



## Memorandum

Winnetka Park District

To: Ann Klaassen, Assistant Director of Community Development

From: Costa Kutulas, Director of Parks and Maintenance

Subject: Special Use Permit Review #1 – Centennial Park + Beach 255 Sheridan Road – (Case No. 24-08-SU) Review Responses (WPD)

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We greatly appreciate the Village of Winnetka's thorough review of the documents submitted for the Special Use Permit Review for Centennial Park + Beach (225 Sheridan Road). The following responses are a direct result of your insightful comments.

The responses are being provided in order as they appeared on the April 22, 2024, memo regarding the project review comments. All drawings are numbered to the correlating question answer, as noted in the responses here.

If additional clarification is needed after the staff reviews the responses and you would like to meet to discuss it, please let me know, and I will be happy to schedule a meeting.

If no additional questions are needed, please let us know the next steps and meeting schedules for the next step in our project's Special Use Permit review.

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### Community Development Review Responses

- 1.) The written portion of the application indicates a special use permit is already in place for the existing park and beach. Do you have any record of such a special use permit being approved by the Village, such as an ordinance or resolution?

**Response: The Park District was under the impression that there was a previous Special Use Permit submitted in 1995 when the Centennial Dog Beach was installed. We were unable to find the prior application. We now anticipate that this project will be submitted as a new Special Use Permit application based on conversations with village staff.**

- 2.) The written narrative states that the proposed project includes "Emergency and maintenance vehicle access to the beach area". Please describe in what manner such access is being provided.

**Response: The project allows for access from the parking lot through the park via a widened sidewalk (10') down the ADA ramp (10'6") to the elevated boardwalk (12'6") at**

the toe of the bluff (elevation 587.5' - 589'), which then can be used to access the swimming beach on the north side of the pier structure either by stair access or ADA ramp access (10'6"). The Off-Leash Dog Beach can be accessed down the same path from the parking lot down to the boardwalk level (elevation 587.5' - 589'), then down an access stair (7') at the dog beach entrance or maintenance access on beach level (9') fencing that is parallel to the steel sheet piling through a double gate (8'). Emergency Personnel would be able to access either of these pathways as needed with their equipment (not an ambulance or firetruck), and maintenance personnel would be able to access these areas with small equipment for maintenance purposes.

3) The Special use standards narrative should also address how the requested exceptions meet the special use permit standards.

**Response: We planned on presenting these standards to each Board or Commissions as part of our presentations. Please let me know if you need to review these ahead of those meetings.**

4) Please provide detailed description of the proposed activities and uses that will occur in Centennial Park and Beach, including (a) on the dog beach, (b) on the "human" beach, including on the pier (c) on the slope impact area, as defined by Village Code Chapter 17.82, Steep Slope Regulations, and (d) on the entire tableland area of the park.

- a. Provide a description of the types of activities that will occur in each of the four areas.

**Response: (a) The off-leash dog beach is being proposed as a beach that residents & non-residents (paid pass holders) can recreate with their dogs off-leash in a beach environment. (b) the "human" beach is designed to provide recreational space for both residents and non-residents to enjoy the beach environment. Some of these activities could include swimming, sunbathing, sand castle building, beach walking, etc. (c) activities within the slope impact area, including an ADA walking path and stairs for access to and from the beach, or access to mid-bluff seating area and passive park space. A section in the mid-bluff (currently existing) will remain a passive park seating area for patrons to enjoy the beautiful view of the lake and environment. (d) the tableland area will be maintained as parkland, which includes sidewalks, seating nodes, and open green space for the community to enjoy.**

- b. When will each of the four areas be open to the public? Time of the year, days of the week, time of day, etc.

**Response: (a) the off-leash dog beach is proposed to be open year-round as the current On-leash dog beach is operated from dawn till dusk. A pass to access the proposed off-leash dog beach will be required and can be obtained by paying the service fee and submitting veterinarian records. (b) the "human" beach will be open, similar to our other swimming beaches, from dawn to dusk, yearly, with**

swimming days and lifeguards on staff through the summer months (passes will be required while the beach is open when it is staffed with lifeguards). (c) the slope area, the ADA walkway and staircases will be open year round from dawn till dusk. (d) the upper parkland will be open year-round from dawn to dusk.

- c. Which areas would require a pass to access? Please provide details regarding the passes, such as who will be able to secure a pass, is a fee required, how does one secure a pass, and other operational details related to each type of pass.

**Response:** Of the four areas noted, only two will require a pass, and all passes are offered to residents and non-residents with a slight difference in cost. (a) the off-leash dog beach will require a pass. The pass can be acquired by completing a registration form at the WPD Administration Building. This pass is to ensure that all off-leash dog pass holder dogs are current with their vaccination records and pay for the key fobs and upkeep of the dog beach itself. (b) the “human” beach will also require a pass when the beach is open and staffed with lifeguards. Typically, from late May through early September (depending on staff availability) from 9 am till dusk. The pass can be secured on-site the day of or ahead of time at the WPD Administration Building.

- d. Regarding each of the beach areas, would Park District personal (e.g., lifeguards, security, etc.) be on site?

**Response:** the “Human” Summering Beach would be the only site to staff lifeguards during the swimming season. Typically, from late May through early September (depending on staff availability) from 9 am till dusk. We also provide additional overnight security for the lakefront beaches during the beach season. The security measure is budgeted from year to year and open for review by the Park Board requiring approval of funding to support this initiative.

- e. How does one get into and out of the dog park? The beach to the north of the pier?

**Response:** The dog beach is secured with an electronic gate system, accessible to individuals who register for an off-leash dog beach pass (Similar to the system in place today). The beach to the north, or the “human” beach, would be open, as noted previously, to anyone year round except for the swimming season hours. Then, the beach will be staffed with a beach attendant who will monitor access to those who have a beach pass.

- f. Will there be a set of rules for use of any other of the four areas? If so, please provide what those are?

**Response:** The rules for any of the sites would be the same that are in-place now for each use. Those rules can be found on the Winnetka Park Districts website with the link below. <https://www.winpark.org/beaches-parks/beaches/passes/>

- g. Regarding the dog beach, are there any other applicable State, County, etc. regulations which the dog beach must comply (e.g. fencing requirements, leash requirements, etc.)? If so, what are they, and please provide a narrative regarding how the proposed dog beach complies?

**Response: The Winnetka Park District would follow the current Cook County Department of Animal and Rabies Control and is looking to gain clarification on how Ordinance No. 04-O-44, § 6,11-3-2004 would be interpreted for an off-leash dog park which is on Lake Michigan. Similar requirements exist at other municipal off-leash dog beaches in Cook County. Our proposed design has fencing with a two-gate leash-up area surrounding three sides of the dog beach (similar to other municipal off-leash dog beaches in Cook County). Pass holders would be required to submit vaccination records and pay a yearly fee before receiving their passes.**

- h. For what parks and recreation activities will the tableland be used? Passive recreational activities or active recreational activities? Please describe.

**Response: as noted previously in question 4)a. the tableland area will be maintained as parkland, which includes sidewalks, seating nodes, and open green space for the community to enjoy. The space is not designed to be formally programmed, but just like any open park space, if community members wanted to use the space for more of an “active recreation,” i.e., playing frisbee or whiffle ball as an example, staff would not prohibit that type of pick-up play. Currently no programming is anticipated for the upper parkland.**

- i. Please provide any other details regarding the operational aspects for the four proposed areas of Centennial Beach and Park.

**Response: Centennial Beach is open and accessible for beach walkers who would approach the site from the beach level.**

- j. Will the proposed improvements and use of the park and beach increase the usage of the park and beach from its current activity level? If so, how will the existing on-site parking accommodate the increased usage?

**Response: The proposed developments are not anticipated substantially increase park usage as they primarily consist of improvements to public accessibility of the existing park and beach amenity spaces on the site and improvements to existing uses of the park and beach. Existing parking will remain as is and be provided on a first come first served basis for users. The Park District can accommodate additional parking at Elder Lane Park.**

5. Explain in the written portion of the application what is meant by “bluff restoration”.

**Response: For the purposes of this project, bluff restoration refers to the process of removing targeted invasive species on the bluff (steep slope) areas of the site and**



establishing new native vegetation. Our management and restoration plans aim to rehabilitate and diversify the plant communities in these areas to help stabilize the bluff, prevent erosion, protect and preserve the site, and restore native habitats. Our team has identified invasive and non-native tree species for removal in order to create space and sunlight for the successful planting of native trees and ground-plane vegetation. The bluff restoration plans further identify targeted invasive shrub and herbaceous species for removal. Removal and re-vegetation practices will follow best practices and industry standards as well as protocols and considerations unique to this site for slope stabilization. Trees to be removed from the bluff areas will be cut flush with the surface and treated in place with their stumps and root mass to remain to ensure slope stability. New native vegetation planting plan utilizes carefully selected native vegetation that is well adapted to the site with fibrous root systems to hold the soil and slope in place. All areas of the bluff restoration planting will be seeded with a native cover crop, protected with a straw blanket, and enhanced with native plugs planted through the blanket. Any areas of the bluff disturbed for construction activities would be further restored with soil, plantings, and a decomposable yet durable erosion control mat.

6. Clarify access through the dog beach for the public traversing the beach.

**Response: Public access is not provided through the dog beach area but it is provided behind the dog beach area along the west and south shorelines. Notations have been added to the plan sheet C137 to indicate public access across the beach.**

7. You must designate slope impact area, which includes the steep slope zone and slope transition area, on a topographic plan sheet, and provide the necessary cross sections to support these designations. Please see Engineering comments.

**Response: The Plan Sheet and Cross Sections are noted in drawings CS-6 – CS-10.**

8. Once you define the steep slope zone, please describe as specifically as possible the requested exceptions (e.g., stairs (walkway) greater than five feet in width and landings greater than 50 square feet; any retaining walls being installed that are not for slope stabilization, such as for any new seating area within the steep slope zone, etc.)

**Response: The steep slope zone is identified on the plan sheet CS-6 and a chart of non-conforming elements is provided on the Overall Plan Sheet C137 to clarify elements requiring exceptions to build in the steep slope zone and within the 50' set back from the front yard ordinary high water mark.**

9. The concrete wall identified in View 2 on Sheet 102 is not included elsewhere on the plans. Please clarify.

**Response: The concrete wall in question is actually an existing steel groin that runs along the southern edge of Centennial Beach. It appears to be concrete due to the color rendering for View 2 on Sheet C102.**

10. Though the proposed work is for a portion of the property, for the special use permit application a proposed site plan for the entire property should be provided, so that the proposed improvements can be evaluated in the context of the full site.

**Response: Sheet C101, provided with the original submittal, included all the elements. If additional images are needed, please let me know.**

11. Provide a tree preservation plan and a landscape plan, including a list of proposed plant materials.

**Response: Tree preservation plan is provided, see sheet C136. Landscape plan and Restoration Notes are provided, see sheets C139 and C149.**

12. Provide a signed and sealed copy of the topographic/bathymetric survey by Terra Technology Land Surveying, Inc.

**Response: A signed topographic/bathymetric survey by Terra Technology Land Surveying, Inc. will be delivered to the department of community development.**

13. The plat of survey or topography needs to include: a. Lot area measured to the ordinary high water mark (OHWM); and b. Representation of the toe of the bluff.

**Response: Updated plat of survey for Centennial includes lot measurements from the OHWM included. (b) The toe of the bluff is represented on Centennial Park Plat, which notes the toe of the bluff, including the steep slope zone and slope transition area, on sheet CS-6.**

14. Without a plat of survey representing the OHWM and the toe of the bluff as defined by recently adopted Village Ordinance MC-01-2024 (a copy of which is attached), staff is not able to determine where the required front yard setback of 50 feet is located on the site. The zoning review cannot be completed without this information. Once you have demarcated the front lot line, as specially as possible identify the structures that will require a zoning variation from the front yard setback standard, and the justification for it.

**Response: Please reference sheets CS-6 and C137 for this information.**

15. The site plan rendering identifies an element to be removed with a gold dashed line. Is that the southernmost existing steel sheet pile? Would the northern steel sheet pile remain?

**Response: The item noted for removal with a dotted gold line is one of the existing steel sheet pile groin, which is located near the middle of the beach. This steel will be removed, and a new steel sheet piling will be installed to create the pier element. This is the northernmost existing steel sheet piling owned by the WPD for Centennial Beach.**

16. Provide details of the proposed ornamental fencing and the proposed dog fence (height, material, color), including the height of the fence on the breakwater.

**Response: Handrail and fencing layout plan is provided, see sheet C140. Additional handrail and fencing details are provided, see sheets C143-C145.**

17. Sheet C101 shows the fence for the dog park encroaching onto the “neighboring” property to the south. Please explain in your resubmittal why.

**Response: The southern steel sheet piling runs from WPD property and is an existing WPD element that is in place and functioning. The fencing was added to the existing steel, as shown since this is a current WPD-maintained element to provide protection and a strong base for the fencing to attach to.**

18. How will the fence for the park beach be constructed? The plan sheet shows only a fence, while the renderings show what appears to be a fence installed on top of a concrete wall. How tall will the dog fence (and any wall on which it may be installed) be from the existing grade?

**Response: This portion of the fence, shown on the handrail and fencing plan (sheet C140), will be mounted to the existing sheet pile wall. Posts will be welded directly to the existing sheet pile wall cap. The fence will be set 5’ above the sand profile and contour down, always maintaining a minimum elevation difference of 5’ from the sand to the top of the fence as it projects east into Lake Michigan.**

19. Clearly label all elements of the plan on all plan sheets (e.g. the landing between the walkway and the boardwalk, the structure immediately to the south of this landing, the purpose of gate to the south of “Relocated Dog Relief Station”, etc.).

**Response: Labels are provided on updated plans, see sheets C137.**

20. Is there a way for someone to walk along the lake from the north edge of the beach to the south edge of the beach, or vice versa, without using stairs?

**Response: No. Ramps are only provided to the swimming beach area to the north, but a public access staircase is provided on the south of the boardwalk to accommodate the public traversing the beach. As someone walks off of WPD property south, they would need to use stairs installed per the approved State and Federal permits for residents south of Centennial Park.**

21. Please provide details (materials, finishes, colors, design etc.) of all proposed improvements (e.g. retaining walls, railings, fences, boardwalk, pilings, outcroppings, lighting, groin materials, etc.) so that the Zoning Board of Appeals will have a better understanding of the need for the required relief (variations and exceptions).

**Response: Details for sheet piles, groin materials, and retaining walls are provided on the engineer’s drawings. Details, materials, and cut sheets for site elements and improvements are provided on sheets C141-C148.**

22. Fully dimension the plans. Including but not limited to the walks, boardwalk, ramp, width of pier, distance between the proposed dog beach fence and the new stone groin on the neighboring property.

**Response: Fully dimensioned layout plan is provided, see sheet C138.**

23. Provide details of proposed lights and identify all the proposed light fixtures on the plans.

**Response: Low-level bollard light locations are provided on the plans, see sheet C137. Light fixture cut sheets are provided on sheet C147.**

24. Are lights proposed for the pedestrian walk to the boardwalk?

**Response: Low-level bollard lights are strategically provided at transition points along the public ADA access ramp to the beach at the staircase at the bottom of the ramp where it transitions to the boardwalk. Additional lighting is provided at critical points along the boardwalk on the west side of the boardwalk cast onto the walking surface. The park district does not want to encourage use of the park after hours but still provide a safety lit area should anyone need to access the beach after dark.**

25. Provide details on how the boardwalk would be constructed and what it would be constructed of.

**Response: Boardwalk structure details are provided on the engineer's drawings. Details for the material and finish of the boardwalk are provided on sheets C142.**

### **Engineering Review Comment Responses**

1. Per the recently adopted steep slope ordinance, a copy of which is attached, you must demarcate the location of the slope impact area, which includes the steep slope zone and the slope transition Page 4 area, in plan view and provide cross sections every 25 feet. If you have any questions, please reach out to the Engineering Department. Submittal must also provide information supporting how conceptually the design of the proposed plan within the slope impact area meets the Development Standards of Section 17.82.050.

