Planning Commission
CITY HALL COUNCIL CHAMBERS
AGENDA OF JUNE 10, 2025
7:00 PM

ROLL CALL

PLEDGE OF ALLEGIANCE

APPROVAL OF MINUTES

Regular meeting of May 13, 2025

CORRESPONDENCE

Administrative Approvals & Zoning Certificates

1. PPZ2025-0352 Center Ridge Dental, 33650 Center Ridge Rd
   Approval of a Certificate of Zoning Compliance for a dental office.

2. PPZ2025-0353 Tavo's Tacos, 33137 Center Ridge Rd
   Approval of a Certificate of Zoning Compliance for a restaurant.

OLD BUSINESS

1. Master Tree Plan

NEW BUSINESS

1. PPZ2025-0354: Harvest Ridge Church, 35544 & 35600 Lorain Rd, PPN: 07-00-024-101-101, -109
   Owner: Michael Moyes, Dobie Pallets, 35544 Lorain Rd, North Ridgeville, OH 44039. Proposal consists of rezoning parcel number 07-00-024-101-101 located at 35544 Lorain Road that is currently zoned I-2 Light Industrial District, and the eastern portion of parcel number 07-00-024-101-109 located at 35600 Lorain Rd that is currently zoned I-2 Industrial District be rezoned to R-1 Residence District.

2. PPZ2025-0357: North Ridgeville High School, Phase 2, 34610 Bainbridge Rd, PPN 07-00-016-104-233
   Applicant: Claire Bank, ThenDesign Architecture, 4230 River St, Willoughby, OH 44094. Owner: North Ridgeville City Schools, 34260 Bainbridge Rd, North Ridgeville, OH 44039. Proposal consists of constructing a new high school and

demolition of old high school. Property zoned R-1 Residence District.

ADJOURNMENT

NORTH RIDGEVILLE PLANNING COMMISSION
MINUTES OF REGULAR MEETING
TUESDAY, MAY 13, 2025

CALL TO ORDER

Chairman Smolik called the Planning Commission meeting to order with the Pledge of Allegiance at 7:00 PM.

ROLL CALL

Present were members Frank Toth, Steve Ali, Council Liaison Bruce Abens, Vice-Chairman Paul Schumann, and Chairman James Smolik.

Also present were Assistant Law Director Toni Morgan, City Engineer Christina Eavenson, Planning and Development Director Kimberly Lieber, City Arborist Ryan Thomas, and Assistant Clerk of Council Fijabi Gallam.

MINUTES

Chairman Smolik asked if the members had a chance to review the minutes of the regular meeting on April 8, 2025. He asked if there were any corrections. Hearing none, the minutes were approved as submitted.

CORRESPONDENCE

Administrative Approvals

Master Tree Plan

Director Lieber discussed the Master Tree Plan, stating that City Council had recently adopted amendments to Chapter 1030 of the codified ordinances regarding trees. She noted that a previous chapter, titled "Master Tree Plan", had become outdated, with some provisions dating back to the 1960's. While some updates were made, the chapter had not been adequately overseen. She explained that certain tree species were specifically categorized as either permitted or prohibited. Still, the City had not kept up with the rise of certain invasive species and the best landscaping and arborist practices. Therefore, a rewrite of the tree regulations was undertaken, addressing both public and private trees. A no-fee permit process was created for individuals wishing to plant or remove trees in the public right of way. These new regulations will take effect on May 27, 2025, after Memorial Day. She stated that the new process also guided property owners concerning tree maintenance and clarified the responsibilities of private property owners for the upkeep of their trees and would allow the City to address dangerous trees that threaten public health or safety. A draft Master Tree Plan was created by City staff in various departments and Arborist Ryan Thomas, drawing on the codified ordinance, to compile best practices in one place that would be easy to manage and update without requiring ordinance amendments. She explained that the document would be adopted by the Planning Commission and maintained by the City Arborist, who would ensure that it remained up to date and could add updated guiding documents, relevant attachments, and park plans for the city parks, effectively creating a comprehensive reference for trees within the City. She asked that Planning Commission reviewed the Master Tree Plan and discussed that the goal was ultimately to adopt the Master Tree Plan during that meeting or a future one, which would serve as the primary resource for tree maintenance, planting, and forestry in the City of North Ridgeville.

City Arborist Thomas reiterated the basis of the Master Tree Plan, emphasizing that it would serve as a tool to implement best management practices among landscapers hired by developers, communities, and the City's own Public Works Department. The goal was to see the overall tree canopy of the city grow rather than decline, especially since they are starting from a low number. He mentioned that the initiatives that Director Lieber explained could eventually lead to Tree City USA recognition. The subsequent steps are already in progress, and there are plans to apply for recognition this year. He stated that the Arbor Day celebration was held on April 25, 21025, during which a sugar maple tree was planted at Shady Park.

Chairman Smolik then inquired if any members of the Commission had questions or comments regarding the Master Tree Plan. After receiving no immediate responses, it was suggested that the Commission would likely table the discussion for action at the next meeting.

Director Lieber noted the following administrative approvals:

1. **PPZ2025-0348 The Dog Wizard Westlake, 34960 Center Ridge Rd.**
   Administrative Approval of a Certificate of Zoning Compliance for dog training and day care.

2. **PPZ2025-0349 Halo Smoke, 33117 Center Ridge Rd.**
   Administrative Approval of a Certificate of Zoning Compliance for a smoke shop.

3. **PPZ2025-0350 Hennessey Lawn & Landscape LLC, 36466 Sugar Ridge Rd.**
   Administrative Approval of a Certificate of Zoning Compliance for landscaping contractor.

OLD BUSINESS

PZ2025-0337: Victory Park, 7777 Victory Lane, PPN 07-00-003-102-106
Owner: PMJ Park Holdings, 7777 Victory Lane, North Ridgeville, OH 44039. Proposal consists of lighting plan for sports park. Property is zoned I-2 Light Industrial District.

Application was read.

Chairman Smolik asked Director Lieber for findings of fact.

Director Lieber explained that there were concerns about the approved installation of two turf fields at Victory Park that occurred earlier this year. It was noted that there was insufficient detail regarding the proposed lighting package at that time, leading to the lighting being separated from the overall approval of the field improvements. Director Lieber explained that the Planning Commission held unique authority to approve lighting plans that may deviate from code requirements. The regulations indicated that due to the unique requirements for providing greater nighttime visibility, the need to ensure public safety, and limited operation hours for certain facilities, including stadiums with ball diamonds, playing fields, tennis courts, amphitheaters, and similar uses were exempted from the exterior lighting standard. It was emphasized that lighting standards for these types of installations must be established at the time that the lighting request is made and shall be subject to Planning Commission approval. It was clarified that the proposal did not need to be reviewed by the Building and Zoning Board of Appeals, but the Planning Commission would review the lighting plan. Noted as follows:

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- There were 12 new pole lights proposed. Ten were surrounding the proposed fields at 80 feet high, and two are 70 feet high.
- The pole height, fixture type, and illumination levels exceeded code requirements.
- The following were some questions from the Administration for the applicant, which they have addressed in their submittals, and also had a presentation for review.
    1. The extent of light trespass off the property.
    2. The setbacks of the proposed light poles from all the different property lines.
    3. Evidence regarding the need for the extent and intensity of the lighting, as well as the height of the poles provided, and whether any industry standards were at play there.
    4. Whether the proposed system might differ from previous lighting systems and how it would be controlled.
    5. Whether the glare or the lighting would have a negative impact on the public road system, potentially causing glare issues for drivers or any other adverse effects on surrounding businesses.
    6. What were their light control measures to ensure that they did not create any hazards for the surrounding property.

City Engineer Christina Eavenson questioned the pole configurations and wanted to confirm whether the existing light poles located between the existing fields and the new poles would be shared, and if so, how many new heads would be added to those existing poles. She noticed there were already 8 to 10 heads facing the existing two fields and stated that clarification on the total number of heads on each pole would be appreciated. She stated that the proposed new lighting fixtures differ from the existing fixtures currently in use and asked for more details on the shielding capabilities of the new fixtures, specifically regarding the potential for future issues with light spill or glare and commented that if such issues arose, additional shielding would be required for the new structures. She said that at the last Planning Commission meeting the total additive footprint for the foot candles was discussed, however, it seemed that the current proposal only accounted for the new fixtures and asked for clarification on how the existing fixtures would be integrated into the overall lighting plan, especially considering their dome-style design, which appeared to lack shielding and raised concerns about the foot-candle measurements.

Assistant Law Director Toni Morgan had no legal issues or questions from the law department.

Chairman Smolik asked if there was a representative for the application.

Joe Borkey, PMJ Park Holdings, 9091 Hilo Farm Dr, Mentor, OH 44060.

Mr. Borkey provided clarification on the project and answered questions as follows:
No fixtures were being added to the old poles. Some would be rear-mounted fixtures to help with the old fields, as they did not sufficiently meet the lighting standards for baseball and softball currently. The fields were originally designed for soccer only, not for baseball and softball. When the turf was installed, the fields were extended, therefore, the corners had dark spots compared to the 30-foot candles that were originally present. That resulted in approximately 10-foot candles on either side and was below the industry standards for baseball and softball. Additionally, shielding was not a consideration since there was no real reason for shields on those specific ones because they were spots with directionals and lumens that differed significantly from the old fixtures that were currently in place. The old fixtures were metal

halide light fixtures, while the new fixtures were direct focus LED lights and were a completely different type of lamp.

Troy Tyler, Geo Lighting, 2820 Mechanic Road, Hillsdale, MI 49242.

Mr. Tyler stated that the new light fixtures had small shielding, which offered a more extended shield, but for that application, the company supplied a system instead of a fixture. The company offered a range of fixture series tailored to meet customers' needs and applications across various fields and locations and was confident in the fixture and shielding and believed there would be no impact on the distance from the new lights compared to the existing ones at the park.

Chairman Smolik noted that the Administration was concerned about glare to the motoring public or the surrounding businesses and asked that based on the height of those lights, could there be glare for cars driving by.

Mr. Tyler explained that there would be no glare worse than that of a streetlamp, a Rite Aid parking lot, or similar. The company had poles that were 80 feet tall, and with the direct light as mentioned, everything was based on the aiming angle of the fixture and direct light. The pole is height was enough to accommodate only a certain angle for the fixture, and the angle at which the fixture was positioned would help reduce glare, spill and other similar effects. There were no concerns with any of the streets or around where glare would have an impact on any driver, walker, or anyone in the stores or similar.

Chairman Smolik noted that the Administration wanted to know, once the lights were up, whether light pollution would be a problem for an adjacent parcel and asked if they aimed the lights, or could additional shielding be installed.

Mr. Tyler clarified that add-on shielding was possible because the Clear 2 fixture, used in that application, came with a standard visor instead of the larger shield called a "hood" that could be added if there were a problem with complaints. He stated that it did have a slight effect on the field of play, however, some rearranging of the fixtures might be necessary. The reason was that the visor affected how long the light aimed.

Chairman Smolik noted that the Administration wanted to know if the old light fixtures could be included in the foot candle calculation, so that there would be a total foot candle value with everything lit up at once.

Mr. Tyler clarified that they could not guarantee performance, especially with the metal halide system, because it degraded significantly over time compared to LED. He agreed with Chairman Smolik that he could presumably do the calculation, as the old light fixtures were new without any degradation. However, the company had not used the old light fixtures in years, but could mimic the current design, including the number of poles and fixtures, and demonstrate how the fixture compared. The company had photometric files to mimic a metal halide design.

Mr. Borkey wanted to know if there is a specific foot-candle level at the intersection that was approved and could not be exceeded.

City Engineer Eavenson stated that her concern would be the neighboring properties and the recreational area next to the park on the east side of the existing height. She wanted to assess the area with the eight

light bulbs on the two fields adjacent to the adjoining two fields, each with eight to 10 lights without shields, to determine how that would impact the neighboring properties.

Mr. Tyler clarified that it was easy to do what was requested. He added that if there were metal halide poles existing with no shields, then the old lighting fixture was already worse than what the new light fixture would add to it. He stated that he would show a close replica of a matching fixture count with the metal halide fixture, which had no visor and would then demonstrate what the new light fixtures would add to it, highlighting what they were currently dealing with. There was a possibility that all light fixtures would be run all at once from dark until p.m. - sometimes the lights could be on for two hours, sometimes it was three hours.

Mr. Borkey added that Starbucks presented more foot candles at that intersection than were currently requested by Victory Park.

Mr. Tyler remarked that they would provide updated calculations with the new and old light fixtures.

Chairman Smolik noted that the Administration wanted to know the height of the poles.

Mr. Tyler remarked that the pole was an 80-foot structure for the large multi-purpose turf area, with 12 light poles surrounding the field. The other two light poles, added to help the infield, were 70-foot structure light poles. He stated that the throws and lines on the drawings for the project represented the fixtures for light aiming and the throws on the larger field were considerably longer; thus, the farther the throw, the higher the angle increased regarding spill and glare. He mentioned that the shorter aimed light used a shorter pole and still directed light where it was aimed without producing any upward light.

Chairman Smolik asked if there were any other questions or comments from the public.

None were given.

Chairman Smolik asked if there were any other questions or comments from the Commission.

Member Ali stated that based on experience and being in the field, that the LED, compared to the metal halide, could be controlled either by an app or a remote and one could change the color and wattage usually by an app with a good quality LED.

Chairman Smolik asked if there were any other questions or comments from the Commission.

None were given.

Chairman Smolik asked if there were any other questions or comments from the Administration.

None were given.

> Moved by Smolik and seconded by Schumann to approve the application with the condition to submit a new photometric, taking into account both proposed lighting and existing light sources.

A roll call vote was taken and the motion carried.

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Yes – 5 No – 0

NEW BUSINESS

PPZ2024-0299 Hampton Place Subdivision Phase 8, PPN 07-00-029-000-203, -515
Owner: Valore Properties, 23550 Center Ridge Rd, #101, Westlake, OH 44145. Proposal consists of final development plant approval of Hampton Place Subdivision Phase 8. Property is zoned R-1 Residence District.

Application was read.

Chairman Smolik asked Director Lieber for findings of fact.

Director Lieber stated that the preliminary plan for Hampton Place was amended in 2023 to account for Phase 8. The originally proposed commercial property was instead developed residentially. The developer altered the layout of the residential lots for about 11 1/2 acres for residential and then also added about a 17-acre piece of property that had been reserved for commercial use. Phase 8 collectively had over 28 acres containing 55 dwelling units, 44 of which are considered single-family lots and 11 on cluster lots. She stated that the density was 1.93 units per acre, which was below the required density. In that phase, there were a little over 7 acres, which was 24.7% of open space, most of which would be used for stormwater management or delineated wetland areas. There was a slight change from the preliminary plan that was approved based on engineering's requirements for stormwater management, especially where the development was going to abut dwellings on Avon Belden, the size of several of the single-family lots were reduced and then the amount of open space increased. As a result of that lot reduction, the applicant had to apply to the BZBA for a couple of variances to create a couple of sublots that were smaller than code would require, but those were approved. She mentioned that a landscape plan was a requirement for the final approval, and that was submitted with input from the City's Arborist. The developers updated their proposal with the selected three street tree varieties—Yoshino cherry, Shade Master honey locust, and Green Spire Linden. The developer would submit a planting plan before those were ultimately installed, which would be a little bit of time from now. Also, as part of the City Arborist's review, it was noted that the landscape plan for Phase 7 was a monoculture of the same plant, so it was asked if they hadn't installed the trees, if those could also be diversified. The developer had agreed and has agreed to American Sycamore, Shade Master honey locust, and Red Sunset Maple. The greater variety of plantings in that case brought the plan more in line with the master tree plan that was previously discussed.

City Engineer Christina Eavenson commented that engineering wanted to know if there were still many outstanding items concerning the improvements for that phase of construction and that developers' agreement did allow them to provide a performance bond to cover those outstanding items, which engineering had estimated the value of those to over $1,000,000. She explained that there were some large-scale items, including concrete roadways, that had not yet been installed and there were some items of concern, including a section of sanitary sewer that failed the pressure test and would need further investigation. Additionally, there was an issue with an existing drainage tile located behind some of the existing residents along State Route 83 that had not been addressed. Based on engineering field observations, it was believed to run along Hampton's eastern property line, as well as the neighboring properties to the east along State Route 83. She stated that engineering was unsure whether the tile was a stormwater drainage tile and that it has not been identified whether it potentially conveyed discharge from the leach fields along State Route 83. She said that it was proven to be a stormwater tile, the developer was

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requested to remove it and either tie it into the stormwater management system or bypass it with a ditch or additional piping and that if it did carry septic discharge and had been proven that no easements existed on the developer's property, although it was not the developer's responsibility to provide an outlet for those leach beds, they still needed to alert the Lorain County Public Health of the situation, so that they may investigate potential solutions for that issue. She explained that due to those concerns engineering recommended the plat not be signed until the issues were resolved, as it could potentially require realigning the sublot property lines or the block property lines if additional drainage was needed within the Hampton development.

Assistant Law Director Toni Morgan had no legal issues from the law department; however, she wanted to know if the developers had posted the bond for work that had not been completed or addressed.

City Engineer Eavenson remarked that the developers had not posted the bond, and the Engineering Division had only estimated the outstanding items.

Assistant Law Director Morgan wanted to know if the City expected to obtain the bond for coverage, as the development agreement allowed for it.

City Engineer Eavenson explained that, as standard practice, the City allowed outstanding items to be addressed with a performance bond, which must be issued for 100% of the value of the outstanding items. The developer, the applicant, was aware that if they had outstanding items, the City would request that performance bond; however, the transaction had not yet transpired.

Assistant Law Director Morgan wanted to know if it would be acceptable to obtain approval from the Planning Commission prior to completing the outstanding items, or if they would be more comfortable with the bond being issued before the Planning Commission approval.

City Engineer Eavenson expressed hesitation to sign the plat if there would be sublot redefinition or Homeowners Association (HOA) block redefinition in that area of the drainage tile, because they might potentially need more room to address the drainage and were cautious about signing the plat without that particular item being worked out.

Assistant Law Director Morgan wanted to know the authority for not signing the plat if they approved the plan and asked if that was commonly done.

City Engineer Eavenson remarked that there needed to be a condition stating that the item must be addressed prior to plat approval, or the Planning Commission should not approve the plat.

Assistant Law Director Morgan asked if the requested work pertained to the last phase or covered the entire development.

City Engineer Eavenson noted that the outstanding issues were only for Phase 8.

Assistant Law Director Morgan advised that if approval was granted, the outstanding items must be requested as a condition of approval.

Chairman Smolik asked if there was a representative for the application present.

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Jason Fischbach, 31001 Hilliard Boulevard, Westlake, Ohio, representing Valore Properties.

Mr. Fischbach remarked that they are starting to pave on May 14, 2025 and expect to have everything cured out completely including Cul-de-sacs by May 29, 2025. He stated that that probably made up a large portion of the million dollars that they spoke about, probably three quarters of it.

City Engineer Eavenson stated that she was sure that they didn't want to write the performance bond if they didn't have to.

Mr. Fischbach stated that that was correct and that within 23 days the concrete was expected to be down if weather allowed the progress, but they had calculated that in. He discussed that any of the drainage on the backside, obviously we put in that big storm system that was incorporated into the plans, and that he didn't know exactly where or what was in that other storm drain that was discovered, so they would have to definitely investigate that. He stated that as far as anything being contingent upon getting the plan to move forward, based on their timeline and they would do anything and everything that they had to do to keep it moving forward, especially since they were starting to pave tomorrow and everything was set up in there and ready to go. He commented that they would like to keep it moving without any further delay and that in situations like that in the past, they had delivered and kept things moving, which was what he would propose for the plat and everything that they had going on there.

Chairman Smolike asked if there were any members of the audience that had any comments regarding to the project.

Jesse Gast, 6084 Avon Belden Rd, North Ridgeville, OH 44039.

Mr. Gast stated that regarding the big storm sewers that they were putting in, his yard was flooding out big time ever since they started that project and his backyard had been a lake. He stated that he had geese and ducks every time it stormed swimming in his backyard. He mentioned that they raised his backyard behind it 3 feet and just dropped that big drain tile and put dirt right over and commented that it was going to drop straight down into his yard and that they were not supposed to match with natural flow. He stated that it was 3 feet away from his property line and was going to be a dead drop. He discussed that one could see that it was just a big black pipe and that they had just put dirt right over it. He said that he measured it and it was 3 feet high and they weren't finished putting dirt over it yet.

Tracy Gast, 6084 Avon Belden Rd, North Ridgeville, OH 44039.

Ms. Gast stated that she had two parcels and that her sump pump was continually running because of all the back flow and that the water had nowhere to go, so it was coming towards her house.

Mr. Gast stated that his was the lowest lot out of the three one acre lots.

Chairman Smolik asked if that was the first time that the City had heard of the issue.

Mr. Gast stated that he had spoken about it in the past.

Chairman Smolik asked in what forum, if he called someone on the phone.

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Mr. Gast stated that he came up there once and started to bring it up and it was like something stupid, so he just walked off. It was years ago, but he had not been back since. He mentioned that now that that had started, it had gotten worse, and he just couldn't take it anymore.

Ms. Gast stated that she had two parcels, and it cost her $5435.10 in taxes she was paying on and was getting all that flooding.

Chairman Smolik stated that he assumed the Administration would have an inspector take a look and see if the developer violated any drainage rights.

City Engineer Eavenson stated that the Engineer's office would be happy to look into that.

Chairman Smolik thanked the applicant for bringing it to their attention. He asked if there were any other members of the audience that had any questions or comments.

None were given.

Chairman Smolik asked if any of the Commission members had any questions for comments.

Vice-Chairman Schumann asked City Engineer Eavenson regarding the potential sanitary waste that may be spilling into the storm water system currently, if she was aware of any or if it was just a maybe.

City Engineer Eavenson stated that Public Health did not call it sanitary waste but that it was more of gray water, a septic tank to leach field to outlet. She explained that they had kind of a similar situation with the development on Stoney Ridge and there was some development that backed over there that had existing septic systems and that drain tile was uncovered during earthwork operations and it was found that it was mostly just drainage from the leech tiles and that because of certain requirements that the Public Health had about that discharge, especially in the older systems, they do not allow connection to new storm sewer systems. She stated that at this time she didn't know and had only been made aware of the situation recently. She discussed that as far as she was aware they hadn't uncovered if it was all just storm surface runoff or if it was indeed from outlets to the existing leach beds there. She added that more investigation needed to be done and then Public Health would need to be made aware of the situation and help those people remedy the situation.

Vice-Chairman Schumann asked if that did uncover that those leach beds were failing, was that something that would be corrected after the fact.

City Engineer Eavenson stated that as they may be aware of some recent communication that went out to the county that Public Health was having a more active role in reviewing and inspecting existing systems. She discussed that they had really been pushed by the State to inspect more regularly and provide guidance for the existing systems and typically they would get them involved as soon as possible in those situations to see what could potentially be done. She stated that unfortunately, what they saw on the other side along Stoney was that the neighbors were discharging onto a property that they didn't own and there were no easements for, but back in the day, unfortunately easements weren't secured or obtained and would go back to the property owner of the system itself to resolve the issue.

Vice-Chairman Schumann asked if the Commission approved the application, would that be something

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that could be taken care of after the fact or would they be remiss in approving it if there was a potential problem.

City Engineer Eavenson stated that at the very least, she would recommend that they make a conditional approval for the plat that it not be executed until they got more information on that drainage tile as they didn't know if it was storm water or leach field discharge. She explained that she would need to know that and then they could make a recommendation from there about what to do with it.

Vice-Chairman commented that they would be going ahead and starting the project and starting to place some concrete and that would be okay as long as they had that condition.

City Engineer Eavenson stated that she would be amenable to that.

Chairman Smolik asked if there were any other questions or comments from the Commission.

Council Liaison Abens stated that that was something he had learned over the last couple of years as it pertained to cul-de-sacs and suggested that they put maybe some extra rebar in those areas because when they started failing, they were expensive. He discussed that that was what was happening in Ridgefield and a few others that their cul-de-sacs were failing and it cost a lot of money for them to repair those things.

Mr. Fischbach stated that they stabilized 100% of the project and thought that if they factored that in, that might help their thoughts on that.

Council Liaison Abens stated that he wished the City's fathers would have known about those details when cul-de-sacs started going in.

Chairman Smolik stated that typically on plats when there were wetlands, they were protected by a conservation easement and asked what the protection was on those wetlands once the HOA started to maintain those parcels.

Mr. Fischbach stated that in the other phases that they had there, those areas were deep, whether they were wetlands or setbacks in areas that were not to be disturbed, there was nothing surrounding them that he was made aware of. He commented that as they took them over, he thought they understood that that was indeed what those areas were, and they were to remain natural. He stated that there was nothing special that went on in those areas and that they would clear around them and make sure that they were not disturbed as they were currently. He discussed that they had been protected since the start of construction and were orange fenced off and as they delineated or whatever they did there, they could get into certain areas and remove them. He mentioned that he still had some areas over there in that particular project Phase 8, that they hadn't removed yet just to make sure that they were going to do after the roadway was poured.

Chairman Smolik asked if the HOA was fully aware and they would have all the correct mapping.

Mr. Fischbach stated that they would and that way they could continue to maintain the way that it should.

Chairman Smolik commented so that they were not developed in the future.

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Mr. Fischbach stated that that was correct.

Council Liaison Abens commented that in his HOA they did have wetlands and were not allowed to touch them. He stated that it was in their charter and assumed it would be in their charter as well.

Chairman Smolik stated that regarding the $1 million of work, he said that the concrete was going to be poured.

Mr. Fischbach stated that it was starting tomorrow.

Chairman Smolik stated that the Commission was a recommending body, and they would make a recommendation and then it would go to Council. He discussed that obviously it was going to take the City Engineer two or three weeks to find the correct felt pen and after that they had to make sure that the temperature was adequate and by then hopefully, all the work will be done. He asked if the City Engineer would feel more comfortable with a condition that they be at substantial completion before the plat was executed without a performance bond.

City Engineer Eavenson commented that as the applicant had already stated, the majority of the outstanding items were in the concrete but that's not to say that there weren't still outstanding items because there were and she had a list of 22. She discussed that once the roadway was in and had been approved by her team, then they could look at the outstanding items and could evaluate that for a performance bond on those remaining items. She explained that oftentimes a lot of those items would not be done until after the plat had been executed and that final grading, landscaping, lighting, were issues they worked out through the construction of the building phase, so they could implement the performance bond for those outstanding items negating the roadway. She discussed that she also wanted to ensure that the drainage tile was addressed and that there was a recommendation for addressing the tile. She stated that as long as they addressed those items, they could conditionally approve that the execution of the plat that would be done upon the roadway being in and the performance bond being submitted with the outstanding items at that value.

Chairman Smolik asked if there were any other questions from the from the Commission.

Member Toth asked the Administration regarding a note from the Arborist, Mr. Thomas, included in their packets he was citing Ordinance 1030.045, Retention and Preservation of Trees and Woodlands, and that it stated that developers shall retain and preserve as many healthy trees and woodlands as possible within their subdivisions and developments and according to the Arborist in Phase 8, the developer cleared an area greater than 10 acres and it was 100% removed. He discussed that he remembered with another developer that they had a project with where they had done some cutting like that and the City was able to have them plant additional trees to make up for that clear cutting. He asked if the clear cutting was done in a compliant fashion and if there were any plans for the City to ask them to add additional trees.

City Engineer Eavenson stated that she couldn't recall offhand if there were certain areas that were slated to be preserved and then they weren't, so she would have to review that. She discussed that a large chunk of that particular phase was cleared, and the improvements extended to every border, so she couldn't recollect if there was a certain area that was for preservation. She mentioned that regarding the example that he was citing, there was an area that was supposed to be preserved and talked about during planning and then the contractor, unbeknownst to that developer had cleared additional areas, so in that case, they asked the developer to go back and reestablish those trees for replacement. She stated that she didn't recall any areas in here that were slated for preservation that weren't and that she would have to review that.

Chairman Smolik asked if there was any other questions or comments from the Administration.

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None were given.

Moved by Smolik and seconded by Schumann to approve the application with the following conditions:

1. Further investigation of the unclassified pipe on SR 83 and a resolution that is acceptable to Engineering.
2. Finish the construction of the concrete roadway.
3. A financial guarantee will be provided equal to the cost of all remaining items not constructed to the satisfaction of Engineering.

NOTE: All conditions must be fulfilled before the plat is signed and executed.

A roll call vote was taken and the motion carried.

Yes – 5 No – 0

PPZ2024-0308: Circle K, 34273 Lorain Rd, PPN 07-00-014-106-012
Applicant: Brett Lamb, Circle K Stores, 935 E. Tallmadge Ave, Akron, OH 44310. Owner: AGLR Investments, LLC, 36097 Westminister Ave, North Ridgeville, OH 44039. Proposal consists of a new Circle K gas station and retail store. Property zoned B-3 Highway Commercial District.

Application was read.

Chairman Smolik asked Director Lieber for findings of fact.

Director Lieber stated that the proposal consisted of a new Circle K gas station and a retail store at the southeast corner of Lorain Road and Root Road and it was about a 4.38-acre property in a B-3 Highway Commercial District. She discussed that surrounding the property were parcels that had a variety of zoning designations, mostly B other B-3 zoned property and to the south there was a parcel zoned R-1 and to the west there was some combination of I-2, which was limited industry and also B-1 Neighborhood Business District, so there was a smorgasbord of zoning designations in that area. She explained that an automobile service station was a permitted use in the B-3 District. She added that another way of saying permitted use, was a by-right use, and was explicitly allowed without needing any special approval as long as it complied with the standards of the zoning code. The applicable regulations might be setbacks, height, lot coverage and parking but it was different from a conditional use in that it might only be allowed if it could meet certain special conditions. She discussed that the code had areas that established prohibited uses that were expressly not allowed in certain districts, but in that case, zoning laws were established by council to define land uses that could be located in different areas of the community and that particular zoning designation that was previously established allowed for that use and fell squarely within the list of permitted uses in the district. She stated that for that project, proposed structures included a new close to 4,000 square foot store with 12 fueling stations covered by a canopy. She stated that on the site currently there was an existing house garage and several accessory structures that would be demolished. She indicated that the project was zoning compliant in terms of building height, lot yard requirements and lot coverage and that the building itself was comprised of various textures and colors of a Nishiha product, which was a fiber cement panel. On the outside of the building would be a propane tank, ice chest, and a seasonal display on the sidewalk outside the main entrance. She discussed that the canopy itself would be comprised of aluminum composite panel with steel supports and they provided for trash enclosure which would be constructed of a coordinating Nishiha brick to match the building. She explained that based on the retail use and also the size of the store, 23 parking spaces would be required and the plan showed 17

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straight parking spaces and then there were the 12 spaces also at the fueling stations. She stated that imagining people would come for gas and then go in to get food or other retail items, Planning Commission could determine if those fueling station spaces could be counted to meet the demand for the store and she thought it was a reasonable request. She said that curbing was provided around the paved area of the site, there were bollards along the front of the building to protect the structure from those head on parking spaces and from those patrons on the sidewalk. She explained that two curb cuts were shown, one on each frontage and that the Lorain Road curb cut was a three-lane full access and the Root Road curb cut was right-in and right-out only. She said that a truck turn exhibit was provided, and sidewalks were provided along both frontages, and that a bike rack was required for that use. She stated that the landscape plan showed some plantings along the frontages and beds and also around the proposed ground signs and that Arborvitae screening was provided along the east property line and also wrapped the area where the dumpster enclosure was located. She stated that she recommended that Arborvitae not be planted within 20 feet of the sidewalk just to ensure driver visibility coming in and out of the site. She said that additional trees were located along Root Road driveway and landscape irrigation was provided. She added that there was existing natural vegetation, and there was a required riparian set back that provided some significant existing buffering to the vacant residential lot to the south. She indicated that the lighting consisted of a combination of building mounted light fixtures, pole and canopy lights, and they had an updated lighting plan that was submitted recently. She discussed that the site plan changed a bit and so the lighting plan caught up to that site plan and it appeared on her first review that mounting heights of the poles, the fixtures and illumination levels were code compliant. She stated that French Creek ran through that southern corner of the site, which required the riparian setback and mentioned there were also several wetland areas that had been identified. Wetland A would be preserved, and B was going to be removed. She stated that stormwater management was in a basin to the rear of the property and that staff had recommended the applicant add a maintenance access route to the parking lot to that area along that northeast side of the building. She stated that there was an exterior sign package provided that would require variances, but she really wanted to address a bit more about traffic and access as that was the key concern of City staff when the project was brought forward for consideration. She discussed that the applicant provided a traffic impact study and they submitted that study to the City's traffic engineer consultant who was very familiar with that particular area of town and as a result of their analysis and recommendations and also the internal dialogue with the applicant, they had had significant discussion between all the parties about existing traffic frustrations and considerations and also future traffic conditions that they could anticipate with growth not just in North Ridgeville, but in the areas surrounding North Ridgeville that impacted local traffic and that they were aware that they needed to anticipate potential future road widening or other safety or efficiency improvements at Root and Lorain because it was only getting busier and that project would certainly increase traffic. She mentioned that based on those discussions, they requested and the applicant updated, their traffic impact study and they also agreed to some significant modifications from the original site plan and some of those were that on the site plan that had some of the red line displayed on the drawing, with the first concession being the dedication of right of way to the City for potential future roadway widening and other improvements that would potentially include a future roundabout at Lorain and Root. She said that it wasn't necessarily a project that they had on the books, but they just wanted to keep the options open for the future. She stated that they knew roundabouts could create efficiency and also were aware that conventional road widening might be a possibility at that intersection, so the red lines along that showed the setback increased along both Lorain and Root and then the radius allowed maximum future flexibility for the City of North Ridgeville to determine the best potential future expansion at that intersection. She discussed that the property owner would dedicate a 20-foot-deep strip of property along both Root and Lorain and also dedicate property at the intersection to accommodate a roundabout that would be 200 feet in diameter that would include the sidewalks required around the roundabout. She stated that the property owners

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were also providing a larger easement area for the culvert at French Creek than currently existed. The applicant agreed that the Root Road curb cut would be right-in, right-out only and also located as far south from the Lorain Road intersection as possible. She stated that they did discuss that the Lorain Road curb cut might be full access but with conditions, and some of the suggested conditions were that if there were to be a roundabout constructed at Root and Lorain in the future, that the full-access Lorain Road curb cut would be converted to right in, right out only because that roundabout would allow functionality traveling in all directions, therefore, left turns into and out of the site would no longer be required. She discussed that what if the roundabouts were not constructed and there were accidents, and had conversations that if significant traffic crashes resulted at that Lorain Road curb cut after the opening of the Circle K, that the applicant would agree to also convert the full-access curb cut to right-in, right-out and they established a metric based upon the uniform manual of traffic control devices and that specifically looking at angle or pedestrian crashes, five such crashes in a three year period would be that triggering moment. She stated that they also asked them to make, as part of their project, modifications to pavement markings because they knew that the northbound left turn lane from Root onto Lorain Road was undersized for the queuing capacity needed now and in the future, so that would be extended and they also had concerns about that Lorain Road curb cut and left in and traffic blocking that intersection for left-in and left-out, so some kind of pavement delineation that would prevent queuing up of traffic in that particular location. She mentioned that last was that if any signage or elements of the project were located within any future right of way, that if anything needed to be relocated as part of the project, that it would be at the owner's expense and not the City's expense. She stated that the City appreciated the applicant's willingness to work with the City through their significant concerns about traffic and believed that many of those conditions should be conditions of Planning Commission's approval, if they choose to grant it.

Chairman Smolik asked for clarification regarding the future road widening, either traditional intersection widening or roundabout, he asked if they were dedicating a portion of their land to the to the City for free.

Director Lieber stated that that was correct.

Chairman Smolik remarked that that was great partnership and asked if that was for both the roundabout and for traditional intersection.

Director Lieber stated that that was correct.

Chairman Smolik commented that they also agreed that if that one intersection had accidents, to go back and look at that.

Director Lieber stated that that was correct.

City Engineer Eavenson stated that the applicant had addressed all of engineering's preliminary concerns and the final remaining items would be reviewed during the final engineering permit. She mentioned that she would like to see the applicant prepare the right-of-way dedication plat and ensure that it got recorded at the county.

Chairman Smolik asked if there was a representative for the application present.

Brett Lamb, Circle K, 35 Hudson Common Dr. Hudson, OH 44236.

Robert Wellert, 5136 Beach Rd., Medina, OH 44256.

Mr. Lamb stated that they were really excited about the partnership and working with the City had been truly a good partnership and that Circle K was trying to build that community in North Ridgeville. He stated that his job at Circle K was real estate development and one of the things that they were excited about was bringing their best in class and best foot forward in building prototype to a city like North

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Ridgeville. He discussed that they hadn't done a lot of new development in Ohio in the past 5-10 years, but Ohio had always been an area where we they have had good customer loyalty, good brand recognition. He mentioned that they had a lot of older tired assets throughout the State of Ohio, and they were just excited about what they were bringing to the future in North Ridgeville. He stated that the new prototype was going to bring their full food offer and would have all the bells and whistles of a best-in-Class-C store gas station and hopefully it would be something the City could be proud of for many, many years to come.

Chairman Smolik asked if there was anyone from the public that had any comments or questions.

Kitty Salyer, 8605 Root Rd, North Ridgeville, OH 44039.

Ms. Salyer stated that her property was near the intersection and across the creek from the property where they wanted to build this gas station and she was opposed to building it or any other gas station at that corner because the gas station would bring even more traffic to an already heavily congested area at different times of the day and one concern she had was safety. She discussed that she was also concerned about the reduction in the property values due to the proximity of a gas station that very few people would like to live next to not only because of the traffic issue, but because of litter, crime, odor and lack of visual appeal. She stated that there were already gas stations in the area that people could go to and that did not benefit the neighborhood. She mentioned that from her short period of time living in North Ridgeville, there were things she really liked about the City, however, as a person who also came from Hudson, she would love to see a solid plan of creating a nicer commercial district that appealed to people who can come from out of town and spent money in the City. She said that she didn't think a gas station would be as beneficial at that end of Lorain Road as another business would be and they already had three gas stations on Lorain Road within a mile and a half of that location. She asked if they created an area with multiple gas stations strung all the way down the road, how attractive would that be.

Barbara Ackerman, 8578 Root Road, North Ridgeville, OH 44039.

Ms. Ackerman stated that she lived in North Ridgeville for 40 years and her husband had lived there his whole life. She mentioned that she wanted to tell a story that happened about 10 years ago. She said that a semi was driving down Root Road and semis weren't allowed on Root Road, but he was driving down Root towards Lorain Road and made a left turn in the Baptist Church and he had three rows of coil of steel. She stated that the semi flipped, and her husband went and got the guy out of the cab. She said that diesel fuel went down in the ditch and remarked that it could happen that the gas tanks could leak and then once the gas station was there the value of the property wouldn't be worth anything. She stated that regarding the traffic on Root Road, the traffic on Saturdays was horrendous and on Sundays from 12 to 6 o'clock traffic was backed up to the end to past development to get out of there. She discussed that her husband worked late at night and there were always police at Sheetz and asked if that was what was going to happen there. She said that she grew up in the City of Avon and it was known that there were as many bars as there were churches and that people would go to the bars on Saturday and on Sunday, they went to church to repent. She stated that North Ridgeville had Mexican restaurants and gas stations and thought that they could do better than that to bring people and money into the city.

Chairman Smolik asked if there were any other audience members that had any questions or comments.

Holly Swenk, 36259 Center Ridge, North Ridgeville, OH 44039.

Ms. Swenk asked what the repercussion was if they agreed that three years from now, they had 16 car crashes in a week and they refused to make it a right turn. She discussed that there was a development going in down Reed Road by Sprague Road and they would have that influx of development coming to that gas station and they were going to only be able to make a right out of there, but they needed to go

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left to go home, so then they were going to have to go out to Lorain, make a left, make a left on Root Road, and that it was going to be a traffic nightmare. She mentioned that she stated that when they put Sheetz in and look at that intersection.

Chairman Smolik asked if there was anyone else from the general audience.

James Bart, Faith Baptist Temple, 601 Bowling Green Circle, Elyria, OH 44035.

Mr. Bart stated that he was the pastor at Faith Baptist Temple there on that corner and that they were concerned with the traffic and the safety there. He stated that he had a person living across the street there that came every Sunday and that he was walking across there. He discussed that regarding the creek that came behind there, since all of the developments had been built, that when it rained it would come underneath their bus barn and washing out that area under there and it was a big concern because if the flow got bigger, they were going to have a barn in the creek.

Douglas Connor, 445 Railroad St. LaGrange, OH 44050.

Mr. Connor stated that he was a trustee of the church across the street and his concern was the storm footprint that they were going to try to use because they were going to have surface water that they were going to have to control and he knew there was a retention there, but previously with all the upstream of the development, they had a tremendous amount of water coming through their property, which was that ditch line and they had erosion issues. He discussed that a while back the City put in a new 24-inch corrugated pipe discharge at an angle through that ditch line, which was even creating more surface water and was causing erosion, so they were going to have to build something. He mentioned that he didn't know if the City had anything in the engineering for that ditch and he didn't know what the easement was on that ditch line, whether the City had direction or if that was the church's responsibility as far as taking care of the erosion problems because of the storm. He stated that he didn't know if there was an easement on that ditch line or not.

City Engineer Eavenson stated that North Ridgeville did have maintenance right-of-way over that ditch line that was 75 feet, so centered on the ditch, so they did have access and availability to get in there. She stated that she couldn't speak for Public Works if there was any planned maintenance for that particular section of the ditch line, but she would have to inquire with them.

Mr. Connor stated that as they could see the ditch line that existed there came in at an angle now, and that angle was right into their property where their building was. He stated that more surface water now was going into the ground and if hard surface down was put down, they had to control that water, water off of the pump area, water off of the building area, water off the concrete surface and even though they had a retention basin there, he was hoping that it was big enough. He stated that they were still going to have water coming out of that retention basin, maybe not all at one time, that was the whole purpose of it, but there was still the volume of water that had to go somewhere and it was going to go to that ditch line because that property fell towards the ditch and then it would go right across their property and they would have to deal with the issue of more water. He mentioned that the ditch would rise 4 feet with all the rain that they had had and it had been a really wet spring. He stated that that as well as the traffic were their concerns.

Mr. Bart stated that he got the letter from the state about alcohol, regarding its distance and so on, and asked was this the alcohol that was going to be 500 feet from his property. He stated that the letter said that if he objected, he had three objections that were: 1. Do you want to call a hearing, 2. Do you want to go to Columbus and have a hearing or 3. Do you just want to object and not have a hearing. He stated that he called the man and put down object and sent it to Columbus.

Chairman Smolik asked if he was talking about a liquor license.

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Mr. Bart stated that he was.

Chairman Smolik stated that it wouldn't have a liquor license because that was more or less for a bar or restaurant.

Director Lieber said it was for retail sales.

Chairman Smolik asked if they had a separate liquor license and stated that it wasn't like the one that only had so many per city.

Mr. Bart stated that he wanted to know where the alcohol was going to be sold, was it going to be 500 feet from his property, which he was right on the corner on the other side of the street. He explained that when the road was widened before, it took 10 feet of their property all along that side there. He asked how close the building that would be selling the alcohol would be to his property.

Assistant Law Director Morgan asked if he received the letter because it was less than the required amount of footage from his establishment.

Mr. Bart commented that he thought it was just telling him that somebody had made an application or something and they had a license to sell a liquor there and the letter stated that 500 feet from a church or school you couldn't sell alcohol and that was why he called his lawyer who said that he could object but as long as they met that 500 feet.

Assistant Law Director asked if they did meet the 500 feet.

Mr. Bart stated that he didn't know, he was guessing that they did.

Mr. Fischbach stated that anytime they got a retail sales license, so it was a C1 and C2 license, which was just for beer and wine consumption, but off site and that one could buy a six pack of beer and take it out and that was the license that they got at their convenience stores and that those licenses a C1 or C2, were controlled by how many you had. He stated that they would run those by their attorneys and they would get the licensing and he believed that there were two permits available to them even if they were within 500 feet of a church or a school in the state of Ohio. He stated that they were allowed to sell, within those two C1 and C2 permits, they could sell beer and wine, but they were not selling any hard liquor and that was a different permit. He explained that they were required to send notice to a church or a school notifying them, but barring some very, very hard thresholds of abusing those permits, one could object, but it was difficult, from what his attorney said, to challenge those.

Chairman Smolik stated that regarding some of the questions about the underground storage tanks, Ohio had established BUSTR and if he would discuss that a little bit.

Mr. Fischbach stated that he was going to let his engineer speak to the BUSTR rules.

Mr. Wellert stated that the underground storage tank system would all conform to federal and Ohio State requirements and that they would obtain appropriate permits for that. He explained that they were double wall tanks, double wall piping, so that if there were some type of leak, they had the outer containment vessels for that, and it was a continuously monitored system. He stated that it was the newest and greatest systems out there and was pretty standard industry for all new gas stations, not like their fiberglass tanks. He mentioned that it was not like the old steel tanks that they would have back in the 40s and 50s even in the 60s, that seemed to fail on their certain periods and lifespans that especially a company like Circle K was very aware of that and they monitored and took care of those systems right.

Chairman Smolik asked if they would discuss storm water control and how retention, once the site was developed, the outfalls would be actually less than it was before.

Mr. Wellert stated that as shown on the plan, they did have a stormwater basin that was preliminary

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sizing right now but was probably in the ballpark of where it would end up being and that all of the stormwater for the paved areas would go into that basin. He stated that it was held temporarily, that the rate of runoff was slowed down, and was discharged at equal to or less than predevelopment rates. He discussed that however that final design ended up, there was still some massaging they would have to do to get it there, but it would be in conformance with the City of North Ridgeville and State of Ohio EPA requirements. He explained that the State of Ohio had water quality requirements, and they would meet those also with this basin.

Chairman Smolik stated that regarding the question that came up regarding the difference between that project and Sheetz was that Sheetz a full food preparation area and asked if Circle K was more or less of a convenient store.

Mr. Fischbach stated that Sheetz was essentially a gas station and a Taco Bell. He stated that they had a full drive through, they had a full kitchen, they were cooking food on site and Circle K did not do that. He explained that they had a program that internally meant nothing to the Commission but was called fresh food fast, and it meant that they were cognizant of the fact that they wanted to have a better food offer than the "C" stores of the past. He stated that they wanted to offer freshly made salads and freshly made wraps and sandwiches that they could grab and go, but they would not be cooking those on site.

Chairman Smolik asked if they were heated.

Mr. Fischbach stated that they would have pizza that was heated and they could grab and go by the slice or a full pizza and same with the sandwiches. He discussed that those would be heated in essentially a convection oven type of thing that warmed those up. He said that they would warm up the breakfast sandwiches at a certain time in the morning so they were ready to grab and go and they also provided the ones that they could heat them up themselves if they took them to work and had a microwave kind of thing. He added that their food program was more convenient, more grab and go for the customer that was trying to get in and out because they didn't have a drive through and were not making food on site. He stated that part of the reason that Sheetz had the police there was because of that program. The kids love hanging out at Sheetz and they didn't have that same problem.

Chairman Smolik asked if any of the Commission members had any questions or comments.

Council Liaison Abens stated that one of the concerns he had and was sure that they realized was that they were deep in no truck zone area, and that the only legal way that he saw for their trucks to come and service that store was from I-480 Lorain and his concern was that he was going to be finding Circle K trucks on Sugar Ridge, Root, Reed and all of those asked how they were going to control that.

Mr. Fischbach asked if he was speaking specifically about their delivery trucks.

Council Liaison Abens stated yes, their delivery trucks.

Mr. Fischbach stated that they had provided that truck turn plan and they showed the City and City Engineers to ensure how they were going to have those trucks move in and out of the site safely.

Council Liaison Abens stated that he was just concerned because, believe it or not, he had seen 18-wheel tanker trucks on Sugar Ridge Road. He remarked that he understood that they weren't servicing Circle K, but that when they came in from 57, they liked to use Sugar Ridge. He added that he also believed that Circle K used a lot of spot gas, which meant they may be using some of the terminals that were along 83, which meant they would be coming down 83. He explained that it was not legal for them to come down Lorain and that if they used 82, they would try and use Root or Reed or something like that and he was just wondering how they were going to prevent the drivers from doing that.

Mr. Wellert asked if he could state specifically where it was not legal for the trucks to drive.

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Council Liaison Abens stated Lorain from 83 and any place on Root.

Mr. Wellert stated that the way they modeled it to date, assuming north is due up on the plan, they modeled trucks coming on Lorain Road from the east and they would head westerly to the site, enter the Lorain Road drive, drop fuel or supplies at the site, and then exit on the Root Road drive to get right back to the intersection, so they needed that 150 feet to head back to Lorain. He mentioned that it was his understanding that Circle K, and he had heard this at other locations with them, that they can control their truck deliveries, at least with respect to the fuel. He explained that they transported their own fuel, and they would tell their drivers that that is the route they had to take to get in and get out but regarding other vendors, he couldn't answer that.

Council Liaison Abens stated that his main concern was their fuel delivery trucks.

Mr. Fischbach stated that one of the benefits of being a corporately run store with its own fleet of drivers was that they did have control over how they were delivering and what route they were taking.

Council Liaison Abens stated that there was a trucking firm over on Taylor and they told their drivers that if they used Sugar Ridge Road, they would be in big trouble and his understanding was that not one of their trucks had been spotted on Sugar Ridge and that there were people there that would give him daily updates. He stated that his other concern was that not all cars were maintained properly and were dripping fluids, oil, gas, and God knew what else. He discussed that his concern was that when it rained, water runoff would go into that creek. He stated that he knew it went into the detention pond first, but that detention pond did not treat that water and asked how they could prevent their runoff from their pavement from those fluids that were leaking onto their pavement from going into that creek.

Mr. Wellert stated that there were potential methods for that to happen, but there were no specific regulations that were required at a gas station for that. He discussed that what he had seen at gas stations was some stained concrete, but he didn't know where it had come from but over the years that could happen. He said that the detention pond did control runoff, and it retained it and it was meant to treat the water. He stated that he couldn't guarantee it treated 100% of any type of petroleum release, but he was not aware of any regulations that were required for petroleum.

Council Liaison Abens asked if they would be setting something up in the detention pond to help treat some of those areas.

Mr. Wellert stated that yes, the general design of the detention ponds was that as the water came in, there was a deeper area for that water to pool and settle in and be still for a while and things could settle down before it discharged to where it was going to, such as a creek or ditch or receiving stream. He stated that it was designed by EPA regulations for water quality, but there was not a specific item for petroleum.

Council Liaison Abens stated that he also noticed that they had a grease trap and asked what the grease trap was for.

Mr. Wellert stated that it was for food and that there were still sugars and things that could be in the water interior to the store. He stated that he did have a question for Mr. Abens and asked if the City had a specific map with truck restricted routes, because he wasn't aware of where those were. He stated that Root Road was mentioned and asked if it was the full length of Root Road

Council Liaison Abens stated that he could depend on just about every road in North Ridgeville being restricted except for the State Routes and those would be 83, 20, 10. He stated that Lorain Road from the Turnpike east was the truck route, but the Turnpike west on Lorain was no trucks allowed. He mentioned that within the ordinances they were allowed to, but they had to use the shortest route to get to their location.

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Assistant Law Director Morgan stated that they could talk to the Police Department, too. She mentioned that they were very good enforcing if they weren't supposed to be there, but they were very helpful in helping them plan a route as well.

City Engineer Eavenson stated that she did have a map that she could get him.

Mr. Fischbach stated that that was something that Mr. Wellert needed as well as himself to be able to provide to their operations folks so that they understood that and abided by it.

Chairman Smolik asked if there were any further questions or comments from the Commission.

Member Ali commented that by being a past gas station owner and at present a mechanical owner, with their retention pond they could put an oil water separator in that that would take care of what Mr. Abens was talking about, so any kind of diesel or any fluids would be caught in the oil water separator and that was EPA certified.

Vice-Chairman Schumann asked if that was something that the Commission could insist upon or make the recommendation.

City Engineer Eavenson asked Mr. Wellert if he was obligated to have a spill prevention.

Mr. Wellert stated that the site had to prepare a spill prevention, containment and countermeasure plan, which identified what would happen in the case of a spill, but there were no written regulations that required an oil water separator for a gasoline filling station. He stated that he agreed with Mr. Ali that one could be designed to do that, but it could be kind of challenging for that site and there would be a fair amount of regrading, a lot of piping, things that would have to happen. He added that it was not impossible to do, but there was a balance between what was required by law or code and maybe what was good practice. He stated that he didn't know where that fine line was there on that decision, but there was not one proposed with that current plan.

Vice-Chairman Schumann asked if it would be cost prohibitive to do something like that.

Mr. Wellert stated that it could get pricey and stated that he was working on a project in another state where it was required in that community that they had to do it and that the separator itself was upwards of $150,000 and then they would still have the installation, the maintenance and it was a pretty expensive venture. He mentioned that the other issue with the oil water separators was they did have a limited capacity and that they couldn't just put one in and contain all of the storm water for the site. He stated that when he said that it would be somewhat challenging, a separator that would handle that whole site would be too big and it was not really feasible to do so. He indicated that they would end up containing a smaller area, which was generally under the canopy in the fueling area. He stated that it was rare, and he couldn't think of an instance where he'd seen it at a gasoline fueling facility, but that it was a little more common at truck stops because the diesel was just a little dirtier fuel and the rates of flow in a diesel dispenser were much higher than a gasoline dispenser. He added that when they had done it, it was almost exclusively at truck stops under their high flow diesel.

Assistant Law Director Morgan commented that generally speaking, in order to add conditions, they had to be reasonable, and they would need some kind of fact-based evidence that it was necessary in that applicant's circumstances as opposed to that there was something different about that application compared to other ones. She stated that they needed a little bit more.

Vice-Chairman Schumann stated that anything that was going to fall on that concrete at that site was the same stuff that was going to hit the road.

Assistant Law Director Morgan stated that he had to comply with engineering requirements and the EPA requirements and as stated previously, they would need additional evidence that that was going to be

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more contaminated than other similar sites in order to require that.

City Engineer Eavenson stated that she believed due to the nature of the project, he would have the spill prevention that was talked about and asked if they had a kit or material on site so that if there was at the hose some discharge on to the pavement, they had the material or the netting or whatever it was that they used on site at all times.

Mr. Wellert stated that the spill prevention plans were not something that they prepared as part of the development, but they were part of Circle K's operational procedures and required with their new sites. He mentioned that she was right, that they had spill kits with methods to clean up any spills and believed that there was generally a manual available with emergency contacts and procedures there to follow in case of a spill. He stated that the things that they would see from automobiles would be no more than what they would see at a Walmart parking lot or Rite Aid or some other parking area. He discussed that it seemed the general concern was what would happen if the gas dispenser started spewing fuel. He mentioned that they had all been to a gas station and they had to physically hold that handle open and someone would have to be deliberate for it to be overfilling. He stated that there were overfill releases in cars that shut those handles off and that there had been instances where someone would put a nozzle in the car and forget and drive off, but if they had ever looked at the black hoses at those dispensers, there was a stainless-steel collar further up and that was a breakaway. He added that if that hose was pulled, that it would break away and it closed a valve, so the only fuel that they would lose was that amount in that dispenser hose. He explained that there were methods in the fueling system to limit any type of release generally. He stated that he had heard of releases before, and they had been relatively small like 20 gallons or something. He stated that it may sound like a lot, but it was not like they were talking about hundreds of gallons or a whole gas tank from a semi spilling on the ground.

Member Toth asked if they would confirm the hours of operation and if it was going to be open 24/7.

Mr. Wellert stated it was.

Member Toth stated that Administration spoke regarding the northbound Root Road left turn lane queuing and mentioned an extension to that lane and asked when that would occur and if it would be prior to construction or would be concurrent.

Mr. Wellert stated that it would be concurrent with construction. He discussed that the current queue length for the left turn was about 50 feet, and they were proposing to extend that to 150 feet of left turn queuing and that would be part of that project.

Member Toth asked if that land would be coming from the Circle K property and not the church's side.

Director Lieber stated that it was available in the current right of way and just needed to be restriped.

Mr. Wellert stated that any dedication would be only from the Circle K side for property dedication for future use.

Chairman Smolik asked if there were any further comments from the Administration.

None were given.

Moved by Smolik and seconded by Ali to approve the application.

A roll call vote was taken and the motion carried.

Yes – 5 No – 0

DRAFT

ADJOURNMENT

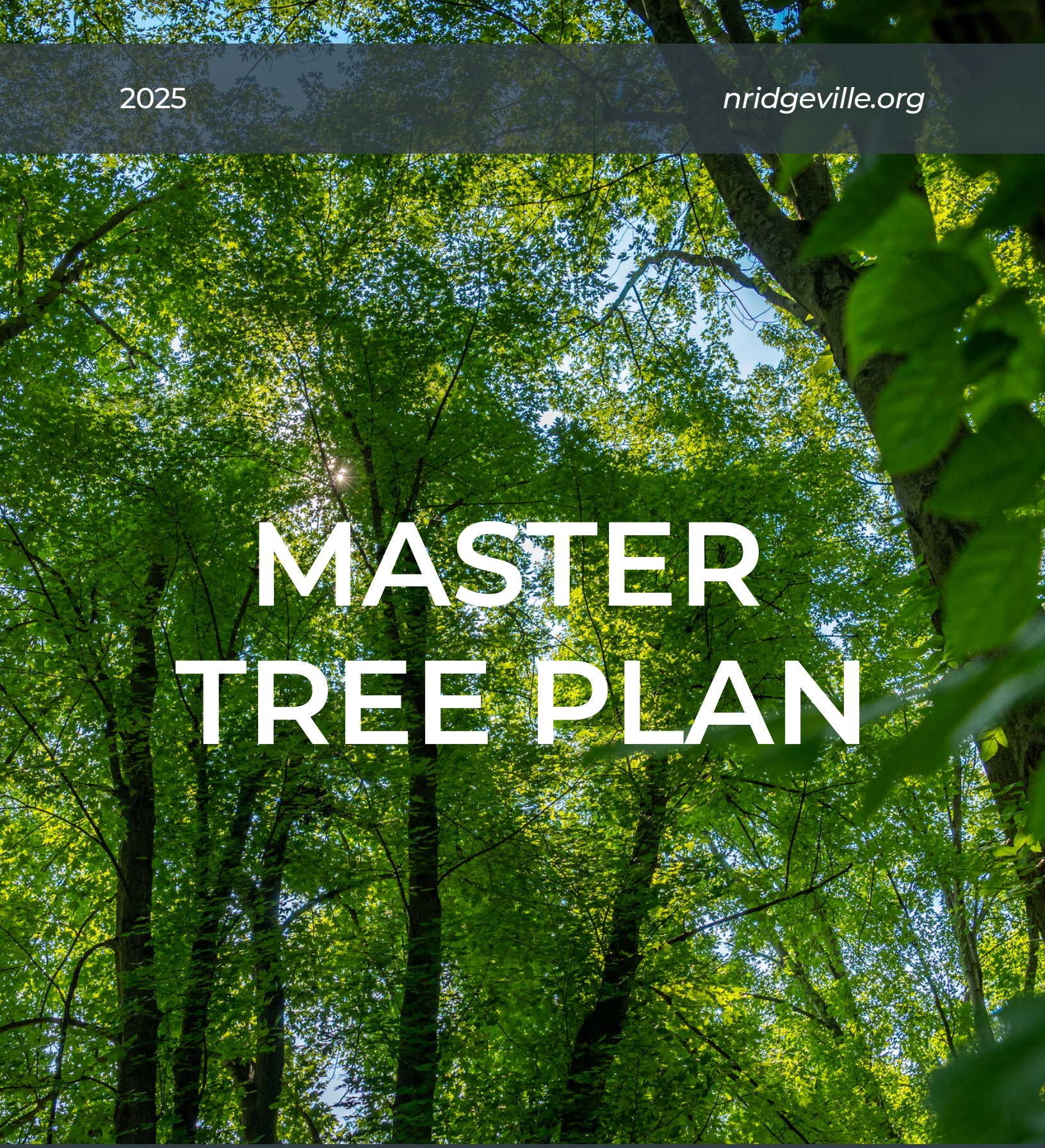
Chairman Smolik adjourned the meeting at 8:41 PM.

James Smolik
Chairman

Tina Wieber
Deputy Clerk of Council

Tuesday, June 10, 2025
Date Approved

DRAFT



MASTER TREE PLAN

CITY OF NORTH Ridgeville EST 1810

Guiding the strategic planting, preservation and management of trees in our city to enhance sustainability, resilience and quality of life

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North Ridgeville Assessment
North Ridgeville Urban Forest and Park-Specific Plans
Best Practices Documents

- Tree Quality Cue Card
- Proper Planting Instructions
- ODNR Planting Design
- Ideal Structure Cue Card
- Properly Mulched Landscapes
- Tree Protection Zone

Acknowledgements

Staff:

Ryan Thomas, City Arborist
Jon Montgomery, Director of Public Works
Kim Lieber, Director of Planning and Development
Christina Eavenson, City Engineer

Elected Officials:

Mayor Kevin Corcoran
Council President Jason Jacobs
Council Member At-Large Georgia Awig
Council Member At-Large Martin E. DeVries
Ward 1 Council Member Holly A. Swenk
Ward 2 Council Member Eric Shaffer
Ward 3 Council Member Bruce F. Abens
Ward 4 Council Member Clifford Winkel

INTRODUCTION

Street trees, as well as trees in the City's parks and other public places, help to make North Ridgeville a desirable place to live, work and visit.

