seconded the motion to approve the July 26, 2016 Rescheduled Architectural Review Board Minutes. The motion passed unanimously by voice vote.

2.0 ITEMS OF GENERAL BUSINESS

Economic Development Coordinator Zozulya introduced **Adam Letendre** as the new **Assistant Village Manager/Director of Community and Economic Development,** and on behalf of the ARB**, Acting Chairperson Kennerley** welcomed him.

3.1 Consideration and Discussion of Site Design, Building Elevations, Signs, Landscaping and Lighting for a Proposed Children's Daycare Center, 250 Barclay Blvd (Viking Development LLC/The Gardner School).

Tonya Zozulya, Economic Development Coordinator, stated the Petitioner was before the Village Board on June 13, 2016, to seek their preliminary feedback for a new daycare center, which is currently a vacant site at 250 Barclay Blvd. It was favorably received by the Village Board and referred to the Zoning Board for a Public Hearing on August 9, 2016, to which there was unanimous recommendation for approval. **Economic Development Coordinator Zozulya** also noted the Petitioner is here to present the site and building design and suggested focusing on the following areas: site design, building elevations, ground sign, landscaping and exterior lighting. With regard

to the site design, the petitioner proposes to orient the building towards Barclay Boulevard in the northwest portion of the property and locate parking in front of the building along Barclay Boulevard. The plans depict a single-story, 18' tall building designed in a traditional architectural style reflecting the education mission of The Gardner School. All roof-top units will be screened with existing parapet walls. The 6' tall brick trash enclosure is designed to match the building. There is one ground sign proposed south of the site entrance and it will display "The Gardner School" and a logo. No identification wall sign is proposed, since this type of signs is prohibited by the Lincolnshire Corporate Center covenants for all buildings in that part of the Corporate Center. The Landscape Plan and exterior lighting proposed meet Village Code requirements. Staff is in support of the development plans being presented.

Rachel Turner-Lauck, with Norr Architects, displayed the site plan and reiterated the building faces Barclay Boulevard with an enclosed playground area proposed to be attached to the south end of the building. The site ingress and egress is proposed to be one-way circulation via two curb cuts from Barclay Boulevard, with 42 diagonal parking spaces in front of the building, meeting code requirements. The Landscape Plan was also shown with its extensive landscaping proposed in the public right-of-way along Barclay Boulevard, around the building perimeter, adjacent to the playground area, and at the base of the ground sign. **Ms. Turner-Lauck** presented the building elevations which featured a mixture of materials typical for The Gardner School through the use of muted tones. There is a stone base, with brick and hardieplank siding in a restrained color scheme. The architectural elements include a portico, dormers, pilasters, corbels, balconies and a cupola. The elevations are also enhanced with bahama shutters and decorative sconces. The south elevation features two glass-paned garage doors which provide an indoor playground that opens up to the attached outdoor playground. There is a 4' tall metal rail fence, which meets DCFS requirements, surrounding the playground area. The roof plan showed the parapet wall design which will serve to screen the roof-top units. The 6' tall trash enclosure design uses the same brick to match the building. The ground sign plan featured the sign materials consisting of a cast stone cap/sill to match the building, a stone pillar and base, and an aluminum sign panel with The Gardner School medallion. The lettering is proposed to be raised plastic and illuminated from ground lights. Sign location, dimensions design and landscaping meet code requirements. **Ms. Turner-Lauck** completed her presentation by briefly displaying the floor plan with the indoor playground and interior layout to accommodate 200 children, as well as the color renderings which featured the various architectural elements.

In reviewing the building elevations, **Member Baskin** noted the building looks like a retail commercial building and there is nothing to elevate the notion of education or the presence of children in the building design, as well as the scale does not relate to children. He requested insight as to how this elevation comes about and why it would be a signature to this particular school. **Ms. Turner-Lauck** noted the architectural design and detailing is consistent with what The Gardner School is looking for with regard to materials and some elements. The

footprint is identical to other locations in the area by combining materials and styles. In all their locations, the client likes to see the various architectural elements incorporated in order to have a visual continuity and an architectural style of the community. **Member Gulatee** stated his agreement with **Member Baskin** with regard to the architecture of the building elevations and the design should focus on the children. **Ms. Turner-Lauck** noted their willingness to work with the Village and go back to their client with the Board's feedback in order to make the design better reflect the use of the building.

Economic Development Coordinator Zozulya offered some background with regard to the first design presented by the architectural team, as the elevations looked nothing like this evening's proposal. The elevations were flat and completely industrial-like, similar to the other pre-fab buildings. Upon review of the initial design, Staff reached out and asked the applicant to come up with another variation on their traditional design that would be more in keeping with the educational mission of the school. This is their second attempt, which was given a lot of thought. Staff's initial read on it is that it complies with code and is in keeping with the Village's material and color palette. Discussion ensued between the Board and the applicant with suggestions for feedback. **Mr. Orzeske** added his agreement with **Members Gulatee** and **Baskin** and suggested changing colors and scaling some of the architectural features to the children. **Member Gulatee** expressed keeping the design simple and staying with one style in order to keep the context of the overall building architecture. **Acting Chairperson Kennerley** noted that the proposed exterior design is geared toward the parents while the interior design is more child-like. She suggested streamlining the client's vision with a focus on the exterior design, the colors, and choice of design elements to better fit into the community. **Member Baskin** reiterated that it needs to look like a school and not like a retail mall. **Member Orzeske** agreed that it should resemble a school, albeit, it might be better if it does not look like a school given our current social environment. In conclusion, **Ms. Turner-Lauck** was appreciative of the Board's feedback and will return to next month's meeting with the revisions.

With regard to the Site Plan, **Member Gulatee** expressed concern for the proposed one-way traffic circulation and suggested thought be given to reversing the overall layout of the school by placing the playground on the north end of the school. This would allow for a longer stretch of cars on the site for drop-off/pickup purposes in order to avoid a potential backup of traffic on Barclay Boulevard. **Jon Grzywa**, with Woolpert Civil Engineers for the project, stated the one-way circulation works well at their other school locations, because the drop-off/pickup times are staggered during the two-hour time frames and traffic congestion has never been an issue. **Member Gulatee** questioned the turning radius and sufficient clearance for the garbage trucks at the trash enclosure area. **Mr. Grzywa** noted operationally there is ample clearance, but offered to soften the north radius to give the trucks more room in order to avoid damaging any landscaping or curb areas. **Acting Chairperson Kennerley** inquired if the drive aisle was sufficient for backing out of the parking space, to which **Mr**. **Grzywa** noted the drive aisle is 18' wide and there is enough room to circulate throughout

the site. He added that the angled parking is easier for maneuvering out of the parking space.

In response to **Member Gulatee's** concern with forming a motion, **Economic Development Coordinator Zozulya** recommends tabling this agenda item until the September 20th ARB meeting, as it is clear from the Board's discussion they are not in favor of the proposed building design. She suggested the architect should feel free to offer more than one design in order to be better prepared. In order to keep the meeting moving forward, she offered to the Board to continue with the ground sign, landscaping, and exterior lighting discussions. **Member Gulatee** expressed his satisfaction with the ground sign design as it is clean and simple, to which **Member Baskin** concurred and reminded the applicant to keep the revised building design and sign consistent and proportionate. **Acting Chairperson Kennerley** was satisfied with the Landscape Plan and noted a nice mixture of evergreens and trees and diversity in colors, and to make certain there is year-round color in the landscaping. **Member Baskin** noted that trees can create a scale over time and shaping space, which can serve to break up and add interest to building elevations. **Member Gulatee** felt the exterior lighting is fine and questioned the height of the lights. **Economic Development Coordinator Zozulya** noted the height range is from 17' to 23' and it meets the code required maximum of 25', albeit the height may have to be adjusted according to the scale of the revised building design. **Member Gulatee** suggested using bollards in consideration of scaling the elevations. **Acting Chairperson Kennerley** added to make certain there is enough lighting along the building front and the site especially during the winter months when the daylight is shortened. It was noted the photometric plan was included in the presentation packet for this agenda item.

3.2 Design Workshop on Proposed Development Plans for Culver's Restaurant and Lincolnshire Marketplace Shopping Center, Northeast Corner of Milwaukee Ave and Rte 22 (Lincolnshire Marketplace LLC).

