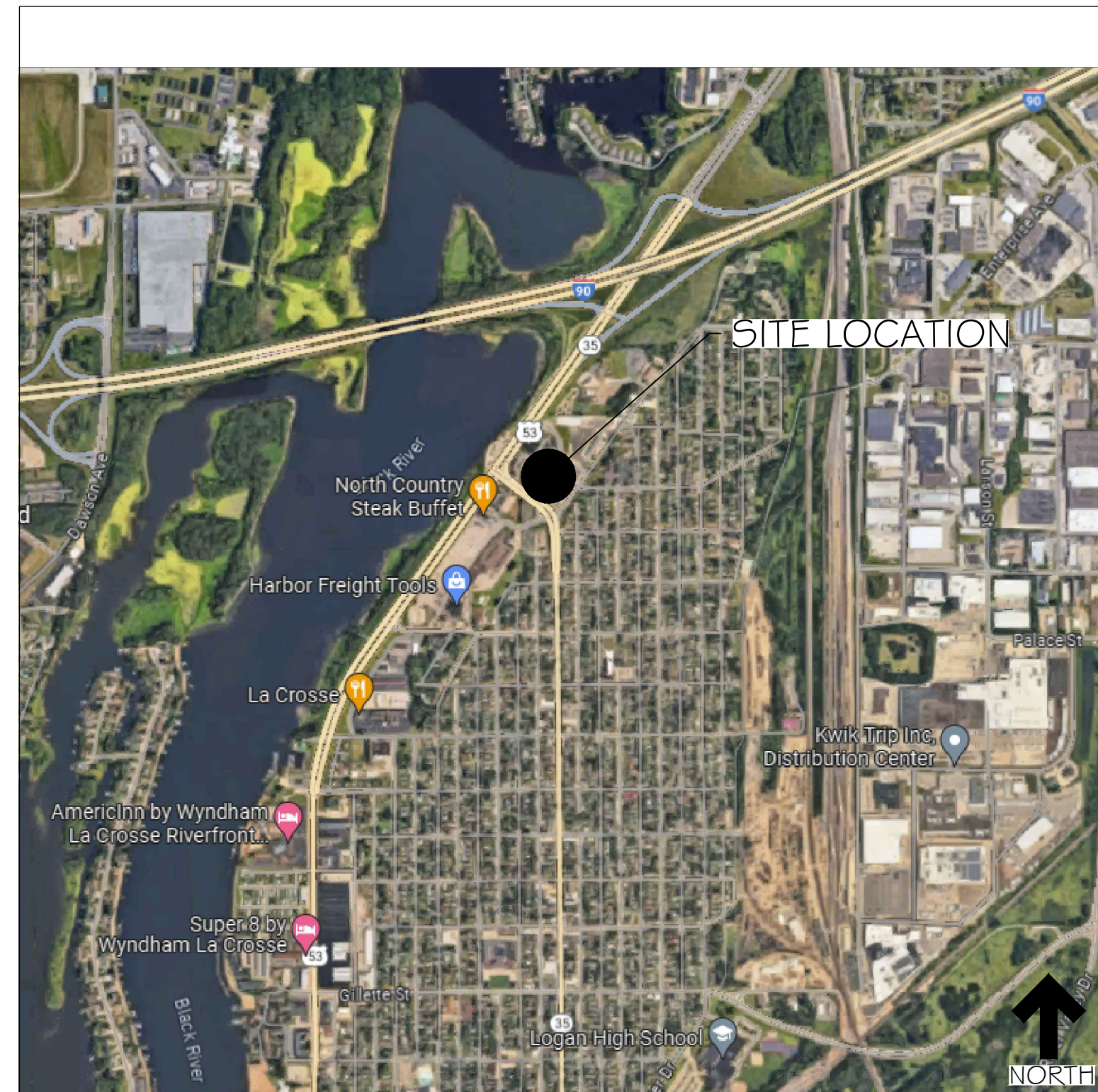


# SITE IMPROVEMENT PLANS FOR:

KWIK TRIP #762  
LA CROSSE, WI

SITE LOCATION MAP:



SITE AERIAL MAP:



DRAWING INDEX

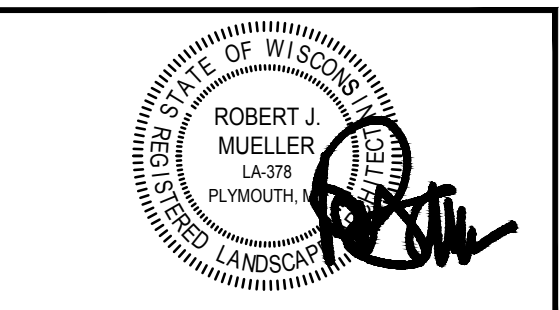
C001	TITLE SHEET
ALTA	ALTA SURVEY
G020	DEMO PLAN
C100	SITE KEYNOTE PLAN
C180	SITE CIRCULATION PLAN
C181	SITE DIMENSION PLAN
C200	GRADE PLAN
C201	GRADE PLAN DETAIL
G202	GRADE PLAN SPOT DETAIL
G203	ACCESSIBILITY PLAN
C300	STORM SEWER PLAN
C301	STORM SEWER NOTES & DETAILS
C400	UTILITY PLAN
C401	UTILITY NOTES & DETAILS
C500	SITE PLAN DETAILS
C501	SITE PLAN DETAILS
C502	SITE PLAN DETAILS (WI DOT)
C600	EROSION CONTROL PLAN
C601	EROSION CONTROL NOTES
C602	EROSION CONTROL DETAILS
C603	EROSION CONTROL DETAILS
C700	LANDSCAPE PLAN
C800	PHOTOMETRIC SITE PLAN

**KWIK TRIP**

**KWIK STAR**

**KWIK TRIP, Inc.**  
P.O. BOX 2107  
1626 OAK STREET  
LACROSSE, WI 54602-2107  
PH. (608) 781-8988  
FAX (608) 781-8960

**INSITES**  
SITE PLANNING LANDSCAPE ARCHITECTURE  
3131 Fernbrook Lane North, STE 260  
Plymouth, Minnesota 55447  
763.383.8400  
fax 763.383.8400



TITLE SHEET

CONVENIENCE STORE 762

LA CROSSE, WISCONSIN

OWNER:  
KWIK TRIP INC.  
1626 OAK STREET  
LA CROSSE, WI 54602  
NATE BYOM  
nbyom@kwiktrip.com

SITE PLANNER:  
INSITES SITE PLANNING  
3131 FERNBROOK LN N, SUITE 260  
PLYMOUTH, MN 55447  
BOB MUELLER  
763-383-8400  
Bob@insitesinc.net

CIVIL ENGINEER:  
SUNDE ENGINEERING  
10830 NESBITT AVE SOUTH  
BLOOMINGTON, MN 55437  
952-881-3344

ARCHITECT:  
VANTAGE ARCHITECTS  
750 3RD ST N, SUITE F  
LA CROSSE, WI 54601  
608-784-2729

SURVEYOR:  
PARAGON ASSOCIATES  
632 COPELAND AVE,  
LA CROSSE, WI 54603  
608-781-3110

NO.	DATE	DESCRIPTION
-	04JAN24	SUBMITTAL
-	17JAN24	CITY SUBMITTAL

DRAWN BY: \_\_\_\_\_ SCALE: \_\_\_\_\_ GRAPHIC  
PROJ. NO. 23-762  
DATE 2023-12-22  
SHEET

**C001**

INSITES 23-029 PM.FLB



BY	
REVISIONS	

**PARAGON ASSOCIATES**  
 Environmental Design & Consulting  
 CIVIL ENGINEERING · LANDSCAPE ARCHITECTURE · SURVEYING  
 632 COPELAND AVENUE · LA CROSSE, WI 54603  
 Tel. 608.781.3110 Fax. 608.781.3197 Paragon-Assoc.biz

ALTA/NSPS LAND TITLE SURVEY  
 1133 GEORGE STREET/2622 ROSE STREET  
 LA CROSSE, WI 54601

DATE	9-14-23
CAD FILE	23-078 AT STDR 782
PROJECT NUMBER	23-078 AT STDR 782
SHEET	1 of 1

# ALTA/NSPS LAND TITLE SURVEY

## FLOOD ZONE CLASSIFICATION

PROPERTY AS DESCRIBED IN DESCRIPTION FALLS WITHIN FIRM MAP NUMBER 5006302210 WITH AN EFFECTIVE DATE OF APRIL 2008 AND A REVISED DATE OF JANUARY 6, 2012. MAP SHOWS PROPERTY AS BEING IN ZONE X AND POSSIBLE ZONE AE ON OUTSIDE PERMITS OF PROPERTY. THE BASE FLOOD ELEVATION PER FEMA FLOOD MAP LISTED ABOVE IS 644.00.