The many benefits of trees that were once considered qualitative and subjective are now being scientifically quantified. The environmental benefits trees provide, such as producing oxygen and removing air pollutants, may be the most obvious. Trees can also reduce air temperatures and consequently affect air quality, since the emissions of many pollutants are temperature-dependent. Planted in the right location around buildings, trees can reduce heating and cooling energy costs. Tree canopy can also reduce storm water runoff and contribute to substantial savings in the long-term construction costs for storm water facilities. The reduction in storm water volume can help improve water quality by reducing pollutant runoff. Street trees contribute valuable wildlife habitat as well.

Trees can also be a stimulus to economic development, attracting new business and tourism. Commercial retail areas are more attractive to shoppers, apartments rent more quickly, tenants stay longer, and space in a wooded setting is more valuable to sell or rent, according to research by the National Arbor Day Foundation. For those selling their homes, healthy, mature trees can also add a property's value.

KEY CHALLENGES

The City of North Ridgeville has numerous tree-lined streets and wooded areas, in both public and private ownership. The City and its residents value the many environmental and economic benefits that trees provide. Yet as a city experiencing a rapid pace of growth in recent years, North Ridgeville faces a difficult challenge to maintain its existing tree cover and an even greater challenge to increase it. Some of the greatest challenges are described below.

DEVELOPMENT AND GROWTH PRESSURES
Development and other pressures are negatively affecting the health and longevity of the City's trees and limiting the areas in which trees can be planted. In addition to commercial and industrial projects, the significant expansion of single-family homes has resulted in the loss of trees and less space for planting new ones. Required trees are not encouraged to be planted in tree lawns due to concern with above-ground and below-ground utilities. When the required trees are planted on private property, the streetscape is negatively impacted and the City loses the ability to ensure proper care and maintenance.



CURRENT RESOURCES

Current resources and funding limit the ability of the City Arborist to provide for little more than the basic needs of the City's trees. Most staff time is spent responding to requests for service and reacting to problems or complaints of dangerous trees. Only minimum amounts of time and resources are dedicated to proactive activities designed to enhance the urban forest. Currently the City does not have a tree inventory or other tools and data needed to effectively manage the City's urban forest. There are no resources available to quantify or monitor the extent and the health of the City's tree cover. In the planting and care of trees, staff focuses almost exclusively on parks or city properties rather than street trees.

PRIVATE PROPERTY

Although there are many needs on public property, most of the City's trees are under private control, not subject to local regulations, and therefore vulnerable to inadequate management, injury and tree removal. Homeowners often take great pride in the trees on their properties, but many lack basic knowledge about the benefits of trees, the appropriate trees to plant and how to plant and care for them. Unfortunately, public education about tree maintenance and preservation is virtually nonexistent. Maintaining tree canopy on private property will be a major challenge in the years to come.

RECOMMENDATIONS

Recommendations of the Master Tree Plan are categorized into the following topics:

- Tree Planting
- Tree Care and Maintenance
- Management of the Urban Forest
- Public Education and Outreach

Based on these priority areas, goals and action items were prepared by North Ridgeville city staff. Implementation will require policy, program and budget coordination, as well as long-term and intentional funding.



TREE PLANTING

Goal: Expand the city's tree canopy along public roads, parks and in other public places.

Actions:

- Conduct a tree canopy assessment to establish a baseline measure of North Ridgeville's tree canopy coverage, which can be used to inform future policy decisions and canopy coverage goals.
- Create and maintain a comprehensive list of street trees to be recommended in future plantings including an approved tree list. Revise the list of recommended street trees every five years to reflect the successes and failures of the existing street tree population.
- Ensure a balance between tree-lined streets and safe utility and transportation corridors. Review and update regulations, as needed to ensure trees to not conflict with standards for sight distance triangles and traffic sign placement, as well as either underground or overhead utilities.
- Coordinate street tree design and selection in the development review process.
- Provide and encourage effective coordination and compliance with applicable design and development standards for each type of land use or street type associated with the establishment and maintenance of public trees.
- Consider creating a memorial tree program or similar initiative that engages the public while encouraging tree planting in public places.

TREE CARE AND MAINTENANCE

Goal: Shift from a reactive, hazard-based maintenance program to a proactive, cyclic maintenance program.

Actions:

- Conduct a comprehensive tree inventory to include all street trees. Complete identification, measurement and comprehensive health assessment of all city owned trees for the city's GIS database. Continuously update inventory to develop work history of the city's trees. Use the inventory as the basis for tree-related work scheduling.
- Follow the Best Management Practices (BMPs) for tree care. Review BMPs periodically to ensure they employ the most current industry standards.
- Maintain city street trees on a five-year cycle, in accordance with the city's established maintenance zones.
- Discourage the unnecessary removal of existing healthy trees in the design, construction or reconstruction of street projects, and other property development. Maintain clear criteria for tree removal, and implement practices to retain healthy and safe trees.
- Review construction plans and suggest changes as appropriate to protect the city's trees from construction damage. Monitor construction activity near trees.
- Mitigate hazardous trees by following the tree maintenance and removal guidelines in this plan.
- Explore new methods of repairing sidewalks using alternative materials to provide safe and shady walkways while retaining large, healthy trees.



City Arborist

MANAGEMENT OF THE URBAN FOREST

Goal: Pursue the resources necessary to effectively manage the urban forest.

Actions:

- Create and maintain a public tree inventory to collect data on planting, removal and maintenance activities. The inventory should include street trees and trees planted in other public places.
- Purchase a tablet for field use in collecting data and storing utility information to avoid planting conflicts and tracking contractor work.
- Improve staff knowledge and effectiveness by providing training to employees in arboriculture practices. Ensure necessary equipment is provided for safe and efficient operations.
- Research new funding mechanisms for the expansion and sustainability of the city's street tree program.
- Amend existing City plans and ordinances to accept the provisions of this Plan. Identify current codes and ordinances that require updating. Implement amendments following adoption or updating of this Plan.
- Evaluate budget demands for special projects. Evaluate best funding options, including capabilities of community-based partners, grant availability and comparative costs for private service contracts compared to staff costs.

PUBLIC EDUCATION AND OUTREACH

Goal: Provide community education and awareness, and encourage greater participation in tree planting and stewardship activities.

Actions:

- Promote awareness of the standards in the Master Tree Plan. Distribute Plan to City Council, all City departments, public agencies and private partners. Make the plan available to the general public.
- Meet the requirements to apply for and obtain Tree City USA designation through the Arbor Day Foundation.
- Provide residents with information on proper tree care, including planting, pruning and mulching techniques, through newsletters, social media, mailings and the city website.
- Seek opportunities to engage with the public on the topic of tree planting, care and maintenance. The City Arborist should develop materials to present to HOAs and community organizations, and can collaborate in Parks and Recreation and Senior Center programming.



PLANTING GUIDELINES

Tree planting is a major component of any city tree program. Tree species and planting location requirements are important because of the long-term impact these decisions hold. It is critical to develop an overall planting strategy, initially concentrating on areas with the greatest need for improvement. With a small amount of planning, healthy trees with greater life expectancies can be established with minimal initial investment and minor maintenance costs.

PLANTING STRATEGY

Immediately replanting trees, after dead and hazardous tree removal is considered replacement planting and is a top short-term priority. A second short-term goal is restorative planting - to fill in all immediately available plantable spots identified in this plan as funding becomes available. Areas with the greatest need for improvement and insufficient canopy coverage should be a restorative planting priority.

Once replacement and restorative plantings are completed, the City may actively search for and create additional locations for tree placement. Ideally, new tree planting in any year should exceed tree removals by a ratio of (1.5:1), and at minimum, removals and new plantings should be equal in number.

TREE SPECIES DIVERSITY

Tree species diversity in new plantings should be a primary concern. The dangers (such as disease and insect infestation) of planting monocultures have proven to be devastating throughout the United States. The goal should be to maintain species diversity throughout the city such that no one species represents more than 5%, and that no one genus comprises more than 20% of the total population. The variety of trees available and suitable for planting in the environment far exceeds what is commonly seen in developed areas. The tendency is to only plant what is immediately available from nurseries. Yet with advanced notification, several nurseries would be willing to grow many of the less commonly produced trees. Of course, such advanced planning is not always possible, so, planting palettes should incorporate both commonly available tree species and those less commonly available.



Once a popular street tree, the Callery Pear was designated by the State of Ohio as an invasive plant in 2023.

A goal of this Plan is to establish representatives of all species. To ensure this:

- A tree nursery order may be prepared in the year prior to planting, when possible.
- At least 10 trees of each species or cultivar maybe planted along North Ridgeville's streets and monitored yearly for their success.
- Experimental species may be tested in neighborhood locations throughout the city in sites appropriate to the species.

TREE SPECIES

In addition to considering site characteristics for proper planting, species-specific features should be scrutinized. A major consideration for street trees is the amount of litter dropped by mature trees. Species such as willow (Salix spp.) have weak wood and typically drop many small branches during a growing season. Others, such as American sweetgum (Liquidambar styraciflua) drop high volumes of fruits. In certain species, such as Maidenhair (Ginkgo biloba) and Osage-orange (Maclura pomifera), female trees produce offensive or large fruit; male trees, however, produce no fruit. Furthermore, a few species of trees, including Hawthorn (Crataegus spp.), may have substantial thorns. These species should be avoided in high-traffic areas.

Seasonal color should also be considered when planning tree plantings. Flowering varieties are particularly welcome in the spring, and deciduous trees that display bright colors in autumn can add a great deal of interest to surrounding landscapes.

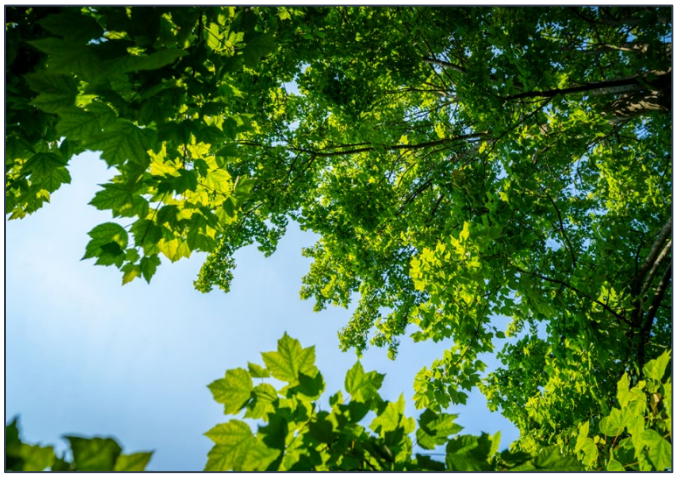
Above all, tree species should be selected for their durability and low-maintenance characteristics. These attributes are highly dependent on-site features as well as species characteristics. Matching a species to its favored climatic and soil conditions is the most important task when planning for a low-maintenance landscape, because plants that are well-matched to their environmental and site conditions are more likely to resist pathogens and insect pests, therefore requiring less maintenance overall.

Although diversity is important in a street tree population, a single-species planting of the same age provides aesthetic unity to a neighborhood or street. A goal of this Plan is to establish uniform plantings of large trees along identified major streets, while recommending a diverse mixture of species within neighborhood streets.

PLANTING PATTERNS

In situations where entire streets are planted at once, there exists the opportunity for implementing tree planting patterns. Several schemes are possible, but an alternating planting pattern of two or three species is generally the most effective and practical pattern. Where alternative species are proposed, trees should be alternated whenever possible. In locations where several planting sites exist in a row, it is preferable that trees be used with equal frequency with a minimum ratio of 1:3. If possible, a maximum of four instances of the same species should be used consecutively before changing to an alternate species.

VISUAL CHARACTERISTICS



Trees are design elements, with each tree bearing its own inherent visual characteristics. These include form, natural color and texture as well as seasonal changes such as fall color and spring flowers. Some trees are bright and lively, such as a sugar maple, while others are statelier, darker and more somber, like many native oaks.

Deciduous trees provide shade in the summer and then offer sunlight in the winter when they lose their leaves. They give a sense of the seasons and can produce spectacular autumn displays. Evergreen trees maintain their foliage throughout the year, providing year-round screening, greenery, and shelter from winds. An advantage of deciduous trees is that they renew their leaves annually, allowing them to shed foliage that has become affected by disease and pollution. Where appropriate, deciduous trees should be selected to provide solar access to properties on the south-facing, northern side of the street.

PHYSICAL CONSTRAINTS

In addition to the ecological and aesthetic criteria, it is important to consider the constraints of the tree's physical surrounding. The physical limitations of an available planting space are perhaps the most obvious determinants of tree species to be planted. Street trees will typically be planted on a planting strip, but they can also be located in medians, islands and bump-outs.

PLANTING STRIPS
A planting strip, or tree lawn, helps separate pedestrians from traffic lanes. The wider the planting strip the larger a tree can be, and the greater the buffering capacity for pedestrians. When planted in a strip large enough to accommodate the mature growth of the trees, planting strips are the ideal planting location for street trees.

MEDIANS
This planting option is particularly effective at making a very wide street more pedestrian-scaled.

ISLANDS OR BUMP-OUTS
This planting option is often preferred over planting in tree pits in more urban settings when there is adequate space for the islands. This option eliminates the tree grates and their future maintenance, while gaining valuable soil volume for the tree's roots. The problem with this option is that it can impede drainage and it makes it difficult to clean streets with a mechanical street sweeper or snowplow.

INTERIOR PROPERTY

When the curb, sidewalk and other street improvements are already installed, or if the planting strip is too narrow, the only place to plant a street tree is behind the sidewalk. Planted behind the sidewalk, the tree no longer buffers the pedestrians from the traffic lane, and it becomes more difficult to obtain the canopy effect of street trees over the roadway. However, placing the tree behind the sidewalk can potentially make more soil volume available to the roots of the tree.

UTILITY CONFLICTS

Future design of streets that increase landscape and pedestrian areas may lead to opportunities for tree planting in locations other than the existing planting strip, subject to traffic safety and parking considerations. Expanded planting strips enable tree planting away from overhead power lines, thereby reducing the substantial negative impacts of power line and tree interference.



Example of improper tree selection and placement in relationship to overhead utility lines.

The majority of North Ridgeville has overhead power lines, which has a major impact on the performance of the trees. When trees are over pruned the overall form and health of the tree is impacted. New trees under high voltage power lines need to be selected so that their mature height does not encroach on high voltage utility lines or they can be pruned using ANSI 300 standards. Species and cultivars that at mature height do not exceed 25 feet are recommended especially on streets where the width is less than 36 feet.

Tree selection should also take into account the impact on street lighting, as trees can significantly impact the level of lighting—and therefore safety—in the street. The presence of underground services restricts the space available for tree roots, which is a particular consideration when the tree is planted.

DESIGN GUIDELINES

The compositional elements of the developed landscape are buildings, pavement, and introduced plants. Trees serve as landmarks, pinpointing or emphasizing locations. Trees can also reinforce the importance of streets relative to their size and scale; other trees can humanize the scale of parking lots and shopping centers. The question of what trees to plant in this developed landscape becomes an issue of design.

Tree planting situations in North Ridgeville fall into four broad categories: Street trees for primary access roads, street trees for developments and neighborhoods, trees for parking areas

and trees in parks. Each situation has its own design determinants from which criteria for tree selection can be developed.

STREET TREES FOR PRIMARY ACCESS ROADS
The principal design requirements for street trees relate to scale, reinforcement of street unity, and shade. On wide streets, trees should be large in scale so that they will occupy a large volume and balance the scale of the street. Small scaled trees would not make a sufficient visual impact on such a street. Trees placed closely together (25 to 35 feet) also unify the streetscape by giving it reinforced form and character. Each major street might be treated a little differently, but schemes adopted should echo the historic planting character of North Ridgeville, including both mixed and unified plantings.

STREET TREES FOR DEVELOPMENTS AND NEIGHBORHOODS
These spaces are small in scale and are related to the slow pace of walking. Close observation of detail is important in small spaces. Interesting shadow patterns on pavement, seasonal color and sculptural form are desirable elements in tree selection here. Trees should generally be planted closely together, but the apparent size of a small space can be manipulated through varied tree spacing. Trees for these spaces still need to adhere by the height clearance for sidewalks and traffic clearance, and intersection vision should always be considered before planting.

TREES FOR PARKING AREAS
Unshaded parking lots can be characterized as miniature heat islands and sources of motor vehicle pollutants. Tree canopies can cool these hot spots by direct shading of the ground surface and indirectly by the transpiration of water through leaves. Not only do canopy cover provisions reduce pollution and surface temperatures, they also make the lot more inviting, thereby improving the business climate. It is often observed that in hot weather, shaded parking spaces will generally be filled first, even if one must walk further. Generally, North Ridgeville's parking lots are void of large canopy trees.

Modifying North Ridgeville's city ordinance to specify minimum canopy coverage over parking lots would make a dramatic improvement in future parking lots. Provisions to ensure this coverage is maintained should also be included.

Trees for parking areas fall into three basic use categories: trees for shade, definition and screening.

- Shade trees should have a rounded, high-branched form and grow relatively quickly to cast a broad shadow. Low-branching, conical trees, particularly conifers, should be avoided in the active parking area.
- Definition, or delineator, trees are used to guide traffic, highlight entrances, terminate vistas, and indicate ends of parking bays. As such, they should be taller and more erect (pyramidal or ovoid forms) than the shade trees used.
- Screening trees may be smaller in size than shade or delineator trees. Both round and erect forms are appropriate. Low branching is important if sufficient planting space is available. Evergreen trees afford year-round screening; however, higher branching trees can be effectively used if they are combined with low shrubs.

TREES IN PARKS

The preservation of current trees and planting of new trees in our parks should be a priority. Parks are emerging as important public health solutions in developed communities. Nearly 40 years of research evidence confirms that nearby nature, including parks, gardens, the urban forest and green spaces, support human health and wellness. The research about active living and opportunities to avoid chronic diseases (such as diabetes, heart disease and respiratory problems) is particularly relevant to large parks where people can enjoy walking and bike paths, and playing fields. But, equally as important is the role of small parks and nature spaces for health.



South Central Park

RECOMMENDED TREES

After Dutch Elm Disease laid waste to the urban forest in the 1970s, cities and homeowners made the mistake of eagerly planting a very limited number of tree species. They filled our neighborhoods with the fastest growing trees they could find – silver maple (Acer saccharum) and green ash (Fraxinus Pennsylvania) were the two most popular. The ash was such a popular tree that some nurseries tree stock included over 40% ash trees. Many developments were over 30-40% ash trees. This laid the foundation for the devastating effect Emerald Ash Borer would have. Cities now advocate for new plantings to follow the 30/20/10 rule. The goal is for the local tree canopy to not include more than 30% of any give plant family, 20% of any given plant species and not more than 10% of any variety.

Common tree families include Rosaceae–the Rose Family (crab apple, serviceberry, mountain ash, fruit trees), Aceraceae (maples), Quercus (oaks), Gleditsia (honey locust). Unfortunately, the mistakes of the past are being repeated. The number of crabapple and pear trees and Silver Maples in North Ridgeville is vast. The city should require trees from less represented plant families and genera when possible. Trees in the pea family are good (Amur maackia, red bud, Kentucky coffee). But how about the Adoxeae family (Nannyberry viburnum) or Rosaceae (wafer ash) or Sapindaceae (buckeye)? Focusing on diversity when selecting trees is important to the Urban Forest.

The following is a list of recommended plantings, subject to change.

- **JAPANESE ZELKOVA: ZELKOVA SERRATA**
- **LITTLE LEAF LINDEN: TILIA CORDATA**
- **BLAD CYPRESS “SHAWNEE BRAVE”**
- **EUROPEAN HORNBEAM CARPINUS BETULUS “FASTIGIATA”**
- **MAPLE: ACER CAMPESTRE “QUEEN ELIZABETH” HEDGE MAPLE, ARMSTRONG MAPLE**
- **LOCUST: GLEDITSIA TRICANTHOS VAR. INERMIS “SHADEMASTER THORNLESS HONEY LOCUST**
- **CHINESE ELM: ULMUS PARVIFOLIA “DRAKE”**
- **OAK: QUERCUS STELLATA: POST OAK, MAPROCARPA: BUR OAK**
- **AMUR MAACKIA: MAACKIA AMURENSIS**
- **GINGKO: CHASE MANHATTAN, GOLDSPIRE**
- **RED BUD: EASTERN REDBUD, ALBA, FOREST PANSY, WHITE BUD**
- **DOG WOOD: COMUS KOUSA ‘KOUSA’, CUYOHOGA GREY**



Little Leaf Linden

PROHIBITED PLANTS

In order to protect native plant species and thwart the growth of invasive plant species, the Ohio Department of Agriculture has declared the plants listed below as invasive plants. As such, these plants are prohibited and shall not be approved for planting in North Ridgeville.

1. *Ailanthus altissima,* tree of heaven
2. *Alliaria petiolata,* garlic mustard
3. *Ampelopsis brevipedunculata,* porcelainberry
4. *Azolla pinnata,* Pinnate mosquitofern
5. *Berberis vulgaris,* common barberry
6. *Butomus umbellatus,* flowering rush
7. *Celastrus orbiculatus,* Asian bittersweet
8. *Centaurea stoebe ssp. micranthos,* spotted knapweed
9. *Dipsacus fullonum,* common teasel
10. *Dipsacus laciniatus,* cutleaf teasel
11. *Egeria densa,* Brazilian waterweed
12. *Eichhornia azurea,* anchored water hyacinth
13. *Elaeagnus angustifolia,* Russian olive
14. *Elaeagnus umbellata,* autumn olive
15. *Epilobium hirsutum;* hairy willowherb
16. *Fallopia japonica,* Japanese knotweed
17. *Ficaria verna,* lesser celandine
18. *Heracleum mantegazzianum,* giant hogweed
19. *Hesperis matronlis,* dames rocket
20. *Hydrilla verticillata,* hydrilla
21. *Hydrocharis morsus-ranae,* European frogbit
22. *Hygrophila polysperma,* Indian swampweed
23. *Iris pseudacorus,* yellow flag iris
24. *Lagarosiphon major,* African oxygen weed
25. *Ligustrum vulgare,* common privet
26. *Limnophila sessiliflora,* Asian marshweed
27. *Lonicera japonica,* Japanese honeysuckle
28. *Lonicera maackii,* Amur honeysuckle
29. *Lonicera morrowii,* Morrow's honeysuckle
30. *Lonicera tatarica,* Tatarian honeysuckle
31. *Lythrum salicaria,* purple loosestrife
32. *Lythrum virgatum,* European wand loosestrife
33. *Marsilea guadrifolia,* European water-clover
34. *Microstegium vimineum,* Japanese stiltgrass
35. *Monochoria hastata,* arrowleaf false pickerelweed
36. *Monochoria vaginalis,* heartshape false pickerelweed
37. *Morus alba,* white mulberry
38. *Myriophyllum aquaticum,* parrot feather watermilfoil
39. *Myriophyllum spicatum,* Eurasian watermilfoil
40. *Najas minor,* brittle waternymph

41. *Nymphoides peltata,* yellow floating heart
42. *Ottelia alismoides,* duck lettuce
43. *Paulownia tomentosa,* princess tree
44. *Persicaria perfoliata,* mile-a-minute
45. *Phalaris arundinacea,* reed canary grass
46. *Phragmites australis ssp. australis,* common reed
47. *Pistia stratiotes,* water lettuce
48. *Potamogeton crispus,* curly pondweed
49. *Pueraria montana var. lobata,* kudzu
50. *Pyrus calleryana,* Callery pear
51. *Rhamnus cathartica,* European buckthorn
52. *Rosa multiflora,* multiflora rose
53. *Sagittaria sagittifolia,* arrowhead
54. *Salix fragilis,* crack willow
55. *Salvinia minima,* common salvinia
56. *Salvinia molesta,* giant salvinia
57. *Sparganium erectum,* simple bur-reed
58. *Stratiotes aloides,* water soldier
59. *Trapa natans,* water chestnut
60. *Typha angustifolia,* narrowleaf cattail
61. *Typha x glauca,* hybrid cattail
62. *Ulmus pumila,* Siberian elm
63. *Vincetoxicum nigrum,* black swallowwort

GLOSSARY

When the following words and phrases are used in this plan, they shall have the following meanings unless a different meaning is clearly required by the context:

Associated Vegetation shall mean native or non-native shrubs and ground covers within city parks, rights-of-ways and open spaces.

City shall mean the government of North Ridgeville.

City Arborist shall mean the City employee who is a current certified arborist by the International Society of Arboriculture and is responsible for administering and enforcing the provisions of this chapter.

High Risk Tree shall mean any public tree rated as such by the City Arborist according to the tree risk evaluation standards established by the International Society of Arboriculture.

Maintain or Maintenance shall mean the entire care of trees within City rights-of-ways and open spaces, as well as the preparation of ground, fertilizing, mulching, planting, disease and insect control, trimming, pruning, staking, root control, watering, leaf litter, weed removal and removal of dead and dying trees.

Master Tree Plan shall mean a document adopted by North Ridgeville that presents tree inventories, maintenance recommendations, recommended approved tree lists, a master design plan for street tree plantings and urban forestry program goals.

City Trees shall mean all trees and woody plants within public rights-of-ways.

Planting shall mean to install public trees permanently in the ground.

Planting Strip shall mean the area available for planting including the street curbs, the edge of the traveled portion of roadway and the property line.

Property Owner shall mean the person owning such property as shown by the records of the Auditor's Office of Lorain County, Ohio.

Pruning shall mean cutting or removing any part of the branching structure of a plant in either the crown, trunk and/or root areas.

Removal shall mean removal of a tree within City rights-of-way and open spaces.

North Ridgeville Canopy Cover

Green = High Canopy Density, Low Planting Priority
Red = Low Canopy Coverage, High Planting Priority
Yellow = Medium Canopy Coverage, Medium Planting Priority



OurTrees Benefits



Trees in North Ridgeville, OH

Serving Size:
24.56% tree canopy on 3,684 acres
17.01% impervious surfaces over 2,552 acres
Total benefits for this year:$1,280,085

Annual values:

Carbon Dioxide Uptake$418,180

Carbon Sequestered
2,452 tn

CO_2 Equivalent[1]
8,990 tn

Storm Water Mitigation$376,119

Runoff Avoided
42 MG/yr

Rainfall Intercepted
298 MG/yr

Air Pollution Removal$485,786

Carbon Monoxide
2,266 lb/yr

Ozone
166,134 lb/yr

Nitrogen Dioxide
11,132 lb/yr

Sulfur Dioxide
7,036 lb/yr

$PM_{2.5}$
8,459 lb/yr

Values are totals to date:

Carbon Dioxide Uptake$29,379,720

OurTrees Scorecard



Tree Canopy in North Ridgeville, OH

Room for Trees:

- Existing canopy: 3,684 acres
- Plantable space: 8,854 acres

A 10% increase in canopy area, 3,684 acres to 4,053 acres, would add $86,191 in tree benefits to your community.

This increase would include the storage of an additional 17,226 tons of carbon, 4,209,027 more gallons of avoided storm water runoff, and the removal of an extra 22,374 pounds of air pollution.

Canopy comparison against nearby census places:

1. Avon: 29.55%
2. Elyria: 21.68%
3. **North Ridgeville: 24.56%**
4. Sheffield: 43.92%
5. Eaton Estates: 33.48%
6. Olmsted Falls: 45.38%
7. Lorain: 21.81%
8. Grafton: 16.73%
9. North Olmsted: 41.71%
10. Westlake: 40.82%

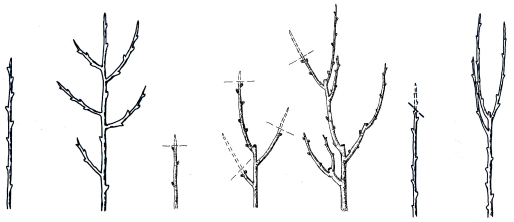
Benefit estimates are based on USDA Forest Service research and are meant for guidance only. Visit www.itreetools.org to learn more. Get even more information at i-Tree Landscape!

OurTrees 1.11.0
Powered by i-Tree Landscape

Tree Quality Cue Card

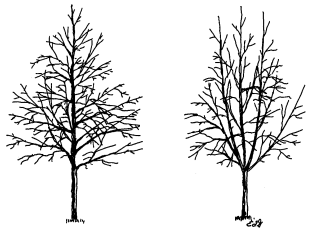
Shade trees that grow to be large should have one relatively straight central leader. Heading the tree is acceptable provided the central leader is retrained.

Desirable Desirable Not desirable



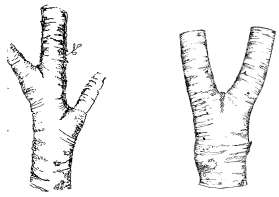
Main branches should be well distributed along the central leader, not clustered together. They should form a balanced crown appropriate for the cultivar or species.

Desirable Not desirable



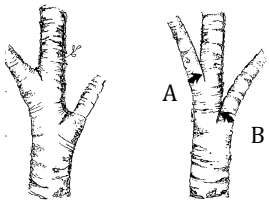
The diameter of branches that grow from the central leader, or trunk, should be no larger than two-thirds (one-half is preferred) the diameter of the trunk measured just above the branch.

Desirable Not desirable



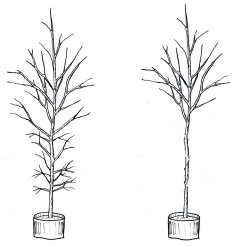
The largest branches should be free of bark that extends into the branch union, known as included bark (see A and B).

Desirable Not desirable



Temporary branches particularly on trees less than 1 inch caliper should be present along the lower trunk below the lowest main branch. These branches should be no larger than 3/8 inch in diameter.

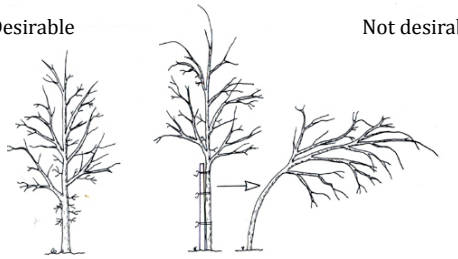
Desirable Not desirable



The trunk should be free of wounds, sunburned areas, conks (fungal fruiting bodies), wood cracks, bleeding areas, signs of boring insects, cankers, or lesions. Properly made recent pruning cuts are acceptable.

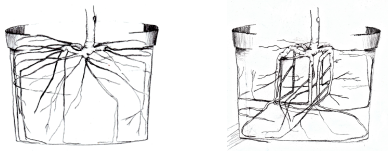
The trunk caliper (thickness) and taper should be sufficient so that the tree remains vertical without a stake.

Desirable Not desirable



The root collar (the uppermost roots) should be within the upper 2 inches of the soil media (substrate). The root collar and the inside portion of the root ball should be free of defects, including circling, kinked, and stem girdling roots. You may need to remove soil near the root collar to inspect for root defects.

Desirable Not desirable



The tree should be well rooted in the soil media. Roots should be uniformly distributed throughout the container. The tree's structure and growth should be appropriate for the species or cultivar. When the container is removed, the root ball should remain intact. When the trunk is lifted, both the trunk and root system should move as one.

The root ball should be moist throughout at the time of inspection and delivery. The roots should show no signs of excess soil moisture as indicated by poor root growth, root discoloration, distortion, death, or foul odor. The crown should show no signs of moisture stress as indicated by wilted, shriveled, or dead leaves or branch dieback.

Copyright © 2010 Edward F. Gilman and Brian Kempf www.urbantree.org

Planting Guidelines

General: Trees must be a minimum of 2” caliper and follow ANSI A300 standards.

2.1 Balled & Burlapped Trees:

- Remove excess soil, twine, and at least 3/4 of burlap from root collar.
- Dig hole 2-3 times wider than root ball.
- Remove wire basket before planting; ensure root collar is at or within 2” above grade.

2.2 Containerized/Grow Bag Trees:

- Expose root collar; dig hole at least 3x wider than root ball.
- Address encircling roots before placing tree.

2.3 Bare Root Trees:

- Dig hole 2x wider than root ball.
- Spread roots over soil mound; ensure tree is straight.

2.4 Finishing:

- Prune girdling roots; keep tree upright.
- Backfill with unamended soil; use compost if soil is compacted.
- Mulch ring circumference of drip line; Mulch 2-4” deep, leaving 3” around trunk mulch-free.
- Water 5 gallons per caliper inch + 5 gallons.

3.0 Staking Trees

- Use only for excessive winds or unstable trees.
- Tree straps recommended; remove after 6 months.

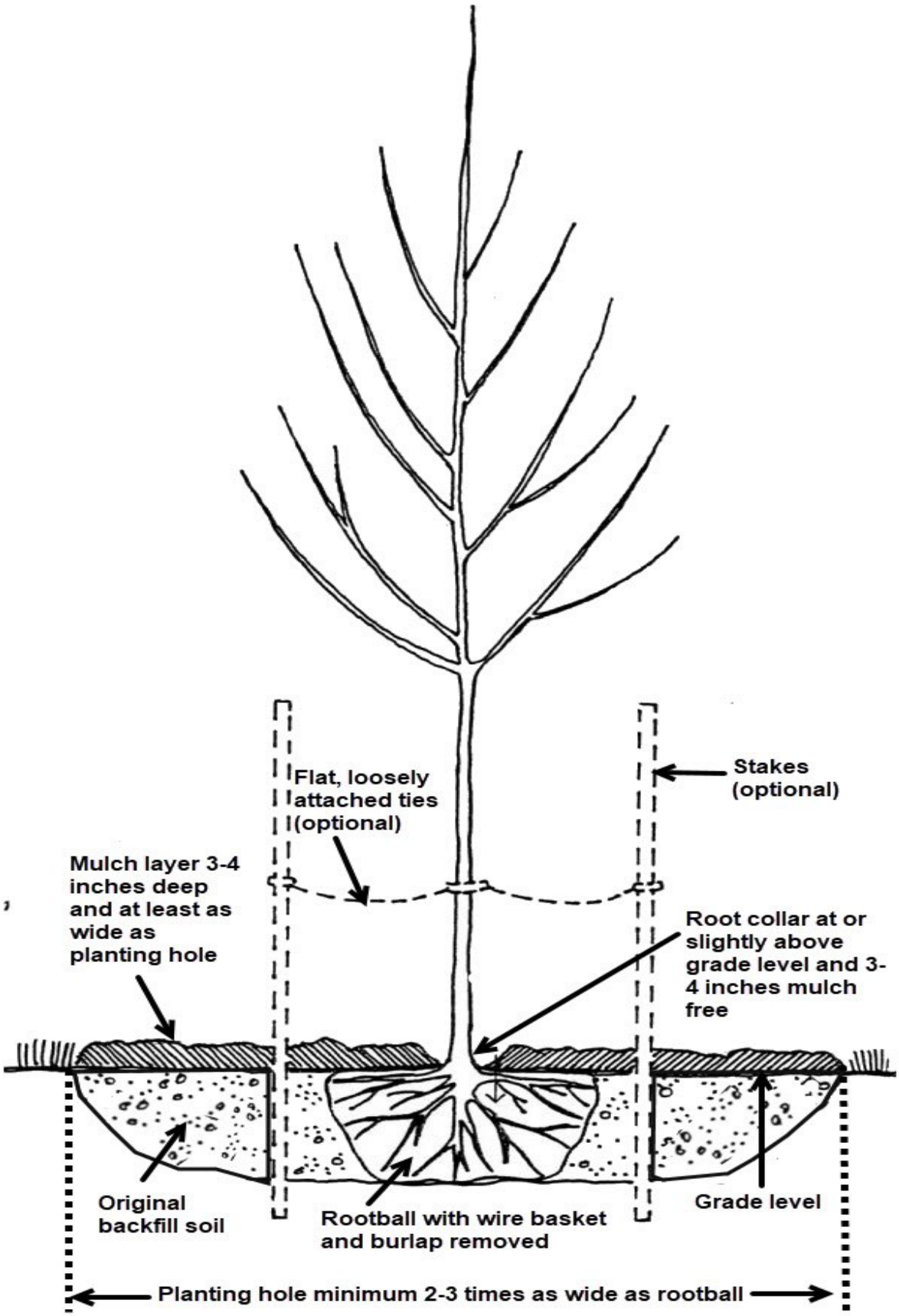
4.0 Planting on Slopes

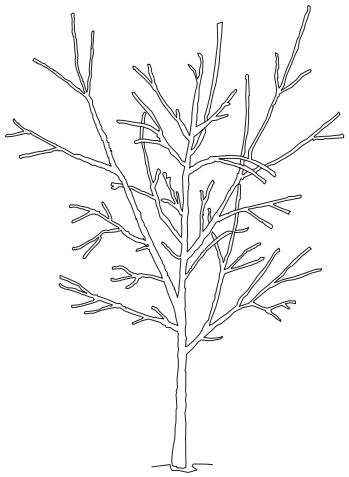
- Position root collar uphill at or within 2” above grade.
- Use excavated soil to cover exposed root ball.

5.0 Planting Aftercare

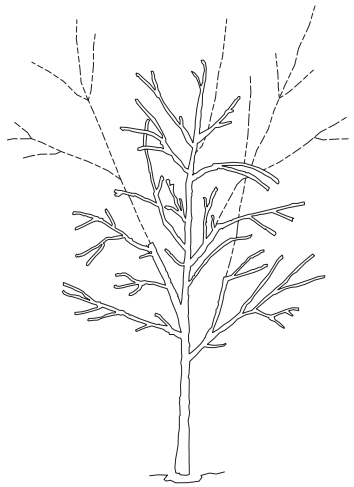
5.1 Watering:

- Weekly from April 1 – October 31 (adjust for weather).
- Deep soak at mulch ring; avoid trunk/leaves.

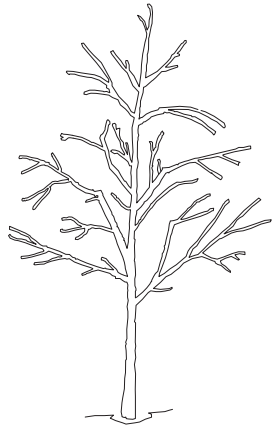

Flat, loosely attached ties (optional)
Stakes (optional)
Mulch layer 3-4 inches deep and at least as wide as planting hole
Root collar at or slightly above grade level and 3-4 inches mulch free
Original backfill soil
Rootball with wire basket and burlap removed
Grade level
Planting hole minimum 2-3 times as wide as rootball



Before planting, tree has three codominant stems. The two that compete with the one in the center should be pruned to supress their growth.



Two competing stems were reduced substantially, in this case remvoing about 70% of their foilage using reduction cuts.



After pruning, tree has only one dominant stem.

Notes:
1- All trees shown are rejectable unless they undergo recommended treatment.
2- Tree shall meet crown observation detail following correction.

S-X

CROWN CORRECTION DETAIL

URBAN TREE FOUNDATION © 2014
OPEN SOURCE FREE TO USE

Properly Mulched Landscapes

Properly mulched landscapes offer many benefits, such as maintaining soil moisture, controlling weeds, insulates from severe weather, reduces damage from lawn equipment, aerates soil and provides beds with a uniform, well-cared for appearance.



Excessive mulch can lead to moisture in the root zone causing root rot and stress. Piling mulch against the trunk leads to insect, rodent and disease infestations, which result in trunk girdling. Certain types of mulch alter soil PH levels. And, mulch that becomes too deep or matted will become anaerobic (sour); emitting pungent odors and allowing organic acids to build up in the soil (toxic to young plants).

Before obtaining mulch, calculate the correct quantity needed by following the guidelines below:

For a Square or Rectangular Area

Measure the area to determine the square footage by multiplying the length by the width. For example, an area that is 30 feet long and 20 feet wide (30x20) will be 600 square feet (sq.ft.).

Next, multiply 600 sq. ft. by the anticipated depth of the mulch layer. If the depth is to be 2" deep, the calculation would be 600 x 2 which equals 1,200 sq. ft. Convert 1,200 sq. ft. to cubic yards 9 by dividing by 324 (the number of square feet in a cubic yard). Thus, 1,200 divided by 324 equals 3.7037037, or rounded up results in 4 cubic yards.

For a Triangular Area

Obtain the square footage of a triangular area, which has one short side and two longer sides. Multiply the base (short side) by the height (the longer of the two other sides), then divide by 2. Thus, if the triangle's base is 9 feet wide and the sides are 12 and 15 feet long, multiply 9 by 15, which is 135. Divide 135 by 2, which equals 67.5 sq. ft.

Next, multiply 67.5 by the anticipated depth of the mulch layer; say 3". Which is 202.5 sq. ft. Convert 202.5 sq. ft. to cubic yards by dividing by 324, which is .623 (point 623) cubic yards.

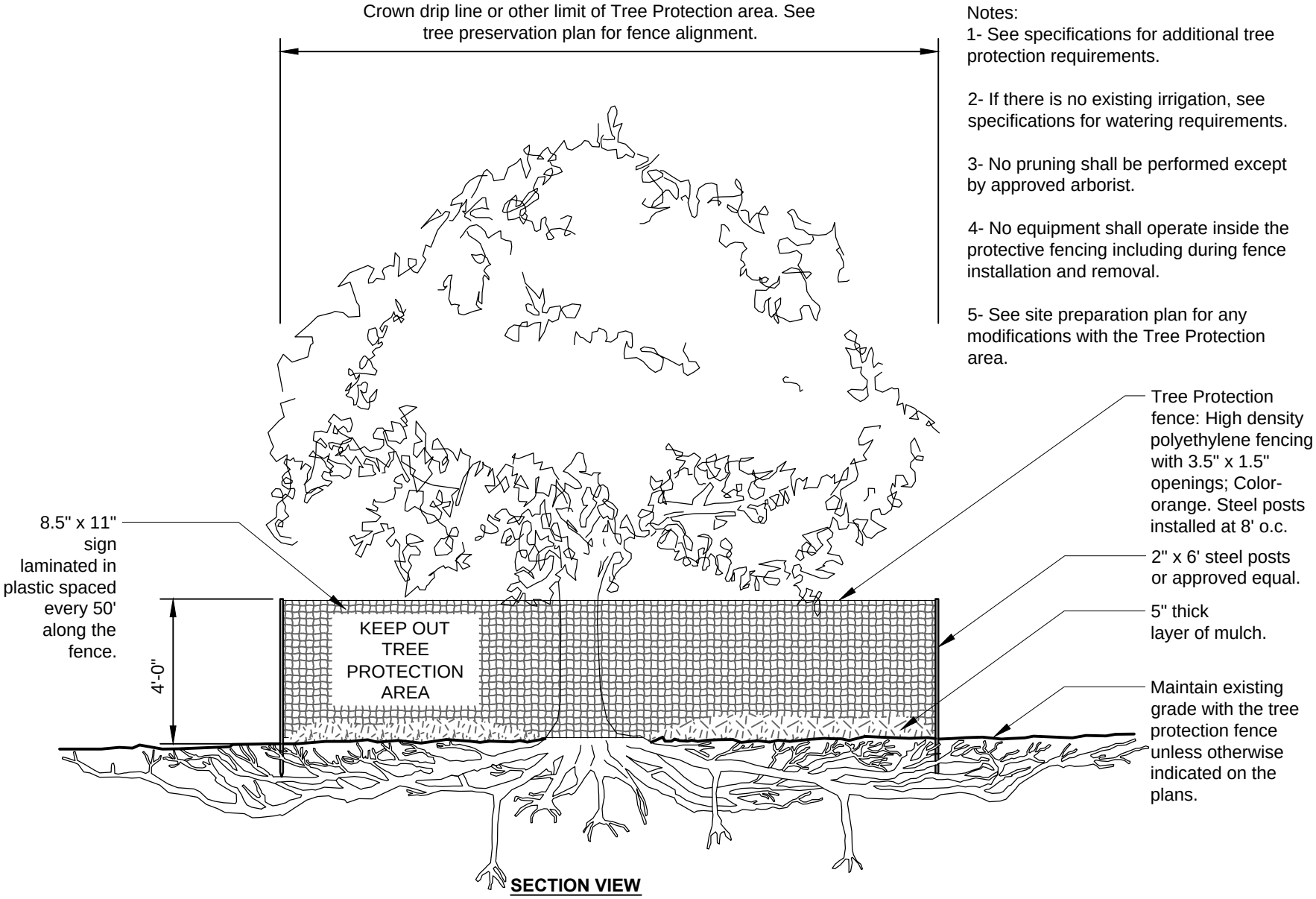
For a Circular Area

Determine the square footage by measuring from the center of the circle to the outside of the circle to get the radius and then multiply the radius by itself. For example, if the circle's radius is 9, multiply 9 by 9 to get 81. Now multiply 81 by pi (3.14), which equals 254.34 sq. ft.

Next, multiply 254.34 by the anticipated depth of the mulch layer; say 4". Which equals 1,017.36 sq. ft. Convert 1,017.26 sq. ft. to cubic yards by dividing by 324; which is 3.14 cubic yards.

https://www.landscapecalculator.com/calculators/mulch

Submitted by: Ryan Thomas, City Arborist, North Ridgeville



SECTION VIEW

Notes:
1- See specifications for additional tree protection requirements.

2- If there is no existing irrigation, see specifications for watering requirements.

3- No pruning shall be performed except by approved arborist.

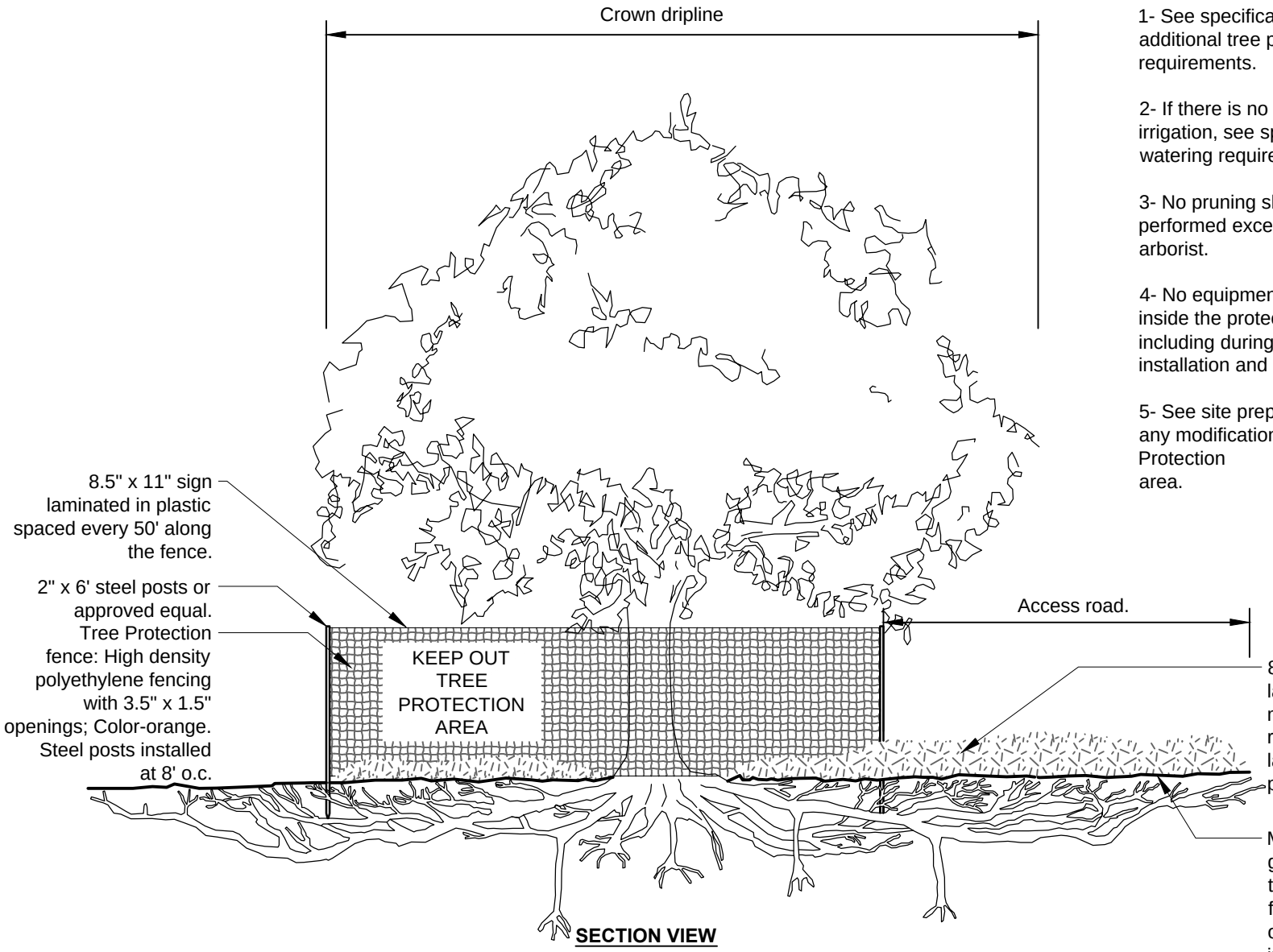
4- No equipment shall operate inside the protective fencing including during fence installation and removal.

5- See site preparation plan for any modifications with the Tree Protection area.

S-X

TREE PROTECTION

URBAN TREE FOUNDATION © 2014
OPEN SOURCE FREE TO USE



Notes:
1- See specifications for additional tree protection requirements.

2- If there is no existing irrigation, see specifications for watering requirements.

3- No pruning shall be performed except by approved arborist.

4- No equipment shall operate inside the protective fencing including during fence installation and removal.

5- See site preparation plan for any modifications with the Tree Protection
area.

S-X

TREE PROTECTION - MAINTENANCE ROAD

URBAN TREE FOUNDATION © 2014
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Zoning Amendment & Rezoning Application

CITY OF NORTH Ridgeville EST 1810

SUBMITTAL INSTRUCTIONS AND PROCEDURES

Reviews for proposed zoning amendments, including any rezoning of property or zoning code text amendments, will be carried out according to the process described in Chapter 1246 of the City's Zoning Code.

- Pre-Application. Prior to making application, applicants are recommended to contact the city to discuss the proposed rezoning or text amendment.
- Application Submittal. Following the pre-application meeting, the applicant shall submit this completed application, $400 fee and ten (10) sets of all required exhibits. All submissions shall be made in hard copy to the Building Division.
- Staff Review. The applicant shall attend a staff review meeting and may be required to provide additional information based upon staff comments.
- Referral. Following staff review, complete applications shall be forwarded to the Law Director to be prepared in ordinance form for introduction to Council. The ordinance will be subject to Planning Commission review and public hearing prior to any action by Council.

PROPERTY INFORMATION

07-00-024-101-109
Parcel number(s)

35600 Lorain Road — I2
Location address — Current zoning

R1
Proposed zoning

APPLICANT/AGENT INFORMATION

Harvest Ridge Church / Assembly of God
Name/Company

35600 Lorain Road North Ridgeville Oh 44039
Applicant address

440.327.0024 — marow@harvestridge.net
Applicant phone — Applicant email

PROPERTY OWNER INFORMATION

Harvest Ridge Church / Assembly of God
Name/Company

35600 Lorain Road, North Ridgeville Oh 44039
Property owner address

440.327.0024 — marow@harvestridge.net
Property owner phone — Property owner email

AUTHORIZATION AND ACKNOWLEDGEMENT

Applicant signature — Property owner signature

I hereby authorize the City of North Ridgeville, including Planning Commission members, to view the premises and consent to their entry onto the property for the purpose of observing site conditions related to review of my application.

Staff Use Only	PPZ No.	Date Received	Amount Paid	Payment Type
	PPZ2025-	RECEIVED	$400.00	credit card

MAY 13 2025
RECEIVED MAY 12 2025

Planning Review

May 19, 2025

Project:	Harvest Ridge Church/Dobie Pallets Rezoning
Location:	35544 and 35600 Lorain Road
PPNs:	07-00-024-101-101, -109
District:	R-1 Residence District/I-2 Light Industrial District

Harvest Ridge Church has interest in acquiring property to the immediate east of their current location at 35600 Lorain Road. The property in question, 35544 Lorain Road (Dobie Pallets), is entirely zoned I-2 Light Industrial District. Ultimately, the church intends to construct an addition that would be located on the site of its current parking lot. The Dobie site would be used for a new paved parking lot and green space. In the short term, the church would like to raze the building and use the existing site less formally for parking and green space.

Harvest Ridge Church was first approved by Planning Commission in 1996. According to the city's zoning map, the property at 35600 Lorain Road is split zoned R-1 Residence District and I-2 Light Industrial District. While the majority of the property is zoned residential, a triangular piece abutting the east property line is zoned industrial. The building and site improvements straddle this zoning line.

Churches are permitted in the R-1 Residence District and most other residential and business districts. Churches, however, are not permitted in industrial districts. While the 1996 Planning Commission minutes acknowledge the split zoning, it is not clear from the minutes or other records on file how city officials reconciled the proposal in light of the split zoning.

In order for Harvest Ridge Church to accomplish their long-term expansion plan, the property at 35544 Lorain Road will need to be rezoned from I-2 to R-1. Also, to clean up the existing site from a zoning perspective, it is recommended that the I-2 portion of 35600 Lorain Road be similarly rezoned to R-1.

The master plan recognizes Harvest Ridge Church on Lorain Road as "civic" or semi-public use and also the property to the east as "employment center" use. While it may be argued that employment zones should be preserved for economic development, the petitions to rezone the portion of Harvest Ridge Church and neighboring Dobie Pallets have practical applications:

- Rezoning the portion of Harvest Ridge Church corrects an unintended nonconformity, making the church building and its site improvements entirely a legal, conforming use on its current property.
- The Harvest Ridge Church property is bisected by SR 10. More than 20 acres of its 28.38 acres of land is on the north side of the highway, effectively separated from the church campus and unusable for expansion at the current site. Expansion to the east is the most logical approach.
- A church use is not incompatible with existing land use condition of surrounding properties in this area of Lorain Road which is mainly residential. Further, the rezoning would not prevent abutting industrially zoned properties from developing as zoned.

Zoning Amendments and Rezoning Requests
APPLICANT GUIDE

INITIATION
Zoning amendments, including any rezoning of property or zoning code text amendments, may be initiated by any property owner or their authorized agent. Reviews will be carried out according to the process described in Chapter 1246 of the City's Zoning Code. Any request for rezoning involving multiple family dwellings must meet the requirements of Section 9.7 of the North Ridgeville Charter and is subject to mandatory referral to the electors.

APPLICATION REQUIREMENTS
Along with the completed application and $400 fee, the applicant shall submit the following required exhibits based on type of request.

Zoning Map Amendment
(a) A plat of the property drawn to scale with dimensions;
(b) A map showing the location of the property within the city;
(c) A legal description of the property;
(d) The name(s) of all property owners within the area proposed to be rezoned; and
(e) A statement of the applicant's rationale for the proposed rezoning including existing and proposed zoning classifications.

Zoning Text Amendment
(a) Proposed text amendment; and
(b) A statement of the applicant's rationale for the proposed text amendment.

Any complete application shall be forwarded to the Law Director to be prepared in ordinance form for introduction in Council.

CONSIDERATION BY PLANNING COMMISSION
The Planning Commission shall consider any amendment referred to it by Council and shall act upon the matter within sixty days from the date of referral. If the Planning Commission fails to act within the time allotted, it shall be deemed to have approved the request. The Commission is required to give public notice not less than ten days in advance of a meeting. Applicants and owners are required to attend the meeting where their application is considered.

PUBLIC HEARING
Once Planning Commission has taken action, Council shall establish a date for a public hearing. The Clerk of Council is required to give public notice not less than ten days in advance of the hearing. Notice of any such public hearing must be published in a local newspaper and be sent by first class mail to all property owners within 500 feet of the perimeter of any area proposed to be rezoned.

ACTION BY COUNCIL
Council may adopt the proposed ordinance by vote of a majority of Council members eligible to vote, provided that the proposed ordinance received approval by the Planning Commission. If the proposed ordinance was disapproved by the Planning Commission, it can only be adopted if it receives the vote of two-thirds of all members of Council.

Zoning Amendment & Rezoning Application

CITY OF NORTH Ridgeville EST 1810

SUBMITTAL INSTRUCTIONS AND PROCEDURES

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PROPERTY INFORMATION

07000241011101
Parcel number(s)

35544 LORAIN RD
Location address

I2
Current zoning

R1
Proposed zoning

APPLICANT/AGENT INFORMATION

HARVEST RIDGE CHURCH / ASSEMBLY OF GOD
Name/Company

35600 LORAIN RD NORTH RIDGEVILLE OH 44039
Applicant address

440-327-0024
Applicant phone

mcrow@harvestridge.net
Applicant email

PROPERTY OWNER INFORMATION

MICHAEL MOYES / DOBIE PALMER
Name/Company

35544 LORAIN ROAD, NORTH RIDGEVILLE, OH 44039
Property owner address

440.327.2255
Property owner phone

dobiepalmer@gmail.com
Property owner email

AUTHORIZATION AND ACKNOWLEDGEMENT

Applicant signature

Property owner signature

I hereby authorize the City of North Ridgeville, including Planning Commission members, to view the premises and consent to their entry onto the property for the purpose of observing site conditions related to review of my application.

Staff Use Only	PPZ No.	Date Received	Amount Paid	Payment Type

RECEIVED MAY 12 2025

Zoning Amendments and Rezoning Requests
APPLICANT GUIDE

INITIATION
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(a) Proposed text amendment; and
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ACTION BY COUNCIL
Council may adopt the proposed ordinance by vote of a majority of Council members eligible to vote, provided that the proposed ordinance received approval by the Planning Commission. If the proposed ordinance was disapproved by the Planning Commission, it can only be adopted if it receives the vote of two-thirds of all members of Council.

DATE:	May 19, 2025	1ST READING:	May 19, 2025
INTRODUCED BY:	Petition	2ND READING:	
REFERRED BY:		3RD READING:	
		ADOPTED:	
		EMERGENCY:	N/A

ORDINANCE NO. 2025-79

AN ORDINANCE AMENDING THE ZONING MAP OF THE CITY OF NORTH RIDGEVILLE SUCH THAT PERMANENT PARCEL NUMBER 07-00-024-101-101 LOCATED AT 35544 LORAIN ROAD THAT IS CURRENTLY ZONED I-2 LIGHT INDUSTRIAL DISTRICT AND THE PORTION OF PERMANENT PARCEL NUMBER 07-00-024-101-109 LOCATED AT 35600 LORAIN ROAD THAT IS CURRENTLY ZONED I-2 LIGHT INDUSTRIAL DISTRICT BE REZONED TO R-1 RESIDENCE DISTRICT.

WHEREAS, by the present and official Zoning Map of the City of North Ridgeville, PPN 07-00-024-101-101 is zoned I-2 Light Industrial District and PPN 07-00-024-101-109 is split zoned, such that the eastern portion of property is presently zoned I-2 Light Industrial District and the remainder of the property is zoned R-1 Residence District; and

WHEREAS, the subject properties, as described in the attached **Exhibit A** are owned by Michael Moyes and Harvest Ridge Assembly of God, respectively, who have filed a petition to rezone the the property to R-1 Residence District for future use by Harvest Ridge Church; and

WHEREAS, the North Ridgeville Planning Commission carefully considered the proposed amendment at their meeting of _____ and by formal motion recommended that the ordinance be (approved/not approved); and

WHEREAS, following publication of newspaper notice in conformance with the provisions of Section 9.1 of the Charter and Section 1246.03(d) of the Zoning Code, a public hearing was held on the ___ day of _____ 2025; and

WHEREAS, it is the desire of this Council to amend the official Zoning Map of the City of North Ridgeville.

NOW THEREFORE, BE IT ORDAINED BY THE COUNCIL OF THE CITY OF NORTH RIDGEVILLE, LORAIN COUNTY, OHIO, THAT:

SECTION 1. The official Zoning Map of the City of North Ridgeville is hereby amended so as to provide that from and after the effective date of this Ordinance, that, as particularly described in **Exhibit A**, PPN 07-00-024-101-101 located at 35544 Lorain Road be hereby changed from I-2 Light Industrial District to R-1 Residence District and the industrial portion of PPN 07-00-024-101-109 located at 35600 Lorain Road, be hereby changed from I-2 Light Industrial District to R-1 Residence District.

SECTION 2. Upon the effective date of this Ordinance, the Chief Building Official shall cause the official Zoning Map to be changed and corrected so as to reflect the rezoning authorized by this Ordinance.

SECTION 3. In all other respects, the North Ridgeville Zoning Map, as amended from time to time, shall remain in full force and effect.

SECTION 4. It is found and determined that all formal actions of this Council concerning and relating to the adoption of this Ordinance were conducted in an open meeting of this Council, and that all deliberations of this Council and any of its committees that resulted in such formal action were in meetings open to the public in accordance with all legal requirements, including §121.22 of the Ohio Revised Code.

