

# PLAN COMMISSION

City of Kaukauna  
**Council Chambers**  
Municipal Services Building  
144 W. Second Street, Kaukauna



Thursday, December 05, 2024 at 4:00 PM

## AGENDA

### In-Person in Common Council Chambers, City of Kaukauna

1. Roll Call.
2. Approval of Minutes.
  - [a.](#) Approve Minutes from November 21, 2024 Meeting
3. Old Business.
4. New Business.
  - [a.](#) Site Plan Review-1800 Crooks Ave
  - [b.](#) Park Bench Donation- Haen
5. Other Business.
6. Adjourn.

## NOTICES

**IF REQUESTED THREE (3) DAYS PRIOR TO THE MEETING, A SIGN LANGUAGE INTERPRETER WILL BE MADE AVAILABLE AT NO CHARGE.**



**PLAN COMMISSION**

City of Kaukauna

**Council Chambers**

Municipal Services Building

144 W. Second Street, Kaukauna



Thursday, November 21, 2024 at 4:00 PM

**MINUTES****In-Person**

## 1. Roll Call

Members Present: Giovanna Feller, Mayor Tony Penterman, John Neumeier, Pennie Thiele, Brett Jensen, John Moore, Ken Schoenike

Members Absent: Michael Avanzi

Other(s) Present: Planning and Community Development Director Dave Kittel, Associate Planner Adrienne Nelson

Moore made a motion to excuse the absent member. Seconded by Neumeier. The motion passed unanimously.

## 2. Approval

## a. Approval of minutes from November 7, 2024 meeting.

Feller made a motion to approve the minutes from the November 7, 2024 meeting. Seconded by Moore. Motion passed unanimously.

## 3. Old business

## a. None

## 4. New business

## a. Special Exception Request – 205 Dodge Street

Director Kittel provided an overview of the special exception request at 205 Dodge Street for an event rental space. This rental space would be used for birthday parties, bridal showers, pop-up shop events, and more. The first floor of the building is currently underutilized, and the second floor is utilized for apartments. The property could handle this type of usage, but parking may be a point of concern. There is existing

city parking available, but uncertainties exist if this parking would be enough for the proposed event rental space.

Marcus Rennicke, the applicant, spoke on concerns regarding parking. He explained that the event rental space, referred to as “The Burrow”, would focus on intimate, closed family functions of about ten to thirty people. This small number would make parking less of a concern.

Commissioner Thiele and Mayor Penterman inquired further about what the first-floor space would look like as well as options for unloading items in the back of the building. Rennicke confirmed that people would be able to unload items in the back of the building, but they would not be able to park in the back.

Neumeier made a motion to schedule a public hearing for the December 19, 2024 Plan Commission meeting at 4:00 PM in the City Council Chambers and send notice to the newspaper and property owners within 100 feet of the property. Seconded by Thiele.

Moore Nay  
Neumeier Aye  
Feller Aye  
Jensen Aye  
Thiele Aye  
Schoenike Aye  
Penterman Aye

Motion passed.

b. Storage Container Draft Ordinance

Director Kittel introduced a draft for an ordinance update regarding portable storage units. This update would add a definition of a portable storage unit to the zoning code and clarify permanent usage of portable storage units in areas zoned commercial or industrial.



Moore made a motion to send the ordinance draft, with the correction of a typo, to the Legislative Committee and then on to Common Council with a recommendation to approve. Seconded by Neumeier. Motion passed unanimously.

c. Park Donation – Bay

Associate Planner Nelson went over a donation application from Tom Bay. The application was for a park bench to be installed at the corner of CE and Haas Road.

Neumeier made a motion to approve the park bench donation on the corner of CE and Haas Road in the standardized bench format and direct staff to work with the donor to finalize the location of the bench and the plaque description. Seconded by Moore. Motion passed unanimously.

d. Discussion Park Donation – DAR Monument

Director Kittel introduced a request by the Appleton Chapter of DAR (Daughters of the American Revolution) to create a parklet and update a monument dedicated to Capt. Hendrick Aupaumut. This update would beautify the area and bring recognition to a local historical figure. The plans tentatively include the creation of a site with minimal maintenance through the use of clover or native plants, the use of bench donations from DAR, and the donation of a new monument from DAR. The original plaque would be utilized.

5. Other Business

a. None

6. Adjourn

Schoenike made a motion to adjourn the meeting. Seconded by Thiele. Motion passed unanimously. Meeting adjourned at 4:30pm



# MEMO

## PLANNING AND COMMUNITY DEVELOPMENT

To: Plan Commission  
From: Dave Kittel, Director of Planning and Community Development  
Date: 11/27/2024  
Re: Site Plan Review- 1800 Crooks

This site plan is for the redevelopment of the existing site. Currently the old family video building is located at this property. A new development is proposed to raze the existing building and construct a new building with the end user being Taco Bell.

### Site Plan Review:

Site/Architectural: [17.32 \(10\)](#) *Supplementary District Regulations & applicable zoning*

The Building has a foot print of approximately 2,240 square feet and will be located on the northern portion of the property. The building layout and design is similar to other recently built Taco Bells. The property is laid out to accommodate 7 vehicles in the que line with the parking lot area able to handle addition vehicles to prevent the drive thru line from extending into a road.

Landscape: [17.52 Landscaping Requirements](#)

Landscaping Requirements are being met overall on site. Due to a utility easement along Crooks it is not reasonable to plant any additional trees along Crooks. The remaining portions of the property are compliant with the Landscaping Regulations.

### Lighting:

The max Foot Candle at the property line being 0.4 except in the area near the dumpster enclosure which is connected to an entry point to the property to the north. No lighting is directly focused outside of the property.

Stormwater: [22 Stormwater Management](#)

The developer will work with Engineering Department to complete Erosion Control and Stormwater Management permitting.

Ingress/Egress:

The property has a driveway on 18<sup>th</sup> street, Lehrer Ln and Crooks Ave (Hwy 55). A que line of 7 vehicles is set up with additional vehicles able to line up in the parking lot as well. A formal ingress egress easement has been requested by staff on the access point on Lehrer Ln to ensure there are no future issues and account for the Dumpster enclosure doors swinging into this area and needing some paving improvements into this area.

*Public Safety:*

The site plan has been shared with Police and Fire with not concerns presented from either department.

*Façade: [17.53 Façade Standards](#)*

The Façade as proposed would match with the surrounding properties and use a cement fiber board type material which has been allowed previously by the Plan Commission to meet the requirements of the Façade Standards.

**Staff Recommendation:**

Approve the site plan for the development with below Conditions:

- Prior to issuance of building permits, must obtain Stormwater and Erosion Control permits from Engineering Department
- Prior to issuance of building permits an ingress egress easement must be shown for the access on Lehrer Ln to address the pavement upgrades, access and dumpster enclosure doors swinging over the property line.





## SITE PLAN REVIEW APPLICATION

PROPERTY OWNER	APPLICANT (IF DIFFERENT PARTY THAN OWNER)
Name: Kathleen Knox Hoogland Living Trust	Name: Pacific Bells Contact: Kari Keller
Mailing Address: 2701 W Lawrence Ave, Ste A Springfield, IL 62704	Mailing Address: 111 W 39th St Vancouver, WA 98660
Phone: 480.313.0814	Phone: 714-724-9415
Email: daynon.kirby@legacypro.com	Email: kkeller@anchorpointmg.com

PROPERTY INFORMATION	
Described the Proposed Project in Detail:  Taco Bell - quick serve restaurant with drive-thru	
Property Parcel (#): 324047300	
Site Address/Location: 1800 Crooks Ave	
Current Zoning and Use: CHD-Commercial Highway - Family Video	
Proposed Zoning and Use: CHD-Commercial Highway - Taco Bell	
Existing Gross Floor Area of Building: 6,021 S.F.	Proposed Gross Floor Area of Building: 2,241 S.F.
Existing Building Height: 21.6'	Proposed Building Height: 23'
Existing Number of Off-Street Parking Spaces: 41	Proposed Number of Off-Street Parking Spaces: 34 (2 H.C. accessible)
Existing Impervious Surface Coverage Percentage: 78.8%	Proposed Impervious Surface Coverage Percentage: 67.9%

I certify that the attached drawings are, to the best of my knowledge, complete and drawn in accordance with all City of Kaukauna codes.

Owner/Agent Signature: Kari Keller

Digitally signed by Kari Keller  
DN: C=US, E=KKeller@pacificbells.com, O=Pacific Bells, CN=Kari Keller  
Date: 2024.11.19 12:39:18-0800

Owner/Agent Name (printed): Kari Keller

## SITE PLAN REVIEW PROCEDURE

The Plan Review process is required for all new commercial, industrial or multifamily buildings, and building expansions/additions or structures.

Early in the process, consult the Site Application Checklist (below) for a complete list of plan requirements and contact staff in the Planning and Community Development Department for initial direction and assistance. In addition, it is your responsibility to notify utility companies regarding your proposed development.

Completed Site Plans must be submitted 14 business days prior to the intended Plan Commission meeting. Those plans will be distributed amongst various City departments for an initial review. After review, questions, comments, and requested revisions will be returned to the applicant in advance of the Plan Commission meeting.

## SITE PLAN CHECKLIST

- ✓ Completed Site Plan application
- ✓ Completed [Erosion Control and Stormwater Management Permit application](#) and necessary fees
- ✓ Calculations for sanitary sewer and water
- ✓ Calculations for storm sewer design
- ✓ Site Plan set to include:
  - Site Plan layout and streets, including designated fire lanes
  - Utilities, grading, and drainage plan
  - Erosion control plan
  - Landscape and lighting plan
  - Architectural elevation and construction details
  - Floor plan set
  - Any other plans or information deemed necessary by the Planning and Community Development

## SITE PLAN SUBMISSION

1. Email to Lily Paul - [lpaul@kaukauna-wi.org](mailto:lpaul@kaukauna-wi.org)
2. In-person drop off - City of Kaukauna, Attn: Lily Paul, 144 W. 2nd Street, Kaukauna, WI 54130



# NEW BUILDING FOR: PACIFIC BELLS, LLC

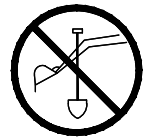
# KAUKAUNA, WI

## PROJECT INFORMATION

SITE INFORMATION:			
A PARCEL OF LAND BEING PART OF PARCEL "A" AND "B", OUTAGAMIE COUNTY CERTIFIED SURVEY MAP NO. 68, RECORDED IN VOLUME 1 OF CERTIFIED SURVEY MAPS, PAGE 68, OUTAGAMIE COUNTY RECORDS, ORIGINALLY BEING A PART OF SUB-LOT "A" OF GOVERNMENT LOT FIVE (5)			
APN: 324047300			
PROPERTY AREA: 29,875 S.F. (0.686 ACRES)			
EXISTING ZONING: CHD (COMMERCIAL HIGHWAY DISTRICT)			
PROPOSED ZONING: CHD (COMMERCIAL HIGHWAY DISTRICT)			
PROPOSED USE: QUICK SERVE RESTAURANT W/ DRIVE-THRU			
AREA OF SITE DISTURBANCE: 22,468 (0.51 ACRES)			
AREA OF IMPERVIOUS SURFACE DISTURBANCE: 19,159 S.F. (0.44 ACRES)			
SETBACKS: BUILDING: FRONT (WEST, NORTH, EAST) = 25' SIDE (SOUTH) = 10'			
PAVEMENT: FRONT (WEST, NORTH, EAST) = 0' SIDE (SOUTH) = 0'			
BUFFERYARDS: FRONT (WEST, NORTH, EAST) = 0' SIDE (SOUTH) = 0'			
PROPOSED BUILDING HEIGHT: 23' (MAX. HEIGHT ALLOWED: 56' OR FOUR STORIES)			
PARKING REQUIRED: SUFFICIENT SUCH THAT NO PUBLIC STREET SHALL BE USED			
PARKING PROVIDED: 35 SPACES (2 H.C. ACCESSIBLE)			
HANDICAP STALLS REQUIRED: 2, HANDICAP STALLS PROVIDED: 2			
MAXIMUM LOT COVERAGE - BUILDING ONLY: 35%			

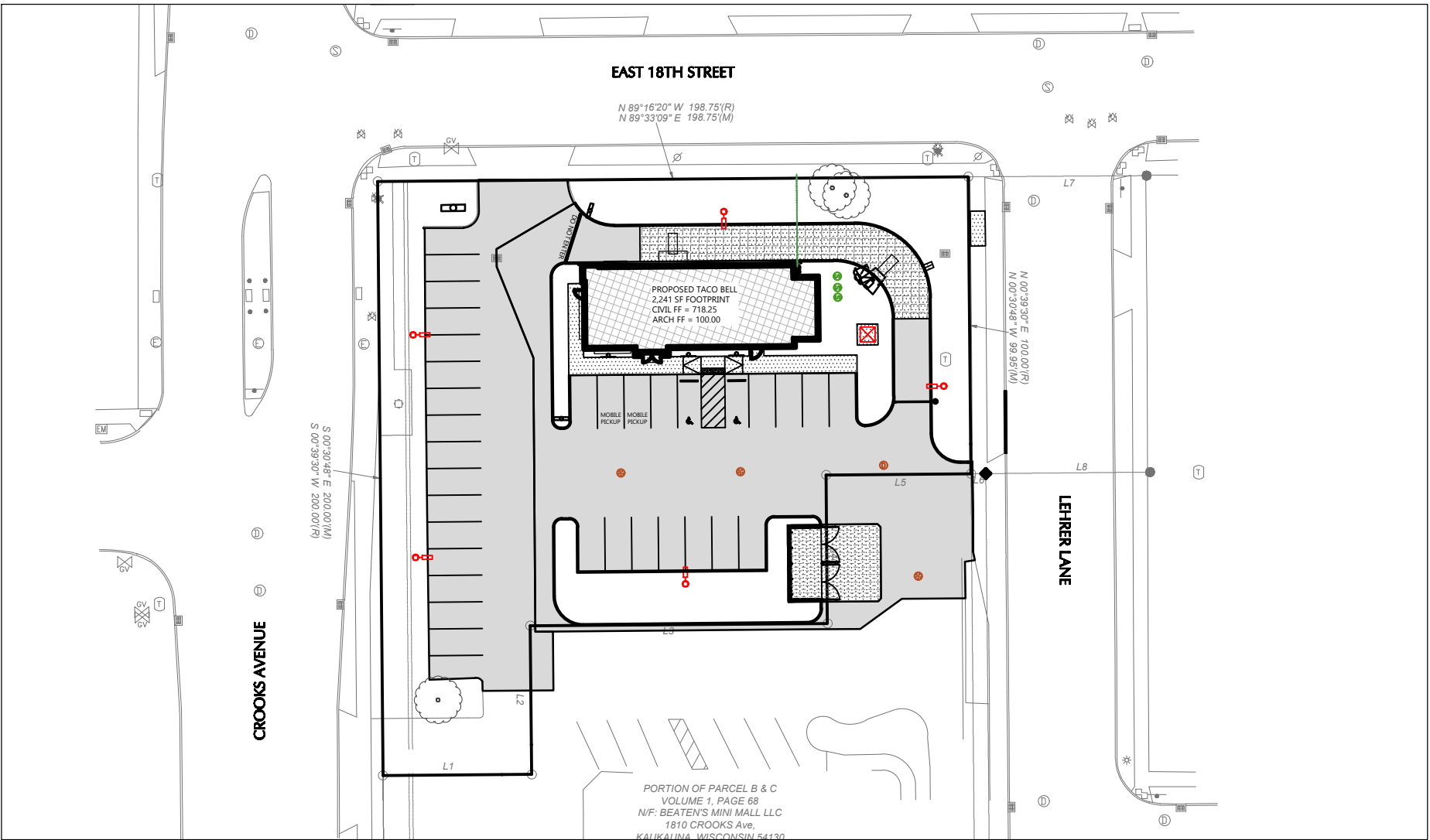
EXISTING SITE DATA			
BUILDING FLOOR AREA	0.14	6,021	20.2%
PAVEMENT (ASP. & CONC.)	0.40	17,508	58.6%
TOTAL IMPERVIOUS	0.54	23,529	78.8%
LANDSCAPE/ OPEN SPACE	0.15	6,346	21.2%
PROJECT SITE	0.69	29,875	100.0%

PROPOSED SITE DATA			
BUILDING FLOOR AREA	0.05	2,241	7.5%
PAVEMENT (ASP. & CONC.)	0.41	18,032	60.4%
TOTAL IMPERVIOUS	0.47	20,273	67.9%
LANDSCAPE/ OPEN SPACE	0.22	9,602	32.1%
PROJECT SITE	0.69	29,875	100.0%



TO OBTAIN LOCATION OF PARTICIPANTS' UNDERGROUND FACILITIES BEFORE YOU DIG IN WISCONSIN  
CALL DIGGERS HOTLINE  
1-800-242-8511  
TOLL FREE TELEFAX (414) 259-0947  
TDD (FOR THE HEARING IMPAIRED)  
1-800 542-2289  
WISCONSIN STATUTE 182.0175 (1974)  
REQUIRES MINIMUM OF 3 WORK DAYS NOTICE BEFORE YOU EXCAVATE

**BENCHMARK NOTE:**  
BENCHMARKS SHOWN ON THIS PLAN ARE ON NAVD 88 DATUM.

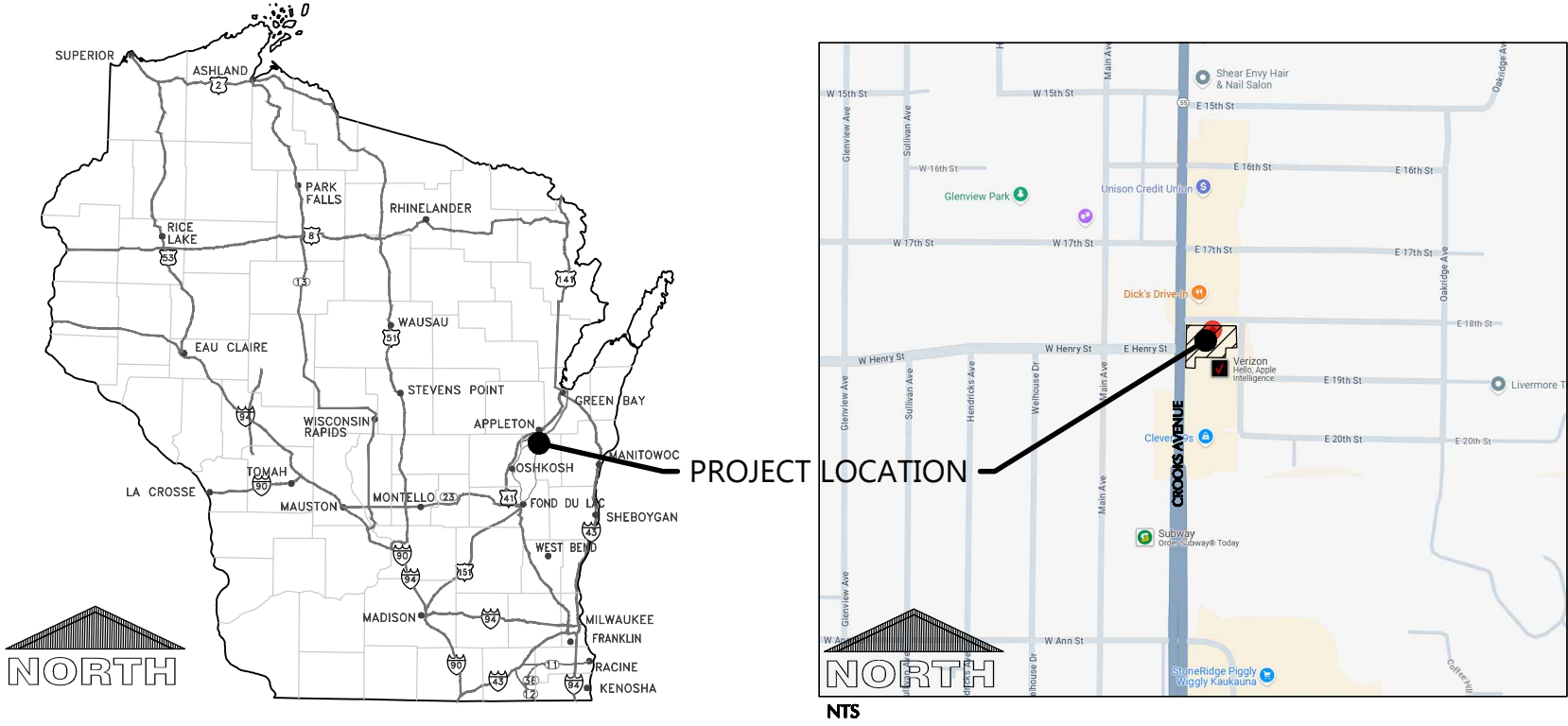


**SITE PLAN OVERVIEW**  
SCALE: 1" = 50'  
50' 0 50' 100'

## PROJECT CONTACTS

<b>OWNER INFORMATION:</b> ANCHOR POINT MANAGEMENT, LLC KARI KELLER 111 W. 39TH STREET VANCOUVER, WA 98660 Phone: (714) 724-9415 Email: KKeller@anchorpointmg.com	<b>CIVIL:</b> GRANT DUCHAC, P.E. Phone: (920) 926-9800 E-mail: grant.duchac@excelengineer.com	<b>CITY PLANNER:</b> DAVID KITTEL Phone: (920) 766-6370 E-mail: dkittel@kaukauna.gov	<b>CITY ENGINEER/DIRECTOR OF PUBLIC WORKS:</b> JOHN NEUMEIER Phone: (920) 766-6305 E-mail: jneumeier@kaukauna.gov	<b>CITY FIRE CHIEF:</b> JAKE CARREL Phone: (920) 766-6320 ext. 2	<b>CITY BUILDING INSPECTOR:</b> BRETT JENSEN Phone: (920) 766-6325 E-mail: buildinginspector@kaukauna.gov
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## LOCATION MAP



## PROJECT NOTES

### GENERAL PROJECT NOTES

- ALL DRIVEWAYS AND CURB CUTS TO BE CONSTRUCTED ACCORDING TO LOCAL ORDINANCES. CONTRACTOR TO OBTAIN ALL NECESSARY PERMITS.
- THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL WORK IN ROW PERMITS.

## SHEET INDEX

SHEETS BELOW INTENDED TO BE PRINTED IN: **COLOR**. REFER TO DIGITAL FORMAT DRAWINGS IF PRINTED GRAYSCALE TO ENSURE SCOPE CLARITY.

NUMBER	SHEET NAME / DESCRIPTION
C0.1	CIVIL COVER SHEET
C0.2	CIVIL SPECIFICATIONS
C1.0	CIVIL EXISTING SITE AND DEMOLITION PLAN
C1.1	CIVIL SITE PLAN
C1.2	CIVIL GRADING AND EROSION CONTROL PLAN
C1.3	CIVIL UTILITY PLAN
C1.4	CIVIL LANDSCAPE AND RESTORATION PLAN
C2.0	CIVIL DETAILS
C2.1	CIVIL DETAILS
C2.2	CIVIL DETAILS
C3.1	CIVIL SITE PHOTOMETRIC PLAN & DETAILS

## LEGEND

NOTE: ALL SYMBOLS SHOWN MAY NOT APPEAR ON DRAWINGS.