Tonya Zozulya, Economic Development Coordinator, pointed out that no formal ARB vote/recommendation will take place, as this item is a scheduled design workshop. The petitioner intends to incorporate the ARB's comments, further refine their proposal, and return to the September ARB meeting and seek a formal review and recommendation at that time. In providing an overview, **Economic Development Coordinator Zozulya** noted Draper and Kramer, an affiliate of Lincolnshire Marketplace LLC, has been working with the Village since 2013 when they submitted conceptual site development plans to the Village Board to generate input from the Village regarding site layout and design. In March 2014, the ARB held a design workshop regarding those plans and provided comments to the developer. Following the 2014 ARB meeting, the plans were put on hold until specific tenants were identified. On June 27, 2016, the Village Board reviewed and referred the developer's request to the ARB for design review. Following the ARB review and eventual recommendation, the Village Board will hold a Public Hearing to amend the Downtown Planned Unit Development regarding Culver's Restaurant and shopping center ground signs. Due to this agenda item being a Design Workshop, **Economic Development**

Village of Lincolnshire

Agenda Item 3.2 ARB

REQUEST FOR BOARD ACTION
Architectural Review Board
October 18, 2016

Subject:	Marigold Maison Indian Cuisine, 900 Milwaukee Ave
Action Requested:	Approval of a New Outdoor Patio, Storefront Design and Wall Signs.
Petitioner:	Marigold Maison Indian Cuisine
Originated By/Contact:	Tonya Zozulya, Economic Development Coordinator Department of Community & Economic Development
Advisory Board Review:	Architectural Review Board

Background:

- Marigold Maison Indian Cuisine (Marigold) seeks approval of a new outdoor patio, storefront design changes and wall signs for their proposed restaurant at 900 Milwaukee Avenue, Lincolnshire Commons Center, as shown on the attached location map.
- Marigold intends to lease a 3,533-square-foot space previously occupied by Go Roma restaurant in the 12,000-square foot multi-tenant commercial retail building constructed in 2006.
- In March 2005, the Village Board granted formal approval of building elevations and subsequently approved the designation of the Lincolnshire Commons as an Area of Special Sign Control governed by Tenant Signage Criteria (see attached). The Criteria allow for both sign uniformity and flexibility in accommodating the identification needs of individual tenants.
- The ARB has final authority to review and approve this request.

Proposal:

Building Revisions:

- The petitioner proposes a new 321-square-foot patio along the south building elevation, adjacent to the courtyard. The new patio will supplement an existing 270-square-foot patio along the east (front) building elevation.
- The attached renderings indicate the proposed patio will match the existing patio in design, creating a unified outdoor experience. The new patio will contain tables and chairs. No umbrellas are proposed.
- In addition, the petitioner proposes to revise the south and east storefronts to create new access doors into the patios. The doors will match existing design.

Wall Signs:

- The petitioner proposes two new identification wall signs on the east and south elevation (see attached renderings), meeting the Tenant Signage Criteria, as shown below:

Item	Proposed East Sign	Proposed South Sign	Lincolnshire Commons Tenant Signage Criteria
Max sign length	10.5'	6.5'	16'
Max letter height for multi-row signs	1'	1'	1'
Max overall sign height	2.7'	2.3'	N/A
Max logo height	0.75'	N/A	1.5'
Overall sign area	28 sq.ft.	15 sq.ft.	35 sq.ft.
Illumination	Internal	Internal	Internal

Recommendation:
Review and approval of the proposed outdoor patio, storefront design revisions and wall signs.

Motion:
The Architectural Review Board, at its meeting held on October 18, 2016, moves to approve a new outdoor patio along the south building elevation, storefront access doors and wall signs for Marigold Maison Indian Cuisine restaurant, located at 900 Milwaukee Avenue, as depicted in a presentation packet prepared by Aria Group Architects, dated October 6, 2016, and as depicted in the material/color sample board provided at the meeting, subject to the Staff recommendations and further subject to…

{Insert any additional conditions or modification desired by the ARB}

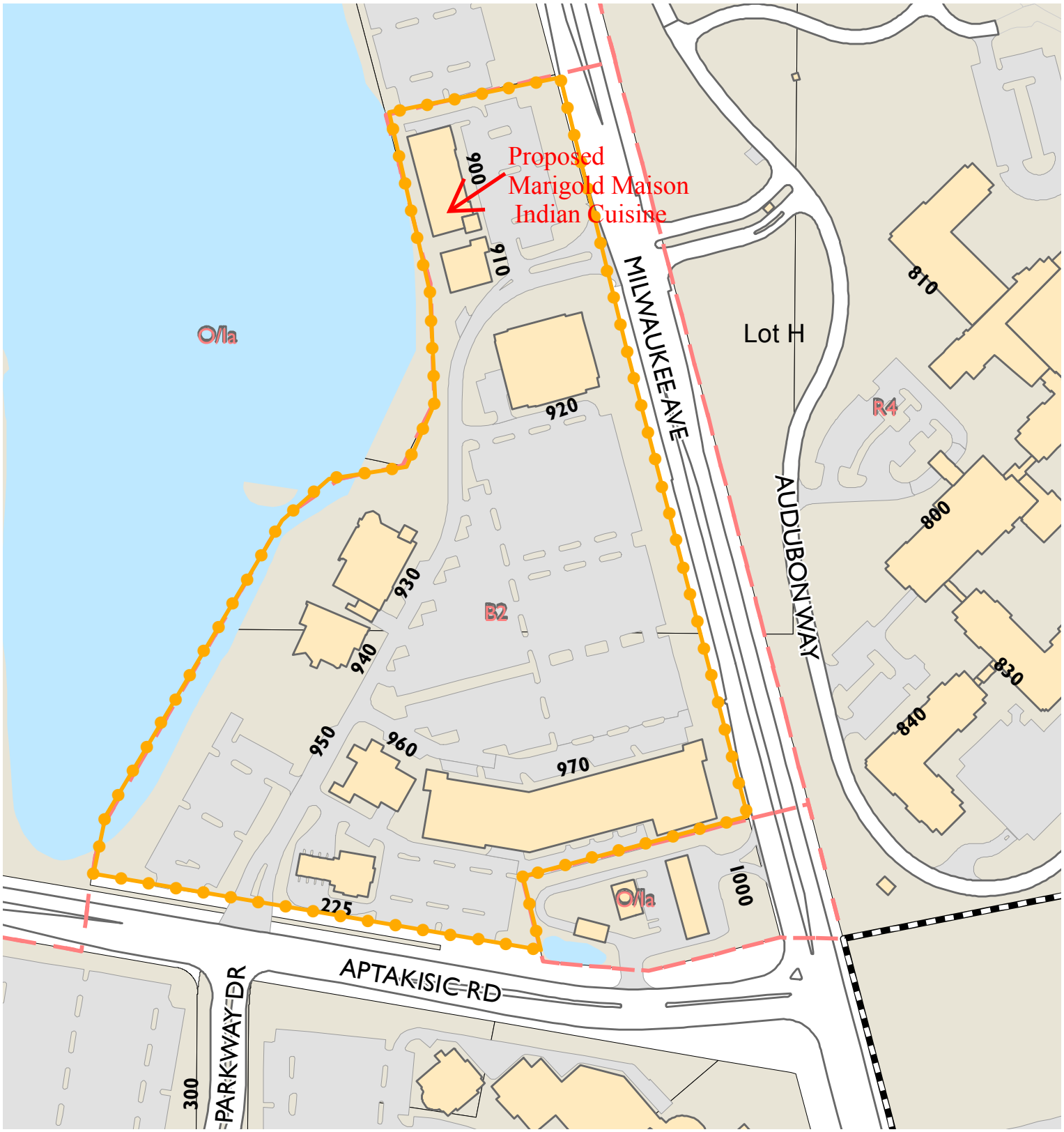
Reports and Documents Attached:
- Location map, prepared by MGP GIS Consortium.
- Presentation Packet, prepared by Aria Group Architects, dated October 6, 2016.
- Lincolnshire Commons Tenant Signage Criteria.

Meeting History	
ARB (current):	October 18, 2016

Village of Lincolnshire
Community & Economic Development

LOCATION MAP

900 Milwaukee Ave



Village Boundary
Zoning Districts
Building
Parcel
Lincolnshire Commons Center

0 100 200 400 Feet

GIS consortium

Aria Group
Architects, Inc.

9/30/16
Regarding: Marigold Maison Indian Cuisine
Lincolnshire Architectural Review Board

To Wes Grover, Architectural Review Chairman and ARB Members,

The proposed Marigold Maison Indian Cuisine restaurant is a full service restaurant concept that currently exists in Bannockburn, IL and is proposing to move into the existing Go Roma location at 900 Milwaukee Ave E.

The proposed changes for your review include two new signs, one on the east façade and one on the south façade. Both new signs comply with the standards set forth in the Lincolnshire Commons Signage Package as you will see.

The proposed changes also include the addition of an exterior patio space on the south side of the building as shown. With this addition we request the modification of a section of the southern storefront for a new access door. The new door will match the existing storefront in finish and style.