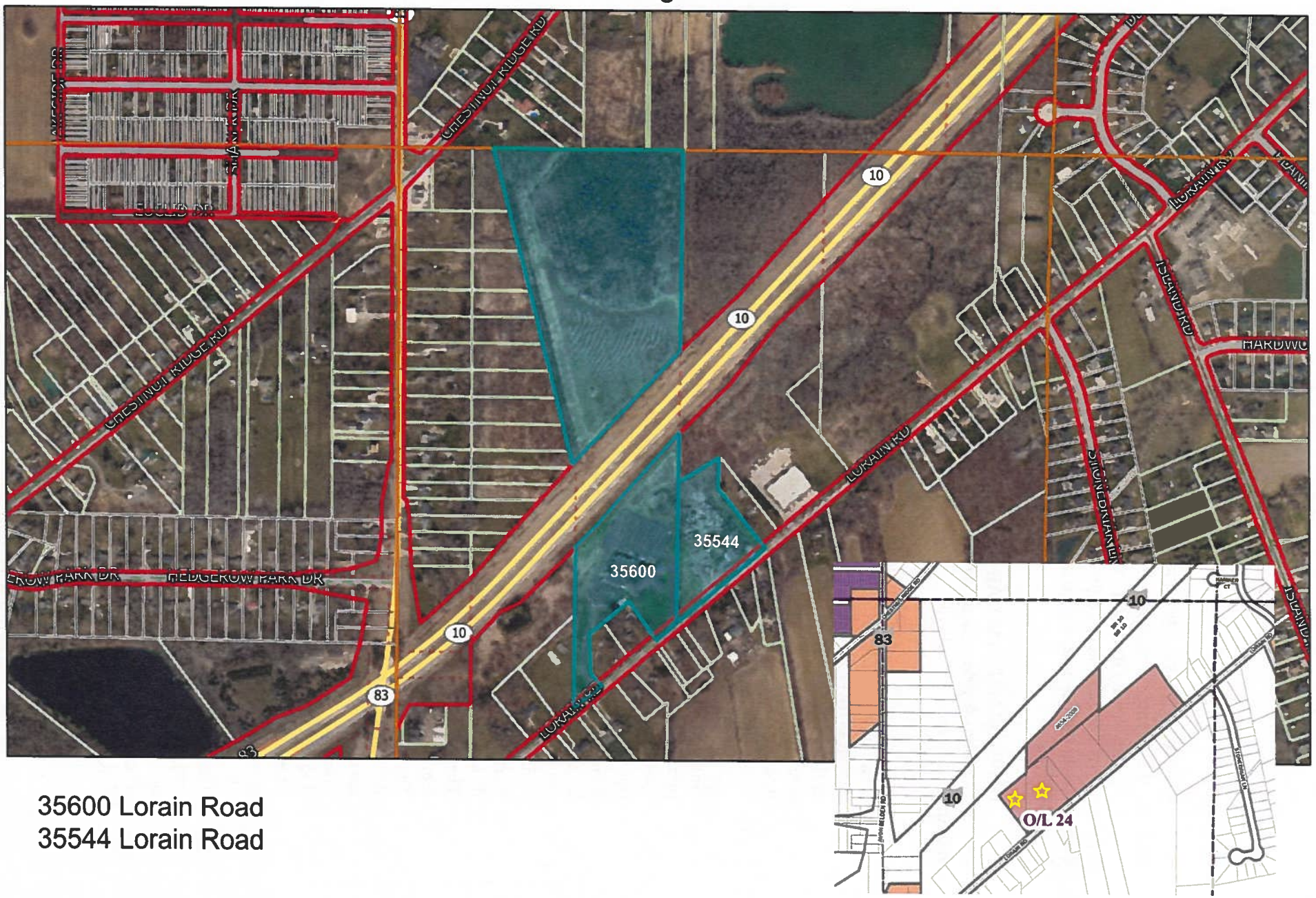
SECTION 5. This Ordinance shall take effect and be in full force from and after the earliest period allowed by law.

PASSED:_____ _____
PRESIDENT OF COUNCIL

ATTEST:_____
CLERK OF COUNCIL

APPROVED:_____ _____
MAYOR

Harvest Ridge Church



35600 Lorain Road
35544 Lorain Road

Warranty Deed

KNOW ALL MEN BY THESE PRESENTS THAT **Harvest Ridge Assembly of God Church**, the Grantor, claiming title by or through instrument recorded in Volume _____, Page _____, Lorain County Recorder's Office, for valuable consideration thereunto given, and especially for the sum of Ten Dollars ($ 10.00) received to the full satisfaction of **Harvest Ridge Assembly of God Church**, the Grantee, whose tax mailing address will be 35600 Lorain Road, North Ridgeville, Ohio 44039 does

GIVE, GRANT, BARGAIN, SELL AND CONVEY unto said Grantee, its successors and assigns, the following described premises, situated in the City of North Ridgeville, County of Lorain, and State of Ohio:

Situated in the City of North Ridgeville, County of Lorain, and State of Ohio. Being known as part of Original Ridgeville Township Lot No. 24, and more definitely described as follows:

Beginning at a p.k. nail found set at the intersection of the centerline of Butternut Ridge Road and the centerline of Ohio State Route No. 83;

Thence North 50° 02' 19" East in the centerline of Butternut Ridge Road, a distance of 1316.50 feet to the southwesterly corner of land conveyed to the Harvest Ridge Assembly of God as recorded in Lorain County Recorder's Instrument No. 20020817490; said point is the principal place of beginning;

Thence North 0° 09' 11" East in the Harvest Ridge Assembly of God's westerly line, and in the westerly line of land conveyed to the Harvest Ridge Assembly of God as recorded in Volume 1034, Page 639 of Lorain County Official Records, a distance of 759.10 feet to an iron pin found set in the southerly right-of-way line of Ohio Route No. 10, said point being the southwesterly corner of "Parcel 225-WL" conveyed to the State of Ohio as recorded in Volume 1034, Page 477 of Lorain County Deed Records;

Thence continuing North 0° 09' 11" East in the westerly line of said "Parcel 225-WL", a distance of 349.00 feet to an angle point therein;

Thence North 14° 15' 52" West in the westerly line of "Parcel 225-WL", a distance of 49.78 feet to an iron pin found set in the northwesterly corner of said parcel;

Thence North 14° 15' 52" West in the westerly line of land conveyed to Harvest Ridge Assembly of God, recorded as first aforesaid, a distance of 1525.21 feet to an iron pin found set in the northerly line of Original Lot No. 24;

Thence North 89° 32' 10" East in the northerly line of Original Lot No. 24, a distance of 900.63 feet to an iron pin found set in Harvest Ridge Assembly of God's northeasterly corner;

Thence South 0° 47' 19" West in Harvest Ridge Assembly of God's easterly line, a distance of 946.02 feet to a 5/8" capped rebar set in the northerly right-of-way line of Ohio Route No. 10;

Thence South 43° 29' 11" West in the northerly right-of-way line of Ohio Route No. 10, said line being the northerly line of the aforesaid "Parcel 225-WL", a distance of 743.66 feet to the northwesterly corner of "Parcel 225-WL";

Thence South 14°15' 52" East in the westerly line of "Parcel 225-WL", a distance of 49.78 feet to an angle point therein;

Thence South 0°19' 11" West in the westerly line of "Parcel 225-WL", a distance of 349.00 feet to an iron pin found set in the southwesterly corner thereof and in the southerly right-of-way line of Ohio Route No. 10;
Thence North 45° 26' 38" East in the southerly right-of-way line of Ohio Route No. 10, a distance of 133.01 feet to an iron pin found set at an angle point therein;
Thence North 41° 12' 03" East in the southerly right-of-way line of Ohio Route No. 10, a distance of 607.78 feet to an iron pin found set in the southeasterly corner of "Parcel 225-WL" and in the northeasterly corner of land conveyed to Harvest Ridge Assembly of God as recorded in Volume 1034, Page 639 of Lorain County Official Records;
Thence South 0° 47' 19" West in Harvest Ridge Assembly of God's easterly line, a distance of 903.63 feet to a point in the centerline of Butternut Ridge Road; said line passes through an iron pin found set 39.60 feet northerly of said Road;
Thence South 50° 02' 19" West in the centerline of Butternut Ridge Road, a distance of 125.75 feet to the southeasterly corner of land conveyed to Ronald P. Decker, Jr. as recorded in Volume 327, Page 597 of Lorain County Official Records;
Thence North 33° 17' 26" West in Decker's easterly line, a distance of 225.00 feet to an iron pin found set in Decker's northeasterly corner; said line passes through an iron pin found set 30.20 feet off the centerline of Butternut Ridge Road;
Thence South 50° 02' 19" West in Decker's northerly line and westerly extension thereof, a distance of 243.98 feet to a 5/8" capped rebar set;
Thence South 0° 09' 11" West, a distance of 189.56 feet to a point occupied by an existing power pole;
Thence South 39° 57' 41" East, a distance of 78.51 feet to a point in the centerline of Butternut Ridge Road; said line passes through a 5/8" capped rebar set 30.00 feet off the centerline of said road;
Thence South 50° 02' 19" West in the centerline of Butternut Ridge Road, a distance of 166.66 feet to the principal place of beginning;
Enclosing a parcel containing 28.3821 acres of land of which 20.7883 acres are north of Ohio Route No. 10 and 7.5938 acres are south of Ohio Route No. 10, but subject to all legal highways as surveyed by KS Associates, Inc., Engineers and Surveyors, in December of 2002.

TO HAVE AND TO HOLD the above premises, with the appurtenances thereunto belonging, unto the said Grantee, ITS SUCCESSORS AND ASSIGNS FOREVER. and assigns forever.

AND THE SAID Grantor, for themselves and their heirs, executors and administrators, hereby covenant with the said Grantee, its successors and assigns, that said Grantor is the true and lawful owner of said premises, and is well seized of the same in fee simple, and has good right and full power to bargain, sell and convey the same in the manner aforesaid, and that the same are free and clear from all encumbrances, except zoning ordinances, easements, reservations, conditions and restrictions of record, if any, and real estate taxes and assessments, general and special, which are a lien at the time of transfer, but which are not then due and payable, and further, that said Grantor will warrant and defend the same against all claims whatsoever except as provided herein.

LORAIN COUNTY TAX MAP DEPT
P. P. NO. 07-00-024-101-109

IN WITNESS WHEREOF, the Grantor has hereunto set his hand the 19th day of February, 2003.

SIGNED AND ACKNOWLEDGED
IN THE PRESENCE OF:

Print Witness Name: Jeffrey H.Manning

Print Witness Name Kim A. Ksiazek

PASTOR KEVIN L. CROW
HARVEST RIDGE ASSEMBLY OF GOD CHURCH

STATE OF OHIO)
)
LORAIN COUNTY)

BEFORE ME, a Notary Public in and for said County and State, personally appeared the above-named Pastor Kevin L. Crow who acknowledged that he did sign this Warranty Deed and the same is his free act and deed.

IN TESTIMONY WHEREOF, I have hereunto set my hand and official seal at North Ridgeville, Ohio the 19th day of February, 2003.

NO TRANSFER NECESSARY
MARK R. STEWART
LORAIN COUNTY AUDITOR
3-23-03
DEPUTY

NOTARY PUBLIC

Kim A. Ksiazek
Notary Public, State of Ohio
My Commission Expires March 26, 2007
Recorded in Lorain County

3/26/07

Box: Atty Kevin Ryan

This Instrument Prepared By:
Jeffrey H. Manning, Attorney at Law
7064 Avon Belden Road
North Ridgeville, OH 44039
216-327-2700
REALEST/HARVEST RIDGE.GWD.27+ACRE

March 24, 03
NO PLAT NECESSARY
City of North Ridgeville
ACTING Mayor

218535

MARY ANN JAMISON
LORAIN COUNTY
RECORDER

2003 APR 24 A 8:00

RECEIVED FOR RECORD

18.00
Tim.

TRANSFERRED
IN CONFORMANCE WITH SEC. 319.202
OHIO REV. CODE
NOV 15 2017 fee pd $28.00 ecr
J. CRAIG SNODGRASS, CPA, CGFM
LORAIN COUNTY AUDITOR

Doc ID: 020247280002 Type: OFF
Kind: DEEDS
Recorded: 11/15/2017 at 01:59:33 PM
Fee Amt: $28.00 Page 1 of 2
Lorain County, Ohio
Judith M Nedwick County Recorder
File 2017-0651832

2017 NOV 15 P 1:45 006571

Quit Claim Deed

KNOW ALL MEN BY THESE PRESENTS, that I, **LINDA J. MOYES** now by marriage known as **LINDA J. OTT**, the Grantor, married to **GERALD H. OTT**, for valuable consideration paid, does hereby Give, Grant, Remise, Release and Forever Quit Claim unto **MICHAEL MOYES**, the Grantee, with no warranty covenants, all such right and title as the said Grantor, has or ought to have in and to the following described parcel of real property:

Situated in the City of North Ridgeville, County of Lorain, and State of Ohio, and known as being part of Original Ridgeville Township Lot No. 24, and bounded and described as follows: Beginning at a 1" iron pin in a monument box on the centerline of Island Road, at its intersection with the centerline of Butternut Ridge Road, 60 feet wide; Thence South 50° 43' 34" West along the centerline of Butternut Ridge Road, a distance of 619.56 feet to an angle point therein; Thence South 49° 58' 44" West along the centerline of Butternut Ridge Road, a distance of 1732.93 feet to the most Southerly corner of a parcel of land conveyed to Roy S. Collins and Leona Collins by deed recorded in Volume 624, Page 472 of Lorain County Records of Deeds and the **principal place of beginning**; Thence South 49° 58' 44" West along the centerline of Butternut Ridge Road, a distance of 554.69 feet to the most Easterly corner of a parcel of land conveyed to the Harvest Ridge Assembly of God, by deed recorded in Volume 1034, Pag 639 of Lorain County Official Records; Thence North 0° 39' 38" East along the Easterly line of land so conveyed to the Harvest Ridge Assembly of God, passing through a 5/8" capped (Reitz Eng.) iron pin set at 39.56 feet, a distance of 661.19 feet to a 5/8" capped (Reitz Eng.) iron pin set; Thence North 65° 19' 28" East, a distance of 225.44 feet to the Northwesterly corner of land conveyed to Roy S. and Leona Collins, as aforesaid, at which point a 1 ½" iron pipe was found 0.09 feet West and 0.89 feet South; Thence South 0° 37' 45" West along the Westerly line of land so conveyed to Roy S. and Leona Collins, a distance of 143.85 feet to the most Westerly corner thereof, at which point an iron shaft was found 1.64 feet East and 2.20 feet South; Thence South 40° 01' 16" East along the Southwesterly line of land so conveyed to Roy S. and Leona Collins, passing through a 2" iron pipe found at 306.08 feet, a distance of 332.61 feet to the **principal place of beginning** and containing 4.0012 acres (174,292 sq. ft.) of land, according to a survey by The Henry G. Reitz Engineering Company, Donald E. Woike, Registered Surveyor No. 5547, dated August 18, 1999, be the same more or less, but subject to all legal highways and easements of record. *All bearings are to an assumed meridian and used to denote angles only.*

Permanent Parcel No.: 07-00-024-101-101
Property Location: 35544 Lorain Rd., North Ridgeville, OH 44039

Legal description reviewed by SS
on 11/15/17 per ORC, Section 5713.09

Tax Mailing Address: 35544 Lorain Rd., North Ridgeville, OH 44039
Prior Instrument Ref.: 2010-0345455

This conveyance is subject to *(i)* easements and restrictions of record; *(ii)* zoning ordinances; and *(iii)* real estate taxes and assessments, both general and special, not yet due and payable.

And for valuable consideration we, LINDA J. MOYES now known as LINDA J. OTT and GERALD H. OTT, do hereby remise, release and forever quit-claim unto the said Grantee, his heirs, executors, and assigns, all of our right and expectancy of DOWER in the above described premises.

Executed on this 1st day of November, 2017.

Linda J. Ott, *Grantor*
Formerly known as Linda J. Moyes

Gerald H. Ott

STATE OF OHIO,)
COUNTY OF LORAIN) ss ACKNOWLEDGEMENT

Before me, a Notary Public, in and for said County and State, personally appeared the above-named LINDA J. OTT, formerly known as LINDA J. MOYES, the Grantor, and GERALD H. OTT, who acknowledge that they did sign this instrument and that the same is their free act and deed.

In witness whereof, I have hereunto set my hand and official seal, at Sheffield Village, Ohio this 1st day of November, 2017.

Notary Public

NOTARIAL SEAL STATE OF OHIO

RUSSELL T. McLAUGHLIN
Attorney At Law
NOTARY PUBLIC, STATE OF OHIO
My Commission Has No Exp. Date
Section 147.03 O.R.C.

This instrument prepared by:
Russell T. McLaughlin, Esq.
O'Toole, McLaughlin,
Dooley & Pecora Co., LPA
5455 Detroit Road
Sheffield Village, Ohio 44054
(440) 930.4001

O'TOOLE, MCLAUGHLIN, DOOLEY
AND PECORA
5455 DETROIT RD
SHEFFIELD VILLAGE, OH
44054-2940

Planning Commission Application

RECEIVED
MAY 16 2025

CITY OF NORTH Ridgeville EST 1810

SUBMITTAL INSTRUCTIONS AND PROCEDURES

Plan reviews will be carried out according to the processes described in the City's Zoning Code.

- Pre-Application. Prior to making application, applicants are recommended to contact the city to discuss their development project. City staff will outline the review process and provide a checklist of required submittals.
- Application Submittal. Following the pre-application meeting, the applicant shall submit this completed application, fee and ten (10) sets of all required exhibits. All submissions shall be made in hard copy to the Building Division. Plans shall be collated, folded and easily legible.
- Staff Review. The applicant shall attend a staff review meeting and may be required to submit additional information and/or revised plans based on staff input.
- Variances. Where zoning variances are sought by the applicant, review by the Board of Zoning and Building Appeals will be necessary prior to consideration by the Planning Commission, requiring a separate application.
- Decision or Referral. Following staff review, complete submittals for Administrative Review projects may be considered for approval. For Council Review projects, complete submittals shall be referred to the next available Planning Commission meeting, which are held the second Tuesday of each month.

PROJECT INFORMATION

34610 Bainbridge Rd., North Ridgeville, OH 44039
Location address

0700016104233
Parcel number(s)

Project type: ☒ Commercial/Industrial/Multi-Fam ☐ Prelim Major Subdivision ☐ Final Major Subdivision ☐ Lot Split

Project elements: ☒ New Construction ☐ Building Addition/Alteration ☐ Site Improvements ☐ Plat

A new 340,000 SF High School for North Ridgeville City Schools. Existing HS will be demolished.
Project description

APPLICANT/AGENT INFORMATION

Claire Bank / ThenDesign Architecture (TDA)
Name/Company

4230 River Street, Willoughby, OH 44094
Applicant address

(440)269-2266
Applicant phone

cbank@thendesign.com
Applicant email

PROPERTY OWNER INFORMATION

Karli Schroeder / North Ridgeville City Schools
Name/Company

34620 Bainbridge Rd., North Ridgeville, OH 44039
Property owner address

(440)353-1109
Property owner phone

karlischroeder@nrcs.net
Property owner email

AUTHORIZATION AND ACKNOWLEDGEMENT

Claire Bank
Applicant signature

Property owner signature

I hereby authorize the City of North Ridgeville, including Planning Commission members, to view the premises and consent to their entry onto the property for the purpose of observing site conditions related to review of my application.

OFFICE	PPZ No.	Planning Fee Paid	ACTION
	PPZ 2025-0357	N/C	

Planning Commission Comment Sheet

PROJECT INFORMATION

A new 340,000 SF High School for North Ridgeville City Schools. Existing HS will be demolished.

Proposed project	
34610 Bainbridge Road	07-00-016-104-233
Location	Parcel number
June 10, 2025	May 29, 2025
Meeting date	Comments due

RECOMMENDATIONS

Preliminary Zoning Review – May 23, 2025

- Chapter 1285: Parking and Lighting
  - 1285.03(a) Minimum Required Parking Spaces.
    - Provide parking summary table and information needed to determine zoning compliance. Required parking for school is one space per employee plus spaces required for areas of assembly (performing arts center, gymnasium, etc.)
    - Bicycle parking required for all public/institutional uses.
  - 1285.04 Parking Design.
    - Are crosswalks being considered to provide designated pedestrian route from parking lots on opposite side of main entry drive?
  - 1285.08(b) Exterior Lighting Plan Required.
    - Lighting on interior of parking lots being constructed in Phase 1 near Ranger Way are shown as existing. Perimeter lights are existing; however, interior lights do not currently exist. If this lighting is intended to be added in Phase 2, include area on photometric and identify proposed fixtures.
  - 1285.08(c)(1) Full Cut-off Required. All exterior pole lighting fixtures used to illuminate off-street parking areas shall be full cut-off and shall be arranged to deflect the light away from adjoining properties and adjacent streets. Exterior building lighting fixtures used to illuminate sidewalks, entrances, and service areas shall also be full-cut off fixtures.
    - Provide cut sheets for building mounted light fixtures.
    - Were building lights factored into photometric plan? Photometric grid shall include "light contributions from all sources on the site."
  - 1285.08(d) Luminaire Height. The height of any parking lot light fixture shall not exceed 30 feet above grade in industrial districts and 25 feet above grade in all other non-residential districts. When located within 50 feet of a residential zoning district, the height of a parking lot light fixture shall not exceed 16 feet above grade. The Planning Commission may require lower mounting heights if the adjoining grade is lower than developed grade.
    - Proposed poles are 30+ feet high. Electrical site plan indicates 30-foot pole. Photometric plan indicates mounting height of 32.5 feet. Clarify height. Variance required.
    - Provide setbacks of new pole lights closest to east property line. No pole within 50 feet of a residential property line can exceed 16 feet. Several 30-foot poles appear closer than 50 feet. Variance required.
  - 1285.08(e)(1) Light Trespass. Lighting intensity shall not exceed zero (0) foot candles at the property line when abutting residential zoning districts. All on-site lighting of buildings, lawns and parking areas shall be designed so that no light source will be visible at the

ground level of any adjacent residential property or building. No on-site lighting may cause glare onto any public street or vehicle thereon.
    - Lighting now additionally proposed in existing lot north of Pitts driveway.
    - Light trespass shown on some residential properties along Pitts Boulevard and on Bainbridge Road. Light source will be visible at ground level of adjacent residential property. Variance required.
- Chapter 1288: Buffer Strips. Any R-1 property abutting a higher density residential district or commercial district is provided screening through a required buffer strip, at a minimum depth of 10 feet. While not strictly required by the Zoning Code when R-1 abuts R-1, the school use is of a commercial nature and intensity, and adjacent residents should be afforded screening. Planning Commission can require buffer strips for any building not covered under the chapter "upon substantial exterior alterations and/or additions."
    - Phase 1 plans showed a 6- to 8-foot-tall fence along east property line south of Pitts entrance drive. Phase 2 plan does not include fence. Provide findings/rationale for proposed landscape plan versus previously discussed fence and demonstrate effectiveness of proposed landscape plan.
- Chapter 1294.01(f) Building Height Limitations. The building height limitations of this Zoning Code shall not apply to school buildings, provided that such buildings shall be set back from all lot lines, in addition to any other required setback imposed in the district in which they are proposed to be located, one foot for each one foot of height in excess of thirty-five feet, measured from the grade at the front of the building to the line of the eaves of such building.
    - Provide building setbacks from property lines and building height. Only the portion of the building that is over the 35 foot height limit must meet the enhanced setback, not the entire building.

SUBMITTED BY

Kimberly Luber

Administrative officer signature

Planning & Development Director

Title

Planning Commission Bylaws Article V Section 2 – Administrative Review. All applications including those plans and maps submitted to the Commission shall be referred to Administrative Officers. Comments and recommendations by Administrative Officers, if any, shall be forwarded to the Secretary not later than ten (10) calendar days after receipt. Administrative Officers who have not acted within the allotted time shall be deemed to have concurred with plans as submitted.

Planning Commission Comment Sheet

PROJECT INFORMATION

A new 340,000 SF High School for North Ridgeville City Schools. Existing HS will be demolished.

Proposed project	
34610 Bainbridge Road	07-00-016-104-233
Location	Parcel number
June 10, 2025	May 29, 2025
Meeting date	Comments due

RECOMMENDATIONS

The City Arborist requests the following:

- A list or map of all existing trees intended to be preserved.
- City Arborist must be notified and consulted upon marking and installation of Tree Protection Zone, and removal of existing trees.
- Evergreen Tree Planting- Current specs: "Remove Top 1/3 of Burlap" – Change to "Remove top 3/4" of Burlap.
- Remove top portion of planting soil from root balls of woody plantings to expose Root Flare. Keep all soil and mulch away from the root flare after planting.
- Remove all nursery ties and stakes after planting.
- Will watering bags or rings be installed? If yes. "Tree Diaper" is recommended.
- Large trees being planted within 20ft. of sidewalk, asphalt or foundation should have root barriers/deterrent installed at sidewalk to prevent future root interference/damage. For courtyard trees consider Urban Forest's "R-Tank".
- The proposed evergreen plantings (Eastern White Pine, Norway Spruce) in the southeast corner are too close to the existing trees and too close to the proposed White Oak plantings. Consider moving a portion of them to the south of the existing trees. (Consult City Arborist.)
- The faculty Parking area to the northwest- Although they would certainly shade the parking area well, White Oaks will drop their acorns potentially damaging vehicles. Consider a thornless honey locust variant in the smaller tree islands. The larger tree islands consider Gingko biloba (male cultivars only) or a Dutch Elm Disease-resistant cultivar i.e. American Elm such as 'Princeton', or 'Valley Forge'
- Overall plant selection- Roughly 37% of the shade tree selection is of the Maple variety. Consider changing the 18 'Bowhall' Maples to a ratio of 'Slender Silhouette' Sweetgum and Ginkgo biloba 'Princeton Sentry'. The Oak selection is around 30%. Consider changing a portion of the oak selection to London Plane, or Japanese zelkova.

SUBMITTED BY

Ryan Thomas	City Arborist
Administrative officer signature	Title

Planning Commission Bylaws Article V Section 2 – Administrative Review. All applications including those plans and maps submitted to the Commission shall be referred to Administrative Officers. Comments and recommendations by Administrative Officers, if any, shall be forwarded to the Secretary not later than ten (10) calendar days after receipt. Administrative Officers who have not acted within the allotted time shall be deemed to have concurred with plans as submitted.

Planning Commission Comment Sheet

PROJECT INFORMATION

A new 340,000 SF High School for North Ridgeville City Schools. Existing HS will be demolished.

Proposed project	
34610 Bainbridge Road	07-00-016-104-233
Location	Parcel number
June 10, 2025	May 29, 2025
Meeting date	Comments due

RECOMMENDATIONS

Please Contact Asst. Chief Mike Uhnak regarding the below comments:

1- There is confusion regarding the Fire Line, FDC, and the Riser/Fire Pump Room location. The site plan does not coincide with the architectural building layout. The Fire Line enters the building on the Bainbridge Rd side, the FDC is located on the west side of the building, and the riser/fire pump room is located on the north side of the building near the main mechanical room. Per NFPA 13 6.4.3.2 Private fire service mains shall not be permitted to extend more than 10ft under the building. Could you please clarify the fire line concerns?

2- Carbon Monoxide Detection is required in Educational Use Groups. When submitting the plans with regards to the fire alarm system, please identify all rooms that will have natural gas. This will include science rooms with natural gas for educational purpose.

3- Any areas that will have hazardous materials will need identified for plan review purposes. This will identify ventilation, handling, and storage requirements.

Asst. Chief Mike Uhnak
North Ridgeville Fire Department
Fire Prevention
muhnak@nridgeville.org
(440) 653-6362

SUBMITTED BY

Asst. Chief Mike Uhnak	Assistant Fire Chief
Administrative officer signature	Title

Planning Commission Bylaws Article V Section 2 – Administrative Review. All applications including those plans and maps submitted to the Commission shall be referred to Administrative Officers. Comments and recommendations by Administrative Officers, if any, shall be forwarded to the Secretary not later than ten (10) calendar days after receipt. Administrative Officers who have not acted within the allotted time shall be deemed to have concurred with plans as submitted.

From: Kim Lieber <klieber@nridgeville.org>
Sent: Monday, June 2, 2025 12:55 PM
To: Claire Bank <CBank@thendesign.com>
Cc: Kevin Corcoran <kcorcoran@nridgeville.org>; roxanncaserio@nrcs.net; davidpritt@nrcs.net; karlischroeder@nrcs.net; Schurman, Bill <wschurman@hammondconstruction.com>
Subject: RE: North Ridgeville HS - Planning Commission Application

Thank you, Claire. I've forwarded your resubmittal along to Tina Wieber, Planning Commission secretary.

Do you have an ETA on the couple items you mention still in progress?

When you come to city hall today, you'll find us in our new offices on the second floor of the old police station, the other far end of the building.

Thanks,
Kim

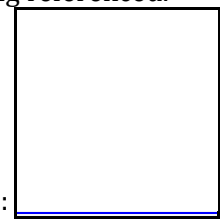
Kim Lieber, AICP
Director of Planning & Development
City of North Ridgeville

From: Claire Bank <CBank@thendesign.com>
Sent: Monday, June 2, 2025 11:59 AM
To: Kim Lieber <klieber@nridgeville.org>
Cc: Kevin Corcoran <kcorcoran@nridgeville.org>; roxanncaserio@nrcs.net; davidpritt@nrcs.net; karlischroeder@nrcs.net; wschurman@hammondconstruction.com
Subject: Re: North Ridgeville HS - Planning Commission Application

Hi Kim,

Attached, please find our responses to the reviews received for Planning Commission from you, Asst. Chief Mike Uhnak, and City Arborist Ryan Thomas.

In the slide deck, we updated the phasing shown to the diagrams from Hammond that we provided to the city in April. That way everyone has the same diagrams that are being referenced.



Building Mounted Lighting Cut Sheets have been uploaded for review here: Building Mounted Cut Sheets

There are a couple of items that require a bit more time to adjust the actual drawings, described below:

- The Landscape Plan is being adjusted per the comments from the city arborist. This will include some adjustment to the plantings to create a buffer on the eastern edge.
- Electrical is adjusting their lighting and photometrics plans as stated in their responses to the comments provided.

- Fire line adjustments.

I plan to drop off (10) printed sets of the Slides by end of day today.

Thank you,

Claire Markwardt Bank, AIA, NCARB

tda

ThenDesign Architecture
Office: 440 269 2266
Cell: 440 488 5994
thendesign.com

Memorandum

Date:	06/02/25		
To:	Kim Lieber, AICP – Director of Planning and Development		
From:	Claire Markwardt Bank – ThenDesign Architecture		
Project:	NRCSD – New High School 34620 Bainbridge Road	**Job#:**	23099
Subject:	Planning Commission Review Responses for comments received from Asst. Chief Mike Uhnak, Planning & Development Director Kim Lieber, and City Arborist Ryan Thomas		

Planning Commission Review Comment Responses to Asst. Chief Mike Uhnak:

1) **Comment:** There is confusion regarding the Fire Line, FDC, and the Riser/Fire Pump Room location. The site plan does not coincide with the architectural building layout. The Fire Line enters the building on the Bainbridge Rd side, the FDC is located on the west side of the building, and the riser/fire pump room is located on the north side of the building near the main mechanical room. Per NFPA 13 6.4.3.2 Private fire service mains shall not be permitted to extend more than 10ft under the building. Could you please clarify the fire line concerns?
Response: The fire line is going to be modified to enter from the north, directly into the Fire Pump Room. The FDC will be located as coordinated with both the architect and the fire department. The team would like to discuss access to the Fire Pump Room with the Asst. Fire Chief to be sure access meets your needs.

2) **Comment:** Carbon Monoxide Detection is required in Educational Use Groups. When submitting the plans with regards to the fire alarm system, please identify all rooms that will have natural gas. This will include science rooms with natural gas for educational purpose.
Response: Carbon Monoxide Detection devices will be in all locations with natural gas. Carbon Monoxide Detection devices will be tied into the fire alarm system.

3) **Comment:** Any areas that will have hazardous materials will need identified for plan review purposes. This will identify ventilation, handling, and storage requirements.
Response: These areas will be identified when the plans are issued for permit review.

Planning Commission Review Comment Responses to Planning & Development Director Kim Lieber

1) Chapter 1285: Parking and Lighting
   a. 1285.03(a) Minimum Required Parking Spaces
      i. Provide parking summary table and information needed to determine zoning compliance. Required parking for school is one space per employee plus spaces required for areas of assembly (performing arts center, gymnasium, etc.)
      Response: Parking needs have been discussed with the North Ridgeville City Schools administrative team during design. Please reference the Proposed Site Layout Diagram, which is page 2 of the Planning Commission Slides. Additional count information has been added. This gives the most information on intended day-to-day parking usage. High School Spaces requested during the day for staff and student needs totaled 550 spaces. The adjacent lots designated for High School Use while both schools are in session provide 687 spaces. During the evening, when events may be taking place on campus, the whole campus will be available for parking. The overall capacity on campus is being increased by 310 spaces to 1,269 spaces. Please reference parking summary table on the next page.

North Ridgeville Campus Parking

High School Per Zoning:	
Staff	150
Auditorium Assembly	401
Gym Assembly	438
Natatorium Assembly	150
Total for Staff + Assembly:	**1139**

Day time demand of HS Lots:	
Staff	150
Students	400
Total for Normal Day:	550
Designated lots for HS Daily Use:	**687**

Overall Campus Parking	
Existing Campus Parking Count:	959
Total Proposed Parking Count:	**1,269**
Net Gain of:	310

ii. Bicycle parking required for all public/institutional uses.
Response: 92 bicycle parking spaces will be provided for LEED.

b. 1285.04 **Parking Design**
   i. Are crosswalks being considered to provide designated pedestrian route from parking lots on opposite side of main entry drive?
   Response: Yes, crosswalks are being considered. We will show these on revised drawings.

c. 1285.08(b) **Exterior Lighting Plan Required**
   i. Lighting on interior of parking lots being constructed in Phase 1 near Ranger Way are shown as existing. Perimeter lights are existing; however, interior lights do not currently exist. If this lighting is intended to be added in Phase 2, include area on photometric and identify proposed fixtures.
   Response: Lighting is intended in these lots. The fixtures are going to match the existing fixtures in neighboring lots. The new photometric plan will include this area.

d. 1285.08(c)(1) **Full Cut-off Required.** All exterior pole lighting fixtures used to illuminate off-street parking areas shall be full cut-off and shall be arranged to deflect the light away from adjoining properties and adjacent streets. Exterior building lighting fixtures used to illuminate sidewalks, entrances, and service areas shall also be full-cut off fixtures.
   Response: Understood and will comply.
   i. Provide cut sheets for building mounted light fixtures.
   Response: Cut sheets for building mounted fixtures will be provided.
   ii. Were building lights factored into photometric plan? Photometric grid shall include "light contributions from all sources on the site."
   Response: New photometric plan will be created that factors in all sources on the site. Fixtures will have light shields facing property lines to deflect light away from adjoining properties and adjacent streets.

e. 1285.08(d) **Luminaire Height.** The height of any parking lot light fixture shall not exceed 30 feet above grade in industrial districts and 25 feet above grade in all other non-residential districts. When located within 50 feet of a residential zoning district, the height of a parking lot light fixture shall not exceed 16 feet above grade. The Planning

Commission may require lower mounting heights if the adjoining grade is lower than developed grade.

i. Proposed poles are 30+ feet high. Electrical site plan indicates 30-foot pole. Photometric plan indicates mounting height of 32.5 feet. Clarify height. Variance required.
Response: Poles are designed to be 30 feet with a 30-inch base making the light fixture at a height of 32.5 feet. This is designed to match existing poles located on the property. Variance will be requested.

ii. Provide setbacks of new pole lights closest to east property line. No pole within 50 feet of a residential property line can exceed 16 feet. Several 30-foot poles appear closer than 50 feet. Variance required.
Response: New site lighting layout will be designed to move all poles at least 50-feet from all property lines.

f. **1285.08(e)(1) Light Trespass.** Lighting intensity shall not exceed zero (0) foot candles at the property line when abutting residential zoning districts. All on-site lighting of buildings, lawns and parking areas shall be designed so that no light source will be visible at the ground level of any adjacent residential property or building. No on-site lighting may cause glare onto any public street or vehicle thereon.

i. Lighting now additionally proposed in existing lot north of Pitts driveway.
Response: This is correct. Lights were not proposed as part of Phase 1 because we wanted all fixtures for the High School project to be proposed at one time. The new lights will replace the existing lighting on the lot.

ii. Light trespass shown on some residential properties along Pitts Boulevard and on Bainbridge Road. Light source will be visible at ground level of adjacent residential property. Variance required.
Response: Site lighting will be redesigned so that lighting intensity will not exceed zero (0) foot candles at the property lines. Lighting shields will be used on fixtures to prevent visibility at ground level of adjacent residential properties.

2) **Chapter 1288: Buffer Strips.** Any R-1 property abutting a higher density residential district or commercial district is provided screening through a required buffer strip, at a minimum depth of 10 feet. While not strictly required by the Zoning Code when R-1 abuts R-1, the school use is of a commercial nature and intensity, and adjacent residents should be afforded screening. Planning Commission can require buffer strips for any building not covered under the chapter "upon substantial exterior alterations and/or additions."

3) Phase 1 plans showed a 6- to 8-foot-tall fence along east property line south of Pitts entrance drive. Phase 2 plan does not include fence. Provide findings/rationale for proposed landscape plan versus previously discussed fence and demonstrate effectiveness of proposed landscape plan.
Response: After the site adjustments made in response to the first Planning Commission meeting, which increased the landscape buffer on the eastern edge, as well as additional site investigation by the design team, it was determined a new fence was not appropriate due to the existing fencing along multiple properties along the site boundary. Some existing fences are more substantial than the district would be able to provide. Additionally, there is quite a bit of existing vegetation that would be disturbed if a new fence were added. Landscaping is proposed where the fence is most transparent, providing a natural buffer to the site boundary.



4) **Chapter 1294.01(f) Building Height Limitations.** The building height limitations of this Zoning Code shall not apply to school buildings, provided that such buildings shall be set back from all lot lines, in addition to any other required setback imposed in the district in which they are proposed to be located, one foot for each one foot of height in excess of thirty-five feet, measured from the grade at the front of the building to the line of the eaves of such building.
    a. Provide building setbacks from property lines and building height. Only the portion of the building that is over the 35 foot height limit must meet the enhanced setback, not the entire building.
    Response: Please reference attached diagram (page 3 of the Planning Commission Slide Deck) showing building heights and setbacks.

Planning Commission Review Comment Responses to City Arborist Ryan Thomas:

1) A list or map of all existing trees intended to be preserved.
Response: All existing trees to remain are indicated on sheet L101 as existing tree (typ.)

2) City Arborist must be notified and consulted upon marking and installation of Tree Protection Zone, and removal of existing trees.
Response: Civil to add note to demo plans. Landscape Plan tree protective fencing detail to include note.

3) Evergreen Tree Planting – Current specs: "Remove Top 1/3 of Burlap" – Change to "Remove top ¾" of Burlap."
Response: Landscape Plan detail to be updated.

4) Remove top portion of planting soil from root balls of woody plantings to expose Root Flare. Keep all soil and mulch away from the root flare after planting.
Response: Note to be added to planting details

5) Remove all nursery ties and stakes after planting.
Response: Note to be added to planting details

6) Will watering bags or rings be installed? If yes, "Tree Diaper" is recommended.
Response: Specification to include notes on watering bags and note will be added to landscape plans.

7) Large trees being planted within 20ft. of sidewalk, asphalt or foundation should have root barriers/deterrent installed at sidewalk to prevent future root interference/damage. For courtyard trees consider Urban Forest's "R-Tank".
Response: Not required by code. The owner may consider this recommendation.

8) The proposed evergreen plantings (Eastern White Pine, Norway Spruce) in the southeast corner are too close to the existing trees and too close to the proposed White Oak plantings. Consider moving a portion of them to the south of the existing trees. (Consult City Arborist.)
Response: Will remove two of the proposed white pines in this area and shift remaining proposed white pine away from the existing trees.

9) The faculty Parking area to the northwest- Although they would certainly shade the parking area well, White Oaks will drop their acorns potentially damaging vehicles. Consider a thornless honey locust variant in the smaller tree islands. The larger tree islands consider Gingko biloba (male cultivars only) or a Dutch Elm Disease-resistant cultivar i.e. American Elm such as 'Princeton', or 'Valley Forge'
Response: Oaks will be removed, and alternate species will be provided.

10) Overall plant selection- Roughly 37% of the shade tree selection is of the Maple variety. Consider changing the 18 'Bowhall' Maples to a ratio of 'Slender Silhouette' Sweetgum and Ginkgo biloba 'Princeton Sentry'. The Oak selection is around 30%. Consider changing a portion of the oak selection to London Plane, or Japanese zelkova.
Response: Percentage of Maples & Oak trees will be reduced in overall plan and alternate species will be provided.

Attachments:
Revised Slide Deck: "North Ridgeville CSD – PC Phase 2 Slides_R1.pdf"

Respectfully Submitted,

Claire Markwardt Bank, AIA, NCARB
ThenDesign Architecture

cc: File
Kim Lieber
Kevin Corcoran
Roxann Ramsey-Caserio
David Pritt
Karli Schroeder
William Schurman

RECEIVED MAY 16 2025

Planning Commission
APPLICANT GUIDE

COMMISSION AUTHORITY
The Planning Commission is a five-member board with the responsibility to hear applications for land use, zoning classifications or districts; to review and recommend legislation and regulations on all matters of municipal planning, land use and zoning; and to review and recommend to Council ordinances creating regulations governing all development and redevelopment, both public and private. The Commission has control over platting and subdividing of lands. The Commission evaluates the plan, design, location, removal, relocation and alteration of buildings and structures located on public lands and along public streets. All plans and recommendations of the Planning Commission must be approved by Council.

APPLICATIONS
Commission meetings are held in Council Chambers at City Hall on the second Tuesday of each month starting at 7:00 p.m. Complete applications must be received at least 25 days prior to a regular meeting to appear on the agenda. To be considered complete, an application must be signed by the property owner, include the required fee and be accompanied by the required plans, exhibits and materials of the type and number listed in the application. All materials submitted become the property of the Commission.

FEES
See the Planning and Zoning Fee Schedule for a complete list of applicable fees for your project.

SUBMITTAL REQUIREMENTS
For residential subdivisions and other platting of property, applicant shall refer to the City's Subdivision Regulations for submittal requirements. For all other projects, Section 1243.05 of the Zoning Code contains the complete list of development plan requirements. Applicants shall submit information responsive to these requirements, as applicable and directed by city staff.

Note that a traffic impact study is required for all developments involving a new use, change of use and/or expansion of use based on trip generation rates and in accordance with the requirements of Chapter 1210.

All drawings for subdivision of property must have the seal of a licensed professional engineer or registered surveyor. Development plans should be stamped by a registered architect or licensed professional engineer. Plats shall be 24 by 36 inches in size. Site improvement plans shall be 22 by 34 inches in size.

NOTICE AND APPEARANCE
The Commission is required to give public notice ten days in advance of a meeting, as well as notice to all parties in interest, including owners of adjoining properties. Applicants and owners are required to attend the meeting where their application is considered.

APPLICANT PRESENTATION
Applicants are expected to submit any documents or information relevant to their request with their application. At the meeting, the applicant, owner or authorized agent (design professional, contractor, attorney, etc.) should be prepared to make a presentation of their project or request and answer questions of the Commission. Adjoining property owners or other interested parties may also make comment or ask questions. Any public comment or questions regarding a project are directed to the Commission chair.



NORTH RIDGEVILLE CITY SCHOOLS

New High School

Planning Commission Submission

June 2, 2025

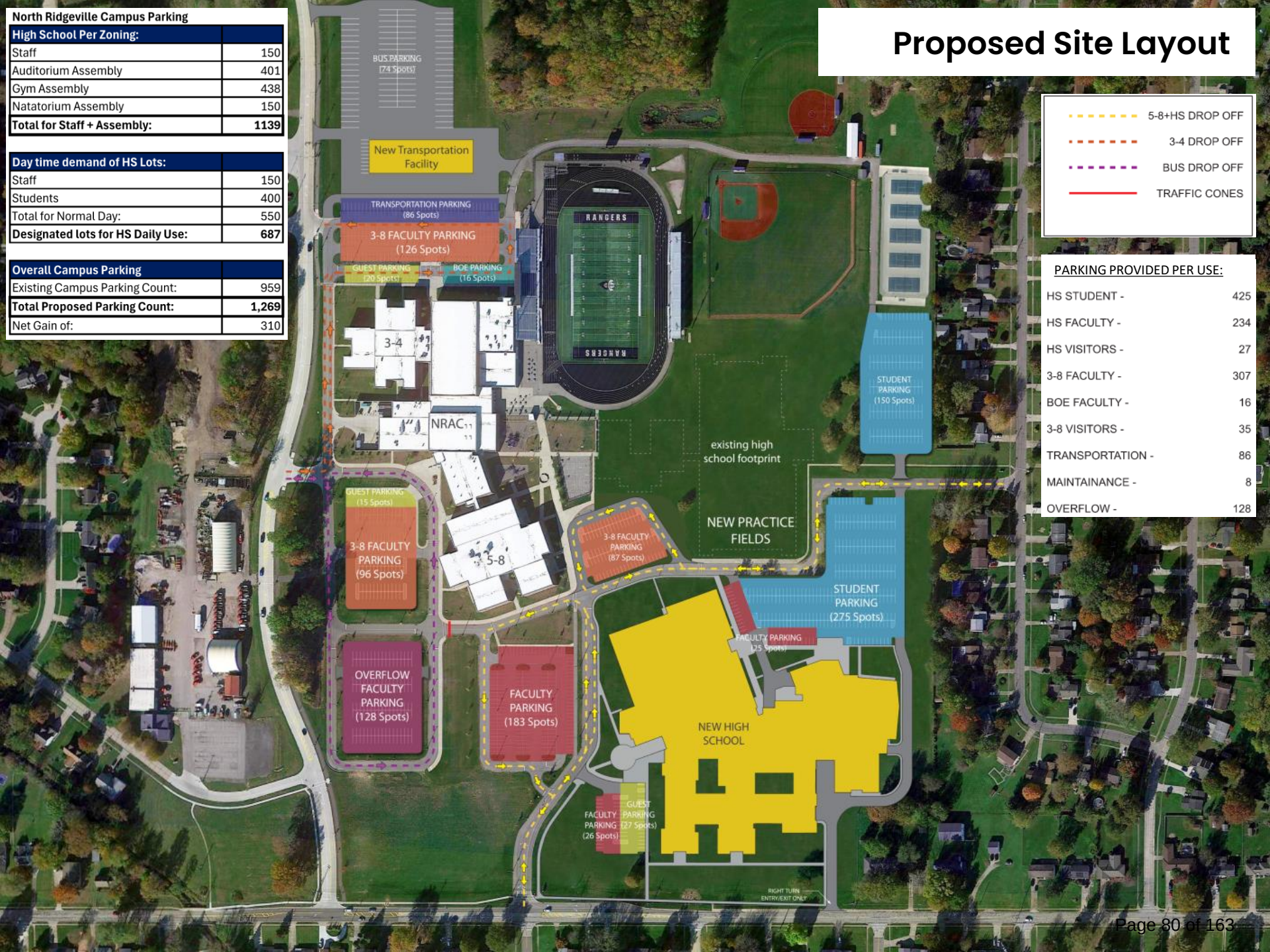
Proposed Site Layout

North Ridgeville Campus Parking

High School Per Zoning:	
Staff	150
Auditorium Assembly	401
Gym Assembly	438
Natatorium Assembly	150
Total for Staff + Assembly:	**1139**

Day time demand of HS Lots:	
Staff	150
Students	400
Total for Normal Day:	550
Designated lots for HS Daily Use:	**687**

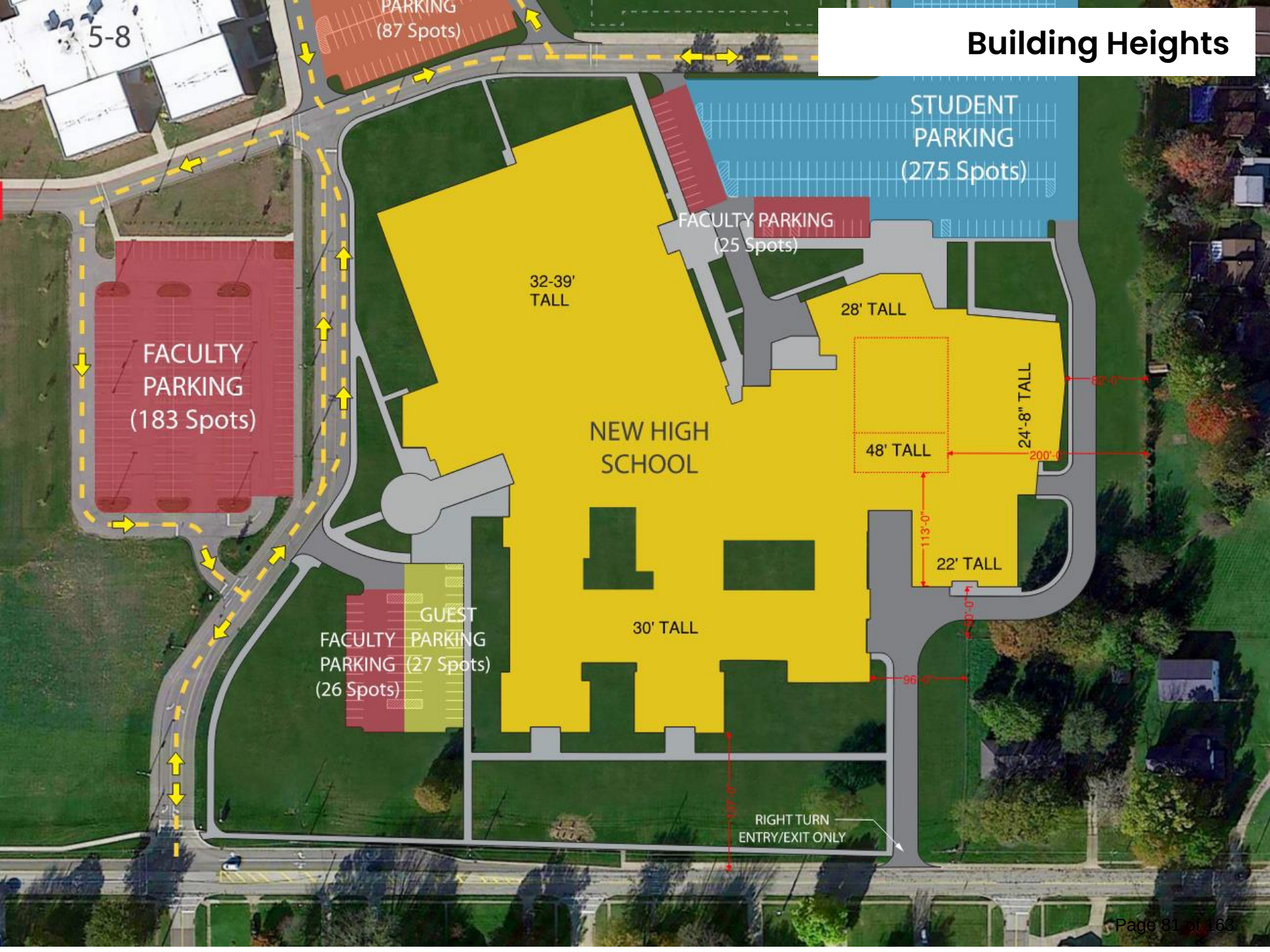
Overall Campus Parking	
Existing Campus Parking Count:	959
Total Proposed Parking Count:	**1,269**
Net Gain of:	310



PARKING PROVIDED PER USE:

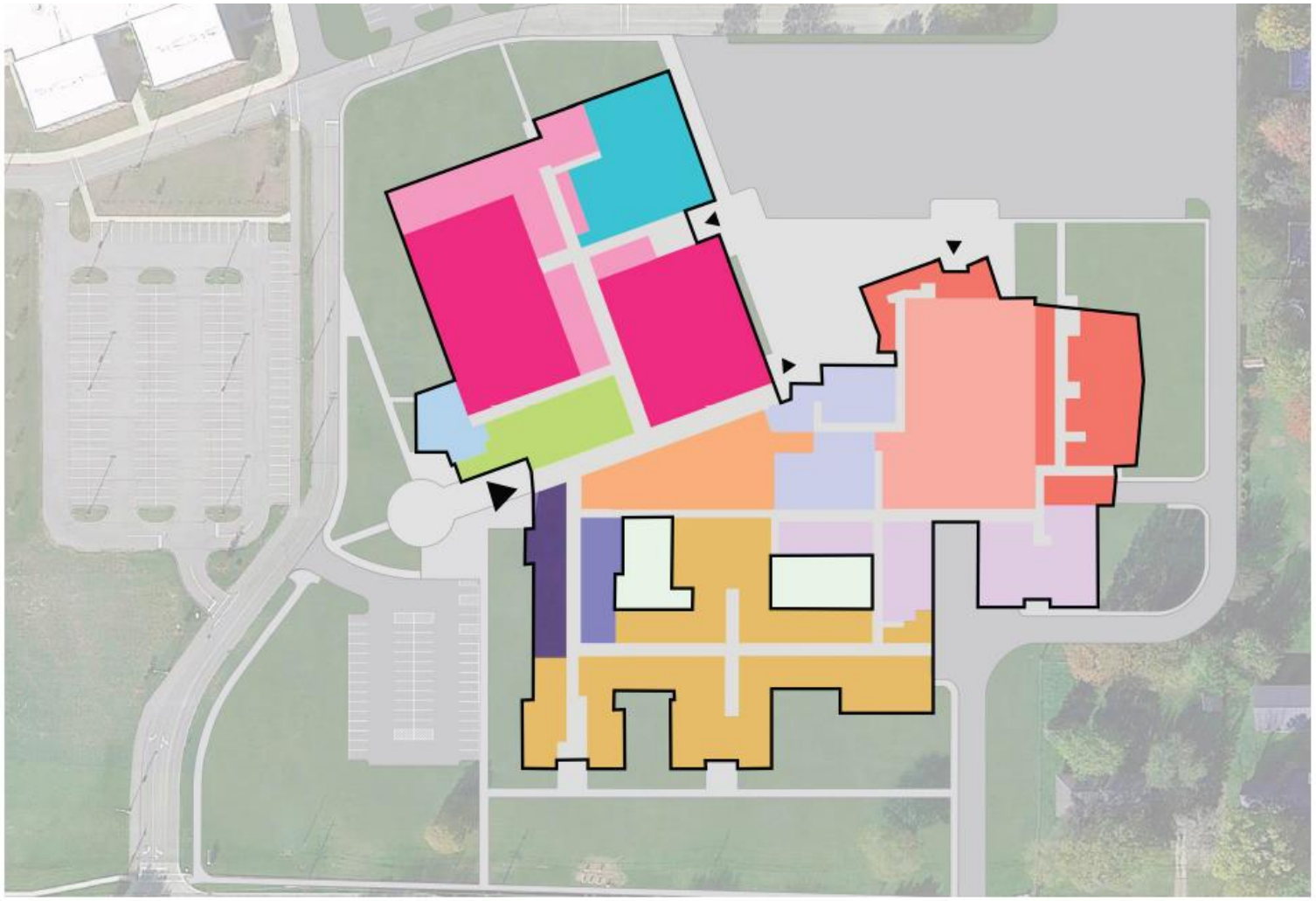
HS STUDENT -	425
HS FACULTY -	234
HS VISITORS -	27
3-8 FACULTY -	307
BOE FACULTY -	16
3-8 VISITORS -	35
TRANSPORTATION -	86
MAINTAINANCE -	8
OVERFLOW -	128

Building Heights



First Floor Diagram

North Ridgeville High School

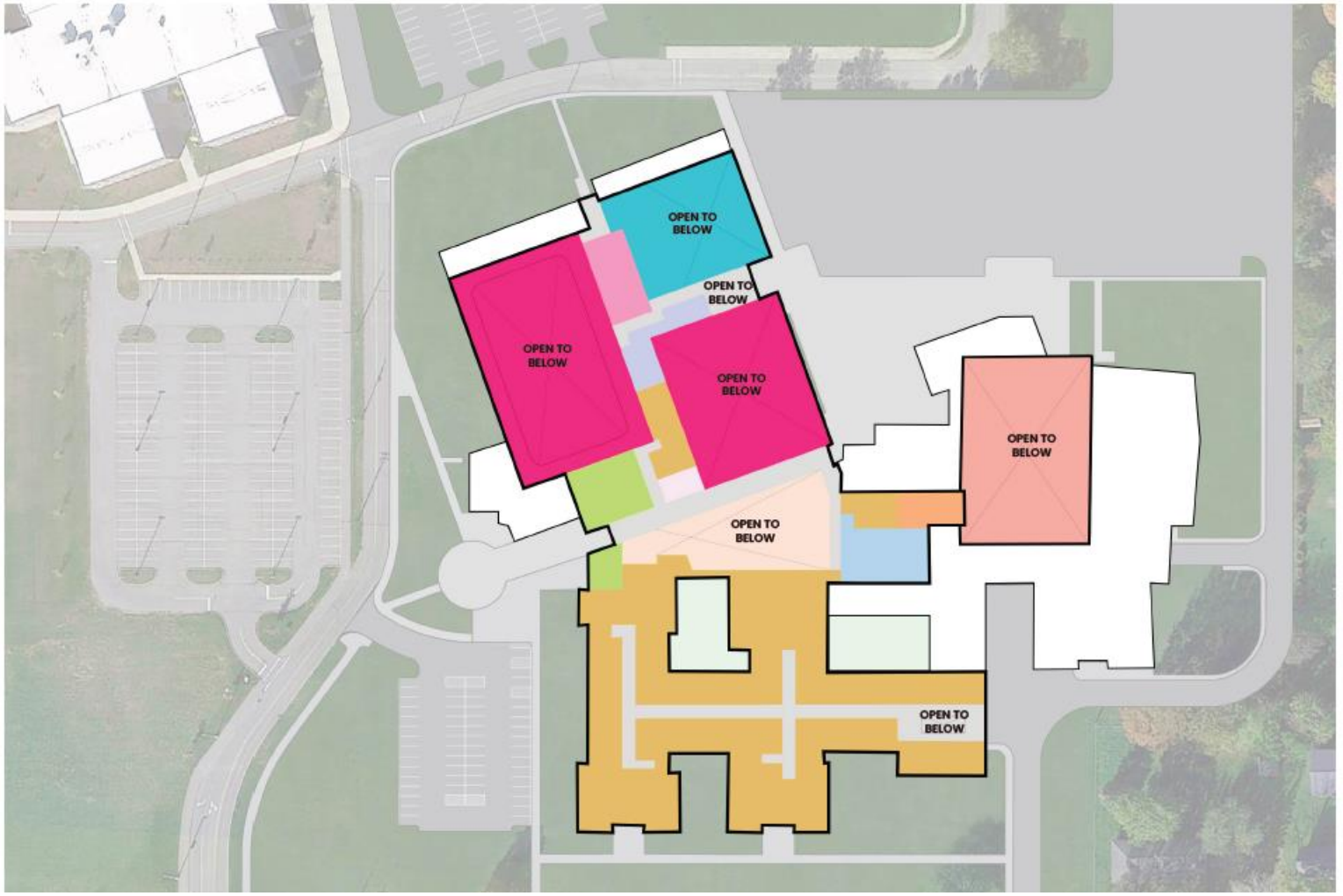


Legend

- Gymnasium
- Athletics
- Natatorium
- Meeting Space
- Administration
- Student Dining
- Kitchen + Mechanical
- Family Consumer Science
- School Store + Business
- Academic Space
- Auditorium
- Music
- Art + Career Tech
- Courtyard

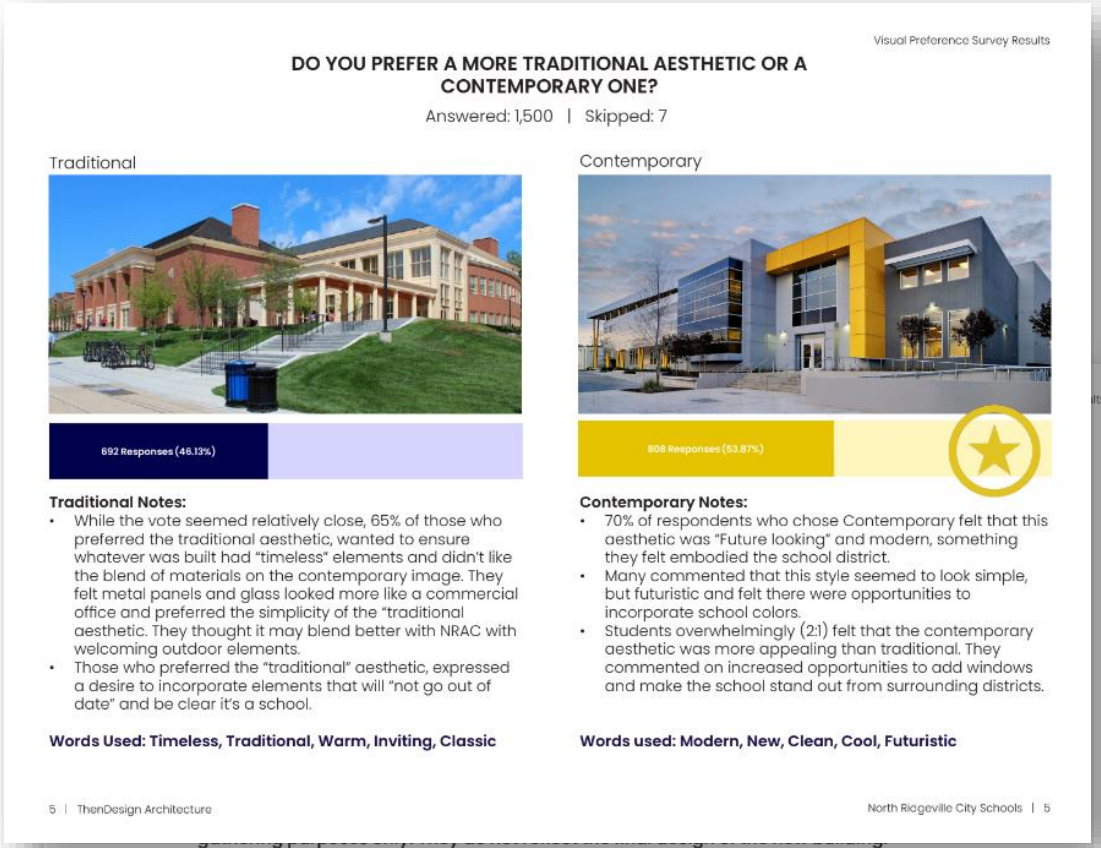
Second Floor Diagram

North Ridgeville High School



Visual Preference

Community Providing Feedback on Exterior Design



Visual Preference Survey Results

DO YOU PREFER A MORE TRADITIONAL AESTHETIC OR A CONTEMPORARY ONE?