SYM.	IDENTIFICATION	SYM.	IDENTIFICATION
SPOT ELEVATIONS			
• [000.00]	PROPOSED SPOT ELEVATIONS (FLOW LINE OF CURB UNLESS OTHERWISE SPECIFIED)	[000.00]TC [000.00]FL	PROPOSED SPOT ELEVATIONS (TOP OF CURB, FLOWLINE OF CURB)
• [000.00]EG	EXISTING GRADE SPOT ELEVATIONS		
[000.00]BG [000.00]FG	PROPOSED SPOT ELEVATIONS (REFERENCE R-WALL DETAIL) BG-FINISHED SURFACE GRADE AT BACK OF WALL FG-FINISHED SURFACE GRADE AT FRONT OF WALL	[000.00]TW [000.00]BW	PROPOSED SPOT ELEVATIONS (TOP OF WALK, BOTTOM OF WALK @ FLOWLINE)
EXISTING SITE SYMBOLS			
—	EXISTING SIGN	⊙	EXISTING UTILITY POLE
♿	EXISTING HANDICAP PARKING STALL	⊙→	EXISTING UTILITY POLE WITH GUY WIRE
⊗	EXISTING WATER VALVE IN BOX	○—○	EXISTING STREET LIGHT
⊗	EXISTING WATER VALVE IN MANHOLE	⊠	EXISTING TELEPHONE PEDESTAL
✕	EXISTING WATER SERVICE VALVE	⊠	EXISTING ELECTRIC PEDESTAL
⊗	EXISTING WELL	⊠	EXISTING ELECTRIC BOX
⊗	EXISTING STORM CATCH BASIN	⬅	EXISTING FLOOD LIGHT
⊠	EXISTING STORM CURB INLET	⊠	EXISTING TELEPHONE MANHOLE
⊠	EXISTING SQUARE CATCH BASIN	⊠	EXISTING CABLE TV PEDESTAL
☆	EXISTING LIGHT POLE	⊠	EXISTING GAS VALVE
■	1-1/4" REBAR SET WEIGHING 4.30 LB/FT.	⊠	EXISTING HEDGE
●	3/4" REBAR SET WEIGHING 1.50 LB/FT.	⊠	EXISTING WOODED AREA
□	1-1/4" REBAR FOUND	⊠	EXISTING MARSH AREA
○	3/4" REBAR FOUND	⊠	EXISTING DECIDUOUS TREE WITH TRUNK DIAMETER
⊗	2" IRON PIPE FOUND	⊠	EXISTING CONIFEROUS TREE
▲	1" IRON PIPE FOUND	⊠	EXISTING SHRUB
⊠	SECTION CORNER	⊠	EXISTING STUMP
PROPOSED SITE SYMBOLS			
—	PROPOSED SIGN	⊠	PROPOSED STORM FIELD INLET - ST FI
♿	PROPOSED HANDICAP PARKING STALL	⊠	PROPOSED LIGHT POLE
⊗	PROPOSED WATER VALVE IN BOX	→	PROPOSED DRAINAGE FLOW
⊗	PROPOSED WATER VALVE IN MANHOLE	→	PROPOSED APRON END SECTION
✕	PROPOSED WATER SERVICE VALVE	⊠	SOIL BORING
⊗	PROPOSED WELL	⊠	CENTER LINE
⊗	PROPOSED STORM CATCH BASIN - ST CB	⊠	PROPOSED CLEANOUT
⊠	PROPOSED STORM CURB INLET - ST CI	⊠	PROPOSED DOWNSPOUT TO GRADE
		⊠	PROPOSED DOWNSPOUT TO RISER
EXISTING LINETYPES			
—	EXISTING CHAINLINK FENCE	—	EXISTING POLISH SEWER AND MANHOLE
—	EXISTING WOOD FENCE	—	EXISTING PROCESS SEWER AND MANHOLE
—	EXISTING BARBED WIRE FENCE	—	EXISTING CLEAR WATER LINE
—	EXISTING CURB AND GUTTER	—	EXISTING UNDERGROUND FIBER OPTIC LINE
—	EXISTING GUARD RAIL	—	EXISTING UNDERGROUND ELECTRIC CABLE
—	EXISTING GROUND CONTOUR	—	EXISTING UNDERGROUND TELEPHONE CABLE
—	EXISTING STORM SEWER AND MANHOLE	—	EXISTING UNDERGROUND GAS LINE
—	EXISTING SANITARY SEWER AND MANHOLE	—	EXISTING OVERHEAD UTILITY LINE
—	EXISTING WATER LINE AND HYDRANT	—	RAILROAD TRACKS
—	INTERIOR PROPERTY LINE	—	RIGHT-OF-WAY LINE
PROPOSED LINETYPES			
—	PROPOSED CHAINLINK FENCE	—	PROPOSED POLISH SEWER AND MANHOLE
—	PROPOSED WOOD FENCE	—	PROPOSED PROCESS SEWER AND MANHOLE
—	PROPOSED BARBED WIRE FENCE	—	PROPOSED CLEAR WATER LINE
—	PROPOSED CURB AND GUTTER	—	PROPOSED UNDERGROUND FIBER OPTIC LINE
—	PROPOSED GUARD RAIL	—	PROPOSED UNDERGROUND ELECTRIC CABLE
—	PROPOSED GROUND CONTOUR	—	PROPOSED UNDERGROUND TELEPHONE CABLE
—	PROPOSED STORM SEWER AND MANHOLE - ST MH	—	PROPOSED UNDERGROUND GAS LINE
—	PROPOSED SANITARY SEWER AND MANHOLE - SAN MH	—	PROPOSED OVERHEAD UTILITY LINE
—	PROPOSED WATER LINE AND HYDRANT	—	MATCHLINE
—	PROPOSED PROPERTY LINE	—	GRADING/SEEDING LIMITS

CAUTION: IF THIS SHEET IS NOT 22"x34" IT IS A REDUCED P

Item 4.a.



**Excel**  
Always a Better Plan  
100 Camelot Drive  
Fond du Lac, WI 54935  
920-926-9800  
excelengineer.com



**PACIFIC BELLS, LLC**  
111 W. 39TH STREET  
VANCOUVER, WA 98660

NEW BUILDING FOR:


**PACIFIC BELLS, LLC**

1800 CROOKS AVENUE • KAUKAUNA, WI 54130

	DATE	REMARKS
	11/20/2024	PRELIM

PROFESSIONAL SEAL

JOB NUMBER  
240296000



ENDEAVOR 2.0  
CIVIL COVER SHEET

C0.1



# CIVIL SPECIFICATIONS

CAUTION: IF THIS SHEET IS NOT 22"x34" IT IS A REDUCED P

Item 4-a.



100 Camelot Drive  
Fond du Lac, WI 54935  
920-926-9800  
excelengineer.com



NEW BUILDING FOR:  
**PACIFIC BELLS, LLC**  
1800 CROOKS AVENUE • KAUKAUNA, WI 54130

	DATE	REMARKS
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PROFESSIONAL SEAL

JOB NUMBER

240296000



ENDEAVOR 2.0  
CIVIL  
SPECIFICATIONS  
SHEET

C0.2

2024 © EXCEL ENGINEERING, INC.

## DIVISION 31 EARTH WORK

### 31 10 00 SITE CLEARING (DEMOLITION)

- CONTRACTOR SHALL CALL DIGGER'S HOT LINE AND CONDUCT A PRIVATE UTILITY LOCATE AS REQUIRED TO ENSURE THAT ALL UTILITIES HAVE BEEN LOCATED BEFORE STARTING SITE DEMOLITION. DESIGN ENGINEER SHALL BE NOTIFIED OF ANY DISCREPANCIES BETWEEN PLAN AND FIELD CONDITIONS PRIOR TO CONSTRUCTION.
- CONTRACTOR TO FIELD TELEVISOR TO FIELD VERIFY EXISTING SITE CONDITIONS PRIOR TO BIDDING. CONTRACTOR SHALL REMOVE, REPLACE, OR DEMOLISH ALL ITEMS AS NEEDED DURING CONSTRUCTION.
- CONTRACTOR TO PROTECT EXISTING IMPROVEMENTS THAT ARE SCHEDULED TO REMAIN. ANY DAMAGE TO EXISTING FACILITIES SHALL BE REPLACED AT CONTRACTORS EXPENSE.
- ALL CONCRETE NOTED TO BE REMOVED SHALL BE REMOVED TO THE NEAREST CONTROL JOINT.

### 31 20 00 EARTH MOVING

- CONTRACTOR SHALL CALL DIGGER'S HOT LINE AND CONDUCT A PRIVATE UTILITY LOCATE AS REQUIRED TO ENSURE THAT ALL UTILITIES HAVE BEEN LOCATED BEFORE STARTING EXCAVATION. DESIGN ENGINEER SHALL BE NOTIFIED OF ANY DISCREPANCIES BETWEEN PLAN AND FIELD CONDITIONS PRIOR TO CONSTRUCTION.
- PROVIDE ALL LABOR, MATERIALS AND EQUIPMENT FOR ALL EXCAVATION, GRADING, FILL, AND BACKFILL WORK AS REQUIRED TO COMPLETE THE GENERAL CONSTRUCTION WORK. ALL EXCAVATION AND BACKFILL FOR ELECTRICALS AND MECHANICALS ARE THE RESPONSIBILITY OF THE RESPECTIVE CONTRACTOR UNLESS OTHERWISE SPECIFIED IN THE BID DOCUMENTS.
- ALL ORGANIC TOPSOIL INSIDE THE BUILDING AREA, UNDER PAVED AREAS, AND AT SITE FILL AREAS SHALL BE REMOVED. PROOF ROLL SUBGRADE BEFORE PLACING FILL WITH HEAVY PNEUMATIC-TIRED EQUIPMENT, SUCH AS A FULLY-LOADED TANDEM AXLE DUMP TRUCK, TO IDENTIFY SOFT POCKETS AND AREAS OF EXCESS YIELDING. CONTRACTOR SHALL VERIFY TOPSOIL DEPTHS PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL REVIEW AND FOLLOW THE RECOMMENDATIONS OF MAXIMUM DRY DENSITY REPORT AND ACCOUNT FOR EXISTING CONDITIONS PRIOR TO SUBMITTING BID FOR THE PROJECT. EXCESS MATERIALS SHALL BE REMOVED FROM THE SITE UNLESS OTHERWISE DIRECTED IN THE PLANS OR BY LOCAL ZONING REQUIREMENTS.
- PLACE AND COMPACT FILL MATERIAL IN LAYERS TO REQUIRED ELEVATIONS. UNIFORMLY MOISTEN OR AERATE SUBGRADE AND EACH SUBSEQUENT FILL OR BACKFILL LAYER BEFORE COMPACTION AS RECOMMENDED TO ACHIEVE SPECIFIED DRY DENSITY. REMOVE AND REPLACE, OR SCARIFY AND AIR DRY, OTHERWISE SATISFACTORY SOIL MATERIAL THAT IS TOO WET TO COMPACT TO SPECIFIED DRY DENSITY.
- PLACE BACKFILL AND FILL MATERIALS IN LAYERS NOT MORE THAN 8" IN LOOSE DEPTH FOR MATERIAL COMPACTED BY HEAVY COMPACTION EQUIPMENT, AND NOT MORE THAN 4" IN LOOSE DEPTH FOR MATERIAL COMPACTED BY HAND-OPERATED TAMPERS.
- COMPACT THE SOIL TO NOT LESS THAN THE FOLLOWING PERCENTAGES OF MAXIMUM DRY DENSITY ACCORDING TO ASTM D 698, STANDARD PROCTOR TEST. FILL MAY NOT BE PLACED ON FROZEN GROUND AND NO FROZEN MATERIALS MAY BE USED FOR BACKFILL. APPLY THE MORE STRINGENT REQUIREMENTS WHEN COMPARING BETWEEN THE FOLLOWING AND THE GEOTECHNICAL REPORT.
  - UNDER FOUNDATIONS - SUBGRADE, AND EACH LAYER OF BACKFILL OR FILL MATERIAL TO NOT LESS THAN 98 PERCENT.
  - UNDER INTERIOR SLAB-ON-GRADE WHERE GROUNDWATER IS MORE THAN 3 FEET BELOW THE SLAB - PLACE A DRAINAGE COURSE LAYER OF 3/4" CRUSHED STONE, WITH 5% TO 12% FINES, PER THICKNESS INDICATED ON FOUNDATION PLANS ON PREPARED SUBGRADE. COMPACT THE SUBGRADE AND DRAINAGE COURSE TO NOT LESS THAN 95 PERCENT.
  - UNDER INTERIOR SLAB-ON-GRADE WHERE GROUNDWATER IS WITHIN 3 FEET OF THE SLAB SURFACE - PLACE A DRAINAGE COURSE LAYER OF CLEAN 3/4" CRUSHED STONE, WITH NO MORE THAN 5% FINES, PER THICKNESS INDICATED ON FOUNDATION PLANS ON PREPARED SUBGRADE. COMPACT THE SUBGRADE AND DRAINAGE COURSE TO NOT LESS THAN 95 PERCENT.
  - UNDER EXTERIOR CONCRETE AND ASPHALT PAVEMENTS - COMPACT THE SUBGRADE AND EACH LAYER OF BACKFILL OR FILL MATERIAL TO NOT LESS THAN 95 PERCENT.
  - UNDER WALKWAYS - COMPACT SUBGRADE AND EACH LAYER OF BACKFILL OR FILL MATERIAL TO NOT LESS THAN 95 PERCENT.
  - UNDER LAWN OR UNPAVED AREAS - COMPACT SUBGRADE AND EACH LAYER OF BACKFILL OR FILL MATERIAL TO NOT LESS THAN 95 PERCENT.
- CONTRACTOR SHALL ENGAGE A QUALIFIED INDEPENDENT TESTING AND INSPECTING AGENCY TO PERFORM FIELD TESTS AND INSPECTIONS. CONTRACTOR SHALL PROVIDE DOCUMENTATION OF PASSING DENSITY TESTING AND PROOF-ROLLING TO ENGINEER UPON COMPLETION. IT IS SUGGESTED THAT THE GEOTECHNICAL FIRM USED TO PERFORM THE SUBSURFACE SOIL INVESTIGATION BE ENGAGED FOR THE FIELD QUALITY CONTROL TESTS. THE GEOTECHNICAL REPORT WAS PERFORMED BY PROFESSIONAL SERVICE INDUSTRIES, INC.
- ALLOW THE TESTING AGENCY TO TEST AND INSPECT SUBGRADES AND EACH FILL OR BACKFILL LAYER. PROCEED WITH SUBSEQUENT EARTHWORK ONLY AFTER TEST RESULTS FOR PREVIOUSLY COMPLETED WORK COMPLY WITH REQUIREMENTS. PROVIDE ONE TEST FOR EVERY 2000 SQUARE FEET OF PAVED AREA OR BUILDING SLAB, ONE TEST FOR EACH SPREAD FOOTING, AND ONE TEST FOR EVERY 50 LINEAR FEET OF WALL STRIP FOOTING.
- WHEN THE TESTING AGENCY REPORTS THAT SUBGRADES, FILLS, OR BACKFILLS HAVE NOT ACHIEVED DEGREE OF COMPACTION SPECIFIED, SCARIFY AND MOISTEN OR AERATE, OR REMOVE AND REPLACE SOIL TO DEPTH REQUIRED; RECOMPACT AND RETEST UNTIL SPECIFIED COMPACTION IS OBTAINED.
- THE BUILDING SITE SHALL BE GRADED TO PROVIDE DRAINAGE AWAY FROM THE BUILDING AS INDICATED ON THE PLANS. SITE EARTHWORK SHALL BE GRADED TO WITHIN 0.10' OF REQUIRED EARTHWORK ELEVATIONS ASSUMING POSITIVE DRAINAGE IS MAINTAINED IN ACCORDANCE WITH THE GRADING PLAN.

### 31 30 00 EROSION CONTROL

- THE GRADING PLAN REFLECTS LESS THAN 1 ACRE OF DISTURBED AREA. THE SITE IS THEREFORE EXEMPT FROM WISCONSIN DEPARTMENT OF NATURAL RESOURCES NR 216 NOTICE OF INTENT REQUIREMENTS. THE DESIGN ENGINEER SHALL PREPARE AN EROSION CONTROL PLAN TO MEET NR 151.105 CONSTRUCTION SITE PERFORMANCE STANDARDS FOR NON-PERMITTED SITES.
- EROSION AND SEDIMENT CONTROL IMPLEMENTED DURING CONSTRUCTION SHALL STRICTLY COMPLY WITH THE GUIDELINES AND REQUIREMENTS SET FORTH IN WISCONSIN ADMINISTRATIVE CODE (W.A.C.) NR 151. THE STATE OF WISCONSIN DEPARTMENT OF NATURAL RESOURCES RUNOFF MANAGEMENT PERFORMANCE STANDARDS, TECHNICAL STANDARDS PUBLISHED BY THE WISCONSIN DNR SHALL ALSO BE UTILIZED TO IMPLEMENT THE REQUIRED PERFORMANCE STANDARDS. THE METHOD AND TYPES OF EROSION CONTROL WILL BE DEPENDENT ON THE LOCATION AND TYPE OF WORK INVOLVED. ALL SEDIMENT CONTROL MEASURES SHALL BE ADJUSTED TO MEET FIELD CONDITIONS AT THE TIME OF CONSTRUCTION, AND INSTALLED PRIOR TO ANY GRADING OR DISTURBANCE OF EXISTING SURFACE MATERIAL. BELOW IS A LIST OF EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES TO ACHIEVE THE PERFORMANCE STANDARDS REQUIRED.
  - SILT FENCE SHALL BE PLACED ON SITE AT LOCATIONS SHOWN ON THE EROSION CONTROL PLAN. SILT FENCE SHALL ALSO BE PROVIDED AROUND THE PERIMETER OF ALL SOIL STOCKPILES THAT WILL EXIST FOR MORE THAN 7 DAYS. FOLLOW PROCEDURES FOUND IN WISCONSIN DNR TECHNICAL STANDARD 1056 (CURRENT EDITION).
  - DITCH CHECKS SHALL BE PROVIDED TO REDUCE THE VELOCITY OF WATER FLOWING IN DITCH BOTTOMS. PLACE AT LOCATIONS SHOWN ON THE EROSION CONTROL PLAN. FOLLOW PROCEDURES FOUND IN WISCONSIN DNR TECHNICAL STANDARD 1062 (CURRENT EDITION).
  - STONE TRACKING PADS AND TRACKOUT CONTROL PRACTICES SHALL BE PLACED AT ALL CONSTRUCTION SITE ENTRANCES AND SHALL BE INSTALLED PRIOR TO ANY TRAFFIC LEAVING THE CONSTRUCTION SITE. SEE THE EROSION CONTROL PLAN FOR

- LOCATIONS. THE AGGREGATE USED FOR THE STONE TRACKING PAD SHALL BE 3/8" TO 3/4" INCH CLEAR OR WASHED STONE AND SHALL BE PLACED IN A LAYER AT LEAST 12 INCHES THICK. THE STONE SHALL BE UNDERLAIN WITH A WISDOT TYPE R GEOTEXTILE FABRIC AS NEEDED. THE TRACKING PAD SHALL BE THE FULL WIDTH OF THE EGRESS POINT (12' MIN WIDTH) AND SHALL BE A MINIMUM OF 50 FEET LONG. SURFACE WATER MUST BE PREVENTED FROM PASSING THROUGH THE TRACKING PAD. OTHER TRACKOUT CONTROL PRACTICES INCLUDING STABILIZED WORK SURFACES, MANUFACTURED TRACKOUT CONTROL DEVICES, TIRE WASHING, AND STREET/PAVEMENT CLEANING SHALL BE IMPLEMENTED AS NECESSARY TO MITIGATE THE TRACKOUT OF SEDIMENT OFFSITE. FOLLOW PROCEDURES FOUND IN WISCONSIN DNR TECHNICAL STANDARD 1057 (CURRENT EDITION).
- STORM DRAIN INLET PROTECTION SHALL BE PROVIDED FOR ALL NEW AND DOWNSTREAM STORM CATCH BASINS AND CURB INLETS. TYPE OR C PROTECTION SHOULD BE PROVIDED AND SHALL BE IN CONFORMANCE WITH WISCONSIN DNR TECHNICAL STANDARD 1060 (CURRENT EDITION).
- DUST CONTROL MEASURES SHALL BE PROVIDED TO REDUCE OR PREVENT THE SURFACE AND AIR TRANSPORT OF DUST DURING CONSTRUCTION. CONTROL MEASURES INCLUDE APPLYING MULCH AND ESTABLISHING VEGETATION, WATER SPRAYING, SURFACE ROUGHENING, APPLYING POLYMERS, SPRAY-ON TACKIFIERS, CHLORIDES, AND BARRIERS. SOME SITES MAY REQUIRE AN APPROACH THAT UTILIZES A COMBINATION OF MEASURES FOR DUST CONTROL. FOLLOW PROCEDURES FOUND IN WISCONSIN DNR TECHNICAL STANDARD 1068 (CURRENT EDITION).
- THE USE, STORAGE, AND DISPOSAL OF CHEMICALS, CEMENT, AND OTHER COMPOUNDS AND MATERIALS USED ON SITE SHALL BE MANAGED DURING THE CONSTRUCTION PERIOD TO PREVENT THEIR TRANSPORT BY RUNOFF INTO WATERS OF THE STATE.
- CONTRACTOR SHALL PROVIDE AN OPEN AGGREGATE CONCRETE TRUCK WASHOUT AREA ON SITE. CONTRACTOR TO ENSURE THAT CONCRETE WASHOUT SHALL BE CONTAINED TO THIS DESIGNATED AREA AND NOT BE ALLOWED TO RUN INTO STORM INLETS OR INTO THE OVERLAND STORMWATER DRAINAGE SYSTEM. WASHOUT AREA SHALL BE REMOVED UPON COMPLETION OF CONSTRUCTION.
- TEMPORARY SITE RESTORATION SHALL TAKE PLACE IN DISTURBED AREAS THAT WILL NOT BE BROUGHT TO FINAL GRADE OR ON WHICH LAND DISTURBING ACTIVITIES WILL NOT BE PERFORMED FOR A PERIOD GREATER THAN 14 DAYS AND REQUIRES VEGETATIVE COVER FOR LESS THAN ONE YEAR. THE TEMPORARY SITE RESTORATION REQUIREMENT ALSO APPLIES TO SOIL STOCKPILES THAT EXIST FOR MORE THAN 7 DAYS. PERMANENT RESTORATION APPLIES TO AREAS WHERE PERENNIAL VEGETATIVE COVER IS NEEDED TO PERMANENTLY STABILIZE AREAS OF EXPOSED SOIL. PERMANENT STABILIZATION SHALL OCCUR WITHIN 3 WORKING DAYS OF FINAL GRADING. TOPSOIL, SEED, AND MULCH SHALL BE IN GENERAL CONFORMANCE WITH TECHNICAL STANDARDS 1058 AND 1059 AND SHALL MEET THE SPECIFICATIONS FOUND IN THE LANDSCAPING AND SITE STABILIZATION SECTION OF THIS CONSTRUCTION DOCUMENT. ANY SOIL EROSION THAT OCCURS AFTER FINAL GRADING AND/OR FINAL STABILIZATION MUST BE REPAIRED AND THE STABILIZATION WORK REDONE.
- IF SITE DEWATERING IS REQUIRED FOR PROPOSED CONSTRUCTION ACTIVITIES, ALL SEDIMENT LAIDEN WATER GENERATED DURING THE DEWATERING PROCESS SHALL BE TREATED TO REMOVE SEDIMENT PRIOR TO DISCHARGING OFF-SITE OR TO WATERS OF THE STATE. FOLLOW ALL PROCEDURES FOUND IN TECHNICAL STANDARD 1061.
- ALL OFF-SITE SEDIMENT DEPOSITS OCCURRING AS A RESULT OF CONSTRUCTION WORK OR A STORM EVENT SHALL BE CLEANED UP BY THE END OF EACH WORKING DAY. DUST CONTROL REQUIREMENTS SHALL BE FOLLOWED PER WJNR TECHNICAL STANDARD 1068 (CURRENT EDITION). FLUSHING SHALL NOT BE ALLOWED.
- ALL EROSION CONTROL DEVICES SHALL AT A MINIMUM BE INSPECTED EVERY 7 CALENDAR DAYS OR EVERY 14 DAYS AND WITHIN 24 HOURS OF THE END OF A RAIN EVENT OF 0.5" OR MORE. MAINTENANCE SHALL BE PERFORMED PER WISCONSIN ADMINISTRATIVE CODE (W.A.C.) NR 151. STORMWATER MANAGEMENT TECHNICAL STANDARD REQUIREMENTS.
- EROSION CONTROL MEASURES SHALL NOT BE REMOVED UNTIL THE AREA(S) SERVED HAVE ESTABLISHED VEGETATIVE COVER.
- THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL LOCAL EROSION CONTROL PERMITS.

