SRF No. 0148483
County Project No. 091101

CSAH 112 – Phase 1
Project Advisory Committee (PAC) Meeting
February 18, 2015; 8:00 am – 10:00 am
Orono City Hall
MEETING RECORD

A project PAC meeting for the referenced project was held at the Orono City Hall on February 18, 2015, from 8:00 a.m. – 10:00 a.m. The following is a summary of the meeting based on the Agenda, which is attached to this record:

Meeting Summary:

1. ***Introductions:***

   Nate Will opened the meeting. Introductions were made as several new people were present. A copy of the meeting sign-in sheet is attached to this meeting record.

2. ***Review of January 21, 2015, Project Advisory Committee Meeting Record:***

   Nate asked that any comments on the Meeting Record from the January 21, 2015, meeting be sent electronically to him at SRF. No specific comments were provided by the PAC. Nate will post the meeting record on the project website at www.CSAH112.com on the status page.

3. ***Review of Previous Action Items:***

   The following action items were reviewed. Any items shown in grey require additional action, which is added to the action items from this meeting below.

Task	Responsible Party	Due Date	Resolution
SRF to explore options for implementing screening such as trees along the bike path from Mill Street to Martha Lane.	Nate Will	2/18/15	Completed, see discussion below
SRF to prepare memorandum to document decision for constructing the Rapid Rectangular-Flashing Beacon (RRFB) at intersection of CSAH 112 and Mill Street.	Nate Will	4/3/15	
SRF to update project website (www.csah112.com) to include meeting record for PAC meeting held on 12/17/14.	Nate Will	1/30/15	Completed

Task	Responsible Party	Due Date	Resolution
SRF to provide copy of technical specifications, to Donny Chillstrom, for the LED light & shield (cut-off) for the proposed fixtures for use on the 15-foot and 25-foot light poles.	Nate Will	2/13/15	Completed
PAC members are to think about potential lighting or waypoint lighting for trail along Lake Street/Symes Street and trail connection from Mill Street to Martha Lane. Consider upgrading to LED or using salvaged poles with costs funded 100% by City of Long Lake.	PAC	2/18/15	Completed, see discussion below.
SRF to bring sample colors and texture recommendations for the proposed retaining walls and concrete walks to the February PAC meeting.	Michael Jischke	2/18/15	Completed, see discussion below.
SRF to review the Brown Road Gateway Area and be prepared to discuss options for streetscape at the February PAC meeting.	Michael Jischke	2/18/15	Completed, see discussion below.
Scott Weske to research the tree replacement requirements for the City of Long Lake and report back at the February PAC meeting.	Scott Weske	2/18/15	Ongoing, Scott & Marv will discuss and report back.
Review existing private lighting at apartment building entrances to determine if it remains as is or is impacted with construction.	Nate Will	2/18/15	Completed, see discussion below.
SRF to layout proposed streetscape elements including light poles, potential trees and areas of colored concrete from Brown Road to Martha Lane for presentation to the February PAC meeting.	Michael Jischke	2/18/15	Completed, see discussion below.
SRF to layout lighting design using 25-foot poles from Willow Drive to Brown Road; 15-foot poles from Brown Road to Martha Lane; 25-foot poles from Martha Lane to Cemetery Road; and 25-foot poles at the intersection of CSAH 112/Wolf Pointe Trail	Nate Will / Michael Jischke	2/18/15	Completed, see discussion below.
City of Long Lake to develop and pass resolution to ban parking along both sides of Martha Lane and along Symes Street adjacent to the Nelson Lakeside Park.	Scott Weske	2/28/15	Ongoing, see discussion below
SRF to review proposed cross sections along the Long Lake bank stabilization area and determine if possible to maintain traffic along CSAH 112 throughout construction.	Nate Will	2/1/15	Completed, see discussion below.
The City will provide a contact name, phone number and address for the final delivery location of the light poles to be salvaged.	Scott Weske	2/28/15	

4. Discussion Items:

a. Streetscape layout and details

Michael Jischke presented the draft streetscape layout focused on a portion of the Phase 1 project area from Brown Road to the Luce Line Trail connection. A copy of this graphic is attached to this meeting record. Using this layout, he presented several other graphics (attached herein) to illustrate typical sections (looking east along CSAH 112) and proposed streetscape features.

The group discussed the proposed trees shown on the north side of CSAH 112 from Lake Street to Mill Street. Several comments were expressed about the concern that trees would impede views of adjacent businesses and potential maintenance. A majority of the PAC agreed to remove the proposed trees from Lake Street to Mill Street along the north side of CSAH 112. The PAC supported showing trees along the south side of CSAH 112 from Lake Street to Mill Street and around the corner to blend into the existing trees within the berm.

Parking Lane Width:

A discussion occurred regarding the proposed parking lane width of 8 feet from Lake Street to Martha Lane. Mike Turner mentioned that one of the reasons the County was proposing the 8-foot parking lane width to increase the adjacent walk areas for trees and furnishings and the by doing so, the County was seeking a variance from State Aid requirements. The minimum requirement for parking along this type of roadway is 10 feet.

After some further discussion, and based upon the decision to remove trees along the north side, the group discussed increasing the parking lane from 8 feet to 10 feet. Marv Wurzer favors the wider parking area for snow removal operations which include loading and hauling the snow from the parking area and walks. After some additional discussion, the majority of the PAC agreed to increase the parking width to 10 feet.

The PAC discussed the proposed parking and tree locations along the north side of CSAH 112 from Mill Street to Martha Lane. Several of the PAC members were concerned about adding trees adjacent to the Gear West buildings and existing landscaping. The PAC requested that SRF review this area again and consider potentially reducing the number of trees to provide for adequate sight lines at intersections and to Gear West.

Concrete Walk Paving Options:

Michael presented three paving options for the concrete sidewalk areas from west of Lake Street to Martha Lane. A copy of these graphics are attached to this meeting record.