Answered: 1,500 | Skipped: 7

Traditional

692 Responses (46.13%)

Traditional Notes:

- While the vote seemed relatively close, 65% of those who preferred the traditional aesthetic, wanted to ensure whatever was built had "timeless" elements and didn't like the blend of materials on the contemporary image. They felt metal panels and glass looked more like a commercial office and preferred the simplicity of the "traditional aesthetic. They thought it may blend better with NRAC with welcoming outdoor elements.
- Those who preferred the "traditional" aesthetic, expressed a desire to incorporate elements that will "not go out of date" and be clear it's a school.

Words Used: Timeless, Traditional, Warm, Inviting, Classic

Contemporary

808 Responses (53.87%)

Contemporary Notes:

- 70% of respondents who chose Contemporary felt that this aesthetic was "Future looking" and modern, something they felt embodied the school district.
- Many commented that this style seemed to look simple, but futuristic and felt there were opportunities to incorporate school colors.
- Students overwhelmingly (2:1) felt that the contemporary aesthetic was more appealing than traditional. They commented on increased opportunities to add windows and make the school stand out from surrounding districts.

Words used: Modern, New, Clean, Cool, Futuristic

5 | ThenDesign Architecture

North Ridgeville City Schools | 5

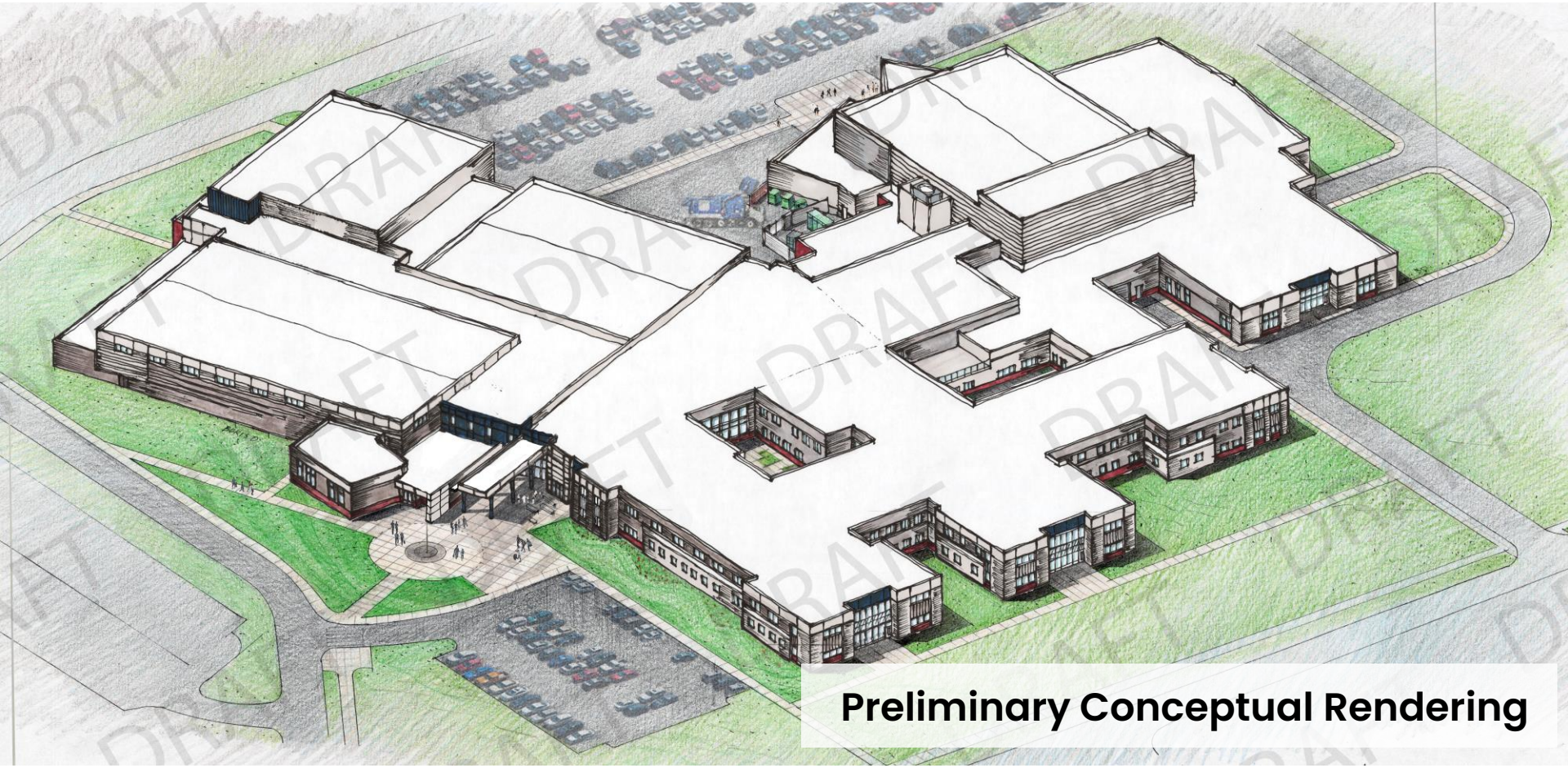
The feedback from this survey will be incorporated into the design process to help guide the exterior aesthetic of the new high school.

1,508	4/10/2024	23 Days
Participants	Survey Launch	Survey Window

- A **transition** from a middle school to a high school environment
- Aspects of a **"Timeless Design"**
- A **Statement Entry**
- An **overhang/ covering** for the Student Entry
- Exterior **Textures**

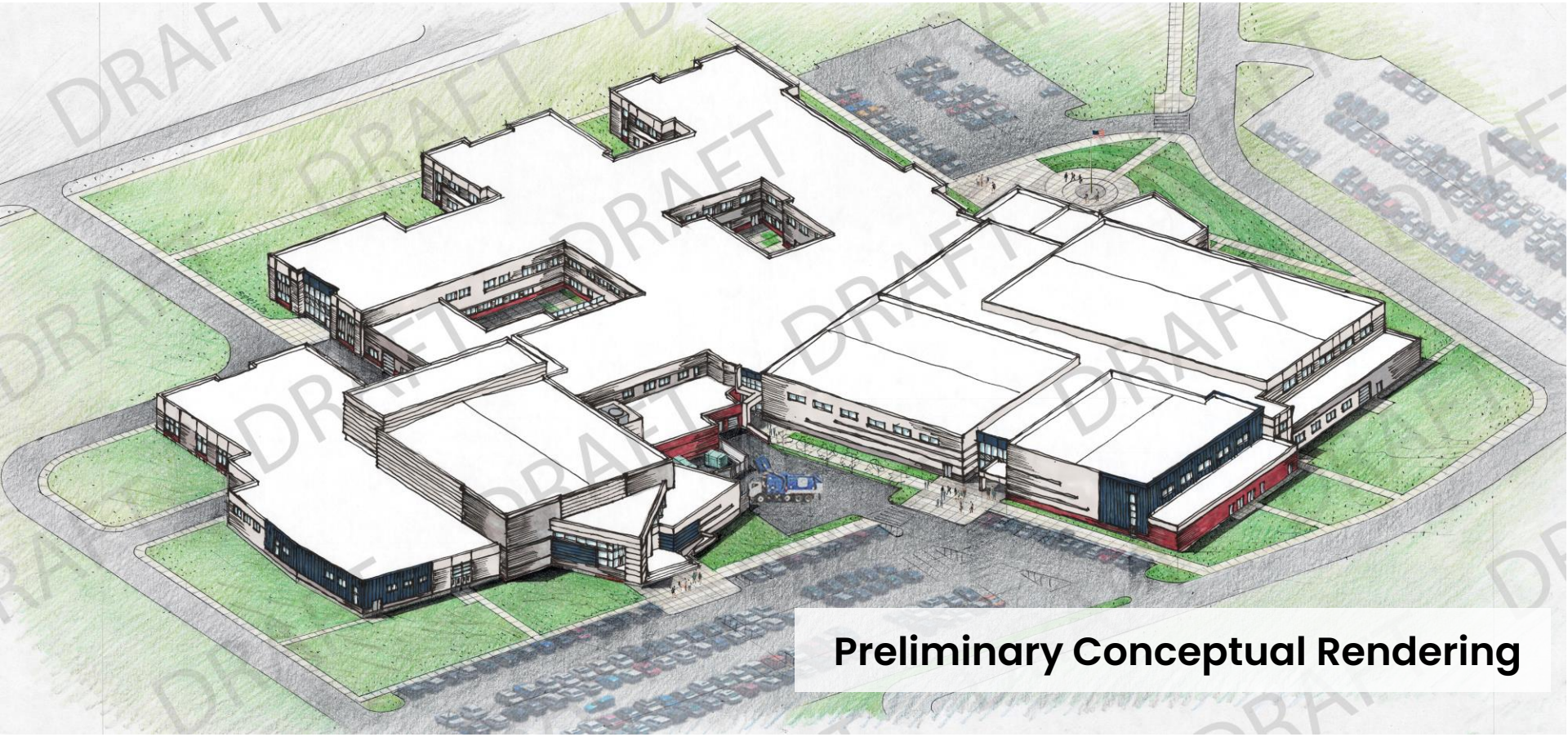
Southwest Exterior Axonometric

North Ridgeville High School



Northeast Exterior Axonometric

North Ridgeville High School



Primary Entrance

North Ridgeville High School



View Along Bainbridge Rd.

North Ridgeville High School



Performing Arts Center Entrance

North Ridgeville High School



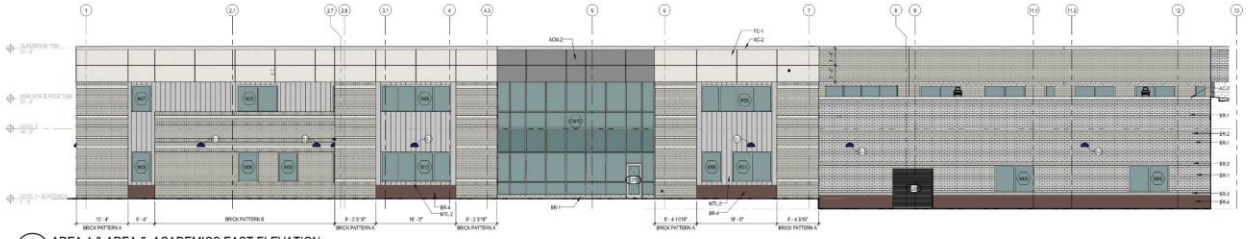
Conceptual Rendering

East Entrance

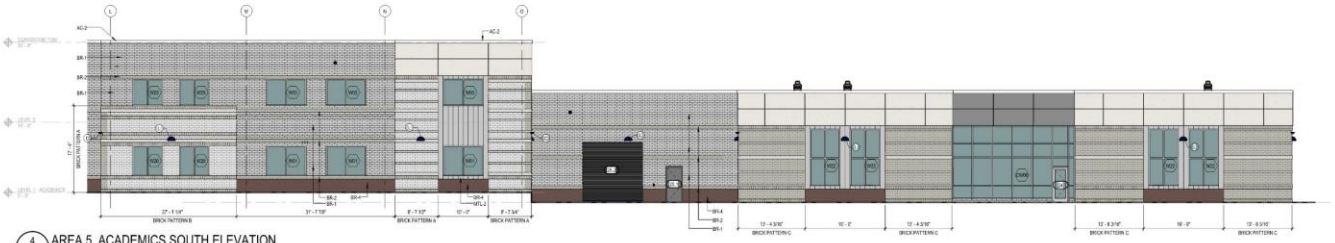
North Ridgeville High School



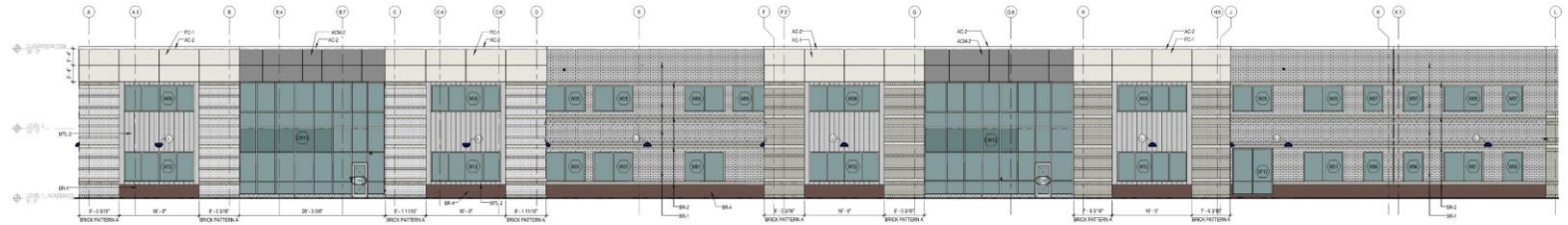
Conceptual Rendering



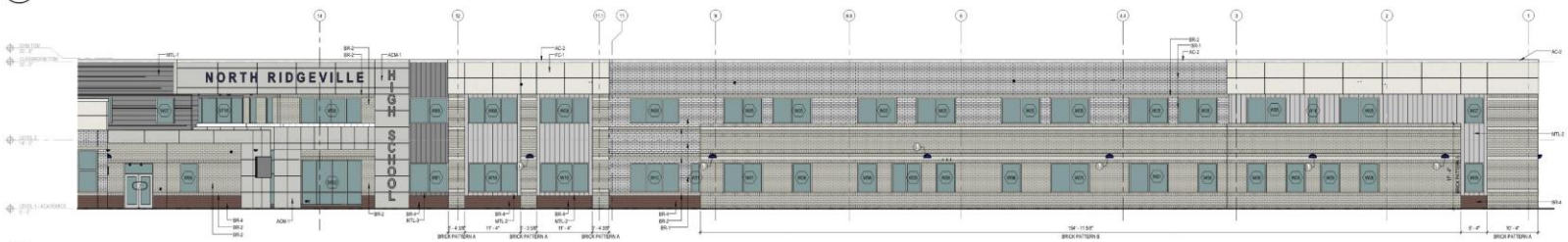
5 A310 AREA 4 & AREA 5, ACADEMICS EAST ELEVATION
SCALE: 1/8" = 1'-0"



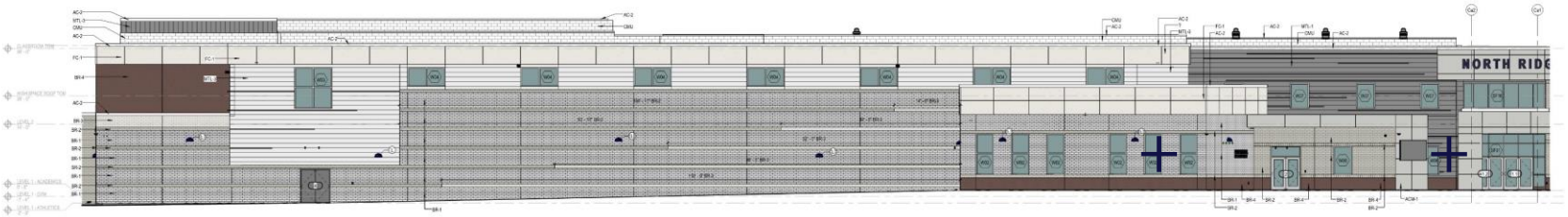
4 A310 AREA 5, ACADEMICS SOUTH ELEVATION
SCALE: 1/8" = 1'-0"



3 A310 AREA 4 & AREA 5, ACADEMICS SOUTH ELEVATION
SCALE: 1/8" = 1'-0"



2 A310 AREA 3 & 4, ACADEMICS WEST ELEVATION
SCALE: 1/8" = 1'-0"



1 A310 AREA 1 & 2, AUXILIARY GYM WEST ELEVATION
SCALE: 1/8" = 1'-0"

EXTERIOR FINISH LEGEND

SYMBOL	MATERIAL
MASONRY	
BR-1	CLAY FACE BRICK - GLEN GARY - OSLO
BR-2	CLAY FACE BRICK - GLEN GARY - COOL GRAY WIRECUT
BR-3	CLAY FACE BRICK - GLEN GARY - ASPEN WHITE WIRECUT
BR-4	CLAY FACE BRICK - GLEN GARY - PIQUA BLEND
CMU	CONCRETE MASONRY UNIT
SFCMU	SPLIT FACE CONCRETE MASONRY UNIT
METAL PANEL	
MTL-1	HORIZONTAL METAL PANEL WITH FINS - DARK BLUE
MTL-2	HORIZONTAL METAL PANEL WITH FINS - SLATE GRAY
MTL-3	HORIZONTAL METAL PANEL - DOVE GRAY
MTL-4	VERTICAL METAL PANEL - DARK BLUE
MTL-5	VERTICAL METAL PANEL - SLATE GRAY
MTL-6	VERTICAL METAL PANEL - DOVE GRAY
ACM-1	ALUMINUM COMPOSITE METAL PANEL DOVE GRAY
ACM-2	ALUMINUM COMPOSITE METAL PANEL DARK BLUE
AC-1	PREFINISHED AL UNIRAM COPING SYSTEM - GRAY
AC-2	PREFINISHED AL UNIRAM COPING SYSTEM - WHITE
WINDOWS / CURTAIN WALL / STOREFRONT	
AWU	ALUMINUM WINDOW UNIT
CW	CURTAIN WALL SYSTEM
SF	STOREFRONT SYSTEM
MISCELLANEOUS	
FC-1	FIBER CEMENT PANEL - LIGHT GRAY
FRP	FRP DOOR UNIT
GFRP	GLASS FIBER REINFORCED PANELS
LV	METAL LOUVER, SEE MECH. ENGS.
PCC	PRECAST COPING UNITS
SIGN-1	18" TALL CAST METAL DIMENSIONAL SIGNAGE - 1 1/4" DEPTH
SIGN-2	12" TALL CAST METAL DIMENSIONAL SIGNAGE - 1" DEPTH
SIGN-3	6" TALL CAST METAL DIMENSIONAL SIGNAGE - 3/4" DEPTH
SIGN-4	12" TALL VINYL SIGNAGE - APPLIED ON GLAZING
SCPR	OVERFLOW SCUPPER
GU-DS	GUTTER W/ DOWNSPOUT

NOTES:
1. OVERFLOW SCUPPER W/ DOWNSPOUT
2. NOT ALL MATERIALS LISTED MAY BE USED
3. TEMPERED GLASS LOCATED AT ALL EXTERIOR GLASS TYPES
4. SEE MECHANICAL DRAWINGS FOR DETAILED INFORMATION ON LOUVERS.

(C) CAMERA; SEE TECHNOLOGY DRAWINGS
(L) LIGHT FIXTURE; SEE ELECTRICAL DRAWINGS
(CR) CARD READER; SEE TECHNOLOGY DRAWINGS
(D) DOOR OPENER BUTTON; SEE ELECTRICAL DRAWINGS

tda thendesign architecture

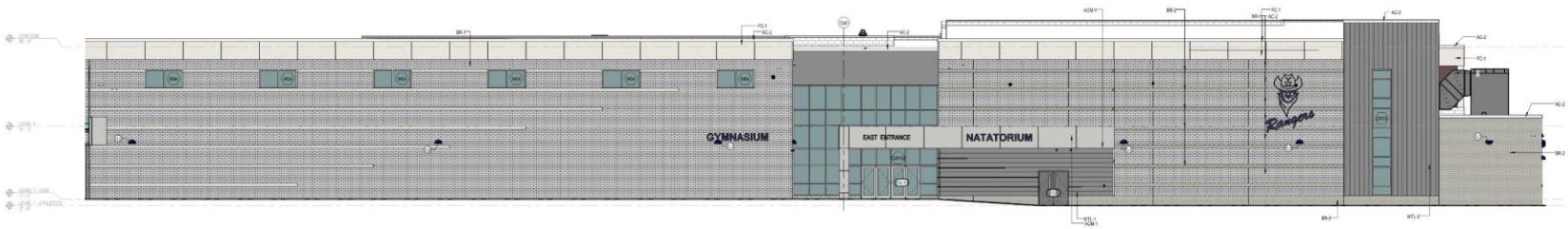
NORTH RIDGEVILLE HIGH SCHOOL
NORTH RIDGEVILLE CITY SCHOOL DISTRICT
34610 BAMBRIDGE RD, NORTH RIDGEVILLE, OH 44039

no.	description	date
Sheet Revisions		
03	PC	03/18/25
02	SD	12/20/24
01	SD	09/28/24
no.	description	date
Project Issues		

drawn by: TDA
checked by: TDA
sheet number: A310



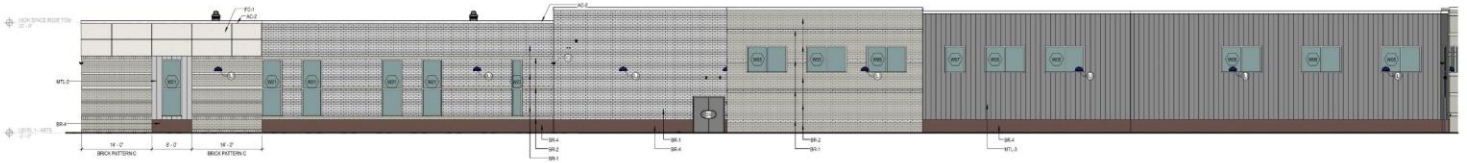
4 A311 AREA 1, ATHLETICS NORTH ELEVATION
SCALE: 1/8" = 1'-0"



3 A311 AREA 1 & 2, ATHLETICS EAST ELEVATION
SCALE: 1/8" = 1'-0"



2 A311 AREA 6, NORTH ELEVATION
SCALE: 1/8" = 1'-0"



1 A311 AREA 5 & AREA 6, EAST ELEVATION
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tda thendesign architecture

NORTH RIDGEVILLE HIGH SCHOOL
NORTH RIDGEVILLE CITY SCHOOL DISTRICT
34610 BAMBRIDGE RD, NORTH RIDGEVILLE, OH 44039

no.	description	date

Sheet Revisions

no.	description	date
00	PC	03/18/25
02	SD	12/20/24
01	SD	09/28/24

Project Issues

drawn by: TDA
checked by: TDA
sheet number: A311

TIMELINE: BUILDING PROGRAM



2025 | 2026 | 2027 | 2028

EARLY SITE

HS BUILDING CONSTRUCTION

DEMO HS

TRANSPORTATION

Transportation Opens
January 2026

High School Opens
2028-29 SY

tda
thendesign architecture

HAMMOND

CONSTRUCTION PHASING & LOGISTICS

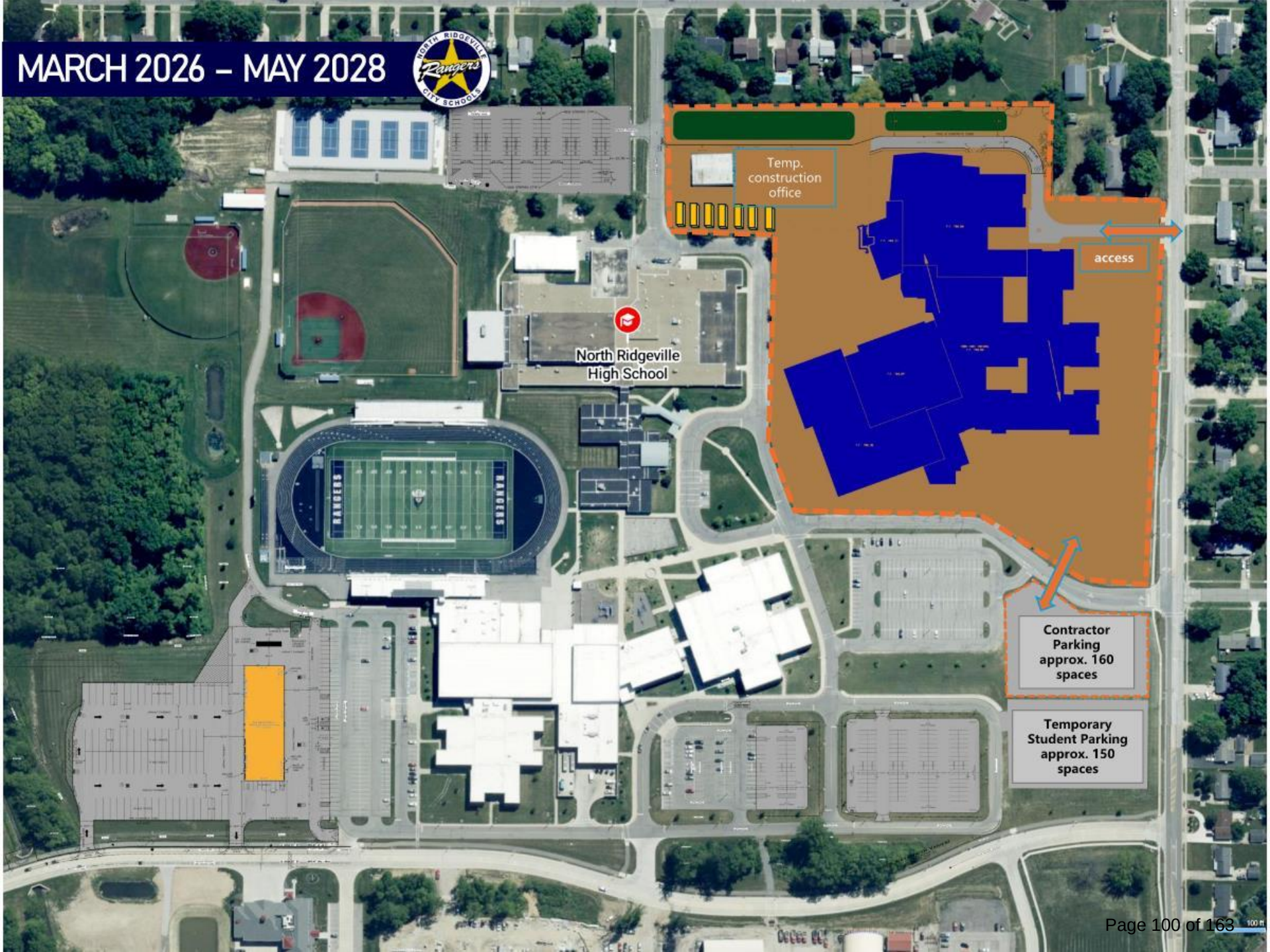

APRIL 2025
North Ridgeville Rangers City Schools
North Ridgeville High School
RANGERS
RANGERS
CONSTRUCTION ZONE


SUMMER 2025
buses
Temp. stone
access
North Ridgeville High School
CONSTRUCTION ZONE
CONSTRUCTION ZONE
CONSTRUCTION ZONE


SEPTEMBER 2025
buses
Temp. stone
access
North Ridgeville High School
CONSTRUCTION ZONE
CONSTRUCTION ZONE
CONSTRUCTION ZONE
Temporary Stone Lot (Student Parking – approx. 300 spaces)

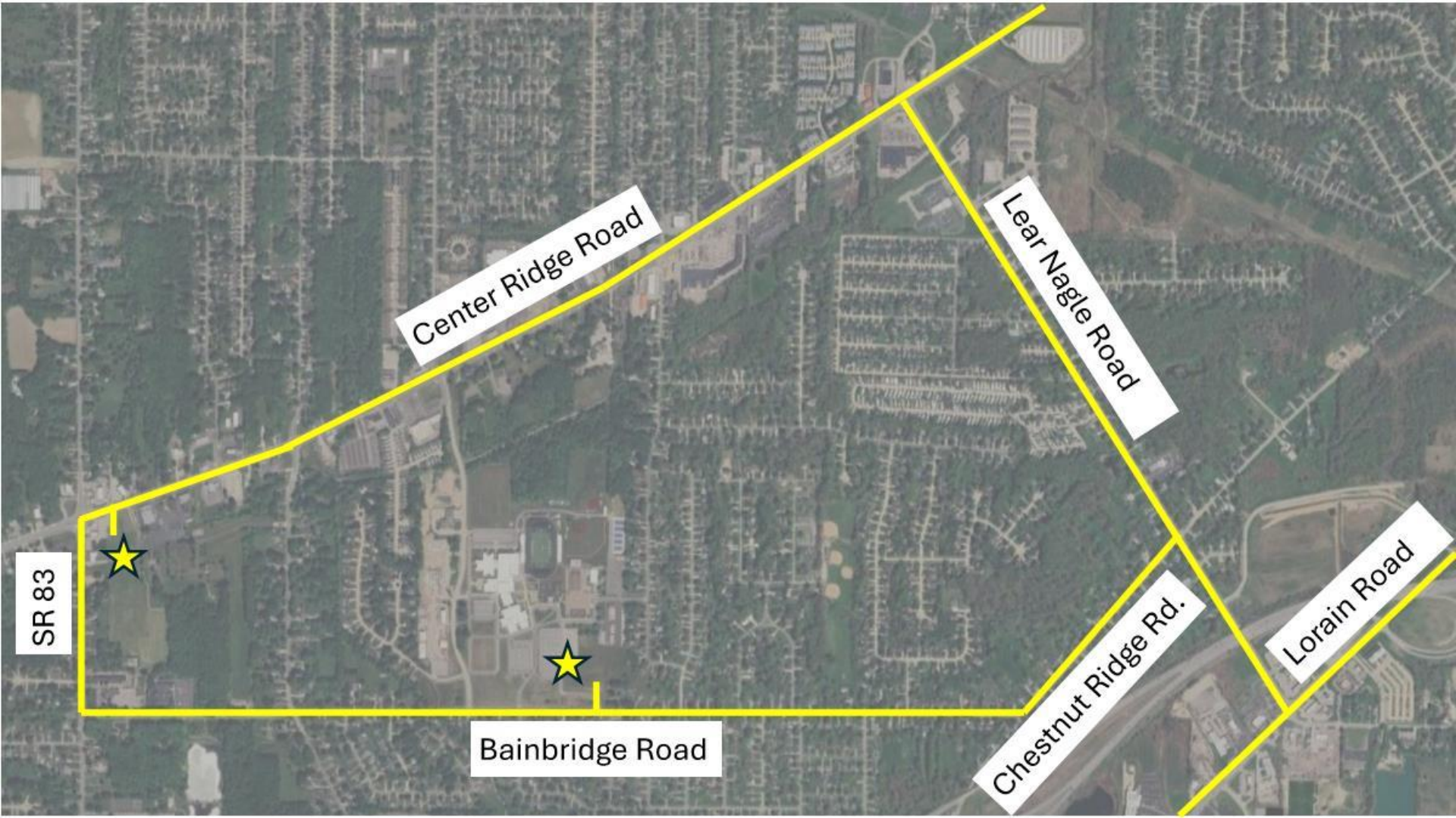

DECEMBER 2025
buses
Temp. stone
access
North Ridgeville High School
CONSTRUCTION ZONE
CONSTRUCTION ZONE
Temporary Stone Lot (Student Parking – approx. 300 spaces)


FEBRUARY 2026
Restripe lot
DEMO
access
North Ridgeville
High School
CONSTRUCTION ZONE
Contractor
Parking
approx. 160
spaces
Temporary
Student Parking
approx. 150
spaces


MARCH 2026 – MAY 2028
Temp. construction office
access
North Ridgeville High School
Contractor Parking approx. 160 spaces
Temporary Student Parking approx. 150 spaces


FALL 2028
T&M
ACADEMIC CENTER
NRHS
RANGER WAY
BAINBRIDGE RD
NORTH RIDGEVILLE
Rangers
CITY SCHOOLS

Proposed Construction Traffic Routes




Thank You!

REFER TO PHASE 1
DRAWINGS FOR INFORMATION

REFER TO PHASE 1
DRAWINGS FOR INFORMATION

T.B.M. #8
Top Nut of Hydrant
Elevation - 733.74'

T.B.M. #5
Top Nut of Hydrant
Elevation - 734.98'

T.B.M. #10
Top Nut of Hydrant
Elevation - 733.97'

T.B.M. #1
Top Nut of Hydrant
Elevation - 734.37'

DETENTION BASIN (PHASE 1)

WATER QUALITY BASIN (PHASE 1)

TYPE 6 CONCRETE CURB

ASPHALT PAVEMENT

CONCRETE WALK

F.F. 736.00

F.F. 739.33

F.F. 738.00

F.F. 736.67

F.F. 735.33

SERVICE YARD

COURTYARD EAST

COURTYARD WEST

NEW HIGH SCHOOL

RANGERS

BAINBRIDGE ROAD (WIDTH VARIES)
(DEDICATION VOLUME 103, PAGES 104-105)
(A PUBLIC RIGHT-OF-WAY)

2090.08' Obs.

1288.01' Calc. - Meas.

LEGEND

M = Monument Box Found	PROPOSED = Spot Elevation Tag	Ex. Parcel line	Ac. Acres	L.C.A. Limited Common Area
O = Iron Pin or Pipe Found	Hydrant	Original Sublot Line	Adj. Adjacent	Meas./M. Measured
● = 5/8" Iron Pin Set and Capped Riverstone Company Dudley PS8747	Water Service Valve	Original Lot Line	Asp. Asphalt	MH Manhole
P.K. Nail	Water Valve	Centerline	B.F. Basement Floor	Obs. Observed
Gas Meter	Water Meter	Property Line	Calc./C. Calculated	Pg. Page
Gas Valve	Reducer	Right-of-way Line	CB Catch Basin	P.P.N. Permanent Parcel Number
Utility Pole	Storm Manhole	Easement Line	C.C.M.R. Cuyahoga County Map Records	P Property Line
Light Pole	Sanitary Manhole	Railroad Tracks	& Centerline	Rec./R. Record
Guy Anchor & Line	Curb Inlet	Electric Line	C.L.F. Chain-link Fence	R/W Right-of-way
Telephone Box	Catch Basin	Gas Line	Clr. Clears	San. Sanitary
Electric Box	Round Curb Inlet	Sanitary/Combination Sewer	Conc. Concrete	S.F. Square Feet
Cable Box	Cleanout/Test Tee	Storm Sewer	Conn. Connection	S/L Sublot
Bollard		Waterline	D.H. Drill Hole	Stm. Storm
		Fence Line (Wooden)	D.I.W.M. Ductile Iron Water Main	T.B.M. Temporary Bench Mark
		Fence Line (Chain-Link)	Elec. Electric	TBR To Be Removed
		Guardrail	Encr. Encroaches	Tele Telephone
			Ex. Existing	T.F. Top Footer
			F.F. Finished Floor	Vol. Volume
				Wat Water

PAVEMENT LEGEND:

- ASPHALT PAVEMENT
- REINFORCED CONCRETE PAVEMENT
- CONCRETE WALKS

NOTES:

1. END CURB PER END CURB TAPER DETAIL, SEE DETAIL SHEET C6.01.
2. DETECTABLE WARNINGS, TRUNCATED DOMES, SEE DETAIL SHEET C6.02.
3. ADA PARKING STALL AND SIGN, SEE DETAIL SHEET C6.01.
4. SEAL JOINT BETWEEN EXISTING PAVEMENT AND PROPOSED ASPHALT PAVEMENT PER ODOT ITEM 705.04.
5. CONCRETE COLLAR. SEE DETAIL SHEET C6.01.

GRAPHIC SCALE
40 0 20 40 60
(IN FEET)
1 inch = 40 ft.

RIVERSTONE
LAND SURVEYING - ENGINEERING - DESIGN
3800 LAKESIDE AVENUE - SUITE 100
CLEVELAND - OHIO - 44114
PHONE: (216) 491-2000 FAX: (216) 491-9640
WWW.RIVERSTONESURVEY.COM
2024-197

Preliminary Not for Construction

tda thendesign architecture

NORTH RIDGEVILLE HIGH SCHOOL PHASE 2
NORTH RIDGEVILLE CITY SCHOOL DISTRICT
34610 BAINBRIDGE RD. NORTH RIDGEVILLE, OH 44039

no.	description	date
	Sheet Revisions	

no.	description	date
04	Planning Commission	05/16/25
03	DD	12/20/24
02	Planning Commission	11/15/24
01	SD	06/28/24
	Project Issues	

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sheet name: OVERALL SITE PLAN
drawn by:
checked by:
sheet number: C3.01
job number: 23099

SITE PLANTING SCHEDULE

Code	Qty.	Botanical Name	Common Name	Size	Notes
AC-BO	18	Acer r. 'Bowhall'	Bowhall Maple	2" Cal.	B&B
AC-BK	4	Acer r. 'Brandywine'	Brandywine Maple	2" Cal.	B&B
AC-GM	6	Acer s. 'Green Mountain'	Green Mountain Sugar Maple	2" Cal.	B&B
AC-RS	11	Acer r. 'Red Sunset'	Red Sunset Maple	2" Cal.	B&B
AM-AB	11	Amelanchier x g. 'Autumn Brilliance'	Autumn Brilliance Serviceberry	2" Cal.	B&B, Single Stem
BE-H	3	Betula nigra 'Heritage'	Heritage River Birch	7'	B&B, Multi-Stem
BE-C	7	Betula nigra 'Cully'	Heritage River Birch	7'	B&B, Single-stem
MG-VI	2	Magnolia virginiana	Sweetbay Magnolia	7'	B&B
OS-VI	4	Ostrya virginiana	Amencan Hophornbeam	2" Cal.	B&B
PI-AB	6	Pica abies	Norway Spruce	6'	B&B
PI-ST	7	Pinus strobus	Eastern White Pine	6'	B&B, Unsheared
PL-AB	3	Platanus x a. 'Bloodgood'	Bloodgood London Planetree	2" Cal.	B&B
PL-AE	3	Platanus x a. 'Exclamation!'	Exclamation London Planetree	2" Cal.	B&B
QU-AB	19	Quercus alba	White Oak	2" Cal.	B&B
QU-R	12	Quercus rubra	Red Oak	2" Cal.	B&B
TH-GG	20	Thuja p. 'Green Giant'	Green Giant Western Arborvitae	6'	B&B

1 / L101 SITE LANDSCAPE PLAN
SCALE: 1" = 40'-0"

2 WORKING DAYS BEFORE YOU DIG CALL TOLL FREE 800-362-2764

NORTH

0 40 80 120

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McCue Design Group, LLC
LANDSCAPE ARCHITECTS
P.O. BOX 234
WILLOUGHBY, OHIO 44096
216.870.7942 tel

NORTH RIDGEVILLE HIGH SCHOOL
NORTH RIDGEVILLE CITY SCHOOL DISTRICT
34620 BAINBRIDGE RD. NORTH RIDGEVILLE, OH 44039

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03	PLANNING COMMISSION	05/16/25
02	DD - LANDSCAPE	12/20/24
01	SD - LANDSCAPE	11/13/24

Project Issues

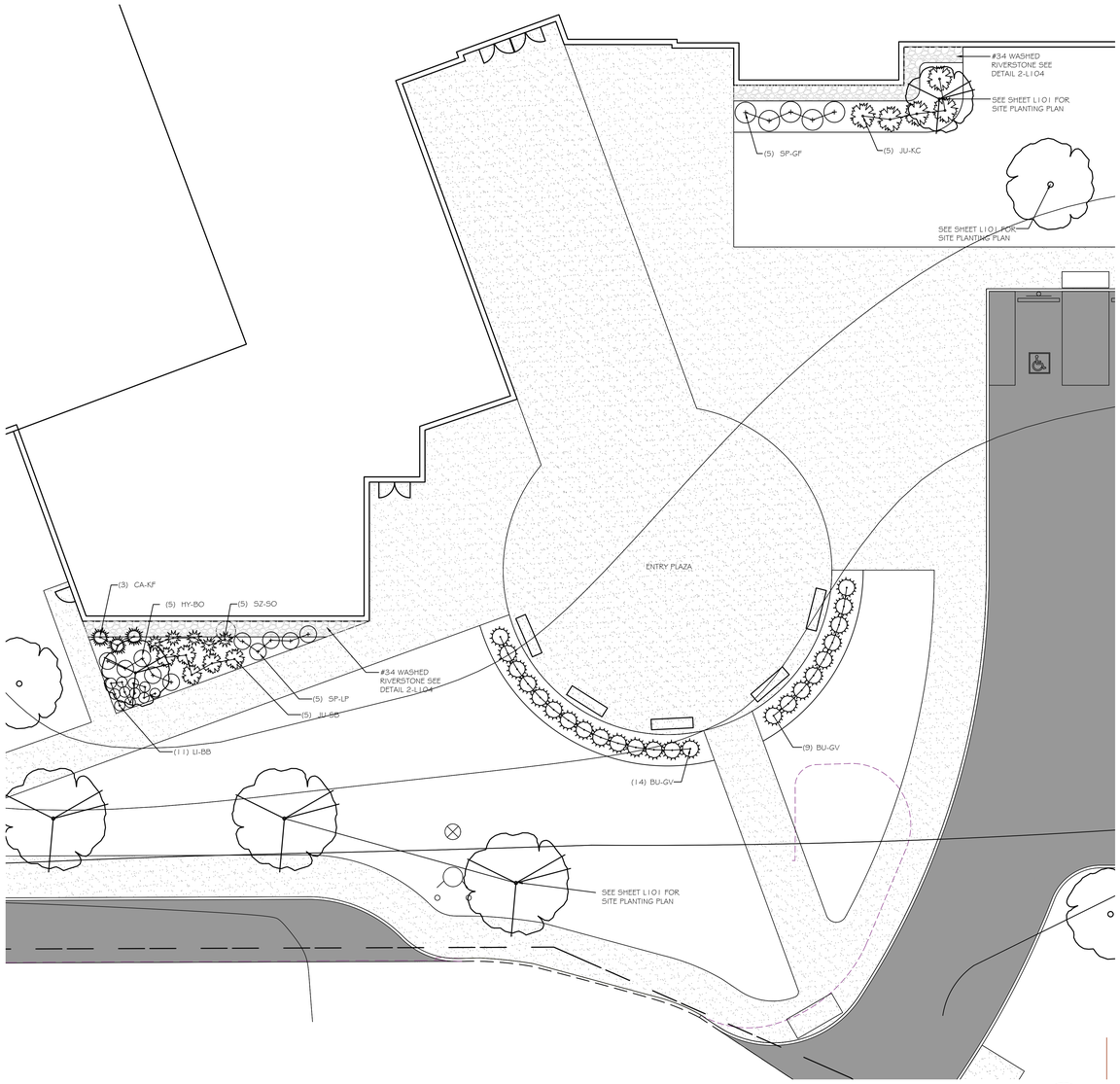
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SITE LANDSCAPE PLAN

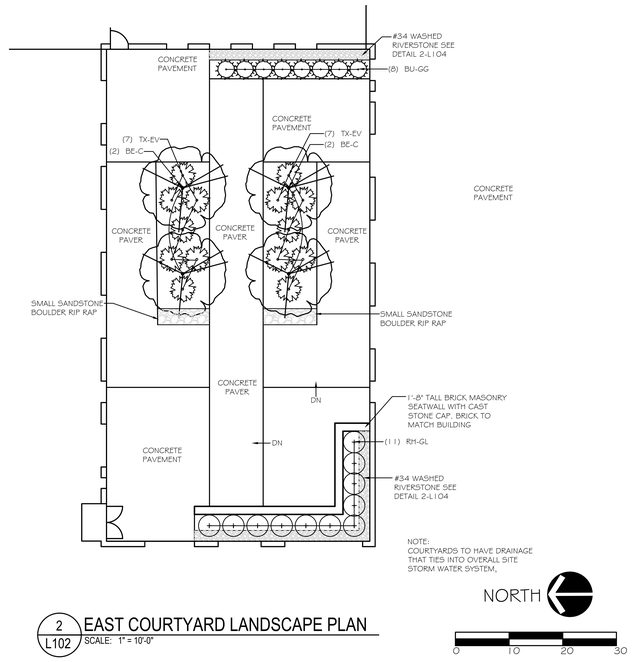
drawn by: MTM
checked by: MTM
sheet number: L101
job number: 23099

PLANTING SCHEDULE COURTYARDS & ENTRY PLAZA

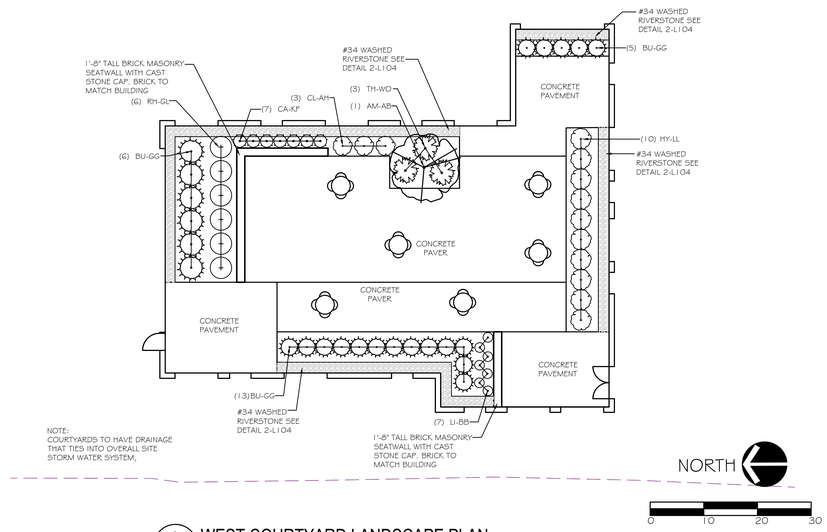
Code	Qty.	Botanical Name	Common Name	Size	Notes
AM-AB	1	Amelanchier x g. 'Autumn Brilliance'	Autumn Brilliance Serviceberry	2" Cal.	B&B, Single Stem
BE-C	4	Betula nigra 'Cully'	Heritage River Birch	7'	B&B; Single-stem
BU-GG	32	Buxus x 'Green Gem'	Green Gem Boxwood	15"	B&B
BU-GV	23	Buxus x 'Green Velvet'	Green Velvet Boxwood	18"	B&B
CA-KF	10	Calamagrostis x 'Karl Foerster'	Karl Foerster Feather Reed Grass	#2 Cont.	
CL-AH	3	Clethra a. 'Hummingbird'	Hummingbird Summersweet	#3 Cont	
HY-LL	10	Hydrangea p. ' Little Lime'	Little Lime Hydrangea	#5 Cont.	
HY-BO	5	Hydrangea p. 'Bobo'	Bobo Hydrangea	#3 Cont.	
JU-KC	5	Juniperus ch. 'Kallay's Compact'	Kallay's Compact Pfitzer Juniper	#5 Cont.	
JU-SB	5	Juniperus s. 'Broadmoor'	Broadmoor Juniper	#5 Cont.	
LI-BB	18	Linope 'Big Blue'	Linope	#1 Cont.	
RH-GL	17	Rhus a. 'Gro-low'	Gro-low Fragrant Sumac	#3 Cont.	
SP-GF	5	Spiraea x b. 'Goldflame'	Goldflame Spiraea	#5 Cont.	
SP-LP	5	Spiraea j. 'Lemon Princess'	Lemon Princess Spiraea	#3 Cont.	
SZ-SO	5	Schizachyrum s. 'Standing Ovation'	Standing Ovation Little Bluestem	#2 Cont.	
TH-WO	3	Thuja o. 'Woodwardii'	Woodward Globe Arborvitae	24"	Cont.
TX-EV	14	Taxus x m. 'Everlow'	Everlow Yew	18"	B&B



1 L102 ENTRY PLAZA LANDSCAPE PLAN
SCALE: 1" = 10'-0"



2 L102 EAST COURTYARD LANDSCAPE PLAN
SCALE: 1" = 10'-0"



3 L102 WEST COURTYARD LANDSCAPE PLAN
SCALE: 1" = 10'-0"

McCue Design Group, LLC
LANDSCAPE ARCHITECTS
P.O. BOX 224
WILLOUGHBY, OHIO 44096
216.870.7842 tel

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NORTH RIDGEVILLE HIGH SCHOOL
NORTH RIDGEVILLE CITY SCHOOL DISTRICT
34620 BAINBRIDGE RD. NORTH RIDGEVILLE, OH 44039

no.	description	date
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02	DD - LANDSCAPE	12/20/24
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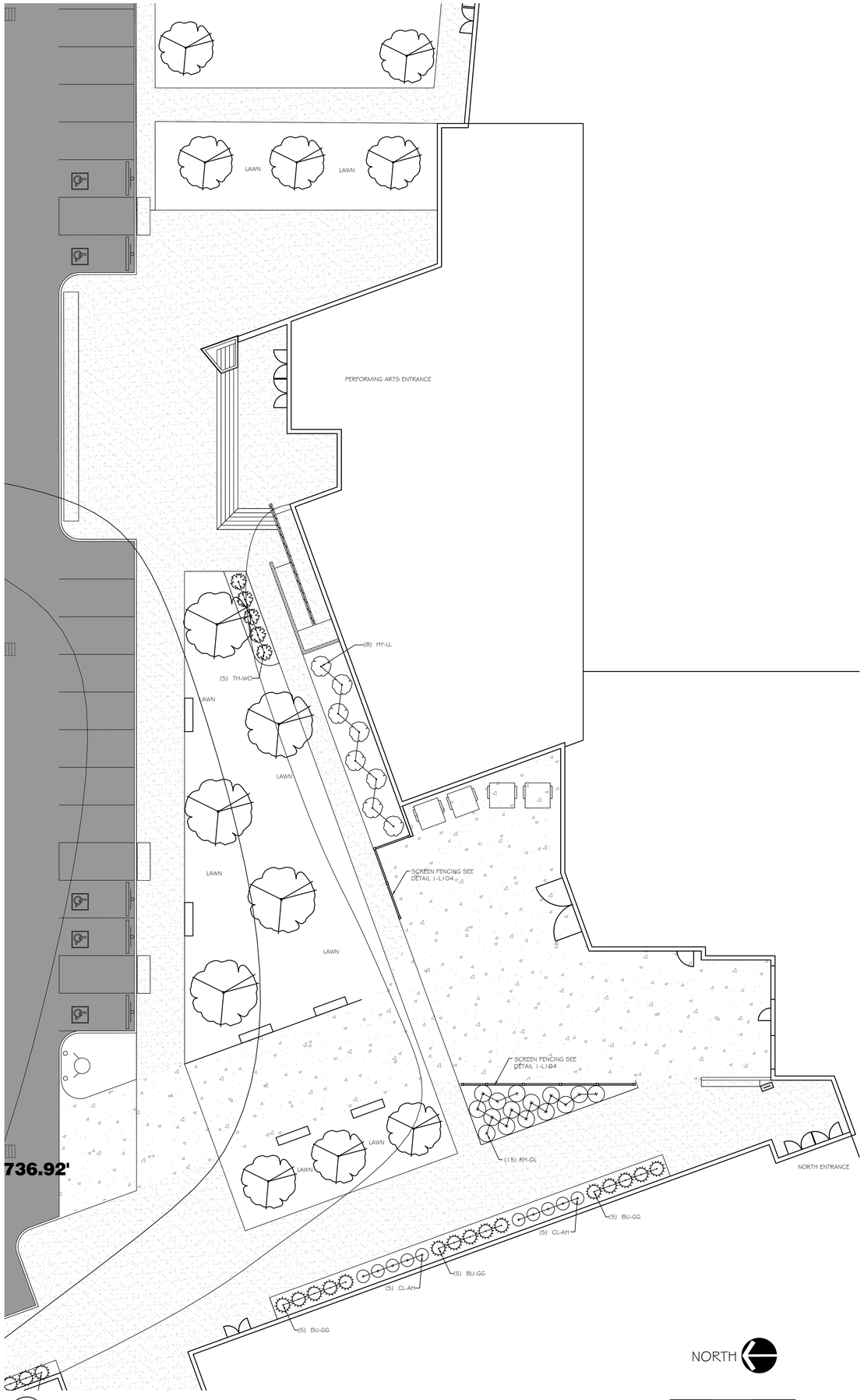
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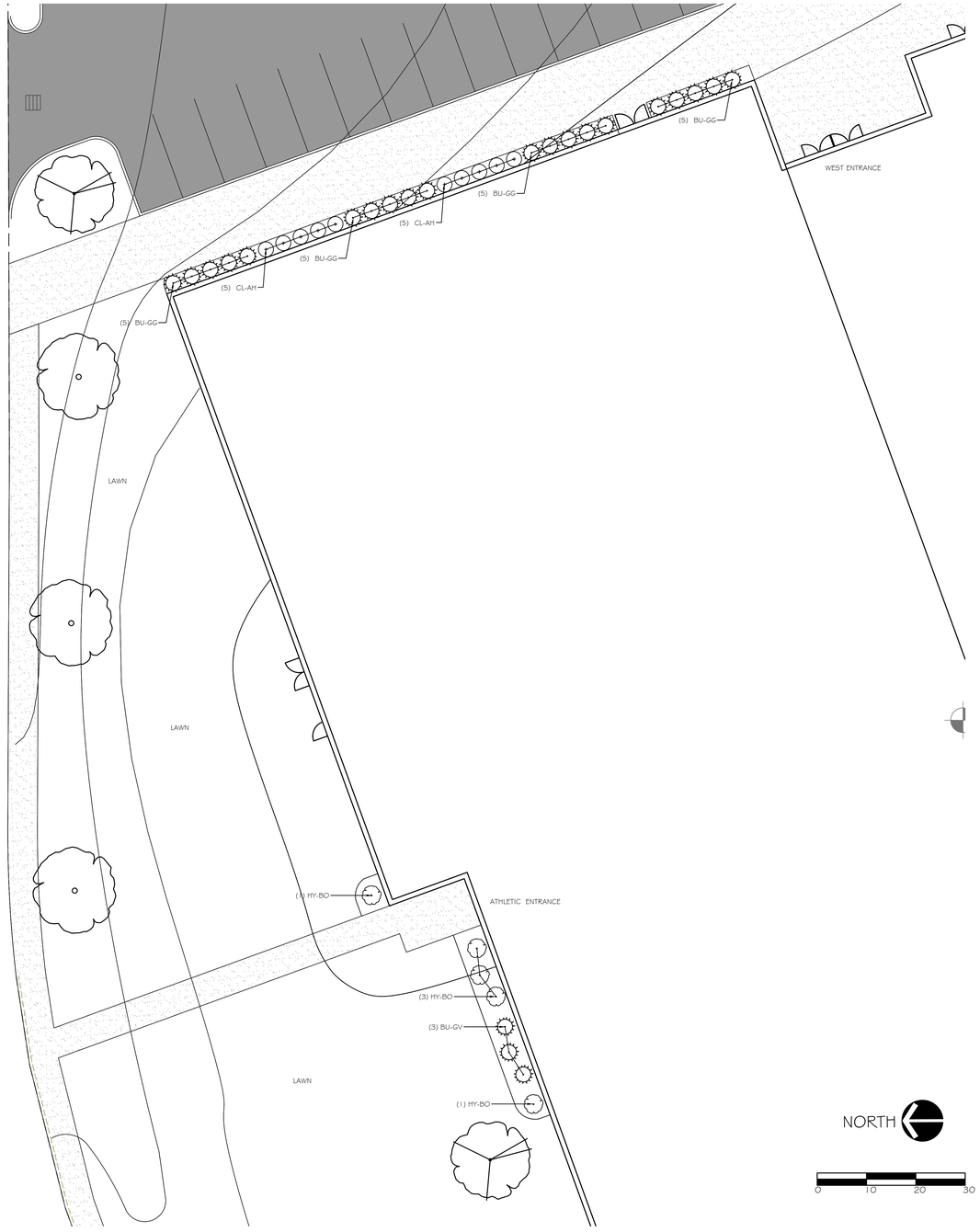
sheet name: COURTYARD LANDSCAPE PLAN - ENLARGEMENT

drawn by: MTM
checked by: MTM
sheet number: L102
job number: 23099

PLANTING SCHEDULE PERFORMING ARTS CENTER & ATHLETIC WING					
Code	Qty.	Botanical Name	Common Name	Size	Notes
BU-GG	35	Buxus x 'Green Gem'	Green Gem Boxwood	15"	B&B
BU-GV	3	Buxus x 'Green Velvet'	Green Velvet Boxwood	18"	B&B
CL-AH	20	Clethra a. 'Hummingbird'	Hummingbird Summersweet	#3 Cont.	
HY-LL	8	Hydrangea p. ' Little Lime'	Little Lime Hydrangea	#5 Cont.	
HY-BO	5	Hydrangea p. 'Bobo'	Bobo Hydrangea	#3 Cont.	
RH-GL	15	Rhus a. 'Gro-low'	Gro-low Fragrant Sumac	#3 Cont.	
TH-WO	5	Thuja o. 'Woodwardii'	Woodward Globe Arborvitae	24"	Cont.



1 L103 PERFORMING ARTS CENTER ENTRY LANDSCAPE PLAN
SCALE: 1" = 10'-0"



2 L103 ATHLETIC WING LANDSCAPE PLAN
SCALE: 1" = 10'-0"

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NORTH RIDGEVILLE CITY SCHOOL DISTRICT
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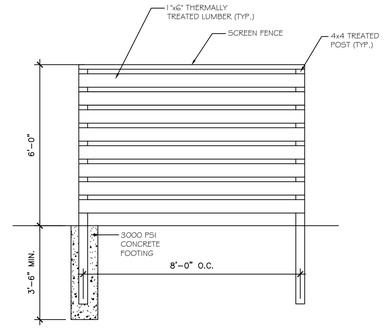
no.	description	date
03	PLANNING COMMISSION	05/16/25
02	DD - LANDSCAPE	12/20/24
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Project Issues

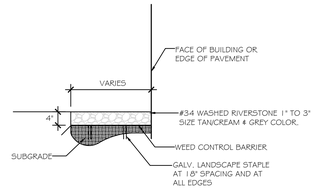
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COURTYARD LANDSCAPE PLAN - ENLARGEMENT

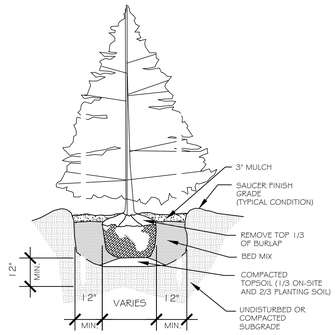
drawn by:
MTM
checked by:
MTM
sheet number:
L103
job number:
23099



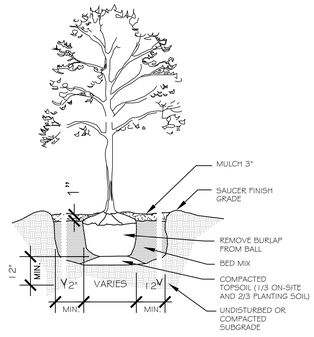
1 L104 **6' SCREEN FENCING**
SCALE: 1/2" = 1'-0"



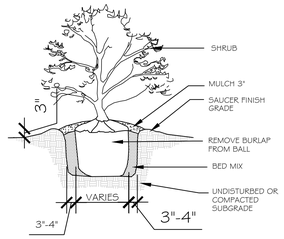
2 L104 **#34 WASHED RIVERSTONE DETAIL**
SCALE: 1/2" = 1'-0"



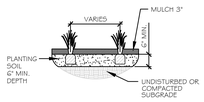
EVERGREEN TREE PLANTING
NOT TO SCALE



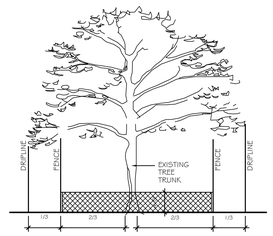
DECIDUOUS TREE PLANTING
NOT TO SCALE



SHRUB PLANTING
NOT TO SCALE



PERENNIAL PLANTING
NOT TO SCALE

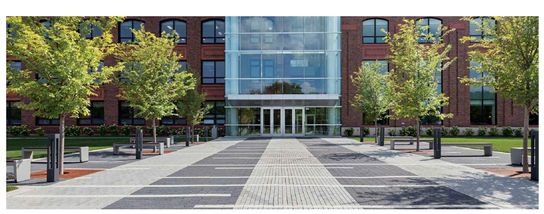


FENCE TO BE ORANGE CONSTRUCTION FENCE WITH METAL POSTS PLACED O.C. AROUND DRIPLINE AS REQUIRED TO HOLD FENCE TAUGHT. APPLY TO ALL EXISTING TREES TO REMAIN

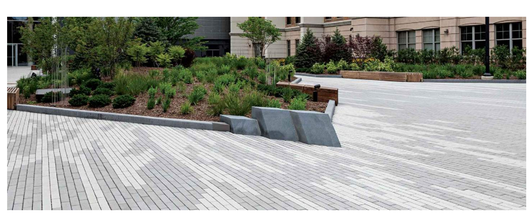
PROTECTIVE FENCING
NOT TO SCALE

TREE PROTECTON METHODS TO BE IMPLEMENTED FOR ANY TREES TO REMAIN ON-SITE:
1. ALL TREES OR GROUPS OF TREES TO BE PRESERVED SHALL BE MARKED WITH A BLUE COLORED RIBBON PRIOR TO CLEARING.
2. PRIOR TO ANY CONSTRUCTION OR GRADING, A PROTECTIVE FENCE BARRIER, FENCE, POSTS, AND/OR SIGNS SHALL BE PLACED AROUND THE TREES TO BE PRESERVED.
3. PROTECTION BARRIERS SHALL BE LOCATED NO CLOSER THAN TWO-THIRDS OF THE DISTANCE FROM THE TREE TRUNK TO THE DRIPLINE.
4. NO BUILDING MATERIALS, EQUIPMENT, VEHICLES OR CHEMICALS SHALL BE STORED OR PLACED IN THE PROTECTION AREA OF THE DRIPLINE.
5. SURFACE GRADE SHALL NOT BE CHANGED MORE THAN 6" WITHIN THE PROTECTED AREA WITHOUT THE INSTALLATION OF AN AERATION SYSTEM, WELLS OR RETAINING WALLS.
6. NO WIRES, BOARDS, NAILS, SIGNS, FENCES OR OTHER ATTACHMENT SHALL BE MADE TO A TREE TO BE PRESERVED.