## DIVISION 32 EXTERIOR IMPROVEMENTS

### 32 10 00 AGGREGATE BASE & ASPHALT PAVEMENT

- CONTRACTOR TO PROVIDE COMPACTED AGGREGATE BASE AND HOT MIX ASPHALT PAVEMENT WHERE INDICATED ON THE PLANS. ALL AGGREGATE AND HOT MIX SHALL COMPLY WITH SECTION 305 OF THE WISCONSIN STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION. PROVIDE HOT MIX ASPHALT MIXTURE TYPES PER SECTION 406 OF THE WISCONSIN STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION. CONTRACTOR SHALL OBTAIN AND REVIEW SOILS REPORT FOR RECOMMENDATIONS FOR GEO-GRID / GEOTEXTILE BELOW CRUSHED AGGREGATE (IF APPLICABLE). CONTRACTOR TO PROVIDE AGGREGATE BASE AND HOT MIX ASPHALT PAVEMENT TYPES AND DEPTHS AS INDICATED BELOW:

STANDARD ASPHALT PAVING SECTION  
1'-3/4" SURFACE COURSE (5 LT 58-28S)  
WISDOT 455.2.5 TACK COAT (STAGED PAVING)  
1'-3/4" BINDER COURSE (4 LT 58-28S)  
9" OF 1'-1/4" CRUSHED AGGREGATE

HEAVY ASPHALT PAVING SECTION  
2" SURFACE COURSE (5 LT 58-28S)  
WISDOT 455.2.5 TACK COAT (STAGED PAVING)  
1'-3/4" BINDER COURSE (4 LT 58-28S)  
12" OF 1'-1/4" CRUSHED AGGREGATE
- CONTRACTOR TO COMPACT THE AGGREGATE BASE, ASPHALT BINDER COURSE, AND ASPHALT SURFACE COURSE TO AN AVERAGE DENSITY PER WISCONSIN STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION. ALL ASPHALT PAVEMENT AREAS SHALL BE PAVED TO WITHIN 0.05' OF DESIGN SURFACE GRADES WITH POSITIVE DRAINAGE BEING MAINTAINED IN ACCORDANCE WITH DESIGN PLANS. A MINIMUM OF 1.5% SLOPE SHALL BE MAINTAINED IN ALL ASPHALT PAVEMENT AREA.
- HOT MIX ASPHALT CONSTRUCTION TO BE PROVIDED PER THE FOLLOWING PERMITS: REQUIREMENTS OF GEOTECHNICAL REPORT OR CONSTRUCTION DOCUMENTS.
- CONTRACTOR TO PROVIDE 4" WIDE YELLOW PAINTED STRIPING FOR PARKING STALLS, TRAFFIC LANES, AND NO PARKING AREAS. YELLOW PAINT MARKINGS SHALL ALSO BE PROVIDED FOR H.C. ACCESSIBLE SYMBOLS, TRAFFIC ARROWS, AND TRAFFIC MESSAGES.

### 32 20 00 CONCRETE AND AGGREGATE BASE

- CONTRACTOR TO PROVIDE CRUSHED AGGREGATE BASE AND CONCRETE WHERE INDICATED ON THE PLANS.
- ALL AGGREGATE PROVIDED MUST COMPLY WITH SECTION 305 OF THE WISCONSIN STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION. ALL AGGREGATE PLACED MUST BE COMPACTED TO AN AVERAGE DENSITY PER WISCONSIN STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION.
- DESIGN AND CONSTRUCTION OF ALL CAST-IN-PLACE EXTERIOR CONCRETE FLAT WORK SHALL CONFORM TO ACI 308R-08 & ACI 318-08.
- EXTERIOR CONCRETE FLAT WORK CONSTRUCTION TO BE PROVIDED PER MORE STRINGENT REQUIREMENTS OF THE GEOTECHNICAL REPORT OR THIS SPECIFICATION. CONCRETE FLAT WORK CONSTRUCTION IS AS FOLLOWS:
  - SIDEWALK CONCRETE - 4" OF CONCRETE OVER 6" OF 3/4" CRUSHED AGGREGATE BASE. CONTRACTION JOINTS SHALL CONSIST OF 1/8" WIDE BY 1" DEEP TOOLED JOINTS WHERE INDICATED ON THE PLANS.
  - DUMPSTER PAD/APRON CONCRETE - 8" OF CONCRETE OVER 6" OF AGGREGATE BASE.
    - CONCRETE SHALL BE STEEL REINFORCED WITH THE FOLLOWING AND PLACED IN THE UPPER 1/3 TO 1/2 OF THE SLAB:
      - TIE BARS AT ALL CONTRACTION JOINTS OF THE CONCRETE. TIE BARS SHALL BE #4 REBAR 30" LONG PLACED AT 30" O.C.
    - DUMPSTER PAD CONCRETE JOINTING SHALL BE AS FOLLOWS:
      - CONTRACTION SAWCUT JOINT - CONTRACTOR SHALL PROVIDE A SAWCUT JOINT AT MAXIMUM SPACING OF 15' ON CENTER. SAWCUT SHALL BE 2" IN DEPTH.
      - TYPICAL POUR CONTROL JOINT - POUR CONTROL JOINT SHALL BE PROVIDED WITH 1'-1/4" DIAMETER BY 20" LONG SMOOTH DOWEL PLACED 12" O.C. ONE HALF OF THE DOWEL SHALL BE GREASED. GREENSTREAK 9" SPEED DOWEL TUBES SHALL BE USED.
    - HEAVY DUTY/DRIVE-THRU CONCRETE - 7" OF CONCRETE OVER 6" OF 3/4" CRUSHED AGGREGATE. CONCRETE SHALL BE REINFORCED WITH #3 REBARS ON CHAIRS AT 3' O.C. REBAR SHALL BE PLACED PRIOR TO THE UPPER 1/3 TO 1/2 OF THE SLAB. CONTRACTION JOINTS SHALL BE SAWCUT 1.75" IN DEPTH AND BE SPACED A MAXIMUM OF 15' ON CENTER.

### E. DESIGN MIXES SHALL BE IN ACCORDANCE WITH ASTM C94

- STRENGTH TO BE MINIMUM OF 4500 PSI AT 28 DAYS FOR EXTERIOR CONCRETE.
- MAXIMUM WATER/CEMENT RATIO SHALL BE 0.45.
- SLUMP SHALL NOT EXCEED 4" FOR EXTERIOR CONCRETE FLAT WORK
- SLUMP SHALL BE 2.5" OR LESS FOR SLIP-FORMED CURB AND GUTTER
- SLUMP SHALL BE BETWEEN 1.5" TO 3" FOR NON SLIP-FORMED CURB AND GUTTER.
- ALL EXTERIOR CONCRETE SHALL BE AIR ENTRAINED WITH 4% TO 7% AIR CONTENT. NO OTHER ADMIXTURES SHALL BE USED WITHOUT APPROVAL OF EXCEL ENGINEERING, INC. CALCIUM CHLORIDE SHALL NOT BE USED.
- MAXIMUM AGGREGATE SIZE FOR ALL EXTERIOR CONCRETE SHALL BE 0.75 INCHES.
- STORM DRAIN INLET PROTECTION SHALL BE PROVIDED WITH CONTRACTOR REQUIREING PAD. PADS SHALL HAVE FIBERMESH 300 FIBERS AT A RATE OF 1.5 LBS/CU. YD. OR 6 X 6-WT 4 X W/14 WELDED WIRE MESH WITH MINIMUM 1 INCH COVER. EQUIPMENT PADS SHALL BE 5.5 INCHES THICK WITH 1 INCH CHAMFER UNLESS SPECIFIED OTHERWISE. GREATER OR ADDITIONAL PAD REQUIREMENTS WITH RESPECTIVE CONTRACTOR.
- ALL CONCRETE FLAT WORK SURFACES AND CONCRETE CURB FLOWLINES SHALL BE CONSTRUCTED TO WITHIN 0.05' OF DESIGN SURFACE AND FLOWLINE GRADES. ASSUMING POSITIVE DRAINAGE IS MAINTAINED IN ACCORDANCE WITH THE DESIGN PLANS.
- CONCRETE FLAT WORK SHALL HAVE CONSTRUCTION JOINTS OR SAW CUT JOINTS PLACED AS INDICATED ON THE PLANS OR PER THIS SPECIFICATION. SAWCUTS SHALL BE DONE AS SOON AS POSSIBLE, BUT NO LATER THAN 24 HOURS AFTER CONCRETE IS PLACED. CONCRETE CURB AND GUTTER JOINTING SHALL BE PLACED EVERY 10' OR CLOSER (6' MIN.). IF CONCRETE PAVEMENT IS ADJACENT TO CONCRETE CURB, JOINTING IN THE PAVEMENT AND CURB SHALL ALIGN. ALL EXTERIOR CONCRETE SHALL HAVE A BROOM FINISH UNLESS NOTED OTHERWISE. A UNIFORM COAT OF A HIGH SOLIDS CURING COMPOUND MEETING ASTM C309 SHALL BE APPLIED TO ALL EXPOSED CONCRETE SURFACES. ALL CONCRETE IS TO BE CURED FOR 7 DAYS. EXTERIOR CONCRETE SHALL BE SEPARATED FROM BUILDINGS WITH CONTINUOUS 0.5 INCH FIBER EXPANSION JOINT AND/OR 0.25 INCH FIBER EXPANSION JOINT AT DECORATIVE MASONRY UNITS.
- ALL REINFORCING BARS SHALL BE ASTM A615 GRADE 60. THICKNESS OF CONCRETE COVER OVER REINFORCEMENT SHALL BE NOT LESS THAN 3" WHERE CONCRETE IS DEPOSITED AGAINST THE GROUND WITHOUT THE USE OF FORMS AND NOT LESS THAN 1.5" FOR UP TO #5 BARS AND 2" FOR #6 TO #10 BARS IN ALL OTHER LOCATIONS. ALL REINFORCING SHALL BE LAPED 48 DIAMETERS FOR UP TO #6 MIXTURE, 62 DIAMETERS FOR #7 TO #8 BARS, 68 DIAMETERS FOR #10 BARS OR AS NOTED ON THE DRAWINGS AND EXTENDED AROUND CORNERS WITH CORNER BARS. PLACING AND DETAILING OF STEEL REINFORCING AND REINFORCING SUPPORTS SHALL BE IN ACCORDANCE WITH CRSI AND ACI MANUAL AND STANDARD PRACTICES. THE REINFORCEMENT SHALL NOT BE PAINTED AND MUST BE FREE OF GREASE/OIL, DIRT, OR DEBRIS. WHEN PLACED IN THE WORK, ALL WELDED WIRE FABRIC SHALL MEET THE REQUIREMENTS OF ASTM A 1064. WELDED WIRE FABRIC SHALL BE PLACED 2" FROM TOP OF SLAB, UNLESS INDICATED OTHERWISE.

- CONTRACTOR SHALL ENGAGE A QUALIFIED INDEPENDENT TESTING AND INSPECTING AGENCY TO SAMPLE MATERIALS, PERFORM TESTS, AND SUBMIT TEST REPORTS DURING CONCRETE PLACEMENT. TESTS WILL BE PERFORMED ACCORDING TO ACI 301, EAST AND LABORATORY CURE ONE SET OF FOUR STANDARD CYLINDERS FOR EACH COMPOSITE SAMPLE FOR EACH DAY'S POUR OF EACH CONCRETE MIX EXCEEDING 5 CU. YD. BUT LESS THAN 25 CU. YD. PLUS ONE SET FOR EACH ADDITIONAL 50 CU. YD. OR FRACTION THEREOF. PERFORM COMPRESSIVE STRENGTH TESTS ACCORDING TO ASTM C 39. TEST TWO SPECIMENS AT 7 DAYS AND TWO SPECIMENS AT 28 DAYS. PERFORM SLUMP TESTING ACCORDING TO ASTM C 143. PROVIDE ONE TEST AT POINT OF PLACEMENT FOR EACH COMPOSITE SAMPLE, BUT NOT LESS THAN ONE TEST FOR EACH DAY'S POUR OF EACH CONCRETE MIX. PERFORM ADDITIONAL TESTS WHEN CONCRETE CONSISTENCY APPEARS TO CHANGE.
- PROTECT FRESHLY PLACED CONCRETE FROM PREMATURE DRYING AND EXCESSIVE COLD OR HOT TEMPERATURES. IN HOT, DRY, AND WINDY WEATHER, APPLY AN EVAPORATION-CONTROL COMPOUND ACCORDING TO MANUFACTURER'S INSTRUCTIONS AFTER SCREEDING AND BULL FLOATING, BUT BEFORE POWER FLOATING AND TROWELLING.
- LIMIT MAXIMUM WATER-CEMENTITIOUS RATIO OF CONCRETE EXPOSED TO FREEZING, THAWING, AND DEICING SALTS TO 0.45.
- MIX TEST RESULTS MUST BE IMMEDIATELY REPORTED IN WRITING TO THE DESIGN ENGINEER, READY-MIX PRODUCER, AND CONTRACTOR WITHIN 24 HOURS AFTER TESTS. REPORTS OF COMPRESSIVE STRENGTH TESTS SHALL CONTAIN THE PROJECT IDENTIFICATION NAME AND NUMBER, DATE OF CONCRETE PLACEMENT, NAME OF CONTRACT TESTING SERVICE, CONCRETE TYPE AND CLASS, LOCATION OF CONCRETE BATCH ON SITE, DESIGN COMPRESSIVE STRENGTH AT 28 DAYS, CONCRETE MIX PROPORTIONS AND MATERIALS, COMPRESSIVE BREAKING STRENGTH, AND TYPE OF BREAK FOR BOTH 7-DAY TESTS AND 28-DAY TESTS.

### 32 30 00 LANDSCAPING AND SITE STABILIZATION

- TOPSOIL: CONTRACTOR TO PROVIDE A MINIMUM OF 6" OF TOPSOIL FOR ALL DISTURBED OPEN AREAS, OTHER THAN LANDSCAPE ISLANDS SHALL BE PROVIDED WITH A MINIMUM OF 10" OF TOPSOIL. REUSE SURFACE SOIL STOCKPILED ON SITE AND SUPPLEMENT WITH IMPORTED OR MANUFACTURED TOPSOIL FROM OFF SITE SOURCES WHEN QUANTITIES ARE INSUFFICIENT. EXCAVATOR SHALL BE RESPONSIBLE FOR ROUGH PLACEMENT OF TOPSOIL TO WITHIN 1" OF FINAL GRADE PRIOR TO LANDSCAPER FINAL GRADING. LANDSCAPER TO PROVIDE PULVERIZING AND FINAL GRADINGS OF TOPSOIL. PROVIDE SOIL ANALYSIS BY A QUALIFIED SOIL TESTING LABORATORY AS REQUIRED TO VERIFY THE SUITABILITY OF SOIL TO BE USED AS TOPSOIL AND TO DETERMINE THE NECESSARY SOIL AMENDMENTS. TEST SOIL FOR THE PRESENCE OF AND FOR INFORM EXCEL ENGINEERING, INC. IF PRESENT PRIOR TO BIDDING PROJECT. TOPSOIL SHALL HAVE A PH RANGE OF 5.5 TO 8, CONTAIN A MINIMUM OF 5 PERCENT ORGANIC MATERIAL CONTENT, AND SHALL BE FREE OF STONES 1 INCH OR LARGER IN DIAMETER. ALL MATERIALS HARMFUL TO PLANT GROWTH SHALL ALSO BE REMOVED. TOPSOIL INSTALLATION: LOOSEN SUBGRADE TO A MINIMUM DEPTH OF 6 INCHES AND REMOVE STONES LARGER THAN 1" IN DIAMETER. ALSO REMOVE ANY STICKS, ROOTS, RUBBISH, AND OTHER EXTRANEOUS MATTER AND DISPOSE OF THEM OFF THE PROPERTY. SPREAD TOPSOIL TO A DEPTH OF 6" BUT NOT LESS THAN WHAT IS REQUIRED TO MEET FINISHED GRADES AFTER LIGHT ROLLING AND NATURAL SETTLING. DO NOT SPREAD TOPSOIL IF SUBGRADE IS FROZEN, MUDDY, OR EXCESSIVELY WET. GRADE PLANTING AREAS TO A SMOOTH, UNIFORM SURFACE PLANE WITH LOOSE, UNIFORM FINE TEXTURE. GRADE TO WITHIN 0.05 FEET OF FINISHED GRADE ELEVATION.
- SEEDING LAWNS:
  - PERMANENT LAWN AREAS SHALL BE SEEDDED WITH THE FOLLOWING MIXTURE: 65% KENTUCKY BLUEGRASS BLEND (2.0-2.6 LBS./1,000 S.F.), 20% PERENNIAL RYEGRASS (0.6-0.8 LBS./1,000 S.F.), 15% FINE FESCUE (0.4-0.6 LBS./1,000 S.F.). STRAW AND MULCH SHALL BE LAID AT 100LBS./1,000 S.F. FERTILIZE AS PER SOIL TEST OR APPLY 5-10-10 OR EQUIVALENT AT 5-6 LBS./1,000 S.F. SEE EROSION MATTING SPECIFICATIONS AS REQUIRED. ALL SITE DISTURBED AREAS NOT DESIGNATED FOR OTHER LANDSCAPING AND SITE STABILIZATION METHODS SHALL BE SEEDDED AS PERMANENT LAWN. NO BARE TOPSOIL SHALL BE LEFT ONSITE. FOLLOW PROCEDURES FOUND IN WDNR TECHNICAL STANDARDS 1058 & 1059.
  - ALL PERMANENT AND TEMPORARY STORM WATER CONVEYANCE SWALE BOTTOMS AND SIDE SLOPES SHALL BE SEEDDED WITH THE FOLLOWING MIXTURE: 45% KENTUCKY BLUEGRASS (0.60 LBS./1,000 S.F.), 40% CREEPING RED FESCUE (0.50 LBS./1,000 S.F.), AND 15% PERENNIAL RYEGRASS (0.20 LBS./1,000 S.F.). FERTILIZE AS PER SOIL TEST OR APPLY 5-10-10 OR EQUIVALENT AT 5-6 LBS./1,000 S.F. SEE EROSION MATTING SPECIFICATIONS AS REQUIRED. FOLLOW PROCEDURES FOUND IN WDNR TECHNICAL STANDARDS 1058 & 1059.

Table A: Allowable Pipe Material Schedule

Utility	Material	Pipe Code	Fitting Code	Joint Code
Water Lateral	C901/906 PE	AWWA C901/C906	ASTM D2609, ASTM D2683, ASTM D3261	Heat fusion: ASTM D2657
Sanitary Sewer	SDR 35 PVC	ASTM D1785, ASTM D2665, ASTM D3034, ASTM F891	ASTM F1336	Push On: ASTM D3212 for Tightness Elastomeric Gasket: ASTM F477
Storm Sewer	HDPE	ASTM F2648, ASTM F2306, AASHTO M252, TYPE 5 (4 IN - 10 IN), AASHTO M294, TYPE 5 (12 IN - 60 IN)	ASTM F2648, ASTM F2306, AASHTO M252, or AASHTO M294	Joint: ASTM F2648, ASTM F2306, AASHTO M252, or AASHTO M294 Elastomeric Seal: ASTM F477
Storm Sewer	SDR 35 PVC	ASTM D1785, ASTM D2665, ASTM D3034, ASTM F891	ASTM F1336	Push On: ASTM D3212 for Tightness Elastomeric Seal: ASTM F477

- TEMPORARY SEEDING SHALL CONSIST OF THE FOLLOWING MIXTURE: 100% RYEGRASS AT 1.9 LBS./1,000 S.F. STRAW AND MULCH SHALL BE LAID AT 100 LBS./1,000 S.F. FERTILIZE AS PER SOIL TEST OR APPLY 5-10-10 OR EQUIVALENT AT 5-6 LBS./1,000 S.F. SEE EROSION MATTING SPECIFICATIONS AS REQUIRED. FOLLOW PROCEDURES FOUND IN WDNR TECHNICAL STANDARDS 1058 & 1059.
- SEEDED LAWN MAINTENANCE: CONTRACTOR TO PROVIDE MAINTENANCE OF ALL LANDSCAPING FOR A PERIOD OF 90 DAYS FROM THE DATE OF INSTALLATION. AT THE END OF THE MAINTENANCE PERIOD, A HEALTHY, UNIFORM, CLOSE STAND OF GRASS SHALL BE ESTABLISHED FREE OF WEEDS AND SURFACE IRREGULARITIES. LAWN COVERAGE SHOULD EXCEED 90% AND BARE SPOTS SHOULD NOT EXCEED 5". CONTRACTOR SHOULD REESTABLISH LAWNS THAT DO NOT COMPLY WITH THESE REQUIREMENTS AND CONTINUE MAINTENANCE UNTIL LAWNS ARE SATISFACTORY.
- EROSION MATTING:
  - CONTRACTOR TO PROVIDE EROSION CONTROL MATTING (NORTH AMERICAN GREEN S150) OR EQUIVALENT ON ALL SLOPES THAT ARE 4:1 AND GREATER OUTSIDE OF STORMWATER CONVEYANCE SWALES AND STORMWATER MANAGEMENT BASINS. LAWN SEED SHALL BE PLACED BELOW MATTING IN ACCORDANCE WITH SEEDING REQUIREMENTS AND MANUFACTURER SPECIFICATIONS.
  - CONTRACTOR TO PROVIDE EROSION MATTING (NORTH AMERICAN GREEN C125) OR EQUIVALENT IN ALL SWALE BOTTOMS AND SIDE SLOPES AS REQUIRED. LAWN SEED SHALL BE PLACED BELOW MATTING IN ACCORDANCE WITH SEEDING REQUIREMENTS AND MANUFACTURER SPECIFICATIONS.

