

PARK BOARD AGENDA

GOODHUE COUNTY LEC - EMERGENCY OPERATIONS CENTER
430 W 6TH ST, RED WING, MN

OCTOBER 7, 2021 1:00 PM

VIRTUAL MEETING OPTION NOTICE.

The Goodhue County Parks, Trails, and Recreation Advisory Board will be conducting a Park Board meeting on October 7, 2021, at 1:00 PM in the Goodhue County Law Enforcement Center's Emergency Operations Center. Goodhue County Public Works staff and some Park Board members will be present at the meeting location, with some Park Board members joining the meeting virtually. The public may attend the meeting from a remote site by logging into https://global.gotomeeting.com/join/705880437 or by calling 877-309-2073 OR 571-317-3129 any time during the meeting. Access Code: 705-880-437

Review And Approve Minutes From Previous Meeting.

Documents:

07-22-21 PB Minutes Draft.pdf

Review And Approve The Agenda.

Byllesby Park Pavilion Design.

Documents:

Byllesby Pavilion Design.pdf

Byllesby Park Berm Design.

Documents:

Byllesby Park Berm Planting Plan.pdf

Fishing At Lake Byllesby.

Documents:

Fishing at Lake Byllesby.pdf

Next Meeting Date.

Adjourn.

Goodhue County Parks, Trails and Recreation Advisory Board

Meeting Date: July 22, 2021

Meeting Location: Goodhue County Public Works – Red Wing, MN

(Virtual Meeting Optional)
Meeting Time: 10:00 AM

Members

Brad Anderson	Commissioner
Todd Greseth	Commissioner
Mike Melstad	1 st District Rep
Mairi Doerr	2 nd District Rep
Bernie Overby	3 rd District Rep
Barbara Pratt	4 th District Rep
Janie Farrar	5 th District Rep
Scott Roepke	Cannon Valley Trail Rep
Roxanne Bartsh	Goodhue Pioneer Trail Rep
Greg Isakson	Staff: Director of Public Works
Jennifer Ziemer	Staff: Admin Assistant- PW

Absent: Janie Farrar and Roxanne Bartsh. Virtual: Barbara Pratt and Scott Roepke.

Bernie Overby called the meeting to order at 10:06 AM. It was moved by Commissioner Anderson, seconded by Mairi Doerr, and carried to approve the June 30, 2021, Park Board Minutes.

It was moved by Mike Melstad, seconded by Bernie Overby, and carried to approve the agenda.

The Park Board reviewed the draft Cascade Canoe & Kayak Launch Rules Ordinance. The Park Board approved the following changes to the ordinance:

- Correct spelling error in 2. f. from "personnel" to "personal"
- Add "(fireworks)" to 2. n. following the word "explosives"
- Add ", including fishing," after the words "other purposes" in #3
- Add "The intent of this facility is to provide canoe and kayak access to the Cannon River" to the beginning of #3
 and move it up to the #1 position
- #1 will become #2
- #4 will become #3
- #5 will become #4
- Move #2 down to become #5

It was moved by Mike Melstad, seconded by Mairi Doerr, and carried to approve the draft ordinance with the changes listed above, and request approval and enactment by the County Board. Staff agreed to revise the ordinance document and send it out to the Park Board for their final review before enactment. The Park Board would like to see the rules posted in the same languages that Dakota County uses to post safety notices at Byllesby Dam.

It was moved by Commissioner Anderson, seconded by Mairi Doerr and Scott Roepke, and carried to name the new pavilion in honor of Richard Samuelson, and to use donations that were made in his memory to purchase a plaque that honors Richard's commitment to parks and trails. Commissioner Anderson, Scott Roepke, and Greg Isakson all noted how different facilities, properties, and amenities would not exist today if it was not for Richard's advocacy.

The Park Board discussed keeping a portable toilet at Byllesby Park year-round. It was moved by Commissioner Greseth, seconded by Mike Melstad, and carried to keep two portable toilets at Byllesby Park throughout the fall until temperatures drop, then reduce it to one portable over the colder winter months. Staff agreed to check with Rent 'N' Save regarding use during fall months to see if one portable would be sufficient in fall of 2022, or if two is most suitable. Mairi Doerr commented that she liked the idea of mirroring the services provided at Dakota County Lake Byllesby Regional Park to help create the image of one large regional park, and the rest of the Park Board supported that as well.

The Park Board discussed different options for playground replacement in 2027. They recommended considering moving the playground, and adding \$20,000 per year to the budget in 2022-2027 for replacement costs. Possible grants and/or private funding will be researched before 2027.

Byllesby Park, Nielsen Memorial Preserve, and Cannon Valley Trail updates were provided as part of the agenda.

The next meeting date is to be determined.

It was moved by Mike Melstad, seconded by Bernie Overby, and carried to adjourn the meeting at 12:00 PM.

Respectfully submitted, Jennifer Ziemer Goodhue County Administrative Assistant





Public Works Director/County Engineer Goodhue County Public Works Department

> 2140 Pioneer Road Red Wing, MN 55066 Office (651) 385.3025

TO: Goodhue County Parks, Trails, and Recreation Advisory Board

FROM: Greg Isakson, Public Works Director

RE: 07 Oct 21 Park Board Meeting

Byllesby Park Pavilion & Essential Services Project

Date: 01 Oct 21

Summary

It is requested that the Park Board review and approve or request changes to the 50% Byllesby pavilion construction plans that have been prepared by LOCUS Architecture.

Background

The future pavilion at Byllesby Park is part of the Greater MN Regional Parks & Trails Commission grant to bring a larger gathering space, modern restroom facilities, potable drinking water, and electrical outlets to the park.

Once 100% complete, these plans will be presented to Stanton Township for approval of a Zoning Certificate, and submitted for a County Building Permit.

Archaeological work was completed on July 8th. The final report has been prepared and submitted to the State Historic Preservation Office (SHPO). The SHPO review is due back to the County by October 8th. Once the report is cleared and the review letter is submitted to the DNR, the existing middle picnic shelter can then be relocated. Several proposed sidewalk/septic locations are outside of the initial archaeological survey area, and staff will continue to work with the architect and/or SHPO to approve these locations or modify the construction plans.

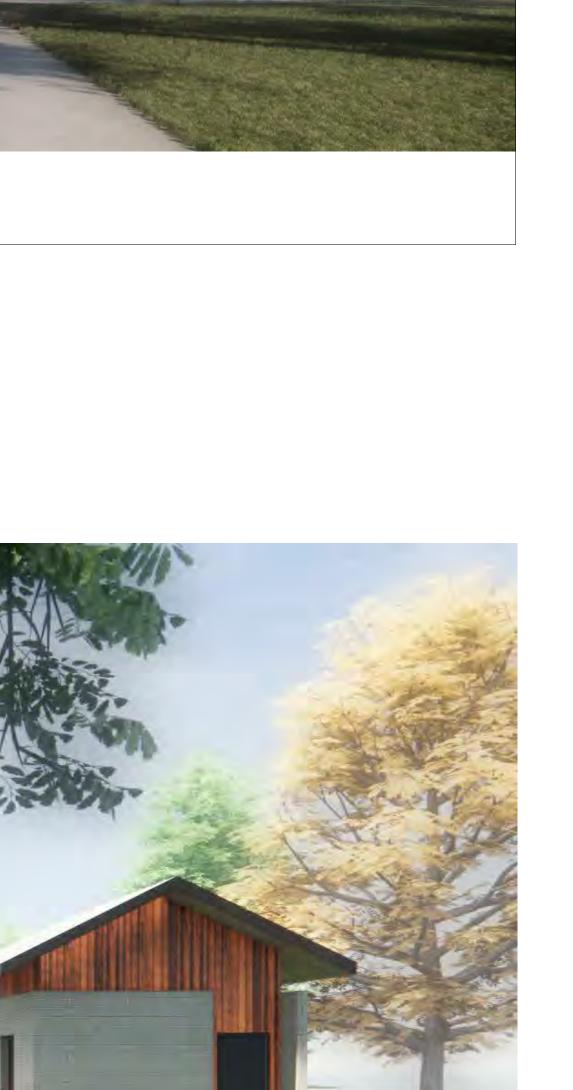
Staff is hoping to post this project for bidding in late 2021 or early 2022, with the bulk of the construction occurring in 2022.

Recommendations

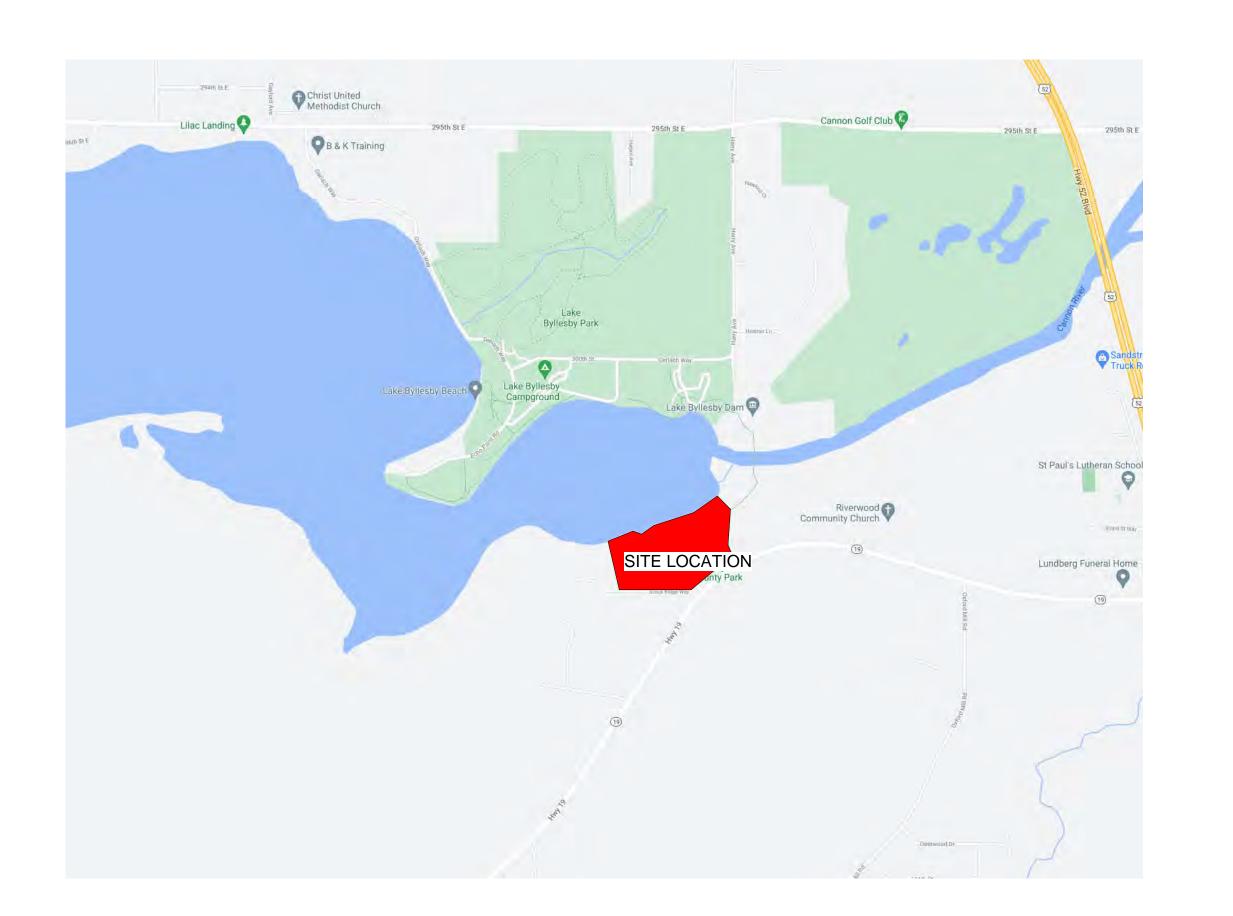
It is the recommendation of staff that the Park Board approve the 50% plans prepared by LOCUS Architecture.



1 PAVILION NOT TO SCALE







(2)	LOCA	ATIC	N	MAP
2	NOT	TO	SC	ALE

DRAWING ABBREVIATIONS

AC	all conditioner		
	above counter	HM	hollow metal
ACT	acoustical ceiling tile	HVAC	heating/ventilation/
ADA	Americans with Disabilities Act		air conditioning
AFF	above finish floor	INSUL	insulation, insulate
APPROX	approximate(ly)	INT	interior
ARCH	architect(ural)	LAV	lavatory
ВС	base cabinet	LVL	laminated veneer lumber
	below counter	MAX	maximum
BLDG	building	MECH	mechanical
B.O.	bottom of, back of	MIN	minimum
BSMT	basement	MISC	miscellaneous
BTWN	between	MO	masonry opening
CAB	cabinet	(N)	new
CJ	control joint	N/A	not applicable
CL	center line	NIC	not in contract
CLR	clear	NTS	not to scale
CLG	ceiling	OC	on center
CMU	concrete masonry unit	PLAM	plastic laminate
CONC	concrete	R	riser
CONT	continuous	RCP	reflected ceiling plan
DEMO	demolition, demolish	REF	refrigerator
DIA	diameter	REV	revised, revision
DIM	dimension	RO	rough opening
DR	door	SF	square foot
DTL	detail	SIM	similar
DW	dishwasher	SIP	structural insulated panel
DWG	drawing	SS	stainless steel
ELEC	electrical	STRUCT	structural
EQ	equal	TR	tread
(E)	existing	TBD	to be determined
EXT	exterior	T.O.	top of
FFE	finish floor elevation	TYP	typical
FLR	floor, flooring	UC	upper cabinet
FNDN	foundation	UNO	unless noted otherwise
FTG	footing	VERT	vertical
F.O.	front of, face of	VIF	verify in field
FRP	fiberglass reinforced panel	W/O	without
GA	gauge	WDW	window
GC	general contractor	WRB	water resistant barrier
GYP BD	gypsum board	XPS	extruded polystyrene
	37 200111 20010		

A-000	TITLE SHEET
C-100 -C-104	CIVIL
S001 - S701	STRUCTURAL

MECHANICAL,, ELECTRICAL & PLUMBING



ARCHITECT OF RECORD

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MEYER BORGMAN JOHNSO

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MECHANICAL & ELECTRICAL ENGINEER

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LAKE BYLLESBY PARK PAVILION + BEACH BATH

50% PROGRESS SET NOT FOR CONSTRUCTION

9/21/2021

GOODHUE COUNTY

No.	Description	Date

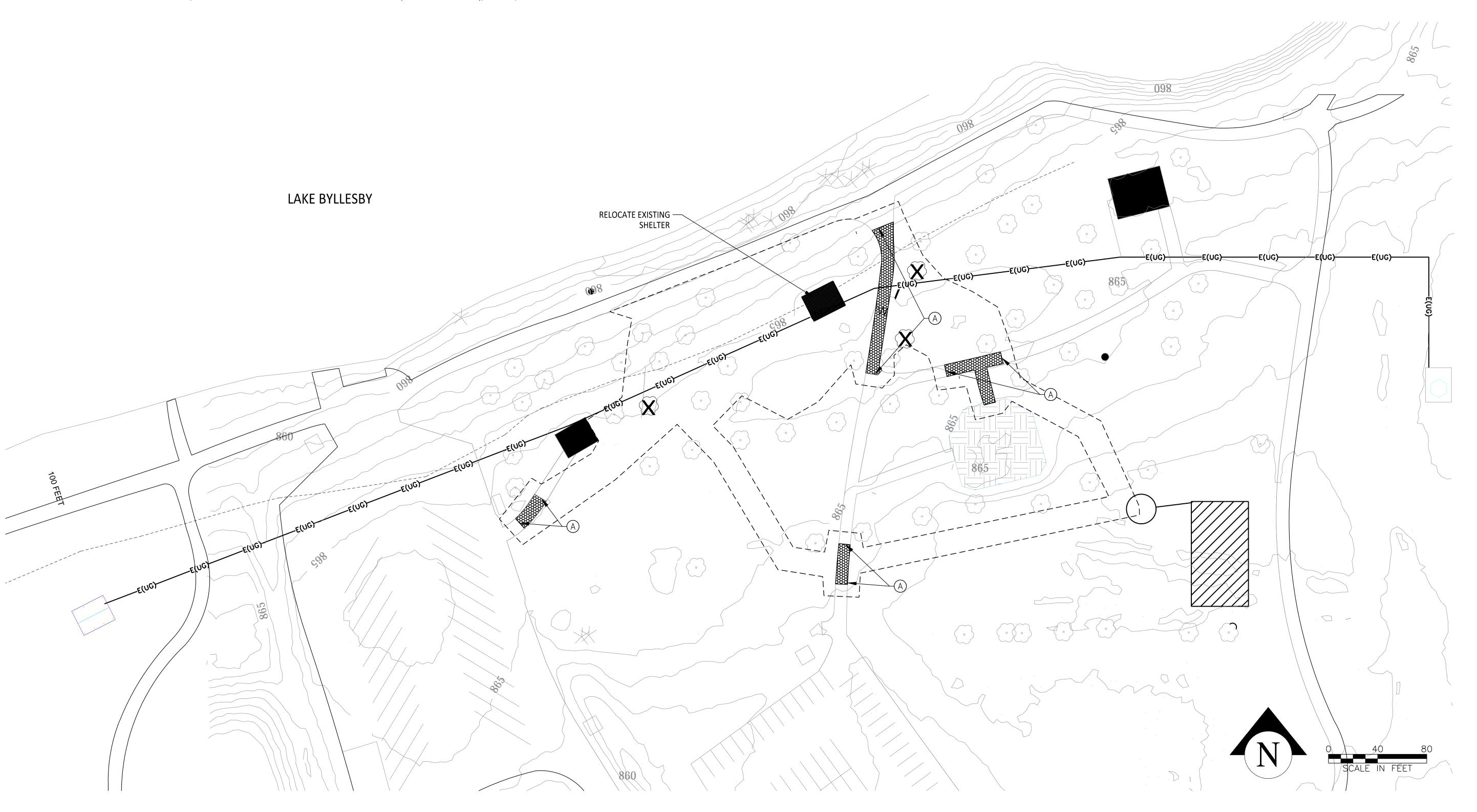
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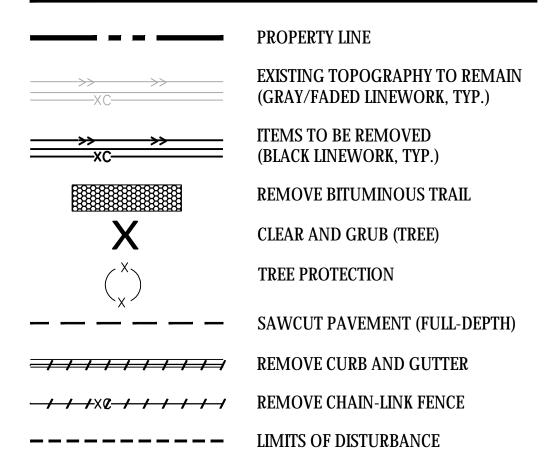
SHEET NUMBER

EXISTING CONDITIONS AND SITE REMOVALS NOTES

- 1. EXISTING CONDITIONS ARE BASED ON LIDAR, NO SURVEY WAS PERFORMED. SRF CANNOT BE HELD RESPONSIBLE FOR DISCREPANCIES BETWEEN EXISTING CONDITIONS AS SHOWN AND ACTUAL FIELD CONDITIONS.
- 2. CONTRACTOR IS SOLELY RESPONSIBLE FOR VERIFYING EXISTING CONDITIONS PRIOR TO THE START OF CONSTRUCTION, AND NOTIFYING THE CIVIL ENGINEER AND OWNER IMMEDIATELY OF ANY DISCREPANCIES. THIS INCLUDES, BUT NOT LIMITED TO, TOPOGRAPHY, ELEVATIONS, UTILITIES, VEGETATION, AND OTHER RELATED ITEMS.
- 3. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL UTILITY LOCATES. THE CONTRACTOR SHALL SUBMIT A TICKET FOR PUBLIC UTILITY LOCATES 48 HOURS PRIOR TO ANY GRADING, EXCAVATION, OR UTILITY WORK THROUGH "GOPHER STATE ONE CALL" (GSOC) AT WWW.GSOCSUBMIT.ORG, OR CALLING 811, ALONG WITH ANY FOLLOW-UP TO MISSING INFORMATION. THE CONTRACTOR MUST HIRE A PRIVATE UTILITY LOCATING SERVICE TO LOCATE PRIVATE UTILITIES IN THE CONSTRUCTION AREA PRIOR TO ANY EXCAVATION. THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY IF ANY DISCREPANCIES ARE FOUND.
- 4. CONTRACTOR SHALL PLACE ALL NECESSARY EROSION CONTROL MEASURES REQUIRED TO MAINTAIN SITE STABILITY PRIOR TO EXECUTING ANY SITE REMOVALS AND IMPROVEMENTS. SEE EROSION CONTROL PLAN AND STORMWATER POLLUTION PREVENTION PLAN (SWPPP) AND RELATED DOCUMENTS.
- 5. CONTRACTOR SHALL COORDINATE LIMITS OF REMOVALS WITH PROPOSED IMPROVEMENTS AND FIELD VERIFY CONDITION OF EXISTING APPURTENANCES TO REMAIN. CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING, REPAIRING, OR REPLACING MISCELLANEOUS ITEMS (SUCH AS FENCES, SIGNS, IRRIGATION HEADS, ETC.) THAT MAY BE DAMAGED BY CONSTRUCTION. CONTRACTOR SHALL PROTECT SURFACE AND SUBSURFACE FEATURES NOT NOTED FOR REMOVAL. PROVIDE SAWCUT AT PAVEMENT EDGE REMOVAL. PROVIDE SMOOTH TRANSITION OF ANY REMOVAL OR IMPROVEMENTS AT DISTURBANCE EDGE. HAUL AND DISPOSE OF ALL REMOVAL ITEMS OFF-SITE.
- 6. CONTRACTOR SHALL DEMOLISH AND REMOVE ALL ITEMS ILLUSTRATED ON THE PLANS AND OTHER ITEMS, AS NECESSARY FOR THE PROJECT AND RELATED IMPROVEMENTS. THIS INCLUDES ITEMS SUCH AS BUILDINGS, ACCESSORY STRUCTURES, FOUNDATIONS, PAVEMENTS, DEBRIS, VEGETATION, SUBSURFACE ITEMS (UTILITIES), UNDESIRED SOIL, AND OTHER RELATED ITEMS. VERIFY ALL SOIL CORRECTIONS WITH GEOTECH REPORT AND RECOMMENDATIONS, UNLESS NOTED OTHERWISE. HAUL AND DISPOSE OF ALL REMOVAL ITEMS OFF-SITE.
- 7. CONTRACTOR SHALL REMOVE, REPAIR AND/OR RELOCATE EXISTING PRIVATE OR PUBLIC UTILITIES AS NECESSARY, WHETHER STATED ON THE PLANS OR NOT, INCLUDING ANY RELATED PERMITS AND FEES. CONTRACTOR TO COORDINATE AND RECEIVE APPROVAL FOR ACTIVITIES WITH OWNER AND UTILITY COMPANIES BEFORE STARTING WORK.
- 8. CLEAR, GRUB, AND REMOVE ALL TREES AND VEGETATION WITHIN THE CONSTRUCTION LIMITS, OR AS NOTED. STRIP TOPSOIL, STOCKPILE, AND REDISTRIBUTE PER GRADING PLAN.
- 9. TREE PROTECTION FENCING SHALL BE INSTALLED AT THE DRIP LINE OF TREES TO REMAIN, OR AS ILLUSTRATED, WITHIN LIMITS OF DISTURBANCE PRIOR TO THE START OF CONSTRUCTION AND MAINTAINED THROUGHOUT THE PROJECT. NO DETRIMENTAL CONDITIONS TO OCCUR AT TREE PRESERVATION AREAS, SUCH AS STORAGE OF EQUIPMENT/MATERIALS, CHEMICAL WASH, OR EXCAVATION
- 10. CONTRACTOR SHALL PROVIDE ALL STAGING AND TEMPORARY TRAFFIC CONTROL FOR THE PROJECT, AS APPROVED BY THE OWNER AND GOVERNING AGENCY. PROVIDE MINIMAL DISRUPTION TO ADJACENT PROPERTIES AND STREETS, OR AS DIRECTED BY PROPERTY OWNER.
- 11. CONTRACTOR SHALL PROVIDE TEMPORARY CONDITIONS, SUCH AS CONSTRUCTION TRAILER, TEMPORARY FENCING, AND OTHER SECURITY MEASURES FOR THE LENGTH OF THE ENTIRE PROJECT.
- 12. ALL CONSTRUCTION PERMITS, APPLICATIONS AND FEES ARE THE RESPONSIBILITY OF THE CONTRACTOR, UNLESS NOTED OTHERWISE.
- 13. FOR ANY SALVAGE AND/OR REINSTALL ITEMS, CONTRACTOR TO PROVIDE ALL WORK RELATED TO RE-LOCATION (TEMP AND PERMANENT), STORAGE, AND PROTECTION.



REMOVAL LEGEND



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LAKE BYLLESBY PARK PAVILION

50% PROGRESS SET NOT FOR CONSTRUCTION

9/22/2021

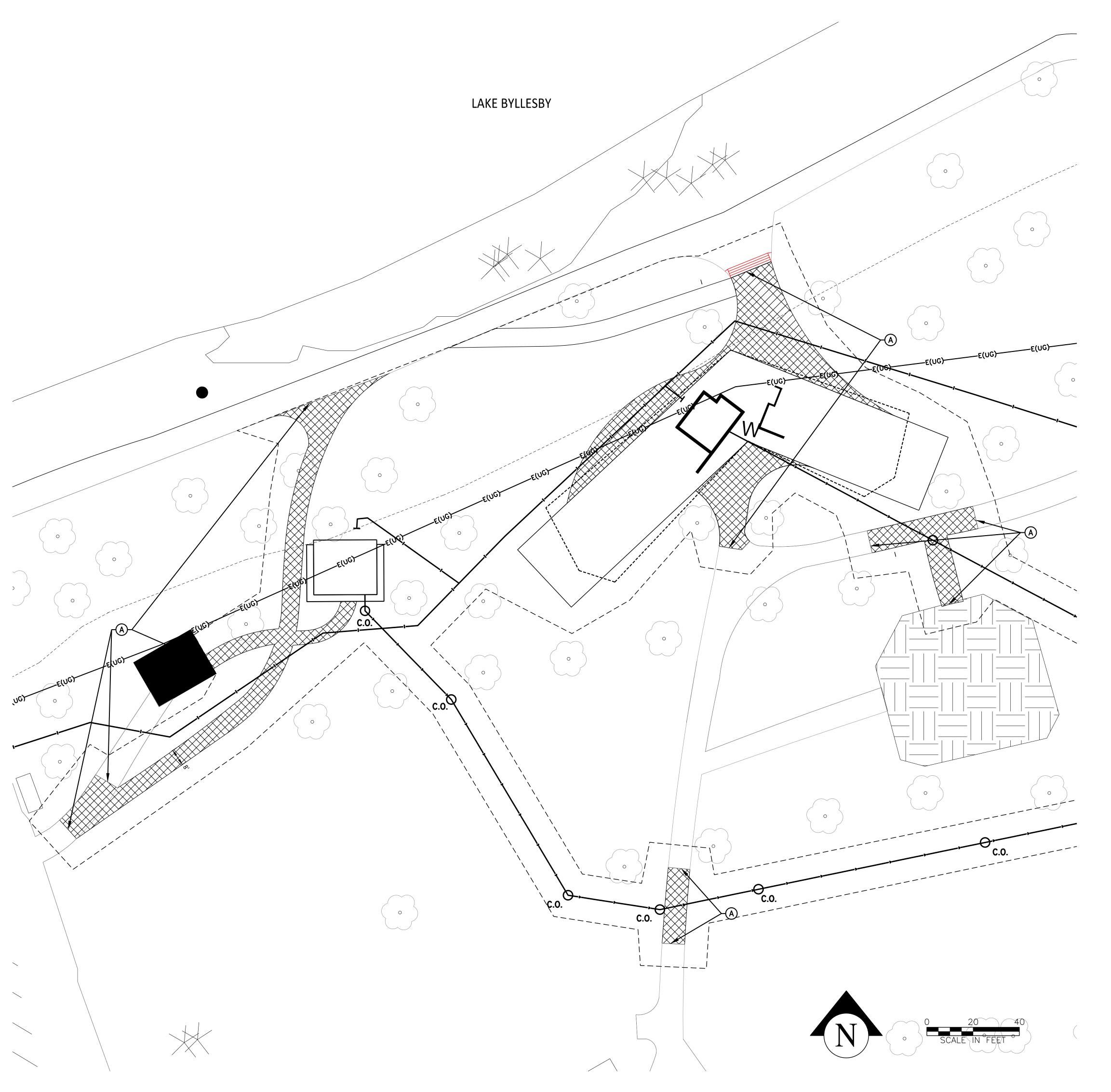
GOODHUE COUNTY

No.	Description

SHEET NAME

REMOVALS PLAN

SHEET NUMBER



SITE NOTES

- 1. SEE EXISTING CONDITIONS AND REMOVAL PLAN, ALONG WITH ANY RELATED SURVEYS FOR DETAILS ON PROPERTY BACKGROUND INFORMATION.
- 2. REFER TO ARCHITECTURAL PLANS FOR MORE INFORMATION ON BUILDINGS, MONUMENT SIGNS, TRASH ENCLOSURES, AND OTHER RELATED ITEMS. VERIFY WITH ARCHITECTURAL PLANS THE EXACT BUILDING DIMENSIONS AND LOCATIONS OF EXITS, RAMPS, TRUCK DOCKS/SERVICE, AND OTHER RELATED BUILDING ITEMS.
- 3. SITE LIGHTING SHOWN ON PLAN IS FOR REFERENCE ONLY. REFER TO LIGHTING PLAN PREPARED BY OTHERS FOR SITE LIGHTING LOCATIONS, DETAILS AND PHOTOMETRICS.
- 4. ALL DIMENSIONS ARE TO FACE OF CURB, EDGE OF CONCRETE, OR EXTERIOR FACE OF BUILDING, UNLESS NOTED OTHERWISE.
- 5. ALL CURB RADII SHALL BE 5.0 FEET (TO FACE OF CURB), UNLESS OTHERWISE NOTED.
- 6. ALL CURB AND GUTTER SHALL BE CONCRETE B612 UNLESS OTHERWISE NOTED.
- 7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND MAINTAINING TRAFFIC CONTROL DEVICES SUCH AS BARRICADES, WARNING SIGNS, DIRECTIONAL SIGNS, FLAGGERS, AND LIGHTS TO CONTROL THE MOVEMENT OF TRAFFIC WHERE NECESSARY. PLACEMENT OF THESE DEVICES SHALL BE APPROVED BY THE CITY PRIOR TO PLACEMENT. TRAFFIC CONTROL DEVICES IN PUBLIC RIGHT-OF-WAY SHALL CONFORM TO APPROPRIATE MNDOT STANDARDS, OR AS APPROVED.
- 8. BITUMINOUS PAVEMENT AND CONCRETE SECTIONS TO BE IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE GEOTECHNICAL ENGINEER, OR AS NOTED. PAVEMENT AND OTHER IMPROVEMENTS TO ADHERE TO ALL AMERICANS WITH DISABILITIES ACT (ADA) REQUIREMENTS FOR ACCESSIBILITY, INCLUDING SLOPE. CONTACT ENGINEER IMMEDIATELY INVOLVING ANY DISCREPANCIES.
- 9. CONTRACTOR SHALL MAINTAIN FULL ACCESS TO ADJACENT PROPERTIES DURING CONSTRUCTION AND TAKE ALL PRECAUTIONS NECESSARY TO AVOID PROPERTY DAMAGE TO ADJACENT PROPERTIES.
- 10. CONTRACTOR SHALL PROVIDE ALL CONSTRUCTION STAKING.
- 11. CONTRACTOR SHALL PROVIDE ALL SITE GOVERNMENTAL PERMITS AND FEES.

SIGNAGE AND STRIPING NOTES

- 1. ALL TRAFFIC SIGNS, PAVEMENT MARKINGS, AND OTHER TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE STANDARDS OF THE MINNESOTA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MMUTCD), OR AS NOTED OTHERWISE.
- 2. PARKING LOT STRIPING SHALL BE 4" WIDE COLOR WHITE, TWO COATS OF PAINT. CONTRACTOR SHALL PAINT ANY/ALL DIRECTIONAL TRAFFIC ARROWS AS SHOWN IN WHITE (TWO COATS).
- 3. ACCESSIBLE PARKING SIGNS AND MARKINGS PER LATEST ADA CODE AND REQUIREMENTS. CONTRACTOR SHALL PAINT THE INTERNATIONAL SYMBOL OF ACCESSIBILITY IN EACH DESIGNATED ACCESSIBLE STALL IN BLUE BACKGROUND WITH WHITE BORDER (TWO COATS OF PAINT). CONTRACTOR SHALL PAINT THE WORDS "NO PARKING" IN EACH ACCESSIBLE ISLE ADJACENT TO AN ACCESSIBLE SPACE IN WHITE LETTERS MINIMUM 12" IN HEIGHT. SIGNS TO BE LOCATED AT THE HEAD OF THE PARKING SPACE. SEE ACCESSIBLE PARKING DETAILS.
- 4. ALL SIGNS SHALL INCLUDE MOUNTING HARDWARE, POST, CONCRETE FOOTING AND CASING WHERE REQUIRED. CONCRETE CASING REQUIRED IN LOCATIONS WHERE POST IS NOT PROTECTED BY CURB.
- 5. IF NOTED, ALL STOP SIGNS SHALL INCLUDE A 12" WIDE PAINTED STOP BAR IN WHITE PAINT (TWO COATS) PLACED AT THE STOP SIGN LOCATION, A MINIMUM OF 4' FROM CROSSWALK. ALL STOP BARS SHALL EXTEND FROM DIRECTIONAL TRANSITION BETWEEN LANES TO THE CURB.
- 6. ALL SIGNS SHALL BE PLACED 18" BEHIND THE BACK OF CURB, UNLESS OTHERWISE NOTED.