**Response: The Plan Sheet and Cross Sections are noted in drawings CS-6 – CS-10.**

2. Provide plan sheets showing sheet pile bulkhead/shoreline layout and detail section plans for major components. This is necessary to better understand the design and impact of the boardwalk, ADA ramps, stairs, etc. Also, to better understand the beach that is being created and its impact, show plan sheets for the sand fill limits and the amount of sand to be brought in would be helpful to evaluate the proposed design of the overall improvements.

**Response: The Plan Sheets for these cross sections are still in development and will be shared once completed.**

3. Recommend that proposed 7-foot-wide pathway be continued to the circular vehicular island to create consistent accessibility and improved drop off/pick up.

**Response: Updated per Request, increased to 10' to accommodate maintenance equipment.**

4. Proposed breakwater elevation will allow for wave action over the top of the proposed walkway, consideration should be given on how to improve safety at this location. Consideration should also be given as to eliminating accessibility for pedestrians to walk onto the stone groin rocks.

**Response: We are proposing adding additional signage and a gate as needed to secure the pier with adverse weather conditions.**

5. Will electrical service be required for the dog park FOB system or lights? If so, plans should highlight these locations and possible transformer locations.

**Response: Electric for the dog beach gate and bollard lighting is required. The power distribution boxes are anticipated to be located on the bluff above an elevation of 591' or greater. Electrical Plans are being finalized and can be sent to the Village of Winnetka Engineering Department upon request.**

6. Does the Park District plan on adding pedestrian lights along the pathway from the parking lot to the beach access, or will lights be installed along the boardwalk?

**Response: At this time, no lighting is proposed running along the pathway from the parking lot to the top of the ADA access walkway. Low-level bollard lights are strategically provided at transition points along the public ADA access ramp to the beach at the staircase at the bottom of the ramp where it transitions to the boardwalk. Additional lighting is provided at critical points along the boardwalk on the west side of the boardwalk cast onto the walking surface. The park district does not want to encourage use of the park after hours but still provide a safety lit area should anyone need to access the beach after dark.**

7. Park District should coordinate with the Police Department on placement of additional security cameras throughout the site.

**Response: Currently no security cameras are proposed. Staff can have a discussion with Police if there is a requirement.**

8. Should the Council approve the requested exceptions for the Steep Slope ordinance, Engineering Department will still require detailed analysis of geotechnical and structural review for proposed walkway, retaining walls, board walk, and other proposed improvements within the slope impact area.

**Response: Will provide upon request.**

9. Engineering Department will require steep slope stabilization planting plan.

**Response: The restoration planting design takes into account the need for slope stabilization both in the plantings being specified and through additional design measures including seed blanket and erosions control mat as described in Community Development Review Comment Response #5. Cut sheets are provided for the blanket and erosion control mat, see supplemental information attached.**

10. If any trees are proposed to be removed as part of the proposed improvements coordination with the Village Forester is required at this time. Tree mitigation will be considered as part of final approval.

**Response: Tree removals and preservation plan is provided with tree mitigation chart located on sheet C136. A portion of required replacements are shown on the Landscape Plan for restoration objectives, see sheet C139. It is the park district's intention to balance restoration objectives with the community's interest to preserve views to the lake.**

11. Proposed fence around dog park, specifically along the southern end of the dog area, will need to be placed far enough away from the existing steel groin and new stone groin on neighboring property to allow for ample safe passage between the properties.

**Response: The proposed dog beach fence is to be located on the existing steel groin to the south, offset 6' min. width from the new installed stone groin at the south neighbor property, as shown on sheet C138.**

12. The new ramps are in conflict with two existing private storm sewers. The layout and renderings indicate the sewers will be removed. It also appears there is not a clear plan to replace the drainage function these provided. This could end up in debris and sheet flow onto the ramp and over the back of the retaining wall. Consider adding a drainage system to capture runoff up stream of the retaining wall.

**Response: This is currently being reviewed/designed with the project engineers and can be sent to the Village of Winnetka Engineering Department upon request.**

#### **Coastal Engineer Review Comment Responses:**

1. The proposed improvements appear to improve access for the public and public safety operations. However, the boardwalk terminated at the North end is unclear in the information provided. Please clarify the north end in more detail.

**Response: The termination of the north section of the boardwalk was chosen to give enough space to protect the ADA beach ramp, and space for patrons to have an area to view the beach and lake without having to go down to the beach itself. We anticipate connecting this boardwalk to Elder Lane Beach as part of a future phase.**

2. Elevation of proposed pier (585' IGLD) seems justifiable since it is for pedestrian access. As conceptually submitted, this meets the "minimally necessary to achieve the intended and proper Page 5 purpose" requirements in the lakefront construction ordinance. However, the proposed pier will be frequently overtopped by waves and the concrete promenade should be detailed accordingly.

**Response: WPD received the comment.**

3. Proposed pier extends deeper/ further lakeward than existing steel sheet pile groin, will impact the shoreline shape, and should improve the shoreline/bluff protection in the immediate vicinity. The beach cells should be prefilled to minimize impacts to longshore sediment transport. I would expect the permit application to include an analysis of the

impacts to sediment transport and how the proposed shape of the beach fill was determined.

**Response: WPD received the comment.**

4. Overall, this plan set is more conceptual and includes less technical design information to comment further. These comments do not waive any future permitting requirements for lakefront construction ordinance or steep slope ordinance reviews.

**Response: WPD received the comment.**

5. Referring to 17.82.060, A, (8): I would not waive any of the required plans given the amount of development in the steep slope zone.

**Response: WPD received the comment.**

#### **Fire Department Comment Responses:**

1. Provide a clear, smooth, paved path (concrete walk) from parking lot to beach access.

**Response: The proposed access route from parking lot to beach will meet the Fire Departments request.**

2. Provide a knox box or other approved emergency access for the secured dog beach gate.

**Response: Will address this access need with the both Fire and Police Departments.**

3. Provide minimum 42" clear path between ornamental dog beach fencing and rock wall on the southern portion of the beach property.

**Response: The proposed dog beach fence is to be located on the existing steel groin to the south, offset 6' min. width from the new installed stone groin at the south neighbor property, as shown on sheet C138.**

#### **Police Department Comment Responses:**

1. In addition to Fire Department comments 1 and 3, the Police Department requests two additional improvements:

- a. Appropriate lighting for areas of the beach property for evening hours; and

**Response: Low-level bollard lights are strategically provided at transition points along the public ADA access ramp to the beach at the staircase at the bottom of the ramp where it transitions to the boardwalk. Additional lighting is provided at critical points along the boardwalk on the west side of the boardwalk cast onto the walking surface.**

**The park district does not want to encourage use of the park after hours but still provide a safety lit area should anyone need to access the beach after dark.**

- b. Installation/updating of security cameras that best capture entry/exit, areas of concern at the beach, etc.

**Response: Currently no security cameras are proposed. Staff can have a discussion with Police if there is requirement.**

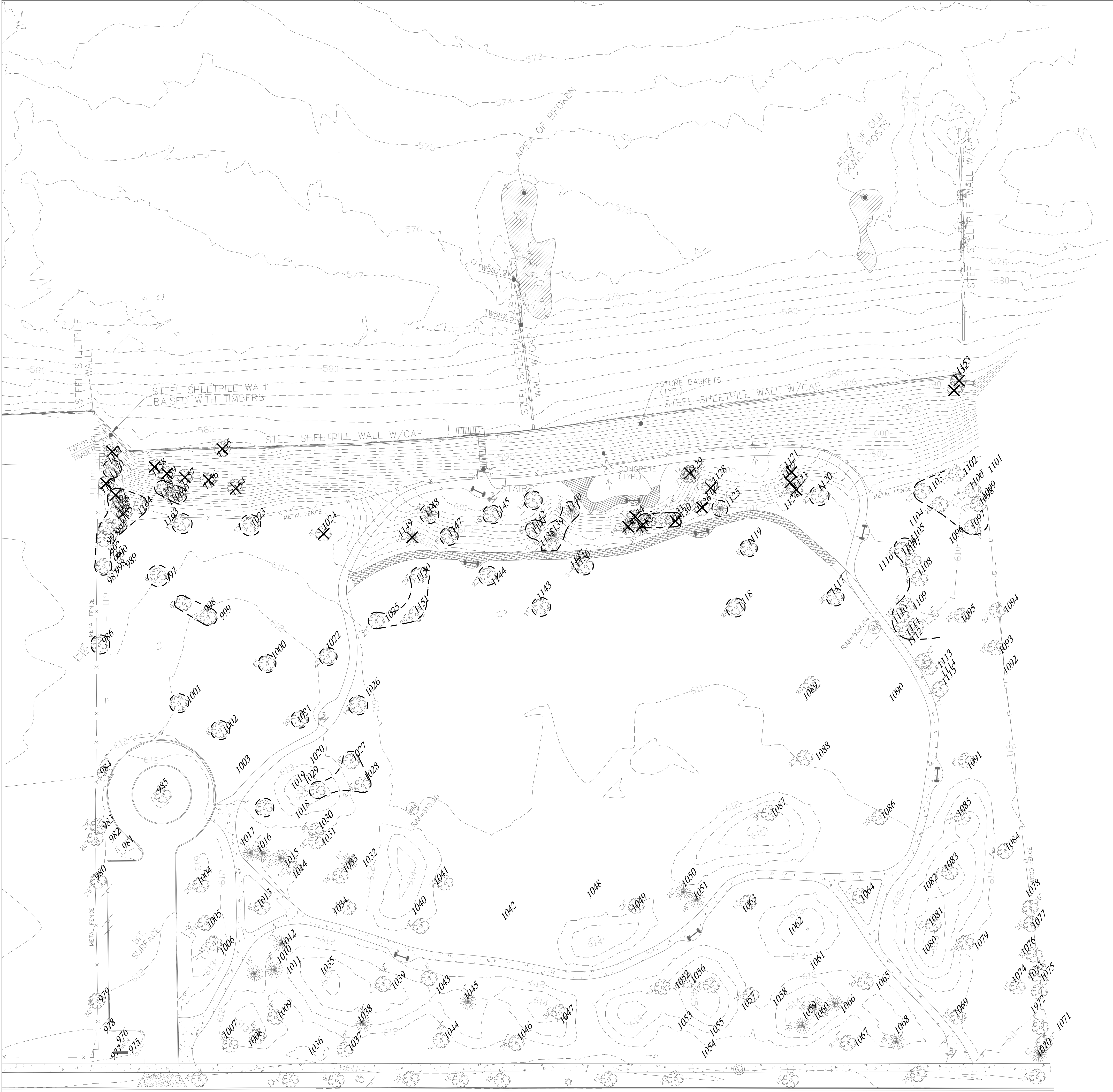
**Water & Electric Department Comment Responses:**

No comments to review

**Response: WPD received the comment.**

**END**





LEGEND

- Existing Trees to Remain
- Existing Tree to be Removed
- Tree Protection Fencing, typ.

TREE REMOVAL LIST

Tree Removals - Centennial Beach					
#	Caliper	Common Name	Species	Condition	Notes
1024	7	Tuliptree	Liriodendron tulipifera	2	
1121	11.75	Black Locust	Robinia pseudoacacia	3	
1122	13.75	Black Locust	Robinia pseudoacacia	3	
1123	12	Black Locust	Robinia pseudoacacia	4	
1126	13.75	Black Locust	Robinia pseudoacacia	3	forked at 3' with co-leaders
1127	15.75	Black Locust	Robinia pseudoacacia	4	
1129	12.5	Black Locust	Robinia pseudoacacia	3	forked at 3' with co-leaders
1130	18	Black Locust	Robinia pseudoacacia	3	
1133	18.25	Austrian Pine	Pinus nigra	3	
1134	11.75	Black Locust	Robinia pseudoacacia	3	
1135	10.25	Austrian Pine	Pinus nigra	3	
1149	19	Austrian Pine	Pinus nigra	4	
1154	13	Norway Maple	Acer platanoides	2	
1155	35	Black Willow	Salix nigra	5	fallen over uprooted, cut off at wall
1156	11.75	Norway Maple	Acer platanoides	3	
1157	7.25	Norway Maple	Acer platanoides	2	
1158	11	Siberian Elm	Ulmus pumila	6	snapped off at 8'
1159	8	Norway Maple	Acer platanoides	3	
1165	17	Mulberry	Morus spp.	4	
1168	8.5	Boxelder Maple	Acer negundo	3	
1169	9	Green Ash	Fraxinus pennsylvanica	6	dead
1171	24	Boxelder Maple	Acer negundo	5	on wooden wall
1180	6	Mulberry	Morus spp.	3	
1181	7.25	Mulberry	Morus spp.	3	
1182	6.75	Norway Maple	Acer platanoides	2	
1183	6	Norway Maple	Acer platanoides	2	
1184	7	Norway Maple	Acer platanoides	2	forked at base with a 5" co-leader
1185	7.25	Tree-of-heaven	Ailanthus altissima	3	

Notes: The condition of the trees shall be based on a six (6) point scale and one (1) being the best and six (6) being the worst.  
1 - Excellent, 2-Good to Fair, 3-Fair (average), 4-Fair to Poor, 5-Poor, 6-Dead

	Total Quantity of Trees	Total Caliper Inches
Trees to be Removed	28	269.5
Dead Trees to be Removed	4	79
Dead trees are not factored into the total number of replacement trees.		
	Total Quantity of Trees	Total Caliper Inches
Required Replacement Trees (3" caliper)	30	90
New Trees Provided (To be Confirmed)	9	36

TREE REMOVAL NOTES

- Contractor shall verify all utility locations (existing and proposed) along with existing conditions and grades (existing and proposed), and note any discrepancies to owner, engineer, and landscape architect immediately, before proceeding with any work.
- Base information for these plans was taken from engineer's site survey. Contractor shall verify all dimensions and locations of existing and proposed features, and familiarize themselves with any obstacles encumbering the work of this project.
- Any existing tree surveys or locations for these plans were prepared by the engineer or a certified arborist. See survey for more information.
- All tree removals shall be tagged and confirmed by the contractor with the landscape architect and owner.
- For tree removals in restoration areas, cut off flush with finished grade and leave roots in place so as not to disturb slope.
- For tree removals outside of restoration areas, grind out stumps to a minimum of 18" depth and remove all roots prior to installation of proposed materials. Bring to finish grade with soil fill per specifications.
- Keep all areas clean, neat, and orderly at all times. Legally dispose of all materials removed from the site per local codes and regulations.
- Contractor shall limit all work and disturbance to within designated project areas. It shall be the responsibility of the contractor to restore to the original condition any damage or disturbance outside these limits.
- Streets, sidewalks, and adjacent property shall be protected throughout the work as required by local codes and regulations and as approved by the city.
- Protect structures, utilities, sidewalks, pavements, fencing, furnishings, trees, and landscaping from damage caused by settlement, lateral movement, undermining, washouts, and other hazards created by site improvements. If any damage occurs, contractor shall repair to original condition at no additional cost.
- Inlet filters are required at all existing catch basins and manholes within project limit during construction period. See civil plans.



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Issued for  
Village of Winnetka  
Special Use Permit  
Rev. Date  
05/23/24

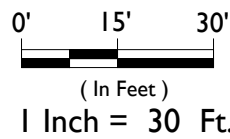
Project Title:

Site Improvements  
Centennial Park  
Winnetka, IL

Prepared For:

Winnetka Park District  
Winnetka, IL

Graphic Scale



Scale 1 Inch = 30 Ft.