- TREES AND SHRUBS: FURNISH NURSERY-GROWN TREES AND SHRUBS WITH HEALTHY ROOT SYSTEMS DEVELOPED BY TRANSPLANTING OR ROOT PRUNING. PROVIDE WELL-SHAPED, FULLY BRANCHED, AND HEALTHY LOOKING STOCK. STOCKS SHOULD ALSO BE FREE OF DISEASE, INSECTS, EGGS, LARVAE, AND DEFECTS SUCH AS KNOTS, SUN SCALD, INJURIES, ABRASIONS, AND DISFIGUREMENT. SEE THE LANDSCAPE PLAN FOR SPECIFIC SPECIE TYPE, SIZE, AND LOCATION.
- TREE AND SHRUB INSTALLATION: EXCAVATE CIRCULAR PITS WITH SIDES SLOPED INWARD. TRIM BASE LEAVING CENTER AREA RAISED SLIGHTLY TO SUPPORT ROOT BALL. EXCAVATE PIT APPROXIMATELY THREE TIMES AS WIDE AS THE ROOT BALL DIAMETER. SET TREES AND SHRUBS PLUMB AND IN CENTER OF PIT WITH TOP OF BALL 1" ABOVE ADJACENT FINISHED GRADES. PLACE PLANTING SOIL MIX AROUND ROOT BALL IN LAYERS AND TAMP TO SETTLE MIX. WATER ALL PLANTS THOROUGHLY. PROVIDE TEMPORARY STAKING FOR TREES AS REQUIRED.
- TREE AND SHRUB MAINTENANCE/WARRANTY: CONTRACTOR TO PROVIDE MAINTENANCE OF ALL LANDSCAPING FOR A PERIOD OF 90 DAYS FROM THE DATE OF INSTALLATION. MAINTENANCE TO INCLUDE REGULAR WATERING AS REQUIRED FOR SUCCESSFUL PLANT ESTABLISHMENT. CONTRACTOR TO PROVIDE 1 YEAR WARRANTY ON ALL TREES, SHRUBS, AND PERENNIALS.
- MINERAL MULCH: PROVIDE 4" MINIMUM THICK BLANKET OF 1.5" MINIMUM TO 2.5" MAXIMUM CRUSHED DECORATIVE STONE AT ALL PLANTING AREAS INDICATED ON THE LANDSCAPE PLAN. INSTALL OVER NON-WOVEN WED BARRIER FABRIC. COLOR BY OWNER.
- PLASTIC EDGING: INSTALL VALLEY VIEW INDUSTRIES BLACK DIAMOND LAWN EDGING TO SEPARATE ALL PLANTING BEDS FROM LAWN AREAS. EDGING TO BE 5.5" TALL WITH METAL STAKES INSTALLED PER MANUFACTURER'S WRITTEN INSTRUCTIONS.

## DIVISION 33 UTILITIES

### 33 10 00 SITE UTILITIES

- CONTRACTOR TO FIELD VERIFY ALL EXISTING UNDERGROUND UTILITIES ON SITE. CONTRACTOR TO VERIFY PIPE LOCATIONS, SIZES, AND DEPTHS AT POINT OF PROPOSED CONNECTIONS AND VERIFY PROPOSED UTILITY ROUTES ARE CLEAR. PER CODE OF ALL EXISTING UTILITIES AND OTHER OBSTRUCTIONS PRIOR TO CONSTRUCTION. COSTS INCURRED FOR FAILURE TO DO SO SHALL BE THE CONTRACTORS RESPONSIBILITY.
- CONTRACTOR TO FIELD TELEVISOR ALL EXISTING SANITARY AND STORM LATERALS THAT ARE SCHEDULED TO BE RE-USED AND/OR CONNECTED TO ON SITE. THE TELEVISOR SHALL BE COMPLETED TO ENSURE THE EXISTING LATERALS ARE FREE OF OBSTRUCTIONS AND IN SOUND STRUCTURAL CONDITION. TELEVISIONS OF THESE LATERAL(S) SHOULD BE COMPLETED AT BEGINNING OF CONSTRUCTION AND DESIGN ENGINEER SHALL BE NOTIFIED OF ANY PIPE OBSTRUCTIONS AND/OR STRUCTURAL DEFICIENCIES IMMEDIATELY AFTER COMPLETION OF FIELD TELEVISIONS.
- ALL SANITARY PIPE SHALL BE IN ACCORDANCE WITH MATERIALS SPECIFIED IN TABLE A: ALLOWABLE PIPE MATERIAL SCHEDULE. INSULATION SHALL BE PROVIDED PER STATE PLUMBING CODES AS NECESSARY BASED ON PROPOSED DEPTH PER PLANS.
- CLEANOUTS SHALL BE PROVIDED FOR THE SANITARY & STORM SERVICES AT LOCATIONS INDICATED ON THE UTILITY PLAN. THE CLEANOUT SHALL CONSIST OF A COMBINATION WYE FITTING IN LINE WITH THE SANITARY/STORM SERVICE WITH THE CLEANOUT LEG OF THE COMBINATION WYE FACING STRAIGHT UP. THE CLEANOUT SHALL CONSIST OF A 4" OR 6" VERTICAL PVC PIPE WITH A WATERTIGHT REMOVABLE CLEANOUT PLUG. THE PVC CLEANOUT SHALL BE 4" IF THE SANITARY LINE IS 5" IN DIAMETER OR SMALLER AND 6" IF THE SANITARY LINE IS 6" IN DIAMETER OR BIGGER. AN 8" PVC ROOT SLEEVE SHALL BE PROVIDED. THE BOTTOM OF THE FROST SLEEVE SHALL TERMINATE 12" ABOVE THE TOP OF THE SANITARY LATERAL OR AT LEAST 6" BELOW THE PREDICTED FROST DEPTH, WHICHEVER IS SHALLOWER. THE CLEANOUT SHALL EXTEND JUST ABOVE THE SURFACE GRADE IN LAWN OR LANDSCAPE AREAS WITH THE FROST SLEEVE TERMINATING AT THE GRADE SURFACE. THE CLEANOUT SHALL EXTEND TO 4 INCHES BELOW SURFACE GRADE IN PAVED SURFACES WITH A ZURN (2-1474-N) HEAVY DUTY CLEANOUT HOUSING PLACED OVER THE TOP OF THE CLEANOUT FLUSH WITH THE SURFACE GRADE. IN PAVED SURFACES, THE FROST SLEEVE SHALL TERMINATE IN A CONCRETE PAD AT LEAST 6" THICK AND EXTENDING AT LEAST 9" FROM THE SLEEVE ON ALL SIDES. SLOPING AWAY FROM THE SLEEVE. THE CLEANOUT HOUSING SHALL BE CONSTRUCTED PER MANUFACTURERS' REQUIREMENTS.
- ALL PROPOSED WATER PIPE SHALL BE IN ACCORDANCE WITH MATERIALS SPECIFIED IN TABLE A: ALLOWABLE PIPE MATERIAL SCHEDULE. 6" MINIMUM COVER SHALL BE PROVIDED OVER ALL WATER PIPING UNLESS OTHERWISE SPECIFIED.
- ALL PROPOSED STORM PIPE SHALL BE IN ACCORDANCE WITH MATERIALS SPECIFIED IN TABLE A: ALLOWABLE PIPE MATERIAL SCHEDULE. SEE UTILITY PLANS FOR ALL STORM PIPE MATERIAL TYPES TO BE USED. PIPE SHALL BE PLACED MIN. 8" HORIZONTALLY FROM FOUNDATION WALLS.
- SANITARY, STORM, AND WATER UTILITY PIPE INVERTS SHALL BE CONSTRUCTED WITHIN 0.10' OF DESIGN INVERT ELEVATIONS ASSUMING PIPE SLOPE AND SEPARATION IS MAINTAINED PER THE UTILITY DESIGN PLANS AND STATE REQUIREMENTS.
- SITE UTILITY CONTRACTOR SHALL RUN SANITARY SERVICE TO A POINT WHICH IS A MAXIMUM OF 5' FROM THE EXTERIOR WALL OF THE FOUNDATION. SITE UTILITY CONTRACTOR SHALL RUN STORM SEWER FOR INTERNALLY DRAINED BUILDINGS TO A POINT WHICH IS A MAXIMUM OF 5' FROM THE EXTERIOR WALL OF THE FOUNDATION. SITE UTILITY CONTRACTOR SHALL RUN DOWNSPOUT LEADS TO BUILDING FOUNDATION AND UP 6" ABOVE SURFACE GRADE FOR CONNECTION TO DOWNSPOUT FOR ALL DOWNSPOUT TO RISER (DSR) CONNECTIONS. DOWNSPOUTS TO GRADE (DSG) SHALL BE PROVIDED WITH SPLASH BLOCKS AT THE DISCHARGE LOCATION. ALL DOWNSPOUT LOCATIONS SHOULD BE VERIFIED WITH ARCHITECTURAL PLANS AND DOWNSPOUT CONTRACTOR/GC PRIOR TO INSTALLATION OF DOWNSPOUT LEADS. DOWNSPOUT LEADS SHALL NOT UNDERMINE BUILDING FOUNDATIONS. SITE UTILITY CONTRACTOR SHALL RUN WATER SERVICE TO A POINT WITHIN THE FOUNDATION SPECIFIED BY THE PLUMBING PLANS. CONTRACTOR TO CUT AND CAP WATER SERVICE 12" ABOVE FINISHED FLOOR ELEVATION.
- ALL UTILITIES SHALL BE INSTALLED WITH PLASTIC COATED TRACER WIRE (10 TO 14 GAUGE SOLID COPPER, OR COPPER COATED STEEL WIRE). PLASTIC WIRE MAY BE TAPED TO PLASTIC WATER OR SEWER PIPE IF ATTACHED. THE TRACER WIRE SHALL BE SECURED EVERY 6 TO 20 FEET AND AT ALL BENDS. TRACER WIRE SHALL HAVE ACCESS POINTS AT LEAST EVERY 300 FEET. TRACER WIRE SHALL TERMINATE IN ACCORDANCE WITH MANUFACTURER SPECIFICATIONS AT GRADE OR IN TERMINATION BOX PER LOCAL/STATE REQUIREMENTS.

- ALL UTILITIES SHALL BE INSTALLED PER STATE, LOCAL, AND INDUSTRY STANDARDS. WATER, SANITARY, AND STORM SEWER SHALL BE INSTALLED PER "STANDARD SPECIFICATION FOR SEWER AND WATER CONSTRUCTION IN WISCONSIN" THE EXCEL ENGINEERING DESIGN ENGINEER SHALL BE RESPONSIBLE FOR OBTAINING STATE PLUMBING REVIEW AND PERMITS (IF REQUIRED). THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL OTHER PERMITS REQUIRED TO INSTALL WATER, SANITARY, AND STORM SEWER.
- SEE PLANS FOR ALL OTHER UTILITY SPECIFICATIONS AND DETAILS.

## SHOP DRAWING SUBMITTALS

### MATERIAL / INFORMATION

- 31.10.00 - TELEVISION REPORTS OF EXISTING LATERALS
  - SANITARY
- 31.20.00 - FILL
  - PRODUCT DATA
  - SOURCE MATERIAL
- 32.10.00 (A) - AGGREGATE BASE & ASPHALT PAVEMENT
  - HOT MIX ASPHALT SPECIFICATIONS
  - AGGREGATE BASE
  - PAVEMENT MARKINGS
- 32.20.00 - CONCRETE AND AGGREGATE BASE
  - DESIGN MIX
  - AGGREGATE BASE
  - COMPRESSION TEST RESULTS
  - DETECTABLE WARNING PLATES
- 32.30.00 LANDSCAPING
  - AMENDED SOIL MIX
  - SEEDING PRODUCT DATA
  - PLANTING SUBSTITUTION SCHEDULE
  - MULCH PRODUCT DATA
  - EROSION MATTING
- 33.10.00 - SITE UTILITIES
  - STORM MANHOLES
  - SANITARY PIPING MATERIALS
  - GREASE INTERCEPTOR SHOP DRAWINGS
  - WATER PIPING MATERIALS
  - WATER FITTINGS & APPURTENANCES
  - STORM PIPING MATERIALS



BY GRAPHIC PLOTTING ONLY, THIS PROPERTY IS IN ZONE "X" OF THE FLOOD INSURANCE RATE MAP, COMMUNITY PANEL NO. 55087C034D, WHICH BEARS AN EFFECTIVE DATE OF 7/21/2010 AND IS NOT IN A SPECIAL FLOOD HAZARD AREA

BENCHMARKS:

TBM #1  
SET MAG-NAIL  
NORTHING: 162017.97  
EASTING: 2420921.08  
ELEVATION: 714.85'

TBM #2  
SET MAG-NAIL  
NORTHING: 161816.80  
EASTING: 2420774.15  
ELEVATION: 717.81'

SURVEY NOTE:

EXISTING CONDITIONS SURVEY WAS COMPLETED BY BLEW & ASSOCIATES, P.A. ON SEPTEMBER 30, 2024. CONTACT BLEW & ASSOCIATES, P.A. AT (479) 443-4506 WITH ANY QUESTIONS REGARDING SURVEY OR EXISTING CONDITIONS INFORMATION.

LEGEND:

- REMOVE PAVEMENT & BASE
- MILL EXISTING ASPHALT SURFACE, PROTECT BASE
- REMOVE FEATURES

GENERAL NOTE:

CONTRACTOR TO FIELD VERIFY EXISTING UTILITIES AND PROVIDE INFORMATION TO DESIGN ENGINEER PRIOR TO CONSTRUCTION. DOWNSTREAM UTILITY CONNECTIONS **MUST** BE VERIFIED PRIOR TO CONSTRUCTION AND PROVIDED TO ENGINEER.

KEYNOTES

A	REMOVE BOLLARD
B	FIELD VERIFY EXISTING STORM PIPE IS NOT IN USE. ABANDON IN PLACE. INFORM ENGINEER OF ANY DISCREPANCIES.
D	MILL EXISTING ASPHALT SURFACE AND PROTECT BASE
E	SAWCUT (AS NECESSARY) AND REMOVE CONCRETE AND BASE
F	REMOVE GLASS TOWER
G	REMOVE CURB. SAWCUT (AS NECESSARY)
H	REMOVE FLAG POLE
I	PROTECT EXISTING CURB
J	REMOVE STORM PIPING TO EXTENTS
K	REMOVE LIGHT POLE
L	REMOVE PAVEMENT MARKINGS PROTRUDING ONTO NEIGHBORING PROPERTY (TYP)
M	RECYCLE GRAVEL AS NEEDED
N	REMOVE STORM STRUCTURE
O	REMOVE POLE SIGN
P	DEMOLISH BUILDING. CAP EXISTING UTILITIES. FOLLOW LOCAL AND STATE REQUIREMENTS FOR REMOVAL OF POSSIBLE ASBESTOS MATERIALS.
Q	REMOVE ELECTRICAL EQUIPMENT. COORDINATE WITH UTILITY COMPANY.
R	FIELD VERIFY AND TELEVIEW EXISTING SANITARY LINE. INFORM ENGINEER OF ANY DISCREPANCIES.
S	REMOVE TREE IF NECESSARY.
T	PROTECT STORM STRUCTURE
U	REMOVE SANITARY LINE TO EXTENTS

LEGEND & SYMBOLS

- FOUND MONUMENT AS NOTED
- SET MONUMENT AS NOTED
- COMPUTED POINT
- HANDICAP PARKING
- FIRE HYDRANT
- LIGHT
- SANITARY MANHOLE (SMH)
- BOLLARD
- POWER POLE
- ELECTRIC METER
- ELECTRIC BOX
- ELECTRIC MANHOLE
- MONITORING WELL
- WATER VALVE
- CIRCLE INLET (CI)
- GRADED INLET (GI)
- STORM MANHOLE (DMH)
- TELEPHONE PEDESTAL
- CLEANOUT
- GAS METER
- SIGN
- FLAG POLE
- GAS METER
- TRAFFIC POLE
- BACK OF CURB
- FLOW LINE
- TOP OF CONCRETE
- EDGE OF CONCRETE
- TOP OF ASPHALT
- EDGE OF ASPHALT
- NATURAL GROUND
- PVC
- CMP
- RCP
- (M)
- (R)
- N/F
- BHL
- P.O.B.

INVERT TABLE

DMH#1	SMH#1	GH#5	GH#12
RIM ELEVATION: 716.61' 30" CMP INVERT W: 708.6' 30" CMP INVERT E: 708.6' 24" CMP INVERT S: 708.8'	RIM ELEVATION: 714.44' 8" PVC INVERT N: 705.9' 8" PVC INVERT E: 705.9' 8" PVC INVERT S: 705.9'	RIM ELEVATION: 716.17' 12" CMP INVERT W: 711.6' 12" CMP INVERT E: 711.8'	RIM ELEVATION: 717.33' 12" CMP INVERT W: 712.6' 4" PVC INVERT N: 713.2' 4" PVC INVERT E: 713.1' 4" PVC INVERT S: 715.2' 12" CMP INVERT N: 712.4'
DMH#2	SMH#2	GH#7	GH#13
RIM ELEVATION: 715.03' 30" CMP INVERT W: 708.4' 30" CMP INVERT E: 705.4' 12" CMP INVERT S: 708.2' 12" CMP INVERT N: 709.2'	RIM ELEVATION: 716.83' 8" PVC INVERT W: 708.4' 8" PVC INVERT E: 708.5'	RIM ELEVATION: 716.17' 10" PVC INVERT W: 711.9' 12" RCP INVERT W: 712.1' 10" PVC INVERT E: 712.0'	RIM ELEVATION: 717.26' 4" PVC INVERT W: 713.2' 4" PVC INVERT E: 713.1' 4" PVC INVERT S: 715.2' 12" CMP INVERT N: 712.4'
DMH#3	GH#1	GH#8	GH#9
RIM ELEVATION: 714.78' 12" CMP INVERT W: 708.8' 12" CMP INVERT E: 708.6' 24" CMP INVERT S: 707.8' 24" CMP INVERT N: 707.8'	RIM ELEVATION: 716.67' 12" RCP INVERT W: 715.5'	RIM ELEVATION: 716.51' 12" RCP INVERT W: 712.2' 12" PVC INVERT N: 712.8' 12" RCP INVERT E: 712.2'	RIM ELEVATION: 716.03' 12" RCP INVERT W: 712.8'
DMH#4	GH#2	GH#3	GH#10
RIM ELEVATION: 717.50' 12" CMP INVERT W: 711.3' 12" CMP INVERT E: 711.3' 24" CMP INVERT S: 709.7' 24" CMP INVERT N: 709.7'	RIM ELEVATION: 716.83' 12" PVC INVERT N: 712.8'	RIM ELEVATION: 716.15' 12" PVC INVERT S: 712.2' 18" RCP INVERT N: 712.1'	RIM ELEVATION: 716.03' 12" RCP INVERT W: 712.8'
DMH#5	GH#4	GH#11	GH#5
RIM ELEVATION: 717.37' 12" CMP INVERT W: 711.8' 12" CMP INVERT E: 711.9' 12" CMP INVERT S: 712.3' 12" CMP INVERT N: 712.0'	RIM ELEVATION: 714.29' 30" RCP INVERT W: 707.8' 30" CMP INVERT E: 707.2' 18" RCP INVERT S: 708.0'	RIM ELEVATION: 717.20' 12" CMP INVERT E: 712.3' 12" PVC INVERT N: 712.8' 4" PVC INVERT N: 712.8' 10" PVC INVERT S: 714.2' 4" PVC INVERT W: 714.2'	RIM ELEVATION: 716.43' 12" CMP INVERT N: 711.7'

LINE TABLE

LINE	BEARING	DISTANCE	LINE	BEARING	DISTANCE
L1	N 89°13'08"E	50.00'	L1	S 89°16'20"E	50.00'
L2	N 00°31'01"W	50.00'	L2	N 00°39'30"E	50.00'
L3	N 89°33'09"E	100.00'	L3	S 89°16'20"E	100.00'
L4	N 00°31'01"W	50.00'	L4	N 00°39'30"E	50.00'
L5	N 89°29'33"E	48.74'	L5	S 89°16'20"E	48.75'
L6	N 89°29'33"E	5.01'	L6	--	--
L7	S 89°36'55"W	60.00'	L7	--	--
L8	S 89°29'33"W	55.29'	L8	--	--
L9	S 89°36'21"W	6.39'	L9	--	--
L10	S 89°33'09"E	26.43'	L10	--	--
L11	N 89°24'02"E	35.09'	L11	--	--

- R/W
- C/L
- SS
- SD
- UGE
- BTL
- GAS
- WL
- MAJOR CONTOUR
- MINOR CONTOUR

SCALE: 1"= 20'



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920-926-9800  
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PACIFIC BELLS, LLC  
111 W. 39TH STREET  
VANCOUVER, WA 98660

NEW BUILDING FOR:  
**PACIFIC BELLS, LLC**  
1800 CROOKS AVENUE • KAUKAUNA, WI 54130

DATE	REMARKS
11/20/2024	PRELIM

PROFESSIONAL SEAL

JOB NUMBER

240296000



ENDEAVOR 2.0

CIVIL EXISTING  
SITE AND  
DEMOLITION PLAN  
**C1.0**





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ENDEAVOR 2.0

CIVIL SITE PLAN

C1.1

### SITE INFORMATION:

A PARCEL OF LAND BEING PART OF PARCEL "A" AND "B", OUTAGAMIE COUNTY CERTIFIED SURVEY MAP NO. 68, RECORDED IN VOLUME 1 OF CERTIFIED SURVEY MAPS, PAGE 68, OUTAGAMIE COUNTY RECORDS, ORIGINALLY BEING A PART OF SUB-LOT "A" OF GOVERNMENT LOT FIVE (5)

APN: 324047300

PROPERTY AREA: 29,875 S.F. (0.686 ACRES)

EXISTING ZONING: CHD (COMMERCIAL HIGHWAY DISTRICT)

PROPOSED ZONING: CHD (COMMERCIAL HIGHWAY DISTRICT)