## ALTA CERTIFICATE

TO KMK TRIP, INC., A WISCONSIN CORPORATION, KNIGHT BARRY TITLE UNITED LLC AND FIRST AMERICAN TITLE INSURANCE COMPANY,  
 REGARDING TITLE COMMITMENT NUMBER  
 FILE NUMBER 2229235 & 2229236  
 THIS IS TO CERTIFY THAT THIS MAP OR PLAT AND THE SURVEY ON WHICH IT IS BASED WERE MADE IN ACCORDANCE WITH MINIMUM STANDARD DETAIL REQUIREMENTS FOR ALTA/NSPS LAND TITLE SURVEYS, JOINTLY ESTABLISHED AND ADOPTED BY ALTA ON OCTOBER 1, 2020 AND NSPS ON OCTOBER 30, 2020, INCLUDING ITEMS 1, 2, 3, 4, 5, 6, 7a, 8, 9, 11(a), 8, 9, 14, 17, 19 AND 20 (G) OF TABLE A THEREOF, PURSUANT TO THE ACCURACY STANDARDS AS ADOPTED BY ALTA AND NSPS AND TO EXTEND THE DOWNSIDE OF THIS CERTIFICATION INsofar AS FURTHER CERTIFIES THAT IN MY PROFESSIONAL OPINION, AS A PROFESSIONAL LAND SURVEYOR IN THE STATE OF WISCONSIN, THE RELATIVE POSITIONAL ACCURACY OF THIS SURVEY DOES NOT EXCEED THAT WHICH IS SPECIFIED THEREIN.

## SURVEY CERTIFICATE

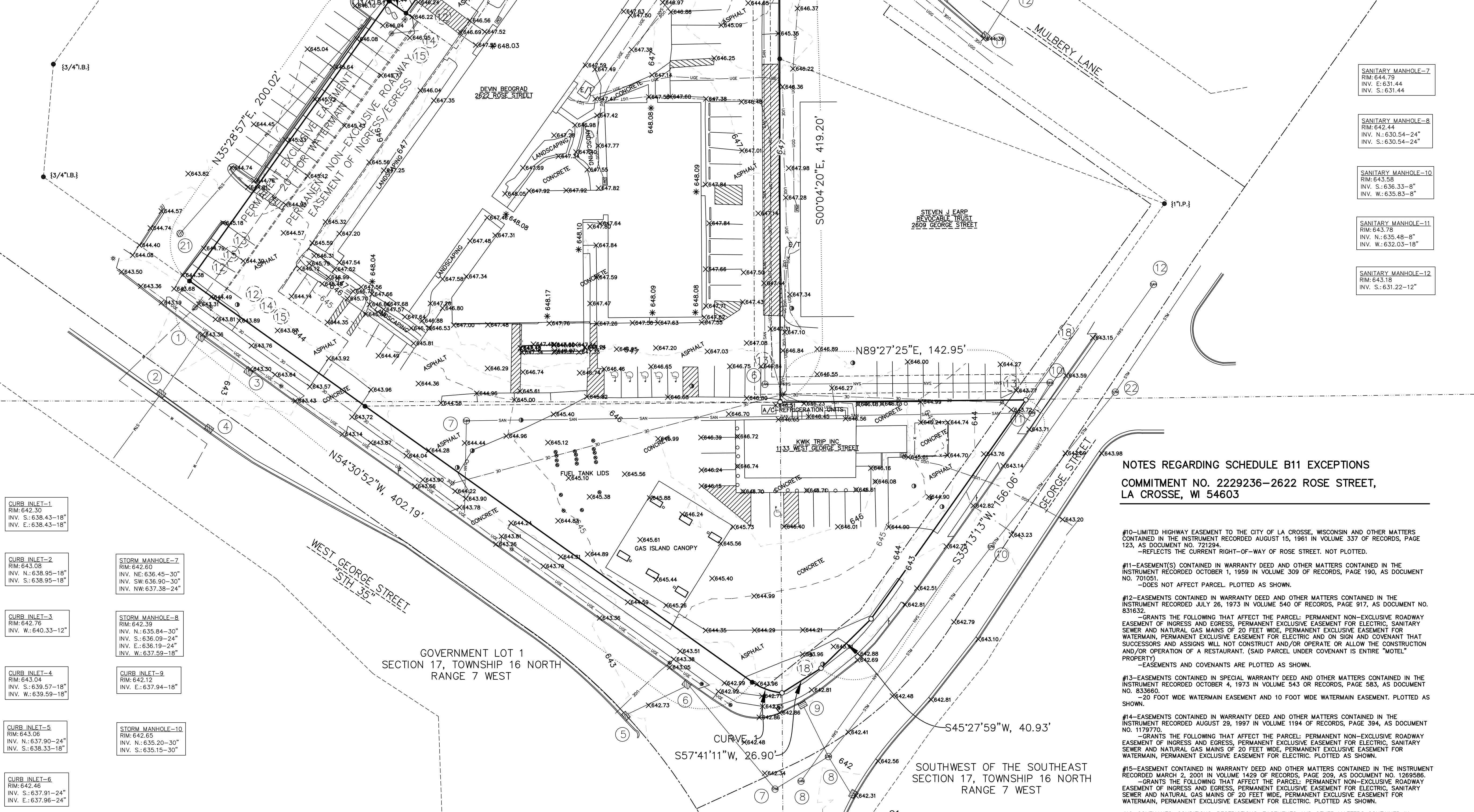
I, JACOB K. STEPHENSON, PROFESSIONAL LAND SURVEYOR #3076, HEREBY CERTIFY THAT I HAVE SURVEYED AND MAPPED THE ABOVE PARCEL, AT THE DIRECTION OF KMK TRIP, INC., AND THE ATTACHED MAP IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

FILE NUMBER: 2229235 & 2229236  
 1133 GEORGE STREET  
 C2-COMMERCIAL  
 2622 ROSE STREET  
 C2-COMMERCIAL  
 REQUIRED SETBACKS:  
 C1-LOCAL BUSINESS  
 FRONT-0 FEET  
 SIDE-0 OR 6 FEET IF ABUTTING A RESIDENTIAL ZONING DISTRICT  
 REAR-20 FEET  
 C2-COMMERCIAL  
 FRONT-0 FEET  
 SIDE-0 OR 6 FEET IF ABUTTING A RESIDENTIAL ZONING DISTRICT  
 REAR-9 OR 20 FEET IF INCLUDES DWELLING UNITS  
 HEIGHT & FLOOR AREA RESTRICTIONS  
 C1-LOCAL BUSINESS  
 HEIGHT-45 FEET OR 3 STORIES  
 FLOOR AREA-1 DWELLING UNIT FOR EACH 1,000 SQ. FT. OF LOT AREA  
 C2-COMMERCIAL  
 HEIGHT-100 FEET OR 8 STORIES  
 FLOOR AREA-1 DWELLING UNIT FOR EACH 1,000 SQ. FT. OF LOT AREA  
 PARKING REQUIREMENTS  
 NONE  
 SIGN CODE ORDINANCE  
 SEE CHAPTER 111 OF MUNICIPAL CODE  
 WELLHEAD PROTECTION AREA  
 BOTH PROPERTIES ARE NOT WITHIN A WELLHEAD PROTECTION AREA

SECTION TIE TO BOUNDARY  
 SOUTHWEST CORNER TO SOUTH 1/4 OF SECTION 17 TO SOUTH 1/4-5892'22"W, 2638.56'  
 SOUTH 1/4 TO NORTHWEST CORNER OF THE SOUTHWEST OF THE SOUTHWEST-N002'11"W, 1323.03'

GOVERNMENT LOT 2  
 SECTION 17, TOWNSHIP 16 NORTH  
 RANGE 7 WEST

GOVERNMENT LOT 2  
 SECTION 17, TOWNSHIP 16 NORTH  
 RANGE 7 WEST

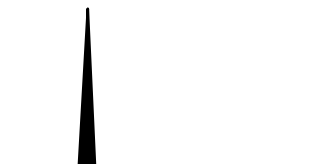
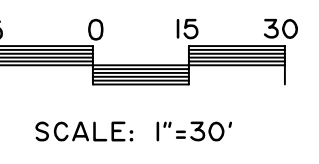