After some questions and discussion by the PAC, the group decided on using Paving Option A which includes standard gray concrete for the pedestrian walk area and an exposed aggregate gray concrete for the furnishing zone adjacent to the curb and gutter. It was noted that selecting the exposed aggregate allows for easier repairs to replicate the color and hides cracks as compared to the other two options which included colored concrete.

Ornamental Fence (at Parking Lot Edges):
Michael described the intent of the fence would be to define the walkway edge and visually screen vehicles. The construction of the proposed fence would be similar to a standard bridge railing and painted black. A copy of these graphics are attached to this meeting record. He also pointed out the additional aesthetic "arcs" that reference the architectural detailing of the Long Lake City Hall roof. It was noted that this project, CSAH 112 Phase 1, will be used as a precedent in designing retaining walls and railing types completed under future Phase 2 and Phase 3. The PAC requested some additional aesthetic options for comparison at the next meeting.

Donny Chillstrom suggested using a fence along CSAH 112, in front of the liquor store, to provide some added delineation. Michael noted that idea was included in the preliminary planning and is also being incorporated into the final design near the Birch's Restaurant and at the northeast corner of the Lake Street intersection.

Gateway Monuments:
Michael presented another graphic showing a concept of the "Village Center Gateway". A copy of this graphic is attached to this meeting record. He explained how the monument would complement the colors and features from the proposed retaining walls and railings. Michael pointed out the two (2) proposed locations for these monuments as follows: 1) in the southeast corner of the Brown Road/CSAH 112 intersection; and 2) on the south side of CSAH 112 near at the confluence of the Long Lake City Trail connection to CSAH 112 along the lake. It was noted that typically on these types of monuments, especially those located within the County right of way, that Hennepin County may require acknowledgement on the plaque.

Donny suggested the Long Lake logo be incorporated into monument plaque. The PAC discussed the viewing locations of both monuments and agreed that the locations proposed represent the optimum viewing for motorists on CSAH 112. Others preferred using text only and not including logos since they are often subject to change.

Donny mentioned the existing Long Lake wooden monument, located near Cemetery Road/CSAH 112, is in poor shape and the City might consider replacing the monument. Nate Will mentioned this existing monument falls within the proposed stormwater treatment "dry" pond and was planning to be salvaged or removed.

The PAC briefly discussed a comparable monument being proposed in the northwest corner of Brown Road at CSAH 112; however, Michael pointed out that corner has numerous existing utilities and a stormwater overflow structure. Orono representatives expressed interest in potentially building a similar feature in a future phase of the project at Old Crystal Bay Road. The PAC requested some additional aesthetic options for comparison at the next meeting.

b. Retaining wall texture and color

Michael provided a brief review of the retaining wall design that was presented at the January 2015 PAC meeting for confirmation, including proposed wall locations, wall types

(cut or fill), and wall materials (cast-in-place concrete or large "wet cast" blocks). Michael discussed each of the wall sections and pointed out their proposed locations within the Phase 1 project area. He presented a series of graphics depicting the suggested coloring scheme that might be used for both the CIP and large block walls. A copy of these graphics are attached to this meeting record.

Michael explained raw concrete appearance of both wall types and the recommendation to use a 3-color stain surface treatment for the stone textured areas and the single color finish for the non-textured areas. It was noted that the 3-color and single-color approach has been used successfully on other Hennepin County projects including the CIP walls along CSAH 101 between County Road 6 and County Road 24 in Plymouth. Michael noted that during construction of the walls, the specifications would require the contractor to build mock ups of both the CIP and large block walls including the color stain application for acceptance by all parties.

After discussion, the PAC was agreeable to the proposed recommendations for texturing and color systems.

Marv Wurzer inquired if there was a way construct a short height curb or barrier adjacent to the exposed retaining wall face to reduce the nicks and scratches that occur from plowing the trails/walks with the City's pickup mounted plow. Mike Turner provided some additional considerations should an integral curb or separated curb be considered it may have negative impacts on the available trail/pedestrian widths resulting in additional right of way costs.

c. *Potential trail lighting along Lake Street & Symes Street*

Nate Will presented a layout graphic showing the downtown area of Long Lake, including Lake, Symes and Mill Street. He refreshed the PAC on the decision to construct a trail along Lake Street and extend a 6-foot concrete walk along a portion of Symes Street. He also pointed out the proposed trail extension from Mill Street to Martha lane. Nate described the existing lighting along Lake, Symes and Mill Streets which consists mostly of cobra style light extensions attached to existing electrical poles at areas indicated on the graphic.

Nate asked if the PAC, primarily the City of Long Lake, desired to have a different level of lighting along these streets for the trail users. The representatives from Long Lake felt strongly that an upgrade of the lighting along these streets, including lighting of the ends of the trail connection between Mill and Martha, should be considered in the project. Donny Chillstrom mentioned several years ago, the City of Long Lake had developed a sketch showing what the proposed lighting might include. He offered to send SRF the sketch for review and refinement.

Nate mentioned that one option would be to re-install some of the salvaged lights (green Washington style), that are being impacted in Phase 1, to use along Lake, Symes and the trail connection. The City of Long Lake was acceptable of this option rather than upgrading to the LED lights proposed along CSAH 112.

d. Recommendations for screening along trail between Mill Street and Martha Lane.

Nate briefly described the proposed trail connection between Mill Street and Martha Lane in response to an earlier question raised at previous PAC meeting. Although, he didn't have a graphic at the PAC meeting, Nate described in general the visual concerns that the trail users would encounter. See attached graphic showing the existing photos along the proposed trail. Nate suggested the PAC consider installing a wood/PVC privacy fence along the proposed trail to improve the area. Several of the PAC members questioned the condition of the existing steel building adjacent to the trail and whether or not that should be painted or otherwise improved. It was noted that improving the building paint would be best left out of the County project and discussed separately with the property owner. The PAC accepted the concept of installing a privacy fence.

e. Construction staging and road closure

Nate presented a graphic that was previously shown to the PAC with additional details on how a temporary roadway might be constructed to bypass around the area where the proposed lake shore restoration will occur. A copy of the graphic presented is attached to this meeting record.