PROPOSED USE: QUICK SERVE RESTAURANT W/ DRIVE-THRU

AREA OF SITE DISTURBANCE: 22,468 (0.52 ACRES)

AREA OF IMPERVIOUS SURFACE DISTURBANCE AND CREATION: 19,159 S.F. (0.44 ACRES)

SETBACKS:

BUILDING: FRONT (WEST, NORTH, EAST) = 25'  
SIDE (SOUTH) = 0'

PAVEMENT: FRONT (WEST, NORTH, EAST) = 0'  
SIDE (SOUTH) = 0'

BUFFERYARDS:

FRONT (WEST, NORTH, EAST) = 0'  
SIDE (SOUTH) = 0'

PROPOSED BUILDING HEIGHT: 23' (MAX. HEIGHT ALLOWED: 56' OR FOUR STORIES)

PARKING REQUIRED: SUFFICIENT SUCH THAT NO PUBLIC STREET SHALL BE USED

PARKING PROVIDED: 34 SPACES (2 H.C. ACCESSIBLE)

HANDICAP STALLS REQUIRED: 2, HANDICAP STALLS PROVIDED: 2

MAXIMUM LOT COVERAGE - BUILDING ONLY: 35%

### LEGEND:

HATCH	PAVEMENT SECTION	HATCH	PAVEMENT SECTION
	STANDARD ASPHALT		HEAVY DUTY CONCRETE
	HEAVY DUTY ASPHALT		DUMPSTER PAD / APRON CONCRETE
	SIDEWALK CONCRETE		MILL & OVERLAY EXISTING ASPHALT

### KEYNOTES

1	CONCRETE STOOP (SEE STRUCTURAL PLANS FOR DETAILS)
2	RAISED WALK (SEE DETAIL)
3	FLUSH WALK (SEE DETAIL)
6	ADA CURB RAMP (SEE DETAIL)
7	6" VERTICAL CURB (SEE DETAIL)
8	DRIVE-THRU BUILDING VERTICAL CURB (SEE DETAIL)
9	CURB TAPER (SEE DETAIL)
10	CURB CUT (SEE DETAIL)
11	CONCRETE TRANSFORMER PAD BY UTILITY SUPPLIER (CONTRACTOR TO VERIFY FINAL LOCATION & DESIGN PRIOR TO CONSTRUCTION)
12	HANDICAP SIGN PER STATE CODE (SEE DETAIL)
13	HANDICAP STALL & STRIPING PER STATE CODES
14	PRECAST CONCRETE WHEEL STOP (TYP.)
15	PYLON SIGN (DETAILS, FINAL LOCATION, & APPROVAL BY SIGN VENDOR)
16	DUMPSTER ENCLOSURE (SEE ARCH PLANS FOR DETAILS)
17	6" CONCRETE BOLLARDS (TYP.) (SEE DETAIL)
18	CONCRETE FLUME (TYP.)
21	DETECTABLE WARNING PLATE PER STATE CODE
22	TRAFFIC FLOW ARROWS (TYP), COLOR TO MATCH PARKING STALL STRIPING
23	PAINT STRIPING (TYP), COLOR TO MATCH PARKING STALL STRIPING
26	MENU BOARD
27	SPEAKER POST, CANOPY, AND BOLLARD
28	CLEARANCE BAR AND BOLLARD WITH DRIVE-THRU SIGN
29	BUILDING CANOPY (TYP.) (SEE ARCH PLANS)
30	DRIVE-THRU LOOP (TYP.)
31	DO NOT ENTER/THANK YOU SIGN
32	DIRECTIONAL SIGNAGE FOR DRIVE-THRU
33	MOBILE PICKUP PARKING STALL WITH ASSOCIATED SIGNAGE AND PAINT STRIPING (TYP.) SIGN BY SIGN VENDOR

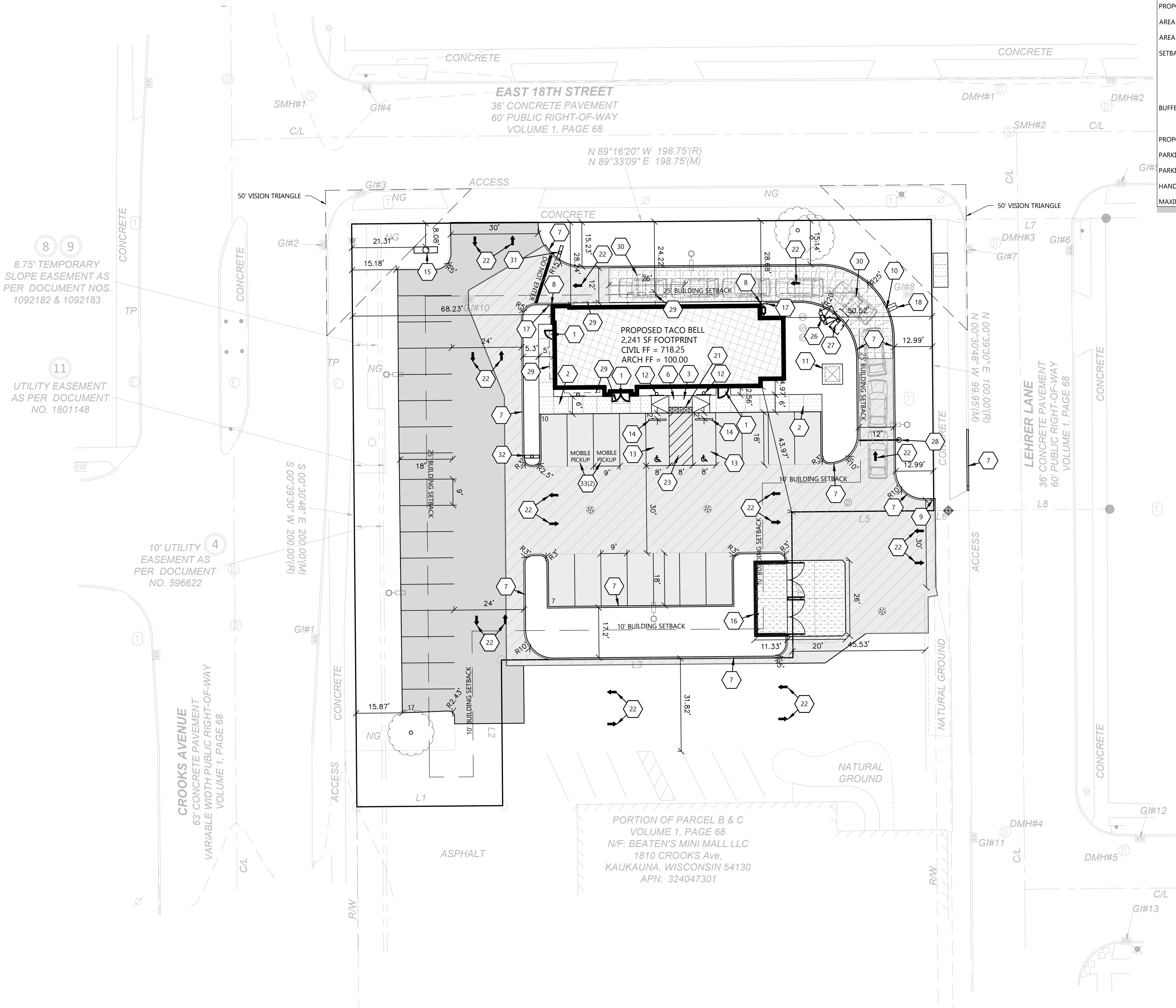
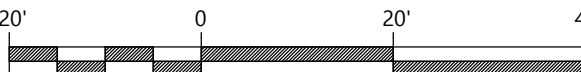
### EXISTING SITE DATA

	AREA (AC)	AREA (SF)	RATIO
BUILDING FLOOR AREA	0.14	6,021	20.2%
PAVEMENT (ASP. & CONC.)	0.40	17,508	58.6%
TOTAL IMPERVIOUS	0.54	23,529	78.8%
LANDSCAPE/ OPEN SPACE	0.15	6,346	21.2%
PROJECT SITE	0.69	29,875	100.0%

### PROPOSED SITE DATA

	AREA (AC)	AREA (SF)	RATIO
BUILDING FLOOR AREA	0.05	2,241	7.5%
PAVEMENT (ASP. & CONC.)	0.41	18,032	60.4%
TOTAL IMPERVIOUS	0.47	20,273	67.9%
LANDSCAPE/ OPEN SPACE	0.22	9,602	32.1%
PROJECT SITE	0.69	29,875	100.0%

SCALE: 1"= 20'



PORTION OF PARCEL B & C  
VOLUME 1, PAGE 68  
N/F: BEATEN'S MINI MALL LLC  
1810 CROOKS Ave,  
KAUKAUNA, WISCONSIN 54130  
APN: 324047301





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PACIFIC BELLS, LLC  
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VANCOUVER, WA 98660

NEW BUILDING FOR:  
**PACIFIC BELLS, LLC**  
1800 CROOKS AVENUE • KAUKAUNA, WI 54130

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PROFESSIONAL SEAL

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ENDEAVOR 2.0

CIVIL GRADING  
AND EROSION  
CONTROL PLAN

C1.2

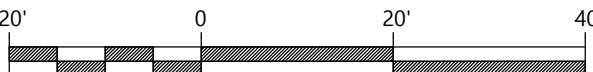
GENERAL NOTES:

- HANDICAP STALL AND ACCESS AISLES SHALL NOT EXCEED A SLOPE OF 1.50% IN ANY DIRECTION. HANDICAP STALL & ACCESS AISLES SHALL CONFORM TO ADA REQUIREMENTS (CURRENT EDITION)
- ALL SIDEWALKS SHALL NOT EXCEED A MAXIMUM CROSS SLOPE OF 1.50% AND RUNNING SLOPE OF 4.50% UNLESS OTHERWISE SPECIFIED.
- CONTRACTOR SHALL PROVIDE STABILIZED CONSTRUCTION ENTRANCE AT CONSTRUCTION ENTRANCE FOR PROPOSED IMPROVEMENTS AS REQUIRED PER CODE.
- CONTRACTOR SHALL PROVIDE CONCRETE WASHOUT AS REQUIRED PER CODE. FINAL LOCATION TBD BY CONTRACTOR.
- CONTRACTOR SHALL PROVIDE TEMPORARY INLET PROTECTION FOR ALL CURB INLETS & CATCH BASINS ONSITE & OFFSITE IMMEDIATELY DOWNSTREAM OF THE PROJECT SITE PER LOCAL CODE.
- CONTRACTOR SHALL NOTIFY THE DIRECTOR OF PUBLIC WORKS WITHIN 48 HOURS OF COMMENCING ANY LAND DISTURBING CONSTRUCTION ACTIVITY.

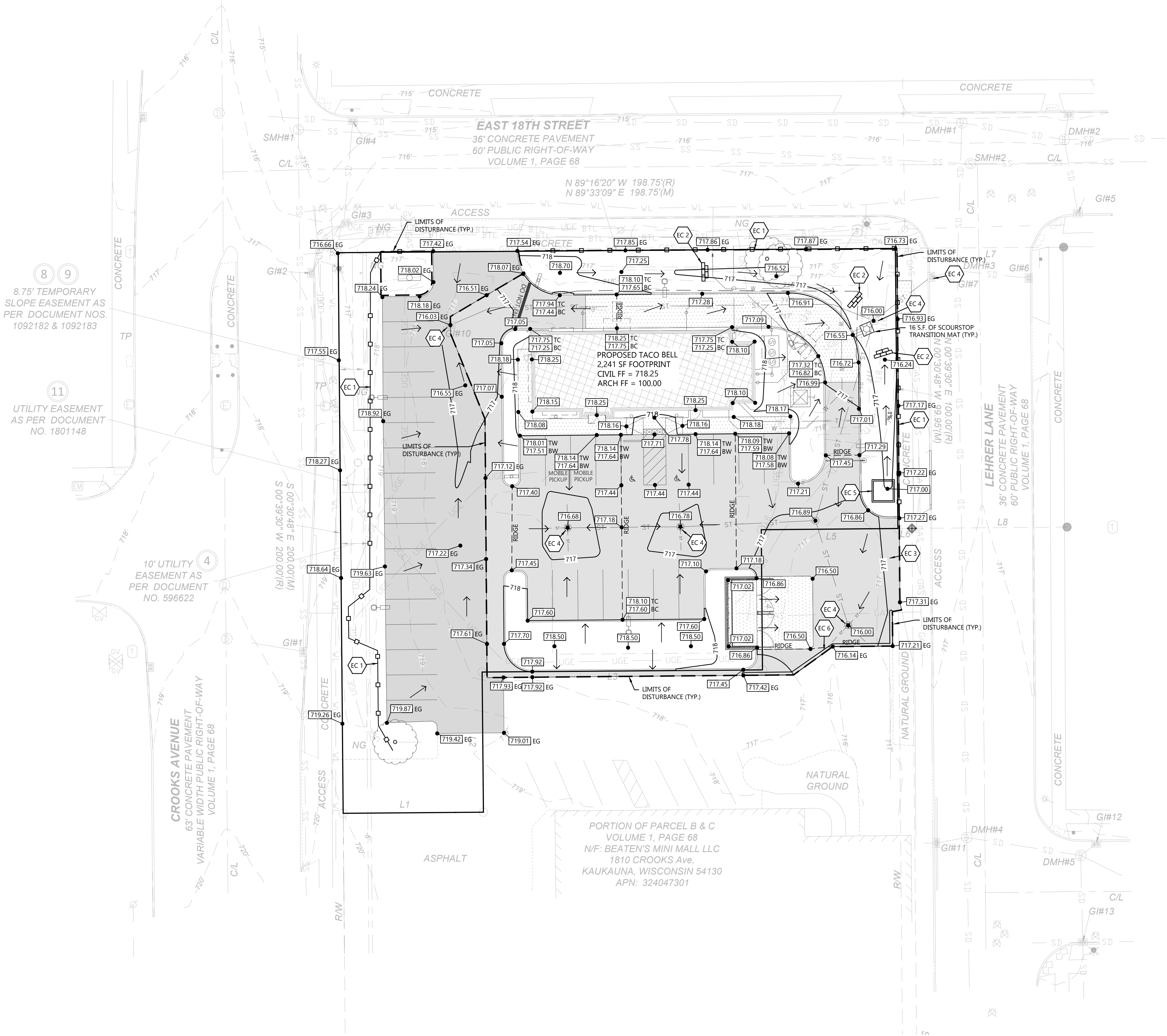
KEYNOTES

EC 1	SILT FENCE
EC 2	DITCH CHECK
EC 3	STABILIZED CONSTRUCTION ENTRANCE
EC 4	INLET PROTECTION
EC 5	CONCRETE WASHOUT
EC 6	SEDIMENT LOG

SCALE: 1"= 20'



NORTH





GENERAL NOTES:

- CONTRACTOR TO FIELD VERIFY EXISTING UTILITIES AND PROVIDE INFORMATION TO DESIGN ENGINEER PRIOR TO CONSTRUCTION. DOWNSTREAM UTILITY CONNECTIONS MUST BE VERIFIED PRIOR TO CONSTRUCTION AND PROVIDED TO ENGINEER.
- FOLLOW GEOTECH RECOMMENDATIONS FOR UNDERDRAINS AT INLET LOCATIONS.



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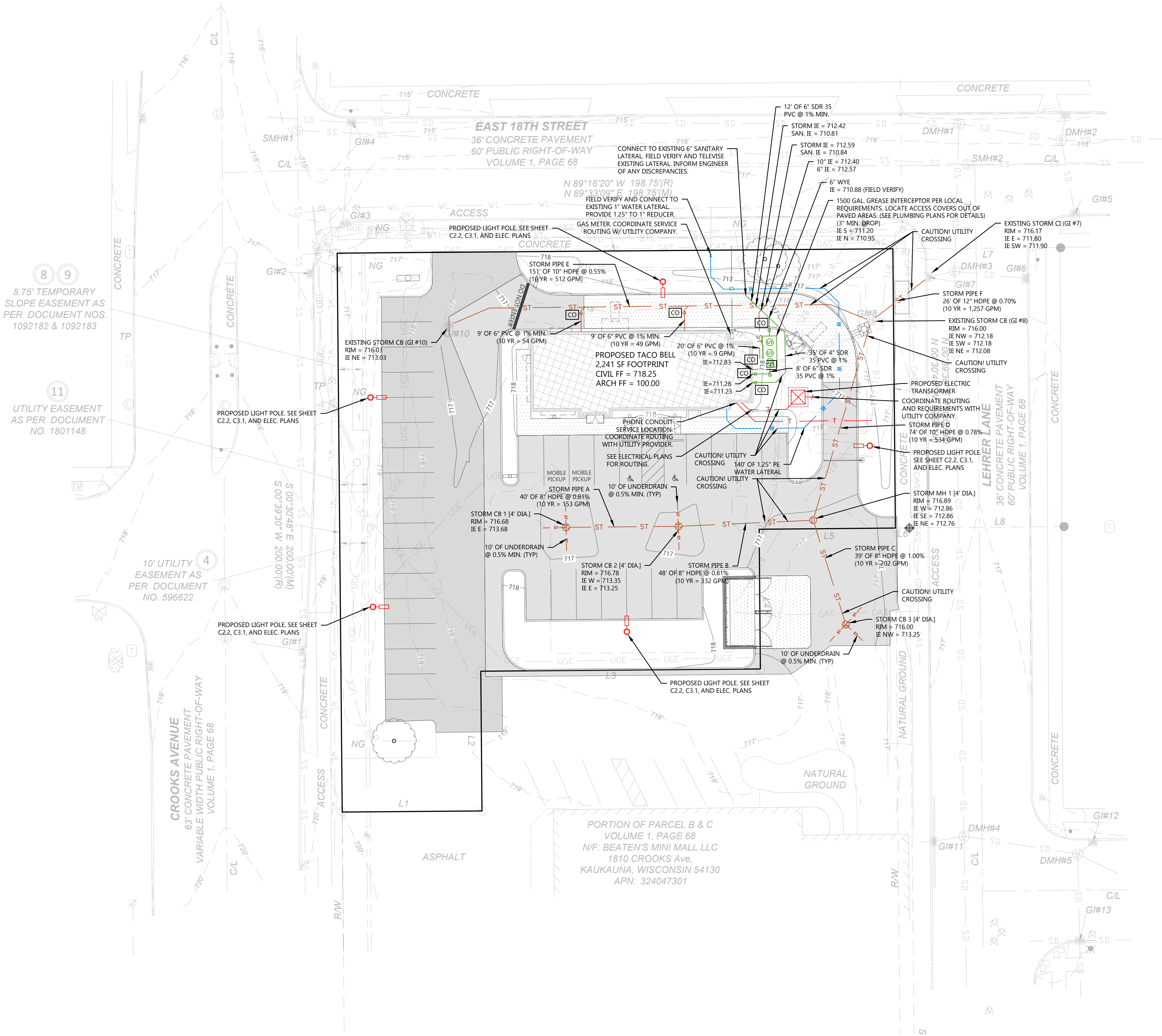


JOB NUMBER  
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ENDEAVOR 2.0  
CIVIL UTILITY  
PLAN

C1.3



UTILITY CONTACTS

GAS:  
WE ENERGIES  
KATHY MEYER  
800-714-7777 (OFFICE)  
262-305-4772 (CELL)  
kathy.meyer@we-energies.com

ELECTRIC & WATER:  
KAUKAUNA UTILITIES  
920-766-5721  
kumail@ku-wi.org







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ENDEAVOR 2.0

CIVIL LANDSCAPE  
AND RESTORATION  
PLAN

C1.4

#### GENERAL NOTES:

- DEAD PLANTINGS SHALL BE REMOVED AND REPLACED WITHIN 30 DAYS. IN CASES WHERE PLANTINGS CAN'T BE ESTABLISHED IN 30 DAYS, AN APPROPRIATE TIMELINE SHALL BE APPROVED BY THE COMMUNITY DEVELOPMENT DEPARTMENT DESIGNER.