## PROJECT BENCHMARKS

CP1: N:14914.05	E:44824.15	Z:646.39	DESC: LANDSCAPE SPIKE
CP2: N:14899.27	E:44849.50	Z:643.86	DESC: LANDSCAPE SPIKE
CP3: N:14873.51	E:44798.61	Z:644.78	DESC: LANDSCAPE SPIKE
CP4: N:14904.83	E:44826.21	Z:646.56	DESC: LANDSCAPE SPIKE
CP5: N:14873.82	E:44821.24	Z:647.09	DESC: PK NAIL

## LEGEND

- FOUND SECTION CORNER (AS NOTED)
- SET 3/4" x 18" IRON BAR (1.5 LBS/LIN FT)
- FOUND 1 1/2" IRON PIPE (UNLESS NOTED)
- \* FLOOR ELEVATION
- SPOT ELEVATION
- E/T ELECTRICAL TRANSFORMER (OR BOX)
- IB IRON BAR
- IP IRON PIPE
- T/PEDESTAL TELEPHONE PEDESTAL
- TNH TOP NUT HYDRANT
- PLATTED OR RIGHT OF WAY LINES
- SECTION OR QUARTER LINE
- UTILITY EASEMENT
- SANITARY SEWER MANHOLE
- SANITARY SEWER LINE
- STORM SEWER MANHOLE
- STORM SEWER LINE
- CATCH BASIN
- CURB INLET
- WATER LINE
- HYDRANT
- WATER MANHOLE
- WATER VALVE
- CURB STOP
- AIR CONDITIONER
- UTILITY PEDESTAL
- UNDERGROUND FIBER OPTIC
- UNDERGROUND GAS
- GAS VALVE
- GAS METER
- UNDERGROUND ELECTRIC
- UNDERGROUND TELEPHONE
- TELEPHONE MANHOLE
- UNDERGROUND TELEVISION
- OVERHEAD UTILITY LINES
- LIGHT POLE
- UTILITY POLE
- UTILITY POLE W/GUY WIRE
- SIGNS
- BOLLARD
- CHAIN LINK FENCE (UNLESS NOTED)
- CONIFEROUS TREE
- DECIDUOUS TREE
- SHRUB
- FUEL TANK LID
- ELECTRIC MANHOLE
- TRAFFIC SIGNAL POST



BASIS FOR BEARINGS  
 SOUTH LINE OF THE SOUTHEAST QUARTER OF SECTION 17, TOWNSHIP 16 NORTH, RANGE 7 WEST, LA CROSSE COUNTY, WISCONSIN. ASSUMED TO BEAR: S89°25'22\"/>

NOTES REGARDING SCHEDULE B11 EXCEPTIONS  
 COMMITMENT NO. 2229235-1133 GEORGE STREET  
 WEST, LA CROSSE, WI 54603

NOTES REGARDING SCHEDULE B11 EXCEPTIONS  
 COMMITMENT NO. 2229236-2622 ROSE STREET,  
 LA CROSSE, WI 54603

#10-COVENANTS, CONDITIONS, RESTRICTIONS AND OTHER MATTERS CONTAINED IN WARRANTY DEED RECORDED ON JUNE 22, 1983 IN VOLUME 694 OF RECORDS, PAGE 848, AS DOCUMENT NO. 938861.  
 -UNABLE TO PLOT THE COVENANT OF NOT MORE THAN 25 PERCENT OF THEIR DOLLAR VOLUME DERIVED FROM THE BUSINESS CONDUCTED ON THE PROPERTY SHALL RESULT FROM THE SALE OF HAMBURGERS, SAID COVENANT IS TO RUN WITH THE LAND, SO LONG AS SELLER, ITS SHAREHOLDERS, SUCCESSORS OR ASSIGNS OPERATES A MCDONALD HAMBURGER TYPE OF BUSINESS WITHIN A ONE-HALF MILE RADIUS OF THE REAL ESTATE HEREIN CONVEYED.  
 #11-EASEMENT DEED AND OTHER MATTERS CONTAINED IN THE INSTRUMENT RECORDED NOVEMBER 30, 1940 IN VOLUME 181 OF RECORDS, PAGE 114, AS DOCUMENT NO. 403834.  
 -EASEMENT FOR SANITARY SEWER INTERCEPTOR LINE, DOES NOT AFFECT SAID PARCEL AND UNABLE TO PLOT.

#10-LIMITED HIGHWAY EASEMENT TO THE CITY OF LA CROSSE, WISCONSIN AND OTHER MATTERS CONTAINED IN THE INSTRUMENT RECORDED AUGUST 15, 1961 IN VOLUME 337 OF RECORDS, PAGE 123, AS DOCUMENT NO. 721294.  
 -REFLECTS THE CURRENT RIGHT-OF-WAY OF ROSE STREET, NOT PLOTTED.  
 #11-EASEMENT(S) CONTAINED IN WARRANTY DEED AND OTHER MATTERS CONTAINED IN THE INSTRUMENT RECORDED AUGUST 15, 1961 IN VOLUME 309 OF RECORDS, PAGE 190, AS DOCUMENT NO. 701051.  
 -DOES NOT AFFECT PARCEL PLOTTED AS SHOWN.  
 #12-EASEMENTS CONTAINED IN WARRANTY DEED AND OTHER MATTERS CONTAINED IN THE INSTRUMENT RECORDED JULY 28, 1973 IN VOLUME 540 OF RECORDS, PAGE 917, AS DOCUMENT NO. 831632.  
 -GRANTS THE FOLLOWING THAT AFFECT THE PARCEL: PERMANENT NON-EXCLUSIVE ROADWAY EASEMENT OF INGRESS AND EGRESS, PERMANENT EXCLUSIVE EASEMENT FOR ELECTRIC, SANITARY SEWER AND NATURAL GAS MAINS OF 20 FEET WIDE, PERMANENT NON-EXCLUSIVE ROADWAY EASEMENT FOR WATER, PERMANENT EXCLUSIVE EASEMENT FOR ELECTRIC AND ON SIGN COVENANT THAT SUCCESSORS AND ASSIGNS WILL NOT CONSTRUCT AND/OR OPERATE OR ALLOW THE CONSTRUCTION AND/OR OPERATION OF A RESTAURANT, (SAID PARCEL, UNDER COVENANT IS ENTIRE "MOTEL" PROPERTY).  
 -EASEMENTS AND COVENANTS ARE PLOTTED AS SHOWN.  
 #13-EASEMENTS CONTAINED IN SPECIAL WARRANTY DEED AND OTHER MATTERS CONTAINED IN THE INSTRUMENT RECORDED OCTOBER 4, 1973 IN VOLUME 543 OF RECORDS, PAGE 983, AS DOCUMENT NO. 835666.  
 -20 FOOT WIDE WATERMAIN EASEMENT AND 10 FOOT WIDE WATERMAIN, PLOTTED AS SHOWN.  
 #14-EASEMENTS CONTAINED IN WARRANTY DEED AND OTHER MATTERS CONTAINED IN THE INSTRUMENT RECORDED AUGUST 29, 1997 IN VOLUME 1194 OF RECORDS, PAGE 394, AS DOCUMENT NO. 1179770.  
 -GRANTS THE FOLLOWING THAT AFFECT THE PARCEL: PERMANENT NON-EXCLUSIVE ROADWAY EASEMENT OF INGRESS AND EGRESS, PERMANENT EXCLUSIVE EASEMENT FOR ELECTRIC, SANITARY SEWER AND NATURAL GAS MAINS OF 20 FEET WIDE, PERMANENT EXCLUSIVE EASEMENT FOR WATER, PERMANENT EXCLUSIVE EASEMENT FOR ELECTRIC, PLOTTED AS SHOWN.  
 #15-EASEMENT CONTAINED IN WARRANTY DEED AND OTHER MATTERS CONTAINED IN THE INSTRUMENT RECORDED MARCH 2, 2001 IN VOLUME 1429 OF RECORDS, PAGE 209, AS DOCUMENT NO. 1269586.  
 -GRANTS THE FOLLOWING THAT AFFECT THE PARCEL: PERMANENT NON-EXCLUSIVE ROADWAY EASEMENT OF INGRESS AND EGRESS, PERMANENT EXCLUSIVE EASEMENT FOR ELECTRIC, SANITARY SEWER AND NATURAL GAS MAINS OF 20 FEET WIDE, PERMANENT EXCLUSIVE EASEMENT FOR WATER, PERMANENT EXCLUSIVE EASEMENT FOR ELECTRIC, PLOTTED AS SHOWN.  
 #16-COVENANTS, CONDITIONS, RESTRICTIONS, EASEMENTS AND OTHER MATTERS CONTAINED IN RECIPROCAL EASEMENT AGREEMENT WITH COVENANTS, CONDITIONS AND RESTRICTIONS RECORDED ON AUGUST 5, 2004, AS DOCUMENT NO. 1400833.  
 -REFERS TO PROPERTY LOCATED TO THE NORTHWEST AND HAS NO EFFECT ON THIS SURVEY.  
 #17-COVENANTS, CONDITIONS, RESTRICTIONS, EASEMENTS AND OTHER MATTERS CONTAINED IN RESTATED AND AMENDED SHARED ACCESS EASEMENT AND SIGNAGE AGREEMENT RECORDED ON MAY 11, 2004, AS DOCUMENT NO. 1393259.  
 -REFERS TO INGRESS/EGRESS EASEMENTS CONVEYED BETWEEN, AT THE TIME PROPERTY OWNERS OF WALGREENS AND GAS MAINS LOCATED TO THE NORTHWEST SIDE OF MOTEL PROPERTY AS PLOTTED. ABSOLUTE LEGAL DESCRIPTION OF EASEMENT. REFER TO EXHIBIT C OF DOCUMENT TO SEE APPROPRIATE AREA OF EASEMENTS.  
 #18-EASEMENTS CONTAINED IN TRANSPORTATION PROJECT PLAT NO. 1071-06-23-4-01 AND OTHER MATTERS CONTAINED IN THE INSTRUMENT RECORDED JANUARY 8, 2016 AS DOCUMENT NO. 1668950.  
 -FILE AND FEE ON CURRENT KMK TRIP PROPERTY AS PLOTTED.  
 #19-MORTGAGE FROM DIVNA BEGOARD, LLC TO COMMUNITY CREDIT UNION IN THE AMOUNT OF \$810,000.00 DATED DECEMBER 4, 2009 AND RECORDED DECEMBER 8, 2009, AS DOCUMENT NO. 1543258.  
 -DOES NOT AFFECT PARCEL IN A SURVEY MATTER.  
 #20-ASSIGNMENT OF RENTS FROM DIVNA BEGOARD, LLC TO COMMUNITY CREDIT UNION RECORDED DECEMBER 8, 2009 AS DOCUMENT NO. 1540229.  
 -DOES NOT AFFECT PARCEL IN A SURVEY MATTER.  
 #21-MORTGAGE FROM DIVNA BEGOARD, LLC, A WISCONSIN LIMITED LIABILITY COMPANY TO VERVE, A CREDIT UNION IN THE AMOUNT OF \$40,000.00 DATED FEBRUARY 25, 2016 AND RECORDED MARCH 10, 2016 AS DOCUMENT NO. 1671044.  
 -DOES NOT AFFECT PARCEL IN A SURVEY MATTER.