Finally we propose to modify the section of storefront on the eastern façade at the existing patio to install a new operable door to open the restaurant up to the exterior patio. All new sections of this operable storefront will be finished to match the existing storefront.

If you have any questions or concerns please feel free to reach out to us.

Respectfully,

Ryan Peterson, AIA
Aria Group Architects, Inc.

ARCHITECTURE • PLANNING • INTERIOR DESIGN

830 North Boulevard
Oak Park, Illinois
60301
708.445.8400
Fax 708.445.1788
www.ariainc.com

marigoldmaison
indian cuisine

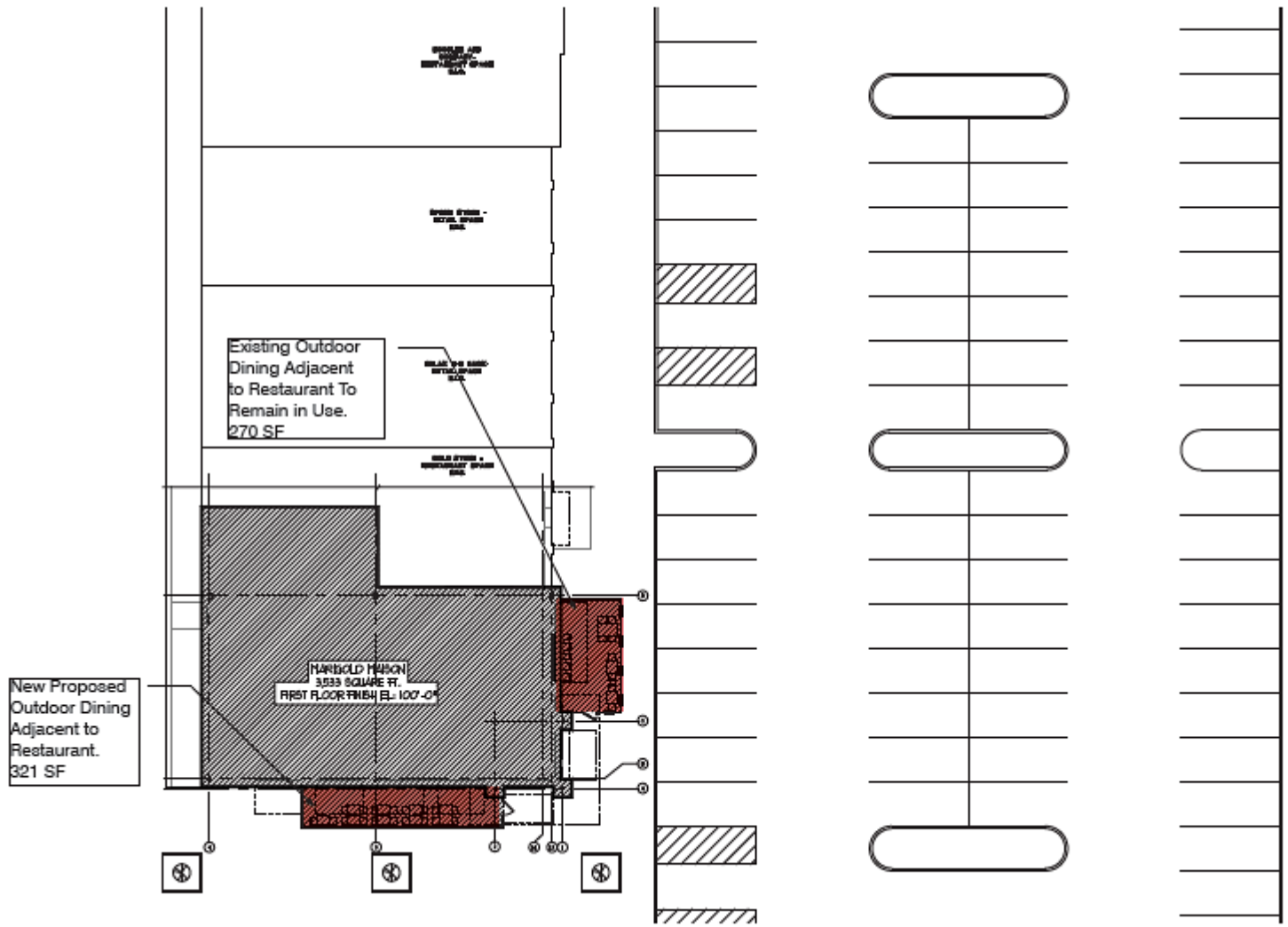
Lincolnshire, IL

ARCHITECTURAL REVIEW BOARD PACKAGE

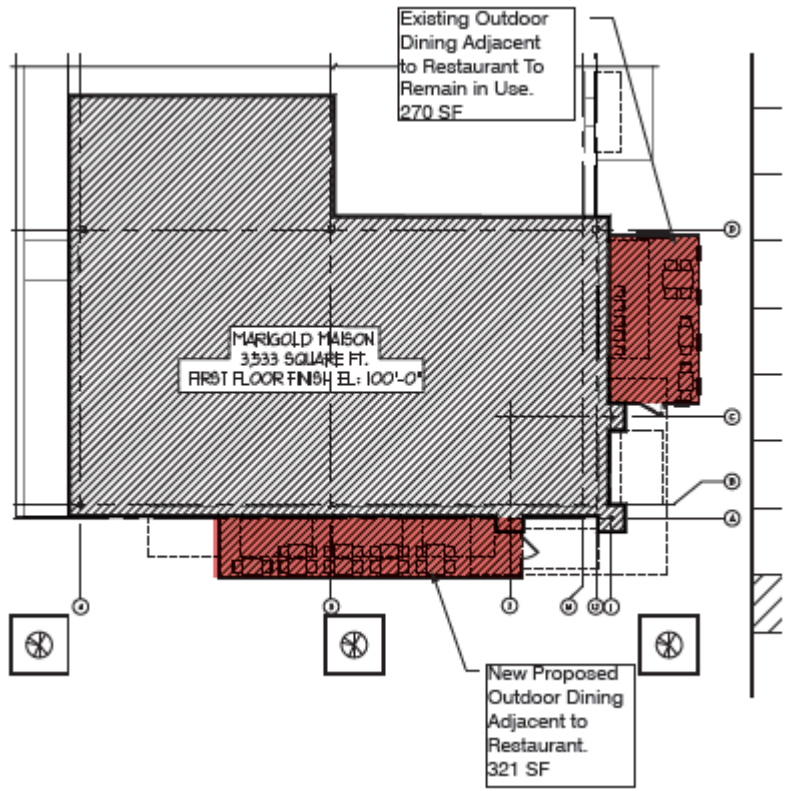
10/18/2016 7 P.M.