Nate explained the extent of the proposed impacts to the existing berm that separates CSAH 112 from TH 12 which requires a temporary sheet pile wall, pavement and potentially impacts underground utilities. Nate indicated that a preliminary cost estimate was developed totaling nearly $800,000 for the temporary bypass. It was also noted that additional construction time including impacts to traffic would result to construct the temporary bypass versus implementing a full closure of CSAH 112 during the shoreline restoration.

5. Update of ongoing design efforts

i. Geotechnical Investigation/Coordination
Nate reported the geotechnical soil borings were completed.

ii. Utility Coordination and Mapping
Nate reported the utility coordination and mapping were ongoing with the 60% design.

iii. Environmental Investigation
Nate reported the environmental soil probes were completed and investigation continues.

6. Open Discussion

Enhanced Pedestrian Nodes

Jahn Dyvik questioned if consideration was being done to enhance the pedestrian landing "node" areas similar to what was presented to the previous PAC during development of the preliminary layout. The PAC discussed this idea and requested that SRF develop some options to enhance the pedestrian node pavement for review at the next meeting.

Rapid Rectangular-Flashing Beacon (RRFB)

Jahn Dyvik asked for a clarification and a discussion ensued regarding this PAC's decision to relocate the RRFB system from the Martha Lane intersection to the Mill Road intersection. Jahn indicated he was surprised to learn of this decision which modified the location from what was discussed during the preliminary layout work completed in early 2014. Mike Turner responded and summarized the discussions that led to PAC deciding to relocate the RRFB to Mill Road. Jahn inquired if a second RRFB might be installed at the Martha Lane intersection. Mike replied this would be something that the County would need to weigh in on. Tim Bruers did not believe the County would allow a second RRFB in this corridor, especially one that is only one (1) block apart.

Martha Lane – Proposed No Parking Both Sides

Jahn Dyvik requested additional discussion regarding the proposed no parking that is being considered along the residential side of Martha Lane. Mike Turner explained that due to the narrow width of Martha Lane (24-foot) and the desire to use Martha Lane for a share-lane bike trail from CSAH 112 to the trail connection to Mill Street that "no parking" needs to be implemented for liability concerns. Several PAC members discussed the opportunity for a special city permit that could be approved to allow parking under certain conditions.

7. Follow Up Items/Action Items:

For tracking purposes, we have assigned a responsible party and a due date for completing the following action items, which were identified at the meeting:

Task	Responsible Party	Due Date
SRF to update project website (www.csah112.com) to include meeting record for PAC meeting held on 1/21/15.	Nate Will	2/10/15
SRF to develop options to enhance the main intersection sidewalk corners with colored concrete to complement the typical proposed walk materials which include exposed aggregate and standard gray concrete.	Michael Jischke	3/13/15
Tim Bruers will discuss with County traffic staff their thoughts about adding a second rapid rectangular-flashing beacon (RRFB) at the Martha Lane/112 pedestrian crossing.	Tim Bruers	3/17/15
SRF to develop additional options for the gateway monument signs and ornamental fence for PAC input.	Michael Jischke	3/13/15
Review proposed tree locations and consider reducing number of trees between Mill Street and Martha Lane, adjacent to Gear West.	Michael Jischke	3/13/15
SRF to delete proposed trees from Lake Street to Mill Street along the businesses on the north side of CSAH 112.	Michael Jischke	3/13/15

Task	Responsible Party	Due Date
SRF & County to review proposed parking lane width (currently 8-foot) and consider increasing to the minimum 10-foot width required by State Aid.	Nate Will	3/13/15
SRF to layout preliminary lighting locations to provide trail lighting along Lake Street, Symes Street and lights at either end of the proposed trail connection from Mill Street to Martha Lane.	Nate Will	3/13/15
SRF to review possibility of adding a 4-inch or 6-inch curb along the front of the retaining walls to protect walls from nicks and scratches from City plowing operations.	Nate Will	3/13/15
The City of Long Lake will forward to SRF a sketch showing the proposed lighting layout along Lake and Symes Street.	Donny Chillstrom	2/28/15
SRF to report back to the PAC with estimated costs for potential burial of overhead utility lines in Phase 1 for Orono and Long Lake.	Nate Will	3/13/15

8. Upcoming Meetings:

a. PMT Meeting: May 7, 2015; 1:00 pm – 2:30 pm
b. PAC Meeting: March 18, 2015; 8:00 am – 10:00 am

Meeting Record Revisions:

The preceding represents SRF Consulting Group's understanding of the referenced meeting. If you identify discrepancies or items that require clarification, please contact Nate Will at SRF, via email at nwill@srfconsulting.com, or via telephone at (763) 249-6761.

NW/gjd

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SRF No. 0148483
County Project No. 091101

CSAH 112 – Phase 1
Project Advisory Committee (PAC) Meeting
February 18, 2015; 8:00 am – 10:00 am
Orono City Hall
AGENDA

1. Introductions: *(5 Minutes)*
2. Review of January 21, 2014 Project Advisory Committee Meeting Record: *(5 Minutes)*
3. Review of Previous Action Items: *(5 Minutes)*