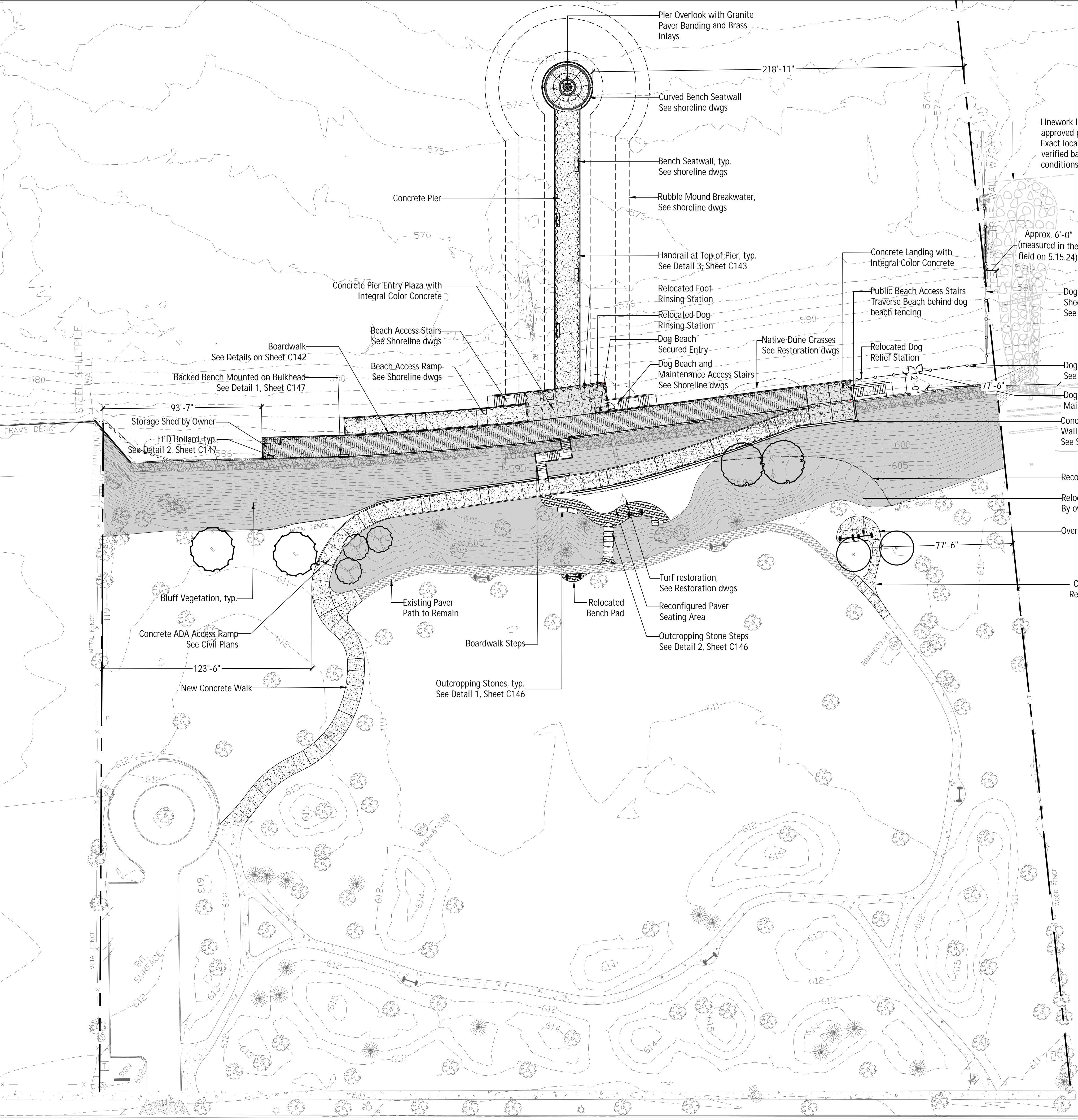
Drawing Title

Tree Preservation  
and Removals Plan

Sheet No.

C136





LEGEND

- Concrete Walks, typ.
- Salvaged and Reinstalled Unit Pavers, typ.
- Boardwalk, typ.
- Bluff Restoration, typ. See Restoration Notes.
- Proposed Shade Tree
- Proposed Understory Tree
- Existing Trees to Remain
- Existing Bench to be Relocated
- Backed Bench mounted on bulkhead
- Bollard, typ.
- Handrail Type A
- Handrail Type B
- Dog Beach Fencing
- Ornamental Fencing, to match existing

CENTENNIAL NON-CONFORMING ELEMENTS

CODE SECTION	NON-CONFORMING ELEMENTS	RATIONALE
Seeking approval for a variance to permit development in the 50' setback from the front yard ordinary high water mark (Elev. 581.5') per Zoning Ordinance Front and Corner Yard Setback	Steel sheet pile bulkhead	Structural framework for beach access and boardwalk
	Steel Sheet piling repairs	Primary shore protection per coastal engineering analysis
	Boardwalk (elev. 589.0 to 587.5)	Accessibility and shoreline protection
	ADA beach access ramp	ADA universal design
	Pier Structure	Swimming Beach stabilization and entablement of dog beach geometry
Section 17.30.050 subsection (c)(7)	Beach access stair	Site connectivity
	Dog beach	Recreational asset
	Beach native dune grasses	Environmental best practices per restoration ecologists
	Walkways and Sidewalks	ADA universal design and site connectivity
Seeking approval for an exception to permit development in the steep slope zone per the Steep Slope Regulations Development in the Steep Slope Zone	ADA pedestrian & maintenance ramp	ADA universal design
	Staircase to park (top of bluff to beach)	Site connectivity
	Outcropping stone steps	Recreational asset and site connectivity
	Seating nodes and bench pads	Recreational asset
	Bluff native restoration/revegetation	Environmental best practices per restoration ecologists
Section 17.82.040		
Seeking approval for an exception to permit development in the steep slope zone per the Steep Slope Regulations Development in the Steep Slope Zone	Steel sheet pile bulkhead	Structural framework for beach access and boardwalk
	Steel Sheet piling repairs	Primary shore protection per coastal engineering analysis
	Access ramp walls	Required per civil engineering
Section 17.82.040 subsection (b)		



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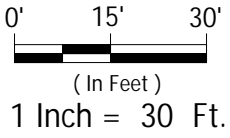
Project Title:

Site Improvements  
Centennial Park  
Winnetka, IL

Prepared For:

Winnetka Park District  
Winnetka, IL

Graphic Scale



Scale 1 Inch = 30 Ft.

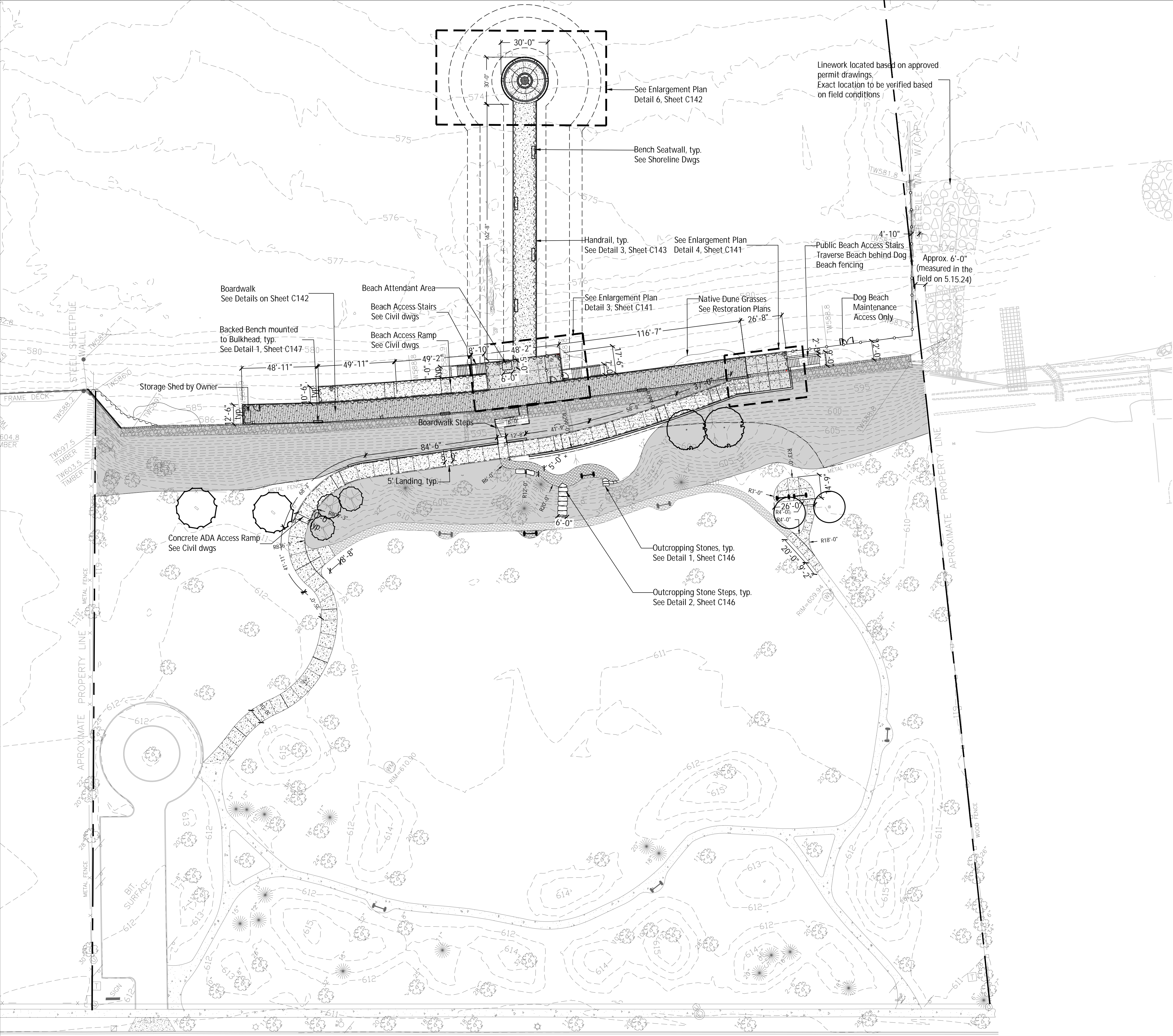
Drawing Title

Overall Site Plan

Sheet No.

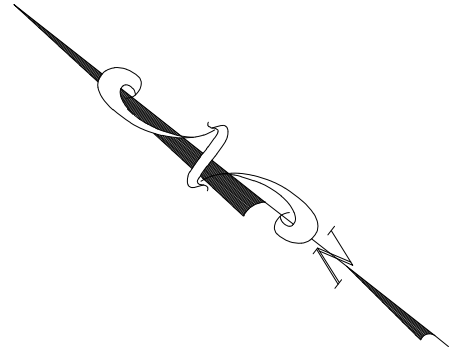
C137





LEGEND

- Concrete Walks, typ.
- Salvaged and Reinstalled Unit Pavers, typ.
- Boardwalk, typ.
- Bluff Restoration, typ.  
See Restoration Notes, Sheet C149
- Proposed Shade Tree
- Proposed Understory Tree
- Existing Trees to Remain
- Existing Bench to be Relocated
- Backed Bench mounted on bulkhead
- Bollard, typ.
- Handrail Type A
- Handrail Type B
- Dog Beach Fencing
- Ornamental Fencing, to match existing



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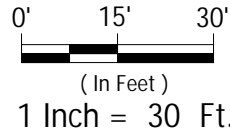
Project Title:

Site Improvements  
Centennial Park  
Winnetka, IL

Prepared For:

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Winnetka, IL

Graphic Scale



Scale 1 Inch = 30 Ft.

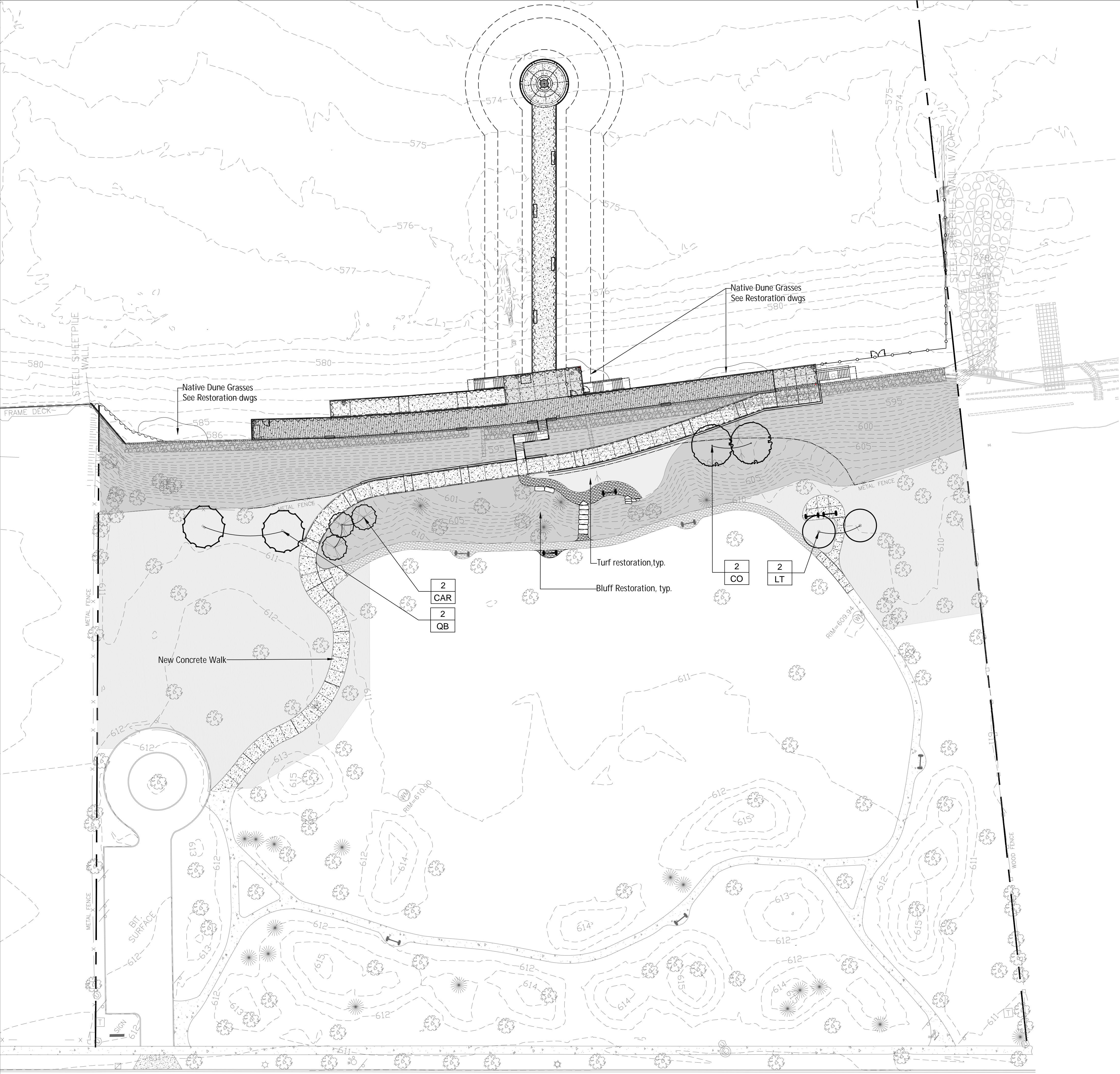
Drawing Title

Layout Plan

Sheet No.

C138





LEGEND

- Concrete Walks, typ.
- Salvaged and Reinstalled Unit Pavers, typ.
- Boardwalk, typ.
- Bluff Restoration, typ.  
See Restoration Notes, Sheet C149
- Proposed Shade Tree
- Proposed Understory Tree
- Existing Trees to Remain
- Existing Bench to be Relocated
- Backed Bench mounted on bulkhead
- Bollard, typ.
- Handrail Type A
- Handrail Type B
- Dog Beach Fencing
- Ornamental Fencing, to match existing

PLANT SCHEDULE

SYMBOL	QTY	BOTANIC NAME	COMMON NAME	SIZE	SPACING
DECIDUOUS TREES					
CO 3	2	Celtis occidentalis	Common Hackberry	4" caliper	B&B
LT 3	2	Liriodendron tulipifera	Tulip Tree	4" caliper	B&B
QM 3	2	Quercus macrocarpa	Bur Oak	4" caliper	B&B
ORNAMENTAL TREES					
CAR 3	3	Carpinus caroliniana	American Hornbeam	3" caliper	B&B



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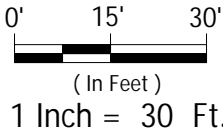
Project Title:

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Centennial Park  
Winnetka, IL

Prepared For:

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Winnetka, IL

Graphic Scale



Scale 1 Inch = 30 Ft.