Aria Group Architects, Inc.
ARCHITECTURE • PLANNING • INTERIOR DESIGN

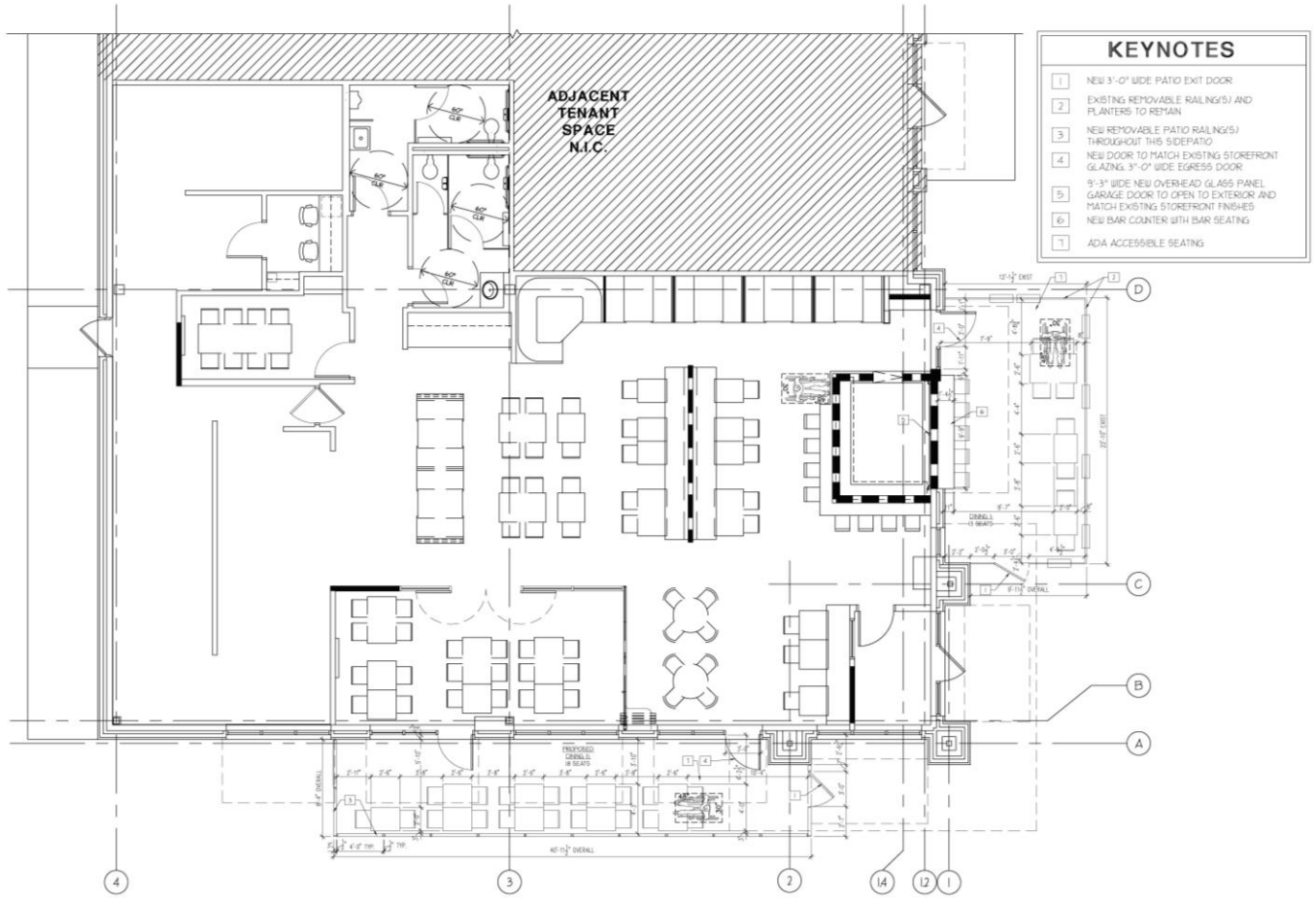
OVERALL SITE
SCALE: 3/32" = 1'-0"



SITE PLAN & KEY PLAN
SCALE: 1/8" = 1'-0"



PATIO PLAN
SCALE: 1/8” = 1’-0”



FLOOR PLAN
SCALE: 3/32" = 1'-0"

KEYNOTES

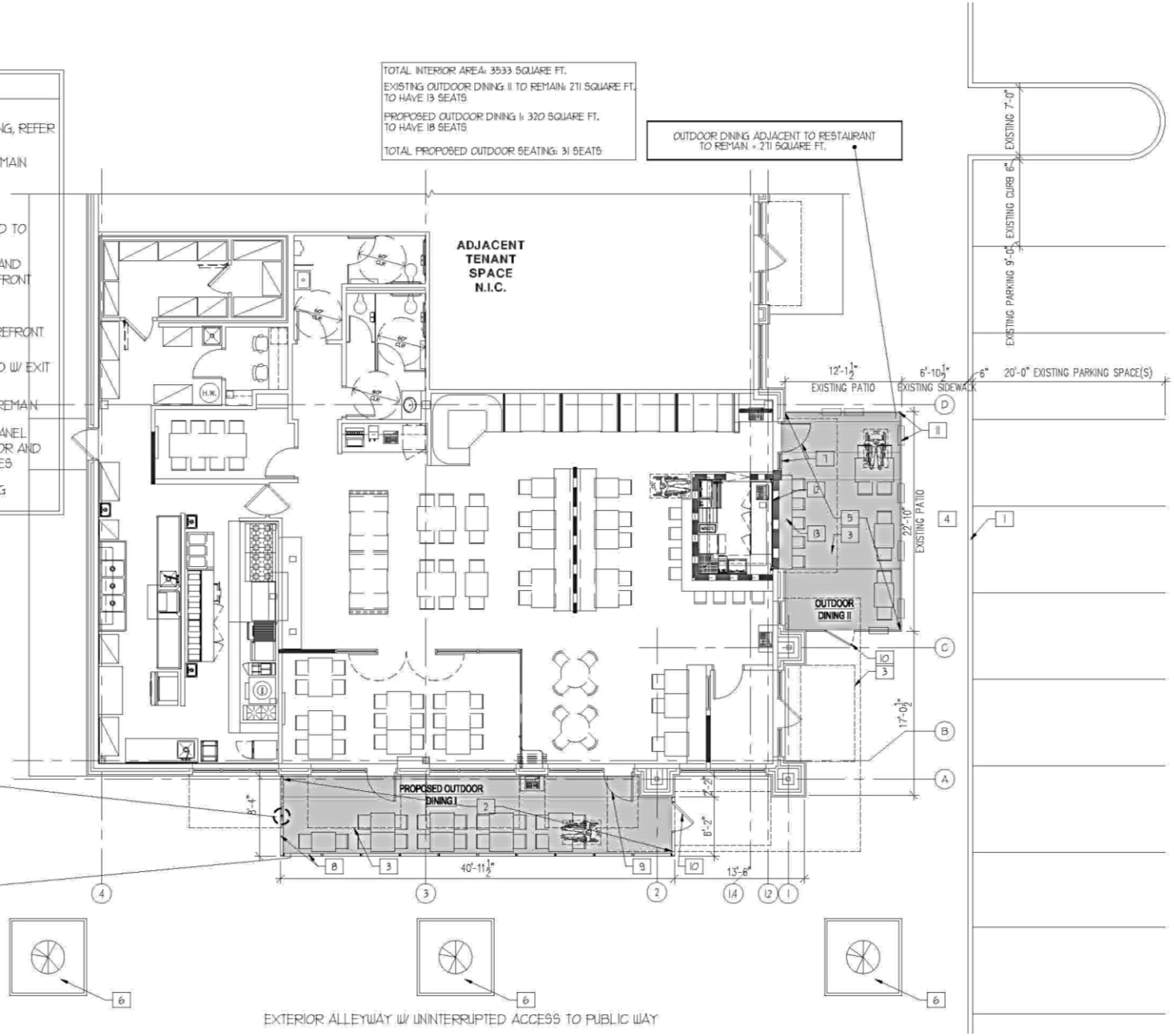
1. EXISTING CURB
2. AREA OF PROPOSED OUTDOOR DINING, REFER TO PLAN FOR SCOPE OF WORK
3. OUTLINE OF EXISTING AWNINGS TO REMAIN
4. EXISTING CONCRETE WALK
5. EXISTING PATIO AREA TO REMAIN
6. EXISTING TREE AND LANDSCAPE BED TO REMAIN
7. 3'-0" WIDE NEW STOREFRONT DOOR AND GLAZING TO MATCH EXISTING STOREFRONT
8. NEW REMOVABLE PATIO RAILING(S) THROUGHOUT THIS SIDE PATIO
9. NEW DOOR TO MATCH EXISTING STOREFRONT GLAZING. 3'-0" WIDE EGRESS DOOR
10. 3'-0" WIDE LATCHING GATE EQUIPPED W/ EXIT DOOR PANIC BAR
11. EXISTING REMOVABLE RAILINGS TO REMAIN
12. 9'-3" WIDE NEW OVERHEAD GLASS PANEL GARAGE DOOR TO OPEN TO EXTERIOR AND MATCH EXISTING STOREFRONT FINISHES
13. NEW BAR COUNTER WITH BAR SEATING

TOTAL INTERIOR AREA: 3533 SQUARE FT.
EXISTING OUTDOOR DINING II TO REMAIN: 211 SQUARE FT. TO HAVE 13 SEATS
PROPOSED OUTDOOR DINING I: 320 SQUARE FT. TO HAVE 18 SEATS
TOTAL PROPOSED OUTDOOR SEATING: 31 SEATS

OUTDOOR DINING ADJACENT TO RESTAURANT TO REMAIN = 211 SQUARE FT.

1"X3" RECTANGULAR STEEL POWDER COATED TO PROTECT AND PROVIDE SAFETY TO PATRONS. DROP IN PLACE READY TYPE RAILING WITH 1"X1" BASE PLATE, 32" HIGH ABOVE EXISTING CONCRETE GRADE

PROPOSED OUTDOOR DINING ADJACENT TO RESTAURANT = 320 SQUARE FT.