Task	Responsible Party	Due Date	Resolution
SRF to explore options for implementing screening such as trees along the bike path from Mill Street to Martha Lane.	Nate Will	2/18/15	
SRF to prepare memorandum to document decision for constructing the Rapid Rectangular-Flashing Beacon (RRFB) at intersection of CSAH 112 and Mill Street.	Nate Will	2/13/15	
SRF to update project website (www.csah112.com) to include meeting record for PAC meeting held on 12/17/14.	Nate Will	1/30/15	Completed
SRF to provide copy of technical specifications, to Donny Chillstrom, for the LED light & shield (cut-off) for the proposed fixtures for use on the 15-foot and 25-foot light poles.	Nate Will	2/13/15	
PAC members are to think about potential lighting or waypoint lighting for trail along Lake Street/Symes Street and trail connection from Mill Street to Martha Lane. Consider upgrading to LED or using salvaged poles with costs funded 100% by City of Long Lake.	PAC	2/18/15	
SRF to bring sample colors and texture recommendations for the proposed retaining walls and concrete walks to the February PAC meeting.	Michael Jischke	2/18/15	
SRF to review the Brown Road Gateway Area and be prepared to discuss options for streetscape at the February PAC meeting.	Michael Jischke	2/18/15	

Task	Responsible Party	Due Date	Resolution
Scott Weske to research the tree replacement requirements for the City of Long Lake and report back at the February PAC meeting.	Scott Weske	2/18/15	
Review existing private lighting at apartment building entrances to determine if it remains as is or is impacted with construction.	Nate Will	2/18/15	
SRF to layout proposed streetscape elements including light poles, potential trees and areas of colored concrete from Brown Road to Martha Lane for presentation to the February PAC meeting.	Michael Jischke	2/18/15	
SRF to layout lighting design using 25-foot poles from Willow Drive to Brown Road; 15-foot poles from Brown Road to Martha Lane; 25-foot poles from Martha Lane to Cemetery Road; and 25-foot poles at the intersection of CSAH 112/Wolf Pointe Trail	Nate Will/ Michael Jischke	2/18/15	
City of Long Lake to develop and pass resolution to ban parking along both sides of Martha Lane and along Symes Street adjacent to the Nelson Lakeside Park.	Scott Weske	2/28/15	
SRF to review proposed cross sections along the Long Lake bank stabilization area and determine if possible to maintain traffic along CSAH 112 throughout construction.	Nate Will	2/1/15	Ongoing
The City will provide a contact name, phone number and address for the final delivery location of the light poles to be salvaged.	Scott Weske	2/28/15	

4. Discussion Items: *(60 Minutes)*
    a. Streetscape layout and details
    b. Retaining wall texture and color
    c. Potential trail lighting along Lake Street & Symes Street
    d. Recommendations for screening along trail between Mill Street and Martha Lane.
    e. Construction staging and road closure

5. Update of ongoing design efforts *(5 Minutes)*
    i. Geotechnical Investigation / Coordination
    ii. Utility Coordination & Mapping
    iii. Environmental Investigation

6. Open Discussion *(5 Minutes)*

7. Follow Up Items/Action Items: *(5 Minutes)*

Task	Responsible Party	Due Date	Resolution

8. Upcoming Meetings:
   a. PMT Meeting: March 5, 2015; 1:00 pm – 2:30 pm
   b. PAC Meeting: March 18, 2015; 8:00 am – 10:00 am

CSAH 112 Project
Final Design – Phase 1
Project Advisory Committee (PAC) Meeting Sign-In Sheet
Wednesday, February 18, 2015 (8:00 – 10:00 a.m.)

Present	Name/Organization	Mailing Address	Phone	Email
☐	Kristy Morter Hennepin County	1600 Prairie Drive Medina, MN 55340	612-596-0384	Kristy.Morter@hennepin.us
☒	Mike Turner SRF Consulting Group	1 Carlson Parkway, Suite 150 Minneapolis, MN 55447	763-249-6717	MTurner@SRFConsulting.com
☒	Jessica Loftus City of Orono	P.O. Box 66 Crystal Bay, MN 55323	952-249-4601	JLoftus@ci.orono.mn.us
☒	Scott Weske City of Long Lake	P.O. Box 606 Long Lake, MN 55356	952-473-6961x2	SWeske@longlakemn.gov
☒	Nate Will SRF Consulting Group	1 Carlson Parkway, Suite 150 Minneapolis, MN 55447	763-249-6761	NWill@SRFConsulting.com
☐	Adam Edwards City of Orono	P.O. Box 66 Crystal Bay, MN 55323	952-249-4661	AEdwards@ci.orono.mn.us
☐	Liz Olson Long Lake City Council	P.O. Box 606 Long Lake, MN 55356		lolson@longlakemn.gov
☒	Donny Chillstrom Long Lake Mayor	P.O. Box 606 Long Lake, MN 55356	612-710-0569	dchillstrom@longlakemn.gov
☐	Tom Skjaret Long Lake Resident			
☒	Lili McMillan Orono Mayor	P.O. Box 66 Crystal Bay, MN 55323	612-840-8484	lmcmillan@ci.orono.mn.us
☐	Jeanne Mabusth Orono Resident	740 Brown Road N Orono, MN	952-476-0578	jamabusth@mchsi.com

Please return to Nate Will, SRF Consulting Group, Inc. ***8483"Meetings"***

CSAH 112 Project
Final Design – Phase 1
Project Advisory Committee (PAC) Meeting Sign-In Sheet
Wednesday, February 18, 2015 (8:00 – 10:00 a.m.)