Drawing Title

Landscape Plan

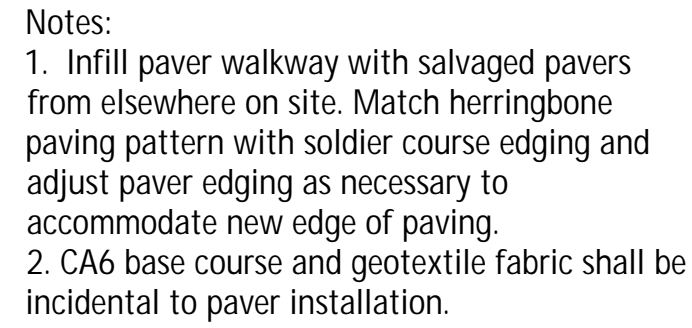
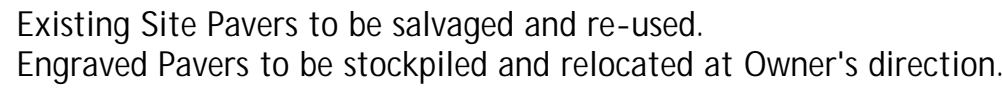
Sheet No.

C139









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

d-unit-paving



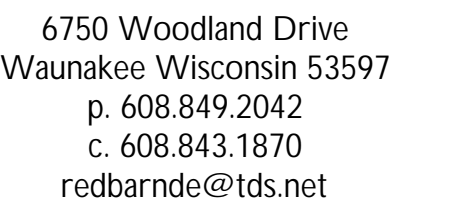
Scale: 1" = 5'-0"



Scale: 1" = 5'-0"



Scale: 1" = 5'-0"



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### Graphic Scale

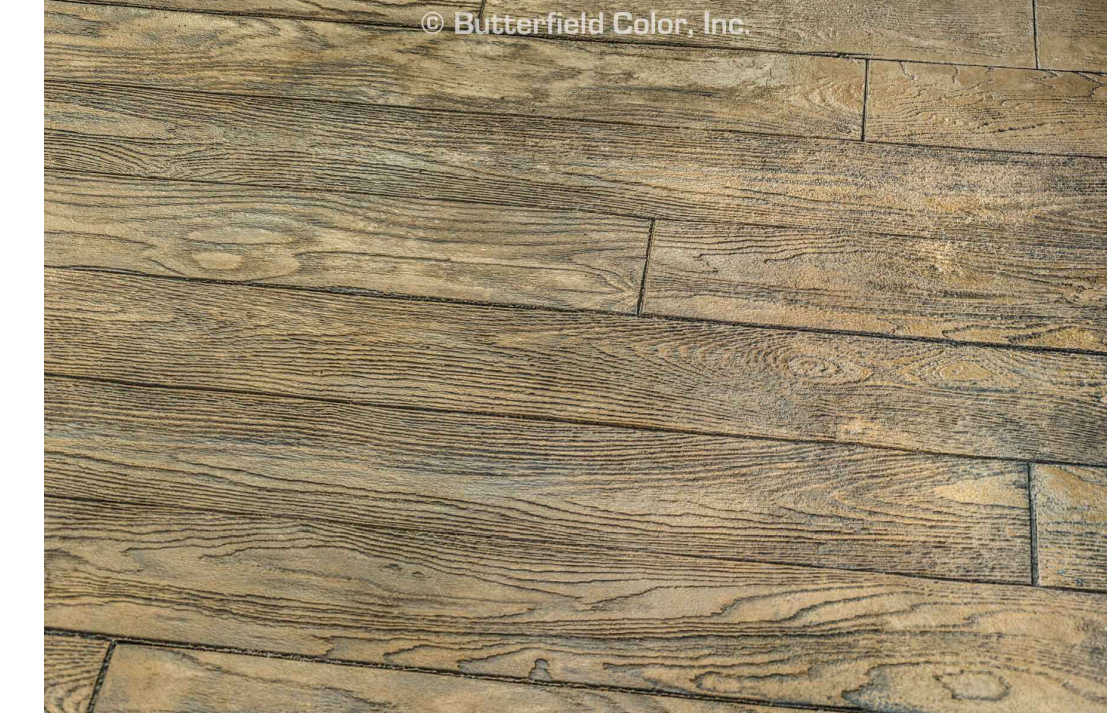
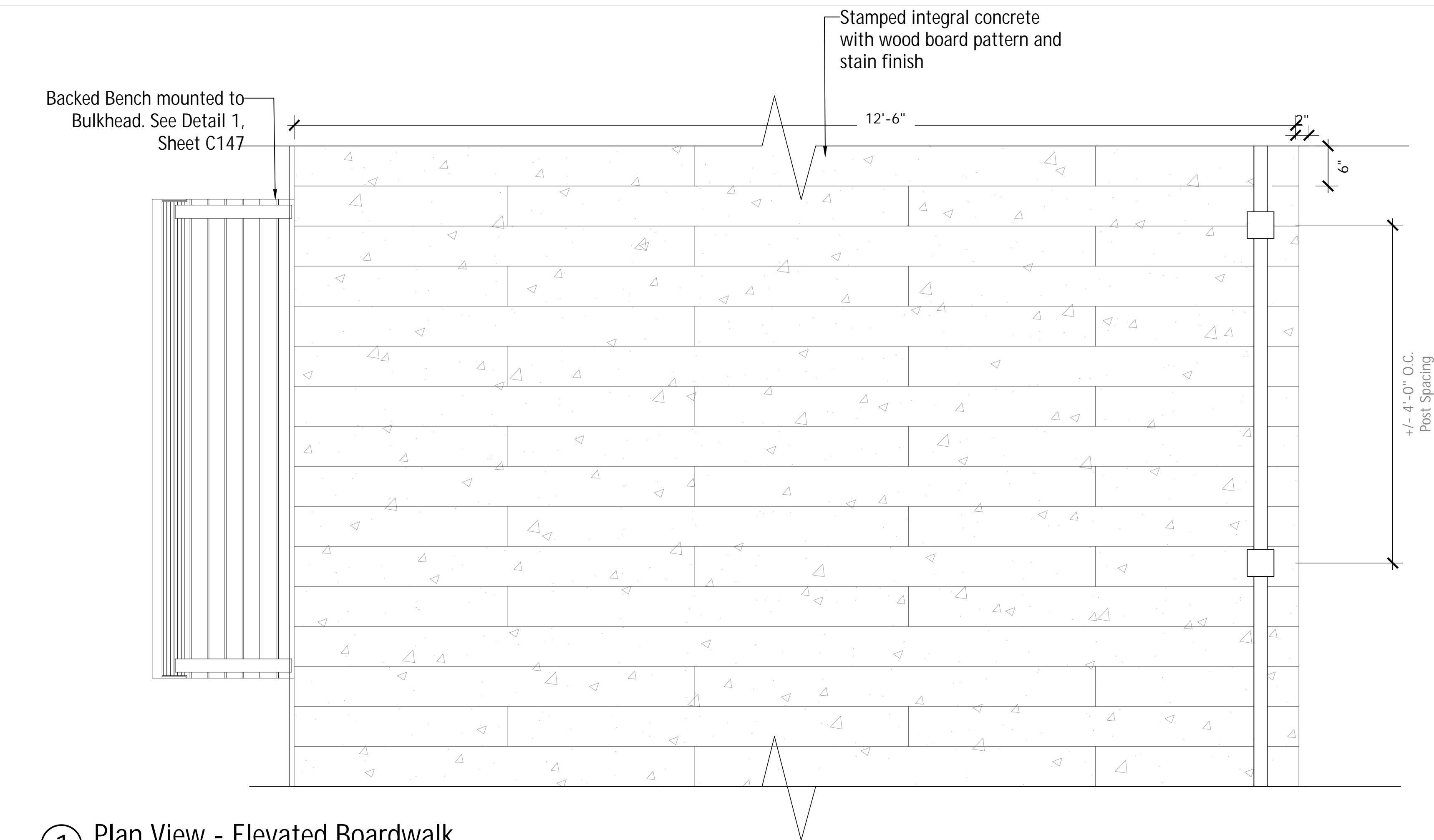
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Drawing Title
Hardscape Details

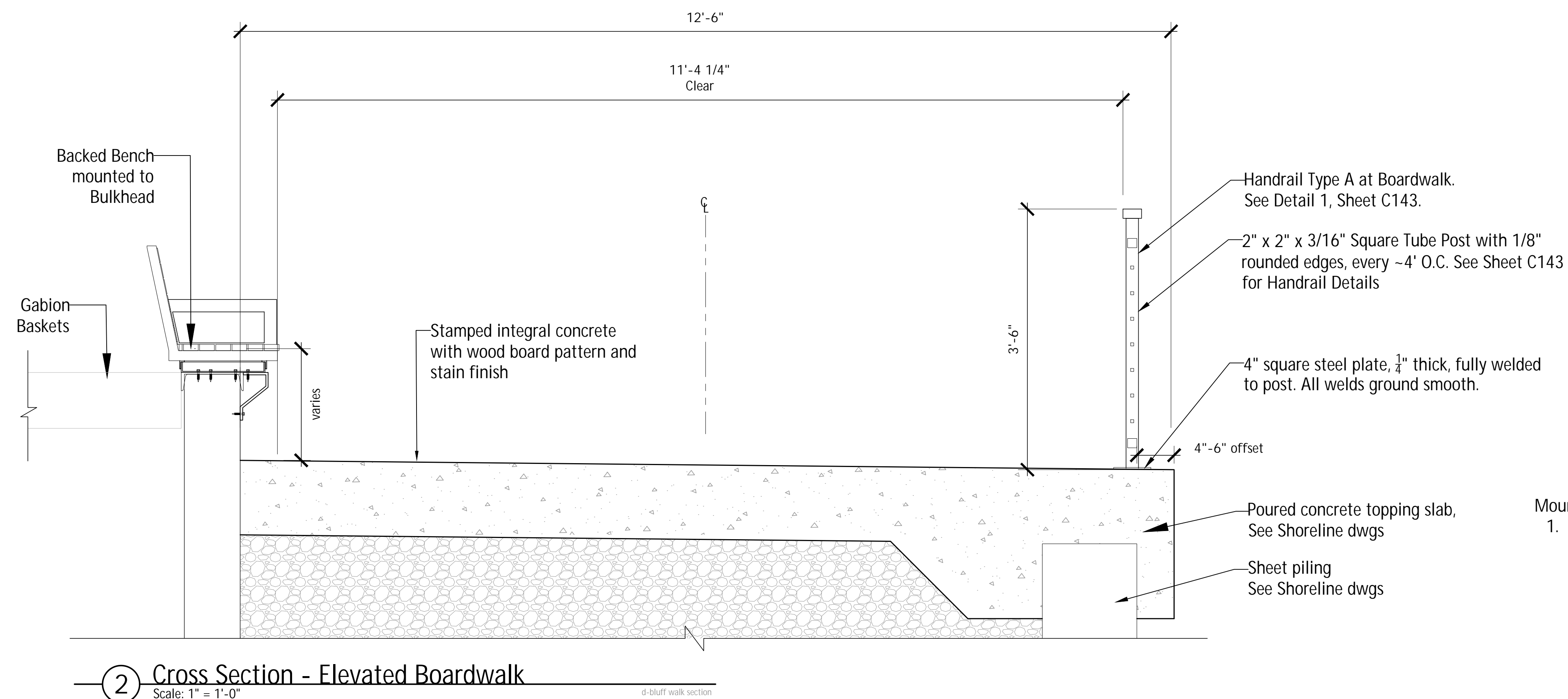
Sheet No.

C141





Stamped Concrete with 6" Wood Pattern  
Integral color concrete with antiquing release agent



Mounting Notes:

1. Bench mounting bracket to be welded to the channel cap in the field. Channel cap to be fully welded in the field for the entire length of the bench prior to mounting the bench bracket.



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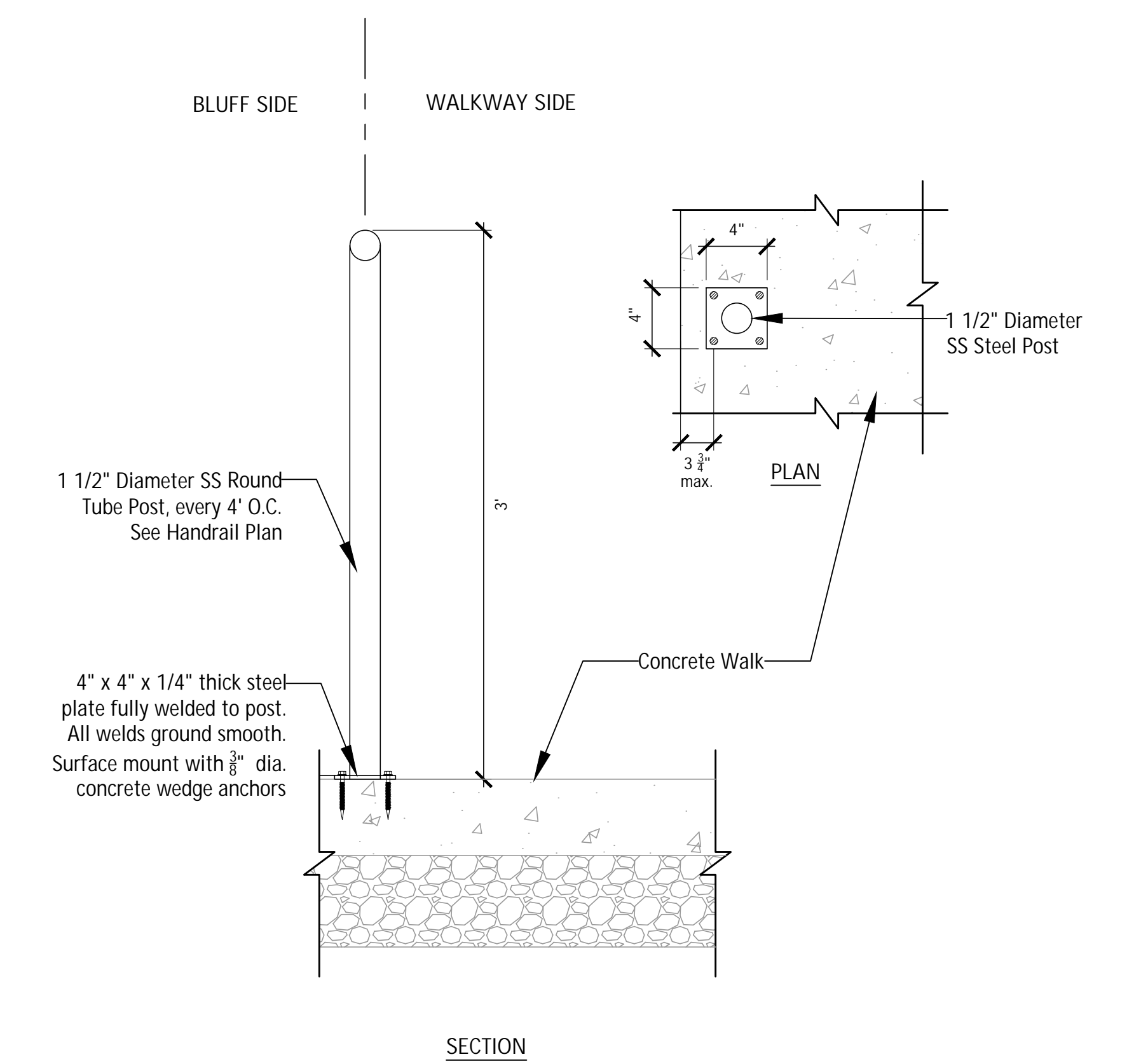
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Drawing Title	Boardwalk Details
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Sheet No. C142