SITE LEGEND

PROPERTY LINE

EASEMENT

SETBACK LINE (PER CODE)

EXISTING CONDITIONS

BITUMINOUS PAVEMENT

8" CONCRETE PAVEMENT

4" CONCRETE WALK

COMPACTED AGGREGATE

TRUNCATED DOMES

CURB AND GUTTERCURB AND GUTTER (TIP-OUT)

CURB AND GUTTER (TAPER TO FLUSH)

PARKING LOT POLE LIGHT

CONCRETE WHEEL STOP

PARKING SPACES PER ROW

LIMITS OF DISTURBANCE

POND NORMAL WATER LINE (NWL)

© SITE KEY NOTES

A. BITUMINOUS PAVEMENT - MATCH INTO EXISTING

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LAKE BYLLESBY PARK PAVILION

50% PROGRESS SET

NOT FOR CONSTRUCTION

9/22/2021

CLIENT

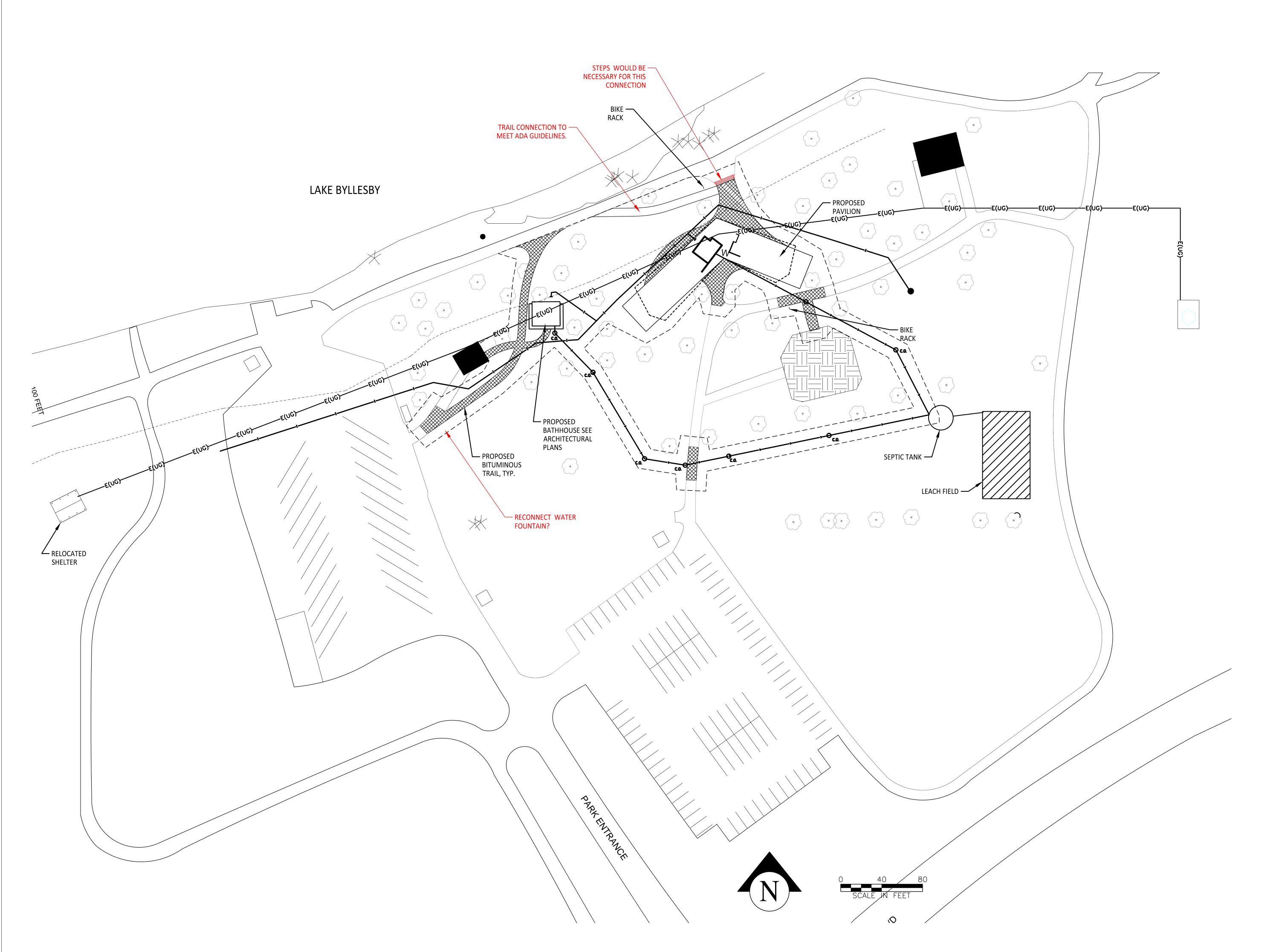
GOODHUE COUNTY

No.	Description

SHEET NAME

SITE PLAN

SHEET NUMBER



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LAKE BYLLESBY PARK PAVILION

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140.	Description

SHEET NAME

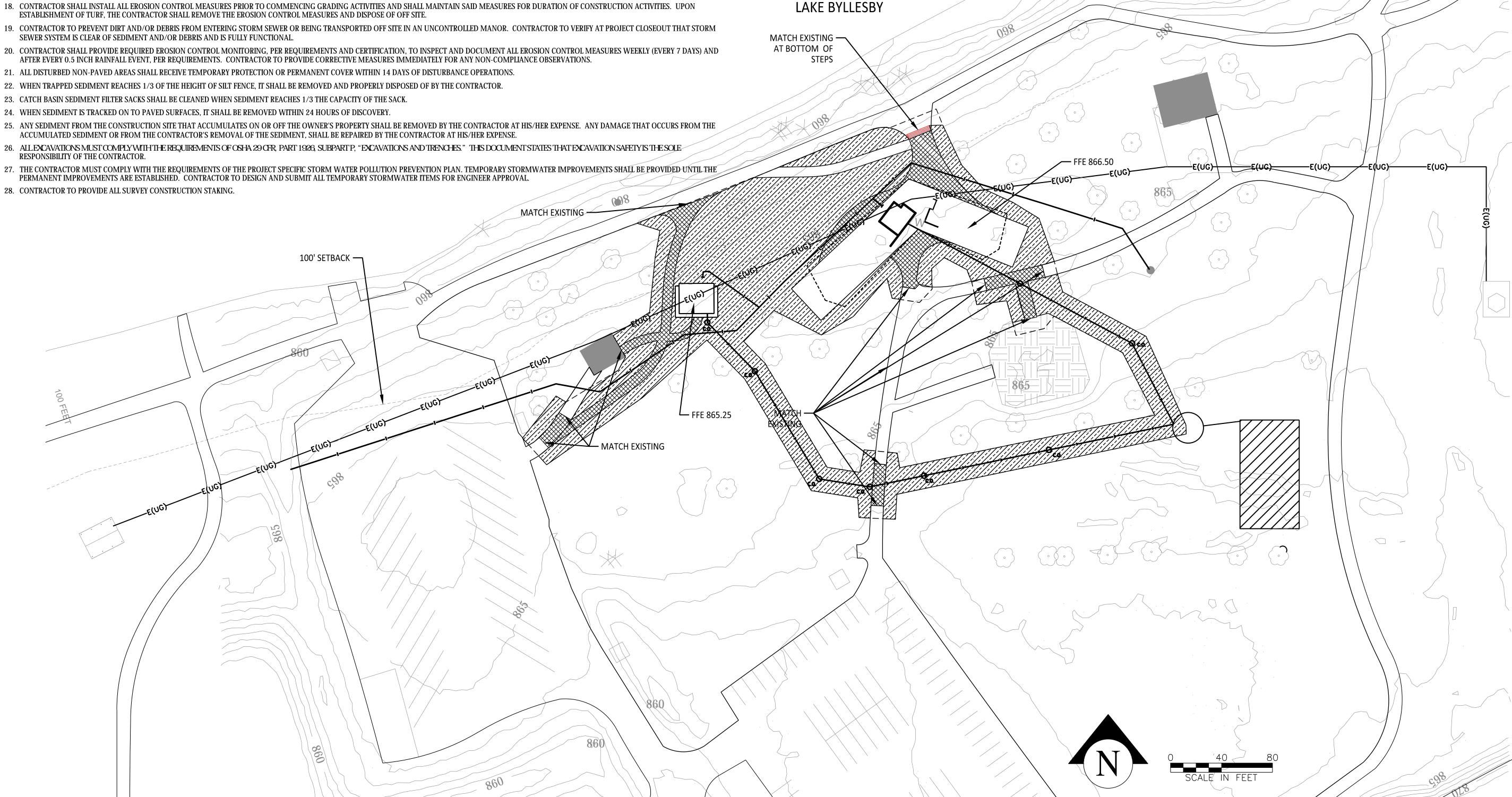
SITE PLAN

SHEET NUMBER

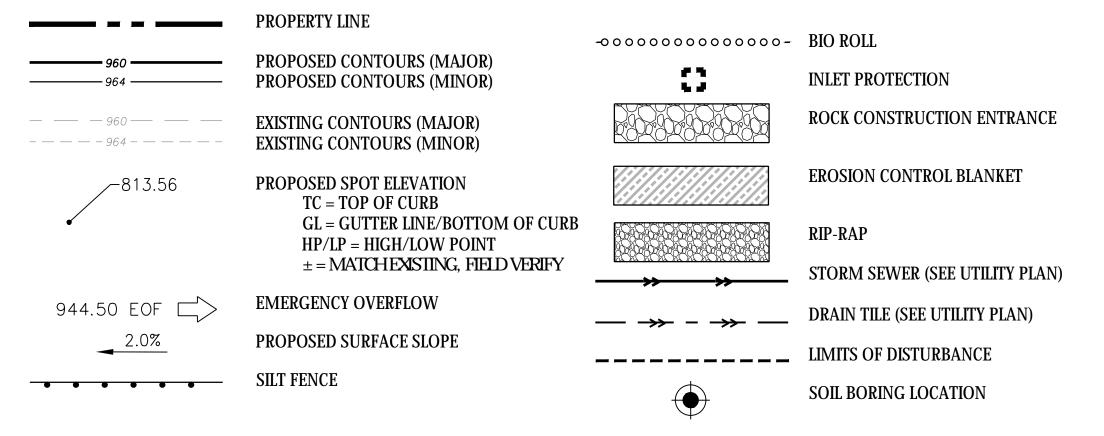
GRADING, DRAINAGE, AND EROSION CONTROL NOTES

- 1. THE SUBSURFACE UTILITY INFORMATION IN THIS PLAN IS UTILITY QUALITY LEVEL D. THIS QUALITY LEVEL WAS DETERMINED ACCORDING TO THE GUIDELINES OF CI/ASCE 38-2, ENTITLED "STANDARD GUIDELINES FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA:
- THE CONTRACTOR SHALL FIELD VERIFY LOCATIONS AND ELEVATIONS OF EXISTING UTILITIES AND TOPOGRAPHIC FEATURES PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITY. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES OR VARIATIONS FROM THE PLANS.
- 3. CONTRACTOR TO PROVIDE ALL WORK AND MATERIALS FOR GRADING, SUBSOIL CORRECTIONS (IMPORT/EXPORT), RETAINING WALLS, TOPSOIL, EROSION CONTROL AND OTHER RELATED ITEMS.
- 4. SPOT ELEVATIONS REPRESENT FINISHED SURFACE GRADES, GUTTER/FLOW LINE, FACE OF BUILDING, OR EDGE OF PAVEMENT UNLESS OTHERWISE NOTED
- 5. CATCH BASINS AND MANHOLES IN PAVED AREAS SHALL BE SUMPED 0.04 FEET. ALL CATCH BASINS IN GUTTERS SHALL BE SUMPED 0.16 FEET. RIM ELEVATIONS SHOWN ON PLANS DO NOT REFLECT SUMPED ELEVATIONS.
- 6. ALL DISTURBED UNPAVED AREAS ARE TO RECEIVE MINIMUM OF 4 INCHES OF TOP SOIL AND SEED/MULCH OR SOD. THESE AREAS SHALL BE WATERED/MAINTAINED BY THE CONTRACTOR UNTIL VEGETATION IS ESTABLISHED. STRIP, STOCKPILE, AND REDISTRIBUTE EXISTING TOPSOIL, AS SUITABLE.
- 7. FOR SITE RETAINING WALLS "TW" EQUALS SURFACE GRADE AT TOP FACE OF WALL (NOT TOP OF WALL), "GW" EQUALS SURFACE GRADE AT WALL GRADE TRANSITION, AND "BW" EQUALS SURFACE GRADE AT BOTTOM FACE OF WALL (NOT BOTTOM OF BURIED WALL COURSES).
- 8. STREETS MUST BE CLEANED AND SWEPT WHENEVER TRACKING OF SEDIMENTS OCCURS AND BEFORE SITES ARE LEFT IDLE FOR WEEKENDS AND HOLIDAYS. A REGULAR SWEEPING SCHEDULE MUST BE ESTABLISHED.
- 9. DUST SHALL BE ADEQUATELY CONTROLLED.
- 10. ALL SLOPES 1:3 (V:H) OR GREATER REQUIRED TO RECEIVE SURFACE EROSION CONTROL WHETHER IT IS INDICATED ON THE PLAN OR NOT: MAINTAIN SHEET FLOW AND MINIMIZE RILLS AND/OR GULLIES.
- 11. ALL STORM DRAINS AND INLETS MUST BE PROTECTED UNTIL ALL SOURCES OF POTENTIAL DISCHARGE ARE STABILIZED.
- 12. TEMPORARY SOIL STOCKPILES MUST HAVE EFFECTIVE SEDIMENT CONTROL AND CAN NOT BE PLACED IN SURFACE WATERS OR STORM WATER CONVEYANCE SYSTEMS. TEMPORARY STOCKPILES WITHOUT SIGNIFICANT AMOUNT OF SILT, CLAY, OR ORGANIC COMPOUNDS ARE EXEMPT EX: CLEAN AGGREGATE STOCK PILES, DEMOLITION CONCRETE STOCKPILES, SAND STOCKPILES.
- 13. FINAL STABILIZATION REQUIRES THAT ALL SOIL DISTURBING ACTIVITIES HAVE BEEN COMPLETED AND THAT DISTURBED AREAS ARE STABILIZED BY A UNIFORM PERENNIAL VEGETATIVE COVER WITH 70% OF THE EXPECTED FINAL DENSITY, AND THAT ALL PERMANENT PAVEMENTS HAVE BEEN INSTALLED. ALL TEMPORARY BMP'S SHALL BE REMOVED, DITCHES STABILIZED, AND SEDIMENT SHALL BE REMOVED FROM PERMANENT CONVEYANCES AND SEDIMENTATION BASINS IN ORDER TO RETURN THE POND/BASIN TO DESIGN CAPACITY.
- 14. THE WATERSHED DISTRICT OR THE CITY MAY HAVE REQUIREMENTS FOR INSPECTIONS VERIFYING PROPER CONSTRUCTION OF THE BEST MANAGMENT PRACTICES (BMP) THE MORE RESTRICTIVE REQUIREMENT SHALL
- 15. SEE STORMWATER POLLUTION PREVENTION PLAN (SWPPP) NOTES AND DETAILS FOR ADDITIONAL EROSION CONTROL NOTES AND REQUIREMENTS. CONTRACTOR SHALL PROVIDE ALL REQUIRED EROSION CONTROL PERMITS/FEES, INSPECTORS, INSPECTIONS, AND DOCUMENTATION. PLAN REPRESENTS MINIMAL EROSION CONTROL, CONTRACTOR TO PROVIDE ADDITIONAL MEANS AND METHODS FOR THE PROJECT AS NECESSARY TO MAINTAIN COMPLIANCE.
- 16. CONTRACTOR TO PROVIDE ALL SUBGRADE SOIL CORRECTIONS, INCLUDING REMOVAL OF SUBGRADE DEBRIS, FOR PROJECT IMPROVEMENTS SUCH AS BUILDING, PAVEMENT, UTILITY, RETAINING WALLS, AND OTHER RELATED ITEMS. REFER TO THE RECOMMENDATIONS IN THE GEOTECHNICAL REPORT FOR ANY ADDITIONAL SITE PREPARATION INFORMATION OR REQUIREMENTS.
- 18. CONTRACTOR SHALL INSTALL ALL EROSION CONTROL MEASURES PRIOR TO COMMENCING GRADING ACTIVITIES AND SHALL MAINTAIN SAID MEASURES FOR DURATION OF CONSTRUCTION ACTIVITIES. UPON ESTABLISHMENT OF TURF, THE CONTRACTOR SHALL REMOVE THE EROSION CONTROL MEASURES AND DISPOSE OF OFF SITE.
- 19. CONTRACTOR TO PREVENT DIRT AND/OR DEBRIS FROM ENTERING STORM SEWER OR BEING TRANSPORTED OFF SITE IN AN UNCONTROLLED MANOR. CONTRACTOR TO VERIFY AT PROJECT CLOSEOUT THAT STORM
- AFTER EVERY 0.5 INCH RAINFALL EVENT, PER REQUIREMENTS. CONTRACTOR TO PROVIDE CORRECTIVE MEASURES IMMEDIATELY FOR ANY NON-COMPLIANCE OBSERVATIONS.

- 24. WHEN SEDIMENT IS TRACKED ON TO PAVED SURFACES, IT SHALL BE REMOVED WITHIN 24 HOURS OF DISCOVERY.
- 25. ANY SEDIMENT FROM THE CONSTRUCTION SITE THAT ACCUMULATES ON OR OFF THE OWNER'S PROPERTY SHALL BE REMOVED BY THE CONTRACTOR AT HIS/HER EXPENSE. ANY DAMAGE THAT OCCURS FROM THE ACCUMULATED SEDIMENT OR FROM THE CONTRACTOR'S REMOVAL OF THE SEDIMENT, SHALL BE REPAIRED BY THE CONTRACTOR AT HIS/HER EXPENSE.
- 26. ALL EXCAVATIONS MUST COMPLY WITH THE REQUIREMENTS OF OSHA 29 CFR, PART 1926, SUBPART P, "EXCAVATIONS AND TRENCHES." THIS DOCUMENT STATES THAT EXCAVATION SAFETY IS THE SOLE-RESPONSIBILITY OF THE CONTRACTOR.
- 27. THE CONTRACTOR MUST COMPLY WITH THE REQUIREMENTS OF THE PROJECT SPECIFIC STORM WATER POLLUTION PREVENTION PLAN. TEMPORARY STORMWATER IMPROVEMENTS-SHALL BE PROVIDED UNTIL THE
- 28. CONTRACTOR TO PROVIDE ALL SURVEY CONSTRUCTION STAKING.



GRADING AND EROSION CONTROL LEGEND



LAKE BYLLESBY **PARK PAVILION**

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ARCHITECT OF RECORD

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Wynne Yelland

612.232.3609

50% PROGRESS SET NOT FOR CONSTRUCTION

9/22/2021

CLIENT **GOODHUE COUNTY**

No.	Description

SHEET NAME

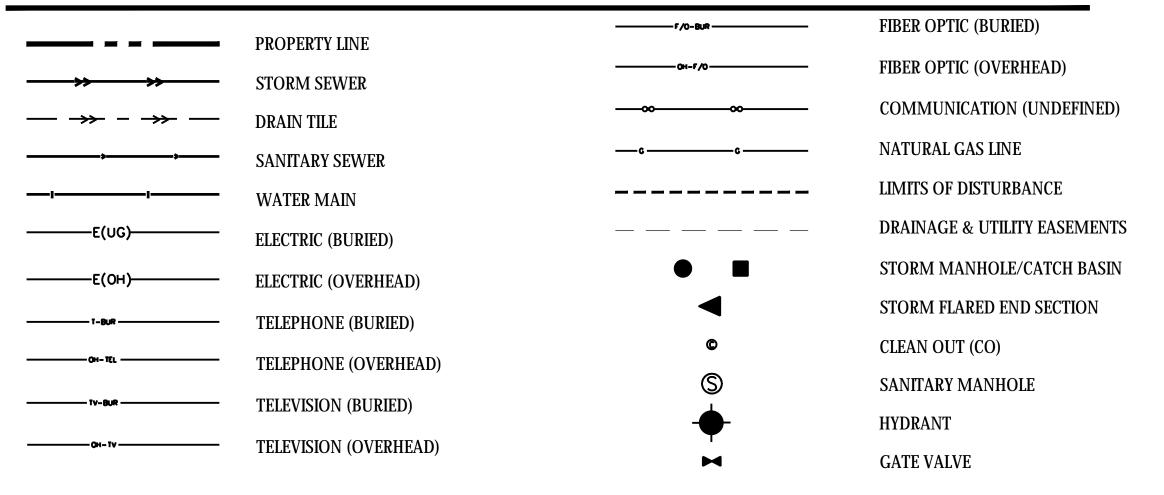
GRADING AND EROSION CONTROL **PLAN**

UTILITY NOTES

- THE SUBSURFACE UTILITY INFORMATION IN THIS PLAN IS UTILITY QUALITY LEVEL D. THIS QUALITY LEVEL WAS DETERMINED ACCORDING TO THE GUIDELINES OF CI/ASCE 38-2, ENTITLED "STANDARD GUIDELINES FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA."
- 2. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL UTILITY LOCATES. CONTACT GOPHER SATE ONE CALL PER STATE STATUTES FOR PUBLIC UTILITY LOCATES PRIOR TO ANY EXCAVATION. THE CONTRACTOR MUST HIRE A PRIVATE UTILITY LOCATING SERVICE TO LOCATE PRIVATE UTILITIES IN THE CONSTRUCTION AREA PRIOR TO ANY EXCAVATION.
- 3. SEE EXISTING CONDITIONS FOR SURVEY INFORMATION. THE ENGINEER CAN NOT BE HELD
- RESPONSIBLE FOR INACCURACIES RELATED TO THE SURVEY INFORMATION. 4. COMPLY WITH ALL LOCAL AND STATE REQUIREMENTS FOR UTILITY MATERIALS, INSTALLATION,
- OBTAIN ALL PERMITS OR APPROVALS FROM LOCAL UTILITY OWNERS PRIOR TO BEGINNING UTILITY INSTALLATIONS. NOTIFY UTILITY OWNERS OF THE START OF CONSTRUCTION FOR THE PROJECT AND ANY SPECIFIC UTILITY WORK AT LEAST 48 HOURS IN ADVANCE.
- FIELD VERIFY AND COORDINATE ALL BUILDING UTILITY CONNECTIONS AND PUBLIC UTILITY SERVICE CONNECTIONS PRIOR TO CONSTRUCTION, INCLUDING LOCATION, TYPE, SIZE, AND INVERT ELEVATION. NOTIFY ENGINEER OF ANY DISCREPANCIES FROM THE PLAN FOR RESOLUTION PRIOR TO BEGINNING UTILITY INSTALLATIONS.
- ADJUST, OR ARRANGE TO BE ADJUSTED BY UTILITY OWNER, ALL STRUCTURES, PUBLIC AND PRIVATE, TO PROPOSED GRADES WHERE DISTURBED. COMPLY WITH ALL REQUIREMENTS OF UTILITY OWNERS. STRUCTURES BEING RESET IN PAVED AREAS TO MEET OWNER'S REQUIREMENTS FOR TRAFFIC LOADING.
- 8. SERVICE UTILITIES, SUCH AS ELECTRIC (TRANSFORMER), GAS, TELEPHONE, CABLE, FIBER OPTIC, AND OTHER RELATED SMALL UTILITIES, MAY BE SHOWN FOR GENERAL REFERENCE AND ARE DEEMED CONCEPTUAL LOCATIONS. CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING AND COORDINATING ALL LOCATIONS OF SERVICE UTILITY CONNECTIONS AND RELATED ITEMS WITH SERVICE PROVIDERS.
- 9. WATERMAIN AND WATER SERVICE CONNECTIONS TO BE CLASS 52 DUCTILE IRON PIPE (DIP), UNLESS NOTED OTHERWISE. MAINTAIN 7.5' OF COVER ON ALL NEW WATERMAIN. PROVIDE EQUIVALENT, AT 4-INCH THICKNESS.

- 10. WATERMAIN SHALL BE INSTALLED IN CONFORMANCE WITH THE CITY ENGINEER'S ASSOCIATION OF MINNESOTA (CEAM) STANDARDS OR THE CITY'S WATERMAIN INSTALLATION STANDARDS. WHERE CONFLICTS OCCUR, THE MORE RESTRICTIVE REQUIREMENT SHALL GOVERN.
- 11. SANITARY SEWER PIPE OUTSIDE THE BUILDING SHALL BE POLYVINYL CHLORIDE (PVC) SDR35 OR 26. SDR 26 REQUIRED FOR DEPTHS GREATER THAN 15 FEET.
- 12. STORM SEWER PIPE SHALL BE REINFORCED CONCRETE PIPE (RCP), WITH R-4 GASKETS. RCP CLASS 5 FOR PIPE DIAMETERS 18" OR SMALLER, CLASS 3 FOR PIPE DIAMETERS 21" AND LARGER UNLESS OTHERWISE NOTED. POLYVINYL CHLORIDE PIPE (PVC) TO BE SCHEDULE 40. IF ALLOWED BY THE CITY, HIGH DENSITY POLYETHYLENE PIPE (HDPE) SHALL MEET REQUIREMENTS OF ASTM F2648. PIPE SHALL BE WATER TIGHT ACCORDING TO ASTM D3212 REQUIREMENTS. FLARED END SECTIONS SHALL BE RCP WITH TRASH GUARDS AND ROCK RIP-RAP.
- 13. OUTSIDE OF PUBLIC RIGHT OF WAY, INLET AND OUTLET CONNECTIONS TO SEWER STRUCTURES SHALL USE APPROVED RESILIENT RUBBER JOINTS TO MAKE WATERTIGHT CONNECTIONS TO MANHOLES, CATCH BASINS, AND OTHER STRUCTURES.
- 14. ALL MANHOLE COVERS TO BE STAMPED EITHER SANITARY OR STORM SEWER.
- 15. PIPE LENGTHS THAT MAY BE SHOWN ARE HORIZONTALLY FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE.
- 16. SITE UTILITY SERVICES TYPICALLY TERMINATE 5 FEET FROM BUILDING, UNLESS NOTED
- 17. ALL EXCAVATIONS MUST COMPLY WITH THE REQUIREMENTS OF
- OSHA 29 CFR, PART 1926, SUBPART P, "EXCAVATIONS AND TRENCHES." THIS DOCUMENT STATES THAT EXCAVATION SAFETY IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- 18. DRAINTILE LOCATIONS AND QUANTITIES ARE APPROXIMATE AS ILLUSTRATED. FIELD VERIFY FINAL LOCATIONS.
- 19. AFTER CONSTRUCTION IS COMPLETE. THE CONTRACTOR SHALL PROVIDE THE OWNER WITH AN AS-BUILT RECORD OF UTILITY CONSTRUCTION. THE AS-BUILT SHALL INCLUDE LOCATION AND LENGTH DEVIATIONS OR CHANGES TO THE PLAN. CONTRACTOR TO VERIFY WITH OWNER OR ENGINEER WHETHER A PLAN WITH POST-CONSTRUCTION ELEVATIONS IS REQUIRED.

UTILITY LEGEND



LAKE BYLLESBY

PARK PAVILION

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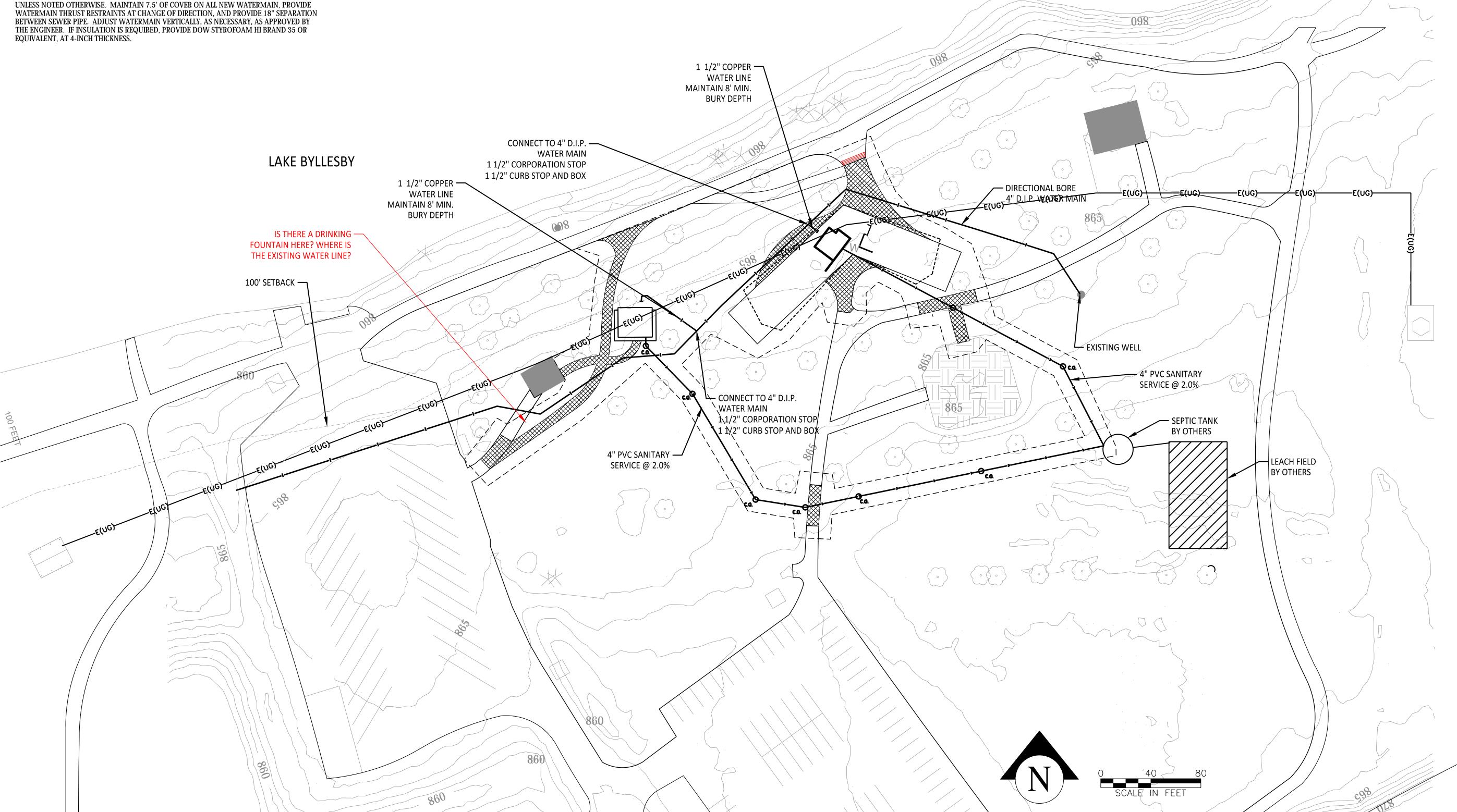
CLIENT GOODHUE COUNTY