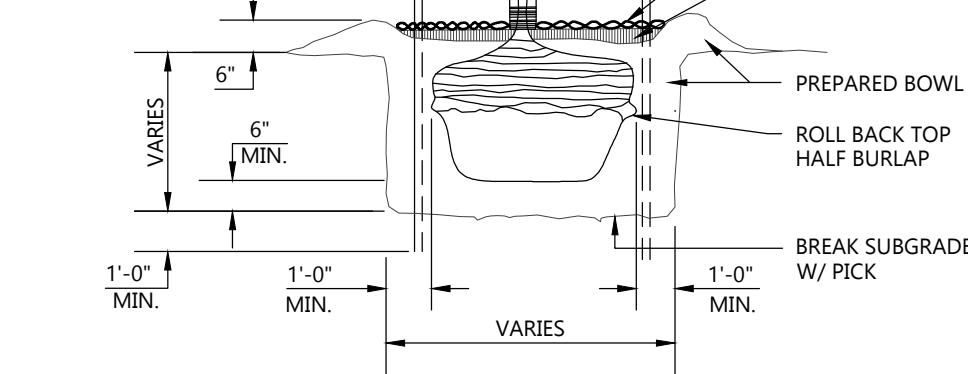
#### HATCH KEY:

HATCH	LANDSCAPE MATERIAL
	MINERAL MULCH
	SEEDED LAWN
	EROSION MATTING (NAG C125) OVER SEEDED LAWN (SWALE BOTTOMS & SWM)

12 GA. GALV. WIRE W/  
REINF. RUBBER HOSE -  
(2) REQ'D.

2" x 2" x 8'-0"  
CEDAR STAKES

TREE WRAP  
DECIDUOUS TREES



#### TREE PLANTING DETAIL

NOT TO SCALE

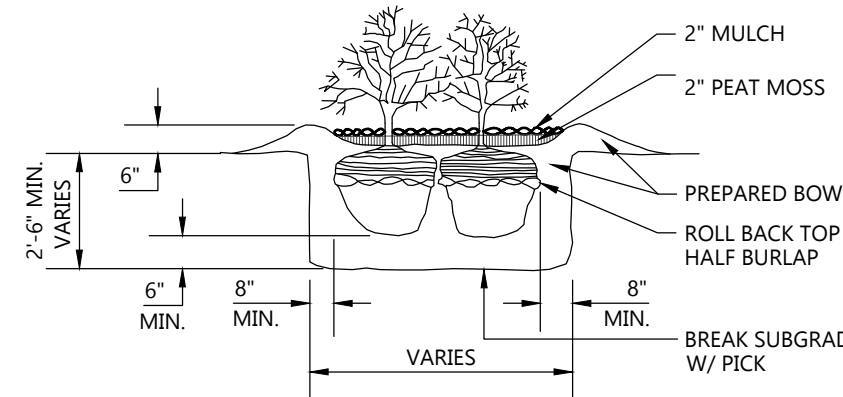
#### LANDSCAPING PLANTING SCHEDULE

SYMBOL	COMMON NAME	BOTANICAL NAME	PLANTED SIZE	QUANTITY
DECIDUOUS TREES				
	Red Maple	Acer rubrum	2"	2
	Red Oak	Quercus rubra	2"	1
	Crape Myrtle	Lagerstroemia indica	2"	3
DECIDUOUS SHRUBS				
	Bush Morning Glory	Convolvulus cneorum	5 gal pot	8
	Adams Needle	Yucca flaccida	5 gal pot	9
	Barberry	Berberis spp.	1 gal pot	12
PERENNIALS				
	Ajuga	Ajuga reptans	1 gal pot	11
	Canadian Juniper	Juniperus communis	1 gal pot	12
	Daylilies 'Stella de Oro'	Hemerocallis 'Stella de Oro'	1 gal pot	13
EXISTING TREES				
	EXISTING TREE			3
GRANITE BOULDERS				
	24"-30" Diameter Granite Boulder		24"-30"	2

#### LANDSCAPING CALCULATIONS

REQ. PLANTS	PLANTS PROVIDED
1 TREE/75 LF WITHIN FRONT YARD SETBACK ADJACENT TO STREET, INGRESS/EGRESS EXCLUDED (499 LF-53 LF)/75 LF=6 TREES	3 TREES PROPOSED, 3 TREES EXISTING 6 TREES TOTAL
1 SHRUB/5 LF OF BUILDING STREET FRONTAGE 136 LF/5 LF=28 SHRUBS	29 SHRUBS

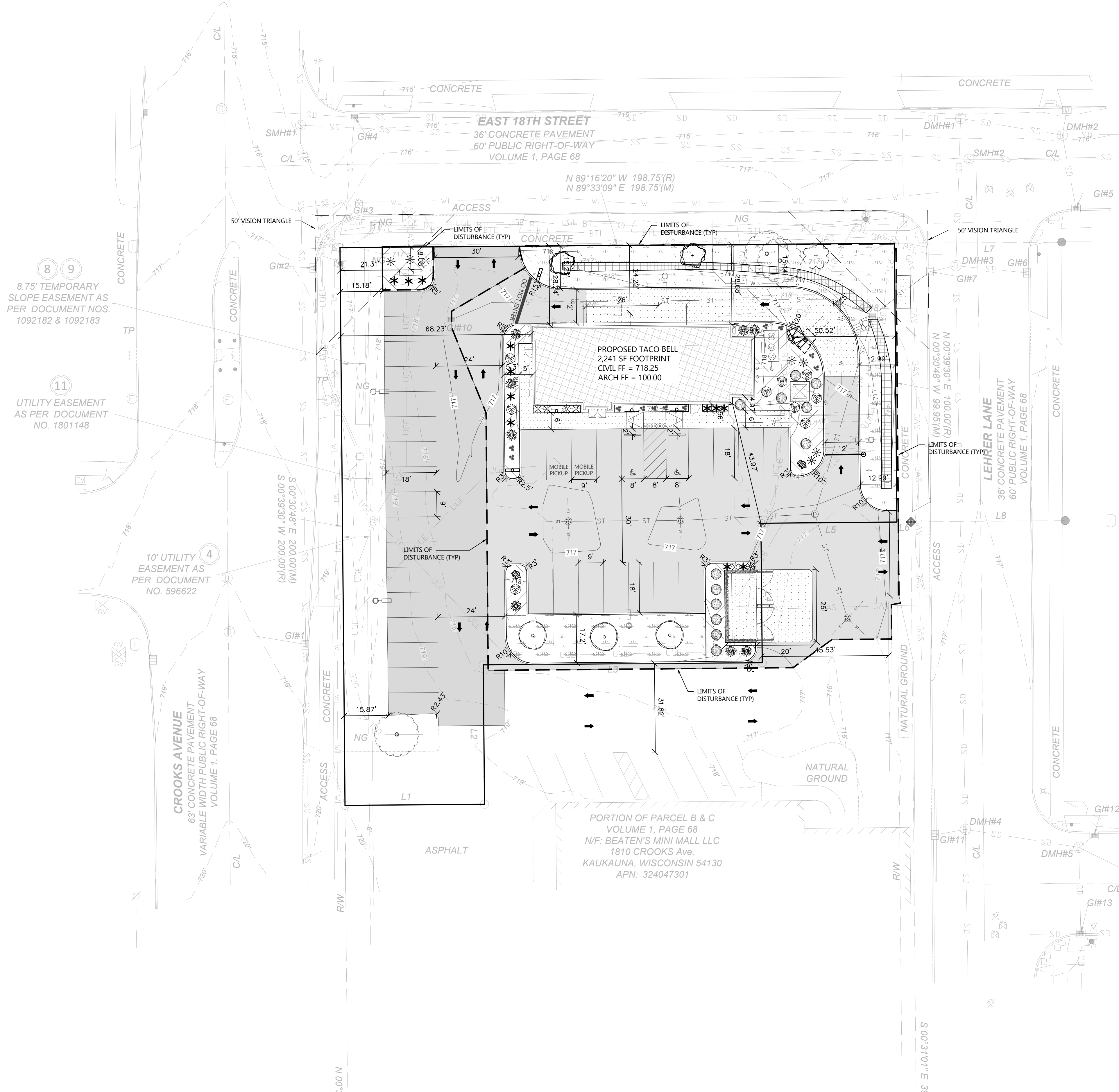
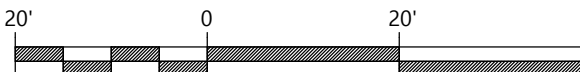
NOTE: FOR MASS  
PLANTINGS EXCAVATE  
ENTIRE BED &  
BACKFILL W/  
PREPARED SOIL.



#### SHRUB PLANTING DETAIL

NOT TO SCALE

SCALE: 1"= 20'







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	DATE	REMARKS
	11/20/2024	PRELIM

PROFESSIONAL SEAL

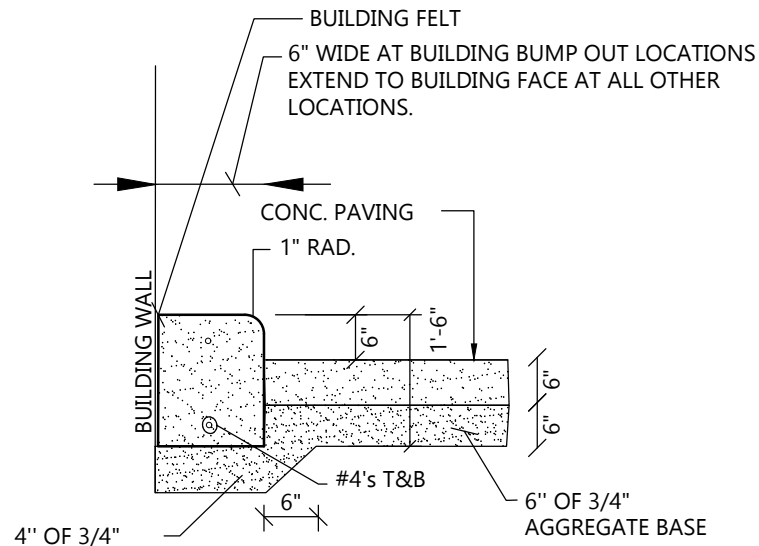
JOB NUMBER

240296000



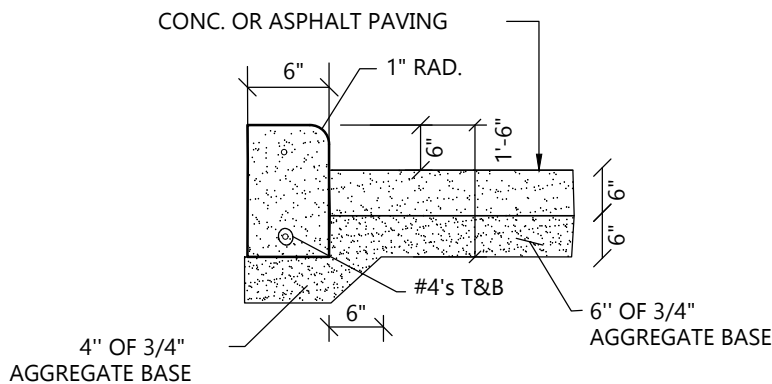
ENDEAVOR 2.0  
CIVIL DETAILS

C2.0



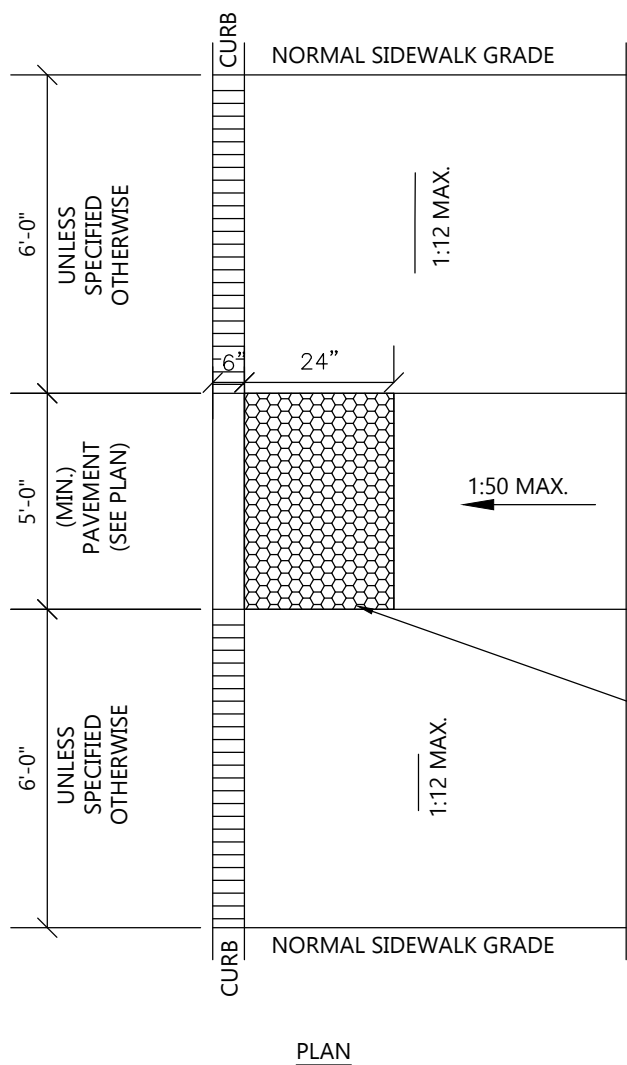
DRIVE-THRU BUILDING  
VERTICAL CURB DETAIL

