PLEASANT PRAIRIE PLAN COMMISSION MEETING
VILLAGE HALL AUDITORIUM
9915 39th AVENUE
PLEASANT PRAIRIE, WISCONSIN
6:00 P.M.
MAY 9, 2016

AGENDA

1. Call to Order.
2. Roll Call.
3. Correspondence.
4. Citizen Comments.
5. New Business.
   A. **PUBLIC HEARING AND CONSIDERATION OF A FLOODPLAIN BOUNDARY ADJUSTMENT** for the request of Matt Fineour, P.E. Village Engineer on behalf of the Village of Pleasant Prairie, owner of the property located at 8600 Green Bay Road to remove 1,500 cubic yards from the 100-year floodplain and to create 1,615 cubic yards of 100-year floodplain to compensate for the 100-floodplain begin filled for the construction of a 65,664 square foot Public Works equipment storage building.
   B. Consider the request of Matt Fineour, P.E. Village Engineer on behalf of the Village of Pleasant Prairie, owner of the property located at 8600 Green Bay Road for approval of **Site and Operational Plans** for the construction of a 65,664 square foot Public Works equipment storage building and associated site improvements.
   C. **PUBLIC HEARING AND CONSIDERATION OF A CONDITIONAL USE PERMIT (INCLUDING SITE AND OPERATIONAL PLANS)** for the request of John Steinbrink, Jr. Public Works Director, agent for Village of Pleasant Prairie owner of the property located at 8000 128th Street, for the proposed Residential Recycling Center. This facility is the Village's new residential compost site that is being relocated from the Roger Prange Municipal Center Building site.
   D. Consider the request of Michael Christiansen, owner of the property at 9301 River Road for approval of the **Lot Line Adjustment** with the adjacent property to the north located at 9109 River Road.
6. Adjourn.

It is possible that members and possibly a quorum of members of other governmental bodies of the municipality may be in attendance in the above stated meeting to gather information; no action will be taken by any other governmental body except the governing body noticed above.

The Village Hall is handicapped accessible. If you have other special needs, please contact the Village Clerk, 9915 39th Avenue, Pleasant Prairie, WI (262) 694-1400.

THESE ITEMS ARE RELATED AND WILL BE DISCUSSED AT THE SAME TIME HOWEVER SEPARATE ACTION IS REQUIRED.

A. **PUBLIC HEARING AND CONSIDERATION OF A FLOODPLAIN BOUNDARY ADJUSTMENT** for the request of Matt Fineour, P.E. Village Engineer on behalf of the Village of Pleasant Prairie, owner of the property located at 8600 Green Bay Road to remove 1,500 cubic yards from the 100-year floodplain and to create 1,615 cubic yards of 100-year floodplain to compensate for the 100-floodplain begin filled for the construction of a 65,664 square foot Public Works equipment storage building.

Recommendation: Village staff recommends that the Plan Commission send a favorable recommendation to the Village Board to approve the Floodplain Boundary Adjustment subject to the comments and conditions of the May 9, 2016 Village staff report.

B. Consider the request of Matt Fineour, P.E. Village Engineer on behalf of the Village of Pleasant Prairie, owner of the property located at 8600 Green Bay Road for approval of **Site and Operational Plans** for the construction of a 65,664 square foot Public Works equipment storage building and associated site improvements.

Recommendation: Village staff recommends that the Plan Commission approve the Site and Operational Plans subject to the comments and conditions of the May 9, 2016 Village staff report.

VILLAGE STAFF REPORT OF MAY 9, 2016

PUBLIC HEARING AND CONSIDERATION OF A FLOODPLAIN BOUNDARY ADJUSTMENT for the request of Matt Fineour, P.E. Village Engineer on behalf of the Village of Pleasant Prairie, owner of the property located at 8600 Green Bay Road to remove 1,500 cubic yards from the 100-year floodplain and to create 1,615 cubic yards of 100-year floodplain to compensate for the 100-floodplain begin filled for the construction of a 65,664 square foot Public Works equipment storage building.

Consider the request of Matt Fineour, P.E. Village Engineer on behalf of the Village of Pleasant Prairie, owner of the property located at 8600 Green Bay Road for approval of **Site and Operational Plans** for the construction of a 65,664 square foot Public Works equipment storage building and associated site improvements.

THESE ITEMS ARE RELATED AND WILL BE DISCUSSED AT THE SAME TIME HOWEVER SEPARATE ACTION IS REQUIRED.

The petitioner is requesting approval of: 1) a floodplain boundary adjustment to remove 1,500 cubic yards from the 100-year floodplain and to create 1,615 cubic yards of 100-year floodplain to compensate for the 100-floodplain begin filled; and 2) Site and Operational Plan approval for the construction of a 65,664 square foot Public Works equipment storage building and associated site improvements at the Village's Roger Prange Municipal Center located at 8600 Green Bay Road.

Site and Operational Plan: The Village is proposing to construct a new 65,664 square foot, pre-cast, fully-sprinklered storage building for Public Works Department equipment at the Roger Prange Municipal Center, 8600 Green Bay Road. The property is currently zoned I-1 Institutional District, C-1, Lowland Resource Conservancy District and FPO Floodplain overlay District. The new storage building will house equipment and vehicles that are currently being stored outside due to lack of space in the existing covered storage buildings. Such equipment includes snow plow trucks, plow blades, light duty vehicles, and other seasonal and general Public Works equipment. In conjunction with the new storage building, the Public Works Department will be relocating the residential recycling/compost site operations from the Roger Prange Municipal Center site to the former 73-1 site located at 8000 128th Street.

The hours of operation at the proposed building will correspond with typical Public Works Department operations, which are from Monday-Friday 6:30 a.m. to 3:30 p.m. and as needed for Village snowplowing, garbage, sanitary sewer and water operations or other municipal services.

The new building and related site improvements, including grading, expanding the storm water retention facilities, amending the 100-year floodplain and installing the required fire lane for the new building will result in the reduction of 12 parking spaces along the north side of the proposed building to accommodate the building's required 30-foot fire lane. The total number of outside surface parking spaces for employees and guests for the Prange Center buildings is 139 spaces, plus 3 handicapped accessible parking spaces.

The mass grading for the storage building project is projected to begin in May 2016, with building construction to begin shortly thereafter. The project is proposed to be completed by late fall, 2016.

The existing storm water pond and depression area west of the pond is not considered a wetland by the Wisconsin Department of Natural Resources (WI DNR). The U.S. Army

Corps of Engineers (ACOE) has not made a determination yet as to whether they are taking jurisdiction of these wetland areas. If the ACOE takes jurisdiction, then the Village will be required to submit for a Zoning Text and Map Amendment to rezone the field delineated wetlands into the C-1, Lowland Resource Conservancy District and to create a Planned Unit Development (PUD) Overlay District to modify or reduce the building's 25 foot setback from the wetlands and the existing gravel area setback to the wetlands. In addition, an amendment to the Village Comprehensive Land Use Plan will be required to correctly reflect the field delineated wetlands on the property.

Floodplain Boundary Adjustment: The Village is proposing to amend the Federal Emergency Management Agency (FEMA) Federal Insurance Rate Maps (FIRM), which have an effective date of June 19, 2012. The floodplain boundary amendment is associated with the 100-year floodplain of the Jerome Creek being impacted by the Public Works equipment storage building and associated site improvements. The proposed project will remove 1,500 cubic yards from the 100-year floodplain and create 1,615 cubic yards of 100-year floodplain to compensate for the 100-floodplain being filled. Upon the project's completion, there will be a net increase of 115 cubic yards of floodplain storage volume over the existing condition floodplain storage.

The proposed floodplain boundary adjustment amendment is consistent with the purposes of Section 420-131 of the Village Zoning Ordinance and is not in conflict with the applicable rules of the WI DNR or the FEMA. Furthermore, this project is proposed to be in compliance with Section 420-131 of the Village Zoning Ordinance and will comply with the following Village Ordinance requirements:

- The floodplain boundary adjustment shall be consistent with Section 420-131 of the Village Zoning Ordinance and not in conflict with the applicable rules of the WI DNR and FEMA.
- Amendments to the floodplain boundaries shall not be permitted where the change will increase the regional flood stage elevation unless the applicant has made appropriate legal arrangements with the Village, any other affected governmental units, and any other property owners affected by the flood stage increase.
- Petitions for the floodplain amendment shall provide adjusted water surface profiles and adjusted floodplain limits to reflect the increased flood elevation.
- Any area removed from the floodplain shall be contiguous to land lying outside the floodplain.
- Whenever any volume of flood storage capacity is removed from the floodplain, as defined by the ground surface and the regional flood elevation, an equal volume of flood storage capacity shall be created within the existing or newly created floodplain boundary, in the vicinity of the removal, to compensate for the lost flood storage capacity. Excavation below the ordinary high-water mark shall not be considered as providing any equal volume of storage capacity for compensation purposes. Any such area of compensating flood storage capacity shall drain freely to the receiving stream.
- Removal of land from the floodplain shall not be permitted unless the land has been filled to an elevation at least two (2) feet above the elevation of the floodplain.

The Village received Technical approval from the WI DNR on April 18, 2016 for the proposed floodplain adjustment (See ***attached*** letter).

Village staff is recommending that the requirement to obtain a Conditional Letter of Map Revision based on fill (CLOMR-F) be waived for this project to allow the petitioner to move forward at their own risk; however, a Letter of Map Revision based on fill (LOMR-F) after

construction is completed will be required. Upon obtaining the LOMR-F, the Zoning Map and Text Amendments and a Comprehensive Land Use Plan Amendment will also be required.

Item A Recommendation: Village staff recommends that the Plan Commission send a favorable recommendation to approve the Floodplain Boundary Adjustment subject to the above comments and the following conditions:

1. Upon completion of the work, an as-built grading plan and supporting documentation certified and stamped by a Wisconsin registered and licensed professional engineer shall be submitted to the Village to verify compliance with design plans. A paper copy and pdf copy is required to be submitted
2. After receiving a LOMR-F by FEMA, the petitioner shall submit an application to amend the Village Comprehensive Land Use Map and the Village Zoning Map and Text. A Certificate of Compliance shall not be issued by the Village until the Comprehensive Land Use Plan Amendment, the Zoning Text Amendment and Zoning Map Amendment are all approved by the Village.

Item B recommendation: Village staff recommends that the Plan Commission approve the Site and Operational Plans subject to the above comments and the following conditions:

1. Approval of the Floodplain Boundary Adjustment by the Village Board and compliance with all of the conditions of said approval (being considered by the Village Board on May 16, 2016.
2. The following changes shall be made to the plans and resubmitted for final staff review:
    a. Identify each building access point by number visible both outside and inside the structure the numerical sequence should begin at the front of the building and move clockwise around the structure. Shown on the Plans.
    b. A detailed landscaping plan shall be submitted for review.
    c. Subject to compliance with the Fire & Rescue Department comments dated May 4, 2016. **A compliance letter as noted in this memo shall be submitted prior to issuance of the permits. A copy of this letter shall be provided to the Community Development too**.
3. **Upon submittal of the revised Site and Operational Plans, all required commercial building permit applications and plans, and an Erosion Control Permit Application and Plans, along with a copy of the WI DNR N.O.I. Permit shall be submitted to the Village Building Inspection Department for review and issuance of permits.**
4. **Prior to work commencing on the site a pre-construction meeting shall be held with Village staff and all contractors. The meeting will be run by the Design Engineer and minutes shall be taken by the Design Engineer of Record and the minutes emailed or distributed within 7 days. This meeting shall be scheduled and coordinated through Jean Werbie-Harris, Community Development Director.**
5. Other Comments:
    a. Prior to work commencing on the site, all required permits shall be issued by the Village, all required erosion control measures shall be in place and inspected and maintained.

b. **After the installation of the footings and foundations and prior to the setting of the walls, an as-built survey as stamped by a Wisconsin Registered Land Surveyor shall be submitted to the Village to verify that the building meets all of the required setbacks.**

c. **As built drawings shall be submitted to the Village Engineer prior to occupancy.**

d. The hours of construction activity, operating heavy machinery or equipment associated with the grading, erosion control device installation, and overall site development shall be limited to Monday through Friday from 6:00 a.m. to 10:00 p.m. and Saturday and Sunday from 7:00 a.m. to 6:00 p.m.

e. The exterior/interior man-doors shall be consecutively numbered starting at the front door starting with 1 and moving clockwise around the building. Both inside and outside of the doors shall be numbered with attractive consistently placed numerals. (Per Police Department).

f. Provide a landscaping plan for the site for Village staff review.

g. Provide details/permit applications for any fencing proposed on the site.

h. There shall be no construction parking permitted on STH 31. On-site (off-street) gravel parking areas shall be designed to accommodate all construction related workers and site visitors.

i. The Village shall approve of the location of all construction trailers parked on the site during construction activities. Any construction related signage shall be approved and permitted by the Village.

j. It is recommended that the east parking lot be reserved for construction project related vehicle parking. (Provide notification to Asplundh and other contractors who typically park their vehicles in the Village lot).

k. No use shall be conducted in such a way as to constitute a public or private nuisance or to violate any of the performance standards set out in Section 420-38 of the Village Zoning Ordinance.

l. This development shall be in compliance with the Village Land Division and Development Control Ordinance, Village Municipal and Zoning Codes, Village Construction Site Maintenance and Erosion Control Ordinance, Kenosha County Ordinances and the State of Wisconsin Statutes.

m. All Village fees incurred by the Community Development Department, Village Engineer, Village Inspectors and/or expert Assistants required by the Village throughout the development process will be billed directly to the Developer. Such fees shall be paid in a timely manner.

n. If the ACOE is taking jurisdiction then the petitioner will be required to submit for a Zoning Text and Map Amendment to rezone the field delineated wetlands into the C-1, Lowland Resource Conservancy District and create a Planned Unit Development (PUD) Overlay District to allow the building to be a minimum of 25 feet from the wetlands and the existing gravel area to have a zero foot setback to the wetlands. In addition, an amendment to the Village Comprehensive Land Use Plan will be required to correctly identify the field delineated wetlands on the property.

Office of the
Chief of Fire & Rescue
Doug McElmury

VILLAGE STAFF MEMORANDUM

TO: Jean Werbie-Harris, Community Development Director

FROM: Doug McElmury, Chief Fire & Rescue

CC: Craig Roepke, Deputy Chief Fire & Rescue

Lt. Thomas Clark, Fire & Rescue Department

Peggy Herrick, Assistant Planner, Community Development

SUBJECT: Fire Department review of Site and Operational Plans for Public Works Storage Building

DATE: May 4, 2016

These are initial comments for the Site and Operational Plans received for the Public Works Storage Building to be located at 8600 Green Bay Rd. in Pleasant Prairie.

The Fire and Rescue Department will be responsible for providing fire prevention inspections of this facility, twice annually. Based on the limited information and conceptual plans submitted, the Fire & Rescue Department have the following comments regarding the site:

Distribution of Comments: the person who obtains the building permit to all contractors and subcontractors affected by this document shall distribute copies of these comments. This document outlines critical times and deadlines. All recipients of this document must become familiar with the contents.

Compliance: A letter shall be submitted to the Fire & Rescue Department prior to receiving a building permit, stating that the project will comply with all requirements addressed within this document.

Conflicts: In the event a conflict in code(s) is identified, or a conflict with the insurance carrier criteria occurs, the more stringent shall apply. In the event this conflicts with any codes adopted by the State of Wisconsin, the owner must petition the State directly for a variance. The Owner must demonstrate that they will provide materials or design equivalent to the code or that they will exceed the code when petitioning the State of Wisconsin and/or the Village of Pleasant Prairie where applicable.

Fire Safety System Plans: such as fire sprinkler and fire alarm plans, will need to be submitted to the State of Wisconsin Department of Safety and Professional Services and also to this fire department for review. No installation of any fire protection system is allowed until a satisfactory review is obtained from both departments.

Pre-Construction Meeting: A pre-construction meeting shall take place with the general contractor, the fire protection contractor, the Fire and Rescue Department and any other sub-contractor prior to the installation of any underground fire protection. The purpose of this meeting is to assure that the requirements of the State of Wisconsin that only a Wisconsin licensed sprinkler fitter shall perform the installation of all devices, etc. All parties will be asked to initial this document and or permit. Any violation of the installing requirements will be reported in writing to the State of Wisconsin Department of Safety and Professional Services.

1. **Site Access:** Access shall be provided around the perimeter of the site for all Fire Department apparatus, and must comply with the State of Wisconsin and the International Building Code, 2009 edition. A minimum wall-to-wall turning radius of 45'-0" shall be allowed for apparatus movement.
    a. All entrances from public streets, as well as road and driveways around the proposed building must be a minimum of 30 feet wide.
    b. All exterior exit pathways as well as access to the Fire Pump room shall have a hard surface, leading to a hard surface.
    c. An exterior personnel door shall be located in close proximity to each fire sprinkler riser.
2. **Required Licenses:** A Wisconsin licensed fire protection contractor and Wisconsin licensed sprinkler fitters must install underground fire mains and aboveground fire protection. Periodic inspections of the job site will be made by fire inspectors to assure compliance.
3. **Insurance Carrier:** The Owner of this project shall submit to the insurance carrier for review the plans for both underground water distribution and fire protection prior to construction. The Fire & Rescue Department shall receive a copy of the comments when plans are submitted for review.
4. **Review and Comments:** At such time more information is provided for this project, the Fire Department will review and comment on the following areas outlined below.
    1. Standpipe outlet locations .
    2. Fire alarm pull stations
    3. Emergency and Exit Lighting
    4. Fire extinguishers
5. **Plan Review, Permits:** The plans for the fire protection underground, aboveground and fire alarm system shall be submitted for review a minimum of four (4) weeks before installation is scheduled to begin. The Village will use an independent fire safety consultant for review of all fire protection plans submitted. A satisfactory review must be completed before any permits will be issued and before construction can begin.
6. **Occupancy:** All fire and life safety requirements must be in place prior to any building being occupied.
7. **Exterior Doors:** All outside doors must have access to the interior. Such as a lock and handle provided at each door.
8. **Storage:** Maximum height, width and aisle ways and egress pathways must be maintained and will be enforced. The same concerns apply to the storage of quantities of combustibles (plastics and cardboard) and other storage of flammable liquids or chemicals must also be properly identified, placarded and stored.
9. **On Premise Secure Key System:** Knox Company Rapid Entry System, "Knox Boxes" shall be provided for the building. A determination of the exact number required will need to be made during the pre-construction meeting. One by each riser door and other needed access routes. The Knox Boxes shall be Model 4400. Two sets of all keys (Master, fire alarm pull station, annunciator, etc.) shall be placed within the box, as well as a copy of the pre-fire plan.
10. **MSDS Storage Box:** A minimum of one (1) Brady model JS1 designed for Material Safety Data Sheet storage shall be provided for each tenant to contain the data sheets on all products that are considered hazardous within the facility. The MSDS Box(s) shall be installed within the Fire Pump Room.
11. **Fire Extinguishers:** Shall meet NFPA 10 (Portable Fire Extinguishers) for the specific use of the building and be in sufficient number. Final approval, of fire extinguisher locations and quantity, will not be given until occupancy is taken, to see how a tenant furnishes the space. The company providing the fire extinguishers shall submit a letter to the Fire and Rescue Department stating the locations and size of the extinguishers are in compliance with NFPA 10.
12. **Emergency and Exit Lighting:** Exit and Emergency Lighting shall be provided and shall have battery backup. Combination units are acceptable and recommended. An Emergency Generator eliminates the need for battery backup. Exit and Emergency Lighting shall not be placed on electrical circuits that cannot be disturbed or interrupted, this is for test purposes. These circuits shall be clearly labeled. An Emergency light shall be placed within the fire pump room.

13. **Sprinkler System:** The building shall be equipped with an "automatic fire sprinkler system". The systems shall be designed and constructed to the current printed edition of NFPA 13, Automatic Fire Sprinklers and the Village of Pleasant Prairie Ordinance 180-16, Automatic Fire Sprinklers. Confirm NFPA edition with the Fire Department prior to system design.

14. **The following information must be submitted with the sprinkler plans for review:**

    Building height:
    Mezzanines:
    Hazard class:
    Commodity Class:
    Exterior storage:
    Fire protection:

15. **Plan Review (Underground):** A review of the underground drawings is required along with the fire protection drawings before a permit will be issued by the Fire and Rescue Department.

16. **Water Service:** The building will be serviced by a combination municipal water and fire protection main and that main must be sized by the fire protection (sprinkler) contractor. No main is allowed to travel underground, under the building. The fire protection (sprinkler) contractor shall also determine if the existing water main is capable of supplying a future sprinkler system in the Solid Waste storage building.

17. **Fire Hydrants:** The existing fire hydrants shall be used in their current locations.

18. **Fire Hydrant Acceptance**: This project will include the installation of water mains for domestic and fire protection use. Prior to the fire sprinkler system connection to any new water mains (including water mains, fire hydrants, laterals leading to the building and risers) must be hydrostatically tested flushed according to National Fire Protection Association (NFPA–National Fire Code) Standard 24 and witnessed by the Fire Chief and or the Chief's representative, the installing contractor and the fire sprinkler contractor at a minimum.

19. **Fire hydrant / water main flushing:** can be disruptive to the job site and requires significant coordination of all sub-contractors by the General Contractor. Nonetheless flushing is an essential part of assuring public safety. The General Contractor is highly encouraged to coordinate the flushing of all new water mains, fire hydrants, laterals leading to the building and risers with both the sub-contractors responsible, the Village of Pleasant Prairie Engineering Department, Fire & Rescue Department and the Water Utility Department, prior to seeking a 'clean water sample' on this site.

20. **Pumper Pad:** The existing Prange Center pumper pad hydrant shall be used and the FDC for the new storage building shall be located no more than five (5) feet from the roadway and the Fire Department sprinkler connection shall be placed no more than five (5) feet from the fire hydrant. The Fire Department connection shall be constructed along with an underground drain with access for inspection.

    NOTE: *The Fire Department Connection riser shall include a single five (5) inch Storz fitting.*

21. **Fire Pump:** Should a fire pump be required based on the design, There shall be sufficient room to maneuver within the fire pump room. There shall be direct ingress/egress from the fire pump room directly to the exterior of the building; a paved surface shall lead to the fire pump room. There shall be Emergency Lighting installed within the Fire Pump Room. The pump test header location shall comply with 180-16. There shall also be sufficient room for placement of the Fire Alarm Control Panel (FACP), along with the required maps of the fire protection systems.

22. **Standpipes:** In lieu of 1.5 inch hose stations, the building shall be equipped with standpipes that shall consist of 2-½ inch NST valve, capable of delivering 250 GPM, at 75 PSI measured at the standpipe valve. The standpipes shall be wet and placed adjacent to all exterior exit doors, same side as the door handle/knob. Village Ordinance 180.16 G.

23. **Strobe Light:** A strobe light shall be provided for each riser and installed vertically above each sprinkler water flow bell. The strobe light shall operate for a sprinkler water flow. The lens color shall be RED. The strobe light shall meet Village specifications as found in section 180-16 K of the Sprinkler Ordinance. A strobe light(s) shall also be provided outside of the fire pump/riser room to indicate a fire pump run and/or a waterflow alarm, with signage installed under each strobe light.

24. **Bollards:** Shall be placed near fire hydrants, remote post indicator valves (PIV) and Fire Department connection(s) to prevent damage. Bollards shall be 6 inches in diameter. Bollards shall not obstruct charged fire hoses. It is recommended that the Fire Department approve the location of the bollard(s) before final placement is made.

25. **Fire Alarm System: The system shall be fully addressable so that detailed information will be received about the device in alarm.** Utilizing a fire pull station, sprinkler water flow, or any other fire detection device that maybe installed in this building shall activate the internal fire alarm system. The systems shall be designed and constructed to the current printed edition of NFPA 72. Confirm NFPA edition with the Fire Department prior to system design

    a. **Manual Fire Alarm Pull Stations:** Shall be located at a minimum, immediately adjacent to each exterior door. Any additional exterior doors will be required to meet this requirement. The pull station shall not be placed in the area of the door, but immediately adjacent to the door jamb.

    b. **Pull Stations and Audiovisual Alarms:** Shall be installed per ADA requirements.

    c. **Smoke and Heat Detection:** Shall be installed as required.

    d. **Tamper Switches:** Tamper switches shall be placed on all sprinkler valves and be identified on the annunciator panel.

    e. **Fire Alarm Control Panel (FACP): Shall be addressable.** The main FACP will be placed in the fire pump room. Remote annunciator panel location(s) will also need to be determined during the pre-construction meeting. The annunciator panel type shall be approved by the Fire & Rescue Department. The panel shall identify a fire sprinkler water flow by riser, and the specific locations of the fire alarm pull stations and any other fire detection devices that may be installed in this building.

    f. **Fire Alarm Plans Location:** There shall be a designated location for a set of as-built fire alarm plans near the FACP per NFPA 72.

    g. **FACP Nomenclature:** Confirmation of nomenclature shall be discussed between the Fire Department and the fire alarm program technician prior to any inspections.

    h. **Annunciator Panel: Shall be addressable.** The annunciator panel type shall be approved by the Fire and Rescue Department. The panel shall identify a fire sprinkler water flow by riser, and the specific locations of the fire alarm pull stations and any other fire detection devices that may be installed in this building.

    i. **Transmission of Fire Alarms.** The method of transmission to central station must be approved by the Fire & Rescue Department. i.e. RF Radio, cellular, VOIP, or other approved technologies.

    j. **FACP Main Panel:** There will be one main fire alarm panel within a building. The system will not be split into two or multiple fire alarm panels interconnected together. (Example: West wing is one panel, East wing is a different panel)

    k. **Central Station:** The Fire Alarm Control Panel shall transmit all fire alarm, tamper, trouble and supervisory signals to a central station that is certified by Underwriters Laboratories (UL) and/or Factory Mutual (FM) and approved by the Fire & Rescue Department. The owner shall provide such documentation for approval. It is recommended that the owner consult with the Fire & Rescue Department prior to signing any contracts with the Central station.

Fire:	Pleasant Prairie Fire & Rescue
Medical:	Pleasant Prairie Fire & Rescue
Phone numbers	
Emergency:	**(262) 694-1402**
Non-emergency:	(262) 694-7105
Business:	(262) 694-8027

26. **Final Inspection:** The General Contractor shall provide the following documentation at the time the Final Inspection takes place and before a building occupancy certificate will be issued.

    a. The fire protection contractor shall provide the owner with a letter (upon completion of the sprinkler work) stating the sprinkler system, or portion thereof, is "100% operational and built according to the design", Village Ordinance, 180-16 N.

    b. The fire alarm contractor shall provide the owner with a letter (upon completion of the fire alarm work) stating the fire alarm system, or portion thereof, is "100% operational and built according to the design"

    c. Copies of the fire protection underground flushing documents.

    d. Copies of the underground and fire sprinkler hydrostatic test certificates.

    e. Copies of the fire sprinkler operational test certificates.

    f. Copies of the fire alarm test documents.

    g. Copies of other test documents such as, hood/duct, smoke, etc…

    h. The Pleasant Prairie Fire and Rescue Department shall have all information needed for our pre-fire plan prior to occupancy.

    i. Provide two- (2) CD's, one for the property owner and one for the Fire & Rescue Department. The disks shall include all Floor plans and fire protection plans for the building in an as-built condition.

    j. Maps of the fire alarm and fire sprinkler system shall be placed in the fire pump room, near the fire alarm control panel; the maps shall be hung on the wall, with a waterproof covering and accessible to firefighters wearing bulky clothes and equipment.

State of Wisconsin
DEPARTMENT OF NATURAL RESOURCES
Waukesha Service Center
141 NW Barstow St. Room 180
Waukesha WI 53188

Scott Walker, Governor
Cathy Stepp, Secretary
Telephone 608-266-2621
Toll Free 1-888-936-7463
TTY Access via relay - 711

April 18, 2016

Ms. Jean M. Werbie-Harris,
Community Development Director Village of Pleasant Prairie
9915 39th Avenue
Pleasant Prairie, WI 53158-6504

Subject: Technical Approval – Conditional Letter of Map Revision Based on 8600 Green Bay Road Pleasant Prairie FAD 12080

Dear Ms. Werbie-Harris:

The Department of Natural Resources (Department) completed its review of the Conditional Letter of Map Revision Based on Fill (CLOMR-F) at the Prange Center site on 8600 Green Bay Road, adjacent to Jerome Creek and Unnamed Tributary 4 to Jerome Creek. The original submittal was provided on April 12, 2016 and was prepared by Cindi V. DeBruine, P.E., R.A. Smith National, Inc. The project involves a floodplain boundary adjustment (cut and fill to re-delineate the floodplain boundary) for future construction of an industrial building, parking, access roads and infrastructure. The project is located in Section 15 in Township 1 North, Range 22 East. The Department's review finds that the Prange Center CLOMR-F meets the requirements of Wisconsin Administrative Code Chapter NR116.

Once the grading is complete, the final Letter of Map Revision Based on Fill (LOMR-F) will need to be submitted to the Department and the Federal Emergency Management Agency (FEMA). The Department's experience has been that the best time to submit the LOMR-F for these projects is after placing the fill but prior to constructing the building. Once the LOMR-F is issued, the Village should amend the Floodplain Ordinance to adopt the new information and submit the amendment to the Department for approval.

The Village should refer to FEMA Technical Bulletin 10-01 to ensure the project meets compaction standards and the future building will be reasonably safe from flooding.

Please note that this review only addresses floodplain considerations, and does not include a review of other permitting requirements. I would appreciate receiving copies of any correspondence that the Village or consultant receives from FEMA. The FEMA case reviewer can also contact me to discuss the submittal, if needed. If you have any questions, please contact me at (262)574-2188 or Nathan.Zoch@wisconsin.gov.

Sincerely,

Nathan Zoch, EIT
Water Management Engineer
Waukesha Service Center

cc: Cindi V. DeBruine, P.E., CFM - R.A. Smith National, Inc.
Michelle Staff, WDNR

VILLAGE OF PLEASANT PRAIRIE
SITE AND OPERATIONAL PLAN
AND CONDITIONAL USE PERMIT ZONING APPLICATION

USE THIS FORM FOR:
Tenants/Use changes proposing to occupy 50% or more of an existing commercial/industrial building.
To construct a **new** or addition to principal or accessory structure.
Use requires a Conditional Use Permit.

FOR OFFICE USE ONLY
Application Filed on _____20__
Preliminary Determination of Completeness on: _____20__
Revised Plans Submitted: _____20 __
☐ Public Hearing Required: Hearing Date: _____, 20__ Published on: _____ and _____, 20__ Notices sent on: _____, 20__
Approved by ☐ Plan Commission on _____ 20__ ☐ Zoning Administrator on _____ 20__
Denied by ☐ Plan Commission on _____ 20__ ☐ Zoning Administrator on _____20__

SECTION 1: GENERAL INFORMATION

NAME OF BUSINESS: Village of Pleasant Prairie

SITE ADDRESS: 8600 Green Bay Road

BRIEF PROJECT DESCRIPTION: Construction of a Public Works Department Storage Building.

PROPOSED NUMBER OF FULL TIME EMPLOYEES: N/A

PROPOSED NUMBER OF PART-TIME EMPLOYEES: N/A

SITE SIZE: _____ **sq. ft.** 70.58 **acres**

PROPOSED BUILDING SIZE: 65,664 **sq.ft. HEIGHT:** 23 **ft.**

PROPOSED ADDITION SIZE: _____ **sq.ft. HEIGHT:** _____ **ft.**

LEGAL DESCRIPTION: See Attached.

TAX PARCEL NUMBER(S) : 92-4-122-152-0301

CURRENT ZONING CLASSIFICATION(S) OF THE PROPERTY: I-1 ; C-1; FPO

1. **Is a zoning map amendment proposed with this project?** ☐ **Yes** ☑ **No**
   - **If yes**, proposed Zoning Classification(s): PUD
2. **Is a zoning text amendment proposed with this project?** ☑ **Yes** ☐ **No**
   - **If yes**, provide a copy of the proposed text amendment with this application

3. **If property is zoned M-1 or M-2, indicate the Occupancy Type pursuant to the Use and Occupancy Classification specified in Chapter 3 of the 2006 International Building Code (2006 IBC). Include all that apply and associated square footage for each classification:**

- ☐ **Factory Group F-1 (Moderate-hazard)** _____ sq ft
- ☐ **Factory Group F-2 (Low-hazard)** _____ sq ft
- ☐ **Storage Group S-1 (Moderate-hazard)** _____ sq ft
- ☐ **Storage Group S-2 (Low-hazard)** _____ sq ft
- ☐ **Business Group B** _____ sq ft
- ☐ **High-Hazard Group H*** _____ sq ft
- ☐ **Other _____** _____ sq ft
- ☐ **Other _____** _____ sq ft

If Use and Occupancy Classification is High-Hazard Group H please provide a detailed written narrative that explains the specific use, quantity of storage and handling of the high hazard materials along with appropriate MSSD sheets with this application.

PUBLIC SERVICES:

1. **Is the property serviced by Public Sanitary Sewer?** ☑ **YES** ☐ **NO**
   - **If no,** the closest public sewer is located at _____
2. **Is the property serviced by Public Water?** ☑ **YES** ☐ **NO**
   - **If no,** the closest public water is located at _____
3. **Maximum number of gallons/minute of water expected to be used per day is:** _12gpm____.

THIS APPLICATION IS FOR A: (check one)

- ☐ **Preliminary Site and Operational Plan:** An applicant may apply for preliminary site and operational plan approval in connection with an erosion control permit application for early mass grading, or in connection with an early foundation permit, or for other good cause shown
- ☑ **New Site and Operational Plan**
- ☐ **Amendment to an existing Site and Operational Plan**
  - **Date of initial site and operational plan approval: _____**
  - **Date of each approved amendment: _____**

SECTION 2: EXISTING USES AND BUILDINGS ON THE SITE

Are there any existing buildings on the site? ☑ **YES** ☐ **NO**

- **If yes**, provide an attachment that explains the current uses on the property and current uses in each building and if the use(s) is proposed to continue; and the gross floor area and height of each building.
- **If no**, what is the current use of the property? _____

SECTION 3: PHOTOGRAPHS

Standard-sized photographs (not Polaroid) showing all aspects of the site (e.g. locations of proposed improvements, bodies of navigable water, wetlands, wooded areas, etc.) and of the exterior of structures or other site improvements, together with a statement regarding each photograph, which includes the date the photograph was taken, the location from which it was taken, the direction in which the camera was pointed, and a description of what is shown in the photograph. With respect to all existing signs, the applicant shall file photographs of all existing signs and shall specify in the written statement accompanying each such photograph and show the dimensions of such sign. Digital images are acceptable.

SECTION 4: CONDITIONAL USE

1. **Does the proposed project require a Conditional Use Permit? ☐ YES ☑ NO**
   - **If no** then skip to Section 5.
   - **If yes**, then continue with this Section.
2. **Are you amending an existing Conditional Use Permit? ☐ YES ☑ NO**
   - **If yes**, provide a copy of the Conditional Use Grant Document you are proposing to amend.
   - **If no**, continue with this Section.
3. If you answered **YES** to either question 1 or 2 above then this application shall include information as to how the proposed project will not impair an adequate supply of light and air to adjacent properties; increase danger of fire; cause traffic congestion or traffic circulation problems; create storm water flooding or drainage; create obnoxious odors, problems or otherwise endanger the public health, safety or welfare; will not hinder, harm or distract the provision of public services; and that the proposed project is not inherently inconsistent with either the district in which it is located or adjoining districts or neighborhoods as required pursuant to the Village Zoning Ordinance.

SECTION 5: NON-CONFORMING USE

1. **Is any use on the site a nonconforming use? ☐ YES ☑ NO**
   - **If no**, then skip to Section 7.
   - **If yes**, then continue with this section.
2. If you answered **YES** to question 1 above, prima facie proof of each element of legal nonconforming use status shall be submitted to the Village with this application (i.e. that the nonconforming use was legal in its inception, that the use was active and actual and not merely casual, occasional, incidental or accessory when it became nonconforming, that the use has been continuous with no gap of 12 or more consecutive months since it became nonconforming, that no building or structure housing the nonconforming use has been structurally repaired or altered to the extent of fifty (50) percent or more of its assessed value since the use became nonconforming, and that the use has not been changed in nature or physically extended or expanded since becoming nonconforming).

SECTION 6: PERFORMANCE STANDARDS

Pursuant to the Village Zoning Ordinance, any application for a permit under this ordinance or any use subject to the regulations and standards set forth in the Village Zoning Ordinance shall be accompanied by a sworn statement by the owner of the subject property that said property and use will be operated in accordance with the performance standards set forth in Section 420-38 of the Village Ordinance. Continued compliance with the regulations and standards is required. Violations of such standards shall remedied as required by the Village Zoning Ordinance.

No land or building in any district shall be operated in such a manner so as to create any dangerous, injurious, noxious or otherwise objectionable fire, explosive or other hazard; noise or vibration, smoke, dust, dirt or other form of air pollution; water pollution; electrical, radioactive or other disturbances; glare; or other substance, condition or element (referred to herein as "dangerous or objectionable elements") in such amount as to adversely affect the surrounding area or premises; provided that any use permitted by this ordinance may be undertaken and maintained if it conforms to the regulations of this subsection limiting dangerous and objectionable elements at the specified point or points of the determination of their existence.

The Village may require additional information be submitted to ensure that the Village Performance Standards are being met.

SECTION 7: PLAN COMPONENTS

The application shall include a list of all documents, materials or information that are attached to and a part of the application form. Submit eight (8) full-sized and one (1) set reduced to 11" x 17" of all plans and other attachments shall be included as part of this application, except if a component has been waived or deferred in writing by the Village Zoning Administrator. **For specific details related to each of the required information and plans see the attachment entitled "*Plan Components and Related Standards*" in Section 420-57 of the Village Zoning Ordinance.**

- ❑ Application—Applicant, Site, Use, Project and Plan Information
- ❑ Application fee
- ❑ Operational plan
- ❑ Title sheet
- ❑ Survey
- ❑ Site plan
- ❑ Grading and drainage plan
- ❑ Building and fire protection plans
- ❑ Lighting plan
- ❑ Landscape and open space plan
- ❑ Signage plan
- ❑ Industrial/commercial waste survey
- ❑ Performance standards compliance
- ❑ Additional requirements, as determined by the Village Zoning Administrator, other appropriate Village staff members, or the Village Plan Commission, as appropriate.

Two or more plans may be combined, provided that all of the information submitted on the combined plan is clearly legible, but in no case shall the combined plans fail to show any of the information required for each individual plan as described below, unless such information is waived or deferred pursuant to the Zoning Ordinance.

SECTION 8: SIGNATURES

I,(We), hereby certify that all the above statements and all attachments submitted herewith are true and correct to the best of my knowledge. In addition I, (we) understand the requirements and procedures for Site and Operational Plan/Conditional Use Permit approval.

PROPERTY OWNER:

Name: VILLAGE OF PLEASANT PRAIRIE
(Please Print)
Signature:
Address: 9915 39th Avenue
Pleasant Prairie, WI 53158
(City) (State) (Zip)
Phone: 262-948-8951
Fax: 262-925-6796
E-mail: engineering@plprairie.com
Date April 7, 2016

APPLICANT:

Name: Matthew J. Fineour
(Please Print)
Signature:
Address: 9915 39th Avenue
Pleasant Prairie, WI 53158
(City) (State) (Zip)
Phone: 262-925-6778
Fax: 262-925-6796
E-mail: mfineour@plprairiewi.com
Date: April 7, 2016

Is the applicant the owner of the property? ☐ **YES** ☐ **NO**

If no, then either proof of the applicant's legal interest in the subject real property (e.g. accepted offer to purchase, lease, etc., which may be appropriately redacted to preserve confidential information) or written authorization signed by the owner for the applicant to act as the owner's agent in connection with the application shall be included with the application.

DEVELOPER (if Applicable)

Name: _____
(Please Print)
Signature: _____
Address: _____
_____
(City) (State) (Zip)
Phone: _____
Fax: _____
E-mail: _____
Date _____

USER OR OCCUPANT OF SITE:

Name: _____
(Please Print)
Signature: _____
Address: _____
_____
(City) (State) (Zip)
Phone: _____
Fax: _____
E-mail: _____
Date: _____

LANDMARK TITLE CORPORATION
Title Insurance • Escrows • Closing Service • Construction Escrow/Inspection Service
3501 - 30th Avenue PO Box 725 Kenosha, WI 53141-0725 262-658-2066 Fax 262-658-0913

January 18, 2016

R.A. Smith National, Inc.
16745 West Bluemound Road
Brookfield WI 53005

LEGAL DESCRIPTION

Attn: John Casucci

Re: Our file no.: LLR-141517

Owner: The Town of Pleasant Prairie, now know as The Village of Pleasant Prairie, a municipal corporation

Legal Description: Part of the Northwest Quarter (1/4) of Section Fifteen (15) and part of the Northeast Quarter (1/4) of Section Sixteen (16), in Town One (1) North, Range Twenty-two (22) East of the Fourth Principal Meridian, more particularly described as follows: Beginning at the Northwest corner of the *Northwest* Quarter (1/4) of Section Fifteen (15); thence South 89 degrees 43 minutes 01 seconds East along the North line of said quarter (1/4) section 644.20 feet to the center of State Trunk Highway "31" (Green Bay Road); thence South 2 degrees 18 minutes 41 seconds West along the center of said highway 272.25 feet; thence North 89 degrees 43 minutes 01 seconds West parallel to the North line of said quarter (1/4) section 640.85 feet to the West line of said quarter (1/4) section and the East line of the aforesaid Northeast quarter (1/4) of Section Sixteen (16); thence South 3 degrees 01 minutes 39 seconds East along said East line 151.26 feet; thence South 88 degrees 01 minutes 37 seconds West parallel to the North line of the Northeast quarter (1/4) of said Section Sixteen (16), 848.97 feet to the East right of way line of the Chicago & Northwestern Railway Company; thence North 1 degree 11 minutes 06 seconds West along said East line 423.73 feet to the North line of the Northeast Quarter (1/4) of said Section Sixteen (16); thence North 88 degrees 01 minutes 37 seconds East along said North line 835.34 feet to the point of beginning, lying and being in the Village of Pleasant Prairie, County of Kenosha and State of Wisconsin. Excepting therefrom land conveyed to the State of Wisconsin Department of Transportation, recorded in the office of the Register of Deeds for Kenosha County, Wisconsin on December 6, 1991 in Volume 1475 of Records at pages 555-56, as Document No. 880961, described as follows: That part of the Northwest 1/4 of Section 15, Township 1 North, Range 22 East, described as: Begin at a point in the North line of the Northwest 1/4 which is 555.13 feet South 89 degrees 43 minutes 00 seconds East of the Northwest corner of the North West 1/4 ; thence South 7 degrees 11 minutes 57 seconds West 273.93 feet to the south property line of the owner; thence South 89 degrees 43 minutes 00 seconds East along said line 132.54 feet to the centerline of the existing S.T.H. 31 and the east property line of the owner; thence northerly along said line to the north line of the Northwest ¼; thence North 89 degrees 43 minutes 00 seconds West along said line 95.27 feet to the point of beginning.

Also,

That part of the Northwest ¼ of Section 15, and the Northeast ¼ of Section 16, Township 1 North, Range 22 East, lying and being in the Village of Pleasant Prairie, County of Kenosha and State of Wisconsin, described as

LEGAL CONTINUED
ON NEXT PAGE

follows: From a point in the north line of said Northwest ¼ which is 625.64 feet South 89 degrees 43 minutes East of the northwest corner of said Northwest ¼, thence South 7 degrees 11 minutes 57 seconds West 273.93 feet along the centerline of S.T.H. 31 to the point of beginning of this description; thence South 7 degrees 11 minutes 57 seconds West 184.78 feet along said centerline to a point of curve; thence southerly 544.36 feet along the arc of a 2864.79 foot radius curve concave to the east having a chord of South 01 degrees 56 minutes 00 seconds West 543.54 feet; thence South 3 degrees 41 minutes 16 seconds East 1224.98 feet along said centerline; thence South 2 degrees 45 minutes 01 seconds East 101.97 feet along said centerline to the north line of lands owned by the Wisconsin Electric Power Company; thence South 89 degrees 43 minutes 58 seconds West 1420.45 feet along said North line to a point in the East line of the railroad; thence Northerly 1902.66 feet along the east line of the railroad to a point 423.73 feet South 1 degrees 11 minutes 05 seconds East of the North line of the Northeast ¼ of Section 16; thence South 88 degrees 01 minutes 37 seconds *East* 848.97 feet parallel with the North line of said Northeast ¼ to a point in the West line of said Northwest ¼ of Section 15; thence North 03 degrees 01 minutes 39 seconds West 151.21 feet along said West line; thence South 89 degrees 43 minutes East 578.82 feet to the point of beginning. Except the East 70 feet thereof.

Address: 8600 Green Bay Road
Tax Key No.: 92-4-122-152-0301

Dear John:

Pursuant to your request, we have checked the Register of Deeds for Kenosha County, Wisconsin, concerning the above captioned case, and find the following: (100 Year Search)

Record title is vested in:

The Town of Pleasant Prairie, now know as The Village of Pleasant Prairie, a municipal corporation

Subject to the following:

Warranty Deed from E. J. Bolding and Rosella M. Bolding, his wife, to the Town of Pleasant Prairie, a Wisconsin Township, dated January 7, 1988 and recorded in the office of the Register of Deeds for Kenosha County, Wisconsin on January 25, 1988 in Volume 1300 of Records at page 351, as Document No. 794909. (Vesting Deed)

Quit Claim Deed from the State of Wisconsin, Department of Transportation, to the Village of Pleasant Prairie, a municipal corporation, signed by the Governor June 28, 1993 and dated July 1, 1993 and recorded in said Register's office on July 9, 1993 in Volume 1602 of Records at pages 638-39, as Document No. 932289 (Vesting Deed)

Agreement by and between Margaret W. Hale and Wesley H. Hale, parties of the first part, and Carl Krahn and Elsie Krahn, parties of the second part, dated April 25, 1945 and recorded in the office of the Register of Deeds for Kenosha County, Wisconsin on July 18, 1950 in Volume 342 of Deeds on pages 254-57, as Document No. 322709.

Agreement by and between Wesley H. Hale and Margaret W. Hale, husband and wife, parties of the first part, and David Hale and Helen Hale, husband and wife, parties of the second part, dated August 19, 1950 and recorded in said Register's office on August 22, 1950 in Volume 344 of Deeds on pages 22-25, as Document NO. 323896.

Agreement by and between Margaret W. Hale and Wesley H. Hale, wife and husband, parties of the first part, and Robert F. Alverson and Blanche Alverson, husband and wife, dated January 18, 1951 and recorded in said Register's office on January 20, 1951 in Volume 349 of Deeds on pages 381-86, as Document No. 327748.

New DPW Equipment Storage Building – Prange Center
8600 Green Bay Road, Pleasant Prairie, WI
Operational Plan

1. **Narrative / description:**
   The Village is constructing a new 65,664 square foot storage building for public works equipment at the Roger Prange Center. The new storage building will house equipment and vehicles that are currently stored outside due to lack of space in existing roofed storage buildings. These include snow plow trucks, plow blades, light duty vehicles, and other seasonal and general public works equipment. In conjunction with the new storage building, Public Works will be relocating the compost site operations to the 73-1 site located off of 128th Street.

2. **Gross floor area of existing building(s) and /or proposed addition:**
   The property currently contains several structures as listed below.

   Prange Building (Public Works Department / Police Station) = 23,400 sq.ft.
   Prange Building (Garage) = 19,400 sq.ft.
   North Storage Facility = 7,800 sq.ft.
   Fuel Bay = 1,800 sq.ft.
   Salt Shed = 9,500 sq.ft.

   New DPW Equipment Storage Building = 65,664 sq.ft.

3. **Hours of operation:**
   Hours of operation will correspond with typical public works operations Monday-Friday 6:30a.m to 3:30 p.m. and as needed for Village services.

4. **Anticipated Startup and total number of full-and part time employees:**
   Not Applicable: The new building is for equipment storage and will not have office(s) or employee work stations.

5. **Anticipated maximum number of employees on site at any time of the day.**
   Not Applicable: The Prange Center employs many public works, police, and IT employees. The new DPW storage building will not change the number of employees at the site.

6. **Number of anticipated students, participants or persons to be gathered in places of assembly, if applicable.**
   Not Applicable.

7. **Number of parking spaces required per this chapter and the method used to calculate such number. (Required- Government Building): 1 space per 200 sq.ft. of**

gross floor area used by the public and 1 space per 600 sq.ft. of gross floor area not used by the public)
Required Spaces: Total Gross Area of Prange Building (Public Works and Police) = 23,400 square feet / 600 sq.ft. = 39 spaces.

Total current outside parking spaces: 151 spaces + 3 handicap spaces.

8. **Number of existing and proposed on-site parking spaces to be provided (conventional spaces and handicap spaces).**

   12 outside parking spaces will be eliminated to accommodate the required 30-foot fire lane in front of the new storage building.

   Total proposed outside parking spaces: 139 spaces + 3 handicap spaces.

9. **Anticipated daily average and maximum potential number of automobile trips to and from the site (excluding trucks):** 50

10. **Anticipated daily average and maximum potential number of truck trips to and from the site:** 100

11. **Types of goods and materials to be made, used, or stored on site:**
    Not Applicable: No goods and materials will be made, used, or stored on site.

12. **Types of equipment or machinery to be used on site:**
    Public works equipment (i.e. light and heavy vehicles and seasonal equipment such as mowers and snow plows etc.)

13. **Types of solid or liquid waste materials which will require disposal.**
    None.

14. **Method of handling, storing and disposing of solid or liquid waste materials.** Not Applicable; See number 13 above.

15. **Methods of providing site and building security other than the Village Police Department.** All doors will have security card access and the site will be part of the overall Prange security system.

16. **Description of the methods to be used to maintain all buildings, structures, site improvements and sites in a safe, structurally sound, neat, well cared for and attractive condition.** The Public Works Department will monitor and maintain the site on a regular basis.

17. Description of potential adverse impacts to neighboring properties for public facilities and measures to be taken to eliminate or minimize such adverse impacts.
No potential adverse impacts are expected.

18. A list of all local, State, and Federal permits or approvals required for the project:

- Local: Erosion Control Permit, Building Permit, Stipulated Shoreland Permit
- State: WDNR WRAPP-NOI, DSPS: Exterior plumbing, building, footings and foundation.
- Federal: CLOMR and LOMR for floodplain boundary adjustment.

19. Proposed zoning text amendment(s) for PUD

a. Chapter 420-126 Section I(5)(e)

Existing text - Wetland setback: 25 feet minimum
Proposed amendment – Wetland setback: 6 feet minimum

PRANGE CENTER BUILDING LOCATIONS

0 100 200 Feet

Department of Public Works
Storage Facility
Existing Site Picture 1

Project Site Facing Northwest

Department of Public Works
Storage Facility
Existing Site Picture 2

Project Site Facing North – Existing Parking Lot

Department of Public Works
Storage Facility
Existing Site Picture 3

Project Site Facing Northwest

Department of Public Works
Storage Facility
Existing Site Picture 4

Project Site Facing South

Department of Public Works
Storage Facility
Existing Site Picture 5

Project Site Facing South

Department of Public Works
Storage Facility
Existing Site Picture 6

Project Site Facing Southeast

Department of Public Works
Storage Facility
Existing Site Picture 7

Location: Greenbay Road By Existing Detention Basin Northeast Towards Project Site

Department of Public Works
Storage Facility
Existing Site Picture 8

Location: Greenbay Road by Existing Detention Basin Facing Northwest Towards Project Site

Department of Public Works
Storage Facility
Existing Site Picture 9

Unhoused DPW Equipment

Department of Public Works
Storage Facility
Existing Site Picture 10

Unhoused DPW Equipment

CONSTRUCTION PLANS
FOR
NEW DPW BUILDING-PRANGE CENTER
VILLAGE OF PLEASANT PRAIRIE, WI

VICINITY MAP

N

PLAN INDEX

SHEET NO.	DESCRIPTION
C000	COVER SHEET
C100	DEMOLITION PLAN
C200	DIMENSIONED SITE PLAN
C300	GRADING, EROSION CONTROL & PAVING PLAN
C400	UTILITY PLAN
C500	EROSION CONTROL DETAILS
C501	SITE & UTILITY DETAILS
C600	SPECIFICATIONS

OWNER:

VILLAGE OF PLEASANT PRAIRIE
9915 39TH AVENUE
PLEASANT PRAIRIE, WI 53158-6504
PH.: 262-694-1400
FAX: 262-694-4734, E-MAIL: VILLAGEADMIN@PLPRAIRIE.COM

ENGINEER:

R.A. Smith National
Beyond Surveying and Engineering
www.rasmithnational.com

16745 W. BLUEMOUND ROAD
BROOKFIELD, WI 53005-5938
PH: (262) 781-8466

BENCHMARKS:

CONCRETE MONUMENT WITH BRASS CAP MARKING THE NORTH 1/4 CORNER OF SECTION 15, T 1 N, R 22 E, ELEVATION (NGVD 29 DATUM) ELEV.=681.99

DOOR SILL AT SOUTHEAST DOOR ON SOUTHERLY SIDE OF BUILDING ELEV.=685.98

DOOR SILL AT WESTERLY DOOR ON SOUTH SIDE OF BUILDING ELEV.=685.52

PLAN DATE: MARCH 25, 2016

REVISIONS	ISSUE DATE	SHEET NO.'S	ISSUED FOR:
-	--	--	--

DATE | DESCRIPTION

R.A. Smith National
Beyond Surveying and Engineering
www.rasmithnational.com

NEW DPW BUILDING-PRANGE CENTER
VILLAGE OF PLEASANT PRAIRIE, WI

COVER SHEET

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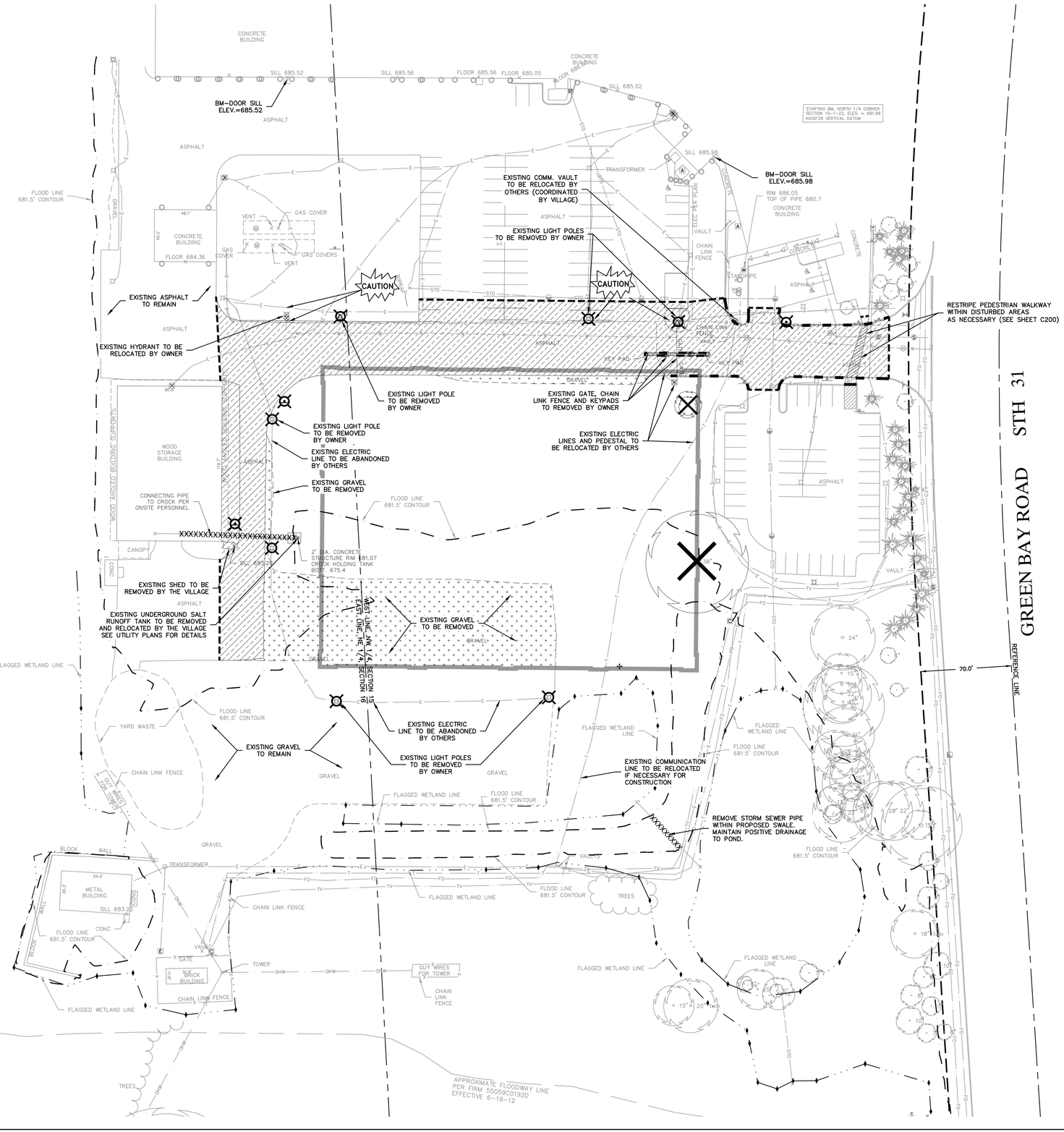
R.A. Smith National, Inc.

DATE: 03/25/16
SCALE: N.T.S.
JOB NO. 1150610
PROJECT MANAGER: KRISTEN J. BELAN, P.E.
DESIGNED BY: CLR
CHECKED BY: RJY

SHEET NUMBER
C000



LEGEND

- PROPOSED PROPERTY LINE
- EXISTING CONCRETE PAVEMENT TO BE REMOVED
- EXISTING ASPHALT PAVEMENT (TO BE REMOVED, PULVERIZED AND REUSED ON-SITE)
- EXISTING GRAVEL TO BE REMOVED
- EXISTING TREE TO BE REMOVED
- EXISTING LIGHT POLE AND BASE, POWER POLE, BOLLARD AND/OR SIGN TO BE REMOVED OR RELOCATED
- XXXXXXXXXXXXXX EXISTING UTILITIES TO BE REMOVED
- PROPOSED BUILDING FOOTPRINT
- EXISTING CURB AND GUTTER TO BE REMOVED. SAWCUT TO ASSURE CLEAN FIT
- SAWCUT EXISTING PAVEMENT

TOPOGRAPHIC SURVEY PROVIDED R.A. SMITH NATIONAL, DATED DECEMBER 09, 2015.

THE LOCATIONS OF EXISTING UTILITY INSTALLATIONS AS SHOWN ON THIS PLAN ARE APPROXIMATE. THERE MAY BE OTHER UNDERGROUND UTILITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN.

CONTRACTOR SHALL PROVIDE EROSION CONTROL FACILITIES IN ACCORDANCE WITH THE VILLAGE OF PLEASANT PRAIRIE EROSION CONTROL ORDINANCE, THE WISCONSIN DNR STORMWATER CONSTRUCTION AND POST CONSTRUCTION TECHNICAL STANDARDS, WDNR PERMIT CONDITIONS, AND THESE DOCUMENTS; THE MOST STRINGENT TO APPLY.

R.A.SMITH NATIONAL ASSUMES NO RESPONSIBILITY FOR DAMAGES, LIABILITY OR COSTS RESULTING FROM CHANGES OR ALTERATIONS MADE TO THIS PLAN WITHOUT THE EXPRESSED WRITTEN CONSENT OF R.A.SMITH NATIONAL

DIGGERS HOTLINE
Toll Free (800) 242-8511
Milwaukee Area (414) 259-1181
Hearing Impaired TDD (800) 542-2289
www.DiggersHotline.com

DATE	DESCRIPTION

R.A. Smith National
Beyond Surveying and Engineering
www.rasmithnational.com

NEW DPW BUILDING-PRANGE CENTER
VILLAGE OF PLEASANT PRAIRIE, WI

DEMOLITION PLAN

© COPYRIGHT 2016
R.A. Smith National, Inc.

DATE: 03/25/16
SCALE: 1" = 40'
JOB NO. 1150610
PROJECT MANAGER: KRISTEN J. BELAN, P.E.
DESIGNED BY: CLR
CHECKED BY: RJY

SHEET NUMBER
C100

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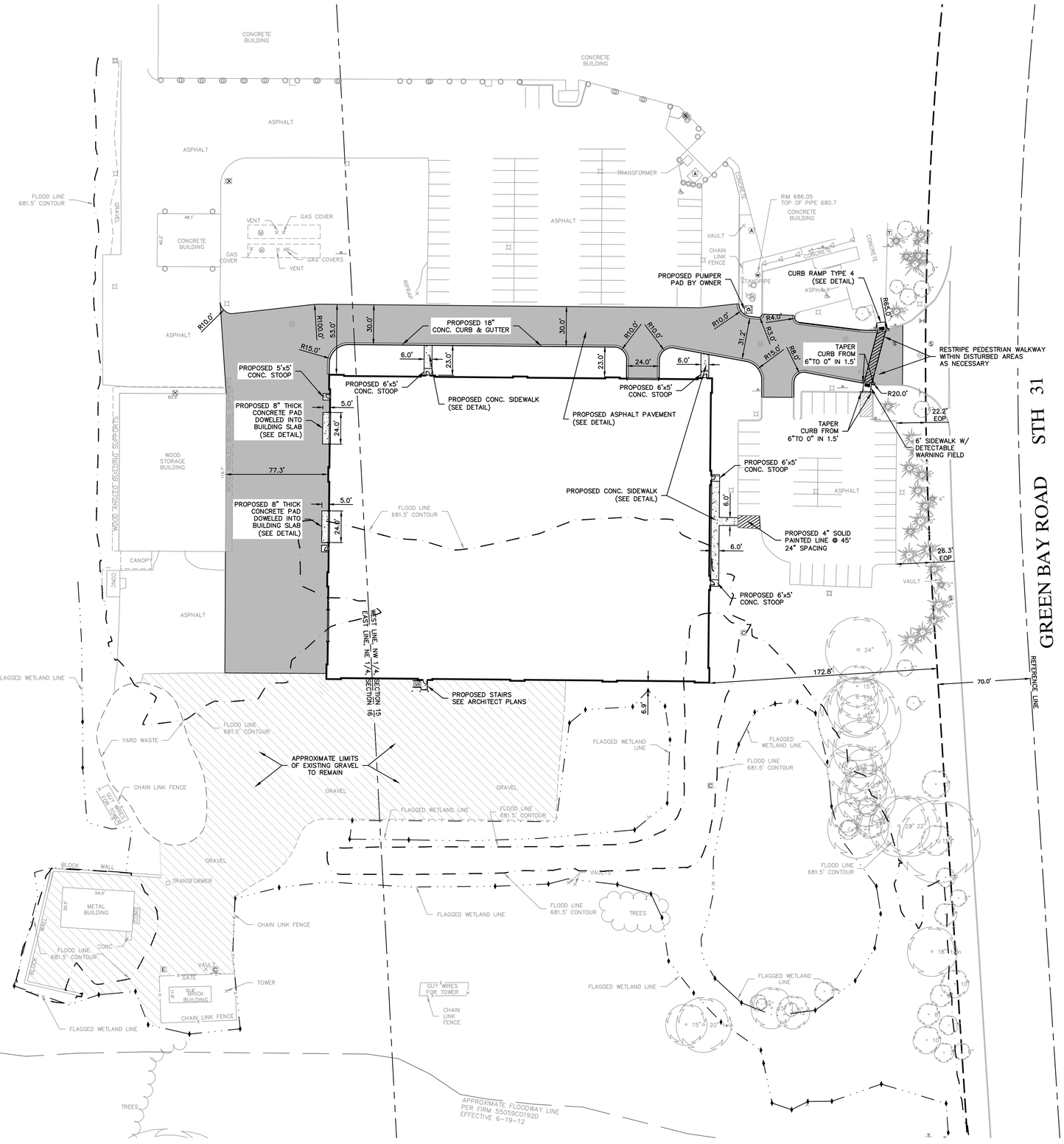


N

GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)

LEGEND

- PROPERTY LINE
- PROPOSED BUILDING
- EXISTING CURB & GUTTER
- PROPOSED CURB & GUTTER
- PROPOSED HEAVY DUTY BITUMINOUS PAVEMENT
- PROPOSED CONCRETE PAVEMENT
- APPROXIMATE LIMITS OF EXISTING GRAVEL TO REMAIN

TOPOGRAPHIC SURVEY PROVIDED R.A. SMITH NATIONAL, DATED DECEMBER 09, 2015.

ALL CURB IS HIGH SIDE UNLESS OTHERWSE NOTED.

ALL DIMENSIONS SHOWN ARE TO PROPERTY LINES, EXTERIOR BUILDING WALLS, OR FACE OF CURB UNLESS OTHERWSE NOTED.

PARKING STALL MARKING SHALL BE 4.0" WHITE PAINT (TYP.)

THE LOCATIONS OF EXISTING UTILITY INSTALLATIONS AS SHOWN ON THIS PLAN ARE APPROXIMATE. THERE MAY BE OTHER UNDERGROUND UTILITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN.

CONTRACTOR SHALL PROVIDE EROSION CONTROL FACILITIES IN ACCORDANCE WITH THE VILLAGE OF PLEASANT PRAIRIE EROSION CONTROL ORDINANCE, THE WISCONSIN DNR STORMWATER CONSTRUCTION AND POST CONSTRUCTION TECHNICAL STANDARDS, WDNR PERMIT CONDITIONS, AND THESE DOCUMENTS; THE MOST STRINGENT TO APPLY.

R.A.SMITH NATIONAL ASSUMES NO RESPONSIBILITY FOR DAMAGES, LIABILITY OR COSTS RESULTING FROM CHANGES OR ALTERATIONS MADE TO THIS PLAN WITHOUT THE EXPRESSED WRITTEN CONSENT OF R.A.SMITH NATIONAL

DIGGERS HOTLINE
Toll Free (800) 242-8511
Milwaukee Area (414) 259-1181
Hearing Impaired TDD (800) 542-2289
www.DiggersHotline.com

DATE	DESCRIPTION

R.A. Smith National
Beyond Surveying and Engineering
www.rasmithnational.com

NEW DPW BUILDING-PRANGE CENTER
VILLAGE OF PLEASANT PRAIRIE, WI

DIMENSIONED SITE PLAN

© COPYRIGHT 2016
R.A. Smith National, Inc.

DATE: 03/25/16

SCALE: 1" = 40'

JOB NO. 1150610

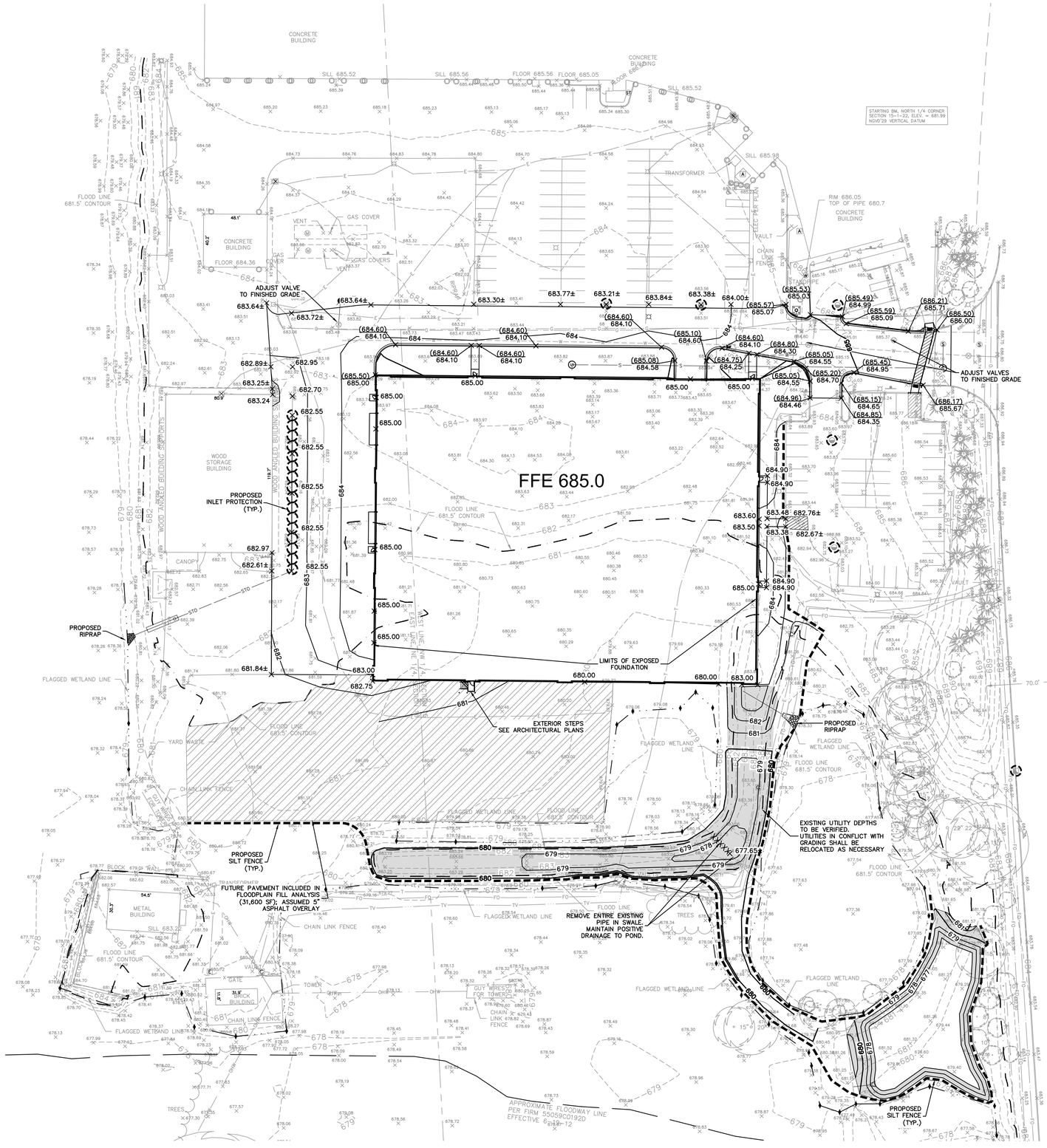
PROJECT MANAGER: KRISTEN J. BELAN, P.E.

DESIGNED BY: RJW

CHECKED BY: RJY

SHEET NUMBER

C200



N

GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)

LEGEND

- PROPOSED PROPERTY LINE
- EXISTING SPOT ELEVATION
- EXISTING CONTOURS
- PROPOSED CONTOURS
- PROPOSED SPOT GRADES
- PROPOSED TOP OF CURB GRADE
- PROPOSED STORM INLETS / MANHOLES
- PROPOSED SILT FENCE
- PROPOSED INLET PROTECTION (TYPE A, B & C), SEE DETAIL SHEET
- EROSION MAT
- EXISTING FLOOD PLAIN LINE
- EXISTING WETLAND LINE
- EXISTING SANITARY SEWER LINE
- EXISTING STORM SEWER LINE
- EXISTING WATER MAIN LINE
- EXISTING ELECTRICAL LINE
- EXISTING LIGHT POLE WIRING
- EXISTING TELEPHONE LINE
- EXISTING FIBER OPTIC LINE
- EXISTING GAS LINE
- EXISTING HYDRANT
- EXISTING GATE VALVE
- EXISTING STORM SEWER MANHOLE
- EXISTING STORM SEWER INLETS
- EXISTING SANITARY SEWER MANHOLE
- EXITING LIGHT POLES
- EXISTING ELEC. AND TELE. PEDESTALS
- EXISTING GAS METER AND VALVES

FLOODPLAIN CALCS

1,500 CY APPROXIMATE FLOODPLAIN FILL VOLUME (FLOODPLAIN VOL. REMOVED)

1,615 CY APPROXIMATE FLOODPLAIN CUT VOLUME (FLOODPLAIN VOL. CREATED)

WETLANDS ARE TO BE PROTECTED. ABSOLUTELY NO WETLANDS ARE TO BE DISTURBED.