NO.	Description	

SHEET NAME

UTILITY PLAN

SHEET NUMBER



STRUCTURAL ABBREVIATIONS: $\cap TV$ OHANTITY ADDITIONAL HOOK

ADDL ADJ ALT ALUM AR ARCH	ADDITIONAL ADJACENT ALTERNATE ALUMINUM ANCHOR ROD ARCHITECT	HK HORIZ HSA HSS HT	HOOK HORIZONTAL HEADED STUD ANCHOR HOLLOW STRUCTURAL SHAPE HEIGHT	QTY R R RD REF	RADIUS ROOF DRAIN REFERENCE
BDE BFE BM BOT BP BR BTWN	BOTTOM OF DECK ELEVATION BOTTOM OF FOOTING ELEVATION BEAM BOTTOM BEARING PLATE / BASE PLATE BOTTOM REINFORCING BETWEEN	ID INCL ISF J JT JBE	INSIDE DIAMETER INCLUDE INSIDE FACE JOINT JOIST BEARING ELEVATION	REINF REQD REV RO RSS RTU	REINFORCEMENT/REINFORCING REQUIRED REVISION ROUGH OPENING RUGGED STRUCTURAL SCREW ROOF TOP UNIT
C	DEIWEEN	K		SB SC	SOIL BORING SLIP CRITICAL
CANTL CFS CGS CIP CJ CJP CL	CANTILEVER COLD-FORMED STEEL CENTER OF GRAVITY STRAND CAST IN PLACE CONTROL JOINT COMPLETE JOINT PENETRATION CENTER LINE	K KLF KSF KSI KO	KIPS KIPS PER LINEAL FOOT KIPS PER SQUARE FOOT KIPS PER SQUARE INCH KNOCK OUT	SCHED SER SF SIM SL SOG SPA SPEC	SCHEDULE STRUCTURAL ENGINEER OF RECORD SQUARE FOOT SIMILAR SNOW LOAD SLAB ON GRADE SPACES SPECIFICATION
CLR CMU COL CONC CONN(S) CONST CONT D	CLEAR CONCRETE MASONRY UNIT COLUMN CONCRETE CONNECTION(S) CONSTRUCTION CONTINUOUS	LB(S) LL LLH LLV LONG LSL LSH LSV	POUND(S) LIVE LOAD LONG LEG HORIZONTAL LONG LEG VERTICAL LONGITUDINAL LAMINATED STRAND LUMBER LONG SIDE HORIZONTAL LONG SIDE VERTICAL	SPF SS SSLT STD STIFF STL STRUCT SYM	SPRUCE PINE FIR STAINLESS STEEL SHORT-SLOT LOAD TRANSVERSE STANDARD STIFFENER STEEL STRUCTURE / STRUCTURAL SYMMETRICAL
d db DBA	NAIL DIAMETER BAR DIAMETER DEFORMED BAR ANCHOR	LWT LVL M	LIGHT WEIGHT LAMINATED VENEER LUMBER	SYP T	SOUTHERN YELLOW PINE
DBL DEG DEMO DF DIA DIAG DIM DL	DOUBLE DEGREE DEMOLITION DOUGLAS FIR-LARCH DIAMETER DIAGONAL DIMENSION DEAD LOAD	MAX MECH MEP MEZZ MFR MIN MISC MSR MTL	MAXIMUM MECHANICAL MECHANICAL, ELECTRICAL & PLUMBING MEZZANINE MANUFACTURER MINIMUM MISCELLANEOUS MACHINE STRESS RATED METAL	T/G TBE TDE TEMP TFE TGBE TPCE TPCPE TR	TONGUE AND GROOVED TOP OF BEAM ELEVATION TOP OF DECK ELEVATION TEMPORARY TOP OF FOOTING ELEVATION TOP OF GRADE BEAM ELEVATION TOP OF PILE CAP ELEVATION TOP OF PRECAST PLANK ELEVATION TOP OF PIER ELEVATION TOP REINFORCING
EA EF EL ELEC ELEV EJ EMBED	EACH EACH FACE ELEVATION ELECTRICAL ELEVATOR EXPANSION JOINT EMBEDMENT	NIC N-S NTS NWT	NOT IN CONTRACT NORTH - SOUTH DIRECTION NOT TO SCALE NORMAL WEIGHT	TR TRANS TSE TSE TSE TWE TYP	TOP REINFORCING TRANSVERSE TOP OF SHEATHING ELEVATION TOP OF SLAB ELEVATION TOP OF SUBFLOOR ELEVATION TOP OF WALL ELEVATION TYPICAL
EQ EQUIP	EQUAL FOURMENT			LINO	LINI ESS NOTED OTHERWISE

ON CENTER

OPENING

OPPOSITE

PLATE

PLYWOOD

PREFABRICATED

POST TENSIONED

PROJECTION

OUT TO OUT

OPNG OPP O/O

PLYWD

PRE FAB

PROJ

PSF

OUTSIDE FACE

OUTSIDE DIAMETER

POWER ACTUATED FASTENER

PRECAST CONCRETE

POUNDS PER LINEAL FOOT

POUNDS PER SQUARE FOOT

POUNDS PER SQUARE INCH

PARALLEL STRAND LUMBER

UNLESS NOTED OTHERWISE

UNREINFORCED MASONRY

VERTICAL

WITH

WITHOUT

WIDE FLANGE

WIND LOAD

WORK POINT

WELDED WIRE FABRIC

WEIGHT

WOOD

URM

EQ

ES

EXP

FDN

FD

FFE FLR

FS

FT

FTG

GR

EQUIP

EQUIPMENT

EACH SIDE

EACH WAY

EXISTING

EXPANSION

FOUNDATION

FLOOR DRAIN

FOOTING STEP

FIELD VERIFY

GAGE/GAUGE

GALVANIZED GRADE BEAM

GRADE

GENERAL CONTRACTOR GLUE LAMINATED BEAM

GYPSUM WALL BOARD

GENERAL STRUCTURAL NOTES

FLOOR

FOOTING

EAST - WEST DIRECTION

FINISHED FLOOR ELEVATION

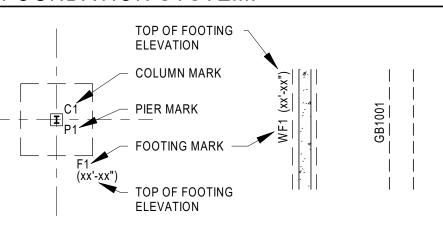
MARKS AND SYMBOLS LEGEND:

MARKS:		GENERAL SYMBOLS:		
B1001	CONCRETE BEAM MARK NUMBER		APPROXIMATE LOCATION OF DRAIN TILE	
B1001-PT	POST TENSIONED CONCRETE BEAM MARK NUMBER		MATCH LINE	
BP1	BEARING / BASE PLATE MARK NUMBER		LINE OF DEMOLITION	
BRF1	BRACE FRAME MARK NUMBER	(21.211)	LINE OF DEMOLITION	
BR1	MILD STEEL BOTTOM REINFORCING MARK NUMBER	(3,-3,,) (5,-3,,)	SLAB STEP LOCATION WITH ELEVATIONS	
C1	COLUMN MARK NUMBER		SLAB STEP LOCATION	
CC1	CONCRETE COLUMN MARK NUMBER		CLAD OTEL ECOATION	
CW1	CONCRETE WALL NUMBER		CHANGE IN SLAB SLOPE	
D1	STEEL DECK MARK NUMBER		CHANGE IN SLAB THICKNESS	
DC1	DROP CAPITAL MARK NUMBER	7777	CHANGE IN CEAS THICKNESS	
DP1	DRILLED PIER MARK NUMBER	$\langle 1 \rangle$	KEYNOTE MARK NUMBER	
DPC1	DRILLED PIER CAP NUMBER			
EP1	EMBEDDED PLATE MARK NUMBER	7	NEW BUILDING GRID LINE	
F1	SPREAD FOOTING MARK NUMBER	·		
GB1	GRADE BEAM MARK NUMBER	?	EXISTING BUILDING GRID LINE	
H1	HEADER MARK NUMBER			
НСР	HOLLOW CORE PLANK	•	ELEVATION MARKER	
HD1	HOLD DOWN MARK NUMBER		SHADED AREA INDICATES CUT THROUGH	
J10	JOIST MARK NUMBER		EXISTING CONSTRUCTION	
L1	LINTEL MARK NUMBER		SHADED AREA INDICATES PROJECTION OF EXISTING CONSTRUCTION	
LC1	LIGHT GAGE COLUMN MARK NUMBER			
MC1	MASONRY COLUMN MARK NUMBER	W1 -	WALL MARK NUMBER OR WALL TYPE	
MF1	MOMENT FRAME MARK NUMBER	otin = = = = = = = = = = = = = = = = = = =	APPROXIMATE LOCATION OF UTILITY PIPE	
MW1	MASONRY WALL NUMBER	V====	PENETRATION THROUGH FOUNDATION WALL	
P1	PIER MARK NUMBER	FS	FOOTING STEP LOCATION	
PC1	PILE CAP MARK NUMBER	SB1	APPROXIMATE LOCATION OF SOIL BORING	
RD1	ROOF DECK MARK NUMBER	\bigcirc	COMPRESSION PILE	
S1	SLAB MARK NUMBER			
SC1	STEEL COLUMN MARK NUMBER	(Ī)	TENSION / COMPRESSION PILE	
SR1	STUD RAIL REINFORCING MARK NUMBER	\otimes	TEST PILE	
SW1	SHEAR WALL MARK NUMBER	_	CDAN DIDECTION OF ELEMENT	
T1	TRUSS MARK NUMBER		SPAN DIRECTION OF ELEMENT	
TR1	MILD STEEL TOP REINFORCING MARK NUMBER	\longleftrightarrow	EXTENT OF ELEMENT	
W1	WALL MARK NUMBER			
WC1	WOOD COLUMN MARK NUMBER	1		
WF1	WALL FOOTING MARK NUMBER		CONTINUOUS EXTENT OF ELEMENT	
WO1	WEB OPENING	# Sxxx	DETAIL CALLOUT	
		# Sxxx	ELEVATION CALLOUT	

SHEET LIST SHEET# SHEET NAME TYPICAL MASONRY SCHEDULES AND DETAILS TYPICAL FOUNDATION SCHEDULES AND DETAILS S001 LEGEND SHEET S002 GENERAL STRUCTURAL NOTES S003 GENERAL STRUCTURAL NOTES S201 FOUNDATION PLAN ROOF FRAMING PLANS TYPICAL SCHEDULES AND DETAILS

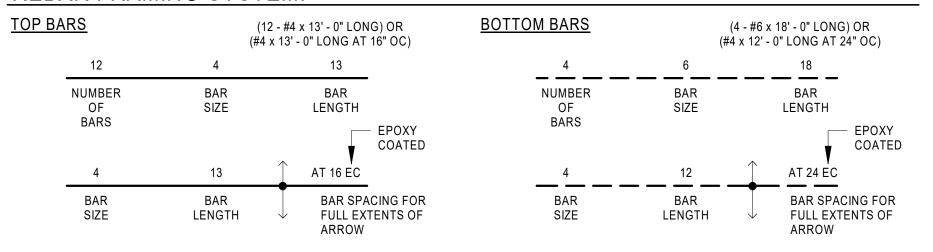
PLAN SYMBOLS LEGEND: FRAMING DETAILS FOUNDATION SYSTEM:

WALL FOOTING GRADE BEAM

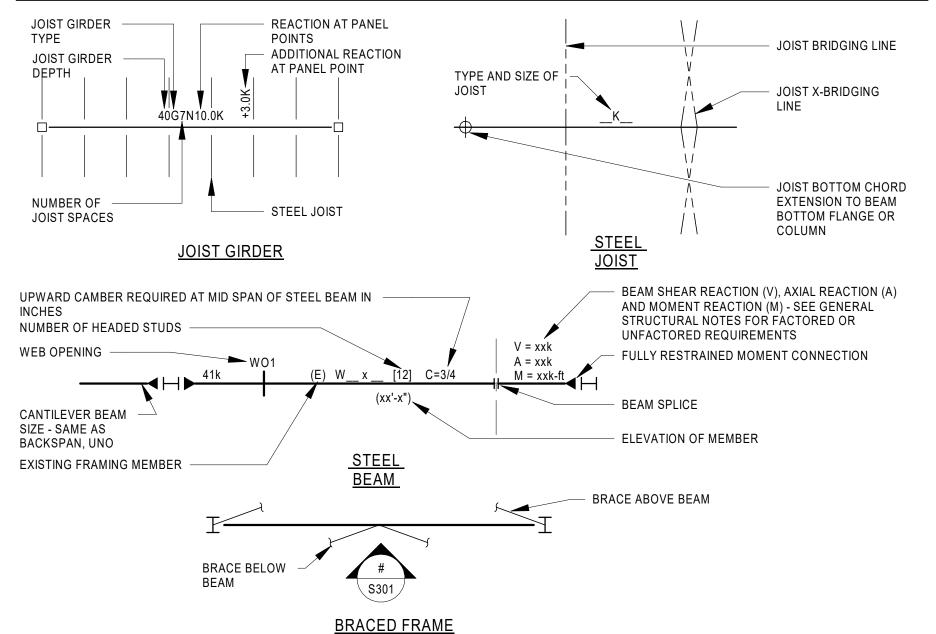


SPREAD FOOTING

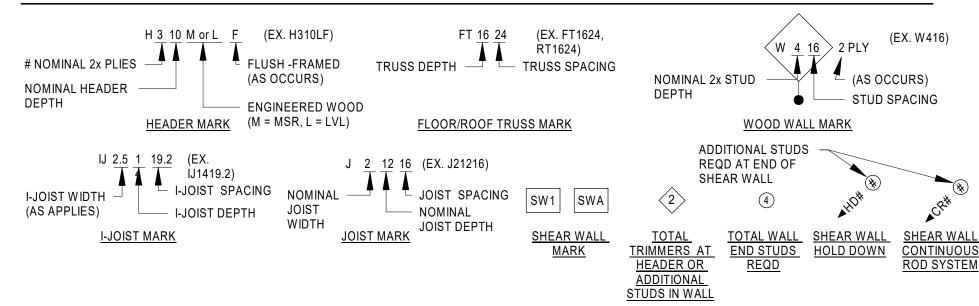
REBAR FRAMING SYSTEM:



STEEL FRAMING SYSTEM:



WOOD FRAMING SYSTEM:





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MECHANICAL & ELECTRICAL ENGINEER

VICTUS ENGINEERING 2327 Wycliff St Suite 230, St Paul, MN 55114 Willow Nichols, PE 415.314.7862

LAKE BYLLESBY PARK PAVILION + **BEACH BATH**

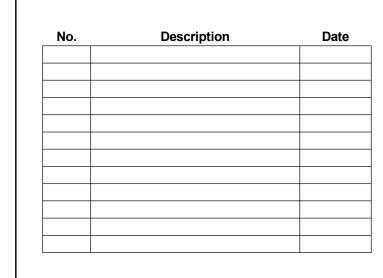
50% PROGRESS SET

NOT FOR CONSTRUCTION

9/21/2021

CLIENT **GOODHUE COUNTY**

5001 MN-19, Cannon Falls, MN 55009



SHEET NAME

LEGEND SHEET

SHEET NUMBER

These notes specify the requirements for the design represented in these documents. The construction and materials shall comply with all the pertinent codes and references, plans, and details, including (but not limited to) those shown in architectural, civil, mechanical and electrical drawings.

The Contractor shall verify all dimensions and existing conditions in the field that affect construction prior to commencing work on the affected element or shop drawing submittals. Resolve any discrepancies with the Architect prior to construction.

The contract structural drawings and specifications represent the completed structure. The Contractor is responsible for bracing and shoring (without overstressing) all structural elements as necessary at any stage of construction until completion of the project. The Structural Engineer of Record is not responsible for the Contractor's means, methods, sequences or procedures of construction. Contractor shall recognize and consider effects of thermal movements of structural elements during construction

The Contractor is solely responsible for site safety including all temporary precautionary measures and safety programs. Site observation visits by the Structural Engineer of Record do not include review of the contractor's safety precautions.

Refer to architectural, mechanical and electrical drawings for locations, elevations, dimensions, and details of sleeves, inserts, openings, recesses, curbs, housekeeping pads, etc. that are not shown on the structural drawings and do not damage structural

Information shown in the structural drawings regarding existing conditions represents the current and general field conditions related to the new work, to the best of our knowledge. Report all discrepancies (unforeseen conditions) to the Architect for resolution prior to performing related new work.

Requests for information shall be submitted in writing and shall reference the part of the construction documents that is in

Special inspections required by the building code and these documents shall be provided in addition to inspections to be performed by the city in which the project is located.

Contractor shall read and understand their duties in the specification and under the building code for special inspections and coordinate as necessary the Owner's responsibilities.

The Special Inspectors shall be provided by the Owner and shall use current structural drawings incorporating all revisions and

Special inspection reports are to be submitted promptly and within 24 hours to the Structural Engineer of Record and Contractor from the time when inspections are performed.

The General Contractor shall provide timely notice (minimum 24 hours) to the Special Inspector and sufficient time for the Inspector to perform their inspection.

For a schedule of Special Structural Inspections required by the building code for this project, see the Special Inspection

STRUCTURAL TEST AND SPECIAL INSPECTION SCHEDULE.

		Continuous	Periodic	None
1.	STEEL CONSTRUCTION: Section 1705.2.1 and Table 1705.2.1 1.1 Fabricator Documentation - Note (1) 1.2 High Strength Bolting-Bearing Material 1.3 High-Strength Bolting-Slip-Critical and Material 1.4 Steel Material, Seismic - Section 1705.11.1 1.5 Welds: Full and Part Pen and Multi-Pass Fillet 1.6 Welds: Single Pass Fillet for All Sections 1.7 Frame Joint Detail Compliance	2		
2.	CONCRETE CONSTRUCTION: Section 1705.3 Table 1705. 2.1 Member Shape and Size Compliance in Formwork 2.2 Reinf Steel and PT Tendons Size, Quantity and Placemen 2.3 Weldability of Reinforcing and Welds 2.4 Anchors in Concrete 2.5 Use of Required Mix Design 2.6 Sample for Specimens and Tests 2.7 Placement of CIP Concrete and Shotcrete 2.8 Curing Compliance 2.9 Strength for Stressing PT Tendons 2.10 Prestressing Force Application 2.11 Grouting Bonded Tendons - Seismic 2.12 Strength for Formwork Removal 2.13 Erection of Precast Members	3		
	WOOD CONSTRUCTION: Section 1705.5 3.1 Fabricator, Prefab Trusses and Panels, Note 1 3.2 High Load Diaphragms - Table 2306.2 (2) SOILS: Section 1705.6 and Table 1705.6			
4.	SOILS: Section 1705.6 and Table 1705.6 4.1 Bearing Material, Capacity and Depth 4.2 Compacted Fill Compliance With Soils Report			
5.	PIER FOUNDATIONS: Section 1705.8 and Table 1705.8 5.1 Observation, Compliance and Records per Pier			•

1. When the fabricator does not meet the requirements of 1704.2.5.2 and where applicable the exception in 1705.2, Special Inspection in the Fabricator's shop is required.

2. Empirically designed masonry is excluded.

SHOP DRAWINGS:

requirements.

Submit shop drawing schedule with construction schedule that includes consideration for review period. See specification for

General contractor shall submit shop drawings in digital format for structural review. Digital drawings shall meet the following

All pages are native .pdf files, rotated, printed to scale with searchable text.

All transmittals shall be located as the first page of the submittal or as a separate file within one digital package. Contractor digital review comments and their digital stamp shall be attached. Our review will not occur until the contractor has reviewed, coordinated with other trades and provided shop stamp.

MBJ will mark-up the digital set in red and return a digital file via email, ftp site or other means.

DEFERRED SUBMITTALS: The following items shall be issued as deferred submittals per IBC:

Concrete Formwork and Shoring

Carbon Fiber Reinforced Polymer Concrete Strengthening Post-Tensioned Concrete Tendon Design

Precast Concrete Hollow Core Planks Precast Structural Concrete Precast Concrete Wall Panels

Architectural Precast Concrete Structural Steel Connections

Steel Joist and Joist Girders

Cold-Formed Steel Framing Metal Stairs, Handrails and Guardrails

Shop Fabricated Metal Balconies Cable Barrier Systems Metal Building Systems

Continuous Anchor Rod System Metal Plate Connected Wood Trusses

Wood I-Joist Glued-Laminated Wood Construction

Curtain Wall Framing

Skylight Systems Fall Protection Systems Helical Piers

All engineering design provided by others and submitted for review shall bear the certification stamp and signature of a qualified Professional Engineer who is licensed in the state where the project is located. Under no circumstances will MBJ review shop drawings that are considered to be scanned/copied construction document submittals. The Detailer shall produce and submit original documents for review

All items issued as deferred submittals shall be issued a minimum of 30 days prior to installation and shall not be installed until their design and submittal documents have been reviewed for general conformance to the drawings by the General Contractor, the Structural Engineer of Record and the Building Official. A copy of the deferred submittal shall be forwarded to the Building Official after the Structural Engineer of Record has reviewed the documents and prior to the erection of the deferred submittal

60,000 psi ASTM A615 Grade 60

DESIGN CODES AND STANDARDS:

2012 International Building Code, as amended and adopted by the state and city.

MATERIAL PROPERTIES: Reinforcing Steel (Fy):

Weldable

60,000 psi ASTM A706 Grade 60

Cast-in-Place Concrete (f'c) at 28 days, u.n.o.:

1,200 psi Maximum Controlled Low Strength Material (CLSM) 50 psi Minimum 4,000 psi Footings Concrete for Underpinnin 3,000 psi Concrete Fill for Pipe Piles 3,000 psi Pile Caps 4,000 psi **Grade Beams** 4,000 psi Drilled Piers 4,000 psi Micropiles 4,000 psi **Precast Prestressed Driven Piles** 5,000 psi Piers and Walls (non-shear) 4,000 psi Non P-T Structural Slabs, and Beams 5,000 psi

P-T Slab and Beams 6.000 psi 3,000 psi at 24 hours Shear Walls 4,000 psi Shear Walls, see schedule Varies 4,000 psi Varies

Columns Columns, see schedule Concrete placed over Metal Floor Deck 4,000 psi Slabs on Grade 4,000 psi 4,000 psi

Exterior Concrete 4,500 psi w/ air entrainment All Concrete not otherwise noted Structural Steel (Fy):

50,000 psi ASTM A992 Wide Flanges: 36,000 psi ASTM A36 Angles, Channels, Plates, and Bars Rectangular HSS 46,000 psi ASTM A500, Grade B Round HSS 42,000 psi ASTM A500, Grade B Steel Pipe 35,000 psi ASTM A53, Grade B

Structural Fasteners: Typical High-Strength Bolts 120,000 psi ASTM F3125 Grade A325 Twist-off Tension Control Bolts 120,000 psi ASTM F3125 Grade1852, 150,000 psi ASTM F3125 Grade A490 High-Strength Bolts where noted

Carbon Steel, Threaded Rods 36,000 psi ASTM A36 125,000 psi ASTM A193 Threaded Rods Grade B7 where noted 85,000 psi ASTM F593 Stainless Steel, Threaded Rods 36,000 psi ASTM F1554 Anchor Rods, Grade 36 U.N.O. Anchor Rods, Grade 55 where noted 55.000 psi ASTM F1554 Anchor Rods Grade 105 where noted 105,000 psi ASTM F1554 Direct Tension Indicator Washers where noted ASTM F959

SAWN LUMBER:

Hem Fir (HF) No. 2 or better: Fb 850 psi Fc 1300 psi parallel to grain (Joists and Headers): Fv 150 psi E 1,300,000 psi

STRUCTURAL COMPOSITE LUMBER: Hem Fir (HF) No. 2 or better:

Fb 850 psi Fc 1300 psi parallel to grain (Joists and Headers): Fv 150 psi E 1,300,000 psi

Fb 900 psi Doug Fir (DF) No. 2 or better: (Joists, Ledgers and Headers): Fv 180 psi E 1,600,000 psi Spruce-Pine-Fir (SPF) No. 2 or better: Fb 875 psi

(Studs and Built-up Posts) Fc 1150 psi parallel to grain Fc 425 psi perpendicular to grain E 1,400,000 psi

Doug Fir (DF) #2 or better: Fb 900 psi (Studs and Built-up Posts) Fc 1350 psi parallel to grain Fc 625 psi perpendicular to grain E 1,600,000 psi

Southern Yellow Pine (SYP) No. 2 or better: Fb 1500 psi (Preservative Treated Wood) Fv 175 psi Fc 1600 psi parallel to grain Fc 565 psi perpendicular to grain

E 1,600,000 psi Southern Yellow Pine (SYP): Fb 2400 psi (Machine Stress Rated (MSR)): Fv 190 psi Fc 1975 psi parallel to grain

Douglas Fir-Larch (DFL) No. 1 or better: (Heavy Timber, full sawn)

(Beams and columns wider than 5")

Fb 1200 psi Fv 170 psi Fc 1000 psi parallel to grain Fc 625psi perpendicular to grain Ft 825 psi E 1,600,000 psi

Fc 805 psi perpendicular to grain

Cedar No. 2 grade: (Wood Decks and Railings)

Fb 1050 psi parallel to grain Fv 75 psi perpendicular to grain E 1,000,000 psi

STRUCTURAL COMPOSITE LUMBER: Laminated Veneer Lumber (LVL): (Beams and Headers) (1 3/4" x Depth)

Fb 2900 psi Fv 285 psi Fc 750 psi perpendicular to grain E 2,000,000 psi

Fce 550 psi perpendicular to grain

Parallel Strand Lumber (PSL): Fb 2400 psi tabulated (Columns and Posts) Fc 2500 psi parallel to grain E 1,800,000 psi

Fve 270 psi

E 550,000 psi

Laminated Strand Lumber (LSL): Fb 1700 psi (Rim Board) Fv 410 psi

Fc 750 psi perpendicular to grain E 1,350,000 psi Oriented Strand Board (OSB): Fbe 600 psi

(APA Rated Rim Board)

Internal Pressure

Seismic Loads:

Site Class:

Primary Seismic Data:

Primary Seismic Data:

Seismic Design Category:

Basic Seismic-Force- Resisting System:

DESIGN LOADS LATERAL LOADS: Risk Category:

Wind Loads: Primary Frame Wind Data: V ult = 115 mph Basic Wind Speed: Exposure Category:

Coefficient (Gcpi): +0.18 or -0.18 Components and Cladding Wind Loads:

Exterior Component/Cladding:

Supplier to develop based on code criteria and indicate on shop drawings.

No design required

Mapped Spectral Response Accelerations: Ss: 0.171 S1: 0.057

Site Coefficients: Fa = 1.2 Fv = 1.6

Design Spectral Acceleration Parameters: Sds: 0.182 Sd1: 0.091 Importance Factor:

> Steel Systems Not Specifically Detailed For Seismic Resistance, Excluding Cantilever Column Systems

R = 3.0Response Modification Factor: $\Omega_{\rm O}$ = 3.0 Overstrength Factor: Seismic Response Coefficient: Cs = 0.061V = 0.061(W)Ultimate Design Base Shear:

Analysis Procedure: Equivalent Lateral Force Procedure

(User Note: Edit for appropriate lateral load resisting system type for project. Content below is just an example)

Framing members indicated as drag struts.

LATERAL LOAD RESISTING SYSTEM:

Steel frame is a "non-self-supporting" steel frame requiring interaction of the steel framing, floor/roof diaphragms and shear walls/ braced frames/moment frames. Contractor shall provide temporary bracing as necessary to provide

support of framing until all attachments are complete, including structural steel, structural steel to diaphragm/shear walls, and

The lateral-load-resisting system and diaphragm elements that provide for lateral strength and stability in the completed structure include the following: Floor and roof deck and attachments including concrete topping on steel deck. Fully connected moment frames, brace frames, masonry shear walls, or concrete shear walls

GRAVITY LOADS:

<u>Dead Load:</u> Floor: 50 psf Ground Snow Load, Pg: 35 psf Flat-Roof Snow Load, Pf 1.0 Snow Exposure Factor, Ce: 1.0 Snow Load Importance Factor, I: Thermal Factor, Ct: Unbalanced/Drift Snow Load: Refer to plan, U.N.O Roof Live Load: 20 psf Live Load, (reducible): Net Uplift for Joist Design: Mechanical Room Hanging Loads: Hanging Catwalks:

Framing members with axial loads indicated for connection design.

Mechanical and Electrical Equipment Units: Refer to drawings, for the units' locations, sizes, and weights. Future Mechanical and Electrical Units: This project is not designed for future units. Refer to drawings, for the future

-loor Live Loads: Floor Topping and Finish Allowance: 20 psf 100 psf Public Assembly:

The Contractor shall verify the location of all existing and new underground utilities and tanks prior to beginning excavation

units' locations, sizes, and weights

used for framing design.

For underground utilities adjacent to foundations and through foundations reference drawings for typical detail showing step footings below utilities as required to avoid undermining of structure by utilities.

CONVENTIONAL FOOTINGS Footings are designed for a maximum allowable soil bearing pressure of _____ pounds per square foot on undisturbed natural soil or compacted engineered fill. Soil bearing pressure is to be verified in the field during construction by a qualified

Refer to geotechnical report number

Geotechnical Engineer.

Footings are designed for an assumed soil bearing pressure of 1,500 pounds per square foot per Section 1806.2 Presumptive Load Bearing Values. It shall be the Contractor's/Owner's responsibility to retain a Geotechnical Engineer to verify that this value may be achieved at the bottom of footing elevation with out damaging, differential settlement. The quality of the bedrock shall be explored by the Owner's Geotechnical Engineer for the presence of soil filled seams at

each column location. This shall be accomplished by drilling a 1 1/2" diameter test hole into the bedrock at each footing

location prior to the placing of concrete. The depth of test hole will depend of the quality of the exposed rock, but shall not be less than 6'-0" below the bottom of the footing. All topsoil, fill, organic, and/or other unsuitable bearing material shall be removed below the footings and/or within the building

area to the depths indicated in the geotechnical engineering report and extent of removal shall be field verified by the Geotechnical Engineer. All excavations shall be observed by a qualified Geotechnical Engineer to verify removal of all unsuitable material, and confirm the proper preparation of bearing conditions. Rock excavation for individual footings is not expected to exceed five foot depth,

U.N.O. No mass excavation is anticipated. Blasting is not permitted. For footings that do not bear on natural undisturbed soil, extend engineered fill laterally beyond bottom edge of footing per recommendations in the geotechnical repor

Foundation and retaining walls shall be back filled with free draining fill approved by the Geotechnical Engineer. Provide drainage board and perforated pipe as required by the contract documents and verify with the Architect and Civil Engineer.

Backfill equally on both sides of foundation walls to prevent overturning or lateral wall movement, or brace as necessary. For stepping of wall footings reference drawings for detail.

The detailing, fabrication and erection of all reinforcing shall be done in accordance with the latest edition of ACI-315, "Manual of Standard Practice for Detailing Reinforced Concrete Structures and ACI-318, "Building Code Requirements for Structural

All reinforcing bars are deformed and continuous, unless noted otherwise. Refer to drawings for reinforcing lap length

Provide suitable wire spacers, chairs, etc. for support of reinforcing steel in proper position while placing concrete. All bars shall be tied to prevent displacement while placing concrete. All chairs and slab bolsters shall be plastic or steel with plastic tips. When reinforcing steel is epoxy coated or p/t tendons are fully encapsulated, all chairs and slab bolsters shall be epoxy coated or plastic and all support bars shall be epoxy coated. Chairs are to be stable and resist tipping.

The fabricator shall submit a complete list of accessories and placing details with the shop drawings.

No horizontal construction joints shall be placed in beams, joists, or slabs, unless shown on drawings.

Locate vertical construction joints in beams and slabs at central one third of span. Refer to drawings for details. Submit proposed construction joint locations to the Structural Engineer of Record for review prior to placement of concrete. Where new concrete is placed against existing concrete, the existing concrete shall be roughened to a minimum 1/4" amplitude.

Refer to drawings and ACI 318 Chapter 6 for placement guidelines of embedded pipes, sleeves, and conduits. Conduits are not permitted in slabs 3 inches or less in thickness.

Aluminum conduit, aluminum sleeves and aluminum embeds are not permitted in concrete.

All conduits shall be placed within the middle one-third of the slab thickness.

The maximum size of conduits shall be 1 1/4" diameter and shall be spaced no closer (to each other or reinforcing steel) than 4 inches unless prior approval is obtained from the structural engineer.

Sleeves and conduits shall pass perpendicularly through beams in the center third of the beam's depth. Embedded boxes shall not be located on the bottom face of beams and shall meet clearance requirements for beam reinforcing tendons and

Embedded boxes, sleeves and conduits shall not be placed within a distance of 2'-6" from the face of any column and shall not be placed within 1'-6" of any anchor without prior approval from the structural engineer.

In areas of high conduit concentration where it is not possible to meet the above requirements, consult the structural engineer prior to placement.

Provide a 3/4 inch chamfer for all exposed concrete corners. See architectural drawings for details and additional

Formwork and all shoring for flatwork shall be left in place until the concrete reaches at least 75 percent of the 28-day compressive strength. Design of shoring and reshoring is the responsibility of the Contractor and shall conform to ACI 347R Concrete compressive strength testing used to determine flatwork stripping times shall be performed using one of the

CIPPOC and standard cylinders cured and stored in the same conditions as

Maturity testing properly calibrated and conducted by an approved testing

Calcium chloride is not permitted as a concrete additive.

Concrete Cover on Reinforcing:

Topping Slab: 3/4" clear top Slab on Grade: upper third of slab Concrete covers are intended to meet the requirements of the IBC 2012 Section 722.2.3 prescriptive fire protection.

Footings: 3" clear bottom and sides 1 1/2" clear to ties or stirrups Columns: 1" clear top 3/4" clear bottom carbonate aggregate 1" clear bottom siliceous aggregate

CONCRETE SLABS ON GRADE: Slabs on grade shall be place in lane fashion.

The control or construction joints shall be placed as shown on the drawings. The joints shall align with the column grids and be spaced as noted below:

Exterior slabs 24 times slab thickness, maximum; Interior slabs 36 times slab thickness, maximum: Interior slabs 48 times slab thickness, maximum. with carpeting

The panels formed by control or construction joints shall not be "L" shaped, and a rectangular panel's aspect ratio shall not

Refer to the drawings for the typical slab on grade construction and saw cut control joint detail. Control and construction joints must be continuous and not offset.

Refer to drawings for detail of isolation diamonds or circles at columns.

Refer to drawings for reinforcing at re-entrant corners. Bend bars as necessary at obstructions.

Refer to the specification for the existence, type, and thickness of interior ground vapor retarder. Locate a vapor retarder directly beneath the slab on grade on top of a 6 inch compactable granular base. Refer to the specification for requirements for the compactable granular base.

Mechanically vibrate concrete around trench drains, floor ducts, construction joint dowels, loading docks, architectural features and other embedded items.

Refer to the specification for slab on grade pre-pour meeting.

Refer to the specification for acceptable methods of curing the concrete.

Refer to flooring manufacturer's specification for levelness, flatness and curing of concrete slabs on grade to receive special architectural floor finishes.