3 L104 **PLANTING DETAILS**
SCALE: NOT TO SCALE

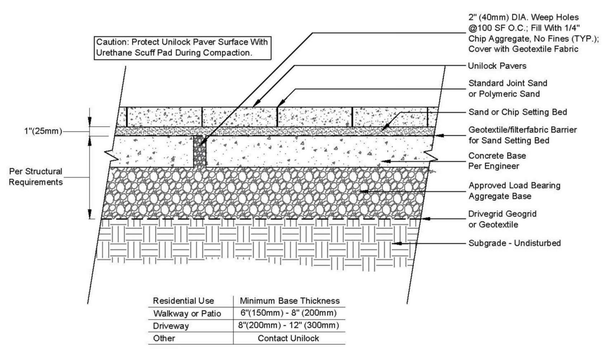


PRE CAST UNILOCK CONCRETE PAVER OR EQUAL



PRE CAST UNILOCK CONCRETE PAVER OR EQUAL

5 L104 **COURTYARD PAVER**
SCALE: NOT TO SCALE



Residential Use	Minimum Base Thickness
Walkway or Patio	6"(150mm) - 8" (200mm)
Driveway	8"(200mm) - 12" (300mm)
Other	Contact Unilock

Note:
This cross section is intended for preliminary design purposes only. Confirm site conditions and consult with a qualified design professional or installer prior to installation.

6 L104 **PAVER DETAIL**
SCALE: NOT TO SCALE

McCue Design Group, LLC
LANDSCAPE ARCHITECTS
P.O. BOX 224
WILLOUGHBY, OHIO 44096
216.870.7842 tel

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NORTH RIDGEVILLE HIGH SCHOOL
NORTH RIDGEVILLE CITY SCHOOL DISTRICT
34620 BAINBRIDGE RD. NORTH RIDGEVILLE, OH 44039

no.	description	date
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drawn by: MTM
checked by: MTM
sheet number: L104
job number: 23099

CODED NOTES - ARCH PLAN

GENERAL NOTES - ARCHITECTURAL

1. FOR CEILING PLANS, SEE A200s.
2. SEE A900s FOR DOOR SCHEDULE, TYPES, FRAMES, & DETAILS.
3. FOR OVERALL BUILDING DIMENSIONS, SEE A100 OVERALL PLANS.
4. ALL DIMENSIONS ARE DRAWN TO FINISH FACE OF WALL.
5. DO NOT SCALE DRAWINGS. DIMENSIONS LOCATED ON PLANS, ELEVATIONS, AND DETAILS SHALL GOVERN OVER SMALL SCALE DETAILS. IF DIMENSIONS ARE IN QUESTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING CLARIFICATION FROM THE ARCHITECT BEFORE CONTINUING WITH CONSTRUCTION.
6. DIMENSIONS SHALL BE FIELD VERIFIED PRIOR TO FABRICATION AND INSTALLATION OF CASEWORK. REFER TO CASEWORK NOTES FOR ADDITIONAL INFORMATION.
7. FULLY RECESSED KNOX BOXES TO BE PROVIDED AND INSTALLED BY THE CONTRACTOR (KNOX BOX TYPE TO BE PER FIRE DEPARTMENT'S REQUIREMENTS). MOUNT AT 48" A.F.F.
8. ALL MASONRY WALLS TO BE TYPE "M0.8" UNO.
9. ALL STUD WALLS TO BE TYPE "_____" UNO.

1 A 101 LEVEL 1 - OVERALL FLOOR PLAN
SCALE: 1" = 20'-0"

PROGRESS DRAWING
NOT INTENDED FOR CONSTRUCTION

KEY PLAN

tda thendesign architecture

NORTH RIDGEVILLE HIGH SCHOOL
NORTH RIDGEVILLE CITY SCHOOL DISTRICT
34610 BAINBRIDGE RD. NORTH RIDGEVILLE, OH 44039

no.	description	date
Sheet Revisions		

no.	description	date
03	PC	05/16/25
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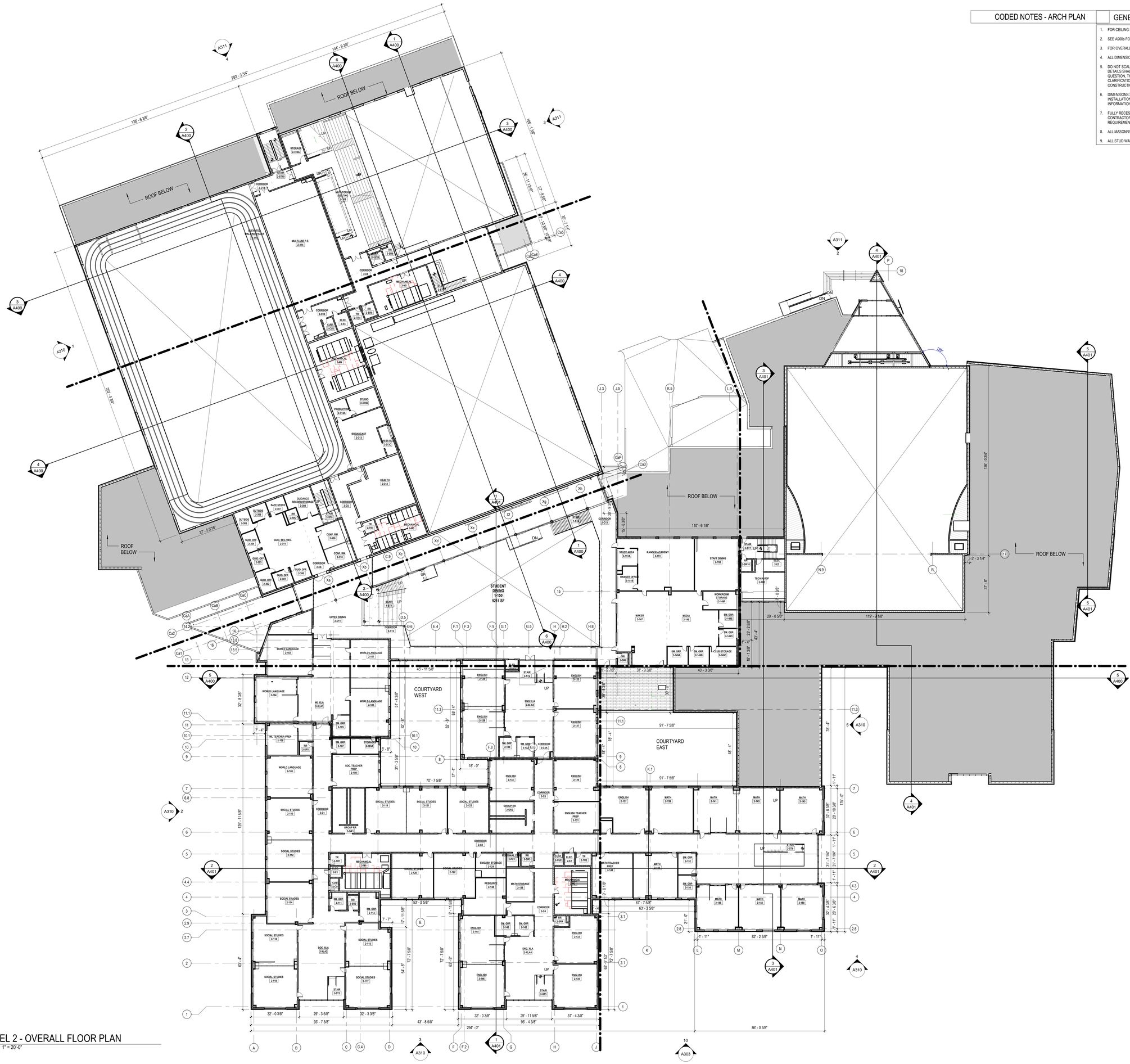
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OVERALL FLOOR PLAN - LEVEL 1

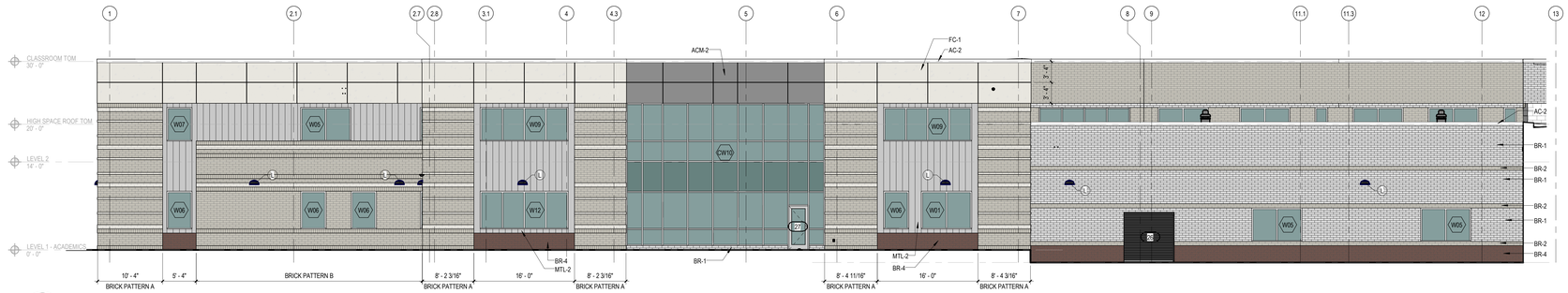
drawn by: TDA
checked by: TDA
sheet number: A 101
job number: 23099

CODED NOTES - ARCH PLAN

GENERAL NOTES - ARCHITECTURAL

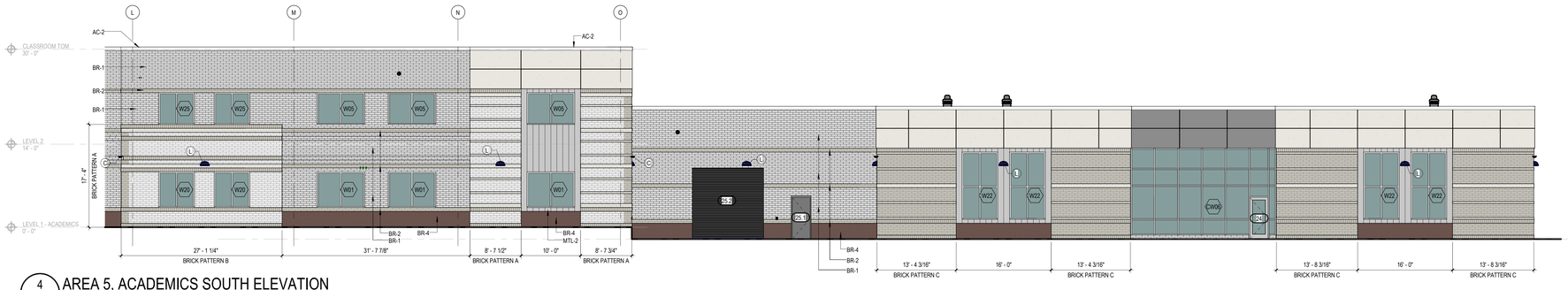
1. FOR CEILING PLANS, SEE A200s
2. SEE A900s FOR DOOR SCHEDULE, TYPES, FRAMES, & DETAILS.
3. FOR OVERALL BUILDING DIMENSIONS, SEE A100 OVERALL PLANS.
4. ALL DIMENSIONS ARE DRAWN TO FINISH FACE OF WALL.
5. DO NOT SCALE DRAWINGS. DIMENSIONS LOCATED ON PLANS, ELEVATIONS, AND DETAILS SHALL GOVERN OVER SMALL SCALE DETAILS. IF DIMENSIONS ARE IN QUESTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING CLARIFICATION FROM THE ARCHITECT BEFORE CONTINUING WITH CONSTRUCTION.
6. DIMENSIONS SHALL BE FIELD VERIFIED PRIOR TO FABRICATION AND INSTALLATION OF CASEWORK. REFER TO CASEWORK NOTES FOR ADDITIONAL INFORMATION.
7. FULLY RECESSED KNOX BOXES TO BE PROVIDED AND INSTALLED BY THE CONTRACTOR (KNOX BOX TYPE TO BE PER FIRE DEPARTMENT'S REQUIREMENTS). MOUNT AT 48" A.F.F.
8. ALL MASONRY WALLS TO BE TYPE "M0.8" UNO.
9. ALL STUD WALLS TO BE TYPE "_____" UNO.


ROOF BELOW
ROOF BELOW
ROOF BELOW
ROOF BELOW
ROOF BELOW
ROOF BELOW
ROOF BELOW
STUDENT DINING 1-150 9201 SF
COURTYARD WEST
COURTYARD EAST
MULTI-USE P.E. 2-214
UPPER DINING 2-211
STUDY AREA 2-101A
RANGER ACADEMY 2-105
STAFF DINING 2-153
MAKER 2-147
MEDIA 2-149
WORKROOM STORAGE 2-149F
TECH/STAFF 2-150
ENGLISH 2-128
ENGLISH 2-127
ENGLISH 2-134
ENGLISH 2-135
ENGLISH 2-137
MATH 2-139
MATH 2-141
MATH 2-143
MATH 2-145
MATH 2-156
MATH 2-158
MATH 2-160
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CORRIDOR 2-C8
CORRIDOR 2-C9
CORRIDOR 2-C10
CORRIDOR 2-C11
CORRIDOR 2-C12
CORRIDOR 2-C13
CORRIDOR 2-C14
CORRIDOR 2-C15
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CORRIDOR 2-C19
CORRIDOR 2-C20
CORRIDOR



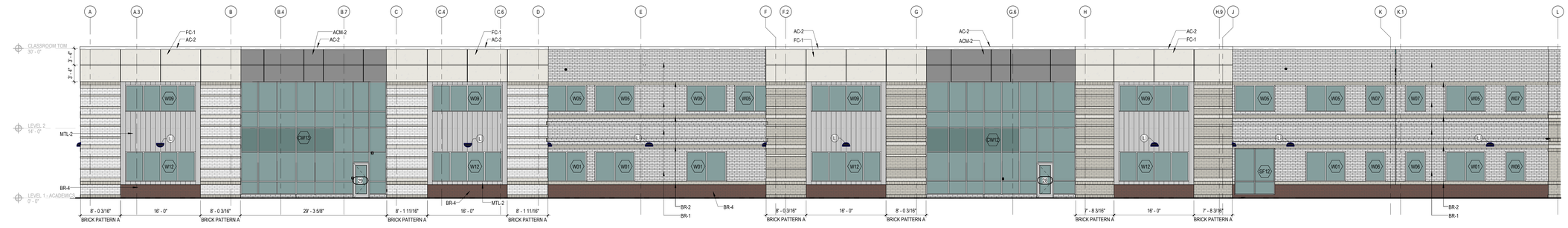
5 A310 AREA 4 & AREA 5, ACADEMICS EAST ELEVATION

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



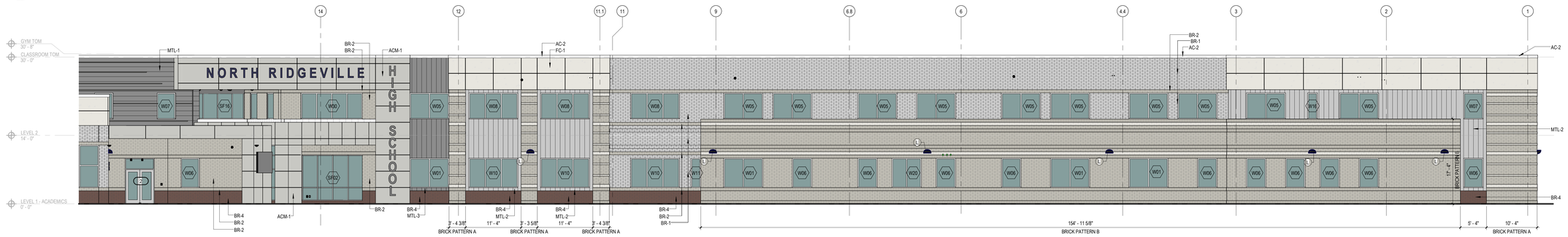
4 A310 AREA 5, ACADEMICS SOUTH ELEVATION

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



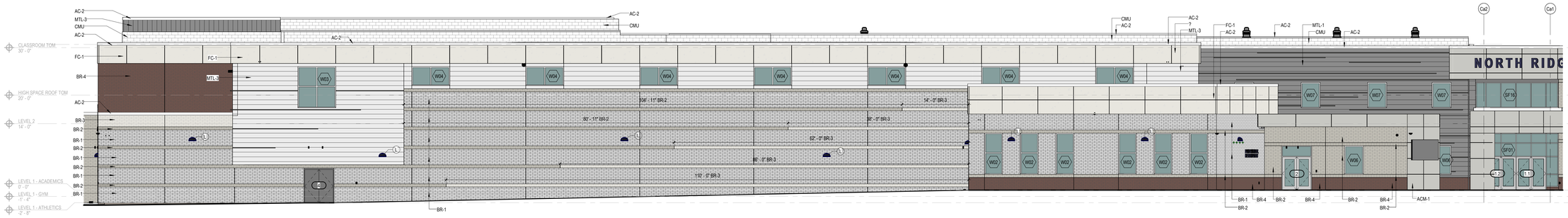
3 A310 AREA 4 & AREA 5, ACADEMICS SOUTH ELEVATION

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



2 A310 AREA 3 & 4, ACADEMICS WEST ELEVATION

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



1 A310 AREA 1 & 2, AUXILIARY GYM WEST ELEVATION

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

EXTERIOR FINISH LEGEND

SYMBOL	MATERIAL
MASONRY	
BR-1	CLAY FACE BRICK - GLEN GARY - OSLO
BR-2	CLAY FACE BRICK - GLEN GARY - COOL GRAY WIRECUT
BR-3	CLAY FACE BRICK - GLEN GARY - ASPEN WHITE WIRECUT
BR-4	CLAY FACE BRICK - GLEN GARY - PIQUA BLEND
CMU	CONCRETE MASONRY UNIT
SFCMU	SPLIT FACE CONCRETE MASONRY UNIT
METAL PANEL	
MTL-1	HORIZONTAL METAL PANEL WITH FINS - DARK BLUE
MTL-2	HORIZONTAL METAL PANEL WITH FINS - SLATE GRAY
MTL-3	HORIZONTAL METAL PANEL - DOVE GRAY
MTL-4	VERTICAL METAL PANEL - DARK BLUE
MTL-5	VERTICAL METAL PANEL - SLATE GRAY
MTL-6	VERTICAL METAL PANEL - DOVE GRAY
ACM-1	ALUMINUM COMPOSITE METAL PANEL DOVE GRAY
ACM-2	ALUMINUM COMPOSITE METAL PANEL DARK BLUE
AC-1	PREFINISHED ALUMINUM COPING SYSTEM - GRAY
AC-2	PREFINISHED ALUMINUM COPING SYSTEM - WHITE
WINDOWS / CURTAIN WALL / STOREFRONT	
AWU	ALUMINUM WINDOW UNIT
CW	CURTAIN WALL SYSTEM
SF	STOREFRONT SYSTEM
MISCELLANEOUS	
FC-1	FIBER CEMENT PANEL - LIGHT GRAY
FRP	FRP DOOR UNIT
GFRP	GLASS FIBER REINFORCED PANELS
LV	METAL LOUVER; SEE MECH. DWGS.
PCC	PRECAST COPING UNITS
SIGN 1	16" TALL CAST METAL DIMENSIONAL SIGNAGE - 1 1/4" DEPTH
SIGN 2	12" TALL CAST METAL DIMENSIONAL SIGNAGE - 1" DEPTH
SIGN 3	6" TALL CAST METAL DIMENSIONAL SIGNAGE - 3/4" DEPTH
SIGN 4	12" TALL VINYL SIGNAGE - APPLIED ON GLAZING
SCPR	OVERFLOW SCUPPER
GU-DS	GUTTER W/ DOWNSPOUT

SCUPPER: OVERFLOW SCUPPER W/ DOWNSPOUT

NOTES:
1. NOT ALL MATERIALS LISTED MAY BE USED.
2. TEMPERED GLASS LOCATED AT ALL EXTERIOR GLASS TYPES
3. SEE MECHANICAL DRAWINGS FOR DETAILED INFORMATION ON LOUVERS.

(C) CAMERA; SEE TECHNOLOGY DRAWINGS

(L) LIGHT FIXTURE; SEE ELECTRICAL DRAWINGS

(CR) CARD READER; SEE TECHNOLOGY DRAWINGS

(DO) DOOR OPENER BUTTON; SEE ELECTRICAL DRAWINGS

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NORTH RIDGEVILLE HIGH SCHOOL
NORTH RIDGEVILLE CITY SCHOOL DISTRICT
34610 BAINBRIDGE RD. NORTH RIDGEVILLE, OH 44039

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Sheet Revisions

03	PC	05/16/25
02	DD	12/20/24
01	SD	06/28/24

no.	description	date

Project Issues

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sheet name:
OVERALL ELEVATIONS

drawn by: TDA

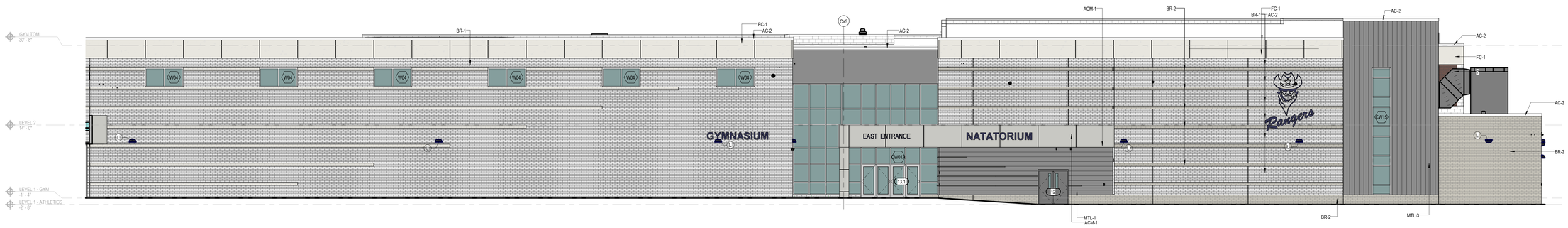
checked by: TDA

sheet number: A310

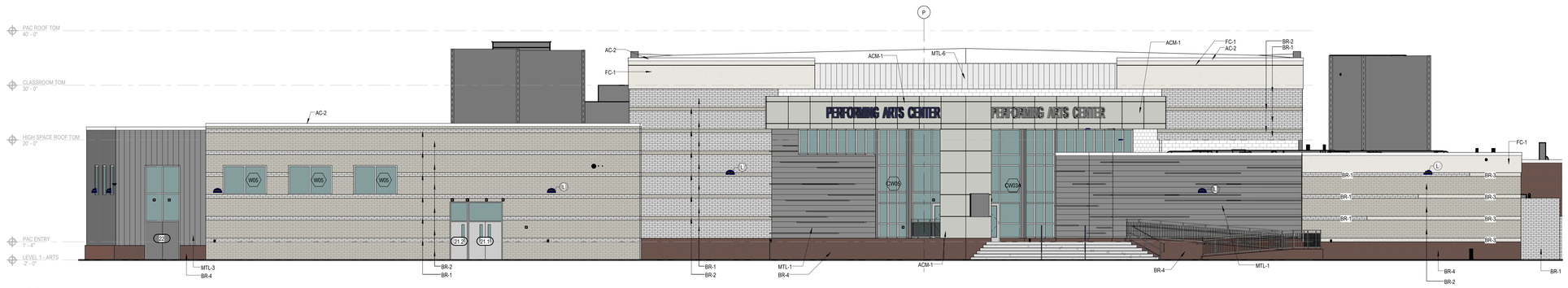
job number: 23099



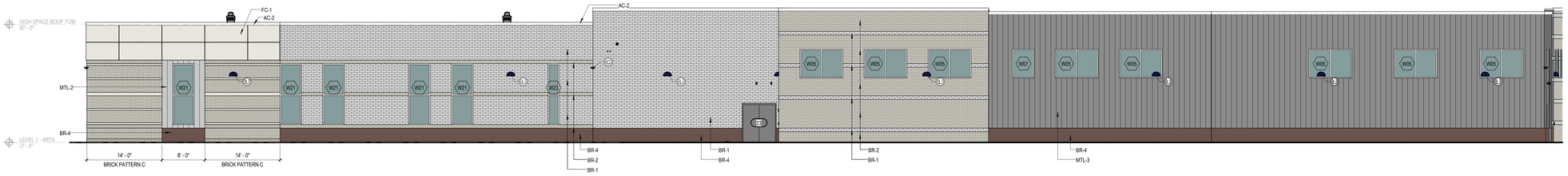
4 A311 AREA 1, ATHLETICS NORTH ELEVATION
SCALE: 1/8" = 1'-0"



3 A311 AREA 1 & 2, ATHLETICS EAST ELEVATION
SCALE: 1/8" = 1'-0"



2 A311 AREA 6, NORTH ELEVATION
SCALE: 1/8" = 1'-0"



1 A311 AREA 5 & AREA 6, EAST ELEVATION
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(DO) DOOR OPENER BUTTON; SEE ELECTRICAL DRAWINGS

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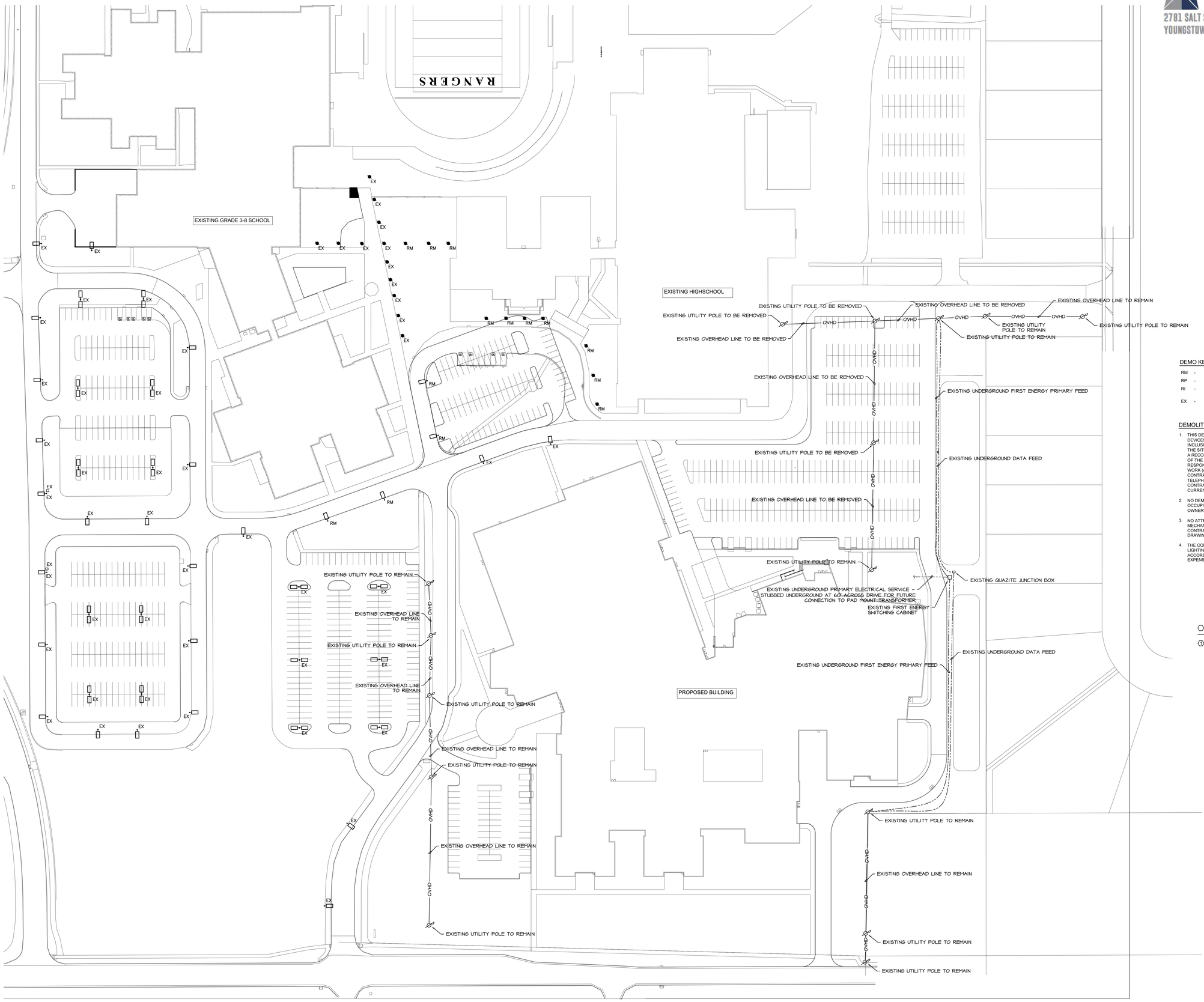
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no.	description	date
Project Issues		

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sheet name:
OVERALL ELEVATIONS

drawn by: TDA
checked by: TDA
sheet number: A311
job number: 23099

J.M.VEROSTKO,INC.
CONSULTING ENGINEERS
2781 SALT SPRINGS ROAD PHONE: (330) 799-1339
YOUNGSTOWN, OHIO 44509 URL: JMVEROSTKO.COM



ELECTRICAL SITE PLAN
SCALE: 1" = 50'-0"

DEMO KEY

RM	-	REMOVE DEVICE OR FIXTURE. PATCH TO MATCH AS REQUIRED.
RP	-	REPLACE DEVICE OR FIXTURE.
RI	-	REMOVE DEVICE OR FIXTURE AND REINSTALL. EXTEND/ REPLACE/REROUTE WIRING AS NECESSARY.
EX	-	EXISTING DEVICE OR FIXTURE TO REMAIN. REWIRE AS SHOWN OR REQUIRED. RELAMP EXISTING FIXTURES. PROVIDE NEW BALLASTS AS REQUIRED.

DEMOLITION NOTES:

1. THIS DEMOLITION PLAN IS FOR GENERAL INFORMATION OF EXISTING DEVICES AND EQUIPMENT AND IS NOT INTENDED TO BE TOTALLY INCLUSIVE OF ALL DEMOLITION REQUIRED. CONTRACTOR SHALL VISIT THE SITE AND VERIFY ALL DEMOLITION REQUIRED. THIS PLAN IS NOT A RECORD DRAWING AND SHALL BE CONSIDERED A GENERAL SCOPE OF THE DEMOLITION REQUIRED. THE CONTRACTOR WILL BE RESPONSIBLE TO DEMOLISH ALL ITEMS NECESSARY FOR THE NEW WORK (ALL TRADES) TO BE PERFORMED PROPERLY, AND THE CONTRACTOR WILL BE RESPONSIBLE TO RELOCATE ALL ELECTRICAL, TELEPHONE, CATV, ETC. WIRING THAT IS TO REMAIN ACTIVE. THE CONTRACTOR SHALL VISIT THE SITE AND THOROUGHLY INSPECT THE CURRENT FIELD CONDITIONS AT THE PROJECT SITE.
2. NO DEMOLITION THAT WILL AFFECT THE OWNER'S USE OF NEARBY OCCUPIED SPACES WILL BE PERMITTED WITHOUT FIRST SECURING THE OWNER'S AUTHORIZATION.
3. NO ATTEMPT HAS BEEN MADE TO SHOW THE EXTENT OF ARCHITECTURAL/ MECHANICAL/GENERAL DEMOLITION WORK ON THE ELECTRICAL DRAWINGS. CONTRACTOR SHALL REFER TO THE ARCHITECTURAL AND MECHANICAL DRAWINGS FOR SUCH DETAILS.
4. THE CONTRACTOR IS RESPONSIBLE TO DISPOSE OF THE EXISTING LIGHTING FIXTURES, BALLAST AND LAMPS IN A LEGAL MANNER IN STRICT ACCORDANCE WITH THE EPA DIRECTIVE. THE CONTRACTOR SHALL PAY ALL EXPENSES ASSOCIATED WITH THE DISPOSAL.

NOTES
1.

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Sheet Revisions

	PC	05/16/25
03	Early Site	01/31/25
02	DD	12/20/24
01	SD	06/28/24

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Project Issues

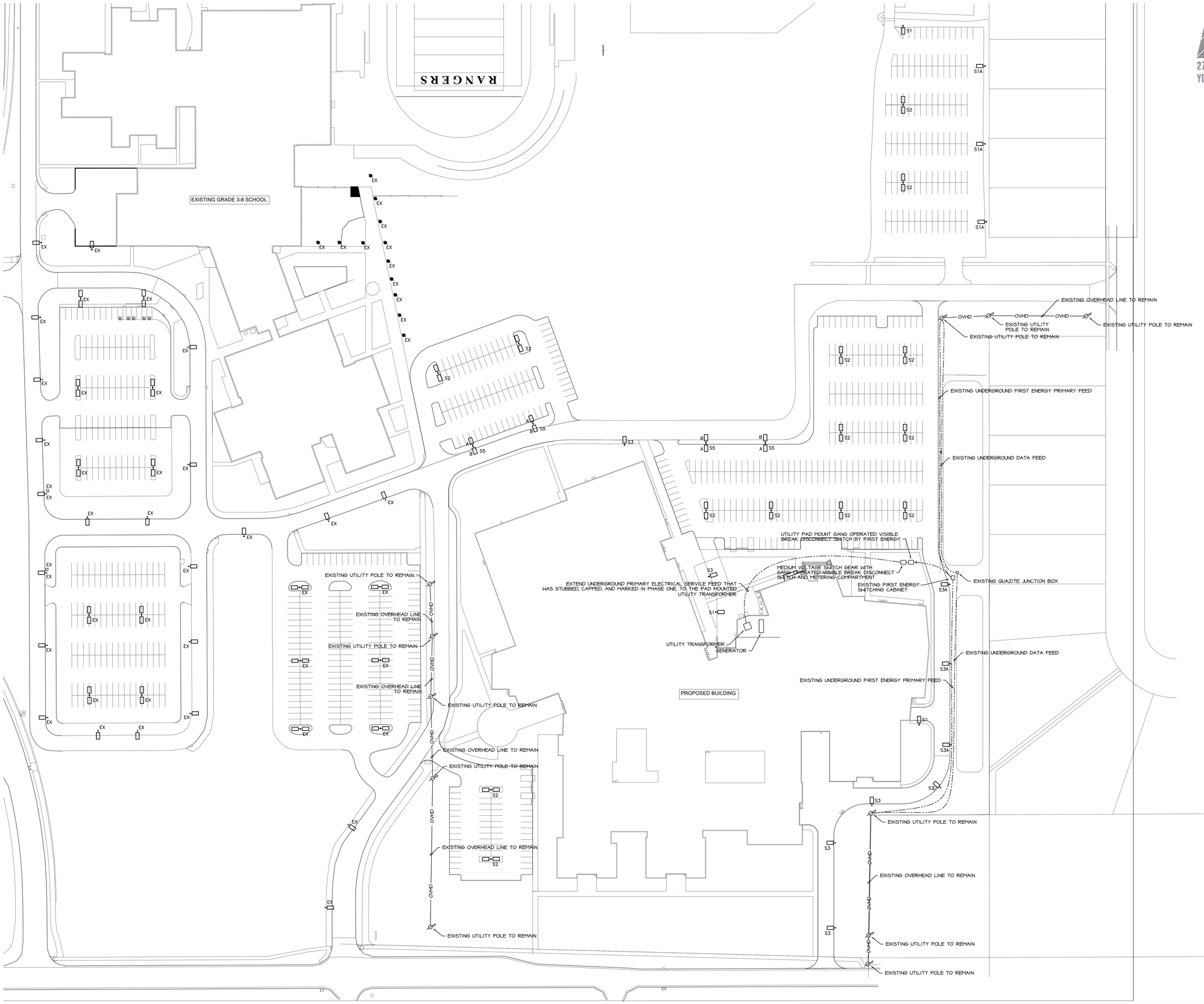
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sheet name:
ELECTRICAL DEMOLITION SITE PLAN - PHASE 2

drawn by: WAM
checked by: TJC
sheet number: ES102
job number: 23099

J.M.VEROSTKO,INC.
CONSULTING ENGINEERS
2781 SALT SPRINGS ROAD PHONE: (330) 799-1339
YOUNGSTOWN, OHIO 44509 URL: JMVEROSTKO.COM

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NORTH

ELECTRICAL SITE PLAN

SCALE: 1" = 50'-0"

SITE NOTES:

1. ALL CONDUITS SHALL BE 1 1/4" PVC 40 MINIMUM WITH A MINIMUM BURIAL DEPTH OF 36" BELOW SUBGRADE AND SHALL HAVE A 6" PREMIUM SAND FILL ENVELOPE. WIRE SIZE SHALL BE #6 AWG MINIMUM UNLESS NOTED OTHERWISE.
2. PROVIDE PULL STRINGS IN ALL EMPTY CONDUITS.
3. CAUTION CURB DRAIN LOCATED IMMEDIATELY ADJACENT TO CURB. CONTRACTOR SHALL LOCATE CURB DRAIN AND ADJUST OFFSET TO LIGHT POLE FOUNDATION AS REQUIRED TO CLEAR CURB DRAIN PIPE.
4. ALL INCOMING ELECTRICAL PRIMARY SERVICE CONDUITS AND ALL UNDERGROUND INCOMING COMMUNICATION CONDUITS SHALL BE ENCASED IN A 6" CONCRETE ENVELOPE AT ALL LOCATIONS PASSING UNDER PARKING AREAS, ROADWAYS, AND DRIVEWAYS.

NOTES

1. ROUTE ALL CIRCUITS THROUGH RESPECTIVE LIGHTING CONTROL RELAY PANEL AS REQUIRED.
2. FURNISH AND INSTALL A FLUSH WITH GRADE QUAZITE JUNCTION BOX AT THIS LOCATION. CUT INTO EXISTING UNDERGROUND CONDUIT/CIRCUITING AND REWORK AS REQUIRED TO CONTINUE EXISTING CIRCUITING. CONNECT NEW UNDERGROUND CONDUIT/WIRING FOR NEW LIGHT POLES TO EXISTING CIRCUITING AS SHOWN. MAKE ALL CONNECTIONS AS REQUIRED.

LIGHTING FIXTURE SCHEDULE

MARK	DESCRIPTION	MANUFACTURERS AND CATALOG #'S	LAMPS	VOLTS	MOUNTING	REMARKS
S1	LED SINGLE HEAD FIXTURE ON 30' POLE	BEACON #VP-2-320L-185-4K7-4F-UNV-A-BLT	LED	277	POLE BASE	POLE BEACON #SSA-B-30-60-C-1-B3-BLT-VM1 VERIFY COLOR SELECTION WITH ARCHITECT. SEE LIGHTING FIXTURE NOTE #3.
S1A	LED SINGLE HEAD FIXTURE ON 30' POLE WITH SHIELD	BEACON #VP-2-320L-185-4K7-4F-UNV-A-BLT BEACON #SHD-2-HSS-90-B-BLT	LED	277	POLE BASE	POLE BEACON #SSA-B-30-60-C-1-B3-BLT-VM1 VERIFY COLOR SELECTION WITH ARCHITECT. SEE LIGHTING FIXTURE NOTE #3.
S2	LED (2) HEAD FIXTURE @ 180 DEG. ON 30' POLE	BEACON #VP-2-320L-185-4K7-5QW-UNV-A-BLT	LED	277	POLE BASE	POLE BEACON #SSA-B-30-60-C-2-B3-BLT-VM1 VERIFY COLOR SELECTION WITH ARCHITECT. SEE LIGHTING FIXTURE NOTE #3.
S3	LED SINGLE HEAD FIXTURE ON 30' POLE	BEACON #VP-2-320L-185-4K7-3-UNV-A-BLT	LED	277	POLE BASE	POLE BEACON #SSA-B-30-60-C-1-B3-BLT-VM1 VERIFY COLOR SELECTION WITH ARCHITECT. SEE LIGHTING FIXTURE NOTE #3.
S3A	LED SINGLE HEAD FIXTURE ON 30' POLE WITH SHIELD	BEACON #VP-2-320L-185-4K7-3-UNV-A-BLT BEACON #SHD-2-HSS-90-B-BLT	LED	277	POLE BASE	POLE BEACON #SSA-B-30-60-C-1-B3-BLT-VM1 VERIFY COLOR SELECTION WITH ARCHITECT. SEE LIGHTING FIXTURE NOTE #3.
S5	LED (2) HEAD FIXTURE @ 180 DEG. ON 30' POLE	(A) BEACON #VP-2-320L-185-4K7-5QW-UNV-A-BLT (B) BEACON #VP-2-320L-185-4K7-3-UNV-A-BLT	LED	277	POLE BASE	POLE BEACON #SSA-B-30-60-C-2-B3-BLT-VM1 VERIFY COLOR SELECTION WITH ARCHITECT. SEE LIGHTING FIXTURE NOTE #3.

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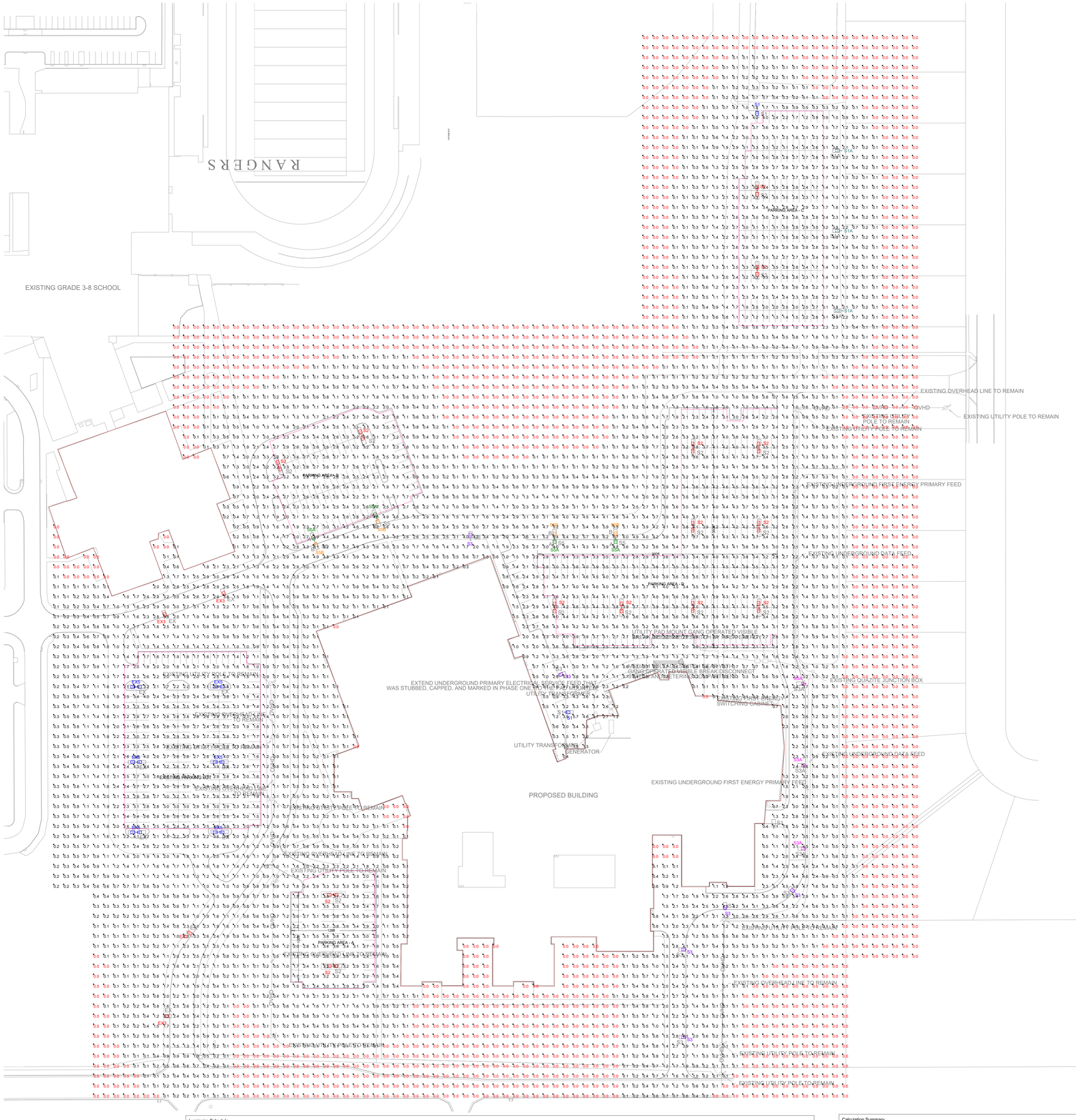
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sheet name:
ELECTRICAL SITE PLAN - PHASE 2

drawn by: WAM
checked by: TJC
sheet number: ES202
job number: 23099



Luminaire Schedule

Symbol	Qty	Label	LLF	Luminaire Lumens	[MANUFAC]	Description	Filename	Luminaire Watts	Mounting Height
	4	EX3	0.900	24664	BEACON PRODUCTS	VP-L-96NB-280-T3-4K	96NB-280-T3.ies	280	32.5
	6	EX5	0.900	23785	BEACON PRODUCTS	VP-L-96NB-280-TSSW-4K	96NB-280-TSSW.ies	280	32.5
	2	S1	0.900	25206	BEACON	VP-2-320L-185-4K7-4F	VP-2-320L-185-4K7-4F.ies	185	32.5
	3	S1A	0.900	21608	BEACON	VP-2-320L-185-4K7-4F-HSS-90-B	VP-2-320L-185-4K7-4F-HSS-90-B.ies	185	32.5
	14	S2	0.900	26841	BEACON	2/VP-2-320L-185-4K7-5QW	VP-2-320L-185-4K7-5QW.ies	185	32.5
	6	S3	0.900	25894	BEACON	VP-2-320L-185-4K7-3	VP-2-320L-185-4K7-3.ies	185	32.5
	3	S3A	0.900	21185	BEACON	VP-2-320L-185-4K7-3-HSS-90-B	VP-2-320L-185-4K7-3-HSS-90-B.ies	185	32.5
	4	S5A	0.900	26841	BEACON	VP-2-320L-185-4K7-5QW	VP-2-320L-185-4K7-5QW.ies	185	32.5
	4	S5B	0.900	25894	BEACON	VP-2-320L-185-4K7-3	VP-2-320L-185-4K7-3.ies	185	32.5

Calculation Summary

Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
existing parking lot	Illuminance	Fc	2.52	4.3	1.0	2.52	4.30
parking area - A	Illuminance	Fc	2.78	3.8	1.4	1.99	2.71
parking area - B	Illuminance	Fc	2.57	4.6	0.9	2.86	5.11
parking area - C	Illuminance	Fc	2.58	3.7	0.6	4.30	6.17
parking area - D	Illuminance	Fc	3.63	4.7	2.0	1.82	2.35

NOTES:
1. ILLUMINANCE LEVELS TAKEN ON THE PAVEMENT

PHOTOMETRIC STUDY
Scale: 1' = 60' - 0"
Submitted for Planning Commission - 05/16/25

AG132
SAMPLE BANNER
Excellence in Illumination Engineering Software Since 1984
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Revisions

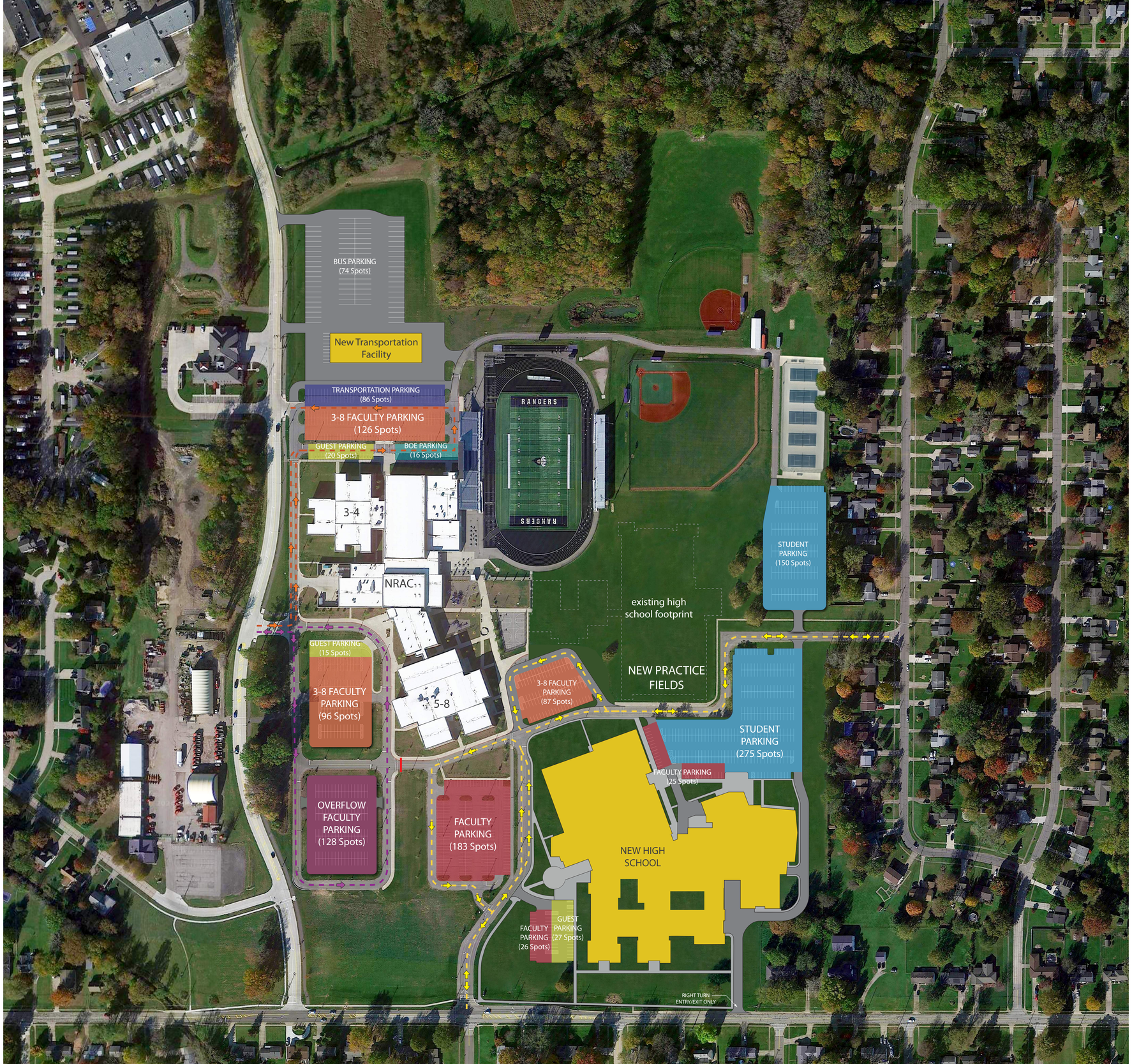
#	Date	Comments

Drawn By:
Checked By:
Date:5/14/2025
Scale:

NRHS

Site Lighting Photometric Study

05-14-2025



5-8+HS DROP OFF

3-4 DROP OFF

BUS DROP OFF

TRAFFIC CONES

PARKING TOTALS:

HS STUDENT -	425
HS FACULTY -	234
HS VISITORS -	27
3-8 FACULTY -	307
BOE FACULTY -	16
3-8 VISITORS -	35
TRANSPORTATION -	86
MAINTAINANCE -	8
OVERFLOW -	128

TOTAL SPOTS NEEDED FOR STADIUM CAPACITY:	**1131**
ACTUAL PARKING TOTAL:	**1266**
DIFFERENCE:	**135**

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DATE: LOCATION:

TYPE: PROJECT:

CATALOG #:

VIPER Area/Site

VIPER LUMINAIRE

TYPE "S1B"

MICRO STRIKE | OPTICS STRIKE

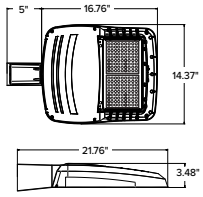


FEATURES

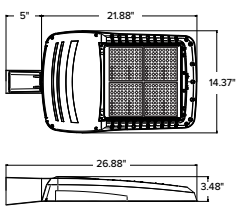
- Low profile LED area/site luminaire with a variety of IES distributions for lighting applications such as auto dealership, retail, commercial, and campus parking lots
- Featuring two different optical technologies, Strike and Micro Strike Optics, which provide the best distribution patterns for retrofit or new construction
- Rated for high vibration applications including bridges and overpasses. All sizes are rated for 1.5G
- Control options including photo control, occupancy sensing, NX Lighting Controls™, LightGRID+ and 7-Pin with networked controls
- New customizable lumen output feature allows for the wattage and lumen output to be customized in the factory to meet whatever specification requirements may entail
- Field interchangeable mounting provides additional flexibility after the fixture has shipped

c UL us IP65 DLC LISTED DLC LISTED PREMIUM DARKSKY APPROVED Reduces light pollution BAA TAA

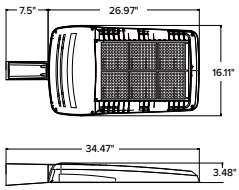
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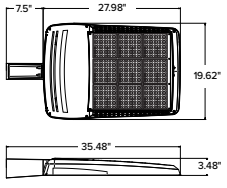
SIZE 2



SIZE 3



SIZE 4



CONTROL TECHNOLOGY

NX CONNECT NX WIRED NX WIRELESS LIGHTGRID+

SERVICE PROGRAMS

STOCK QS10

SPECIFICATIONS

CONSTRUCTION

- Die-cast housing with hidden vertical heat fins are optimal for heat dissipation while keeping a clean smooth outer surface
- Corrosion resistant, die-cast aluminum housing with 1000 hour powder coat paint finish
- External hardware is corrosion resistant

OPTICS

- Micro Strike Optics (160, 320, 480, or 720 LED counts) maximize uniformity in applications and come standard with mid-power LEDs which evenly illuminate the entire luminous surface area to provide a low glare appearance. Catalog logic found on page 2
- Strike Optics (36, 72, 108, or 162 LED counts) provide best in class distributions and maximum pole spacing in new applications with high powered LEDs. Strike optics are held in place with a polycarbonate bezel to mimic the appearance of the Micro Strike Optics so both solutions can be combined on the same application. Catalog logic found on page 3
- Both optics maximize target zone illumination with minimal losses at the house-side, reducing light trespass issues. Additional backlight control shields and house side shields can be added for further reduction of illumination behind the pole
- One-piece silicone gasket ensures a weatherproof seal
- Zero up-light at 0 degrees of tilt
- Field rotatable optics

INSTALLATION

- Mounting patterns for each arm can be found on page 11
- Optional universal mounting block for ease of installation during retrofit applications. Available as an option (ASQU) or accessory for square and round poles
- All mounting hardware included
- Knuckle arm fitter option available for 2-3/8" OD tenon
- For products with EPA less than 1 mounted to a pole greater that 20ft, a vibration damper is recommended

ELECTRICAL

- Universal 120-277 VAC or 347-480 VAC input voltage, 50/60 Hz
- 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 20kA 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 compromised
- Dual Driver option provides 2 drivers within luminaire but only one set of leads exiting the luminaire, where Dual Power Feed provides two drivers which can be wired independently as two sets of leads are extended from the luminaire. Both options cannot be combined

CONTROLS

- Photo control, occupancy sensor programmable controls, and Zigbee wireless controls available for complete on/off and dimming control
- Please consult brand or sales representative when combining control and electrical options as some combinations may not operate as anticipated depending on your application
- 7-pin ANSI C136.41-2013 photocontrol receptacle option available for twist lock photocontrols or wireless control modules (control accessories sold separately)
- 0-10V Dimming Drivers are standard.
- NX Lighting Controls™ available with in fixture wireless control module, features dimming and occupancy sensor
- LightGRID+ available with in fixture wireless control module, features dimming and occupancy sensor. Also available in 7-pin configuration

	EPA				
	VP1 (Size 1)	VP2 (Size 2)	VP3 (Size 3)	VP4 (Size 4)	Config.
Single Fixture	0.454	0.555	0.655	0.698	
Two at 180	0.908	1.110	1.310	1.396	
Two at 90	0.583	0.711	0.857	0.948	
Three at 90	1.037	1.266	1.512	1.646	
Three at 120	0.943	1.155	1.392	1.680	
Four at 90	1.166	1.422	1.714	1.896	

CERTIFICATIONS

- DLC® (DesignLights Consortium Qualified), with some Premium Qualified configurations. Not all product variations listed in this document are DLC® qualified. Refer to http://www.designlights.org for the most up-to-date list.
- Listed to UL1598 and CSA C22.2#250.0-24 for wet locations and 40˚C ambient temperatures
- 1.5 G rated for ANSI C136.31 high vibration applications
- Fixture is IP65 rated
- Meets IDA recommendations using 3K CCT configuration at 0 degrees of tilt
- This product meets federal procurement law requirements under the Buy American Act (FAR 52.225-9) and Trade Agreements Act (FAR 52.225-11). See Buy America(n) Solutions (link to https://www.currentlighting.com/resources/america-solutions).
- FCC CFR Title 47 Part 15, Class A

WARRANTY

- 5 year warranty

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DATE: | LOCATION:

TYPE: | PROJECT:

CATALOG #:

VIPER Area/Site

VIPER LUMINAIRE

MICROSTRIKE OPTICS – ORDERING GUIDE

Gray Shading = Service Program Limit of 15 luminaires

QS10

Example: VP–2–320L-145–3K7–2–R–UNV–A3–BLT

CATALOG #

VP	–		–	2	–	320L-185	–	4K7	–	4F	–		–	UNV	–
Series		**Optic Platform**		**Size**		**Light Engine**		**CCT/CRI**		**Distribution**		**Optic Rotation**		**Voltage**	

Series	
VP	Viper Area

Optic Platform	
BLANK	Micro Strike

Size	
1	Size 1
2	Size 2
3	Size 3
4	Size 4

Light Engine	
160L-35 [6]	35W - 5,500 Lumens
160L-50 [6]	50W - 7,500 Lumens
160L-75	75W - 10,000 Lumens
160L-100	100W - 12,500 Lumens
160L-115	115W - 15,000 Lumens
160L-135	135W - 18,000 Lumens
160L-160	160W - 21,000 Lumens
320L-145	145W - 21,000 Lumens
320L-170	170W - 24,000 Lumens
320L-185	185W - 27,000 Lumens
320L-210	210W - 30,000 Lumens
320L-235	235W - 33,000 Lumens
320L-255	255W - 36,000 Lumens
320L-315 [6]	315W - 40,000 Lumens
480L-285	285W - 40,000 Lumens
480L-320	320W - 44,000 Lumens
480L-340	340W - 48,000 Lumens
480L-390	390W - 52,000 Lumens
480L-425	425W - 55,000 Lumens
480L-470	470W - 60,000 Lumens
720L-435	435W - 60,000 Lumens
720L-475	475W - 65,000 Lumens
720L-515	515W - 70,000 Lumens
720L-565 [6]	565W - 75,000 Lumens
720L-600 [6]	600W - 80,000 Lumens
CLO	Custom Lumen Output [1]

CCT/CRI	
AP	AP-Amber Phosphor Converted
27K8	2700K, 80 CRI
3K7	3000K, 70 CRI
3K8	3000K, 80 CRI
35K8	3500K, 80 CRI
3K9	3000K, 90 CRI
4K7	4000K, 70 CRI
4K8	4000K, 80 CRI
4K9	4000K, 90 CRI
5K7	5000K, 70 CRI
5K8	5000K, 80 CRI
BLUE	BLUE 450-455 nm

Distribution	
2	Type 2
3	Type 3
4F	Type 4 Forward
4W	Type 4 Wide
5QW	Type 5 Square Wide