DESCRIPTION-FILE NO. 2229235-1133 GEORGE STREET  
 WEST, LA CROSSE, WI 54603

DESCRIPTION-FILE NO. 2229236-2622 ROSE STREET,  
 LA CROSSE, WI 54603

PART OF FRACTIONAL LOT 1 AND PART OF THE SW 1/4 OF THE SE 1/4 OF SECTION 17, TOWNSHIP 16 NORTH, RANGE 7 WEST, IN THE CITY OF LA CROSSE, LA CROSSE COUNTY, WISCONSIN, BEING A PART OF BLOCK 40 AND 41 OF NORTHERN ADDITIONS TO THE VILLAGE OF NORTH LA CROSSE, NOW VACATED DESCRIBED AS FOLLOWS: BEGINNING AT THE NORTHEAST CORNER OF SAID FRACTIONAL LOT 1, THENCE SOUTH 89 DEGREES 34 MINUTES WEST ALONG THE NORTH LINE THEREOF 243.15 FEET TO THE NORTHEASTLY RIGHT-OF-WAY LINE OF WEST GEORGE STREET, THENCE SOUTH 84 DEGREES 26 MINUTES EAST ALONG SAID RIGHT-OF-WAY LINE 276.94 FEET TO THE POINT OF CURVATURE OF A 30 FOOT RADIUS CURVE, THENCE CONTINUING ALONG SAID RADIUS OF SAID CURVE, CONCAVE TO THE NORTH, THE CHORD OF WHICH BEARS NORTH 80 DEGREES 26 MINUTES 30 SECONDS EAST ALONG SAID RIGHT-OF-WAY LINE 90.89 FEET TO THE NORTH LINE OF SAID SW 1/4 OF THE SE 1/4, THENCE SOUTH 89 DEGREES 34 MINUTES WEST ALONG THE NORTH LINE THEREOF 14.4 FEET TO THE POINT OF BEGINNING.

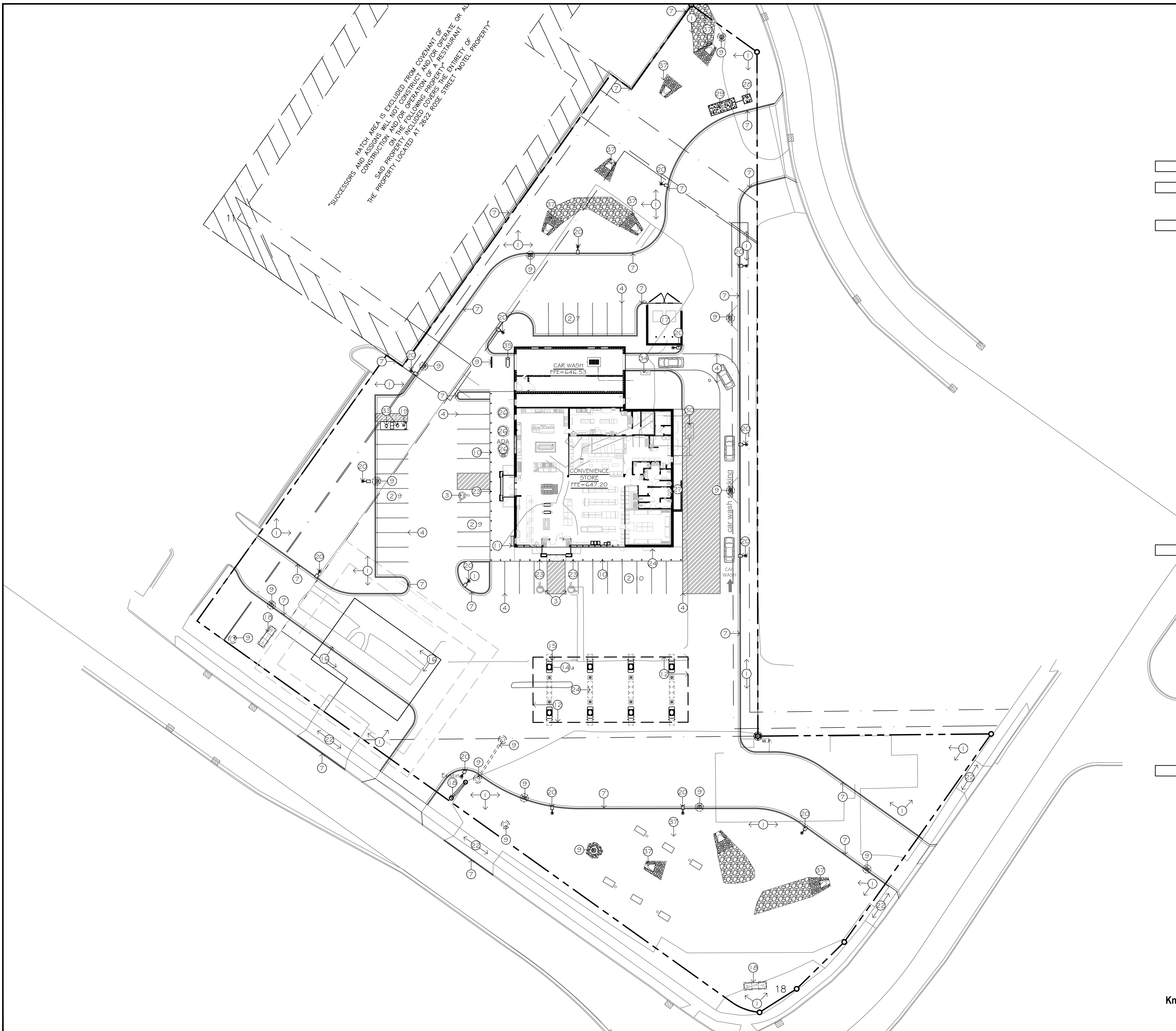


Jacob K. Stephenson  
 3076  
 Blair  
 Wis  
 Land Surveyor

EXCEPT THAT PART TAKEN FOR HIGHWAY DESCRIBED AS PARCEL 6 OF TRANSPORTATION PROJECT PLAT NO. 1071-06-23-4-02 RECORDED ON OCTOBER 6, 2015, AS DOCUMENT NO. 1664482.