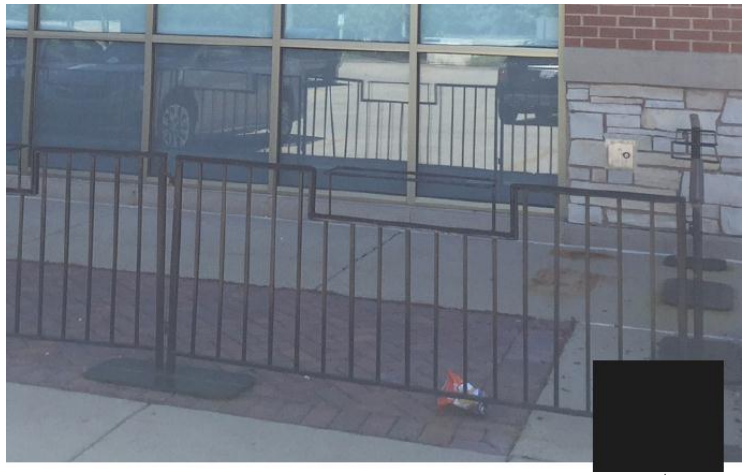
EXISTING CONDITIONS
NOT TO SCALE

Existing Southeast Facade

Existing East Façade & Existing Outdoor Dining

Existing South Façade & Proposed Outdoor Dining

PRODUCT SPECIFICATIONS
NOT TO SCALE



Existing Lincolnshire railing to be reused and refinished with RAL 9017 Verkrsschwarz powdercoat.

New railing to be finished with RAL 9017 Verkrsschwarz powdercoat.

Patio Tables & Chairs.
Existing from Bannockburn location to be re-used.

New ADA Patio Table.
MFR: GAR Products
Size: 30”x48”
Quantity: 2
Finish: Synthetic teak & black aluminum frame

EXTERIOR EAST RENDERING
SCALE: 3/16" = 1'-0"

Patio tables and chairs

Outdoor barstool

Exterior Bar Die Tile

Sign #2: New Signage to be similar to existing at another store location. Signage shall comply with current Lincolnshire Commons Signage Package approved by the Village of Lincolnshire.

Existing Patio Railing

Note: All finishes to remain existing as is unless noted otherwise.

EXTERIOR SOUTH RENDERING
SCALE: 3/16" = 1'-0"

Patio tables and chairs

New Patio Railing

Yellow: Sherwin Williams
Crispy Gold SW 6699

Green: Sherwin Williams:
Evergreens SW 6447

New patio railing

New patio tables
and chairs

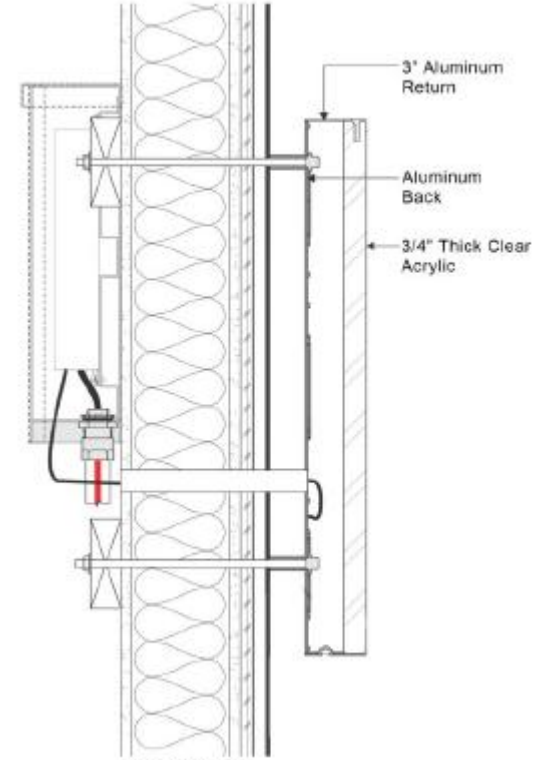
Modified existing storefront fro
new layout. Finish to match
existing.

Sign #1: Will comply with
current Lincolnshire Commons
Signage Package Approved
by the Village of Lincolnshire

Proposed modifications

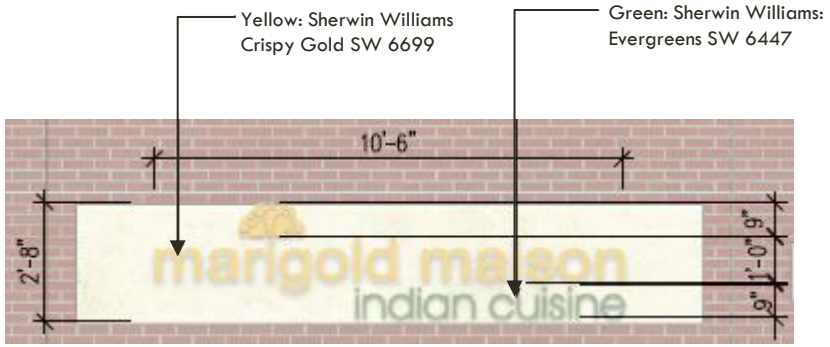
Note: All finishes to
remain existing as is
unless noted otherwise.

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



Sign Detail - N.T.S.

Sign #1: Internally illuminated signage with acrylic face by sign vendor. Approximately 15 SF.



Sign #2: Internally illuminated signage with acrylic face by sign vendor. Approximately 28 SF.

1 Signage Criteria

1.1 Sign Types

Monument Signs:

(1) primary development identification sign centrally located along Milwaukee Avenue and (2) secondary development identification signs located at the vehicular entrances off Aptakisic Road and Milwaukee Avenue. See Figures 1 and 2.

Multi-Tenant Sign: None

Site Way-Finding Signs: None

Individual Tenant Signs:

All signage shall conform to the Village of Lincolnshire Sign Control; however, since this development is designated as an "Area of Special Sign Control", the Landlord and the Village may review well-designed signage –compatible with its surroundings—that is otherwise non-conforming for special approval. All signs shall be installed only after all required permits and Landlord approvals are issued.

Each tenant shall be permitted up to two wall signs, not more than one on each business façade, with the ability to provide one additional wall sign on a third façade subject to review and approval of the Village Architectural Review Board –based on consideration of building placement, entrance location, architectural elements, etc. Primary and secondary signs should consist of the same construction details and materials. The area of such sign shall not exceed 10% of the total area of tenant façade to which it is attached. In addition, these signs may not extend above the wall to which it is attached.

Free-standing restaurant tenants shall be limited to 24' maximum sign length, to a maximum 100 square feet area per sign. Maximum letter size shall be 24" in height with the ability to increase initial upper case letters and certain lower case letters (b, d, f, g, h, etc.) to 32". Multiple row signs shall be limited to 14" high letters, with the ability to increase initial upper case letters and certain lower case letters (b, d, f, g, h, etc.) to 18". Company logos are also limited to 24" in height and are subject to the same restrictions as the letters in the sign text. There is no restriction on the style of typeface used.

Individual Tenant Signs (cont.):

Retail tenants under 10,000sf shall be limited to 16' maximum sign length, to a maximum of 35 square feet area per sign. Maximum letter size shall be 18" in height with the ability to increase initial upper case letters and certain lower case letters (b, d, f, g, h, etc.) to 24". Multiple row signs shall be limited to 12" high letters. Company logos are also limited to 18" in height and are subject to the same restrictions as the letters in the sign text. There is no restriction on the style of typeface used.

Retail tenants over 10,000sf shall be limited to 24' maximum sign length, to a maximum 96 square feet area for primary and secondary building façade wall signs. In addition, these tenants shall be permitted a company logo sign limited to 48" maximum height not to exceed 20 square feet in area. Maximum letter size shall be 48" in height provided that their lowest extent is located a minimum of 12'-0" above grade. Multiple row signs shall be limited to 30" high letters. Company logos are also limited to 48" in height and are subject to the same restrictions as the letters in the sign text. There is no restriction on the style of typeface used.

The sign content shall be limited to the name of the business, or D.B.A. as defined in the lease, and company logo; products, services, and company catch phrases shall not be allowed. These signs shall consist of individual letters located within a sign band –a flush, recessed, or projecting rectangular boundary meant to frame the sign and position it logically within the building façade, see figure 3. This sign band should provide material and/or color contrast with the sign letters, but not necessarily the adjacent façade surfaces. Letters should be centered and aligned within the sign band, see Figure 3.

Signs of up to 2 square feet, constructed as a metal plaque type sign, may be wall mounted adjacent to the doors at the rear of the building, and may display only the name and address of the occupant.

Signage Not Allowed:

- Marquee Signs
- Electronic Message Boards
- Signs painted directly upon the wall surface of the building.
- Box type signs
- Exposed tube neon signs and open face channel letters with exposed tube neon.
- Free-standing, moving, rotating, flashing, animated, or noise-making signs.
- Cloth, paper, cardboard, sintra, and other similar stickers or decals on or around the storefront surfaces.
- Signs that are not professional in appearance.