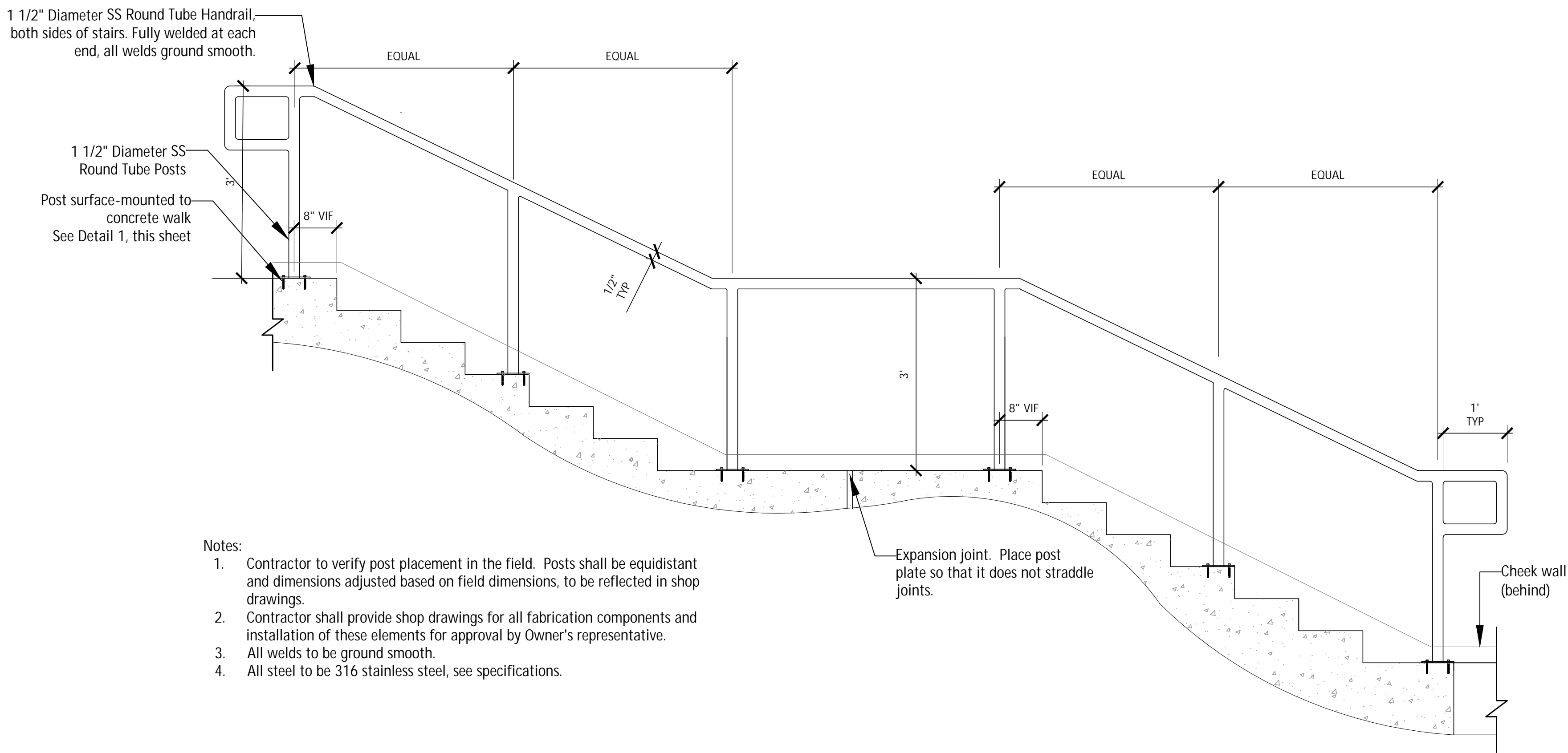






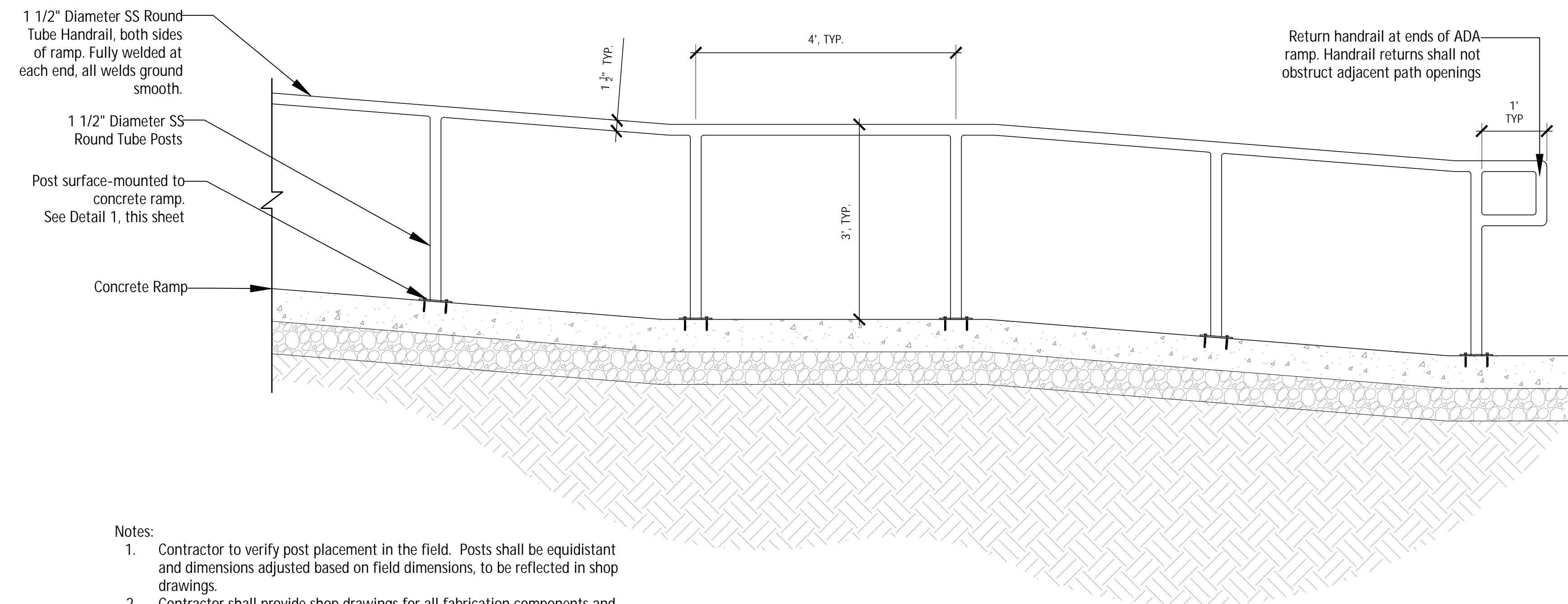
1 Section - Handrail Type B at Concrete (Surface Mount)  
Scale: 1 1/2" = 1'-0"

d-handrail at conc



3 Elevation - Handrail Type B at Beach Access Steps  
Scale: 3/4" = 1'-0"

d-conc handrail ext steps elevation



- Notes:
- Contractor to verify post placement in the field. Posts shall be equidistant and dimensions adjusted based on field dimensions, to be reflected in shop drawings.
  - Contractor shall provide shop drawings for all fabrication components and installation of these elements for approval by Owner's representative.
  - All welds to be ground smooth.
  - All steel to be 316 stainless steel, see specifications.

2 Elevation - Handrail Type B at ADA Ramp and Beach Access Ramp  
Scale: 3/4" = 1'-0"

d-handrail at ada ramp



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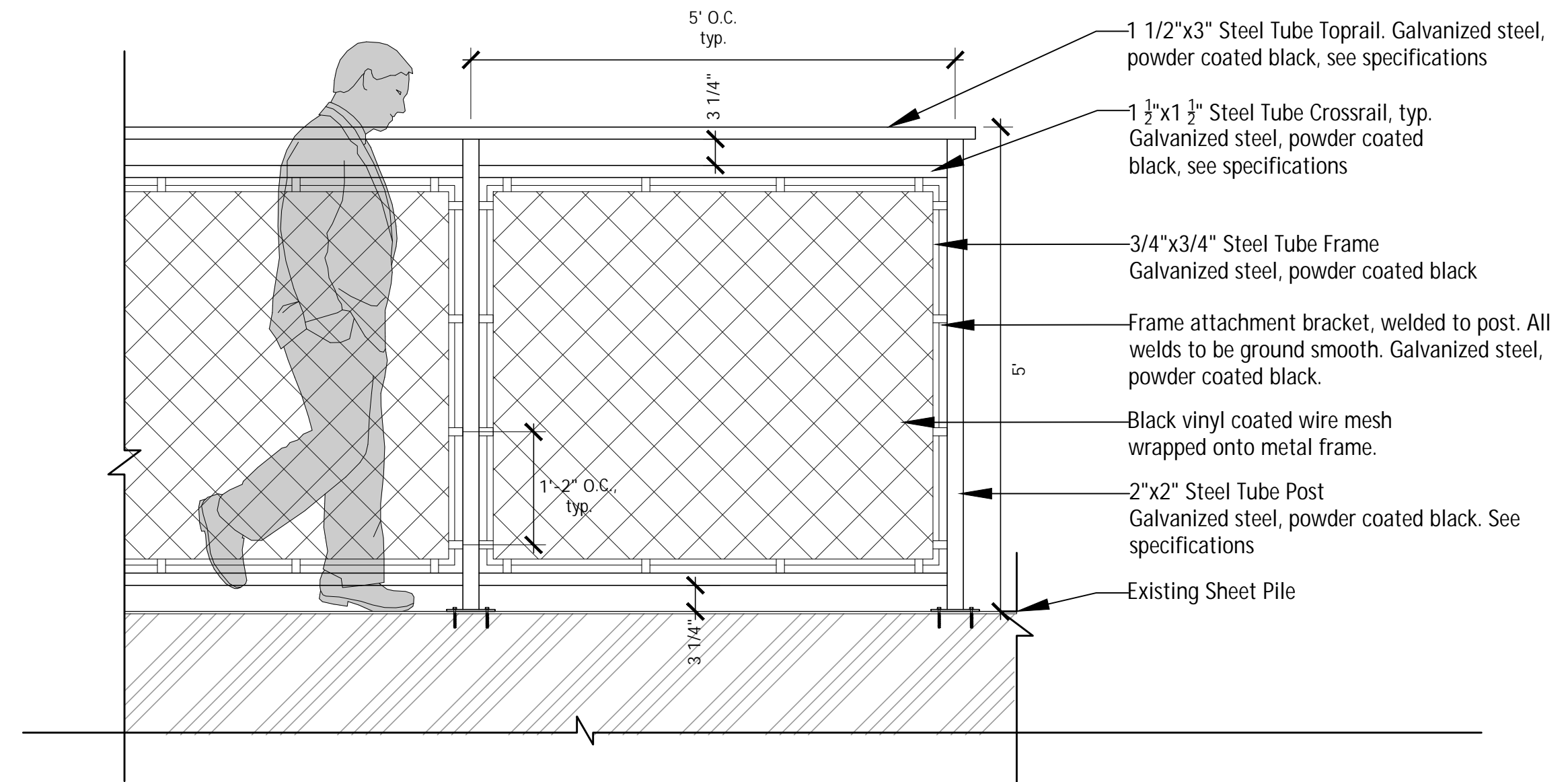
Winnetka Park District  
Winnetka, IL

Graphic Scale

Scale None

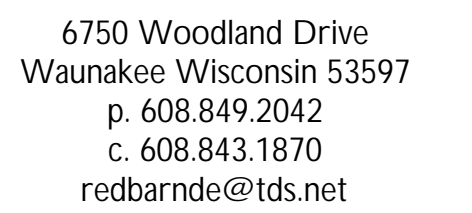
Drawing Title  
Handrail Details

Sheet No.  
C144



### 3 Elevation - Dog Beach Fence at Sheet Piling

2 Elevation - Dog Beach Fence at Beach  
Scale: 3/4" = 1'-0"



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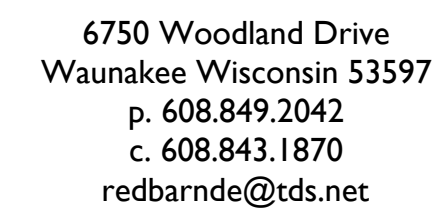
Winnetka Park District  
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### Graphic Scale

Scale	None
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Drawing Title  
Fencing Details

C145



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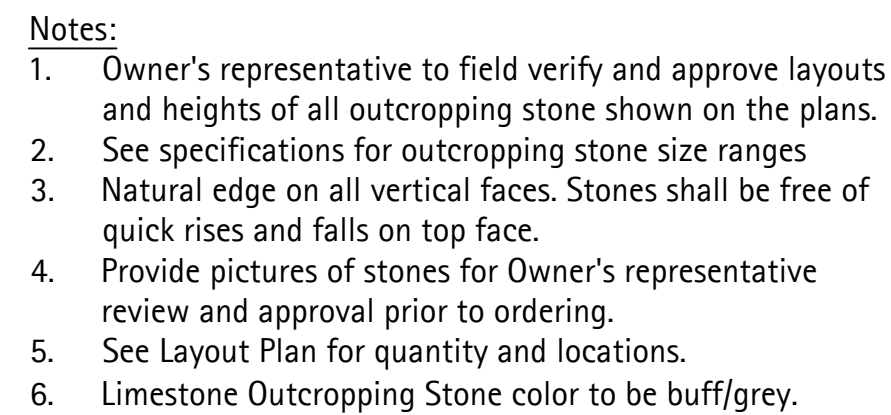
Site Improvements  
Centennial Park  
Winnetka, IL

Winnetka Park District  
Winnetka, IL

Scale	None
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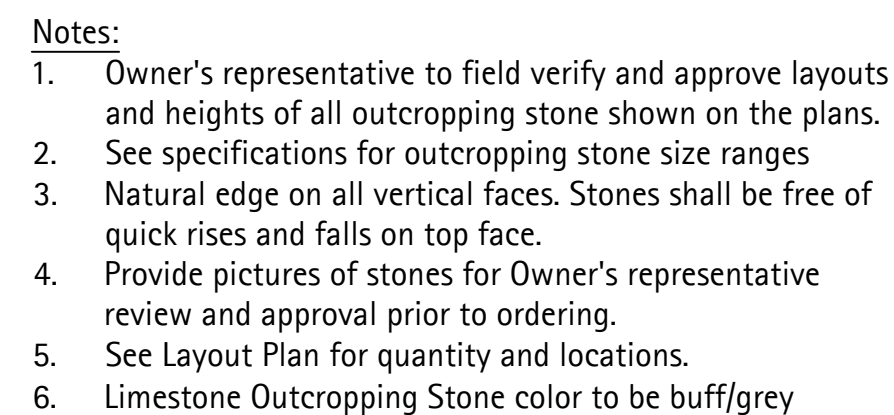
Drawing Title
Furnishings

C146



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

d-stone-outcroppings-sec



Scale: 1" = 1'-0"