Where slab demolition occurs in slabs on grade, curbs and sidewalk areas, typically saw cut slabs for new work to the widths indicated on plan. Where such saw cuts would occur within 3 feet or less of an existing control or construction joint, remove slabs to the nearest existing control or construction joint. Dowel edges as indicated for typical slabs in other areas. Provide slab control joints in new slabs at locations to match existing slab control joints, and also a spacing to keep slab panel aspect ratios as square as possible, but at a spacing not to exceed 10'-0". Slab finishes shall match original existing finishes of surrounding slabs, subject to review of Architect.

POST-INSTALLED ANCHORS:

Post installed anchors to be installed in concrete base material shall have current ICC approval for use in both cracked and uncracked concrete in accordance with ACI 355.2, ACI 355.4, ICC ES AC193 and ICC ES AC308.

Post-installed anchors to be installed in masonry base material shall have a current ICC approval for use in uncracked, fully grouted concrete masonry unit construction in accordance with ICC-ES AC01, ICC-ES AC58 and ICC-ES AC106. Contact Engineer of Record for anchorage to hollow masonry or unreinforced clay masonry not covered by this section.

Post-installed anchors shall only be used where specified on the construction documents. The Contractor shall obtain approval from the Engineer of Record prior to installing post-installed anchors in place of missing or misplaced cast-in-place anchors. Submit a work plan including proposed products for approval prior to commencing corrective work.

Post-installed adhesive anchors shall not be used for fire rated components supporting gravity loads.

Verify that supporting substrate and environmental conditions are consistent with the manufacturer's installation instructions and the ICC-ES report. Post-installed anchors shall be installed in accordance with the manufacturer's installation instructions and the ICC-ES report,

including hole drilling and cleaning. The general contractor shall engage a testing company to locate existing reinforcing and other embedded items by nondestructive means (GPR, pacometer or other approved means) as necessary to accurately locate existing elements prior to

g operations. Do not cut or damage existing reinforcing or other embedded items unless explicitly approved by the

ICC-ES Report ESR-1545

ESR-3260

ESR-2582

(**) Indicated products listed are for anchorage to solid grouted or ungrouted concrete masonry units. Do not use anchors

Engineer of Record. Notify the EOR if there is a conflict between the anchor location and an embedded item. Pre-approved products for post-installed anchors are listed below. See specifications for additional pre-approved products and

substitution request requirements.

The following wedge anchor products are pre-approved: ICC-ES Report ESR-1917 Base Material Hilti Kwik Bolt TZ Concrete ESR-3037 Concrete Simpson Strong Bolt Dewalt Power Stud+ SD2 ESR-2502 Concrete

Hilti HSL-3

Dewalt Power Bolt + Concrete

Base Material

Concrete

Concrete

The following sleeve anchor products are pre-approved:

The following screw anchor roducts are pre-approved: Base Material Hilti HUS-EZ Concrete ESR-2713 Simpson DEWAL HD Concrete Dewalt Screw Bolt+ ESR-3889 Concrete

The following adhesive anchor products are pre-approved Base Material ICC-ES Report Hilti HIT HY 200 Concrete ESR-3187 Hilti HIT HY 100 ESR-3574 Concrete Concrete Hilti HIT RE 500-V3 ESR-3814 Simpson AT XP IAPMO ER-0263 Concrete

Dewalt AC100+ Gold

The following power-actuated fastener products are pre-approved: Base Material ICC-ES Report Steel/Concrete/Masonry/Wood Hilti Low Velocity ESR-1663 Steel/Concrete/Masonry/Wood Hilti X-U ESR-2269 Steel/Concrete/Masonry/Wood Simpson Powder-Actuated ESR-2138 Steel/Concrete/Masonry/Wood Dewalt Power-Driven ESR-2024 Steel/Concrete/Masonry/Wood Dewalt Trak-It ESR-3275

in ungrouted cells unless shown explicitly directed by Engineer of Record.

(*) Indicates products listed are for anchorage to solid grouted concrete masonry units only.

ARCHITECT OF RECORD

LOCUS ARCHITECTURE 4453 Nicollet Ave. Minneapolis, MN 55419 Wynne Yelland

612.706.5600

STRUCTURAL ENGINEER

MEYER I BORGMAN I JOHNSON 510 Marquette Ave. S. Minneapolis, MN 55402 612.338.0713 612.337.5325 www.mbjeng.com

CIVIL ENGINEER

SRF CONSULTING 3701 Wayzata Boulevard Suite 100, Minneapolis, MN 55416 Ken Greishaber, PLA, ASLA 763.249.6709

MECHANICAL & ELECTRICAL ENGINEER

VICTUS ENGINEERING 2327 Wycliff St Suite 230, St Paul, MN 55114 Willow Nichols, PE 415.314.7862

LAKE BYLLESBY **PARK PAVILION + BEACH BATH**

50% PROGRESS SET

NOT FOR CONSTRUCTION

9/21/2021

CLIENT

GOODHUE COUNTY

5001 MN-19, Cannon Falls, MN 55009

Description

SHEET NAME

SHEET NUMBER

GENERAL STRUCTURAL NOTES

STRUCTURAL STEEL:

Structural steel shall be detailed, fabricated and erected in compliance with AISC Specification for the design, fabrication, erection of structural steel for building, and Code of Standard Practice, and OSHA steel erection standards.

All beams and girders shall be cambered at mid-span as indicated on the structural drawings. The cambers indicated shall be present in the beam in its erected position after completion of the end connections and shall be verified prior to placing concrete. Cambering tolerances shall be (-0", +1/2"). No center point cambering allowed.

Splicing structural members where not detailed on the drawings is prohibited without prior approval of the Structural Engineer of

 $Modification \ of \ structural \ steel \ members \ in \ the \ field \ is \ not \ allowed \ without \ written \ approval \ by \ the \ Structural \ Engineer \ of \ Record.$

All composite beams using the concrete slab as a compression flange are designed for unshored construction unless noted otherwise

Anchor rods shall be minimum 3/4" diameter or as detailed in drawings.

(Note: For complex, significant or unusual structural systems, consider providing written guidance in the note below. Otherwise delete.)

Per Section 7.10.1 of the Code of Standard Practice For Steel Buildings and Bridges. The lateral-load-resisting system and diaphragm elements that provide for lateral strength and stability in the completed structure.

STRUCTURAL STEEL CONNECTIONS:

All steel connections are as indicated on the drawings.

-or-

The following steel connections shall be designed by the Steel Fabricator for the criteria indicated on the drawings unless noted or detailed otherwise.

detailed otherwise.
All shear connections

All brace frame connections
All truss connections

All beam connections with axial loads indicated All moment connections

All miscellaneous connections where indicated as "By Connection Engineer"

Submit calculations certified by a Professional Engineer who is licensed in the state where the project is located.

Unless noted otherwise, design simple beam shear connections per the AISC Manual connection tables. Design connections for the reactions indicated on the plans or the minimum connection requirements indicated in the connection schedule. Reactions indicated on plan or within details supersede those indicated in the connection schedule.

Shear connections shall be designed to resist eccentricity within the connection considering the resultant at the following locations:

Beam to beam connections: at center of supporting beam
Beam to column flange: at face of column flange
Beam to column web; at face of column web

Beam to column web: at face of column web
Beam to HSS columns: at face of column

Beam to column moment connection: at centerline of column Beam to embed plate: at face of embed

Unless detailed otherwise, beam shop connections may be welded or bolted and field connections are to be bolted. Bolts shall be a minimum 3/4" diameter for connections specified or detailed in the drawings. The fabricator may submit an alternate connection with the calculations that is certified by a professional engineer who is licensed in the state where the project is located.

All re-entrant corners must be shaped notch free per AWS D1.1 to a minimum radius of 1" except corners in connection material and beam copes.

Provide stiffeners and doublers where shown. Member reinforcements shall be the minimum of the size as indicated or as required by engineering analysis of the connection.

For beam to spandrel beam connections provide full depth stiffeners and fill maximum bolt rows.

Welded connections shall be made in accordance with AWS D1.1 Structural Welding Code using E70XX electrodes unless noted otherwise. Weld sizes not shown or controlled by the required forces shall be AWS code minimum size. Welds shall be visually inspected for compliance with the AWS code visual inspection criteria. Welders shall be qualified in accordance with AWS D1.1 and shall be experienced in welding structural steel.

Full penetration welds shall be tested using NDT methods such as ultrasonic, magnetic particle or other methods referenced in the AWS code. Welds subject to NDT methods shall also have been found compliant with the AWS visual inspection criteria.

STEEL JOISTS AND JOIST GIRDERS:

Manufacturer shall be a current member of the Steel Joist Institute (SJI).

Detail, fabricate and erect steel joists, joist girders and bridging in accordance with SJI Specifications, AISC Specifications and Codes, and OSHA steel erection standards.

The Manufacturer shall submit certified structural calculations by a qualified Structural Engineer licensed in the state in which the project is located for all joists that support concentrated or varying uniform loads, or non-standard loads as indicated on the drawings. See plans and details for special joist loads.

Welded connections shall be made in accordance with AWS D1.1 using E70XX electrodes unless noted otherwise. Welders shall be qualified in accordance with AWS D1.1.

When uplift forces are indicated in the design loads section or on the drawings, the Joist Manufacturer shall consider them in the design of the joists and bridging. A single line of bottom chord bridging must be provided near the first bottom chord panel points at all uplift conditions.

Design roof joists for uplift due to wind as indicated on the drawings.

Design joists for mechanical unit loads shown on plan. The General Contractor verify and coordinate the size, weight and location of mechanical units with the mechanical contractor for use by the Joist Manufacturer.

In addition to the loads indicated on the drawings design joist to support a 250 add load pound concentrated dead load at any point on the top and bottom chords simultaneously.

In addition to the loads indicated on the drawings design joist to support a 250 pound bend-check load on the top chord and bottom chord.

Design joists for hanging loads including but not limited to rain water leaders, process piping, cable trays, etc. General Contractor to verify location and magnitude of all such loads prior to fabrication of joists and joist girders.

General Contractor to verify if special joist panel point alignment or bridging configuration is required to accommodate the location of sprinkler lines, duct work, etc. As necessary align all joist web members throughout a bay and align similarly for each bay.

Design joists for the load from the diagonal braces to the bottom flange of beams at and near columns due to beam stability requirements. See plans and details for special joist loads.

Design joists for the load from the diagonal braces to the exterior spandrel wall due to wind

Design joists for point load due to brick veneer from an exterior wall above. Reference drawings for detail.

Camber joist per the SJI specification or as noted on the plans and details.

Provide bottom chord extensions for ceiling support as required by the Architect.

When beams have joists bearing from one side only, bear joist on full beam flange.

Bridging shall conform to SJI specifications and codes. Provide diagonal bridging for all LH and DLH joist. Anchor all bridging to walls and beams parallel to joists and provide horizontal bridging in end space adjacent to the wall. Reference drawings for details.

All bridging, bridging anchors and building structure that resist the bridging loads, shall be completely installed before construction loads are placed on the joists.

Refer to drawings for joist bearing plates in masonry or concrete.

Items to be suspended from the roof structure (other than lightweight ceiling grids) shall be connected to top chord panel points only unless noted or detailed otherwise. Reference drawings for typical detail of reinforcing at concentrated loads.

Joist reinforcement is required where concentrated loads are not applied to a panel point. Reference the drawings for the detail.

Joist Supported Cranes:

Design joists with crane loads for CMAA service class 'C'. Cranes are to be mounted and braced to bottom chord panel points.

Joist Deflection Criteria:

 $\begin{array}{lll} \text{Snow} + \text{Crane Load} & \leq \text{L}/450 \\ \text{Crane Load} & \leq \text{L}/1920 \\ \text{Snow Load} & \leq \text{L}/360 \\ \text{Total Load} & \leq \text{L}/240 \\ \end{array}$

WOOD FRAMING: DIMENSION LUMBER:

With Type 3A or 3B construction, all lumber in exterior walls shall be fire retardant treated wood.

All member sizes given in the drawings are nominal dimensions.

All lumber shall be kiln-dried, maximum moisture content 15% and grade marked according to the National Forest Products Association Regulations.

All joists (greater than 2x8) shall be supported laterally at the ends and at each support by solid blocking except where ends of joists are nailed to a header, band or rim joist or to an adjoining stud. Solid blocking shall be not less than 2" in thickness and the full depth of the joist.

Wood joists shall bear on the full width of supporting members, stud walls, beams, etc., unless otherwise noted.

Do not notch or cut joist unless approved by the Structural Engineer of Record.

All beams and joists not bearing on supporting members shall be framed with "Simpson Strong- Tie" joist hangers or equal. Use type "LUS" (or equal) for single 2x's and double 2x's and type "UTF" for framing to trusses where required. The joist hangers shall be nailed using special nails supplied by the hanger manufacturer. Proposed nail type substitutions shall conform to the ICC report for equal or greater load capacity and shall be submitted with the ICC report to the Structural Engineer of Record for written approval.

Wood headers or posts made up of 2 or more 2x's shall be spiked together per the nailing schedule.

Provide minimum 2 - 2x trim studs at bearing ends of all headers. Where posts are shown on drawings, headers shall bear fully on the posts.

Wood columns shall have solid vertical blocking through the floors to the support below.

All holes drilled through studs or posts in walls shall strictly conform to the detail in the drawings. Wood columns are not to be notched or drilled for utilities.

For walls 10'-0" and greater provide blocking at mid-height for construction stability.

All walls shall have single bottom plate and double top plate.

Double top plate splices shall lap 4'-0" and be nailed with 16 - 0.131" x 3" nails equally spaced with 1 1/2" end distance, unless noted otherwise on plan.

Unless otherwise noted, bottom plates of all exterior stud walls and interior bearing walls shall be anchored to new concrete with 1/2" diameter anchor bolts, at 4'-0" oc, or with equivalent anchors, as approved by the structural engineer.

All exterior lumber and all lumber in contact with concrete or masonry, or exposed to the exterior shall be treated Southern Yellow Pine. Each sill plate shall have a minimum of 2 anchor rods with an anchor rod located within 12" of each end.

All connectors in contact with treated lumber shall have corrosion protection.

For nailing/fastener schedule refer to the drawings.

STRUCTURAL COMPOSITE LUMBER:

Structural composite lumber shall be provided with member strengths as specified in the general structural notes.

All members shall be stamped with the Manufacturer's name and/or logo, name of inspection agency and the applicable evaluation report numbers.

Structural composite lumber such as laminated veneer lumber (LVL), parallel strand lumber (PSL), and laminated strand lumber (LSL), shall be the size and type shown on the drawings, manufactured by Truss-Joist or approved equal.

LVL, PSL, and LSL shall be manufactured under a process approved by the national research board.

All LVL shall be manufactured in accordance with NER-126 All PSL shall be manufactured in accordance with NER-292

All LSL shall be manufactured in accordance with NER-481

The manufacturing process shall use a waterproof adhesive meeting the requirements of ASTM D2559. All grain shall be parallel with the length of the member.

Structural composite lumber shall be installed with a moisture content of 12% or less. The Contractor shall make provisions during construction to prevent the moisture content of installed beams from exceeding 12%.

The Supplier is to furnish all connection materials required to fasten members to each other and to supports, exclusive of anchors embedded in masonry or concrete, and items to be field welded to structural steel.

All beams and joists not bearing on supporting members shall be framed with "Simpson Strong- Tie" joist hangers or equal. Use type "HU" (or equal) matching or exceeding the depth of the joist or beam. Install the hanger with the maximum number of fasteners specified by the manufacturer. The joist hangers shall be nailed using special nails supplied by the hanger manufacturer. Proposed nail type substitutions shall conform to the ICC report for equal or greater load capacity and shall be submitted with the ICC report to the Structural Engineer of Record for written approval.

Complete shop drawings including an erection plan, details of each member and each connection and design notes shall be submitted for review by the Architect and Structural Engineer of Record prior to fabrication.

Shop drawings and complete structural calculations shall be certified by a qualified Professional Engineer licensed in the state where the project occurs.

Comply with all recommendations by the Manufacturer and with approved shop drawings for the proper storage, handling,

Bear members full width of supporting member, stud walls, posts, trim studs, beams, etc.

protection, installation and temporary bracing requirements of these materials.

Notching of the bearing end or the top and bottom face is not permitted.

When installing lag screws, drill a lead hole.

WOOD FACTENEDS. NAU INC

sheathing as necessary to comply.

WOOD FASTENERS – NAILING:
Framing nail sizes specified on the drawings are based on the following specification U.N.O.:

<u>Size</u>	<u>Length</u>	<u>Diameter</u>
6d common	2"	0.113"
8d common	2 1/2"	0.131"
l0d common	3"	0.148"
2d common	3 1/4"	0.148"
16d common	3 1/2"	0.162"
<u>Size</u>	<u>Length</u>	Diameter
6d box	2"	0.099"
8d box	2 1/2"	0.113"
l0d box	3"	0.128"
l6d box	3 1/4"	0.135"
Size	Length	Diameter
6d cooler	1 7/8"	0.092"
8d cooler	2 3/8"	0.113"

All framing nails shall conform to ASTM F667, "Standard Specification for Power Driven Fasteners: Nails, Spikes and Staples" and NER-272 "Power Driven Staples and Nails for Use in All Types of Building Construction". Cooler nails shall comply with ASTM C514.

Refer to nailing schedule in the drawings for nail size and spacing at a specified condition.

Nails shall be identified by labels attached to their containers that show the Manufacturer's name and NES report number, nail shank diameter, and length. Submit this information prior to framing.

calculations showing structural equivalence to the Structural Engineer of Record for review and approval.

Nails fastening APA rated plywood sheathing shall be driven flush to the face of sheathing with no counter sinking permitted. Renail

If the Contractor proposes the use of alternate nails, they shall submit prior to construction nail specifications with certified

WOOD FASTENERS – STRUCTURAL WOOD SCREWS:

Structural wood screws as specified in the drawings refer to threaded steel screws that are self-drilling, dowel-type fasteners used primarily for wood-to-wood connections. These carbon steel screws are manufactured by a cold-formed process and are heat-treated with rolled threads. No pre-drilling is required.

Screws are specified in the drawings per nominal diameter and length. The diameter refers to a nominal measure of the threads, which is larger than the unthreaded shaft of the fastener. Length specified does not include fastener head. Actual dimensions and available lengths vary with Manufacturer.

Acceptable products are listed below. Contractor may submit alternate products for approval by Structural Engineer of Record.

The following minimum dimensions and material properties shall apply:

<u>Size specified</u> <u>Minimum Shank;</u>

Minimum Allowable Shear strength of fastener (lbs):

5/16" Diameter

3/8" Diameter

Minimum Bending Yield Strength:

5/16" Diam	0.189"	0.172"	GRK RSS Simpson SDWH FastenMasterTimberlok
3/8" Diam	0.219"	0.191"	GRK RSS Simpson SDWS FastenmasterLedgerlok
Minimum Allov 1/4" Diameter	wable Tension s	strength of fastener (lbs): 1112 lbs	
5/16" Diamete	r	1210 lbs	
3/8" Diameter		1505 lbs	

770 lbs

910 lbs

165,000 psi

<u>Root Diameters (in)</u>



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MECHANICAL & ELECTRICAL ENGINEER

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LAKE BYLLESBY PARK PAVILION + BEACH BATH

50% PROGRESS SET

NOT FOR CONSTRUCTION

9/21/2021

IIFNT

GOODHUE COUNTY

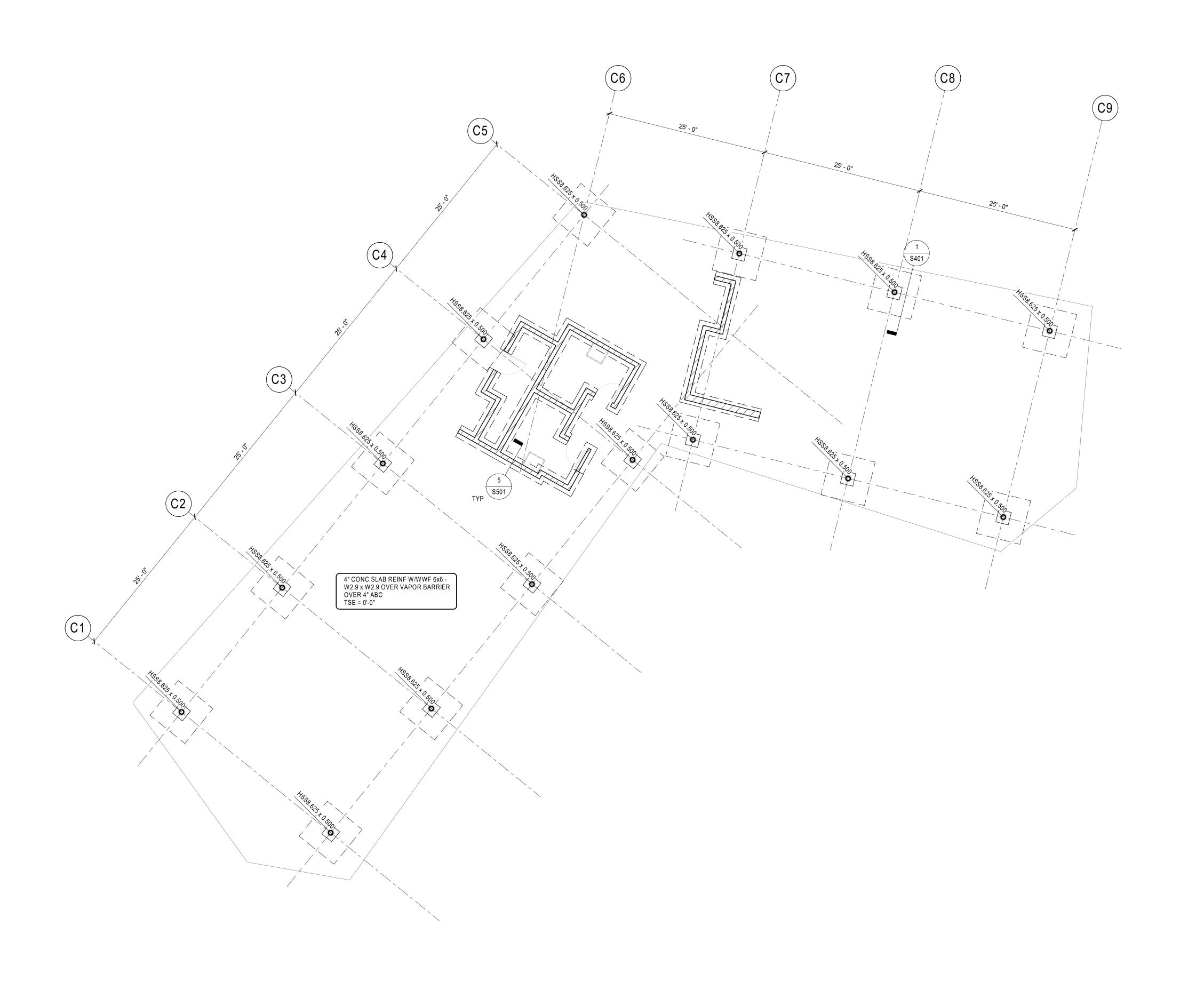
5001 MN-19, Cannon Falls, MN 55009

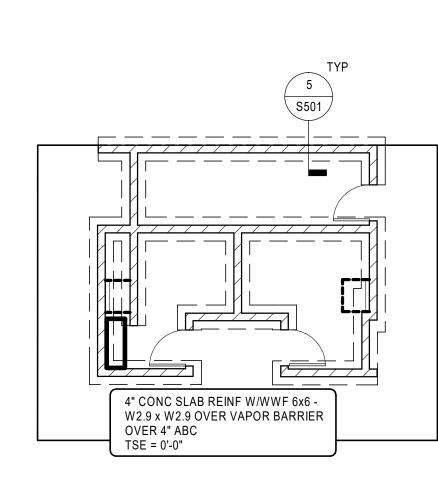
No.	Description	Date

SHEET NAME

GENERAL
STRUCTURAL
NOTES
SHEET NUMBER

S003





2 BEACH BATH FOUNDATION PLAN

1/8" = 1'-0"



ARCHITECT OF RECORD

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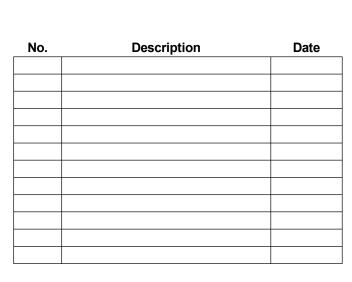
NOT FOR CONSTRUCTION

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GOODHUE COUNTY

5001 MN-19, Cannon Falls, MN 55009



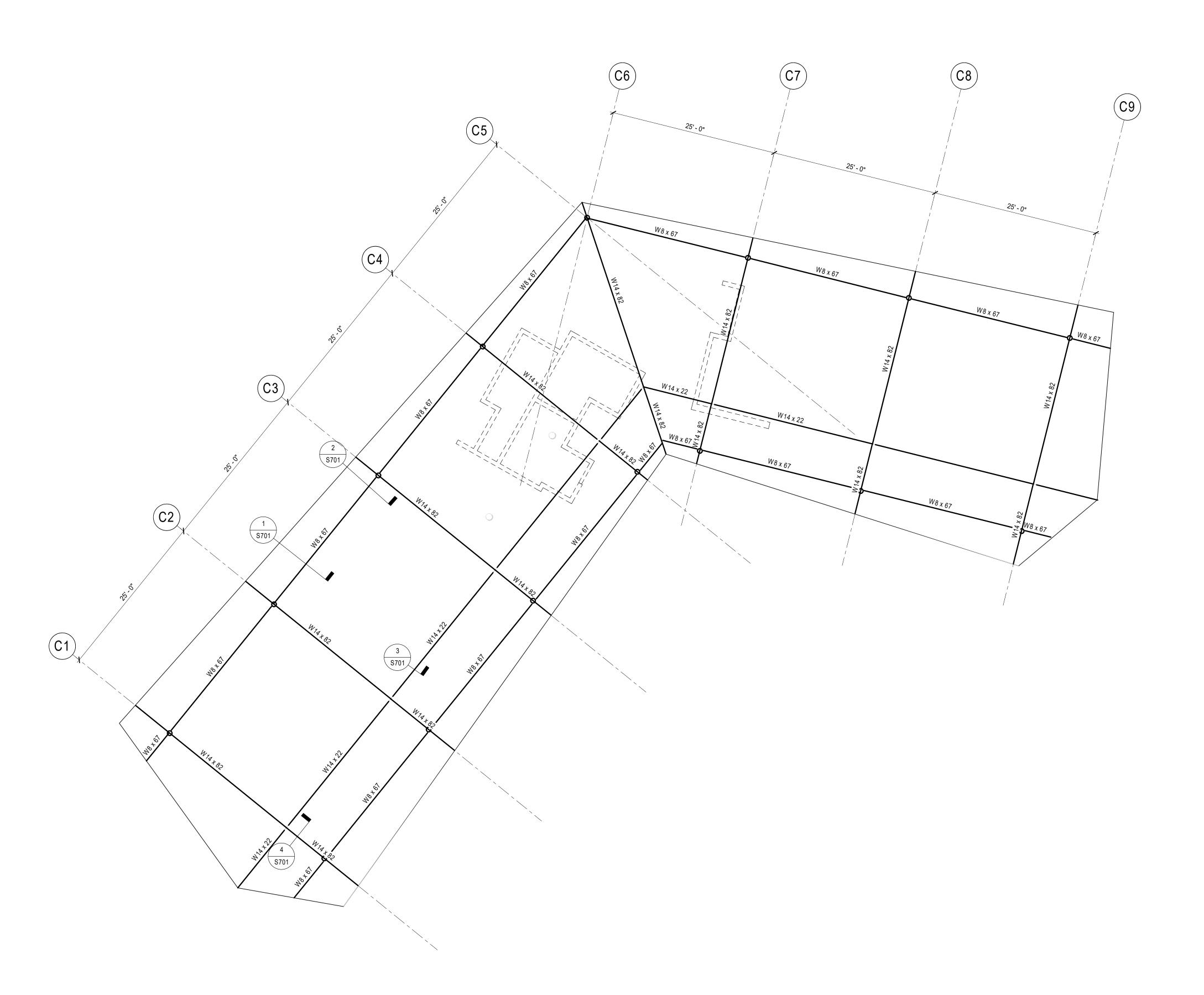
SHEET NAME

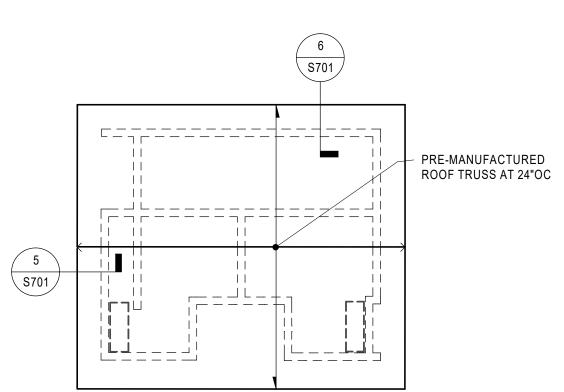
FOUNDATION PLAN

SHEET NUMBER

S201







BEACH BATH ROOF FRAMING PLAN

1/8" = 1'-0"



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LAKE BYLLESBY PARK PAVILION + BEACH BATH

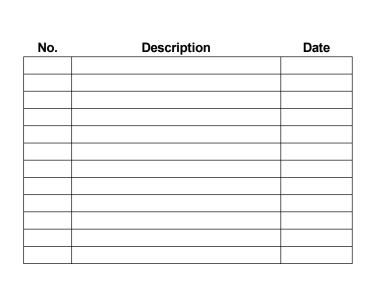
50% PROGRESS SET

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SHEET NAME

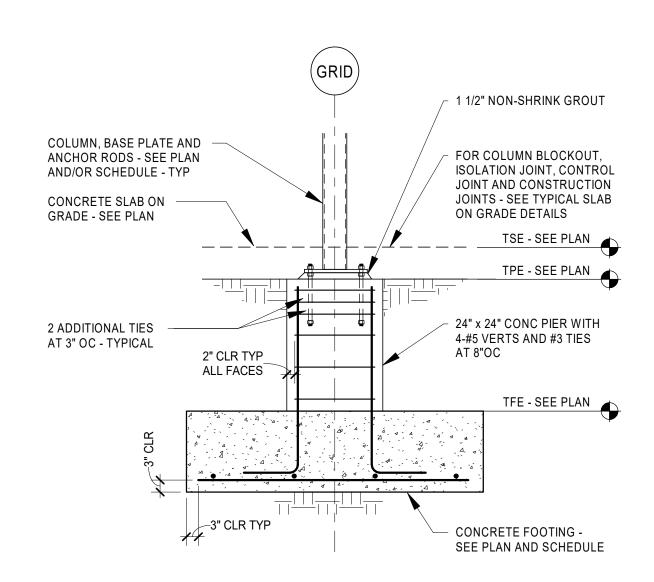
ROOF FRAMING PLANS

SHEET NUMBER

S202

NEW PAVILION ROOF FRAMING PLAN

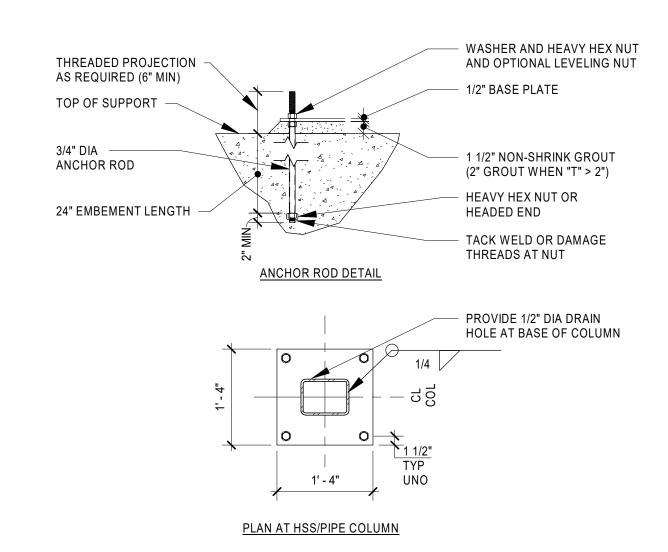
1/8" = 1'-0"



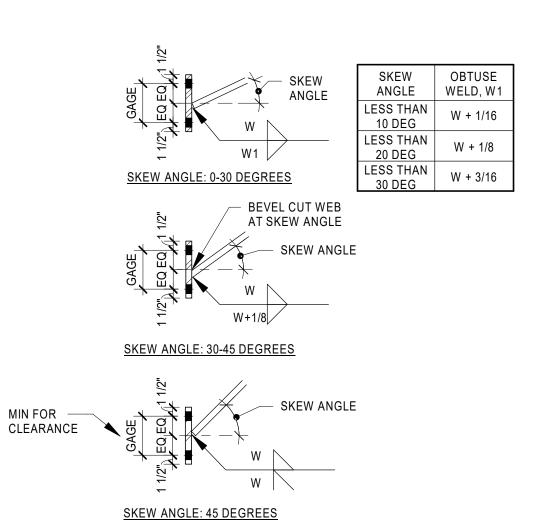
TYPICAL HSS/PIPE COLUMN, CONCRETE PIER AND

1 FOOTING DETAIL

NO SCALE



2 TYPICAL COLUMN BASE PLATE DETAILS
NO SCALE



NOTES:

1. SEE TYPICAL BOLTED / WELDED SHEAR END PLATE CONNECTION SCHEDULE AND DETAIL FOR ADDITIONAL INFORMATION.

2. "W" INDICATES NOMINAL WELD SIZE SHOWN ON BOLTED / WELDED END PLATE SCHEDULE.