TOPOGRAPHIC SURVEY PROVIDED R.A. SMITH NATIONAL, DATED DECEMBER 09, 2015.

THE LOCATIONS OF EXISTING UTILITY INSTALLATIONS AS SHOWN ON THIS PLAN ARE APPROXIMATE. THERE MAY BE OTHER UNDERGROUND UTILITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN.

CONTRACTOR SHALL PROVIDE EROSION CONTROL FACILITIES IN ACCORDANCE WITH THE VILLAGE OF PLEASANT PRAIRIE EROSION CONTROL ORDINANCE, THE WISCONSIN DNR STORMWATER CONSTRUCTION AND POST CONSTRUCTION TECHNICAL STANDARDS, WDNR PERMIT CONDITIONS, AND THESE DOCUMENTS; THE MOST STRINGENT TO APPLY.

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DATE	DESCRIPTION

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Beyond Surveying and Engineering
www.rasmithnational.com

NEW DPW BUILDING-PRANGE CENTER
VILLAGE OF PLEASANT PRAIRIE, WI

GRADING, EROSION CONTROL & PAVING PLAN

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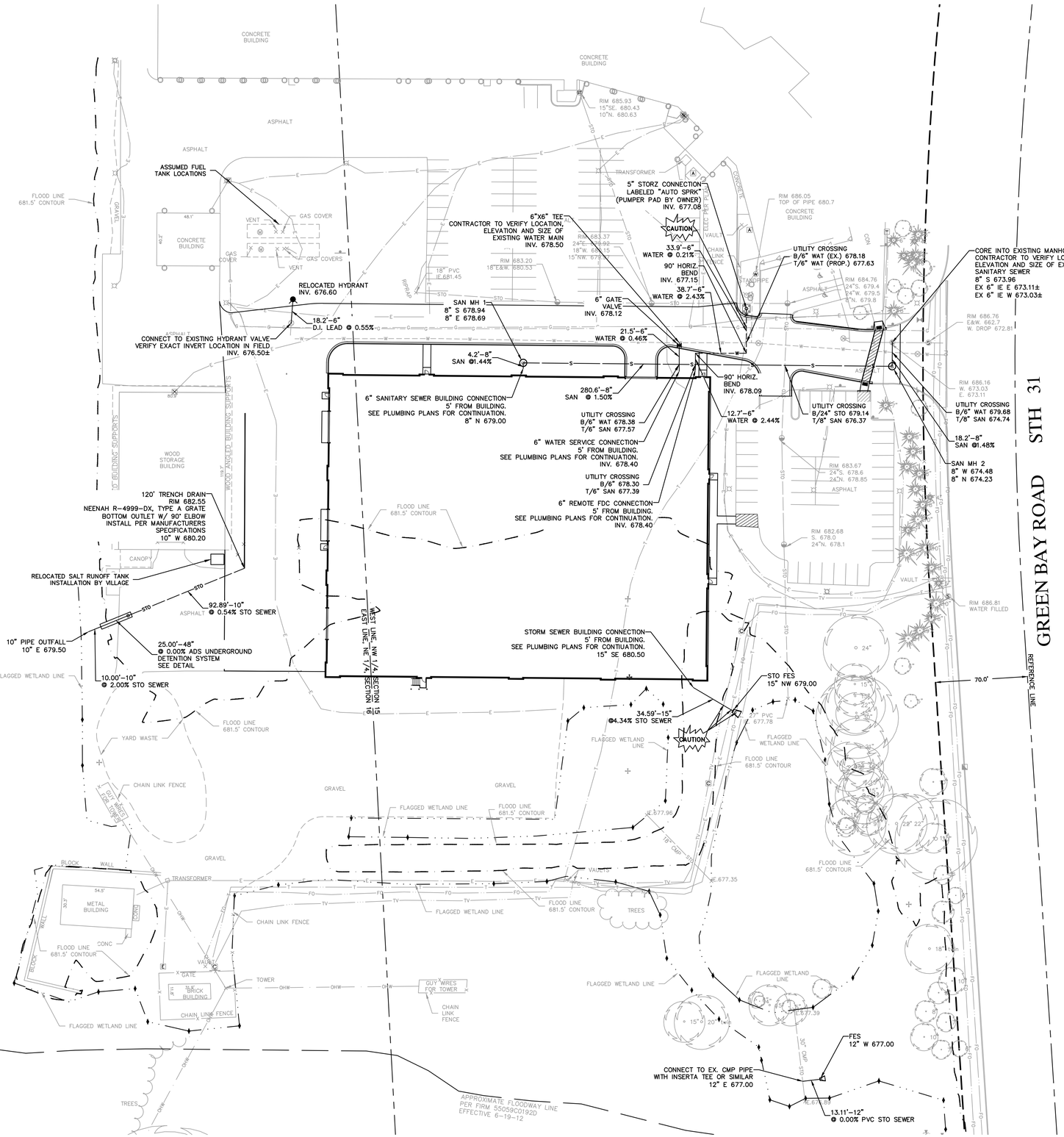
R.A. Smith National, Inc.

DATE: 03/25/16
SCALE: 1" = 40'
JOB NO. 1150610
PROJECT MANAGER: KRISTEN J. BELAN, P.E.
DESIGNED BY: CLR
CHECKED BY: RJY

SHEET NUMBER
C300



GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)

LEGEND

- PROPOSED PROPERTY LINE
- PROPOSED BUILDING
- EXISTING CURB
- PROPOSED 18" CURB & GUTTER
- PROPOSED SANITARY SEWER LINE
- PROPOSED STORM SEWER LINE
- PROPOSED STORM CATCH BASIN
- PROPOSED MANHOLE
- PROPOSED WATER MAIN LINE
- PROPOSED HYDRANT
- PROPOSED VALVE
- PROPOSED TELEPHONE
- PROPOSED GAS LINE
- PROPOSED ELECTRICAL LINE
- EXISTING SANITARY SEWER LINE
- EXISTING STORM SEWER LINE
- EXISTING WATER MAIN LINE
- EXISTING ELECTRICAL LINE
- EXISTING LIGHT POLE WIRING
- EXISTING TELEPHONE LINE
- EXISTING FIBER OPTIC LINE
- EXISTING GAS LINE
- EXISTING HYDRANT
- EXISTING GATE VALVE
- EXISTING STORM SEWER MANHOLE
- EXISTING STORM SEWER INLETS
- EXISTING SANITARY SEWER MANHOLE
- EXISTING LIGHT POLES
- EXISTING ELEC. AND TELE. PEDESTALS
- EXISTING GAS METER AND VALVES

TOPOGRAPHIC SURVEY PROVIDED R.A. SMITH NATIONAL, DATED DECEMBER 09, 2015.

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DATE	DESCRIPTION

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NEW DPW BUILDING-PRANGE CENTER
VILLAGE OF PLEASANT PRAIRIE, WI

UTILITY PLAN

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DATE: 03/25/16
SCALE: 1" = 40'
JOB NO. 1150610
PROJECT MANAGER: KRISTEN J. BELAN, P.E.
DESIGNED BY: CLR
CHECKED BY: RJY

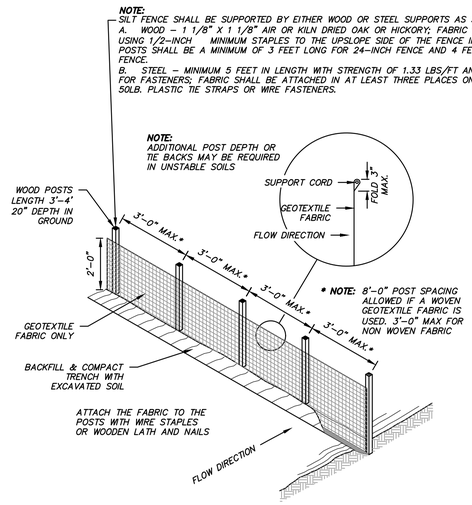
SHEET NUMBER
C400

NOTES:

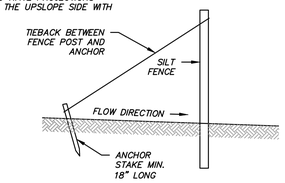
1. SILT FENCE INSTALLATION AND MATERIALS SHALL CONFORM TO WDNR CONSERVATION STANDARD 1056
2. SILT FENCE SHALL BE PLACED ON THE CONTOUR AND NOT PERPENDICULAR TO THE CONTOUR. THE ENDS SHALL BE EXTENDED UPSLOPE TO PREVENT WATER FROM FLOWING AROUND THE ENDS OF THE FENCE.
3. WHEN SILT FENCE IS INSTALLED ON A SLOPE, THE PARALLEL SPACING SHALL NOT EXCEED THE REQUIREMENTS IN THE TABLE BELOW:

SLOPE	FENCE SPACING
< 2%	100 FEET
2 TO 5%	75 FEET
5 TO 10%	50 FEET
10 TO 33%	25 FEET
> 33%	20 FEET

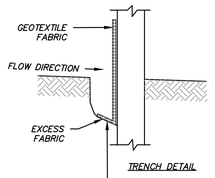
4. INSTALLED SILT FENCES SHALL BE MINIMUM 14 INCHES HIGH AND A MAXIMUM OF 28 INCHES IN HEIGHT MEASURED FROM THE INSTALLED GROUND ELEVATION.
5. A MINIMUM OF 20 INCHES OF THE POST SHALL EXTEND INTO THE GROUND AFTER INSTALLATION.
6. SILT FENCE SHALL BE ANCHORED BY SPREADING AT LEAST 8 INCHES OF THE FABRIC IN A 4-INCH TRENCH WIDE BY 6-INCH DEEP TRENCH, OR 6-INCH V-TRENCH ON THE UPSLOPE SIDE OF THE FENCE. TRENCH SHALL BE BACKFILLED AND COMPACTED. TRENCHES SHALL NOT BE EXCAVATED WIDER THAN NECESSARY FOR PROPER INSTALLATION.
7. CONSTRUCT SILT FENCE FROM A CONTINUOUS ROLL IF POSSIBLE BY CUTTING LENGTHS TO AVOID JOINTS. IF A JOINT IS NECESSARY USE ONE OF THE FOLLOWING TWO METHODS:
   A) TWIST METHOD--OVERLAP THE END POSTS AND TWIST, OR ROTATE, AT LEAST 180 DEGREES.
   B) HOOK METHOD--HOOK THE END OF EACH SILT FENCE LENGTH.
8. SILT FENCE SHALL AT A MINIMUM BE INSPECTED WEEKLY AND WITHIN 24 HOURS AFTER EACH PRECIPITATION EVENT THAT PRODUCES 0.5 INCHES OF RAIN OR MORE DURING A 24-HOUR PERIOD.
9. DAMAGED OR DECOMPOSED FENCES, UNDERCUTTING, OR FLOW CHANNELS AROUND THE END OF BARRIERS SHALL BE REPAIRED OR CORRECTED.
10. SEDIMENT SHALL BE PROPERLY DISPOSED OF ONCE THE DEPOSITS REACH ONE HALF THE HEIGHT OF THE FENCE.
11. SILT FENCES SHALL BE REMOVED ONCE THE DISTURBED AREA IS PERMANENTLY STABILIZED AND IS NO LONGER SUSCEPTIBLE TO EROSION.



SILT FENCE DETAIL
(NOT TO SCALE)



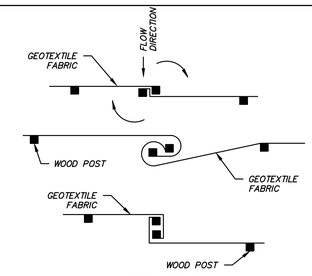
SILT FENCE TIE BACK
(WHEN ADDITIONAL SUPPORT IS REQUIRED)



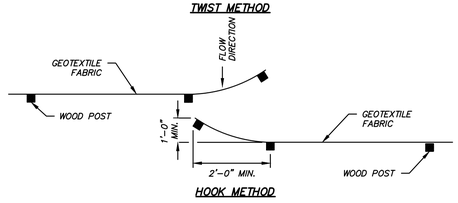
TRENCH DETAIL

NOTES:

1. TRENCH SHALL BE A MINIMUM OF 4" WIDE & 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL.

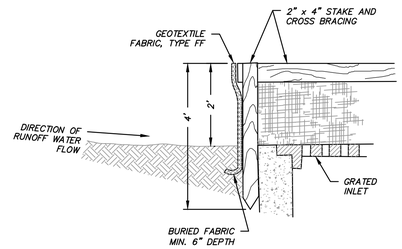


TWIST METHOD

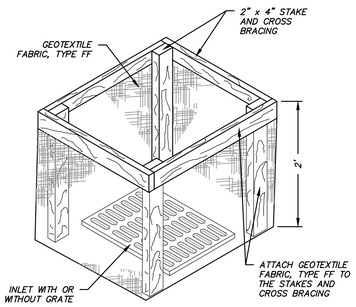


HOOK METHOD

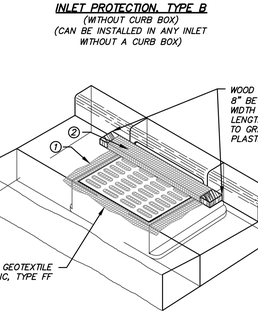
JOINING TWO LENGTHS OF SILT FENCE



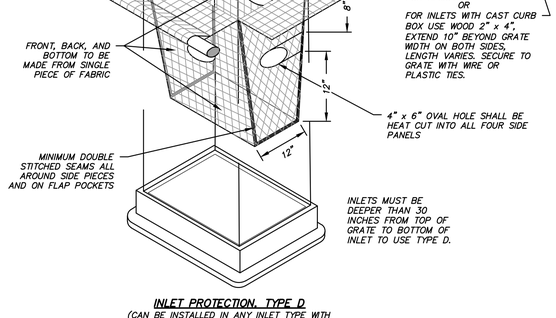
INLET PROTECTION, TYPE A



INLET PROTECTION, TYPE C
(WITH CURB BOX)



INLET PROTECTION, TYPE B
(WITHOUT CURB BOX)
(CAN BE INSTALLED IN ANY INLET WITHOUT A CURB BOX)



INLET PROTECTION, TYPE D
(CAN BE INSTALLED IN ANY INLET TYPE WITH OR WITHOUT A CURB BOX AS PER NOTE 2)

1. FINISHED SIZE, INCLUDING FLAP POCKETS WHERE REQUIRED, SHALL EXTEND A MINIMUM OF 10" AROUND THE PERIMETER TO FACILITATE MAINTENANCE OR REMOVAL.
2. FOR INLET PROTECTION, TYPE C (WITH CURB BOX), AN ADDITIONAL 18" OF FABRIC IS WRAPPED AROUND THE WOOD AND SECURED WITH STAPLES. THE WOOD SHALL NOT BLOCK THE ENTIRE HEIGHT OF THE CURB BOX OPENING.
3. FLAP POCKETS SHALL BE LARGE ENOUGH TO ACCEPT WOOD 2X4.

GENERAL NOTES:

INLET PROTECTION DEVICES SHALL CONFORM TO WDNR CONSERVATION PRACTICE STANDARD 1060 AND BE MAINTAINED OR REPLACED AT THE DIRECTION OF THE ENGINEER.

MANUFACTURED ALTERNATIVES APPROVED AND LISTED ON THE WSDOT'S EROSION CONTROL PRODUCT ACCEPTABILITY LIST MAY BE SUBSTITUTED IF ALLOWED BY ENGINEER.

TYPE A IS TO BE USED PRIOR TO PAVING AND TYPED B, C, AND D ARE TO USED AFTER PAVING IS PLACED.

TYPE A SHALL BE USED AROUND INLETS AND UNPAVED AREAS UNTIL PERMANENT STABILIZATION METHODS HAVE BEEN ESTABLISHED.

TYPE B SHALL BE USED AFTER THE CASTING AND GRATE ARE IN PLACE.

TYPE C SHALL BE USED ON STREET INLETS WITH CURB HEADS.

TYPE D SHALL BE USED IN AREAS WHERE OTHER TYPES OF INLET PROTECTION ARE INCOMPATIBLE WITH ROADWAY AND TRAFFIC CONDITIONS (I.E. POSSIBLE SAFETY HAZARD IF PONDING OCCURS.)

INSTALLATION NOTES:

TYPE B & C:
TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.

THE CONTRACTOR SHALL DEMONSTRATE A METHOD OF MAINTENANCE, USING A SEWN FLAP, HAND HOLDS OR OTHER METHOD TO PREVENT ACCUMULATED SEDIMENT FROM ENTERING THE INLET.

TYPE D:
DO NOT INSTALL INLET PROTECTION TYPE D IN INLETS SHALLOWER THAN 30", MEASURED FROM THE BOTTOM OF THE INLET TO THE TOP OF THE GRATE.

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.

THE INSTALLED BAG SHALL HAVE A MINIMUM SIDE CLEARANCE, BETWEEN THE INLET WALLS AND THE BAG, MEASURED AT THE BOTTOM OF THE OVERFLOW HOLES, OF 3", WHERE NECESSARY THE CONTRACTOR SHALL CINCH THE BAG, USING PLASTIC ZIP TIES, TO ACHIEVE THE 3" CLEARANCE. THE TIES SHALL BE PLACED AT A MAXIMUM OF 4" FROM THE BOTTOM OF THE BAG.

MAINTENANCE:

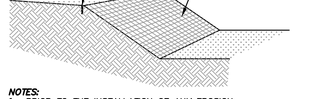
REMOVE INLET PROTECTION DEVICES ONCE THE CONTRIBUTING DRAINAGE AREA IS STABILIZED WITH APPROPRIATE VEGETATION OR IMPERVIOUS AREA.

INLET PROTECTION SHALL BE, AT A MINIMUM, INSPECTED WEEKLY AND WITHIN 24 HOURS AFTER EVERY PRECIPITATION EVENT THAT PRODUCES 0.5 INCHES OF RAIN OR MORE DURING A 24-HOUR PERIOD.

SEDIMENT DEPOSITS SHALL BE REMOVED AND THE INLET PROTECTION DEVICE RESTORED TO ITS ORIGINAL DIMENSIONS WHEN THE SEDIMENT HAS ACCUMULATED BETWEEN 1/3 TO 1/2 THE DESIGN DEPTH OF THE DEVICE, OR WHEN THE DEVICE IS NO LONGER FUNCTIONING AS DESIGNED. REMOVED SEDIMENT SHALL BE DEPOSITED IN A SUITABLE AREA AND STABILIZED.

WHEN REMOVING OR MAINTAINING INLET PROTECTION, DUE CARE SHALL BE TAKEN TO ENSURE SEDIMENT DOES NOT FALL INTO THE INLET AND IMPEDE THE INTENDED FUNCTION OF THE DEVICE. ANY MATERIAL FALLING INTO THE INLET SHALL BE REMOVED IMMEDIATELY.

STORM DRAIN INLET PROTECTION DETAILS
(NOT TO SCALE)



NOTES:

1. PRIOR TO THE INSTALLATION OF ANY EROSION CONTROL MATTING, ALL ROCKS, DIRT CLODS, STUMPS, ROOTS, TRASH AND ANY OTHER OBSTRUCTIONS WHICH WOULD PREVENT THE MAT FROM LAYING IN DIRECT CONTACT WITH THE SOIL SHALL BE REMOVED.
2. EROSION CONTROL MATTING SHALL BE INSTALLED IN ACCORDANCE WITH SECTION 628 OF THE WISCONSIN DOT STANDARD SPECIFICATIONS, DNR TECHNICAL STANDARD 1052 (NON CHANNEL APPLICATIONS), DNR TECHNICAL STANDARD 1053 (CHANNEL APPLICATIONS), AND LATEST MANUFACTURER SPECIFICATIONS, ESPECIALLY NOTING REQUIRED STAPLE PATTERNS AND ANCHOR TRENCH REQUIREMENTS.
3. INSTALLATION PROCEDURES MUST INSURE THAT THE MAT WILL REMAIN IN CONTACT WITH THE SOIL.
4. THE MATTING SHALL BE ANCHORED PER MANUFACTURER REQUIREMENTS
5. THE MATTING SHALL BE ANCHORED TO THE GROUND PER MANUFACTURER REQUIREMENTS
6. TEMPORARY EROSION CONTROL MATTING SHALL BE CLASS 1, TYPE A, NORTH AMERICAN GREEN SC150BN
7. MATTED AREAS MUST BE INSPECTED ON A WEEKLY BASIS, AND AFTER EACH SIGNIFICANT RAINFALL. BARE SPOTS, MISSING OR LOOSENED MATTING MUST BE IMMEDIATELY REPLACED AND/OR RE-ANCHORED.
8. FOR CHANNEL APPLICATIONS, EXTEND MAT UPSLOPE ONE-FOOT MINIMUM VERTICALLY FROM DITCH BOTTOM OR SIX-INCHES HIGHER THAN DESIGN FLOW, WHICHEVER IS GREATER.

EROSION CONTROL MATTING DETAIL

DATE	DESCRIPTION

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NEW DPW BUILDING-PRANGE CENTER
VILLAGE OF PLEASANT PRAIRIE, WI

EROSION CONTROL DETAILS

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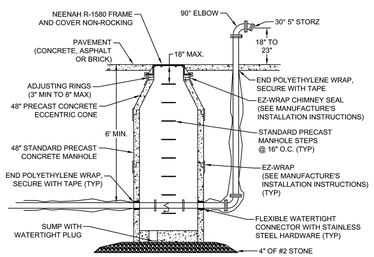
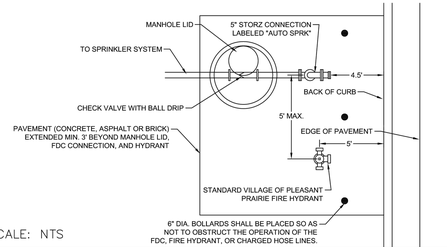
DATE: 03/25/16
SCALE: N.T.S.
JOB NO. 1150610
PROJECT MANAGER: KRISTEN J. BELAN, P.E.
DESIGNED BY: CLR
CHECKED BY: RJY

SHEET NUMBER
C500

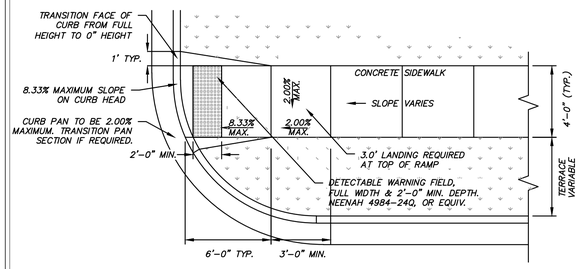
NOTE:
-SYSTEM SIZING SHALL BE COMPLETED BY A FIRE SUPPRESSION ENGINEER AND APPROVED OF BY THE VILLAGE OF PLEASANT PRAIRIE FIRE DEPARTMENT.
-SYSTEM INSTALLATION MUST BE CONSTRUCTED UNDER THE ONSITE SUPERVISION OF A LICENSED SPRINKLER FITTER.





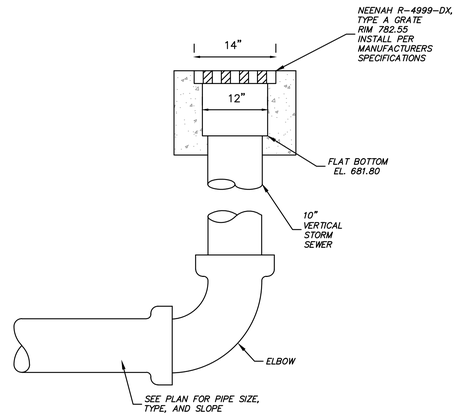
SCALE: NTS

PUMPER PAD FDC DETAIL	DETAIL: FD - 1
CREATED: 4-16-13	APPROVED BY: D. McELMURY
REVISED: 11-18-15	

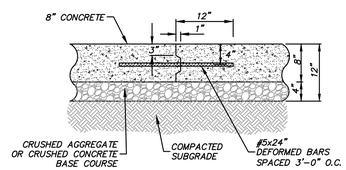


TYPE 4 CURB RAMP

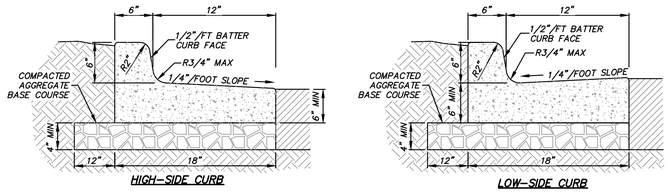
NOTES:
1. SURFACE OF CURB RAMP SHALL HAVE A BROOM FINISH OR SIMILAR SLIP RESISTANT SURFACE.



TRENCH DRAIN CONNECTION

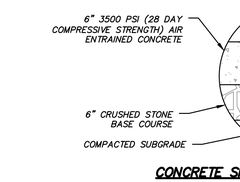


CONSTRUCTION JOINT

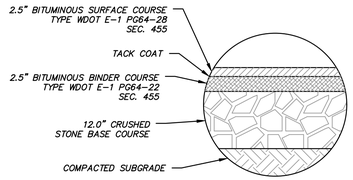


NOTES:
A) 3500 PSI CONCRETE SHALL BE USED IN CONSTRUCTION OF THE CURB & GUTTER.
B) THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE SLOPE OF THE GUTTER PAN.
C) FOR DEPRESSED CURB HEAD SLOPE, USE THE SAME SLOPE AS ADJACENT SIDEWALK.
D) THE BOTTOM OF THE CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDE MINIMUM 6" GUTTER THICKNESS MAINTAINED. TRANSVERSE CONTRACTION JOINTS SHALL BE CUT OR SAWED AT MAXIMUM 20 FOOT INTERVALS.
E) 1/2" PREFORMED EXPANSION JOINT FILLER SHALL BE PLACED TRANSVERSELY IN THE CURB ABUTTING EXISTING CURB AND SIDEWALK, WALLS OR BUILDINGS, AND AT INTERVALS NOT TO EXCEED 300 FEET, WITH PREFERRED LOCATIONS BEING AT RADIUS POINTS OR ANGLE POINTS.

CONCRETE CURB & GUTTER DETAIL



CONCRETE SIDEWALK SECTION

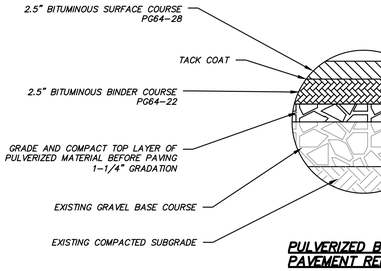


BITUMINOUS PAVEMENT (HEAVY DUTY)

NOTE: PAVEMENT SHALL BE DESIGNED BY GEOTECHNICAL ENGINEER. MISSING INFORMATION ABOVE, SHALL BE FILLED IN PER GEOTECHNICAL REPORT. CAUTION: INFORMATION BELOW SHALL BE USED ONLY AS A GUIDE.

* DENSE GRADED BASE GRADATION: 1 1/4-INCH

** HMA AGGREGATE GRADATIONS: 12 MM FOR UPPER LAYER, 19 MM FOR LOWER LAYER

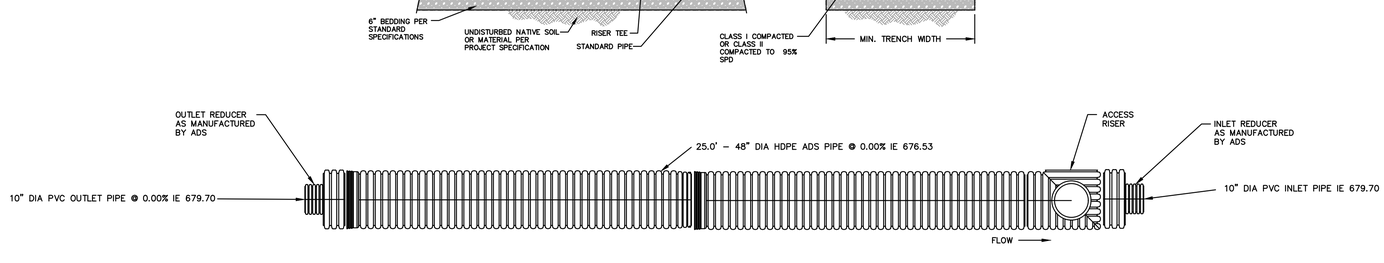


PULVERIZED BITUMINOUS PAVEMENT REPLACEMENT

NOTE: PAVEMENT SHALL BE DESIGNED BY GEOTECHNICAL ENGINEER. MISSING INFORMATION ABOVE, SHALL BE FILLED IN PER GEOTECHNICAL REPORT. CAUTION: INFORMATION BELOW SHALL BE USED ONLY AS A GUIDE.

* DENSE GRADED BASE GRADATION: 1 1/4-INCH

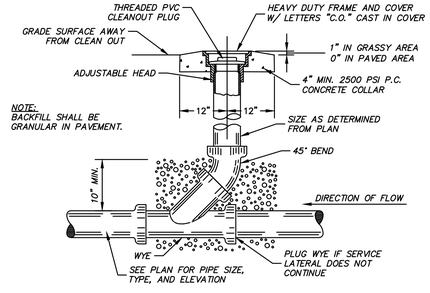
** HMA AGGREGATE GRADATIONS: 12 MM FOR UPPER LAYER, 19 MM FOR LOWER LAYER



UNDERGROUND DETENTION FOR WATER QUALITY

NOTES:
1. INSTALLATION BY MANUFACTURERS SPECIFICATIONS
2. SHOP DRAWINGS SHALL BE PROVIDED TO ENGINEER PRIOR TO FABRICATION/CONSTRUCTION

ADS
ADVANCED DRAINAGE SYSTEMS, INC.
4640 TRUEMAN BLVD
HILLIARD, OHIO 43026



SANITARY SEWER CLEAN-OUT DETAIL

DESCRIPTION	DATE

R.A. Smith National
Beyond Surveying and Engineering
www.rasmithnational.com

NEW DPW BUILDING-PRANGE CENTER
VILLAGE OF PLEASANT PRAIRIE, WI

SITE & UTILITY DETAILS

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R.A. Smith National, Inc.

DATE: 03/25/16
SCALE: N.T.S.
JOB NO. 1150610
PROJECT MANAGER: KRISTEN J. BELAN, P.E.
DESIGNED BY: CLR
CHECKED BY: RJY

SHEET NUMBER
C501

SPECIFICATIONS

A. GENERAL

1. THE CONTRACTOR SHALL NOTIFY THE OWNER AND THE MUNICIPALITY FORTY- EIGHT (48) HOURS PRIOR TO THE START OF CONSTRUCTION.
2. THE CONTRACTOR SHALL INDEMNIFY THE OWNER, THE ENGINEER, AND THE MUNICIPALITY, THEIR AGENTS, ETC, FROM ALL LIABILITY INVOLVED WITH THE CONSTRUCTION, INSTALLATION, AND TESTING OF THE WORK ON THIS PROJECT.
3. SITE SAFETY SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
4. THE BIDDER WILL BE SOLELY RESPONSIBLE FOR DETERMINING QUANTITIES AND SHALL STATE SUCH QUANTITIES IN HIS PROPOSAL. HE SHALL BASE HIS BID ON HIS OWN ESTIMATE OF THE WORK REQUIRED AND SHALL NOT RELY ON THE ENGINEER'S ESTIMATE.
5. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING SOIL CONDITIONS PRIOR TO COMMENCEMENT OF CONSTRUCTION. A GEOTECHNICAL REPORT MAY BE AVAILABLE FROM THE OWNER. THE CONTRACTOR SHALL ABIDE BY THE RECOMMENDATIONS OF THE GEOTECHNICAL ENGINEER.
6. THE CONTRACTOR IS RESPONSIBLE FOR EXAMINING ALL SITE CONDITIONS PRIOR TO COMMENCEMENT OF CONSTRUCTION AND SHALL COMPARE FIELD CONDITIONS WITH DRAWINGS.
7. THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS REQUIRED FOR EXECUTION OF THE WORK. THE CONTRACTOR SHALL CONDUCT HIS WORK ACCORDING TO THE REQUIREMENTS OF THE PERMITS.
8. THE CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING ALL UTILITY INFORMATION SHOWN ON THE PLANS PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR SHALL CALL DIGGER'S HOTLINE AT 1-800-242-8511 TO NOTIFY THE UTILITIES OF HIS INTENTIONS, AND TO REQUEST FIELD STAKING OF EXISTING UTILITIES.
9. CONTRACTOR IS ADVISED THAT ALL MUD AND DEBRIS MUST NOT BE DEPOSITED ONTO THE ADJACENT ROADWAYS PER THE REQUIREMENT OF THE MUNICIPALITY OR OTHER APPROPRIATE GOVERNMENT AGENCIES.
10. ANY ADJACENT PROPERTIES OR ROAD RIGHT-OF-WAYS WHICH ARE DAMAGED DURING CONSTRUCTION MUST BE RESTORED BY THE CONTRACTOR. THE COST OF THE RESTORATION IS CONSIDERED INCIDENTAL, AND SHOULD BE INCLUDED IN THE BID PRICES.

B. PAVING

1. THE PROPOSED IMPROVEMENTS SHALL BE CONSTRUCTED ACCORDING TO THE WISCONSIN D.O.T. STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION, LATEST EDITION, AND THE VILLAGE CONSTRUCTION SPECIFICATIONS.
2. PAVEMENT MARKINGS SHALL BE PAINT IN ACCORDANCE WITH SECTION 646 OF THE STANDARD SPECIFICATIONS. (COLOR SHALL BE AS INDICATED ON THE PLANS.) THE FOLLOWING ITEMS SHALL BE PAINTED WITH COLORS NOTED BELOW:

   PARKING STALLS: WHITE
   PEDESTRIAN CROSSWALKS: WHITE
   LANE STRIPING WHERE SEPARATING TRAFFIC IS MOVING IN OPPOSITE DIRECTIONS: YELLOW
   LANE STRIPING WHERE SEPARATING TRAFFIC IS MOVING IN SAME DIRECTIONS: WHITE
   ADA SYMBOLS: BLUE OR PER LOCAL CODE
   FIRE LANES: PER LOCAL CODE
   EXTERIOR SIDEWALK CURBED, LIGHTPOLE BASES, AND GUARD POSTS: YELLOW

C. GRADING

1. THE PROPOSED IMPROVEMENTS SHALL BE CONSTRUCTED ACCORDING TO THE WISCONSIN D.O.T. STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION, LATEST EDITION, AND THE LOCAL ORDINANCES AND SPECIFICATIONS.
2. THE CONTRACTOR SHALL MAINTAIN SITE DRAINAGE THROUGHOUT CONSTRUCTION. THIS MAY INCLUDE THE EXCAVATION OF TEMPORARY DITCHES OR PUMPING TO ALLEVIATE WATER PONDING.
3. SILT FENCE AND OTHER EROSION CONTROL FACILITIES MUST BE INSTALLED PRIOR TO CONSTRUCTION OR ANY OTHER LAND DISTURBING ACTIVITY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING ALL EROSION CONTROL FACILITIES ONCE THE THREAT OF EROSION HAS PASSED WITH THE APPROVAL OF THE GOVERNING AGENCY.
4. THE CONTRACTOR SHALL ASSUME SOLE RESPONSIBILITY FOR THE COMPUTATIONS OF ALL GRADING AND FOR ACTUAL LAND BALANCE, INCLUDING UTILITY TRENCH SPOIL. THE CONTRACTOR SHALL IMPORT OR EXPORT MATERIAL AS NECESSARY TO COMPLETE THE PROJECT.
5. GRADING SHALL CONSIST OF CLEARING AND GRUBBING EXISTING VEGETATION, STRIPPING TOPSOIL, REMOVAL OF EXISTING PAVEMENT OR FOUNDATIONS, IMPORTING OR EXPORTING MATERIAL TO ACHIEVE AND ON-SITE EARTHWORK BALANCE, GRADING THE PROPOSED BUILDING PADS AND PAVEMENT AREAS, SCARIFYING AND FINAL COMPACTION OF THE PAVEMENT SUBGRADE, AND PLACEMENT OF TOPSOIL.
6. NO FILL SHALL BE PLACED ON A WET OR SOFT SUBGRADE. THE SUBGRADE SHALL BE PROOF-ROLLED AND INSPECTED BY THE GEOTECHNICAL ENGINEER BEFORE ANY MATERIAL IS PLACED.
7. ALL FILL SHALL BE CONSIDERED STRUCTURAL FILL AND SHALL BE PLACED IN ACCORDANCE WITH THE GEOTECHNICAL REPORT.

D. PRIVATE UTILITIES

1. THE PROPOSED IMPROVEMENTS SHALL BE CONSTRUCTED ACCORDING TO WISCONSIN ADMINISTRATIVE CODE, SECTION SPS 382-384, LATEST EDITION, THE STANDARD SPECIFICATIONS FOR SEWER AND WATER CONSTRUCTION IN WISCONSIN, LATEST EDITION, AND THE VILLAGE CONSTRUCTION SPECIFICATIONS.

E. EROSION CONTROL

1. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING COPIES OF ALL PERMITS, INCLUDING WPDES DISCHARGE PERMITS (IF APPLICABLE), AND THE (LOCAL MUNICIPALITY) EROSION CONTROL PERMIT. CONTRACTOR IS RESPONSIBLE FOR ABIDING BY ALL PERMIT REQUIREMENTS AND RESTRICTIONS.
2. ALL INSTALLATION AND MAINTENANCE OF EROSION CONTROL PRACTICES SHALL BE IN ACCORDANCE WITH THE APPLICABLE WISCONSIN DEPARTMENT OF NATURAL RESOURCES (WDNR) TECHNICAL STANDARD.
3. ALL EROSION CONTROL FACILITIES SHALL BE MAINTAINED THROUGHOUT THE DURATION OF THE PROJECT AND WARRANTY PERIOD IN CONFORMANCE WITH THE DNR WPDES GENERAL PERMIT.
4. ALL EROSION AND SEDIMENTATION CONTROL PRACTICES SHALL BE INSPECTED WEEKLY AND WITHIN 24 HOURS AFTER EVERY PRECIPITATION EVENT THAT PRODUCES 0.5 INCHES OF RAIN OR MORE DURING A 24 HOUR PERIOD. NEEDED REPAIRS WILL BE MADE IMMEDIATELY.
5. ALL DISTURBED GROUND LEFT INACTIVE FOR THIRTY DAYS OR MORE SHALL BE STABILIZED WITH TOPSOIL, SEED, AND MULCH IN ACCORDANCE WITH THE WDNR TECHNICAL STANDARDS 1059 AND 1058.
6. TEMPORARY SEED MIXTURE SHALL CONFORM TO 630.2.1.5.1.4 OF THE WSDOT STANDARD SPECIFICATIONS. USE WINTER WHEAT OR RYE FOR FALL PLANTINGS STARTED AFTER SEPTEMBER 1.
7. DISTURBED AREAS THAT CANNOT BE STABILIZED WITH A DENSE GROWTH OF VEGETATION BY SEEDING AND MULCHING DUE TO TEMPERATURE OR TIMING OF CONSTRUCTION, SHALL BE STABILIZED BY APPLYING ANIONIC POLYACRYLAMIDE (PAM) IN ACCORDANCE WITH WDNR TECHNICAL STANDARD 1050.
8. SEDIMENT SHALL BE REMOVED FROM THE SEDIMENT BASINS TO MAINTAIN A THREE FOOT DEPTH OF TREATMENT, MEASURED BELOW THE NORMAL WATER ELEVATION. SEDIMENT WILL BE REMOVED FROM THE DIVERSION DITCHES WHEN IT REACHES HALF THE HEIGHT OF THE DITCH. SEDIMENT WILL BE REMOVED FROM BEHIND THE SILT FENCE AND DITCH CHECKS WHEN IT REAOHES HALF THE HEIGHT OF THE FENCE/BALE. THE SILT FENCE AND DITCH CHECKS SHALL BE REPAIRED AS NECESSARY TO MAINTAIN A BARRIER.
9. ALL WATER FROM CONSTRUCTION DEWATERING SHALL BE TREATED IN ACCORDANCE WITH WDNR TECHNICAL STANDARD 1061 PRIOR TO DISCHARGE TO WATERS OF THE STATE, WETLANDS, OR OFFSITE.
10. THE CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF ANY ADDITIONAL EROSION CONTROL MEASURES NECESSARY TO PREVENT EROSION AND SEDIMENTATION. ALL DISTURBED AREAS ARE TO DRAIN TO APPROVED SEDIMENT CONTROL MEASURES AT ALL TIMES DURING SITE DEVELOPMENT UNTIL FINAL STABILIZATION IS ACHIEVED. DEPENDING ON HOW THE CONTRACTOR GRADES THE SITE, IT MAY BE NECESSARY TO INSTALL TEMPORARY SEDIMENT TRAPS IN VARIOUS LOCATIONS THROUGHOUT THE PROJECT. TEMPORARY SEDIMENT TRAPS SHALL BE DESIGNED, INSTALLED, AND MAINTAINED IN ACCORDANCE WITH WDNR TECHNICAL STANDARD 1063.
11. ANY SEDIMENT TRACKED ONTO A PUBLIC OR PRIVATE ROAD SHOULD BE REMOVED BY STREET CLEANING, NOT FLUSHING, BEFORE THE END OF EACH WORKING DAY.
12. DUST CONTROL SHALL BE PROVIDED AS NECESSARY IN ACCORDANCE WITH WDNR TECHNICAL STANDARD 1068.
13. FINAL STABILIZATION OF LANDSCAPED AREAS SHALL BE IN ACCORDANCE WITH THE APPROVED LANDSCAPE PLAN.
14. ALL SEEDED AREAS WILL BE FERTILIZED, RESEEDED AS NECESSARY, AND MULCHED ACCORDING TO SPECIFICATIONS IN THE APPROVED LANDSCAPE PLAN TO MAINTAIN A VIGOROUS DENSE VEGETATIVE COVER.

DESCRIPTION	DATE

R.A. Smith National
Beyond Surveying and Engineering
www.rasmithnational.com

NEW DPW BUILDING-PRANGE CENTER
VILLAGE OF PLEASANT PRAIRIE, WI

SPECIFICATIONS

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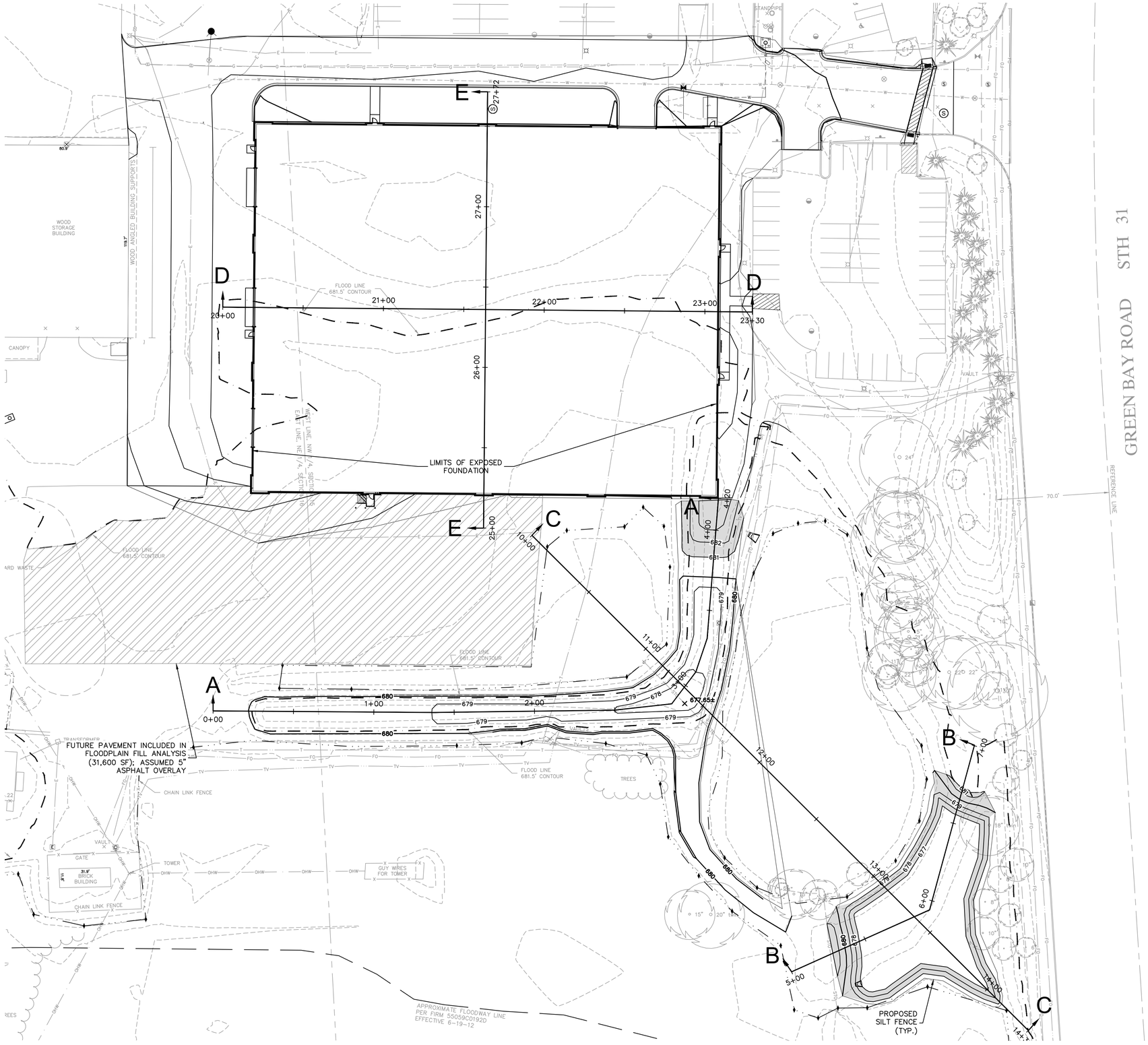
R.A. Smith National, Inc.

DATE: 03/25/16
SCALE: N.T.S.
JOB NO. 1150610
PROJECT MANAGER: KRISTEN J. BELAN, P.E.
DESIGNED BY: CLR
CHECKED BY: RJY

SHEET NUMBER
C600



N

GRAPHIC SCALE

15 0 7.5 15 30 60

(IN FEET)

LEGEND

- PROPOSED PROPERTY LINE
- 000.00 EXISTING SPOT ELEVATION
- 000 EXISTING CONTOURS
- 000 PROPOSED CONTOURS
- 0.00 PROPOSED SPOT GRADES
- (0.00) PROPOSED TOP OF CURB GRADE
- PROPOSED STORM INLETS / MANHOLES
- EROSION MAT
- EXISTING SANITARY SEWER LINE
- EXISTING STORM SEWER LINE
- EXISTING WATER MAIN LINE
- EXISTING ELECTRICAL LINE
- EXISTING LIGHT POLE WIRING
- EXISTING TELEPHONE LINE
- EXISTING FIBER OPTIC LINE
- EXISIITNG GAS LINE
- EXISTING HYDRANT
- EXISTING GATE VALVE
- EXISTING STORM SEWER MANHOLE
- EXISTING STORM SEWER INLETS
- EXISTING SANITARY SEWER MANHOLE
- EXITING LIGHT POLES
- EXISTING ELEC. AND TELE. PEDESTALS
- EXISTING GAS METER AND VALVES

FLOODPLAIN CALCS

1,500 CY APPROXIMATE FLOODPLAIN FILL VOLUME (FLOODPLAIN VOL. REMOVED)

1,615 CY APPROXIMATE FLOODPLAIN CUT VOLUME (FLOODPLAIN VOL. CREATED)

TOPOGRAPHIC SURVEY PROVIDED R.A. SMITH NATIONAL, DATED DECEMBER 09, 2015.

THE LOCATIONS OF EXISTING UTILITY INSTALLATIONS AS SHOWN ON THIS PLAN ARE APPROXIMATE. THERE MAY BE OTHER UNDERGROUND UTILITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN.

CONTRACTOR SHALL PROVIDE EROSION CONTROL FACILITIES IN ACCORDANCE WITH THE VILLAGE OF PLEASANT PRAIRIE EROSION CONTROL ORDINANCE, THE WISCONSIN DNR STORMWATER CONSTRUCTION AND POST CONSTRUCTION TECHNICAL STANDARDS, WDNR PERMIT CONDITIONS, AND THESE DOCUMENTS; THE MOST STRINGENT TO APPLY.

R.A.SMITH NATIONAL ASSUMES NO RESPONSIBILITY FOR DAMAGES, LIABILITY OR COSTS RESULTING FROM CHANGES OR ALTERATIONS MADE TO THIS PLAN WITHOUT THE EXPRESSED WRITTEN CONSENT OF R.A.SMITH NATIONAL

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Milwaukee Area (414) 259-1181
Hearing Impaired TDD (800) 542-2289
www.DiggersHotline.com

DATE	DESCRIPTION

R.A. Smith National
Beyond Surveying and Engineering
www.rasmithnational.com

NEW DPW BUILDING-PRANGE CENTER
VILLAGE OF PLEASANT PRAIRIE, WI

FLOOD PLAIN CROSS SECTIONS

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R.A. Smith National, Inc.

DATE: 03/25/16

SCALE: 1" = 30'

JOB NO. 1150610

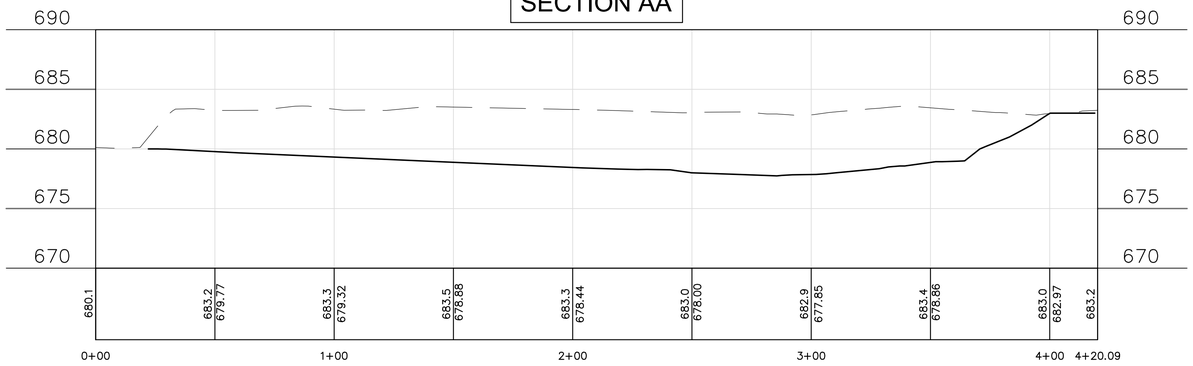
PROJECT MANAGER: KRISTEN J. BELAN, P.E.

DESIGNED BY: CLR

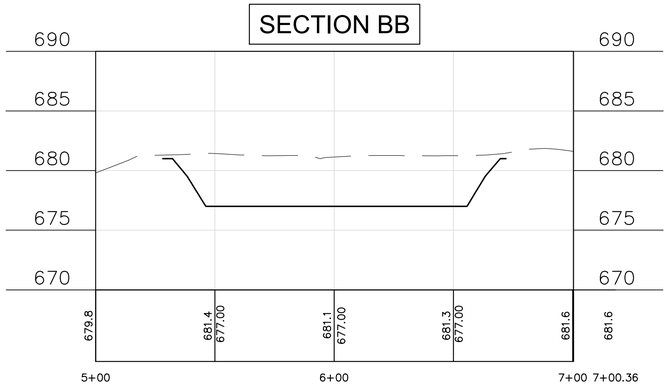
CHECKED BY: RJY

SHEET NUMBER
EX-001

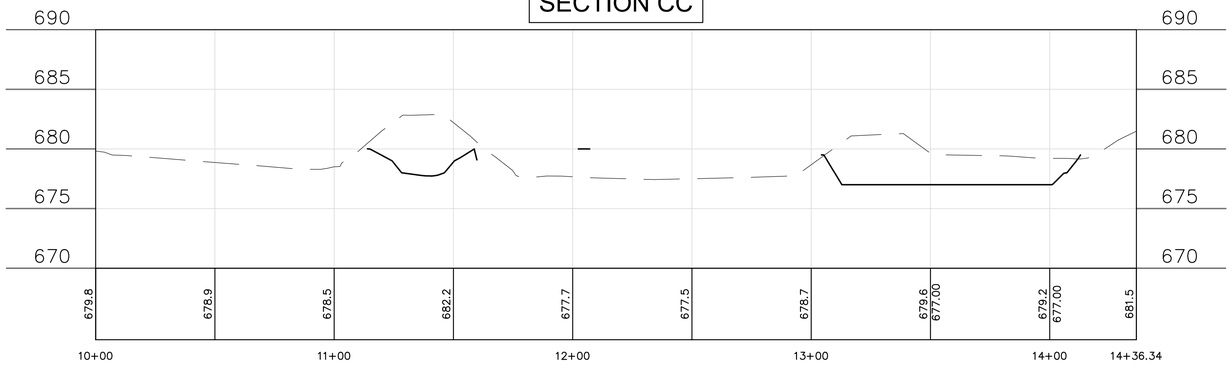
SECTION AA



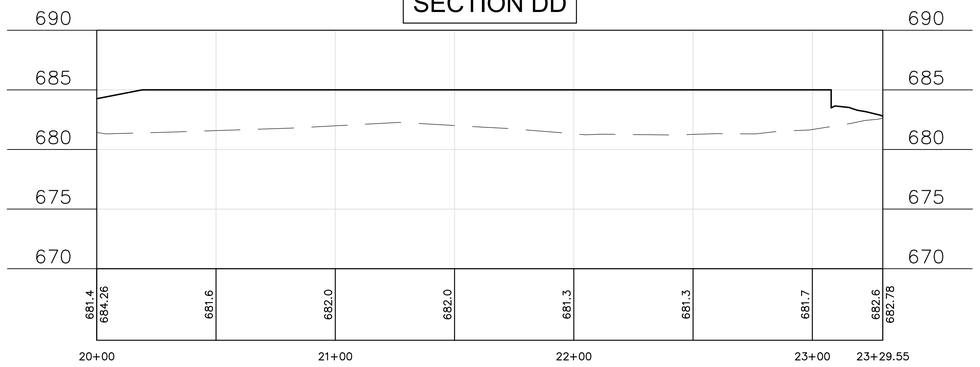
SECTION BB



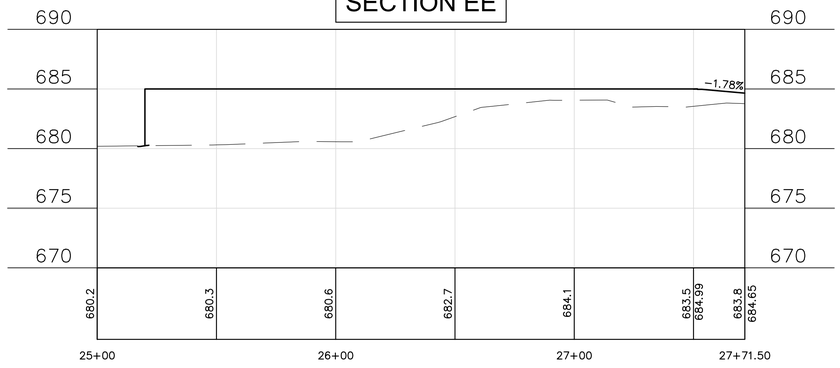
SECTION CC



SECTION DD



SECTION EE



GRAPHIC SCALE
15 0 7.5 15 30 60
(IN FEET)

THE LOCATIONS OF EXISTING UTILITY INSTALLATIONS AS SHOWN ON THIS PLAN ARE APPROXIMATE. THERE MAY BE OTHER UNDERGROUND UTILITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN.

TOPOGRAPHIC SURVEY PROVIDED R.A. SMITH NATIONAL, DATED DECEMBER 09, 2015.

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DATE	DESCRIPTION

R.A. Smith National
Beyond Surveying and Engineering
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NEW DPW BUILDING-PRANGE CENTER
VILLAGE OF PLEASANT PRAIRIE, WI

FLOOD PLAIN CROSS SECTIONS

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R.A. Smith National, Inc.

DATE: 03/25/16
SCALE: 1" = 30'
JOB NO. 1150610
PROJECT MANAGER: KRISTEN J. BELAN, P.E.
DESIGNED BY: CLR
CHECKED BY: RJY

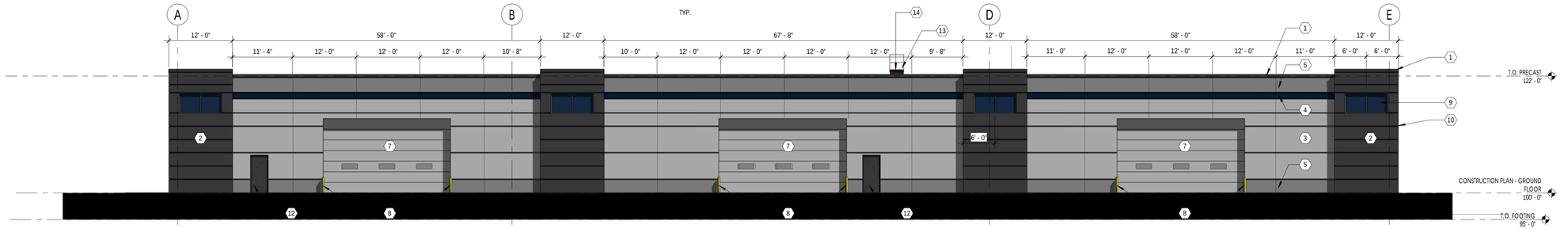
SHEET NUMBER
EX-002

PROPOSED BUILDING FOR THE:

VILLAGE OF PLEASANT PRAIRIE

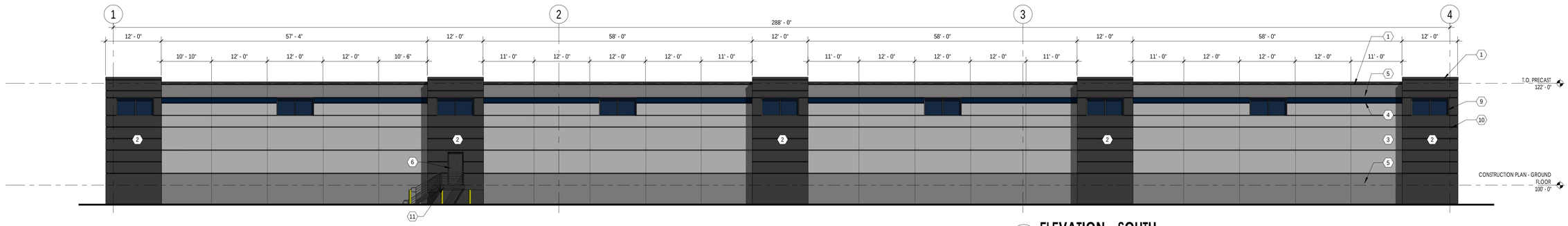
DEPARTMENT OF PUBLIC WORKS FACILITY

STEPHEN PERRY SMITH ARCHITECTS, INC.



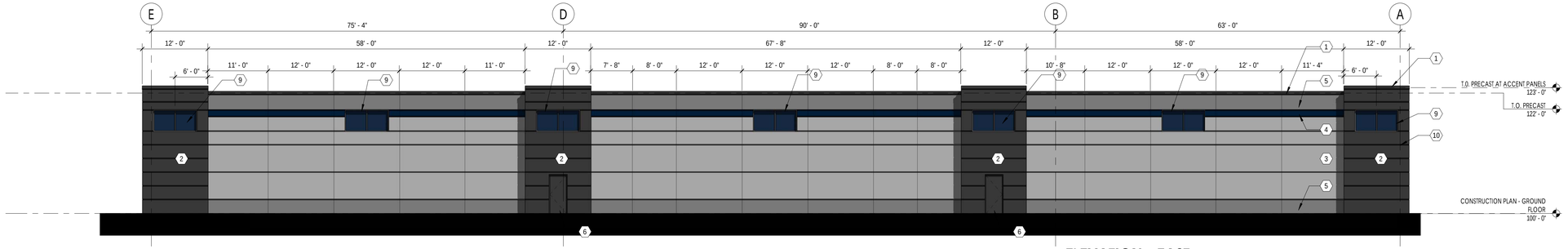
4 ELEVATION - WEST

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



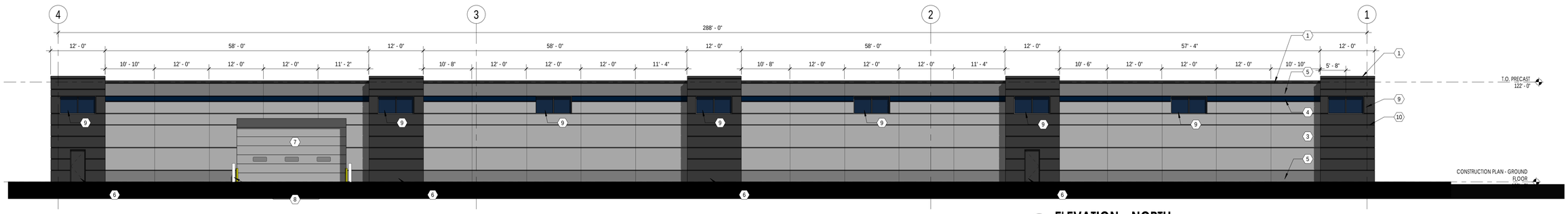
3 ELEVATION - SOUTH

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



2 ELEVATION - EAST

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



1 ELEVATION - NORTH

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

PROPOSED BUILDING FOR THE:

VILLAGE OF PLEASANT PRAIRIE

DEPARTMENT OF PUBLIC WORKS FACILITY

STEPHEN PERRY SMITH ARCHITECTS, INC.

PROJECT:

DEPARTMENT OF PUBLIC WORKS FACILITY
VILLAGE OF PLEASANT PRAIRIE

8600 GREEN BAY ROAD
PLEASANT PRAIRIE, WISCONSIN

ISSUED FOR: **PERMIT AND CONSTRUCTION**
BID PACKAGE #3

ARCHITECT:

STEPHEN PERRY SMITH ARCHITECTS, INC.
MILWAUKEE, WISCONSIN

STEPHEN PERRY SMITH ARCHITECTS, INC.
215 N. WATER STREET, SUITE 250
MILWAUKEE, WISCONSIN 53202
T 414.277.9700 | F 414.277.9705
spsarchitects.com

PROJECT

PROPOSED BUILDING FOR:
VILLAGE OF PLEASANT PRAIRIE

DEPARTMENT OF PUBLIC WORKS
VILLAGE OF PLEASANT PRAIRIE:

CONSTRUCTION MANAGER

RILEY CONSTRUCTION

REVISIONS

NO.	DESCRIPTION	DATE

INFORMATION

PROJECT ARCHITECT	SPS
PROJECT MANAGER	MAM
PROJECT NUMBER	RCC-15-785
ISSUED FOR	CONSTRUCTION (BP #)
DATE	MARCH 18, 2016

SHEET
TITLE PAGE

T100

CODE ANALYSIS

TYPE OF PROJECT
NEW VEHICLE & EQUIPMENT STORAGE FACILITY
1 STORY 65,664 SQUARE FEET

CONSTRUCTION CLASSIFICATION
2B
SPRINKLER PROTECTION THROUGHOUT: **YES**

NUMBER OF STORIES/LEVELS
1 STORY / 1 LEVEL

OCCUPANCY USE (IBC CHAPTER 3)
PRIMARY OCCUPANCY: **STORAGE**

OCCUPANT LOAD (IBC CHAPTER 10)

SPACE NAME	OCCUPANCY	AREA (S.F.)	DENSITY	TOTAL
1ST FLOOR	WAREHOUSE	65,664	500 GROSS	132

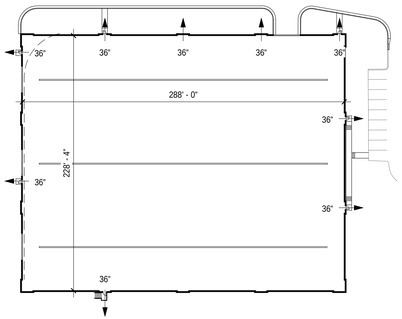
EGRESS WIDTH (IBC 1005.1)

SPACE NAME	OCCUP. LOAD	STAIR FACTOR	STAIR WIDTH	STAIR PROVIDED	EGRESS FACTOR	EGRESS WIDTH	WIDTH PROVIDED
1ST FLOOR	132	N/A	N/A	N/A	.2"	27"	324"

SPACE ABOVE PART OF AN ASSEMBLY SEATING FACILITY: **NO**

MULTIPLE OCCUPANCIES
BUILDING DESIGN IS BASED ON NON-SEPARATED USES
MOST RESTRICTIVE OCCUPANCY: STORAGE (S-2)

EXIT DISTANCE ALLOWED (IBC 1016)
STORAGE (S-2): 400'



1 LIFE SAFETY PLAN
SCALE: 1/64" = 1'-0"

PLAN SYMBOLS

- A — COLUMN GRID LINE AND REFERENCE NUMBER
- EXISTING WALL TO REMAIN
- PARTITION WALL TO BE REMOVED
- NEW PARTITION WALL (SEE PLAN FOR WALL TYPE)
- NEW PARTITION INFILL TO MATCH ADJACENT WALL TYPE
- EXISTING DOOR TO REMAIN
- EXISTING DOOR TO BE REMOVED
- 100 — NEW DOOR AND HARDWARE SEE DOOR SCHEDULE FOR TYPE — DOOR TAG
- ROOM 100 — ROOM NAME, ROOM NUMBER
- CPT-1 — INTERIOR FINISH KEYNOTE
- 1 — WALL PARTITION TYPE
- A — PLUMBING FIXTURES
- 1 — EQUIPMENT/FURNISHING
- 1 — REFLECTED CEILING KEYNOTE
- D1 — DEMOLITION KEYNOTE
- 1 — ELEVATION KEYNOTE
- FEC — FULLY RECESSED FIRE EXTINGUISHER CABINET AND FIRE EXTINGUISHER
- FE — WALL HUNG FIRE EXTINGUISHER
- 1 — REVISION CLOUD AND REVISION NUMBER; REVISION CLOUDS MAY NOT BE INCLUDED
- 1 / A1 — DETAIL NUMBER, REFERENCE SHEET, AREA OF DETAIL
- 1 / A1 — DETAIL NUMBER, ELEVATION DIRECTION, REFERENCE SHEET
- 1 / A1 — DETAIL NUMBER, REFERENCE SHEET, DIRECTION OF SECTION
- AREA NOT IN CONTRACT

PLAN ABBREVIATIONS

ACT	ACOUSTICAL CEILING TILE
ADD	ADDITION
ADJ	ADJUSTABLE
AFF	ABOVE FINISHED FLOOR
ALT	ALTERNATE
ALUM	ALUMINUM
AN	ANODIZED
BB	BALL BEARING
BL	BORROWED LIGHT
BLDG	BUILDING
BLKG	BLOCKING
BO	BY OWNER
BOT	BOTTOM
BRG	BEARING
BRK	BRICK
BSMT	BASEMENT
C	CHANNEL
CAB	CABINET
CB	CERAMIC BASE
CF	CONTRACTOR FURNISHED
OI	OWNER INSTALLED
CJ	CONTROL JOINT
CL	CENTERLINE
CLG	CEILING
CLOS	CLOSET
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
CONS	CONSTRUCTION
CONT	CONTINUOUS
CORR	CORRIDOR
CPT	CARPET
CRB	COVE RUBBER BASE
CT	CERAMIC TILE
D	DEPTH
DBL	DOUBLE
DEPT	DEPARTMENT
DTL	DETAIL
DF	DRINKING FOUNTAIN
DIA	DIAMETER
DIM	DIMENSION
DN	DOWN
DO	DITTO
DR	DOOR
DS	DOOR SWING
DWG	DRAWING
EA	EACH
EF	EACH FACE
ELEC	ELECTRIC
ELEV	ELEVATION
EQ	EQUAL
EQUIP	EQUIPMENT
ETR	EXISTING TO REMAIN
EW	EACH WAY
EXC	EXCAVATE
EXIST	EXISTING
EXP	EXPANSION
EXT	EXTERIOR
FA	FIRE ALARM
FD	FLOOR DRAIN/FIRE DRAIN
FDN	FOUNDATION
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CAB
FIN	FINISH
FIX	FIXTURE
FLR	FLOOR
FLUOR	FLUORESCENT
FT	FEET
FTG	FOOTING
FOW	FACE OF WALL
GA	GAUGE
GALV	GALVANIZED
GB	GRANITE BASE
GC	GENERAL CONTRACTOR
GEN	GENERAL
GL	GLASS
GT	GRANITE TILE
GWB	GYPSUM WALL BOARD
HD	HEAD
HDW	HARDWARE
HT	HEIGHT
HM	HOLLOW METAL
HORZ	HORIZONTAL
HB	HOSE BIB
HR	HOUR
HVAC	HEATING, VENTILATING & AIR CONDITIONING
IN	INCHES
INSUL	INSULATION
INT	INTERIOR
JAN	JANITOR
JST	JOIST
JT	JOINT
KD	KNOCKED DOWN
KO	KNOCK OUT
LAM	LAMINATE
LAV	LAVATORY
LBS	POUNDS
MAS	MASONRY
MATL	MATERIAL
MAX	MAXIMUM
MECH	MECHANICAL
MEZZ	MEZZANINE
MANF	MANUFACTURER
MH	METAL HALIDE
MIN	MINIMUM
MIR	MIRROR
MISC	MISCELLANEOUS
MLDG	MOULDING
MO	MASONRY OPENING
MTD	MOUNTED
MTL	METAL
NIC	NOT IN CONTRACT
NO	NUMBER
NOM	NOMINAL
NTS	NOT TO SCALE
OC	ON CENTER
OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED, OWNER INSTALLED
OHD	OVERHEAD DOOR
OPNG	OPENING
OPP	OPPOSITE
P & S	POLE & SHELF
PART	PARTITION
PCST	PRECAST
PLBG	PLUMBING
PLYWD	PLYWOOD
PR	PAIR
PREFAB	PREFABRICATED
PREFIN	PREFINISHED
PRELIM	PRELIMINARY
PSF	POUNDS PER SQ FT
PT	PAINT
QT	QUARRY TILE
R	RISER
RAD	RADIUS
RB	RUBBER BASE
RD	ROOF DRAIN
REC	RECESSED
REF	REFRIGERATOR
REINF	REINFORCED
REQD	REQUIRED
REV	REVISION
RFG	ROOFING
RM	ROOM
RO	ROUGH OPENING
SCH	SCHEDULE
SECT	SECTION
SHT	SHEET
SIM	SIMILAR
SOG	SLAB ON GRADE
SPEC	SPECIFICATION
SQ	SQUARE
SRB	STRAIGHT RUBBER BASE
SS	STAINLESS STEEL
ST	STREET
STD	STANDARD
STL	STEEL
STL-JST	STEEL JOIST
STRUCT	STRUCTURE
T & B	TOP & BOTTOM
TEL	TELEPHONE
TEMP	TEMPERATURE
THRESH	THRESHHOLD
T & G	TONGUE & GROOVE
TOB	TOP OF BEAM
TOD	TOP OF DECK
TOF	TOP OF FLOOR
TOJ	TOP OF JOIST
TOS	TOP OF SLAB
TOW	TOP OF WALL
TPG	TOPPING
TR	TREAD
TRAN	TRANSOM
TRANS	TRANSFORMER
TYP	TYPICAL
UL	UNDERWRITERS LABORATORIES
UNEX	UNEXCAVATED
UNFIN	UNFINISHED
UR	URINAL
VB	VINYL BASE
VRBR	VAPOR BARRIER
VCT	VERTICAL
VENT	VENTILATOR
VERT	VERTICAL
VIF	VERIFY IN FIELD
VT	VINYL TILE
VWC	VINYL WALL COVERING
W	WIDTH
W/	WITH
WC	WATER CLOSET
WD	WOOD
WWF	WELDED WIRE FABRIC
W/O	WITHOUT

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FIRE PROTECTION		
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MECHANICAL		
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ELECTRICAL		
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	E100	FIRST FLOOR PLAN - LIGHTING
	E200	FIRST FLOOR PLAN - POWER AND SYSTEMS
	E300	ELECTRICAL DETAILS
	E301	ELECTRICAL SCHEDULES

GENERAL CONTRACTOR

NAME: RILEY CONSTRUCTION
11270 W. PARK PLACE, SUITE 900
MILWAUKEE, WI 53224
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CIVIL

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PROJECT

PROPOSED BUILDING FOR:
VILLAGE OF PLEASANT PRAIRIE

DEPARTMENT OF PUBLIC WORKS
VILLAGE OF PLEASANT PRAIRIE:

CONSTRUCTION MANAGER

RILEY CONSTRUCTION

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PROJECT ARCHITECT	SPS
PROJECT MANAGER	MAM
PROJECT NUMBER	RCC-15-785
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DATE	MARCH 18, 2016

SHEET

PROJECT INFORMATION AND INDEX

T101

PROJECT FINISHES

GLAZING

CODE:	GL1
ITEM:	ARCHITECTURAL GLASS
PRODUCT:	1" LOW E INSULATING GLASS
COLOR:	GREY TINTED
U VALUE (MAX.):	.29
SHGC (MAX.):	.25

PAINT - EXTERIOR

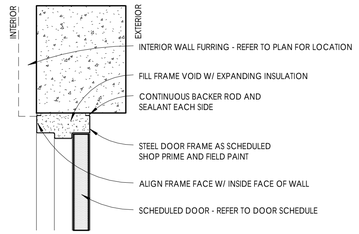
CODE:	EPT1
ITEM:	EXTERIOR PAINT
MANUFACTURER:	SHERWIN WILLIAMS PROMAR OR EQUAL
NUMBER/COLOR:	SW7667 ZIRCON
FINISH:	FLAT OVER LOXON ACRYLIC PRIMER
NOTES:	FIELD PAINT
CODE:	EPT2
ITEM:	EXTERIOR PAINT
MANUFACTURER:	SHERWIN WILLIAMS PROMAR OR EQUAL
NUMBER/COLOR:	SW7668 MARCH WIND
FINISH:	FLAT OVER LOXON ACRYLIC PRIMER
NOTES:	ACCENT GRAY
CODE:	EPT3
ITEM:	EXTERIOR PAINT
MANUFACTURER:	SHERWIN WILLIAMS PROMAR OR EQUAL
NUMBER/COLOR:	SW7669 SUMMIT GRAY
FINISH:	FLAT OVER LOXON ACRYLIC PRIMER
NOTES:	ACCENT GRAY
CODE:	EPT4
ITEM:	BLUE ACCENT BANDS
MANUFACTURER:	EXTERIOR PAINT
NUMBER/COLOR:	SHERWIN WILLIAMS
FINISH:	SW 6517 REGATTA
NOTES:	FLAT OVER LOXON ACRYLIC PRIMER
CODE:	EPT5
ITEM:	EXTERIOR PAINT
MANUFACTURER:	SHERWIN WILLIAMS PROMAR OR EQUAL
NUMBER/COLOR:	SW7669 SUMMIT GRAY
FINISH:	SEMI-GLOSS OVER PRO-CRYL PRIMER
NOTES:	PAINT AT HM DOOR AND FRAME
CODE:	EPT6
ITEM:	EXTERIOR PAINT
MANUFACTURER:	SHERWIN WILLIAMS OR EQUAL
NUMBER/COLOR:	SW7667 ZIRCON
FINISH:	SEMI-GLOSS OVER PRO-CRYL PRIMER
NOTES:	PAINT AT HM DOOR AND FRAME
CODE:	EPT7
ITEM:	BOLLARDS AND GUARDRAILS
MANUFACTURER:	EXTERIOR PAINT
NUMBER/COLOR:	SHERWIN WILLIAMS
FINISH:	SAFETY YELLOW
NOTES:	SATIN

ACCENT METALS

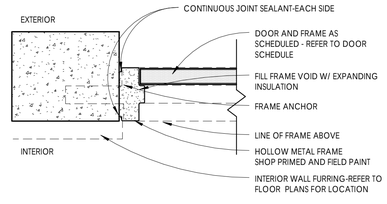
CODE:	AM1
ITEM:	ARCHITECTURAL METAL
MANUFACTURER	PAC CLAD OR EQUAL
FINISH/COLOR:	TO BE SELECTED FROM MANF. STD COLORS
LOCATION:	GRAVEL STOP
NOTES:	-
CODE:	AM2
ITEM:	ARCHITECTURAL METAL
MANUFACTURER	KAWNEER 451T OR EQUAL
FINISH/COLOR:	CLEAR ANODIZED
LOCATION:	STOREFRONT FRAMING
NOTES:	-
CODE:	AM3
ITEM:	ARCHITECTURAL METAL
MANUFACTURER	-
FINISH/COLOR:	HOT DIPPED GALVANIZING
LOCATION:	EXTERIOR STAIRS
NOTES:	-

DOOR AND FRAME SCHEDULE

DOOR #	DOOR: LEAF WIDTH	DOOR: HGT	DOOR: TYPE	DOOR: MAT'L	DOOR: FINISH	GLASS	HARD-WARE	FRAME: TYPE	FRAME: MAT'L	FRAME: FINISH	DETAILS: HEAD	DETAILS: JAMB	DETAILS: MISC	RATING	REMARKS
102	3' - 0"	7' - 0"	D1	HM	PAINT	NONE	H1	F1	HM	PAINT	1	2			
103	24' - 0"	14' - 0"	D2	STEEL	PRE-FIN.	PLEXI-GLASS	H2	-	STL	PAINT	-	-			
104	3' - 0"	7' - 0"	D1	HM	PAINT	NONE	H1	F1	HM	PAINT	1	2			
105	3' - 0"	7' - 0"	D1	HM	PAINT	NONE	H1	F1	HM	PAINT	1	2			
106	3' - 0"	7' - 0"	D1	HM	PAINT	NONE	H1	F1	HM	PAINT	1	2			
108	3' - 0"	7' - 0"	D1	HM	PAINT	NONE	H1	F1	HM	PAINT	1	2			
110	24' - 0"	14' - 0"	D2	STEEL	PRE-FIN.	PLEXI-GLASS	H2	-	STL	PAINT	-	-			
111	3' - 0"	7' - 0"	D1	HM	PAINT	NONE	H1	F1	HM	PAINT	1	2			
112	24' - 0"	14' - 0"	D2	STEEL	PRE-FIN.	PLEXI-GLASS	H2	-	STL	PAINT	-	-			
113	24' - 0"	14' - 0"	D2	STEEL	PRE-FIN.	PLEXI-GLASS	H2	-	STL	PAINT	-	-			
114	3' - 0"	7' - 0"	D1	HM	PAINT	NONE	H1	F1	HM	PAINT	1	2			



1 STEEL FRAME HEAD AT CONCRETE
SCALE: 1 1/2" = 1'-0"



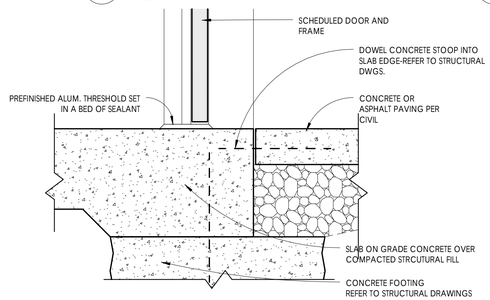
2 STEEL FRAME JAMB AT CONCRETE
SCALE: 1 1/2" = 1'-0"

HARDWARE GROUPS

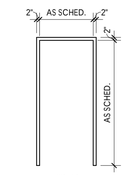
HARDWARE SET H1	HARDWARE SET H2		
EXTERIOR DOOR - LOCK LOCK SET PANIC BAR THRESHOLD CONTINUOUS WEATHERSTRIPPING CLOSER 2 PAIR HVY. DUTY B.B. BUTTS	OVERHEAD DOOR - LOCK OVERHEAD DOOR LOCK TRACK AND ASSOCIATED HARDWARE CONTINUOUS WEATHERSTRIPPING		

NOTE:

1. COORDINATE MASTER KEY SYSTEM WITH OWNER.
2. ALL HARDWARE TO BE A.D.A. COMPLIANT SCHLAGE AL-SERIES 'NEPTUNE' STYLE LEVER SATIN CHROME (US26d) FINISH UNLESS OTHERWISE NOTED.
3. LOCKSETS TO BE KEYED TO BUILDING MASTER WITH FUNCTION BASED UPON LOCATION.
4. DOOR STOPS: USE WALL STOP OR DOME STOP. USE FLOOR STOPS ONLY WHERE WALL STOP CANNOT WORK.