Other types of signs not listed:
Subject to review and approval by the Landlord and the Village.

1.2 Locations

Wall signs shall be mounted on the building façade or above the store entry. No signage shall be less than 8'-0" above an adjacent sidewalk, nor shall project over said sidewalk. No signage shall be less than 15'-0" above an adjacent drive or service lanes or parking surfaces, nor shall project over said areas.

1.3 Construction

All signage is to be of the highest quality construction. Shop fabrication and painting is required. All attachments, labels, fasteners, mounting brackets, wiring, clips, transformers, disconnects, lamps, and other mechanisms that are part of the sign product must be concealed from view. Signs must be fabricated and installed according to local and national building and electrical codes, and must bear UL label.
Signage shall project not more than 12" from the wall to which it is attached.

1.4 Illumination

Wall signs may be internally illuminated or illuminated by RLM or "gooseneck" type fixtures.
Exposed wiring, electrical connection, conduits, and raceway are not permitted.
Signs shall be clock-timer controlled and illuminated during Lincolnshire Commons hours.
All electrical penetrations through the storefront fascia for sign installation shall use PK housing or approved equal.
Design shall provide access to transformer and local disconnect.

5 Color

Multiple colors are permitted for letters and logos to allow signage to remain consistent with tenants' established corporate logo and brand identity. Channel letters with a translucent acrylic face may be of any color, and shall have black returns. Reverse channel letters may be painted on either the front or side face, with the second face painted black. Signs, if painted, shall be primed and painted with Matthews Acrylic Polyurethane or equal.

Village of Lincolnshire

Agenda Item
3.3 ARB

REQUEST FOR BOARD ACTION
Architectural Review Board
October 18, 2016

Subject:	City Park Ground Sign Replacement, 235 Parkway Dr
Action Requested:	Approval of a replacement City Park/Wildfire/Big Bowl/Regal Cinema Ground Sign Along Milwaukee Avenue.
Petitioner:	Lettuce Entertain You Enterprises
Originated By/Contact:	Adam M. Letendre, Assistant Village Manager/CED Director Department of Community & Economic Development
Advisory Board Review:	Architectural Review Board

Background:

- The existing ground sign at City Park on the Milwaukeee Avenue frontage was installed between 1999 and 2000. As part of the start of redevelopment for the City Park/404 Social project, Lettuce Entertain You is requesting replacement of the existing ground sign.
- City Park is zoned B2 and is governed by a Planned Unit Development (PUD) with an Area of Special Sign Control.
- There are four existing multi-tenant ground identification signs within the development along Milwaukee Avenue and Aptakisic Road (see attached photographs).
- The ARB has final authority to review and approve this sign replacement request as a minor amendment to the PUD.

Proposal (See attached cover letter and packet):

a) Replacement Sign Details: The petitioner proposes to replace the existing multi-tenant ground sign on the southeast corner of City Park along Milwaukee Avenue, generally located at 235 Parkway Drive. The existing sign is outdated and a fresh look is desired to more closely match the newer monument signs within the development. Staff supports this request, however it was requested that the "City Park at Lincolnshire" top panel be incorporated into a brick design that sits at the top, but the petitioner has chosen to keep the proposed design. While not as contemporary as staff may want, the design meets Village Code and PUD requirements. If approved, this new sign will establish the character for future ground signs in the development.

b) Size and Style: The plan calls for a reduction to the overall size of the current sign, from a current height of 21'6" down to 15' and maintenance of the current 17'4" width. The materials as proposed will be brick to match the existing developments and the tenant panels within the sign will be within 2" of each other based on business logo needs. The tenant panels will be lit from the inside with lighting emitting acrylic graphics. Staff supports this request. The proposed sign dimensions are consistent with recent ground sign approvals for the Village Green, Lincolnshire Commons and Lincolnshire Marketplace (see attached multi-tenant ground sign comparison).

c) Landscaping: The petitioner has confirmed that landscaping exceeds that required by code found in Chapter 2, Title 13. It also meets requirements in the PUD. No landscaping changes are proposed with this request.

Village of Lincolnshire

Agenda Item
3.3 ARB

Recommendation:
Review and approval of the proposed sign replacement.

Motion:
The Architectural Review Board, at its meeting held on October 18, 2016, moves to approve a replacement ground sign at 235 Parkway Drive, as depicted in a presentation packet prepared by Aria Group Architects, date stamp received October 10, 2016, and as depicted in the material/color sample board provided at the meeting, subject to recommendations contained in the Staff Memorandum, and further subject to…

{Insert any additional conditions or modification desired by the ARB}

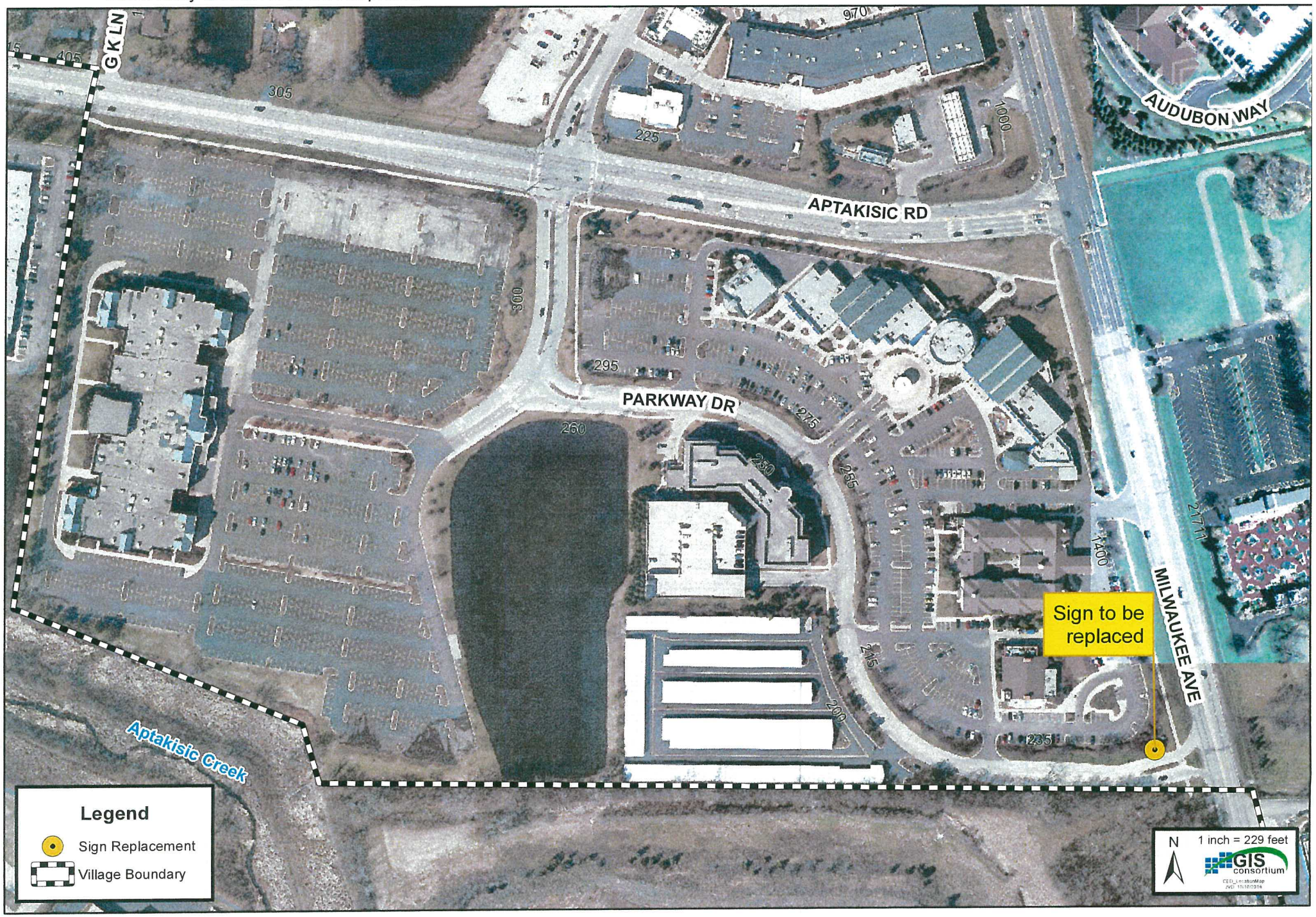
Reports and Documents Attached:
- Location Map, prepared by MGP Consortium.
- Presentation Packet with cover letter, prepared by Aria Group Architects, dated October 7, 2016, date stamped received October 10, 2016.
- Photographs of existing CityPark ground signs.
- Multi-tenant ground sign comparison.