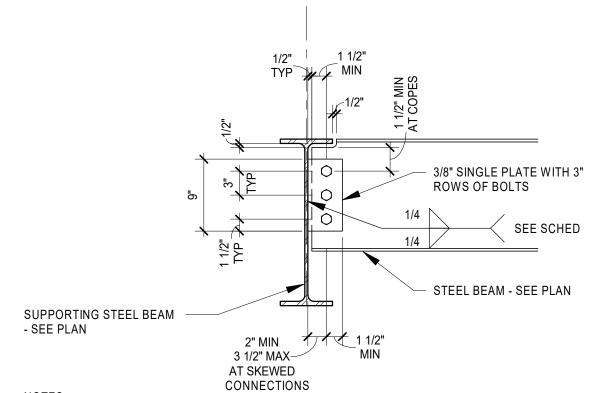
3. PROVIDE STANDARD HEX HEAD BOLTS WHERE FIT-UP DOES NOT ALLOW USE OF TENSION-

CONTROL BOLTS.

S401 NO SCALE

TYPICAL SKEWED BOLTED / WELDED SHEAR END

3 PLATE DETAIL



NOTES:

1. BOLTS SHALL BE 3/4" DIA ASTM A325 (OR F1852) UNLESS NOTED OTHERWISE.

2. ALL PLATES ARE ASTM A36 STEEL UNLESS NOTED OTHERWISE.

3. PROVIDE STANDARD OR SHORT-SLOT LOAD TRANSVERSE HOLES IN PLATE.

TYPICAL SINGLE PLATE CONNECTION DETAIL

NO SCALE

LOGUS ARCHITECTURE

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GOODHUE COUNTY

5001 MN-19, Cannon Falls, MN 55009

No.	Description	Date

SHEET NAME

TYPICAL SCHEDULES AND DETAILS

SHEET NUMBER

S401

		LINTEL SCHEDULE	
MARK	SIZE	DETAIL NUMBER	COMMENTS
L1	W? x ??	_S/	???

USE LINTEL BLOCKS FOR BOTTOM OF CMU LINTELS. $^{
m 2.}$ Bear CMU lintel 8" Min on CMU Jambs Each end of Opening - See Detail $_$

- 3. NO VERTICAL CONTROL JOINTS (VCJ) THROUGH LINTEL OR BEARING.
- 4. BEAR STEEL LINTEL 8" MIN ON CMU JAMB EACH END OF OPENING SEE DETAIL

5. CORE FILL CONTINUOUS ONE (1) COURSE ABOVE STEEL LINTEL W/2 - #5 CONT. 6. GROUT SOLID AROUND BEAM.

- 7. BOTTOM PLATES TO BE HELD BACK 1/2" FROM EDGE OF JAMB.
- 8. PROVIDE 1/2" DIA x 0'-5" HAS AT 16" OC.

1 LINTEL SCHEDULE

9. PROVIDE BEARING PLATE 5/8 x 7 x 0'-7 1/2" W/2 - 3/4" DIA x 0'-6" LONG HSA AND 3/4" GROUT UNDER PLATE EACH END OF STEEL LINTEL.

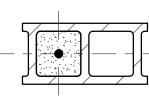
10. PROVIDE BEARING PLATE 3/4" x 15" x 1'-3 1/2" W/4 - 3/4" DIA x 0'-6" LONG HSA AND 3/4" GROUT UNDER PLATE EACH END OF STEEL LINTEL. 11. BEAR STEEL LINTEL 1'-2" MIN ON CMU JAMB EACH END OF OPENING - SEE DETAIL _____

CMU REINFORCING BAR LAP SPLICE SCHEDULE: f'm = 2000 PSI SIZE CASE 1 CASE 2 18"

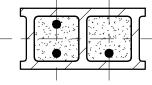
VERT REINF IN GROUTED

- NOTES:

 1. REINFORCING BAR LAP SPLICE SCHEDULE APPLIES TO UNCOATED, GRADE 60 REINFORCING BARS IN ASTM C 90 HOLLOW UNITS.
- CASE 1: ONE BAR PER CELL LOCATED IN THE CENTER OF THE CELL.
- CASE 2: ALL OTHER CONDITIONS, INCLUDING TWO BARS PER CELL AND SINGLE BARS NOT LOCATED IN THE CENTER OF THE CELL.
- 3. FOR EPOXY COATED BAR, MULTIPLY THE ABOVE LENGTHS BY 1.5. MAXIMUM SPACING OF BARS BEING LAPPED IS ONE FIFTH THE LAP SPLICE LENGTH, NOT TO EXCEED 8".
- REINFORCING BARS SHALL BE LAPPED IN THE SAME CMU CELL. 6. ALL BARS MUST BE PLACED IN FULLY GROUTED CELLS OR BOND BEAMS.

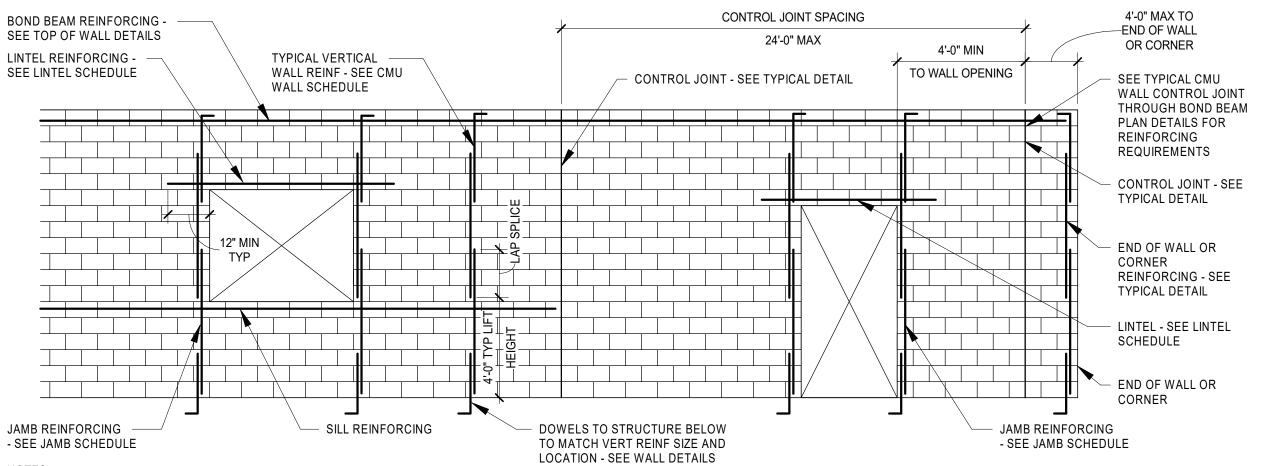


ONE BAR PER CELL LOCATED IN THE CENTER OF THE CELL



ALL OTHER CONDITIONS INCLUDING TWO BARS PER CELL AND SINGLE BARS NOT LOCATED IN THE CENTER OF THE CELL



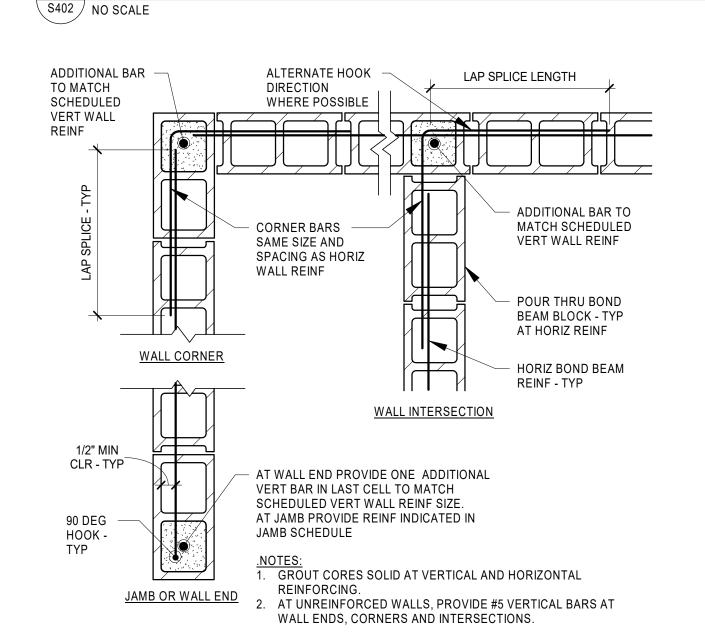


1. JAMB AND END OF WALL REINFORCING SHALL BE FULL HEIGHT OF WALL AND SHALL BE IN ADDITION TO TYPICAL VERTICAL WALL REINFORCING. PROVIDE CONTROL JOINTS TO MEET SPACING REQUIREMENTS SHOWN AND AT LOCATIONS WHERE CHANGES IN WALL HEIGHT OCCUR, WHERE CHANGES IN WALL THICKNESS OCCUR, AND WHERE

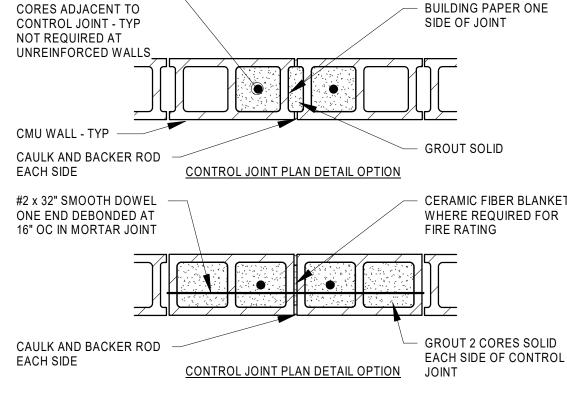
- MOVEMENT JOINTS IN THE FLOOR ABOVE AND/OR BELOW OCCUR. 3. SEE ARCHITECTURAL DRAWINGS FOR CONTROL JOINT LOCATIONS AT NON-LOAD BEARING WALLS NOT SHOWN ON STRUCTURAL DRAWINGS.
- 4. SEE ARCHITECTURAL DRAWINGS FOR WALL OPENINGS NOT SHOWN ON STRUCTURAL DRAWINGS. PROVIDE CLEANOUT AT BOTTOM COURSE FOR GROUT POURS GREATER THAN 5'-0" HIGH.
- 6. SILL REINFORCING SHALL BE LADDER JOINT REINFORCING IN THE FIRST OR SECOND MORTAR JOINT BELOW THE SILL OR A REINFORCED BOND BEAM. SILL REINFORCING SHALL EXTEND BETWEEN CONTROL
- 7. SEE NON-LOAD BEARING INTERIOR CMU WALL REINFORCING SCHEDULE FOR LINTEL AND JAMB REINFORCING REQUIRED AT NON-LOAD BEARING INTERIOR WALLS.

3 TYPICAL CMU WALL REINFORCING SCHEMATIC

S402 NO SCALE



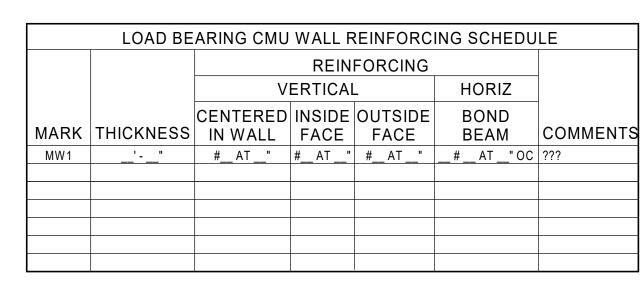
TYPICAL CMU WALL REINFORCING PLAN DETAILS S402 NO SCALE



- . SEE ARCHITECTURAL DRAWINGS, GENERAL STRUCTURAL NOTES, TYPICAL CMU WALL REINFORCING SCHEMATIC AND TYPICAL CMU WALL CONTROL JOINT THROUGH BOND BEAM DETAILS FOR CONTROL JOINT REQUIREMENTS AND LOCATIONS.
- . TERMINATE HORIZONTAL JOINT REINFORCEMENT AT CONTROL JOINTS. 3. DO NOT TERMINATE LINTEL REINFORCING AT CONTROL JOINTS.
- REINFORCING WALL WALL THICKNESS HEIGHT VERTICAL COMMENTS #4 AT 48" OC ≤ 10'-0" CERAMIC FIBER BLANKET ≤ 12'-0" #4 AT 24" OC ≤ 14'-0" #4 AT 48" OC ≤ 18'-0" #4 AT 24" OC ≤ 16'-0"" #4 AT 48" OC ≤ 19'-0" #4 AT 24" OC #5 AT 48" OC ≤ 19'-0" 12" ≤ 23'-0" #5 AT 24" OC I. WALL HEIGHT INDICATES MAXIMUM ALLOWABLE VERTICAL CLEAR DISTANCE BETWEEN POINTS

OF CONTINUOUS LATERAL WALL SUPPORT

OF CONTINUOUS EXTERNAL WINELESS FOR CITY	
2. VERTICAL REINFORCEMENT SHALL BE LOCATED IN THE CENTER OF THE	WALL.
3. SEE TYPICAL CMU WALL DETAILS FOR ADDITIONAL INFORMATION.	



NOTES:

1. SEE TYPICAL CMU WALL DETAILS FOR ADDITIONAL INFORMATION. 2. PROVIDE DOWELS AT FOUNDATION TO MATCH SIZE AND SPACING OF VERTICAL

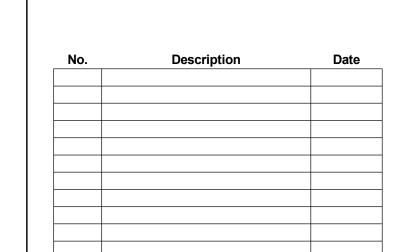
NON-LOAD BEARING EXTERIOR CMU WALL

NON-LOAD BEARING EXTERIOR CMU WALL REINFORCING SCHEDULE

S402 NO SCALE

LOAD BEARING CMU WALL REINFORCING

8 SCHEDULE S402 NO SCALE



GOODHUE COUNTY

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Ken Greishaber, PLA, ASLA

SHEET NAME

TYPICAL MASONRY SCHEDULES ANDEDETAILS

7 REINFORCING SCHEDULE 5 TYPICAL CMU WALL CONTROL JOINT PLAN DETAILS

CONCRETE PAD FOOTING SCHEDULE							
	SIZE		_	RCING - M BARS			
MARK	LENGTH	WIDTH	THICKNESS	LONG	TRANS	COMMENTS	

NOTES:

1. SEE TYPICAL FOOTING DETAILS FOR ADDITIONAL INFORMATION.

4. SEE GEOTECHNICAL REPORT FOR SUBGRADE REQUIREMENTS.

S501 NO SCALE

RIGID INSULATION AND

WATERPROOFING - SEE

PROVIDE FREE DRAINING

TO FOUNDATION WALL

CONCRETE WALL

AND CIVIL

S501 NO SCALE

GRANULAR FILL ADJACENT

FOOTING - SEE PLAN AND SCHEDULE

DRAIN PIPE - SEE ARCH —

2. LONGITUDINAL (LONG) BARS ARE PARALLEL TO FOOTING LENGTH DIMENSION AND

5. FOR RECTANGULAR FOOTINGS, LONGITUDINAL BARS ARE TO BE THE BOTTOM LAYER OF

CMU WALL - SEE PLAN

AND SCHEDULE

ISOLATION JOINT

CONCRETE SLAB ON

GRADE - SEE PLAN

LAP SPLICE - SEE

SCHEDULE

TSE - SEE PLAN

TFE - SEE PLAN

TRANSVERSE (TRANS) BARS ARE PARALLEL TO FOOTING WIDTH DIMENSION

CONCRETE PAD FOOTING SCHEDULE

3. CENTER FOOTING ON COLUMN, PIER OR WALL UNLESS NOTED OTHERWISE.

PIER				
MARK	SIZE	VERTICAL BARS	TIES	COMMENTS
1717 (1 (1 (OIZL	VEITHONE BITTO	TILO	OOMMENTO

1. SEE TYPICAL COLUMN, PIER AND FOOTING DETAIL FOR ADDITIONAL INFORMATION.

3. PROVIDE STANDARD 90 DEGREE HOOK AT VERTICAL (VERT) BARS TO FOOTING.

2. SEE TYPICAL CONCRETE PIER BAR AND TIE LAYOUT FOR REINFORCING CONFIGURATIONS.

4. CONTRACTORS OPTION PROVIDE HOOKED DOWELS LAP SPLICED TO VERTICAL REINFORCING.

C	CONCRETE REINFORCING BAR LAP SPLICE SCHEDULE							
	f'c = 3,0	000 PSI	f'c = 4,0	000 PSI	f'c = 5,0	000 PSI	f'c ≥ 6,0	000 PSI
BAR SIZE	CLASS A	CLASS B	CLASS A	CLASS B	CLASS A	CLASS B	CLASS A	CLASS B
#3	18"	22"	16"	20"	14"	18"	12"	16"
#4	22"	30"	20"	26"	18"	22"	16"	20"
#5	28"	36"	24"	32"	22"	28"	20"	26"
#6	34"	44"	30"	38"	26"	34"	24"	32"
#7	48"	64"	42"	54"	38"	50"	34"	44"
#8	56"	72"	48"	62"	44"	56"	40"	52"
#9	62"	82"	54"	70"	48"	64"	44"	58"
#10	70"	92"	62"	80"	54"	70"	50"	64"
#11	78"	102"	68"	88"	60"	78"	56"	72"

NOTES: 1. REINFORCING BAR LAP SPLICE SCHEDULE APPLIES TO UNCOATED, GRADE 60 REINFORCING BARS IN NORMAL WEIGHT CONCRETE.

2. PROVIDE CLASS A LAP UNLESS NOTED OTHERWISE 3. FOR EPOXY COATED BAR, MULTIPLY THE ABOVE LENGTHS BY 1.5. 4. FOR LIGHT WEIGHT CONCRETE, MULTIPLY THE ABOVE LENGTHS BY 1.3.

5. FOR TOP BARS IN BEAMS AND HORIZONTAL WALL REINFORCING, MULTIPLY THE ABOVE LENGTHS BY 1.3. 6. MAXIMUM SPACING OF BARS BEING LAPPED IS ONE FIFTH THE LAP SPLICE LENGTH, NOT TO EXCEED 6".

UTILITY SLEEVE

FOOTING - SEE

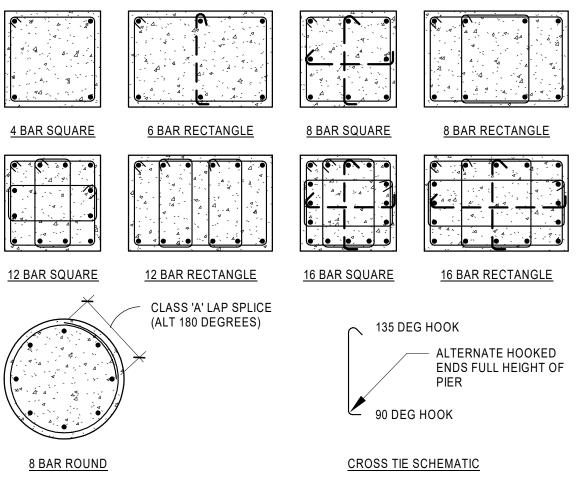
REINFORCING TO MATCH

WALL FOOTING

REINFORCING

TOP OF

PLAN



NOTES:

1. IF CLEAR SPACING BETWEEN VERTICAL BARS IS GREATER THAN 6", PROVIDE ADDITIONAL CROSS TIES, SHOWN DASHED.



MATCH SIZE AND LOCATION OF VERTICAL REINFORCING.

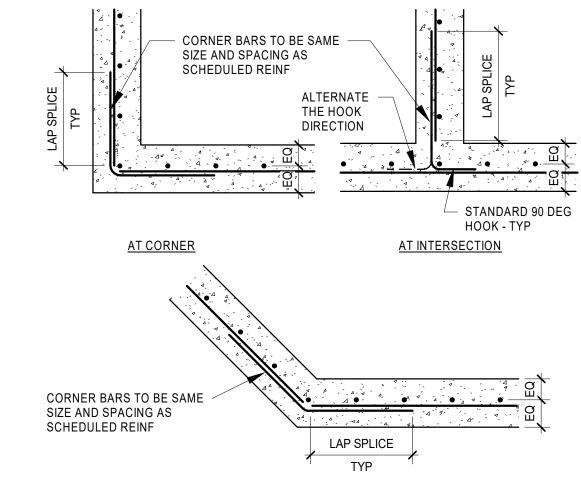


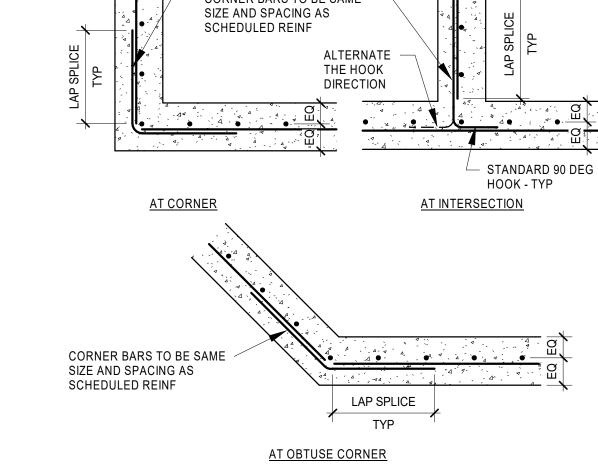
WALL FOOTING SEE PLAN -AND SCHEDULE

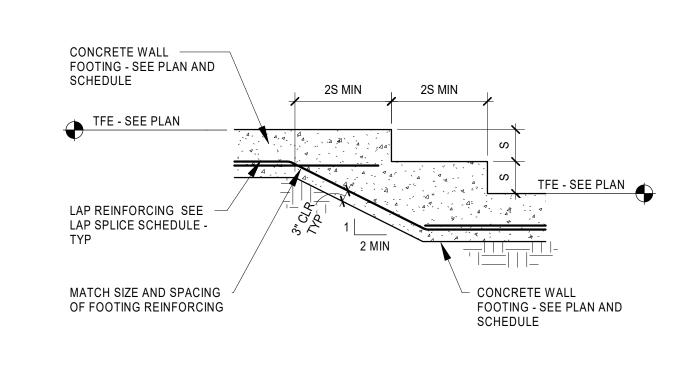
STEP AS NECESSARY AT

UNDERGROUND UTILITY









1. SEE PLAN FOR FOOTING STEP LOCATIONS. 2. 'S' SHALL NOT EXCEED 16" FOR CMU WALLS OR 24" FOR CAST-IN-PLACE OR PRECAST

6 TYPICAL WALL FOOTING STEP

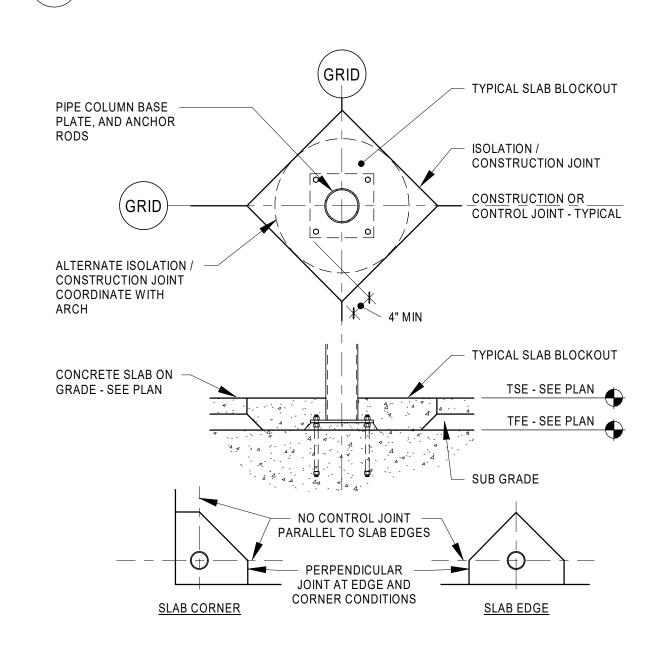
S501 NO SCALE

HORIZ REINF CONT

THROUGH JOINT, TYP

NOTES: 1. SEE TYPICAL WALL FOOTING STEP DETAIL FOR ADDITIONAL INFORMATION. 2. UTILITY SLEEVE DIAMETER TO BE 2" GREATER THAN UTILITY PIPE OUTSIDE DIAMETER INSULATE WITH 1" COMPRESSIBLE MATERIAL BETWEEN SLEEVE AND UTILITY. 3. AT FOOTINGS BELOW CMU WALLS, COORDINATE WALL FOOTING STEP LOCATIONS WITH CMU

TYPICAL CORNER BAR PLACING DETAIL S501 NO SCALE



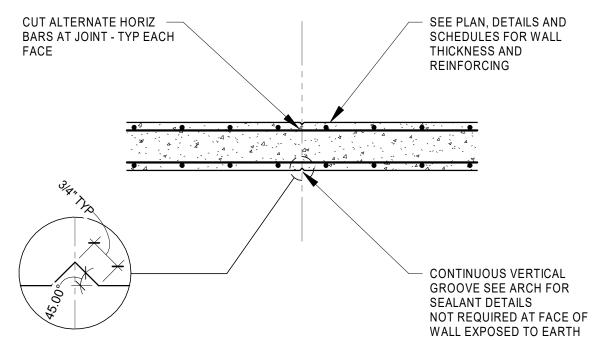
12 TYPICAL COLUMN ISOLATION JOINT S501 NO SCALE

5 TYPICAL CMU WALL AND FOOTING DETAIL S501 NO SCALE

NOTES

1. STRUCTURAL SLAB AT TOP OF WALL MUST BE IN PLACE WITH POSITIVE CONNECTION TO TOP

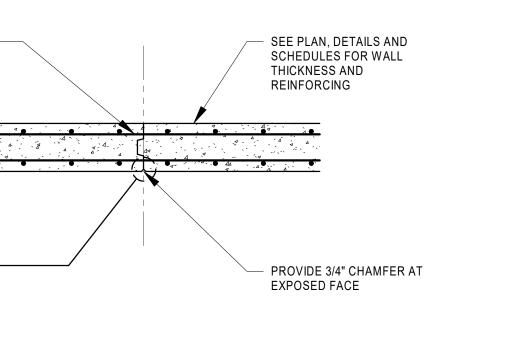
OF ALL AND CURED A MINIMUM OF 72 HOURS BEFORE BACKFILL IS PLACED ABOVE LEVEL OF



1. SUBMIT PROPOSED JOINT LOCATIONS FOR APPROVAL IF NOT SHOWN ON DRAWINGS. 2. MAXIMUM SPACING OF CONTROL JOINTS IS 20 FT ON CENTER OR 1 1/2 TIMES THE WALL HEIGHT ON CENTER, WHICHEVER IS LESS. 3. DO NOT USE THIS DETAIL FOR SHEAR WALLS OR WALLS THAT SPAN HORIZONTALLY.

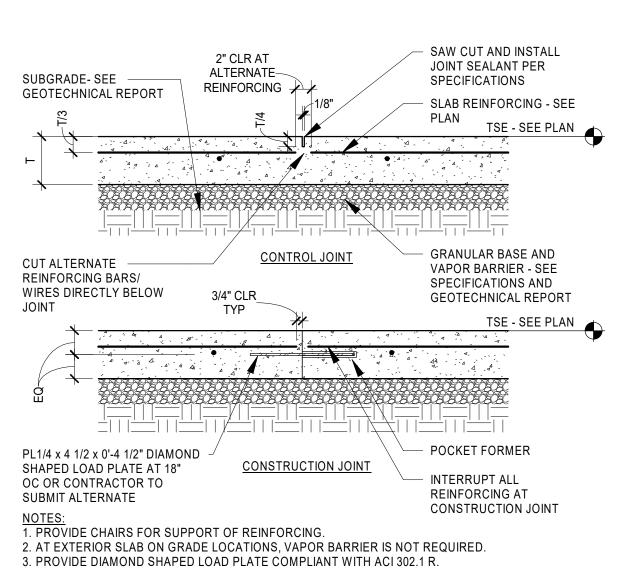
TYPICAL VERTICAL CONTROL JOINT FOR CONCRETE WALLS

TYPICAL VERTICAL CONSTRUCTION JOINTS FOR 10 CONCRETE WALLS S501 NO SCALE



NOTES:
1. SUBMIT PROPOSED JOINT LOCATIONS FOR APPROVAL. 2. JOINTS SHALL BE LOCATED NO CLOSER THAN 5'-0" FROM WALL CORNERS OR PILASTERS 3. JOINTS SHALL BE SPACED A MAXIMUM OF 60 FT OC. 4. WHERE WALL SPANS HORIZONTALLY, LOCATE JOINT WITHIN THE MIDDLE THIRD SPAN, UNO. 5. USE 2X4 KEYWAY (1 1/2" x 3 1/2") FOR WALLS UP TO 16" THICK. USE 2x6 KEYWAY (1 1/2" x 5 1/2") FOR WALLS >16" TO 24" THICK.

7 TYPICAL STEPPED WALL FOOTING AT UTILITIES S501 NO SCALE SAW CUT AND INSTALL 2" CLR AT JOINT SEALANT PER ALTERNATE-SUBGRADE- SEE



11 TYPICAL SLAB ON GRADE CONSTRUCTION S501 NO SCALE

CLIENT **GOODHUE COUNTY**

5001 MN-19, Cannon Falls, MN 55009

9/21/2021

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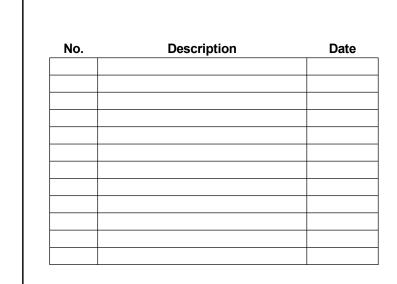
LAKE BYLLESBY

BEACH BATH

PARK PAVILION +

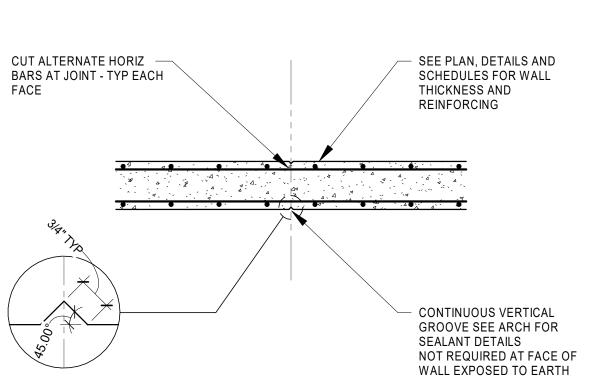
50% PROGRESS SET

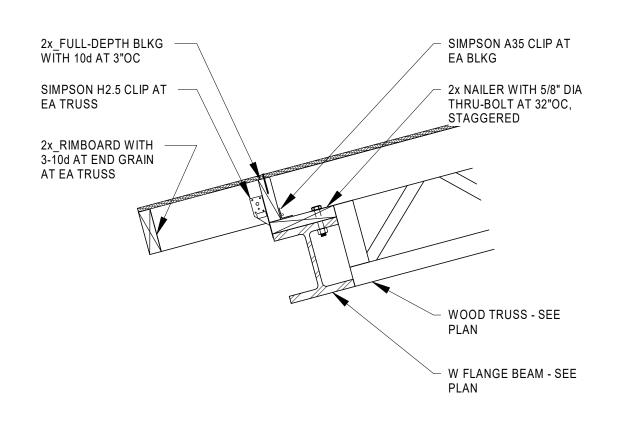
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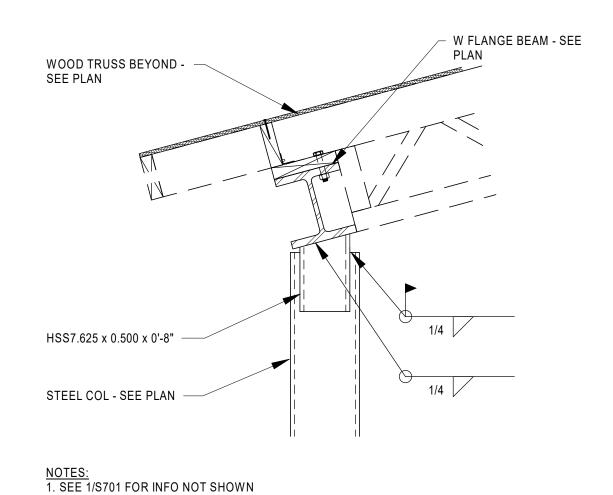


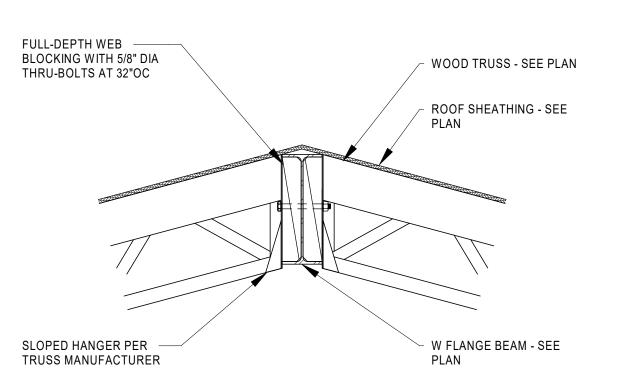
SHEET NAME

TYPICAL FOUNDATION SCHEDULES ANDEDETAILS



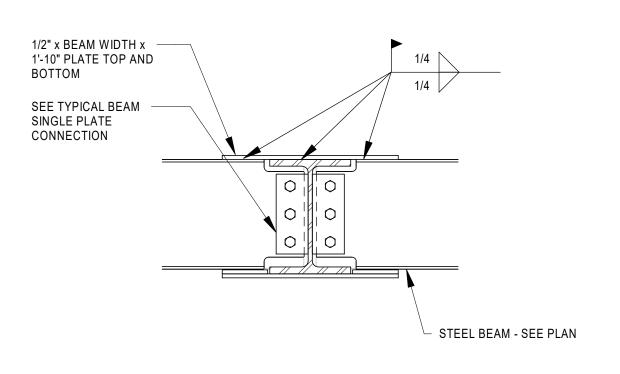






3 SECTION

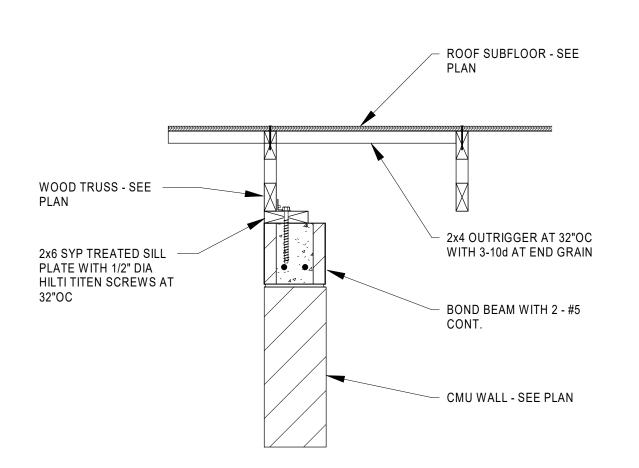
S701 1" = 1'-0"

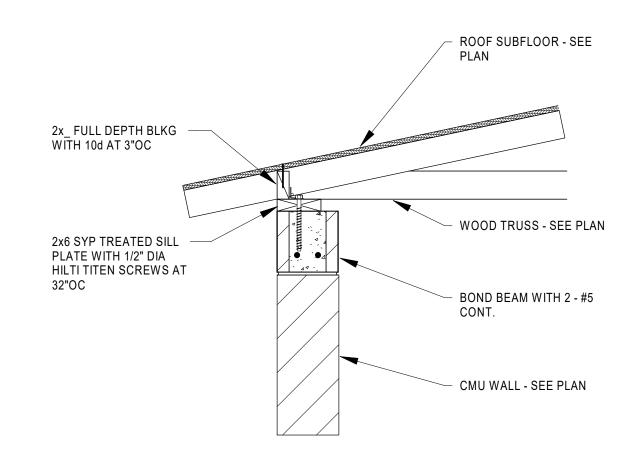


NOTES: 1. WOOD TRUSS NOT SHOWN FOR CLARITY.