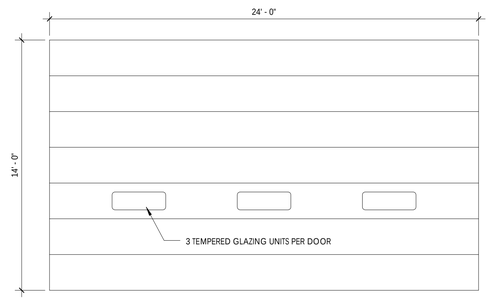


7 HM DOOR THRESHOLD
SCALE: 1 1/2" = 1'-0"



TYPE F1
HOLLOW METAL FRAME

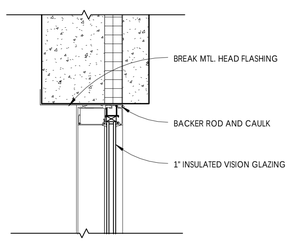
TYPE D1
SOLID CORE HOLLOW METAL



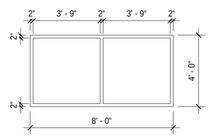
TYPE D2
INSULATED STEEL SECTIONAL PREFINISHED OVERHEAD DOOR.

FRAME TYPES
SCALE: 1/4" = 1'-0"

DOOR TYPES
SCALE: 1/4" = 1'-0"

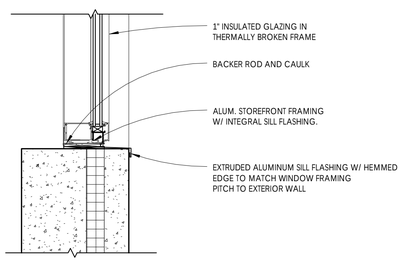


4 STOREFRONT FRAME @ HEAD
SCALE: 1 1/2" = 1'-0"

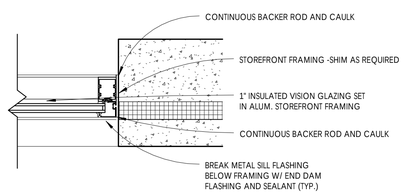


1" INSULATED VISION GLAZING SET IN THERMALLY BROKEN ANODIZED ALUMINUM FRAMES.

3 TYPICAL STOREFRONT ELEVATION
SCALE: 1/4" = 1'-0"



5 STOREFRONT FRAME @ SILL
SCALE: 1 1/2" = 1'-0"



6 STOREFRONT FRAME @ JAMB
SCALE: 1 1/2" = 1'-0"

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PROJECT

PROPOSED BUILDING FOR:

VILLAGE OF PLEASANT PRAIRIE

DEPARTMENT OF PUBLIC WORKS
VILLAGE OF PLEASANT PRAIRIE:

CONSTRUCTION MANAGER

RILEY CONSTRUCTION

REVISIONS

NO.	DESCRIPTION	DATE

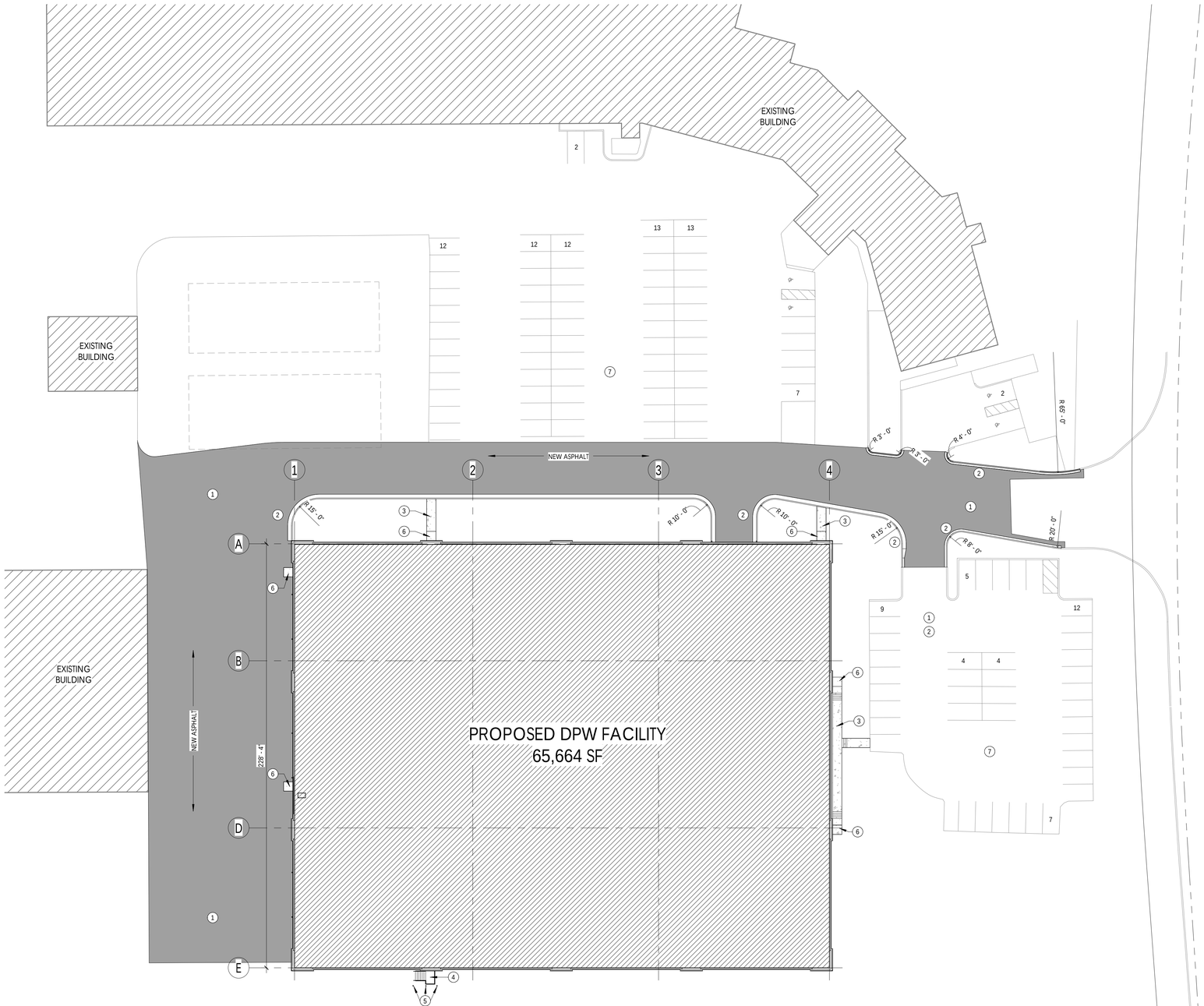
INFORMATION

PROJECT ARCHITECT	SPS
PROJECT MANAGER	MAM
PROJECT NUMBER	RCC-15-785
ISSUED FOR	CONSTRUCTION (BP #)
DATE	MARCH 18, 2016

SHEET

DOOR TYPES AND SCHEDULES

A001

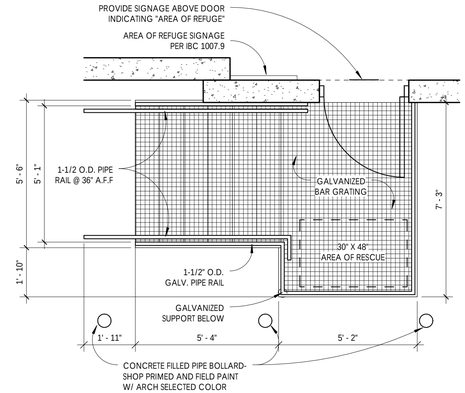


1 ARCHITECTURAL SITE PLAN

SCALE: 1" = 30'-0"

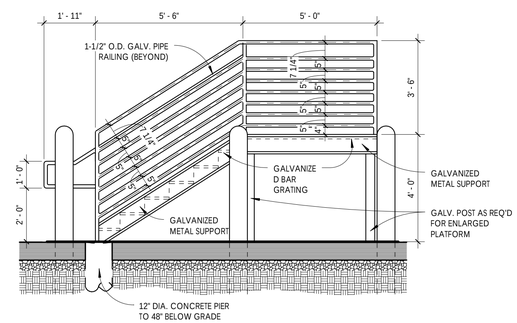
SITE KEYNOTES

1. NEW ASPHALT PAVEMENT
2. NEW CONCRETE CURB AND GUTTER - REFER TO CIVIL
3. CONCRETE WALK OVER STONE BASE
4. NEW GALVANIZED STAIR
5. NEW 6" DIA. CONCRETE FILLED PIPE BOLLARD W/ PAINTED FINISH
6. CONCRETE STOOP AND FOOTING
7. EXISTING ASPHALT PARKING LOT TO REMAIN



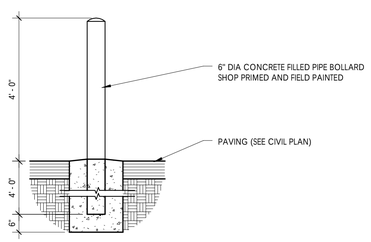
2 DOCK STAIR - ENLARGED PLAN

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



3 DOCKSTAIR - ELEVATION

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



4 CONCRETE FILLED PIPE BOLLARD

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

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PROJECT

PROPOSED BUILDING FOR:

VILLAGE OF PLEASANT PRAIRIE

DEPARTMENT OF PUBLIC WORKS
VILLAGE OF PLEASANT PRAIRIE:

CONSTRUCTION MANAGER

RILEY CONSTRUCTION

REVISIONS

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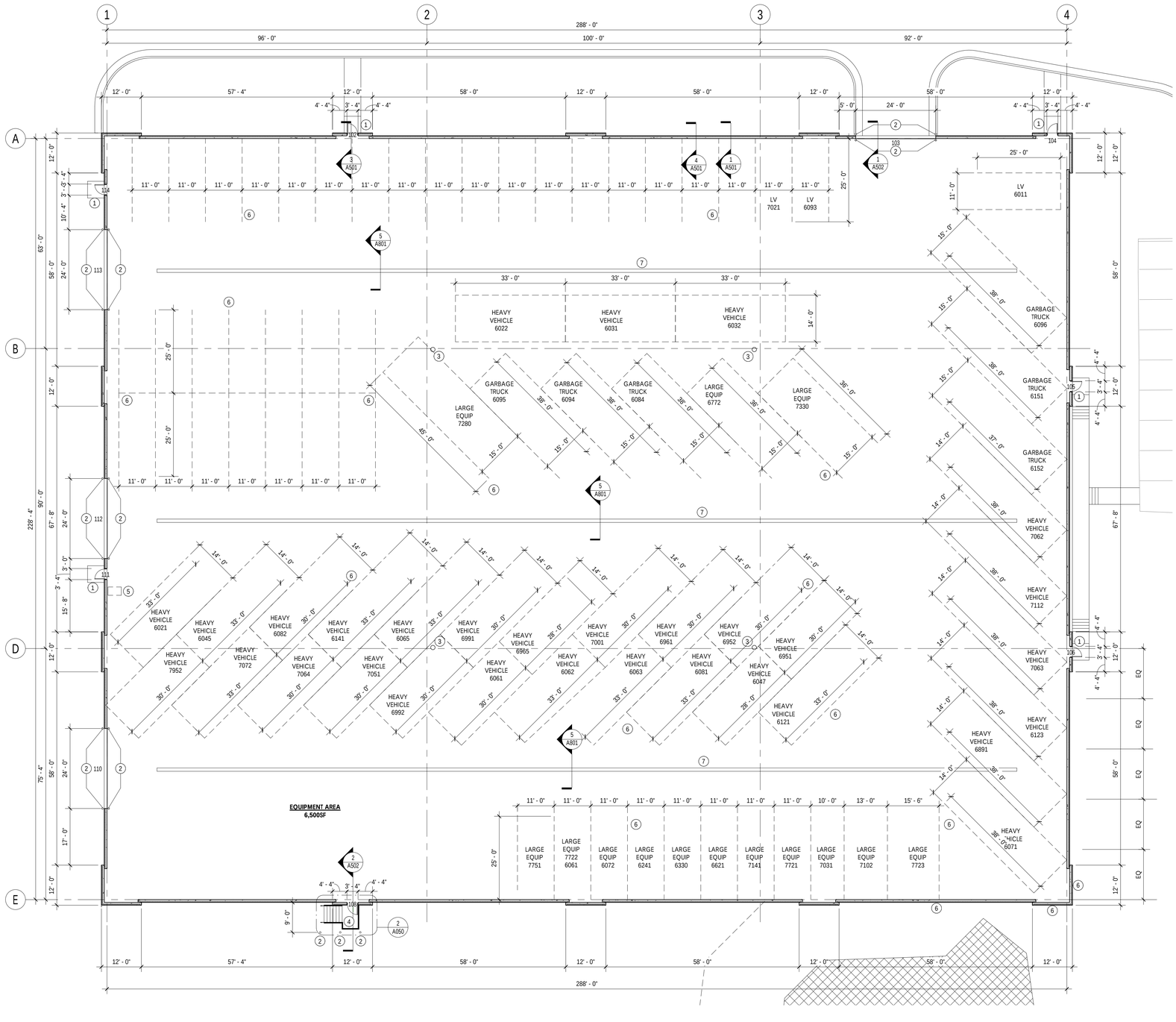
SHEET

ARCHITECTURAL SITE PLAN

A050



1 CONSTRUCTION PLAN - GROUND FLOOR

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

FLOOR PLAN KEYNOTES

1. CONCRETE STOOP - REFER TO STRUCTURAL FOR DETAILS
2. 6" DIA. CONCRETE FILLED BOLLARD
3. 4" WIDE YELLOW STRIPE
4. GALVANIZED METAL STAIRS
5. ROOF LADDER W/ CAGE INTERMEDIATE PLATFORM
6. 4" WIDE YELLOW STRIPING
7. TRENCH DRAIN

GENERAL PLAN NOTES

A. COMPLY WITH CODES, LAWS, ORDINANCES, RULES OF AUTHORITIES HAVING JURISDICTION.

B. GENERAL CONTRACTOR TO OBTAIN AND PAY FOR ALL PERMITS AND INSPECTIONS AS REQUIRED BY THE AUTHORITY HAVING JURISDICTION.

C. DO NOT SCALE THE DRAWINGS, WRITTEN DIMENSIONS OR NOTES SHALL GOVERN, AND IF THERE ARE ANY MISSING DIMENSIONS OR DISCREPANCIES, IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CONSULT THE ARCHITECT BEFORE PERFORMING ANY WORK IN QUESTION.

D. THE NOTE 'ALIGN' WILL SUPERSEDE ANY DIMENSIONAL NOTE AND IF THERE IS A DISCREPANCY, THE CONTRACTOR SHOULD CONSULT THE ARCHITECT.

E. IF THERE ARE ANY CONFLICTS BETWEEN FLOOR PLAN AND INTERIOR DETAILS AND ELEVATIONS, GENERAL CONTRACTOR TO CONSULT THE ARCHITECT.

F. ALL INTERIOR GYPSUM BOARD PARTITIONS SHOULD BE TAPED AND SANDED SMOOTH WITH NO VISIBLE JOINTS. ANY PATCH WORK THAT IS REQUIRED ON EXISTING WALLS THAT ARE ADJACENT TO NEW WALLS SHALL BE FLUSH.

G. DEVELOPER/TENANT WILL PROVIDE WORK NOTED "BY OTHER" OR "NIC" UNDER SEPARATE CONTRACT. GENERAL CONTRACTOR TO COORDINATE THIS WORK IN ORDER TO ASSURE APPROPRIATE INSTALLATION AND PROPER SEQUENCE OF INSTALLATION.

H. BUILDING DEVELOPER AND TENANT TO APPROVE KEYING ALL NEW AND RE-KEYING OF EXISTING HARDWARE.

I. CONTRACTOR TO PROVIDE ALL WALL REINFORCING OR BLOCKING REQUIRED FOR ALL HARDWARE AND FIXTURES.

J. ALL DIMENSIONS ARE TO FACE OF PRECAST, CENTERLINES OF COLUMN LINES, OR NOMINAL DIMENSION OF PARTITION WALLS. NON-MODULAR WALLS ARE DIMENSIONED TO CRITICAL FACES.

K. THE IMPRINTING OR ADHERING OF COMPANY CONTACT INFORMATION IS PROHIBITED ON ANY FINISHED SURFACE.

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DEPARTMENT OF PUBLIC WORKS

VILLAGE OF PLEASANT PRAIRIE:

CONSTRUCTION MANAGER

RILEY CONSTRUCTION

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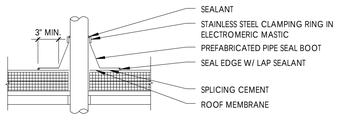
SHEET

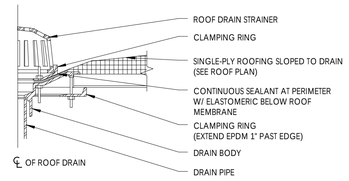
CONSTRUCTION PLAN

A101



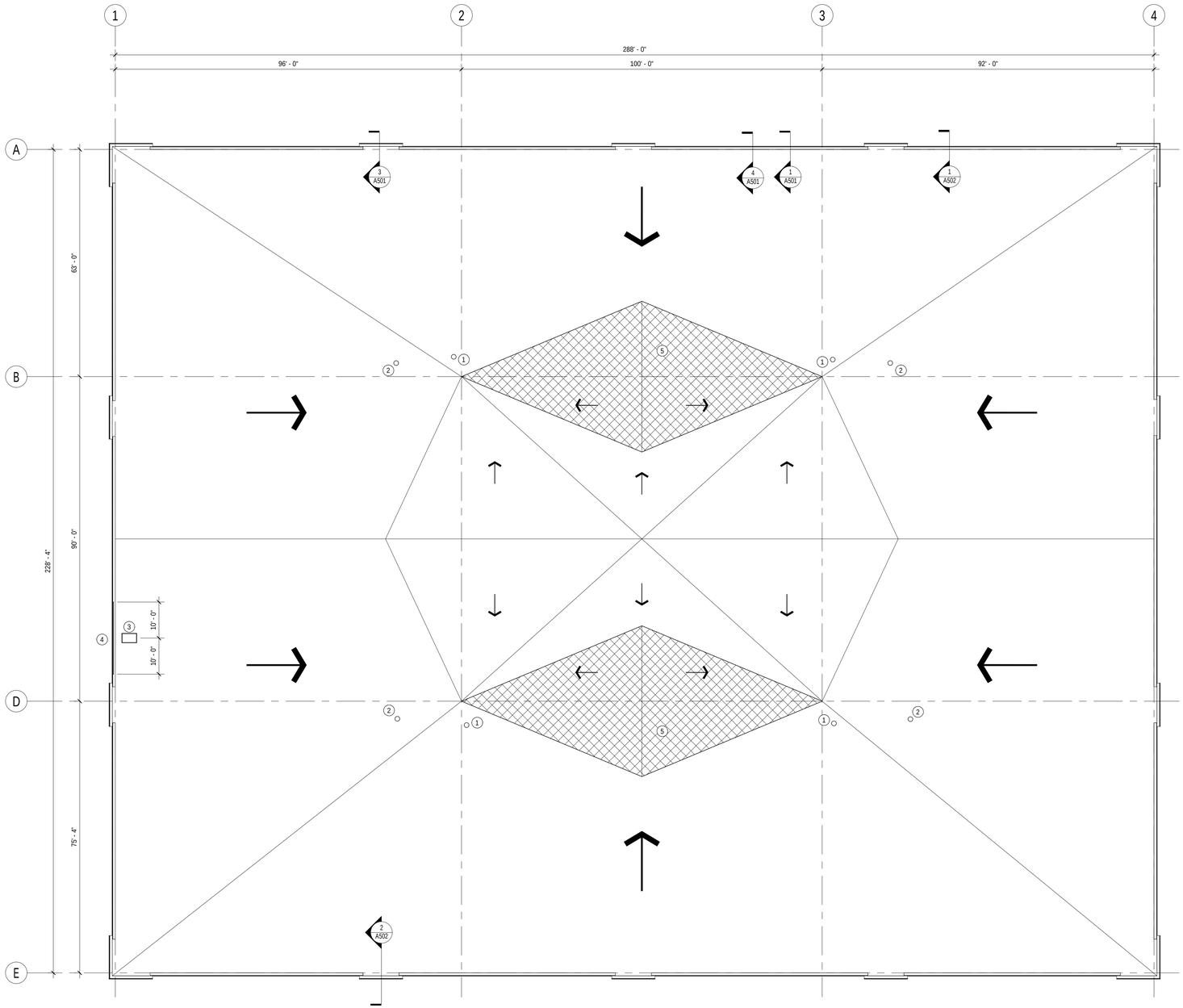
4 ROOF PIPE PENETRATION

SCALE: 1" = 1'-0"



3 ROOF DRAIN DETAIL

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



1 CONSTRUCTION PLAN - ROOF

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

ROOF PLAN KEYNOTES

1. PRIMARY ROOF DRAIN CONNECTED TO UNDERGROUND STORM
2. SECONDARY OVERFLOW DRAING TO DAYLIGHT AT 24" ABOVE GRADE
3. INSULATED 30" X 36" ROOF SCUTTLE W/ LADDER AND CAGE BELOW
4. 42" TALL GUARDRAIL W/ INTERMEDIATE SUPPORT. MECHANICALLY FASTEN TO PRECAST FACE
5. TAPERED ROOF INSULATION TO PROVIDE POSITIVE DRAINAGE TOWARD DRAINS

GENERAL ROOF NOTES

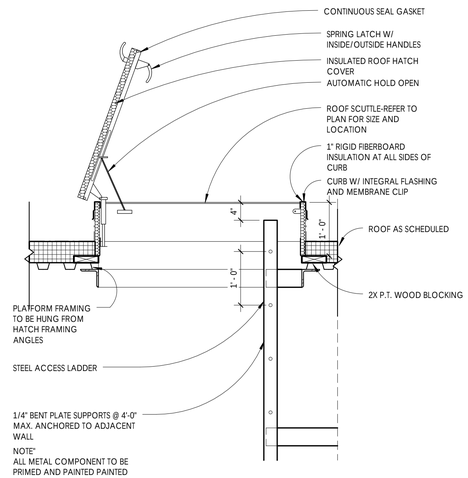
A. CONSTRUCTION MANAGER TO COORDINATE AND VERIFY ALL ROOF PENETRATIONS WITH ALL SUB-CONTRACTORS

B. PLUMBING DESIGN-BUILD CONTRACTOR TO DESIGN THE OVERFLOW SCUPPER TO HANDLE RELIEF

C. PROVIDE TAPERED INSULATION SADDLES AND CRICKETS AS REQUIRED TO ENSURE POSITIVE DRAINAGE FROM ALL ROOF SCUTTLES AND MISCELLANEOUS ROOF PENETRATIONS

ROOF TYPES

ROOF TYPE #1 - TYPICAL BUILDING ROOF
BALLASTED STONE
45 MIL. EPDM MEMBRANE
2 LAYERS OF POLY-ISOCYANERATE BOARD WITH STAGGERED JOINTS
1-1/2" METAL DECKING
SLOPED SUPER STRUCTURE TO DRAINS



2 ROOF ACCESS LADDER

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

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spsarchitects.com

PROJECT

PROPOSED BUILDING FOR:

VILLAGE OF PLEASANT PRAIRIE

DEPARTMENT OF PUBLIC WORKS
VILLAGE OF PLEASANT PRAIRIE:

CONSTRUCTION MANAGER

RILEY CONSTRUCTION

REVISIONS

NO.	DESCRIPTION	DATE

INFORMATION

PROJECT ARCHITECT	SPS
PROJECT MANAGER	MAM
PROJECT NUMBER	RCC-15-785
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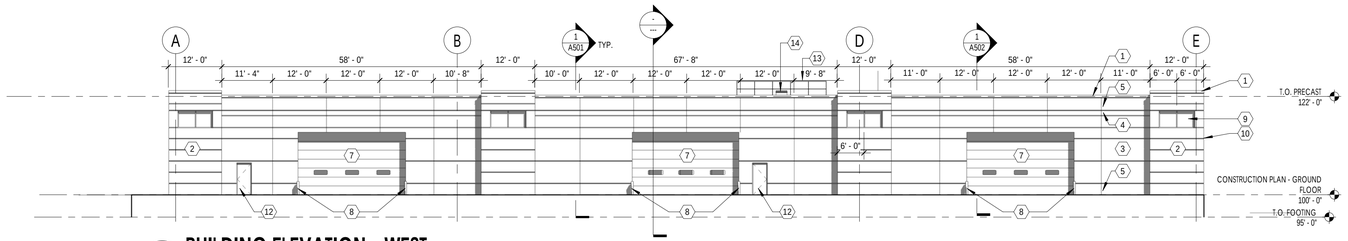
SHEET

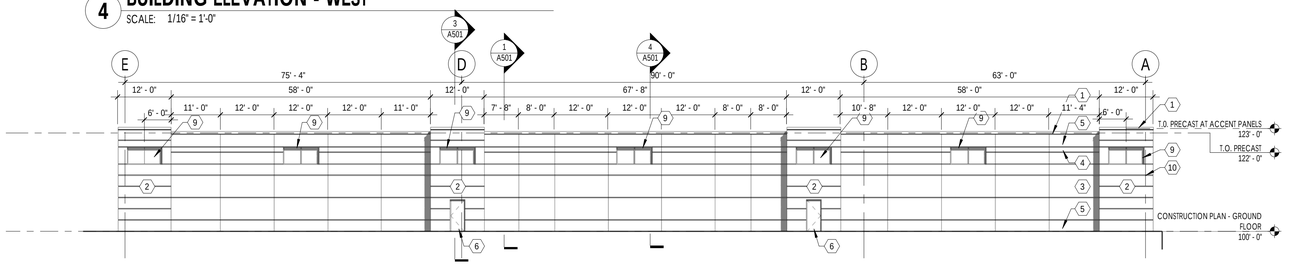
CONSTRUCTION PLAN - ROOF

A102



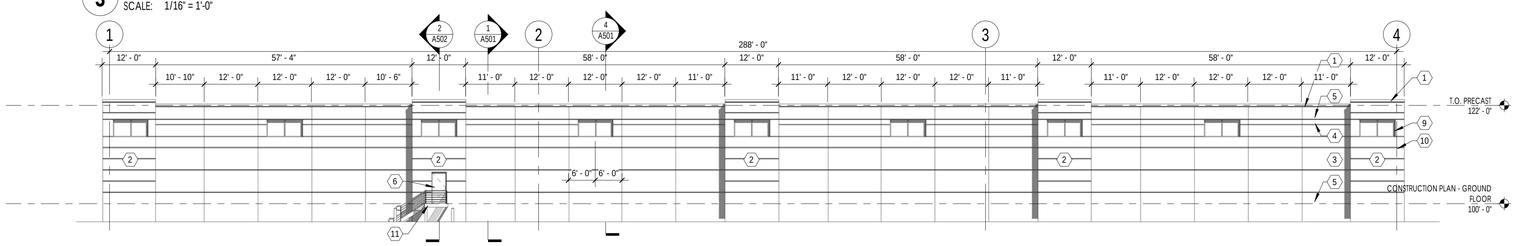
4 BUILDING ELEVATION - WEST

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



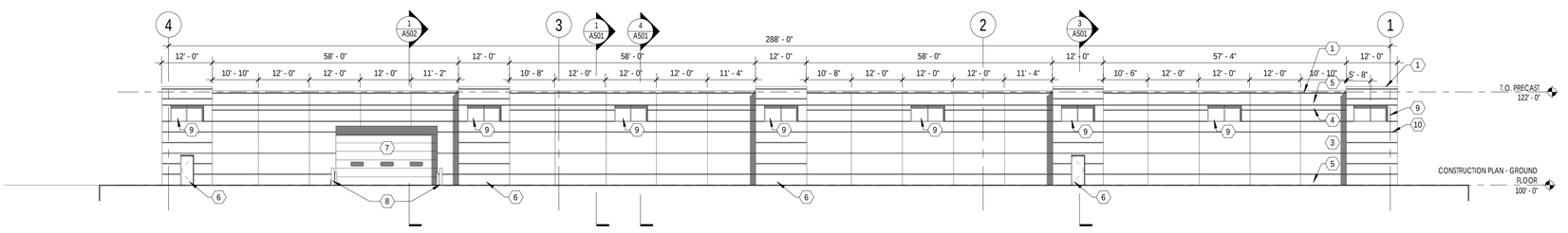
3 BUILDING ELEVATION - EAST

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



2 BUILDING ELEVATION - SOUTH

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



1 BUILDING ELEVATION - NORTH

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

ELEVATION KEYNOTES

1. PREFINISHED METAL COPING - AM1
2. INSULATED PRECAST WALL PANEL WITH PAINT FINISH - EPT3
3. INSULATED PRECAST WALL PANEL WITH PAINT FINISH - EPT1
4. INSULATED PRECAST WALL PANEL WITH PAINT FINISH - EPT 4
5. INSULATED PRECAST WALL PANEL WITH PAINT FINISH - EPT 2
6. INSULATED HM DOOR AND FRAME W/ PAINT FINISH - EPT 5
7. INSULATED OVERHEAD DOOR- WHITE
8. 6" O.D. CONCRETE FILLED PIPE BOLLARD W/ PAINT FINISH - EPT 7
9. ALUMINUM STOREFRONT FRAMING W/ INSULATED VISION GLAZING 4' TALL X 8' WIDE - CENTER IN PRECAST PANEL, TYPICAL.
10. REVEAL IN PRECAST CONCRETE PANEL - SEE 4/A801
11. STEEL DOCK STAIR - SEE SHEET A060
12. INSULATED HM DOOR AND FRAME W PAINT FINISH - EPT6
13. 1-1/2" O.D. PIPE RAILING W/ SHOP PRIMER AND FIELD PAINT - EPT7
14. INSULATED ROOF HATCH

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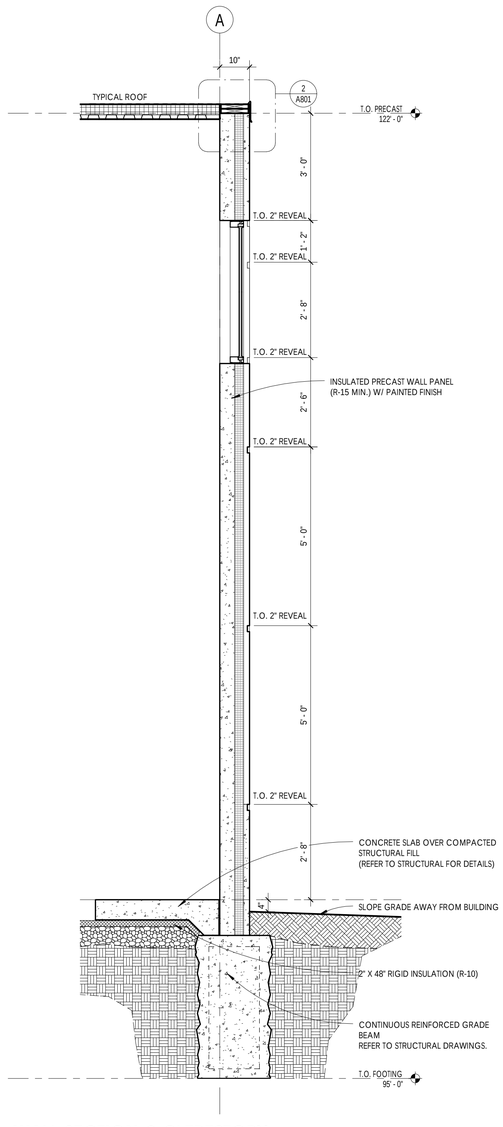
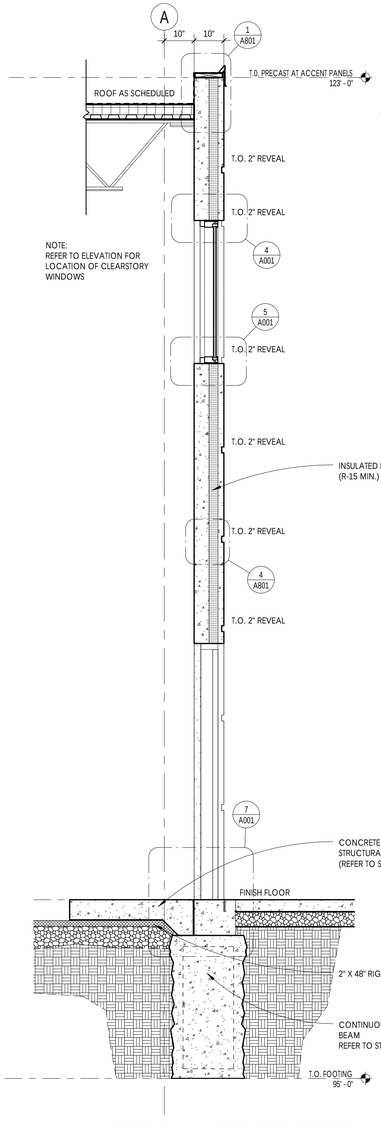
BUILDING ELEVATIONS

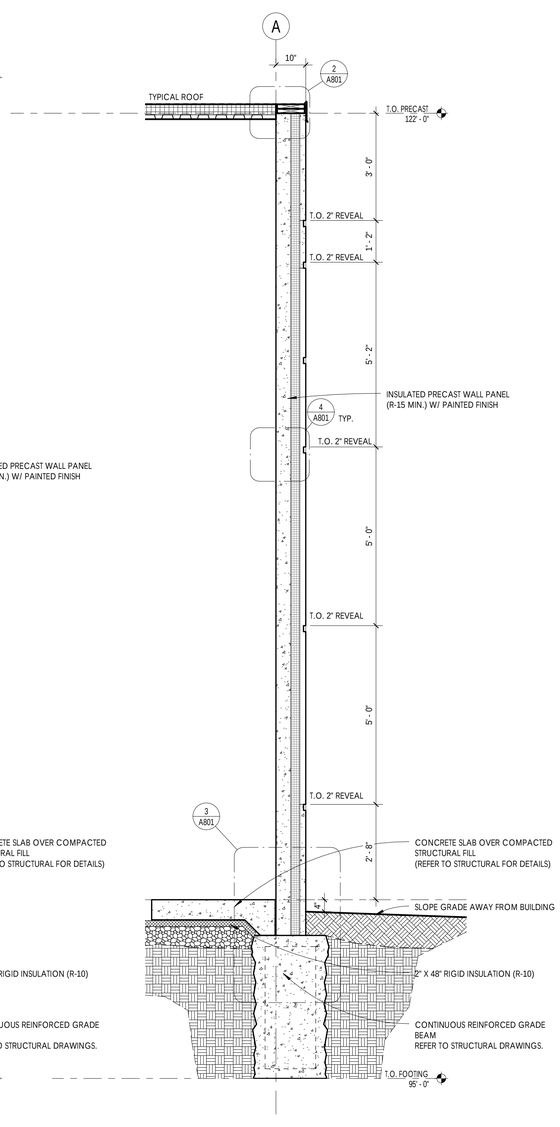
A401



4 WALL SECTION @ CLERESTORY
SCALE: 1/2" = 1'-0"



3 WALL SECTION AT SERVICE DOORS
SCALE: 1/2" = 1'-0"



1 TYPICAL WALL SECTION
SCALE: 1/2" = 1'-0"

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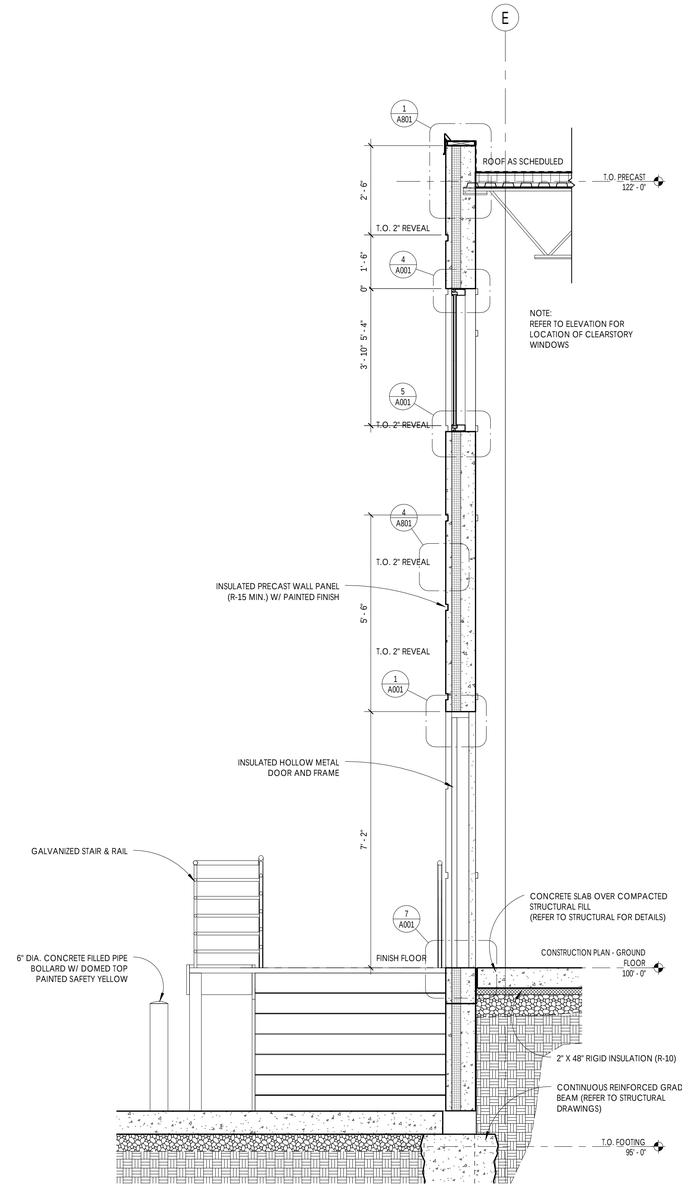
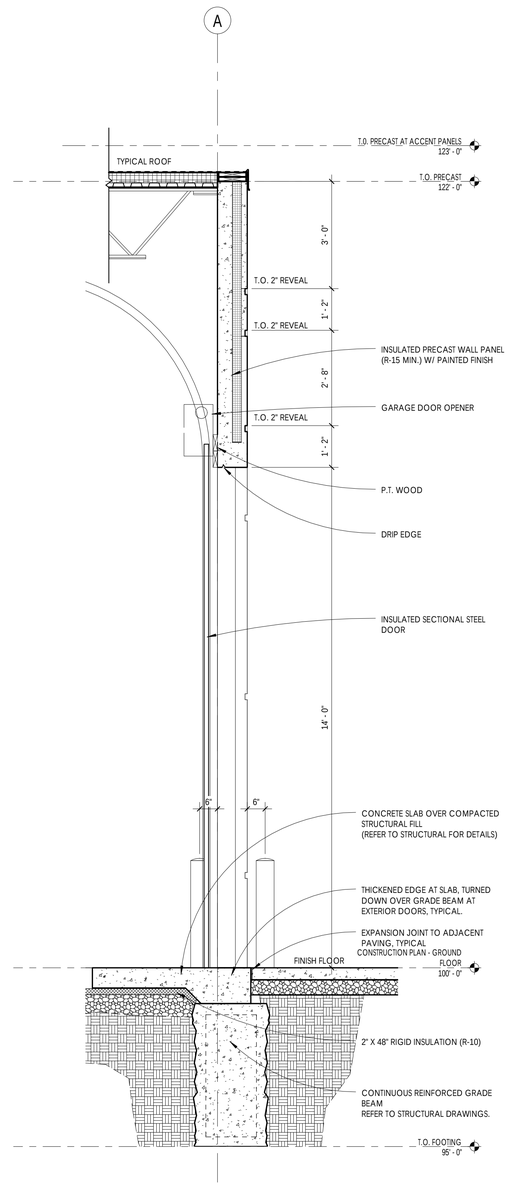
WALL SECTIONS

A501



2 WALL SECTION @ DOCK STAIRS

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



1 WALL SECTION @ OVERHEAD DOORS

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

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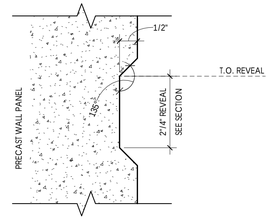
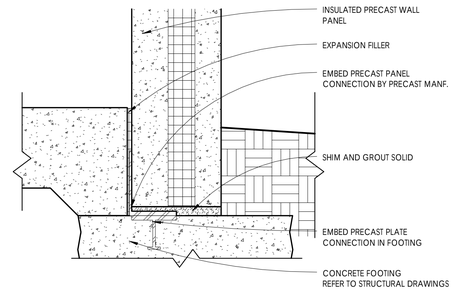
WALL SECTIONS

A502



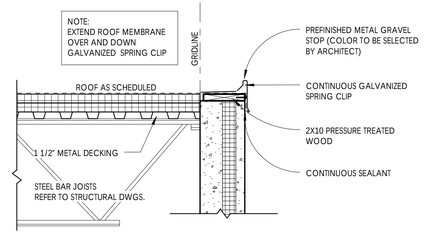
4 TYPICAL PRECAST REVEAL

SCALE: 6" = 1'-0"



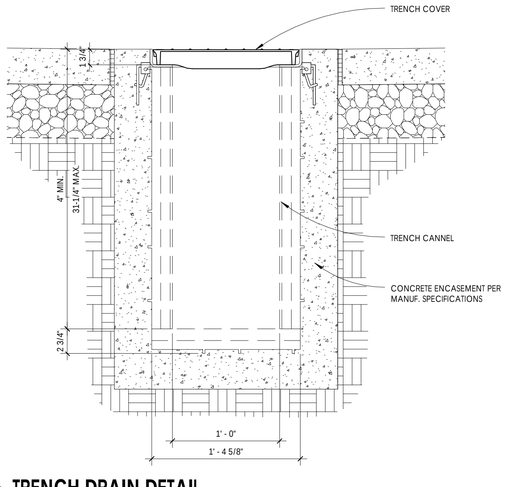
3 PRECAST CONNECTION @ FOOTING

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



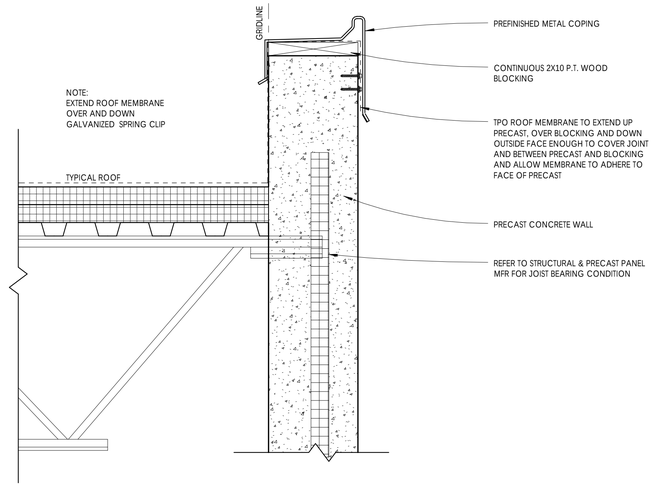
2 T.O. PRECAST

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



5 TRENCH DRAIN DETAIL

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



1 TOP OF PARAPET WALL

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

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PROJECT DETAILS

A801

► BUILDING CODES
- DESIGN AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE PROVISIONS OF THE 2009 WISCONSIN COMMERCIAL BUILDING CODE AS CONTAINED IN CHAPTERS SPS 361 TO 366 OF THE WISCONSIN ADMINISTRATIVE CODE.
  - OCCUPANCY CATEGORY — II

► DESIGN LOADS AND DATA
- SOIL LOADS (ASSUMED)
  - ACTIVE SOIL PRESSURE — 40 PSF PER FOOT OF DEPTH
  - AT-REST SOIL PRESSURE — 60 PSF PER FOOT OF DEPTH
  - PASSIVE SOIL PRESSURE — 375 PSF PER FOOT OF DEPTH
  - SURCHARGE LOAD — 125 PSF
- SUPERIMPOSED LOADS
  - ROOF
    - DEAD — 30 PSF TO JOISTS; 34 PSF TO JOIST GIRDERS
    - LIVE — 20 PSF
- ROOF LOADS
  - GROUND SNOW (Pg) — 30 PSF
  - SNOW DENSITY — 17.9 PCF
  - ROOF EXPOSURE — PARTIALLY EXPOSED
  - SNOW IMPORTANCE FACTOR (Is) — 1.0
  - SNOW EXPOSURE FACTOR (Ce) — 1.0
  - THERMAL FACTOR - BUILDING (Ct) — 1.1
  - FLAT ROOF SNOW LOAD (Pf) - BUILDING — 25 PSF*
    - *:25 PSF USED
  - DRIFT LOAD — PER ASCE 7-05 AS NOTED ON DRAWINGS
  - MECHANICAL EQUIPMENT, PIPING AND ROOF TOP AHU'S — AS NOTED ON DRAWINGS
- WIND DATA
  - BASIC WIND SPEED (3 SECOND GUST) — 90 MPH
  - BUILDING ENCLOSURE — ENCLOSED
  - EXPOSURE — B
  - WIND IMPORTANCE FACTOR (Iw) — 1.0
  - WIND DIRECTIONALITY FACTOR (Kd) — 0.85
  - TOPOGRAPHIC FACTOR (Kzt) — 1.0
  - GUST FACTOR (BUILDING IS RIGID) (G) — 0.85
  - INTERNAL PRESSURE COEFFICIENT (GCpi) — ± 0.18
  - ANALYSIS PROCEDURE — ANALYTICAL
  - EDGE ZONE WIDTH (a) — 9 FT
  - MEAN ROOF HEIGHT (h) — 22 FT
  - ROOF PLANE SLOPE (Θ) — 1.20 DEGREES
  - COMPONENTS AND CLADDING — SEE ADJACENT TABLE
- SEISMIC DATA
  - SEISMIC IMPORTANCE FACTOR — 1.00
  - MAPPED SPECTRAL RESPONSE ACCELERATION FOR SHORT PERIODS (Ss) — 0.128
  - MAPPED SPECTRAL RESPONSE ACCELERATION FOR 1 SECOND PERIOD (S1) — 0.050
  - SITE CLASS PER ASCE CHAPTER 20.1 — D
  - DESIGN SPECTRAL RESPONSE ACCELERATION FOR SHORT PERIODS (SDs) — 0.137
  - DESIGN SPECTRAL RESPONSE ACCELERATION FOR 1 SECOND PERIOD (SD1) — 0.080
  - SEISMIC DESIGN CATEGORY — B
  - ANALYSIS PROCEDURE — EQUIVALENT LATERAL FORCE
  - SEISMIC RESPONSE COEFFICIENT (Cs) — 0.046

► MATERIAL STRENGTHS AND STANDARDS

THE MATERIAL STRENGTHS AND STANDARDS LISTED HERE REPRESENT A SELECTED SUMMARY OF THE REQUIREMENTS NOTED IN THE SPECIFICATIONS. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION. IN CASE OF DISCREPANCY BETWEEN THESE NOTES AND THE SPECIFICATIONS, THESE NOTES SHALL GOVERN.
- SOILS
  - DESIGN SOIL BEARING CAPACITY FOR SPREAD/STRIP FOOTINGS — 1,500 PSF
  - MODULUS OF SUB-GRADE REACTION — 150 PCI
  - COEFFICIENT OF SLIDING FRICTION (CONCRETE –SOIL) — 0.32 (ASSUMED)
- CONCRETE (28 DAY STRENGTH)
  - FOOTINGS — F'c = 3,000 PSI
  - FOUNDATION WALLS, INTEGRAL PIERS — F'c = 4,000 PSI
  - INTERIOR SLAB-ON-GRADE — F'c = 4,000 PSI
  - EXTERIOR SLAB-ON-GRADE — F'c = 4,500 PSI
- REINFORCING STEEL
  - WELDED WIRE FABRIC, PROVIDED IN FLAT SHEETS ONLY (ASTM A185) — Fy = 65,000 PSI
  - DEFORMED BARS (ASTM A615, GRADE 60) — Fy = 60,000 PSI
- MASONRY
  - SOLID CONCRETE BRICK (ASTM C55) — 3,500 PSI
  - CONCRETE MASONRY UNIT ASSEMBLY — F'm = 2,250 PSI
  - CONCRETE MASONRY UNIT (ASTM C90 - LIGHTWEIGHT) — 3,275 PSI
  - MORTAR (ASTM C270) — TYPE M OR S
  - GROUT (ASTM C476) — F'c = 3,000 PSI
  - ANCHOR RODS (ASTM F1554, GRADE 36) — Fy = 36,000 PSI
- STRUCTURAL STEEL (SHAPES)
  - WF, WT SECTIONS (ASTM A992) — Fy = 50,000 PSI; Fu = 65,000 PSI
  - M, S, HP SECTIONS, CHANNELS, ANGLES, PLATES (ASTM A36) — Fy = 50,000 PSI; Fu = 58,000 PSI
  - HSS SHAPES – RECTANGULAR (ASTM A500, GRADE B) — Fy = 46,000 PSI; Fu = 58,000 PSI
  - HSS SHAPES – ROUND (ASTM A500, GRADE B) — Fy = 42,000 PSI; Fu = 58,000 PSI
  - STEEL PIPE (ASTM A53, GRADE B) — Fy = 35,000 PSI; Fu = 60,000 PSI
  - PLATES (ASTM A36) — Fy = 36,000 PSI; Fu = 58,000 PSI
- STRUCTURAL STEEL (CONNECTIONS)
  - ANCHOR RODS (ASTM F1554, GRADE 36) — Fy = 36,000 PSI
  - HIGH STRENGTH BOLTS (1 1/2" MAXIMUM DIAMETER) — A325 AS NOTED
  - WELDING ELECTRODES — E70XX
  - SHEAR STUD CONNECTORS (ASTM A108, GRADE 1010 THROUGH 1020) — Fy = 50,000 PSI
  - DOWEL BAR ANCHORS (ASTM A496) — Fy = 70,000 PSI
  - THREADED RODS (ASTM A36) — Fy = 36,000 PSI
  - GROUT (ASTM C1107) — F'c = 5,000 PSI
- COLD-FORMED METAL FRAMING
  - COLD-FORMED MATERIAL - 18 GAUGE AND THINNER (ASTM A653, GRADE 33) — Fy = 33,000 PSI
  - COLD-FORMED MATERIAL - 16 GAUGE AND THICKER (ASTM A653, GRADE 50) — Fy = 50,000 PSI
  - ANCHOR RODS (ASTM F1554, GRADE 36) — Fy = 36,000 PSI
  - CONNECTOR PLATES (ASTM A36) — Fy = 36,000 PSI
  - CONNECTOR BOLTS (ASTM A307, GRADE A) — Fu = 36,000 PSI
  - WELDING ELECTRODES — E60XX
  - GALVANIZING THICKNESS — G60

► GENERAL NOTES
- EXISTING CONDITIONS

  INFORMATION PERTAINING TO EXISTING CONDITIONS GIVEN ON THE STRUCTURAL DRAWINGS REPRESENTS THE ACTUAL EXISTING FIELD CONDITION TO THE BEST OF OUR KNOWLEDGE. R.A. SMITH NATIONAL, INC. MAKES NO WARRANTY AS TO THEIR ACCURACY. CONTRACTOR SHALL FIELD VERIFY EXISTING ELEVATIONS, DIMENSIONS AND BUILDING CONDITIONS AFFECTING THE WORK BY DIRECT SURVEY AND MEASUREMENT PRIOR TO THE FABRICATION, ERECTION OR CONSTRUCTION OF ANY ITEM IMPACTED BY EXISTING CONDITIONS. REPORT DISCREPANCIES BETWEEN THE CONTRACT DOCUMENTS AND FIELD CONDITIONS FOR REVIEW. ANY WORK PERFORMED PRIOR TO THE RESOLUTION OF THE DISCREPANCIES IS SUBJECT TO REMOVAL AND REPLACEMENT AT THE CONTRACTORS EXPENSE.

  EXISTING STRUCTURE TO REMAIN IS SHOWN WITH LIGHT GRAY LINES. EXISTING STRUCTURE TO BE REMOVED IS NOT GENERALLY SHOWN ON STRUCTURAL DRAWINGS - SEE ARCHITECTURAL DRAWINGS FOR DEMOLITION DRAWINGS.

  ALL EXISTING STRUCTURE TO REMAIN TO BE SUPPORTED BY NEW CONSTRUCTION SHALL BE SHORED UNTIL NEW CONSTRUCTION IS IN PLACE, COMPLETED, AND CAPABLE OF SUPPORTING THE EXISTING STRUCTURE. EXISTING STRUCTURE TO REMAIN THAT IS AFFECTED, BUT NOT SUPPORTED, BY NEW CONSTRUCTION SHALL BE SHORED UNTIL IT IS NO LONGER AFFECTED BY CONSTRUCTION ACTIVITIES.
- CONSTRUCTION

  UNLESS SPECIFICALLY NOTED OTHERWISE, BUILDING STRUCTURE HAS BEEN DESIGNED FOR THE FINAL COMPLETED CONDITION ONLY, AND HAS NOT BEEN ANALYZED, INVESTIGATED OR DESIGNED FOR OVERALL STRUCTURE, OR INDIVIDUAL MEMBER, STABILITY DURING CONSTRUCTION. CONTRACTOR SHALL PROVIDE AND MAINTAIN TEMPORARY BRACING AND SUPPORTS FOR ALL STRUCTURAL ELEMENTS, BOTH INDIVIDUALLY AND COLLECTIVELY, AS REQUIRED AT EVERY STAGE OF CONSTRUCTION UNTIL THE FINAL COMPLETION OF THE STRUCTURE. NO PORTION OF THE BUILDING STRUCTURE, WHILE UNDER CONSTRUCTION IS INTENDED TO BE STABLE IN THE ABSENCE OF THE CONTRACTORS TEMPORARY BRACES AND SUPPORTS, WHICH SHALL ADDITIONALLY PROVIDE SUPPORT FOR ALL CONSTRUCTION LOADING. MATERIALS AND EQUIPMENT SHALL BE STORED, TRANSPORTED AND INSTALLED IN A MANNER THAT WILL NOT EXCEED THE DESIGN FLOOR LOADING.

  CONTRACTOR IS SOLELY RESPONSIBLE FOR THE MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES OF CONSTRUCTION INCLUDING, BUT NOT LIMITED TO, TEMPORARY BRACING, SUPPORTS, SHORING, FORMING TO SUPPORT IMPOSED CONSTRUCTION LOADS, AND OTHER SIMILAR ITEMS.

  STRUCTURAL DOCUMENTS MAY REFER TO OSHA REQUIREMENTS. SUCH REFERENCES ARE INCIDENTAL, AND ARE NOT INTENDED TO IDENTIFY ALL APPLICABLE OSHA REQUIREMENTS.
- COMPLETENESS

  INFORMATION CONTAINED IN THE GENERAL NOTES IS ONLY A PARTIAL SUMMARY OF PROJECT REQUIREMENTS. SEE SPECIFICATIONS, PLANS AND DETAILS FOR ADDITIONAL REQUIREMENTS.

  USE ONLY DIMENSIONS INDICATED ON THE DRAWINGS. DO NOT MANUALLY SCALE THE DRAWINGS OR USE ANY DIMENSIONS MEASURED FROM ELECTRONIC DRAWING FILES.

  UNLESS NOTED OTHERWISE, CENTERLINE OF FLOOR FRAMING ELEMENTS COINCIDES WITH COLUMN CENTERLINES, AND FRAMING ELEMENTS ARE EQUALLY SPACED BETWEEN ADJACENT COLUMN CENTERLINES.

  MAJOR OPENING LOCATIONS AND SIZES ARE INDICATED ON THE STRUCTURAL DRAWINGS - SMALLER OPENINGS AND SLEEVES REQUIRED TO ACCOMMODATE VARIOUS BUILDING SERVICES MAY NOT BE NOTED. CONTRACTOR TO VERIFY THE SIZE AND LOCATION OF ALL ARCHITECTURAL, MECHANICAL, ELECTRICAL AND PLUMBING OPENINGS, INCLUDING CLEARANCE REQUIREMENTS CONTAINED IN THE RESPECTIVE DISCIPLINE DOCUMENTS FOR INSTALLATION AND IN-PLACE OPERATION OF THE RESPECTIVE EQUIPMENT OR ITEMS. UNDER NO CIRCUMSTANCES MAY PENETRATIONS BE MADE IN ANY STRUCTURAL ELEMENT AFTER FINAL PLACEMENT IN THE BUILDING STRUCTURE, WITHOUT WRITTEN APPROVAL OF THE STRUCTURAL ENGINEER.

  CONSULT ARCHITECTURAL, MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS AND MANUFACTURERS SPEC SHEETS FOR LOCATIONS AND DIMENSIONS OF PADS, CURBS, EQUIPMENT SUPPORTS, DEPRESSIONS, INSERTS, DRIPS, REGLETS, REVEALS, FINISHES AND OTHER MISCELLANEOUS PROJECT REQUIREMENTS THAT NECESSITATE INCIDENTAL ACCOMMODATION BY THE BUILDING STRUCTURE BUT ARE NOT SHOWN ON THE STRUCTURAL DRAWINGS.

- GENERAL

  THE STRUCTURE HAS BEEN DESIGNED AS UNRESTRAINED FOR THE PURPOSE OF FIRE RATING AND FIREPROOFING ASSEMBLY EVALUATIONS.

  STRUCTURAL COMPONENTS HAVE NOT BEEN DESIGNED FOR VIBRATORY EQUIPMENT UNLESS NOTED OTHERWISE. PLACE VIBRATORY EQUIPMENT AND EQUIPMENT SENSITIVE TO VIBRATIONS ON VIBRATION ISOLATORS SPECIFICALLY DESIGNED FOR THE EQUIPMENT.

  LATERAL BRACING FOR NON-STRUCTURAL ELEMENTS DESIGNED AND DETAILED BY COMPONENT SUPPLIERS SHALL BE DESIGNED TO APPLY LOADS DIRECTLY TO FLOOR OR ROOF DIAPHRAGMS. BRACES SHALL NOT ATTACH DIRECTLY TO BOTTOM FLANGES OF BEAMS OR BOTTOM CHORDS OF JOISTS UNLESS THE COMPONENT SUPPLIER PROVIDES ADDITIONAL BRACING FROM THOSE ELEMENTS TO THE FLOOR OR ROOF DIAPHRAGM AT EACH ATTACHMENT POINT.

  HOLES, NOTCHES, BLOCK-OUTS AND OTHER SIMILAR FIELD MODIFICATIONS TO STRUCTURAL MEMBERS NOT SPECIFICALLY DETAILED ON THE STRUCTURAL DRAWINGS OR APPROVED SHOP DRAWINGS ARE NOT PERMITTED.

  EXCEPT AS NOTED BELOW, ALL FUTURE EXPANSION IS ASSUMED TO BE COMPLETELY SELF SUPPORTING FOR BOTH GRAVITY AND LATERAL LOADS.
- FOUNDATIONS AND EARTHWORK

  REMOVE EXISTING SURFICIAL TOP SOIL AND VEGETATION FROM WITHIN THE BUILDING AREA AND A MINIMUM TEN FEET BEYOND. EXCAVATE MATERIAL TO PROPOSED SLAB-ON-GRADE PROOFROLL WITH A HEAVY RUBBER TIRED VEHICLE SOILS WHICH HEAVE, PUMP OR DO NOT READILY COMPACT SHALL BE EXCAVATED AND REPLACED WITH ENGINEERED FILL.

  SUBGRADE PREPARATION FOR FOOTINGS SHALL CONSIST OF EXCAVATION TO REQUIRED ALLOWABLE BEARING CAPACITY SOILS AT OR NEAR DESIGN FOOTING ELEVATIONS. WHERE UNSUITABLE SOIL IS ENCOUNTERED AT NOMINAL BEARING DEPTH, SEE OVER-EXCAVATION DETAIL.

  ALL COMPACTION REQUIREMENTS REFER TO % OF MAXIMUM DRY DENSITY PER ASTM D-1557 MODIFIED PROCTOR. GRANULAR STRUCTURAL FILL BENEATH FOOTINGS SHALL BE PLACED IN LAYERS NO MORE THAN 8" THICK AND EACH LAYER SHALL BE COMPACTED TO 95%. COHESIVE FILL APPROVED BY THE GEOTECHNICAL CONSULTANT SHALL BE PLACED IN LAYERS NO THICKER THAN 8", AND EACH LAYER SHALL BE COMPACTED TO 95% MOISTURE CONDITION FILL MATERIALS AS REQUIRED TO OBTAIN PROPER COMPACTION. COHESIVE SOILS OR GRANULAR SOILS WITH A SIGNIFICANT PERCENT OF COHESIVE FINES SHALL BE CONDITIONED TO WITHIN 3% OF OPTIMUM MOISTURE CONTENT AT COMPACTION.

  ALL ACTIVITIES CONCERNING PREPARATION AND VERIFICATION OF BEARING SOILS FOR SLAB-ON-GRADE AND FOOTINGS SHALL BE SUPERVISED AND APPROVED BY A QUALIFIED GEOTECHNICAL ENGINEER.

  COLUMNS, PIERS, AND SPREAD FOOTINGS ARE CENTERED ON GRIDLINES UNLESS NOTED OTHERWISE. CONTINUOUS FOOTINGS ARE CENTERED ON WALLS ABOVE UNLESS NOTED OTHERWISE.

  BACKFILL UNIFORMLY ON EACH SIDE OF FOUNDATION WALLS, GRADE BEAMS AND OTHER SIMILAR ELEMENTS. DO NOT BACKFILL AGAINST ANY STRUCTURAL ELEMENT UNTIL THAT ELEMENT HAS ATTAINED FULL DESIGN STRENGTH. DO NOT BACKFILL AGAINST BASEMENT WALLS UNTIL TOP AND BOTTOM OF WALL IS BRACED BY FLOOR FRAMING AND SLAB-ON-GRADE.

  TOP OF FOOTING ELEVATION NOTED ON DRAWINGS REPRESENT CONSIDERED ENGINEERING JUDGMENTS ABOUT PROTECTION FROM FROST AND MINIMUM DEPTH TO SOILS CAPABLE OF PROVIDING DESIGN SOIL BEARING CAPACITY. UNCERTAINTIES INHERENT IN DETERMINING THE ELEVATION OF SOILS ADEQUATE TO PROVIDE DESIGN BEARING CAPACITY MAY REQUIRE FOUNDATIONS TO BE LOWERED – IN NO CASE SHALL TOP OF FOOTING BE HIGHER THAN NOTED. A GEOTECHNICAL ENGINEER SHALL VERIFY THAT SOIL AT THE FOOTING BASE IS ADEQUATE TO PROVIDE THE REQUIRED DESIGN SOIL BEARING CAPACITY.

  FOR GENERAL INFORMATION AND SPECIFIC RECOMMENDATIONS AND REQUIREMENTS PERTAINING TO PROJECT SITE, REFER TO THE PROJECT GEOTECHNICAL REPORT PREPARED BY GESTRA, PROJECT NO. 15300-40, DATED 12/22/2015.
- CAST-IN-PLACE CONCRETE

  DESIGN AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE PROVISIONS OF ACI 318 –05 EXCEPT WHERE MORE RESTRICTIVE REQUIREMENTS ARE NOTED.

  REINFORCING CLEAR COVER SHALL BE AS NOTED BELOW UNLESS SPECIFICALLY NOTED OTHERWISE ON STRUCTURAL DRAWINGS.
  - CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH — 3"
  - CONCRETE EXPOSED TO EARTH OR WEATHER
    - #3 - #5 BARS — 1-1/2"
    - #6 - #18 BARS — 2"
  - CONCRETE NOT EXPOSED TO EARTH OR WEATHER
    - WALLS - #3 THRU #11 BARS — 3/4"
    - WALLS - #14 THRU #18 BARS — 1-1/2"
    - STRUCTURAL SLABS - TOP, BOTTOM — 1"
    - JOIST TIES AND MAIN REINFORCING - TOP, BOTTOM , SIDES — 1-1/2"
    - BEAM TIES - TOP, BOTTOM, SIDES — 1-1/2"
    - BEAM MAIN REINFORCING - TOP, BOTTOM, SIDES — 2"
    - COLUMN TIES — 1-1/2"
    - COLUMN MAIN REINFORCING — 2"

  PROVIDE (2) #5 BARS AROUND ALL OPENINGS AND (2) #5 DIAGONAL BARS AT ALL OPENING AND RE-ENTRANT CORNERS. BARS SHALL EXTEND A MINIMUM OF 24" PAST OPENING.