Optic Rotation	
BLANK	No Rotation
L	Optic rotation left
R	Optic rotation right

Voltage	
UNV	120-277V
120	120V
208	208V
240	240V
277	277V
347	347V
480	480V

A	–	BLT	–		–
Mounting		**Color**		**Options**	

Mounting	
A	Arm mount for square pole (B3 Drill Pattern) (Does not include round pole adapter)
A_	Arm mount for round pole [2]
ASQU	Universal arm mount for square pole. Can be used with B3 or S2 Drill Pattern
A_U	Universal arm mount for round pole [2]
AAU	Adjustable arm for pole mounting (universal drill pattern)
AA_U	Adjustable arm mount for round pole [2]
ADU	Decorative upswept Arm (universal drill pattern)
AD_U	Decorative upswept arm mount for round pole [2]
MAF	Mast arm fitter for 2-3/8" OD horizontal arm
K	Knuckle
T	Trunnion
WB	Wall Bracket, horizontal tenon with MAF
WM	Wall mount bracket with decorative upswept arm
WA	Wall mount bracket with adjustable arm

Color	
BLT	Black Matte Textured
BLS	Black Gloss Smooth
DBT	Dark Bronze Matte Textured
DBS	Dark Bronze Gloss Smooth
GTT	Graphite Matte Textured
LGS	Light Grey Gloss Smooth
LGT	Light Grey Gloss Textured
PSS	Platinum Silver Smooth
WHT	White Matte Textured
WHS	White Gloss Smooth
VGT	Verde Green Textured

Color Option

CC	Custom Color

Options	
F	Fusing
2PF	Dual Power Feed
2DR	Dual Driver
TE	Tooless Entry
BC	Backlight Control [8]
TB	Terminal Block
LS	Lumen Switch

Network Control Options

NXWS-16F	NX Networked Wireless Enabled Integral NXSMP2-LMO PIR Occupancy Sensor with Automatic Dimming Photocell and Bluetooth Programming [1,3,4]
NXWS-40F	NX Networked Wireless Enabled Integral NXSMP2-HMO PIR Occupancy Sensor with Automatic Dimming Photocell and Bluetooth Programming [1,3,4]
NXW	NX Networked Wireless Radio Module NXRM2 and Bluetooth Programming, without Sensor [3,4]
WIR	LightGRID+ In-Fixture Module [3,4]
WIRSC-14F	LightGRID+ Module and Occupancy Sensor 14ft Mounting height [3,4]
WIRSC-40F	LightGRID+ Module and Occupancy Sensor 40ft Mounting height [3,4]

Stand Alone Sensors

BTS-14F	Bluetooth® Programmable, BTSMP-LMO PIR Occupancy Sensor with Automatic Dimming Photocell and 360° Lens
BTS-40F	Bluetooth® Programmable, BTSMP-HMO PIR Occupancy Sensor with Automatic Dimming Photocell and 360° Lens
BTSO-12F	Bluetooth® Programmable, BTSMP-OMNI-O PIR Occupancy Sensor with Automatic Dimming Photocell and 360° Lens
7PR	7-Pin Receptacle [4]
7PR-SC	7-Pin Receptacle with shorting cap [4]
7PR-TL	7-Pin PCR with NEMA photocontrol [4]
3PR	3-Pin Receptacle [4]
3PR-SC	3-Pin receptacle with shorting cap [4]
3PR-TL	3-Pin PCR with NEMA photocontrol [4]

Programmed Controls

SCP-_F	Sensor Control Programmable, 8F or 40F [9]
ADD	AutoDim Timer Based Dimming [10]
ADT	AutoDim Time of Day Dimming [10]

1 – Items with a grey background can be done as a custom order. Contact brand representative for more information
2 – Replace "_" with "3" for 3.5"-4.13" OD pole, "4" for 4.18"-5.25" OD pole, "5" for 5.5"-6.5" OD pole
3 – Networked Controls cannot be combined with other control options
4 – Not available with 2PF option
5 – Not available with Dual Driver option
6 – Some voltage restrictions may apply when combined with controls
7 – Not available with 480V
8 – BC not available on 4F and type 5 distributions
9 – At least one SCPREMOTE required to program SCP motion sensor. Must select 8ft or 40ft.
10 - Please refer to page 8 for AutoDim ordering guide

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DATE: LOCATION:

TYPE: PROJECT:

CATALOG #:

VIPER Area/Site

VIPER LUMINAIRE

STRIKE OPTIC – ORDERING GUIDE

Example: VP–ST–1–36L-39–3K7–2–UNV–A–BLT

CATALOG #

VP –

Series		Optic Platform		Size		Light Engine		CCT/CRI		Distribution		Optic Rotation		Voltage	
VP	Viper Area	ST	Strike Optics	1	Size 1	36L-39 [8]	39W - 5,500 Lumens	27K8	2700K, 80 CRI	FR	Auto Front Row	BLANK	No Rotation	UNV	120-277V
						36L-55 [8]	55W - 7,500 Lumens	3K7	3000K, 70 CRI	2	Type 2	L	Optic rotation left	120	120V
						36L-85	85W - 10,000 Lumens	3K8	3000K, 80 CRI	3	Type 3	R	Optic rotation right	208	208V
						36L-105	105W - 12,500 Lumens	3K9	3000K, 90 CRI	4F	Type 4 Forward			240	240V
						36L-120	120W - 15,000 Lumens	35K8	3500K, 80 CRI	4W	Type 4 Wide			277	277V
				2	Size 2	72L-115	115W - 15,000 Lumens	4K7	4000K, 70 CRI	5QN	Type 5 Square Narrow			347	347V
						72L-145	145W - 18,000 Lumens	4K8	4000K, 80 CRI	5QW	Type 5 Square Wide			480	480V
						72L-180	180W - 21,000 Lumens	4K9	4000K, 90 CRI	5QM	Type 5 Square Medium				
						72L-210	210W - 24,000 Lumens	5K7	5000K, 70 CRI	5W	Type 5 Wide (Round)				
						72L-240	240W - 27,000 Lumens	5K8	5000K, 80 CRI	5RW	Type 5 Rectangular				
				3	Size 3	108L-215 [8]	215W - 27,000 Lumens			C	Corner Optic				
						108L-250	250W - 30,000 Lumens			TC	Tennis Court Optic				
						108L-280	280W - 33,000 Lumens								
						108L-325	325W - 36,000 Lumens								
						108L-365	365W - 40,000 Lumens								
				4	Size 4	162L-320	320W - 40,000 Lumens								
						162L-365 [10]	365W - 44,000 Lumens								
						162L-405	405W - 48,000 Lumens								
						162L-445	445W - 52,000 Lumens								
						162L-485	485W - 55,000 Lumens								
						162L-545 [8]	545W - 60,000 Lumens								
						CLO	Custom Lumen Output [1]								

Mounting		Color		Options		Network Control Options	
A	Arm mount for square pole (B3 Drill Pattern) (Does not include round pole adapter)	BLT	Black Matte Textured	F	Fusing	NXWS-16F	NX Networked Wireless Enabled Integral NXSMP2-LMO PIR Occupancy Sensor with Automatic Dimming Photocell and Bluetooth Programming [1,4,5]
A_	Arm mount for round pole [3]	BLS	Black Gloss Smooth	E	Battery Backup [1,2,7,8,9]	NXWF-40F	NX Networked Wireless Enabled Integral NXSMP2-HMO PIR Occupancy Sensor with Automatic Dimming Photocell and Bluetooth Programming [1,4,5]
ASQU	Universal arm mount for square pole	DBT	Dark Bronze Matte Textured	2PF	Dual Power Feed	NXW	NX Networked Wireless Radio Module NXRM2 and Bluetooth Programming, without Sensor [4,5]
A_U	Universal arm mount for round pole [3]	DBS	Dark Bronze Gloss Smooth	2DR	Dual Driver	WIR	LightGRID+ In-Fixture Module [4,5]
AAU	Adjustable arm for pole mounting (universal drill pattern)	GTT	Graphite Matte Textured	TE	Tooless Entry	WIRSC-14F	LightGRID+ Module and Occupancy Sensor 14ft Mounting height [4,5]
AA_U	Adjustable arm mount for round pole [3]	LGS	Light Grey Gloss Smooth	BC	Backlight Control	WIRSC-40F	LightGRID+ Module and Occupancy Sensor 40ft Mounting height [4,5]
ADU	Decorative upswept Arm (universal drill pattern)	LGT	Light Grey Gloss Textured	TB	Terminal Block	**Stand Alone Sensors**	
AD_U	Decorative upswept arm mount for round pole [3]	PSS	Platinum Silver Smooth	LS	Lumen Switch	BTS-14F	Bluetooth® Programmable, BTSMP-LMO PIR Occupancy Sensor with Automatic Dimming Photocell and 360° Lens
MAF	Mast arm fitter for 2-3/8" OD horizontal arm	WHT	White Matte Textured			BTS-40F	Bluetooth® Programmable, BTSMP-HMO PIR Occupancy Sensor with Automatic Dimming® Photocell and 360° Lens
K	Knuckle	WHS	White Gloss Smooth			BTSO-12F	Bluetooth® Programmable, BTSMP-OMNI-O PIR Occupancy Sensor with Automatic Dimming Photocell and 360° Lens
T	Trunnion	VGT	Verde Green Textured			7PR	7-Pin Receptacle [4]
WB	Wall Bracket, horizontal tenon with MAF	**Color Option**				7PR-SC	7-Pin Receptacle with shorting cap [4]
		CC	Custom Color			7PR-TL	7-Pin PCR with NEMA photocontrol [4]
						3PR	3-Pin Receptacle [4]
						3PR-SC	3-Pin receptacle with shorting cap [4]
						3PR-TL	3-Pin PCR with NEMA photocontrol [4]
						Programmed Controls	
						SCP-_F	Sensor Control Programmable, 8F or 40F [11]
						ADD	AutoDim Timer Based Dimming [12]
						ADT	AutoDim Time of Day Dimming [12]

1 – Items with a grey background can be done as a custom order. Contact brand representative for more information
2 – Battery temperature rating -20C to 55C
3 – Replace "_" with "3" for 3.5"-4.13" OD pole, "4" for 4.18"-5.25" OD pole, "5" for 5.5"-6.5" OD pole
4 – Networked Controls cannot be combined with other control options
5 – Not available with 2PF option
6 – Not available with 480V
7 – Not available with 347 or 480V
8 – Not available with Dual Driver option
9 – Only available in Size 1 housing, up to 105 Watts
10 – Some voltage restrictions may apply when combined with controls
11 – At least one SCPREMOTE required to program SCP motion sensor. Must select 8ft or 40ft.
12 - Please refer to page 8 for AutoDim ordering guide

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DATE: LOCATION:

TYPE: PROJECT:

CATALOG #:

VIPER Area/Site

VIPER LUMINAIRE

ORDERING GUIDE (CONT'D)

CATALOG #

Accessory Type		Size		Option		Color	
SHD	Shield	**1**	Size 1	**HSS-90-B**	House Side Shield 90° Back	**BLS**	Black Gloss Smooth
		2	Size 2	**HSS-90-F**	House Side Shield 90° Front	**BLT**	Black Matte Textured
		3	Size 3	**HSS-90-S**	House Side Shield 90° Side	**DBS**	Dark Bronze Gloss Smooth
		4	Size 4	**HSS-270-BSS**	House Side Shield 270° Back/Side/Side	**DBT**	Dark Bronze Matte Textured
				HSS-270-FSS	House Side Shield 270° Front/Side/Side	**GTT**	Graphite Matte Textured
				HSS-270-FSB	House Side Shield 270° Front/Side/Back	**LGS**	Light Gray Gloss Smooth
				HSS-360	House Side Shield 360°	**PSS**	Platinum Silver Smooth
				BC	Back Light Control	**WHS**	White Gloss Smooth
MTG	Mounting			**A**	Arm mount for square pole (B3 Drill Pattern) (Does not include round pole adapter)	**WHT**	White Matte Textured
				ASQU	Universal Arm Mount for square pole	**VGT**	Green Landscape Decorative
				AAU	Adjustable Arm for pole mounting	**LEG**	Legacy Colors
				ADU	Decorative upswept Arm	**Color Option**	
				RPA	Round Pole Adapter	**CC**	Custom Color
				MAF	Mast Arm Fitter for 2-3/8" OD horizontal arm		
				K	Knuckle		
				T	Trunnion		
				WB	Wall Bracket (compatible with universal arm mounts)		

Accessory Type		Option	
MSC	Miscellaneous	**BIRD SPK**	Bird Spike

Current Control Solutions — Accessories (Sold Separately)

NX Lighting Controls

☐ **NXOFM-1R1D-UNV** On-fixture Module (7-pin), On / Off / Dim, Daylight Sensor with NX Radio and Bluetooth® Radio, 120–480VAC

LightGRID+ Lighting Control

☐ **WIR-RME-L** On-fixture Module (7-pin or 5-pin), On / Off / Dim, Daylight Sensor with LightGRID+ Radio, 110–480VAC

☐ **SCP-REMOTE** Remote Control for SCP/_F option. Order at at least one per project to program and control the occupancy sensor

For additional information related to these accessories please visit currentlighting.com/beacon. Options provided for use with integrated sensor, please view specification sheet ordering information table for details.

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DATE: LOCATION:

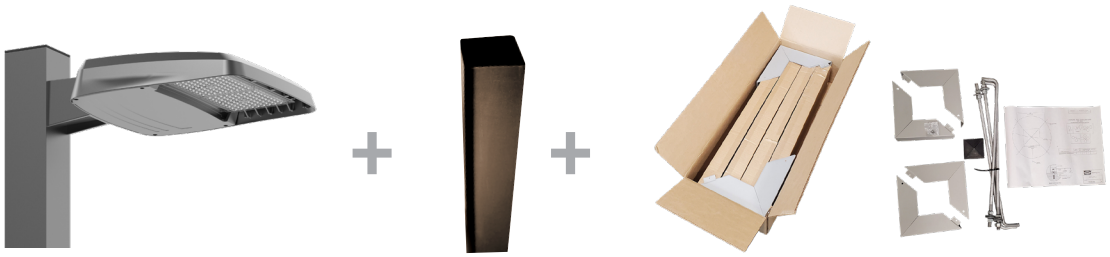
TYPE: PROJECT:

CATALOG #:

VIPER Area/Site

VIPER LUMINAIRE

VIPER POLE EXPRESS COMBO – ORDERING GUIDE



Catalog Number	Pole	Single or Double Head	Fixture	Lumens*	Wattage	Distribution	CCT/CRI	Mounting	Finish
VP-1-160-4K-3-LS-S20	**20' Square Straight Steel**	Single	**VP-1-160-4K-3-LS**	19584	158W	Type 3	4000K/70CRI	Universal Arm	Dark Bronze Textured
VP-1-160-4K-3-LS-S20-2X	**20' Square Straight Steel**	Double	**VP-1-160-4K-3-LS**	19584	158W	Type 3	4000K/70CRI	Universal Arm	Dark Bronze Textured
VP-1-160-4K-4F-LS-S20	**20' Square Straight Steel**	Single	**VP-1-160-4K-4F-LS**	19426	158W	Type 4F	4000K/70CRI	Universal Arm	Dark Bronze Textured
VP-1-160-4K-4F-LS-S20-2X	**20' Square Straight Steel**	Double	**VP-1-160-4K-4F-LS**	19426	158W	Type 4F	4000K/70CRI	Universal Arm	Dark Bronze Textured
VP-1-160-4K-3-LS-S25	**25' Square Straight Steel**	Single	**VP-1-160-4K-3-LS**	19584	158W	Type 3	4000K/70CRI	Universal Arm	Dark Bronze Textured
VP-1-160-4K-3-LS-S25-2X	**25' Square Straight Steel**	Double	**VP-1-160-4K-3-LS**	19584	158W	Type 3	4000K/70CRI	Universal Arm	Dark Bronze Textured
VP-1-160-4K-4F-LS-S25	**25' Square Straight Steel**	Single	**VP-1-160-4K-4F-LS**	19426	158W	Type 4F	4000K/70CRI	Universal Arm	Dark Bronze Textured
VP-1-160-4K-4F-LS-S25-2X	**25' Square Straight Steel**	Double	**VP-1-160-4K-4F-LS**	19426	158W	Type 4F	4000K/70CRI	Universal Arm	Dark Bronze Textured
VP-1-160-5K-3-LS-S20	**20' Square Straight Steel**	Single	**VP-1-160-5K-3-LS**	19499	158W	Type 3	5000K/70CRI	Universal Arm	Dark Bronze Textured
VP-1-160-5K-3-LS-S20-2X	**20' Square Straight Steel**	Double	**VP-1-160-5K-3-LS**	19499	158W	Type 3	5000K/70CRI	Universal Arm	Dark Bronze Textured
VP-1-160-5K-4F-LS-S20	**20' Square Straight Steel**	Single	**VP-1-160-5K-4F-LS**	19186	158W	Type 4F	5000K/70CRI	Universal Arm	Dark Bronze Textured
VP-1-160-5K-4F-LS-S20-2X	**20' Square Straight Steel**	Double	**VP-1-160-5K-4F-LS**	19186	158W	Type 4F	5000K/70CRI	Universal Arm	Dark Bronze Textured
VP-1-160-5K-3-LS-S25	**25' Square Straight Steel**	Single	**VP-1-160-5K-3-LS**	19499	158W	Type 3	5000K/70CRI	Universal Arm	Dark Bronze Textured
VP-1-160-5K-3-LS-S25-2X	**25' Square Straight Steel**	Double	**VP-1-160-5K-3-LS**	19499	158W	Type 3	5000K/70CRI	Universal Arm	Dark Bronze Textured
VP-1-160-5K-4F-LS-S25	**25' Square Straight Steel**	Single	**VP-1-160-5K-4F-LS**	19186	158W	Type 4F	5000K/70CRI	Universal Arm	Dark Bronze Textured
VP-1-160-5K-4F-LS-S25-2X	**25' Square Straight Steel**	Double	**VP-1-160-5K-4F-LS**	19186	158W	Type 4F	5000K/70CRI	Universal Arm	Dark Bronze Textured

VIPER POLE EXPRESS COMBO – STOCK LUMINAIRE SKUS

Catalog Number	Lumens	LPW	Distribution	Wattage	CCT/CRI	Voltage	Mounting	Finish
VP-1-160-4K-3-LS	19584	123.9	3	158W	4000K/70CRI	120-277V	Universal Arm with RPA (A3U)	Dark Bronze Textured
VP-1-160-4K-4F-LS	19426	122.9	4F	158W	4000K/70CRI	120-277V	Universal Arm with RPA (A3U)	Dark Bronze Textured
VP-1-160-5K-3-LS	19499	123.4	3	158W	5000K/70CRI	120-277V	Universal Arm with RPA (A3U)	Dark Bronze Textured
VP-1-160-5K-4F-LS	19186	121.4	4F	158W	5000K/70CRI	120-277V	Universal Arm with RPA (A3U)	Dark Bronze Textured

VIPER POLE EXPRESS COMBO – ACCESSORIES

Catalog Number	Description
VM14DB	Vibration Dampener, mounts to top of pole for reduced vibration



VM14DB

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VIPER Area/Site

VIPER LUMINAIRE

OUTDOOR LIGHTING CONTROLS OPTIONS

CONTROLS FUNCTIONALITY

LIGHTGRID+ NX LIGHTING CONTROLS MOBILE APP

	Control Option Ordering Logic & Description		Control Option Functionality									Control Option Components	
			Networkable	Grouping	Scheduling	Occupancy/ Motion	Daylight Harvesting	0-10V Dimming	On/Off Control	Bluetooth App Programming	Sensor Height		
NX Wireless	NXOFM1R1D-UNV	NX 7-Pin Twist-Lock® with NX Networked Wireless Radio, Integral Automatic Dimming Photocell, Integral Single Pole Relay with Dimming, and Bluetooth Programming	✓	✓	✓	Paired with external control	✓	✓	✓	✓	–		NXOFM-1R1D-UV
NX Wireless	NXW	NX Networked Wireless Radio Module NXRM2 and Bluetooth Programming, without Sensor	✓	✓	✓	–	–	✓	✓	✓	–		NXRM2-H
NX Wireless	NXWS12F	NX Networked Wireless Enabled Integral NXSMP2-OMNI-O PIR Occupancy Sensor with Automatic Dimming Photocell and Bluetooth Programming	✓	✓	✓	✓	✓	✓	✓	✓	12ft		NXSMP2-OMNI-O
NX Wireless	NXWS16F	NX Networked Wireless Enabled Integral NXSMP2-LMO PIR Occupancy Sensor with Automatic Dimming Photocell and Bluetooth Programming	✓	✓	✓	✓	✓	✓	✓	✓	16ft		NXSMP2-LMO
NX Wireless	NXWS40F	NX Networked Wireless Enabled Integral NXSMP2-HMO PIR Occupancy Sensor with Automatic Dimming Photocell and Bluetooth Programming	✓	✓	✓	✓	✓	✓	✓	✓	40ft		NXSMP2-HMO
LightGRID+	WIR	LightGRID+ In-Fixture Module	✓	–	✓	–	–	✓	✓	Gateway	–		WIR
LightGRID+	WIR-RME-L	LightGRID+ On Fixture Module	✓	–	✓	–	–	✓	✓	Gateway	–		WIR-RME-L
LightGRID+	WIRSC	LightGRID+ Module and Occupancy Sensor	✓	✓	✓	✓	✓	✓	✓	Gateway	14ft - 40ft		BTMSP
Independent	BTSO-12F	Bluetooth® Programmable, BTSMP-OMNI-O PIR Occupancy Sensor with Automatic Dimming Photocell and 360° Lens	–	–	–	✓	✓	✓	✓	✓	12ft		BTSMP-OMNI-O
Independent	BTS-14F	Bluetooth® Programmable, BTSMP-LMO PIR Occupancy Sensor with Automatic Dimming Photocell and 360° Lens	–	–	–	✓	✓	✓	✓	✓	14ft		BTSMP-LMO
Independent	BTS-40F	Bluetooth® Programmable, BTSMP-HMO PIR Occupancy Sensor with Automatic Dimming Photocell and 360° Lens	–	–	–	✓	✓	✓	✓	✓	40ft		BTSMP-HMO

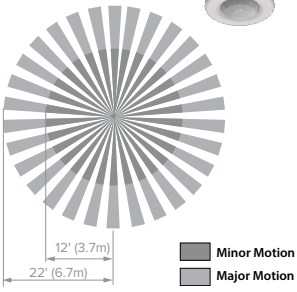
DEFAULT SETTINGS

NX Wireless	
Occupancy Sensor	Enabled
Occupancy Sensor Sensitivity	7
Occupancy Sensor Timeout	15 Minutes
Occupied Dim Level	100%
Unoccupied Dim Level	0%
Daylight Sensor	Disabled
Bluetooth	Enabled
2.4GHz Wireless Mesh	On
"Passcode Factory Passcode: HubbN3T!"	Enabled

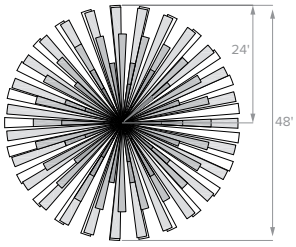
Stand Alone	
Occupancy Sensor	Enabled
Occupancy Sensor Sensitivity	7
Occupancy Sensor Timeout	8 Minutes
Occupied Dim Level	100%
Unoccupied Dim Level	50%
Daylight Sensor	Disabled

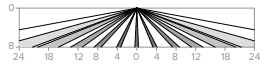
NX WIRELESS COVERAGE PATTERNS

NXSMP2-OMNI



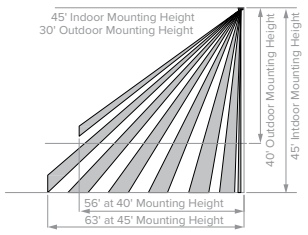
NXSMP2-LMO





Sensor Lens Coverage and Detection Patterns When Mounted at 8ft with Low Mount Lens

NXSMP2-HMO



Sensor Lens Coverage and Detection Patterns When Mounted at 40ft and 45ft with Standard Lens

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VIPER Area/Site

VIPER LUMINAIRE

DATE: | LOCATION:

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NX LIGHTING CONTROLS FREE APP



The NX Lighting Controls App is free to use mobile application for programming both NX Lighting Controls System or Standalone Bluetooth Sensors. The mobile app allows you to configure devices, discover and setup wireless enable luminiares and program NX system settings.

Apple App: https://apps.apple.com/us/app/nx-lighting-controls/id962112904

Google Play: https://play.google.com/store/apps/details?id=io.cordova.NXBTR&hl=en_US&gl=US

Apple App

Google Play

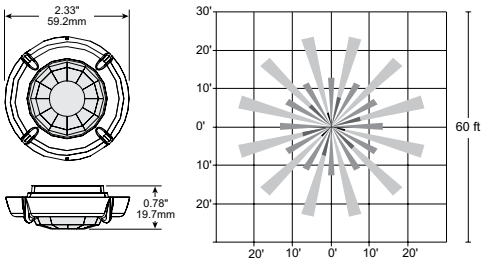
CONTROLS TECH SUPPORT 800-888-8006 (7:00 AM - 7:00 PM)

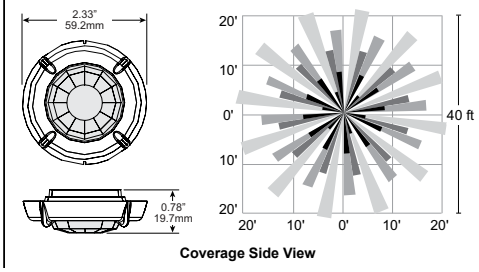
OUTDOOR LIGHTING CONTROLS OPTIONS

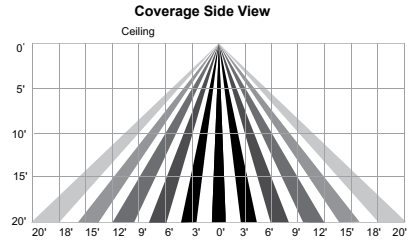
CONTROLS FUNCTIONALITY

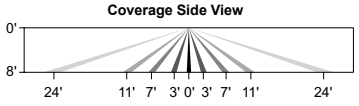
	Control Option Ordering Logic & Description		Control Option Functionality									Control Option Components
			Networkable	Grouping	Scheduling	Occupancy/ Motion	Daylight Harvesting	0-10V Dimming	On/Off Control	Bluetooth App Programming	Sensor Height	
Independent	SCP_F	Sensor Control Programmable, 8F or 40F	–	–	–	✓	✓	✓	✓	–	8ft or 40ft	SCP_F
	ADD	AutoDIM Timer Based Dimming	–	–	✓	–	–	–	✓	–	–	ADD
	ADT	AutoDIM Time of Day Dimming	–	–	✓	–	–	–	✓	–	–	ADT
	7PR	7-Pin Receptacle	–	–	Paired with external control	–	Paired with external control	–	Paired with external control	–	–	7PR
	7PR-SC	7-Pin Receptacle with shorting cap	–	–	–	–	–	–	–	–	–	7PR-SC
	3PR	3-Pin twist lock	–	–	–	–	–	–	Paired with external control	–	–	3PR
	3PR-SC	3-Pin Receptacle with shorting cap	–	–	–	–	–	–	–	–	–	3PR-SC
	3PR-TL	3-Pin with photocontrol	–	–	–	–	✓	–	✓	–	–	3PR-TL

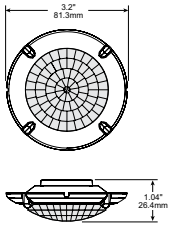
COVERAGE PATTERNS FOR SCP_F

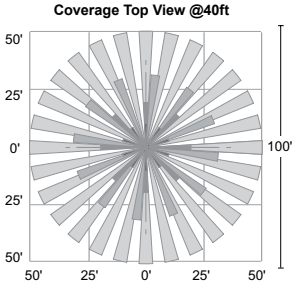


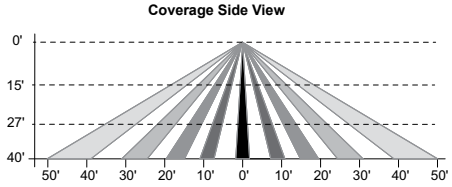












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DATE: LOCATION:

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VIPER Area/Site

VIPER LUMINAIRE

PROGRAMMED CONTROLS

ADD-AutoDim Timer Based Options

- Light delay options from 1-9 hours after the light is turned on to dim the light by 10-100%. To return the luminaire to its original light level there are dim return options from 1-9 hours after the light has been dimmed previously.

EX: ADD-6-5-R6

ADD Control Options	Configurations Choices	Example Choice Picked
Auto-Dim Options	1-9 Hours	6 - Delay 6 hours
Auto-Dim Brightness	10-100% Brightness	5 - Dim to 50% brightness
Auto-Dim Return	Delay 0-9 Hours	R6 - Return to full output after 6 hours

ADT-AutoDim Time of Day Based Option

- Light delay options from 1AM-9PM after the light is turned on to dim the light by 10-100%. To return the luminaire to its original light level there are dim return options from 1AM-9PM after the light has been dimmed previously.

EX: ADT-6-5-R6

ADD Control Options	Configurations Choices	Example Choice Picked
Auto-Dim Options	12-3 AM and 6-11 PM	6 - Dim at 6PM
Auto-Dim Brightness	10-100% Brightness	5 - Dim to 50%
Auto-Dim Return	12-6 AM and 9-11P	R6 - Return to full output at 6AM

ORDERING GUIDE

Auto Dim Code	Timer Base (ADD) Auto-Dim Options		Auto Dim Cod	Time of Day (ADT) Auto-Dim Options
D1	Delay 1 hour		T0	Delay Midnight
D2	Delay 2 hours		T1	Delay 1 AM
D3	Delay 3 hours		T2	Delay 2 AM
D4	Delay 4 hours		T3	Delay 3 AM
D5	Delay 5 hours	OR	T4	Delay 10 PM
D6	Delay 6 hours		T5	Delay 11 PM
D7	Delay 7 hours		T6	Delay 6 PM
D8	Delay 8 hours		T7	Delay 7 PM
D9	Delay 9 hours		T8	Delay 8 PM
D0	Delay 0 hours		T9	Delay 9 PM

Code	Auto-Dim Brightness
0	100% Brightness
1	10% Brightness
2	20% Brightness
3	30% Brightness
4	40% Brightness
5	50% Brightness
6	60% Brightness
7	70% Brightness
8	80% Brightness
9	90% Brightness

Code	Auto-Dim Return Options
R1	Delay 1 hour or 1 AM
R2	Delay 2 hours or 2 AM
R3	Delay 3 hours or 3 AM
R4	Delay 4 hours or 4 AM
R5	Delay 5 hours or 5 AM
R6	Delay 6 hours or 6 AM
R7	Delay 7 hours or 7 AM
R8	Delay 8 hours or 8 AM
R9	Delay 9 hours or 9 AM
R0	Delay 0 hours or 12 AM

Code	Auto-Dim Brightness
0	100% Brightness
1	10% Brightness
2	20% Brightness
3	30% Brightness
4	40% Brightness
5	50% Brightness
6	60% Brightness
7	70% Brightness
8	80% Brightness
9	90% Brightness

DELIVERED LUMENS

For delivered lumens, please see Lumens Data PDF on www.Currentlighting.com

PROJECTED LUMEN MAINTENANCE

Ambient Temp.	0	25,000	*TM-21-11 36,000	50,000	100,000	Calculated L_{70} (Hours)
25°C / 77°F	1.00	0.97	0.96	0.95	0.91	408,000
40°C / 104°F	0.99	0.96	0.95	0.94	0.89	356,000

LUMINAIRE AMBIENT TEMPERATURE FACTOR (LATF)

Ambient Temperature		Lumen Multiplier
0°C	32°F	1.03
10°C	50°F	1.01
20°C	68°F	1.00
25°C	77°F	1.00
30°C	86°F	0.99
40°C	104°F	0.98

Micro Strike Lumen Multiplier			
CCT	70 CRI	80 CRI	90 CRI
2700K	–	0.841	–
3000K	0.977	0.861	0.647
3500K	–	0.900	–
4000K	1	0.926	0.699
5000K	1	0.937	0.791
AP-Amber Phosphor Converted Multiplier			
Amber	0.710		

Strike Lumen Multiplier			
CCT	70 CRI	80 CRI	90 CRI
2700K	0.9	0.81	0.62
3000K	0.933	0.853	0.659
3500K	0.959	0.894	0.711
4000K	1	0.9	0.732
5000K	1	0.9	0.732
Monochromatic Amber Multiplier			
Amber	See Amber Spec Sheet		

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VIPER Area/Site

VIPER LUMINAIRE

ELECTRICAL DATA: MICRO STRIKE

# OF LEDS	160						
NOMINAL WATTAGE	35	50	75	100	115	135	160
SYSTEM POWER (W)	34.9	50.5	72.1	97.2	111.9	132.2	157.8
INPUT VOLTAGE (V)	CURRENT (Amps)						
120	0.29	0.42	0.63	0.83	0.96	1.13	1.33
208	0.17	0.24	0.36	0.48	0.55	0.65	0.77
240	0.15	0.21	0.31	0.42	0.48	0.56	0.67
277	0.13	0.18	0.27	0.36	0.42	0.49	0.58
347	0.10	0.14	0.22	0.29	0.33	0.39	0.46
480	0.07	0.10	0.16	0.21	0.24	0.28	0.33

# OF LEDS	320						
NOMINAL WATTAGE	145	170	185	210	235	255	315
SYSTEM POWER (W)	150	166.8	185.7	216.2	240.9	261.5	312
INPUT VOLTAGE (V)	CURRENT (Amps)						
120	1.21	1.42	1.54	1.75	1.96	2.13	2.63
208	0.70	0.82	0.89	1.01	1.13	1.23	1.51
240	0.60	0.71	0.77	0.88	0.98	1.06	1.31
277	0.52	0.61	0.67	0.76	0.85	0.92	1.14
347	0.42	0.49	0.53	0.61	0.68	0.73	0.91
480	0.30	0.35	0.39	0.44	0.49	0.53	0.66

# OF LEDS	480					
NOMINAL WATTAGE	285	320	340	390	425	470
SYSTEM POWER (W)	286.2	316.7	338.4	392.2	423.2	468
INPUT VOLTAGE (V)	CURRENT (Amps)					
120	2.38	2.67	2.83	3.25	3.54	3.92
208	1.37	1.54	1.63	1.88	2.04	2.26
240	1.19	1.33	1.42	1.63	1.77	1.96
277	1.03	1.16	1.23	1.41	1.53	1.70
347	0.82	0.92	0.98	1.12	1.22	1.35
480	0.59	0.67	0.71	0.81	0.89	0.98

# OF LEDS	720				
NOMINAL WATTAGE	435	475	515	565	600
SYSTEM POWER (W)	429.3	475	519.1	565.2	599.9
INPUT VOLTAGE (V)	CURRENT (Amps)				
120	3.63	3.96	4.29	4.71	5.00
208	2.09	2.28	2.48	2.72	2.88
240	1.81	1.98	2.15	2.35	2.50
277	1.57	1.71	1.86	2.04	2.17
347	1.25	1.37	1.48	1.63	1.73
480	0.91	0.99	1.07	1.18	1.25

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VIPER Area/Site

VIPER LUMINAIRE

ELECTRICAL DATA: STRIKE

# OF LEDS	36				
NOMINAL WATTAGE	39	55	85	105	120
SYSTEM POWER (W)	39.6	56.8	83.6	108.2	120.9
INPUT VOLTAGE (V)	CURRENT (Amps)				
120	0.33	0.46	0.71	0.88	0.96
208	0.19	0.26	0.41	0.50	0.55
240	0.16	0.23	0.35	0.44	0.48
277	0.14	0.20	0.31	0.38	0.42
347	0.11	0.16	0.24	0.30	0.33
480	0.08	0.11	0.18	0.22	0.24

# OF LEDS	72				
NOMINAL WATTAGE	115	145	180	210	240
SYSTEM POWER (W)	113.7	143.2	179.4	210.2	241.7
INPUT VOLTAGE (V)	CURRENT (Amps)				
120	1.00	1.21	1.50	1.75	1.79
208	0.58	0.70	0.87	1.01	1.03
240	0.50	0.60	0.75	0.88	0.90
277	0.43	0.52	0.65	0.76	0.78
347	0.35	0.42	0.52	0.61	0.62
480	0.25	0.30	0.38	0.44	0.45

# OF LEDS	108				
NOMINAL WATTAGE	215	250	280	325	365
SYSTEM POWER (W)	214.8	250.8	278.3	324.7	362.6
INPUT VOLTAGE (V)	CURRENT (Amps)				
120	2.00	2.08	2.33	3.04	2.67
208	1.15	1.20	1.35	1.75	1.54
240	1.00	1.04	1.17	1.52	1.33
277	0.87	0.90	1.01	1.32	1.16
347	0.69	0.72	0.81	1.05	0.92
480	0.50	0.52	0.58	0.76	0.67

# OF LEDS		162				
NOMINAL WATTAGE	320	365	405	445	485	545
SYSTEM POWER (W)	322.1	362.6	403.6	445.1	487.1	543.9
INPUT VOLTAGE (V)		CURRENT (Amps)				
120	2.71	2.67	3.38	3.71	4.04	4.54
208	1.56	1.54	1.95	2.14	2.33	2.62
240	1.35	1.33	1.69	1.85	2.02	2.27
277	1.17	1.16	1.46	1.61	1.75	1.97
347	0.94	0.92	1.17	1.28	1.40	1.57
480	0.68	0.67	0.84	0.93	1.01	1.14

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VIPER Area/Site

VIPER LUMINAIRE

DATE: LOCATION:

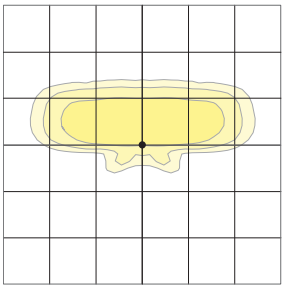
TYPE: PROJECT:

CATALOG #:

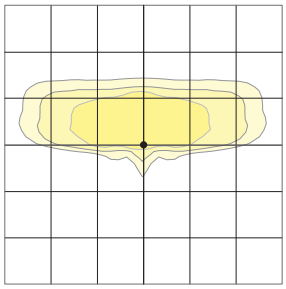
MICRO STRIKE PHOTOMETRY

The following diagrams represent the general distribution options offered for this product. For detailed information on specific product configurations, see website photometric test reports.

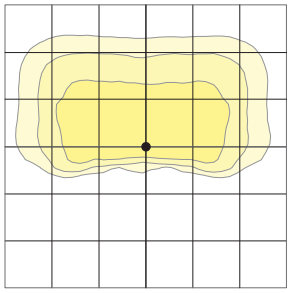
Type 2



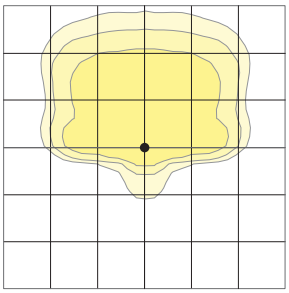
Type 3



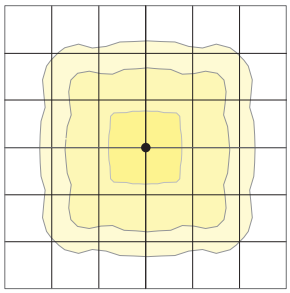
Type 4 Wide



Type 4F



Type 5QW



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VIPER Area/Site

VIPER LUMINAIRE

DATE: LOCATION:

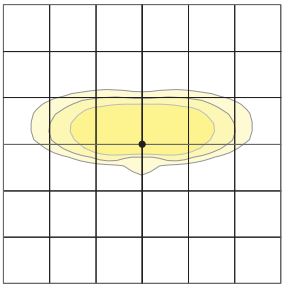
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CATALOG #:

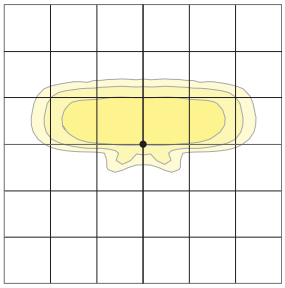
OPTIC STRIKE PHOTOMETRY

The following diagrams represent the general distribution options offered for this product. For detailed information on specific product configurations, see website photometric test reports.

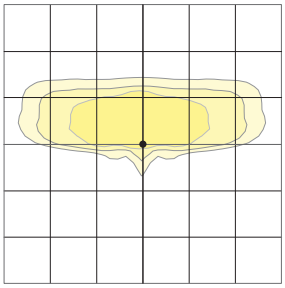
Type FR – Front Row/Auto Optic



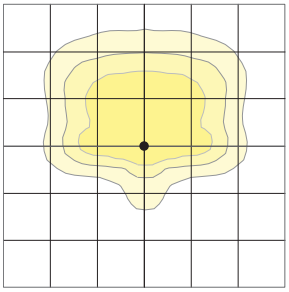
Type 2



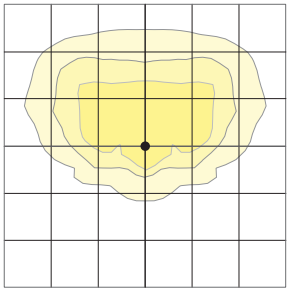
Type 3



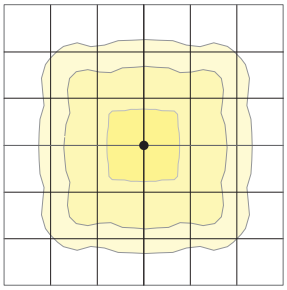
Type 4 Forward



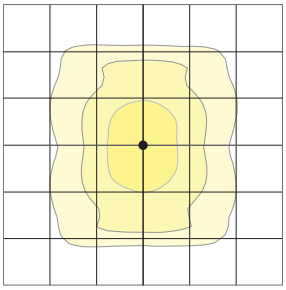
Type 4 Wide



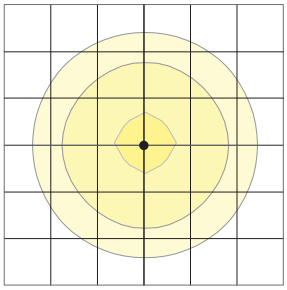
Type 5QM



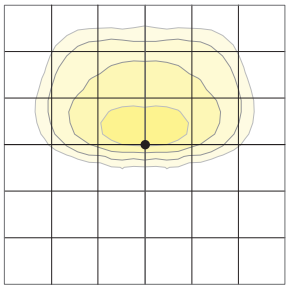
Type 5RW (rectangular)



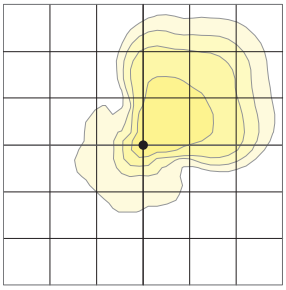
Type 5W (round wide)



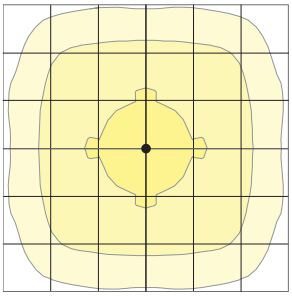
Type TC



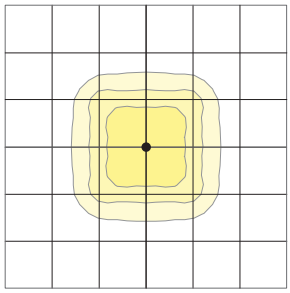
Type Corner



Type 5QW



Type 5QN



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DATE: LOCATION:

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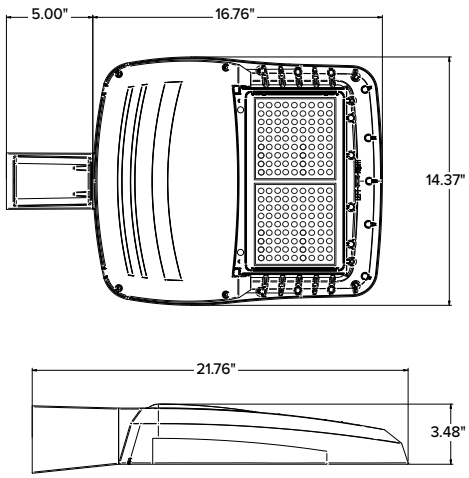
CATALOG #:

VIPER Area/Site

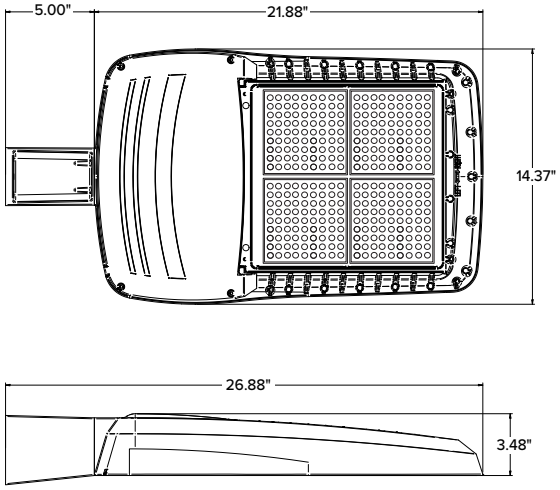
VIPER LUMINAIRE

DIMENSIONS

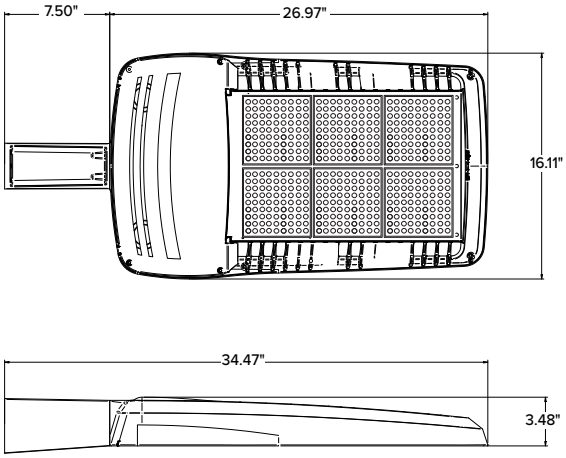
SIZE 1



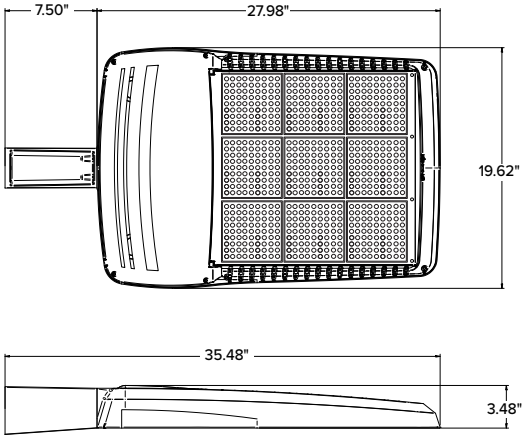
SIZE 2



SIZE 3



SIZE 4



	EPA				
	VP1 (Size 1)	VP2 (Size 2)	VP3 (Size 3)	VP4 (Size 4)	Config.
Single Fixture	0.454	0.555	0.655	0.698	
Two at 180	0.908	1.110	1.310	1.396	
Two at 90	0.583	0.711	0.857	0.948	
Three at 90	1.037	1.266	1.512	1.646	
Three at 120	0.943	1.155	1.392	1.680	
Four at 90	1.166	1.422	1.714	1.896	

	Weight	
	lbs	kgs
VP1 (Size 1)	13.7	6.2
VP2 (Size 2)	16.0	7.26
VP3 (Size 3)	25.9	11.7
VP4 (Size 4)	30.8	13.9

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VIPER Area/Site

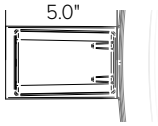
VIPER LUMINAIRE

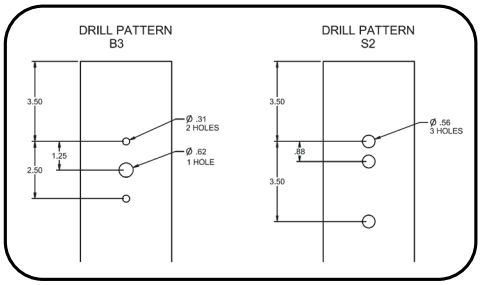
MOUNTING

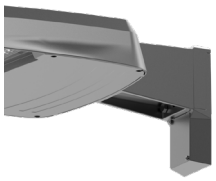


A–STRAIGHT ARM MOUNT

Fixture ships with integral arm for ease of installation. Compatible with Current Outdoor B3 drill pattern for ease of installation on square poles. For round poles add applicable suffix (2/3/4/5)

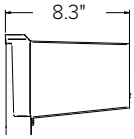


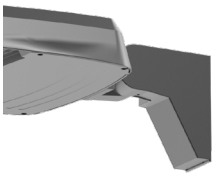




ASQU–UNIVERSAL ARM MOUNT

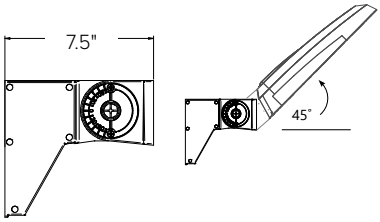
Universal mounting block for ease of installation. Compatible with drill patterns from 1.5" to 5.25" and Current drill pattern S2. For round poles add applicable suffix (2/3/4/5)

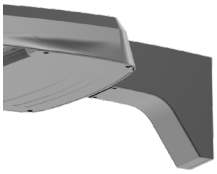




AAU–ADJUSTABLE ARM FOR POLE MOUNTING

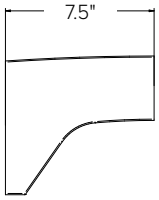
Rotatable arm mounts directly to pole. Compatible with drill patterns from 1.5" to 5.25" and Current drill pattern S2 and B3. For round poles add applicable suffix (2/3/4/5). Rotatable in 5˚ aiming angle increments. Micro Strike configurations have a 45° aiming limitation. Strike configurations have a 30° aiming limitation.

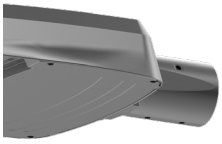




ADU–DECORATIVE UPSWEPT ARM

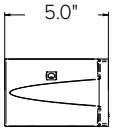
Upswept Arm compatible with drill patterns from 1.5" to 5.25" and Current drill pattern S2. For round poles add applicable suffix (2/3/4/5).

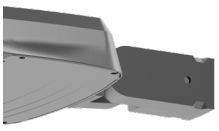




MAF–MAST ARM FITTER

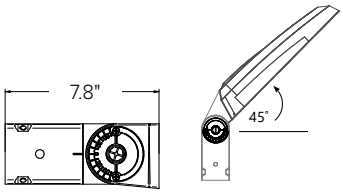
Fits 2-3/8" OD horizontal tenons.

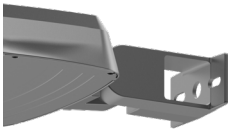




K–KNUCKLE

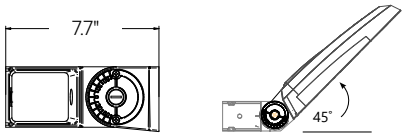
Rotatable in 5-degree aiming angle increments, fits 2-3/8" tenons or pipes. Micro Strike configurations have a 45° aiming limitation. Strike configurations have a 30° aiming limitation.

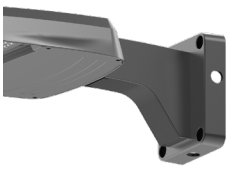




T–TRUNNION

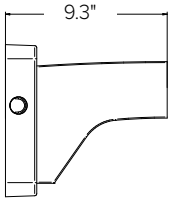
Trunnion for surface and crossarm mounting using (1) 3/4" or (2) 1/2" size through bolts. Micro Strike configurations have a 45° aiming limitation. Strike configurations have a 30° aiming limitation.





WM–WALL MOUNT

Compatible with universal arm mount, adjustable arm mount, and decorative arm mount. The WA option uses the same wall bracket but replaces the decorative arm with an adjustable arm.



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DATE: LOCATION:

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CATALOG #:

VIPER Area/Site

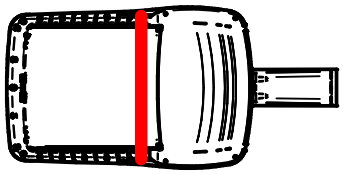
VIPER LUMINAIRE

ADDITIONAL INFORMATION (CONTINUED)

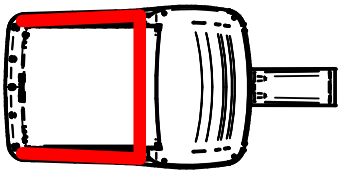
HOUSE SIDE SHIELD FIELD INSTALL ACCESSORIES

HSS has a depth of 5" for all Viper sizes
Not to be used with Occupancy Sensors as the shield may block the light to the sensor.

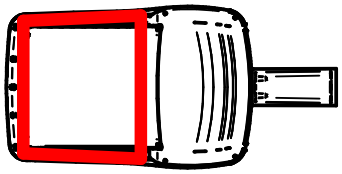
VPR2x HSS-90-B-xx



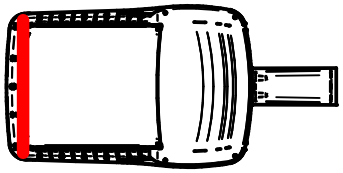
VPR2x HSS-270-BSS-xx



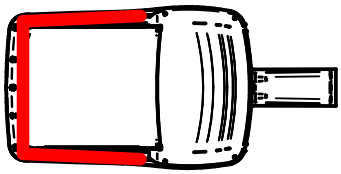
VPR2x HSS-360-xx



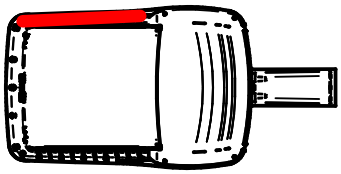
VPR2x HSS-90-F-xx



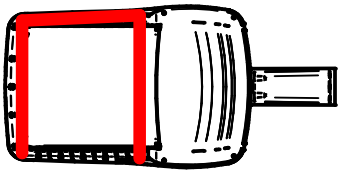
VPR2x HSS-270-FSS-xx



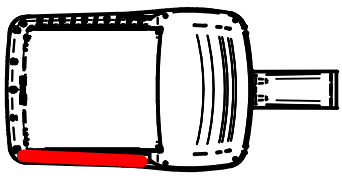
VPR2x HSS-90-S-xx



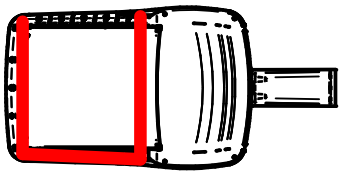
VPR2x HSS-270-FSB-xx



VPR2x HSS-90-S-xx



VPR2x HSS-270-FSB-xx



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BEACON
design . performance . technology

SSA-B Series Poles

SQUARE STRAIGHT ALUMINUM

DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	

POLE

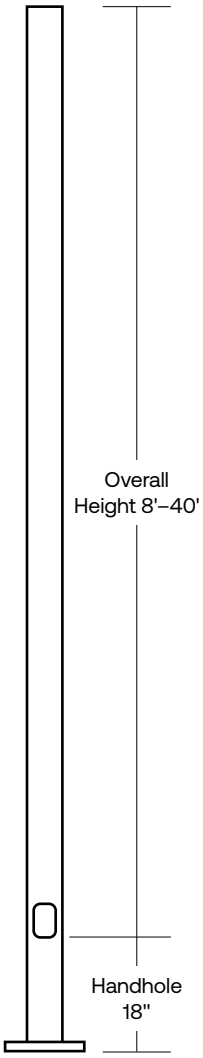
SPECIFICATIONS

CONSTRUCTION

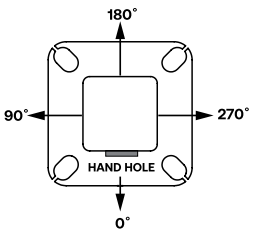
- Shaft: One-piece straight aluminum with square cross section, flat sides and minimum radius on all corners; Extruded shafts of 6061-T6 aluminum in 1/8", 3/16", or 1/4" thickness. Base plate of 356 cast aluminum
- Base cover: Four (4) individual bolt covers provided, painted to match pole and base finish
- Pole cap: Pole shaft supplied with removable cover when applicable; Tenon and post-top configurations also available
- Hand hole: Rectangular 3x5 aluminum 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
  - Anchor bolt part numbers: 3/4 x 30 x 3 — TAB-30-M38
    1 x 36 x 4 — TAB-36-M38
- Durable thermoset polyester powder coat paint finish with nominal 3.0 mil thickness
- Powder paint finish coat available in 12 standard colors; Custom colors available; RAL number preferable

INSTALLATION

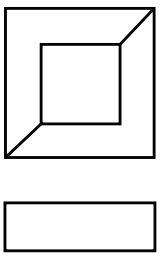
- Lighting installations for side and top mounting of luminaires with effective projected area (EPA) not exceeding maximum allowable loading of the specified pole in its installed geographic location



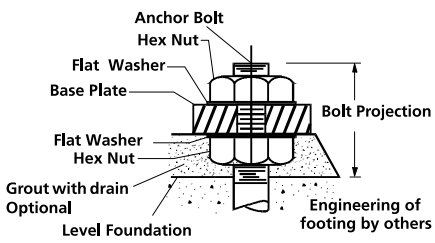
BASE



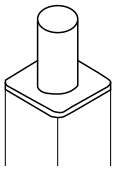
BASE COVER



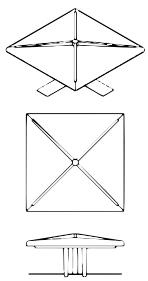
BASE DETAIL



TENON



POLE CAP



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SSA-B Series Poles

SQUARE STRAIGHT ALUMINUM

DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	

ORDERING INFORMATION

Example: SSA-B–25–50–B–2L–S2–DBT–UL

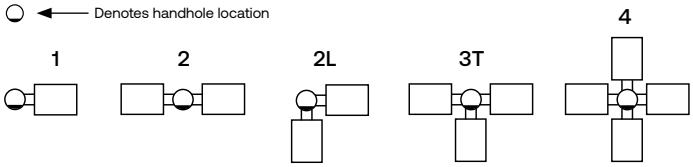
SSA-B	–	30	–	60	–	C	–	1	–	B3	–	BLT	–	VM1
Series		**Height**		**Shaft**		**Thickness**		**Mounting**		**Drill Pattern**		**Finish**		**Options**
SSA-B Square Straight Aluminum Pole Beacon		**Reference page 3 Ordering matrix**		**Reference page 3 Ordering matrix**		**Reference page 3 Ordering matrix** A - .125" Wall B - .188" Wall C - .250" Wall		**1** Single arm mount **2** Two fixtures at 180° **2L** Two fixtures at 90° **3T** Three fixtures at 90° **4** Four fixtures at 90° **TA** Tenon (2.38" OD x 4" Tall) **OT** Open Top (includes pole cap)		**B1** Cruzer, "AM" arm **B3** 2 bolt (2-1/2" spacing), Viper "A" arm **S2** 2 bolt (3-1/2" spacing), Viper "AD" arm **UDP** Universal Drill Pattern		**BLT** Black Matte Textured **BLS** Black Gloss Smooth **DBT** Dark Bronze Matte Textured **DBS** Dark Bronze Gloss Smooth **GTT** Graphite Matte Textured **LGT** Light Grey Matte Textured **LGS** Light Grey Gloss Smooth **PSS** Platinum Silver Smooth **WHT** White Matte Textured **WHS** White Gloss Smooth **VGT** Verde Green Textured **Color Option** **CC** Custom Color[2]		**GFI**[3] 20 Amp GFCI Receptacle and Cover **EHH**[3] Extra Handhole **C05**[3] .5" Coupling **C07**[3] .75" Coupling **C20**[3] 2" Coupling **MPB**[3] Mid-pole Luminaire Bracket **VM1**[4] Mode vibration dampener **VM2**[5] 2nd mode vibration dampener **LAB** Less Anchor Bolts **UL** UL Certified

Accessories (Order Separately)

- ☐ **VM2S08** Field-installed 2nd mode vibration dampener - 8 ft
- ☐ **VM2S12** Field-installed 2nd mode vibration dampener - 12 ft
- ☐ **VM2S16** Field-installed 2nd mode vibration dampener - 16 ft
- ☐ **VM2S20** Field-installed 2nd mode vibration dampener - 20 ft
- ☐ **VM2S25** Field-installed 2nd mode vibration dampener - 25 ft

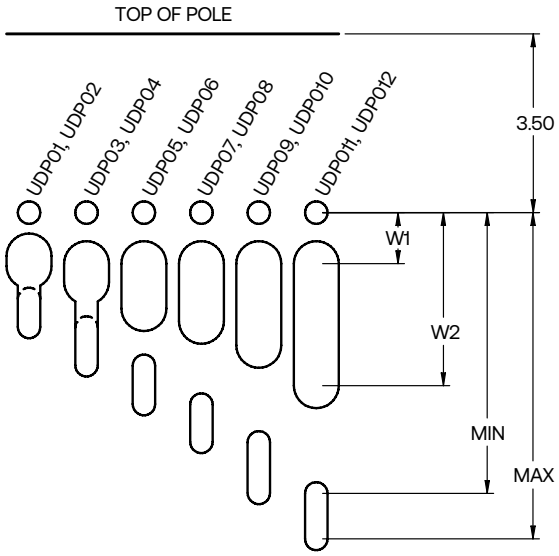
1 Removable tenon used in conjunction with side arm mounting. First specify desired arm configuration followed by the "TR" notation. Example: SSA-B-25-40-A-1-B1-TR-BBTT.
2 Custom colors available; RAL number preferable
3 Specify option location using logic found on page 3 (Option Orientation).
4 VM1 recommended on poles 20' and taller with EPA of less than 1.
5 There will be a weld witness mark on the side of the pole with the Factory installed VM2

MOUNTING ORIENTATION



DRILL PATTERNS

UNIVERSAL DRILL PATTERN (UDP)



Two Bolt Mounting with Center Wireway						
Mounting Hardware	Universal Mounting Patterns					
⅜" or less	UDP01	UDP03	UDP05	UDP07	UDP09	UDP011
7/16" to ½"	UDP02	UDP04	UDP06	UDP08	UDP010	UDP012
"Min" Attachment Dimension	1.69	2.25	3.00	3.76	4.50	5.50
"Max" Attachment Dimension	2.24	2.99	3.75	4.49	5.49	6.00
W1 (Wireway min)	0.85	1.00	1.00	1.00	1.00	1.00
W2 (Wireway max)	1.05	1.36	1.88	2.13	2.60	3.00

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SSA-B Series Poles

SQUARE STRAIGHT ALUMINUM

DATE: | LOCATION:

TYPE: | PROJECT:

CATALOG #:

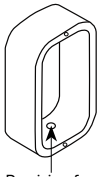
ORDERING INFORMATION (CONTINUED)

CATALOG NUMBER	HEIGHT		NOMINAL SHAFT DIMENSIONS	WALL THICKNESS	BOLT CIRCLE (SUGGESTED)	BASE PLATE SIZE	ANCHOR BOLT SIZE	BOLT PROJECTION	POLE WEIGHT (LBS)
	FEET	METERS							
SSA-B-08-40-A	8	2.4	4" Square	.125"	8.5"	9.88 x 2"	3/4 x 30 x 3"	3"	32
SSA-B-10-40-A	10	3.0	4" Square	.125"	8.5"	9.88 x 2"	3/4 x 30 x 3"	3"	37
SSA-B-12-40-A	12	3.7	4" Square	.125"	8.5"	9.88 x 2"	3/4 x 30 x 3"	3"	42
SSA-B-14-40-A	14	4.3	4" Square	.125"	8.5"	9.88 x 2"	3/4 x 30 x 3"	3"	47
SSA-B-16-40-A	16	4.9	4" Square	.125"	8.5"	9.88 x 2"	3/4 x 30 x 3"	3"	52
SSA-B-18-40-A	18	5.5	4" Square	.125"	8.5"	9.88 x 2"	3/4 x 30 x 3"	3"	57
SSA-B-20-40-A	20	6.1	4" Square	.125"	8.5"	9.88 x 2"	3/4 x 30 x 3"	3"	62
SSA-B-16-40-B	16	4.9	4" Square	.188"	8.5"	9.88 x 2"	3/4 x 30 x 3"	3"	74
SSA-B-18-40-B	18	5.5	4" Square	.188"	8.5"	9.88 x 2"	3/4 x 30 x 3"	3"	80
SSA-B-20-40-B	20	6.1	4" Square	.188"	8.5"	9.88 x 2"	3/4 x 30 x 3"	3"	85
SSA-B-18-50-B	18	5.5	5" Square	.188"	10.5"	11.25" x 2.5"	3/4 x 30 x 3"	3.5"	91
SSA-B-20-50-B	20	6.1	5" Square	.188"	10.5"	11.25" x 2.5"	3/4 x 30 x 3"	3.5"	107
SSA-B-25-50-B	25	7.6	5" Square	.188"	10.5"	11.25" x 2.5"	3/4 x 30 x 3"	3.5"	130
SSA-B-16-60-B	16	4.9	6" Square	.188"	12"	12.75" x 2.75"	1 x 36 x 4"	3.75"	105
SSA-B-18-60-B	18	5.5	6" Square	.188"	12"	12.75" x 2.75"	1 x 36 x 4"	3.75"	130
SSA-B-20-60-B	20	6.1	6" Square	.188"	12"	12.75" x 2.75"	1 x 36 x 4"	3.75"	155
SSA-B-25-60-B	25	7.6	6" Square	.188"	12"	12.75" x 2.75"	1 x 36 x 4"	3.75"	180
SSA-B-30-60-B	30	9.1	6" Square	.188"	12"	12.75" x 2.75"	1 x 36 x 4"	3.75"	210
SSA-B-16-60-C	16	4.9	6" Square	.250"	12"	12.75" x 2.75"	1 x 36 x 4"	3.75"	121
SSA-B-18-60-C	18	5.5	6" Square	.250"	12"	12.75" x 2.75"	1 x 36 x 4"	3.75"	144
SSA-B-20-60-C	20	6.1	6" Square	.250"	12"	12.75" x 2.75"	1 x 36 x 4"	3.75"	166
SSA-B-25-60-C	25	7.6	6" Square	.250"	12"	12.75" x 2.75"	1 x 36 x 4"	3.75"	224
SSA-B-30-60-C	30	9.1	6" Square	.250"	12"	12.75" x 2.75"	1 x 36 x 4"	3.75"	258

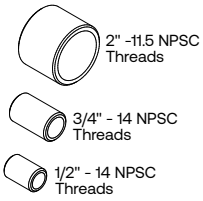
Notes:
- Factory supplied template must be used when setting anchor bolts. Current will deny any claim for incorrect anchorage placement resulting from failure to use factory supplied template and anchor bolts.
- For more information about pole vibration and vibration dampeners, please consult factory.
- Unwrap poles immediately upon receipt to avoid condensation build up and possible corrosion.