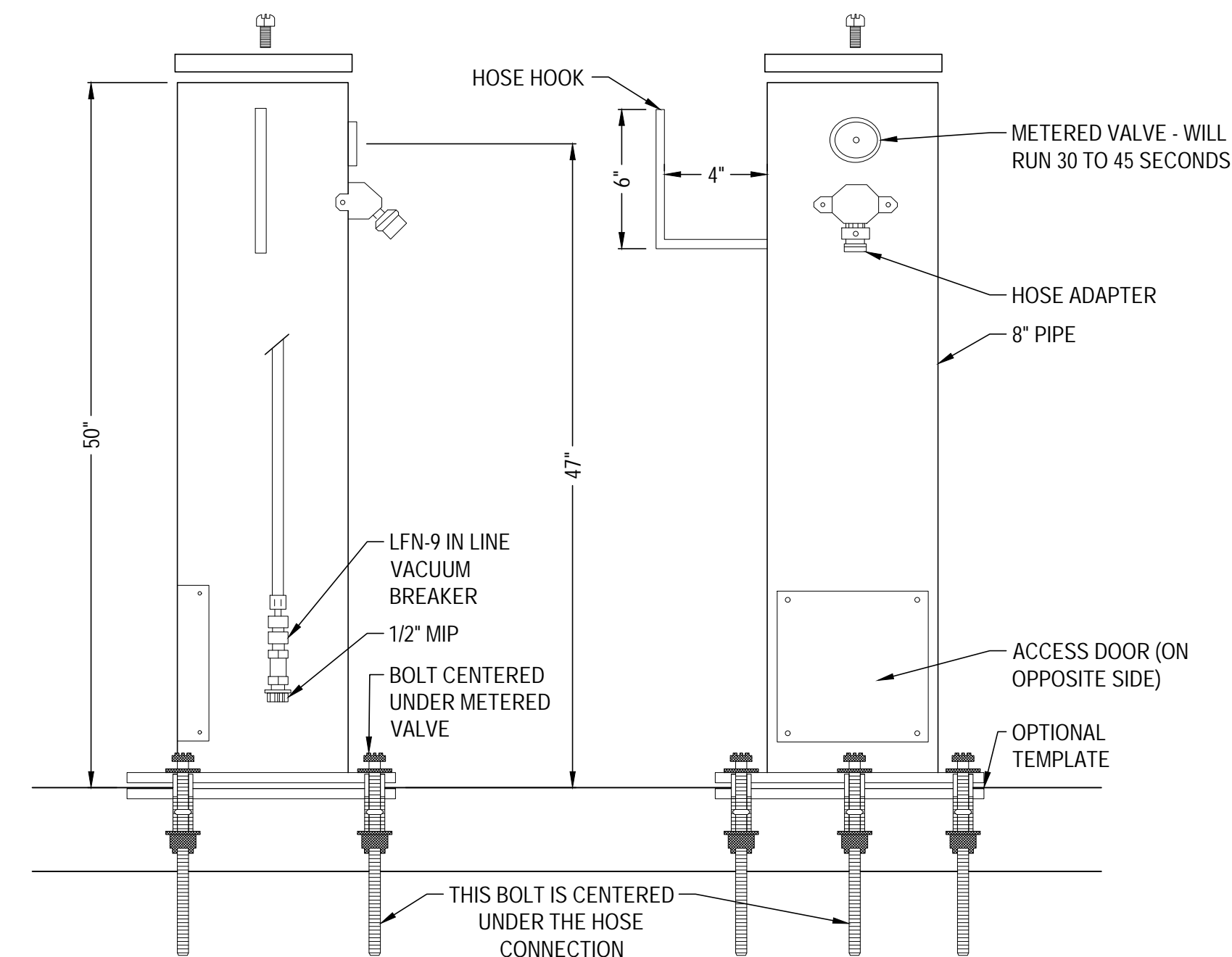
# 1 Dog Rinse Station to be Relocated

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

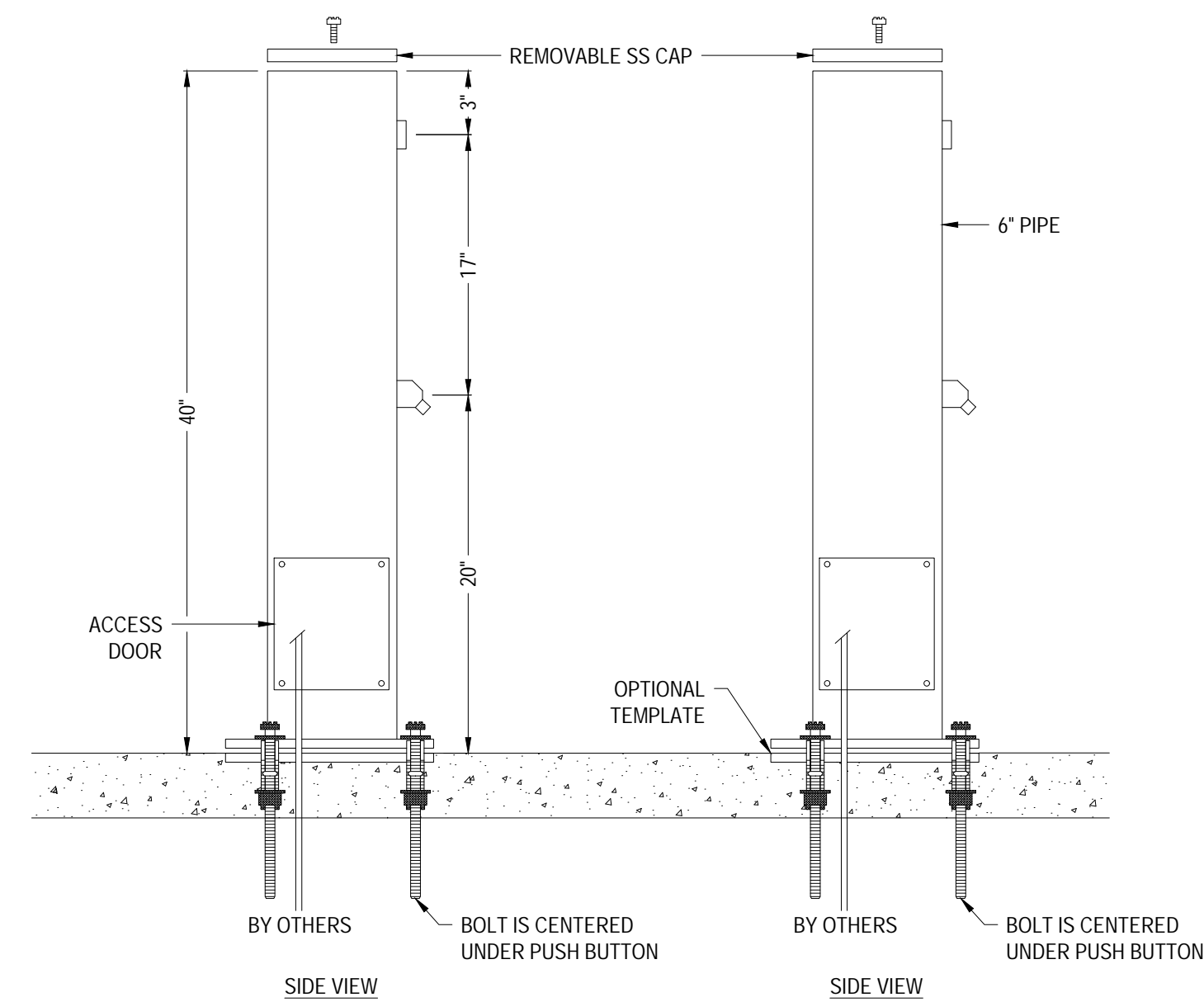


2 Pet Relief Station to be Relocated, by Owner

Model 505 SM Rinse Station by Most Dependable Fountains, Inc.

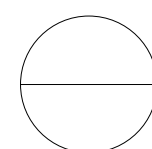


Model 525 SM Foot Tower by Most Dependable Fountains, Inc.



NOTES:

1. OPTIONAL STAINLESS STEEL SURFACE CARRIER RECOMMENDED ON SURFACE MOUNT INSTALLATIONS.
2. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
3. DO NOT SCALE DRAWING.
4. THIS DRAWING IS INTENDED FOR USE BY ARCHITECTS, ENGINEERS, CONTRACTORS, CONSULTANTS AND DESIGN PROFESSIONALS FOR PLANNING PURPOSES ONLY. THIS DRAWING MAY NOT BE USED FOR CONSTRUCTION.
5. ALL INFORMATION CONTAINED HEREIN WAS CURRENT AT THE TIME OF DEVELOPMENT BUT MUST BE REVIEWED AND APPROVED BY THE PRODUCT MANUFACTURER TO BE CONSIDERED ACCURATE.
6. CONTRACTOR'S NOTE: FOR PRODUCT AND COMPANY INFORMATION VISIT [www.CADdetails.com/info](http://www.CADdetails.com/info) AND ENTER REFERENCE NUMBER 3354-10.12.



MODEL 525 SM FOOT TOWER

SHOWN W/ OPTIONAL 6" SS SURFACE CARRIER



Powder coated finish. Color to be Chrome



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Winnetka, IL

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Winnetka, IL

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Scale	None
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Drawing Title
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## Furnishings

Sheet No.

C148



RESTORATION NOTES

Invasive and Noxious Species Treatment – 1.24 ac.

1. The Bluff Restoration Zone has steep, irregular slopes and a relatively dense understory with some significant stands of invasive shrubs, trees, and vines. The native herbaceous plant community here is not particularly well established throughout most portions of this zone. There are small clusters of native spring ephemeral species that should be avoided during late–winter and early–spring target species treatment applications.
2. Target non–native and invasive species are to be treated within the limits of the restoration project area as shown on the plan.
3. Only non–native tree and shrub species with DBH < 8"are to be removed/treated as part of this project. Exceptions to the size class limit apply to invasive and highly aggressive species noted in the target species list.
4. All tree, shrub, and vine greater than 1’ in height shall have their stumps cut to a height less than or equal to 2"above the ground surface.
5. All cut stumps will be treated with an herbicide containing glyphosate as an active ingredient and applied at the manufacturer's recommended rate for dormant stump treatment. If the area of treatment is within 50’ of the lakeshore, an herbicide approved for aquatic use shall be used. Cut stumps will be treated within 30 minutes of cutting.
6. Any cut stumps that are not treated within the specified time limit, or cut to the correct height, should be recut and treated.
7. Trees, shrubs, and vines less than 1’ in height shall receive a foliar treatment once the leaves have fully emerged.
8. Target woody species removal and cut stump treatment will be conducted during the winter of 2024/2025. Woody and herbaceous target species foliar treatments to begin in spring of 2025.
9. Quantity and timing of herbicide treatments will be dependent upon species to be controlled and should follow industry standard practices and herbicide manufacturer's recommendations to achieve an 80% reduction in target species cover by the end of the 2025 growing season.
10. Supplemental seeding and planting to be conducted in accordance with the Restoration Notes and Drawings.

Bluff Restoration Zone –27,726 sq. ft.

1. Plant material shall be obtained from a nursery that specializes in native plant production and is produced from material sourced from within 250 miles of the site.
2. Plugs shall be at least 2” in diameter and 5” deep and be grown in either a 38– or 50– cell propagation tray.
3. Install plant plugs on 18” centers in offset rows (triangular pattern) throughout the bluff restoration zone following 2025 herbaceous species herbicide applications. Plants should be installed in individual species clusters of 5–7 plants.
4. Plant installation should occur during typical perennial planting windows. If installation is to be performed during the dry summer months, the contractor will irrigate as needed to promote the successful establishment of the plant material.
5. A cover crop of seed oats should be spread at a rate of 35 lbs./acre following the plug installation.

Dune Grass Planting Zone –680 sq. ft.

1. This zone is currently open sand that is adjacent to construction activities.
2. Install bare root plants on 8” centers in offset rows (triangular pattern) throughout the dune grass restoration zone in the spring or fall following the conclusion of construction activities. The bare root plants should be planted 10” or more beneath the surface.
3. In planting areas with slopes 3H:1V or greater, the area shall be covered with a single layer of a biodegradable double–net straw blanket, such as BioNet® S150BN® or similar product. Blanket shall be anchored using 6” wooden stakes, such as an Eco–stake. Installation should follow the manufacturer's recommendations for the site conditions.
4. All bare root plants should be inspected prior to installation, any moldy or rotted plants shall be discarded. Installation of this type of plant material is unlikely to survive.

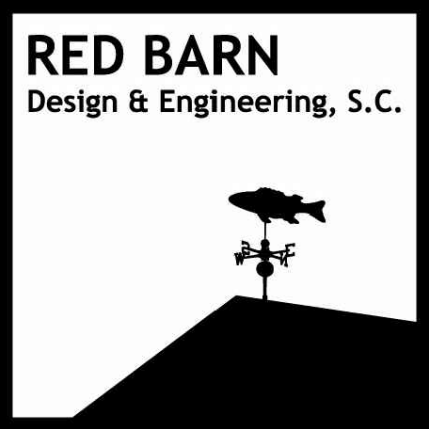
Turf Restoration Zone – 25,551 sq. ft.

1. Prior to seeding, the area shall be tilled to a depth of 4” and any branches, rocks, or debris greater than 2” in diameter shall be removed.
2. A general–purpose turf mix will be selected that matches the existing turf growing in the park and installed per the manufacturer's recommendations for the selected installation method.
3. Seed shall be applied with either a broadcaster or hydraulically. If applied with a broadcast method, half the seed shall be installed while working in one direction. The second half of seed shall be applied while going in a direction perpendicular to the first pass to ensure 100% coverage of the site. The area should be lightly rolled or raked after seeding to ensure adequate seed to soil contact.
4. Following seed installation, the seeded area shall be covered with either straw or hydraulic mulch. Straw should be applied at 2 tons/acre and crimped or anchored in place. Hydraulic mulch should be paper– or wood–based and applied at the manufacturer's rate for the site conditions.
5. Seeded areas shall be irrigated by the contractor during the establishment period until a dense and consistent stand of grass is established.

Bluff Restoration Zone Planting List		
Centennial Park		
Species	Common Name	Plug Amount
<i>Asclepias tuberosa</i>	Butterfly weed	1432
<i>Calamovilfa longifolia</i>	Sand Reed Grass	2046
<i>Elymus virginicus</i>	Virginia Wild Rye	2046
<i>Euphorbia corollata</i>	Flowering Spurge	818
<i>Helianthus occidentalis</i>	Western sunflower	614
<i>Monarda fistulosa</i>	Wild bergamot	1227
<i>Panicum virgatum</i>	Switch grass	1227
<i>Penstemon hirsutus</i>	Hairy beard-tongue	409
<i>Schizachyrium scoparium</i>	Little Bluestem	2046
<i>Symphyotrichum ericoides</i>	Heath Aster	818
<i>Symphyotrichum sericeum</i>	Silky aster	409
<i>Symphyotrichum shortii</i>	Short's Aster	409
<i>Verbena stricta</i>	Hoary vervain	409
Total		13910

Dune Grass Restoration Zone Planting List		
Centennial Park		
Species	Common Name	Bare Root Amount
<i>Ammophila breviligulata</i>	Marram Grass	1733

Target Species List		
Species	Common Name	Tree Removal Size Limit (If Applicable)
<i>Acer platanoides</i>	Norway Maple	≤8" DBH
<i>Ailanthus altissima</i>	Tree-of-Heaven	All Sizes
<i>Alliaria petiolata</i>	Garlic Mustard	
<i>Arctium minus</i>	Common Burdock	
<i>Artemisia vulgaris</i>	Common Mugwort	
<i>Berberis thunbergii</i>	Japanese Barberry	
<i>Celastrus orbiculatus</i>	Asian Bittersweet	
<i>Centaurea stoebe</i>	Spotted Knapweed	
<i>Cirsium arvense</i>	Canada Thistle	
<i>Conium maculatum</i>	Poison hemlock	
<i>Dipsacus</i> spp.	Teasel	
<i>Elaeagnus umbellata</i>	Autumn Olive	
<i>Euonymus alatus</i>	Winged Euonymus	All Sizes
<i>Euonymus fortunei</i>	Winter creeper	
<i>Hedera</i> spp.	Ivy	
<i>Humulus japonicus</i>	Japanese Hop	
<i>Leymus arenarius</i>	European Lyme Grass	
<i>Ligustrum</i> spp.	Privet	All Sizes
<i>Lonicera japonica</i>	Japanese honeysuckle	
<i>Lonicera</i> spp.	Bush honeysuckles	All Sizes
<i>Lotus corniculatus</i>	Bird's Foot Trefoil	
<i>Lysimachia nummularia</i>	Moneywort	
<i>Lythrum salicaria</i>	Purple Loosestrife	
<i>Melilotus</i> spp.	Sweet Clover	
<i>Morus alba</i>	White Mulberry	All Sizes
<i>Pastinaca sativa</i>	Wild Parsnip	
<i>Phalaris arundinacea</i>	Reed Canary Grass	
<i>Phragmites australis</i>	Common Reed	
<i>Reynoutria</i> spp.	Knotweed	
<i>Rhamnus cathartica</i>	Common Buckthorn	All Sizes
<i>Rhus typhina</i>	staghorn sumac	≤4" DBH
<i>Robinia pseudoacacia</i>	Black Locust	All Sizes
<i>Rosa multiflora</i>	Multiflora Rose	
<i>Securigera varia</i>	Crown Vetch	
<i>Solidago sempervirens</i>	Seaside Goldenrod	
<i>Typha</i> spp.	Cattail	
<i>Ulmus pumila</i>	Siberian Elm	All Sizes
<i>Vinca</i> spp.	Periwinkle	
<i>Vitis</i> spp.	Grapevines	
*List includes some of the region's commonly encountered noxious and invasive species, but not limited to this list.		