4 SECTION 1" = 1'-0"











2 SECTION 8701 1" = 1'-0"

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LAKE BYLLESBY PARK PAVILION + BEACH BATH

50% PROGRESS SET

NOT FOR CONSTRUCTION

9/21/2021

GOODHUE COUNTY

5001 MN-19, Cannon Falls, MN 55009

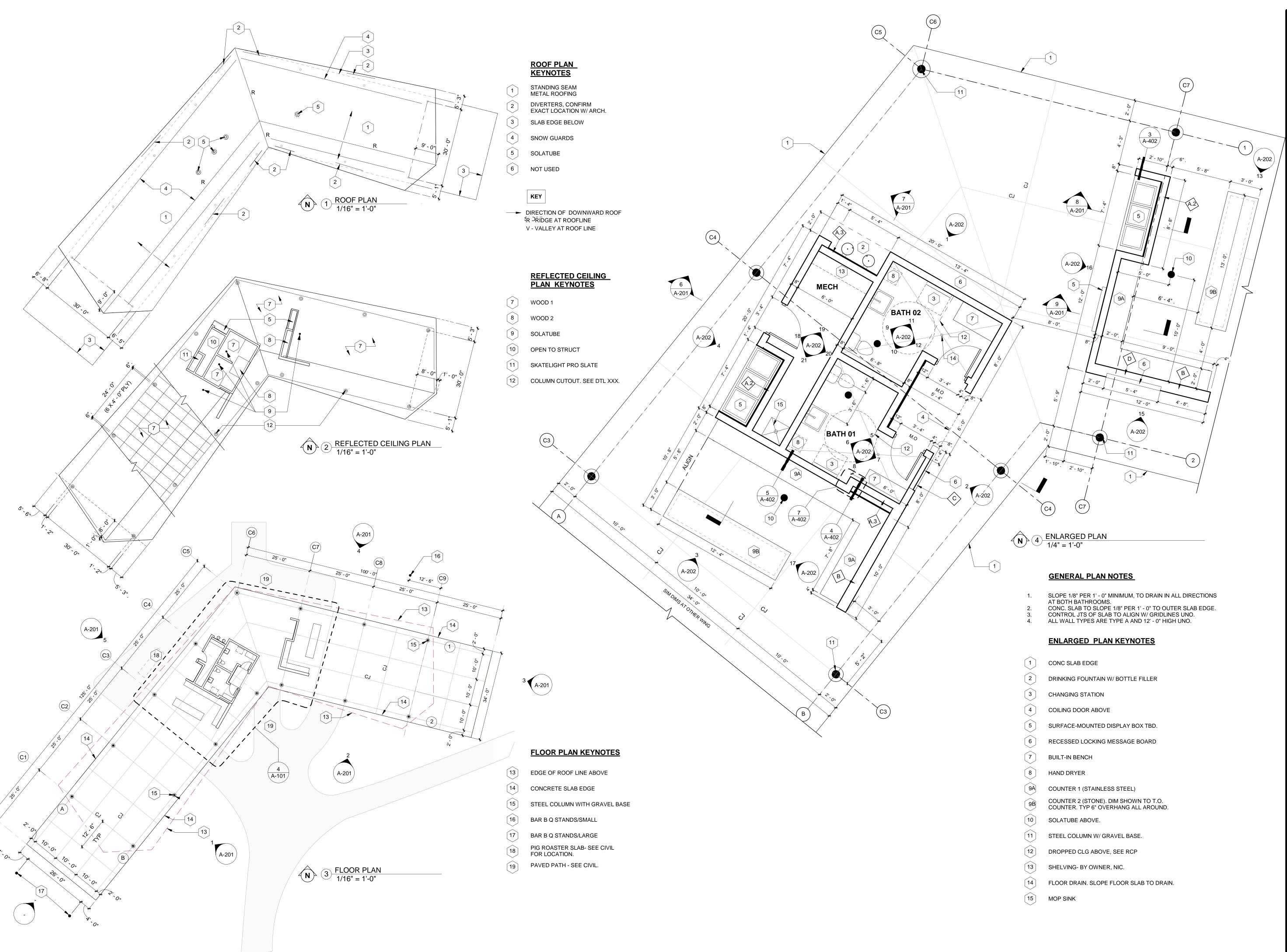
No.	Description	Date

SHEET NAME

FRAMING DETAILS

SHEET NUMBER

S701





LOCUS ARCHITECTURE 4453 Nicollet Ave, Minneapolis, MN 55419 Wynne Yelland 612.232.3609

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50% PROGRESS SET

9/21/2021

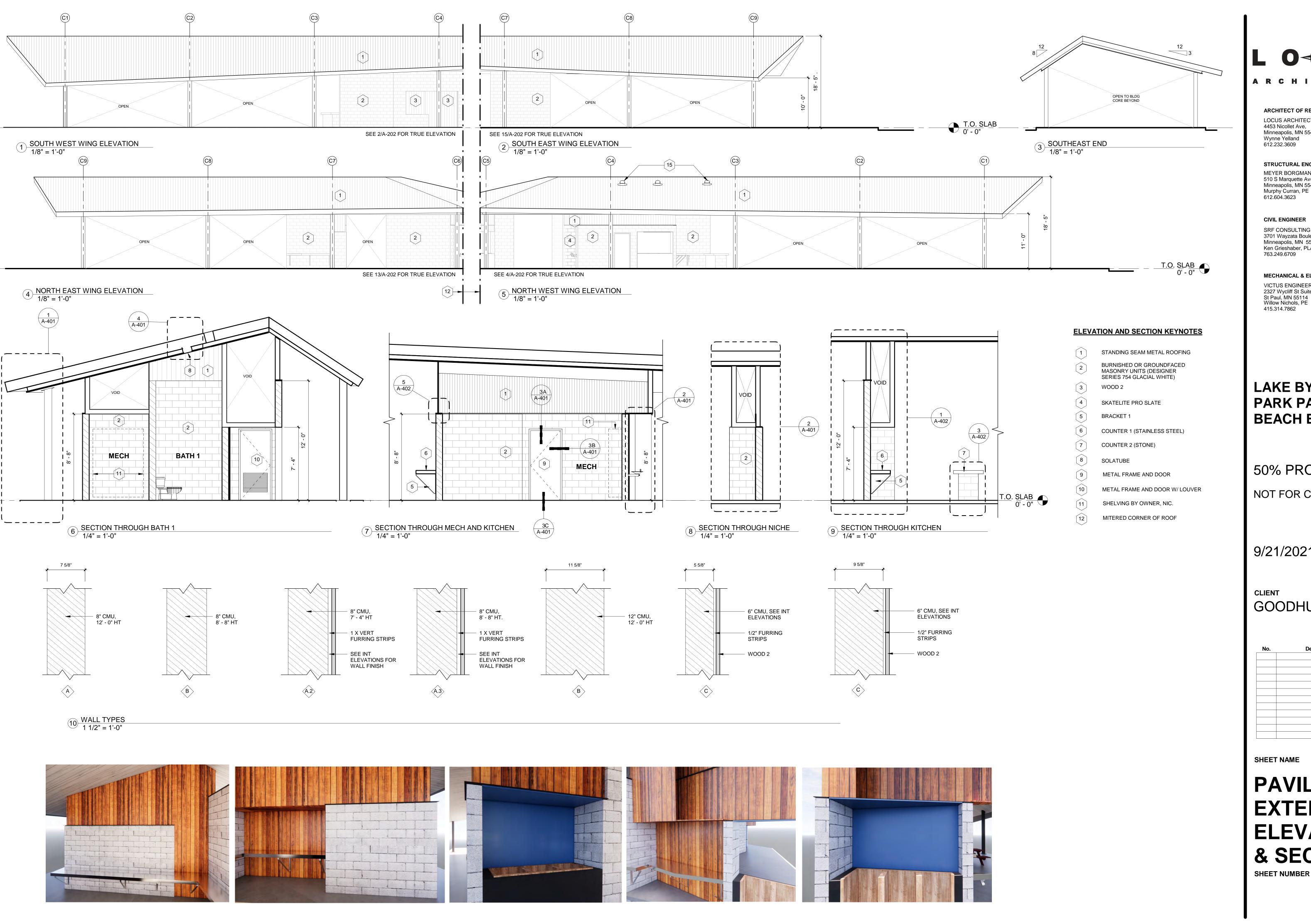
GOODHUE COUNTY

No.	Description	Date

SHEET NAME

PAVILION PLANS

SHEET NUMBER





ARCHITECT OF RECORD LOCUS ARCHITECTURE 4453 Nicollet Ave, Minneapolis, MN 55419

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LAKE BYLLESBY PARK PAVILION + **BEACH BATH**

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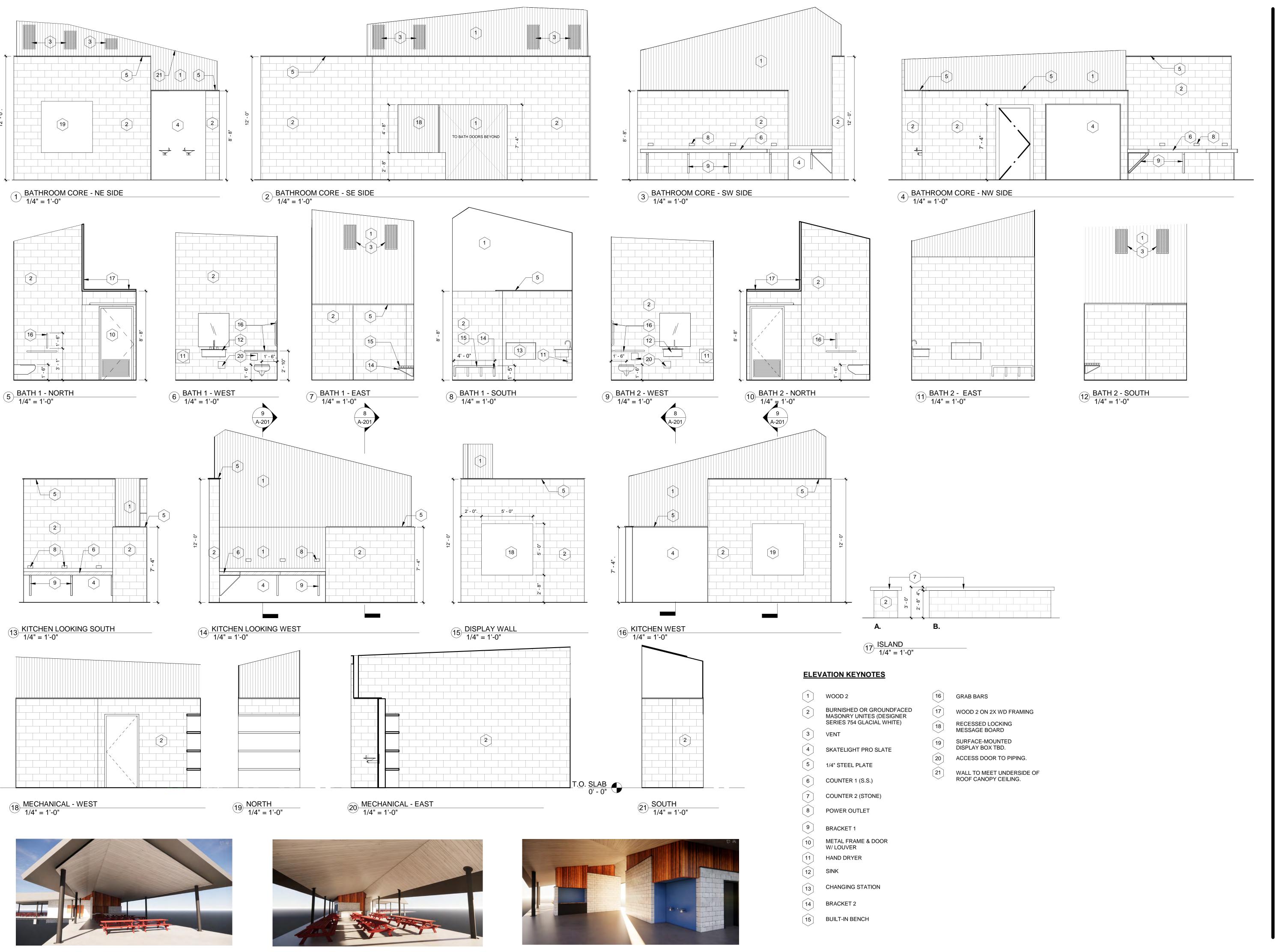
9/21/2021

CLIENT GOODHUE COUNTY

No.	Description	Date

SHEET NAME

PAVILION EXTERIOR ELEVATIONS & SECTIONS





ARCHITECT OF RECORD

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LAKE BYLLESBY PARK PAVILION + BEACH BATH

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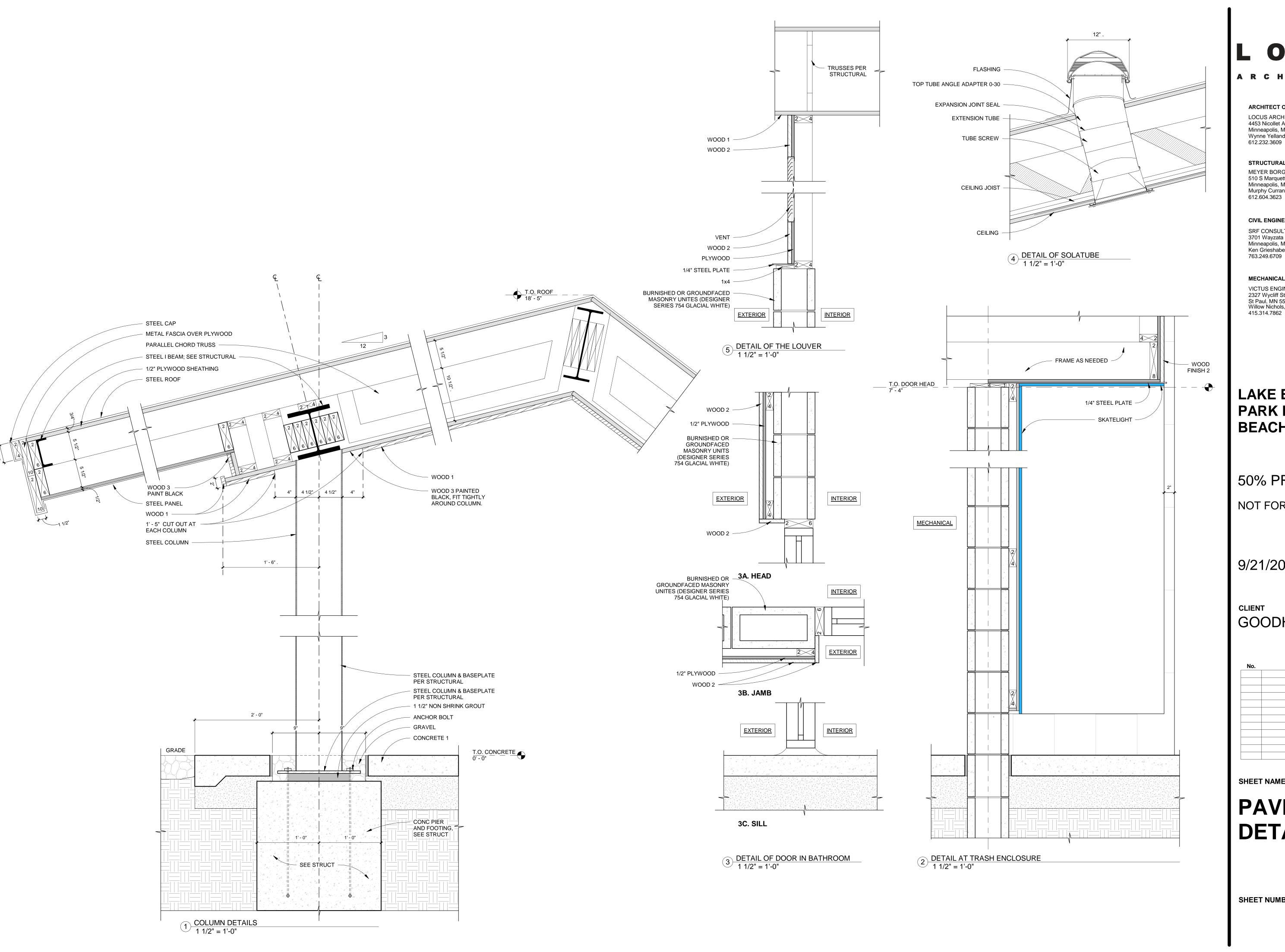
GOODHUE COUNTY

No.	Description	Date

SHEET NAME

PAVILION INTERIOR ELEVATIONS

SHEET NUMBER



LOCUS ARCHITECTURE 4453 Nicollet Ave, Minneapolis, MN 55419 Wynne Yelland 612.232.3609

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MECHANICAL & ELECTRICAL ENGINEER

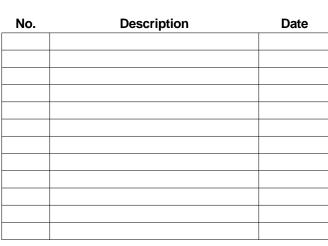
VICTUS ENGINEERING 2327 Wycliff St Suite 230, St Paul, MN 55114 Willow Nichols, PE 415.314.7862

LAKE BYLLESBY PARK PAVILION + **BEACH BATH**

50% PROGRESS SET NOT FOR CONSTRUCTION

9/21/2021

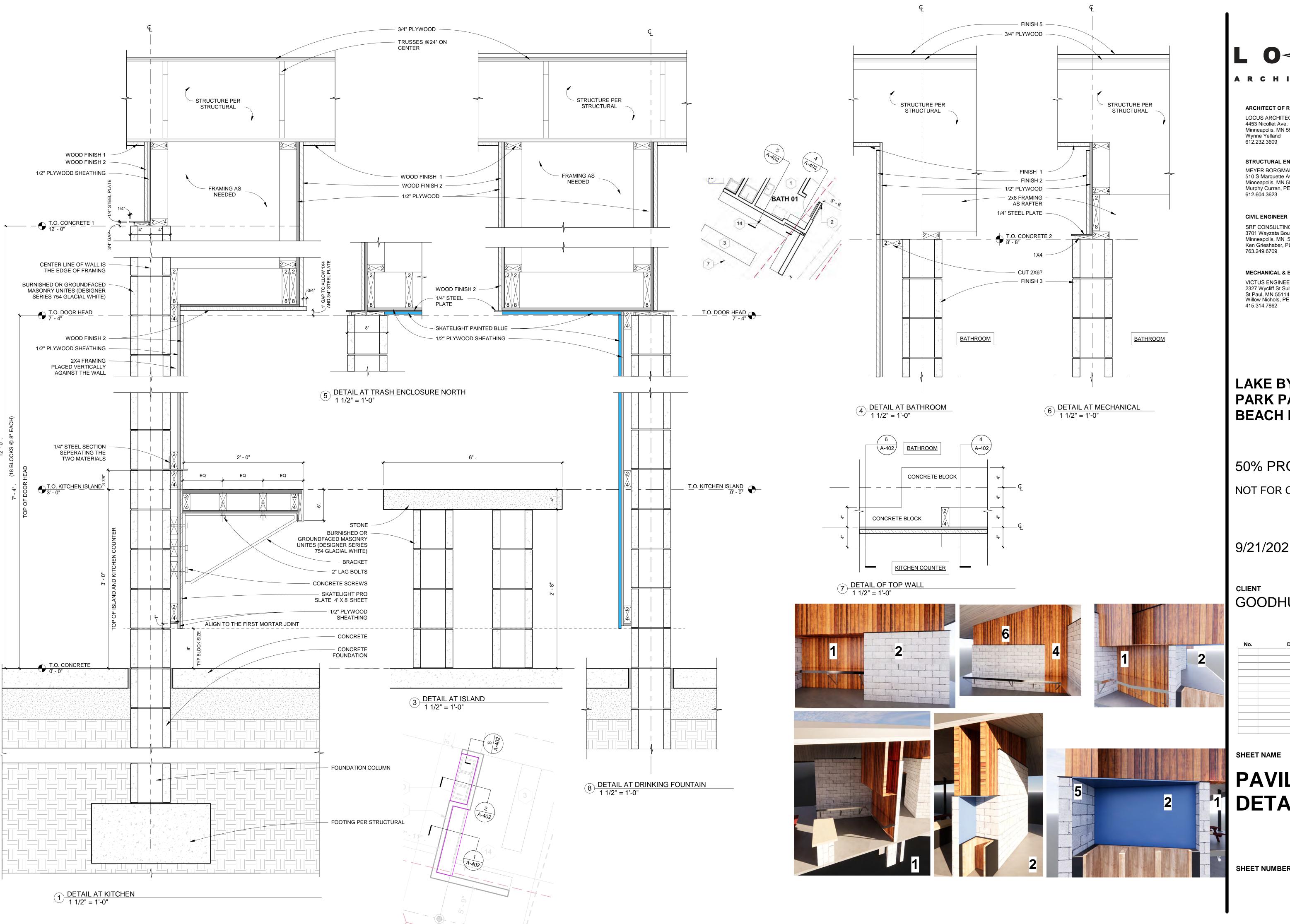
CLIENT GOODHUE COUNTY



SHEET NAME

PAVILION DETAILS

SHEET NUMBER





LOCUS ARCHITECTURE 4453 Nicollet Ave, Minneapolis, MN 55419 Wynne Yelland 612.232.3609

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LAKE BYLLESBY PARK PAVILION + **BEACH BATH**

50% PROGRESS SET NOT FOR CONSTRUCTION

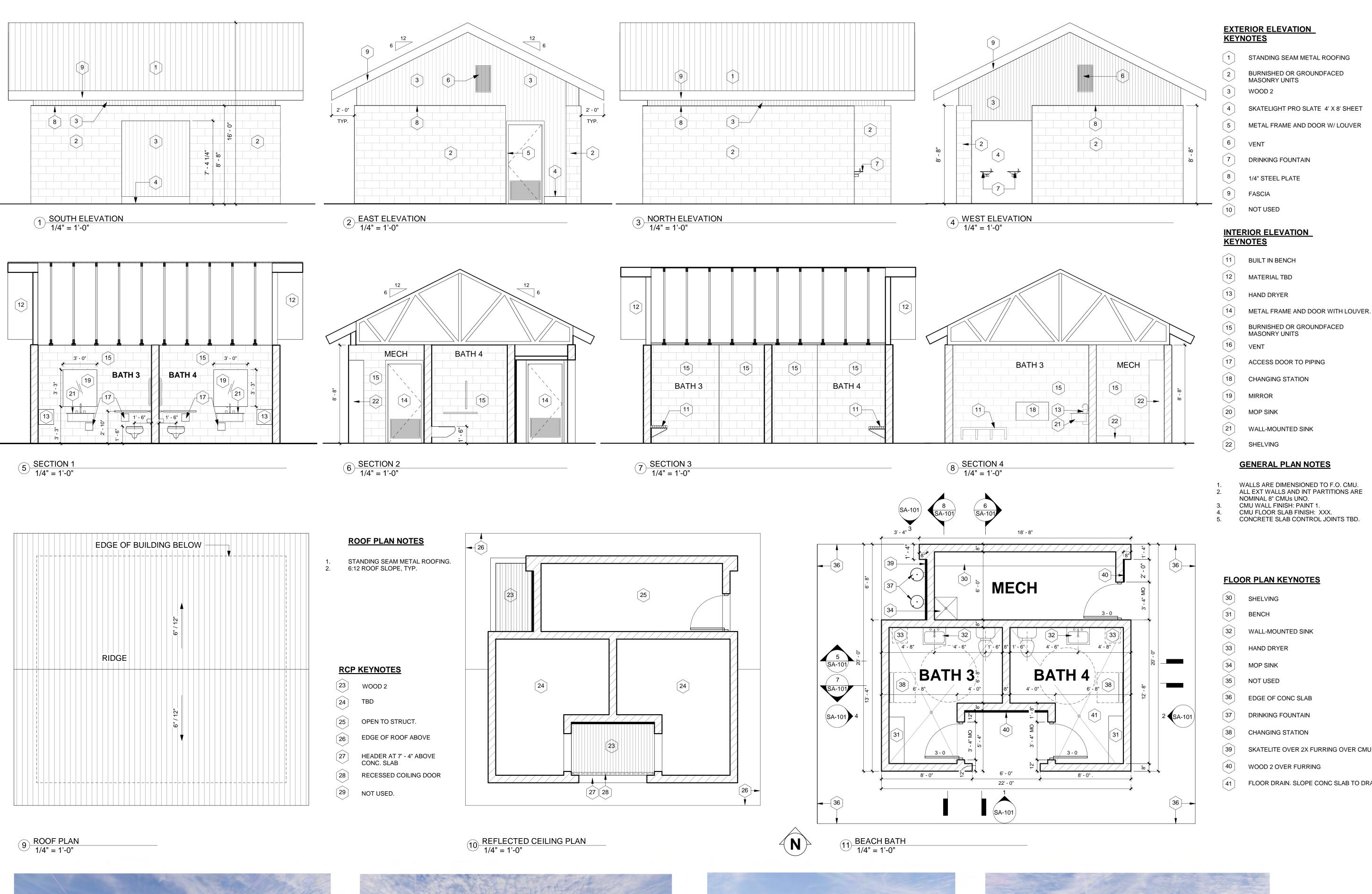
9/21/2021

CLIENT GOODHUE COUNTY

No.	Description	Date

SHEET NAME

PAVILION DETAILS









- STANDING SEAM METAL ROOFING
- BURNISHED OR GROUNDFACED
- SKATELIGHT PRO SLATE 4' X 8' SHEET

- BURNISHED OR GROUNDFACED

- WALLS ARE DIMENSIONED TO F.O. CMU.

- SKATELITE OVER 2X FURRING OVER CMU
- FLOOR DRAIN. SLOPE CONC SLAB TO DRAIN.

LOCUS ARCHITECTURE

STRUCTURAL ENGINEER

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3701 Wayzata Boulevard Suite 100,

MECHANICAL & ELECTRICAL ENGINEER

LAKE BYLLESBY

PARK PAVILION +

50% PROGRESS SET

NOT FOR CONSTRUCTION

GOODHUE COUNTY

Description

BEACH BATH

9/24/2021

CLIENT

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Murphy Curran, PE

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SHEET NAME

BEACH BATH DRAWINGS

SHEET NUMBER

SA-101

	PLUMBING FIXTURE SCHEDULE										
	FIXTURE TRIM										
MARK	DESCRIPTION	ADA	COLD (IN)	HOT (IN)	WASTE (IN)	VENT (IN)	MANUFACTURER	MODEL	MANUFACTURER	MODEL	NOTES
DF-1	BI-LEVEL, HEAVY DUTY VANDAL RESISTANT, FREEZE RESISTANT, STAINLESS STEEL DRINKING FOUNTAIN	Yes	1/2	-	1 1/2	1 1/2	ELKAY	EHWM17FPK			
L-1A	WALL MOUNTED BATHROOM SINK WITH MANUAL 2 HANDLE 0.5 GPM FAUCET	Yes	1/2	1/2	1 1/2	1 1/2	KOHLER	KINGSTON K-2005	KOHLER	CORALAIS K-15240-4NDRA	1
MB-1	24"x24" MOLDED STONE MOP SERVICE BASIN WITH SERVICE FAUCET	No	3/4	3/4	3	1 1/2	FIAT PRODUCTS	MSBIDTG2424			2
WC-1A	FLOOR MOUNTED PRESSURE ASSIST TANK TYPE TOILET, ENLONGATED BOWL, ADA HEIGHT, WHIITE, 1.6 GPF	Yes	1/2	-	4	2	KOHLER	K-3493-SS	KOHLER	K-4650	

NOTES:

1. PROVIDE WITH MOLDED COVERING FOR WATER AND WASTE PIPING, TRUBRO LAV GUARD2.

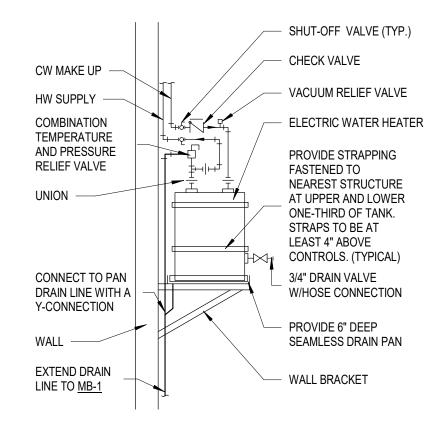
2. PACKAGE INCLUDES FAUCET, HOSE AND BRACKET, MOP HANGER.