	Name/Organization	Mailing Address	Phone	Email
☐	Marty Schneider Long Lake City Council	1176 W. Wayzata Blvd. Long Lake, MN 55356	612-237-3843	martyexplore@msn.com
☒	Tim Bruers Hennepin County	1600 Prairie Drive Medina, MN 55340	612-596-0393	Timothy.Bruers@hennepin.us
☒	Michael Jischke SRF Consulting Group	1 Carlson Parkway, Suite 150 Minneapolis, MN 55447	763-267-6600	mjischke@srfconsulting.com
☒	Jim Cornick Orono City Council	Box 66 Crystal Bay, MN 55323	952-300-0954	jcornickjr@ci.orono.mn.us
☒	Jahn Dyvik Long Lake City Council	1780 Martha Lane Long Lake, MN 55356	612-202-7391	jdyvik@longlakemn.gov
☒	Marv Wurzer Long Lake Public Works	450 Virginia Ave. Long Lake, MN 55356	612-720-4261	mwurzer@longlakemn.gov
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Local Architectural Precedents

CSAH 112 Final Design

Hennepin County

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Modular Block



Cast in Place







- 3-Color “Stain” Surface Treatment on Stone Texture Areas
- Single Color Surface Finish on Non-textured Areas



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Retaining Wall Surface Treatment - Option A “Random Cut Stone” (horizontal pattern)

CSAH 112 Final Design

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Cross Section



Wall Elevation View from CSAH 112



Wall Elevation View from Adjacent Property



Wall Details
- Architectural Copings
- Thin Brick Veneer Accent Border on Barrier (both sides)
- "Random Cut Stone" Formliner Texture (Approx. 8" Tall Blocks)
- 3-color Stain (Minnesota Limestone Appearance
- Single Color Surface Finish on Non-textured Areas

Railing Details
- Steel Construction
- 4" Sq. Posts, 2" Sq. Rails, 3/4" Sq. Solid Pickets, Arch Bracket
- Painted Black

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Retaining Wall Aesthetics - Cast in Place Walls - Option A

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Cross Section



Wall Elevation View from CSAH 112



Wall Elevation View from Adjacent Property



Wall Details
- Architectural Cap
- Modular Block with Limestone Texture and 8" Tall False Joints (16" Tall x 48" Long Blocks)
- 3-color Stain (Minnesota Limestone Appearance)

Railing Details
- Steel Construction
- 4" Sq. Posts, 2" Sq. Rails, 3/4" Sq. Solid Pickets, Arch Bracket
- Painted Black

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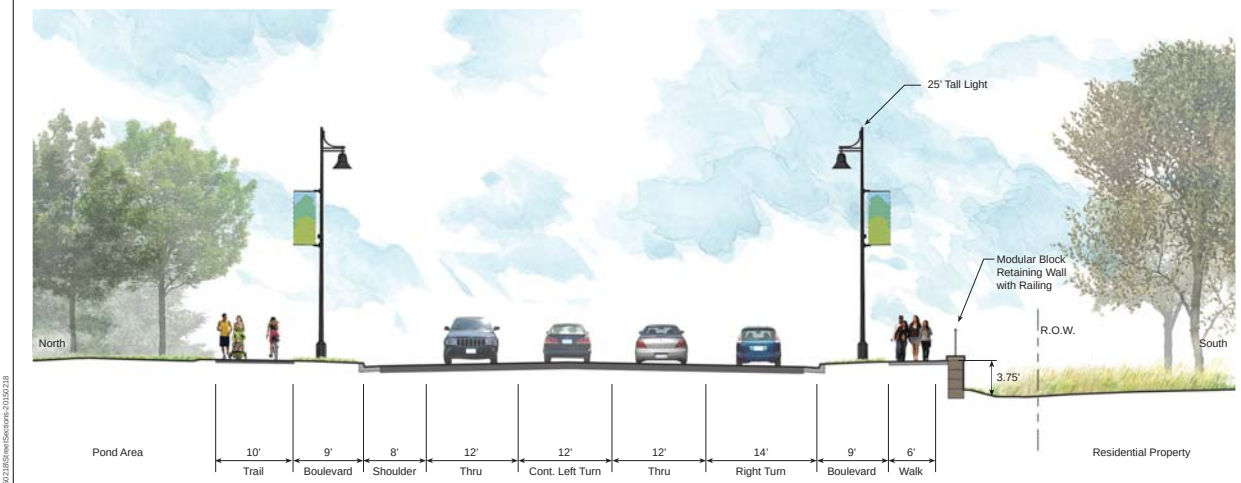
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Retaining Wall Aesthetics - Modular Block Walls - Option A

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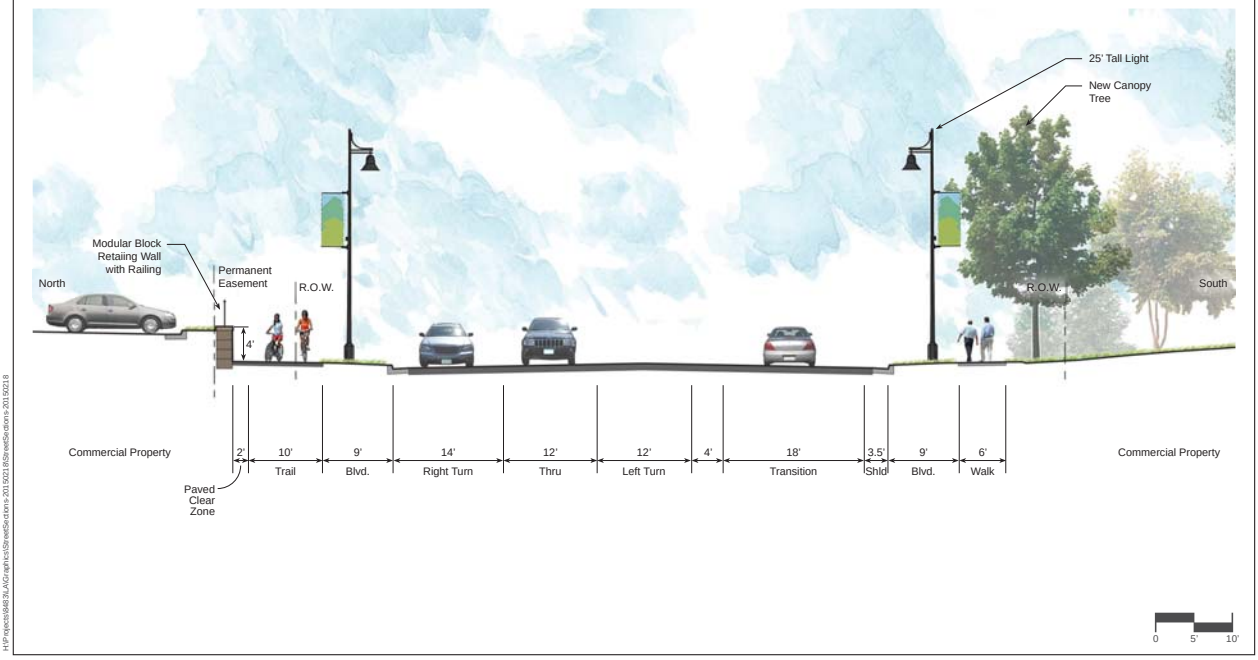