[1] There will be a weld witness mark on the side of the pole with the Factory installed VM2.

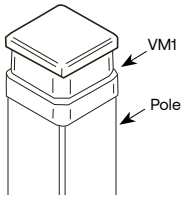
EHH
Extra handhole



C05 / C07 / C20
Coupling



VM1
1st mode vibration dampener



Field Installed Pole Top dampener designed to reduce pole top deflection or sway. VM1 is recommended for pole systems 25' and taller with a total EPA of 1.0 or less.

VM2[1]
2nd mode vibration dampener



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

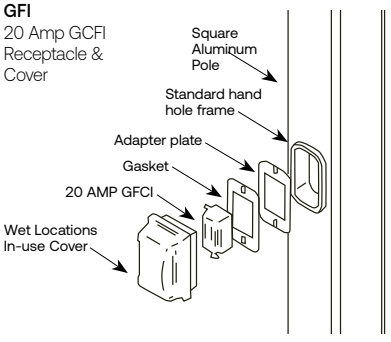
VM2SXX
Field-installed 2nd mode vibration dampener



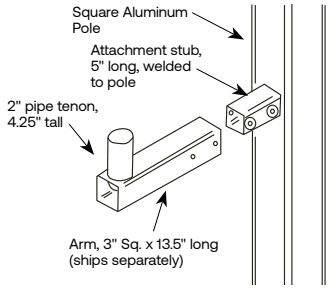
VM2S08 – 8'
VM2S12 – 12'
VM2S16 – 16'
VM2S20 – 20'
VM2S24 – 24'

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

GFI
20 Amp GCFI Receptacle & Cover



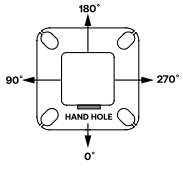
MPB
Mid Pole Bracket

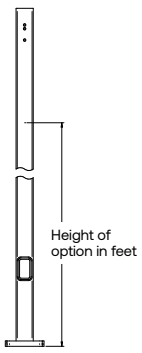


Option Orientation

Follow the logic below when ordering location specific options. For each option, include its orientation (in degrees) and its height (in feet).

Example: Option C05 should be ordered as: SSA-B-20-40-A-TA-DBT-C05-0-15 (.5" coupling on the handhole/arm side of pole, 15' up from the pole base) 1' spacing required between option. Consult factory for other configurations.





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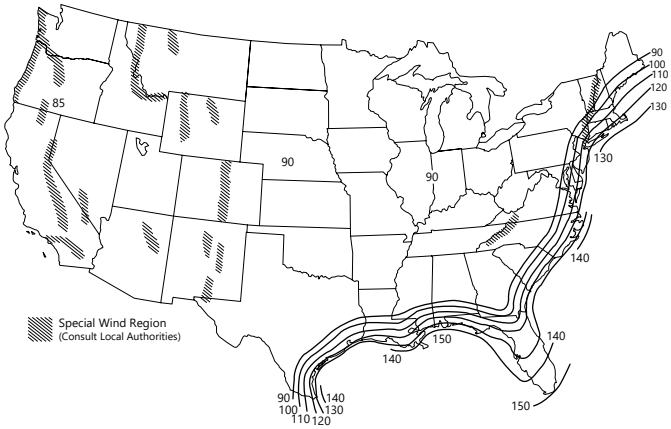
SSA-B Series Poles

SQUARE STRAIGHT ALUMINUM

DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	

WIND MAPS

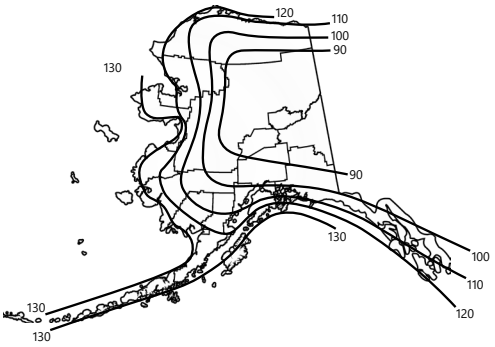
ASCE7-05 WIND MAP



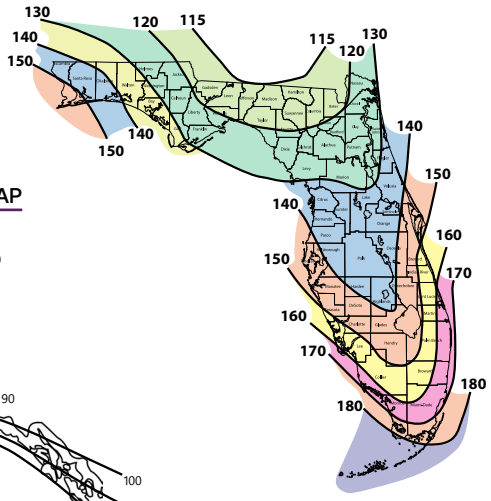
HAWAII – 105 mph
PUERTO RICO – 145 mph

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ALASKA REGION WIND MAP



FLORIDA REGION WIND MAP



Florida region wind map above is based upon 3-second gust winds and the 2017 Florida Building Code.

ASCE 7-05 wind map EPA Load Rating - 3 second gust wind speeds (Use for all locations except Florida)										
Catalog Number	85	90	100	105	110	120	130	140	145	150
SSA-B-08-40-A	17.3	15.2	12.0	10.7	9.6	7.7	6.2	5.0	4.5	4.0
SSA-B-10-40-A	12.6	11.0	8.4	7.4	6.5	4.9	3.7	2.8	2.4	2.0
SSA-B-12-40-A	9.3	7.9	5.8	4.9	4.2	2.9	1.9	1.1	0.8	0.5
SSA-B-14-40-A	6.7	5.6	3.8	3.0	2.4	1.3	NR	NR	NR	NR
SSA-B-16-40-A	4.7	3.7	2.1	1.4	0.9	NR	NR	NR	NR	NR
SSA-B-18-40-A	2.9	2.1	0.6	NR	NR	NR	NR	NR	NR	NR
SSA-B-20-40-A	1.4	0.6	NR	NR	NR	NR	NR	NR	NR	NR
SSA-B-16-40-B	9.2	7.7	5.4	4.5	3.7	2.3	1.2	NR	NR	NR
SSA-B-18-40-B	6.8	5.6	3.6	2.7	2.0	0.8	NR	NR	NR	NR
SSA-B-20-40-B	4.8	3.7	1.9	1.2	0.6	NR	NR	NR	NR	NR
SSA-B-18-50-B	12.9	10.9	7.6	6.3	5.1	3.2	1.7	0.5	NR	NR
SSA-B-20-50-B	9.8	8.1	5.2	4.0	3.0	1.3	NR	NR	NR	NR
SSA-B-25-50-B	4.0	2.7	0.5	NR	NR	NR	NR	NR	NR	NR
SSA-B-16-60-B	25.0	22.3	16.9	14.7	12.7	9.6	7.0	5.0	4.2	3.4
SSA-B-18-60-B	20.7	17.7	13.0	11.0	9.3	6.5	4.3	2.6	1.8	1.1
SSA-B-20-60-B	16.4	13.8	9.6	7.9	6.4	3.9	2.0	NR	NR	NR
SSA-B-25-60-B	8.3	6.3	3.1	1.8	0.7	NR	NR	NR	NR	NR
SSA-B-30-60-B	2.5	0.8	NR	NR	NR	NR	NR	NR	NR	NR
SSA-B-16-60-C	25.0	25	24.5	21.5	19.0	14.9	11.6	9.0	7.9	6.8
SSA-B-18-60-C	25.0	25	19.5	17.1	14.9	11.2	8.3	6.0	5.1	4.2
SSA-B-20-60-C	24.2	20.9	15.4	13.2	11.2	8.0	5.5	3.5	2.6	1.8
SSA-B-25-60-C	14.2	11.6	7.5	5.8	4.3	1.9	NR	NR	NR	NR
SSA-B-30-60-C	7.1	5	1.7	NR	NR	NR	NR	NR	NR	NR

Florida Building Code 2017 EPA Load Rating - 3 second gust wind speeds (Use for Florida only)								
Catalog Number	115	120	130	140	150	160	170	180
SSA-B-08-40-A	14.8	13.4	11.0	9.1	7.6	6.3	5.3	4.4
SSA-B-10-40-A	10.9	9.8	7.9	6.3	5.1	4.1	3.2	2.5
SSA-B-12-40-A	7.9	7.0	5.4	4.1	3.0	2.2	1.5	0.9
SSA-B-14-40-A	5.6	4.8	3.4	2.3	1.4	0.6	NR	NR
SSA-B-16-40-A	3.6	2.9	1.7	0.7	NR	NR	NR	NR
SSA-B-18-40-A	1.8	1.2	NR	NR	NR	NR	NR	NR
SSA-B-20-40-A	NR	NR	NR	NR	NR	NR	NR	NR
SSA-B-16-40-B	7.7	6.7	4.9	3.5	2.4	1.5	0.7	NR
SSA-B-18-40-B	5.4	4.5	3.0	1.8	0.8	NR	NR	NR
SSA-B-20-40-B	3.5	2.7	1.3	NR	NR	NR	NR	NR
SSA-B-18-50-B	10.6	9.2	6.8	4.9	3.3	2.0	1.0	NR
SSA-B-20-50-B	7.8	6.5	4.4	2.7	1.3	NR	NR	NR
SSA-B-25-50-B	2.2	1.2	NR	NR	NR	NR	NR	NR
SSA-B-16-60-B	22.0	19.6	15.5	12.4	9.8	7.7	5.9	4.4
SSA-B-18-60-B	17.2	15.2	11.7	8.9	6.6	4.8	3.3	2.0
SSA-B-20-60-B	13.4	11.5	8.4	6.4	4.0	2.4	1.0	NR
SSA-B-25-60-B	5.7	4.4	2.0	NR	NR	NR	NR	NR
SSA-B-30-60-B	NR	NR	NR	NR	NR	NR	NR	NR
SSA-B-16-60-C	25.0	25.0	22.8	18.6	15.2	12.5	10.1	8.2
SSA-B-18-60-C	25.0	22.5	18.0	14.3	11.3	9.0	7.0	5.3
SSA-B-20-60-C	20.4	18.0	14.0	10.8	8.2	6.0	4.3	2.8
SSA-B-25-60-C	11.2	9.3	6.2	3.8	1.8	NR	NR	NR
SSA-B-30-60-C	4.3	2.9	NR	NR	NR	NR	NR	NR

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SSA-B Series Poles

SQUARE STRAIGHT ALUMINUM

DATE:	LOCATION:
TYPE:	PROJECT:
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NOTES

Wind-speed Website disclaimer:
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- 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 Current Lighting's Pole Vibration Application Guide for environmental risk factors and design considerations.
- 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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DATE: | LOCATION:

TYPE: | PROJECT:

CATALOG #:

VIPER Area/Site

VIPER LUMINAIRE

TYPE "S2A"

MICRO STRIKE | OPTICS STRIKE

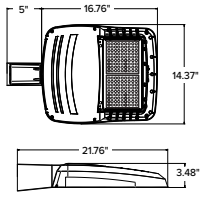


FEATURES

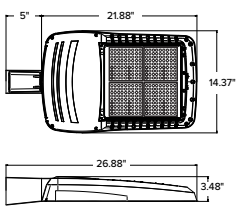
- Low profile LED area/site luminaire with a variety of IES distributions for lighting applications such as auto dealership, retail, commercial, and campus parking lots
- Featuring two different optical technologies, Strike and Micro Strike Optics, which provide the best distribution patterns for retrofit or new construction
- Rated for high vibration applications including bridges and overpasses. All sizes are rated for 1.5G
- Control options including photo control, occupancy sensing, NX Lighting Controls™, LightGRID+ and 7-Pin with networked controls
- New customizable lumen output feature allows for the wattage and lumen output to be customized in the factory to meet whatever specification requirements may entail
- Field interchangeable mounting provides additional flexibility after the fixture has shipped

c UL us IP65 | DLC LISTED | DLC LISTED PREMIUM | DARKSKY APPROVED Reduces light pollution | BAA | TAA

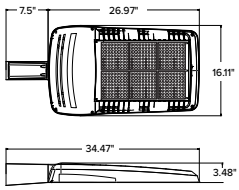
SIZE 1



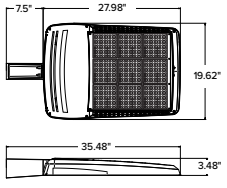
SIZE 2



SIZE 3



SIZE 4



CONTROL TECHNOLOGY

NX CONNECT | NX WIRED | NX WIRELESS | LIGHTGRID+

SERVICE PROGRAMS

STOCK | QS10

SPECIFICATIONS

CONSTRUCTION

- Die-cast housing with hidden vertical heat fins are optimal for heat dissipation while keeping a clean smooth outer surface
- Corrosion resistant, die-cast aluminum housing with 1000 hour powder coat paint finish
- External hardware is corrosion resistant

OPTICS

- Micro Strike Optics (160, 320, 480, or 720 LED counts) maximize uniformity in applications and come standard with mid-power LEDs which evenly illuminate the entire luminous surface area to provide a low glare appearance. Catalog logic found on page 2
- Strike Optics (36, 72, 108, or 162 LED counts) provide best in class distributions and maximum pole spacing in new applications with high powered LEDs. Strike optics are held in place with a polycarbonate bezel to mimic the appearance of the Micro Strike Optics so both solutions can be combined on the same application. Catalog logic found on page 3
- Both optics maximize target zone illumination with minimal losses at the house-side, reducing light trespass issues. Additional backlight control shields and house side shields can be added for further reduction of illumination behind the pole
- One-piece silicone gasket ensures a weatherproof seal
- Zero up-light at 0 degrees of tilt
- Field rotatable optics

INSTALLATION

- Mounting patterns for each arm can be found on page 11
- Optional universal mounting block for ease of installation during retrofit applications. Available as an option (ASQU) or accessory for square and round poles
- All mounting hardware included
- Knuckle arm fitter option available for 2-3/8" OD tenon
- For products with EPA less than 1 mounted to a pole greater that 20ft, a vibration damper is recommended

ELECTRICAL

- Universal 120-277 VAC or 347-480 VAC input voltage, 50/60 Hz
- 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 20kA 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 compromised
- Dual Driver option provides 2 drivers within luminaire but only one set of leads exiting the luminaire, where Dual Power Feed provides two drivers which can be wired independently as two sets of leads are extended from the luminaire. Both options cannot be combined

CONTROLS

- Photo control, occupancy sensor programmable controls, and Zigbee wireless controls available for complete on/off and dimming control
- Please consult brand or sales representative when combining control and electrical options as some combinations may not operate as anticipated depending on your application
- 7-pin ANSI C136.41-2013 photocontrol receptacle option available for twist lock photocontrols or wireless control modules (control accessories sold separately)
- 0-10V Dimming Drivers are standard.
- NX Lighting Controls™ available with in fixture wireless control module, features dimming and occupancy sensor
- LightGRID+ available with in fixture wireless control module, features dimming and occupancy sensor. Also available in 7-pin configuration

	EPA				
	VP1 (Size 1)	VP2 (Size 2)	VP3 (Size 3)	VP4 (Size 4)	Config.
Single Fixture	0.454	0.555	0.655	0.698	
Two at 180	0.908	1.110	1.310	1.396	
Two at 90	0.583	0.711	0.857	0.948	
Three at 90	1.037	1.266	1.512	1.646	
Three at 120	0.943	1.155	1.392	1.680	
Four at 90	1.166	1.422	1.714	1.896	

CERTIFICATIONS

- DLC® (DesignLights Consortium Qualified), with some Premium Qualified configurations. Not all product variations listed in this document are DLC® qualified. Refer to http://www.designlights.org for the most up-to-date list.
- Listed to UL1598 and CSA C22.2#250.0-24 for wet locations and 40˚C ambient temperatures
- 1.5 G rated for ANSI C136.31 high vibration applications
- Fixture is IP65 rated
- Meets IDA recommendations using 3K CCT configuration at 0 degrees of tilt
- This product meets federal procurement law requirements under the Buy American Act (FAR 52.225-9) and Trade Agreements Act (FAR 52.225-11). See Buy America(n) Solutions (link to https://www.currentlighting.com/resources/america-solutions).
- FCC CFR Title 47 Part 15, Class A

WARRANTY

- 5 year warranty

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DATE: | LOCATION:

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CATALOG #:

VIPER Area/Site

VIPER LUMINAIRE

MICROSTRIKE OPTICS – ORDERING GUIDE

Gray Shading = Service Program Limit of 15 luminaires QS10

Example: VP–2–320L-145–3K7–2–R–UNV–A3–BLT

CATALOG #

VP	–		–	2	–	320L-185	–	4K7	–	5QW	–		–	UNV	–
Series		**Optic Platform**		**Size**		**Light Engine**		**CCT/CRI**		**Distribution**		**Optic Rotation**		**Voltage**	

Series

VP	Viper Area

Optic Platform

BLANK	Micro Strike

Size

1	Size 1
2	Size 2
3	Size 3
4	Size 4

Light Engine

160L-35 [6]	35W - 5,500 Lumens
160L-50 [6]	50W - 7,500 Lumens
160L-75	75W - 10,000 Lumens
160L-100	100W - 12,500 Lumens
160L-115	115W - 15,000 Lumens
160L-135	135W - 18,000 Lumens
160L-160	160W - 21,000 Lumens
320L-145	145W - 21,000 Lumens
320L-170	170W - 24,000 Lumens
320L-185	185W - 27,000 Lumens
320L-210	210W - 30,000 Lumens
320L-235	235W - 33,000 Lumens
320L-255	255W - 36,000 Lumens
320L-315 [6]	315W - 40,000 Lumens
480L-285	285W - 40,000 Lumens
480L-320	320W - 44,000 Lumens
480L-340	340W - 48,000 Lumens
480L-390	390W - 52,000 Lumens
480L-425	425W - 55,000 Lumens
480L-470	470W - 60,000 Lumens
720L-435	435W - 60,000 Lumens
720L-475	475W - 65,000 Lumens
720L-515	515W - 70,000 Lumens
720L-565 [6]	565W - 75,000 Lumens
720L-600 [6]	600W - 80,000 Lumens
CLO	Custom Lumen Output [1]

CCT/CRI

AP	AP-Amber Phosphor Converted
27K8	2700K, 80 CRI
3K7	3000K, 70 CRI
3K8	3000K, 80 CRI
35K8	3500K, 80 CRI
3K9	3000K, 90 CRI
4K7	4000K, 70 CRI
4K8	4000K, 80 CRI
4K9	4000K, 90 CRI
5K7	5000K, 70 CRI
5K8	5000K, 80 CRI
BLUE	BLUE 450-455 nm

Distribution

2	Type 2
3	Type 3
4F	Type 4 Forward
4W	Type 4 Wide
5QW	Type 5 Square Wide

Optic Rotation

BLANK	**No Rotation**
L	Optic rotation left
R	Optic rotation right

Voltage

UNV	120-277V
120	120V
208	208V
240	240V
277	277V
347	347V
480	480V

A	–	BLT	–		–
Mounting		**Color**		**Options**	

Mounting

A	Arm mount for square pole (B3 Drill Pattern) (Does not include round pole adapter)
A_	Arm mount for round pole [2]
ASQU	Universal arm mount for square pole. Can be used with B3 or S2 Drill Pattern
A_U	Universal arm mount for round pole [2]
AAU	Adjustable arm for pole mounting (universal drill pattern)
AA_U	Adjustable arm mount for round pole [2]
ADU	Decorative upswept Arm (universal drill pattern)
AD_U	Decorative upswept arm mount for round pole [2]
MAF	Mast arm fitter for 2-3/8" OD horizontal arm
K	Knuckle
T	Trunnion
WB	Wall Bracket, horizontal tenon with MAF
WM	Wall mount bracket with decorative upswept arm
WA	Wall mount bracket with adjustable arm

Color

BLT	Black Matte Textured
BLS	Black Gloss Smooth
DBT	Dark Bronze Matte Textured
DBS	Dark Bronze Gloss Smooth
GTT	Graphite Matte Textured
LGS	Light Grey Gloss Smooth
LGT	Light Grey Gloss Textured
PSS	Platinum Silver Smooth
WHT	White Matte Textured
WHS	White Gloss Smooth
VGT	Verde Green Textured

Color Option

CC	Custom Color

Options

F	Fusing
2PF	Dual Power Feed
2DR	Dual Driver
TE	Tooless Entry
BC	Backlight Control [8]
TB	Terminal Block
LS	Lumen Switch

Network Control Options

NXWS-16F	NX Networked Wireless Enabled Integral NXSMP2-LMO PIR Occupancy Sensor with Automatic Dimming Photocell and Bluetooth Programming [1,3,4]
NXWS-40F	NX Networked Wireless Enabled Integral NXSMP2-HMO PIR Occupancy Sensor with Automatic Dimming Photocell and Bluetooth Programming [1,3,4]
NXW	NX Networked Wireless Radio Module NXRM2 and Bluetooth Programming, without Sensor [3,4]
WIR	LightGRID+ In-Fixture Module [3,4]
WIRSC-14F	LightGRID+ Module and Occupancy Sensor 14ft Mounting height [3,4]
WIRSC-40F	LightGRID+ Module and Occupancy Sensor 40ft Mounting height [3,4]

Stand Alone Sensors

BTS-14F	Bluetooth® Programmable, BTSMP-LMO PIR Occupancy Sensor with Automatic Dimming Photocell and 360° Lens
BTS-40F	Bluetooth® Programmable, BTSMP-HMO PIR Occupancy Sensor with Automatic Dimming Photocell and 360° Lens
BTSO-12F	Bluetooth® Programmable, BTSMP-OMNI-O PIR Occupancy Sensor with Automatic Dimming Photocell and 360° Lens
7PR	7-Pin Receptacle [4]
7PR-SC	7-Pin Receptacle with shorting cap [4]
7PR-TL	7-Pin PCR with NEMA photocontrol [4]
3PR	3-Pin Receptacle [4]
3PR-SC	3-Pin receptacle with shorting cap [4]
3PR-TL	3-Pin PCR with NEMA photocontrol [4]

Programmed Controls

SCP-_F	Sensor Control Programmable, 8F or 40F [9]
ADD	AutoDim Timer Based Dimming [10]
ADT	AutoDim Time of Day Dimming [10]

1 – Items with a grey background can be done as a custom order. Contact brand representative for more information
2 – Replace "_" with "3" for 3.5"-4.13" OD pole, "4" for 4.18"-5.25" OD pole, "5" for 5.5"-6.5" OD pole
3 – Networked Controls cannot be combined with other control options
4 – Not available with 2PF option
5 – Not available with Dual Driver option
6 – Some voltage restrictions may apply when combined with controls
7 – Not available with 480V
8 – BC not available on 4F and type 5 distributions
9 – At least one SCPREMOTE required to program SCP motion sensor. Must select 8ft or 40ft.
10 - Please refer to page 8 for AutoDim ordering guide

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DATE: LOCATION:

TYPE: PROJECT:

CATALOG #:

VIPER Area/Site

VIPER LUMINAIRE

STRIKE OPTIC – ORDERING GUIDE

Example: VP–ST–1–36L-39–3K7–2–UNV–A–BLT

CATALOG #

VP –

Series		Optic Platform		Size		Light Engine		CCT/CRI		Distribution		Optic Rotation		Voltage	
VP	Viper Area	ST	Strike Optics	1	Size 1	36L-39 [8]	39W - 5,500 Lumens	27K8	2700K, 80 CRI	FR	Auto Front Row	BLANK	No Rotation	UNV	120-277V
						36L-55 [8]	55W - 7,500 Lumens	3K7	3000K, 70 CRI	2	Type 2	L	Optic rotation left	120	120V
						36L-85	85W - 10,000 Lumens	3K8	3000K, 80 CRI	3	Type 3	R	Optic rotation right	208	208V
						36L-105	105W - 12,500 Lumens	3K9	3000K, 90 CRI	4F	Type 4 Forward			240	240V
						36L-120	120W - 15,000 Lumens	35K8	3500K, 80 CRI	4W	Type 4 Wide			277	277V
				2	Size 2	72L-115	115W - 15,000 Lumens	4K7	4000K, 70 CRI	5QN	Type 5 Square Narrow			347	347V
						72L-145	145W - 18,000 Lumens	4K8	4000K, 80 CRI	5QW	Type 5 Square Wide			480	480V
						72L-180	180W - 21,000 Lumens	4K9	4000K, 90 CRI	5QM	Type 5 Square Medium				
						72L-210	210W - 24,000 Lumens	5K7	5000K, 70 CRI	5W	Type 5 Wide (Round)				
						72L-240	240W - 27,000 Lumens	5K8	5000K, 80 CRI	5RW	Type 5 Rectangular				
				3	Size 3	108L-215 [8]	215W - 27,000 Lumens			C	Corner Optic				
						108L-250	250W - 30,000 Lumens			TC	Tennis Court Optic				
						108L-280	280W - 33,000 Lumens								
						108L-325	325W - 36,000 Lumens								
						108L-365	365W - 40,000 Lumens								
				4	Size 4	162L-320	320W - 40,000 Lumens								
						162L-365 [10]	365W - 44,000 Lumens								
						162L-405	405W - 48,000 Lumens								
						162L-445	445W - 52,000 Lumens								
						162L-485	485W - 55,000 Lumens								
						162L-545 [8]	545W - 60,000 Lumens								
						CLO	Custom Lumen Output [1]								

Mounting		Color		Options		Network Control Options	
A	Arm mount for square pole (B3 Drill Pattern) (Does not include round pole adapter)	BLT	Black Matte Textured	F	Fusing	NXWS-16F	NX Networked Wireless Enabled Integral NXSMP2-LMO PIR Occupancy Sensor with Automatic Dimming Photocell and Bluetooth Programming [1,4,5]
A_	Arm mount for round pole [3]	BLS	Black Gloss Smooth	E	Battery Backup [1,2,7,8,9]	NXWF-40F	NX Networked Wireless Enabled Integral NXSMP2-HMO PIR Occupancy Sensor with Automatic Dimming Photocell and Bluetooth Programming [1,4,5]
ASQU	Universal arm mount for square pole	DBT	Dark Bronze Matte Textured	2PF	Dual Power Feed	NXW	NX Networked Wireless Radio Module NXRM2 and Bluetooth Programming, without Sensor [4,5]
A_U	Universal arm mount for round pole [3]	DBS	Dark Bronze Gloss Smooth	2DR	Dual Driver	WIR	LightGRID+ In-Fixture Module [4,5]
AAU	Adjustable arm for pole mounting (universal drill pattern)	GTT	Graphite Matte Textured	TE	Tooless Entry	WIRSC-14F	LightGRID+ Module and Occupancy Sensor 14ft Mounting height [4,5]
AA_U	Adjustable arm mount for round pole [3]	LGS	Light Grey Gloss Smooth	BC	Backlight Control	WIRSC-40F	LightGRID+ Module and Occupancy Sensor 40ft Mounting height [4,5]
ADU	Decorative upswept Arm (universal drill pattern)	LGT	Light Grey Gloss Textured	TB	Terminal Block	**Stand Alone Sensors**	
AD_U	Decorative upswept arm mount for round pole [3]	PSS	Platinum Silver Smooth	LS	Lumen Switch	BTS-14F	Bluetooth® Programmable, BTSMP-LMO PIR Occupancy Sensor with Automatic Dimming Photocell and 360° Lens
MAF	Mast arm fitter for 2-3/8" OD horizontal arm	WHT	White Matte Textured			BTS-40F	Bluetooth® Programmable, BTSMP-HMO PIR Occupancy Sensor with Automatic Dimming® Photocell and 360° Lens
K	Knuckle	WHS	White Gloss Smooth			BTSO-12F	Bluetooth® Programmable, BTSMP-OMNI-O PIR Occupancy Sensor with Automatic Dimming Photocell and 360° Lens
T	Trunnion	VGT	Verde Green Textured			7PR	7-Pin Receptacle [4]
WB	Wall Bracket, horizontal tenon with MAF	**Color Option**				7PR-SC	7-Pin Receptacle with shorting cap [4]
		CC	Custom Color			7PR-TL	7-Pin PCR with NEMA photocontrol [4]
						3PR	3-Pin Receptacle [4]
						3PR-SC	3-Pin receptacle with shorting cap [4]
						3PR-TL	3-Pin PCR with NEMA photocontrol [4]
						Programmed Controls	
						SCP-_F	Sensor Control Programmable, 8F or 40F [11]
						ADD	AutoDim Timer Based Dimming [12]
						ADT	AutoDim Time of Day Dimming [12]

1 – Items with a grey background can be done as a custom order. Contact brand representative for more information
2 – Battery temperature rating -20C to 55C
3 – Replace "_" with "3" for 3.5"-4.13" OD pole, "4" for 4.18"-5.25" OD pole, "5" for 5.5"-6.5" OD pole
4 – Networked Controls cannot be combined with other control options
5 – Not available with 2PF option
6 – Not available with 480V
7 – Not available with 347 or 480V
8 – Not available with Dual Driver option
9 – Only available in Size 1 housing, up to 105 Watts
10 – Some voltage restrictions may apply when combined with controls
11 – At least one SCPREMOTE required to program SCP motion sensor. Must select 8ft or 40ft.
12 - Please refer to page 8 for AutoDim ordering guide

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VIPER Area/Site

VIPER LUMINAIRE

DATE: LOCATION:

TYPE: PROJECT:

CATALOG #:

ORDERING GUIDE (CONT'D)

CATALOG #

Accessory Type		Size		Option		Color	
SHD	Shield	**1**	Size 1	**HSS-90-B**	House Side Shield 90° Back	**BLS**	Black Gloss Smooth
		2	Size 2	**HSS-90-F**	House Side Shield 90° Front	**BLT**	Black Matte Textured
		3	Size 3	**HSS-90-S**	House Side Shield 90° Side	**DBS**	Dark Bronze Gloss Smooth
		4	Size 4	**HSS-270-BSS**	House Side Shield 270° Back/Side/Side	**DBT**	Dark Bronze Matte Textured
				HSS-270-FSS	House Side Shield 270° Front/Side/Side	**GTT**	Graphite Matte Textured
				HSS-270-FSB	House Side Shield 270° Front/Side/Back	**LGS**	Light Gray Gloss Smooth
				HSS-360	House Side Shield 360°	**PSS**	Platinum Silver Smooth
				BC	Back Light Control	**WHS**	White Gloss Smooth
MTG	Mounting			**A**	Arm mount for square pole (B3 Drill Pattern) (Does not include round pole adapter)	**WHT**	White Matte Textured
				ASQU	Universal Arm Mount for square pole	**VGT**	Green Landscape Decorative
				AAU	Adjustable Arm for pole mounting	**LEG**	Legacy Colors
				ADU	Decorative upswept Arm	**Color Option**	
				RPA	Round Pole Adapter	**CC**	Custom Color
				MAF	Mast Arm Fitter for 2-3/8" OD horizontal arm		
				K	Knuckle		
				T	Trunnion		
				WB	Wall Bracket (compatible with universal arm mounts)		

Accessory Type		Option	
MSC	Miscellaneous	**BIRD SPK**	Bird Spike

Current Control Solutions — Accessories (Sold Separately)

NX Lighting Controls

☐ **NXOFM-1R1D-UNV** On-fixture Module (7-pin), On / Off / Dim, Daylight Sensor with NX Radio and Bluetooth® Radio, 120–480VAC

LightGRID+ Lighting Control

☐ **WIR-RME-L** On-fixture Module (7-pin or 5-pin), On / Off / Dim, Daylight Sensor with LightGRID+ Radio, 110–480VAC

☐ **SCP-REMOTE** Remote Control for SCP/_F option. Order at least one per project to program and control the occupancy sensor

For additional information related to these accessories please visit currentlighting.com/beacon. Options provided for use with integrated sensor, please view specification sheet ordering information table for details.

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DATE: LOCATION:

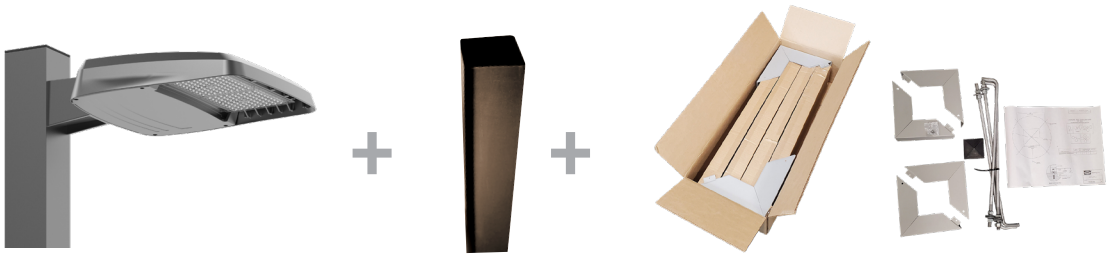
TYPE: PROJECT:

CATALOG #:

VIPER Area/Site

VIPER LUMINAIRE

VIPER POLE EXPRESS COMBO – ORDERING GUIDE



Catalog Number	Pole	Single or Double Head	Fixture	Lumens*	Wattage	Distribution	CCT/CRI	Mounting	Finish
VP-1-160-4K-3-LS-S20	**20' Square Straight Steel**	Single	**VP-1-160-4K-3-LS**	19584	158W	Type 3	4000K/70CRI	Universal Arm	Dark Bronze Textured
VP-1-160-4K-3-LS-S20-2X	**20' Square Straight Steel**	Double	**VP-1-160-4K-3-LS**	19584	158W	Type 3	4000K/70CRI	Universal Arm	Dark Bronze Textured
VP-1-160-4K-4F-LS-S20	**20' Square Straight Steel**	Single	**VP-1-160-4K-4F-LS**	19426	158W	Type 4F	4000K/70CRI	Universal Arm	Dark Bronze Textured
VP-1-160-4K-4F-LS-S20-2X	**20' Square Straight Steel**	Double	**VP-1-160-4K-4F-LS**	19426	158W	Type 4F	4000K/70CRI	Universal Arm	Dark Bronze Textured
VP-1-160-4K-3-LS-S25	**25' Square Straight Steel**	Single	**VP-1-160-4K-3-LS**	19584	158W	Type 3	4000K/70CRI	Universal Arm	Dark Bronze Textured
VP-1-160-4K-3-LS-S25-2X	**25' Square Straight Steel**	Double	**VP-1-160-4K-3-LS**	19584	158W	Type 3	4000K/70CRI	Universal Arm	Dark Bronze Textured
VP-1-160-4K-4F-LS-S25	**25' Square Straight Steel**	Single	**VP-1-160-4K-4F-LS**	19426	158W	Type 4F	4000K/70CRI	Universal Arm	Dark Bronze Textured
VP-1-160-4K-4F-LS-S25-2X	**25' Square Straight Steel**	Double	**VP-1-160-4K-4F-LS**	19426	158W	Type 4F	4000K/70CRI	Universal Arm	Dark Bronze Textured
VP-1-160-5K-3-LS-S20	**20' Square Straight Steel**	Single	**VP-1-160-5K-3-LS**	19499	158W	Type 3	5000K/70CRI	Universal Arm	Dark Bronze Textured
VP-1-160-5K-3-LS-S20-2X	**20' Square Straight Steel**	Double	**VP-1-160-5K-3-LS**	19499	158W	Type 3	5000K/70CRI	Universal Arm	Dark Bronze Textured
VP-1-160-5K-4F-LS-S20	**20' Square Straight Steel**	Single	**VP-1-160-5K-4F-LS**	19186	158W	Type 4F	5000K/70CRI	Universal Arm	Dark Bronze Textured
VP-1-160-5K-4F-LS-S20-2X	**20' Square Straight Steel**	Double	**VP-1-160-5K-4F-LS**	19186	158W	Type 4F	5000K/70CRI	Universal Arm	Dark Bronze Textured
VP-1-160-5K-3-LS-S25	**25' Square Straight Steel**	Single	**VP-1-160-5K-3-LS**	19499	158W	Type 3	5000K/70CRI	Universal Arm	Dark Bronze Textured
VP-1-160-5K-3-LS-S25-2X	**25' Square Straight Steel**	Double	**VP-1-160-5K-3-LS**	19499	158W	Type 3	5000K/70CRI	Universal Arm	Dark Bronze Textured
VP-1-160-5K-4F-LS-S25	**25' Square Straight Steel**	Single	**VP-1-160-5K-4F-LS**	19186	158W	Type 4F	5000K/70CRI	Universal Arm	Dark Bronze Textured
VP-1-160-5K-4F-LS-S25-2X	**25' Square Straight Steel**	Double	**VP-1-160-5K-4F-LS**	19186	158W	Type 4F	5000K/70CRI	Universal Arm	Dark Bronze Textured

VIPER POLE EXPRESS COMBO – STOCK LUMINAIRE SKUS

Catalog Number	Lumens	LPW	Distribution	Wattage	CCT/CRI	Voltage	Mounting	Finish
VP-1-160-4K-3-LS	19584	123.9	3	158W	4000K/70CRI	120-277V	Universal Arm with RPA (A3U)	Dark Bronze Textured
VP-1-160-4K-4F-LS	19426	122.9	4F	158W	4000K/70CRI	120-277V	Universal Arm with RPA (A3U)	Dark Bronze Textured
VP-1-160-5K-3-LS	19499	123.4	3	158W	5000K/70CRI	120-277V	Universal Arm with RPA (A3U)	Dark Bronze Textured
VP-1-160-5K-4F-LS	19186	121.4	4F	158W	5000K/70CRI	120-277V	Universal Arm with RPA (A3U)	Dark Bronze Textured

VIPER POLE EXPRESS COMBO – ACCESSORIES

Catalog Number	Description
VM14DB	Vibration Dampener, mounts to top of pole for reduced vibration



VM14DB

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VIPER Area/Site

VIPER LUMINAIRE

OUTDOOR LIGHTING CONTROLS OPTIONS

CONTROLS FUNCTIONALITY

LIGHTGRID+ NX LIGHTING CONTROLS MOBILE APP

	Control Option Ordering Logic & Description		Control Option Functionality									Control Option Components	
			Networkable	Grouping	Scheduling	Occupancy/ Motion	Daylight Harvesting	0-10V Dimming	On/Off Control	Bluetooth App Programming	Sensor Height		
NX Wireless	NXOFM1R1D-UNV	NX 7-Pin Twist-Lock® with NX Networked Wireless Radio, Integral Automatic Dimming Photocell, Integral Single Pole Relay with Dimming, and Bluetooth Programming	✓	✓	✓	Paired with external control	✓	✓	✓	✓	–		NXOFM-1R1D-UV
NX Wireless	NXW	NX Networked Wireless Radio Module NXRM2 and Bluetooth Programming, without Sensor	✓	✓	✓	–	–	✓	✓	✓	–		NXRM2-H
NX Wireless	NXWS12F	NX Networked Wireless Enabled Integral NXSMP2-OMNI-O PIR Occupancy Sensor with Automatic Dimming Photocell and Bluetooth Programming	✓	✓	✓	✓	✓	✓	✓	✓	12ft		NXSMP2-OMNI-O
NX Wireless	NXWS16F	NX Networked Wireless Enabled Integral NXSMP2-LMO PIR Occupancy Sensor with Automatic Dimming Photocell and Bluetooth Programming	✓	✓	✓	✓	✓	✓	✓	✓	16ft		NXSMP2-LMO
NX Wireless	NXWS40F	NX Networked Wireless Enabled Integral NXSMP2-HMO PIR Occupancy Sensor with Automatic Dimming Photocell and Bluetooth Programming	✓	✓	✓	✓	✓	✓	✓	✓	40ft		NXSMP2-HMO
LightGRID+	WIR	LightGRID+ In-Fixture Module	✓	–	✓	–	–	✓	✓	Gateway	–		WIR
LightGRID+	WIR-RME-L	LightGRID+ On Fixture Module	✓	–	✓	–	–	✓	✓	Gateway	–		WIR-RME-L
LightGRID+	WIRSC	LightGRID+ Module and Occupancy Sensor	✓	✓	✓	✓	✓	✓	✓	Gateway	14ft - 40ft		BTMSP
Independent	BTSO-12F	Bluetooth® Programmable, BTSMP-OMNI-O PIR Occupancy Sensor with Automatic Dimming Photocell and 360° Lens	–	–	–	✓	✓	✓	✓	✓	12ft		BTSMP-OMNI-O
Independent	BTS-14F	Bluetooth® Programmable, BTSMP-LMO PIR Occupancy Sensor with Automatic Dimming Photocell and 360° Lens	–	–	–	✓	✓	✓	✓	✓	14ft		BTSMP-LMO
Independent	BTS-40F	Bluetooth® Programmable, BTSMP-HMO PIR Occupancy Sensor with Automatic Dimming Photocell and 360° Lens	–	–	–	✓	✓	✓	✓	✓	40ft		BTSMP-HMO

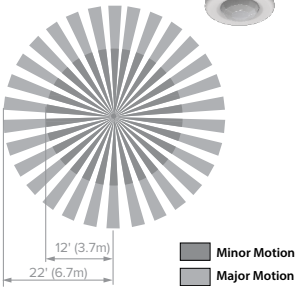
DEFAULT SETTINGS

NX Wireless	
Occupancy Sensor	Enabled
Occupancy Sensor Sensitivity	7
Occupancy Sensor Timeout	15 Minutes
Occupied Dim Level	100%
Unoccupied Dim Level	0%
Daylight Sensor	Disabled
Bluetooth	Enabled
2.4GHz Wireless Mesh	On
"Passcode Factory Passcode: HubbN3T!"	Enabled

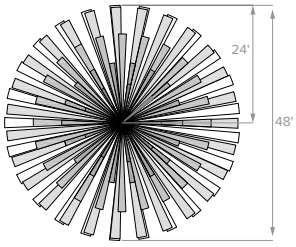
Stand Alone	
Occupancy Sensor	Enabled
Occupancy Sensor Sensitivity	7
Occupancy Sensor Timeout	8 Minutes
Occupied Dim Level	100%
Unoccupied Dim Level	50%
Daylight Sensor	Disabled

NX WIRELESS COVERAGE PATTERNS

NXSMP2-OMNI



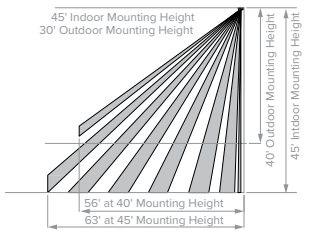
NXSMP2-LMO





Sensor Lens Coverage and Detection Patterns When Mounted at 8ft with Low Mount Lens

NXSMP2-HMO



Sensor Lens Coverage and Detection Patterns When Mounted at 40ft and 45ft with Standard Lens

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VIPER LUMINAIRE

DATE: | LOCATION:

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CATALOG #:

NX LIGHTING CONTROLS FREE APP



The NX Lighting Controls App is free to use mobile application for programming both NX Lighting Controls System or Standalone Bluetooth Sensors. The mobile app allows you to configure devices, discover and setup wireless enable luminiares and program NX system settings.

Apple App: https://apps.apple.com/us/app/nx-lighting-controls/id962112904

Google Play: https://play.google.com/store/apps/details?id=io.cordova.NXBTR&hl=en_US&gl=US

Apple App

Google Play

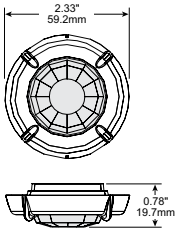
CONTROLS TECH SUPPORT 800-888-8006 (7:00 AM - 7:00 PM)

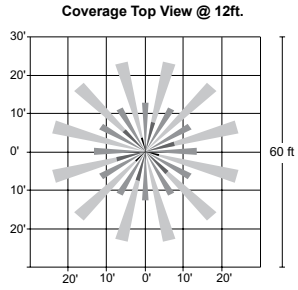
OUTDOOR LIGHTING CONTROLS OPTIONS

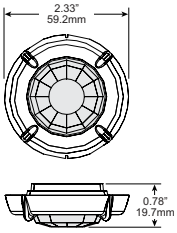
CONTROLS FUNCTIONALITY

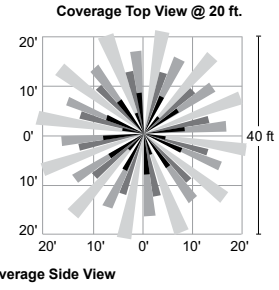
	Control Option Ordering Logic & Description		Control Option Functionality									Control Option Components	
			Networkable	Grouping	Scheduling	Occupancy/ Motion	Daylight Harvesting	0-10V Dimming	On/Off Control	Bluetooth App Programming	Sensor Height		
Independent	SCP_F	Sensor Control Programmable, 8F or 40F	–	–	–	✓	✓	✓	✓	–	8ft or 40ft		SCP_F
	ADD	AutoDIM Timer Based Dimming	–	–	✓	–	–	–	✓	–	–		ADD
	ADT	AutoDIM Time of Day Dimming	–	–	✓	–	–	–	✓	–	–		ADT
	7PR	7-Pin Receptacle	–	–	Paired with external control	–	Paired with external control	–	Paired with external control	–	–		7PR
	7PR-SC	7-Pin Receptacle with shorting cap	–	–	–	–	–	–	–	–	–		7PR-SC
	3PR	3-Pin twist lock	–	–	–	–	–	–	Paired with external control	–	–		3PR
	3PR-SC	3-Pin Receptacle with shorting cap	–	–	–	–	–	–	–	–	–		3PR-SC
	3PR-TL	3-Pin with photocontrol	–	–	–	–	✓	–	✓	–	–		3PR-TL

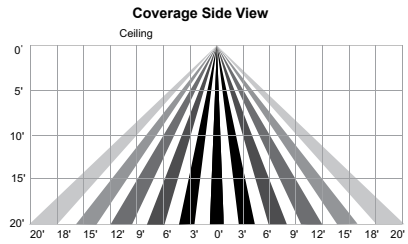
COVERAGE PATTERNS FOR SCP_F

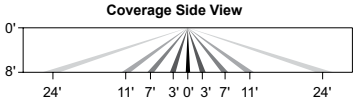


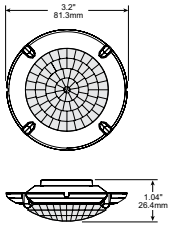


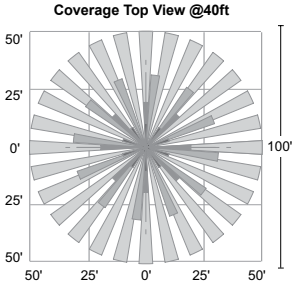


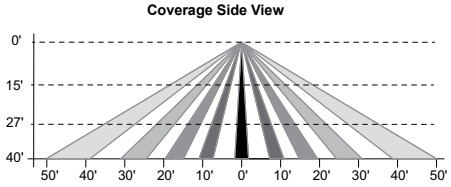












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DATE: LOCATION:

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VIPER Area/Site

VIPER LUMINAIRE

PROGRAMMED CONTROLS

ADD-AutoDim Timer Based Options

- Light delay options from 1-9 hours after the light is turned on to dim the light by 10-100%. To return the luminaire to its original light level there are dim return options from 1-9 hours after the light has been dimmed previously.

EX: ADD-6-5-R6

ADD Control Options	Configurations Choices	Example Choice Picked
Auto-Dim Options	1-9 Hours	6 - Delay 6 hours
Auto-Dim Brightness	10-100% Brightness	5 - Dim to 50% brightness
Auto-Dim Return	Delay 0-9 Hours	R6 - Return to full output after 6 hours

ADT-AutoDim Time of Day Based Option

- Light delay options from 1AM-9PM after the light is turned on to dim the light by 10-100%. To return the luminaire to its original light level there are dim return options from 1AM-9PM after the light has been dimmed previously.

EX: ADT-6-5-R6

ADD Control Options	Configurations Choices	Example Choice Picked
Auto-Dim Options	12-3 AM and 6-11 PM	6 - Dim at 6PM
Auto-Dim Brightness	10-100% Brightness	5 - Dim to 50%
Auto-Dim Return	12-6 AM and 9-11P	R6 - Return to full output at 6AM

ORDERING GUIDE

Auto Dim Code	Timer Base (ADD) Auto-Dim Options		Auto Dim Cod	Time of Day (ADT) Auto-Dim Options
D1	Delay 1 hour		T0	Delay Midnight
D2	Delay 2 hours		T1	Delay 1 AM
D3	Delay 3 hours		T2	Delay 2 AM
D4	Delay 4 hours		T3	Delay 3 AM
D5	Delay 5 hours	OR	T4	Delay 10 PM
D6	Delay 6 hours		T5	Delay 11 PM
D7	Delay 7 hours		T6	Delay 6 PM
D8	Delay 8 hours		T7	Delay 7 PM
D9	Delay 9 hours		T8	Delay 8 PM
D0	Delay 0 hours		T9	Delay 9 PM

Code	Auto-Dim Brightness
0	100% Brightness
1	10% Brightness
2	20% Brightness
3	30% Brightness
4	40% Brightness
5	50% Brightness
6	60% Brightness
7	70% Brightness
8	80% Brightness
9	90% Brightness

Code	Auto-Dim Return Options
R1	Delay 1 hour or 1 AM
R2	Delay 2 hours or 2 AM
R3	Delay 3 hours or 3 AM
R4	Delay 4 hours or 4 AM
R5	Delay 5 hours or 5 AM
R6	Delay 6 hours or 6 AM
R7	Delay 7 hours or 7 AM
R8	Delay 8 hours or 8 AM
R9	Delay 9 hours or 9 AM
R0	Delay 0 hours or 12 AM

Code	Auto-Dim Brightness
0	100% Brightness
1	10% Brightness
2	20% Brightness
3	30% Brightness
4	40% Brightness
5	50% Brightness
6	60% Brightness
7	70% Brightness
8	80% Brightness
9	90% Brightness

DELIVERED LUMENS

For delivered lumens, please see Lumens Data PDF on www.Currentlighting.com

PROJECTED LUMEN MAINTENANCE

Ambient Temp.	0	25,000	*TM-21-11 36,000	50,000	100,000	Calculated L_{70} (Hours)
25°C / 77°F	1.00	0.97	0.96	0.95	0.91	408,000
40°C / 104°F	0.99	0.96	0.95	0.94	0.89	356,000

LUMINAIRE AMBIENT TEMPERATURE FACTOR (LATF)

Ambient Temperature		Lumen Multiplier
0°C	32°F	1.03
10°C	50°F	1.01
20°C	68°F	1.00
25°C	77°F	1.00
30°C	86°F	0.99
40°C	104°F	0.98

Micro Strike Lumen Multiplier			
CCT	70 CRI	80 CRI	90 CRI
2700K	–	0.841	–
3000K	0.977	0.861	0.647
3500K	–	0.900	–
4000K	1	0.926	0.699
5000K	1	0.937	0.791
AP-Amber Phosphor Converted Multiplier			
Amber	0.710		

Strike Lumen Multiplier			
CCT	70 CRI	80 CRI	90 CRI
2700K	0.9	0.81	0.62
3000K	0.933	0.853	0.659
3500K	0.959	0.894	0.711
4000K	1	0.9	0.732
5000K	1	0.9	0.732
Monochromatic Amber Multiplier			
Amber	See Amber Spec Sheet		

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VIPER Area/Site

VIPER LUMINAIRE

ELECTRICAL DATA: MICRO STRIKE

# OF LEDS	160						
NOMINAL WATTAGE	35	50	75	100	115	135	160
SYSTEM POWER (W)	34.9	50.5	72.1	97.2	111.9	132.2	157.8
INPUT VOLTAGE (V)	CURRENT (Amps)						
120	0.29	0.42	0.63	0.83	0.96	1.13	1.33
208	0.17	0.24	0.36	0.48	0.55	0.65	0.77
240	0.15	0.21	0.31	0.42	0.48	0.56	0.67
277	0.13	0.18	0.27	0.36	0.42	0.49	0.58
347	0.10	0.14	0.22	0.29	0.33	0.39	0.46
480	0.07	0.10	0.16	0.21	0.24	0.28	0.33

# OF LEDS	320						
NOMINAL WATTAGE	145	170	185	210	235	255	315
SYSTEM POWER (W)	150	166.8	185.7	216.2	240.9	261.5	312
INPUT VOLTAGE (V)	CURRENT (Amps)						
120	1.21	1.42	1.54	1.75	1.96	2.13	2.63
208	0.70	0.82	0.89	1.01	1.13	1.23	1.51
240	0.60	0.71	0.77	0.88	0.98	1.06	1.31
277	0.52	0.61	0.67	0.76	0.85	0.92	1.14
347	0.42	0.49	0.53	0.61	0.68	0.73	0.91
480	0.30	0.35	0.39	0.44	0.49	0.53	0.66

# OF LEDS	480					
NOMINAL WATTAGE	285	320	340	390	425	470
SYSTEM POWER (W)	286.2	316.7	338.4	392.2	423.2	468
INPUT VOLTAGE (V)	CURRENT (Amps)					
120	2.38	2.67	2.83	3.25	3.54	3.92
208	1.37	1.54	1.63	1.88	2.04	2.26
240	1.19	1.33	1.42	1.63	1.77	1.96
277	1.03	1.16	1.23	1.41	1.53	1.70
347	0.82	0.92	0.98	1.12	1.22	1.35
480	0.59	0.67	0.71	0.81	0.89	0.98

# OF LEDS	720				
NOMINAL WATTAGE	435	475	515	565	600
SYSTEM POWER (W)	429.3	475	519.1	565.2	599.9
INPUT VOLTAGE (V)	CURRENT (Amps)				
120	3.63	3.96	4.29	4.71	5.00
208	2.09	2.28	2.48	2.72	2.88
240	1.81	1.98	2.15	2.35	2.50
277	1.57	1.71	1.86	2.04	2.17
347	1.25	1.37	1.48	1.63	1.73
480	0.91	0.99	1.07	1.18	1.25

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VIPER Area/Site

VIPER LUMINAIRE

ELECTRICAL DATA: STRIKE

# OF LEDS	36				
NOMINAL WATTAGE	39	55	85	105	120
SYSTEM POWER (W)	39.6	56.8	83.6	108.2	120.9
INPUT VOLTAGE (V)	CURRENT (Amps)				
120	0.33	0.46	0.71	0.88	0.96
208	0.19	0.26	0.41	0.50	0.55
240	0.16	0.23	0.35	0.44	0.48
277	0.14	0.20	0.31	0.38	0.42
347	0.11	0.16	0.24	0.30	0.33
480	0.08	0.11	0.18	0.22	0.24

# OF LEDS	72				
NOMINAL WATTAGE	115	145	180	210	240
SYSTEM POWER (W)	113.7	143.2	179.4	210.2	241.7
INPUT VOLTAGE (V)	CURRENT (Amps)				
120	1.00	1.21	1.50	1.75	1.79
208	0.58	0.70	0.87	1.01	1.03
240	0.50	0.60	0.75	0.88	0.90
277	0.43	0.52	0.65	0.76	0.78
347	0.35	0.42	0.52	0.61	0.62
480	0.25	0.30	0.38	0.44	0.45

# OF LEDS	108				
NOMINAL WATTAGE	215	250	280	325	365
SYSTEM POWER (W)	214.8	250.8	278.3	324.7	362.6
INPUT VOLTAGE (V)	CURRENT (Amps)				
120	2.00	2.08	2.33	3.04	2.67
208	1.15	1.20	1.35	1.75	1.54
240	1.00	1.04	1.17	1.52	1.33
277	0.87	0.90	1.01	1.32	1.16
347	0.69	0.72	0.81	1.05	0.92
480	0.50	0.52	0.58	0.76	0.67

# OF LEDS		162				
NOMINAL WATTAGE	320	365	405	445	485	545
SYSTEM POWER (W)	322.1	362.6	403.6	445.1	487.1	543.9
INPUT VOLTAGE (V)		CURRENT (Amps)				
120	2.71	2.67	3.38	3.71	4.04	4.54
208	1.56	1.54	1.95	2.14	2.33	2.62
240	1.35	1.33	1.69	1.85	2.02	2.27
277	1.17	1.16	1.46	1.61	1.75	1.97
347	0.94	0.92	1.17	1.28	1.40	1.57
480	0.68	0.67	0.84	0.93	1.01	1.14

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VIPER Area/Site

VIPER LUMINAIRE

DATE: LOCATION:

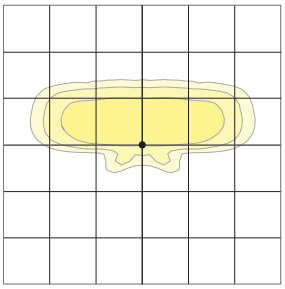
TYPE: PROJECT:

CATALOG #:

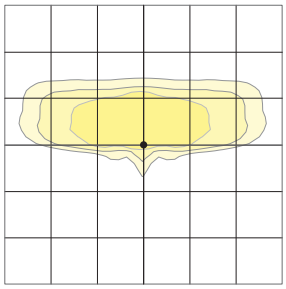
MICRO STRIKE PHOTOMETRY

The following diagrams represent the general distribution options offered for this product. For detailed information on specific product configurations, see website photometric test reports.