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Winnetka Park District  
Winnetka, IL

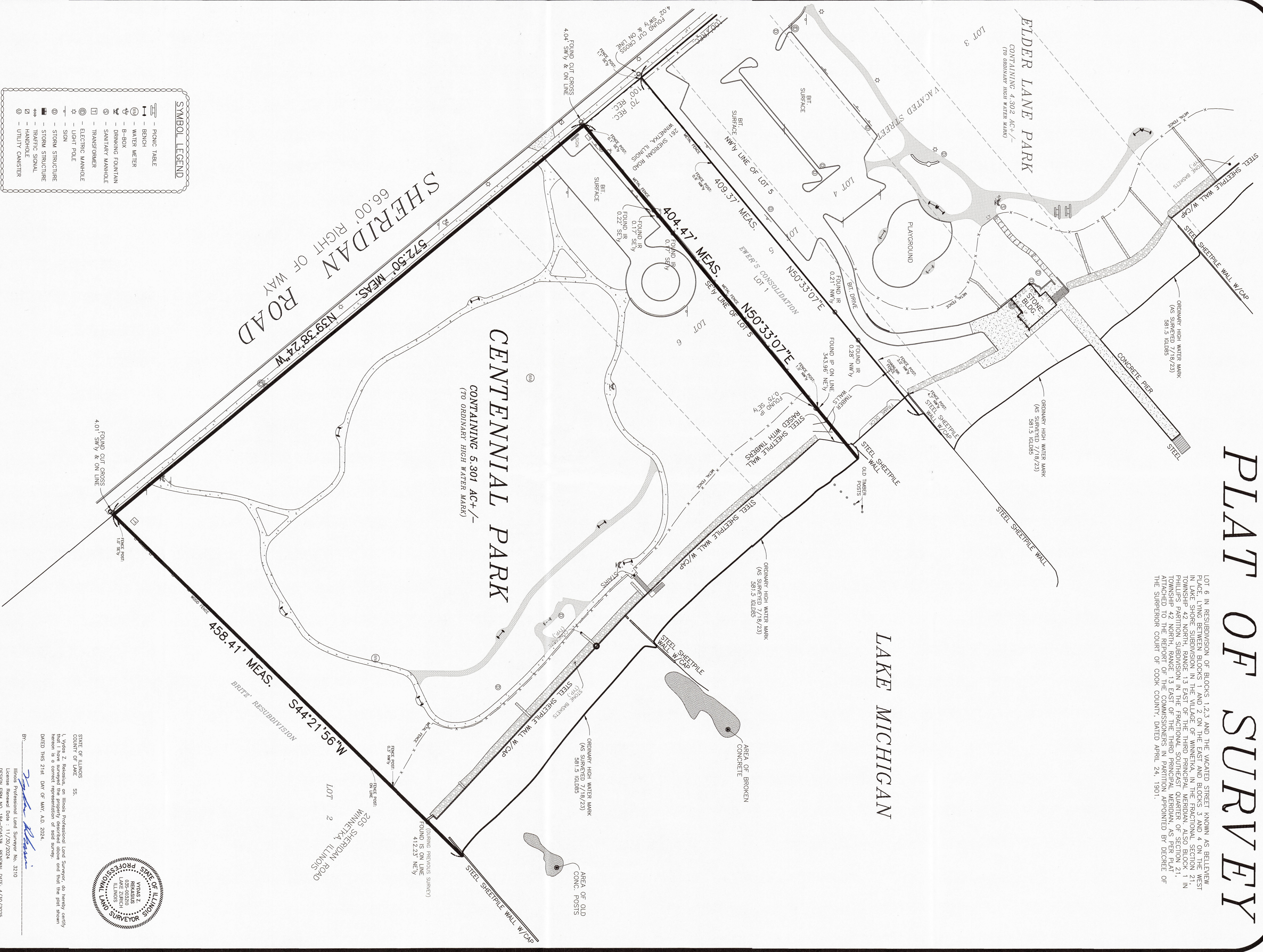
Graphic Scale

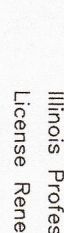
Scale None

Drawing Title  
Restoration Notes



LOT 6 IN RESERVATION OF BLOCKS 1,2,3 AND THE VACATED STREET KNOWN AS BELLEVUE LANE, LYING BETWEEN BLOCKS 1 AND 2 ON THE EAST AND BLOCKS 3 AND 4 ON THE WEST IN LAKE SHORE SUBDIVISION IN THE VILLAGE OF WINNETKA, IN THE FRACTIONAL SECTION 21, TOWNSHIP 42 NORTH, RANGE 13 EAST OF THE THIRD PRINCIPAL MERIDIAN, ALSO BLOCK 1 IN PHILLIPS PARTITION SUBDIVISION IN THE FRACTIONAL, SOUTHEAST QUARTER OF SECTION 21, TOWNSHIP 42 NORTH, RANGE 13 EAST OF THE THIRD PRINCIPAL MERIDIAN, AS PER PLAT TO THE RECORD OF THE COMMISSIONERS IN PARTITION APPOINTED BY DECREE OF THE SUPERIOR COURT OF COOK COUNTY, DATED APRIL 24, 1901.



STATE OF ILLINOIS  
COUNTY OF LAKE  
SS.  
I, Wade Z. Raskelme, an Illinois Professional Land Surveyor, do hereby certify that I have surveyed the property described above and that the plot shown hereon is a correct representation of said survey.  
DATED this 21st DAY OF MAY, A.D. 2024.  
BY:   
Illinois Professional Land Surveyor No. 3210  
License Renewal Date : 1/1/2024  
CENSUS FIRM NO. 184-004539 RENEWAL DATE: 4/30/2025

1. Please check Legal Description with deed and report any discrepancy immediately.
2. Compare all points before building by same and report any discrepancies at once.
3. Building lines, if any, allow hereon on building lines shown on the recorded subdivision plat or called out in the title report.
4. Consult local authorities for building lines established by local ordinances.

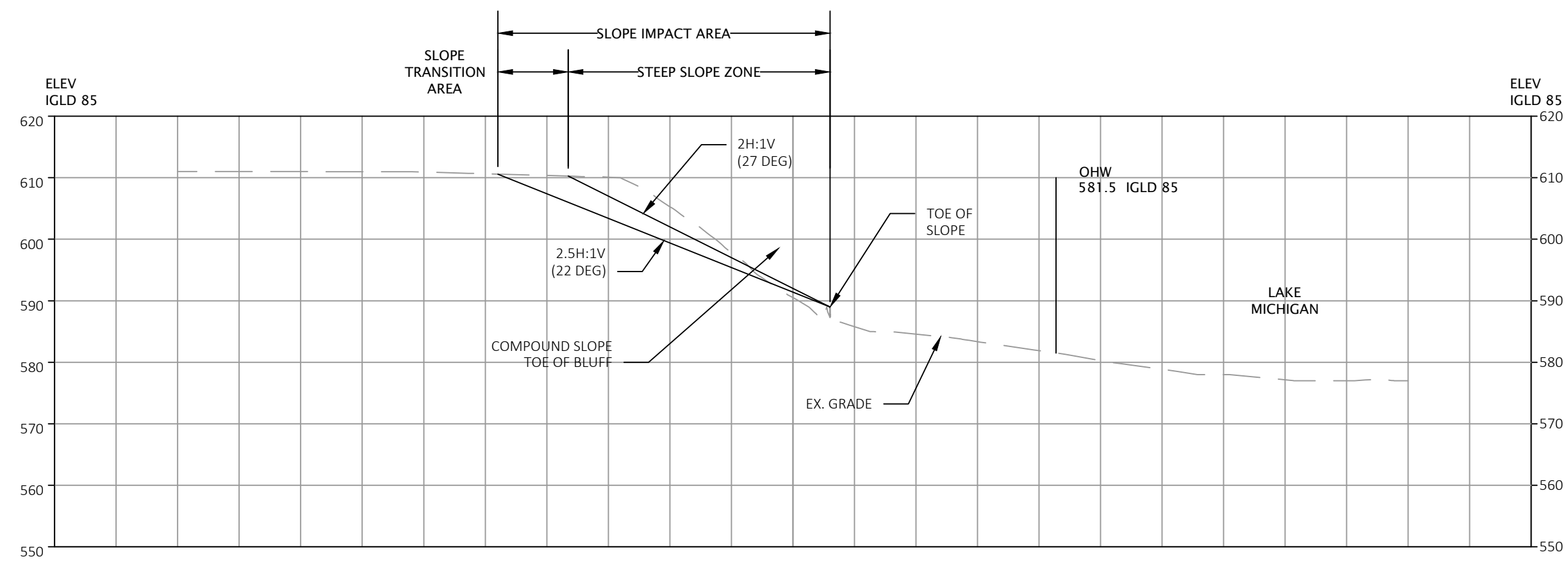
This professional service conforms to the current Illinois minimum standards for a boundary survey.

**TERRA TECHNOLOGY  
LAND SURVEYING, INC.**  
24198 ROSE AVE. LAKE ZURICH, ILLINOIS 60047  
PHONE: (847) 540-8606 E-MAIL: [TTLS@SCGLOBAL.NET](mailto:TTLS@SCGLOBAL.NET)  
JOB NO.: 20-0078 SURVEY DATE: 7/16/2023  
DWG FILE: JUNE2023\BOUNDARY2024\BOUNDARY-CENT.DWG





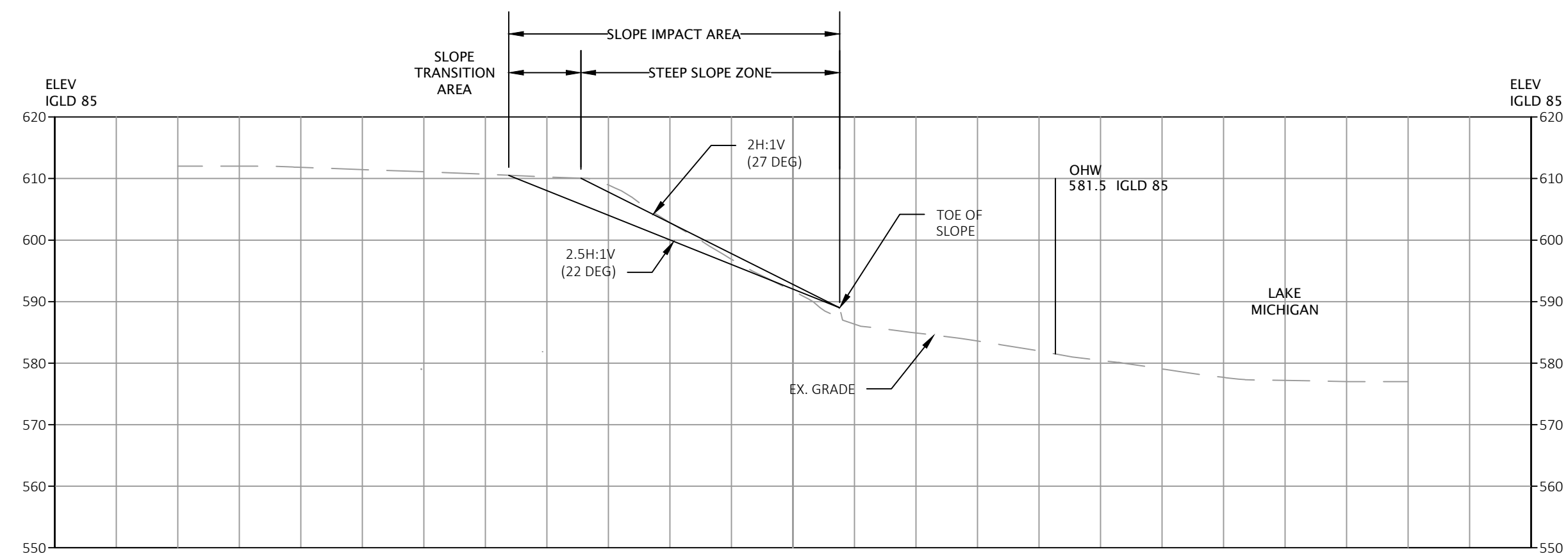





STA 0+25


SCALE: H :  0' 10' 20'

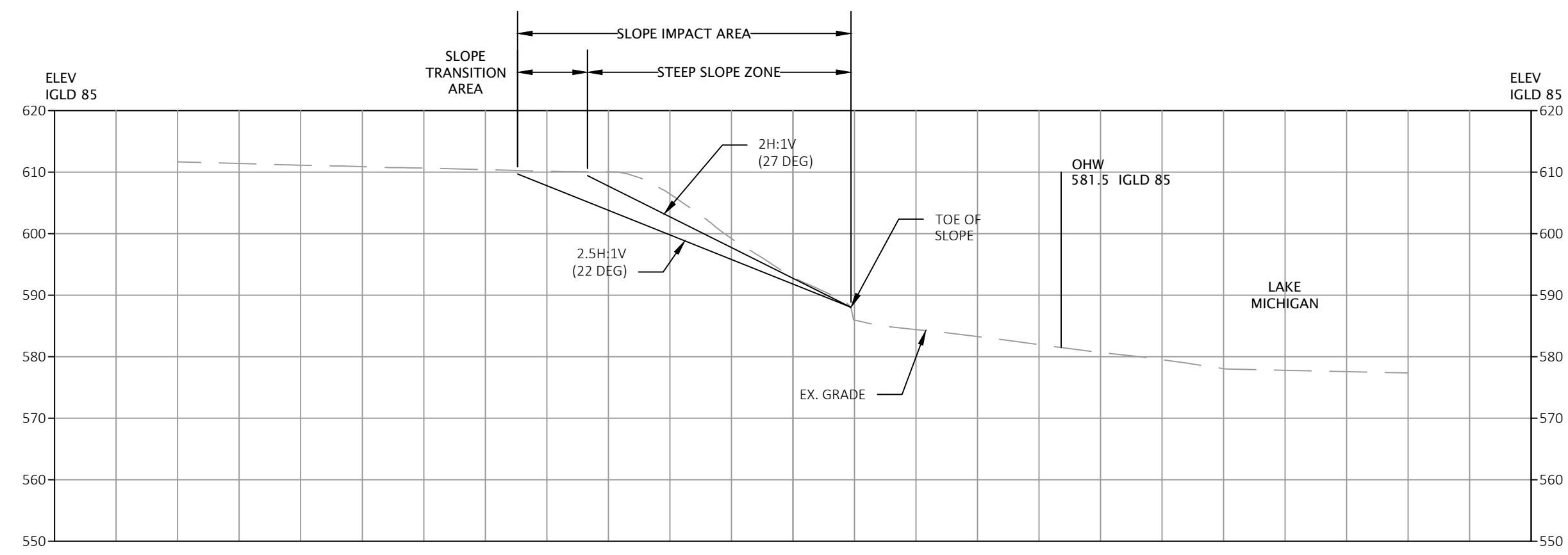
V :  0' 10' 20'