NO SCALE



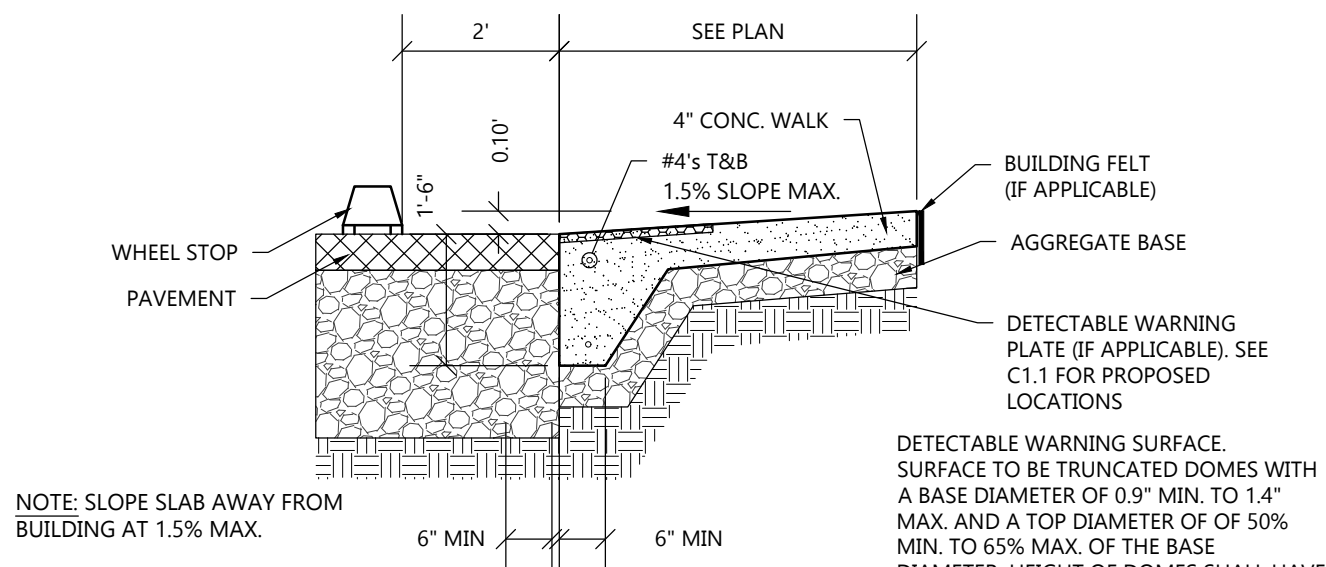
6" VERTICAL CURB DETAIL

NO SCALE



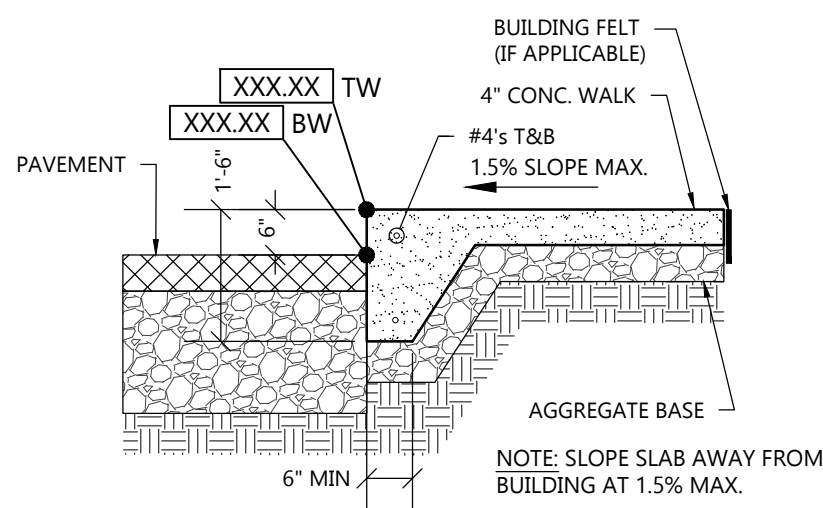
ADA SIDEWALK RAMP DETAIL

NOT TO SCALE



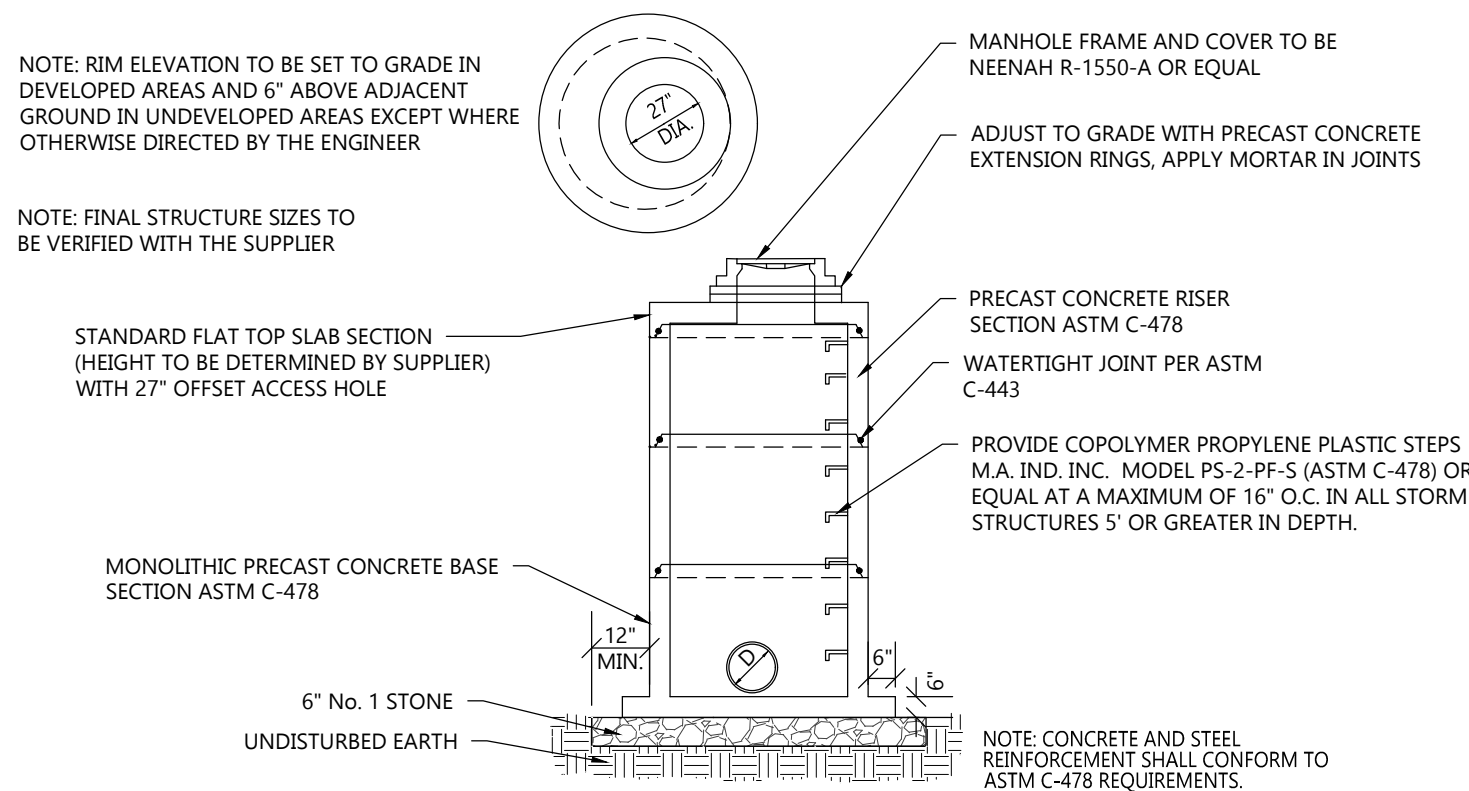
FLUSH WALK DETAIL

NOT TO SCALE



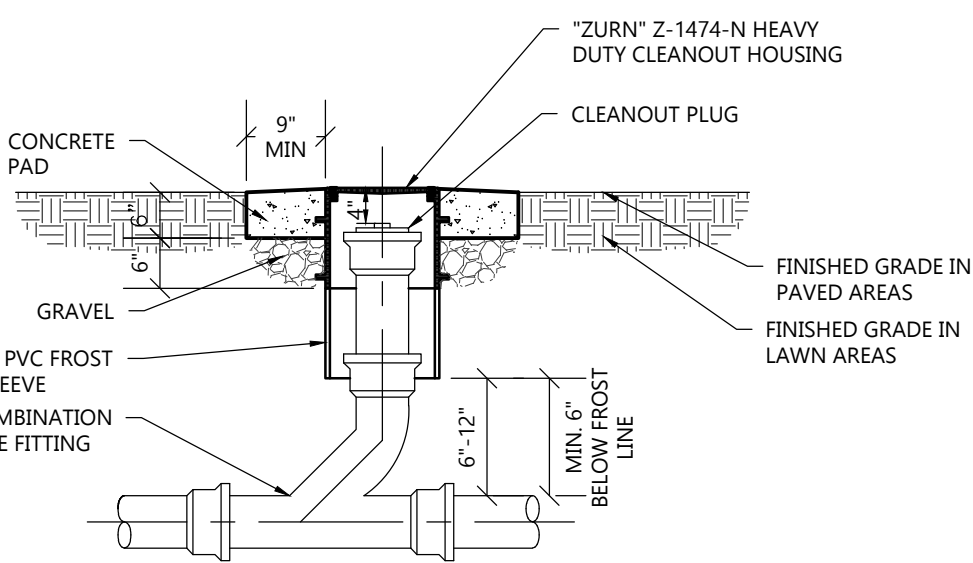
RAISED WALK DETAIL

NOT TO SCALE



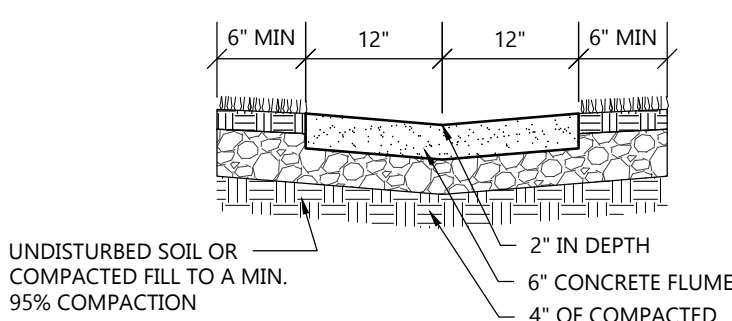
STORM MANHOLE DETAIL

NOT TO SCALE



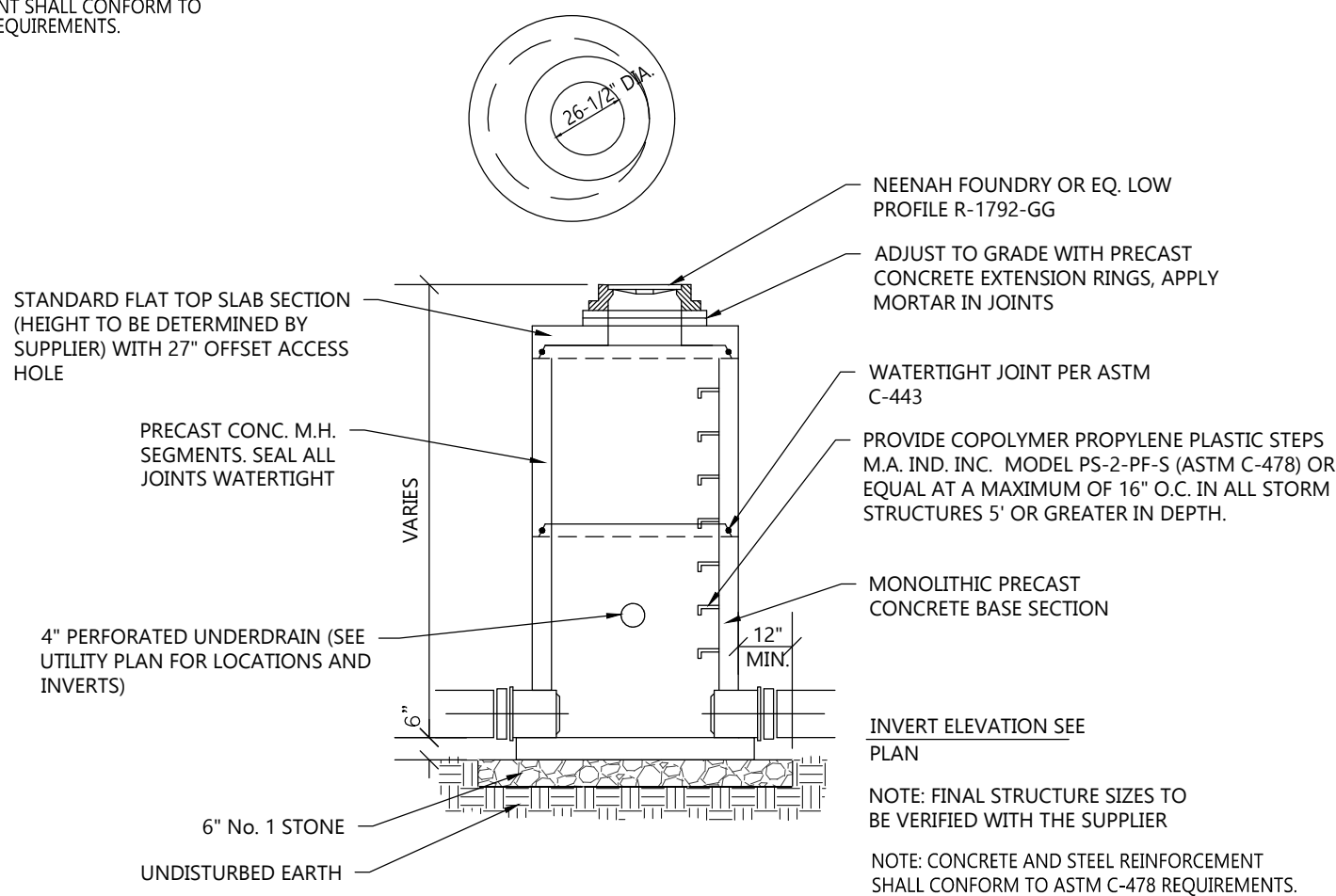
CLEANOUT TO GRADE DETAIL

NOT TO SCALE



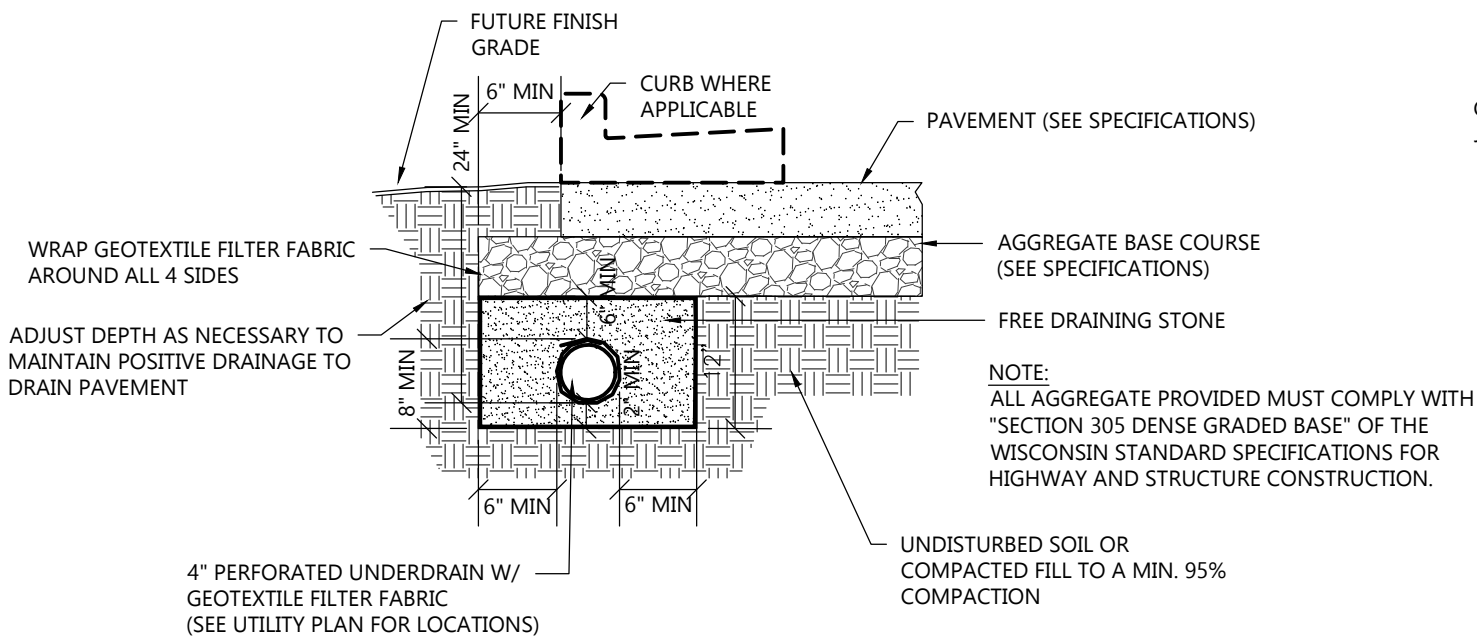
CONCRETE FLUME DETAIL (LAWN)

NOT TO SCALE



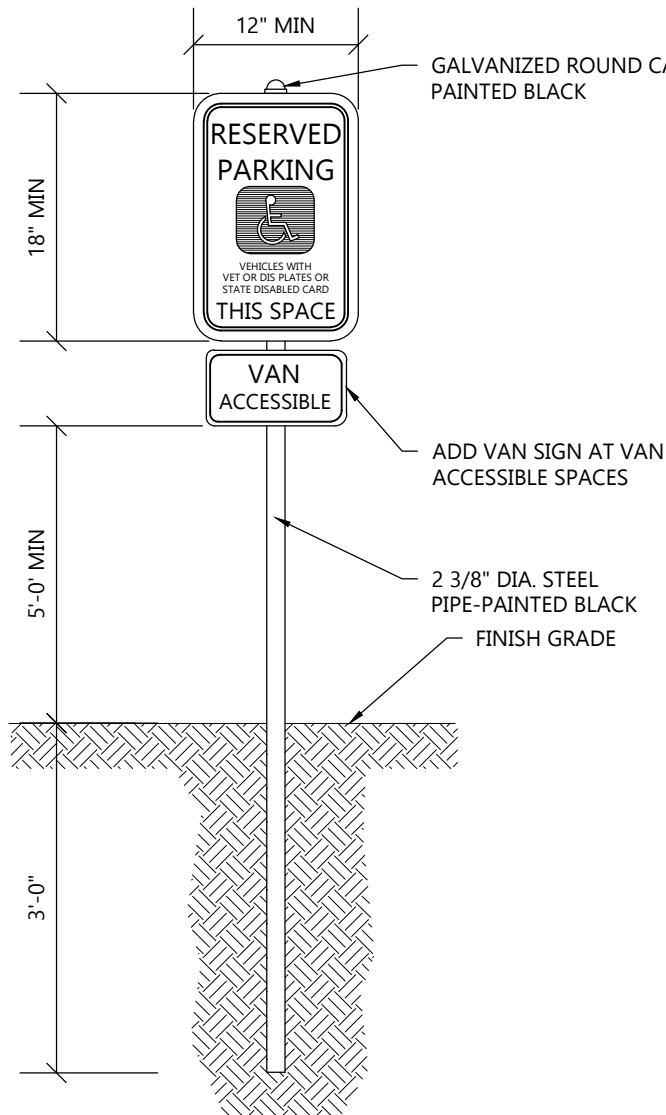
STORM CATCH BASIN DETAIL

NOT TO SCALE



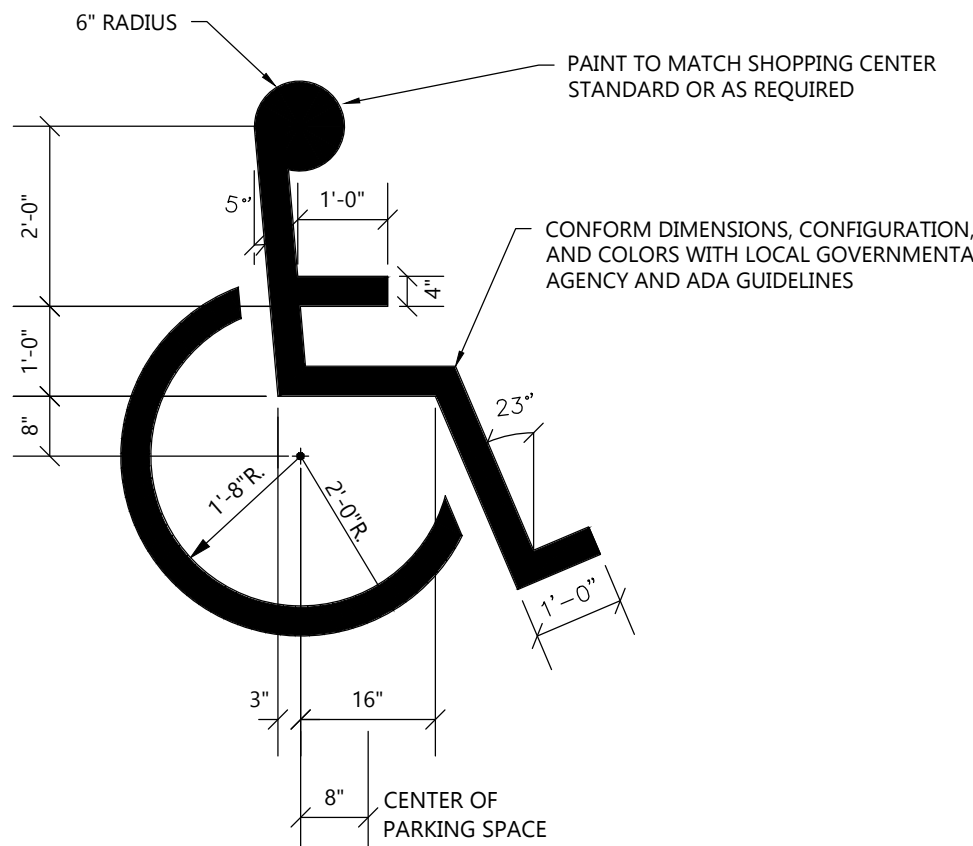
PAVING WITH UNDERDRAIN DETAIL

NOT TO SCALE



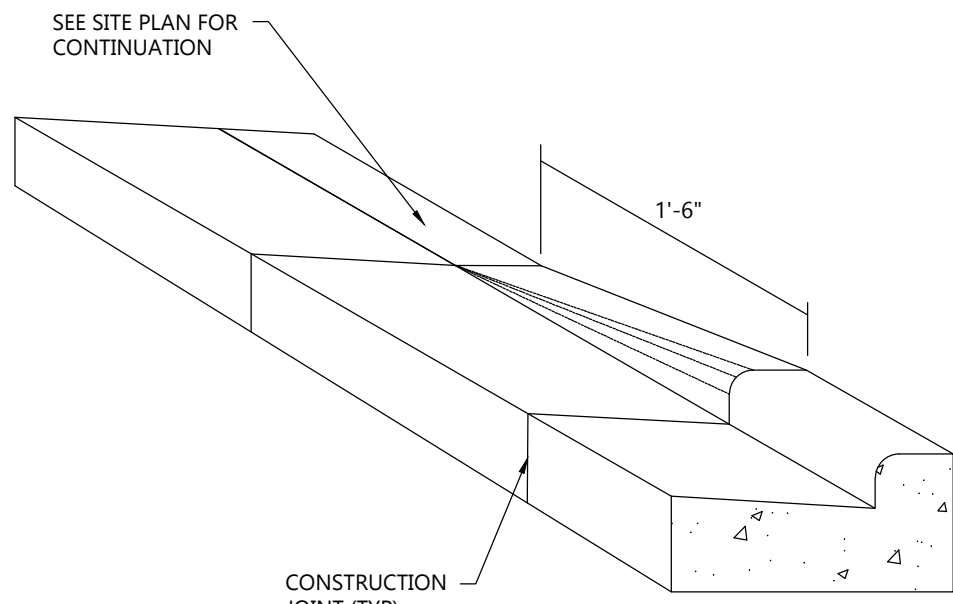
HANDICAP SIGNAGE WITHOUT CONCRETE BASE DETAIL

NOT TO SCALE



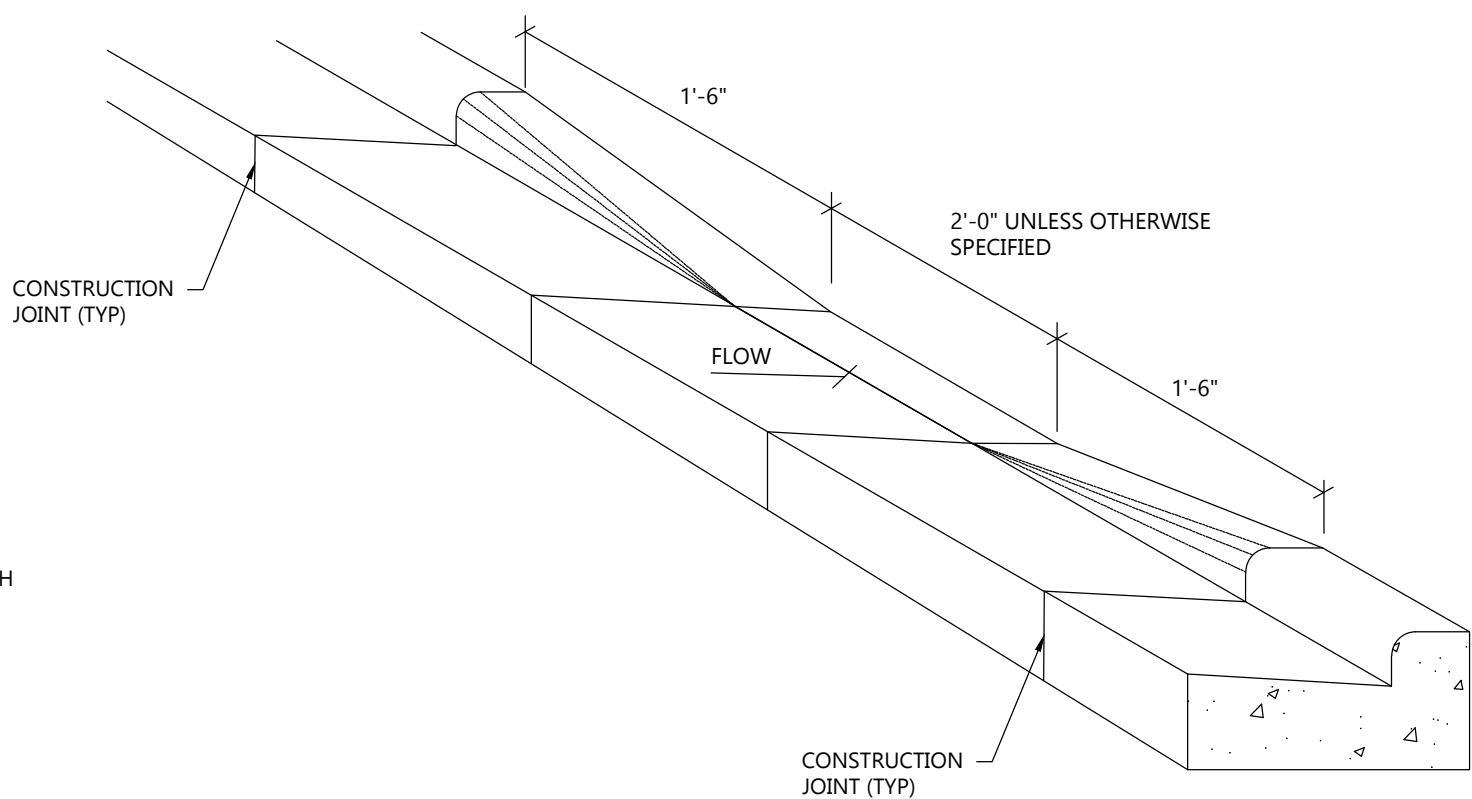
HANDICAP STALL SYMBOL

NOT TO SCALE



CURB TAPER DETAIL

NOT TO SCALE

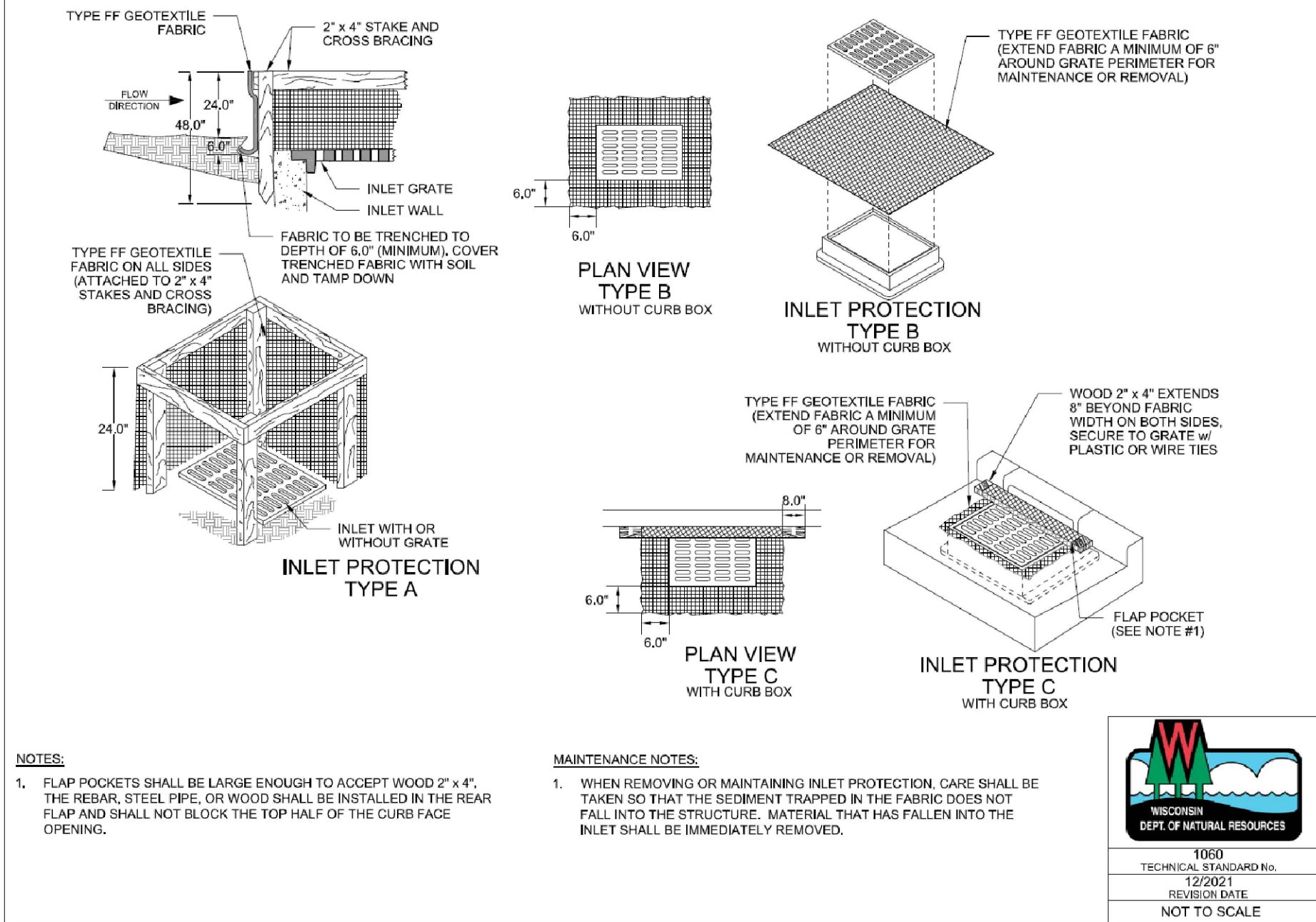


CURB CUT DETAIL

NOT TO SCALE



FIGURE 1. INLET PROTECTION TYPES A, B AND C



INLET PROTECTION DETAIL

NOT TO SCALE

### GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE WISCONSIN DEPARTMENT OF NATURAL RESOURCES TECHNICAL STANDARD NO. 1053 (CHANNEL EROSION MAT).

VARIATIONS IN THE DIMENSIONS OR MATERIALS SHOWN HEREON SHALL BE PERMITTED IF THEY PROVIDE EQUIVALENT PROTECTION AND MATERIAL STRENGTH AND IF PRIOR APPROVAL OF THE ENGINEER IS OBTAINED.

LAP JOINTS SHALL NOT BE PLACED IN THE BOTTOM OF V-SHAPED DITCHES.

JUNCTION SLOTS ON ADJACENT STRIPS OF MATTING SHALL BE STAGGERED A MINIMUM OF 4 FEET APART.