EXCEPT THAT PART OF DESCRIBED IN AWARD OF DAMAGES RECORDED ON OCTOBER 13, 2016, AS DOCUMENT NO. 1683520. TOGETHER WITH ACCESS EASEMENTS AS DESCRIBED IN DOCUMENT NO. 1393259 AND CORRECTED BY 404857.





MATCH AREA IS EXCLUDED FROM COVENANT OF SUCCESSORS AND ASSIGN WILL NOT CONSTRUCT AND/OR OPERATE OR ALL CONSTRUCTION AND/OR OPERATION OF THE FOLLOWING PROPERTY RESTRICTIONS: THE PROPERTY LOCATED AT 2822 WIS. STREET HOTEL PROPERTY

**SITE PLAN KEYNOTES**

1. LANDSCAPE AREA. SEE SHEET C700.
2. OFF-STREET PARKING STALLS STRIPING - 4" WIDE STALL LINES, USE HIGH VISIBILITY WHITE PAINT. SPACES PROVIDED:  
(1) 6' SERVICE POINTS  
(2) DIESEL POINTS  
(3) 9'-0" x 20'-0" (MIN.) GENERAL PARKING  
(3) 8'-0" x 20'-0" (MIN) ACCESSIBLE PARKING W/  
(1) 9'-0" x 20'-0" (MIN) LOADING ZONE  
(2) 11'-0" x 20'-0" VACUUM STALLS
3. A.D.A. ACCESSIBLE PARKING SPACE WITH LOADING ZONE. PROVIDE APPROPRIATE STRIPING AND PAVEMENT MARKINGS.
4. 4" WIDE, HIGH VISIBILITY, PAVEMENT STRIPING, LANE MARKINGS AND TEXT. COLOR: HC MARKINGS- BLUE, ALL OTHERS- YELLOW.
5. 6" DEPTH (MIN.) CONCRETE SLAB-ON-GRADE WITH #3 REBAR, 3" O.C. CONCRETE SEALER: TK-26UV
6. 8" DEPTH (MIN.) CONCRETE SLAB-ON-GRADE WITH #4 REBAR, 3" O.C. CONCRETE SEALER: TK-26UV
7. B6-12 CONCRETE CURB AND GUTTER PER DETAIL 11/C500.
8. 6" INTEGRAL CONCRETE CURB/ WALK. SEE DETAIL 7/C500 FOR NON-FLUSH SECTIONS. CONCRETE SEALER: TK-26UV
9. STORM STRUCTURE. SEE SHEETS C200-400, C501 FOR FURTHER STORM SEWER INFORMATION.
10. 30" HT., 6" DIA. CONCRETE FILLED PIPE BOLLARD PER DETAIL 9/C500.
11. 8 STALL BIKE RACK WITH 4" CONCRETE PAD (BRF 300 TRADITIONAL BIKE RACK-SINGLE SIDE PORTABLE/ SURFACE MOUNT ENDS FUSION COATINGS - A DIVISION OF RTM INC. TO BE PROVIDED BY OWNER)
12. 40'-0" x 120'-0" DISPENSER ISLAND CANOPY. VERIFY SIZE, PLACEMENT, COLUMN AND FOOTING SIZE WITH CANOPY AND STRUCTURAL PLANS. CANOPY GRAPHICS PER OWNER.
13. 24'-0" x 50'-0" COMMERCIAL DIESEL DISPENSER ISLAND CANOPY. VERIFY SIZE, PLACEMENT, COLUMN AND FOOTING SIZE WITH CANOPY AND STRUCTURAL PLANS. CANOPY GRAPHICS PER OWNER.
14. CONCRETE ISLANDS W/ 6" EXPOSURE WITH FUEL DISPENSERS. DISPENSER PER OWNER.  
A. 3'-6" x 7'-0"  
B. 3'-6" x 8'-0"
15. 36" HT., 6" DIA. CONCRETE FILLED PIPE BOLLARD PER DETAIL 8/C500.
16. UNDERGROUND FUEL STORAGE TANKS PER OWNER. PROVIDE PIPING AND VENTING PER OWNER'S SPECIFICATIONS.
17. EXTERNAL TRASH ENCLOSURE TO MATCH BUILDING. SEE ARCHITECTURAL DETAILS.
18. KWIK TRIP TRADEMARK SIGN (VERIFY LOCATION WITH SIGN PERMIT)
19. FREE AIR COMPRESSOR. PROVIDE SIGNAGE PER OWNER.
20. SITE AREA LIGHT WITH CONCRETE BASE PER DETAIL 12/C500
21. PVC IRRIGATION SLEEVE UNDER PAVEMENT. VERIFY W/ IRRIGATION PLAN FOR EXACT SIZE AND LOCATION BEFORE INSTALLATION.
22. 4" DEPTH CONCRETE WALK PER DETAIL 3/C500
23. HC PVC BOLLARD SLEEVE PER OWNER. VAN ACCESS SIGNAGE AT 48" HT. STALL PARKING AT 60" HT.
24. OUTDOOR MERCHANDISING AREA
25. 48" HT., 6" DIA. CONCRETE FILLED PIPE BOLLARD PER DETAIL 6/C500
26. PICNIC TABLE PER OWNER. PROVIDE 1 HC. ACCESS TABLE SPACE. PROVIDE TRASH CONTAINER PER OWNER.
27. EXTERIOR DELIVERY TOTE STORAGE WITH SCREEN WALL
28. ELECTRICAL TRANSFORMER
29. ELECTRICAL DISCONNECT
30. GREASE INTERCEPTOR
31. ELECTRIC CAR CHARGER
32. CONCRETE CURB ISLAND
33. VACUUM PER MANUFACTURE'S SPECIFICATIONS. SEE DETAIL 2/C500
34. CAR WASH KEY PAD/ CONTROLLER. PROVIDE TRASH CONTAINER
35. 6" CONCRETE PAD WITH SNOW MELT PER MECHANICAL PLANS
36. APPROACH PER DETAIL 10/C500
37. STORM OUTFALL WITH RIP RAP, SEE DETAIL 5/C501
38. ROAD RECONSTRUCTION, SEE SHEETS C900-90+
39. MOUNTABLE D-4 CURB SEE DETAIL 11/C500
40. REJECT GUTTER- TIP GUTTER AWAY FROM FACE OF CURB FOR SHEET FLOW
41. PAINT-TAPERING EDGE FOR HIGH VISIBILITY

x 5F

x 5F

x 5F

x 5F

x 5F



Know what's below.  
Call before you dig.

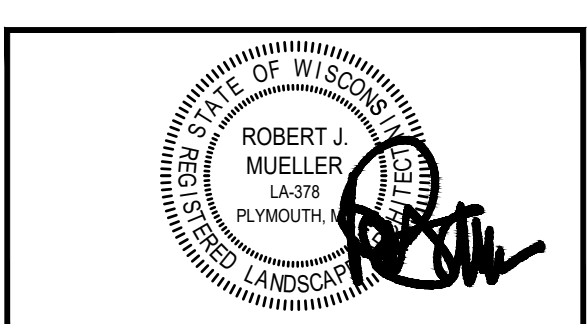


PLOTTING NOTE: PLANS PLOTTED TO 11x17 SHEET SIZE ARE 1/2" SCALE. 1" = 60'



**KWIK TRIP, Inc.**  
P.O. BOX 2107  
1626 OAK STREET  
LACROSSE, WI 54602-2107  
PH. (608) 781-8988  
FAX (608) 781-8960