  ALL BAR SPLICES SHALL BE CONTACT LAP SPLICED USING CLASS B TENSION LAP LENGTHS, WITH ADJACENT LAPS STAGGERED A MINIMUM OF 3'-0" UNLESS DETAILED OTHERWISE. SEE ADJACENT TABLES FOR REQUIRED LAP AND DEVELOPMENT LENGTHS.

  FIELD WELDING OF ASTM A615 REINFORCING STEEL IS NOT PERMITTED. FIELD BENDING OF REINFORCING STEEL IS NOT PERMITTED EXCEPT WHERE SPECIFICALLY DETAILED ON STRUCTURAL DRAWINGS.

  CORING OF COLUMNS, WALLS, BEAMS, JOISTS AND SLABS IS NOT PERMITTED. PROVIDE STEEL SLEEVES FOR ALL PENETRATIONS AT ALL LOCATIONS APPROVED BY THE STRUCTURAL ENGINEER PRIOR TO PLACING CONCRETE.

CONCRETE MIX DESIGN

CLASS	TYPE OF CONSTRUCTION	SPECIFIED COMP STRENGTH AT 28 DAYS (PSI)	MAXIMUM AGGREGATE SIZE (IN)	MINIMUM LBS OF CEMENT PER CY (NOTE 6)	AIR ENTRAINMENT % +/- 1 1/2%	NOTES
1	ALL FOOTINGS	3,000	1.5	470	NONE	4
2	WALLS/PIERS	4,000	0.75	494	NONE	4
3	EXPOSED WALLS	4,000	0.75	540	6.0	5
4	INTERIOR SLAB-ON-GRADE	4,000	0.75	540	NONE	3,4
5	EXTERIOR SLAB-ON-GRADE	4,500	0.75	564	6.0	1,2,5
6	BOND BEAMS	3,000	0.375	470	NONE	4
7	MISCELLANEOUS NON-SCHEDULED CONCRETE WORK	3,000	0.75	470	6.0	1,5

NOTES:
1. AIR ENTRAINED CONCRETE, USE FOR EXTERIOR WALLS, EXTERIOR SLABS, WALKS, PLATFORMS, RAMPS, STEPS, PORTIONS OF PARKING RAMP AND OTHER CONCRETE EXPOSED TO FREEZING AND THAWING.
2. MAXIMUM WATER—CEMENTITIOUS RATIO BY WEIGHT SHALL BE 0.45.
3. MAXIMUM WATER—CEMENTITIOUS RATIO BY WEIGHT SHALL BE 0.50.
4. A MAXIMUM OF 50 PERCENT TOTAL REPLACEMENT OF PORTLAND CEMENT WITH GGBFS (GROUND GRANULATED BLAST—FURNACE SLAG) AND FLY ASH AT A 1:1 RATIO; UP TO 350 POUNDS, WITH A MAXIMUM 25 PERCENT FLY ASH. IF FLY ASH IS USED ALONE, LIMIT MAXIMUM REPLACEMENT TO 25 PERCENT.
5. A MAXIMUM OF 30 PERCENT TOTAL REPLACEMENT OF PORTLAND CEMENT WITH GGBFS (GROUND GRANULATED BLAST—FURNACE SLAG) AND FLY ASH AT A 1:1 RATIO WHERE FREEZE—THAW DURABILITY AND EXPOSURE T0 DEICERS IS LIKELY; UP TO 350 POUNDS, WITH A MAXIMUM 25 PERCENT FLY ASH. IF FLY ASH IS USED ALONE, LIMIT MAXIMUM REPLACEMENT TO 25 PERCENT.
6. MINIMUM CEMENT IS ONLY A REQUIREMENT WHERE BACKUP INFORMATION FOR THE MIX IS UNAVAILABLE.

- STRUCTURAL STEEL

  DESIGN, DETAILING, AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS AISC 360, THE CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES AISC 303 AND THE STEEL CONSTRUCTION MANUAL.

  TYPICAL DETAILS INDICATE GENERAL CRITERIA FOR DESIGN AND DETAILING OF CONNECTIONS. THEY ARE NOT INTENDED TO CONVEY COMPLETE INFORMATION CONCERNING SIZE AND QUANTITY OF CONNECTORS, PLATES, ANGLES, WELDS AND SIMILAR ITEMS THAT ARE DEVELOPED THROUGH THE DESIGN OF AN INDIVIDUAL CONNECTION FOR A SPECIFIC SET OF LOADS AND COMBINATIONS. DETAILS THAT CONVEY SPECIFIC COMPONENT INFORMATION ESTABLISH MINIMUM REQUIREMENTS AND ARE NOT INTENDED TO CONVEY A COMPLETE DESIGN UNLESS NOTED.

  UNLESS OTHERWISE NOTED, ALL STEEL TO STEEL FRAMING HAS BEEN SELECTED ASSUMING ATTACHMENTS FOR SHEAR ONLY, USING DOUBLE ANGLE OR DOUBLE BENT PLATE CONNECTIONS SHOP WELDED TO FRAMING MEMBER AND FIELD BOLTED TO SUPPORTING MEMBER WITH HIGH STRENGTH BOLTS IN BEARING. CONNECTIONS SHALL BE SYMMETRICAL ABOUT THE BEAM WEB. FABRICATORS PROPOSING TO USE ALTERNATIVE METHODS OF ATTACHMENT NOT SPECIFICALLY DETAILED ON STRUCTURAL DRAWINGS SHALL SUBMIT ALTERNATIVE FOR CONSIDERATION DURING BIDDING, AND SHALL BEAR ALL COSTS ASSOCIATED WITH REVIEW, ENGINEERING REDESIGN, AND APPROVAL OF ALTERNATIVE CONNECTIONS

  SINGLE PLATE SHEAR TAB CONNECTIONS MAY BE USED IN LIEU OF DOUBLE ANGLE OR DOUBLE BENT PLATE CONNECTIONS WHERE SPECIFICALLY NOTED ON DRAWINGS OR WHERE CONNECTION OF FRAMING MEMBER TO ONE SIDE OF A SUPPORT MEMBER IS MATCHED BY A SIMILAR CONNECTION ON THE OPPOSITE SIDE OF THE SAME SUPPORT MEMBER, AND WHERE BEAM SPANS DO NOT DIFFER BY MORE THAN 50% OF THE LARGER SPAN. SINGLE PLATE SHEAR

  TABS MAY NOT BE USED FOR CONNECTION OF FRAMING MEMBERS TO COLUMNS OR TO SPANDREL (EDGE) SUPPORT MEMBERS UNLESS SPECIFICALLY DETAILED ON DRAWINGS.

  CONNECTIONS FOR ALL STRUCTURAL STEEL BEAMS AND GIRDERS NOT SHOWN OR COMPLETELY DETAILED ON THE STRUCTURAL DRAWINGS SHALL BE DESIGNED BY AN ENGINEER REGISTERED IN THE STATE OF WISCONSIN AND RETAINED BY THE FABRICATOR, USING THE REACTIONS SHOWN. IF NO REACTION IS SHOWN, BEAM CONNECTIONS SHALL BE DESIGNED FOR 50 % OF THE TOTAL UNIFORM LOAD CAPACITY FOR THE GIVEN MEMBER SIZE, SPAN AND GRADE OF STEEL. IN NO CASE SHALL A CONNECTION BE DESIGNED FOR A REACTION LESS THAN 12 KIPS, OR SHALL A CONNECTION USE LESS THAN 2 BOLTS OR 3/16 FILLET WELDS.

  DESIGN OF STAIRS, HANDRAILS AND GUARDRAILS SHALL BE BY THE STEEL SUPPLIER.

  REFER TO ARCHITECTURAL DRAWINGS FOR MISCELLANEOUS STRUCTURAL STEEL NOT NOTED ON STRUCTURAL DRAWINGS.

  PROVIDE CLEVISES, PINS, RODS AND TURNBUCKLES WITH CAPACITIES NOT LESS THAN THOSE LISTED IN THE AISC STEEL CONSTRUCTION MANUAL.
- BAR JOIST / FIRE PROTECTION REQUIREMENTS

  UNLESS FIRE PROTECTION LINE IS HUNG FROM BAR JOIST TOP CHORD PANEL POINT, MAXIMUM HANGER LOAD TO BE LOCATED ANYWHERE ALONG BAR JOIST TOP CHORD BETWEEN PANEL POINTS IS 100#.

  ABSOLUTE MAXIMUM SPACING OF HANGERS ON ANY SIZE LINE IS 15'.

  WHERE FIRE PROTECTION LINE RUNS PARALLEL TO A BAR JOIST, LINES UP TO AND INCLUDING 4" CAN BE SUPPORTED BY A SINGLE JOIST. LINES LARGER THAN 4" TO BE HUNG BETWEEN BAR JOISTS USING TRAPEZE HANGER.

  THESE REQUIREMENTS TO BE ADHERED TO UNLESS SPECIFICALLY INDICATED OTHERWISE ON THE STRUCTURAL DRAWINGS.

  SEE PLAN NOTES FOR STRESS REVERSAL LOADING REQUIREMENTS TO BE DESIGNED FOR.
- METAL DECKING

  PROVIDE ANGLE SUPPORTS FOR METAL DECK AT ALL COLUMN FACES WHERE SUPPORT IS REQUIRED, AND IS NOT PROVIDED BY MEMBERS FRAMING TO COLUMN. ANGLE FRAMING SHALL BE A MINIMUM OF L2x2x3/16.

  NO LOADS FROM ARCHITECTURAL, MECHANICAL, ELECTRICAL OR PLUMBING ITEMS, SINGLY OR IN AGGREGATE, IN EXCESS OF 25 POUNDS SHALL BE HUNG FROM METAL ROOF DECK IN ANY 4 SQUARE FOOT AREA. LOADS EXCEEDING THIS LIMIT REQUIRE SUPPLEMENTAL FRAMING ATTACHED DIRECTLY TO STRUCTURAL FRAMING.

  SPLICES AT CONTINUOUS DIAPHRAGM CHORD ANGLES SHALL BE FULL PENETRATION WELDS UNLESS NOTED.

UNCOATED TENSION DEVELOPMENT & CLASS "B" LAP SPLICE SCHEDULE (f'c = 3,000 psi)

BAR SIZE	TENSION DEVELOPMENT LENGTH						CLASS "B" TENSION LAP LENGTH					
	CLR COV = .75"		CLR COV = 1"		CLR COV = 1.5"		CLR COV = .75"		CLR COV = 1"		CLR COV = 1.5"	
	BOT BARS	TOP BARS	BOT BARS	TOP BARS	BOT BARS	TOP BARS	BOT BARS	TOP BARS	BOT BARS	TOP BARS	BOT BARS	TOP BARS
#3	12	13	12	13	12	13	13	17	13	17	13	17
#4	17	22	13	17	13	17	22	28	17	23	17	23
#5	24	32	20	26	17	22	32	41	26	33	22	28
#6	33	43	27	35	20	26	43	56	35	46	26	34
#7	53	69	44	57	33	43	69	90	57	74	43	55
#8	66	86	55	72	41	54	86	111	72	93	54	70
#9	80	104	67	87	51	66	104	135	87	113	66	86
#10	96	125	81	106	62	81	125	162	106	137	81	105
#11	113	146	96	125	74	97	146	190	125	162	97	125

SCHEDULE NOTES:
1) BASED ON:
   - 1a. GRADE 60 REINFORCEMENT BARS.
   - 1b. NORMAL WEIGHT CONCRETE.
   - 1c. FOR BARS IN WALLS AND SLABS.
2) TOP BARS ARE HORIZONTAL BARS WITH MORE THAN 12" OF CONCRETE BELOW THE BARS.
3) FOR LIGHTWEIGHT CONCRETE, MULTIPLY TABLED VALUES BY 1.33.

THIS SCHEDULE IS PROVIDED FOR THE CONVENIENCE OF THE CONTRACTOR AND IS NOT INTENDED TO COVER ALL SITUATIONS. SHOP DRAWINGS SHALL CLEARLY INDICATE ALL REQUIRED LAP LENGTHS.

UNCOATED TENSION DEVELOPMENT & CLASS "B" LAP SPLICE SCHEDULE (f'c = 4,000 psi)

BAR SIZE	TENSION DEVELOPMENT LENGTH						CLASS "B" TENSION LAP LENGTH					
	CLR COV = .75"		CLR COV = 1"		CLR COV = 1.5"		CLR COV = .75"		CLR COV = 1"		CLR COV = 1.5"	
	BOT BARS	TOP BARS	BOT BARS	TOP BARS	BOT BARS	TOP BARS	BOT BARS	TOP BARS	BOT BARS	TOP BARS	BOT BARS	TOP BARS
#3	12	12	12	12	12	12	12	15	12	15	12	15
#4	15	19	12	15	12	15	19	24	15	20	15	20
#5	21	28	17	22	15	19	28	36	22	29	19	24
#6	29	37	24	31	17	22	37	48	31	40	22	29
#7	46	60	38	50	28	37	60	78	50	64	37	48
#8	57	74	48	62	36	47	74	96	62	80	47	60
#9	69	90	58	76	44	57	90	117	76	98	57	74
#10	83	108	70	92	54	70	108	140	92	119	70	91
#11	98	127	83	108	64	84	127	165	108	141	84	109

SCHEDULE NOTES:
1) BASED ON:
   - 1a. GRADE 60 REINFORCEMENT BARS.
   - 1b. NORMAL WEIGHT CONCRETE.
   - 1c. FOR BARS IN WALLS AND SLABS.
2) TOP BARS ARE HORIZONTAL BARS WITH MORE THAN 12" OF CONCRETE BELOW THE BARS.
3) FOR LIGHTWEIGHT CONCRETE, MULTIPLY TABLED VALUES BY 1.33.

THIS SCHEDULE IS PROVIDED FOR THE CONVENIENCE OF THE CONTRACTOR AND IS NOT INTENDED TO COVER ALL SITUATIONS. SHOP DRAWINGS SHALL CLEARLY INDICATE ALL REQUIRED LAP LENGTHS.

COMPONENTS AND CLADDING WIND PRESSURES (PSF)

ZONE	WIND AREA (SF)	ROOF SLOPE 0° TO 7° (+)	0° TO 7° (-)	7° TO 27° (+)	7° TO 27° (-)	27° TO 45° (+)	27° TO 45° (-)
1	10	5.9.	14.6	8.4	13.3	13.3	14.6
1	20	5.6.	14.2	7.7	13.0	13.0	13.8
1	50	5.1.	13.7	6.7	12.5	12.5	12.8
1	100	4.7.	13.3	5.9	12.1	12.1	12.1
2	10	5.9.	24.4	8.4	23.2	13.3	17.0
2	20	5.6	21.8	7.7	21.4	13.0	16.3
2	50	5.1	18.4	6.7	18.9	12.5	15.3
2	100	4.7	15.8	5.9	17.0	12.1	14.6
3	10	5.9.	36.8	8.4	34.3	13.3	17.0
3	20	5.6	30.5	7.7	32.1	13.0	16.3
3	50	5.1	22.1	6.7	29.1	12.5	15.3
3	100	4.7	15.8	5.9	26.9	12.1	14.6

ZONE	WIND AREA (SF)	(+)	(-)
4	10	14.6	15.8
4	20	13.9	15.1
4	50	13.0	14.3
4	100	12.4	13.6
5	10	14.6	19.5
5	20	13.9	18.2
5	50	13.0	16.5
5	100	12.4	15.1

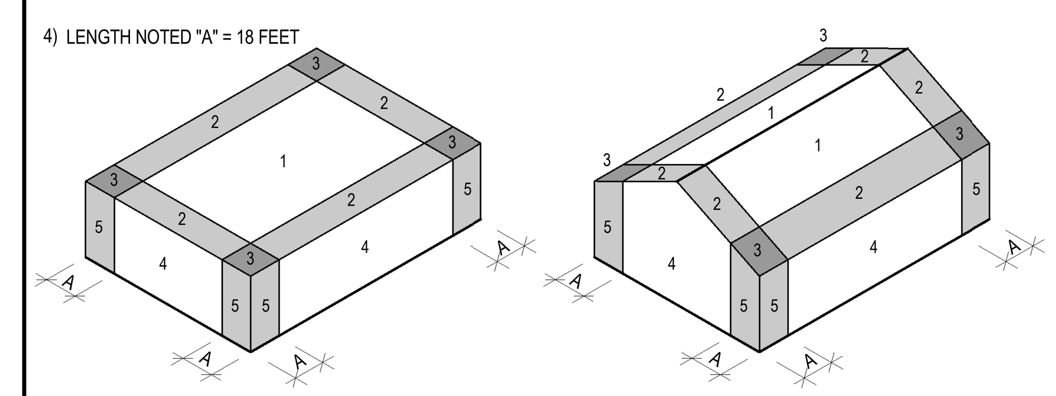
(-) WIND PRESSURE ON ROOF OVERHANGS

LOCATION	WIND AREA (SF)	ROOF SLOPE 0° TO 7° ZONE 2	0° TO 7° ZONE 3	7° TO 27° ZONE 2	7° TO 27° ZONE 3	27° TO 45° ZONE 2	27° TO 45° ZONE 3
OVERHANG	10	21.0	34.6	27.2	45.7	24.7	24.7
OVERHANG	20	20.6	27.1	27.2	41.2	24.0	24.0
OVERHANG	50	20.1	17.3	27.2	35.3	23.0	23.0
OVERHANG	100	19.8	10.0	27.2	30.9	22.2	22.2

ADJUSTMENT FACTOR

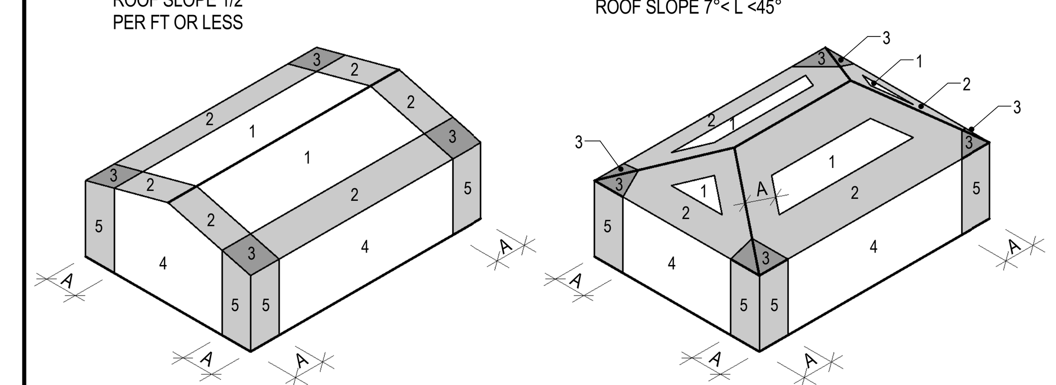
MEAN ROOF HEIGHT (FT)	EXPOSURE B	EXPOSURE C
15	1.00	1.21
20	1.00	1.29
25	1.00	1.35
30	1.00	1.40
35	1.05	1.45
40	1.09	1.49
45	1.12	1.53
50	1.16	1.56
55	1.19	1.59
60	1.22	1.62

NOTES:
1) BASED ON SIMPLIFIED PROVISIONS FOR ENCLOSED REGULAR-SHAPED BUILDINGS WITH MEAN ROOF HEIGHT LESS THAN OR EQUAL TO 60'-0" (ASCE 7-05) ASSUMING 90 MPH WIND, EXPOSURE B, I=1.0, K_{ZT} = 1.0 AT MEAN ROOF HEIGHT = 30'-0". MULTIPLY TABLE VALUES BY THE TABLES VALUES ABOVE IMMEDIATE RIGHT AT OTHER MEAN ROOF HEIGHTS AND BY IMPORTANCE FACTOR IF OTHER THAN I = 1.0.
2) (+) = POSITIVE (INWARD) PRESSURE.
   (-) = NEGATIVE (OUTWARD) PRESSURE.
   SF = SQUARE FEET
3) FOR EFFECTIVE MEMBER AREAS NOT SPECIFICALLY LISTED, INTERPOLATE OR USE LARGEST VALUE OF WIND PRESSURE/SUCTION NOTED. DO NOT USE 1/3 STRESS INCREASE FOR MEMBER DESIGN WITH VALUES NOTED IN THIS TABLE.
4) LENGTH NOTED "A" = 18 FEET



FLAT ROOF
ROOF SLOPE 1/2" PER FT OR LESS

GABLE ROOF
ROOF SLOPE 7°< L <45°



GABLE ROOF
ROOF SLOPE 0°< L <7°

HIP ROOF
ROOF SLOPE 7°< L <27°

STANDARD ABBREVIATIONS:

AB	ANCHOR BOLT (ROD)
AHU	AIR HANDLING UNIT
ALT	ALTERNATE
APPROX	APPROXIMATELY
ARCH	ARCHITECTURAL
B/F	BOTTOM OF FOOTING
B/S	BOTTOM OF STEEL
BC	BOTTOM CHORD
BLDG	BUILDING
BRG	BEARING
BTWN	BETWEEN
CB	CATCH BASIN
CIP	CAST-IN-PLACE
CJ	CONTROL JOINT
CL	CENTER LINE
CLR	CLEAR (DISTANCE)
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
CONC	CONCRETE
CONT	CONTINUOUS
CS	COLUMN STRIP
DBA	DEFORMED BAR ANCHOR
DEMO	DEMOLITION / DEMOLISH
DIA	DIAMETER
DL	DEAD LOAD
DWG	DRAWING
E/D	EDGE OF DECK
E/S	EDGE OF SLAB
EF	EACH FACE
EJ	EXPANSION JOINT
EL	ELEVATION
ELEC	ELECTRICAL
ENG	ENGINEER
EQ	EQUAL
ES	EDGE STRIP
EW	EACH WAY
EWEF	EACH WAY EACH FACE
EXP	EXPANSION
EXT	EXTERIOR
EXTG	EXISTING
FD	FLOOR DRAIN
FLG	FLANGE
FLR	FLOOR
FTG	FOOTING
FUT	FUTURE
FV	FIELD VERIFY
GA	GAUGE
GALV	GALVANIZED
GC	GENERAL CONTRACTOR
GLULAM	GLUE-LAMINATED BEAM(S)
HK	HOOK
HORIZ	HORIZONTAL
HP	HIGH POINT
HVAC	HEATING, VENTILATING, AND AIR CONDITIONING
HWS	HEADED WELDED STUD(S)
ID	INSIDE DIAMETER
IF	INSIDE FACE
INT	INTERIOR
JBE	JOIST BEARING ELEVATION
K	KIP
KO	KNOCKOUT PANEL
KSI	KIPS PER SQUARE INCH
L	ANGLE
LB	POUNDS
LL	LIVE LOAD
LLBB	LONG LEG BACK TO BACK
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LP	LOW POINT
LSL	LAMINATED STRAND LUMBER
LTWT	LIGHTWEIGHT
LVL	LAMINATED VENEER LUMBER
LW	LONG WAY
MAX	MAXIMUM
MECH	MECHANICAL
MFR	MANUFACTURER
MIN	MINIMUM
MISC	MISCELLANEOUS
MO	MASONRY OPENING
MS	MIDDLE STRIP
NA	NOT APPLICABLE
NIC	NOT IN CONTRACT
NOM	NOMINAL
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DIAMETER
OF	OUTSIDE FACE
OPNG	OPENING
OPP	OPPOSITE
OSL	OUTSTANDING LEG
PC	PRECAST / PRESTRESSED
PCI	POUNDS PER CUBIC INCH
PDF	POUNDS PER CUBIC FOOT
PL	PLATE
PLBG	PLUMBING
PLF	POUNDS PER LINEAR FOOT
PROJ	PROJECTION
PSF	POUNDS PER CUBIC FOOT
PSI	POUNDS PER SQUARE INCH
PT	PRE (POST) -TENSIONED
RD	ROOF DRAIN
REF	REFERENCE
REINF	REINFORCE(D)
REM	REMAINDER
RTU	ROOF TOP UNIT
SC	SLIP CRITICAL
SCH	SCHEDULE
SHT	SHEET
SIM	SIMILAR
SL	SNOW LOAD
SLBB	SHORT LEGS BACK TO BACK
SOG	SLAB-ON-GRADE
SP	SPAC(ES)(ED)(ING)
SPEC	SPECIFICATION(S)
SQ	SQUARE
SS	STAINLESS STEEL
STD	STANDARD
SW	SHORT WAY
T/F	TOP OF FOOTING
T/L	TOP OF LEDGE
T/P	TOP OF PIER
T/S	TOP OF STEEL
T/W	TOP OF WALL
TC	TENSION CONTROL
TC	TOP CHORD
THK	THICK (NESS) (ENED)
TL	TOTAL LOAD
TYP	TYPICAL THRU-OUT THE CONSTRUCTION DOCUMENTS
UNO	UNLESS NOTED OTHERWISE
VERT	VERTICAL
VIF	VERIFY IN FIELD
WL	WIND LOAD
WP	WORKING POINT
WWF	WELDED WIRE FABRIC

STRUCTURAL SHEET INDEX

S000 GENERAL STRUCTURAL NOTES
S100 FOUNDATION PLAN
S200 ROOF FRAMING PLAN
S800 FOUNDATION DETAILS
S810 FRAMING DETAILS

R.A. Smith National
Beyond Surveying and Engineering
www.rasmithnational.com
project number: 1150666

Contractors are responsible for the means, methods, techniques, sequences and procedures of construction including, but not limited to, temporary supports, shoring, forming to support imposed loads and other similar items.

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PROJECT

PROPOSED BUILDING FOR:

VILLAGE OF PLEASANT PRAIRIE

DEPARTMENT OF PUBLIC WORKS

VILLAGE OF PLEASANT PRAIRIE:

CONSTRUCTION MANAGER

RILEY CONSTRUCTION

REVISIONS

NO.	DESCRIPTION	DATE

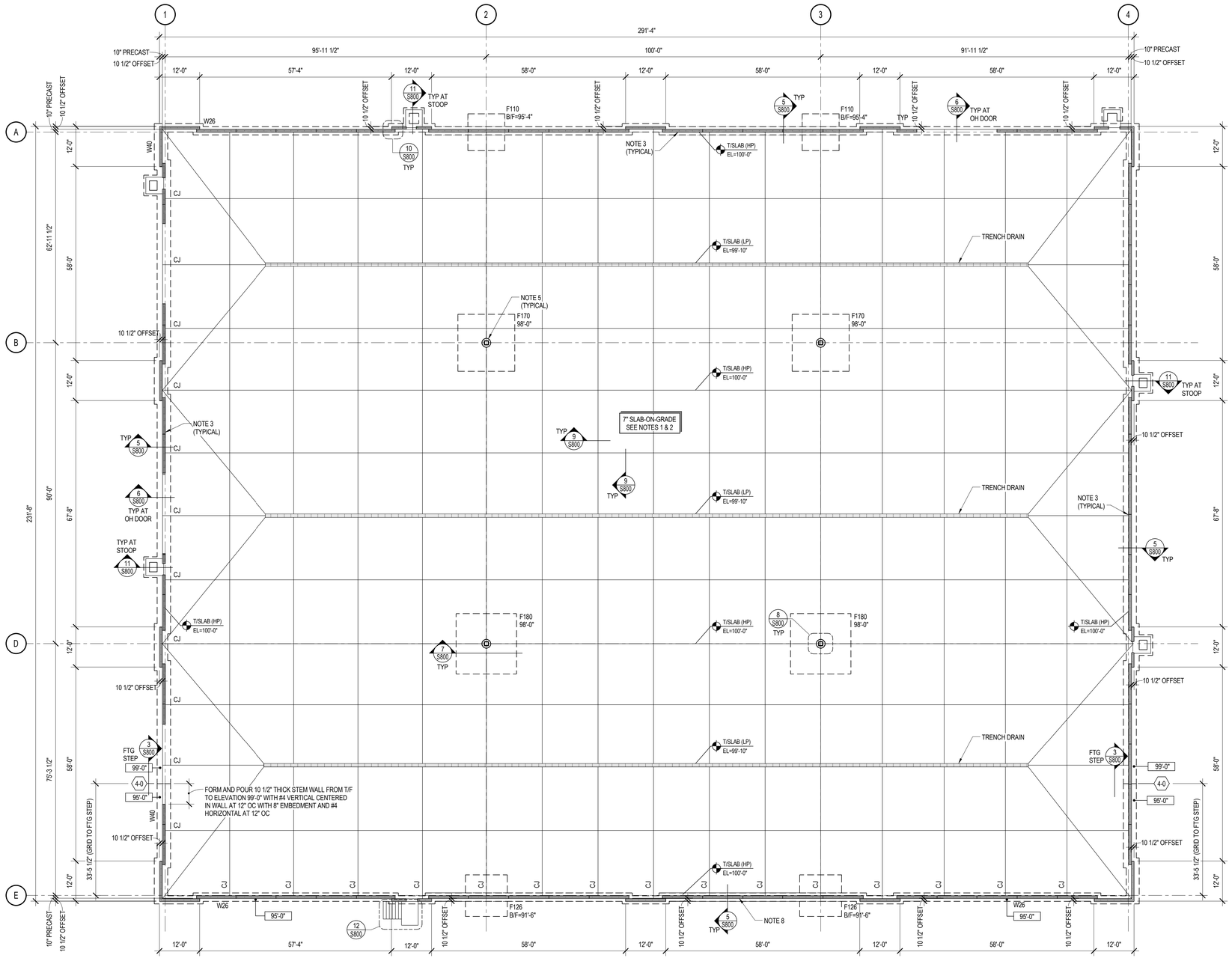
INFORMATION

PROJECT ENGINEER	SJR/RASN
PROJECT MANAGER	SJR
PROJECT NUMBER	RCC-15-785
ISSUED FOR	CONSTRUCTION (BP #3)
DATE	MARCH 18, 2016

SHEET

GENERAL STRUCTURAL NOTES

S000



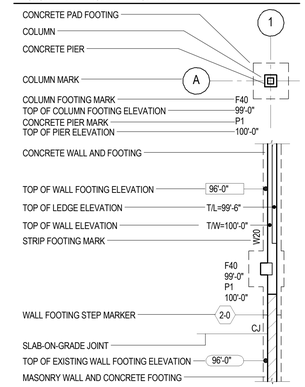
1 FOUNDATION PLAN
S100

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

FOUNDATION PLAN NOTES

1. FINISH SLAB ELEVATION (HIGH POINTS) = 100'-0" (LOCAL DATUM UNLESS NOTED OTHERWISE) PITCHING TO TRENCH DRAINS (LOW POINTS = 99'-10") AS SHOWN. TOP OF FOOTING ELEVATION = 99'-0" UNLESS NOTED OTHERWISE.
2. SLAB-ON-GRADE TO BE 7" THICK WITH 5 LBS/CUBIC YARD MACRO POLYPROPYLENE SYNTHETIC FIBERS ON 8" FREELY DRAINING WE ENERGIES BOTTOM ASH BASE COURSE UNLESS NOTED OTHERWISE.
3. TYPICAL WHERE SLAB-ON-GRADE ABUTS WALL OR COLUMN, PROVIDE 1/2" x (SOG THICKNESS) ASPHALT IMPREGNATED ISOLATION FILLER STRIP. SET STRIP FINISH SLAB ELEVATION.
4. OVER-EXCAVATION PER DETAIL 1/S800 MAY BE REQUIRED TO REMOVE EXISTING UNDOCUMENTED FILL AND UNSUITABLE BEARING SOIL. CONTRACTOR SHALL SUBMIT A UNIT PRICE PER CUBIC YARD FOR OVER-EXCAVATION AND DISPOSAL OF UNSUITABLE BEARING MATERIAL AND FOR COMPACTED ENGINEERED FILL OR LEAN CONCRETE FILL TO PROVIDE SUITABLE FOOTING AND SLAB BEARING STRATUM.
5. USING 32" DIAMETER SONOTUBE (OR EQUAL), PROVIDE CONCRETE FILL AROUND COLUMN SEPARATED FROM TYPICAL SLAB-ON-GRADE.
6. TYPICAL DETAILS THAT APPLY TO PLAN INCLUDE:
   - 2/S800 SPREAD FOOTING OVER LATERAL
   - 3/S800 FOOTING STEP DETAIL
   - 4/S800 CORNER REINFORCEMENT DETAIL
   - 9/S800 SLAB-ON-GRADE JOINT DETAIL
   - 11/S800 STOOP DETAIL
7. B/F = BOTTOM OF FOOTING. CONTRACTOR'S OPION TO PLACE FOOTING AS 42" THICK TO MATCH TYPICAL TRENCH DUG FOOTING, KEEPING REINFORCEMENT AS SCHEDULED.
8. PRECAST PANELS TO BE DESIGNED FOR 48" GRADE DIFFERENTIAL, SEE 5/S800.

FOUNDATION LEGEND



CONTINUOUS FOOTING SCHEDULE

MARK	CONTINUOUS FOOTING DIMENSIONS WIDTH	THICKNESS	FOOTING REINFORCEMENT	REMARKS
W26	2'-6"	42"	(3) #6 T&B, #3 TIES AT 48" OC	
W40	4'-0"	42"	(6) #8 T&B, #3 TIES AT 36" OC	

ISOLATED FOOTING SCHEDULE

MARK	ISOLATED FOOTING DIMENSIONS LENGTH	WIDTH	THICKNESS	FOOTING REINFORCEMENT	REMARKS
F110	11'-0"	11'-0"	21"	(8) #7; B, EW	
F126	12'-6"	12'-6"	24"	(9) #8; B, EW	
F170	17'-0"	17'-0"	31"	(16) #8; B, EW	
F180	18'-0"	18'-0"	32"	(14) #9; B, EW	

NOTES:
1. B = BOTTOM, T = TOP, LW = LONG WAY, SW = SHORT WAY, EW = EACH WAY.
2. ALL REINFORCEMENT BARS TO BE BOTTOM BARS UNLESS NOTED OTHERWISE.

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PROJECT

PROPOSED BUILDING FOR:

VILLAGE OF PLEASANT PRAIRIE

DEPARTMENT OF PUBLIC WORKS
VILLAGE OF PLEASANT PRAIRIE:

CONSTRUCTION MANAGER

RILEY CONSTRUCTION

REVISIONS

NO.	DESCRIPTION	DATE

INFORMATION

PROJECT ENGINEER	SJR/RASN
PROJECT MANAGER	SJR
PROJECT NUMBER	RCC-15-785
ISSUED FOR	CONSTRUCTION (BP #3)
DATE	MARCH 18, 2016

SHEET

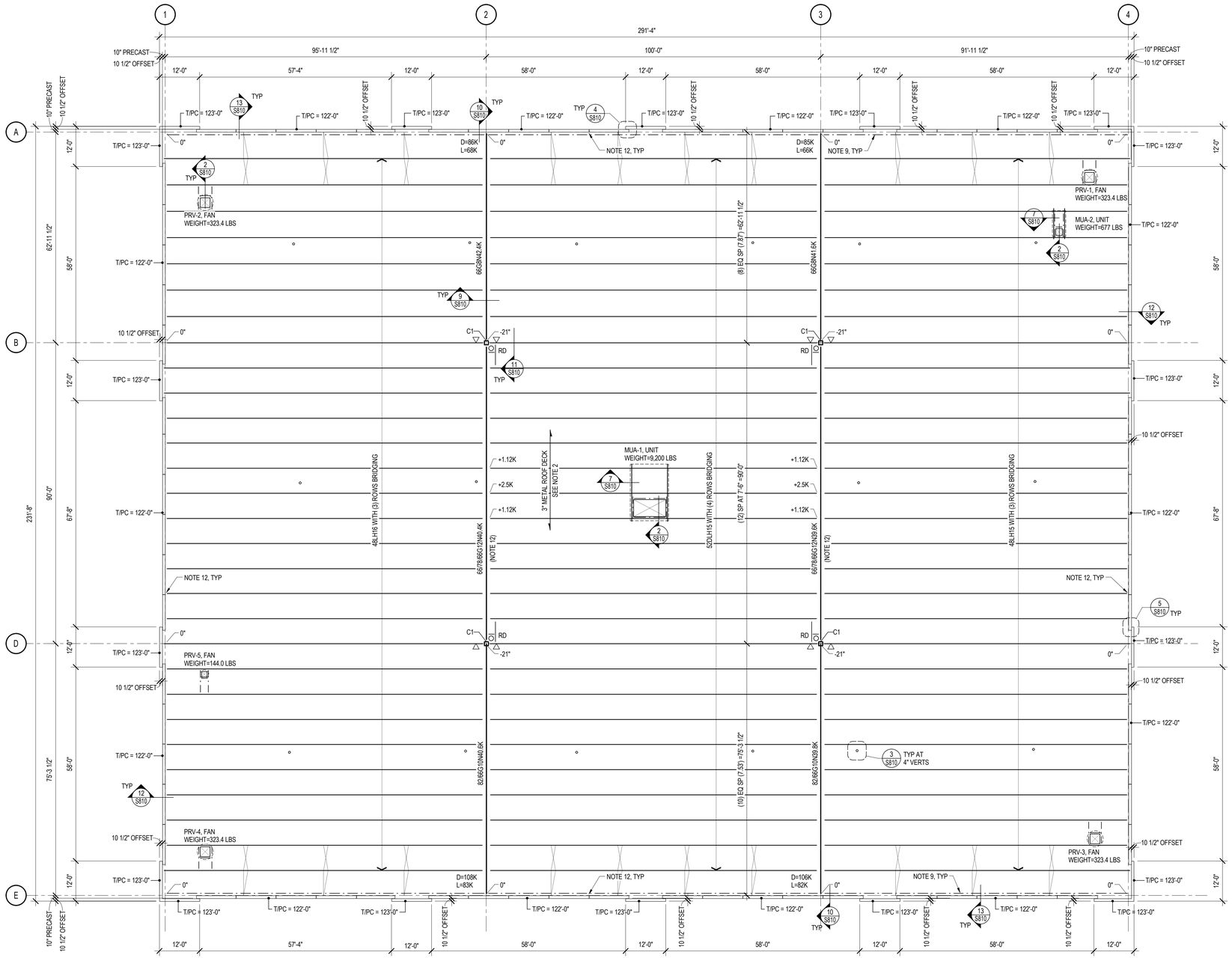
FOUNDATION PLAN

S100

R.A. Smith National
Beyond Surveying and Engineering
www.rasmithnational.com

project number: 1150666

Contractors are responsible for the means, methods, techniques, sequences and procedures of construction including, but not limited to, temporary supports, shoring, forming to support imposed loads and other similar items.



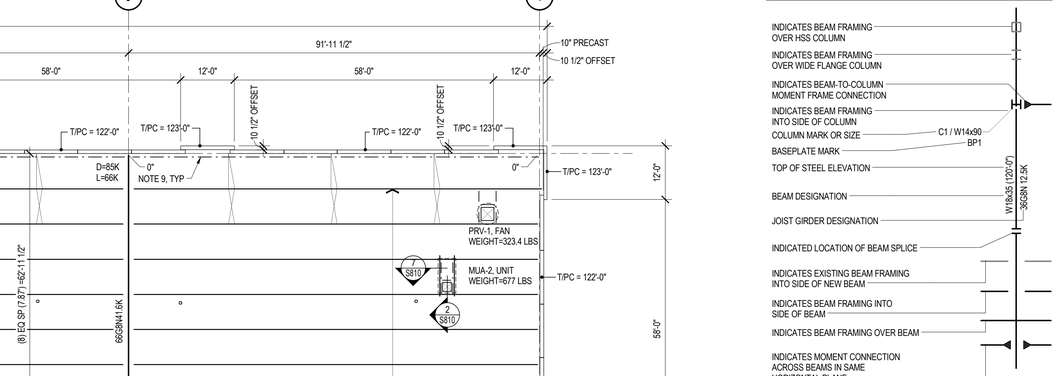
1 S200 ROOF FRAMING PLAN

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

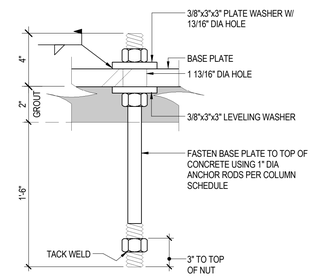
ROOF FRAMING PLAN NOTES

1. TOP OF BASE STEEL (JOIST BEARING) ELEVATION = 121'-3 1/2". ALL ELEVATIONS SHOWN ON PLAN ARE PLUS OR MINUS, AS INDICATED, FROM THIS BASE ELEVATION.
2. ROOF DECKING SHALL BE 3" x 22GA METAL ROOF DECK PRIME PAINTED WHITE FASTENED TO SUPPORTING STRUCTURE USING 24/4 PATTERN OF ANY OF THE ATTACHMENT METHODS SHOWN IN DETAIL 1/S810 WITH #10 TEK SIDELAP FASTENERS AT 16" OC. PROVIDE DECK WITH THE FOLLOWING PROPERTIES:
   THICK = 0.0295" Ip = 0.659 in4/ft Sp = 0.382 in3/ft
   Fy = 33 KSI In = 0.884 in4/ft Sn = 0.433 in3/ft
   INSTALL DECK UNDER 3 OR MORE SPAN CONDITIONS.
3. ▷ INDICATES LOCATION OF BAR JOIST BOTTOM CHORD EXTENSION. DO NOT WELD EXTENSION TO SUPPORT FRAMING. REFER TO DETAIL 9/S810.
4. JOIST SUPPLIER TO PROVIDE CONTINUOUS TOP AND BOTTOM CHORD BOLTED DIAGONAL BRIDGING SHOWN WITH SINGLE LINE OF BOTTOM CHORD BRIDGING AT FIRST PANEL POINT FOR UPLIFT CONSIDERATIONS AT EACH END.
5. ALL JOISTS AND JOIST GIRDERS TO BE CAMBERED IN ACCORDANCE WITH SJI STANDARD SPECIFICATION. BAR JOIST DESIGNATIONS INCLUDE THE AFFECT OF SNOW DRIFT. DESIGN ALL LH AND DLH JOISTS FOR A STRESS REVERSAL EQUAL TO 10% FOR TWO PANEL POINTS EACH DIRECTION ABOUT MID-SPAN.
6. ALL BAR JOISTS AND JOIST GIRDERS TO BE DESIGNED FOR A NET UPLIFT LOAD OF 10 PSF IN ADDITION TO GRAVITY VERTICAL LOADS REQ'D BY THE BAR JOIST/JOIST GIRDER DESIGNATION.
7. PROVIDE ANGLE FRAME(S) SUPPORT AT ALL ROOF OPENINGS IN ACCORDANCE WITH 2/S810.
8. BELOW ROOFTOP UNIT CURB PROVIDE ANGLE STRUTS PER 6/S810 AND CHANNELS SHOWN PER 7/S810.
9. DECK BEARING ANGLE BY PRECAST SUPPLIER, SEE 13/S810.
10. ALL STEEL (BAR JOIST, JOIST GIRDERS, BEAMS, & COLUMNS) TO BE PRIME PAINTED WHITE.
11. JOIST GIRDER 66" DEEP AT ENDS AND 78" DEEP AT MIDSPAN.
12. AT ALL DECK OR JOIST BEARING CONDITIONS AT PRECAST PANEL-TO-PANEL PANEL JOINTS, PANELS TO BE CONNECTED TOGETHER PER 8/S810 FOR ROOF DIAPHRAGM CHORD FORCE. SEE SECTION A-A ON 10/S810 FOR REQUIREMENT AT JOIST GIRDER POCKETS.
13. ALL JOIST GIRDERS TO HAVE 14" BEARING SEATS.
14. '+X.XK' INDICATES ADDITIONAL LOAD ACTING AT JOIST GIRDER PANEL POINT TO BE DESIGNED FOR.

STRUCTURAL STEEL LEGEND



STEEL COLUMN SCHEDULE	
COLUMN MARK	C1
CAP PLATE	1 1/2"
COLUMN SIZE	HIGH ROOF; LOW ROOF; SLAB-ON-GRADE: HSS14x14x1/2 (11/S810, JG)
BASE PLATE	1 1/4x20x1'-8"
ANCHOR BOLTS	(4) 1" DIA
DETAILS, NOTES	2/S200



2 S200 STANDARD ANCHOR ROD DETAIL

SCALE: 3" = 1'-0"

JG DESIGNATION NOTATION

32/44G8N16.8K

- JOIST GIRDER DEPTH AT NORTH END
- JOIST GIRDER DEPTH AT SOUTH END

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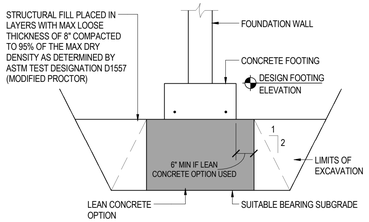
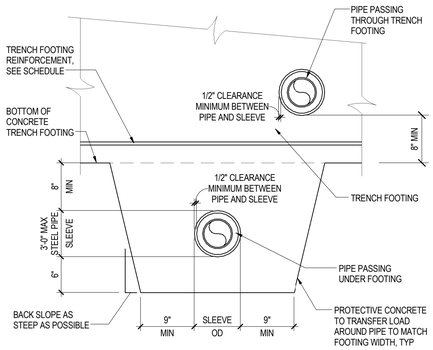
ROOF FRAMING PLAN

S200

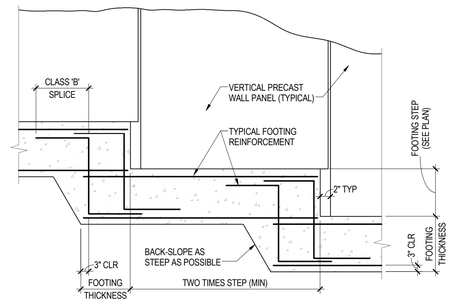


NOTES:
1. CONTRACTORS OPTION: ELIMINATE STRUCTURAL FILL BY LOWERING DESIGNED FOOTING ELEVATION SO THAT FOOTING RESTS DIRECTLY ON SUITABLE BEARING SUBGRADE, PROVIDE LEAN CONCRETE (f'c = 500 PSI MIN) UNDER THE FOOTING AS SHOWN HATCHED ABOVE, OR INCREASE FOOTING THICKNESS TO REACH SUITABLE BEARING SUBGRADE.
2. THIS DETAIL APPLIES ONLY AT THOSE LOCATIONS WHERE GEOTECH ENGINEER DEEMS SOILS AT DESIGNED FOOTING ELEVATIONS ARE INADEQUATE FOR FOOTING SUPPORT. WHERE THIS WORK IS REQUIRED, CONTRACTOR WILL BE COMPENSATED ON A PRE-ESTABLISHED UNIT COST AGREED UPON BY THE CONTRACTOR, ARCHITECT/ENGINEER, AND OWNER.

1 S800 **OVER-EXCAVATION DETAIL**
SCALE: 1/2" = 1'-0"

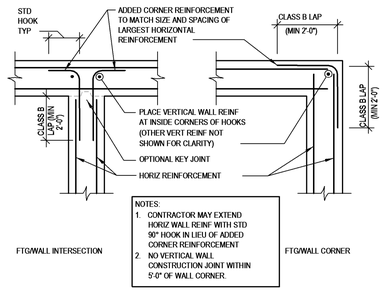


2 S800 **PIPE PASSING UNDER/THROUGH WALL FOOTING**
SCALE: 1" = 1'-0"



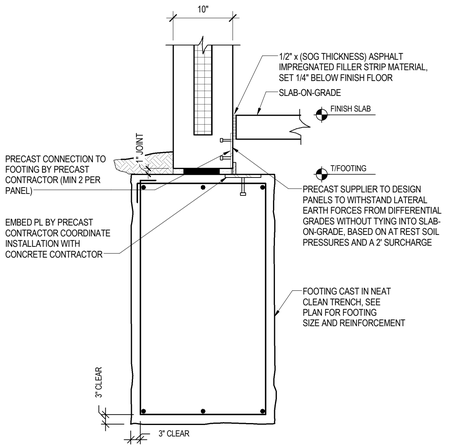
NOTE:
COORDINATE FOOTING STEP LOCATIONS WITH PRECAST WALL PANEL LAYOUT

3 S800 **FOOTING STEP DETAIL**
SCALE: 1" = 1'-0"

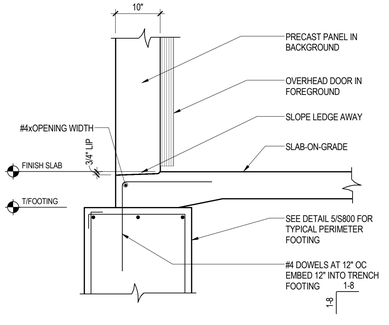


NOTES:
1. CONTRACTOR MAY EXTEND HORIZ WALL REINF WITH STD 90° HOOK IN LIEU OF ADDED CORNER REINFORCEMENT
2. NO VERTICAL WALL CONSTRUCTION JOINT WITHIN 5'-0" OF WALL CORNER.

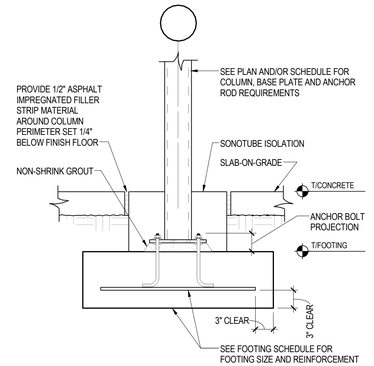
4 S800 **TYP FTG-WALL CORNER REINF**
SCALE: 3/4" = 1'-0"



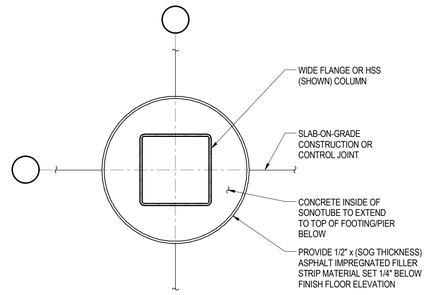
5 S800 **TYPICAL PERIMETER FOOTING**
SCALE: 1" = 1'-0"



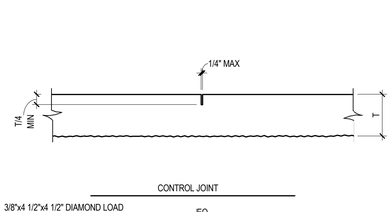
6 S800 **OVERHEAD DOOR THRESHOLD**
SCALE: 3/4" = 1'-0"



7 S800 **TYPICAL INTERIOR COLUMN FOOTING**
SCALE: 1" = 1'-0"

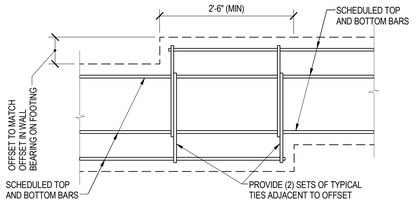


8 S800 **ISOLATION JOINT AT COLUMNS**
SCALE: 3/4" = 1'-0"

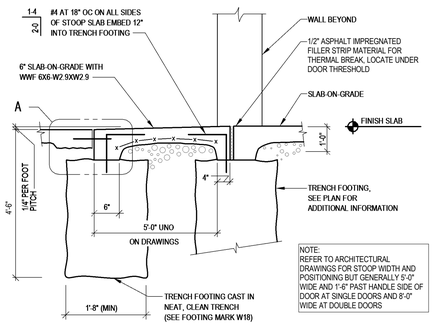


NOTES:
1) SLABS TO BE PLACED USING THE LONG STRIP CONSTRUCTION METHOD.
2) REFER TO GENERAL NOTES, SPECIFICATIONS AND/OR DRAWINGS FOR SUBGRADE PREPARATION REQUIREMENTS.

9 S800 **CONTROL AND CONSTRUCTION JOINTS**
SCALE: 1" = 1'-0"

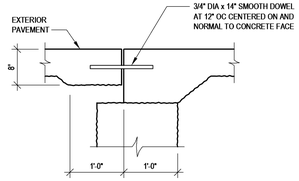


10 S800 **TRENCH FOOTING OFFSET**
SCALE: 3/4" = 1'-0"



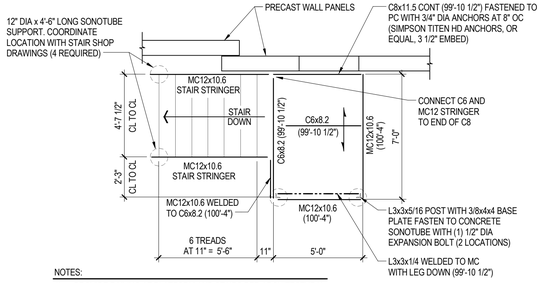
NOTE:
REFER TO ARCHITECTURAL DRAWINGS FOR STOOP WIDTH AND POSITIONING BUT GENERALLY 5'-0" WIDE AND 1'-6" PAST HANDLE SIDE OF DOOR AT SINGLE DOORS AND 8'-0" WIDE AT DOUBLE DOORS

11 S800 **TYPICAL STOOP DETAIL**
SCALE: 1" = 1'-0"



A DETAIL
SCALE: 3/4"=1'-0"

NOTE:
THIS DETAIL APPLIES WHERE EXTERIOR CONCRETE ABUTTS STOOP



NOTES:
1) PROVIDE RAILING AT PLATFORM AND STAIRS PER ARCHITECTURAL DRAWINGS AND BUILDING CODE REQUIREMENTS.
2) FRAMING, GRATING, TREADS AND FASTENERS TO BE GALVANIZED.

12 S800 **STAIR FRAMING PLAN**
SCALE: 1/4" = 1'-0"

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SHEET

FOUNDATION DETAILS

S800

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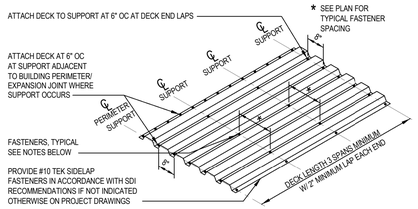
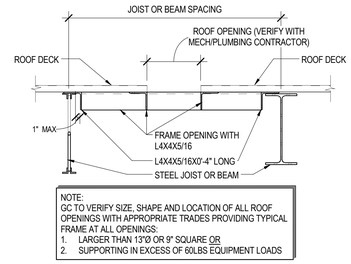
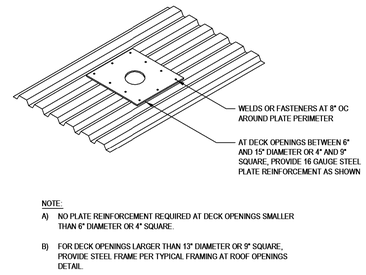


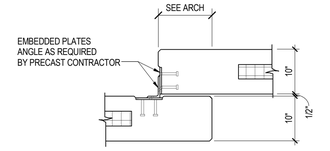
1 S810 **METAL DECK FASTENING DETAIL**
SCALE: 1/2" = 1'-0"



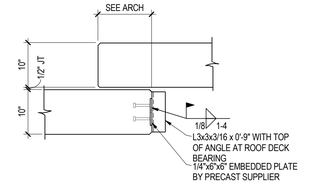
2 S810 **TYPICAL FRAMING AT ROOF OPENINGS**
SCALE: 3/4" = 1'-0"



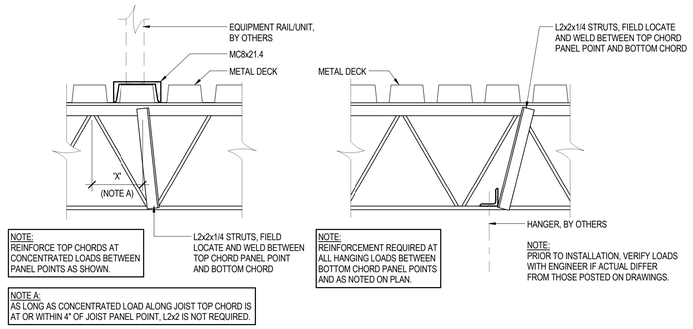
3 S810 **TYPICAL ROOF DECK OPENING**
SCALE: 1" = 1'-0"



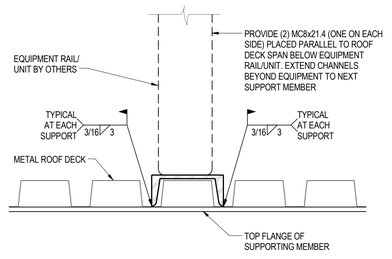
4 S810 **PANEL TO PANEL CONNECTION**
SCALE: 3/4" = 1'-0"



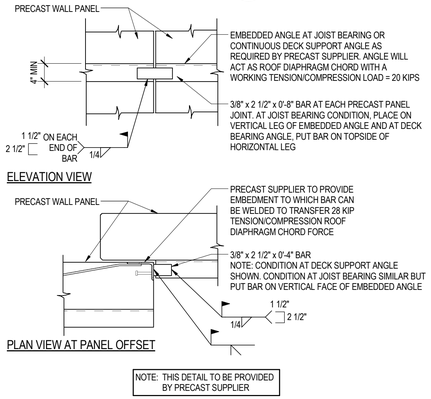
5 S810 **PLAN DETAIL**
SCALE: 3/4" = 1'-0"



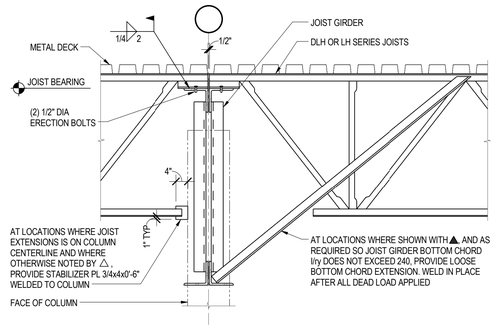
6 S810 **CONCENTRATED LOAD AT JOIST**
SCALE: 1" = 1'-0"



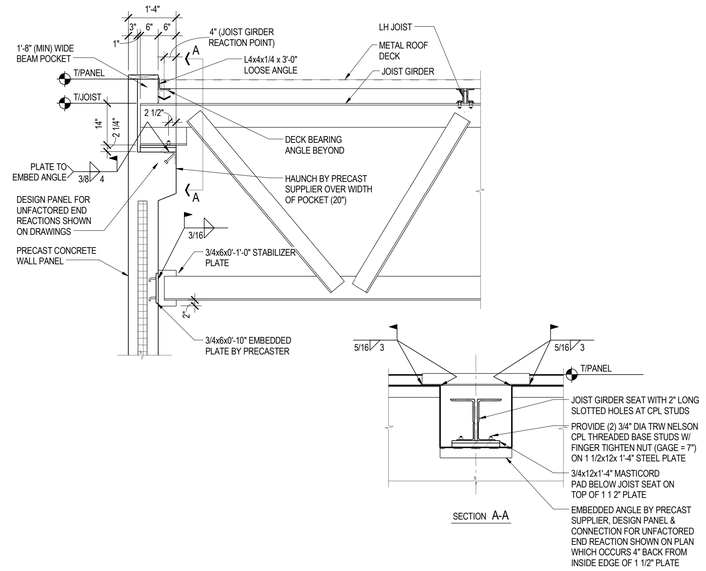
7 S810 **EQUIPMENT RAIL SUPPORT**
SCALE: 1 1/2" = 1'-0"



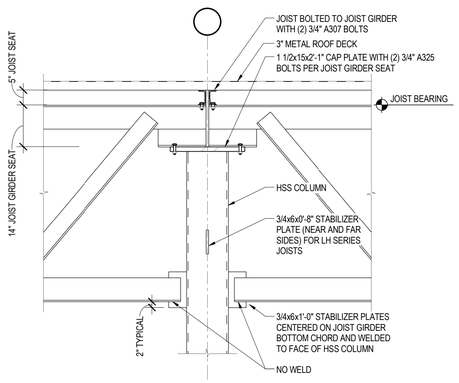
8 S810 **CHORD SPLICE DETAIL**
SCALE: 3/4" = 1'-0"



9 S810 **BAR JOIST ON JOIST GIRDER**
SCALE: 1/2" = 1'-0"



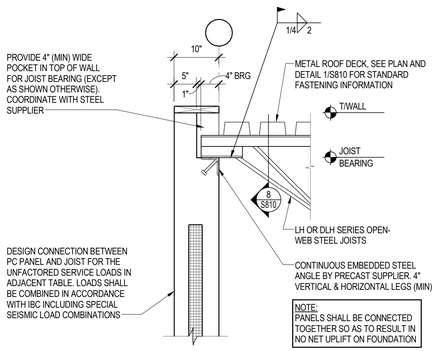
10 S810 **JOIST GIRDERS TO PRECAST PANEL**
SCALE: 1/2" = 1'-0"



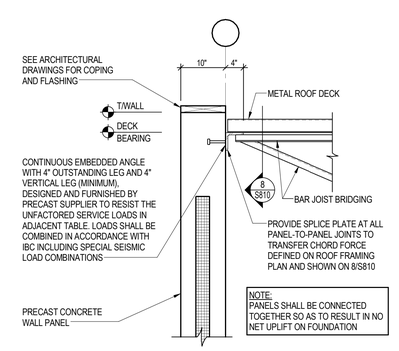
11 S810 **JOIST GIRDERS ON COLUMN**
SCALE: 1/2" = 1'-0"

DETAIL	VERTICAL LOAD			HORIZONTAL LOAD				REMARK
				PARALLEL TO WALL		PERPENDICULAR TO WALL		
	DEAD (DOWN)	SNOW (DOWN)	WIND (UP/DOWN)	WIND	SEISMIC	WIND	SEISMIC	
12※	1440 PLF	1200 PLF	739 PLF	69 PLF	292 PLF	134 PLF	280 PLF	
13	134 PLF	98 PLF	60 PLF	44 PLF	222 PLF	134 PLF	280 PLF	

※: MULTIPLY UNIFORM LOAD VALVE BY JOIST SPACING TO GET JOIST REACTION THAT NEEDS TO BE ACCOMMODATED AT EACH JOIST BEARING POINT.



12 S810 **JOIST AT PRECAST PANEL**
SCALE: 3/4" = 1'-0"



13 S810 **JOIST BRIDGING AT PRECAST PANEL**
SCALE: 3/4" = 1'-0"

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PROJECT

PROPOSED BUILDING FOR:

VILLAGE OF PLEASANT PRAIRIE

DEPARTMENT OF PUBLIC WORKS
VILLAGE OF PLEASANT PRAIRIE:

CONSTRUCTION MANAGER

RILEY CONSTRUCTION

REVISIONS

NO.	DESCRIPTION	DATE

INFORMATION

PROJECT ENGINEER	SJR/RASN
PROJECT MANAGER	SJR
PROJECT NUMBER	RCC-15-785
ISSUED FOR	CONSTRUCTION (BP #3)
DATE	MARCH 18, 2016

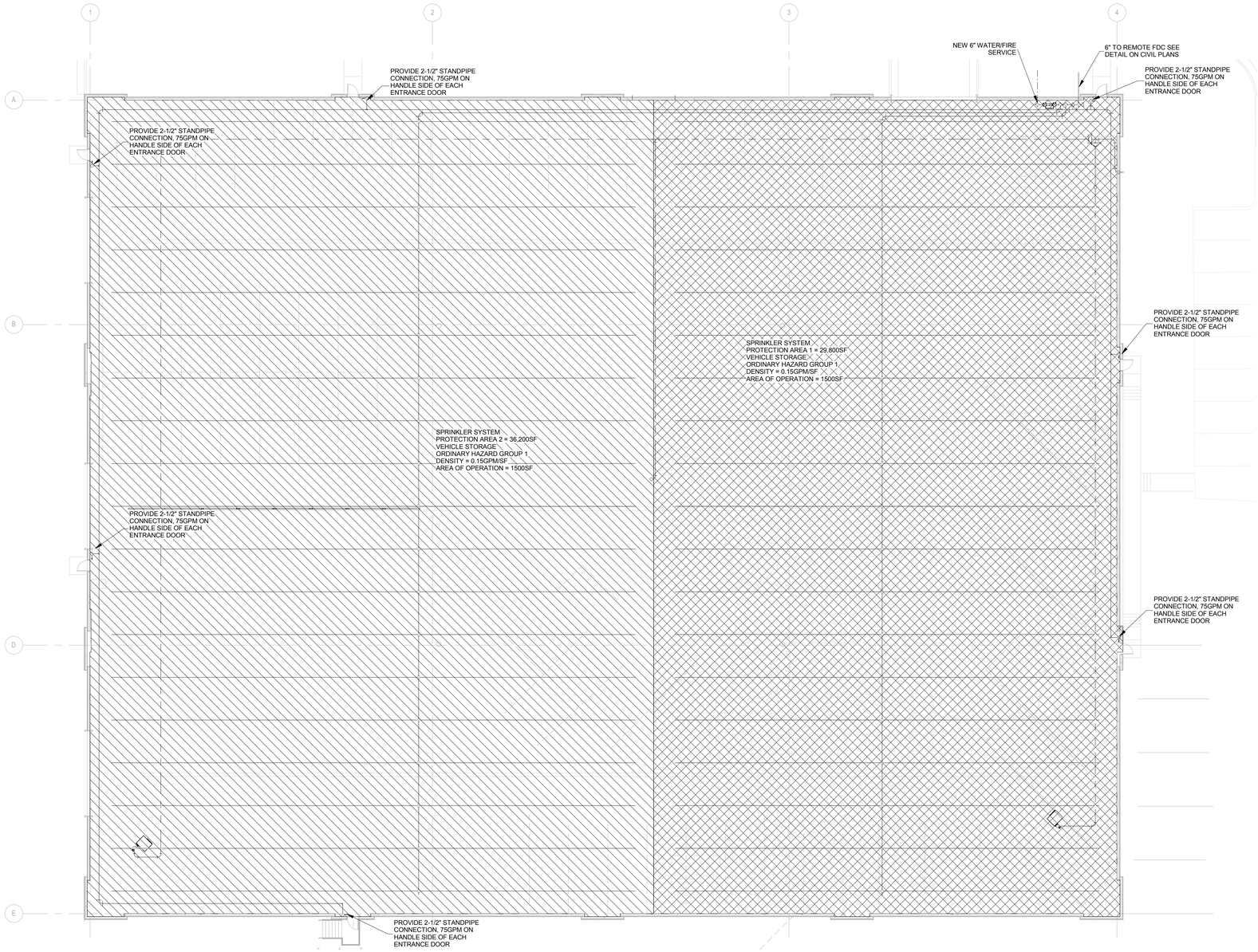
SHEET

FRAMING DETAILS

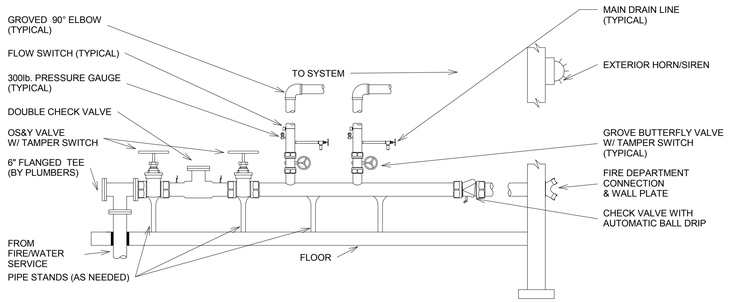
S810

R.A. Smith National
Beyond Surveying and Engineering
www.rasmithnational.com
project number: 1150666

Contractors are responsible for the means, methods, techniques, sequences and procedures of construction including, but not limited to, temporary supports, shoring, forming to support imposed loads and other similar items.



N 1 FP100 FP Scope Plan
SCALE: 1/16" = 1'-0"



2 FP100 CONTROL RISER DETAIL ASSY.
SCALE: NO SCALE

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PROJECT

PROPOSED BUILDING FOR:

VILLAGE OF PLEASANT PRAIRIE

Village of Pleasant Prairie Storage Garage

VILLAGE OF PLEASANT PRAIRIE:

CONSTRUCTION MANAGER

RILEY CONSTRUCTION

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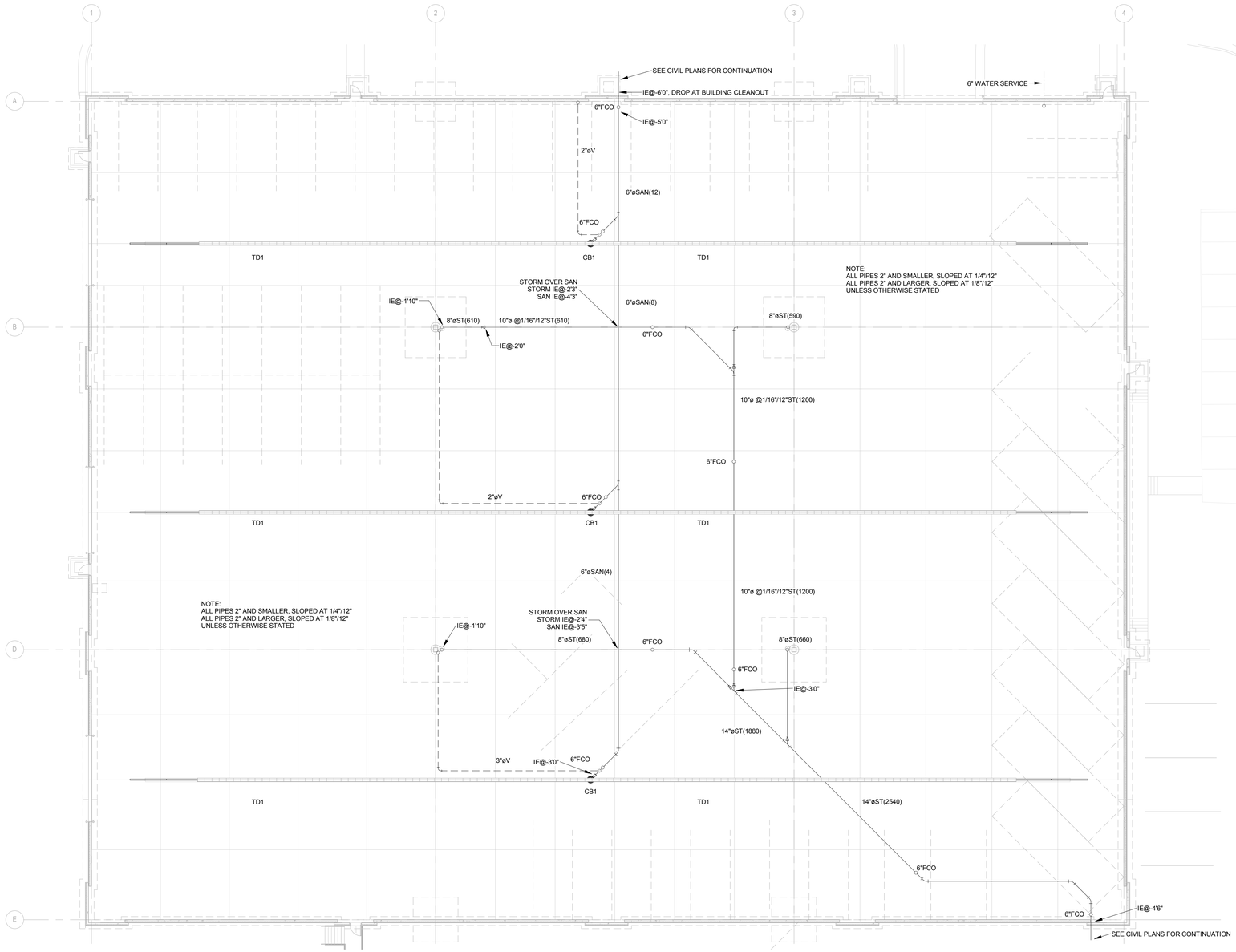
SHEET

Fire Protection Scope Plan

FP100



N

1 / P100 Plumbing Overall Underground Plan

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

PLUMBING SYMBOLS AND ABBREVIATIONS

CW	COLD DOMESTIC WATER
HW	HOT DOMESTIC SUPPLY
HWC	HOT DOMESTIC RETURN
CHW	COLD HARD WATER
V	VENT
NG	NATURAL GAS
	RISER DOWN
	RISER UP
	P-TRAP
	SHUTOFF VALVE
	CHECK VALVE
	BALANCING VALVE
SAN	SANITARY PIPE
ST	STORM PIPE
RPZBP	REDUCED PRESSURE ZONE BACKFLOW PREVENTER
CWW	CLEARWATER WASTE
CWV	CLEARWATER VENT
FCO	FLOOR CLEAN OUT
WCO	WALL CLEAN OUT
CWF	FILTERED COLD WATER
M	WATER METER
VTR	VENT THROUGH ROOF
	CONNECTION TO EXISTING
NPCW	NON-POTABLE COLD WATER
NPHW	NON-POTABLE HOT WATER

PIPE TAG NOMENCLATURE:

3" XSAN (21)
1 2 3 4

1 - PIPE SIZE

2 - MODIFIER (E.G. X-EXISTING, F-FILTERED, S-SOFT)

3 - SYSTEM TYPE (E.G. SAN - SANITARY, CW - COLD WATER, ETC.)