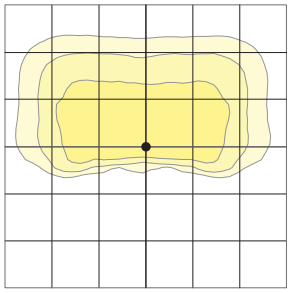
Type 2



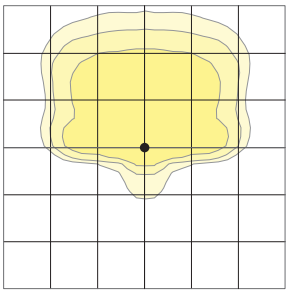
Type 3



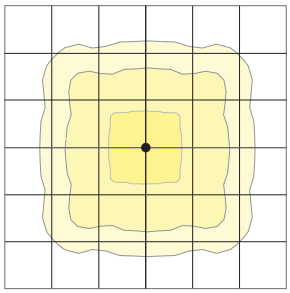
Type 4 Wide



Type 4F



Type 5QW



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VIPER Area/Site

VIPER LUMINAIRE

DATE: LOCATION:

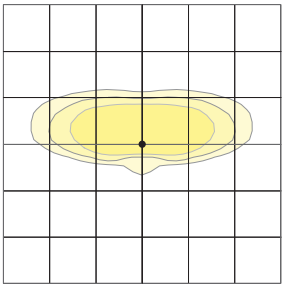
TYPE: PROJECT:

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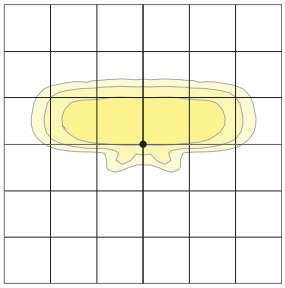
OPTIC STRIKE PHOTOMETRY

The following diagrams represent the general distribution options offered for this product. For detailed information on specific product configurations, see website photometric test reports.

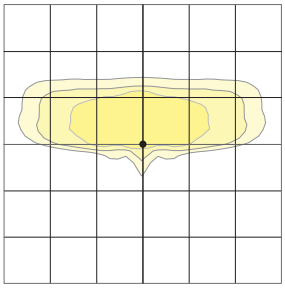
Type FR – Front Row/Auto Optic



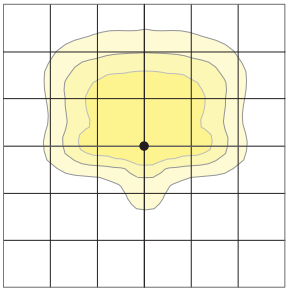
Type 2



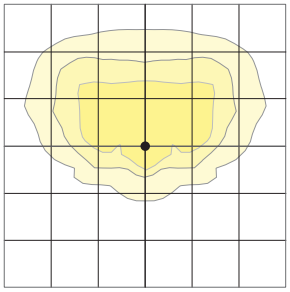
Type 3



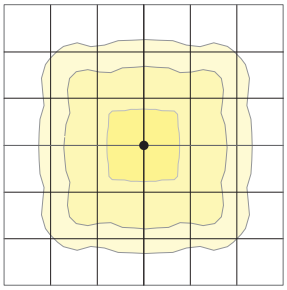
Type 4 Forward



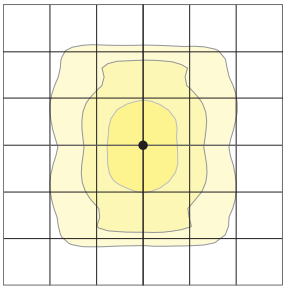
Type 4 Wide



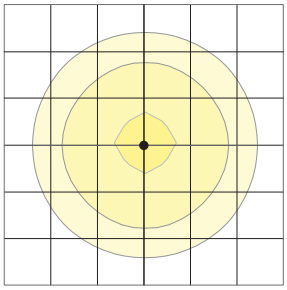
Type 5QM



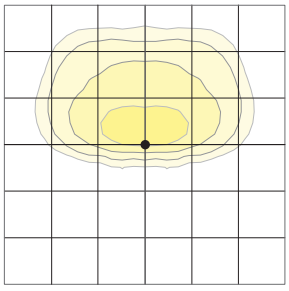
Type 5RW (rectangular)



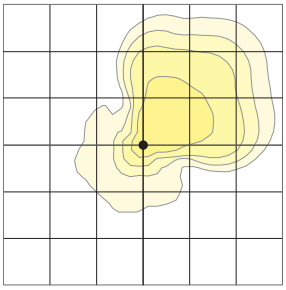
Type 5W (round wide)



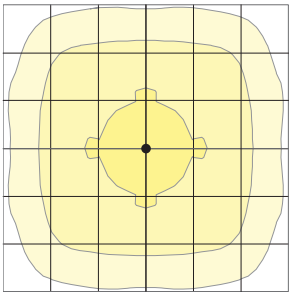
Type TC



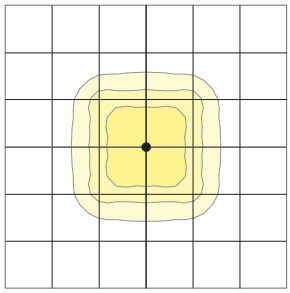
Type Corner



Type 5QW



Type 5QN



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DATE: LOCATION:

TYPE: PROJECT:

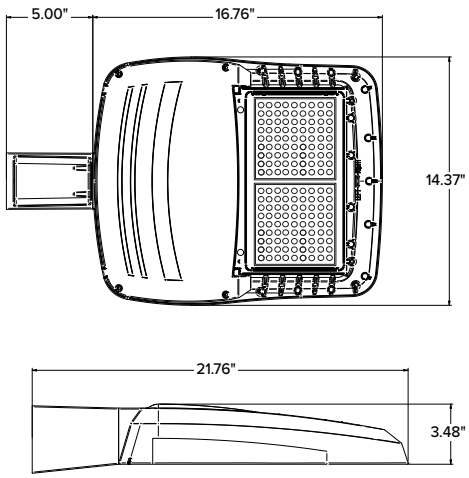
CATALOG #:

VIPER Area/Site

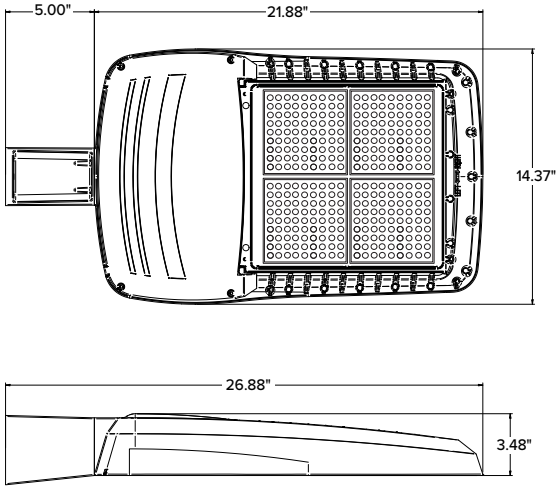
VIPER LUMINAIRE

DIMENSIONS

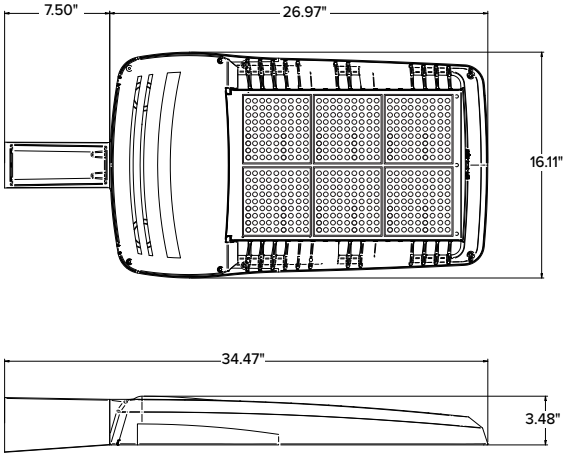
SIZE 1



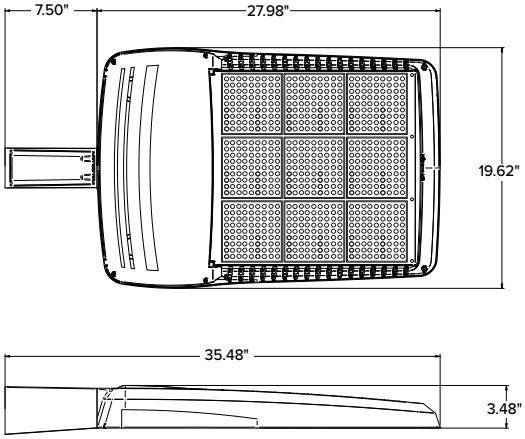
SIZE 2



SIZE 3



SIZE 4



	EPA				
	VP1 (Size 1)	VP2 (Size 2)	VP3 (Size 3)	VP4 (Size 4)	Config.
Single Fixture	0.454	0.555	0.655	0.698	
Two at 180	0.908	1.110	1.310	1.396	
Two at 90	0.583	0.711	0.857	0.948	
Three at 90	1.037	1.266	1.512	1.646	
Three at 120	0.943	1.155	1.392	1.680	
Four at 90	1.166	1.422	1.714	1.896	

	Weight	
	lbs	kgs
VP1 (Size 1)	13.7	6.2
VP2 (Size 2)	16.0	7.26
VP3 (Size 3)	25.9	11.7
VP4 (Size 4)	30.8	13.9

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DATE: LOCATION:

TYPE: PROJECT:

CATALOG #:

VIPER Area/Site

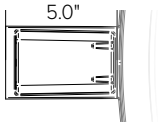
VIPER LUMINAIRE

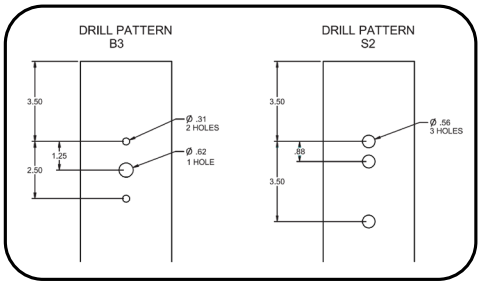
MOUNTING

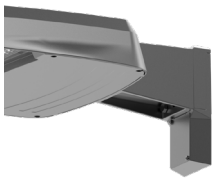


A–STRAIGHT ARM MOUNT

Fixture ships with integral arm for ease of installation. Compatible with Current Outdoor B3 drill pattern for ease of installation on square poles. For round poles add applicable suffix (2/3/4/5)

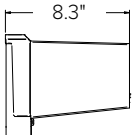


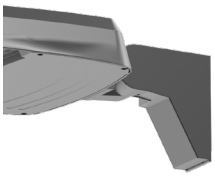




ASQU–UNIVERSAL ARM MOUNT

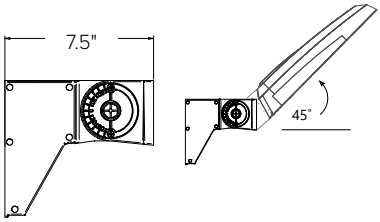
Universal mounting block for ease of installation. Compatible with drill patterns from 1.5" to 5.25" and Current drill pattern S2. For round poles add applicable suffix (2/3/4/5)

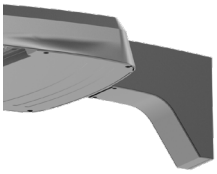




AAU–ADJUSTABLE ARM FOR POLE MOUNTING

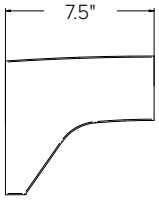
Rotatable arm mounts directly to pole. Compatible with drill patterns from 1.5" to 5.25" and Current drill pattern S2 and B3. For round poles add applicable suffix (2/3/4/5). Rotatable in 5˚ aiming angle increments. Micro Strike configurations have a 45° aiming limitation. Strike configurations have a 30° aiming limitation.

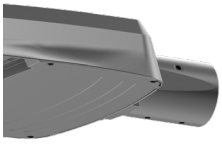




ADU–DECORATIVE UPSWEPT ARM

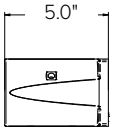
Upswept Arm compatible with drill patterns from 1.5" to 5.25" and Current drill pattern S2. For round poles add applicable suffix (2/3/4/5).

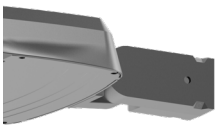




MAF–MAST ARM FITTER

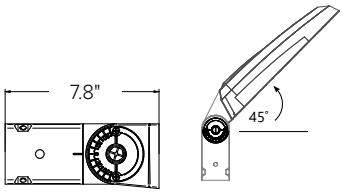
Fits 2-3/8" OD horizontal tenons.

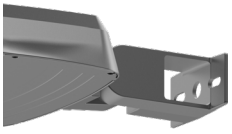




K–KNUCKLE

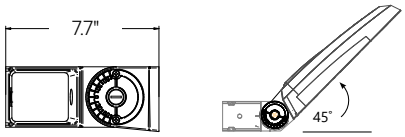
Rotatable in 5-degree aiming angle increments, fits 2-3/8" tenons or pipes. Micro Strike configurations have a 45° aiming limitation. Strike configurations have a 30° aiming limitation.

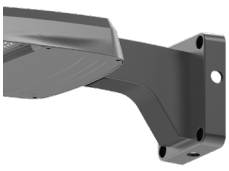




T–TRUNNION

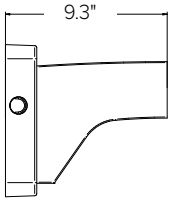
Trunnion for surface and crossarm mounting using (1) 3/4" or (2) 1/2" size through bolts. Micro Strike configurations have a 45° aiming limitation. Strike configurations have a 30° aiming limitation.





WM–WALL MOUNT

Compatible with universal arm mount, adjustable arm mount, and decorative arm mount. The WA option uses the same wall bracket but replaces the decorative arm with an adjustable arm.



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VIPER Area/Site

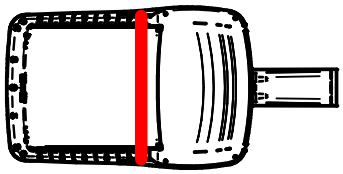
VIPER LUMINAIRE

ADDITIONAL INFORMATION (CONTINUED)

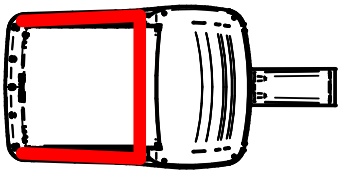
HOUSE SIDE SHIELD FIELD INSTALL ACCESSORIES

HSS has a depth of 5" for all Viper sizes
Not to be used with Occupancy Sensors as the shield may block the light to the sensor.

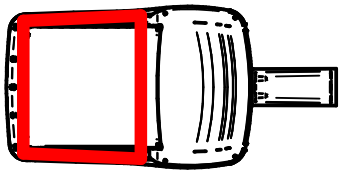
VPR2x HSS-90-B-xx



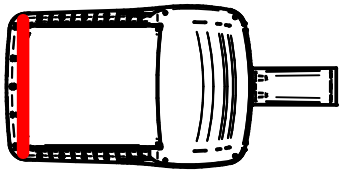
VPR2x HSS-270-BSS-xx



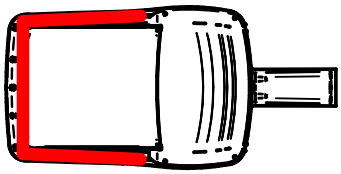
VPR2x HSS-360-xx



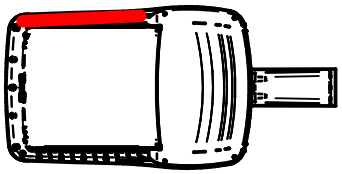
VPR2x HSS-90-F-xx



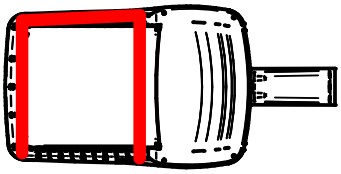
VPR2x HSS-270-FSS-xx



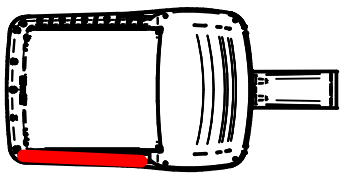
VPR2x HSS-90-S-xx



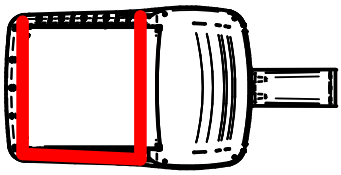
VPR2x HSS-270-FSB-xx



VPR2x HSS-90-S-xx



VPR2x HSS-270-FSB-xx



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SSA-B Series Poles

SQUARE STRAIGHT ALUMINUM

DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	

POLE

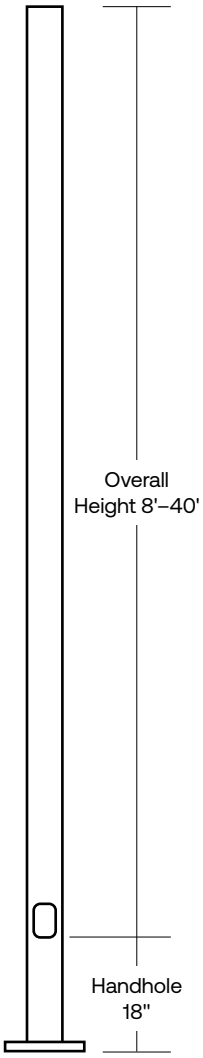
SPECIFICATIONS

CONSTRUCTION

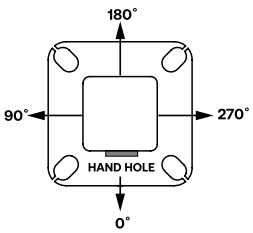
- Shaft: One-piece straight aluminum with square cross section, flat sides and minimum radius on all corners; Extruded shafts of 6061-T6 aluminum in 1/8", 3/16", or 1/4" thickness. Base plate of 356 cast aluminum
- Base cover: Four (4) individual bolt covers provided, painted to match pole and base finish
- Pole cap: Pole shaft supplied with removable cover when applicable; Tenon and post-top configurations also available
- Hand hole: Rectangular 3x5 aluminum 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
  - Anchor bolt part numbers: 3/4 x 30 x 3 — TAB-30-M38
    1 x 36 x 4 — TAB-36-M38
- Durable thermoset polyester powder coat paint finish with nominal 3.0 mil thickness
- Powder paint finish coat available in 12 standard colors; Custom colors available; RAL number preferable

INSTALLATION

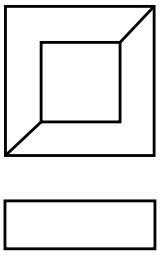
- Lighting installations for side and top mounting of luminaires with effective projected area (EPA) not exceeding maximum allowable loading of the specified pole in its installed geographic location



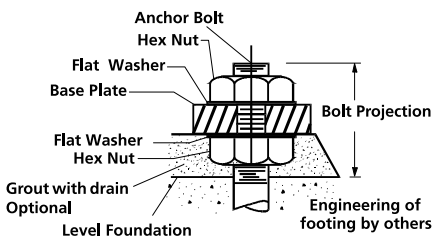
BASE



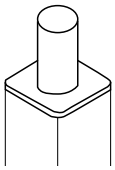
BASE COVER



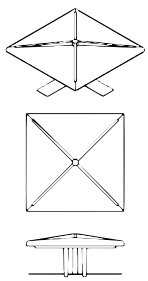
BASE DETAIL



TENON



POLE CAP



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SSA-B Series Poles

SQUARE STRAIGHT ALUMINUM

DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	

ORDERING INFORMATION

Example: SSA-B–25–50–B–2L–S2–DBT–UL

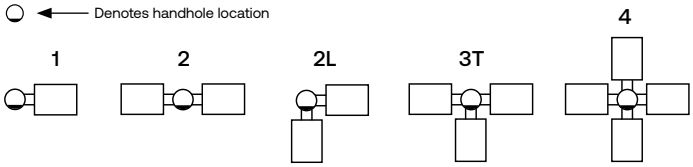
SSA-B	–	30	–	60	–	C	–	2	–	B3	–	BLT	–	VM1
Series		**Height**		**Shaft**		**Thickness**		**Mounting**		**Drill Pattern**		**Finish**		**Options**
SSA-B Square Straight Aluminum Pole Beacon		**Reference page 3 Ordering matrix**		**Reference page 3 Ordering matrix**		**Reference page 3 Ordering matrix** A - .125" Wall B - .188" Wall C - .250" Wall		**1** Single arm mount **2** Two fixtures at 180˚ **2L** Two fixtures at 90˚ **3T** Three fixtures at 90˚ **4** Four fixtures at 90˚ **TA** Tenon (2.38" OD x 4" Tall) **OT** Open Top (includes pole cap)		**B1** Cruzer, "AM" arm **B3** 2 bolt (2-1/2" spacing), Viper "A" arm **S2** 2 bolt (3-1/2" spacing), Viper "AD" arm **UDP** Universal Drill Pattern		**BLT** Black Matte Textured **BLS** Black Gloss Smooth **DBT** Dark Bronze Matte Textured **DBS** Dark Bronze Gloss Smooth **GTT** Graphite Matte Textured **LGT** Light Grey Matte Textured **LGS** Light Grey Gloss Smooth **PSS** Platinum Silver Smooth **WHT** White Matte Textured **WHS** White Gloss Smooth **VGT** Verde Green Textured **Color Option** **CC** Custom Color[2]		**GFI**[3] 20 Amp GFCI Receptacle and Cover **EHH**[3] Extra Handhole **C05**[3] .5" Coupling **C07**[3] .75" Coupling **C20**[3] 2" Coupling **MPB**[3] Mid-pole Luminaire Bracket **VM1**[4] Mode vibration dampener **VM2**[5] 2nd mode vibration dampener **LAB** Less Anchor Bolts **UL** UL Certified

Accessories (Order Separately)

- ☐ **VM2S08** Field-installed 2nd mode vibration dampener - 8 ft
- ☐ **VM2S12** Field-installed 2nd mode vibration dampener - 12 ft
- ☐ **VM2S16** Field-installed 2nd mode vibration dampener - 16 ft
- ☐ **VM2S20** Field-installed 2nd mode vibration dampener - 20 ft
- ☐ **VM2S25** Field-installed 2nd mode vibration dampener - 25 ft

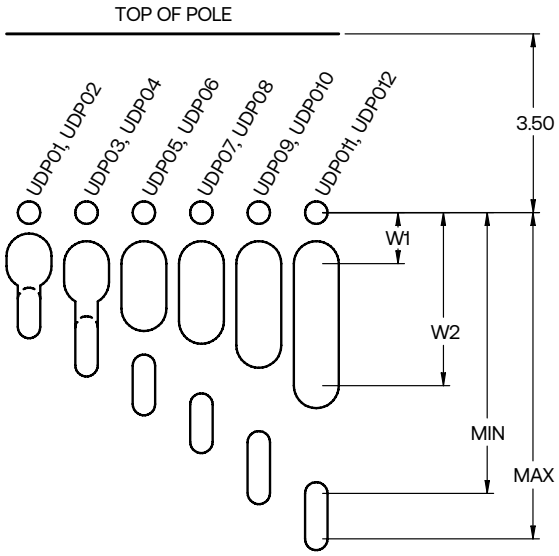
1 Removable tenon used in conjunction with side arm mounting. First specify desired arm configuration followed by the "TR" notation. Example: SSA-B-25-40-A-1-B1-TR-BBTT.
2 Custom colors available; RAL number preferable
3 Specify option location using logic found on page 3 (Option Orientation).
4 VM1 recommended on poles 20' and taller with EPA of less than 1.
5 There will be a weld witness mark on the side of the pole with the Factory installed VM2

MOUNTING ORIENTATION



DRILL PATTERNS

UNIVERSAL DRILL PATTERN (UDP)



Two Bolt Mounting with Center Wireway						
Mounting Hardware	Universal Mounting Patterns					
⅜" or less	UDP01	UDP03	UDP05	UDP07	UDP09	UDP011
7⁄16" to ½"	UDP02	UDP04	UDP06	UDP08	UDP010	UDP012
"Min" Attachment Dimension	1.69	2.25	3.00	3.76	4.50	5.50
"Max" Attachment Dimension	2.24	2.99	3.75	4.49	5.49	6.00
W1 (Wireway min)	0.85	1.00	1.00	1.00	1.00	1.00
W2 (Wireway max)	1.05	1.36	1.88	2.13	2.60	3.00

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DATE: | LOCATION:

TYPE: | PROJECT:

CATALOG #:

SSA-B Series Poles

SQUARE STRAIGHT ALUMINUM

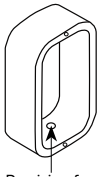
ORDERING INFORMATION (CONTINUED)

CATALOG NUMBER	HEIGHT		NOMINAL SHAFT DIMENSIONS	WALL THICKNESS	BOLT CIRCLE (SUGGESTED)	BASE PLATE SIZE	ANCHOR BOLT SIZE	BOLT PROJECTION	POLE WEIGHT (LBS)
	FEET	METERS							
SSA-B-08-40-A	8	2.4	4" Square	.125"	8.5"	9.88 x 2"	3/4 x 30 x 3"	3"	32
SSA-B-10-40-A	10	3.0	4" Square	.125"	8.5"	9.88 x 2"	3/4 x 30 x 3"	3"	37
SSA-B-12-40-A	12	3.7	4" Square	.125"	8.5"	9.88 x 2"	3/4 x 30 x 3"	3"	42
SSA-B-14-40-A	14	4.3	4" Square	.125"	8.5"	9.88 x 2"	3/4 x 30 x 3"	3"	47
SSA-B-16-40-A	16	4.9	4" Square	.125"	8.5"	9.88 x 2"	3/4 x 30 x 3"	3"	52
SSA-B-18-40-A	18	5.5	4" Square	.125"	8.5"	9.88 x 2"	3/4 x 30 x 3"	3"	57
SSA-B-20-40-A	20	6.1	4" Square	.125"	8.5"	9.88 x 2"	3/4 x 30 x 3"	3"	62
SSA-B-16-40-B	16	4.9	4" Square	.188"	8.5"	9.88 x 2"	3/4 x 30 x 3"	3"	74
SSA-B-18-40-B	18	5.5	4" Square	.188"	8.5"	9.88 x 2"	3/4 x 30 x 3"	3"	80
SSA-B-20-40-B	20	6.1	4" Square	.188"	8.5"	9.88 x 2"	3/4 x 30 x 3"	3"	85
SSA-B-18-50-B	18	5.5	5" Square	.188"	10.5"	11.25" x 2.5"	3/4 x 30 x 3"	3.5"	91
SSA-B-20-50-B	20	6.1	5" Square	.188"	10.5"	11.25" x 2.5"	3/4 x 30 x 3"	3.5"	107
SSA-B-25-50-B	25	7.6	5" Square	.188"	10.5"	11.25" x 2.5"	3/4 x 30 x 3"	3.5"	130
SSA-B-16-60-B	16	4.9	6" Square	.188"	12"	12.75" x 2.75"	1 x 36 x 4"	3.75"	105
SSA-B-18-60-B	18	5.5	6" Square	.188"	12"	12.75" x 2.75"	1 x 36 x 4"	3.75"	130
SSA-B-20-60-B	20	6.1	6" Square	.188"	12"	12.75" x 2.75"	1 x 36 x 4"	3.75"	155
SSA-B-25-60-B	25	7.6	6" Square	.188"	12"	12.75" x 2.75"	1 x 36 x 4"	3.75"	180
SSA-B-30-60-B	30	9.1	6" Square	.188"	12"	12.75" x 2.75"	1 x 36 x 4"	3.75"	210
SSA-B-16-60-C	16	4.9	6" Square	.250"	12"	12.75" x 2.75"	1 x 36 x 4"	3.75"	121
SSA-B-18-60-C	18	5.5	6" Square	.250"	12"	12.75" x 2.75"	1 x 36 x 4"	3.75"	144
SSA-B-20-60-C	20	6.1	6" Square	.250"	12"	12.75" x 2.75"	1 x 36 x 4"	3.75"	166
SSA-B-25-60-C	25	7.6	6" Square	.250"	12"	12.75" x 2.75"	1 x 36 x 4"	3.75"	224
SSA-B-30-60-C	30	9.1	6" Square	.250"	12"	12.75" x 2.75"	1 x 36 x 4"	3.75"	258

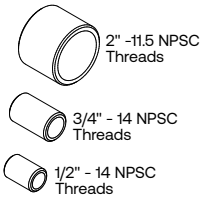
Notes:
- Factory supplied template must be used when setting anchor bolts. Current will deny any claim for incorrect anchorage placement resulting from failure to use factory supplied template and anchor bolts.
- For more information about pole vibration and vibration dampeners, please consult factory.
- Unwrap poles immediately upon receipt to avoid condensation build up and possible corrosion.

[1] There will be a weld witness mark on the side of the pole with the Factory installed VM2.

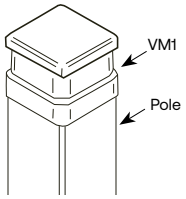
EHH
Extra handhole



C05 / C07 / C20
Coupling



VM1
1st mode vibration dampener



Field Installed Pole Top dampener designed to reduce pole top deflection or sway. VM1 is recommended for pole systems 25' and taller with a total EPA of 1.0 or less.

VM2[1]
2nd mode vibration dampener



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

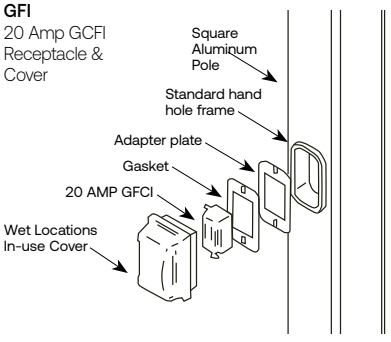
VM2SXX
Field-installed 2nd mode vibration dampener



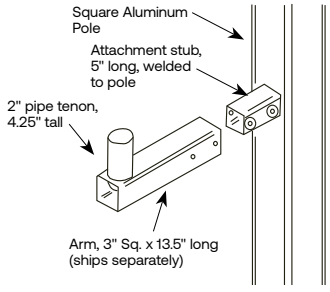
VM2S08 – 8'
VM2S12 – 12'
VM2S16 – 16'
VM2S20 – 20'
VM2S24 – 24'

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

GFI
20 Amp GCFI Receptacle & Cover



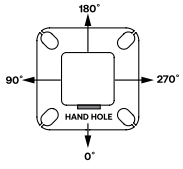
MPB
Mid Pole Bracket

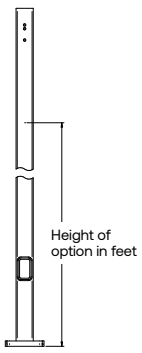


Option Orientation

Follow the logic below when ordering location specific options. For each option, include its orientation (in degrees) and its height (in feet).

Example: Option C05 should be ordered as: SSA-B-20-40-A-TA-DBT-C05-0-15 (.5" coupling on the handhole/arm side of pole, 15' up from the pole base) 1' spacing required between option. Consult factory for other configurations.





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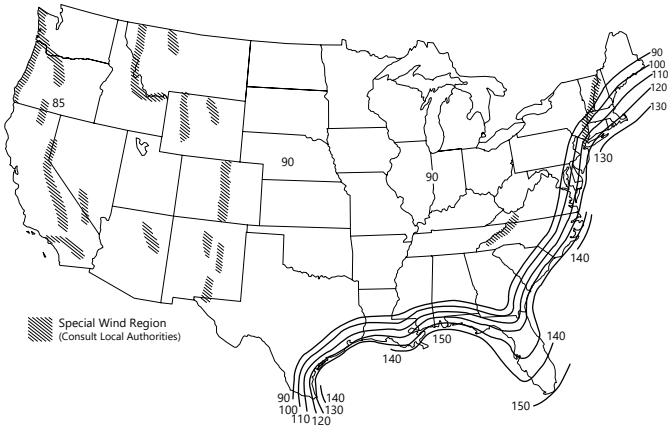
SSA-B Series Poles

SQUARE STRAIGHT ALUMINUM

DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	

WIND MAPS

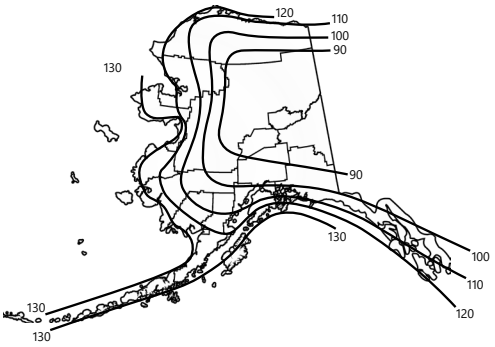
ASCE7-05 WIND MAP



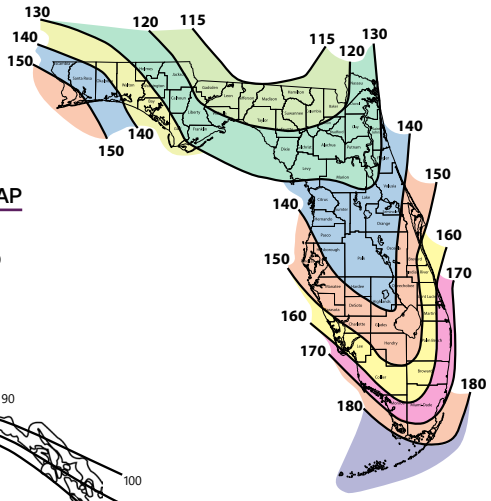
HAWAII – 105 mph
PUERTO RICO – 145 mph

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ALASKA REGION WIND MAP



FLORIDA REGION WIND MAP



Florida region wind map above is based upon 3-second gust winds and the 2017 Florida Building Code.

ASCE 7-05 wind map EPA Load Rating - 3 second gust wind speeds (Use for all locations except Florida)										
Catalog Number	85	90	100	105	110	120	130	140	145	150
SSA-B-08-40-A	17.3	15.2	12.0	10.7	9.6	7.7	6.2	5.0	4.5	4.0
SSA-B-10-40-A	12.6	11.0	8.4	7.4	6.5	4.9	3.7	2.8	2.4	2.0
SSA-B-12-40-A	9.3	7.9	5.8	4.9	4.2	2.9	1.9	1.1	0.8	0.5
SSA-B-14-40-A	6.7	5.6	3.8	3.0	2.4	1.3	NR	NR	NR	NR
SSA-B-16-40-A	4.7	3.7	2.1	1.4	0.9	NR	NR	NR	NR	NR
SSA-B-18-40-A	2.9	2.1	0.6	NR	NR	NR	NR	NR	NR	NR
SSA-B-20-40-A	1.4	0.6	NR	NR	NR	NR	NR	NR	NR	NR
SSA-B-16-40-B	9.2	7.7	5.4	4.5	3.7	2.3	1.2	NR	NR	NR
SSA-B-18-40-B	6.8	5.6	3.6	2.7	2.0	0.8	NR	NR	NR	NR
SSA-B-20-40-B	4.8	3.7	1.9	1.2	0.6	NR	NR	NR	NR	NR
SSA-B-18-50-B	12.9	10.9	7.6	6.3	5.1	3.2	1.7	0.5	NR	NR
SSA-B-20-50-B	9.8	8.1	5.2	4.0	3.0	1.3	NR	NR	NR	NR
SSA-B-25-50-B	4.0	2.7	0.5	NR	NR	NR	NR	NR	NR	NR
SSA-B-16-60-B	25.0	22.3	16.9	14.7	12.7	9.6	7.0	5.0	4.2	3.4
SSA-B-18-60-B	20.7	17.7	13.0	11.0	9.3	6.5	4.3	2.6	1.8	1.1
SSA-B-20-60-B	16.4	13.8	9.6	7.9	6.4	3.9	2.0	NR	NR	NR
SSA-B-25-60-B	8.3	6.3	3.1	1.8	0.7	NR	NR	NR	NR	NR
SSA-B-30-60-B	2.5	0.8	NR	NR	NR	NR	NR	NR	NR	NR
SSA-B-16-60-C	25.0	25	24.5	21.5	19.0	14.9	11.6	9.0	7.9	6.8
SSA-B-18-60-C	25.0	25	19.5	17.1	14.9	11.2	8.3	6.0	5.1	4.2
SSA-B-20-60-C	24.2	20.9	15.4	13.2	11.2	8.0	5.5	3.5	2.6	1.8
SSA-B-25-60-C	14.2	11.6	7.5	5.8	4.3	1.9	NR	NR	NR	NR
SSA-B-30-60-C	7.1	5	1.7	NR	NR	NR	NR	NR	NR	NR

Florida Building Code 2017 EPA Load Rating - 3 second gust wind speeds (Use for Florida only)								
Catalog Number	115	120	130	140	150	160	170	180
SSA-B-08-40-A	14.8	13.4	11.0	9.1	7.6	6.3	5.3	4.4
SSA-B-10-40-A	10.9	9.8	7.9	6.3	5.1	4.1	3.2	2.5
SSA-B-12-40-A	7.9	7.0	5.4	4.1	3.0	2.2	1.5	0.9
SSA-B-14-40-A	5.6	4.8	3.4	2.3	1.4	0.6	NR	NR
SSA-B-16-40-A	3.6	2.9	1.7	0.7	NR	NR	NR	NR
SSA-B-18-40-A	1.8	1.2	NR	NR	NR	NR	NR	NR
SSA-B-20-40-A	NR	NR	NR	NR	NR	NR	NR	NR
SSA-B-16-40-B	7.7	6.7	4.9	3.5	2.4	1.5	0.7	NR
SSA-B-18-40-B	5.4	4.5	3.0	1.8	0.8	NR	NR	NR
SSA-B-20-40-B	3.5	2.7	1.3	NR	NR	NR	NR	NR
SSA-B-18-50-B	10.6	9.2	6.8	4.9	3.3	2.0	1.0	NR
SSA-B-20-50-B	7.8	6.5	4.4	2.7	1.3	NR	NR	NR
SSA-B-25-50-B	2.2	1.2	NR	NR	NR	NR	NR	NR
SSA-B-16-60-B	22.0	19.6	15.5	12.4	9.8	7.7	5.9	4.4
SSA-B-18-60-B	17.2	15.2	11.7	8.9	6.6	4.8	3.3	2.0
SSA-B-20-60-B	13.4	11.5	8.4	6.4	4.0	2.4	1.0	NR
SSA-B-25-60-B	5.7	4.4	2.0	NR	NR	NR	NR	NR
SSA-B-30-60-B	NR	NR	NR	NR	NR	NR	NR	NR
SSA-B-16-60-C	25.0	25.0	22.8	18.6	15.2	12.5	10.1	8.2
SSA-B-18-60-C	25.0	22.5	18.0	14.3	11.3	9.0	7.0	5.3
SSA-B-20-60-C	20.4	18.0	14.0	10.8	8.2	6.0	4.3	2.8
SSA-B-25-60-C	11.2	9.3	6.2	3.8	1.8	NR	NR	NR
SSA-B-30-60-C	4.3	2.9	NR	NR	NR	NR	NR	NR

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SSA-B Series Poles

SQUARE STRAIGHT ALUMINUM

DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	

NOTES

Wind-speed Website disclaimer:
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- 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 Current Lighting's Pole Vibration Application Guide for environmental risk factors and design considerations.
- 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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GEOPAK Series 2

SIZE 2 - TRP2/QSP2/RDI2

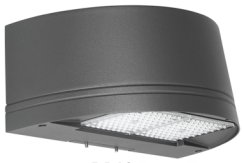
DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	

FEATURES

- Mid sized architectural wallpacks in three stylish shapes
- Capable of replacing up to 400w HID luminaires
- Type 2, 3, 4F and 4W distributions for a wide variety of applications
- Integral battery backup options
- Control capabilities offer additional energy savings options
- Zero uplight distributions



TRP2



RDI2



QSP2

C US

BAA — PROUDLY ASSEMBLED IN THE UNITED STATES OF AMERICA

CEC T20 COMPLIANT

SPECIFICATIONS

CONSTRUCTION

- Die-cast aluminum housing and door
- Seven powder coat standard finishes, plus custom color options
- Meets ASTM B117 with 1,000 hours of salt spray exposure

OPTICS

- LEDs deliver up to 15,000 lumens
- Up to 155 lumens per watt (LPW)
- Different lenses offer a variety of distribution patterns - Type 2, 3, 4F & 4W
- CCT: 3000K, 4000K, and 5000K
- CRI: 70 and 80

INSTALLATION

- Quick-mount adapter with gasket seal provides easy installation to wall or to recessed junction box (4" square junction box). Fixture attaches by two Allen-head hidden fasteners for tamper resistance
- Back box accessory available for surface conduit application

ELECTRICAL

- Optional Dual Drivers & Dual Power Feed
- 120-277, 347 and 480 voltage, 50/60Hz
- Power factor > 90%
- THD (Total Harmonic Distortion) <20%

ELECTRICAL (CONTINUED)

- Ambient operating temperature -40°C to 40°C
- Optional: 20kA surge protection device (series); Automatically takes fixture off-line when device is consumed
- Integral Battery Backup provides emergency lighting with 13W of power for the required 90 minutes for path of egress
- Independent dedicated driver and LED array for battery/emergency mode operation

CONTROLS

- Drivers are 0-10V dimming standard
- Universal button photocontrol for dusk to dawn energy savings
- Photocell and occupancy sensor options available for complete on/off and dimming control
- Dual Driver option provides 2 drivers within luminaire but only one set of leads exiting the luminaire, where Dual Power Feed provides two drivers which can be wired independently as two sets of leads are extended from the luminaire. Both options can not be included in one same fixture.

CERTIFICATIONS

- IP65 rated housing
- Zero uplight (U0), dark sky, neighbor friendly
- Drivers IP66 and RoHS compliant
- This product meets federal procurement law requirements under the Buy American Act (FAR 52.225-9) and Trade Agreements Act (FAR 52.225-11). See Buy American Solutions.

WARRANTY

- 5 year limited warranty

KEY DATA	
Lumen Range	3,500–15,000
Wattage Range	24–126
Efficacy Range (LPW)	95–154
Weights lbs. (kg)	16–18 (7.3–8.2)

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GEOPAK Series 2

SIZE 2 - TRP2/QSP2/RDI2

DATE: | LOCATION:

TYPE: | PROJECT:

CATALOG #:

ORDERING GUIDE

Example: TRP2–36L-25–3K7–2–UNV–DBT

CATALOG #

ORDERING INFORMATION

QSP2 – 160L-35 – 4K7 – 2 – UNV –

Series	
TRP2	Trapezoid
RDI2	Radius
QSP2	Quartersphere

# LEDs - Wattage	
36L-25	4,200 Lumens (Strike)
36L-39	5,700 Lumens (Strike)
36L-55	7,700 Lumens (Strike)
36L-85	10,300 Lumens (Strike)
36L-105	12,300 Lumens (Strike)
36L-120	13,100 Lumens (Strike)
160L-25	3,600 Lumens (Micro Strike)
160L-35	5,500 Lumens (Micro Strike)
160L-50	7,700 Lumens (Micro Strike)
160L-75	9,700 Lumens (Micro Strike)
160L-100	12,000 Lumens (Micro Strike)
160L-115	14,600 Lumens (Micro Strike)

CCT/CRI	
27K8	2700K, 70 CRI
3K7	3000K, 70 CRI
3K8	3000K, 80 CRI
4K7	4000K, 70 CRI
4K8	4000K, 80 CRI
5K7	5000K, 70 CRI
5K8	5000K, 80 CRI

Distribution	
2	TYPE 2
3	TYPE 3
4W	TYPE 4W
4F	TYPE 4 Forward

Voltage	
UNV	120-277V
120	120V
208	208V
240	240V
277	277V
347	347V
480	480V

BLT – – –

Color	
BLT	Black Matte Textured
BLS	Black Gloss Smooth
DBT	Dark Bronze Matte Textured
DBS	Dark Bronze Gloss Smooth
GTT	Graphite Matte Textured
LGS	Light Grey Gloss Smooth
PSS	Platinum Silver Smooth
WHT	White Matte Textured
WHS	White Gloss Smooth
VGT	Verde Green Textured
Color Option	
CC	Custom Color

Control Options	
PC	Button Photocontrol
NXW	NX Wireless Radio (No Sensor)
NXWS	NX Wireless Sensor w/BT
BTSO	Bluetooth Sensor OMNI
CD	Customer Dimming
Mount Height	
-12F	Up to 12ft mount height

Options	
SF [1]	Single fuse & fuse holder
DF [1]	Double fuse & fuse holder
E [2, 3, 4]	Battery pack (0°C)
EH [2, 3, 4]	Battery pack (-20°C) with heater
2DR [5]	Dual Drivers
2PF [2, 5]	Dual power feeds
SP	Surge Protector

Notes:

1 Must specify voltage
2 Battery option not compatible with 2 power feeds
3 E and EH options available for 160L-25, 160L-35, 160L-50, 36L-25, 36L-39, and 36L-55
4 E and EH available for UNV, 120, 208, 240, 277V
5 Option only available with 36L-85, 36L-105, 36L-120, 160L-75, 160L-100, and 160L-115.

ACCESSORIES (ORDERED SEPARATELY)

	Catalog Number	Description
☐	WP-BB-DBT	Backbox with four 1/2" threaded conduit holes painted Dark Bronze Texture

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DATE: | LOCATION:

TYPE: | PROJECT:

CATALOG #:

GEOPAK Series 2

SIZE 2 - TRP2/QSP2/RDI2

PERFORMANCE DATA (MICRO STRIKE)

Description	Nominal Wattage	System Watts	Dist. Type	5K (5000K NOMINAL 70 CRI)					4K (4000K NOMINAL 70 CRI)					3K (3000K NOMINAL 80 CRI)				
				Lumens	LPW	B	U	G	Lumens	LPW	B	U	G	Lumens	LPW	B	U	G
160L	25	24.4	2	3734	153	1	0	1	3663	150	1	0	1	3557	146	1	0	1
			3	3744	154	1	0	1	3672	151	1	0	1	3565	146	1	0	1
			4F	3721	153	1	0	1	3651	150	1	0	1	3544	145	1	0	1
			4W	3704	152	1	0	1	3633	149	1	0	1	3528	145	1	0	1
	35	37.7	2	5602	149	1	0	2	5495	146	1	0	2	5335	142	1	0	2
			3	5616	149	1	0	2	5509	146	1	0	2	5348	142	1	0	2
			4F	5582	148	1	0	2	5476	145	1	0	2	5316	141	1	0	2
			4W	5556	147	2	0	2	5450	145	1	0	2	5291	140	1	0	2
	50	56.2	2	7880	140	1	0	2	7730	138	1	0	2	7504	134	1	0	2
			3	7899	141	1	0	2	7749	138	1	0	2	7523	134	1	0	2
			4F	7852	140	1	0	2	7703	137	1	0	2	7478	133	1	0	2
			4W	7815	139	1	0	2	7666	136	1	0	2	7443	132	1	0	2
	75	71.9	2	9971	139	2	0	2	9781	136	2	0	2	9496	132	1	0	2
			3	9996	139	2	0	2	9805	136	2	0	2	9520	132	1	0	2
			4F	9936	138	1	0	2	9747	136	2	0	2	9463	132	1	0	2
			4W	9890	138	1	0	2	9701	135	2	0	2	9419	131	1	0	2
	100	95.7	2	12361	129	2	0	2	12126	127	2	0	2	11772	123	2	0	2
			3	12392	129	2	0	2	12156	127	2	0	2	11802	123	2	0	2
			4F	12318	129	2	0	2	12083	126	2	0	2	11731	123	2	0	2
			4W	12260	128	2	0	2	12027	126	2	0	2	11676	122	2	0	2
	115	116.6	2	14990	129	2	0	2	14705	126	2	0	2	14277	122	2	0	2
			3	15088	129	3	0	2	14801	127	3	0	3	14370	123	3	0	3
			4F	14970	128	2	0	3	14685	126	2	0	3	14257	122	2	0	2
			4W	14981	128	2	0	3	14695	126	3	0	3	14267	122	2	0	3

MULTIPLIER (MICRO STRIKE)

Micro Strike Lumen Multiplier			
CCT	70CRI	80CRI	90CRI
2700K	-	0.869	-
3000K	0.945	0.832	0.626
3500K	-	0.900	-
4000K	1.027	0.951	0.718
5000K	1.000	0.937	0.791
Monochromatic Amber Multiplier			
Amber	0.719		

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DATE: LOCATION:

TYPE: PROJECT:

CATALOG #:

GEOPAK Series 2

SIZE 2 - TRP2/QSP2/RDI2

PERFORMANCE DATA (STRIKE)

Description	Nominal Wattage	System Watts	Dist. Type	5K (5000K NOMINAL 70 CRI)					4K (4000K NOMINAL 70 CRI)					3K (3000K NOMINAL 80 CRI)				
				Lumens	LPW	B	U	G	Lumens	LPW	B	U	G	Lumens	LPW	B	U	G
36L	25	32.1	2	4131	130	1	0	1	4208	132	1	0	1	3861	121	1	0	1
			3	4150	130	1	0	2	4227	132	1	0	2	3878	121	1	0	1
			4F	4163	130	1	0	1	4241	132	1	0	1	3891	122	1	0	1
			4W	4156	130	1	0	2	4233	132	1	0	2	3884	121	1	0	2
	39	45.1	2	5618	125	1	0	1	5723	127	1	0	1	5251	116	1	0	1
			3	5644	125	1	0	2	5749	127	1	0	2	5274	117	1	0	2
			4F	5662	126	1	0	2	5768	128	1	0	2	5291	117	1	0	2
			4W	5652	125	1	0	2	5757	128	1	0	2	5282	117	1	0	2
	55	63.1	2	7458	118	1	0	2	7659	121	1	0	2	6970	110	1	0	2
			3	7552	120	1	0	2	7694	122	1	0	2	7058	112	1	0	2
			4F	7577	120	1	0	2	7718	122	1	0	2	7081	112	1	0	2
			4W	7564	120	1	0	3	7705	122	1	0	3	7069	112	1	0	3
	85	88.0	2	10121	115	2	0	2	10311	117	2	0	2	9459	107	2	0	2
			3	10167	116	1	0	3	10357	118	1	0	3	9502	108	1	0	3
			4F	10200	116	1	0	2	10390	118	1	0	2	9532	108	1	0	2
			4W	10182	116	1	0	3	10372	118	1	0	3	9516	108	1	0	3
	105	111.7	2	12022	108	2	0	2	12247	110	2	0	2	11235	101	2	0	2
			3	12075	108	2	0	3	12301	110	2	0	3	11285	101	2	0	3
			4F	12115	108	1	0	3	12341	110	1	0	3	11322	101	1	0	2
			4W	12093	108	2	0	3	12319	110	2	0	3	11302	101	1	0	3
	120	126.2	2	12889	102	2	0	2	13130	104	2	0	2	12046	95	2	0	2
			3	12947	103	2	0	3	13189	105	2	0	3	12100	96	2	0	3
			4F	12989	103	1	0	3	13232	105	1	0	3	12139	96	1	0	3
			4W	12966	103	2	0	3	13208	105	2	0	3	12118	96	1	0	3

MULTIPLIER (STRIKE)

Strike Lumen Multiplier			
CCT	70CRI	80CRI	90CRI
2700K	0.900	0.810	0.62
3000K	0.933	0.853	0.659
3500K	0.959	0.894	0.711
4000K	1.000	0.900	0.732
5000K	1.000	0.900	0.732
Monochromatic Amber Multiplier			
Amber	0.255		

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GEOPAK Series 2

SIZE 2 - TRP2/QSP2/RDI2

PROJECTED LUMEN MAINTENANCE

Ambient Temperature	OPERATING HOURS					
	0	25,000	TM-21-11 36,000	50,000	100,000	L70 (Hours)
25°C / 77°F	1.00	0.97	0.96	0.95	0.91	408,000
40°C / 104°F	0.99	0.96	0.95	0.94	0.89	356,000

For Microstrike LEDs

LUMINAIRE AMBIENT TEMPERATURE FACTOR (LATF)

Ambient Temperature		Lumen Multiplier
0°C	32°F	1.03
10°C	50°F	1.01
20°C	68°F	1.00
25°C	77°F	1.00
30°C	86°F	0.99
40°C	104°F	0.98
50°C	122°F	0.97

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

ELECTRICAL DATA

# OF LEDS	Nominal Wattage	Input Voltage	Oper. Current (Amps)	System Power (Watts)
160L	25	120	0.20	24.4
		208	0.12	
		240	0.10	
		277	0.09	
		347	0.07	
		480	0.05	
	35	120	0.31	37.7
		208	0.18	
		240	0.16	
		277	0.14	
		347	0.11	
		480	0.08	
	50	120	0.47	56.2
		208	0.27	
		240	0.23	
		277	0.20	
		347	0.16	
		480	0.12	
	75	120	0.60	72.0
		208	0.35	
		240	0.30	
		277	0.26	
		347	0.21	
		480	0.15	
	100	120	0.80	95.7
		208	0.46	
		240	0.40	
		277	0.35	
		347	0.28	
		480	0.20	
	115	120	0.97	116.6
		208	0.56	
		240	0.49	
		277	0.42	
		347	0.34	
		480	0.24	

# OF LEDS	Nominal Wattage	Input Voltage	Oper. Current (Amps)	System Power (Watts)
36L	25	120	0.27	32.1
		208	0.15	
		240	0.13	
		277	0.12	
		347	0.09	
		480	0.07	
	39	120	0.38	45.1
		208	0.22	
		240	0.19	
		277	0.16	
		347	0.13	
		480	0.09	
	55	120	0.53	63.1
		208	0.30	
		240	0.26	
		277	0.23	
		347	0.18	
		480	0.13	
	85	120	0.73	88.0
		208	0.42	
		240	0.37	
		277	0.32	
		347	0.25	
		480	0.18	
	105	120	0.93	111.7
		208	0.54	
		240	0.47	
		277	0.40	
		347	0.32	
		480	0.23	
	120	120	1.05	126.2
		208	0.61	
		240	0.53	
		277	0.46	
		347	0.36	
		480	0.26	

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GEOPAK Series 2

SIZE 2 - TRP2/QSP2/RDI2

DATE: LOCATION:

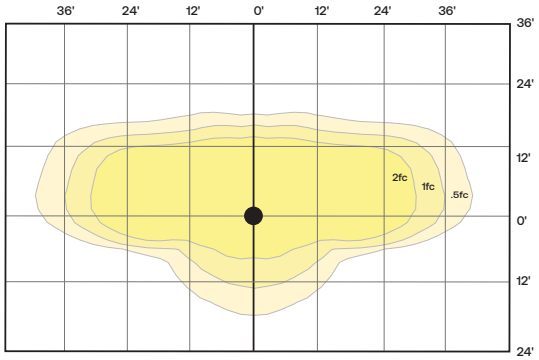
TYPE: PROJECT:

CATALOG #:

PHOTOMETRY

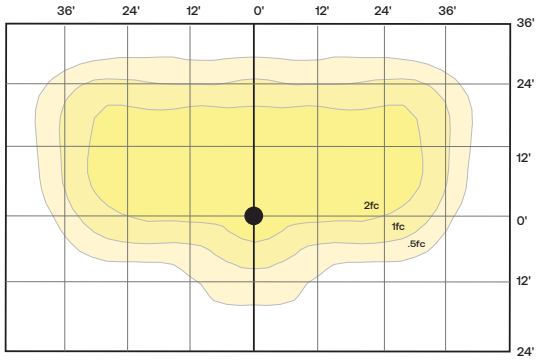
The following diagrams represent the general distribution options offered for this product. For detailed information on specific product configurations, see website photometric test reports.

TRP2-50W-4K7-T2



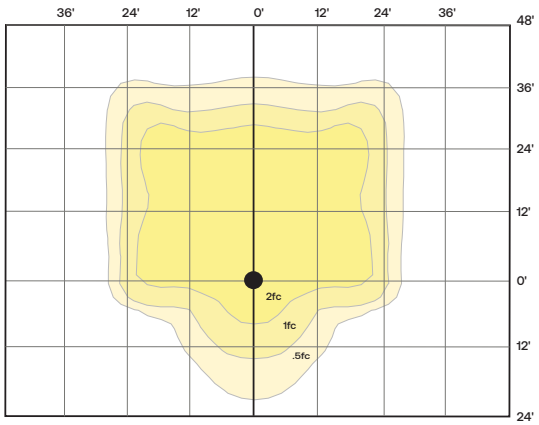
Mounting Height: 12'

TRP2-50W-4K7-T3



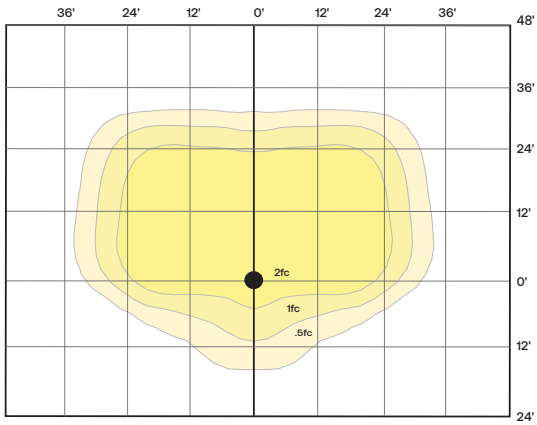
Mounting Height: 12'

TRP2-50W-4K7-T4F



Mounting Height: 12'

TRP2-50W-4K7-T4W



Mounting Height: 12'

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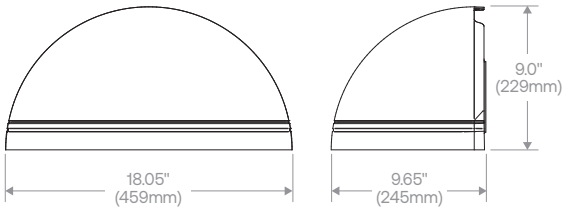
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GEOPAK Series 2

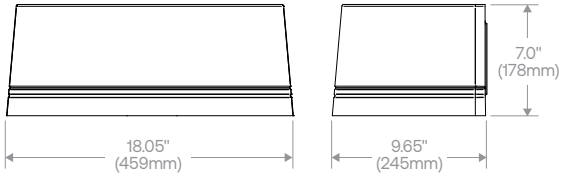
SIZE 2 - TRP2/QSP2/RDI2

DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	

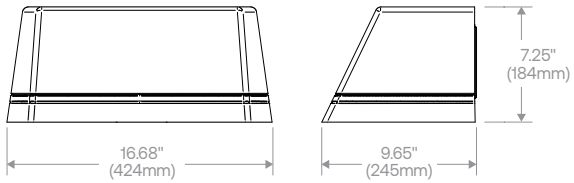
DIMENSIONS



QSP2
Weight:
15 lbs (6.8 kg)



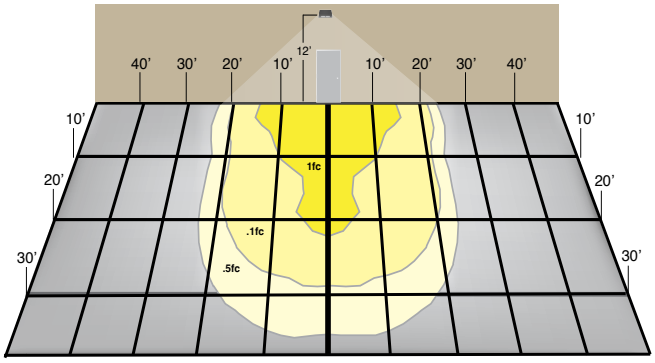
RDI2
Weight:
16 lbs (7.3 kg)



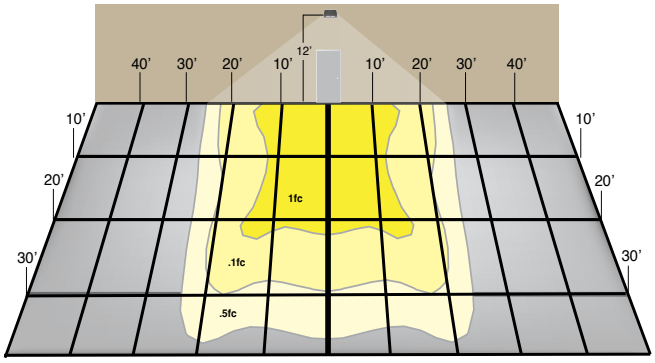
TRP2
Weight:
16 lbs (7.3 kg)

ADDITIONAL INFORMATION

PHOTOMETRICS - BATTERY BACK UP



36L - 12' Mounting Height



160L - 12' Mounting Height

Provides Life Safety Code average illuminance of 1.0 fc. Assumes open space with no obstructions and mounting height of 12'.
Diagrams for illustration purposes only, please consult factory for application layout.

CONTROL OPTIONS



Programmable occupancy sensor offers greater control and energy savings with adjustable delay and dimming levels (Factory default is 10%)

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