Meeting History	
ARB (current):	October 18, 2016

V:\Subdivisions\ECD\Signage\Wildfire_BigBowl_Regal_GroundSign\City Park Signage 10-18-16 ARB.docx

Village of Lincolnshire
Community & Economic Development

City Park
235 Parkway Dr



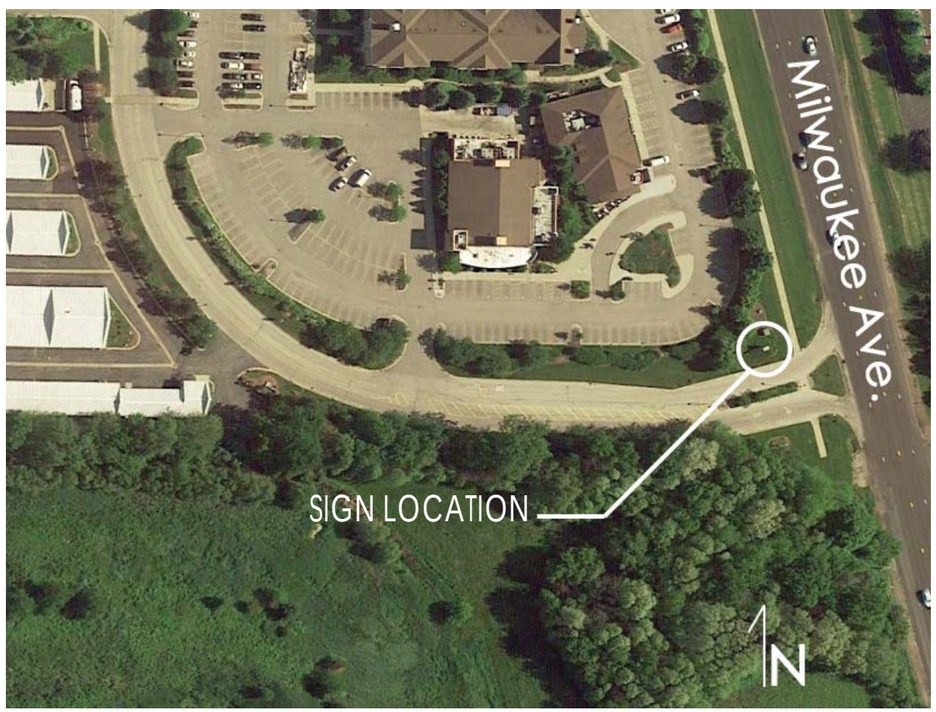
CityPark at Lincolnshire

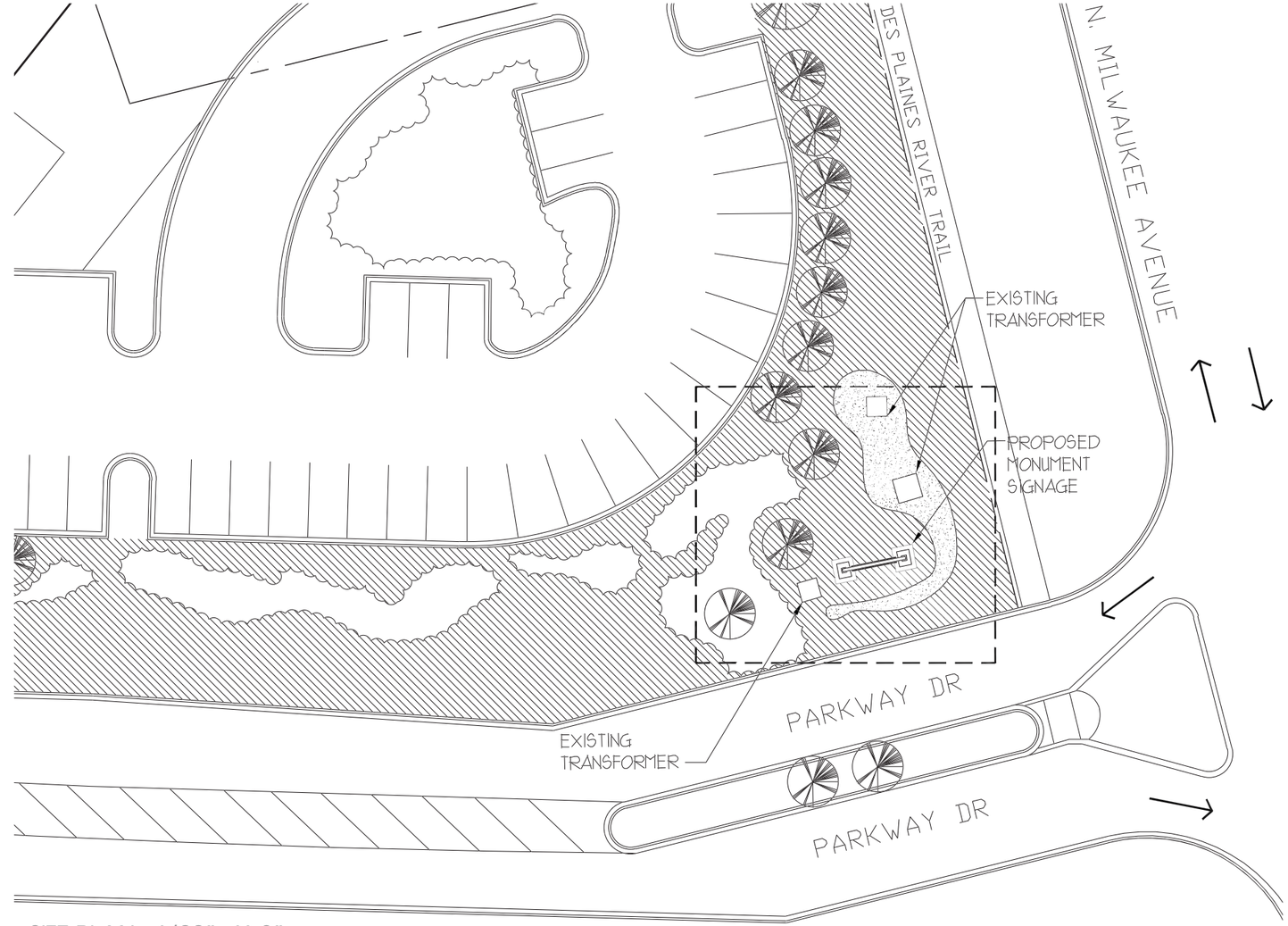
Modified Monument Sign

10-18-16

Aria Group Architects, Inc.
ARCHITECTURE • PLANNING • INTERIOR DESIGN

ECD COMPANY
Innovation in Real Estate





SITE PLAN : 1/32"=1'-0"

LANDSCAPE REQUIREMENTS

Required landscaping : 920 SF
(2s.f. per 1s.f. of Monument)