4 - QUANTITY OF FLOW,
SAN - DFU (DRAINAGE FIXTURE UNITS)
CW, HW - WSFU (WATER SERVICE FIXTURE UNITS)
STORM - GPM (GALLONS PER MINUTE)
GAS - CFH (CUBIC FEET PER HOUR)

Plumbing Sheet Index

Sheet Number	Sheet Name
P100	Plumbing Underground Plan
P101	Plumbing Above Ground Plan
P102	Plumbing Above Ground Plan ALT2
P200	Isometrics and Details

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RILEY CONSTRUCTION

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SHEET

Plumbing Underground Plan

P100

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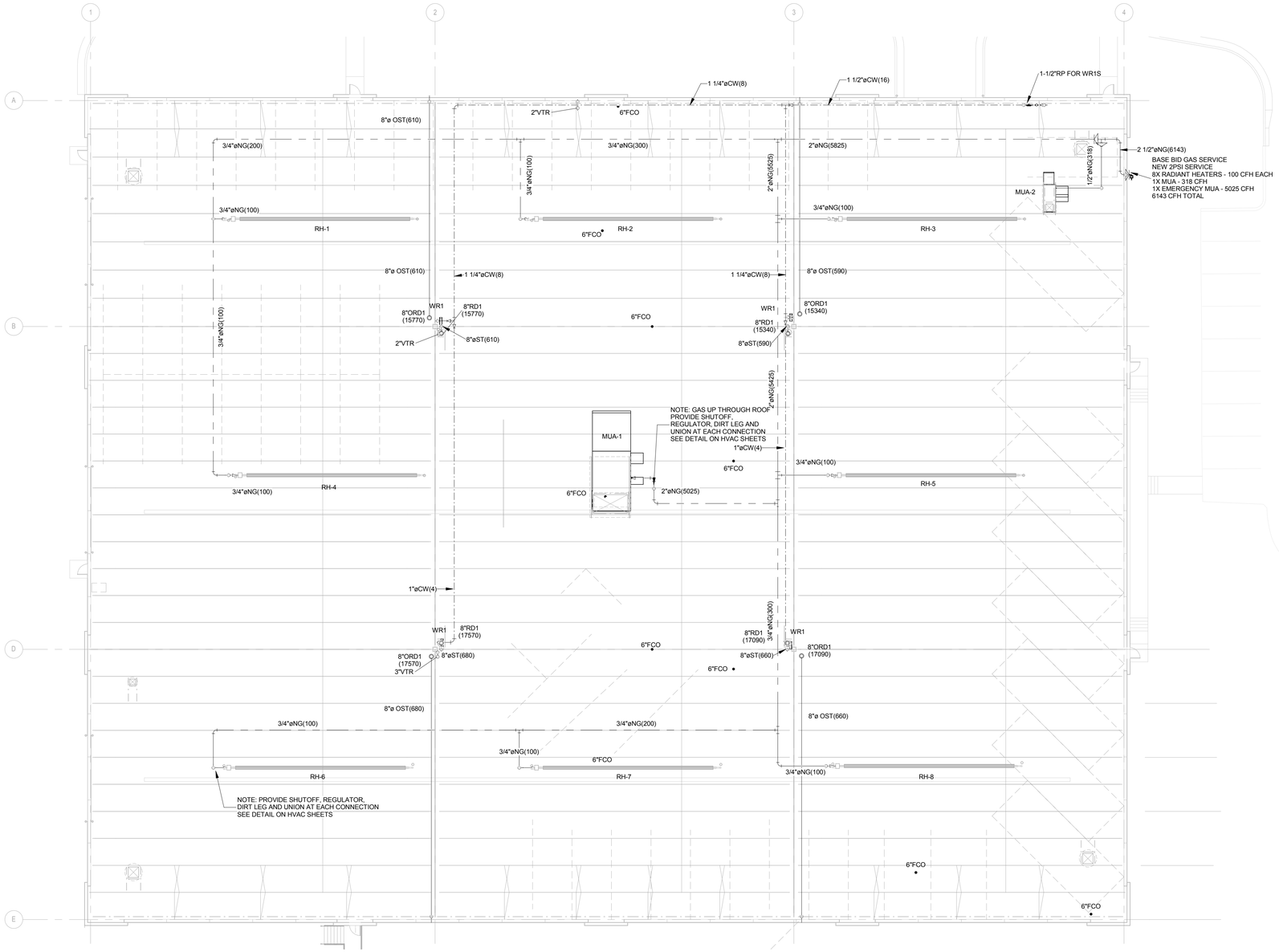

N 1 P101 Plumbing Overall Above Ground Plan
SCALE: 1/16" = 1'-0"

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PROJECT

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Village of Pleasant Prairie Storage Garage

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RILEY CONSTRUCTION

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SHEET

Plumbing Above Ground Plan

P101

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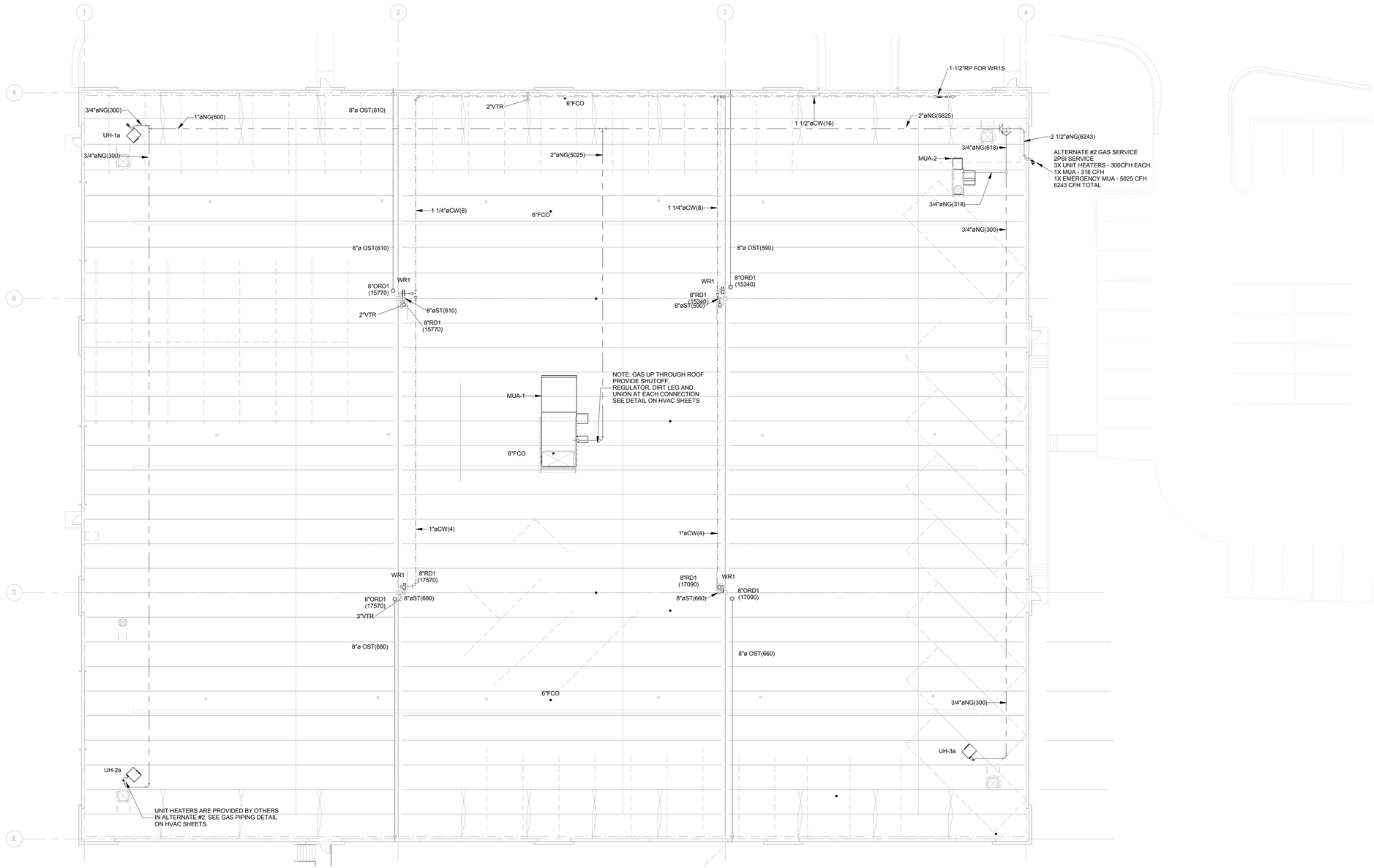

N 1/P102 Plumbing Overall Above Ground Plan ALTERNATE 2
SCALE: 1/16" = 1'-0"

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PROJECT

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RILEY CONSTRUCTION

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PROJECT REVIEWER	Checker
PROJECT NUMBER	RCC-15-785
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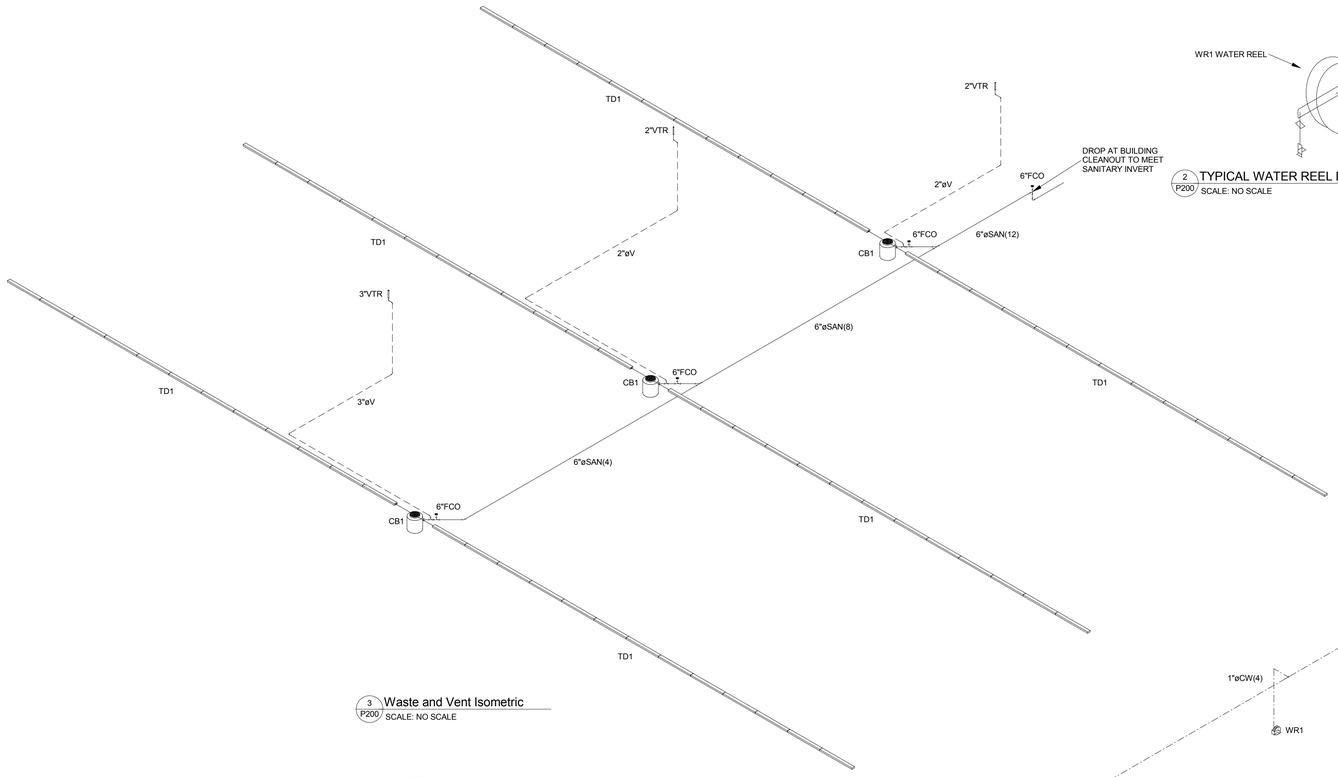
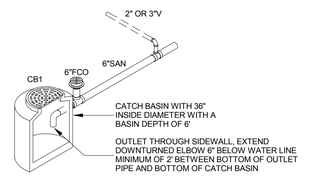
SHEET

Plumbing Above Ground Plan ALT2

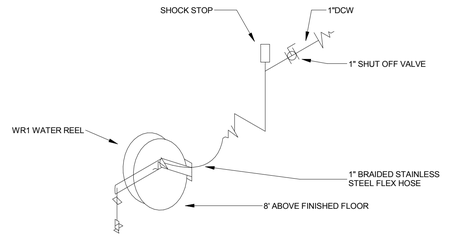
P102



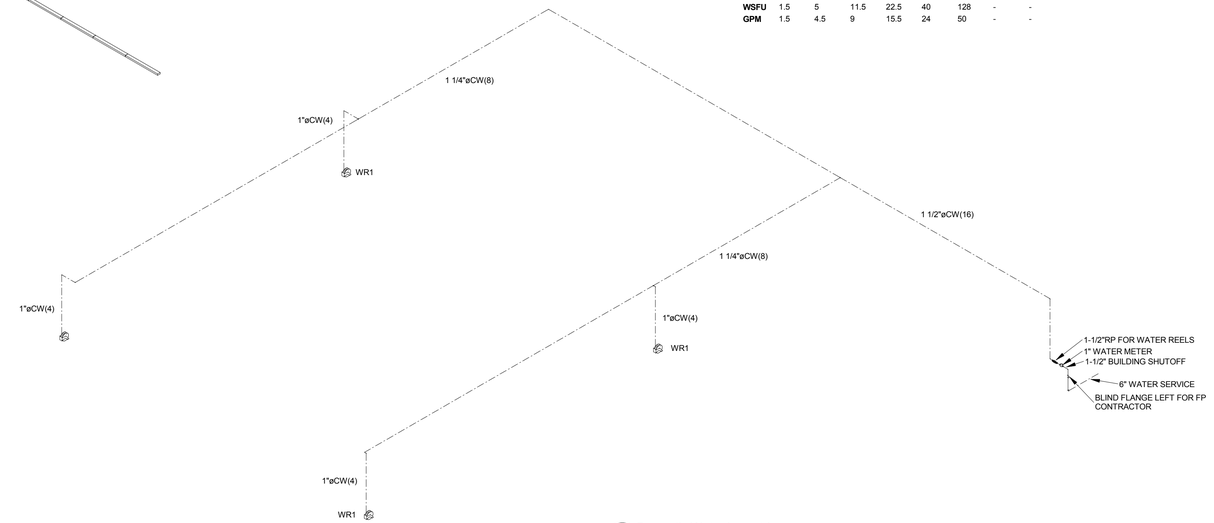
3 P200 Waste and Vent Isometric
SCALE: NO SCALE



4 P200 Catch Basin Detail
SCALE: NO SCALE



2 P200 TYPICAL WATER REEL DETAIL - WR2
SCALE: NO SCALE



1 P200 Domestic Water Isometric
SCALE: NO SCALE

WATER CALCULATION WORKSHEET

INFORMATION REQUIRED TO CALCULATE WATER SERVICE SIZE FOR Pleasant Prairie Garage

1.	TOTAL DEMAND OF BUILDING:	WSFUS: 16	GPM: 12
2.	DIFFERENCE IN ELEVATION FROM MAIN OR EXTERNAL PRESSURE TANK TO BUILDING CONTROL VALVE:		8
3.	SIZE OF THE WATER METER (WHEN APPLICABLE):		3/4"
4.	DEVELOPED LENGTH FROM MAIN OR EXTERNAL PRESSURE TANK TO BUILDING CONTROL VALVE:		0
5.	LOW PRESSURE AT MAIN IN STREET OR EXTERNAL PRESSURE TANK:		66

CALCULATED WATER SERVICE PRESSURE LOSS

6.	LOW PRESSURE AT MAIN IN STREET OR EXTERNAL PRESSURE TANK:		66
7.	WATER SERVICE (MAIN TO BLDG CTRL VALVE) DIAMETER:		6"
	MATERIAL IS:		DUCTILE IRON
	PRESSURE LOSS/100FT:		0
	LENGTH OF SERVICE:		0
	PRESSURE LOSS:		0
	SUBTOTAL:		66
8.	DETERMINE PRESSURE GAIN/LOSS DUE TO ELEVATION		3.472
9.	AVAILABLE PRESSURE BEFORE BUILDING CONTROL/PRESSURE REDUCING VALVE:		62.528

CALCULATED PRESSURE AVAILABLE FOR UNIFORM LOSS (VALUE OF "A") **COLD WATER**

10.	AVAILABLE PRESSURE AFTER THE BUILDING PRESSURE REDUCING VALVE IF APPLICABLE		62.528
11.	PRESSURE LOSS OF WATER METER IF APPLICABLE		6
		SUBTOTAL:	56.528
12.	PRESSURE AT CONTROLLING FIXTURE:	HOSE REEL	20
		SUBTOTAL:	36.528
13.	ELEVATION DIFFERENCE AT CONTROLLING FIXTURE:		0
	PRESSURE LOSS DUE TO ELEVATION DIFFERENCE:		0
		SUBTOTAL:	36.528
14.	PRESSURE LOSS DUE TO WATER TREATMENT DEVICES, INSTANTEOUS WATER HEATERS, AND BACKFLOW PREVENTERS THAT SERVE THE CONTROLLING FIXTURE:		12
	BACKFLOW PREVENTER		
		SUBTOTAL:	24.528
15.	DEVELOPED LENGTH FROM BUILDING CONTROL VALVE TO CONTROLLING FIXTURE IN FEET:		350
	WATER DISTRIBUTION PIPING MATERIAL IS:		CPVC
16.	**"A VALUE" - PRESSURE AVAILABLE FOR UNIFORM LOSS (PSI/100FT):**		4.5

WATER PIPE SIZING CHART

MATERIAL: SCHEDULE 80 CPVC **A=** 4.5 **PSI/100FT**
TYPE: FLUSH TANK **SYSTEM:** COLD WATER

TAG	**PIPE SIZE**							
	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"
WSFU	1.5	5	11.5	22.5	40	128	-	-
GPM	1.5	4.5	9	15.5	24	50	-	-

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PROJECT

PROPOSED BUILDING FOR:
VILLAGE OF PLEASANT PRAIRIE

Village of Pleasant Prairie Storage Garage
VILLAGE OF PLEASANT PRAIRIE:

CONSTRUCTION MANAGER

RILEY CONSTRUCTION

REVISIONS

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PROJECT DESIGNER	JMW
PROJECT REVIEWER	TCP
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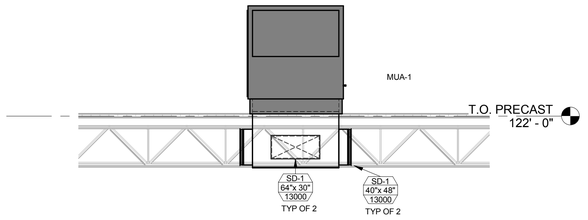
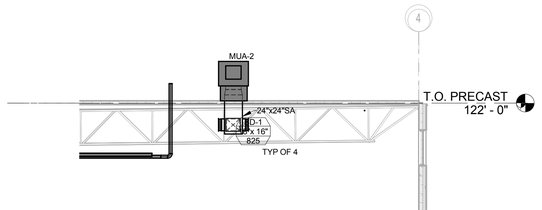
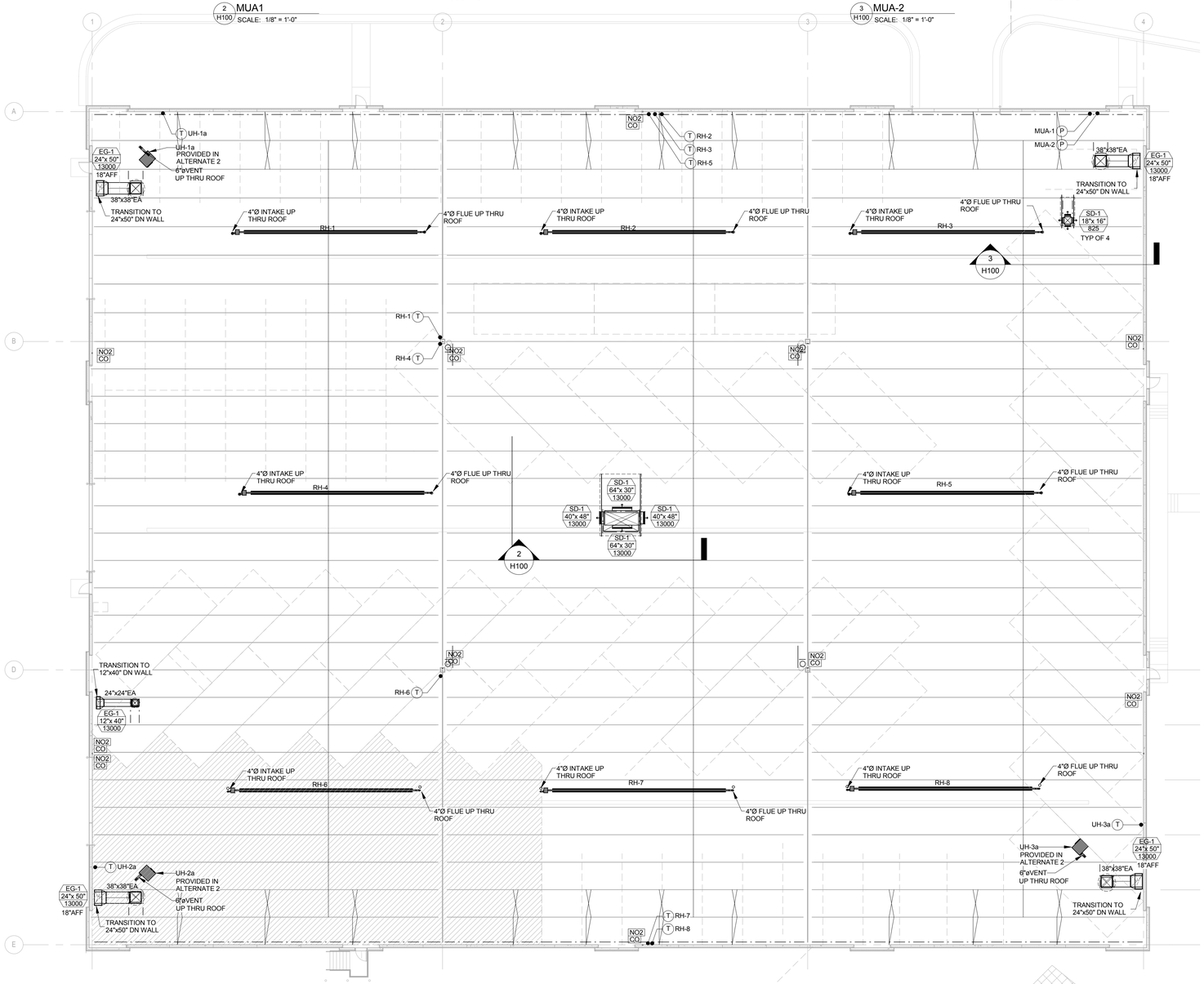
SHEET

Isometrics and Details

P200







N 1 H100 First Floor HVAC Plan
SCALE: 1/16" = 1'-0"

HVAC Sheet Index

Sheet Number	Sheet Name
H100	First Floor HVAC Plan
H101	HVAC Roof Plan
H300	Schedules and Details

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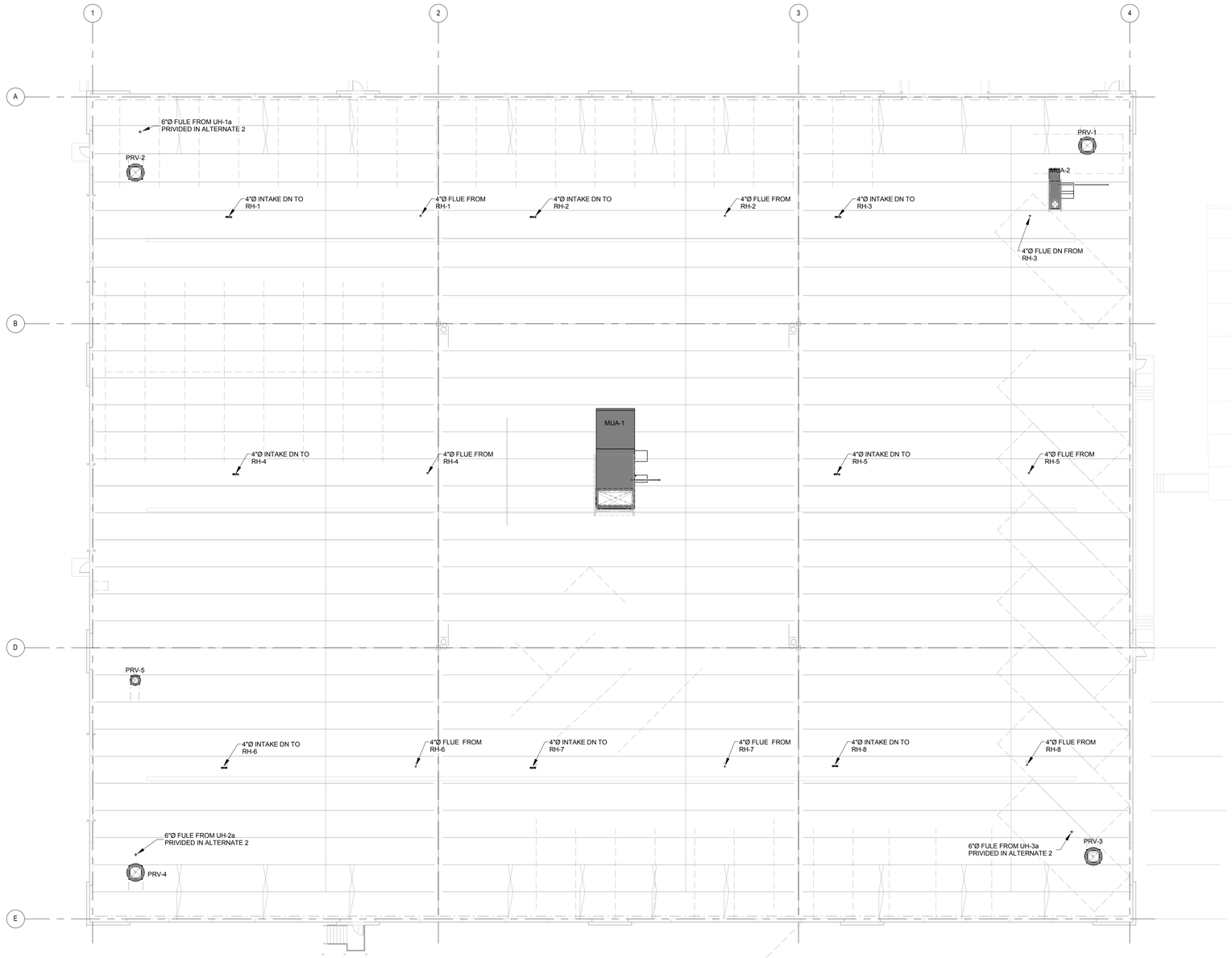
SHEET

First Floor HVAC Plan

H100



N

1 H101 HVAC Roof Plan
SCALE: 1/16" = 1'-0"

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HVAC Roof Plan

H101

MAKE UP AIR UNIT SCHEDULE

MARK	SERVES	UNIT AIRFLOW	ESP	TSP	BTU/Hr IN	BTU/Hr OUT	LAT@ -10°F EAT	ELECTRICAL				MODEL	MFG	WEIGHT	NOTES
								V	PH	HZ	MOTOR HP				
MUA-1	EMERGENCY EXHAUST	52000 CFM	0.25 in-wg	1.43 in-wg	5,025,000	4,623,000	72 °F	208	3	60	25 hp	R354	AbsoluteAire	9200 lb	1, 2, 3, 4, 5
MUA-2	GENERAL EXHAUST	3300 CFM	0.25 in-wg	1.34 in-wg	318,478	293,000	72 °F	208	3	60	2 hp	V3	ABSOLUTEAIRE	677 lb	1, 2, 5, 6

NOTES:
1. PROVIDE 14" ROOF INSULATED ROOF CURB
2. PROVIDE FILTERED INTAKE HOOD AND INTAKE DAMPER
3. PROVIDE VFD WITH SOFT START
4. PROVIDE CONTROL PANEL WITH DISCHARGE AIR TEMPERATURE SELECTOR
5. PROVIDE 25:1 BURNER TURN DOWN, ALUMINUM BURNER WITH STAINLESS STEEL MIXING PLATES.
6. PROVIDE CONTROL PANEL WITH ROOM AIR TEMPERATURE CONTROL

ROOF EXHAUST FAN SCHEDULE

TAG	SERVES	Airflow	TSP	MOTOR			ELECTRICAL			MOUNTING LOCATION	ROOF OPENING		MODEL	MFG	WEIGHT	NOTES
				HP	BHP	RPM	V	PH	HZ		WIDTH	HEIGHT				
PRV-1	GARAGE	13000 CFM	0.50 in-wg	5.00 hp	3.53 hp	1725	208 V	3	60 Hz	Roof Mounted	38 1/2"	38 1/2"	GB-330-50	Greenheck	323.40 lb	1, 2, 3, 4
PRV-2	GARAGE	13000 CFM	0.50 in-wg	5.00 hp	3.53 hp	1725	208 V	3	60 Hz	Roof Mounted	38 1/2"	38 1/2"	GB-330-50	Greenheck	323.40 lb	1, 2, 3, 4
PRV-3	GARAGE	13000 CFM	0.50 in-wg	5.00 hp	3.53 hp	1725	208 V	3	60 Hz	Roof Mounted	38 1/2"	38 1/2"	GB-330-50	Greenheck	323.40 lb	1, 2, 3, 4
PRV-4	GARAGE	13000 CFM	0.50 in-wg	5.00 hp	3.53 hp	1725	208 V	3	60 Hz	Roof Mounted	38 1/2"	38 1/2"	GB-330-50	Greenheck	323.40 lb	1, 2, 3, 4
PRV-5	GARAGE	3300 CFM	0.50 in-wg	0.75 hp	0.69 hp	1725	208 V	3	60 Hz	Roof Mounted	20 1/2"	20 1/2"	GB-180-7	Greenheck	144.00 lb	1, 2, 3, 5

NOTES:
1. PROVIDE DISCONNECT
2. PROVIDE GRAVITY BACKDRAFT DAMPER
3. PROVIDE 18" ROOF CURB
4. PROVIDE STARTER WITH 24V CONNECTION TO GAS DETECTION, INSTALLED BY EC
5. FAN TO OPERATE CONTINUOUSLY

GAS FIRED RADIANT HEAT SCHEDULE

Mark	SERVES	BTU IN	BTU OUT	V	PH	MCA	MOCP	MODEL	MFG	WEIGHT	NOTES
RH-1	GARAGE	100000 Btu	83000 Btu	120 V	1	4.8 A	15 A	DES3-50-100	DETROIT RADIANT	235.00 lb	1, 2, 3
RH-2	GARAGE	100000 Btu	83000 Btu	120 V	1	4.8 A	15 A	DES3-50-100	DETROIT RADIANT	235.00 lb	1, 2, 3
RH-3	GARAGE	100000 Btu	83000 Btu	120 V	1	4.8 A	15 A	DES3-50-100	DETROIT RADIANT	235.00 lb	1, 2, 3
RH-4	GARAGE	100000 Btu	83000 Btu	120 V	1	4.8 A	15 A	DES3-50-100	DETROIT RADIANT	235.00 lb	1, 2, 3
RH-5	GARAGE	100000 Btu	83000 Btu	120 V	1	4.8 A	15 A	DES3-50-100	DETROIT RADIANT	235.00 lb	1, 2, 3
RH-6	GARAGE	100000 Btu	83000 Btu	120 V	1	4.8 A	15 A	DES3-50-100	DETROIT RADIANT	235.00 lb	1, 2, 3
RH-7	GARAGE	100000 Btu	83000 Btu	120 V	1	4.8 A	15 A	DES3-50-100	DETROIT RADIANT	235.00 lb	1, 2, 3
RH-8	GARAGE	100000 Btu	83000 Btu	120 V	1	4.8 A	15 A	DES3-50-100	DETROIT RADIANT	235.00 lb	1, 2, 3

NOTES:
1. PROVIDE ROOF VENT CAP AND COMBUSTION AIR INTAKE THROUGH ROOF
2. PROVIDE 7-DAY PROGRAMABLE TSTAT IN LOCATION
3. RADIANT HEATERS PROVIDED IN BASE BID, ALT #2 REPLACES RADIANT HEATERS WITH UNIT HEATERS

GRILLES REGISTERS AND DIFFUSERS SCHEDULE

TAG	TYPE	MOUNT	AIR FLOW CFM	NECK SIZE	FACE SIZE	MODEL	MFG	NOTES
SD-1	Supply Air	PLENUM	SEE PLAN		1"><NECK	520-Steel Double Deflection	PRICE	1, 2
EG-1	Exhaust Air	DUCT	SEE PLAN		1"><NECK	EXPANDED METAL	PRICE	

NOTES:
1. PROVIDE BAKED WHITE ENAMEL FINISH, VERIFY WITH ARCHITECT

DUCT CONSTRUCTION SCHEDULE

SYSTEM TYPE	SYSTEM LOCATION	MATERIAL	SMACNA PRESSURE CLASS	SMACNA SEAL CLASS	INSULATION TYPE	MIN. R-VALUE	INSULATION THICKNESS	NOTES
EXHAUST	ALL	GALVANIZED	2"	B	NONE			
SUPPLY	ALL	GALVANIZED	2"	A	NONE			

UNIT HEATER SCHEDULE

TAG	SPACE	AIRFLOW	TYPE	BTU IN	BTU OUT	FAN HP	V	ø	HZ	AMPS	MOCP	MODEL	MFG	WEIGHT	NOTES
UH-1a	MEZZANINE	3843 CFM	GAS	300000 Btu	249000 Btu	0.5 hp	115 V	1	60 Hz	11 A	20 A	UDAP 300	REZNOR	270.00 lb	1, 2, 3
UH-2a	MEZZANINE	3843 CFM	GAS	300000 Btu	249000 Btu	0.5 hp	115 V	1	60 Hz	11 A	20 A	UDAP 300	REZNOR	270.00 lb	1, 2, 3
UH-3a	MEZZANINE	3843 CFM	GAS	300000 Btu	249000 Btu	0.5 hp	115 V	1	60 Hz	11 A	20 A	UDAP 300	REZNOR	270.00 lb	1, 2, 3

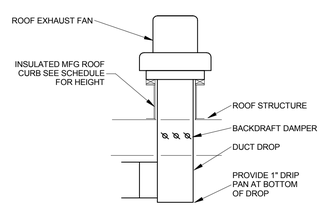
NOTES:
1. PROVIDE 7-DAY PROGRAMMABLE THEREMOSTAT IN LOCATION SHOWN
2. MOUNT UNIT WITH NON-COMBUSTABLE HANGERS
3. PROVIDED IN ALTERNATE 2

HVAC SYMBOLS AND ABBREVIATIONS

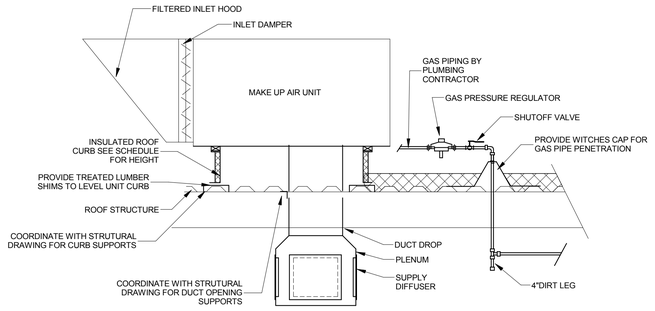
12X10	12"WIDE X 10"DEEP DUCT
12X10	12"ROUND DUCT
	LINED DUCT
	RECT ELBOW
	RECT ELBOW WITH TURNING VANES
	RECT ELBOW UP OR DOWN
T	THERMOSTAT
S	SENSOR
CO	CO SENSOR
NO2	NO2 SENSOR
CO2	CO2 SENSOR
CP	CONTROL PANEL
$	WALL SWITCH
SD	SMOKE DETECTOR
TC	TIMECLOCK
VD	VOLUME DAMPER
	MOTORIZED DAMPER
	SUPPLY
	RETURN
	ROUND ELBOW
	RECTANGULAR RADIUS ELBOW
	FLEX DUCT
	ROUND TAP
12X10AL	12X10 ALUMINUM DUCT
12X10SS	12X10 STAINLESS STEEL DUCT
12X10BI	12X10 BLACK IRON DUCT
	CONNECTION TO EXISTING
HHWS	HEATING HOT WATER SUPPLY
HHWR	HEATING HOT WATER RETURN
F/S	FIRE SMOKE DAMPER
F	FIRE DAMPER
S	SMOKE DAMPER
RD	RADIATION DAMPER
RVD	REMOTE OPERATED VOLUME DAMPER
MOD	MOTOR OPERATED DAMPER
SA	SUPPLY AIR
RA	RETURN AIR
EA	EXHAUST AIR
RE	RELIEF AIR
OA	OUTSIDE AIR

GENERAL NOTES

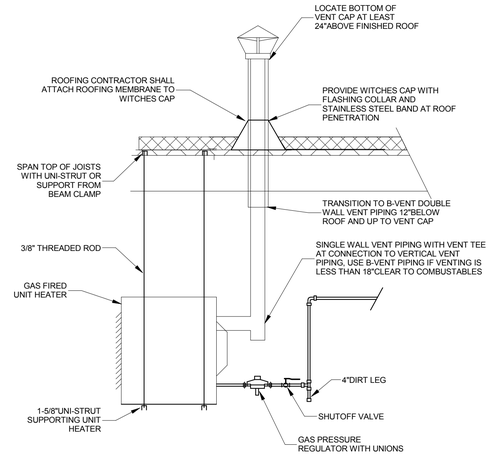
1. ALL DUCTWORK IS DIAGRAMMATIC AND COORDINATED TO THE BEST AVAILABLE INFORMATION. CONTRACTOR SHALL VERIFY STRUCTURE AND LOCATION OF OTHER TRADES PRIOR TO FABRICATION.
2. LIMIT FLEX RUNS TO A MAXIMUM OF 5'-0" AND ROUTE AS STRAIGHT AS POSSIBLE.
3. INSTALL ALL EQUIPMENT PER LOCAL AND STATE CODES AND PER MANUFACTURERS RECOMMENDATIONS.
4. SYSTEM SHALL BE BALANCED BY THE INSTALLING CONTRACTOR. BALANCE AIR FLOWS FOR GRILLES AND EQUIPMENT TO +/- 10% OF SCHEDULED AIRFLOWS. INCLUDE SYSTEM MANUFACTURER, MODEL, SERIAL NUMBER, RPM, HORSEPOWER, VOLTAGE, AMPERAGE, ETC. IN REPORTS. SUBMIT THE BALANCING REPORTS TO THE DESIGN PROFESSIONAL BEFORE A COMPLIANCE STATEMENT CAN BE SUBMITTED.
5. GAS PIPING SHALL BE SCHEDULE 40 BLACK IRON. PIPE 2" AND SMALLER SHALL HAVE THREADED PIPE CONNECTIONS AND FITTINGS. PIPE 2-1/2" AND LARGER SHALL HAVE WELDED CONNECTIONS AND FITTINGS. PROVIDE GAS REGULATOR AS NECESSARY.
6. OUTSIDE AIR INTAKES SHALL BE A MINIMUM OF 10'-0" FROM ANY BUILDING EXHAUST, FLUES, PLUMBING VENTS AND LOT LINE.
7. LOW VOLTAGE WIRING SHALL BE BY HVAC CONTRACTOR.
8. COORDINATE DIFFUSER LAYOUT WITH LIGHTING LAYOUT.
9. CONTRACTORS NEED PRIOR APPROVAL FOR QUOTING ALTERNATE EQUIPMENT. ALTERNATE EQUIPMENT MAY REQUIRE OPTION ACCESSORIES TO MATCH BASE BID EQUIPMENT. CONTRACTORS ARE RESPONSIBLE FOR FURNISHING ALL SUCH ITEMS.
10. DUCT SIZES LISTED ON PLANS ARE THE REQUIRED CLEAR INSIDE DIMENSIONS.
11. THE CONTRACTOR SHALL PROVIDE THE OWNER WITH WRITTEN INSTRUCTIONS FOR THE OPERATION AND MAINTENANCE OF THE SYSTEM AND EQUIPMENT.
12. THERMOSTAT LOCATIONS SHALL BE REVIEWED BY OWNER. TENANT AND CONTRACTOR BEFORE INSTALLATION. CONTROLS SHALL BE LOCATED 48" ABOVE FINISHED FLOOR.
13. UNITS SHALL BE SUSPENDED WITH NON-COMBUSTIBLE HANGERS.



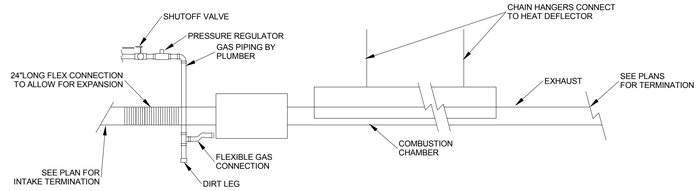
1 H300 EXHAUST FAN DROP DETAIL
SCALE: NO SCALE



2 H300 MUA DROP DETAIL
SCALE: NO SCALE



6 H300 GAS FIRED UNIT HEATER
SCALE: NO SCALE



3 H300 GAS FIRED RADIANT HEATER DETAIL
SCALE: NO SCALE

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PROJECT

PROPOSED BUILDING FOR:
VILLAGE OF PLEASANT PRAIRIE

Village of Pleasant Prairie Storage Garage
VILLAGE OF PLEASANT PRAIRIE:

CONSTRUCTION MANAGER

RILEY CONSTRUCTION

REVISIONS

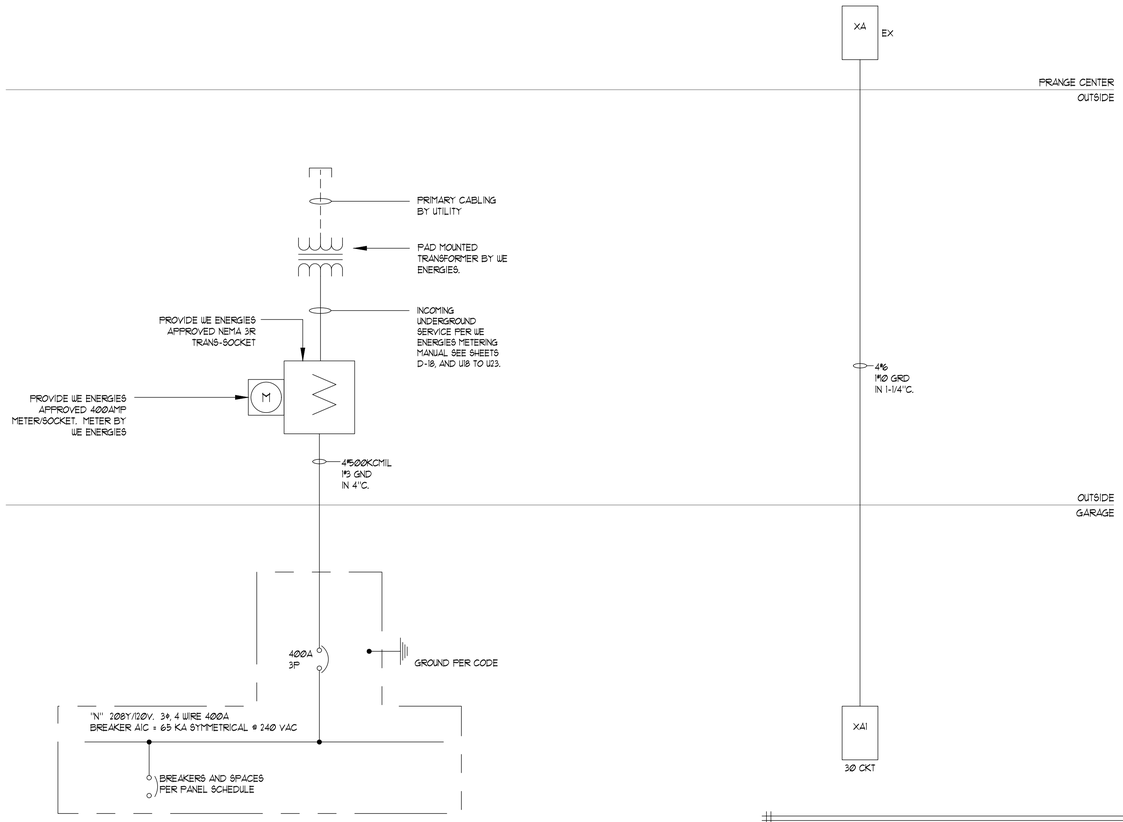
NO.	DESCRIPTION	DATE

INFORMATION

PROJECT DESIGNER	JL
PROJECT REVIEWER	TCP
PROJECT NUMBER	RCC-15-785
ISSUED FOR	CONSTRUCTION (BP#3)
DATE	MARCH 18, 2016

SHEET
Schedules and Details

H300



208Y/120V 400 AMP ONE LINE RISER DIAGRAM

NOT TO SCALE

ONE LINE RISER DIAGRAM NOTES:

1. REFER TO WE ENERGIES METERING MANUAL PAGE M-23
2. ELECTRICAL CONTRACTOR TO COORDINATE THE NEW 400 AMP 208Y/120V, 3Φ 4W, UNDERGROUND ELECTRICAL SERVICE WITH WE ENERGIES. CONTACT PATRICK T. CONNER AT THE FOLLOWING NUMBERS:
   OFFICE PHONE - 262-552-3277
   CELL PHONE - 262-818-5667
3. GROUND SERVICE PER CODE.
4. ALL WE ENERGIES COSTS TO BE PAID BY OWNER.

ELECTRICAL SYMBOLS

- HI-BAY FIXTURE
- HI-BAY FIXTURE - EMERGENCY
- WALL BRACKET
- WALL BRACKET - EMERGENCY
- RECESSED FIXTURE
- WALL MOUNTED FIXTURE
- CEILING MOUNTED EXIT SIGN
- WALL MOUNTED EXIT SIGN
- SINGLE POLE TOGGLE SWITCH (K) WEATHERPROOF KEY SWITCH MOUNT 48" ABOVE FLOOR TO TOP OF BOX.
- C — CONTACTOR
- OS — OCCUPANCY SENSOR
- PC — PHOTOCELL
- DUPLEX RECEPTACLE 48" ABOVE FLOOR TO TOP OF BOX OR HEIGHT AS INDICATED
- DUPLEX RECEPTACLE HORIZONTAL ABOVE COUNTER
- SPECIAL OUTLET
- MOTOR
- DISCONNECT SWITCH
- JUNCTION BOX
- PUSHBUTTON - MOUNT 48" ABOVE FLOOR TO TOP OF BOX. SEE DETAIL 2/E3Ø0 FOR CONDUIT REQUIREMENTS.
- ELECTRICAL PANEL
- DETAIL NUMBER
- NOTE OR DETAIL SYMBOL
- SHEET LOCATION

FIRE ALARM SYMBOLS

- FACP — FIRE ALARM CONTROL PANEL
- FAAP — FIRE ALARM ANNUNCIATOR PANEL
- NAC — FIRE ALARM NOTIFICATION APPLIANCE CIRCUIT PANEL
- FIRE ALARM PULL STATION 48" AFF
- NEW HORN 80" AFF TO BOTTOM OF BOX
- NEW CEILING MOUNTED FIRE ALARM HORN/STROBE, (**) IS CANDELA RATING
- MM — ADDRESSABLE MONITOR MODULE
- CM — ADDRESSABLE CONTROL MODULE
- TS — SPRINKLER TAMPER SWITCH (PROVIDE ADDRESSABLE MODULE)
- FS — SPRINKLER FLOW SWITCH (PROVIDE ADDRESSABLE MODULE)

ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
BFG	BELOW FINAL GRADE
BOL	BUILT-IN OVERLOAD
C	CONDUIT
CKT	CIRCUIT
CB	COMBINATION STARTER
D	DEDICATED
DD	DOUBLE DUPLEX
EC	ELECTRICAL CONTRACTOR
EWC	ELECTRIC WATER COOLER
ER	EXISTING TO BE REMOVED
ERL	EXISTING RELOCATED (NEW LOCATION)
ETL	EXISTING TO BE RELOCATED (OLD LOCATION)
EX	EXISTING TO REMAIN
FACP	FIRE ALARM CONTROL PANEL
GC	GENERAL CONTRACTOR
GFI	GROUND FAULT INTERRUPTER
HV	HEATING AND VENTILATION CONTRACTOR
IG	ISOLATED GROUND
IR	IN ROOM
IU	IN UNIT
MAN	MANUAL STARTER
MAG	MAGNETIC STARTER
MCA	MINIMUM CIRCUIT AMPACITY
NIC	NOT IN CONTRACT
NL	NIGHT LIGHT - UNSWITCHED
NU	NEAR UNIT
PB	PUSHBUTTON
PC	PLUMBING CONTRACTOR
PW	PRE-WIRED
RV	REDUCED VOLTAGE STARTER
RAI	REMAIN AS IS
SC	SEPARATE CIRCUIT
SS	SPEED SWITCH
SW	SWITCH
TC	TIMECLOCK
TS	THERMOSTAT
UM	UNIT MANUFACTURER
WP	WEATHERPROOF

ELECTRICAL SHEET INDEX

SHEET NUMBER	SHEET NAME
E000	SYMBOLS, ABBREVIATIONS & ONE LINE DIAGRAM
E0Ø0	SITE PLAN - ELECTRICAL
E1Ø0	FIRST FLOOR PLAN - LIGHTING
E2Ø0	FIRST FLOOR PLAN - POWER & SYSTEMS
E3Ø0	ELECTRICAL SCHEDULES
E3Ø1	ELECTRICAL SCHEDULES

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PROJECT

PROPOSED BUILDING FOR:

VILLAGE OF PLEASANT PRAIRIE

DEPARTMENT OF PUBLIC WORKS

VILLAGE OF PLEASANT PRAIRIE:

CONSTRUCTION MANAGER

RILEY CONSTRUCTION

REVISIONS

NO.	DESCRIPTION	DATE

INFORMATION

PROJECT ARCHITECT	SPS
PROJECT MANAGER	MAM
PROJECT NUMBER	RCC-15-785
ISSUED FOR	CONSTRUCTION (BP #3)
DATE	MARCH 18, 2016

SHEET

SYMBOLS, ABBREVIATIONS & ONE LINE DIAGRAM

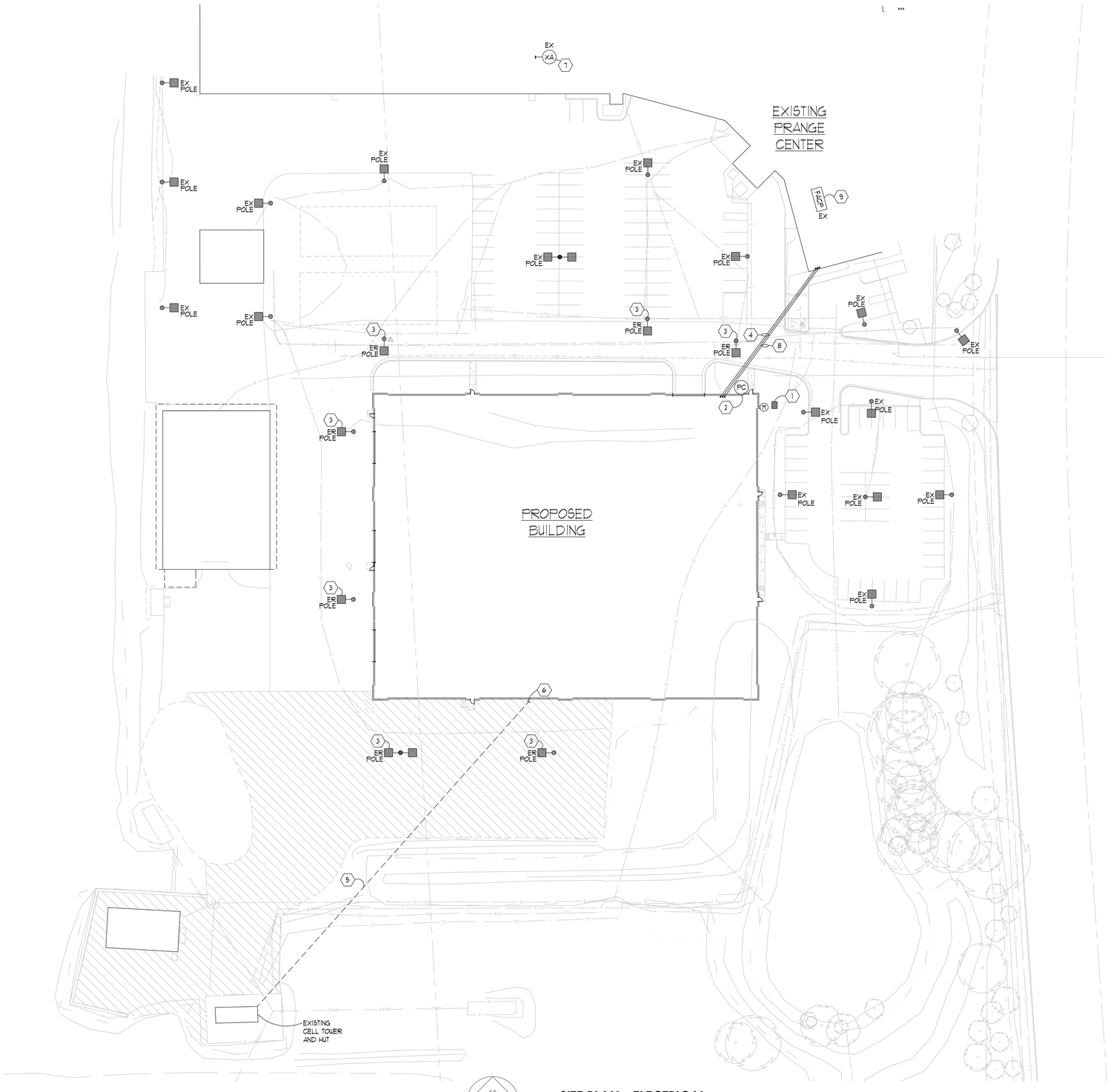
E000

GENERAL NOTES:

1. ...

KEYED NOTES:

1. UTILITY PAD MOUNTED TRANSFORMER.
2. WALL MOUNT PHOTOCELL AT 15'-Ø" AFG.
3. EXISTING SITE LIGHTING POLE TO BE REMOVED BY OWNER. ELECTRICAL CONTRACTOR SHALL EXTEND CIRCUIT TO REMAINING POLES TO MAINTAIN CIRCUIT CONTINUITY.
4. PROVIDE (2) 2" CONDUITS BETWEEN THE NEW BUILDING AND THE PRANGE CENTER. VERIFY INCOMING LOCATION TO THE PRANGE CENTER WITH THE IT DEPARTMENT. OWNER TO PROVIDE TRENCHING BETWEEN BUILDINGS.
5. EXISTING UNDERGROUND FIBER OPTIC CABLE - LOCATE IN FIELD.
6. STUB OUT 2" HUPVC 30" BFG. OWNER WILL RE-ROUTE FIBER OPTIC CABLE DISTURBED BY CONSTRUCTION THROUGH 2" HUPVC, ROUTE IT THROUGH THE PROPOSED BUILDING, AND EXTEND IT TO THE PRANGE CENTER.
7. APPROXIMATE LOCATION OF EXISTING LIFE SAFETY PANEL "XA" ON SECOND FLOOR. OWNER TO ADJUST EXISTING CIRCUITING TO MAKE ROOM FOR NEW 60A, 3P CIRCUIT BREAKER. ELECTRICIAN IS RESPONSIBLE FOR EXTENDING NEW CIRCUIT TO NEW PANEL "XAI" LOCATED IN GARAGE.
8. FEEDER FOR PANEL XAI BETWEEN THE NEW BUILDING AND THE PRANGE CENTER. COORDINATE INCOMING LOCATION TO THE PRANGE CENTER WITH THE CONDUITS PROVIDED IN NOTE #4. COORDINATE ROUTE INSIDE THE PRANGE BUILDING WITH OWNER PRIOR TO INSTALLATION. OWNER TO PROVIDE TRENCHING BETWEEN BUILDINGS.
9. APPROXIMATE LOCATION OF EXISTING FIRE ALARM CONTROL PANEL LOCATED IN THE DISPATCH ROOM.



1 **SITE PLAN - ELECTRICAL**
SCALE: 1" = 40'-0"

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PROJECT

PROPOSED BUILDING FOR:

VILLAGE OF PLEASANT PRAIRIE

DEPARTMENT OF PUBLIC WORKS
VILLAGE OF PLEASANT PRAIRIE:

CONSTRUCTION MANAGER

RILEY CONSTRUCTION

REVISIONS

NO.	DESCRIPTION	DATE

INFORMATION

PROJECT ARCHITECT	SPS
PROJECT MANAGER	MAM
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DATE	MARCH 18, 2016

SHEET

SITE PLAN - ELECTRICAL

E010

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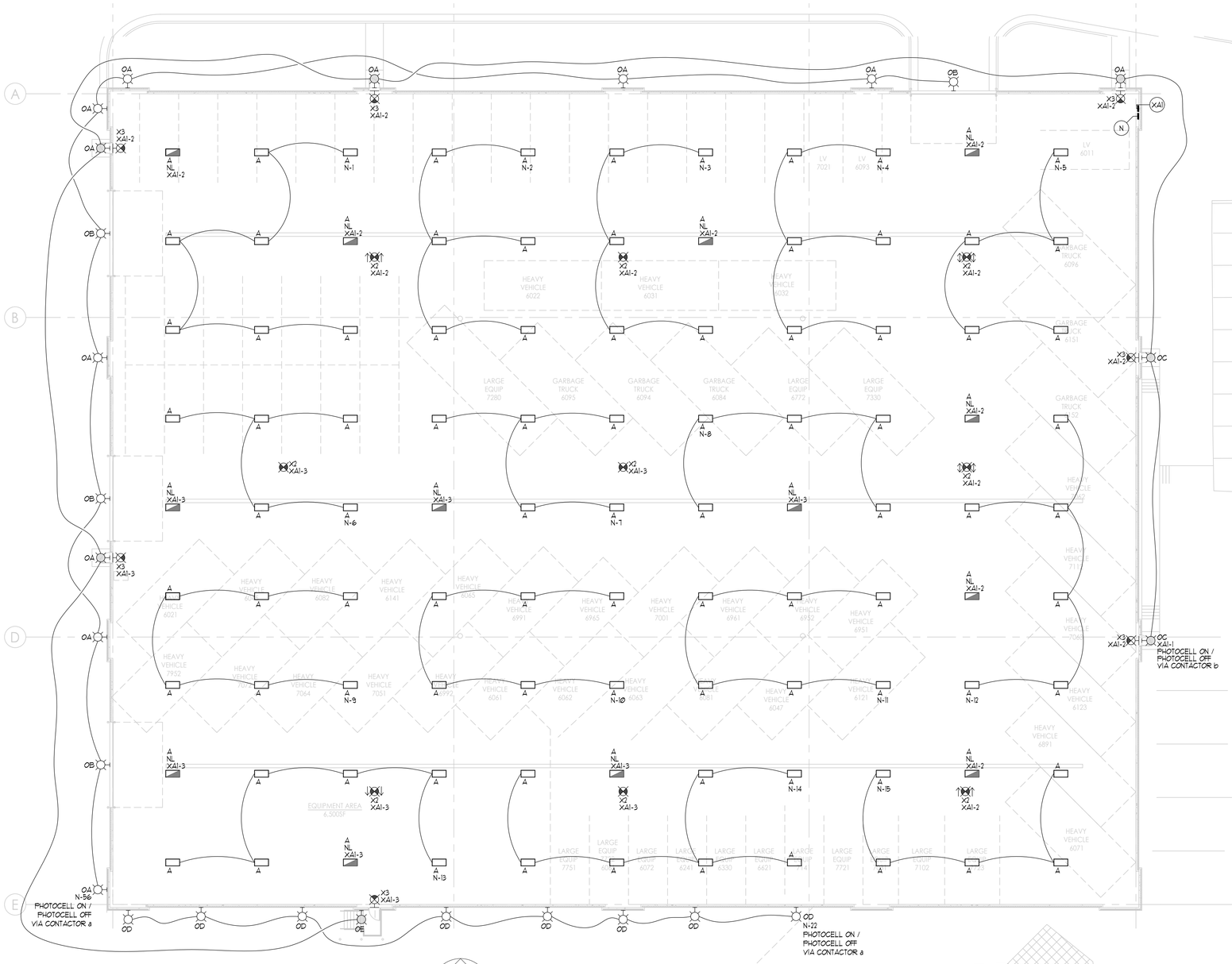
GENERAL NOTES:

1. FIXTURE TYPE "A" HAS INTEGRAL OCCUPANCY SENSOR.



1 **FIRST FLOOR PLAN - LIGHTING**
SCALE: 1/16" = 1'-0"

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PROJECT

PROPOSED BUILDING FOR:

VILLAGE OF PLEASANT PRAIRIE

DEPARTMENT OF PUBLIC WORKS
VILLAGE OF PLEASANT PRAIRIE:

CONSTRUCTION MANAGER

RILEY CONSTRUCTION

REVISIONS

NO.	DESCRIPTION	DATE

INFORMATION

PROJECT ARCHITECT	SPS
PROJECT MANAGER	MAM
PROJECT NUMBER	RCC-15-785
ISSUED FOR	CONSTRUCTION (BP #3)
DATE	MARCH 18, 2016

SHEET

FIRST FLOOR PLAN - LIGHTING

E100

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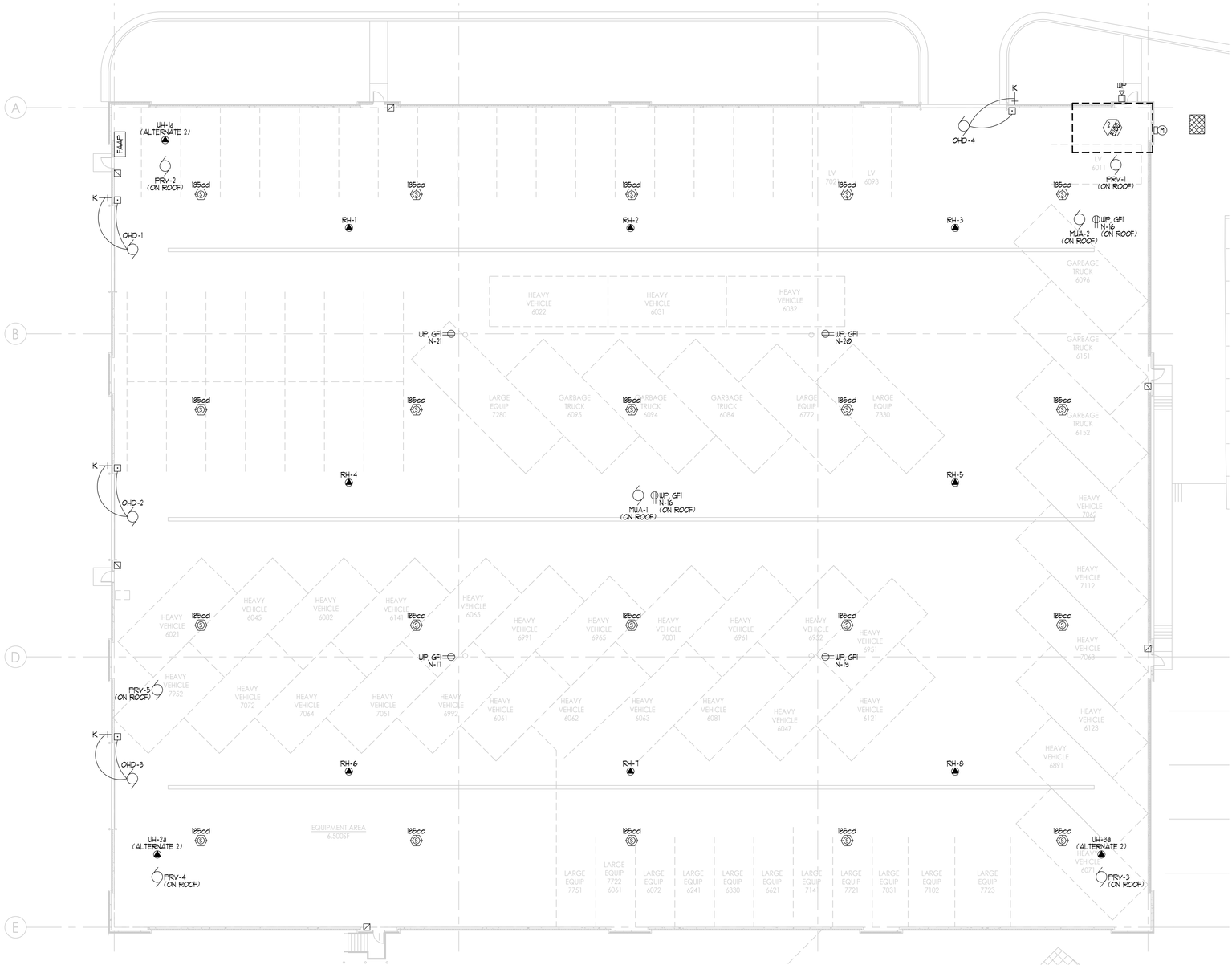
GENERAL NOTES:

1. SEE DETAIL 3/E200 FOR CONDUIT REQUIREMENTS WITHIN GARAGE FOR DUPLEX RECEPTACLES.
2. PROVIDE MONITOR MODULES FOR (5) TAMPER AND (2) FLOW SWITCHES COORDINATE LOCATIONS WITH FIRE PROTECTION CONTRACTOR.

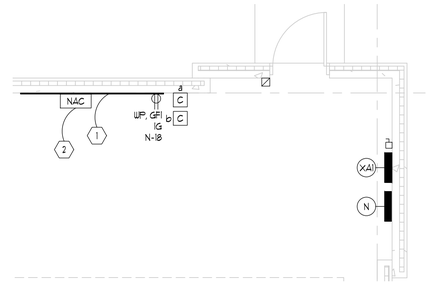
KEYED NOTES:

1. PROVIDE (1) SINGLE SHEET OF 4' X 4' X 3/4" PLYWOOD BACKBOARD. PROVIDE #6 SERVICE GROUND AND (2) 4" SCHEDULE 40 HUB, GFIVC MINIMUM OF 36" BFG FROM TELEPHONE BACKBOARD TO THE PRANGE CENTER WHERE DESIGNATED BY THE IT DEPARTMENT. SEE SHEET E200 FOR ADDITIONAL INFORMATION.
2. FIRE ALARM NAC PANEL SHALL BE SERVED FROM THE EXISTING FIRE ALARM CONTROL PANEL IN THE PRANGE CENTER.
3. PROVIDE CARLON NON-METALLIC WEATHERPROOF OUTLET BOX KIT CATALOG #E989GDRN.



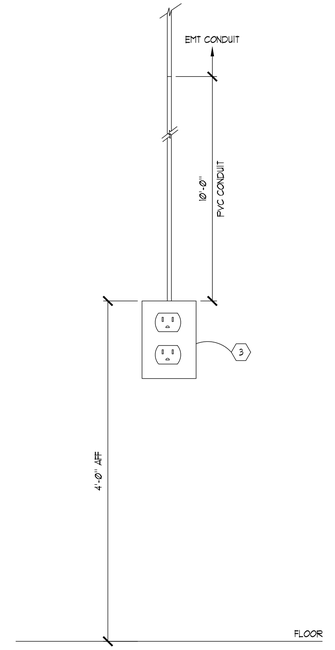
1 FIRST FLOOR PLAN - POWER & SYSTEMS

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



2 ENLARGED PLAN - ELECTRICAL EQUIPMENT

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



3 RECEPTACLE CONDUIT DETAIL

NOT TO SCALE

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PROJECT

PROPOSED BUILDING FOR:

VILLAGE OF PLEASANT PRAIRIE

DEPARTMENT OF PUBLIC WORKS
VILLAGE OF PLEASANT PRAIRIE:

CONSTRUCTION MANAGER

RILEY CONSTRUCTION

REVISIONS

NO.	DESCRIPTION	DATE

INFORMATION

PROJECT ARCHITECT	SPS
PROJECT MANAGER	MAM
PROJECT NUMBER	RCC-15-785
ISSUED FOR	CONSTRUCTION (BP #3)
DATE	MARCH 18, 2016

SHEET

FIRST FLOOR PLAN - POWER & SYSTEMS

E200

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CONTACTOR SCHEDULE

NO.	MAKE	CATALOG NO.	LOCATION	TOTAL POLES	CIRCUITS TO CONTROL	TO CONTROL	LOCATION	SEE NOTE
a	SQUARE D	8903SMG3VO2	ELECTRICAL AREA	4	N-22 & N-56	C a (PHOTO ON / PHOTO OFF)	ELECTRICAL AREA	1
b	SQUARE D	8903SMG3VO2	ELECTRICAL AREA	4	XA1-1	C b (PHOTO ON / PHOTO OFF)	ELECTRICAL AREA	1

NOTE:

1. OR APPROVED EQUIVALENT.

SPECIAL PURPOSE OUTLET SCHEDULE

TAG	DRIVING	LOC.	FEED FROM		BREAKER		BRANCH WIRING			POWER			SEE NOTE
			PANEL	CIRCUIT	SIZE	POLE	NO	SIZE	COND.	VOLT	PH	LOAD	
RH-1	GAS FIRED RADIANT HEAT	GARAGE	N	23	15	1	2 + G	12	1/2"	120	1	1.7A	1, 2
RH-2	GAS FIRED RADIANT HEAT	GARAGE	N	23	15	1	2 + G	12	1/2"	120	1	1.7A	1, 2
RH-3	GAS FIRED RADIANT HEAT	GARAGE	N	23	15	1	2 + G	12	1/2"	120	1	1.7A	1, 2
RH-4	GAS FIRED RADIANT HEAT	GARAGE	N	23	15	1	2 + G	12	1/2"	120	1	1.7A	1, 2
RH-5	GAS FIRED RADIANT HEAT	GARAGE	N	24	15	1	2 + G	12	1/2"	120	1	1.7A	1, 2
RH-6	GAS FIRED RADIANT HEAT	GARAGE	N	24	15	1	2 + G	12	1/2"	120	1	1.7A	1, 2
RH-7	GAS FIRED RADIANT HEAT	GARAGE	N	24	15	1	2 + G	12	1/2"	120	1	1.7A	1, 2
RH-8	GAS FIRED RADIANT HEAT	GARAGE	N	24	15	1	2 + G	12	1/2"	120	1	1.7A	1, 2
UH-1a	UNIT HEATER	GARAGE	N	58	20	1	2 + G	12	1/2"	120	1	11A	3
UH-2a	UNIT HEATER	GARAGE	N	60	20	1	2 + G	12	1/2"	120	1	11A	3
UH-3a	UNIT HEATER	GARAGE	N	61	20	1	2 + G	12	1/2"	120	1	11A	3

NOTES:

1. PROVIDE RECEPTACLE. COORDINATE LOCATION WITH MECHANICAL CONTRACTOR PRIOR TO INSTALLATION.
2. PROVIDED IN BASE BID.
3. PROVIDED IN ALTERNATE 2.