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Streetscape Cross Section 1 (West of Brown Road)
CSAH 112 Final Design
Hennepin County

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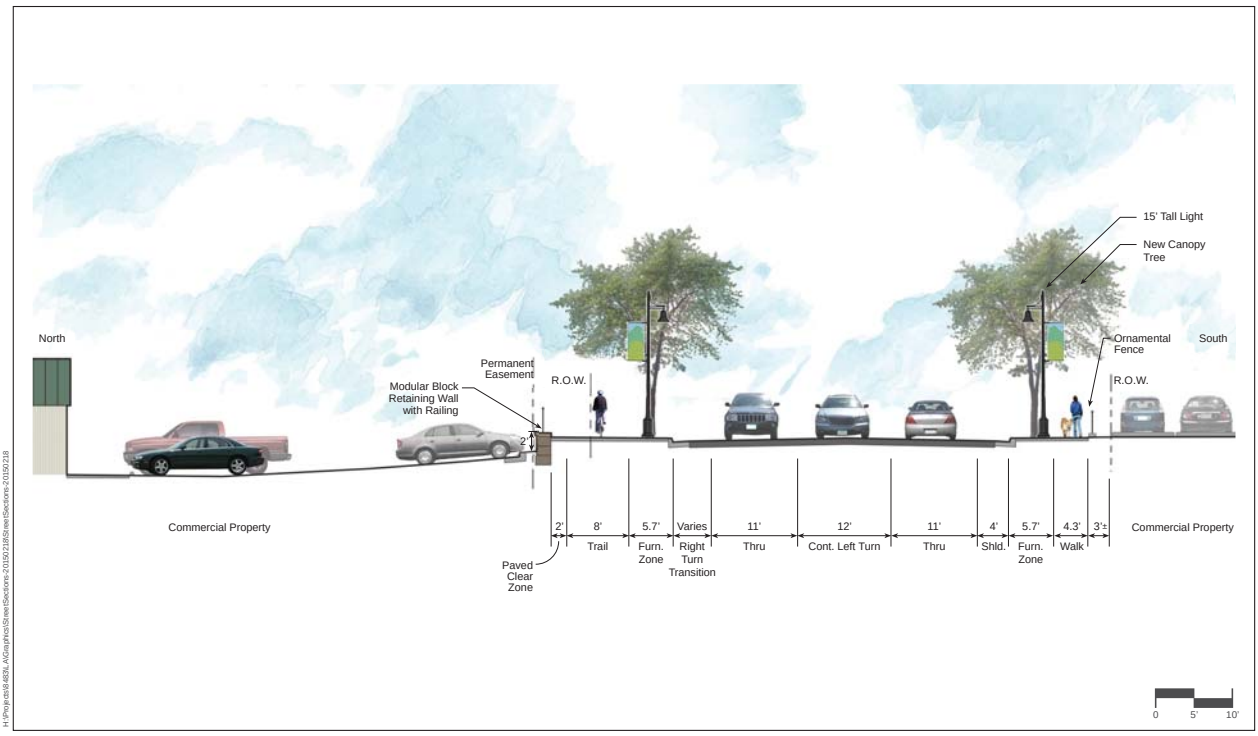
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Streetscape Cross Section 2 (East of Brown Road)

CSAH 112 Final Design

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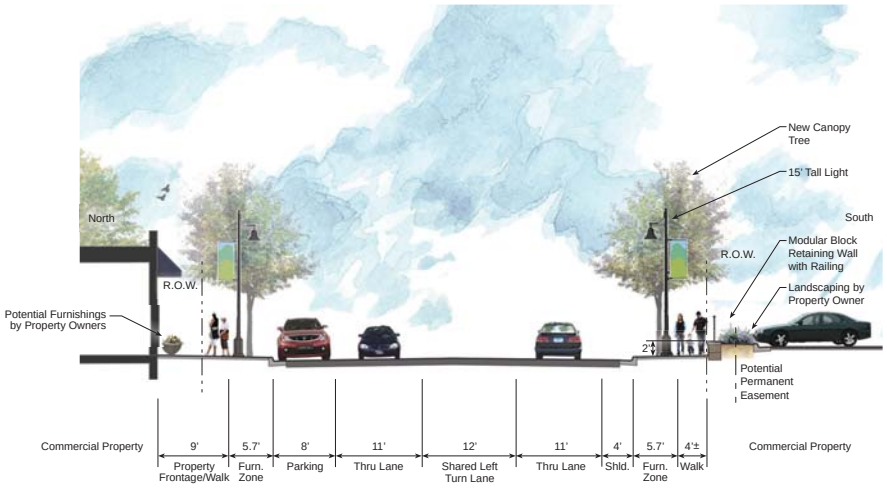
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Streetscape Cross Section 3 (West of Lake Street)

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Streetscape Cross Section 4 (Between Lake Street and Mill Street)

CSAH 112 Final Design

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Streetscape Cross Section 5 (Between Mill Street and Martha Lane)