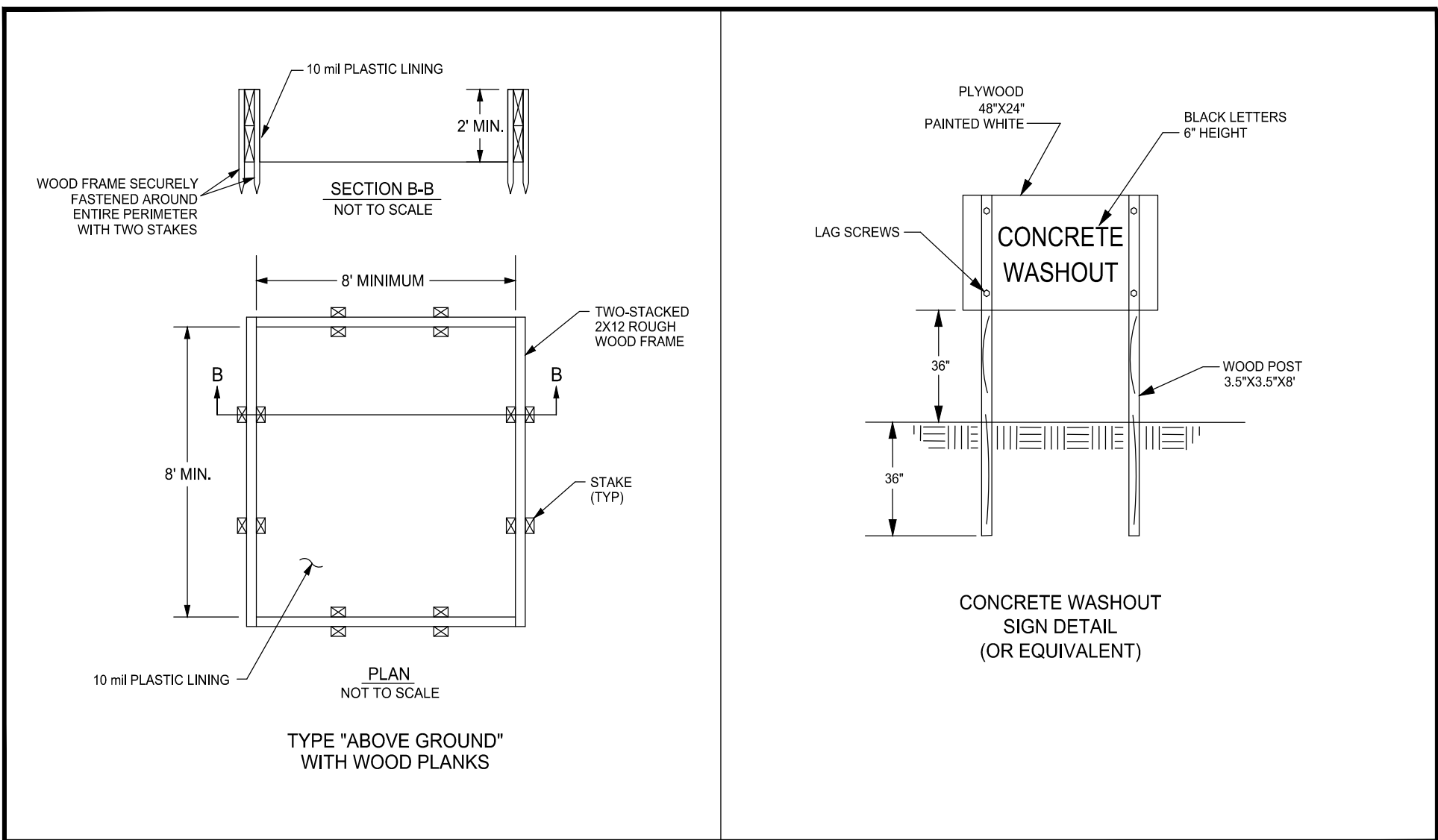
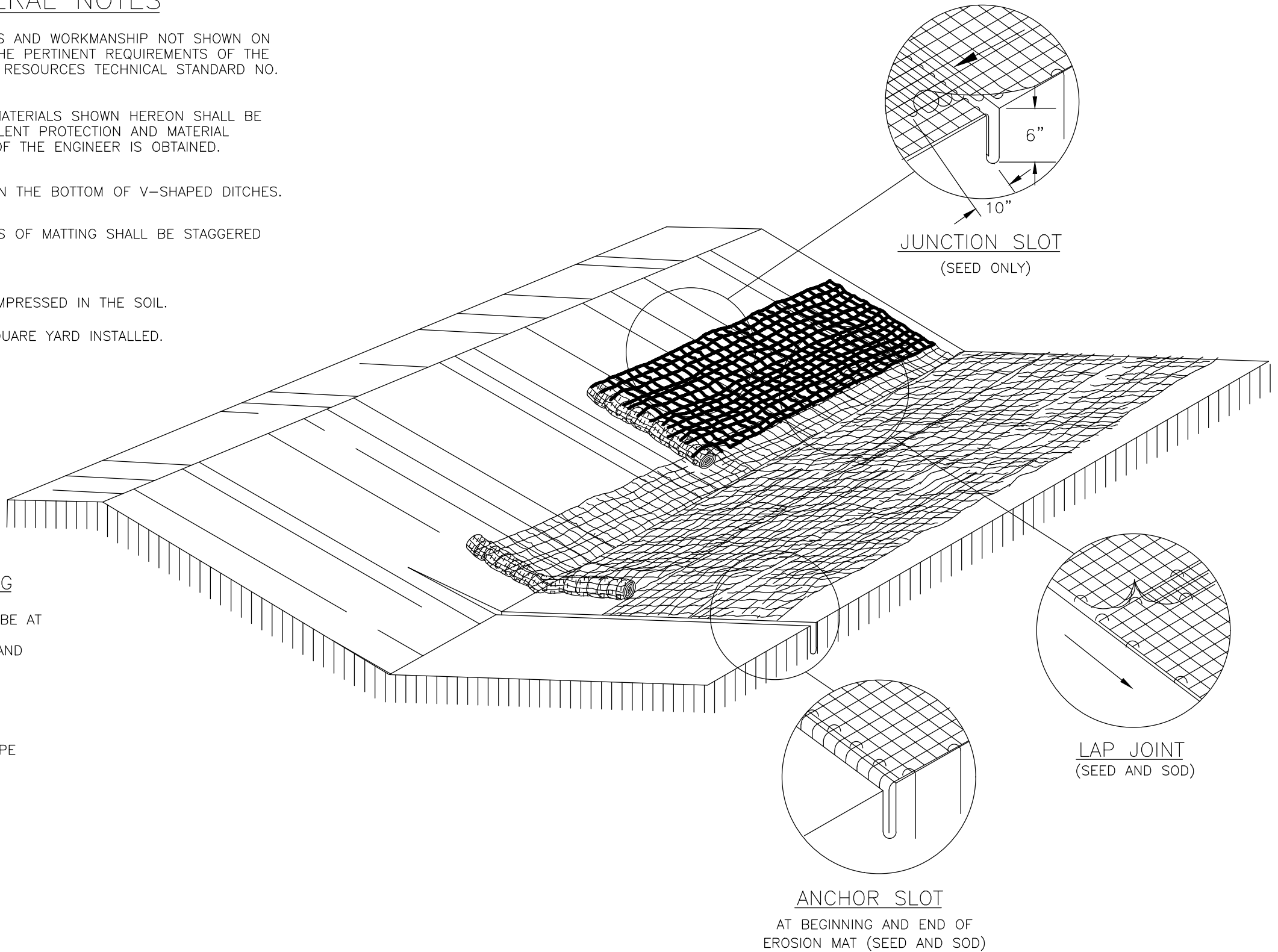
EDGES OF EROSION MAT SHALL BE IMPRESSED IN THE SOIL.

EROSION MAT SHALL PAID BY THE SQUARE YARD INSTALLED.

### EROSION MAT OVER SEEDING

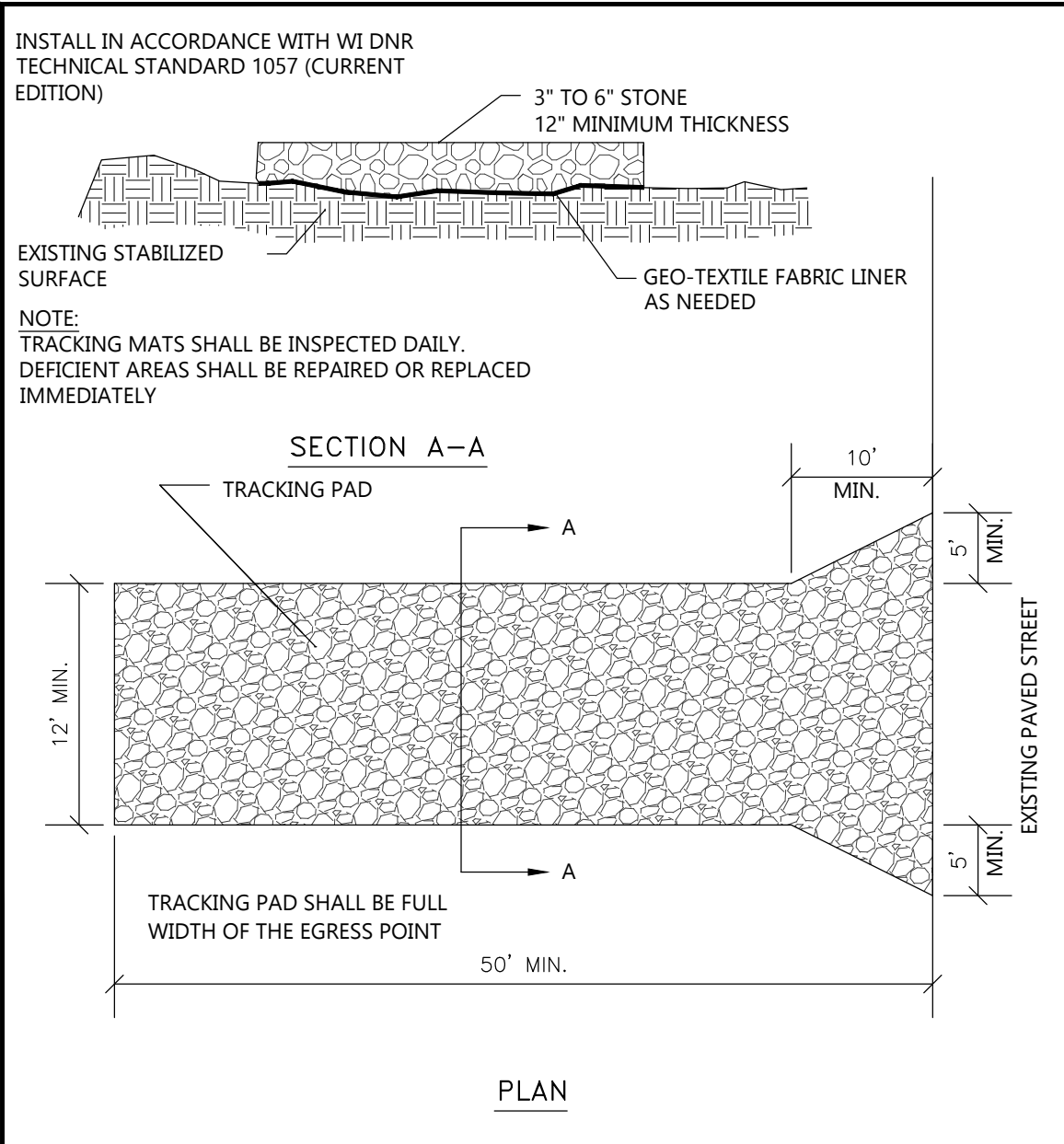
JUNCTION OR ANCHOR SLOTS SHALL BE AT MINIMUM INTERVALS OF 100 FEET ON GRADES UP TO AND INCLUDING 3%, AND 50 FEET ON GRADES EXCEEDING 3%.

**NOTE:**  
SEE SPECIFICATIONS FOR MATTING TYPE



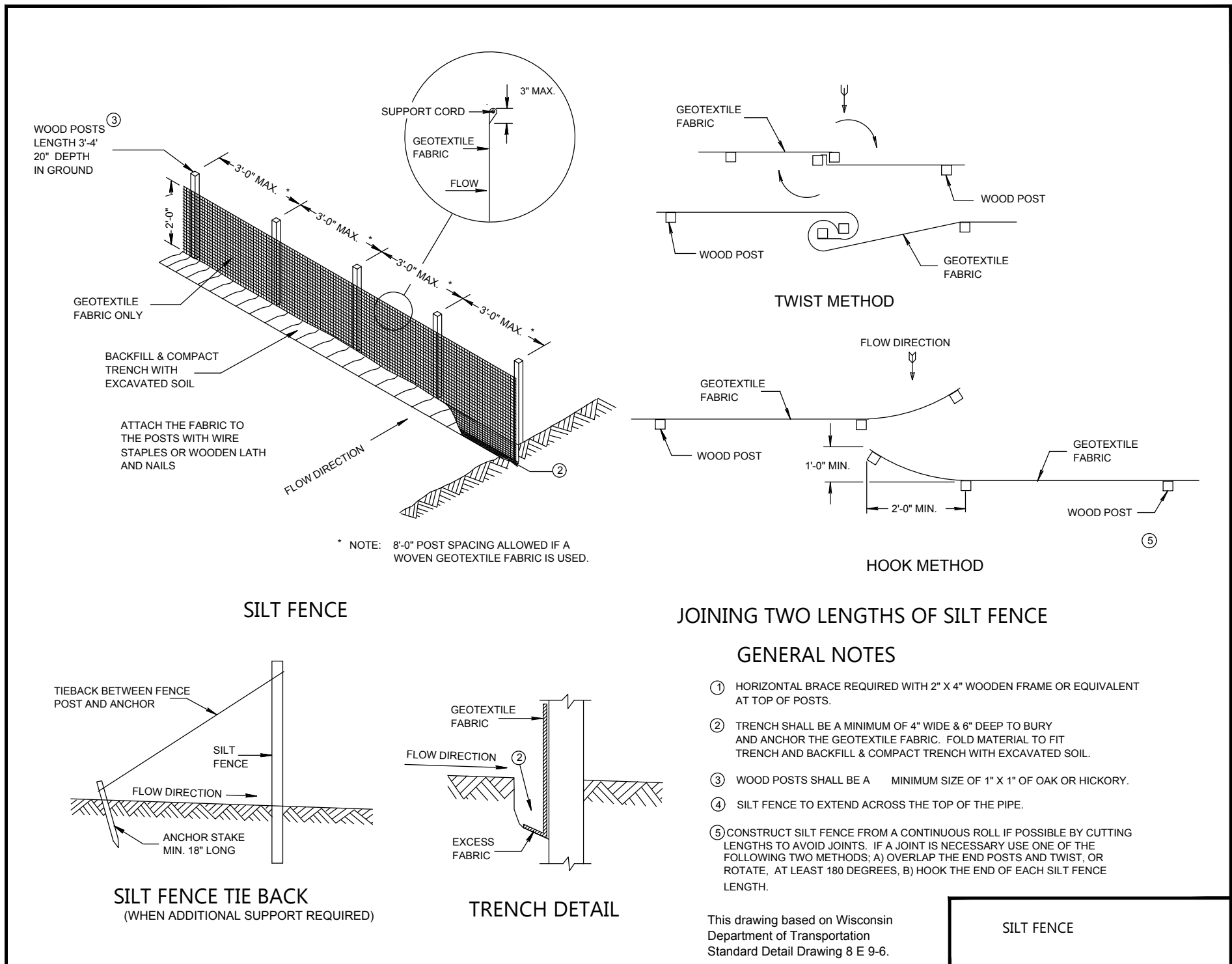
CONCRETE WASHOUT DETAIL

NOT TO SCALE



TRACKPAD DETAILS

NOT TO SCALE

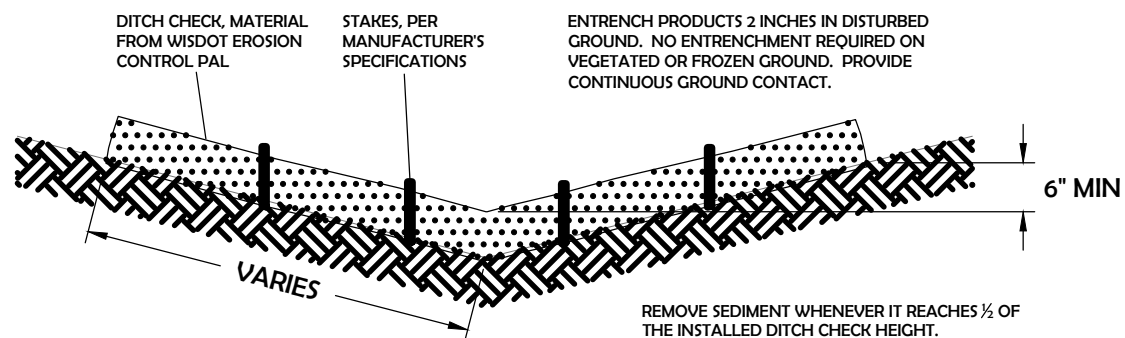


SILT FENCE - INSTALLATION DETAIL

NOT TO SCALE

### DITCH CHECK DETAIL

#### LOG-TYPE DITCH CHECK



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ENDEAVOR 2.0  
CIVIL DETAILS

C2.1









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ENDEAVOR 2.0

# CIVIL SITE PHOTOMETRIC PLAN & DETAILS

# C3.1

2024 © EXCEL ENGINEERING, INC.



OVERVIEW	
Lumen Package	7,000 - 55,000
Wattage Range	48 - 438
Efficacy Range (LPW)	115 - 162
Weight lbs(kg)	30 (13.6)
Control Options	DMSBT, ALB, A.L.S.

### FEATURES & SPECIFICATIONS

- Rugged die-cast aluminum housing contains factory prewired driver and optical unit. Cast aluminum wiring access door located underneath.
- Designed to mount to square or round

- Fixtures are finished with LSI's DuraGrip<sup>®</sup> polyester powder coat finishing process. The DuraGrip finish withstands extreme weather changes without cracking or peeling. Other standard LSI finishes available. Consult factory.

- Shipping weight: 37 lbs in carton.
- Optical System**
- State-of-the-Art one piece silicone optic sheet delivers industry leading optical control with an integrated gasket to provide IP66 rated sealed optical chamber in 1 piece.

- Proprietary silicone refractor optics provide exceptional coverage and uniformity in IES Types 2, 3, 4, 5W, FT, FTA, AM, and LC/RC.
- Silicone optical material does not yellow or crack with age and provides a typical light transmittance of 93-95%.

- Zero uplight.
- Available in 5000K, 4000K, and 3000K color temperatures per ANSI C78.377. Also Available in Phosphor Converted Amber with Peak intensity at 610nm.
- Minimum CRI of 70.

- Integral louver (IL) and integral half louver (IHL) options available for enhanced backlight control.
- 
-  LSI Industries Inc., 10000 Alliance Rd., Cincinnati, OH 45244

- Electrical**
- High-performance programmable driver features over-voltage, under-voltage, short-circuit and over temperature protection. Custom lumen and wattage packages available.
- costs while optimizing light quality 24/7. (see controls section for more details).
- Installation**
- Designed to mount to square or round poles.
  - A single fastener secures the fixture to the pole.

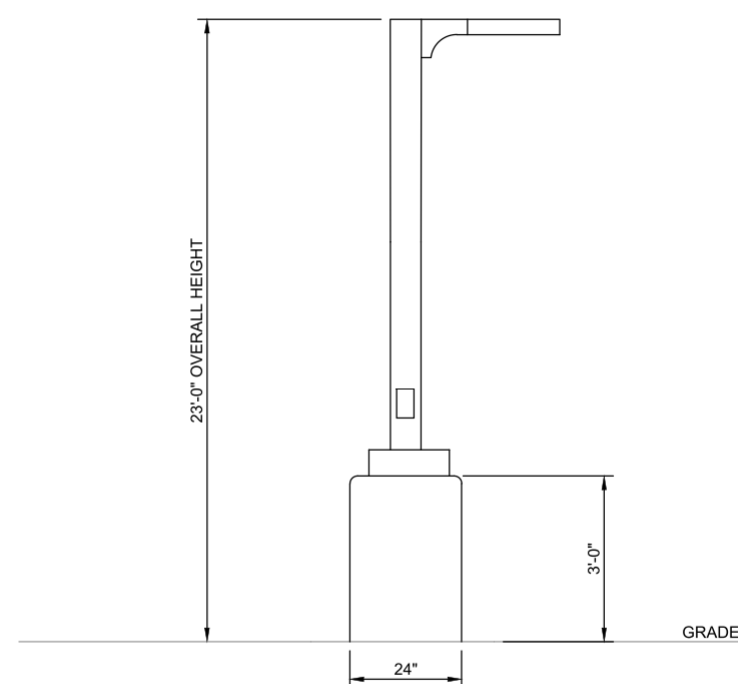
- 0-10V dimming (10-100%) standard.
- Standard Universal Voltage (20-277 Vac) Input 50/60 Hz or optional High Voltage (\$47-480 Vac).
- L80 Calculated Life: >100k Hours (See Lumen Maintenance chart)
- A single ribbed seal secures rim rings and covers underneath the housing and provides quick & easy access to the electrical compartment.
- Included terminal block accepts up to 12 wires.
- Utilizes LS's traditional 3" drill pattern B3

- Total harmonic distortion: <20%
  - Operating temperature: -40°C to +50°C (-40°F to +122°F). 42L and 48L lumen packages rated to +40°C. 55L lumen package rated to +35°C.
  - Power factor: >90
  - Input power at full load must not over life.
- for easy fastening of LSI products.
- Warranty**
- LSI LED Fixtures carry a 5-year warranty.
- Listings**
- Listed to UL 1598 and UL 8750.
  - Meets Basic American Art requirements.



- Input power stays constant over life.
- Field replaceable 10KV surge protection device meets a minimum Category C Low operation (per ANSI/IEEE C62.41.2).
- High-efficiency LEDs mounted to metal-core circuit board to maximize heat dissipation
- Components are fully encased in potting compound

- Ingress rated Luminaire per IEC 60598.
- 30 rated for ANSI C136.31 high vibration applications are qualified.
- DesignLights Consortium® (DLC) qualified product. Not all versions of this product may be DLC qualified. Please check the DesignLights Consortium website at [www.designlights.org/DLC](http://www.designlights.org/DLC) to confirm which versions are.

- Bluetooth® motion. Fixtures operate independently and can be commissioned via iOS or Android configuration app
- LSI's AirLink® wireless control system options reduce energy and maintenance



## LIGHT POLE DETAIL

Schedule									
Symbol	Label	Quantity	Manufacturer	Catalog Number	Description	Number Lamps	Lumens Per Lamp	Light Loss Factor	Wattage
	<b>L13H</b>	4	LSI INDUSTRIES, INC.	MRM-LED-07L-SIL-3-40-70CRI-1L		1	5261	0.9	48
	<b>L14H</b>	1	LSI INDUSTRIES, INC.	MRM-LED-12L-SIL-4-40-70CRI		1	12944	0.9	85

Statistics						
Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
Calc Zone #1	+	0.2 fc	2.8 fc	0.0 fc	N/A	N/A
PARKING LOT	X	1.2 fc	2.8 fc	0.4 fc	7.0:1	3.0:1





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PROFESSIONAL SEAL

PRELIMINARY DATES

NOV. 20, 2024

NOT FOR CONSTRUCTION

JOB NUMBER

240296000

SHEET NUMBER

A0.00



**CORNER TOWER**  
Tile  
Weathered Rustic  
Western States



**SIGNAGE**  
Go to page 26 for all building signage visuals. Go to [tacobellplans.com/library/catalogs/signage](https://tacobellplans.com/library/catalogs/signage) catalogs for all building sign info.



**SIDING**  
JAMES HARDIE  
Artisan V-Groove  
Worldly Gray (SW7043),  
Semi-Gloss



**SIDING**  
HARDIE REVEAL PANEL  
Reveal Panel System  
Purple (SW/TB2603C)



**SIDING**  
HARDIE REVEAL PANEL  
Reveal Panel System  
Cyberspace (SW7076)  
Semi Gloss





**WALL SCONCES**  
TROY  
17"X14" Wall mount  
scone, OLD silver finish,  
medium base socket, 100  
watt max

RENDERINGS ARE TACO BELL PROTOTYPE RENDERINGS. ACTUAL PROJECT PROPOSED TO FOLLOW THIS MATERIAL AND COLOR SELECTION.





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FRONT ELEVATION



BACK ELEVATION



SIDE ENTRY ELEVATION



DRIVE-THRU ELEVATION

RENDERINGS ARE TACO BELL PROTOTYPE RENDERINGS. ACTUAL PROJECT PROPOSED TO FOLLOW THIS MATERIAL AND COLOR SELECTION.



# MEMO

## PLANNING & COMMUNITY DEVELOPMENT

To: Plan Commission  
From: Adrienne Nelson, Associate Planner  
Date: November 27, 2024  
Re: Park Donation Application Review - Bench

A park bench donation application has been submitted by Gerald Haen, to be installed at Riverside Park in memory of his brother, Victor Haen. This bench would be in the City of Kaukauna's standard bench style and would include a plaque, which would read as follows:

"In loving memory  
Of Victor R. HAEN  
from his 3 brothers  
Thomas (Lynn) Gerald (Linda) and James"

### **Staff Recommendation**

Staff recommend approval of the park bench donation for Gerald Haen in memory of Victor Haen, and direct staff to work with the donor to finalize the location of the bench.