LIGHT FIXTURE SCHEDULE - BASE BID

TAG	LAMP DATA		DESCRIPTION	LIGHTING FIXTURE		MOUNT	CEILING	VOLT	SEE NOTE
	NO	TYPE		MAKE	CATALOG NO		TYPE		
A	8	F32T8	FLUORESCENT HIGH BAY	LITHONIA	IBZ-832L-WD-120-GEB10PS-LP835-MSE360	PENDANT	EXPOSED	120	6
OA	-	50W LED / 4586 LUMENS / 4000K	EXTERIOR WALL PACK	RAB LIGHTING	WPLED-4T-50-N	SURFACE	WALL	120	4, 6
OB	-	78W LED / 6673 LUMENS / 4000K	EXTERIOR WALL PACK	RAB LIGHTING	WPLED-4T-78-N	SURFACE	WALL	120	5, 6
OC	-	50W LED / 4386 LUMENS / 4000K	EXTERIOR WALL PACK	RAB LIGHTING	WPLED-2T-50-N	SURFACE	WALL	120	4, 6
OD	-	150W LED / 11786 LUMENS / 4000K	EXTERIOR WALL PACK	RAB LIGHTING	WPLED-4T-150-N	SURFACE	WALL	120	1, 6
OE	-	150W LED / 11847 LUMENS / 4000K	EXTERIOR WALL PACK	RAB LIGHTING	WPLED-2T-150-N	SURFACE	WALL	120	4, 6
X1	-	LED	EXIT SIGN - SINGLE FACE	LITHONIA	LQM-S-W-3-R-120/277	PENDANT	EXPOSED	120	2, 6
X2	-	LED	EXIT SIGN - DOUBLE FACE	LITHONIA	LQM-S-W-3-R-120/277	PENDANT	EXPOSED	120	2, 6
X3	-	LED	EXIT SIGN - SINGLE FACE	LITHONIA	LQM-S-W-3-R-120/277	SURFACE	WALL	120	3, 6

NOTES:

1. CENTERLINE OF FIXTURE SHALL BE AT 17'-0" AFG.
2. BOTTOM OF EXIT SIGN SHALL BE IN LINE WITH THE BOTTOM OF THE TRUSS.
3. BOTTOM OF EXIT SIGN SHALL BE AT 15' AFF.
4. CENTERLINE OF FIXTURE SHALL BE AT 13'-10" AFG.
5. CENTERLINE OF FIXTURE SHALL BE AT 15'-10" AFG.
6. OR APPROVED EQUAL BY COOPER OR PHILIPS.

LIGHT FIXTURE SCHEDULE - ALTERNATE BID

TAG	LAMP DATA		DESCRIPTION	LIGHTING FIXTURE		MOUNT	CEILING	VOLT	SEE NOTE
	NO	TYPE		MAKE	CATALOG NO		TYPE		
A	-	125W / 12000 LUMEN LED / 3500K	LED HIGH BAY	LITHONIA	IBL-12L-WD-SD125-MVOLT-LP835-MSE360	PENDANT	EXPOSED	120	8
OA	-	50W LED / 4586 LUMENS / 4000K	EXTERIOR WALL PACK	RAB LIGHTING	WPLED-4T-50-N	SURFACE	WALL	120	5, 8
OB	-	78W LED / 6673 LUMENS / 4000K	EXTERIOR WALL PACK	RAB LIGHTING	WPLED-4T-78-N	SURFACE	WALL	120	6, 8
OC	-	50W LED / 4386 LUMENS / 4000K	EXTERIOR WALL PACK	RAB LIGHTING	WPLED-2T-50-N	SURFACE	WALL	120	5, 8
OD	-	150W LED / 11786 LUMENS / 4000K	EXTERIOR WALL PACK	RAB LIGHTING	WPLED-4T-150-N	SURFACE	WALL	120	1, 8
OE	-	150W LED / 11847 LUMENS / 4000K	EXTERIOR WALL PACK	RAB LIGHTING	WPLED-2T-150-N	SURFACE	WALL	120	5, 8
X1	-	LED	EXIT SIGN - SINGLE FACE	LITHONIA	LQM-S-W-3-R-120/277	PENDANT	EXPOSED	120	3, 8
X2	-	LED	EXIT SIGN - DOUBLE FACE	LITHONIA	LQM-S-W-3-R-120/277	PENDANT	EXPOSED	120	3, 8
X3	-	LED	EXIT SIGN - SINGLE FACE	LITHONIA	LQM-S-W-3-R-120/277	SURFACE	WALL	120	4, 8

NOTES:

1. CENTERLINE OF FIXTURE SHALL BE AT 17'-0" AFG.
2. THE CONTROL WIRE SHALL BE CAPPED.
3. BOTTOM OF EXIT SIGN SHALL BE IN LINE WITH THE BOTTOM OF THE TRUSS.
4. BOTTOM OF EXIT SIGN SHALL BE AT 15' AFF.
5. CENTERLINE OF FIXTURE SHALL BE AT 13'-10" AFG.
6. CENTERLINE OF FIXTURE SHALL BE AT 15'-10" AFG.
7. CENTERLINE OF FIXTURE SHALL BE AT 12'-0" AFF.
8. OR APPROVED EQUAL BY COOPER OR PHILIPS.

C15126
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PROJECT

PROPOSED BUILDING FOR:

VILLAGE OF PLEASANT PRAIRIE

DEPARTMENT OF PUBLIC WORKS
VILLAGE OF PLEASANT PRAIRIE:

CONSTRUCTION MANAGER

RILEY CONSTRUCTION

REVISIONS

NO.	DESCRIPTION	DATE

INFORMATION

PROJECT ARCHITECT	SPS
PROJECT MANAGER	MAM
PROJECT NUMBER	RCC-15-785
ISSUED FOR	CONSTRUCTION (BP #3)
DATE	MARCH 18, 2016

SHEET

ELECTRICAL SCHEDULES

E300

PANEL N

400 AMP PANELBOARD - 400A MCB - 208Y/120V VOLT 3 PHASE 4 WIRE - SURFACE MOUNTING

BREAKER AMPS	BREAKER POLES	DESCRIPTION	Load Category	CIRCUIT WATTS	CIRCUIT #	PHASE LOADS A	PHASE LOADS B	PHASE LOADS C	CIRCUIT #	CIRCUIT WATTS	Load Category	DESCRIPTION	BREAKER AMPS	BREAKER POLES
20	1	LIGHTING	L	1540	1	2860			2	1320	L	LIGHTING	20	1
20	1	LIGHTING	L	1100	3		2420		4	1320	L	LIGHTING	20	1
20	1	LIGHTING	L	1100	5			2200	6	1100	L	LIGHTING	20	1
20	1	LIGHTING	L	1100	7	2200			8	1100	L	LIGHTING	20	1
20	1	LIGHTING	L	1320	9		2640		10	1320	L	LIGHTING	20	1
20	1	LIGHTING	L	1320	11			2640	12	1320	L	LIGHTING	20	1
20	1	LIGHTING	L	1320	13	2860			14	1540	L	LIGHTING	20	1
20	1	LIGHTING	L	1100	15		1460		16	360	R	RECEPT	20	1
20	1	RECEPT	R	180	17			360	18	180	R	RECEPT	20	1
20	1	RECEPT	R	180	19	360			20	180	R	RECEPT	20	1
20	1	RECEPT	R	180	21		1380		22	1200	L	LIGHTING	20	1
15	1	SPO - RH-1 - RH-4	H	816	23			1632	24	816	H	SPO - RH-5 - RH-8	15	1
110	3	MOTOR - MUA-1	V	9391	25	10328			26	937	V	MOTOR - MUA-2	15	3
			V	9391	27		10328		28	937	V			
			V	9391	29			10328	30	937	V			
35	3	MOTOR - PRV-1	V	2102	31	4204			32	2102	V	MOTOR - PRV-2	35	3
			V	2102	33		4204		34	2102	V			
			V	2102	35			4204	36	2102	V			
35	3	MOTOR - PRV-3	V	2102	37	4204			38	2102	V	MOTOR - PRV-4	35	3
			V	2102	39		4204		40	2102	V			
			V	2102	41			4204	42	2102	V			
15	3	MOTOR - PRV-5	V	444	43	1715			44	1271	E	MOTOR - OHD-1	20	3
			V	444	45		1715		46	1271	E			
			V	444	47			1715	48	1271	E			
20	3	MOTOR - OHD-2	E	1271	49	2542			50	1271	E	MOTOR - OHD-3	20	3
			E	1271	51		2542		52	1271	E			
			E	1271	53			2542	54	1271	E			
20	3	MOTOR - OHD-4	E	1271	55	1933			56	662	L	LIGHTING	20	1
			E	1271	57		2591		58	1320	H	SPO - UH-1a	20	1
			E	1271	59			2591	60	1320	H	SPO - UH-2a	20	1
20	1	SPO - UH-3a	H	1320	61	1320			62			SPARE	20	1
					63		0		64			SPARE	20	1
					65			0	66			SPARE	20	1
					67	0			68			SPARE	20	1
					69		0		70			SPARE	20	1
					71			0	72			SPARE	20	1
					73	0			74					
					75		0		76					
					77			0	78					
					79	0			80					
					81		0		82					
					83			0	84					
						34526	33484	32416				PANEL TOTAL LOADS =	100426	WATTS
													278.755	AMPS

NOTES:
1) SHARED NEUTRALS ARE NOT ACCEPTABLE THROUGHOUT THIS PROJECT. EACH BREAKER MUST HAVE A SEPARATE NEUTRAL CONDUCTOR FOR EACH CIRCUIT.
2) SINGLE TUB PANELBOARD, 84 CIRCUITS TOTAL.
3) CIRCUITS 58, 60 AND 61 ARE PROVIDED IN ALTERNATE 2.

PANEL XA1

60 AMP PANELBOARD - MLO - 208Y/120V VOLT 3 PHASE 4 WIRE - SURFACE MOUNTING

BREAKER AMPS	BREAKER POLES	DESCRIPTION	Load Category	CIRCUIT WATTS	CIRCUIT #	PHASE LOADS A	PHASE LOADS B	PHASE LOADS C	CIRCUIT #	CIRCUIT WATTS	Load Category	DESCRIPTION	BREAKER AMPS	BREAKER POLES
20	1	EXTERIOR LIGHTING	L	300	1	1870			2	1570	L	INTERIOR LIGHTING	20	1
20	1	INTERIOR LIGHTING	L	1332	3		1332		4			SPARE	20	1
					5			0	6			SPARE	20	1
					7	0			8					
					9		0		10					
					11			0	12					
					13	0			14					
					15		0		16					
					17			0	18					
					19	0			20					
					21		0		22					
					23			0	24					
					25	0			26					
					27		0		28					
					29			0	30					
						1870	1332	0				PANEL TOTAL LOADS =	3202	WATTS
													8.88786	AMPS

NOTES:
1) SHARED NEUTRALS ARE NOT ACCEPTABLE THROUGHOUT THIS PROJECT. EACH BREAKER MUST HAVE A SEPARATE NEUTRAL CONDUCTOR FOR EACH CIRCUIT.

MOTOR WIRING SCHEDULE

TAG	DRIVING	LOC.	POWER HP	POWER VOLT	POWER PH	FEED FROM PANEL	FEED FROM CIRCUIT	BREAKER SIZE	BREAKER POLE	BRANCH WIRING NO	BRANCH WIRING SIZE	BRANCH WIRING COND.	STARTER FURN.	STARTER INST.	STARTER WIRED	STARTER LOC.	STARTER TYPE	DISCONNECT FURN.	DISCONNECT INST.	DISCONNECT WIRED	DISCONNECT LOC.	DISCONNECT TYPE	SEE NOTE
MUA-1	MAKE UP AIR UNIT - EMERGENCY EXHAUST	ROOF	25HP	208	3	N	25, 27, 29	110	3	3 + G	1	1-1/4"	HV	EC	EC	NU	VFD	EC	EC	EC	NU	NFD	
MUA-2	MAKE UP AIR UNIT - GENERAL EXHAUST	ROOF	2HP	208	3	N	26, 28, 30	15	3	3 + G	12	1/2"	HV	EC	EC	NU	VFD	EC	EC	EC	NU	NFD	
OHD-1	OVERHEAD DOOR	GARAGE	3HP	280	3	N	44, 46, 48	20	3	3 + G	12	1/2"	MFR	MFR	EC	OU	MAG	EC	EC	EC	NU	NFD	1
OHD-2	OVERHEAD DOOR	GARAGE	3HP	280	3	N	49, 51, 53	20	3	3 + G	12	1/2"	MFR	MFR	EC	OU	MAG	EC	EC	EC	NU	NFD	1
OHD-3	OVERHEAD DOOR	GARAGE	3HP	280	3	N	50, 52, 54	20	3	3 + G	12	1/2"	MFR	MFR	EC	OU	MAG	EC	EC	EC	NU	NFD	1
OHD-4	OVERHEAD DOOR	GARAGE	3HP	280	3	N	55, 57, 59	20	3	3 + G	12	1/2"	MFR	MFR	EC	OU	MAG	EC	EC	EC	NU	NFD	1
PRV-1	ROOF EXHAUST FAN	ROOF	5HP	208	3	N	31, 33, 35	35	3	3 + G	8	3/4"	HV	EC	EC	NU	MAG	HV	EC	EC	NU	WP	
PRV-2	ROOF EXHAUST FAN	ROOF	5HP	208	3	N	32, 34, 36	35	3	3 + G	8	3/4"	HV	EC	EC	NU	MAG	HV	EC	EC	NU	WP	
PRV-3	ROOF EXHAUST FAN	ROOF	5HP	208	3	N	37, 39, 41	35	3	3 + G	8	3/4"	HV	EC	EC	NU	MAG	HV	EC	EC	NU	WP	
PRV-4	ROOF EXHAUST FAN	ROOF	5HP	208	3	N	38, 40, 42	35	3	3 + G	8	3/4"	HV	EC	EC	NU	MAG	HV	EC	EC	NU	WP	
PRV-5	ROOF EXHAUST FAN	ROOF	3/4HP	208	3	N	43, 45, 47	15	3	3 + G	12	1/2"	HV	EC	EC	NU	MAG	HV	EC	EC	NU	WP	

ABBREVIATIONS:

- 2SP = 2 SPEED MAGNETIC STARTER
- BOL = BUILT-IN OVERLOAD
- CS = COMBINATION STARTER
- EC = ELECTRICAL CONTRACTOR
- ECP = ELEVATOR CONTROL PANEL
- EV = ELEVATOR CONTRACTOR
- FD = FUSIBLE DISCONNECT
- HV = HVAC CONTRACTOR
- IU = IN UNIT
- LMRS = LOCKABLE MOTOR RATED SWITCH
- MAN = MANUAL STARTER
- MAG = MAGNETIC STARTER
- MC = MECHANICAL CONTRACTOR
- MCC = MOTOR CONTROL CENTER
- HOA = HAND-OFF-AUTO
- MCA = MINIMUM CIRCUIT AMPS
- MFR = MANUFACTURER
- NFD = NON-FUSIBLE DISCONNECT
- NU = NEAR UNIT
- OU = ON UNIT
- PC = PLUMBING CONTRACTOR
- PL = PILOT LIGHT
- RVS = REDUCED VOLTAGE STARTER
- TCP = TEMPERATURE CONTROL PANEL
- T-STAT = THERMOSTAT
- VFD = VARIABLE FREQUENCY DRIVE
- WP = WEATHERPROOF
- STST = START/STOP

NOTES:

1. WIRE LIMIT SWITCHES AND SAFETIES.
2. COORDINATE LOCATION WITH OWNER PRIOR TO INSTALLATION.

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PROJECT

PROPOSED BUILDING FOR:

VILLAGE OF PLEASANT PRAIRIE

DEPARTMENT OF PUBLIC WORKS
VILLAGE OF PLEASANT PRAIRIE:

CONSTRUCTION MANAGER

RILEY CONSTRUCTION

REVISIONS

NO.	DESCRIPTION	DATE

INFORMATION

PROJECT ARCHITECT	SPS
PROJECT MANAGER	MAM
PROJECT NUMBER	RCC-15-785
ISSUED FOR	CONSTRUCTION (BP #3)
DATE	MARCH 18, 2016

SHEET

ELECTRICAL SCHEDULES

E301

C15126
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Statistics

Description	Symbol	Avg	Max	Min	Max / Min	Avg / Min	Avg / Max
Calc Zone #3	+	0.6 fc	21.9 fc	0.0 fc	N/A	N/A	0.0:1
EAST SIDEWALK	+	2.2 fc	4.0 fc	0.8 fc	5.0:1	2.8:1	0.6:1
STAIR LANDING	+	23.0 fc	25.1 fc	21.4 fc	1.2:1	1.1:1	0.9:1
STAIR TREAD	+	14.2 fc	17.0 fc	10.2 fc	1.7:1	1.4:1	0.8:1

EXISTING PRANGE CENTER

PROPOSED BUILDING

POLE-1 POLE-2 POLE-3 POLE-4 POLE-5 POLE-6 POLE-7 POLE-8 POLE-9 POLE-10 POLE-11 POLE-12 POLE-13 POLE-14 POLE-15 POLE-16 POLE-17 POLE-18

OA-1 OA-2 OA-3 OA-4 OA-5 OA-6 OA-7 OA-8 OA-9 OA-10 OA-11 OA-12 OA-13 OA-14 OA-15 OA-16 OA-17 OA-18 OA-19 OA-20 OA-21 OA-22 OA-23 OA-24 OA-25 OA-26 OA-27 OA-28 OA-29 OA-30 OA-31

OB-1 OB-2 OB-3 OB-4 OB-5 OB-6 OB-7 OB-8 OB-9

OD-1 OD-2 OD-3 OD-4 OD-5 OD-6 OD-7 OD-8 OD-9 OD-10 OD-11 OD-12

DEPARTMENT OF PUBLIC WORKS
VILLAGE OF PLEASANT PRAIRIE
SITE PLAN

Date
3/9/2016
Scale
1" = 30'-0"
Drawing No.

Job Number
C15126

WPLED4T50N

Ultra high output, high efficiency 50 Watt LED wallpacks. Patent Pending airflow technology ensures long LED and driver lifespan. 5 Year Warranty.

Color: Bronze

Weight: 34.8 lbs

Project:	Type: OA
Prepared By:	Date:

Driver Info		LED Info	
Type:	Constant Current	Watts:	50W
120V:	0.46A	Color Temp:	4000K (Neutral)
208V:	0.27A	Color Accuracy:	82 CRI
240V:	0.23A	L70 Lifespan:	100000
277V:	0.20A	Lumens:	4,586
Input Watts:	52W	Efficacy:	88 LPW
Efficiency:	96%		

Technical Specifications

Listings

UL Listing:

Suitable for wet locations as a downlight.

IESNA LM-79 & IESNA LM-80 Testing:

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

Dark Sky Approved:

The International Dark Sky Association has approved this product as a full cutoff, fully shielded luminaire.

DLC Listed:

This product is on the Design Lights Consortium (DLC) Qualified Products List and is eligible for rebates from DLC Member Utilities.
DLC Product Code: P00001796

LED Characteristics

Lifespan:

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

LEDs:

Multi-chip, high-output, long-life LEDs

Color Consistency:

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

Color Stability:

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

Color Uniformity:

RAB's range of CCT (Correlated Color Temperature) follows the guidelines of the American National Standard for Specifications for the Chromaticity of Solid State Lighting (SSL) Products, ANSI C78.377-2011.

Construction

IES Classification:

The Type IV distribution (also known as a Forward Throw) is especially suited for mounting on the sides of buildings and walls, and for illuminating the perimeter of parking areas. It produces a semiCircular distribution with essentially the same candlepower at lateral angles from 90° to 270°.

IP Rating:

Ingress Protection rating of IP66 for dust and water.

Ambient Temperature:

Suitable for use in 40°C ambient temperatures.

Cold Weather Starting:

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

Thermal Management:

Superior patent pending thermal management design with external Air-Flow fins provides maximum operational life, even in high ambient temperature environments.

Housing:

Die cast aluminum housing, lens frame and mounting arm.

Mounting:

Heavy-duty mounting arm with "O" ring seal & stainless steel screws.

Reflector:

Specular vacuum-metallized polycarbonate

Gaskets:

High temperature silicone gaskets

Finish:

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

Green Technology:

Mercury and UV free, and RoHS compliant. Polyester powder coat finish formulated without the use of VOC or toxic heavy metals.

Electrical

Driver:

Constant Current, Class 2, 1400mA, 100-277V, 50-60Hz, 0.8A, Power Factor 99%

THD:

6.9% at 120V, 7.9% at 277V

Surge Protection:

6kV surge suppression protection tested in accordance with IEEE/ANSI C62.41.2.

Other

Equivalency:

WPLED™ 50W replaces 200W metal halide

California Title 24:

WPLED50 with available photocell option complies with 2013 California Title 24 building and electrical codes as a commercial outdoor pole-mounted fixture ≤ 75 Watts. Add /PCT to include a photocell.

Patents:

The WPLED™ design is protected by patents pending in the U.S., Canada, China, Taiwan and Mexico.

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Technical Specifications (continued)

Other

Warranty:

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

Country of Origin:

Designed by RAB in New Jersey and assembled in the USA by RAB's IBEW Local 3 workers.

Buy American Act Compliant:

This product is a COTS item manufactured in the United States, and is compliant with the Buy American Act.

Recovery Act (ARRA) Compliant:

This product complies with the 52.225-21 "Required Use of American Iron, Steel, and Manufactured Goods-- Buy American Act-- Construction Materials (October 2010).

Trade Agreements Act Compliant:

This product is a COTS item manufactured in the United States, and is compliant with the Trade Agreements Act.

GSA Schedule:

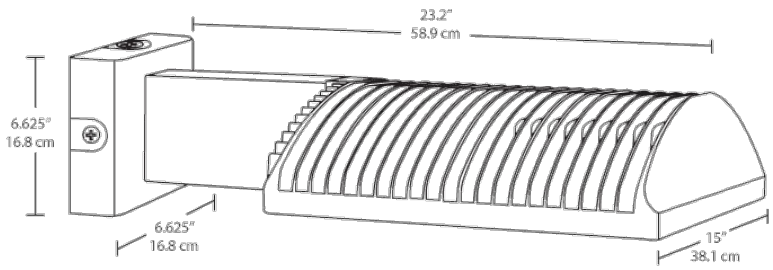
Suitable in accordance with FAR Subpart 25.4.

Optical

BUG Rating:

B0 U0 G1

Dimensions



Features

- High output, high efficiency LED
- Maintains 70% of initial lumens at 100,000 hours
- Weatherproof high temperature silicone gaskets
- Superior heat sinking with die cast aluminum housing and external fins
- 100 up to 277 Volts
- 5-year warranty

Ordering Matrix

Family	Distribution	Watts	Color Temp	Mount	Finish	Voltage	Photocell	Dimming	Sensor	Bi-Level
WPLED										
	2T = Type II **3T** = Type III **4T** = Type IV	**50** = 50W	= 5000K (Cool) **Y** = 3000K (Warm) **N** = 4000K (Neutral)	= Standard **FX** = Flat Wall	= Bronze **W** = White	= 120-277V **/480** = 480V	= No Photocell **/PC** = 120V Button **/PC2** = 277 Button **/PCS** = 120V Swivel **/PCS2** = 277V Swivel **/PCT** = 120-277V Twistlock **/PCS4** = 480V Swivel **/PCT4** = 480V Twistlock	= No Dimming **/D10** = Dimmable	**/WS2** = Multi-Level Motion Sensor (Only available for 120-277V with /D10 for 50W)	= No Bi-Level **/BL** = Bi-Level

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WPLED4T78N

LED 78W Wallpacks. 3 cutoff options. Patent Pending thermal management system. 100,000 hour L70 lifespan. 5 Year Warranty.

Color: Bronze

Weight: 34.8 lbs

Project:	Type: OB
Prepared By:	Date:

Driver Info		LED Info	
Type:	Constant Current	Watts:	78W
120V:	0.66A	Color Temp:	4000K (Neutral)
208V:	0.41A	Color Accuracy:	82 CRI
240V:	0.35A	L70 Lifespan:	100000
277V:	0.30A	Lumens:	6,673
Input Watts:	79W	Efficacy:	84 LPW
Efficiency:	98%		

Technical Specifications

Listings

UL Listing:

Suitable for wet locations as a downlight.

IESNA LM-79 & IESNA LM-80 Testing:

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

Dark Sky Approved:

The International Dark Sky Association has approved this product as a full cutoff, fully shielded luminaire.

DLC Listed:

This product is on the Design Lights Consortium (DLC) Qualified Products List and is eligible for rebates from DLC Member Utilities.
DLC Product Code: P000017AN

Optical

Lumen Maintenance:

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

Specification Grade Optics:

The Type IV distribution (also known as a Forward Throw) is especially suited for mounting on the sides of buildings and walls, and for illuminating the perimeter of parking areas. It produces a semiCircular distribution with essentially the same candlepower at lateral angles from 90° to 270°.

Replacement:

The WPLED78 replaces 400W Metal Halide Wallpacks.

BUG Rating:

B1 U0 G2

Construction

IP Rating:

Ingress Protection rating of IP66 for dust and water.

Ambient Temperature:

Suitable for use in 40°C ambient temperatures.

Cold Weather Starting:

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

Thermal Management:

Superior heat sinking with external Air-Flow fins.

Housing:

Die cast aluminum housing, lens frame and mounting arm.

Reflector:

Specular vacuum-metallized polycarbonate

Gaskets:

High temperature silicone gaskets.

Finish:

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

Green Technology:

Mercury and UV free.

For use on LEED Buildings:

IDA Dark Sky Approval means that this fixture can be used to achieve LEED Credits for Light Pollution Reduction.

LED Characteristics

LEDs:

Six (6) multi-chip, 13W, high-output, long-life LEDs.

Color Consistency:

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

Color Stability:

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

Color Temperature (Nominal CCT):

4100K.

Color Uniformity:

RAB's range of CCT (Correlated color temperature) follows the guidelines of the American National Standard for Specifications for the Chromaticity of Solid State Lighting (SSL) Products, ANSI C78.377-2015.

Electrical

Driver:

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

THD:

4.4% at 120V, 12.8% at 277V

Surge Protection:

6kV

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Technical Specifications (continued)

Other

California Title 24:

See WPLED4T78/BL for a 2013 California Title 24 compliant product. Any additional component requirements will be listed in the Title 24 section under technical specifications on the product page.

Warranty:

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

Patents:

The WPLED design is protected by patents pending in the U.S., Canada, China, Taiwan and Mexico.

Country of Origin:

Designed by RAB in New Jersey and assembled in the USA by RAB's IBEW Local 3 workers.

Buy American Act Compliant:

This product is a COTS item manufactured in the United States, and is compliant with the Buy American Act.

Recovery Act (ARRA) Compliant:

This product complies with the 52.225-21 "Required Use of American Iron, Steel, and Manufactured Goods-- Buy American Act-- Construction Materials (October 2010).

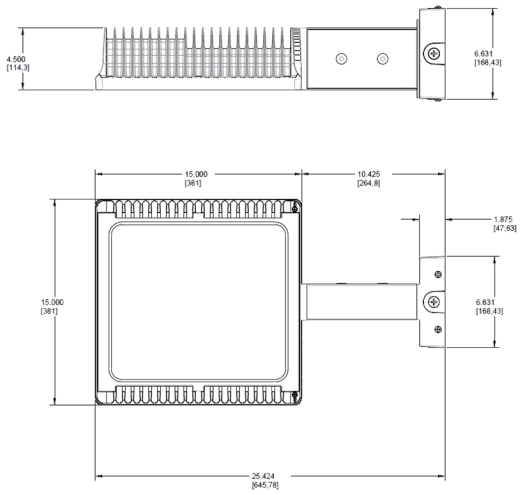
Trade Agreements Act Compliant:

This product is a COTS item manufactured in the United States, and is compliant with the Trade Agreements Act.

GSA Schedule:

Suitable in accordance with FAR Subpart 25.4.

Dimensions



Features

- High performance LED light engine
- Maintains 70% of initial lumens at 100,000 hours
- Weatherproof high temperature silicone gaskets
- Superior heat sinking with die cast aluminum housing and external fins
- Replaces 400W MH
- 100 up to 277 Volts
- 5-year warranty

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WPLED4T78N

Ordering Matrix

Family	Distribution	Watts	Color Temp	Mount	Finish	Voltage	Photocell	Dimming	Sensor	Bi-Level
WPLED										
	2T = Type II **3T** = Type III **4T** = Type IV	**78** = 78W	= 5000K (Cool) **Y** = 3000K (Warm) **N** = 4000K (Neutral)	= Standard **FX** = Flat Wall	= Bronze **W** = White	= 120-277V **/480** = 480V	= No Photocell **/PC** = 120V Button **/PC2** = 277 Button **/PCS** = 120V Swivel **/PCS2** = 277V Swivel **/PCS4** = 480V Swivel	= No Dimming **/D10** = Dimmable	**/WS2** = Multi-Level Motion Sensor (Only available for 120-277V with /D10 for 50W)	= No Bi-Level **/BL** = Bi-Level

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WPLED2T50N

Ultra high output, high efficiency 50 Watt LED wallpacks. Patent Pending airflow technology ensures long LED and driver lifespan. 5 Year Warranty.

Color: Bronze

Weight: 34.8 lbs

Project:	Type: OC
Prepared By:	Date:

Driver Info		LED Info	
Type:	Constant Current	Watts:	50W
120V:	0.46A	Color Temp:	4000K (Neutral)
208V:	0.27A	Color Accuracy:	82 CRI
240V:	0.23A	L70 Lifespan:	100000
277V:	0.20A	Lumens:	4,386
Input Watts:	52W	Efficacy:	85 LPW
Efficiency:	97%		

Technical Specifications

Listings

UL Listing:

Suitable for wet locations as a downlight.

IESNA LM-79 & IESNA LM-80 Testing:

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

Dark Sky Approved:

The International Dark Sky Association has approved this product as a full cutoff, fully shielded luminaire.

DLC Listed:

This product is on the Design Lights Consortium (DLC) Qualified Products List and is eligible for rebates from DLC Member Utilities.
DLC Product Code: P00001790

LED Characteristics

Lifespan:

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

LEDs:

Multi-chip, high-output, long-life LEDs

Color Consistency:

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

Color Stability:

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

Color Uniformity:

RAB's range of CCT (Correlated Color Temperature) follows the guidelines of the American National Standard for Specifications for the Chromaticity of Solid State Lighting (SSL) Products, ANSI C78.377-2011.

Construction

IES Classification:

The Type II distribution is ideal for wide walkways, on ramps and entrance roadways, bike paths and other long and narrow lighting applications. This type is meant for lighting larger areas and usually is located near the roadside. This type of lighting is commonly found on smaller side streets or jogging paths.

IP Rating:

Ingress Protection rating of IP66 for dust and water.

Ambient Temperature:

Suitable for use in 40°C ambient temperatures.

Cold Weather Starting:

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

Thermal Management:

Superior patent pending thermal management design with external Air-Flow fins provides maximum operational life, even in high ambient temperature environments.

Housing:

Die cast aluminum housing, lens frame and mounting arm.

Mounting:

Heavy-duty mounting arm with "O" ring seal & stainless steel screws.

Reflector:

Specular vacuum-metallized polycarbonate

Gaskets:

High temperature silicone gaskets

Finish:

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

Green Technology:

Mercury and UV free, and RoHS compliant. Polyester powder coat finish formulated without the use of VOC or toxic heavy metals.

Electrical

Driver:

Constant Current, Class 2, 1400mA, 100-277V, 50-60Hz, 0.8A, Power Factor 99%

THD:

7.0% at 120V, 7.8% at 277V

Surge Protection:

6kV surge suppression protection tested in accordance with IEEE/ANSI C62.41.2.

Other

Equivalency:

WPLED™ 50W replaces 200W metal halide

California Title 24:

WPLED50 with available photocell option complies with 2013 California Title 24 building and electrical codes as a commercial outdoor pole-mounted fixture ≤ 75 Watts. Add /PCT to include a photocell.

Patents:

The WPLED™ design is protected by patents pending in the U.S., Canada, China, Taiwan and Mexico.

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Technical Specifications (continued)

Other

Warranty:

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

Country of Origin:

Designed by RAB in New Jersey and assembled in the USA by RAB's IBEW Local 3 workers.

Buy American Act Compliant:

This product is a COTS item manufactured in the United States, and is compliant with the Buy American Act.

Recovery Act (ARRA) Compliant:

This product complies with the 52.225-21 "Required Use of American Iron, Steel, and Manufactured Goods-- Buy American Act-- Construction Materials (October 2010).

Trade Agreements Act Compliant:

This product is a COTS item manufactured in the United States, and is compliant with the Trade Agreements Act.

GSA Schedule:

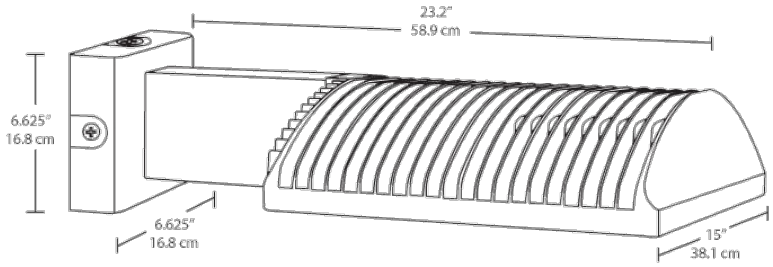
Suitable in accordance with FAR Subpart 25.4.

Optical

BUG Rating:

B1 U0 G1

Dimensions



Features

- High output, high efficiency LED
- Maintains 70% of initial lumens at 100,000 hours
- Weatherproof high temperature silicone gaskets
- Superior heat sinking with die cast aluminum housing and external fins
- 100 up to 277 Volts
- 5-year warranty

Ordering Matrix

Family	Distribution	Watts	Color Temp	Mount	Finish	Voltage	Photocell	Dimming	Sensor	Bi-Level
WPLED										
	2T = Type II **3T** = Type III **4T** = Type IV	**50** = 50W	= 5000K (Cool) **Y** = 3000K (Warm) **N** = 4000K (Neutral)	= Standard **FX** = Flat Wall	= Bronze **W** = White	= 120-277V **/480** = 480V	= No Photocell **/PC** = 120V Button **/PC2** = 277 Button **/PCS** = 120V Swivel **/PCS2** = 277V Swivel **/PCT** = 120-277V Twistlock **/PCS4** = 480V Swivel **/PCT4** = 480V Twistlock	= No Dimming **/D10** = Dimmable	**/WS2** = Multi-Level Motion Sensor (Only available for 120-277V with /D10 for 50W)	= No Bi-Level **/BL** = Bi-Level

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WPLED4T150N

Ultra high output, high efficiency 150 Watt LED wallpacks. Patent Pending airflow technology ensures long LED and driver lifespan. 5 Year Warranty.

Color: Bronze Weight: 34.8 lbs

Project:	Type: OD
Prepared By:	Date:

Driver Info		LED Info	
Type:	Constant Current	Watts:	150W
120V:	1.31A	Color Temp:	4000K (Neutral)
208V:	0.80A	Color Accuracy:	82 CRI
240V:	0.69A	L70 Lifespan:	100000
277V:	0.60A	Lumens:	11,786
Input Watts:	155W	Efficacy:	76 LPW
Efficiency:	97%		

Technical Specifications

Listings

UL Listing:

Suitable for wet locations.

IESNA LM-79 & LM-80 Testing:

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

Dark Sky Approved:

The International Dark Sky Association has approved this product as a full cutoff, fully shielded luminaire.

DLC Listed:

This product is on the Design Lights Consortium (DLC) Qualified Products List and is eligible for rebates from DLC Member Utilities.
DLC Product Code: P0000174Q

LED Characteristics

Lifespan:

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

LEDs:

Multi-chip, high-output, long-life LEDs

Color Consistency:

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

Color Stability:

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

Color Uniformity:

RAB's range of CCT (Correlated Color Temperature) follows the guidelines of the American National Standard for Specifications for the Chromaticity of Solid State Lighting (SSL) Products, ANSI C78.377-2011.

Construction

IES Classification:

The Type IV distribution (also known as a Forward Throw) is especially suited for mounting on the sides of buildings and walls, and for illuminating the perimeter of parking areas. It produces a semiCircular distribution with essentially the same candlepower at lateral angles from 90° to 270°.

IP Rating:

Ingress Protection rating of IP66 for dust and water.

Ambient Temperature:

Suitable for use in 40°C (104°F) ambient temperatures.

Cold Weather Starting:

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

Thermal Management:

Superior thermal management with external Air-Flow fins.

Housing:

Die-cast aluminum housing, lens frame and mounting arm

Mounting:

Heavy-duty mounting arm with "O" ring seal & stainless steel screws

Reflector:

Specular vacuum-metallized polycarbonate

Gaskets:

High-temperature silicone gaskets

Finish:

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

Green Technology:

Mercury and UV free, and RoHS compliant. Polyester powder coat finish formulated without the use of VOC or toxic heavy metals.

For use on LEED Buildings:

IDA Dark Sky Approval means that this fixture can be used to achieve LEED Credits for Light Pollution Reduction.

Electrical

Drivers:

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

THD:

5.9% at 120V, 11.1% at 277V

Other

California Title 24:

See WPLED4T150/D10 or WPLED4T150/BL for a 2013 California Title 24 compliant product. Any additional component requirements will be listed in the Title 24 section under technical specifications on the product page.

Warranty:

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

Patents:

The design of WPLED150 is protected by patents pending in US, Canada, China, Taiwan and Mexico.

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Technical Specifications (continued)

Other

Country of Origin:

Designed by RAB in New Jersey and assembled in the USA by RAB's IBEW Local 3 workers.

Buy American Act Compliant:

This product is a COTS item manufactured in the United States, and is compliant with the Buy American Act.

Recovery Act (ARRA) Compliant:

This product complies with the 52.225-21 "Required Use of American Iron, Steel, and Manufactured Goods-- Buy American Act-- Construction Materials (October 2010).

Trade Agreements Act Compliant:

This product is a COTS item manufactured in the United States, and is compliant with the Trade Agreements Act.

GSA Schedule:

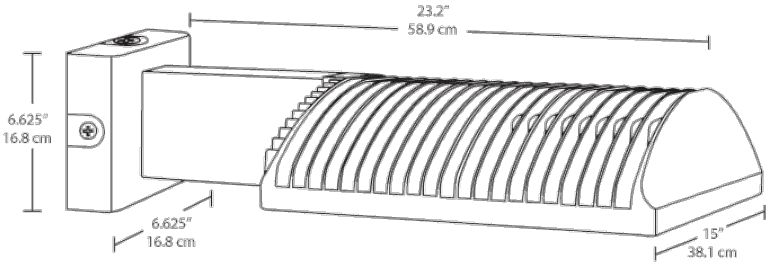
Suitable in accordance with FAR Subpart 25.4.

Optical

BUG Rating:

B1 U0 G2

Dimensions



Features

- High output, high efficiency LED
- Maintains 70% of initial lumens at 100,000 hours
- Weatherproof high temperature silicone gaskets
- Superior heat sinking with die cast aluminum housing and external fins
- 100 up to 277 Volts
- 5-year warranty

Ordering Matrix

Family	Distribution	Watts	Color Temp	Mount	Finish	Photocell	Dimming	Sensor	Bi-Level
WPLED									
	2T = Type II **3T** = Type III **4T** = Type IV	**150** = 150W	= 5000K (Cool) **Y** = 3000K (Warm) **N** = 4000K (Neutral)	= Standard **FX** = Flat Wall	= Bronze **W** = White	= No Photocell **/PC** = 120V Button **/PC2** = 277 Button **/PCS** = 120V Swivel **/PCS2** = 277V Swivel **/PCT** = 120-277V Twistlock	= No Dimming **/D10** = Dimmable	**/WS4** = Multi-Level Motion Sensor (Only available for 120-277V with /D10 for 150W)	= No Bi-Level **/BL** = Bi-Level

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WPLED2T150N

Ultra high output, high efficiency 150 Watt LED wallpacks. Patent Pending airflow technology ensures long LED and driver lifespan. 5 Year Warranty.

Color: Bronze Weight: 34.8 lbs

Project:	Type: OE
Prepared By:	Date:

Driver Info		LED Info	
Type:	Constant Current	Watts:	150W
120V:	1.31A	Color Temp:	4000K (Neutral)
208V:	0.80A	Color Accuracy:	82 CRI
240V:	0.69A	L70 Lifespan:	100000
277V:	0.60A	Lumens:	11,847
Input Watts:	154W	Efficacy:	77 LPW
Efficiency:	97%		

Technical Specifications

Listings

UL Listing:

Suitable for wet locations.

IESNA LM-79 & LM-80 Testing:

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

Dark Sky Approved:

The International Dark Sky Association has approved this product as a full cutoff, fully shielded luminaire.

DLC Listed:

This product is on the Design Lights Consortium (DLC) Qualified Products List and is eligible for rebates from DLC Member Utilities.
DLC Product Code: P0000174E

LED Characteristics

Lifespan:

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

LEDs:

Multi-chip, high-output, long-life LEDs

Color Consistency:

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

Color Stability:

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

Color Uniformity:

RAB's range of CCT (Correlated Color Temperature) follows the guidelines of the American National Standard for Specifications for the Chromaticity of Solid State Lighting (SSL) Products, ANSI C78.377-2011.

Construction

IES Classification:

The Type II distribution is ideal for wide walkways, on ramps and entrance roadways, bike paths and other long and narrow lighting applications. This type is meant for lighting larger areas and usually is located near the roadside. This type of lighting is commonly found on smaller side streets or jogging paths.

IP Rating:

Ingress Protection rating of IP66 for dust and water.

Ambient Temperature:

Suitable for use in 40°C (104°F) ambient temperatures.

Cold Weather Starting:

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

Thermal Management:

Superior thermal management with external Air-Flow fins.

Housing:

Die-cast aluminum housing, lens frame and mounting arm

Mounting:

Heavy-duty mounting arm with "O" ring seal & stainless steel screws

Reflector:

Specular vacuum-metallized polycarbonate

Gaskets:

High-temperature silicone gaskets

Finish:

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

Green Technology:

Mercury and UV free, and RoHS compliant. Polyester powder coat finish formulated without the use of VOC or toxic heavy metals.

For use on LEED Buildings:

IDA Dark Sky Approval means that this fixture can be used to achieve LEED Credits for Light Pollution Reduction.

Electrical

Drivers:

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

THD:

5.9% at 120V, 11.2% at 277V

Other

California Title 24:

See WPLED2T150/D10 or WPLED2T150/BL for a 2013 California Title 24 compliant product. Any additional component requirements will be listed in the Title 24 section under technical specifications on the product page.

Warranty:

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

Patents:

The design of WPLED150 is protected by patents pending in US, Canada, China, Taiwan and Mexico.

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Technical Specifications (continued)

Other

Country of Origin:

Designed by RAB in New Jersey and assembled in the USA by RAB's IBEW Local 3 workers.

Buy American Act Compliant:

This product is a COTS item manufactured in the United States, and is compliant with the Buy American Act.

Recovery Act (ARRA) Compliant:

This product complies with the 52.225-21 "Required Use of American Iron, Steel, and Manufactured Goods-- Buy American Act-- Construction Materials (October 2010).

Trade Agreements Act Compliant:

This product is a COTS item manufactured in the United States, and is compliant with the Trade Agreements Act.

GSA Schedule:

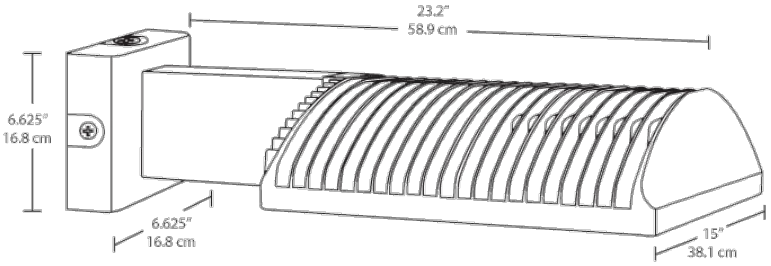
Suitable in accordance with FAR Subpart 25.4.

Optical

BUG Rating:

B2 U0 G2

Dimensions



Features

- High output, high efficiency LED
- Maintains 70% of initial lumens at 100,000 hours
- Weatherproof high temperature silicone gaskets
- Superior heat sinking with die cast aluminum housing and external fins
- 100 up to 277 Volts
- 5-year warranty

Ordering Matrix

Family	Distribution	Watts	Color Temp	Mount	Finish	Photocell	Dimming	Sensor	Bi-Level
WPLED									
	2T = Type II **3T** = Type III **4T** = Type IV	**150** = 150W	= 5000K (Cool) **Y** = 3000K (Warm) **N** = 4000K (Neutral)	= Standard **FX** = Flat Wall	= Bronze **W** = White	= No Photocell **/PC** = 120V Button **/PC2** = 277 Button **/PCS** = 120V Swivel **/PCS2** = 277V Swivel **/PCT** = 120-277V Twistlock	= No Dimming **/D10** = Dimmable	**/WS4** = Multi-Level Motion Sensor (Only available for 120-277V with /D10 for 150W)	= No Bi-Level **/BL** = Bi-Level

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LITHONIA LIGHTING®

FEATURES & SPECIFICATIONS

INTENDED USE — Ideal one-for-one replacement of conventional HID and fluorescent high bay systems. Applications include warehousing, manufacturing, gymnasiums, and other large indoor spaces with mounting heights up to 60'. **Certain airborne contaminants can diminish integrity of acrylic.** Click here for Acrylic Environmental Compatibility table for suitable uses.

CONSTRUCTION — Lightweight aluminum heat sink designed to perform in ambient temperatures up to 55 °C with lumen droop less than fluorescent due to precision thermal engineering for maximum naturally convective cooling. Structural elements such as the channel and end caps are fabricated from steel for maximum rigidity. Hard-tooled reflectors, utilizing reflective Alanod® MIRO-5® aluminum, for precise and repeatable photometry. Semi-diffuse lens optional to provide glare control – may be inverted for gloss or matte side down. Wireguard attachment points provided.

OPTICS — Narrow and wide distributions available to meet both horizontal and vertical light level requirements. Reflectors feature precision-formed optics utilizing reflective Alanod® MIRO-5® aluminum to achieve narrow distribution and white polyester powder coat to achieve wide distribution. Semi-diffuse lens optional to provide glare control and LED protection.

ELECTRICAL — L95 at 60,000 hours (only 5% loss) with a predicted life of more than 100,000 hours. Utilizes a 90°C case temperature driver for maximum life at high temperatures. 0.90 power factor and 10kA/10kV level of surge protection is standard. Available as 120-277V or 347-480V input.

0-10V dimming standard for a dimming range of 100% to 10%; dimming source current is 150 microA.

WIRELESS NETWORKING — XPoint™ Wireless technology creates a mesh network to ensure communication between fixtures, sensors and wall stations facility-wide. This option provides superior lighting management capabilities including granular control, configuration and custom grouping for increased energy savings.

INSTALLATION — Suitable for suspension by chain, cable, surface-mounting bracket, hook monopoint or single (pendant) monopoint. Surface mounting not recommended without optional surface mounting bracket. To maintain high ambient listing, fixture should be mounted at a minimum plenum height of 24".

LISTINGS — CSA certified to US and Canadian safety standards. Damp location listed. Suitable for ambient temperatures from -40°F (-40°C) to 131°F (55°C) when suspended 24" from ceiling. Patent pending. DesignLights Consortium® (DLC) qualified product. Not all versions of this product may be DLC qualified. Please check the DLC Qualified Products List at www.designlights.org/QPL to confirm which versions are qualified.

WARRANTY — 5-year limited warranty. Complete warranty terms located at www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx

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

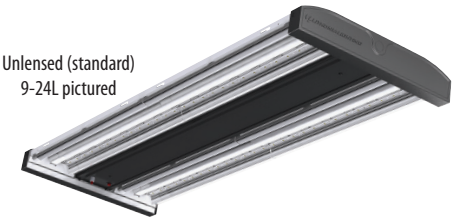
Catalog Number	
Notes	
Type	

T-BEAM® LED

LED High Bay

IBL

Patent Pending



Unlensed (standard)
9-24L pictured

Lensed (optional)
36-48L pictured

ORDERING INFORMATION

Lead times will vary depending on options selected. Consult with your sales representative.

Example: IBL 18L WD LP740 DLC

IBL											
Series	**Lumens**				**Distribution**		**Lens**		**Voltage**		**Color temperature**	
IBL	9L	9,000 lumens	24L	24,000 lumens	WD	Wide	(blank)	No shielding	(blank)	MVOLT; 120-277V	LP735	70 CRI, 3500K CCT
	12L	12,000 lumens	36L	36,000 lumens[1]	ND	Narrow	SD125	Semi-diffuse acrylic	HVOLT	347V-480V	LP740 DLC	70 CRI, 4000K CCT
	18L	18,000 lumens	48L	48,000 lumens[1]					120	120V	LP750 DLC	70 CRI, 5000K CCT
									277	277V	LP835	80 CRI, 3500K CCT
											LP840	80CRI, 4000K CCT
											LP850	80 CRI, 5000K CCT

Options

GLR	Internal fast-blow fuse[2,3]
OUTCTR	Wiring leads pulled through back center of fixture
OCS	RELOC® OnePass® 5' installed[2]
IMP	Integrated modular plug[4,5]
RRL	RELOC®-ready luminaire. See page 5 for ordering information[6]
I2412	IOTA emergency LED battery pack for 32°F to 104°F (0°C to 40°C) ambient[2,7]
WGX	Standard wire guard, installed[8]

Cord sets:[9]

CS1W	Straight plug, 120V[10]
CS3W	Twist-lock, 120V[10]
CS7W	Straight plug, 277V[10]
CS11W	Twist-lock, 277V[10]
CS25W	Twist-lock, 347V[10]
CS97W	Twist-lock, 480V[10]
CS93W	600 SO white cord, no plug (no voltage required)

Controls:

LCOZU	Aisle motion sensor, pre-wired[2,11,12]
LCHOSZU	Aisle motion sensor, pre-wired; programmable dimming[2,11,12]
LCPZU	Aisle motion sensor with photocell; pre wired[2,11,12]
LAOZU	360° motion sensor, pre-wired[2,11,12]
LAHOSZU	360° motion sensor, pre-wired; programmable dimming[2,11,12]
LAPZU	360° motion sensor with photocell, pre-wired[2,11,12]
MSE360	360° motion sensor, embedded, high bay[2,12,13]
MSE360LB	360° motion sensor, embedded, low bay[2,12,13]
MSI6XADL DSCXADL	360° Xpoint wireless motion sensor with photocell[2,11,12]
LAMOSZU	360 motion sensor, dimming and switching photocell, pre-wired (T24 compliant)[2,11,12]
LCMOSZU	Aisle motion sensor, dimming and switching photocell, pre-wired (T24 compliant)[2,11,12]
nPP16D	nLight® switching/dimming module[2,12,14]
nMSI	nLight®, aisle motion sensor, pre-wired[2,12,15]
nMSI360	nLight®, 360° motion sensor, pre-wired[2,12,16]
nMSID	nLight®, aisle motion sensor w/dimming, pre-wired[2,12,17]
nMSI360D	nLight®, 360° motion sensor w/dimming, pre-wired[2,11,18]
XPW	XPoint™ wireless 0-10V relay[2,19]

Finish

(blank)	Gloss white with textured dark gray accents
DWH	Gloss white

See footnotes on page 2.

Accessories: *Order as separate catalog number.*

Mounting:

IBAC120 M20	Aircraft cable 10' with hook (one pair)
IBAC240 M20	Aircraft cable 20' with hook (one pair)
IBHMP	Hook monopoint
ZACVH	Aircraft 10' V hanger (one pair) [20]
IBLPMP	Pendant monopoint splice box, includes side covers for use with 9L-24L
IBLPMPHB	Pendant monopoint splice box, includes side covers (3/4" hub)for use with 9L-24L
IBLPMP48	Pendant monopoint splice box, includes side covers for use with 36L and 48L
IBLPMPHB48	Pendant monopoint splice box, includes side covers (3/4" hub) for use with 36L and 48L
HC36	Hanger chain, 36" (one pair) [20]
THUN	Tong hanger bracket (order 2 per fixture) [20,21]

Cord sets and sensors for IMP option:

CS1WIMP	Straight plug, 120V [8,9,22]
CS3WIMP	Twist-lock, 120V [8,9,22]
CS7WIMP	Straight plug, 277V [8,9,22]
CS11WIMP	Twist-lock, 277V [8,9,22]
CS25WIMP	Twist-lock 347V [8,9,22]
CS93WIMP	600V SO white cord, no plug (no voltage required) [8,22]
CS97WIMP	Twist-lock 480V [8,9,22]
MSIIMP	Aisle sensor [5,22]
MSI360IMP	360° sensor [5,22]

Field-installable door and lens assemblies:

DLIBL SD125	Semi-diffuse acrylic lens for use 9L - 24L
DLIBL48 SD125	Semi-diffuse acrylic lens for use with 36L and 48L

Wire guards:

WGIBL	Wire guard for use with 9L - 24L [8]
WGIBL48	Wire guard for use with 36L and 48L [8]

Notes

1 Fixtures more than 24" wide can interfere with the operation of some fire sprinkler systems. Verify specific installation requirements with local fire official and insurance carrier. Emergency battery packs are not available with 36L or 48L.
2 Specify voltage.
3 Not available with 347 voltage.
4 Must be factory-installed.
5 Must have "IMP" power cord to power fixture.
6 Requires Reloc RRL compatible cable to power fixture.
7 Must specify voltage. 120V or 277V only. Not available with cordset w/plug or OUTCTR option. Not available with 36L or 48L lumen packages.
8 SD125 lens option recommended when wire guard is used.
9 All cord sets are 18/3, 6', white.
10 Cord sets are voltage specific. Specify voltage. Other configurations available. Consult factory.
11 Other configurations available, see page four for additional options.
12 Sensors are rated for 14°F(-10°C) to 122°F(50°C) operation.
13 Not available with battery pack. Not field installable.
14 Available 120 or 277V only.
15 nMSI option utilizes a nPP16 and a nCMB 50, CAT5e cable also included. Available 120 or 277V only.
16 nMSI360 option utilizes a nPP16 and a nCMB 6, CAT5e cable also included. Available 120 or 277V only.
17 nMSID option utilizes a nPP16D and a nCMB 50, CAT5e cable also included. Available 120 or 277V only.
18 nMSI360D option utilizes a nPP16D and a nCMB 6, CAT5e cable also included. Available 120 or 277V only.
19 XPW option utilizes XPA CMRB0.
20 Not for use with 36L or 48L.
21 95°F (35°C) maximum ambient temperature when using the THUN.
22 Must have IMP option on fixture.

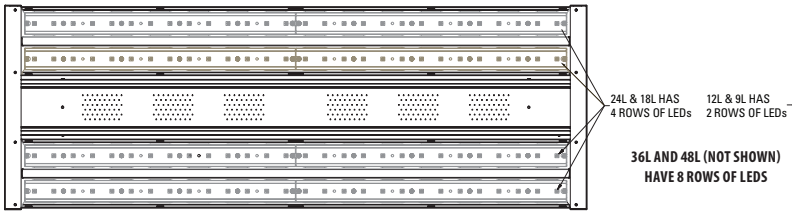
9L, 18L, and 36L lumen packages

12L, 24L, and 48L lumen packages

To create the 9L, 18L, and 36L lumen packages, the PCBA (LED board) is depopulated from the endcaps inward. The first LED is 5-1/2" from the end cap on those units, compared to 1-1/8" on the 12L, 24L, and 48L product.

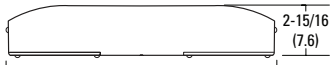
DIMENSIONS

Dimensions may vary with options or accessories.

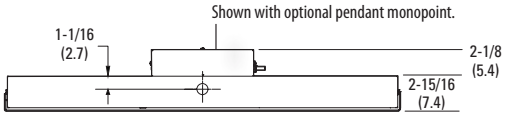


18L, and 24L utilize two drivers wired inboard/outboard
36L and 48L ***(not shown)*** utilize four drivers wired inboard/outboard

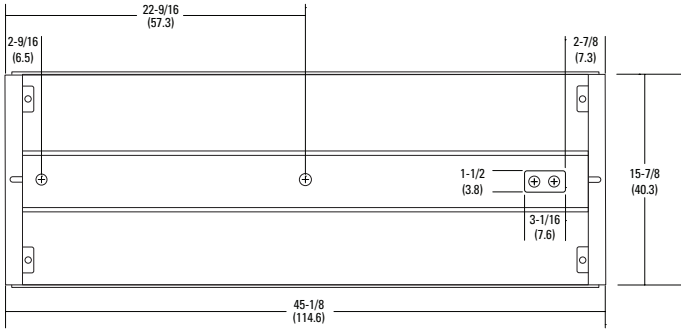
9L and 12L utilize one driver



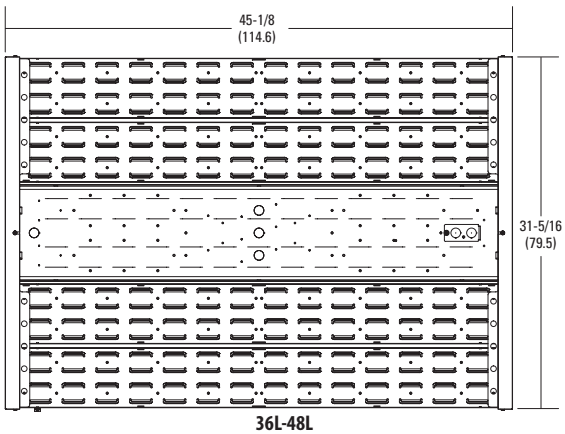
9L-24L



36L-48L



9L-24L



36L-48L

OPERATIONAL DATA

Lumen package	Ambient rating (120V - 277V)	Ambient rating (347V / 480V)	Distribution	Delivered lumens 5000K CCT @ 77°F (25°C) ambient temperature	Delivered lumens 4000K CCT @ 77°F (25°C) ambient temperature	Lumen multiplier @ 104°F (40°C) ambient temperature	Lumen multiplier @ 104°F (40°C) ambient w/ SD125 lens kit
9L	-40°F to 131°F (-40°C to 55°C)	-40°F to 104°F (-40°C to 40°C)	WD	10,308	10,263	0.98	0.846
			ND	10,070	10,027	0.98	0.924
12L	-40°F to 131°F (-40°C to 55°C)	-40°F to 104°F (-40°C to 40°C)	WD	12,906	12,850	0.98	0.846
			ND	12,609	12,554	0.98	0.924
18L	-40°F to 131°F (-40°C to 55°C)	-40°F to 104°F (-40°C to 40°C)	WD	20,355	20,267	0.98	0.846
			ND	19,886	19,800	0.98	0.924
24L	-40°F to 131°F (-40°C to 55°C)	-40°F to 104°F (-40°C to 40°C)	WD	25,328	25,218	0.98	0.846
			ND	24,744	24,637	0.98	0.924
36L	-40°F to 131°F (-40°C to 55°C)	-40°F to 104°F (-40°C to 40°C)	WD	40,368	40,193	0.98	0.846
			ND	43,084	42,898	0.98	0.924
48L	-40°F to 131°F (-40°C to 55°C)	-40°F to 104°F (-40°C to 40°C)	WD	50,134	49,916	0.98	0.846
			ND	53,508	53,276	0.98	0.924

CHARACTERISTICS

Lumen package	Wattage				Length	Width	Depth	Weight without Lens *(Lens kit adds approx. 7 lbs.)*	Comparable light source
	120V	277V	347V	480V	Dimensions are shown in inches (centimeters) unless otherwise noted.				
9L	100	95	98	97	45 (114.3)	15-3/4 (40.0)	3-1/4 (8.3)	12.5 lbs. (5.7 kg)	2-lamp T5HO
12L	125	122	126	125	45 (114.3)	15-3/4 (40.0)	3-1/4 (8.3)	12.5 lbs. (5.7 kg)	4-lamp T8, 250W HID
18L	197	192	198	197	45 (114.3)	15-3/4 (40.0)	3-1/4 (8.3)	17.5 lbs. (7.9 kg)	4-lamp T5HO, 6-lamp T8, 400W HID
24L	245	241	248	246	45 (114.3)	15-3/4 (40.0)	3-1/4 (8.3)	17.5 lbs. (7.9 kg)	6-lamp T5HO, 8-lamp T8
36L	394	388	400	396	45 (114.3)	31-1/3 (79.5)	3-1/4 (8.3)	35 lbs. (15.9 kg)	8-lamp T5HO, 750 HID
48L	489	471	485	480	45 (114.3)	31-1/3 (79.5)	3-1/4 (8.3)	35 lbs. (15.9 kg)	10-lamp T5HO,1000W HID

PROJECTED LUMEN MAINTENANCE

Operating hours	0	10,000	20,000	25,000	35,000	50,000	60,000	75,000	100,000
Lumen maintenance factor	1	0.98	0.98	0.97	0.96	0.96	0.95	0.94	0.93

LUMENS VS. AMBIENT TEMPERATURE

Ambient °C	Ambient °F	Lumen multiplier
0	32	1.02
5	41	1.015
10	50	1.01
15	59	1.008
20	68	1.005
25	77	1
30	86	0.995
35	95	0.985
40	104	0.98
45	113	0.97
50	122	0.965
55	131	0.96

PHOTOMETRICS

See www.lithonia.com.

LSXR - Fixture Mount Sensor (see www.sensorswitch.com for additional information)

- Four interchangeable lenses.
- Integrated mounting bracket drops lens down 3" from chase nipple.
- Single or dual relay versions — designed with robust protection from the harsh switching requirements of T5 and LED loads.
- Photocell and 0-10VDC dimming options.
- No PIR field calibration or sensitivity adjustments required.

LSXR configuration	Comparable CMRB sensor	Old style sensor nomenclature
For shortest lead times use one of the following LSXR configurations		
LCOZU	CMRB 50	MSI
LCHOSZU	CMRB 50 D	MSID
LCPZU	CMRB 50 P	MSIPED
LAOZU	CMRB 6	MSI360
LAHOSZU	CMRB 6 D	MSI360D
LAPZU	CMRB 6 P	MSI360PED

SELECTIONS BELOW WILL EXTEND ORDER LEAD TIME. CONSULT YOUR SALES REPRESENTATIVE FOR DETAILS.

SINGLE RELAY

ORDERING INFORMATION Lead times will vary depending on options selected. Consult with your sales representative.

Example: LAHOSZU

Series	Lens option	Dimming/Photocell	Max. dim Level	Min. dim level	Temp/Humidity	Default time delay
L LSXR passive infrared indoor occupancy sensor	A High mount, 360° B Low mount, 360° C High mount aisleway	O None[1] H High/low occupancy operation P Switching photocell(on/off) M Dimming and switching photocell G Dimming and switching photocell with high/low occupancy operation	0 10 VDC 9 9 VDC 8 8 VDC 7 7 VDC	S Minimum dimming level of ballast 1 1 VDC 2 2 VDC 3 3 VDC 4 4 VDC 5 5 VDC 6 6 VDC	Z None T Low temperature	I 30 seconds D 2.5 minutes X 5 minutes R 7.5 minutes U 10 minutes (with minimum 15 minutes on time) V 15 minutes W 20 minutes Y 30 minutes

DUAL RELAY (Available with 120, 277, and 347V only)

ORDERING INFORMATION Lead times will vary depending on options selected. Consult with your sales representative.

Example: LA2KZU

Series	Lens option	Poles	Operating mode	Temp/Humidity	Default time delay
L LSXR passive infrared indoor occupancy sensor	A High mount, 360° B Low mount, 360° C High mount aisleway	2 Dual relay	J None K Alternating off relays (promotes even lamp wear) O Alternating off relays w/photocell P Switching photocell(on/off) E Photocell on/off (pole 1 only) F Photocell on/off - both poles (dual set-point)	Z None T Low temperature	I 30 seconds D 2.5 minutes X 5 minutes R 7.5 minutes U 10 minutes (with minimum 15 minutes on time) V 15 minutes W 20 minutes Y 30 minutes

Example: LENS 50 J100

Replacement lenses: *Order as separate catalog number.*

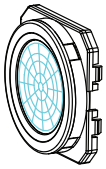
Series	Lens type	Package quantity
Lens	6 High mount 360° 10 Low mount 360° 50 High mount aisleway	U Unit J10 10-pack J100 100-pack

Notes

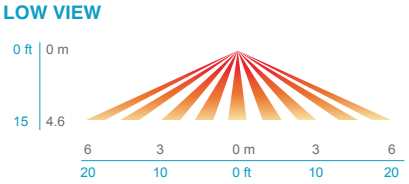
1 Dimming level fields not required when this option is chosen.

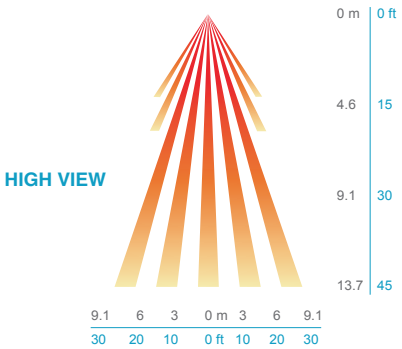
LSXR COVERAGE PATTERNS

HIGH MOUNT 360° LENS (#6)

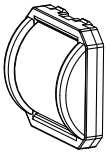


- Best choice for 15 to 45 ft (4.57 to 13.72 m) mounting heights
- 15 to 20 ft (4.57 to 6.10 m) radial coverage overlaps area lit by a typical high bay fixture
- Excellent detection of large motion (e.g. walking) up to a 35 ft (10.76 m) mounting height
- Excellent detection of extra large motion (e.g. forklifts) up to a 45 ft (13.72 m) mounting height

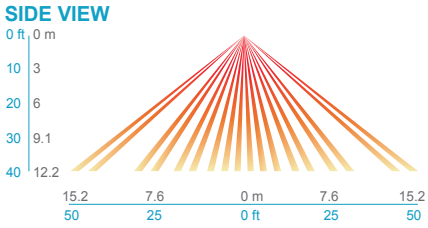




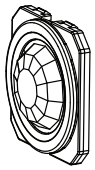
HIGH MOUNT AISLEWAY LENS (#50)



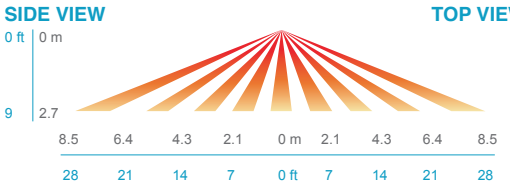
- Provides a bi-directional coverage pattern ideal for warehouse racking
- 1.2x mounting height equals approximate detection range in either direction
- Typical 40 ft (12.19 m) mounting detects 50 ft (15.24 m) in either direction
- Superior aisleway coverage compared to a masked 360° lens

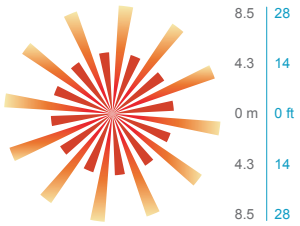


LOW MOUNT 360° LENS (#10)



- Best choice for large motion detection (e.g. walking)
- 360° conical shaped pattern
- Provides ~24 ft (7.32 m) radial coverage (~2000 ft²) when mounted at 9 ft (2.74 m)
- 7 to 15 ft (2.13 to 4.57 m) mounting heights provide 16 to 36 ft (4.88 to 10.97 m) radial coverage
- Detection range improves when walking across beams compared to into beams



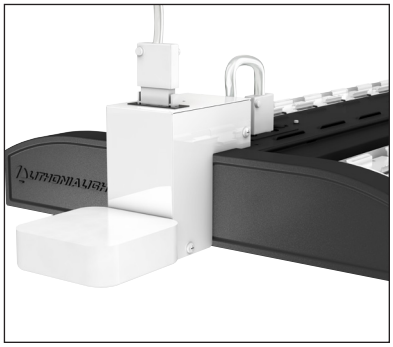


IMP - Integrated Modular Plug

- The integrated modular plug (IMP) option allows the installer to plug and play a multitude of accessories.
- Cord sets connect quickly to any fixture with IMP option.
- IMP accessories include occupancy sensors, photocells, X-point relays.

IMP compatible sensors [1]	
CS1WIMP	Straight plug, 120V
CS3WIMP	Twist-lock, 120V
CS7WIMP	Straight plug, 277V
CS11WIMP	Twist-lock, 277V
CS25WIMP	Twist-lock, 347V
CS93WIMP	600V SEOOW white cord, no plug
CS97WIMP	Twist-lock, 480V

IMP compatible sensors	
MSIIMP	Aisle sensor
MSI360IMP	360° sensor



Notes

1 Cord set required for fixture operation. All cord sets are 18/3, 6' white..

RRL - RELOC®-Ready Luminaire

- RRL connectors can be used with Quick-Flex®, System 820 and OnePass® systems.
- Load side of connector factory installed to luminaire.
- 4-pole mating connector with push-in terminations allows for simple installation.
- Touch-safe design on both halves meets UL/CSA requirement.
- Wiping contact design allows safe disconnect under load.

ORDERING INFORMATION Lead times will vary depending on options selected. Consult with your sales representative. **Example**: RRLA

Series		Wiring instructions			
RRL	RELOC®-ready luminaire	A	Hot conductor wired to position #1 (phase A)	AE	Hot conductor wired to position #1 (phase A), hot conductor #2 wired to position #2 (phase B) [2]
		B	Hot conductor wired to position #2 (phase B)	ABE	Hot conductor wired to position #1 (phase A), hot conductor #2 wired to position #2 (phase B), inverter conductor wired to position #3 (phase C) [1,2]
		C	Hot conductor wired to position #3 (phase C) [1]	C12S	Hot conductor in position #1 (phase A), low voltage conductor #1 in position #2,low voltage conductor #2 in position #3 [1,3]
		AB	Outboard hot conductor wired to position #1 (phase A), inboard hot conductor wired to position #2 (phase B)		

Compatible RELOC® Cables for Industrial Luminaires (shipped and ordered separately)

OCS

OCU

OD

DC

PT

Notes

1 C, ABE, and C12S options are not used with Quick-Flex QFC, QSFC, QPT, and QD.

2 AE and ABE commercial fixtures should disconnect the TSPL before unplugging the RRL so it does not go into discharge mode.

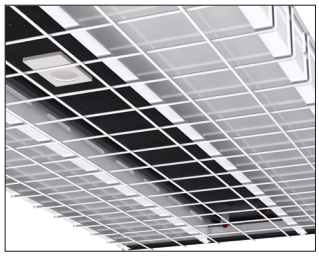
3 C12S option is used with the OnePass OD and 820 SSC, PT, and DC for 0-10V/DALI applications.

OPTIONS AND ACCESSORIES

The I-BEAM LED fixture offers numerous options for almost every electrical and optical component, including a long list of field-installable accessories.

REFLECTORS
Wide distribution is formed with 93% reflective white paint. Narrow distribution is formed with Alanod® MIRO®.

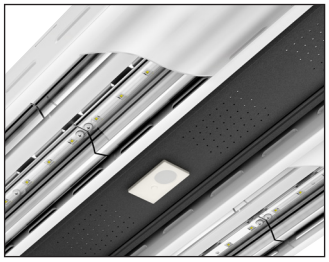
INTEGRATED ELECTRICAL OPTIONS
Channel sized to accept emergency components, surge protector, fusing and embedded sensors.



WIRE GUARD (external)
Field- or factory-installed. Protects light engine from impact. Mounting hardware included.

Factory-installed option:
WGX

Field-installed options:
WGIBL
WGIBL48



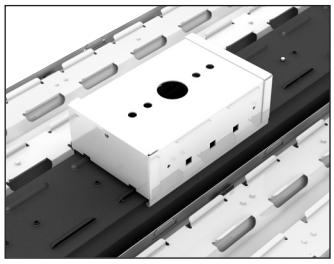
DIFFUSER
Field- or factory-installed. Available in semi-diffuse acrylic. Mounting hardware included.