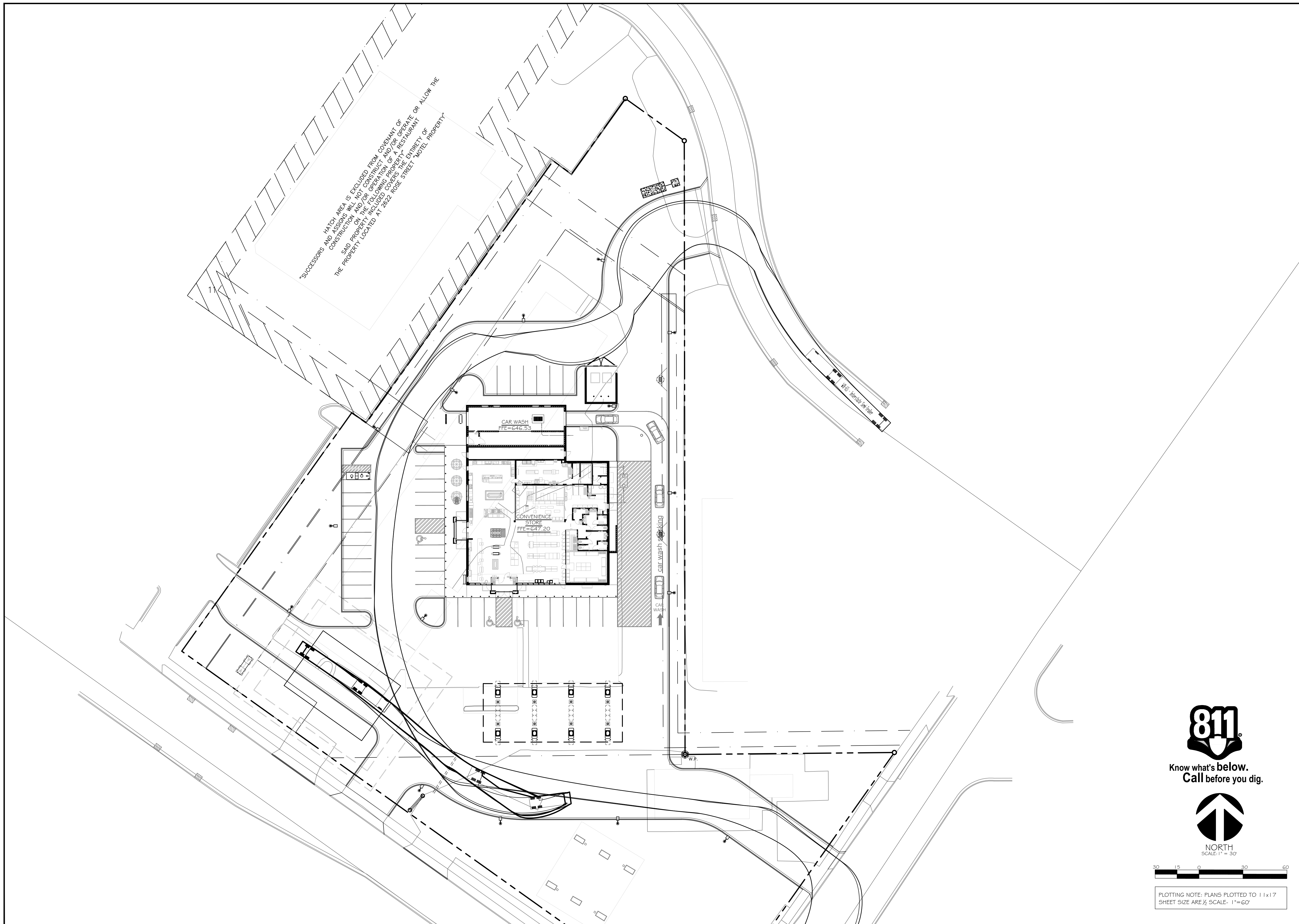
**INSITES**  
SITE PLANNING LANDSCAPE ARCHITECTURE  
3131 Fernbrook Lane North, STE 260  
Plymouth Minnesota 55447  
763.383.8400  
Fax 763.383.8400



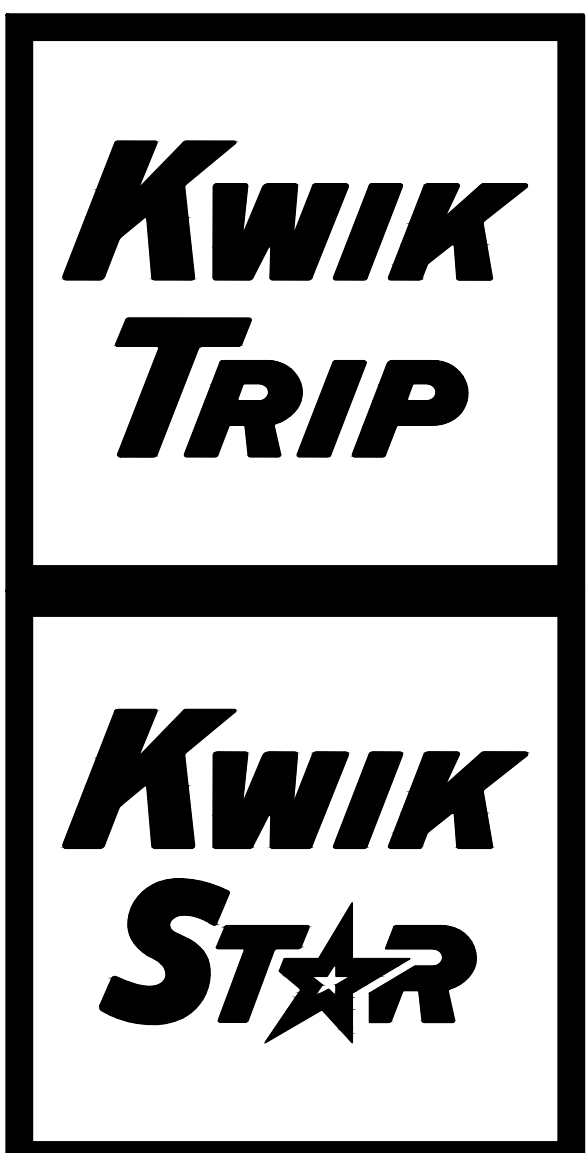
<b>SITE KEYNOTE PLAN</b>	<b>CONVENIENCE STORE 762</b>		<b>LA CROSSE, WISCONSIN</b>
NO.	DATE	DESCRIPTION	
-	04JAN24	SUBMITTAL	
-	17JAN24	CITY SUBMITTAL	
DRAWN BY _____			
SCALE _____		GRAPHIC _____	
PROJ. NO. 23-762			
DATE 2023-12-22			
SHEET <b>C100</b>			

INSITES 23-0228 PM N.B.



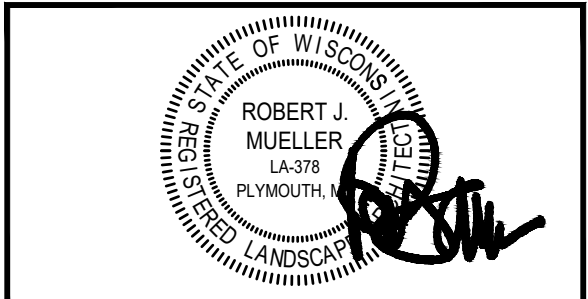


SUCCESSORS AND HEIRS ARE EXCLUDED FROM COVENANT OF CONSTRUCTION AND/OR CONSTRUCTION AND/OR OPERATE OR ALLOW THE SAID PROPERTY, INCLUDING COVENANTS OF A RESTAURANT OR THE PROPERTY LOCATED AT 2822 ROSE STREET, HOTEL PROPERTY.



**KWIK TRIP, Inc.**  
 P.O. BOX 2107  
 1626 OAK STREET  
 LACROSSE, WI 54602-2107  
 PH. (608) 781-8988  
 FAX (608) 781-8960

**INSITES**  
 SITE PLANNING LANDSCAPE ARCHITECTURE  
 3131 Fernbrook Lane North, STE 260  
 Plymouth Minnesota 55447  
 763.383.8400  
 fax 763.383.8400



<b>SITE CIRCULATION PLAN</b>	
<b>CONVENIENCE STORE 762</b>	
<b>LACROSSE, WISCONSIN</b>	
NO.	DESCRIPTION
-	04JAN24 SUBMITTAL
-	17JAN24 CITY SUBMITTAL
DRAWN BY _____	
SCALE	GRAPHIC
PROJ. NO.	23-762
DATE	2023-12-22
SHEET	<b>C180</b>