	ELECTRIC WATER HEATER SCHEDULE														
		STORAGE RECOVERY									EXPANSION	ON TANK			
		NUMBER OF	KW				CAPACITY	TEMPERATURE	WATER	TEMP					
MARK	LOCATION	ELEMENTS	(EACH)	VOLTAGE	PHASE	HZ	(GALLONS)	SEETING (°F)	GPH	RISE (°F)	MANUFACTURER	MODEL	NOTES	MANUFACTURER	MODEL
EWH 1	MECH	1	2	120	1	60	6	120	8	100	A O SMITH	DEL-6		AMTROL	ST-5

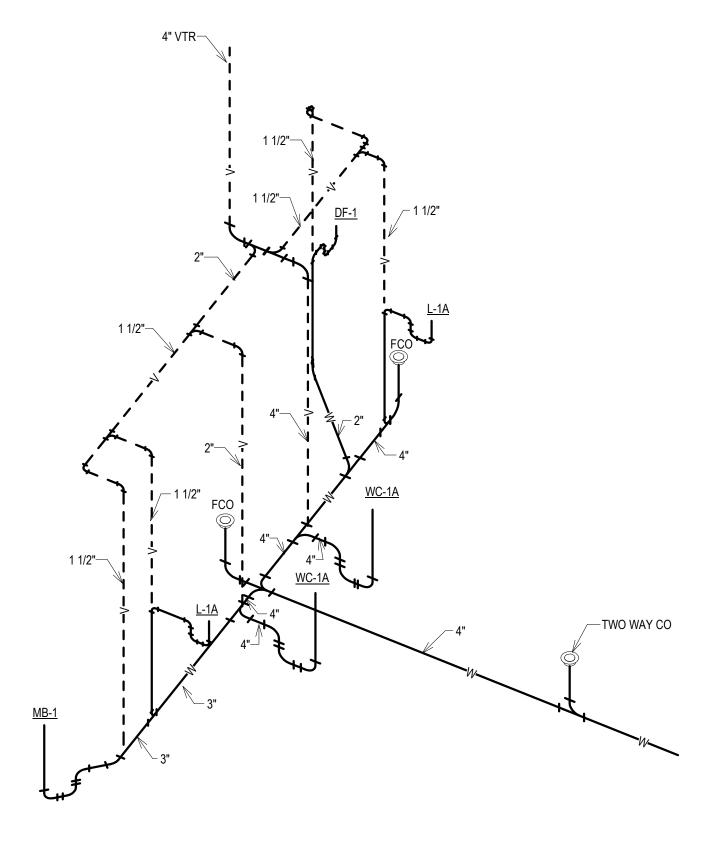
	ELECTRIC WALL HEATER SCHEDULE											
				ELECTRICA								
MARK	LOCATION	AIRFLOW (CFM)	WATTS	VOLTAGE	PHASE	HZ	MANUFACTURER	MODEL	NOTES			
EH 1	MECH	65	500	120	1	60	QMARK	CWH1101DSF	1			
EH 2	BATH 01	65	500	120	1	60	QMARK	CWH1101DSF	1			
EH 3	BATH 02	65	500	120	1	60	QMARK	CWH1101DSF	1			

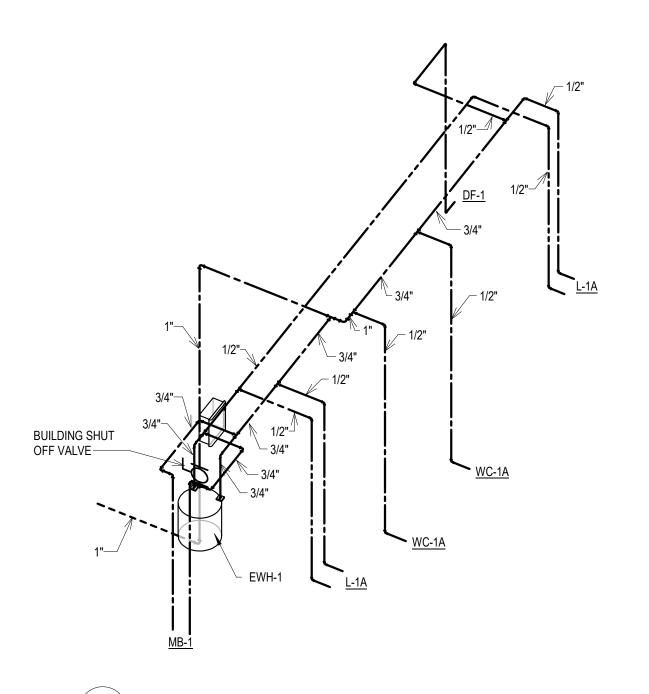
NOTES:

1. PROVIDE WITH SURFACE MOUNTING FRAME.



4 WALL MOUNTED ELECTRIC WATER HEATER DETAIL NO SCALE





2 DOMESTIC WATER RISER DIAGRAM P-101 NO SCALE

PLUMBING GENERAL NOTES

- ALL WORK SHALL COMPLY WITH REQUIREMENTS OF NATIONAL AND LOCAL CODES, WHICHEVER IS MORE STRINGENT. PROVIDE OFFSETS AS REQUIRED TO MEET SPACE REQUIREMENTS AND TO AVOID INTERFERENCE WITH OTHER TRADES. NOT ALL PIPING RISERS AND DROPS ARE SHOWN. ROUTE ALL PIPING AS HIGH AS POSSIBLE UNLESS NOTED OTHERWISE.
- COORDINATE FINAL LOCATION OF NEW PIPING AND PLUMBING FIXTURES WITH STRUCTURE, LIGHTING, ARCHITECTURAL ELEMENTS, DUCTWORK, PIPING AND SPRINKLERS.
- REFER TO PLUMBING DETAILS FOR ACCESSORIES AND FINAL CONNECTIONS TO PLUMBING EQUIPMENT. PROVIDE SHUTOFF VALVES IN EACH PRESSURE PIPING BRANCH TAKEOFF AND EACH BRANCH SERVING THREE OR MORE FIXTURES.
- PROVIDE ADEQUATE CLEARANCE FOR INSULATION IN HANGERS, FROM STRUCTURE AND FROM EQUIPMENT.
- SLOPE SANITARY WASTE AND VENT PIPING AT 1/4 INCH PER FOOT (2%) UNLESS OTHERWISE INDICATED.
- INSTALL PIPING TO ALLOW FOR EXPANSION AND CONTRACTION AND TO MINIMIZE STRESSING OF EQUIPMENT AND FIXTURE CONNECTIONS. WHERE ANY CONTROL VALVE, MANUAL VALVE, DRAIN OR AIR
- VENT CANNOT BE ACCESSED OR VIEWED THROUGH LAY-IN CEILINGS OR OTHER CONVENIENT MEANS, COORDINATE WITH GENERAL CONTRACTOR TO PROVIDE A MINIMUM 24 INCH x 24 INCH ARCHITECTURALLY ACCEPTABLE RATED ACCESS PANEL AT EACH INACCESSIBLE LOCATION.
- 10. CONNECT PIPE AND EQUIPMENT HANGERS TO TOP CHORD OF ROOF JOISTS, BEAM FLANGES OR CONCRETE FLOOR DECK, BY
- APPROVED MEANS. 11. CONCRETE CURBS AND PADS ARE PROVIDED BY OTHERS. COORDINATE EXACT SIZES AND LOCATIONS.
- 12. REFER TO ARCHITECTURAL FOR EXACT LOCATIONS AND MOUNTING HEIGHTS OF FIXTURES AND EQUIPMENT.
- 3. ALL PLUMBING VENT-THRU-ROOF SHALL BE LOCATED A MINIMUM OF 2'-0" FROM ANY WALL OR VERTICAL SURFACE AND A MINIMUM
- OF 10'-0" FROM FRESH AIR INTAKES. 14. PROVIDE 2-WAY CLEANOUT FOR SANITARY WASTE IMMEDIATELY OUTSIDE OF EXTERIOR WALL.

ARCHITECT OF RECORD

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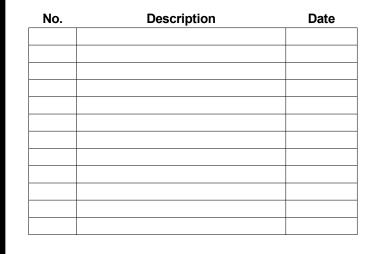
LAKE BYLLESBY **PARK PAVILION + BEACH BATH**

50% PROGRESS SET

NOT FOR CONSTRUCTION

09/22/2021

CLIENT GOODHUE COUNTY

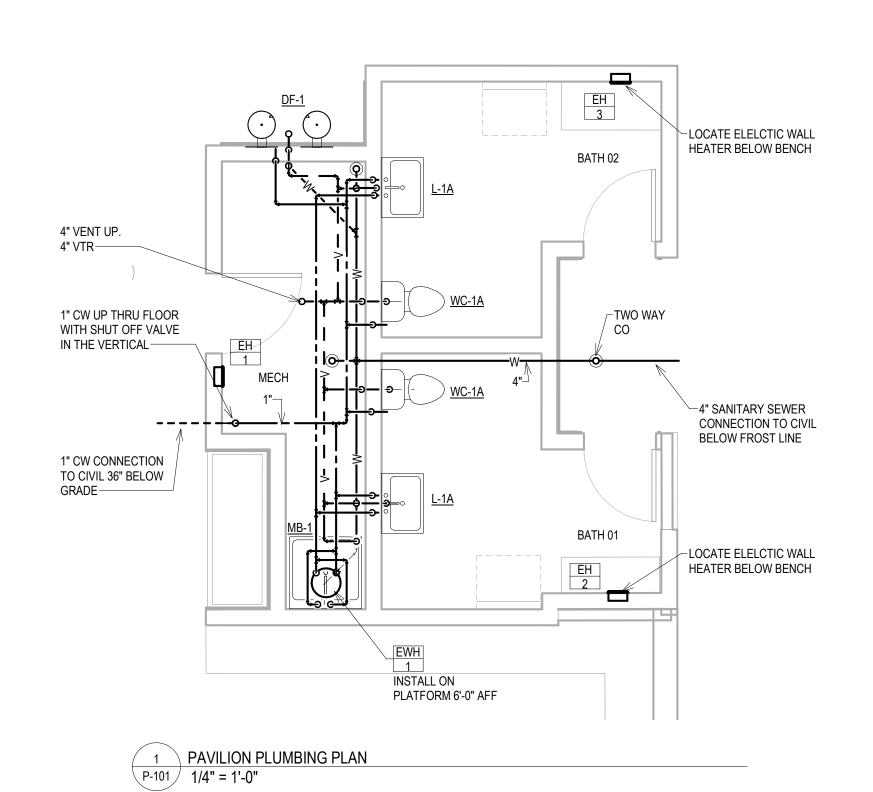


SHEET NAME

PLUMBING PLAN, **SCHEDULES AND DETAILS**

SHEET NUMBER

P-101



	PLUMBING FIXTURE SCHEDULE										
	COLD HOT WASTE VENT FIXTURE TRIM										
MARK	DESCRIPTION	ADA	(IN)	(IN)	(IN)	(IN)	MANUFACTURER	MODEL	MANUFACTURER	MODEL	NOTES
DF-1	BI-LEVEL, HEAVY DUTY VANDAL RESISTANT, FREEZE RESISTANT, STAINLESS STEEL DRINKING FOUNTAIN	Yes	1/2	-	1 1/2	1 1/2	ELKAY	EHWM17FPK			
L-1A	WALL MOUNTED BATHROOM SINK WITH MANUAL 2 HANDLE 0.5 GPM FAUCET	Yes	1/2	1/2	1 1/2	1 1/2	KOHLER	KINGSTON K-2005	KOHLER	CORALAIS K-15240-4NDRA	1
MB-1	24"x24" MOLDED STONE MOP SERVICE BASIN WITH SERVICE FAUCET	No	3/4	3/4	3	1 1/2	FIAT PRODUCTS	MSBIDTG2424			2
WC-1A	FLOOR MOUNTED PRESSURE ASSIST TANK TYPE TOILET, ENLONGATED BOWL, ADA HEIGHT, WHIITE, 1.6 GPF	Yes	1/2	-	4	2	KOHLER	K-3493-SS	KOHLER	K-4650	

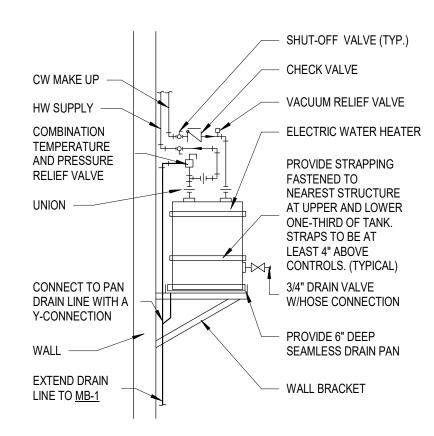
1. PROVIDE WITH MOLDED COVERING FOR WATER AND WASTE PIPING, TRUBRO LAV GUARD2.

2. PACKAGE INCLUDES FAUCET, HOSE AND BRACKET, MOP HANGER.

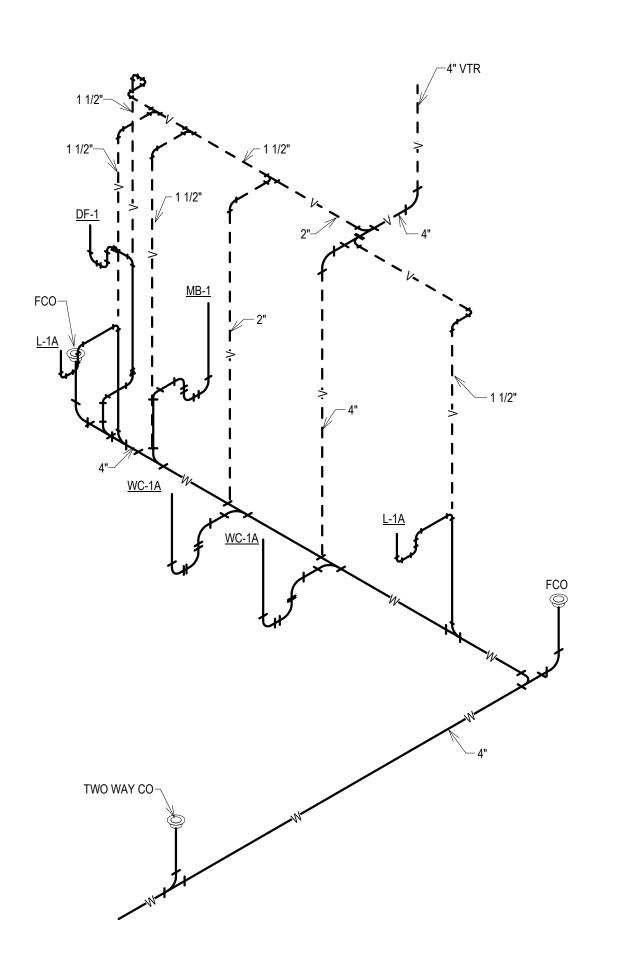
	ELECTRIC WATER HEATER SCHEDULE														
		ELECTRICAL DATA					STORAGE	ORAGE RECOVERY						EXPANSION TANK	
		NUMBER OF	KW				CAPACITY	TEPERATURE	WATER	TEMP					
MARK	LOCATION	ELEMENTS	(EACH)	VOLTAGE	PHASE	HZ	(GALLONS)	SETTING (°F)	GPH	RISE (°F)	MANUFACTURER	MODEL	NOTES	MANUFACTURER	MODEL
EWH 1	MECH	1	2	120	1	60	6	120	8	100	A O SMITH	DEL 6		AMTROL	ST-5

	ELECTRIC WALL HEATER SCHEDULE											
		AIRFLOW		ELECTRICA	AL DATA							
MARK	LOCATION	(CFM)	WATTS	VOLTAGE	PHASE	HZ	MANUFACTURER	MODEL	NOTES			
EH 1	MECH	65	500	120	1	60	QMARK	CWH1101DSF	1			
EH 2	BATH 01	65	500	120	1	60	QMARK	CWH1101DSF	1			
FH 3	BATH 02	65	500	120	1	60	OMARK	CWH1101DSF	1			

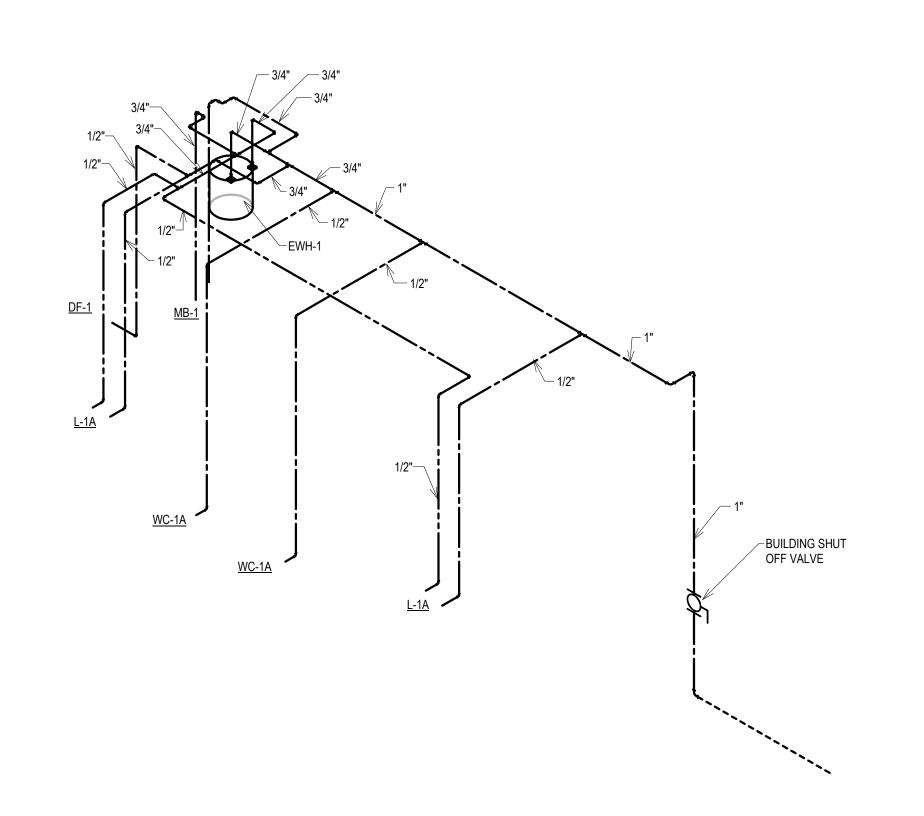
NOTES: 1. PROVIDE WITH SURFACE MOUNTING FAME.

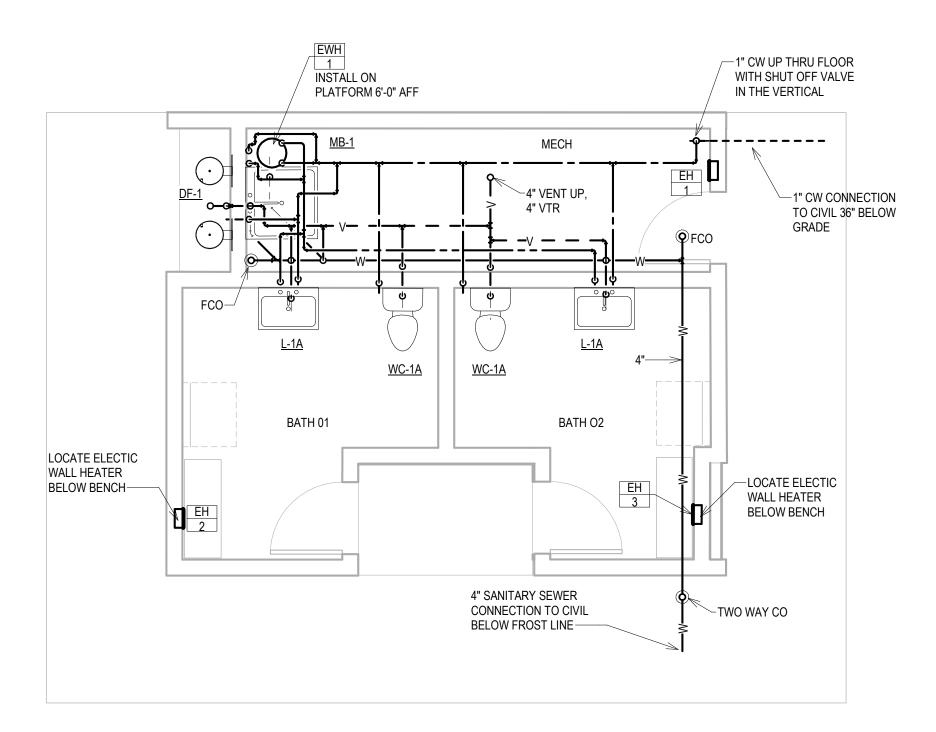


4 WALL MOUNTED ELECTRIC WATER HEATER DETAIL NO SCALE



SP-101 SANITARY WASTE AND VENT RISR DIAGRAM NO SCALE





BEACH BATH PLUMBING PLAN
SP-101 1/4" = 1'-0"

2 DOMESTIC WATER RISER DIAGRAM NO SCALE

PLUMBING GENERAL NOTES

- ALL WORK SHALL COMPLY WITH REQUIREMENTS OF NATIONAL AND LOCAL CODES, WHICHEVER IS MORE STRINGENT. PROVIDE OFFSETS AS REQUIRED TO MEET SPACE REQUIREMENTS AND TO AVOID INTERFERENCE WITH OTHER TRADES. NOT ALL PIPING RISERS AND DROPS ARE SHOWN. ROUTE ALL PIPING AS HIGH AS POSSIBLE UNLESS NOTED
- OTHERWISE. COORDINATE FINAL LOCATION OF NEW PIPING AND PLUMBING FIXTURES WITH STRUCTURE, LIGHTING, ARCHITECTURAL
- ELEMENTS, DUCTWORK, PIPING AND SPRINKLERS. REFER TO PLUMBING DETAILS FOR ACCESSORIES AND FINAL CONNECTIONS TO PLUMBING EQUIPMENT. PROVIDE SHUTOFF VALVES IN EACH PRESSURE PIPING BRANCH TAKEOFF AND EACH BRANCH SERVING THREE OR MORE
- FIXTURES. PROVIDE ADEQUATE CLEARANCE FOR INSULATION IN HANGERS, FROM STRUCTURE AND FROM EQUIPMENT. SLOPE SANITARY WASTE AND VENT PIPING AT 1/4 INCH PER
- FOOT (2%) UNLESS OTHERWISE INDICATED. . INSTALL PIPING TO ALLOW FOR EXPANSION AND CONTRACTION AND TO MINIMIZE STRESSING OF EQUIPMENT AND FIXTURE
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- 1. CONCRETE CURBS AND PADS ARE PROVIDED BY OTHERS. COORDINATE EXACT SIZES AND LOCATIONS.
- 2. REFER TO ARCHITECTURAL FOR EXACT LOCATIONS AND MOUNTING HEIGHTS OF FIXTURES AND EQUIPMENT. 3. ALL PLUMBING VENT-THRU-ROOF SHALL BE LOCATED A MINIMUM OF 2'-0" FROM ANY WALL OR VERTICAL SURFACE AND A MINIMUM
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LAKE BYLLESBY **PARK PAVILION + BEACH BATH**

ARCHITECT OF RECORD

LOCUS ARCHITECTURE

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3701 Wayzata Boulevard Suite 100,

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4453 Nicollet Ave,

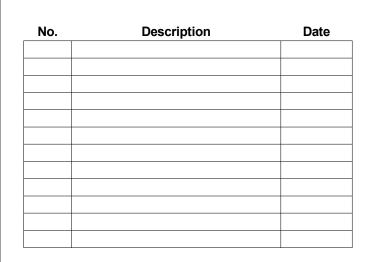
Wynne Yelland 612.232.3609

50% PROGRESS SET

NOT FOR CONSTRUCTION

09/22/2021

CLIENT GOODHUE COUNTY

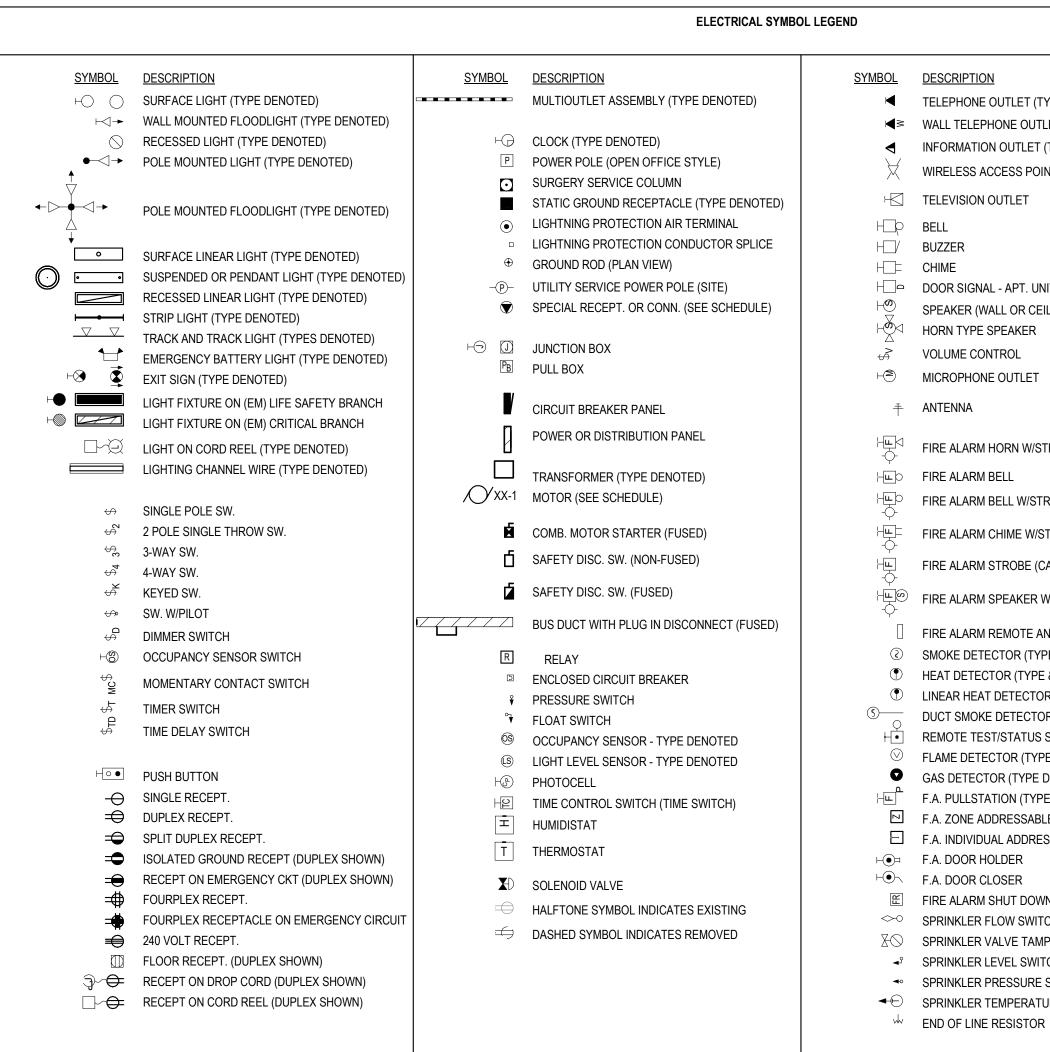


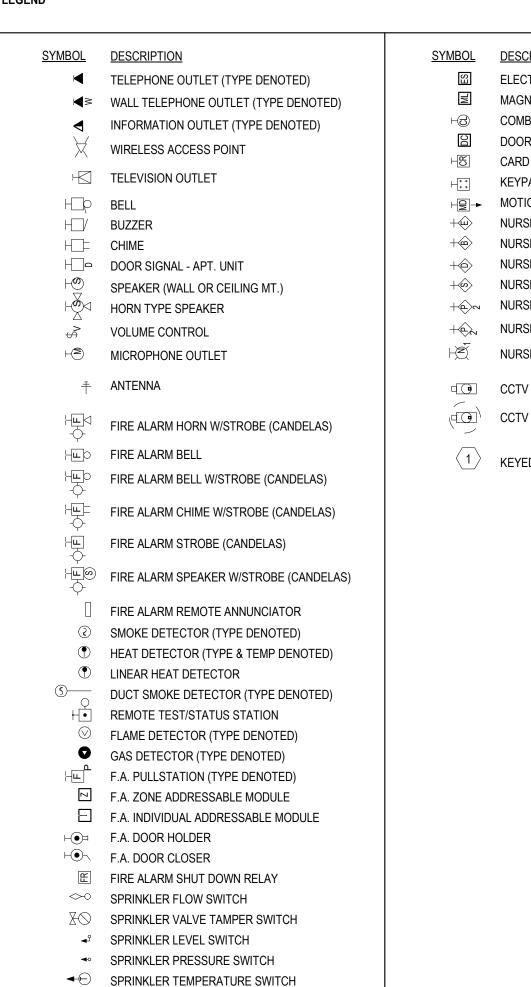
SHEET NAME

PLUMBING PLAN, SCHEDULES, **AND DETAILS**

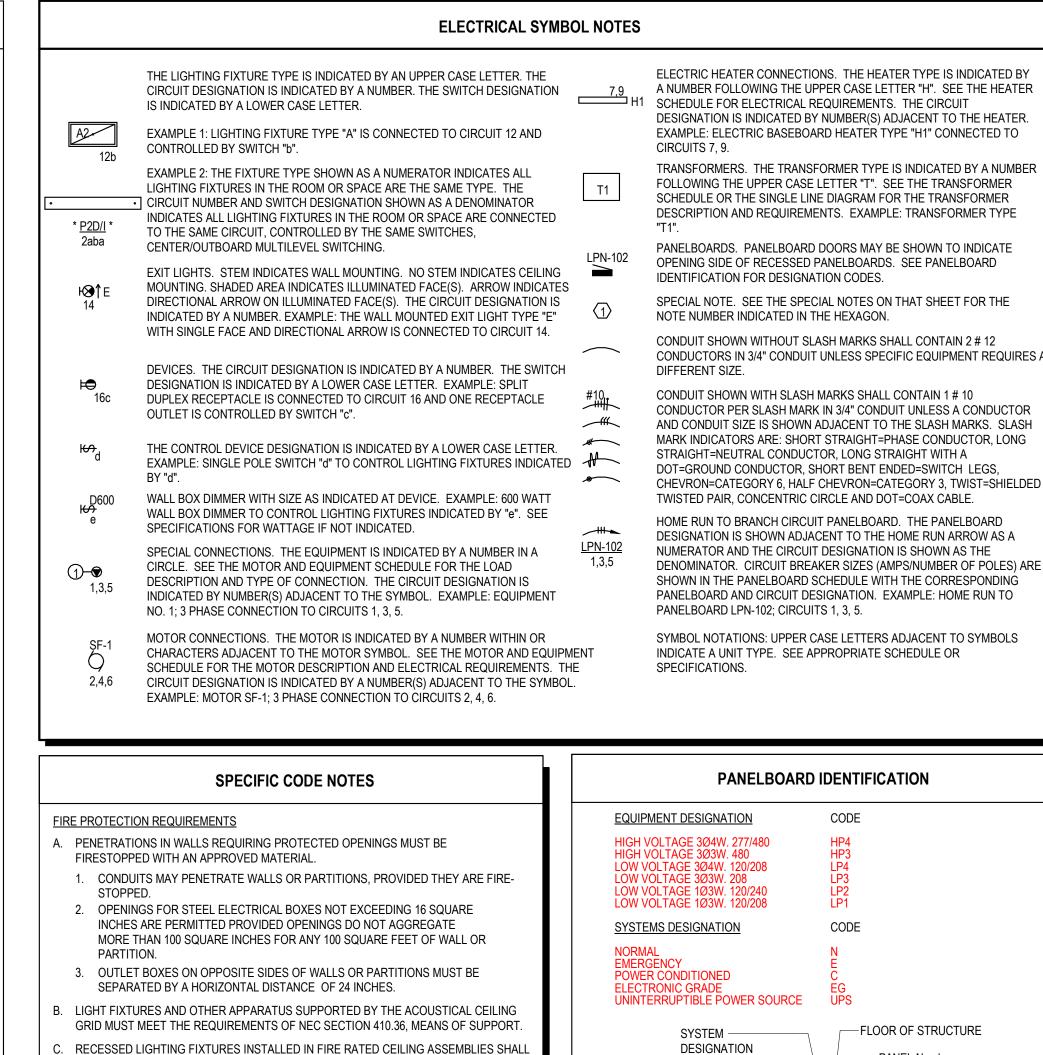
SHEET NUMBER

SP-101





DESCRIPTION
ELECTRIC STRIKE
MAGNETIC LOCK
COMBINATION LOCK
DOOR CONTACTS
CARD READER
KEYPAD
MOTION DETECTOR (TYPE DENOTED)
NURSE CALL EMERG. STATION
NURSE CALL CODE BLUE EMERG. STATION
NURSE CALL DUTY STATION
NURSE CALL STAFF STATION
NURSE CALL SINGLE PATIENT STATION
NURSE CALL DUAL PATIENT STATION
NURSE CALL DOME LIGHT (2 LAMP)
CCTV CAMERA
CCTV CAMERA WITH PAN/TILT DRIVE
KEYED NOTE (SEE SCHEDULE)