Actual landscaping : 4305 SF

LANDSCAPE LEGEND

- Shade tree
- Shrub
- Ornamental grass
- Perennials
- Property line

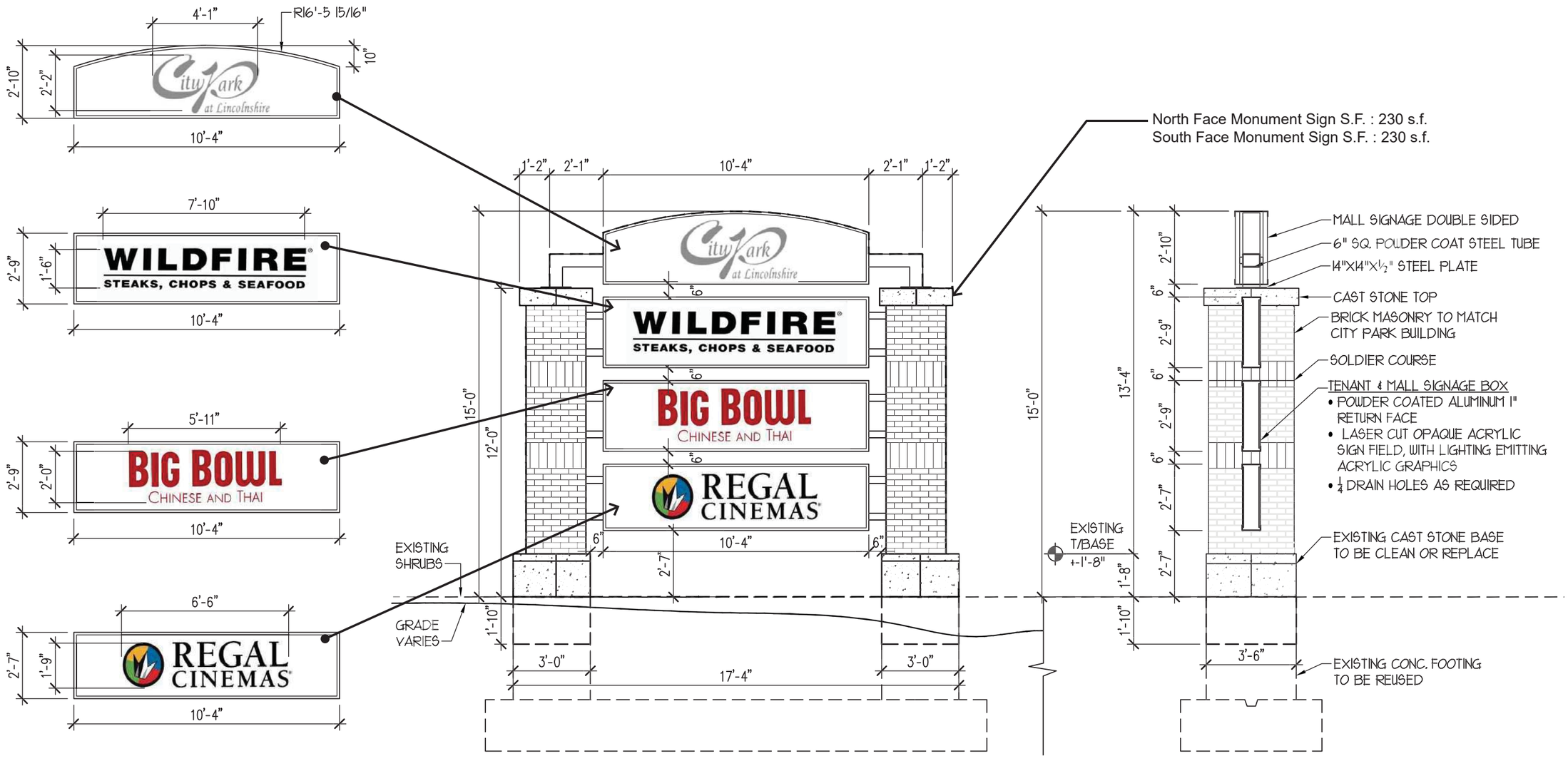
N

CITY PARK MONUMENT SIGN - LOCATION

City Park at Lincolnshire

10/18/16

ARIA GROUP ARCHITECTS, INC.



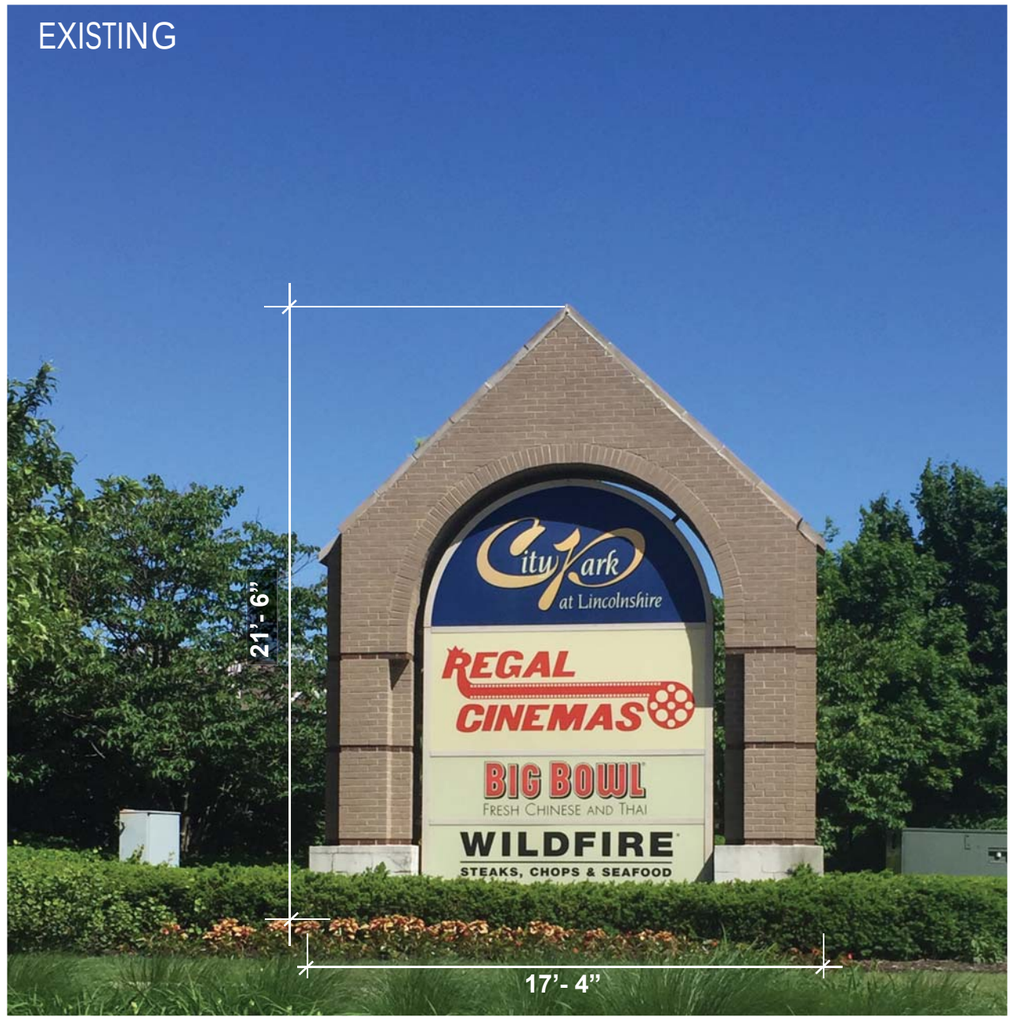
SCALE: 1/4"=1'-0"

CITY PARK MONUMENT SIGN - PROPOSED

City Park at Lincolnshire

10/18/16

ARIA GROUP ARCHITECTS, INC.


EXISTING
21'- 6"
17'- 4"
City Park
at Lincolnshire
REGAL
CINEMAS
BIG BOWL
FRESH CHINESE AND THAI
WILDFIRE
STEAKS, CHOPS & SEAFOOD

PROPOSED
City Park
at Lincolnshire
WILDFIRE
STEAKS, CHOPS & SEAFOOD
BIG BOWL
CHINESE AND THAI
REGAL
CINEMAS

PROPOSED - NIGHT VIEW
City Park
at Lincolnshire
WILDFIRE
STEAKS, CHOPS & SEAFOOD
BIG BOWL
CHINESE AND THAI
REGAL
CINEMAS

Existing City Park Sign along Milwaukee Avenue

Existing City Park sign at Milwaukee and Aptakisic

Existing City Park sign along Aptakisic

Multi-Tenant Retail Centers - Ground Sign Comparison

Ground Sign	Height	Width	Number of Tenant Panels
Proposed Wildfire, Big Bowl & Regal ground sign – Milwaukee Ave	**15’**	**17’4”**	**3**
Existing Wildfire, Big Bowl & Regal ground sign – Milwaukee Ave	20’5”	17’4”	3
Proposed Lincolnshire Marketplace – Milwaukee Ave & Rte 22 (2 signs)	20’	12’	5
Approved Lincolnshire Commons – Milwaukee Ave south (Sign A)	21’-10”	17’	8
Approved Lincolnshire Commons – Milwaukee Ave north (Sign B1)	15’-10”	17’	6
Approved Lincolnshire Commons – Aptakisic Rd (Sign B2)	15’-10”	17’	6
Existing Lincolnshire Commons – Milwaukee Ave south	11’-2”	16’	N/A
Existing Lincolnshire Commons – Milwaukee Ave north	6’-5”	20’	N/A
Existing Lincolnshire Commons – Aptakisic Rd	6’-5”	20’	N/A
CityPark – Milwaukee Ave north (digital)	34’	16’	3 (4 approved) + LED screen
CityPark – Milwaukee Ave south	24’	12’	12 (8 approved)*
CityPark – Aptakisic Rd	24’	12’	9 (8 approved)*
Village Green – Milwaukee Ave	20’	11’4”	6 (8 approved)**
Village Green – Olde Half Day Rd	18’-6”	11’4”	6 (8 approved)**
Village Green – Olde Half Day Rd	8’-3”	10’8”	2 (4 approved)**
Vernon Hills Town Center – Rte 45	8’	10’	5
Vernon Hills Town Center – Milwaukee Ave	8’	10’	5

Note:
*CityPark ground signs were subdivided into multiple tenant panels without Village approval.
** Village Green owners received approvals for additional ground sign panels on all 3 signs but have deferred their installation pending additional leases.