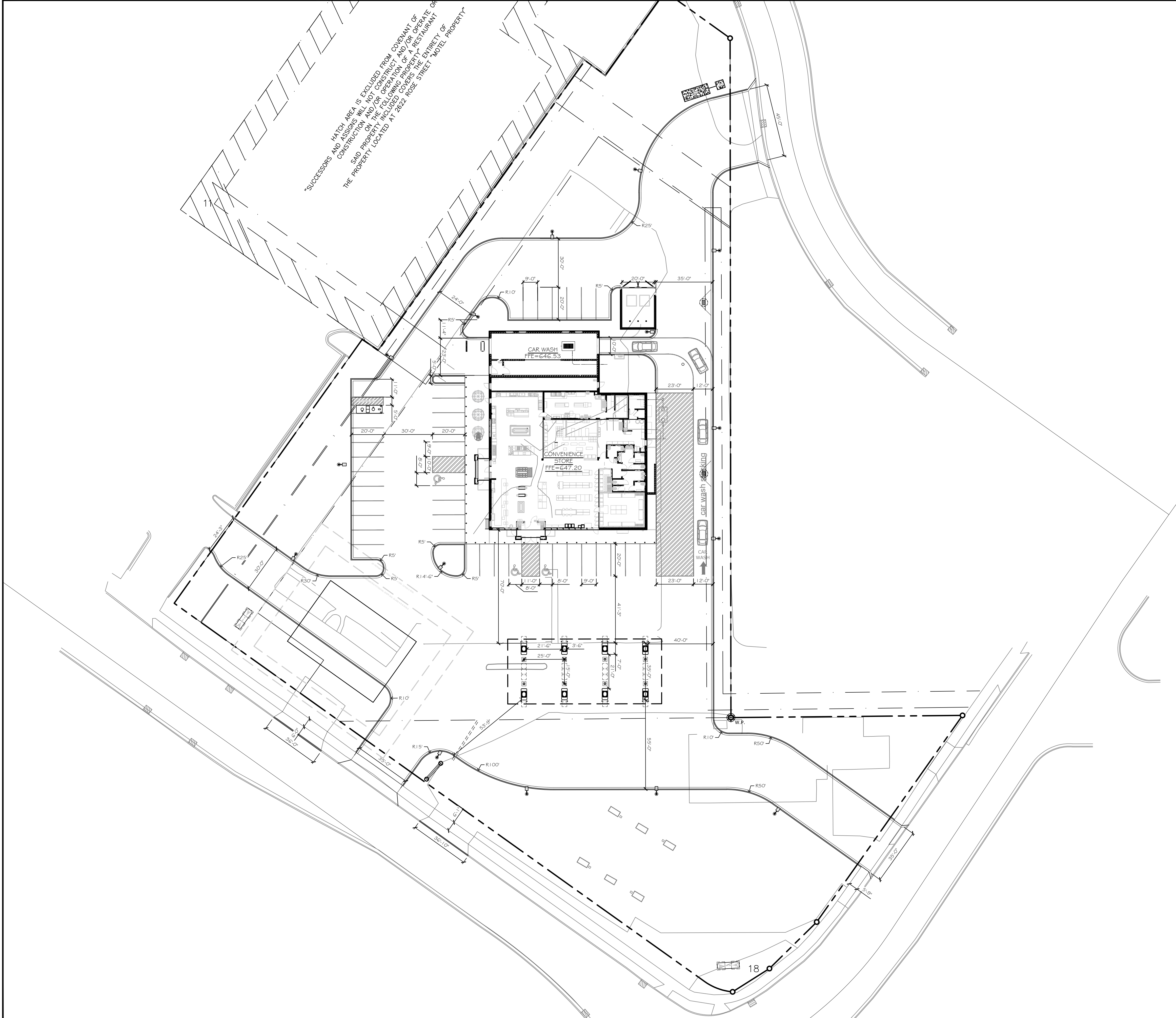
**811**  
 Know what's below.  
 Call before you dig.

NORTH  
 SCALE: 1" = 30'

PLOTING NOTE: PLANS PLOTTED TO 11x17 SHEET SIZE ARE 1/2 SCALE. 1" = 60'

INSITES 23-0228 PM N.E.





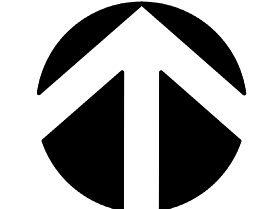
CONSTRUCTION NOTE:  
 CONSTRUCTION FENCING TO BE INSTALLED AROUND ENTIRE CONSTRUCTION SITE. COORDINATE WITH OWNER FOR FENCING AND GATE LOCATIONS AND APPROPRIATE SIGNAGE INSTALLATION.

LAYOUT NOTES:

1. PLAN PREPARED FROM AN ALTA/ACSM LAND TITLE SURVEY BY:  
 PARAGON ASSOCIATES  
 632 COPELAND AVE,  
 LA CROSSE, WI 54603  
 608-781-3110
  2. CURBS ARE DIMENSIONED TO FACE OF CURB.
  3. CONVENIENCE STORE AND ISLAND COMPLEXES ARE LOCATED FROM THE NORTHWEST PROPERTY CORNER AND ALIGNED PARALLEL PERPENDICULAR TO THE WEST PROPERTY LINE UNLESS OTHERWISE INDICATED ON THIS PLAN.
  4. UNLESS SHOWN OTHERWISE ON THIS DRAWING, CONTRACTOR SHALL PROVIDE CONTROL JOINTS, CONSTRUCTION JOINTS, AND EXPANSION JOINTS IN SLABS ON GRADE, SIDEWALKS AND DRIVES.  
 CONTROL JOINT MAXIMUM DISTANCE: WALKS- 8' O.C., ALL OTHERS- 10' O.C. SAW CUT CONTROL JOINTS MINIMUM ONE-QUARTER CONCRETE THICKNESS.  
 EXPANSION JOINT MAXIMUM DISTANCE: WALKS- 24' O.C., ALL OTHERS- 40' O.C. DOWEL ALL EXPANSION JOINTS- MAXIMUM 24" O.C.
  5. CONCRETE IN ISLAND COMPLEX SHALL BE SMOOTH BROOM FINISHED.
  6. EXTERIOR CONCRETE SURFACES TO BE SEALED. CONCRETE SEALER:  
 APR 15 - OCT 31 USE: TK-26UV  
 NOV 1 - DEC 31 USE: TK-290
  7. EXPANSION JOINTS SHALL BE DECK-O-FOAMED AND CAULKED WITH SLI
- |                  |            |
|------------------|------------|
| ZONING DISTRICT: | C1-C2      |
| TOTAL SITE AREA: | 129,840 SF |
| EX. IMPERVIOUS:  | 117,550 SF |
| EX. PERVIOUS:    | 80,497 SF  |
- |                      |                                       |
|----------------------|---------------------------------------|
| PARKING REQUIREMENTS |                                       |
| PARKING REQUIRED     | 750 GSF = 28                          |
| PARKING PROVIDED     | 38 STALLS + 2 VACUUM<br>16 SRV. FNITS |
- |                   |       |
|-------------------|-------|
| BUILDING HEIGHTS  |       |
| CONVENIENCE STORE | 24.5' |
| CANOPY            | 20.0' |
- |                   |    |
|-------------------|----|
| BUILDING SETBACKS |    |
| FRONT             | 0' |
| REAR              | 9' |
| SIDE              | 0' |
- |                      |           |
|----------------------|-----------|
| PROPOSED GREEN AREA: | 47,976 SF |
| PROPOSED HARD COVER: | 81,864 SF |
| PAVED AREA:          | 555 SF    |
| BUILDING AREA:       | 555 SF    |



Know what's below.  
 Call before you dig.



NORTH  
 SCALE: 1" = 30'

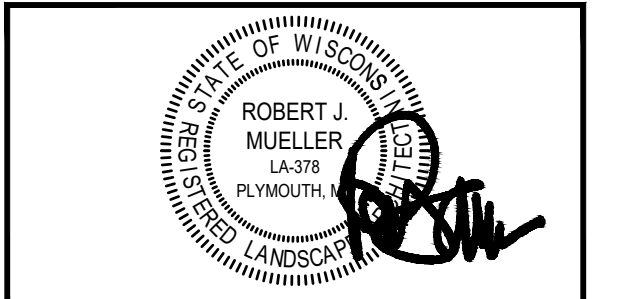


PLOTTING NOTE: PLANS PLOTTED TO 11x17  
 SHEET SIZE ARE 1/2 SCALE. 1" = 60'