Factory-installed option:
SD125

Field-installed option:
DLIBL SD125
DLIBL48 SD125

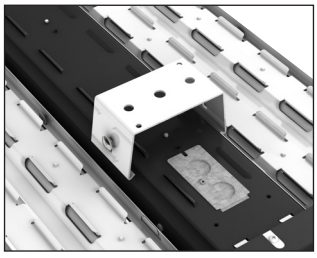
EMBEDDED OCCUPANCY SENSOR
Factory installed Sensor Switch® SFR30 (MSE360) or SFR7 (MSE360LB) placed in the channel cover which reduces the risk of sensor damage compared to non-embedded sensors. Recommended mounting height for MSE360 is over 15' and MSE360LB under 15'.

Factory-installed option:
MSE360
MSE360LB



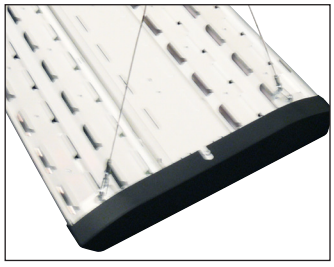
PENDANT MONOPOINT BRACKET
Accepts ¾" rigid conduit for single-point mounting. The bracket can be adjusted to help counterbalance fixture to offset weight variance from end to end.

Order as:
IBLPMP
IBLPMPHB
IBLPMP48
IBLPMPHB48



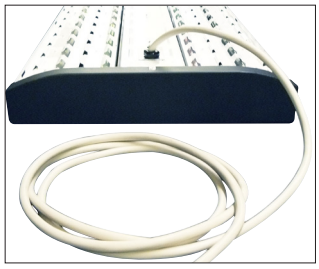
SURFACE MOUNT BRACKET
Rigidly attach I-BEAM LED to a hard ceiling. Can be placed anywhere along fixture.

Order as:
THUN (not for use in ambient temperatures exceeding 95°F (35°C), or on the 36L or 48L)



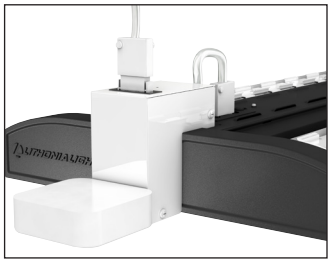
HANGERS
Several lengths of aircraft cables and chains available; with or without V-hooks.

Order as:
IBAC120 M20
IBHMP
For others, see accessories on page 1.



CORD SETS
Available in several lengths with or without molded plug. White is standard.

For available options, see ordering information on page 1.



INTEGRATED MODULAR PLUG (IMP)
Must be factory-installed and allows for field installation of various modular accessories including cordsets, motion sensors, photocells and LC&D X-point™ relays. Fixture must be ordered with IMP option. Requires IMP power cord to operate fixtures.

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LITHONIA LIGHTING®

Catalog Number	
Notes	
Type	

I-BEAM® IBZ
FLUORESCENT HIGH BAY

Fluorescent High Bay

IBZ

4-, 6- or 8-lamp T8

Patent Pending

FEATURES & SPECIFICATIONS

INTENDED USE — The I-BEAM® IBZ fluorescent high bay is ideal for new construction and renovation projects. It is a one-for-one replacement of common metal halide high bay systems. Applications include manufacturing, warehousing, commercial and industrial facilities. The IBZ fixture performs well at mounting heights from 15'-40'. **Certain airborne contaminants can diminish integrity of acrylic. Click here for Acrylic Environmental Compatibility table for suitable uses.**

CONSTRUCTION — The highly configurable design of the IBZ high bay allows for a multitude of fixture options that can either be factory- or field-installed. In addition to the reliable operation of IBZ fixtures, the reflectors tightly control the distribution of light and effectively manage lamp heat to increase the overall efficiency. The result is superior optics in either narrow distribution for aisles, or wide distribution for general lighting. Installation is made quick and easy with IBZ hanging accessories such as the aircraft cable and single-point mounting bracket. IBZ fixtures can be factory-wired to have both sensors and cord sets, further reducing installation time. The configurability, performance and ease of installation make IBZ fixtures the preferred choice for fluorescent high bay lighting.

Channel is formed of heavy-duty code-gauge (22-gauge) steel to stand up to the most demanding elements. Lamp holder assembly protects from incidental damage or movement of sockets during handling and installation. Sockets include secure positioning rotating collars with enclosed contacts. Access plate on the back of the channel housing allows quick and easy wiring. Finish: Channel is high-gloss white baked enamel; five-stage iron phosphate pretreatment ensures superior paint adhesion and rust resistance.

OPTICS — Two optical systems are available. Narrow distribution is ideal for narrow or aisle lighting applications and features precision-formed segmented optics utilizing specular aluminum reflector. Provides 95% reflectivity and warranted for 25 years. Wide distribution includes high-reflectance white finish for general or open areas.

ELECTRICAL — Thermally protected, resetting, Class P, HPF, A+ sound-rated electronic ballast. AWM TFM or THHN wire used throughout rated for required temperatures. Ballast disconnect (BDP) is standard unless EL14 or cordset is requested.

INSTALLATION — Suitable for suspension by chain, cable, surface-mounting bracket, hook monopoint or single (pendant) monopoint. Surface mounting not recommended without optional surface mounting bracket.

LISTINGS — CSA Certified to U.S. and Canadian safety standards (UL1598 and CSA 250.0-08 for 25C ambient operation). Suitable for damp locations.

WARRANTY — 1-year limited warranty. Complete warranty terms located at www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx

Actual performance may differ as a result of end-user environment and application.

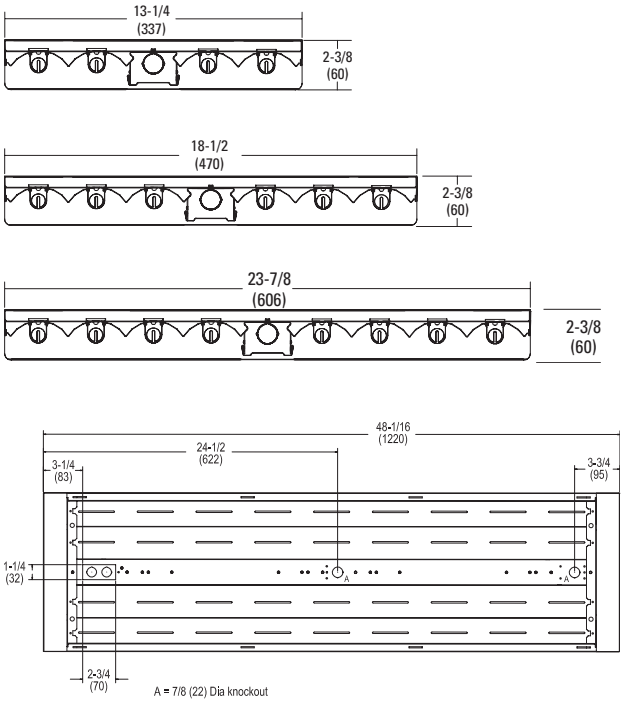
Note: Specifications subject to change without notice.

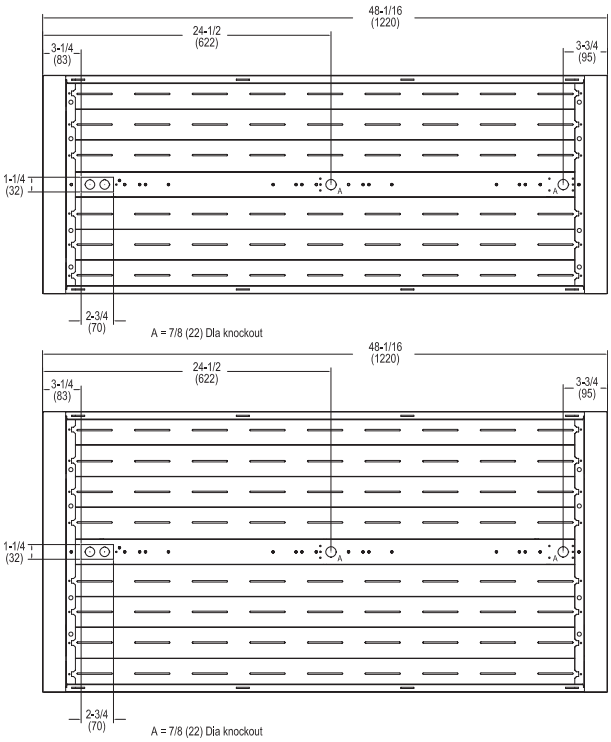
SPECIFICATIONS				
	Length	**Width**	**Depth**	**Weight**
4-lamp	48-1/16 (1221)	13-1/4 (337)	2-3/8 (60)	16 lbs. (7.3 kg)
6-lamp	48-1/16 (1221)	18-1/8 (460)	2-3/8 (60)	20 lbs (9.1 kg)
8-lamp	48-1/16 (1221)	23-7/8 (606)	2-3/8 (60)	25 lbs. (11.3 kg)

All dimensions are inches (millimeters) unless otherwise specified and may vary with options or accessories.

DIMENSIONS

Dimensions may vary with options or accessories.





IBZ Fluorescent High Bay, T8

ORDERING INFORMATION For shortest lead times, configure products using **standard options (shown in bold)**. **Example**: IBZ 432L

IBZ					
Series	**Lamp type**	**Distribution**	**Shielding** [2]	**Voltage**	**Ballast configuration**
IBZ *For tandem double-length unit, add prefix "T". Ex: TIBZ*	Lamps installed [1] **432L** 4-lamp 32W T8 **632L** 6-lamp 32W T8 **832L** 8-lamp 32W T8 Unlamped **432** 4-lamp 32W T8 **632** 6-lamp 32W T8 **832** 8-lamp 32W T8	**(blank)** Narrow distribution, ≤5% uplight NDU Narrow distribution, enhanced uplight, ≤13% uplight **WD** Wide distribution, ≤5% uplight WDU Wide distribution, enhanced uplight, ≤13% uplight	**(blank)** No shielding A12125 Pattern 12 acrylic, 0.125" [3] ACL Clear acrylic, 0.125" [3] PCL125 Clear polycarbonate, 0.125" [3]	**(blank)** MVOLT; 120-277V	**(blank)** Standard configuration (see ballast configurations chart on page 3)

Ballast [4]		Lamp color		Options		Cord sets:		Motion sensors:	
(blank)	T8 electronic, instant start, 1.15-1.20 BF	**(blank)**	F32T8/841	GLR	Internal fast-blow fuse [5,6]	CS1W	Straight plug, 120V [12,13]	LC0ZU	Aisle motion sensor, pre-wired [15,16]
GEB10IS	T8 electronic ballast, ≤10% THD, instant start, .88 BF	LP835	F32T8/835	GMF	Internal slow-blow fuse [5,6]	CS3W	Twist-lock, 120V [12,13]	LCH0SZU	Aisle motion sensor, pre-wired; programmable dimming [15,16]
GEB10PS	T8 electronic ballast, ≤10% THD, programmed rapid start, .88 BF	LP850	F32T8/850	EL14	Emergency battery pack [5,6,7]	CS7W	Straight plug, 277V [12,13]	LCPZU	Aisle motion sensor with photocell; pre-wired [15,16]
GEB10PSH	T8 electronic ballast, ≤10% THD, programmed rapid start, 1.15-1.20 BF			EL14SD	Emergency battery pack w/ self-diagnostics [5,7,8]	CS11W	Twist-lock, 277V [12,13]	LA0ZU	360° motion sensor, pre-wired [15,16]
				I162	1250 lumens per lamp battery [5,7,9]	CS25W	Twist-lock, 347V [12,13]	LAH0SZU	360° motion sensor, pre-wired; programmable dimming [15,16]
				OUTCTR	Wiring leads pulled through back center of fixture [2]	CS97W	Twist-lock, 480V [12,13]	LAPZU	360° motion sensor with photocell, pre-wired [15,16]
				OCS	RELOC® OnePass® 5' installed [5]	CS93W	600 SO white cord, no plug (no voltage required) [12]	MSE360	360° motion sensor, embedded, high bay [15,16]
				IMP	Integrated modular plug [10,11]	Wireguards:		MSE360LB	360° motion sensor, embedded, low bay [15,16]
				FSP	Integral full side panels	WGX	External wireguard installed	nPP16D	nLight switching/dimming module [17]
				HBBSIC	Chain hanger (pair)	2WGX	Dual wireguard for top and bottom protection [14]	nMSI	nLight, aisle motion sensor, pre-wired [18]
				HBBS36IC	Chain hanger with 36" chain (pair)			nMSI360	nLight, 360° motion sensor, pre-wired [19]

Accessories: *Order as separate catalog number.*

Mounting:		Field-installable door and lens assemblies: [2,21]		Cord sets and sensors for IMP option:		Wireguards:	
IBAC120 M20	Aircraft cable 10' with hook (one pair)	DLIBZ14 A12125	4-lamp pattern 12 acrylic lens, 0.125" [2,21]	CS1WIMP	Straight plug, 120V [12,13]	WGIBZ14	Standard 4-lamp wireguard
IBAC240 M20	Aircraft cable 20' with hook (one pair)	DLIBZ14 ACL	4-lamp clear acrylic lens [2,21]	CS3WIMP	Twist-lock, 120V [12,13]	WGIBZ19	Standard 6-lamp wireguard
IBHMP	Hook monopoint	DLIBZ14 PCL125	4-lamp clear polycarbonate lens, 0.125" [2,21]	CS7WIMP	Straight plug, 277V [12,13]	WGIBZ24	Standard 8-lamp wireguard
IBZACVH	Aircraft 10' V hanger (one pair)	DLIBZ19 A12125	6-lamp pattern 12 acrylic lens, 0.125" [2,21]	CS11WIMP	Twist-lock, 277V [12,13]		
IBZTFC	Tandem coupler and 8' side panel	DLIBZ19 ACL	6-lamp clear acrylic lens [2,21]	CS25WIMP	Twist-lock, 347V		
IBZPMP	Pendant monopoint splice box, includes side covers [20]	DLIBZ19 PCL125	6-lamp clear polycarbonate lens, 0.125" [2,21]	CS93WIMP	600V SO white cord, no plug (no voltage required) [12]		
IBZPMPHB	Pendant monopoint splice box, includes side covers (3/4" hub) [20]	DLIBZ24 ACL	8-lamp clear acrylic lens [2,21]	CS97WIMP	Twist-lock, 480V		
HBBS36	Chain hanger, 36" (one pair)	DLIBZ24 PCL125	8-lamp clear polycarbonate lens, 0.125" [2,21]	MSIIMP	Aisle sensor [11,22]		
IBZSMB	Surface-mounting bracket (one pair)			MSI360IMP	360° sensor [11,22]		

Notes

1 Lamps installed are F32T8/841 unless otherwise specified
2 Not available with MSE360 or MSE360LB options.
3 For wireguard in door frame, add "WG" to shielding. Ex: A12125WG.
4 Certain ballast may require a BACKPACK™ installed by the factory in order to accommodate the size of the battery. The BACKPACK is NOT field installable. May only be surface mounted using IBZSMB. Not available with pendant mount using IBZPMP or IBZPMPHB. Not available with IMP.
5 Specify voltage
6 Not available with 347 voltage
7 Battery options require a BACKPACK™ installed by the factory in order to accommodate the size of the battery. The BACKPACK is NOT field installable. May only be surface mounted using IBZSMB. Not available with pendant mount using IBZPMP or IBZPMPHB. Not available with IMP.
8 Output in emergency mode varies with ambient temperature (911 lumens at 45°C). Single-lamp operation only. 120 or 277 voltage only.
9 Max 3000 lumens when used with T8 lamps up to 55°C ambient temperature. Not available with IMP. 120 or 277 voltage only.
10 Must be factory-installed. Not available on TIBZ 16-lamp configurations.
11 Must have "IMP" power cord to power fixture.
12 All cord sets are 18/3, 6', white.
13 Cord sets are voltage specific. Specify voltage. Other configurations available. Consult factory.
14 External bottom wireguard factory installed. External top wireguard shipped separately for field installation. Not available with IBZPMP.
15 Specify voltage
16 Other configurations available, see page four for additional options
17 nPP16D options utilizes nPP16 and a nIO D KO device, CAT5e connector cable alos included. Available 120 or 277V only.
18 nMSI option utilizes nPP16 and a nCMB 50, CAT5e cable also include. Available 120 or 277V only.
19 nMSI360 option utilizes a nPP16 and a nCMB 6, CAT5e cable also included. Available 120 or 277V only.
20 When ordering IBZPMP, two-ballasts configurations are recommended. Ex: 2/2. Not available with tandem units.
21 Add WG to nomenclature if wireguard is to be installed in door frame, ex: DLIBZ14 A12125WG.
22 120 or 277 voltage only. Must have "IMP" power cord to power fixture.

INDUSTRIAL: One Lithonia Way Conyers, GA 30012 Phone: 800-315-4963 Fax: 770-981-8191 www.lithonia.com
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LSXR - Fixture Mount Sensor (see www.sensorswitch.com for additional information)

- Four interchangeable lenses.
- Integrated mounting bracket drops lens down 3" from chase nipple.
- Single or dual relay versions — designed with robust protection from the harsh switching requirements of T5 and LED loads.
- Photocell and 0-10VDC dimming options.
- No PIR field calibration or sensitivity adjustments required.

LSXR configuration	Comparable CMRB sensor	Old style sensor nomenclature
For shortest lead times use one of the following LSXR configurations		
LCOZU	CMRB 50	MSI
LCHOSZU	CMRB 50 D	MSID
LCPZU	CMRB 50 P	MSIPED
LAOZU	CMRB 6	MSI360
LAHOSZU	CMRB 6 D	MSI360D
LAPZU	CMRB 6 P	MSI360PED

SELECTIONS BELOW WILL EXTEND ORDER LEAD TIME. CONSULT YOUR SALES REPRESENTATIVE FOR DETAILS.

SINGLE RELAY

ORDERING INFORMATION Lead times will vary depending on options selected. Consult with your sales representative.

Example: LAHOSZU

Series	Lens option	Dimming/Photocell	Max. dim Level	Min. dim level	Temp/Humidity	Default time delay
L LSXR passive infrared indoor occupancy sensor	A High mount, 360° B Low mount, 360° C High mount aisleway	O None[1] H High/low occupancy operation P Switching photocell(on/off) M Dimming and switching photocell G Dimming and switching photocell with high/low occupancy operation	0 10 VDC 9 9 VDC 8 8 VDC 7 7 VDC	S Minimum dimming level of ballast 1 1 VDC 2 2 VDC 3 3 VDC 4 4 VDC 5 5 VDC 6 6 VDC	Z None T Low temperature	I 30 seconds D 2.5 minutes X 5 minutes R 7.5 minutes U 10 minutes (with minimum 15 minutes on time) V 15 minutes W 20 minutes Y 30 minutes

DUAL RELAY (Available with 120, 277, and 347V only)

ORDERING INFORMATION Lead times will vary depending on options selected. Consult with your sales representative.

Example: LA2KZU

Series	Lens option	Poles	Operating mode	Temp/Humidity	Default time delay
L LSXR passive infrared indoor occupancy sensor	A High mount, 360° B Low mount, 360° C High mount aisleway	2 Dual relay	J None K Alternating off relays (promotes even lamp wear) O Alternating off relays w/photocell P Switching photocell(on/off) E Photocell on/off (pole 1 only) F Photocell on/off - both poles (dual set-point)	Z None T Low temperature	I 30 seconds D 2.5 minutes X 5 minutes R 7.5 minutes U 10 minutes (with minimum 15 minutes on time) V 15 minutes W 20 minutes Y 30 minutes

Example: LENS 50 J100

Replacement lenses: *Order as separate catalog number.*

Series	Lens type	Package quantity
Lens	6 High mount 360° 10 Low mount 360° 50 High mount aisleway	U Unit J10 10-pack J100 100-pack

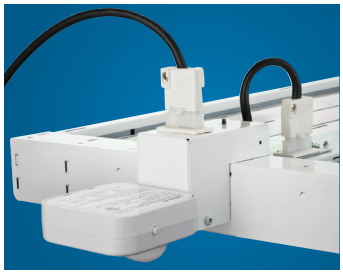
Notes

1 Dimming level fields not required when this option is chosen.

STANDARD BALLAST CONFIGURATIONS			
	4 - lamp	**6 - lamp**	**8- - lamp**
T8 instant start (1.15 - 1.20 bf)	Two 2 - lamp ballasts	Two 3 - lamp ballasts	Two 4 - lamp ballasts
T8 instant start (.88 bf)	One 4 - lamp ballast	One 4 - lamp and one 2 - lamp ballast	Two 4 - lamp ballasts
T8 program rapid start (1.15 - 1.20 bf)	Two 2 - lamp ballasts	Two 3 - lamp ballast	One 2 - lamp and two 3 - lamp ballasts
T8 program rapid start (.88 bf)	One 4 - lamp ballast	One 4 - lamp and one 2 - lamp ballast	Two 4 - lamp ballasts

OPTIONS AND ACCESSORIES

The I-BEAM fixture offers numerous options for almost every electrical and optical component, including a long list of field-installable accessories.



INTEGRATED MODULAR PLUG (IMP)

Must be factory-installed and allows for field installation of various modular accessories including cordsets, motion sensors, photocells and LC&D XPoint™ relays. Requires IMP cordset for operation.

Order as:

IMP

IBZ BACKPACK™

Electrical box must be factory-installed to house additional components such as emergency ballasts, step-down transformers and dimming ballasts. Extended brackets allow air flow for increased heat management of all components.

Factory-installed.

V-SHAPED WIRE GUARD (external)

Flex on impact to absorb shock, reducing damage to the fixture assemblies. Wire guards can be mounted on top and bottom of fixtures to provide full protection.

Factory-installed option:

WGX

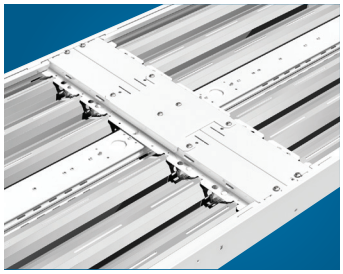
2WGX

Field-installed option:

WGIBZ14

WGIBZ19

WGIBZ24



TANDEM CAPABILITY

Supports applications requiring high luminance and high mounting heights. The 8' tandem option is factory-assembled with continuous steel side panels and tensioning couplers. Tandem kits are also available for field installation.

Factory-installed option:

TIBZ

Field-installed option:

IBZTFC

PENDANT MONOPOINT BRACKET

Accepts ¾" rigid conduit for single-point mounting. The bracket can be adjusted to help counterbalance fixture to off set weight variance from end to end.

Order as:

IBZPMP

IBZPMPHB

INDUSTRIAL: One Lithonia Way Conyers, GA 30012 Phone: 800-315-4963 Fax: 770-981-8191 www.lithonia.com

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LITHONIA LIGHTING®

Catalog Number	
Notes	
Type	

FEATURES & SPECIFICATIONS

INTENDED USE — Ideal for applications requiring attractive, quick-installation exit signs and low energy consumption.

CONSTRUCTION — Engineering-grade thermoplastic housing is impact-resistant, scratch-resistant, and corrosion-proof. UL94V-0 flame rating. UV-stable resin resists discoloration from natural and man-made light sources.

Rugged unibody housing snaps together with no additional mechanical fasteners. Faceplate and back cover are interchangeable on housing. Positive snap-fit tabs hold faceplate securely, yet easily removable for lamp compartment access.

Universal directional Chevron inserts are easily removed and reinserted. Uniform illumination without shadows or hot spots. Reinforced, impact-resistant color panels. Letters 6" high with 3/4" stroke, with 100 ft. viewing distance rating, based upon UL924 standards.

U.S. Patent No. 5,526,251; 5,611,163; 5,739,639; 5,954,423; 5,988,825; 6,152,581; D383,501 ; D495,751 and 6,502,044. Other patents pending.

OPTICS — LEDs mounted on printed circuit boards. Low energy consumption – less than one watt. LED lamp operates in normal (AC input) and emergency (DC input) modes.

The typical life of the exit LED lamp is 10 years.

ELECTRICAL — Low-voltage disconnect prevents excessively deep discharge that can permanently damage battery. Conveniently located test switch and LED provide visual and manual means of monitoring system.

Constant-current series charger minimizes energy consumption and provides low operating costs. Printed circuit boards are 100% quality tested during manufacturing. Current-limiting charger circuitry protects printed circuit boards from shorts.

AC/LV reset (line latch) allows battery connection before AC power is applied and aids in preventing battery damage from deep discharge.

Crystal oscillator timing system with watchdog protection for precision accuracy.

Brownout protection is automatically switched to emergency mode when supply voltage drops below 80% of nominal.

Battery: Sealed, maintenance-free nickel-cadmium battery delivers 90-minutes capacity to emergency lamps. Two-state constant-current charge maximizes battery life and automatically recharges after battery discharge.

Diagnostics: Single-point microcomputer control for all electronic features.

Single multi-chromatic LED indicator to display two-state charging, test activation and three-state diagnostic status.

Test switch provides manual activation of 30-second diagnostic testing for on-demand visual inspection. Self-diagnostic testing for five minutes every 30 days and 30 minutes every six months and 90 mins annually with WRS.

Diagnostic evaluation of LED light source, AC to DC transfer, charging and battery condition. Continuously monitors AC functionality.

INSTALLATION — Universal (top-, end-, or back-) mounting. Easily removed mounting knockouts. J-box pattern on back panel. Housing snaps to canopy with four positive-locking tabs. Cam-locking pin tightly secures housing to canopy.

Ships standard with additional face plate.

LISTINGS — UL damp location listed 50°-104°F (10°-40°C) standard. NOM Certified (see options). Meets UL924, NFPA 101 (current Life Safety Code), NEC and OSHA illumination standards. NEMA Premium certified.

Meets all applicable FCC requirements.

QUANTUM®

Thermoplastic Exits

LQM

LED LAMPS

NEMA Premium LED

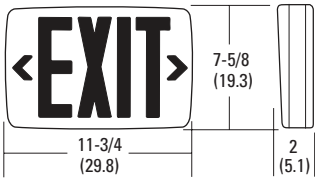
Specifications

Length: 11-3/4 (29.8)

Depth: 2 (5.1)

Height: 7-5/8 (19.3)

Weight: 2.6 lbs (1.2 kgs)



All dimensions are inches (centimeters) unless otherwise specified.

WARRANTY — 5-year limited warranty. (Battery is prorated.) Complete warranty terms located at www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx

Actual performance may differ as a result of end-user environment and application.

Note: Specifications subject to change without notice.

ORDERING INFORMATION

For shortest lead times, configure product using **bolded options.**

Example: LQM S W 3 R 120/277 EL N

LQM							
Family	**Face type**	**Housing color**	**Number of faces**	**Letter color**	**Input voltage[2]**	**Operation**	**Options**
LQM	**S** Stencil P Panel[1]	**(blank)** Black **W** White	**3** Single face with extra faceplate and color panel	**R** Red **G** Green	**120/277** Dual voltage	**(blank)** AC only **X2** Primary and secondary AC inputs provided [3] **EL N** Nickel cadmium battery	**(blank)** None NOM NOM certified for Mexico[4] SD Self-diagnostics[5] SDFIFA Self-diagnostics, fire alarm flashing interface and flashing emergency operation and intermittent audible alarm (one flash/one second)[5]

Accessories: Order as separate item.			
ELA WG1	Back-mount wireguard[6]	ELA WGEXE	End-mount wireguard[6]
ELA WGEXT	Top-mount wireguard[6]	ELA LQMUS12	12" stem kit[7]

Notes

1 Only available in custom signage. See spec sheet, Custom-Signage.
2 Some special voltages available. Consult factory.
3 Must specify input voltage 120 or 277. Not available with other options.
4 Available with stencil or panel faces in white housing.
5 Only available with EL N operation.
6 See spec sheet ELA-WG.
7 See spec sheet ELA-Stemkits.

SPECIFICATIONS

ELECTRICAL

Primary Circuit

Type[1]	Typical LED life[2]	Supply voltage	Input watts	Max. amps
Red LED AC Only	10 years	120	.62	.05
		277	.69	.06
Green LED AC Only	10 years	120	.62	.05
		277	.74	.06
Red LED Emergency	10 years	120	.71	.05
		277	.92	.06
Green LED Emergency	10 years	120	.66	.05
		277	.70	.06

BATTERY

Nickel Cadmium

Voltage	Shelf life[3]	Typical life[3]	Maintenance[4]	Optimum temperature[5]
1.2	3 years	7-9 years	none	50°F - 104°F (10°C - 40°C)

Notes

1 LED lamps operate in normal (AC input) and emergency (DC input) modes.

2 Based on continuous operation. The typical life of the exit LED lamp is 10 years.

3 At 77°F (25°C).

4 All life safety equipment, including emergency lighting for path of egress must be maintained, serviced and tested in accordance with all National Fire Protection Association (NFPA) and local codes. Failure to perform the required maintenance, service, or testing could jeopardize the safety of occupants and will void all warranties.

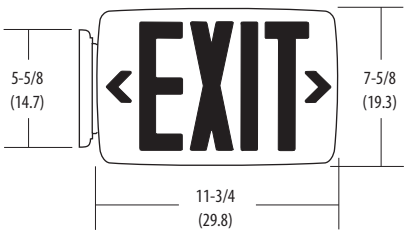
5 Optimum ambient temperature range where unit will provide capacity for 90 minutes. Higher and lower temperatures affect life and capacity. Consult factory for detailed information.

MOUNTING

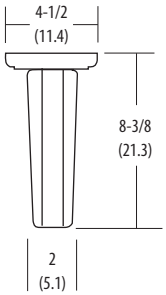
All dimensions are inches (centimeters) unless otherwise specified.

Shipping weight: 2.6 lbs. (1.2 kgs.)

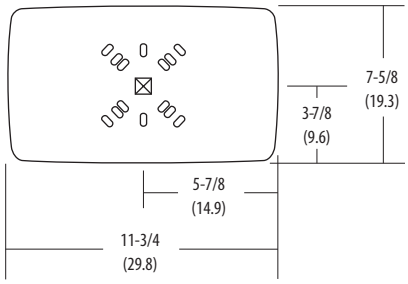
End Mounting



Top Mounting



Back Mounting



EMERGENCY: One Lithonia Way Conyers, GA 30012 Phone: 800.334.8694 Fax: 770.981.8141 www.lithonia.com ©1993-2015 Acuity Brands Lighting, Inc. All rights reserved. Rev. 06/30/15

Return to: Katrina Karow
Kenosha Water Utility
4401 Green Bay Road
Kenosha, WI 53144
Email: kkarow@kenosha.org

Date Sent: 4/7/16

Date Due:_____

VILLAGE OF PLEASANT PRAIRIE
INDUSTRIAL WASTE SURVEY

To be submitted to the

Kenosha Water Utility

General Information

1. Facility Name: **Prange DPW Storage Building**
2. Mailing Address: **8600 Green Bay Road**
3. City, State, Zip Code: **Pleasant Prairie, WI 53158**
4. Site Address: **Same**
5. Standard Industrial Classification Code (SIC): **8744**
6. Name, Title and Telephone Number of the Authorized Representative and the Company Contact Person Responsible for Environmental Compliance.

Authorized Representative	*Company Contact*
Name: **John Steinbrink Jr.**	Name: **Same**
Title: **Director of Public Works**	Title:
Phone #: **262-925-6765**	Phone #:

The authorized representative must be a president, secretary, treasurer, or vice-president of the corporation in charge of a principle business function, or general partner or proprietor, or an individual designated by the aforementioned corporate official. The designated individual must meet the following criteria: (1) the person must be responsible for the overall operation of the facilities from which discharges originate, (2) the person is authorized in writing, and (3) the written authorization is submitted to the POTW.

7. List All Environmental Control Permits Held by or for the Facility.

None.

Operational Characteristics

1. Existing Number of Employees: Full Time N/A Part Time N/A

2. Operational Schedule: Days/Wk 5 Hours/Day 8 # Shifts 1

3. Describe the nature of the business conducted at this facility (if more than one type ,of business or manufacturing takes place, list all activities): Department of Public Works Equipment Storage Building

4. List principal raw materials used: Not Applicable.

5. List products produced and the average rate of production: Not Applicable

6. List types of wastes created during production and any by-products produced: Not Applicable

7. Estimate the quantity of water to be used by the facility during a six month period. Record the gallons of water anticipated by this facility. 12,000 gallons / 6months gallons.

   Indicate the source of the facility's water: Kenosha _____ Pleasant Prairie X

   Meter number or address assigned to water meter(s). 8600 Green Bay Road Pleasant Prairie, WI 53158

8. Type of discharges: Continuous X Batch _____

   If batch was indicated, give the average frequency and approximate volume of any batch discharges: _____

9. Describe the uses of water at this facility: Wash water

Wastewater Information

1. A process wastewater IS any wastewater discharged other than for sanitary, non-contact cooling or boiler blow-down purposes. List activities which generate a process wastewater and the time and duration of each discharge.

Wastewater Producing Process	Time and Duration of Discharges
Not Applicable	

2. For each process wastewater stream list all the materials and pollutants which to believe may be present in the discharge.

Not Applicable

3. Contact cooling water is cooling water that during the process comes into contact with process material, thereby becoming contaminated. Non-contact cooling water does not come into contact with process materials. Does this facility utilize cooling water? NO

4. Water volume used and discharged to sanitary sewer. A review of previous water usage bills may be helpful in assigning values to the following flows. If sanitary flow is not metered, provide an estimate based on 20 gallons per day fir each employee (i.e. water balance).

	Gallons per Day		Type of Wastewater Discharge
	Consumed	Discharges	(Continuous, Batch, None)
Sanitary Usage	0	0	
Process Wastewater Usage	0	0	
Cooling Water Usage	0	0	
Other Usage	12,000	12,000	washing vehicles
Total Volume	12,000	12,000	

5. Describe all locations where wastewaters enter the collection system

Building floor drains collected and enters Village municipal sanitary sewer system.

6. Is there a sampling manhole on site? No X Yes

If yes, describe the locations:

7. Are sanitary and process wastewaters separated? No N/A Yes

8. Is boiler blowdown water discharged to the sanitary sewer? No X Yes

9. Does your facility haul any process wastewater? No X Yes

Compliance Information

1. Is there any usage of toxic compounds at the facility? No X Yes

If yes, list and use check list on last page.

2. Are there any floor drains in the manufacturing or chemical storage area? No X Yes

3. Is there a Spill Prevention Control and Countermeasure Plan in effect for this facility?

No Yes X If yes, describe procedure:

There will be multiple spill kits located in the facility.

5. Is any form of waste water pretreatment practiced at this facility? No X Yes _____

If yes, describe: _____

6. List any specific pretreatment standards that apply to this facility: None.

7. If pretreatment standards are not being met on a consistent basis, describe what additional and maintenance or pretreatment must be performed to achieve compliance.

Not Applicable

8. State the estimated timetable (compliance schedule) for the implementation of additional operations and maintenance or for the commencement and completion of major events leading to the construction and operation of the pretreatment facilities required to achieve compliance.

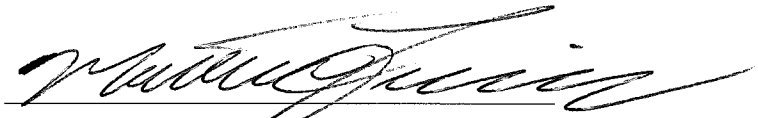
Not Applicable

Submissions

Include a schematic (print) of the facility that shows the water intake points(s), existing sanitary sewer, discharge points (connection(s) to sanitary collection system), and direction of wastewater flows at the facility. Provide a diagram of water flow through any processes that use water for any purpose.

Signatory Requirement

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate this information submitted. Based on my inquiry of the person or persons directly responsible for gathering the information, the information submitted is to the best of my knowledge and belief true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Matthew J. Fineour, P.E.	
Print Name: Authorized Representative	Signature: Authorized Representative
Village Engineer	4-7-16
Title	Date

Appendix
Toxic Pollutants Listed in 40CFP 307(a)

Known Absent	Suspected Present	Known Present	Polluntant
X			1 Acenaphthene
			2 Acrolein
			3 Acrylonitrile
			4 Aldrin/Dieldrin
			5 Antimony and compounds
			6 Arsenic and compounds
			7 Asbestos
			8 Benzene
			9 Benzidine
			10 Beryllium and compounds
			11 Cadmium and compounds
			12 Carbon tetrachloride
			13 Chlordane
			14 Chlorinated benzenes
			15 Chlorinated ethanes
			16 Chlorinalkyl ethers
			17 Chlorinated naphthalene
			18 Chlorinated phenols
			19 Chlorofoffi1
			20 2-chlorophenol
			21 Chromium and compounds
			22 Copper and compounds
			23 Cyanides
			24 DDT and metabolites
			25 Dichlorobenzenes
			26 Dichlorobenzidine
			27 Dichloroethylenes
			28 2,4-dichlorophenol
			29 Dichloropropane & Dichloropropene
			30 2,4-dimethylphenol
			31 Dinitrotoluene
			32 Diphenylhydrazine
▼			33 Endosulfan and metabolites

Known Absent	Suspected Present	Known Present	Polluntant
X			34 Endrin and metabolites
			35 Ethylbenzene
			36 Fluoranthene
			37 Haloethers
			38 Halomethanes
			39 Heptachlor and metabolites
			40 Hexachlorobutadiene
			41 Hexachlorocyclopentadiene
			42 Hexachlorocyclohexane
			43 Isophrone
			44 Lead and compounds
			45 Mercury and compounds
			46 Naphthalene
			47 Nickel and compounds
			48 Nitrobenzene
			49 Nitrophenols
			50 Nitrosamines
			51 Pentachlorophenol
			52 Phenol
			53 Phthalate esters
			54 Polychlorinated biphenyls (PCBs)
			55 Polynuclear aromatic hydrocarbon
			56 Selenium and compounds'
			57 Silver and compounds
			58 2,3,7,8-Tetrachlorodibenzo- p-dioxin (TCDD)
			59 Tetrachloroethylene
			60 Thallium and compounds
			61 Toluene
			62 Toxaphene
			63 Trichloroethylene
			64 Vinyl chloride
▼			65 Zinc and compounds

VILLAGE OF
PLEASANT
PRAIRIE

rev. 8/05

Filed _____ 20__ Published _____ 20__

Public Hearing _____ 20__ _____ 20__

Fee Paid _____ 20__ Approved _____ 20__

Notices Mailed _____ 20__ Denied: _____ 20__

VILLAGE OF PLEASANT PRAIRIE, WISCONSIN
COMMUNITY DEVELOPMENT DEPARTMENT
FLOODPLAIN BOUNDARY ADJUSTMENT

TO THE PLEASANT PRAIRIE VILLAGE PLAN COMMISSION AND BOARD OF TRUSTEES: The undersigned hereby applies for a permit to do the work herein described, and as shown on the required engineered drawings and analysis and hereby agrees that all wok will be done in accordance with all the lands of the State of Wisconsin and all of the Village of Pleasant Prairie Ordinance.

Subdivision/Development Name: **N/A** Lot ____ Block ____

Property location: **8600 Green Bay Road** Zoning District(s): **I-1**

Abutting Body of Water/River/Stream: **Jerome Creek**

Section **15 & 16** Township **1** Range: **22E**

Tax Parcel Number(s): **92-4-122-152-0301**

Project Specifications: This information shall also be provided with or shown on the required site plans.

Reason and purpose for the Floodplain Adjustment:

Construction of a Public Works equipment storage building.

Total volume proposed to be removed from the 100 year floodplain: **1500 CY** ~~cu. ft.~~

Total volume proposed to be added to the 100 year floodplain: **1615 CY** ~~cu. ft.~~

Type of fill materials (soil types) proposed to be used: **structural fill**

Mitigation measures or restoration methods to be used:

Disturbed areas will be restored with topsoil, seed, fertilizer, and erosion mat.

Time Schedule for filling: **Summer 2016 to Spring 2017**

9915 39th Avenue, Pleasant Prairie, Wisconsin 53158-6504 262.694.1400 FAX 262.694.4734

Each applicant applying for a floodplain adjustment permit is charged with the knowledge of the requirements of the Village Zoning Ordinance. Copies of the Ordinance or portions thereof are available for sale or inspection upon request. Any statement made, site plan submitted, any project improperly constructed, any assurance given or permit erroneously issued contrary to this Ordinance is null and void and may be subject to prosecution.

Section 420-131 of the Village Zoning Ordinance entitled "FPO, FLOODPLAIN OVERLAY DISTRICT" shall be complied with. In particular, Section 420-131t of the Village Zoning Ordinance entitled "REMOVAL OF LANDS FROM FLOODPLAIN/AMENDMENTS" outlines the general requirements to amend the floodplain boundary. Please be advised that compliance with the provisions of these regulations shall not be grounds for removing lands from the floodplain, unless they are removed by filling to a height of at least two feet above the regional flood elevation, the fill is contiguous to land lying outside the floodplain, the official floodplain map is amended, and FEMA revises the Flood Insurance Rate Map or issues a Letter of Map Amendment or Revision.

I (We), have provided the non-refundable filing fee and 12 copies of the required plans and engineering data necessary to amend the floodplain boundary and one (1) copy reduced onto a $8^1/_2$" x 11".

I,(We), hereby certify that all the above statements and attachments submitted herewith are true and correct to the best of my knowledge, and understand the above requirements and procedures.

PROPERTY OWNER:

Name: Village of Pleasant Prairie
(Please Print)

Signature: _____

Address: 9915 39th Avenue

Pleasant Prairie, WI 53158
(City) (State) (Zip)

Phone: 262-925-8951

Fax: 262-925-6796

Date April 7, 2016

OWNER'S AGENT:

Name: Matthew J. Fineour
(Please Print)

Signature: _____

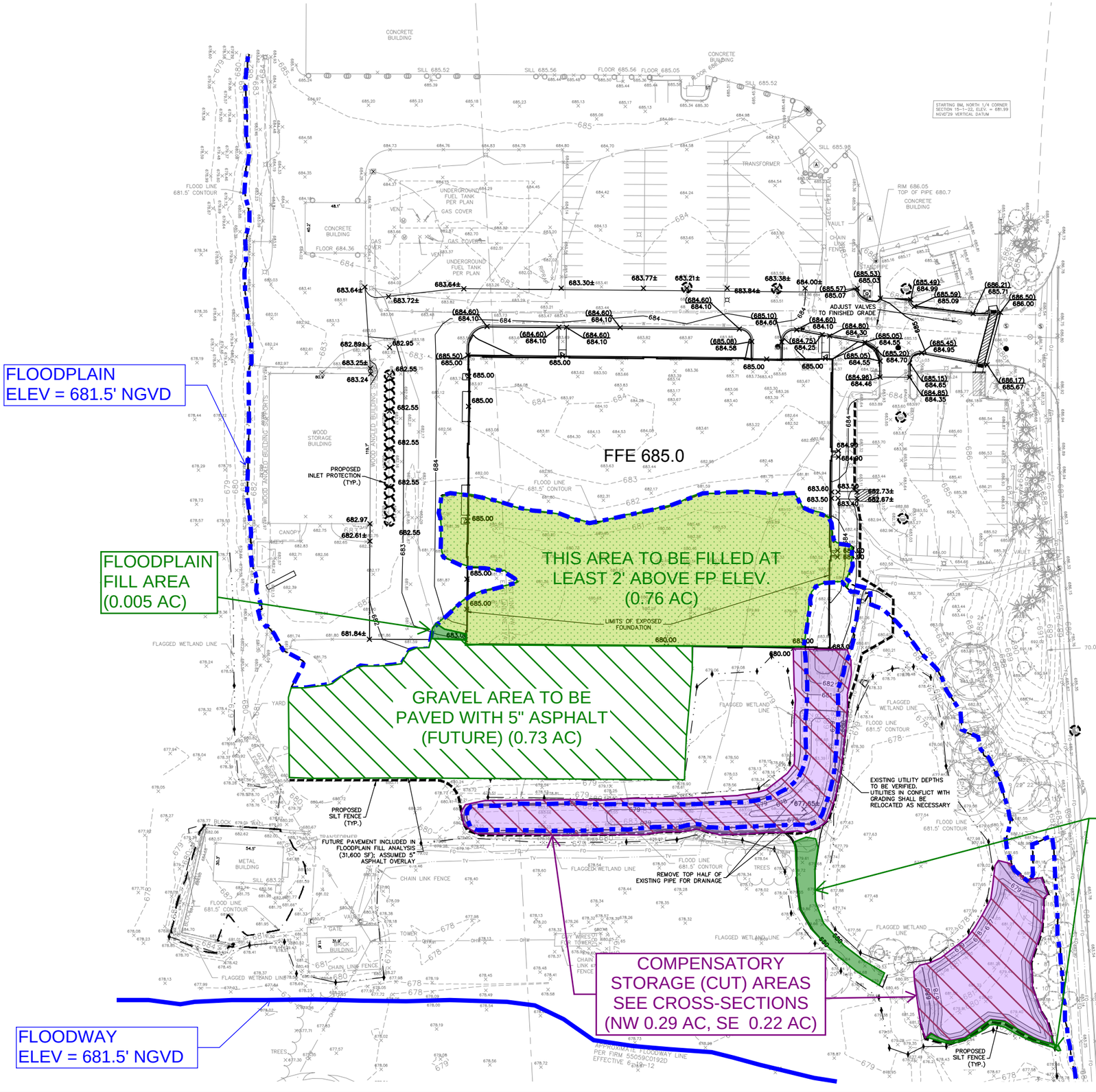
Address: 9915 39th Avenue

Pleasant Prairie, WI 53158
(City) (State) (Zip)

Phone: 262-925-6778

Fax: 262-925-6796

Date: April 7, 2016



GRAPHIC SCALE
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(IN FEET)

LEGEND

- PROPOSED PROPERTY LINE
- EXISTING SPOT ELEVATION
- EXISTING CONTOURS
- PROPOSED CONTOURS
- PROPOSED SPOT GRADES
- PROPOSED TOP OF CURB GRADE
- PROPOSED STORM INLETS / MANHOLES
- PROPOSED LOW SIDE CURB
- PROPOSED SILT FENCE
- PROPOSED INLET PROTECTION (TYPE A, B & C), SEE DETAIL SHEET
- EROSION MAT
- EXISTING FLOOD PLAIN LINE
- EXISTING WETLAND LINE
- EXISTING SANITARY SEWER LINE
- EXISTING STORM SEWER LINE
- EXISTING WATER MAIN LINE
- EXISTING ELECTRICAL LINE
- EXISTING LIGHT POLE WIRING
- EXISTING TELEPHONE LINE
- EXISTING FIBER OPTIC LINE
- EXISTING GAS LINE
- EXISTING HYDRANT
- EXISTING GATE VALVE
- EXISTING STORM SEWER MANHOLE
- EXISTING STORM SEWER INLETS
- EXISTING SANITARY SEWER MANHOLE
- EXITING LIGHT POLES
- EXISTING ELEC. AND TELE. PEDESTALS
- EXISTING GAS METER AND VALVES

FLOODPLAIN CALCS

1,500 CY APPROXIMATE FLOODPLAIN FILL VOLUME (FLOODPLAIN VOL. REMOVED)

1,615 CY APPROXIMATE FLOODPLAIN CUT VOLUME (FLOODPLAIN VOL. CREATED)

NOTE: VERTICAL DATUM IS NGVD 1929. CONVERSION TO NAVD88 IS -0.3'.

TOPOGRAPHIC SURVEY PROVIDED R.A. SMITH NATIONAL, DATED DECEMBER 09, 2015.

THE LOCATIONS OF EXISTING UTILITY INSTALLATIONS AS SHOWN ON THIS PLAN ARE APPROXIMATE. THERE MAY BE OTHER UNDERGROUND UTILITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN.

CONTRACTOR SHALL PROVIDE EROSION CONTROL FACILITIES IN ACCORDANCE WITH THE VILLAGE OF PLEASANT PRAIRIE EROSION CONTROL ORDINANCE, THE WISCONSIN DNR STORMWATER CONSTRUCTION AND POST CONSTRUCTION TECHNICAL STANDARDS, WDNR PERMIT CONDITIONS, AND THESE DOCUMENTS; THE MOST STRINGENT TO APPLY.

R.A.SMITH NATIONAL ASSUMES NO RESPONSIBILITY FOR DAMAGES, LIABILITY OR COSTS RESULTING FROM CHANGES OR ALTERATIONS MADE TO THIS PLAN WITHOUT THE EXPRESSED WRITTEN CONSENT OF R.A.SMITH NATIONAL

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Milwaukee Area (414) 259-1181
Hearing Impaired TDD (800) 542-2289
www.DiggersHotline.com

DATE	DESCRIPTION

R.A. Smith National
Beyond Surveying and Engineering
www.rasmithnational.com

NEW DPW BUILDING-PRANGE CENTER
VILLAGE OF PLEASANT PRAIRIE, WI

GRADING, EROSION CONTROL & PAVING PLAN

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R.A. Smith National, Inc.

DATE: 03/25/16
SCALE: 1" = 40'
JOB NO. 1150610
PROJECT MANAGER: KRISTEN J. BELAN, P.E.
DESIGNED BY: CLR
CHECKED BY: RJY

SHEET NUMBER
C300

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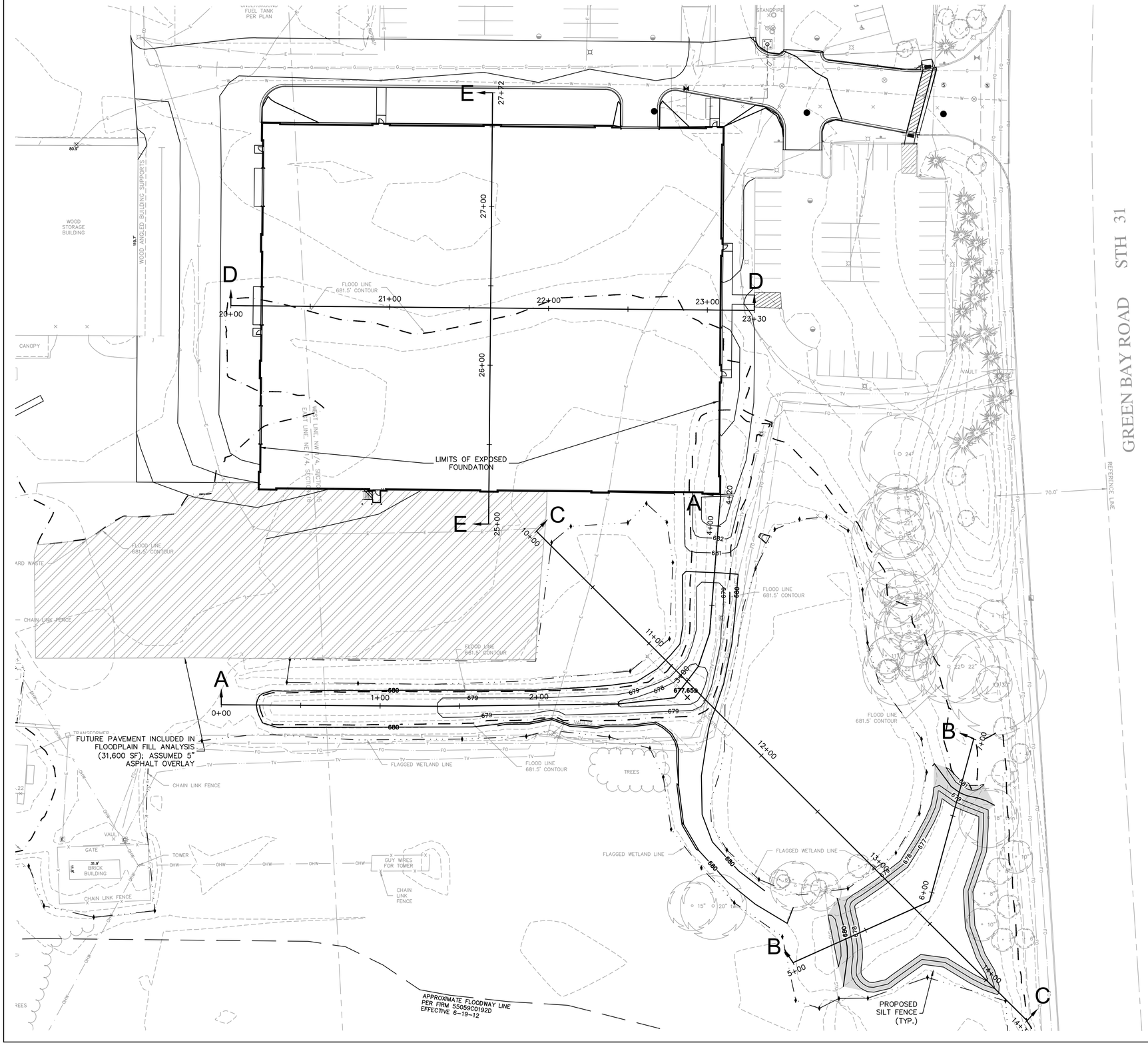

GRAPHIC SCALE

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(IN FEET)

LEGEND

- PROPOSED PROPERTY LINE
- 000.00 — EXISTING SPOT ELEVATION
- 000 — EXISTING CONTOURS
- 000 — PROPOSED CONTOURS
- 0.00 — PROPOSED SPOT GRADES
- (0.00) — PROPOSED TOP OF CURB GRADE
- PROPOSED STORM INLETS / MANHOLES
- EROSION MAT
- EXISTING SANITARY SEWER LINE
- EXISTING STORM SEWER LINE
- EXISTING WATER MAIN LINE
- EXISTING ELECTRICAL LINE
- EXISTING LIGHT POLE WIRING
- EXISTING TELEPHONE LINE
- EXISTING FIBER OPTIC LINE
- EXISITING GAS LINE
- EXISTING HYDRANT
- EXISTING GATE VALVE
- EXISTING STORM SEWER MANHOLE
- EXISTING STORM SEWER INLETS
- EXISTING SANITARY SEWER MANHOLE
- EXITING LIGHT POLES
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DATE	DESCRIPTION

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NEW DPW BUILDING-PRANGE CENTER
VILLAGE OF PLEASANT PRAIRIE, WI

GRADING, EROSION CONTROL & PAVING PLAN

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R.A. Smith National, Inc.

DATE: 03/25/16
SCALE: 1" = 30'
JOB NO. 1150610
PROJECT MANAGER: KRISTEN J. BELAN, P.E.
DESIGNED BY: CLR
CHECKED BY: RJY

SHEET NUMBER
EX-001

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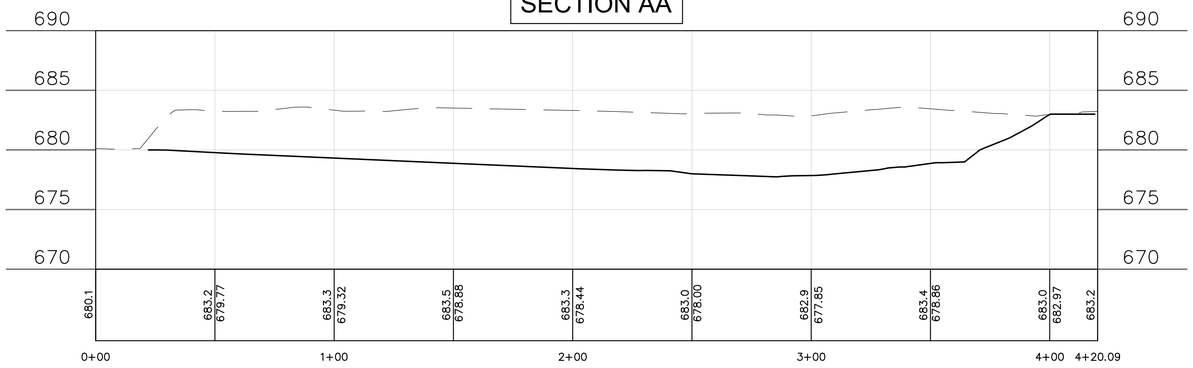
SECTION AA



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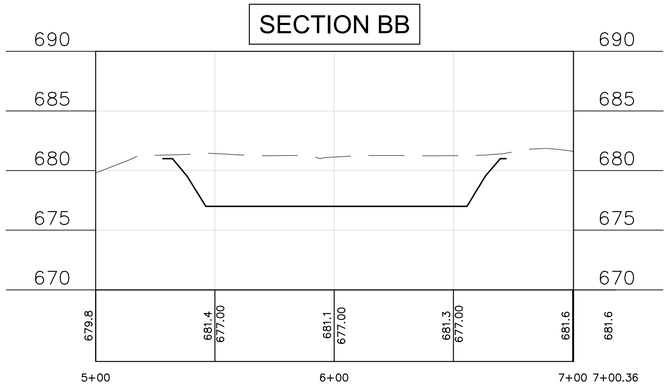
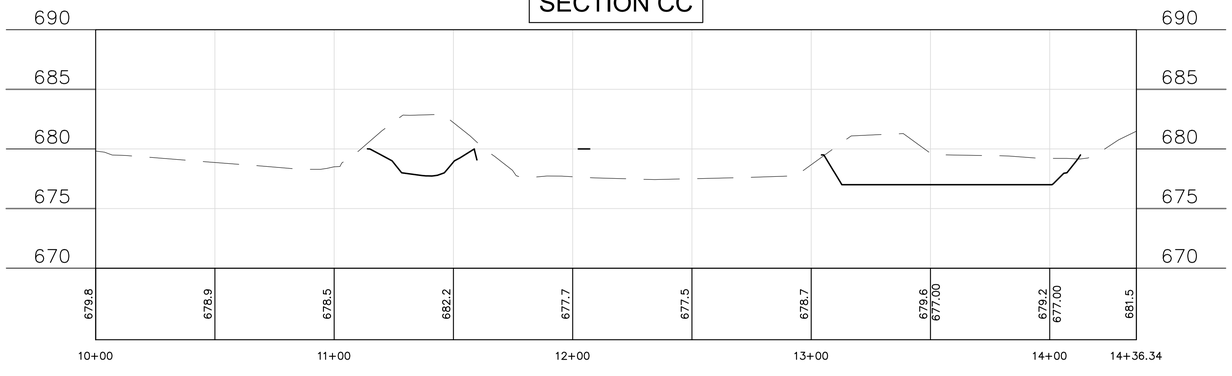


SECTION CC



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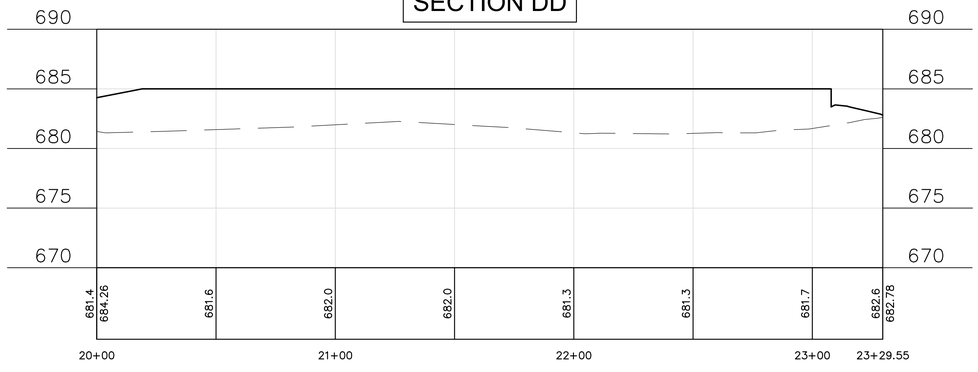
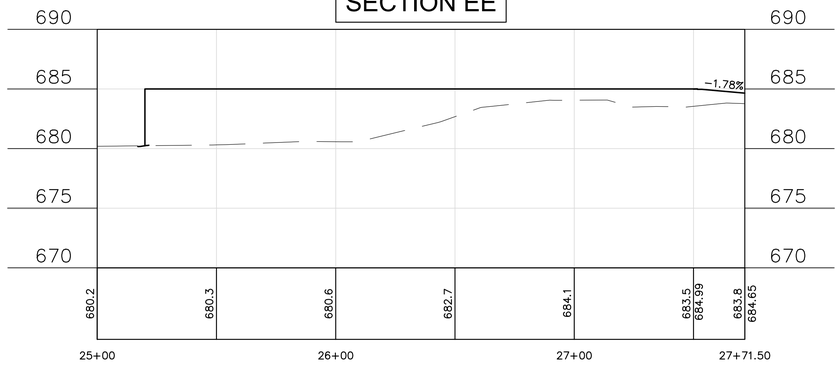


SECTION EE



GRAPHIC SCALE
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(IN FEET)

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TOPOGRAPHIC SURVEY PROVIDED R.A. SMITH NATIONAL, DATED DECEMBER 09, 2015.

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DESCRIPTION	DATE

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NEW DPW BUILDING-PRANGE CENTER
VILLAGE OF PLEASANT PRAIRIE, WI

GRADING, EROSION CONTROL & PAVING PLAN

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R.A. Smith National, Inc.

DATE: 03/25/16
SCALE: 1" = 30'
JOB NO. 1150610
PROJECT MANAGER: KRISTEN J. BELAN, P.E.
DESIGNED BY: CLR
CHECKED BY: RJY

SHEET NUMBER
EX-002

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C. **PUBLIC HEARING AND CONSIDERATION OF A CONDITIONAL USE PERMIT (INCLUDING SITE AND OPERATIONAL PLANS)** for the request of John Steinbrink, Jr. Public Works Director, agent for Village of Pleasant Prairie owner of the property located at 8000 128th Street, for the proposed Residential Recycling Center. This facility is the Village's new residential compost site that is being relocated from the Roger Prange Municipal Center Building site.

Recommendation: Village staff recommends that the Plan Commission approve the Conditional Use Permit including Site and Operational Plans subject to the comments and conditions of the Village Staff Report of November 9, 2015.

VILLAGE STAFF REPORT OF MAY 9, 2015

CONSIDERATION OF A CONDITIONAL USE PERMIT (INCLUDING SITE AND OPERATIONAL PLANS) for the request of John Steinbrink, Jr. Public Works Director, agent for Village of Pleasant Prairie owner of the property located at 8000 128th Street, for the proposed Residential Recycling Center. This facility is the Village's new residential compost site that is being relocated from the Roger Prange Municipal Center Building site.

PUBLIC HEARING COMMENTS:

As a part of the hearing record, the Village staff has compiled a listing of findings, exhibits and conclusions regarding the petitioner's request as presented and described below:

Findings of Fact

1. The petitioner is requesting approval of a Conditional Use Permit including Site and Operational Plans to operate the Village of Pleasant Prairie Residential Recycling Center at 8000 128th Street. This facility is the Village's new residential compost site that is being relocated from the Roger Prange Municipal Center Building site. The property is referred to as the former 73-1 sewerage treatment facility site *(See **Exhibit 1** for a copy of the application and plans).*

2. The subject property is located in a part of the U.S. Public Land Survey Section 33, Township 1 North, Range 22 East, lying and being in the Village of Pleasant Prairie, Kenosha County, Wisconsin and further identified as Tax Parcel Number 92-4-122-333-0800.

3. As part of the 2016 Village budget, funds were allocated for the construction of an additional storage building at the Roger Prange Municipal Center. The storage building will provide indoor storage space for equipment used by the Public Works Department in order to better protect and prolong the life of the equipment. Because the new storage building is being constructed at the current compost site location, the Village is working to relocate the site to 8000 128th Street.

4. Currently the Village processes leaves, grass and branches into compost at the Prange site. The material is then hauled monthly to the 8000 128th Street processing site. The proposed plan is to have the residents drop off the material directly at the 8000 128th Street site. This will eliminate the need to haul the material in and out with large trucks. The new site will also accept other recyclable materials such as electronics, residential hazardous, oil, antifreeze, batteries, residential garbage and reciting, broken concrete and asphalt, tires, leaves, grass, branches, wood chips and compost.

5. Relocating the compost operations to the Residential Recycling Center will offer a cost savings that will partially offset a decrease in grant funding received from the State for recycling and hazardous waste elimination programs. In addition, relocating the compost operations will eliminate transportation costs for moving compost material from the old site to the new site and will then improve its efficiency for staff and residents. The move will also enable the Village to establish a waste transfer site in the future to consolidate transportation costs by hauling larger loads of non-recyclable materials to the landfill less often.

6. The existing 2,100 square foot electronics recycling building on the 8000 128th Street site will remain and a new 49 square foot check-in building will be constructed. The existing hazardous materials storage building will be relocated from the Prange site to the new site. (Hazardous materials include anything that is marked: Caution, Combustible, Corrosive, Danger, Flammable, Pesticide, Poison, Reactive, Toxic or Warning).

7. The existing residential compost site at 8600 Green Bay Road is expected to close at the end of business on Saturday, June 4th, and the new Residential Recycling Center is expected to open at 9:00 a.m. Monday, June 6th.

8. The facility is going to be open to the public (including deliveries or shipments) Monday-Friday from 9:00 a.m. to 7:00 p.m. and Saturday 7:00 a.m. to 4:00 p.m. During Monday-Friday one part time employee will be on-site and Saturday one full time and one part time employee will be on-site.

9. Access to the site will be from 128th Street (state line) from the south and a parking lot area will allow for up to 15 off-loading spaces and 9 loading spaces for residential trailers. The average daily number of trips is expected to be 100 per weekday with an anticipated maximum of 250 on Saturdays.

10. The property where the proposed facility is to be located is zoned I-1, Institutional District other non-impacted or non-developable portions of the site are zoned C-1, Lowland Resource Conservancy District and FPO, Floodplain Overlay District. No work is proposed with the wetland or 100-year floodplain on the property.

11. The 2035 Land Use Plan Map 9.9 of the Village Comprehensive Plan indicates this property is located within the Governmental and Institutional land use designation and the non-impacted environmental areas are located within Primary Environmental Corridor, Other Open Space with wetlands and 100-year floodplain land use designations.

    A refinement of the Land Use Plan is a Neighborhood Plan. Neighborhood Plans take into account the compatibility of existing and planned land uses, identifies how future land divisions and developments could occur, plans how access roadways to the land divisions should be provided and interconnected to existing roadways, examines the practicability of providing certain lot layouts, road layouts, parkways, open space areas, park areas, preservation areas, public community facilities, infrastructure improvements and municipal services to service the area. This property is located within the Green Hill Farms Neighborhood Plan area.

    As recommended as part of the Implementation Element (Chapter 10 of the Village Comprehensive Plan), Neighborhood Plans shall be revised and updated to ensure that these detailed plans are consistent with this Comprehensive Plan. If there is a conflict between the a specific Neighborhood Plan and the Comprehensive Land Use Plan Map 9.9, the Comprehensive Plan Land Use Plan shall govern and the Neighborhood Plan shall be amended.

    With that being said, the proposed Residential Recycling Center is allowed with a Conditional Use Permit in the I-1, District, which is consistent with the Comprehensive Land Use Plan; however the Green Hill Farms Neighborhood Plan needs to be amended. The Plan Commission action this evening is subject to the approval of the Neighborhood Plan Amendment being considered at the May 23, 2016 Plan Commission meeting. (See ***Exhibit 2*** for the notice of the public hearing.)

12. Notices were sent to adjacent property owners via regular mail on April 21, 2016 and notices were published in the Kenosha News on April 25, 2016 and May 2, 2016.

13. The petitioner was e-mailed a copy of this memo on May 6, 2016.

14. According to the Article XVIII of the Village Zoning Ordinance, the Plan Commission shall only approve a Conditional Use Permit if they find after viewing the findings of fact, the application and related materials and any information presented at the hearing that the project as planned, will not violate the intent and purpose of all

Village Ordinance and meets the minimum standards for the granting of a Conditional Use Permit. Furthermore, the Plan Commission shall approve any site and operational plan application if they find in the decision that the application, coupled with satisfaction of any conditions of approval, will comply with all applicable Village ordinance requirements and all other applicable Federal, State or local requirements relating to land use, buildings, development control, land division, environmental protection, sewer service, water service, noise, storm water management, streets and highways and fire protection.

Village Staff Conclusions and Recommendation: (to be read out loud)

The Village staff has determined that based upon the foregoing information presented in the application, at the public hearing and the memorandum from the Fire & Rescue Department that the project meets the following standards for granting a Conditional Use Permit and Site and Operational Plan approval in that the project:

- The project does not impede the traffic patterns on the site or cause traffic congestion or traffic circulation problems and the traffic patterns on the site do not hinder, harm or distract the provisions of public services.
- The project does not impair an adequate supply of light and air to the adjacent properties.
- The project does not increase danger of fire, insofar as the danger of fire does not exceed the capabilities of the Village Fire & Rescue Department.
- The project does not create storm water flooding or drainage, create obnoxious odors, problems or otherwise endanger the public health, safety or welfare.
- There are no existing identified hazard, danger, harm, noxiousness, offensiveness, nuisance or other adversity or inconsistency that would endanger the public's health, safety or welfare related to the proposed use.
- The proposed and applied for use on this particular parcel is not inherently inconsistent with the I-1 District in which it is located or the adjoining zoning districts and land uses.

Based on the foregoing information, the Village staff recommends that if the Plan Commission determines that the petitioner has met the specific standards for granting of a Conditional Use Permit and Site and Operational Plan approval as specified above; then approval of the Conditional Use Permit and Site and Operational Plan shall be approved subject to the following conditions:

1. **The following additional conditions shall be included in the Conditional Use Grant approval document :**
    a. The owner shall comply with all provisions of the Site & Operational Plan approvals, including compliance with the Village Performance Standards.
    b. No uses shall be conducted in such a way as to constitute a public or private nuisance or to violate any of the performance standards set out in Section 420-38 of the Village Zoning Ordinance.
    c. Due to the nature of the facility, curb and gutter is not being required for the parking lot area. Certain areas will be gravel for material storage with other areas open for public access being paved.
    d. The entrance sign as proposed shall be installed prior to occupancy with approval of a sign permit.

e. The site lighting shall be shielded and directed downward. The lights shall be turned off one hour after the site closes. A light may remain on for security reasons if the need arises.

f. Security cameras are required to be installed at the entrance off 128th Street. Additional security cameras may be installed on site with the live feed back to the Police Department monitors.in the future if needed.

g. The site shall remain fully fence with a gate at the entrance on 128th Street. Emergency access to the site 24/7 shall be achieved via Knox padlock or Knox key switch on the main gate to the facility.

h. There shall be continuous access to combustible storage areas and buildings once Fire & Rescue units are on site; roads can't be blocked or obstructed.

i. Landscaping and fencing adjacent to the residential area to the west shall be maintained. Practices at the site shall minimize and shield the noise, smell, and visual appearance of the site from the adjacent single family residential lots to the west.

j. The site shall not be used for any parking (neither overnight nor during the day) of junked/inoperable/dismantled/unlicensed vehicles. All junked/inoperable/ dismantled/unlicensed vehicles that are parked overnight will be issued citations.

k. At no time shall the site be used to sell or advertise any vehicles that are "for sale".

l. No vehicular parking will be permitted in driveways, maneuvering lanes, fire lanes or on landscaped areas.

m. There shall be no outside banners, strings of pennants, flags, inflatable devices (e.g. balloons) or streamers affixed or attached to the building(s), light poles, ground landscaping, driveways etc. (e.g. sale flyers, banners, other temporary signage and inflatable signage shall not be allowed). Certain exceptions to temporary signage restrictions are permitted by Village permit (e.g. for grand openings).

n. This Conditional Use Grant and all of its related conditions shall become effective upon the execution and recording of said document and shall constitute an effective covenant running with the land.

o. Construction and operation of the uses granted shall be in strict conformity to the approved plans filed in connection with the petition for this permit. Violations of these conditions may result in the revocation of the conditional use permit or zoning violation prosecution, or both.

p. All required permits shall be obtained from the Village prior to commencing work. Reminder that an electrical permit for the job trailer and DSIS system will be required from the Building Inspection Department and a fence permit for temporary construction fencing will be required from the Community Development Department.

q. Operation of the use granted herein shall be in strict conformity to both plans and documents filed and approved in connection with the petition for Site and Operational Plan and Conditional Use Permit approvals. Any violation of these conditions may result in the revocation of the approval or zoning violation prosecution, or both.

r. The Conditional Use Grant is subject to amendment and termination in accordance with the provisions of the Village Zoning Ordinance.

s. All plans and the proposed and applied for use shall conform to applicable Village Ordinance requirements, and to all other applicable local, County, State and Federal requirements relating to land use, buildings, development control, land division, environmental protection, sewer service, water service, storm water management, noise, streets and highways and fire protection; and in the event of conflicting requirements or standards, the most restrictive shall apply.