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Details

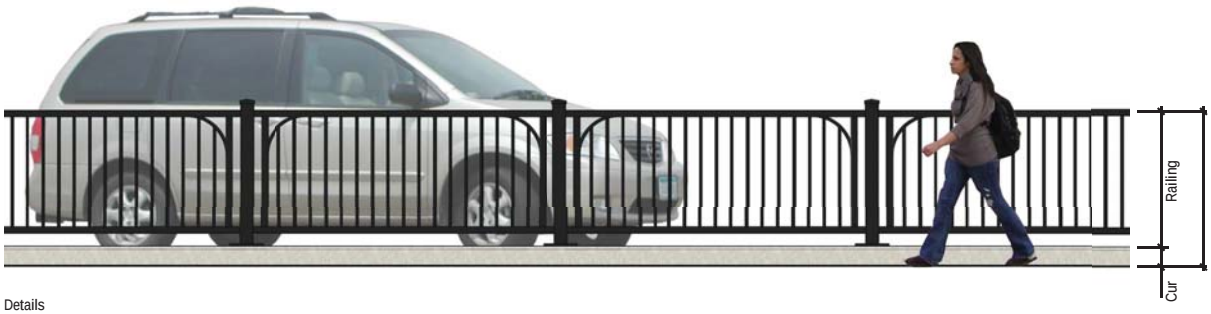
- Ornamental Metal Railing with Silhouetted Signage Text
- Architectural Precast Cap and Sign Plaque
- Brick Masonry
- Landscape Plantings

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Village Center Gateway Concept
CSAH 112 Final Design
Hennepin County

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Details

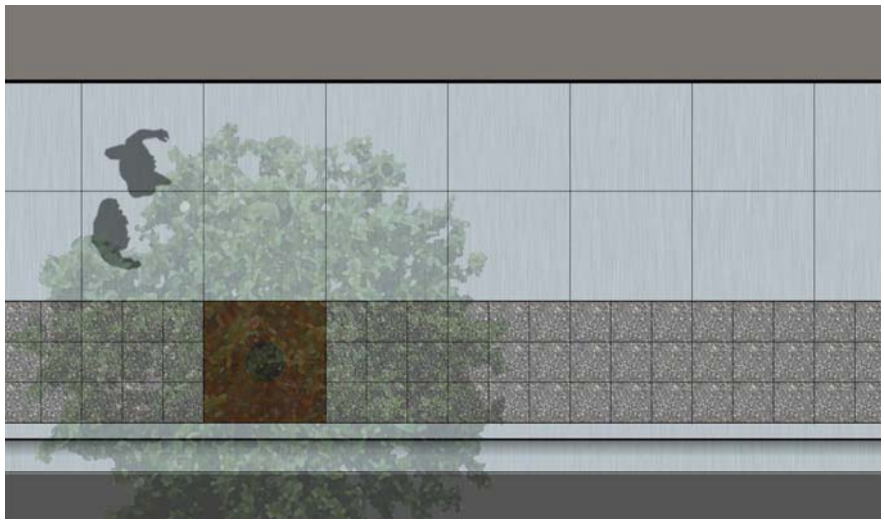
- Steel Construction
- Sq Posts Sq Rails Sq Solid Pickets Arch Bracket
- Painted Black
- Mounted on Concrete Cur

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Village Center Ornamental ence Concept
CSAH 112 Final Design
Hennepin County

DRAFT



Plan View Detail



Details

Walking Zone
- Standard Gray Concrete
- Standard Broom Texture
- 5' Sq. Scoring

Furnishing Zone
- Exposed Aggregate Std Gray Concrete
- 20" Sq. Scoring

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Village Center - Paving Option A
CSAH 112 Final Design
Hennepin County

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Plan View Detail



Details

Walking Zone
- Standard Gray Concrete
- Standard Broom Texture
- 5' Sq. Scoring

Furnishing Zone
- Tan Integral Color Concrete
- Fractured Slate Texture
- 2.5' Sq. Scoring
- Troweled Edge

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Village Center - Paving Option B
CSAH 112 Final Design
Hennepin County

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Plan View Detail



Details

Walking Zone
- Standard Gray Concrete
- Standard Broom Texture
- 5' Sq. Scoring

Furnishing Zone
- Reddish Brown Integral Color Concrete
- Brick Herring Bone Pattern
- Brick Soldier Border
- 5' Sq. Scoring

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Village Center - Paving Option C
CSAH 112 Final Design
Hennepin County

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Downtown Street Scape
CSAH 12 Final Design
Hennepin County
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Martha Lane Trail Segment - Screening Issue

CSAH 112 Final Design

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SYMES ST.

LAKE ST.

13 PARKING SPACES

MILL ST.

MARTHA LA.