STA 0+75


SCALE: H:  0' 10' 20'

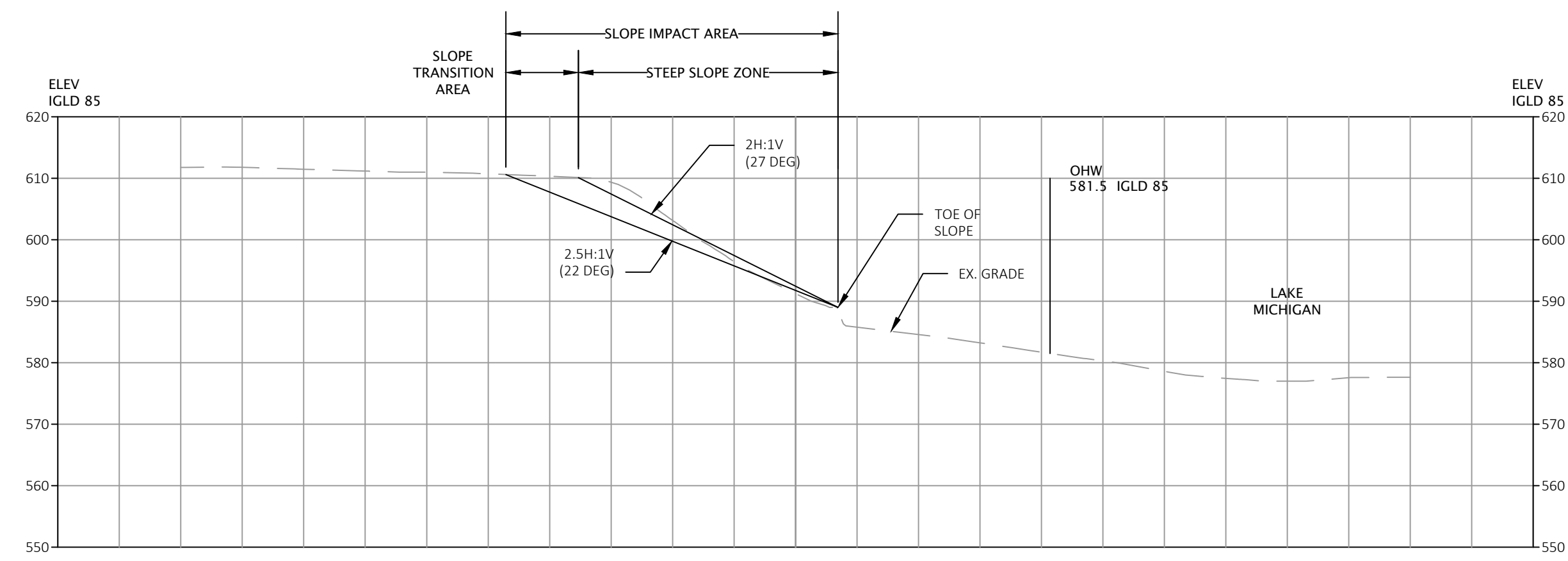
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STA 1+25


SCALE: H:  0' 10' 20'

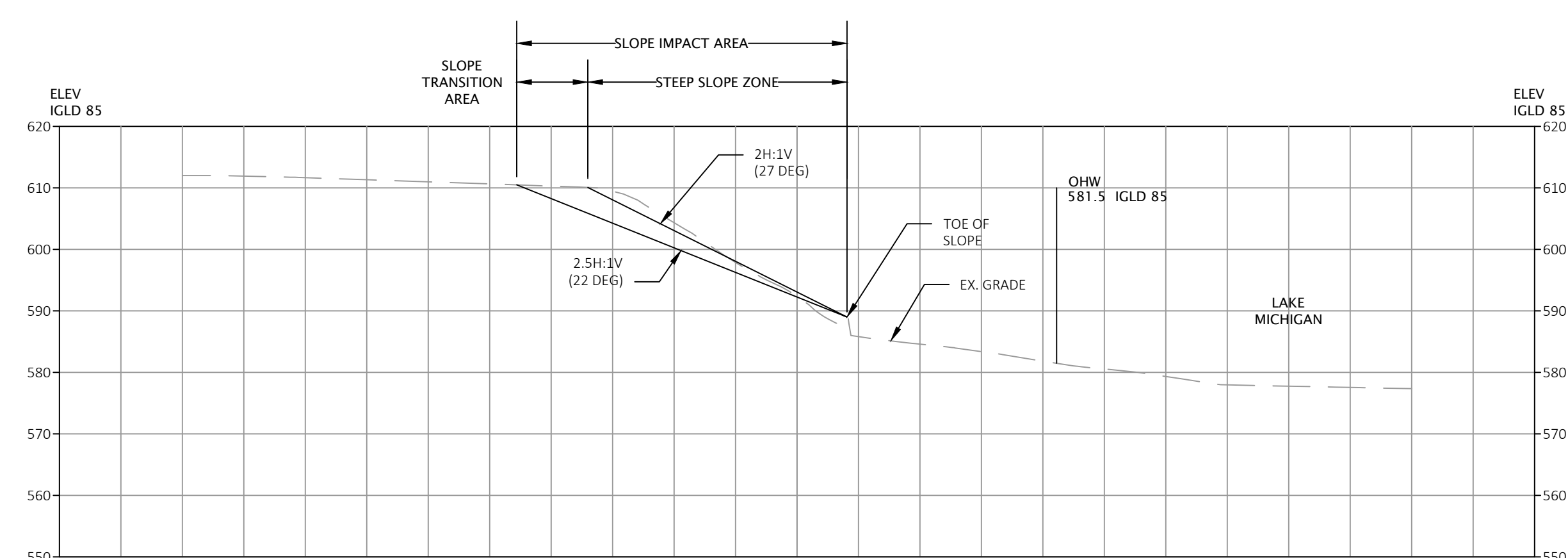
V:  0' 10' 20'




STA 0+50


SCALE: H :  0' 10' 20'

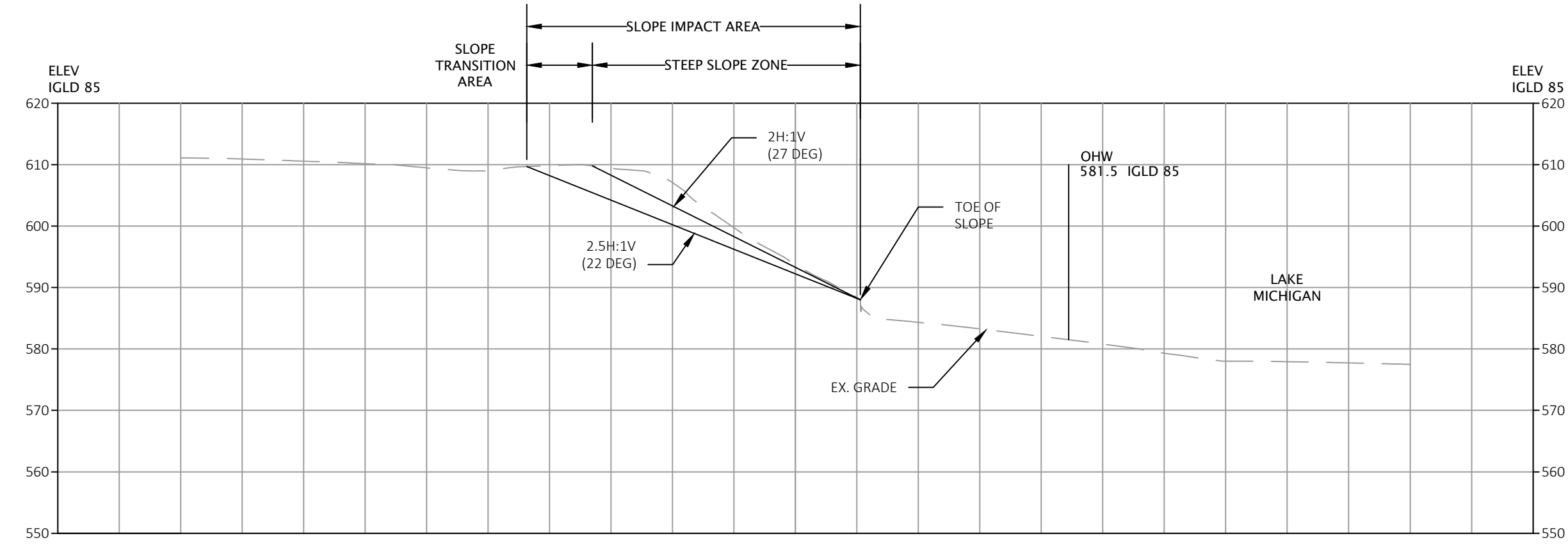
V :  0' 10' 20'




STA 1+00


SCALE: H :  0' 10' 2'

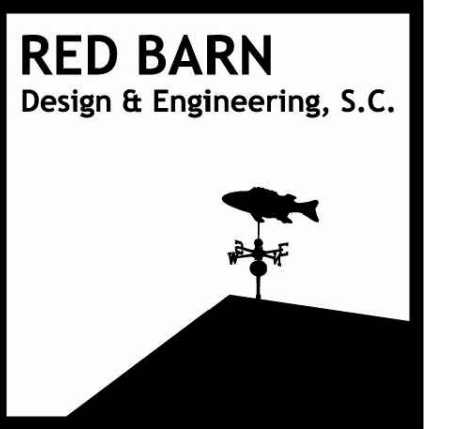
V :  0' 10' 2'



STA 1+50

SCALE: H :  0' 10' 20'

V :  0' 10' 20'



6750 Woodland Drive  
Waunakee Wisconsin 53597  
p. 608.849.2042  
c. 608.843.1870  
redbarnde@tds.net

Consultants	
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[illegible]

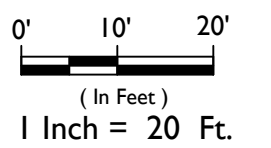
Project Title:

Site Improvements  
Centennial Park  
Winnetka, IL

Prepared For:

Winnetka Park District  
Winnetka, IL

### Graphic Scale

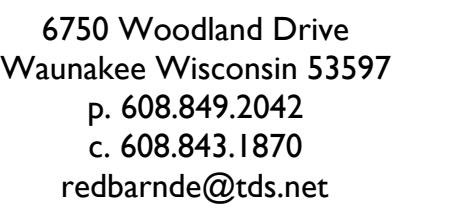
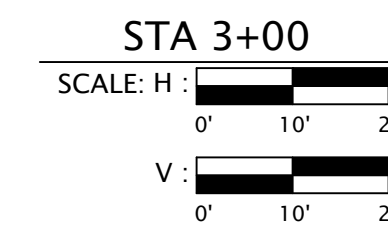
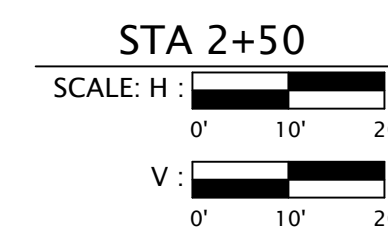
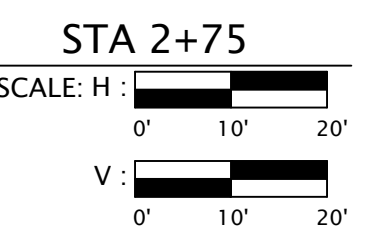


Scale	1" = 20'
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Drawing Title
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## Cross Sections

Sheet No. CS -7



Consultants
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[illegible]

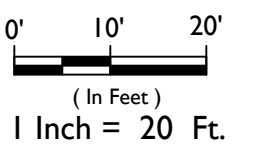
Project Title:

# Site Improvements Centennial Park Winnetka, IL

Prepared For:

Winnetka Park District  
Winnetka, IL

### Graphic Scale



Scale	1" = 20'
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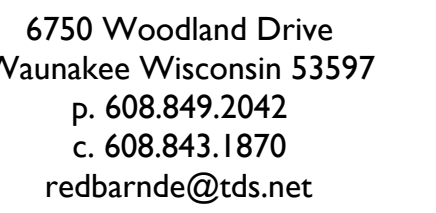
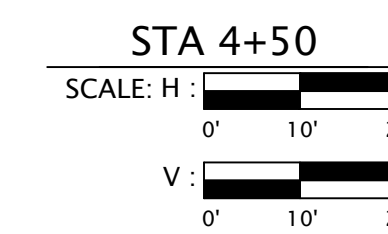
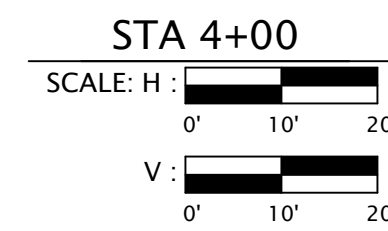
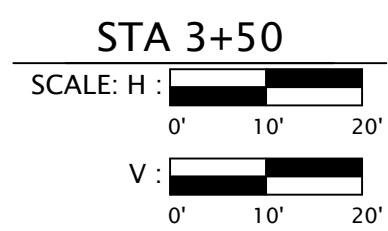
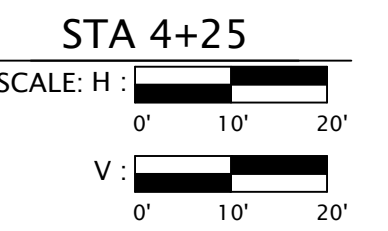
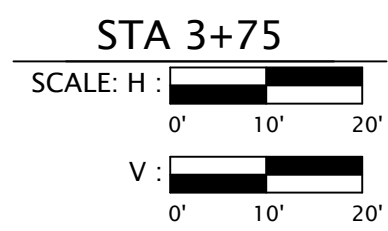
Drawing Title
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## Cross Sections

1. *Journal of the American Medical Association*, 1997; 277: 1001-1005.

Sheet No.

CS - 8



## Consultants

[illegible]

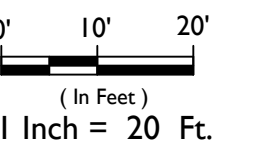
Project Title:

# Site Improvements Centennial Park Winnetka, IL

Prepared For:

Winnetka Park District  
Winnetka, IL

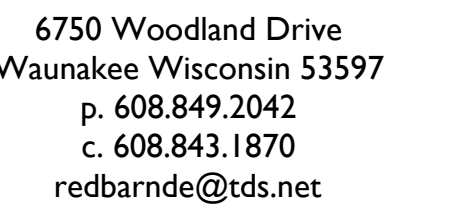
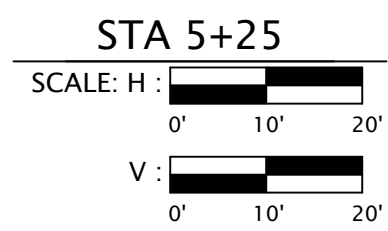
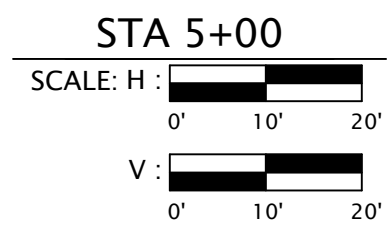
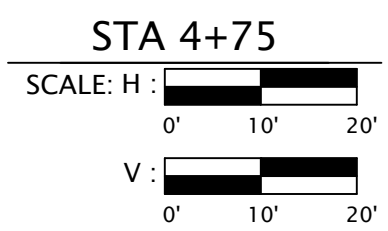
### Graphic Scale



Scale 1" = 20'

Drawing Title  
Cross Sections

Sheet No. CS -9

[illegible]

# Site Improvements Centennial Park Winnetka, IL

Winnetka Park District  
Winnetka, IL

0' 10' 20'  
(In Feet)  
1 Inch = 20 Ft.

Scale 1" = 20'

Drawing Title	Cross Sections

Sheet No. CS - 10