BE FIRE RATED FIXTURES BEARING THE UL FIRE RATED LABEL. FIXTURES SHALL BE

ELECTRICAL ABBREVIATIONS LIST 1P 1 POLE (2P, 3P, 4P, ETC.) NEMA NATIONAL ELECTRICAL HTG HEATING MANUFACTURER'S ASSOCIATION SYM SYMMETRICAL AMPERE COPPER NFDS NON-FUSED SAFETY DISCONNECT SYS SYSTEM DCP ABOVE COUNTER OR AIR DOMESTIC WATER CIRCULATING PUMP HTR HEATER TEL TELEPHONE DEPT DEPARTMENT HIGH VOLTAGE ACLG ABOVE CEILING HVAC HEATING, VENTILATING AND AIR TEL/DATA TELEPHONE/DATA DET DETAIL NOT IN CONTRACT AUTOMATIC DOOR OPENER CONDITIONING NIGHT LIGHT TERM TERMINAL DIA DIAMETER AMP FRAME DISC DISCONNECT HYDRONIC WATER PUMP N.O. NORMALLY OPEN TL TWIST LOCK ABOVE FINISHED FLOOR DIST DISTRIBUTION INTERRUPTING CAPACITY NPF NORMAL POWER FACTOR TR TAMPER RESISTANT NOT TO SCALE T-STAT THERMOSTAT ABOVE FINISHED GRADE DN ISOLATED GROUND NTS DOWN ARC FAULT CIRCUIT DPR DAMPER IMC INTERMEDIATE METAL CONDUIT OH OVERHEAD TTC TELEPHONE TERMINAL CABINET INTERRUPTER SAFETY DISCONNECT SWITCH INCAND INCANDESCENT OVERLOADS TELEVISION AIR HANDLING UNIT DOUBLE THROW INFRARED PUBLIC ADDRESS TVTC TELEVISION TERMINAL CABINET ALUMINUM I/W INTERLOCK WITH PULL BOX OR PUSHBUTTON ALTERNATE ELECTRICAL CONTRACTOR J-BOX JUNCTION BOX PNEUMATIC ELECTRIC UNDER COUNTER AMPERE ELEC ELECTRIC, ELECTRICAL KV KILOVOLT PEDESTAL UNDERGROUND ELECTRICAL AMPL AMPLIFIER KVA KILOVOLT-AMPERE POWER FACTOR UNDERGROUND FLEV FLEVATOR ANNUN ANNUNCIATOR **EMERGENCY** KVAR KILOVOLT-AMPERE REACTIVE UNIT HEATER POST INDICATING VALVE UNDERGROUND TELEPHONE APPROX APPROXIMATELY EMS ENERGY MANAGEMENT SYSTEM KW KILOWATT PIV AQ-STAT AQUASTAT EMT ELECTRICAL METALLIC TUBING KWH KILOWATT HOUR PANEL UTIL UTILITY LOC LOCATE OR LOCATION UNIT VENTILATOR OR ARCH ARCHITECT, ARCHITECTURAL POWER POLE EQUIP EQUIPMENT AS AMP SWITCH LIGHT ULTRAVIOLET AMP TRIP LTG LIGHTING PRIMARY EWC ELECTRIC WATER COOLER VOI T ATS AUTOMATIC TRANSFER SWITCH EXIST EXISTING LTNG LIGHTNING PROJECTION **VOLT-AMPERES** VDT POWER ROOF VENTILATOR VIDEO DISPLAY TERMINAL AUTO AUTOMATIC EXH EXHAUST LV LOW VOLTAGE AUX AUXILIARY VERT VERTICAL EXP EXPLOSION PROOF POTENTIAL TRANSFORMER MAX MAXIMUM POLYVINYL CHLORIDE (CONDUIT) VFD VARIABLE FREQUENCY DRIVE AUDIO VISUAL FA FIRE ALARM MAG.S MAGNETIC STARTER AMERICAN WIRE GAUGE FABP FIRE ALARM BOOSTER POWER M/C MOMENTARY CONTACT VOL BATT BATTERY MECHANICAL CONTRACTOR WATT SUPPLY PANEL QUAN QUANTITY BOARD FACP FIRE ALARM CONTROL PANEL MCB MAIN CIRCUIT BREAKER RCPT RECEPTACLE WITH BLDG BUILDING FCU FAN COIL UNIT MCC MOTOR CONTROL CENTER REQD REQUIRED WIRE GUARD BMS BUILDING MANAGEMENT SYSTEMFIXT FIXTURE MDC MAIN DISTRIBUTION CENTER WATER HEATER CONDUIT MDP MAIN DISTRIBUTION PANEL RSC RIGID STEEL CONDUI WITHOUT FLUOR FLUORESCENT ROOF TOP UNIT WEATHERPROOF SURFACE CONDUIT CAT CATALOG FU FUSE MFS MAIN FUSED DISCONNECT SWITCH SC XFMR TRANSFORMER CATV CABLE TELEVISION FUDS FUSED SAFETY DISCONNECT SWITCH MH MANHOLE SECONDARY XFR TRANSFER GA GAUGE MICROPHONE CIRCUIT BREAKER CCTV CLOSED CIRCUIT TELEVISION GAL GALLON MINIMUM SIMII AR CKT CIRCUIT MISC MISCELLANEOUS SOLID NEUTRAL GALV GALVANIZED CLG CEILING GENERAL CONTRACTOR MLO MAIN LUGS ONLY SPECIFICATION ANGLE COMB COMBINATION GENERATOR MMS MANUAL MOTOR STARTER SPEAKER @ AT GROUND FAULT CIRCUIT INTERRUPTERMOA MULTIOUTLET ASSEMBLY CMPR COMPRESSOR ▲ DELTA CONN CONNECTION GROUND FAULT PROTECTOR MSP MOTOR STARTER PANELBOARD SURFACE RACEWAY FEET CONST CONSTRUCTION GND GROUND MSBD MAIN SWITCHBOARD STAINLESS STEEL INCHES CONT CONTINUATION OR CONTINUOUS GRS GALVANIZED RIGID STEEL (CONDUIT) MT MOUNT SELECTOR SWITCH NUMBER CONTR CONTRACTOR GYP BD GYPSUM BOARD MT.C EMPTY CONDUIT STOP/START PUSHBUTTONS PHASE CONV CONVECTOR HOA HANDS-OFF-AUTOMATIC SWITCH MTS MANUAL TRANSFER SWITCH STA STATION CENTER LINE CIRCULATING PUMP MTR MOTOR, MOTORIZED HORIZ HORIZONTAL STD STANDARD P PLATE CATHODE-RAY TUBE HORSEPOWER N.C. NORMALLY CLOSED SURF SURFACE MOUNTED CURRENT TRANSFORMER HPF HIGH POWER FACTOR NEC NATIONAL ELECTRICAL CODE SW SWITCH

ALL CONDUCTORS OPERATING AT 50 VOLTS OR GREATER SHALL BE IN RACEWAY. ALL RACEWAY WITHIN THE STRUCTURE ABOVE THE FLOOR SLAB SHALL BE METAL. RACEWAY BELOW THE FLOOR SLAB AND UNDERGROUND RACEWAY OUTSIDE THE STRUCTURE SHALL BE PVC. ALL LOW VOLTAGE CABLES OR CONDUCTORS OPERATING AT LESS THAN 50 VOLTS SHALL BE IN METAL RACEWAY WHERE INSTALLED WITHIN WALLS OR INACCESSIBLE SPACES. LOW VOLTAGE CABLES MAY BE RUN IN CABLE TRAY WHERE NOTED. LOW VOLTAGE CABLES MAY BE RUN IN CABLE SUPPORT HOOKS ABOVE ACCESSIBLE CEILINGS WHERE NOTED. COORDINATE LOCATIONS OF DEVICES WITH ARCHITECTURAL ELEVATIONS AND DETAILS. ARCHITECTURAL ELEVATIONS AND DETAILS TAKE PRECEDENCE OVER LOCATIONS SHOWN ON ELECTRICAL DRAWINGS. SEE ARCHITECTURAL ELEVATIONS FOR LOCATIONS OF ELECTRICAL DEVICES AT PATIENT BED D. VERIFY LOCATIONS AND ROUGH-IN REQUIREMENTS OF ALL OWNER FURNISHED EQUIPMENT PRIOR TO ROUGH-IN. CONDUIT AND WIRE SHALL NOT BE INSTALLED BELOW FLOOR SLAB UNLESS INDICATED ON PLAN BY DASHED CONDUIT. CONTRACTOR SHALL BE RESPONSIBLE FOR WIRING ALL ELECTRICAL ITEMS SHOWN ON DRAWINGS EXCEPT FOR ITEMS LISTED IN NOTE G. DATA OUTLETS, AND FIRE ALARM DEVICES SHALL CONSIST OF A BACK BOX WITH CONDUIT STUBBED ABOVE THE ACCESSIBLE CEILING, SEE STUB UP DETAIL. VERIFY SIZE OF BACK BOX REQUIRED WITH DEVICE TO BE INSTALLED. LOCATE BACK BOXES 6" FROM ADJACENT POWER RECEPTACLE INTENDED FOR COMPUTER USE. H. FURNISH AND INSTALL CONDUIT FROM BACK BOXES FOR THE FOLLOWING DEVICES INTO THE ACCESSIBLE CEILING SPACE IN THE CORRIDOR, UNLESS NOTED OTHERWISE: INFORMATION OUTLETS

FIRE ALARM DEVICES

GENERAL ELECTRICAL NOTES

INSTALLED IN ACCORDANCE WITH THE UL FIRE RESISTANCE DIRECTORY, AND SHALL DESIGNATION INCLUDE A FIRE RATED ENCLOSURE INSTALLED OVER THE FIXTURE THAT MEETS THE LP4N-102 REQUIREMENTS OF THE UL FIRE RESISTANCE DIRECTORY. **ELECTRICAL DRAWINGS** E-000 ELECTRICAL TITLE SHEET E-101 ELECTRICAL SITE PLAN E-201 PAVILLION ELECTRICAL PLANS ES-101 BEACH BUILDING ELECTRICAL PLANS

EQUIPMENT

ARCHITECT OF RECORD

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MECHANICAL & ELECTRICAL ENGINEER

VICTUS ENGINEERING 2327 Wycliff St Suite 230, St Paul, MN 55114 Willow Nichols, PE 415.314.7862

LAKE BYLLESBY **PARK PAVILION + BEACH BATH**

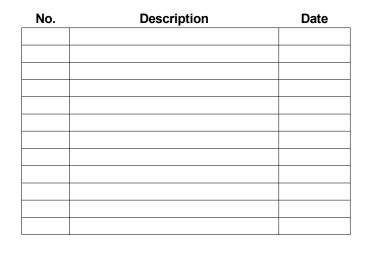
50% PROGRESS SET

NOT FOR CONSTRUCTION

09/22/2021

—PANEL Number

GOODHUE COUNTY

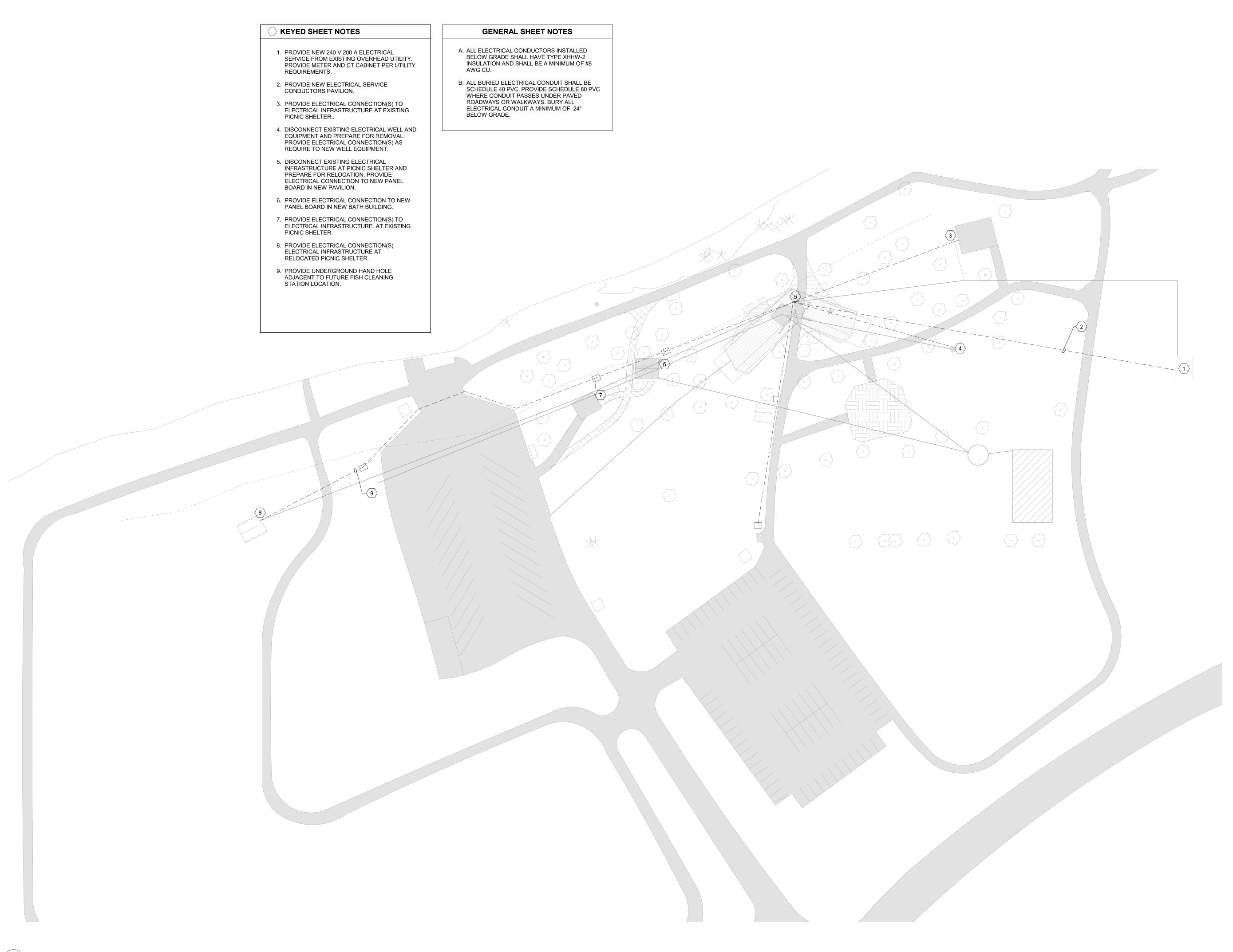


SHEET NAME

ELECTRICAL TITLE SHEET

SHEET NUMBER

E-000





LOCUS ARCHITECTURE 4453 Nicollet Ave, Minneapolis, MN 55419 Wynne Yelland 612.232.3609

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GOODHUE COUNTY

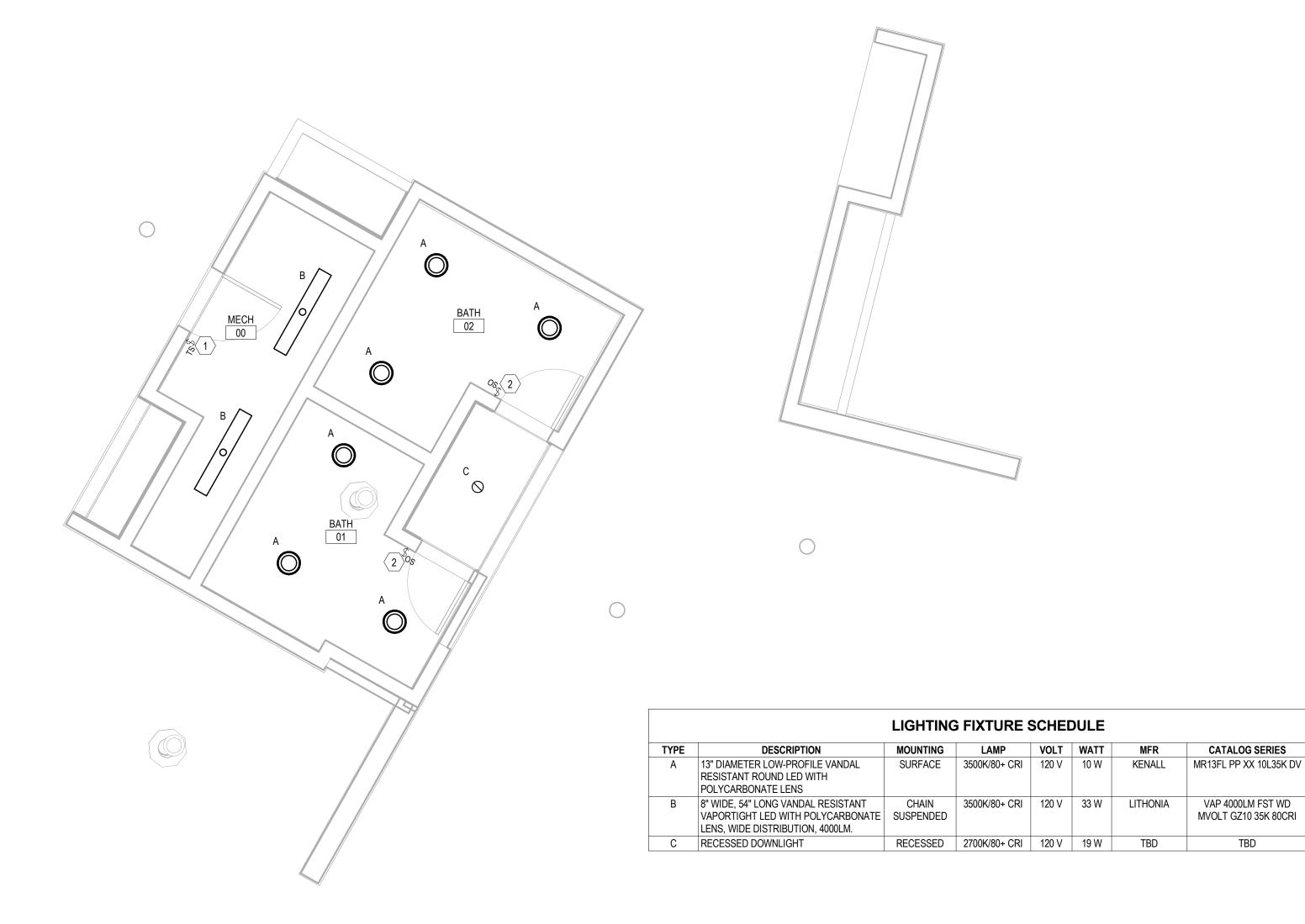
No.	Description	Date

SHEET NAME

ELECTRICAL SITE PLAN

SHEET NUMBER

E-101



GENERAL SHEET NOTES

- A. ALL ELECTRICAL LUMINAIRES, EQUIPMENT, AND DEVICES ON THIS SHEET ARE NEW, UNLESS NOTED OTHERWISE.
- B. CIRCUIT WIRING IS NOT SHOWN. PROVIDE NUMBER OF CONDUCTORS NEEDED TO ACHIEVE CIRCUITING AND SWITCHING ARRANGEMENTS INDICATED.
- C. CONFIGURE LIGHTING CONTROL DEVICES FOR OCCUPANCY (AUTO-ON, AUTO-OFF) OPERATION, UNLESS NOTED OTHERWISE.
- D. SET TIME DELAY OF ALL OCCUPANCY SENSING DEVICES TO TWENTY (20) MINUTES, UNLESS NOTED OTHERWISE.
- E. WHERE CONNECTED TO A 20 A BRANCH CIRCUIT SUPPLYING AN INDIVIDUAL RECEPTACLE (SIMPLEX OR DUPLEX), THE RECEPTACLE SHALL BE RATED FOR 20 A.
- F. CONNECT ALL NEW BRANCH CIRCUITS TO PANEL LC-P. NUMERICAL TAGS AT ELECTRICAL DEVICES INDICATE CIRCUIT/BREAKER NUMBER
- G. PROVIDE DEDICATED CIRCUIT FOR EACH RECEPTACLE SHOWN.

KEYED SHEET NOTES

CATALOG SERIES NOTE

VAP 4000LM FST WD

MVOLT GZ10 35K 80CRI

- 1. PROVIDE WALL MOUNTED DIGITAL TIME SWITCH, ADJUSTMENT RANGE 5 MINUTES TO 12 HOURS, AUDIBLE AND FLASH WARNING, WITH POWER PACK AND CONTROLLER. WATTSTOPPER TS-400 OR EQUIVALENT.
- 2. PROVIDE COMBINATION PIR OCCUPANCY SENSOR/SWITCH, WALL MOUNTED, LINE VOLTAGE, WITH ON-OFF PUSHBUTTON. WATTSTOPPER PW-301-W OR EQUIVALENT
- 3. PROVIDE 240/120 V SINGLE-PHASE, SURFACE-MOUNTED PANELBOARD WITH A SERVICE-RATED 200A MCB.
- 4. PROVIDE DEDICATED 240V SINGLE-PHASE CONNECTION TO ELECTRIC HAND DRYER. PROVIDE 20A CIRCUIT BREAKER. COORDINATE EXACT INSTALLATION HEIGHT WITH EQUIPMENT MANUFACTURER.
- 5. PROVIDE DEDICATED 120V 15A RECEPTACLE FOR WATER FOUNTAIN/BOTTLE FILLER.
- 6. INSTALL RECEPTACLES HORIZONTALLY ABOVE EXTERIOR COUNTER. TYP ALL RECEPTACLES ABOVE COUNTER.

1 LEVEL 1 LIGHTING PLAN E-201 1/4" = 1'-0" BATH 02 MECH 00 BATH 01

	ELECTRICAL EQUIPMENT SCHEDULE											
		LOCA	ATION			CONDUIT & WIRE						
NO.	DESCRIPTION	NAME	NUMBER	VOLT	PHASE	SIZE	NOTES					
EWH 1	ELECTRIC WATER HEATER	MECH	00	120 V	1	3/4"C, 2#10, #12G						
			1 - 1		· ·							



ARCHITECT OF RECORD

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LAKE BYLLESBY PARK PAVILION + **BEACH BATH**

50% PROGRESS SET

NOT FOR CONSTRUCTION

09/22/2021

CLIENT GOODHUE COUNTY

No.	Description	Date	

SHEET NAME

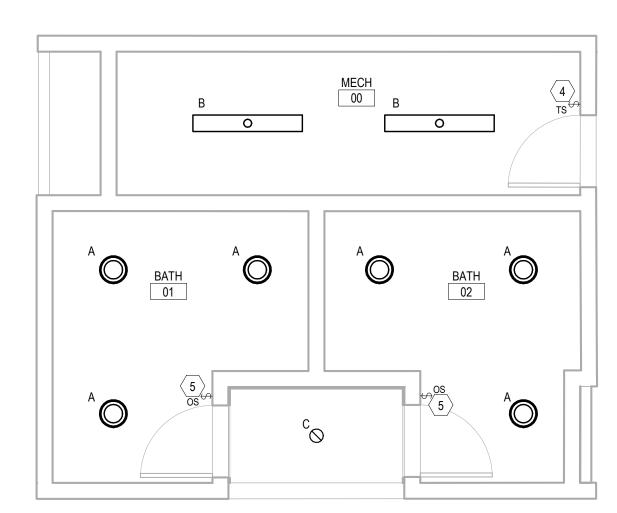
PAVILLION ELECTRICAL PLANS

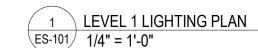
SHEET NUMBER

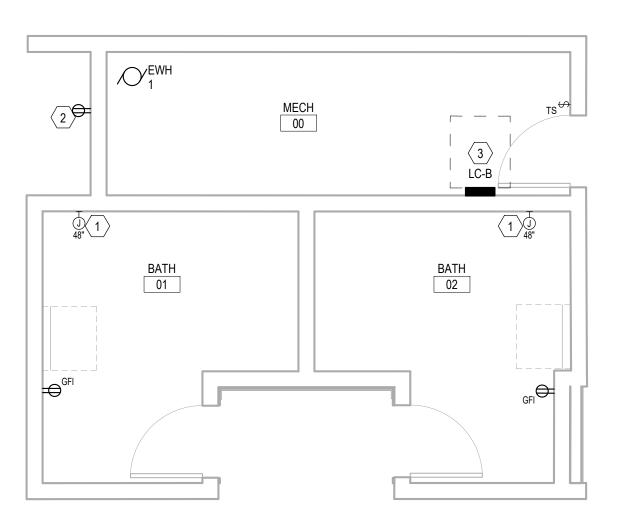
E-201

	LIGHTING FIXTURE SCHEDULE								
TYPE	DESCRIPTION	MOUNTING	LAMP	VOLT	WATT	MFR	CATALOG SERIES	NOTE	
Α	13" DIAMETER LOW-PROFILE VANDAL RESISTANT ROUND LED WITH POLYCARBONATE LENS	SURFACE	3500K/80+ CRI	120 V	10 W	KENALL	MR13FL PP XX 10L35K DV		
В	8" WIDE, 54" LONG VANDAL RESISTANT VAPORTIGHT LED WITH POLYCARBONATE LENS, WIDE DISTRIBUTION, 4000LM.	CHAIN SUSPENDED	3500K/80+ CRI	120 V	33 W	LITHONIA	VAP 4000LM FST WD MVOLT GZ10 35K 80CRI		
С	RECESSED DOWNLIGHT	RECESSED	2700K/80+ CRI	120 V	19 W	TBD	TBD		

ELECTRICAL EQUIPMENT SCHEDULE								
		LO	LOCATION			CONDUIT & WIRE		
NO.	DESCRIPTION	NAME	NUMBER	VOLT	PHASE	SIZE	NOTES	
EWH 1	ELECTRIC WATER HEATER	MECH	00	120 V	1	3/4"C, 2#10, #12G		







2 LEVEL 1 POWER PLAN ES-101 1/4" = 1'-0"

GENERAL SHEET NOTES

- A. ALL ELECTRICAL LUMINAIRES, EQUIPMENT, AND DEVICES ON THIS SHEET ARE NEW, UNLESS NOTED OTHERWISE.
- B. CIRCUIT WIRING IS NOT SHOWN. PROVIDE NUMBER OF CONDUCTORS NEEDED TO ACHIEVE CIRCUITING AND SWITCHING ARRANGEMENTS INDICATED.
- C. CONFIGURE LIGHTING CONTROL DEVICES FOR OCCUPANCY (AUTO-ON, AUTO-OFF) OPERATION, UNLESS NOTED OTHERWISE.
- D. SET TIME DELAY OF ALL OCCUPANCY SENSING DEVICES TO TWENTY (20) MINUTES, UNLESS NOTED OTHERWISE.
- E. WIRE COUNTS FOR CIRCUIT CONDUCTORS ARE NOT SHOWN. PROVIDE PROPER NUMBER OF CONDUCTORS TO ACHIEVE CIRCUIT AND SWITCHING CONNECTIONS SHOWN.
- F. WHERE CONNECTED TO A 20 A BRANCH CIRCUIT SUPPLYING AN INDIVIDUAL RECEPTACLE (SIMPLEX OR DUPLEX), THE RECEPTACLE SHALL BE RATED FOR 20 A.
- G. CONNECT ALL NEW BRANCH CIRCUITS TO PANEL LC-B. NUMERICAL TAGS AT ELECTRICAL DEVICES INDICATE CIRCUIT/BREAKER NUMBER.
- H. PROVIDE DEDICATED CIRCUIT FOR EACH RECEPTACLE SHOWN.

○ KEYED SHEET NOTES

- PROVIDE DEDICATED 240V SINGLE-PHASE CONNECTION TO ELECTRIC HAND DRYER. PROVIDE 20A CIRCUIT BREAKER. COORDINATE EXACT INSTALLATION HEIGHT WITH EQUIPMENT MANUFACTURER.
- 2. PROVIDE DEDICATED 120V 15A RECEPTACLE FOR WATER FOUNTAIN/BOTTLE FILLER.
- PROVIDE 240/120 V SINGLE-PHASE, SURFACE-MOUNTED, 12-POLE (MINIMUM) LOAD CENTER WITH A MINIMUM AMPACITY RATING OF 60 A.
- 4. PROVIDE WALL MOUNTED DIGITAL TIME SWITCH, ADJUSTMENT RANGE 5 MINUTES TO 12 HOURS, AUDIBLE AND FLASH WARNING, WITH POWER PACK AND CONTROLLER. WATTSTOPPER TS-400 OR EQUIVALENT.
- 5. PROVIDE COMBINATION PIR OCCUPANCY SENSOR/SWITCH, WALL MOUNTED, LINE VOLTAGE, WITH ON-OFF PUSHBUTTON. WATTSTOPPER PW-301-W OR EQUIVALENT.



ARCHITECT OF RECORD

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LAKE BYLLESBY PARK PAVILION + BEACH BATH

50% PROGRESS SET

NOT FOR CONSTRUCTION

09/22/2021

GOODHUE COUNTY

No.	Description	Date

SHEET NAME

BEACH BUILDING ELECTRICAL PLANS

SHEET NUMBER

ES-101

Greg Isakson, P.E.



Public Works Director/County Engineer Goodhue County Public Works Department

> 2140 Pioneer Road Red Wing, MN 55066 Office (651) 385.3025

TO: Goodhue County Parks, Trails, and Recreation Advisory Board

FROM: Greg Isakson, Public Works Director

RE: 07 Oct 21 Park Board Meeting

Byllesby Park Berm Planting Plan

Date: 01 Oct 21

Summary

It is requested that the Park Board review and approve Byllesby Park berm planting concepts, plant sizes, budget goals, and project funding.

Background

The eastern 26 acres of Byllesby Park, commonly referred to as "the Goudy Property" or the "Savanna Campground" in the 2017 Byllesby Park Master Plan, is currently an undeveloped and underutilized portion of the park. The Park Board has identified building a berm on this property along Highway 19 as the next priority grant project, with the goal of creating a sound, visual, and light buffer between the highway and the proposed walking trails/campground. Even if the campground is not developed for many years, this will give plant material an opportunity to grow enough to help block noise and light.

Goodhue County has utilized the soil stockpile from the Mill Towns State Trail construction, along with soil removed during routine county road ditch cleaning/maintenance, to create a berm along Highway 19. The berm follows the elevation of the highway, has been seeded to prevent erosion, and will later be planted with layers of trees and shrubs to create a visual and noise barrier between the park and Highway 19. Plantings and wood mulch may be installed using local funds or under a grant application sometime between 2024-2026.

Staff has prepared two different planting options for the berm (attached). Option 1 is a more "landscaped" look that includes grouping of plants to provide pockets of color and an overall tidier appearance. Option 2 is a more "natural" look that has the different species intermingled. Some pricing and plant sizing options have been prepared as a starting point:

Planting Sizes with Approximate Cost Increase Per Year

Planting Size	2021	2022	2023	2024	2025
Smaller Containers (#10 trees, #2 shrubs)	\$10,750.00	\$11,072.50	\$11,404.68	\$11,746.82	\$12,099.22
Larger Containers (#20 trees, #5 shrubs)	\$17,250.00	\$17,767.50	\$18,300.53	\$18,849.54	\$19,415.03

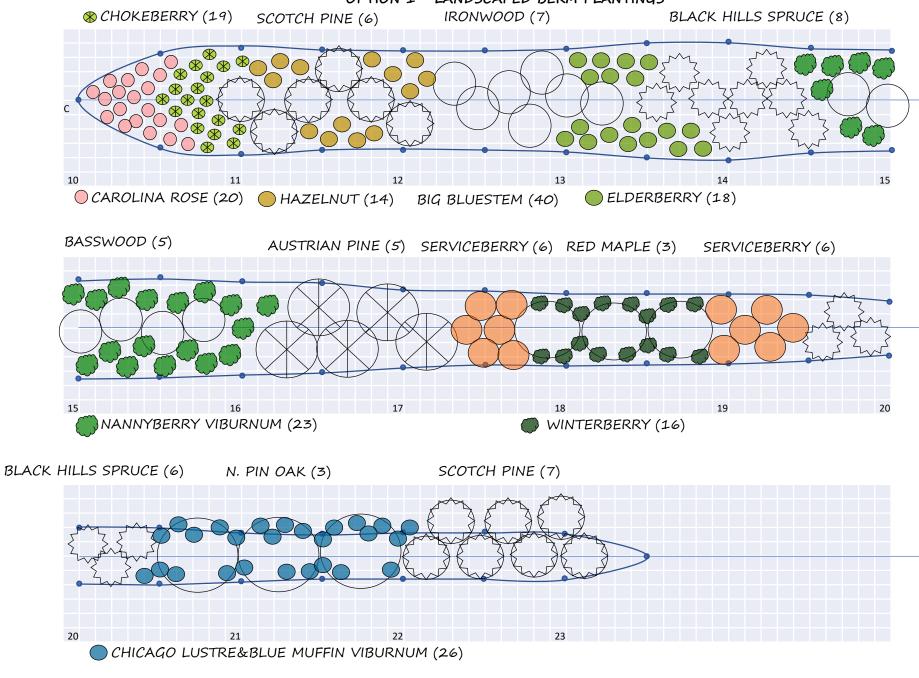
Mulching should require approximately 35-40 yards to mulch around each plant or approximately 900 yards to mulch the entire berm. A 45 yard load may run approximately \$1,000 delivered in 2023. 900 yards may run approximately \$18,675 delivered in 2023.

Recommendations

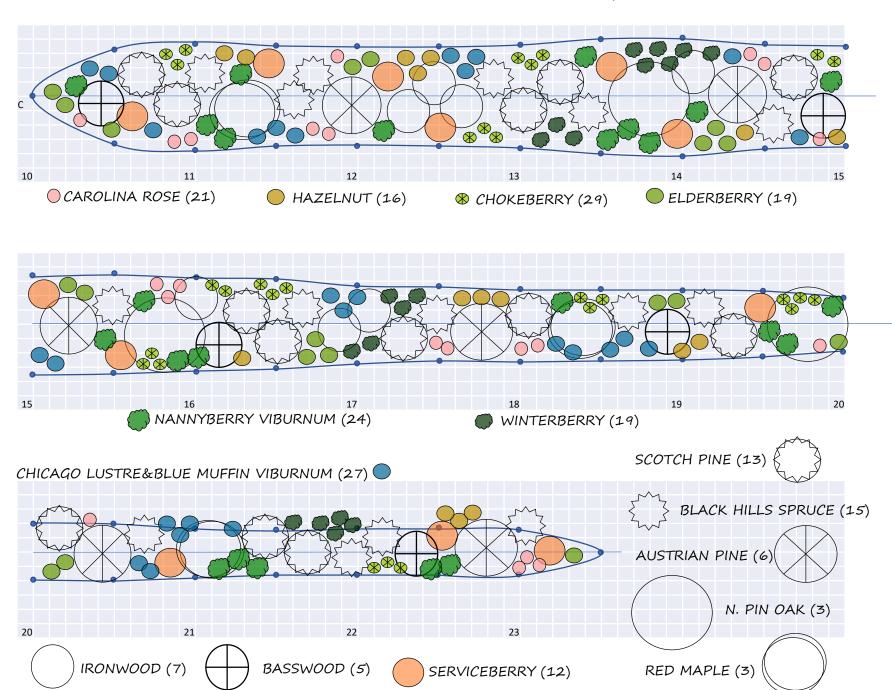
It is recommended that the Park Board:

- Choose a planting concept
- Identify any plant species they would like to add or change
- Identify desired sizes of plant material to install
- Set project budget goals and identify if this project should be submitted for a grant funding request.

OPTION 1 - LANDSCAPED BERM PLANTINGS



OPTION 2 - NATURALIZED BERM PLANTINGS







Public Works Director/County Engineer Goodhue County Public Works Department

> 2140 Pioneer Road Red Wing, MN 55066 Office (651) 385.3025

TO: Goodhue County Parks, Trails, and Recreation Advisory Board

FROM: Greg Isakson, Public Works Director

RE: 07 Oct 21 Park Board Meeting

Fishing at Lake Byllesby

Date: 01 Oct 21

<u>Summary</u>

It is requested that the Park Board discuss fishing at Lake Byllesby.

Background

Public Works staff has received input that quality fishing experiences on the lake are decreasing. As the park is primarily water activity based, staff is looking for input and direction on whether discussions with the DNR should be initiated regarding fish in Lake Byllesby.