13 PARKING SPACES

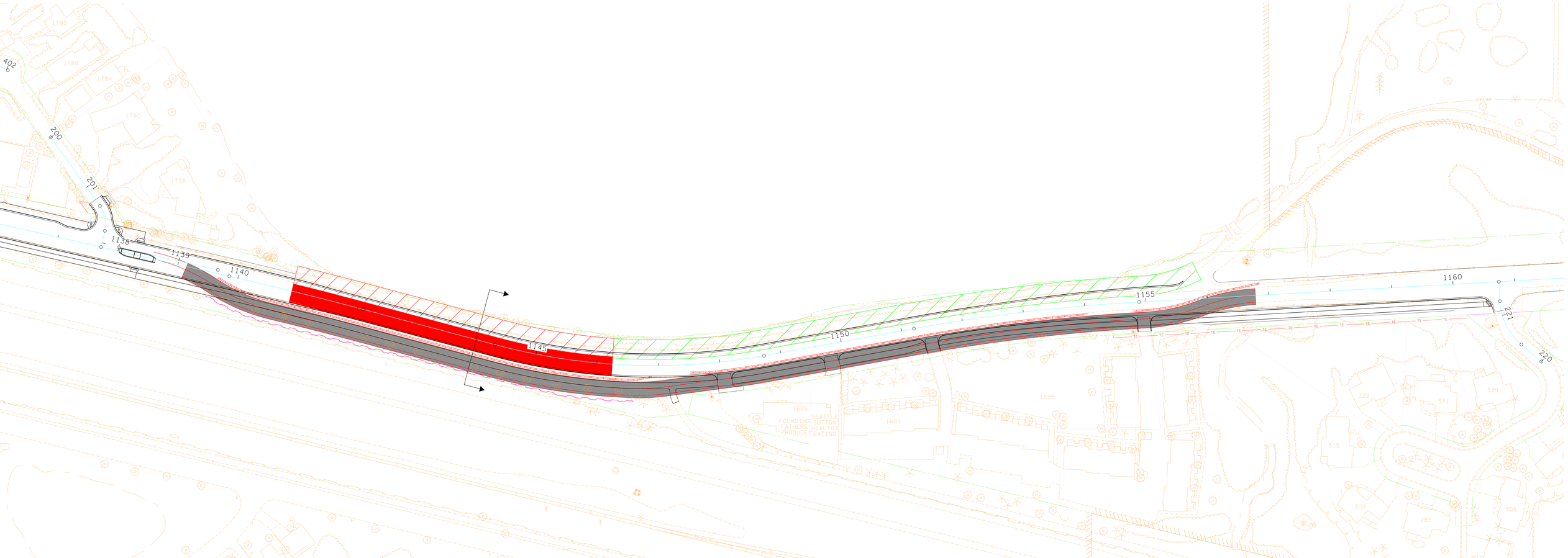
CSAH 112

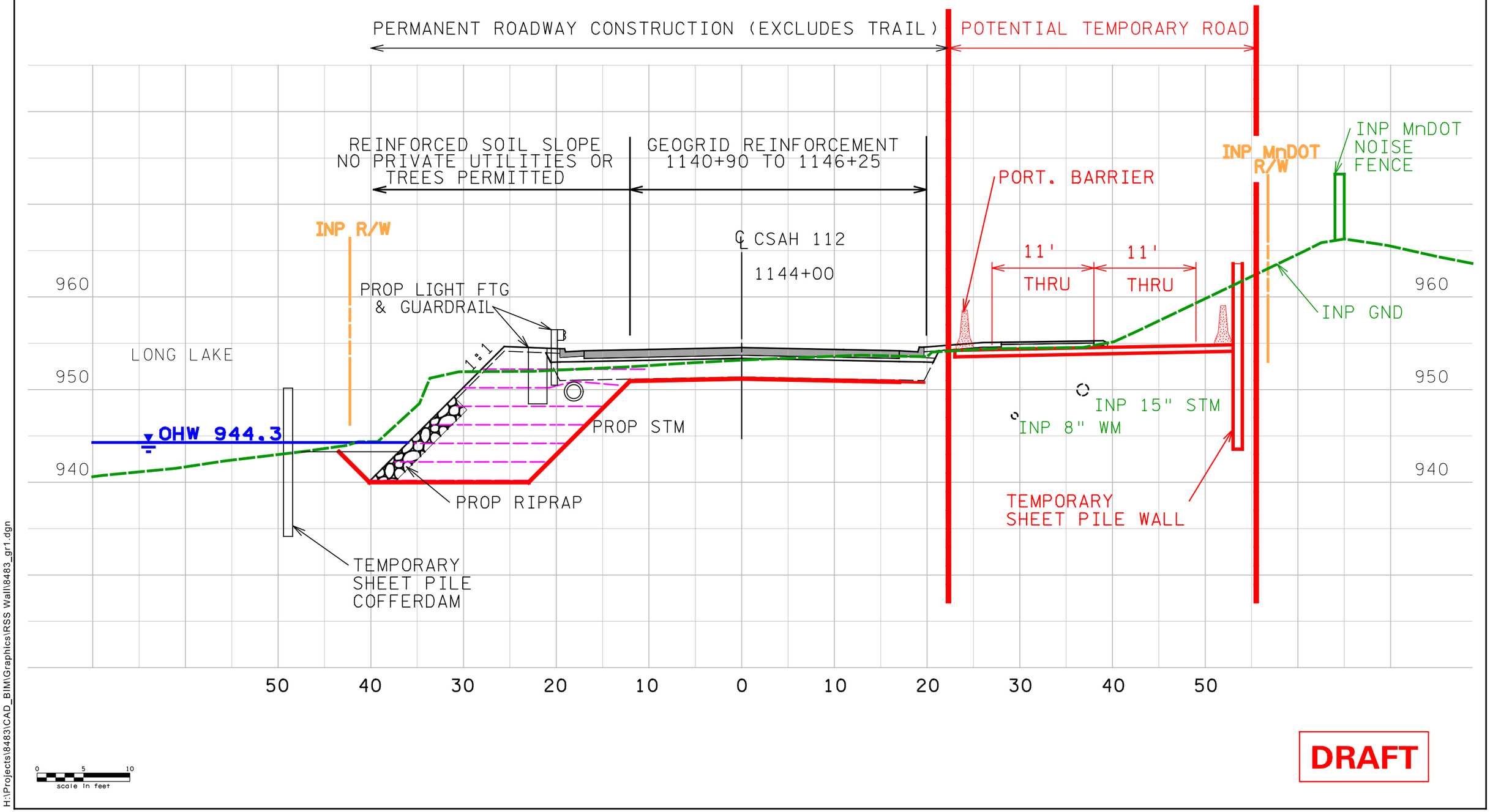
N

1"=50'

2/18/15 PAC MTG

* EXISTING LIGHTS ON POWER POLES


1790
1788
1784
1780
1776
402
200
201
1138
1139
1140
1145
1150
1155
1160
221
220
1605
SEATTLE
FOUNDING SUTTON
FATHERS HEALTHY
PRODUCE EATING
1601
1595
323
351
339
315
303
289
306



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SRF Consulting Group, Inc.

Job #8483
2/17/2015

REINFORCED SOIL SLOPE - PRELIMINARY SECTION WITH TEMPORARY BYPASS ROAD

CSAH 112 - PHASE 1
HENNEPIN COUNTY

Figure 1