2. **Upon approval of the following is required:**

a. The Village will prepare the required Conditional Use Grant Document to be executed by the property owner prior to the issuance of the required permits. After the document is executed, it shall be recorded at the Kenosha County Register of Deeds office at the owner's expense.

b. The Erosion Control Permit Application (EC1604-001) for the on-site grading work and construction of the detention basin and parking areas can be issued

c. The Commercial Building Permit applications (for the new buildings and the gate (fence)) shall be submitted with the required plans.

d. A Sign Permit application for the installation of the entrance sign shall be submitted. The Sign (with address) shall be installed prior to occupancy.

3. **General Site and Occupancy Conditions:**

a. Prior to work commencing on the site, all required permits shall be issued by the Village, all required erosion control measures shall be in place and re-inspected on the site.

b. Prior to occupancy, an as-built record drawing of the site improvements shall be submitted to the Engineering Department. Information shall conform to the Village's electronic format requirements. In addition, a paper copy prepared and stamped by the Engineer of Record for the project shall be submitted.

c. This project shall be in compliance with the Village Land Division and Development Control Ordinance, the Village Municipal and Zoning Codes, the Village Construction Site Maintenance and Erosion Control Ordinance, Kenosha County Health Department Ordinances and the State of Wisconsin Statutes.

Exhibit 1

VILLAGE OF PLEASANT PRAIRIE
SITE AND OPERATIONAL PLAN
AND CONDITIONAL USE PERMIT ZONING APPLICATION

USE THIS FORM FOR:
Tenants/Use changes proposing to occupy 50% or more of an existing commercial/industrial building.

To construct a **new** or addition to principal or accessory structure.

Use requires a Conditional Use Permit.

FOR OFFICE USE ONLY
Application Filed on _____ 20__
Preliminary Determination of Completeness on: _____ 20__
Revised Plans Submitted: _____ 20__
☐Public Hearing Required: Hearing Date: _____, 20__ Published on: _____ and _____, 20__ Notices sent on: _____, 20__
Approved by ☐ Plan Commission on _____ 20__ ☐Zoning Administrator on _____ 20__
Denied by ☐ Plan Commission on _____ 20__ ☐Zoning Administrator on _____ 20__

SECTION 1: GENERAL INFORMATION

NAME OF BUSINESS: Village of Pleasant Prairie

SITE ADDRESS: 8000 128th St

BRIEF PROJECT DESCRIPTION: Residential Recycling Center

PROPOSED NUMBER OF FULL TIME EMPLOYEES: 1 on weekends

PROPOSED NUMBER OF PART-TIME EMPLOYEES: 1

SITE SIZE: _____ **sq. ft.** _____ **acres**

PROPOSED BUILDING SIZE: _____ **sq.ft. HEIGHT:** _____ **ft.**

PROPOSED ADDITION SIZE: _____ **sq.ft. HEIGHT:** _____ **ft.**

LEGAL DESCRIPTION: _____

TAX PARCEL NUMBER(S) : 92-4-122-333-0800

CURRENT ZONING CLASSIFICATION(S) OF THE PROPERTY: _____

1. **Is a zoning map amendment proposed with this project?** ☐ **Yes** ☒ **No**
   - **If yes,** proposed Zoning Classification(s): _____
2. **Is a zoning text amendment proposed with this project?** ☐ **Yes** ☒ **No**
   - **If yes,** provide a copy of the proposed text amendment with this application

3. **If property is zoned M-1 or M-2, indicate the Occupancy Type pursuant to the Use and Occupancy Classification specified in Chapter 3 of the 2006 International Building Code (2006 IBC). Include all that apply and associated square footage for each classification:**

N/A

- ☐ **Factory Group F-1 (Moderate-hazard)** _____ sq ft
- ☐ **Factory Group F-2 (Low-hazard)** _____ sq ft
- ☐ **Storage Group S-1 (Moderate-hazard)** _____ sq ft
- ☐ **Storage Group S-2 (Low-hazard)** _____ sq ft
- ☐ **Business Group B** _____ sq ft
- ☐ **High-Hazard Group H*** _____ sq ft
- ☐ **Other** _____ _____ sq ft
- ☐ **Other** _____ _____ sq ft

****If Use and Occupancy Classification is High-Hazard Group H please provide a detailed written narrative that explains the specific use, quantity of storage and handling of the high hazard materials along with appropriate MSSD sheets with this application.***

PUBLIC SERVICES:

1. **Is the property serviced by Public Sanitary Sewer?** ☐ **YES** ☒ **NO**
   - **If no,** the closest public sewer is located at _____
2. **Is the property serviced by Public Water?** ☐ **YES** ☒ **NO**
   - **If no,** the closest public water is located at _____
3. **Maximum number of gallons/minute of water expected to be used per day is:** N/A .

THIS APPLICATION IS FOR A: (check one)

- ☐ **Preliminary Site and Operational Plan:** An applicant may apply for preliminary site and operational plan approval in connection with an erosion control permit application for early mass grading, or in connection with an early foundation permit, or for other good cause shown
- ☒ **New Site and Operational Plan**
- ☐ **Amendment to an existing Site and Operational Plan**
  - **Date of initial site and operational plan approval:** _____
  - **Date of each approved amendment:** _____

SECTION 2: EXISTING USES AND BUILDINGS ON THE SITE

Are there any existing buildings on the site? ☒ **YES** ☐ **NO**

- **If yes,** provide an attachment that explains the current uses on the property and current uses in each building and if the use(s) is proposed to continue; and the gross floor area and height of each building.
- **If no,** what is the current use of the property? _____

SECTION 3: PHOTOGRAPHS

Standard-sized photographs (not Polaroid) showing all aspects of the site (e.g. locations of proposed improvements, bodies of navigable water, wetlands, wooded areas, etc.) and of the exterior of structures or other site improvements, together with a statement regarding each photograph, which includes the date the photograph was taken, the location from which it was taken, the direction in which the camera was pointed, and a description of what is shown in the photograph. With respect to all existing signs, the applicant shall file photographs of all existing signs and shall specify in the written statement accompanying each such photograph and show the dimensions of such sign. Digital images are acceptable.

SECTION 4: CONDITIONAL USE

1. **Does the proposed project require a Conditional Use Permit?** ☐ **YES** ☒ **NO**
   - **If no** then skip to Section 5.
   - **If yes,** then continue with this Section.
2. **Are you amending an existing Conditional Use Permit?** ☐ **YES** ☒ **NO**
   - **If yes,** provide a copy of the Conditional Use Grant Document you are proposing to amend.
   - **If no,** continue with this Section.
3. If you answered **YES** to either question 1 or 2 above then this application shall include information as to how the proposed project will not impair an adequate supply of light and air to adjacent properties; increase danger of fire; cause traffic congestion or traffic circulation problems; create storm water flooding or drainage; create obnoxious odors, problems or otherwise endanger the public health, safety or welfare; will not hinder, harm or distract the provision of public services; and that the proposed project is not inherently inconsistent with either the district in which it is located or adjoining districts or neighborhoods as required pursuant to the Village Zoning Ordinance.

SECTION 5: NON-CONFORMING USE

1. **Is any use on the site a nonconforming use?** ☐ **YES** ☒ **NO**
   - **If no,** then skip to Section 7.
   - **If yes,** then continue with this section.
2. If you answered **YES** to question 1 above, prima facie proof of each element of legal nonconforming use status shall be submitted to the Village with this application (i.e. that the nonconforming use was legal in its inception, that the use was active and actual and not merely casual, occasional, incidental or accessory when it became nonconforming, that the use has been continuous with no gap of 12 or more consecutive months since it became nonconforming, that no building or structure housing the nonconforming use has been structurally repaired or altered to the extent of fifty (50) percent or more of its assessed value since the use became nonconforming, and that the use has not been changed in nature or physically extended or expanded since becoming nonconforming).

SECTION 6: PERFORMANCE STANDARDS

Pursuant to the Village Zoning Ordinance, any application for a permit under this ordinance or any use subject to the regulations and standards set forth in the Village Zoning Ordinance shall be accompanied by a sworn statement by the owner of the subject property that said property and use will be operated in accordance with the performance standards set forth in Section 420-38 of the Village Ordinance. Continued compliance with the regulations and standards is required. Violations of such standards shall remedied as required by the Village Zoning Ordinance.

No land or building in any district shall be operated in such a manner so as to create any dangerous, injurious, noxious or otherwise objectionable fire, explosive or other hazard; noise or vibration, smoke, dust, dirt or other form of air pollution; water pollution; electrical, radioactive or other disturbances; glare; or other substance, condition or element (referred to herein as "dangerous or objectionable elements") in such amount as to adversely affect the surrounding area or premises; provided that any use permitted by this ordinance may be undertaken and maintained if it conforms to the regulations of this subsection limiting dangerous and objectionable elements at the specified point or points of the determination of their existence.

The Village may require additional information be submitted to ensure that the Village Performance Standards are being met.

SECTION 7: PLAN COMPONENTS

The application shall include a list of all documents, materials or information that are attached to and a part of the application form. Submit eight (8) full-sized and one (1) set reduced to 11" x 17" of all plans and other attachments shall be included as part of this application, except if a component has been waived or deferred in writing by the Village Zoning Administrator. **For specific details related to each of the required information and plans see the attachment entitled "*Plan Components and Related Standards*" in Section 420-57 of the Village Zoning Ordinance.**

- ☑ Application—Applicant, Site, Use, Project and Plan Information
- ☑ Application fee
- ☑ Operational plan
- ☑ Title sheet
- ☑ Survey
- ☑ Site plan
- ☑ Grading and drainage plan
- ☑ Building and fire protection plans
- ☑ Lighting plan
- ☑ Landscape and open space plan
- ☑ Signage plan
- ☑ Industrial/commercial waste survey
- ☑ Performance standards compliance
- ☑ Additional requirements, as determined by the Village Zoning Administrator, other appropriate Village staff members, or the Village Plan Commission, as appropriate.

Two or more plans may be combined, provided that all of the information submitted on the combined plan is clearly legible, but in no case shall the combined plans fail to show any of the information required for each individual plan as described below, unless such information is waived or deferred pursuant to the Zoning Ordinance.

SECTION 8: SIGNATURES

I,(We), hereby certify that all the above statements and all attachments submitted herewith are true and correct to the best of my knowledge. In addition I, (we) understand the requirements and procedures for Site and Operational Plan/Conditional Use Permit approval.

PROPERTY OWNER:

Name: Village of Pleasant Prairie
(Please Print)

Signature: Same as Applicant

Address: _____

_____
(City) (State) (Zip)

Phone: _____

Fax: _____

E-mail: _____

Date _____

APPLICANT:

Name: John Steinbeck Jr
(Please Print)

Signature: _____

Address: 8600 - Green Bay Rd

Pleasant Prairie WI 53158
(City) (State) (Zip)

Phone: 262-925-6768

Fax: _____

E-mail: JSteinbeckPE@RoadRunner.com

Date: 4-13-16

Is the applicant the owner of the property? ☐ **YES** ☐ **NO**

If no, then either proof of the applicant's legal interest in the subject real property (e.g. accepted offer to purchase, lease, etc., which may be appropriately redacted to preserve confidential information) or written authorization signed by the owner for the applicant to act as the owner's agent in connection with the application shall be included with the application.

DEVELOPER (if Applicable)

Name: _____
(Please Print)

Signature: _____

Address: _____

_____
(City) (State) (Zip)

Phone: _____

Fax: _____

E-mail: _____

Date _____

USER OR OCCUPANT OF SITE:

Name: _____
(Please Print)

Signature: _____

Address: _____

_____
(City) (State) (Zip)

Phone: _____

Fax: _____

E-mail: _____

Date: _____

VILLAGE OF PLEASANT PRAIRIE

RESIDENTIAL RECYCLING CENTER

SITE AND OPERATIONAL PLAN REVIEW

Issued April 12, 2016

- Section 1 – Response to Review Comments
- Section 2 – Original Application

SECTION 1 – RESPONSE TO REVIEW COMMENTS

VILLAGE OF PLEASANT PRAIRIE – RESIDENTIAL RECYCLING CENTER

SITE AND OPERATIONAL PLAN REVIEW

Issued April 12, 2016

Please find below Village review comments and responses to review comments. Responses to Village review comments are indicated in ***"BOLD ITALIC FONT"***

The following are general comments related to the proposed Village Compost Site at former 73- 1 site and required approvals for this project.

Required Approvals:

1. A Neighborhood Plan Amendment (Comprehensive Plan Amendment) will be required. The Green Hills Farms Neighborhood Plan depicts a Village Park (green) not a compost site for the property. The Comprehensive Land Use Plan Map does depict this site for Institutional Uses and the site is zoned appropriately...1-1, Institutional. The Neighborhood Plan Amendment requires a 30 day notice and a public hearing before the Plan Commission and final adoption by the Village Board (Ordinance.)

   Jean, Can you take the lead in this one. Let me know what you need from me. The site will be called "Residential Recycling Center". Please reference this name moving forward.

2. Site and Operational Plans with a Conditional Use Permit is required to be approved by the Plan Commission. This will require detailed engineering and building plans with the required application for Consideration by the Plan Commission (public hearing required)

   Detailed engineering plans are attached as Exhibit "B". There are no building plans.

3. It is my understanding that this project will not involve any floodplain fill or wetland impacts. If plans change then appropriate permits and approvals shall be obtained.

   There will be no Floodplain or wetlands impacts, See attached Exhibit "B"

4. Upon Plan Commission approval, the property permits (building/zoning/erosion control) can be obtained.

General Comments regarding the use and layout:

1. Parking lot and site shall be provided with a concrete curb and gutter profile, unless this requirement is waived by the Village.
   We are not planning to have Curb and gutter for this project. We need to have the curb requirement waived.

2. Detailed parking lot lighting specifications shall be provided for the parking lot lights. The maximum height of the parking lot site lighting should be 20 feet from grade. The lighting shall be shielded and directed downward. Will the lighting be on all evening or powered down in

respect for the adjacent neighbors? ***The lights will not impact the abutting residents on 85th Ave. They will be off one hour after the site closes.*** Are any lights proposed to be located on the driveway extending north from Russell Road? ***They will be installed as a future capital project approved by the Village Board.*** LED lights are recommended. ***LED lights will be used for this project.***

3. Security cameras should be considered within the compost site as well as at the driveway entrance/exit. Security cameras will help deter dumping on non-scheduled drop-off times. While it is not required, staff recommends that there be security cameras installed pursuant to the DSIS requirements — with the live feed back to the Police Department monitors. ***There will be a security camera installed at the entrance off Russel Road. The rest of the site will have them installed with a live feed as a future capital project as approved by the Village Board.***

4. For additional security, the installation of a fence/gate at/near the entrance drive is recommended (there may already be an existing gate). ***The site is already fully fenced. Additionally, we will be installing a gate at the entrance of Russell Road.***

5. Access to the site 24/7 shall be achieved via Knox padlock or Knox keyswitch on the main gate to the facility. ***We will daisy chain a lock for the fire department. We will need the Fire Department to provide two locks.***

6. There shall be continuous access to combustible storage areas and buildings once Fire & Rescue units are on site; roads can't be blocked or obstructed. **The site will be available to the Fire Department 24-7.**

7. Are there areas being fenced in on the south side to prevent future expansions into environmentally significant areas? ***The site is currently completely fenced.***

8. Is a gated fence area proposed near the State line (Russell Road) entrance to prevent dumping on non-scheduled drop-off times? ***There is a gate scheduled to be installed at the entrance near the State line.***

9. Submit actual photographs of the site and existing buildings. What will the residents on 85th Avenue see from their backyards? Berming, landscaping on the berm and fencing should be provided to the west of the drop off site area to help shield the noise, smell, and visual appearance of the site from the adjacent single family residential lots to the west. ***There is a fence, berm and trees shielding the site to the West. See attached pictures (Exhibit "E"). The same management practices will be in place for the residential recycling center as the existing compost processing center. There are no current noise, odor, or visual issues from the residents.***

10. How are materials being contained in spaces? ***Concrete enclosures.*** Concrete enclosures? ***Yes***

11. During the week only one, part time employee will be at the site-this is a somewhat secluded site for having only one, part time employee at the site. ***There are no current local, state or federal regulations requiring more than one employee at this site during the week. We will staff as originally planned.***

12. The entry sign is a considerable distance from the adjacent roadway- a 15 foot minimum setback is required. Consideration should be given to enlarge the sign so that it is visible from Russell Road. If another Official Village government sign is proposed within the right-of-way of 128th Street a permit is required to be obtained from Lake County permit. ***Lake County has denied our request to have a sign in their ROW. The sign will be visible from 128th Street as shown on the site plan. Any additional larger signage will be a future capital project as approved by the Village Board.***

13. Provide directional signage details (there are size and height restrictions for directional signage) and all pavement markings on a plan. ***Please see the attached On-Site directional signage plan, Exhibit "F".***

14. How is storm water drainage for the site being handled? The site plans should show the proposed retention pond location. A detailed civil grading and grading plan shall be provided for review and approval. ***Site storm water is conveyed to a detention basin by combination of swale and/or storm sewer. Please see attached grading sheet (Exhibit B).***

15. Show the field delineated flood plain and floodway areas on the drawings/civil plans. ***Please see attached Exhibit B for which identifies Flood plain elevation.***

16. What is the total impervious surface area being provided? ***Please see attached annotated paving exhibit, (Exhibit C).***

    - ***Area of asphalt pavement is approximately 42,553 SF.***
    - ***Area of concrete pavement is approximately 4,386 SF.***
    - ***Area of gravel is approximately 4,368 SF.***
    - ***Total Site area is approximately 44.8 Acres.***

17. Typically gravel parking/turnaround areas are not permitted. The Fire Chief would need to approve, if the areas are to be left as gravel. How is storm water being provided and contained on the site with such large gravel areas? ***Gravel areas indicated in the site plan are not intended to provide parking or turnaround areas for the public. Paved areas are configured for vehicle circulation without runaround areas. Gravel areas are provided for a clean stable area for material storage. A storm water detention basin is provided to accommodate runoff from the developed site.***

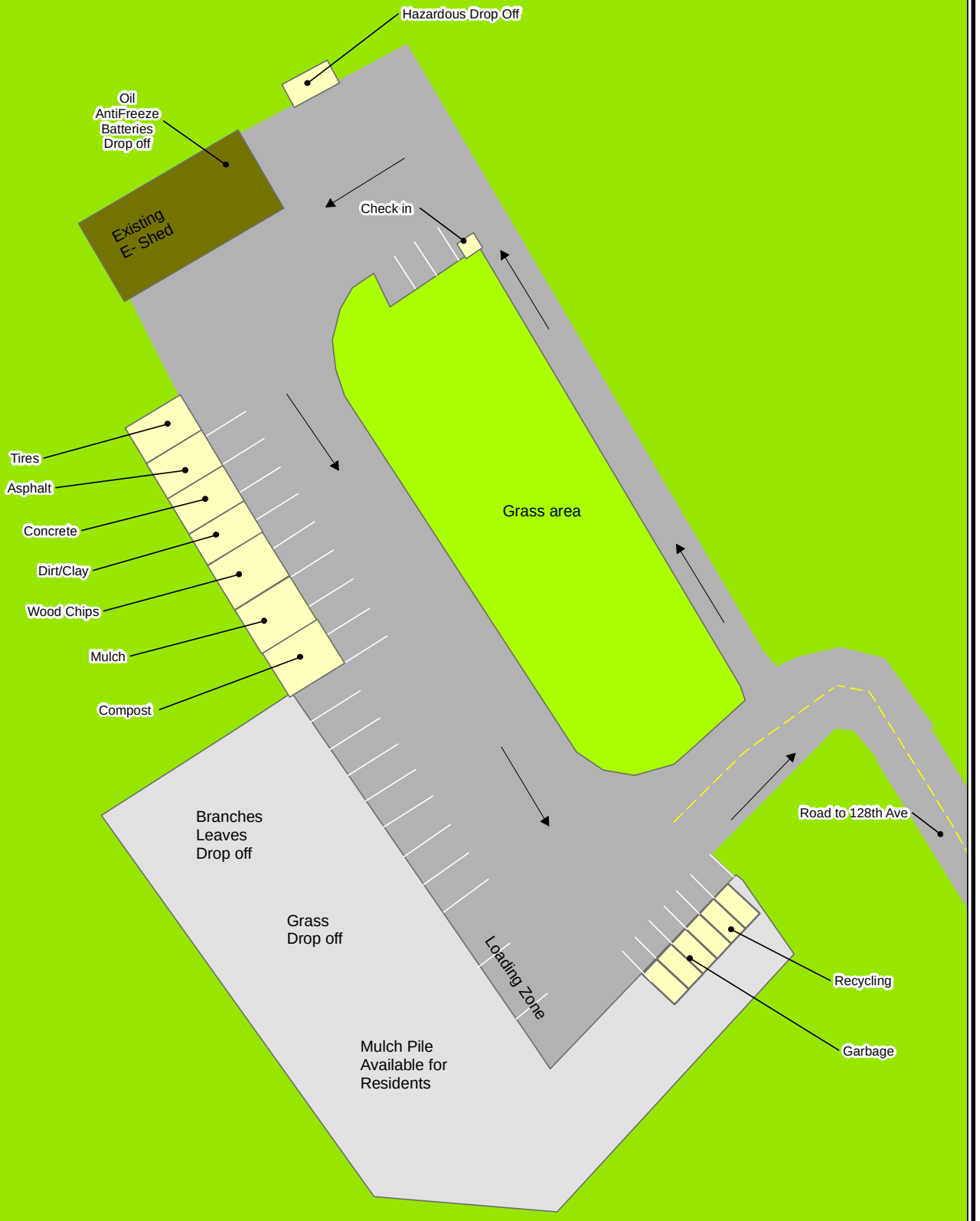
18. How and where to residents drop of materials — show back up or loading areas. ***Shown on the site plan, EXHIBIT "A".***

19. Sandro has been working with John on this with respect to the electrical design and has recommended changes on the site. ***Correct.***

20. Describe in detail (in writing) the compost operations in the Operational Plan. How will noise and smells be minimized for the abutting neighborhood? ***The site is shielded from noise with a large berm and 50 foot tall pine trees to the west. The Village staff will use the same management practices for the residential recycling center as currently used for the Compost processing facility. We have no current noise or odor issues with residents on 85th Ave.***

EXHIBITS TO APPLICATION

- ***EXHIBIT "A":*** *Residential Recycling Center, Site plan*
- ***EXHIBIT "B":*** *Engineering, Grading and Erosion Control plan*
- ***EXHIBIT "C":*** *Paving Exhibit*
- ***EXHIBIT "D":*** *Access Drive Exhibit*
- ***EXHIBIT "E":*** *Photo index and Photos*
- ***EXHIBIT "F":*** *On-Site Signage Plan*
- ***EXHIBIT "G":*** *Offsite Signage Plan/detail*



Village of Pleasant Prairie
Department of Public Works

0 5 10 20 30 40 Feet

EXHIBIT "A"
Residential Recycling Center Site Plan

1 inch = 37 feet

Sheet No.	01
73-1 Compost Site Layout	
Drawn By:	John Steinbrink
Checked by:	
Date:	04/11/16

P:\P0200110_PLEASANT PRAIRIE - COMPOST SITE 73-1\11-0 DRAWINGS\11-14 SOURCE DWGS\P0200110 - PROPOSED SURFACE BF ..DWG BRANDON L. FLUNKER SAVE TIME 2/2/2016 11:05:08 AM PLOT DATE 2/2/2016 11:05 AM

EROSION CONTROL NOTES:

1. ANY DEVIATION FROM THESE NOTES BY THE CONTRACTOR MUST BE APPROVED BY THE WISCONSIN DEPARTMENT OF NATURAL RESOURCES (WDNR) AND ENGINEER.
2. CONTRACTOR MUST CONFORM TO ANY STATE, FEDERAL, COUNTY, AND CITY PERMITS AND TO THE CONDITIONS INCLUDED IN THE ENGINEER'S PLANS.
3. EROSION CONTROL DEVICES SHALL CONFORM TO THE LATEST EDITION OF THE WISCONSIN DNR TECHNICAL STANDARDS AND THE WISCONSIN DOT PRODUCT ACCEPTABILITY LIST (PAL).
4. ALL ACTIVITIES ON THE SITE SHALL BE CONDUCTED IN A LOGICAL SEQUENCE TO MINIMIZE THE AREA OF UNSTABILIZED SOIL AT ANY ONE TIME.
5. INSTALL INLET FILTERS PRIOR TO ANY LAND DISTURBING ACTIVITIES. INLET FILTERS SHALL BE CLEANED OR REPLACED WHEN NO LONGER PERFORMING AS DESIGNED. ANY MATERIAL FALLING INTO THE INLET SHALL BE REMOVED. INLET FILTERS MAY BE REMOVED WHEN ALL LAND DISTURBING CONSTRUCTION ACTIVITIES AT THE SITE HAVE BEEN COMPLETED AND THE SITE HAS REACHED FINAL STABILIZATION.
6. EROSION CONTROL MEASURES SHALL BE INSPECTED WEEKLY AND WITHIN 24 HOURS OF EVERY ½ INCH OR GREATER RAIN EVENT.
7. THE USE, STORAGE AND DISPOSAL OF CHEMICALS, CEMENT AND OTHER COMPOUNDS AND MATERIALS USED ON THE CONSTRUCTION SITE SHALL BE MANAGED DURING THE CONSTRUCTION PERIOD TO PREVENT THEIR TRANSPORT BY RUNOFF INTO WATERS OF THE STATE. ALL CONSTRUCTION DEBRIS OR LITTER SHALL BE CLEANED ON A DAILY BASIS.
8. SEDIMENT TRACKED ONTO ANY PUBLIC OR PRIVATE ROAD MUST BE REMOVED BY STREET CLEANING (NOT FLUSHING) BEFORE THE END OF EACH WORK DAY.
9. DISTURBED SOIL MUST BE STABILIZED WITH TEMPORARY OR PERMANENT SEED AND MULCH (OR OTHER APPROVED METHOD IN WDNR TECHNICAL STANDARDS) WITHIN 7 DAYS.

0' 40' 80'

INLET PROTECTION TYPE D
STAWBALE DITCH CHECK
MEDIUM RIP RAP
PAVEMENT
WETLAND
TC FLOW LINE
PROJECT BOUNDRY
FENCE LINE
SILT FENCE

FUTURE BUILDING

PROPOSED DRIVEWAY

PROPOSED POND

F.E.S.
INV = 682.00

F.E.S.
INV = 683.5

125 LF 18" PIPE PIPE

OUTLET STRUCTURE
STAND PIPE
N=188298.86
E=2564684.92
RIM = 682.50
8" NE = 680.00
4" ORIFICE SW = 680.00

F.E.S.
INV = 678.00

WETLANDS AS DELINEATED BY GRAEF-USA ON SEPT. 15th 2015 DO NOT DISTURB

100-year floodplain @ 675.7 (675.4 on FEMA map in NAVD 88)

F.E.S.
INV = 687.00

88 LF 15" RCP PIPE

STRUCTURE 4
RIM: 692.20
INVERT: 689.13

STRUCTURE – (3)
MH WITH FLAT TOP
N=188795.21
E=2564629.93
RIM = 693.50
15" S = 688.00

PROPOSED PAVEMENT

STRUCTURE 5
RIM: 694.76
INVERT: 689.74

BENCHMARK
RR SPIKE IN POLE
ELEV.=698.49

SEQUENCE OF EVENTS

1.) INSTALLATION OF SOIL EROSION AND SEDIMENT CONTROL SE/SC MEASURES
   A.) STORM SEWER INLET & OUTLET PROTECTION
   B.) SELECTIVE VEGETATION REMOVAL FOR SILT FENCE INSTALLATION
   C.) SILT FENCE INSTALLATION
   D.) CONSTRUCTION FENCING AROUND AREAS NOT TO BE DISTURBED
   E.) STABILIZED CONSTRUCTION ENTRANCE
2.) CONSTRUCT SEDIMENT TRAPPING DEVICES (SEDIMENT TRAPS, BASINS...)
3.) CONSTRUCT DETENTION FACILITIES AND OUTLET CONTROL STRUCTURE WITH RESTRICTOR & TEMPORARY PERFORATED RISER
4.) STRIP TOPSOIL, STOCKPILE TOPSOIL AND GRADE SITE
5.) TEMPORARILY STABILIZE ALL AREAS INCLUDING LOTS THAT HAVE REACHED TEMPORARY GRADE
6.) PERMANENTLY STABILIZE ALL OUTLOT AREAS
7.) INSTALL STRUCTURES AND GRADE INDIVIDUAL LOTS
8.) PERMANENTLY STABILIZE LOTS
9.) REMOVE ALL TEMPORARY SE/SC MEASURES AFTER THE SITE IS STABILIZED WITH VEGETATION

RESIDENTIAL RECYCLING CENTER

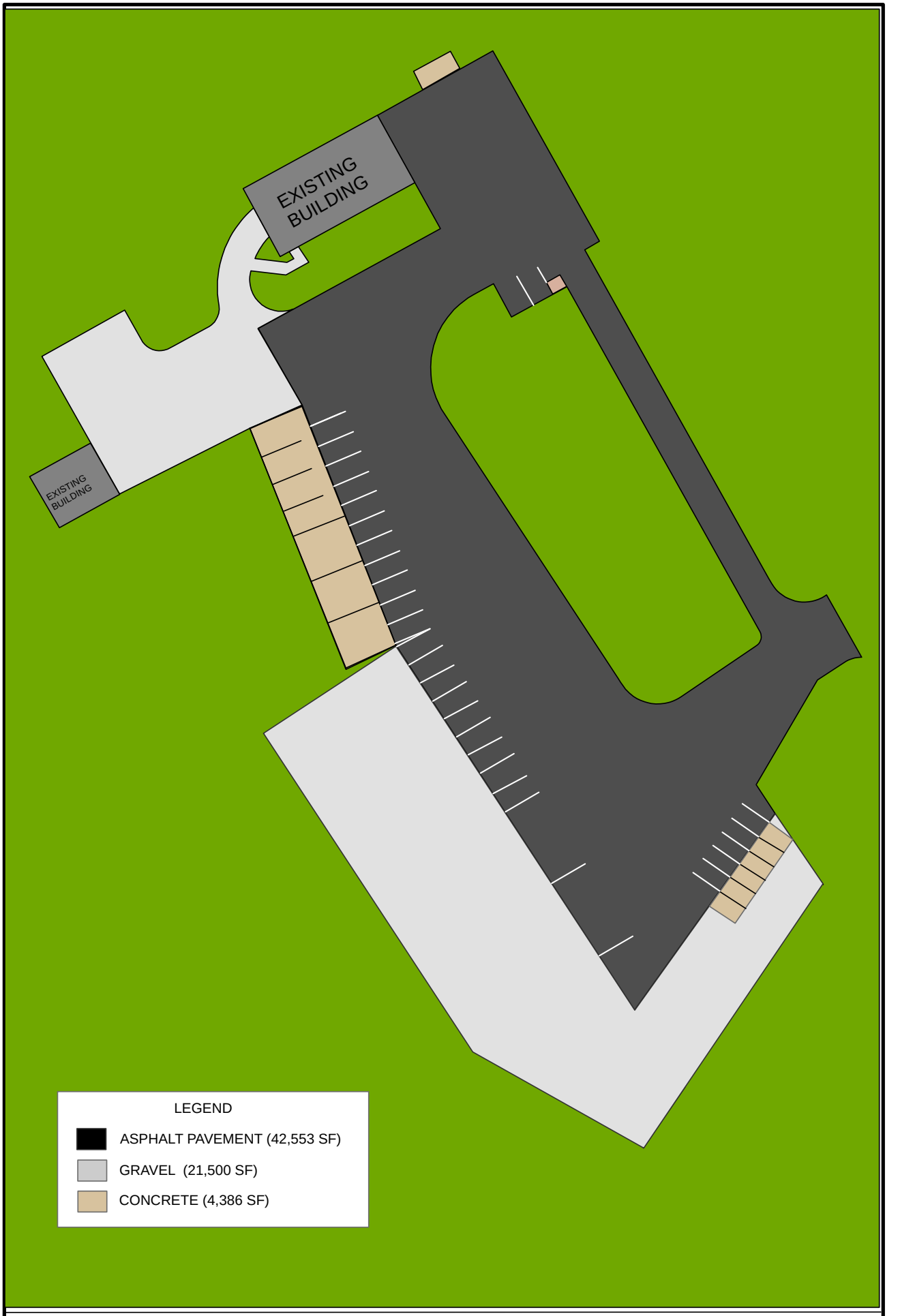
PROJECT TITLE
VILLAGE OF PLEASANT PRAIRIE
EXHIBIT "B"
KENOSHA COUNTY, WISCONSIN

DATE REVISION

DRAWING TITLE
ENGINEERING, GRADING AND EROSION CONTROL PLAN

PROJECT No.
P0200110

DRAWING No.
1
DWG 1 OF DWGS



Village of Pleasant Prairie
Department of Public Works

0 5 10 20 30 40 Feet

EXHIBIT "C"
PAVEMENT EXHIBIT

1 inch = 40 feet

N

Sheet No. **01**

Residential Recycling Center Site Plan

Drawn By: Tim Kuligoski
Checked by:
Date: 04/11/16

Village of Pleasant Prairie
Department of Public Works

0 35 70 140 210 280 Feet

Access Drive:
Russell Road to site - 6,700 sq. yd.

EXHIBIT "D"
Residential Recycling Center

RESIDENTIAL RECYCLING CENTER
Access Drive - Exhibit "D"

Drawn By: RM
Checked by:
Sheet No. 01
Date: 4/8/2016

EXHIBIT "E"
Photo Index

(Sheet 1 of 5)

EXHIBIT “E”
PHOTOS

Side Yard 1

Side yard 2

Side yard 3

Side yard 4

EXHIBIT “E”
PHOTOS

Side yard 5

Side yard 6

Side yard 7

North of site

EXHIBIT “E”
PHOTOS

Site photo1

Site photo 2

Site photo 3

Site photo 4

EXHIBIT “E”
PHOTOS

Drive view

Electronics Recycling building and gate

Concrete storage blocks 1

Concrete storage blocks 2

Hazardous Drop Off
Oil Antifreeze Only
Oil Dumping sign
Portable Hazardous sign
Oil AntiFreeze Batteries Drop off
Antifreeze sign
(New) Batteries sign
Existing E- Shed
Accept Sign 1
Check in
Stop Sign
(New) Electronics and White Goods Sign
Tires Sign
Asphalt Sign
Concrete Sign
Dirt Sign
Tires
Asphalt
Concrete
Dirt/Clay
Wood Chips
Mulch
Compost
(New) Wood chips sign
Grass area
(New) Mulch sign
Compost Sign
(New) Residential Recycling Center Check in (Arrow)
(New) Village Vehicles Only sign
(New) Branches Leaves Drop off sign
Empty Bags Sign
Branches Leaves Drop off
(New) Grass Drop off sign
Road to 128th Ave
Speed Limit 25 MPH
Grass Drop off
Loading Zone
Garbage Recycling sign
Recycling
Mulch Pile Available for Residents
(New) Mulch and Compost Loading Zone Sign off sign
Garbage

Village of Pleasant Prairie
Department of Public Works

0 5 10 20 30 40 Feet

EXHIBIT "F"
Residential Recycling Center Site Plan

1 inch = 40 feet

Sheet No. 01

RRC Sign Plan
Drawn By: John Steinbrink
Checked by:
Date: 04/11/16

EXHIBIT "F"

ON-SITE SIGNAGE

CONCRETE

DIRT

PLEASE
EMPTY BAGS
AND DISPOSE
OF IN
DUMPSTERS

GARBAGE
RECYCLING

EXHIBIT "F"

THIS AREA
UNDER VIDEO
SURVEILLANCE
NO DUMPING
ACCEPTED ITEMS
ONLY
DRAIN OIL ANTIFREEZE

VILLAGE OF PLEASANT PRAIRIE
OIL
DISPOSAL
MOTOR OIL
ACCEPTED HERE

HAZARDOUS
WASTE
DROP-OFF
SITE

TIRES

Village of Pleasant Prairie
Department of Public Works

0 5 10 20 30 40
Feet

EXHIBIT "G"
ENTRY SIGN EXHIBIT

Sheet No. **01**

Residential Recycling Center

Drawn By: John Steinbrink
Checked by:
Date: 4/12/16

SECTION 2 – ORIGINAL APPLICATION

Operational plan.

(1) Operational plan requirements. The applicant shall prepare and file as part of the application for site and operational plan approval an operational plan which shall include at least the following information or materials:

(a) A detailed narrative description of the operations, processes and functions of the existing and proposed uses to be conducted in or on the real property constituting the site, together with any diagrams, maps, charts or other visual aids that are helpful in understanding the operations and any potential adverse impacts on neighboring properties. The Village is constructing a large storage facility for Public Works Equipment at the Roger Prange Center. When this storage facility is under construction and complete there will not be room for the existing Compost drop off site at the Prange Center. The Village staff is proposing to relocate the services and relocate the site and all services for residents to the current processing location and abandoned sewer treatment plant located at 8000 Russell road. Staff would like to have the new drop off site complete in early June of 2016.

(b) A detailed description of the proposed project or activity giving rise to the need for site and operational plan approval and a detailed explanation of how such project or activity relates to the site and to the existing or proposed operations to be conducted in or on the real property constituting the site. Currently the Village processes leaves, grass and branches into compost. The material is hauled monthly into the processing site. The proposed plan is to have the residents drop off the material on the site. This will eliminate the need to haul the material in and out with large trucks. The site will accept electronics, residential hazardous, oil, antifreeze, batteries, residential garbage and reciting, broken concrete and asphalt, tires, leaves, grass, branches, wood chips and compost.

(c) Gross floor area of the existing building(s) and/or proposed addition. The existing electronics recycling building is 2,100 square feet (permit # 13-09-097). We are proposing a check in building (49 square feet). The existing hazardous storage building will be relocated from the Prange site to the new site

(d) Anticipated hours of operation, hours open to the public, and hours of deliveries or shipments. The site will be open M-F 9am to 7pm and Saturday 7am to 4 pm for residents to drop off items. No other work will be outside the listed hours.

(e) Anticipated startup and total number of full- and part-time employees. M-F one part time employee. Saturday 1 part time and one full time employee

(f) Anticipated number of shifts and the anticipated number of employees per shift. As listed in E

(g) Anticipated maximum number of employees on site at any time of the day. Three

(h) Number of anticipated students, participants or persons to be gathered in places of assembly, if applicable. N/A

(i) Number of parking spaces required per this chapter and the method used to calculate such number. One parking space for each employee

(j) Number of existing and proposed on-site parking spaces to be provided (conventional spaces and handicapped accessible spaces to be stated separately). 15 offloading spaces and 9 loading spaces for residential trailers

(k) Anticipated daily average and maximum potential number of automobile trips to and from the site (excluding trucks). Daily average is expected to be 100 per weekday with a maximum on 250 on Saturdays

(l) Anticipated daily average and maximum potential number of truck trips to and from the site. 2 truck trips per day to remove items

(m) Types and quantities of goods and materials to be made, used or stored on site. Electronics will be stored in existing Electronics shed, residential hazardous in hazardous storage facility, Oil, Antifreeze in 500 gallon tanks with spill confinement, batteries, residential garbage and reciting, broken concrete and asphalt, tires, leaves, grass, branches, wood chips and compost

(n) Types of equipment or machinery to be used on site. Front end Loader and garbage truck

(o) Types and quantities of solid or liquid waste materials which will require disposal. Drain oil and Antifreeze

(p) Method of handling, storing and disposing of solid or liquid waste materials. Drain oil and antifreeze will be stored in a 500 gallon self-contained unit. The liquid will be disposed of by a licensed hauler as needed.

(q) Methods of providing site and building security other than the Village Police Department. The site is fenced around the perimeter

(r) Description of the methods to be used to maintain all buildings, structures, site improvements and sites in a safe, structurally sound, neat, well cared for and attractive condition. Village Crews will maintain the site on a regular basis.

(s) Description of potential adverse impacts to neighboring properties or public facilities and measures to be taken to eliminate or minimize such adverse impacts. No potential adverse impacts are expected

(t) A list of all local, Kenosha County (highway access), State and federal permits or approvals required for the project or activity giving rise to the need for site and operational plan approval. Provide copies of such permits and approvals that have been obtained. No additional permits are required

(2) Operational plan standards. In addition to any other applicable requirements or standards specified in this chapter, the following requirements or standards shall apply to the operational plan:

(a) No use shall be conducted in such a way as to constitute a public or private nuisance.

(b) No use shall be conducted in such a way as to violate any of the performance standards set out in § 420-38 of this chapter.

(c) (reserved)

(d) No owner, occupant or user of real property shall conduct a use so intensively that there is inadequate provision of on-site parking spaces and/or loading spaces to accommodate the needs of such use.

(e) All buildings, structures, site improvements and sites shall be maintained in a safe, structurally sound, neat, well cared for and attractive condition.

(f) Within a building, any provision of live entertainment in connection with a business or club use involving the selling or service of alcoholic beverages shall comply with the following restrictions:

[1] Live entertainment shall be provided only on a raised platform that is not less than 23 inches higher than the elevation of the surrounding floor surfaces where customers, members or their guests are sitting, standing or dancing;

[2] Customers, members or their guests shall at all times be separated from the raised platform on which live entertainment is being provided by a distance of not less than four feet and a physical barrier to mark and enforce such separation distance; and

[3] There shall be no touching of any kind between entertainers and customers, members or their guests.

(g) No proposed new or expanded use shall be permitted to create or significantly exacerbate unsafe traffic conditions on any street or highway in the Village.

(h) Indoor pyrotechnic displays are prohibited.

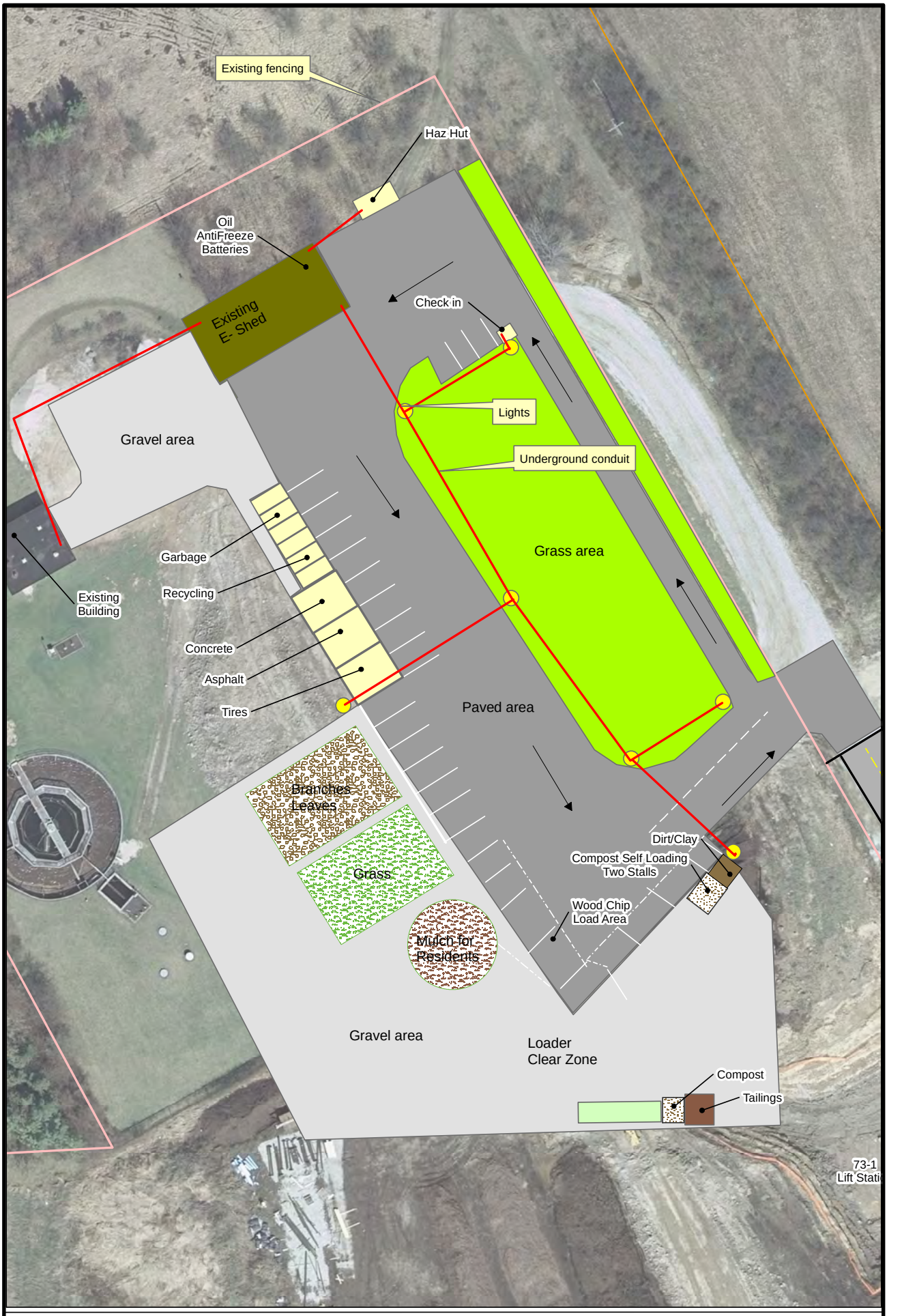
Village of Pleasant Prairie
Department of Public Works

1 inch = 500 feet

Compost Aerial Site

Drawn By:	John Steinbrink
Checked by:	
Date:	01/14/16

Sheet No. 01



Village of Pleasant Prairie
Department of Public Works

0 5 10 20 30 40 Feet

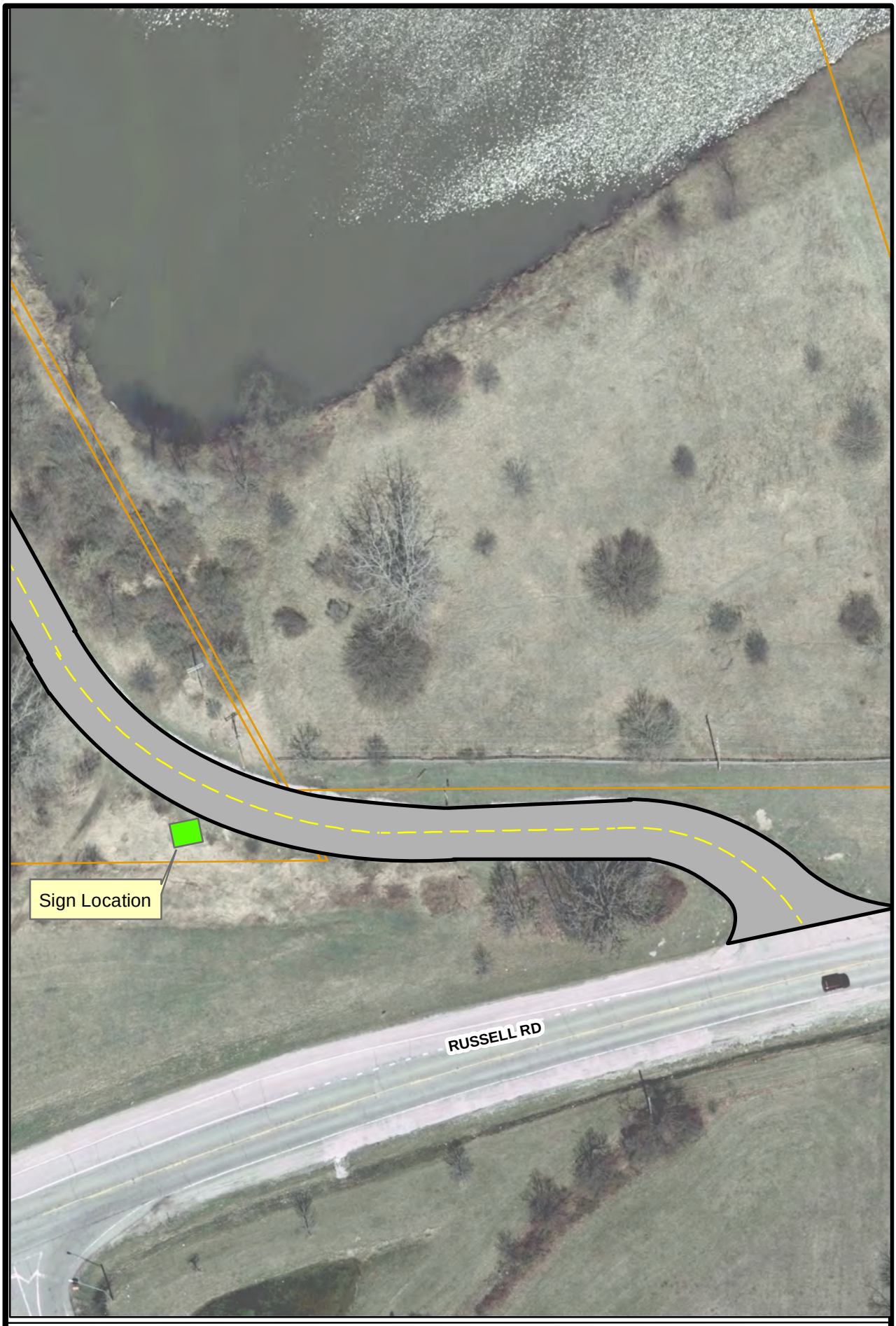
Residential Recycling Center Site Plan

1 inch = 40 feet

Sheet No. **01**

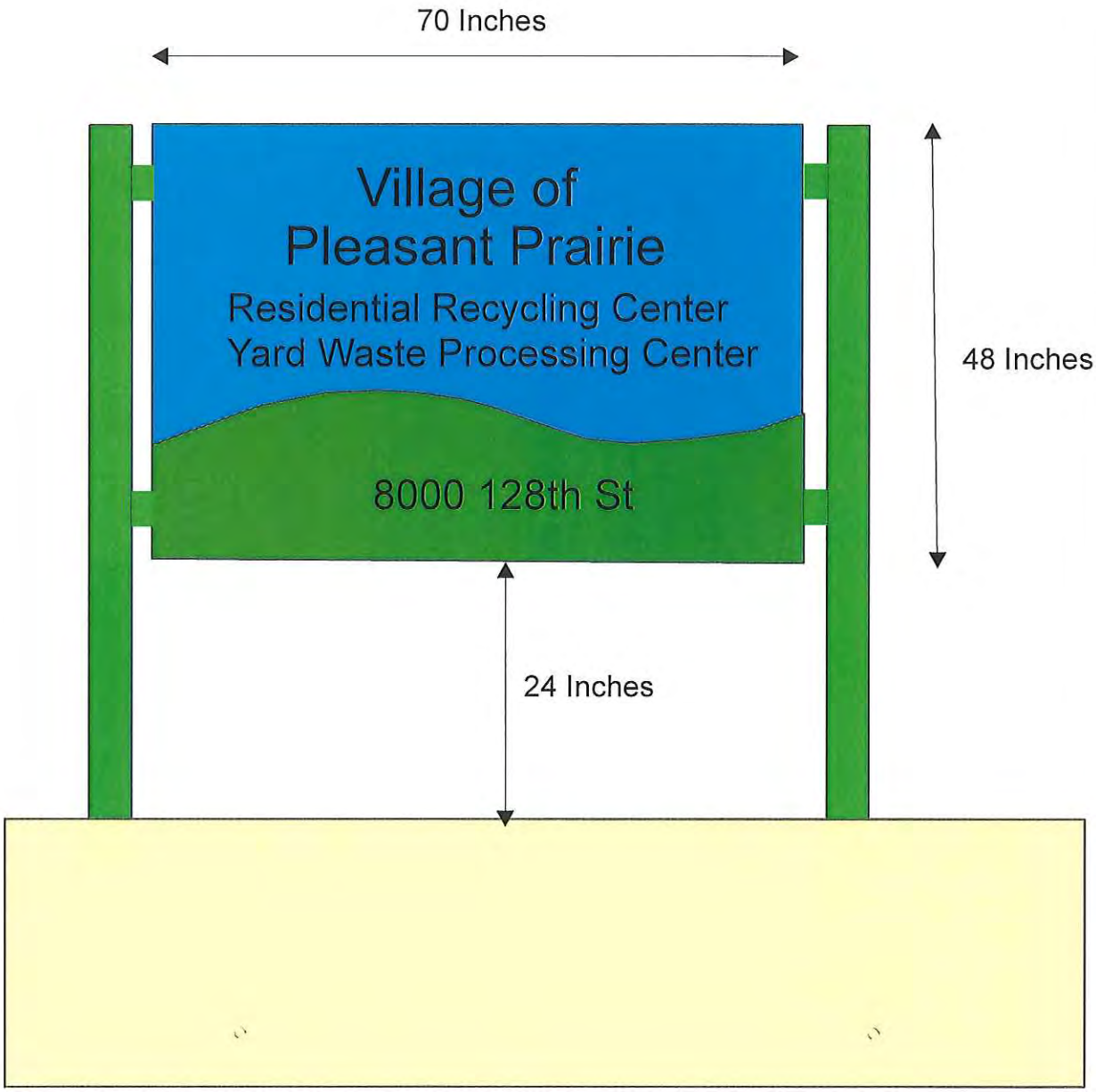
73-1 Compost Site Layout

Drawn By:	John Steinbrink
Checked by:	
Date:	01/14/16



Village of Pleasant Prairie
Department of Public Works

Sheet No.	01
73-1 Compost Sign	
Drawn By:	John Steinbrink
Checked by:	
Date:	01/14/16



Village of Pleasant Prairie
Department of Public Works

Sheet No.	01
73-1 Compost Sign	
Drawn By:	John Steinbrink
Checked by:	
Date:	01/14/16

Exhibit 2

Office of the Community
Development Director
Jean M. Werbie-Harris

April 21, 2016

Dear Pleasant Prairie Property Owner or Other Interested Party:

The purpose of this notice is to inform you that the Village of Pleasant Prairie will be conducting a Public Hearing to consider an **amendment to a portion of the Green Hill Farms Neighborhood Plan** related to the development of the property at 8000 128th Street for the Village's new Residential Recycling Center. This facility is the Village's new residential compost site that is being relocated from the Roger Prange Municipal Center Building site.

Neighborhood Plans, which are a component of the Village's Comprehensive Plan, are intended to provide the community with a means of reviewing the patterns of existing and probable future development in and around the area proposed for land development, evaluating access to the land development and the feasibility of developing certain land uses and lot layouts, roadways and parkways, open green spaces and preservation areas, schools, municipal facilities and services to serve the neighborhood. The Neighborhood Plan sets forth a guide for future development if and when a willing landowner wishes to develop his/her land.

The proposed amendment to the Green Hill Farms Neighborhood Plan includes portion of the south central portion of the Neighborhood in U.S. Public Land Survey Section 33, Township 1 North, Range 22 East in the Village of Pleasant Prairie.

The **PUBLIC HEARING**, in consideration of the request, is being held by the Village Plan Commission on **Monday, May 23, 2016, on or after 6:00 P.M.** in the Village Municipal Building Auditorium, 9915 39th Avenue in the Village.

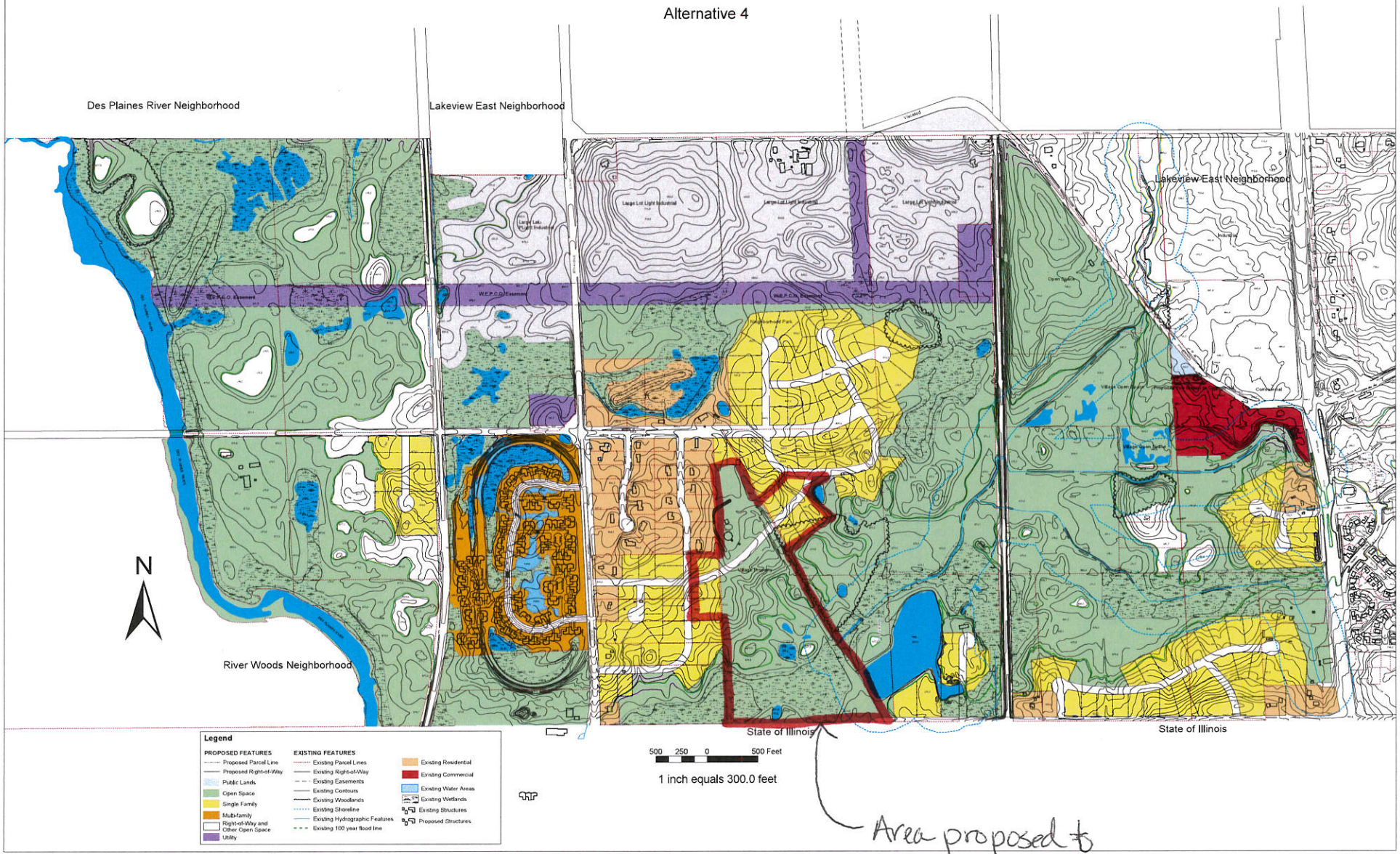
If you wish to comment on the petitioner's request, comments will be received prior to and at the Public Hearing. If you would like more information, please contact Jean M. Werbie-Harris, Community Development Director or Peggy Herrick, Assistant Planner/Zoning Administrator at (262) 925-6717.

Comp Plan Amend-Green Hill Farms NP

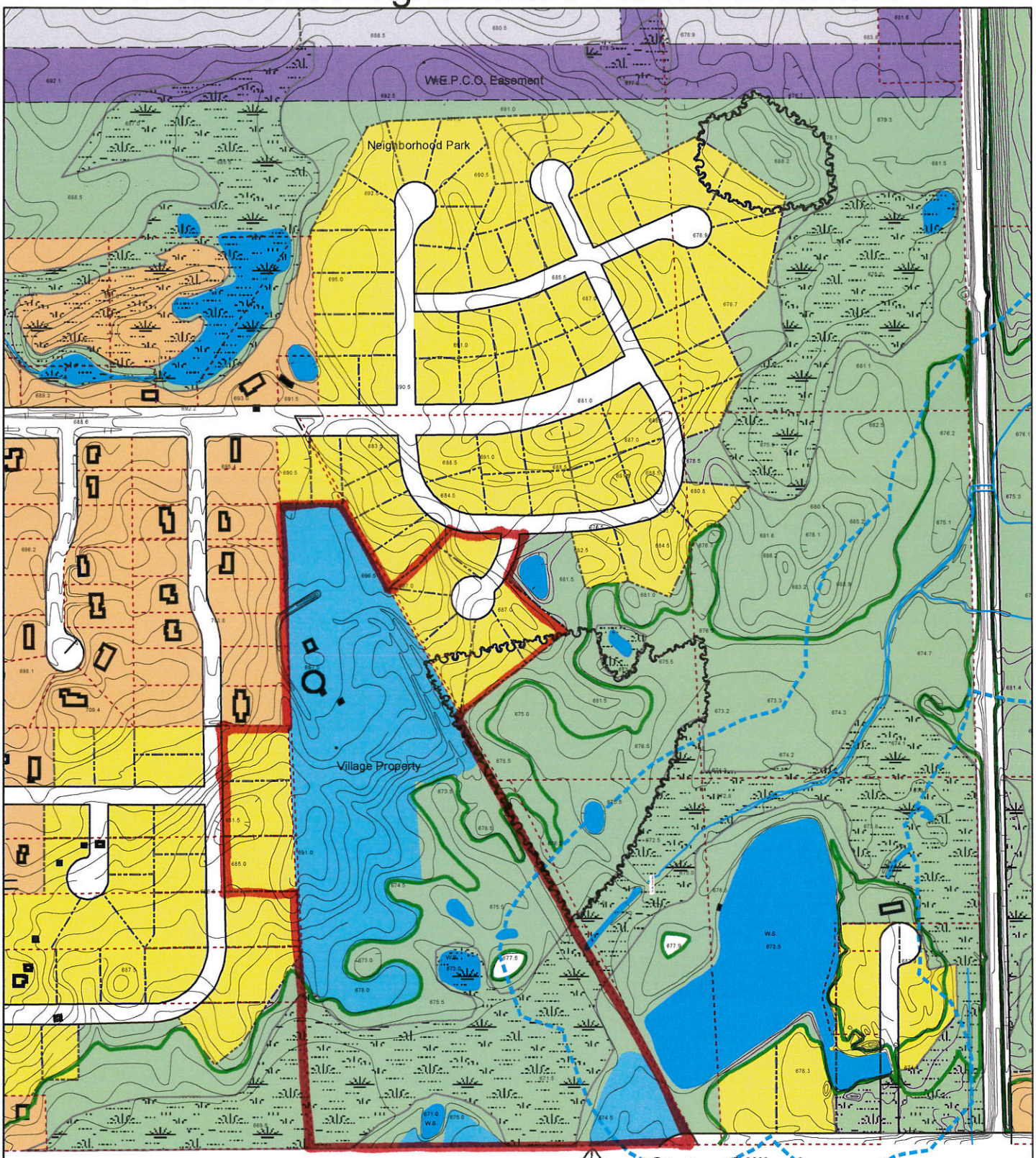
CODE1604-001

Green Hills Farm

Alternative 4



Green Hills Neighborhood Plan Amendment



Legend

PROPOSED FEATURES
- Proposed Parcel Line
- Proposed Right-of-Way
- Governmental and Institutional Lands
- Open Space
- Single Family
- Multi-family
- Right-of-Way and Other Open Space
- Utility

EXISTING FEATURES
- Existing Parcel Lines
- Existing Right-of-Way
- Existing Easements
- Existing Contours
- Existing Woodlands
- Existing Shoreline
- Existing Hydrographic Features
- Existing 100 year flood line
- Existing Residential
- Existing Commercial
- Existing Water Areas
- Existing Wetlands
- Existing Structures
- Proposed Structures

Source: Village of Pleasant Prairie

D. Consider the request of Michael Christiansen, owner of the property at 9301 River Road for approval of the **Lot Line Adjustment** with the adjacent property to the north located at 9109 River Road.

Recommendation:

Village staff recommends that the Village Plan Commission send a favorable recommendation to the Village Board to approve the **Lot Line Adjustment** subject to the comments and conditions of the May 9, 2016 Village Staff Report.

VILLAGE STAFF REPORT OF SEPTEMBER 14, 2015

Consider the request of Michael Christiansen, owner of the property at 9301 River Road for approval of the **Lot Line Adjustment** with the adjacent property to the north located at 9109 River Road.

The owners of the properties located at 9301 River Road (Tax Parcel Number 92-4-122-181-0102) and 9109 River Road (Tax Parcel Number 92-4-122-181-0101) *are proposing to adjust their lot lines. The north lot line of 9301 River Road is being adjusted to add approximately 3,264 square feet from the property at 9109 River Road.*

By adjusting the common lot line, it will allow the owner of 9301 River Road to construct a detached garage.

Both properties are zoned A-3, Limited Agricultural District and both have portions that are located within the FPO, Floodplain Overlay District. The parcel at 9109 River Road also has portions zoned C-1, Lowland Resource Conservancy District. The property at 9301 River Road is considered a non-conforming lot in that the lot does not meet the minimum requirements for the A-3 District with respect to lot size and lot frontage. The A-3 District requires a minimum lot area of 5 acres with a minimum lot width on a public street of 300 feet. This lot line adjustment adds more area to the non-conforming lot making the lot less non-conforming.

The Lot Line Adjustment will comply with the requirements set forth in the Village Zoning Ordinance and Land Division and Development Control Ordinance.

The Village staff recommends approval of the Lot Line Adjustment subject to the petitioners recording the proper transfer/deed documents with the Plat of Survey for the Lot Line Adjustment as an Exhibit at the Kenosha County Register of Deeds Office within 30 days of final Village approval.

RECEIVED
APR 20 2016
BY:_____

20APR16

My Name is Michael Christiansen, I Live at 9301 River Road. My GrandFather, Oliver Christiansen owns the Property Directly North of me. He is giving me a small section of Land through a Lot Line adjustment to have the setback for building a detached garage. The garage is for storage of a Fishing boat and ATV. IT will be 520 ft.

Michael Christiansen
9301 River Rd.
Pleasant Prairie WI.
53158
262-620-9028
hvacmike17@gmail.com.

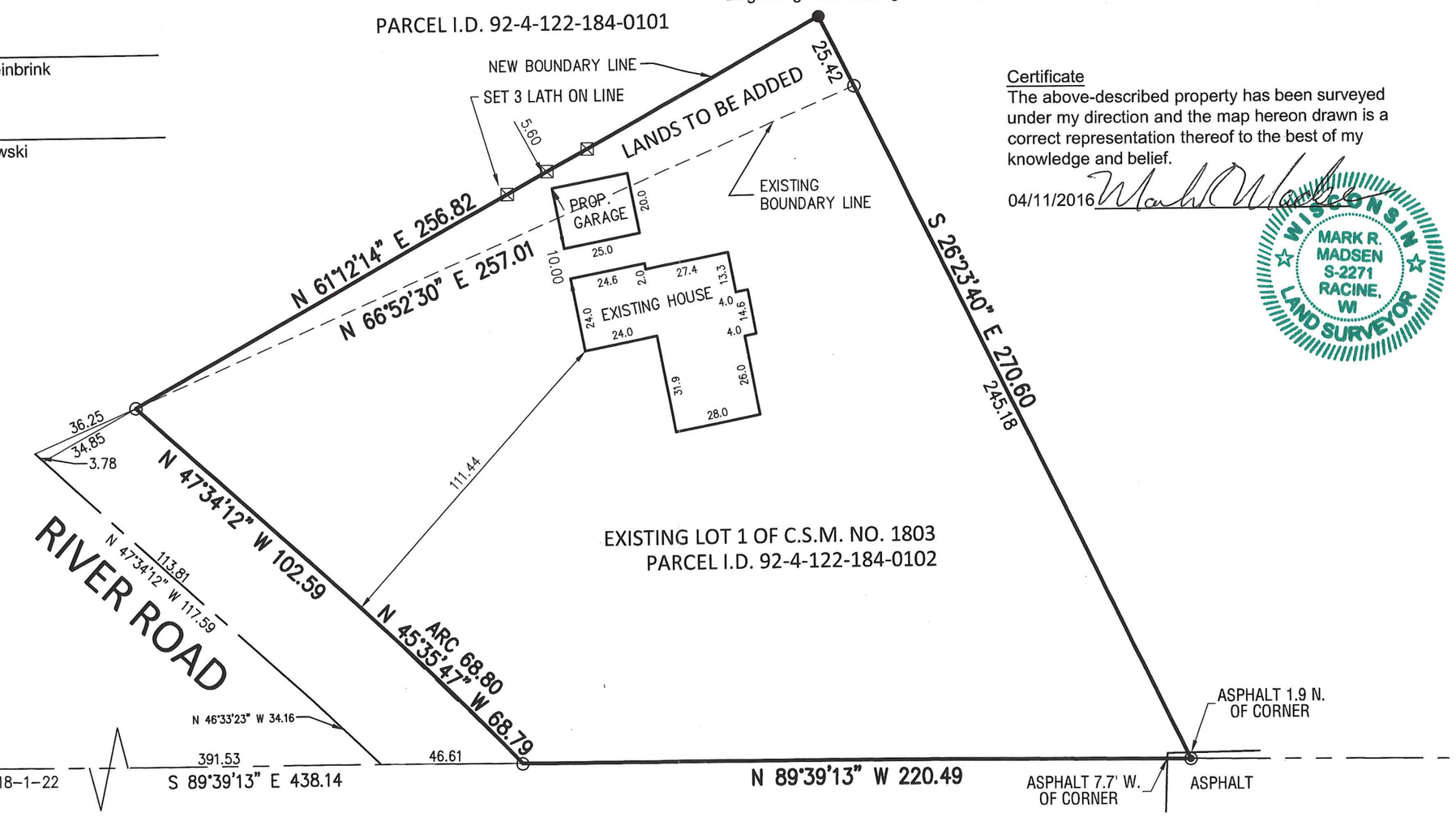
This Survey and descriptions for the lot lines to be adjusted is hereby submitted to and approved by the Village Board of the Village of Pleasant Prairie as being in compliance with the Village Land Division and Development Control Ordinance on this _____ day of _____, 2016.

Plan Commission Chairman_____
Thomas W. Terwall

Village President_____
John P. Steinbrink

Village Clerk_____
Jane M. Romanowski

Plat of a survey for MICHAEL CHRISTIANSEN for the Lot line adjustment of Lot 1, Certified Survey Map (C.S.M.) No. 1803, a recorded map, of that part of the Southwest 1/4 of the Southeast 1/4 of Section 18, Township 1 North, Range 22 East, in the Village of Pleasant Prairie, County of Kenosha, State of Wisconsin, bounded as follows: Lot 1 of Certified Survey Map (C.S.M.) No. 1803, a recorded map, along with the following; begin at the Northwest corner of Lot 1 of said C.S.M.; thence N61°12'14"E 256.82 feet; thence S26°23'40"E 25.42 feet; thence S66°52'30"W 257.01 feet along the Northerly line of Lot 1 of said C.S.M. to the Point of Beginning. Containing 47,421 square feet / 1.089 acres.



Certificate
The above-described property has been surveyed under my direction and the map hereon drawn is a correct representation thereof to the best of my knowledge and belief.

04/11/2016 Mark R. Madsen

WISCONSIN MARK R. MADSEN S-2271 RACINE, WI LAND SURVEYOR

BEARING BASE: GRID NORTH, WISCONSIN COORDINATE SYSTEM, SOUTH ZONE. BASED ON NAD 1927.

LEGEND
- ● = SET 5/8" REBAR
- ○ = FOUND 5/8" REBAR
- ⊙ = SET P.K. NAIL

FIELD WORK 04-08-2016 BY JWP /SJM

Nielsen Madsen & Barber S.C.
Civil Engineers and Land Surveyors
1458 Horizon Blvd. Suite 200, Racine, Wisconsin 53406 Phone (262) 634-5588 Facsimile (262) 634-5024

PLAT OF SURVEY FOR A LOT LINE ADJUSTMENT FOR A NEW GARAGE

Part of the SW 1/4 of the SE 1/4 of Section 18-1-22, Village of Pleasant Prairie, County of Kenosha, State of Wisconsin

Scale: 1" = 40'
Drawn By: FTH
Date: 04-11-2016

Job No.
2016.0028.01

Tuesday, April 12, 2016 1:20:10 PM