**KWIK TRIP, Inc.**  
 P.O. BOX 2107  
 1626 OAK STREET  
 LACROSSE, WI 54602-2107  
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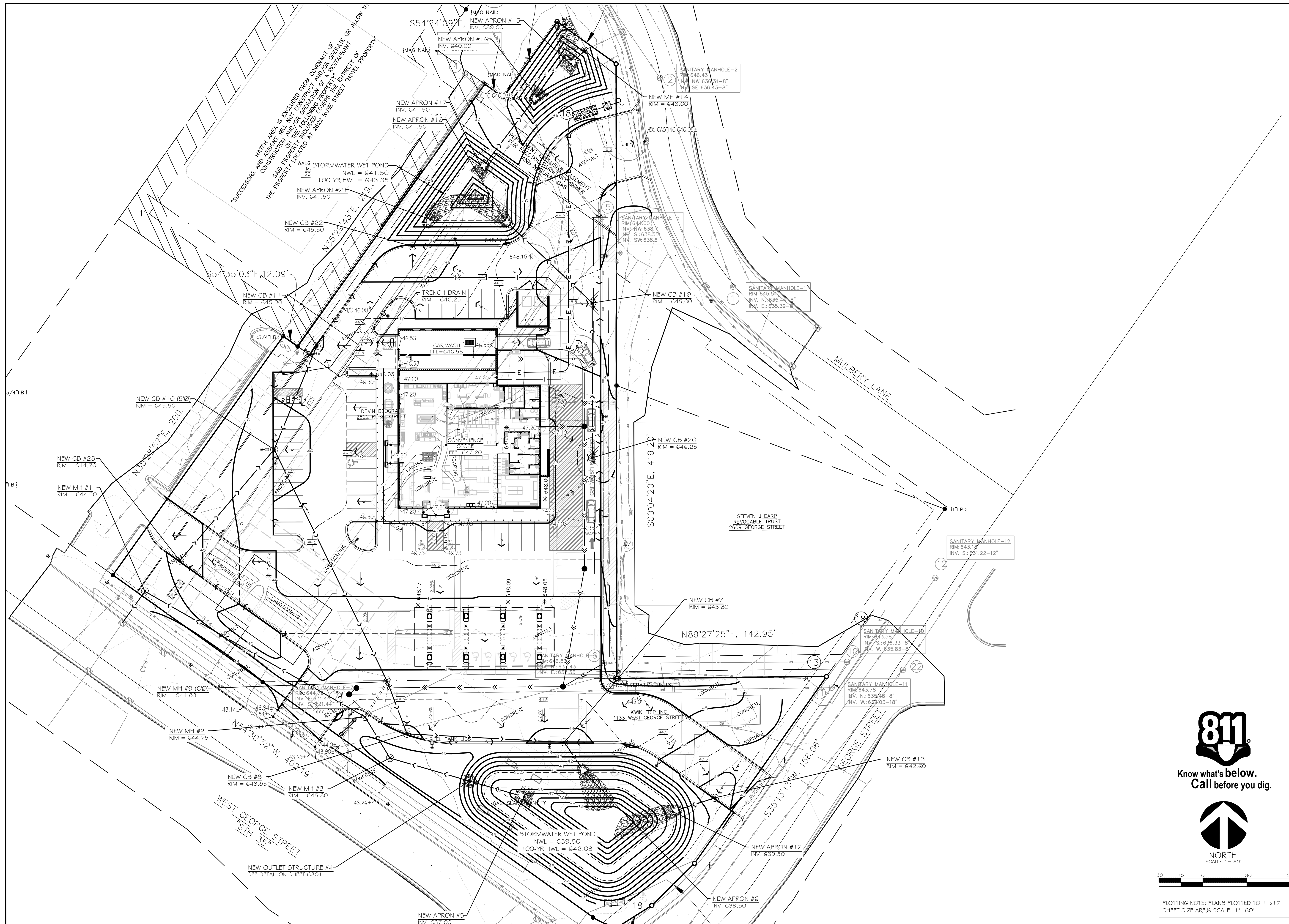


**SITE DIMENSION PLAN**  
**CONVENIENCE STORE 762**  
**LA CROSSE, WISCONSIN**

NO.	DATE	DESCRIPTION
-	04JAN24	SUBMITTAL
-	17JAN24	CITY SUBMITTAL

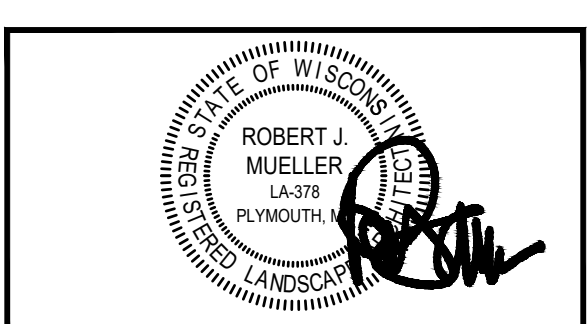
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SCALE	23-762
PROJ. NO.	23-762
DATE	2023-12-22
SHEET	C181





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**GRADE PLAN**  
**CONVENIENCE STORE 762**  
**LACROSSE, WISCONSIN**

Know what's below.  
 Call before you dig.

NORTH  
 SCALE: 1" = 30'

0 15 30 45 60

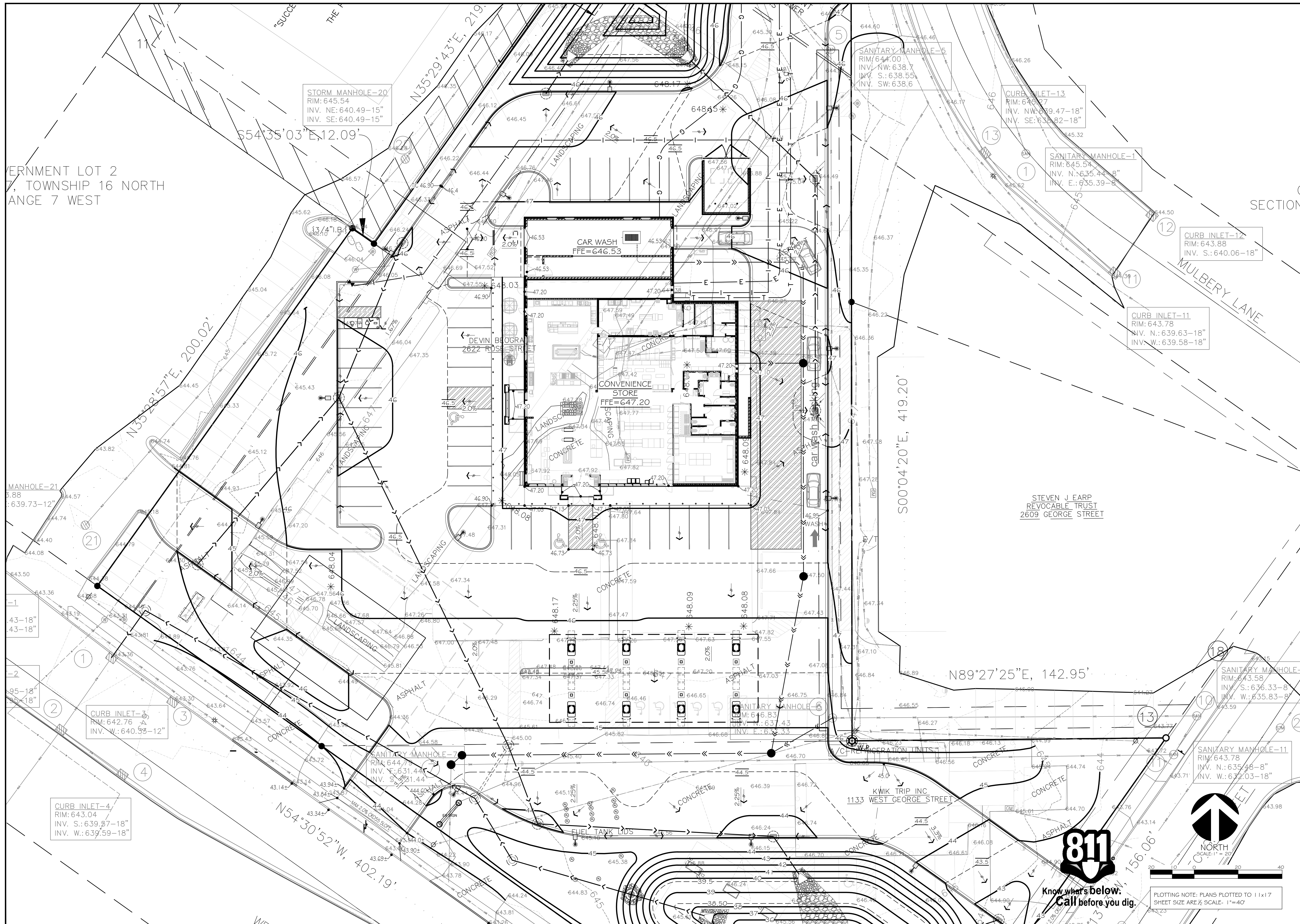
PLOTTING NOTE: PLANS PLOTTED TO 11x17  
 SHEET SIZE ARE 1/2" SCALE - 1"=60'

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-	17JAN24	CITY SUBMITTAL
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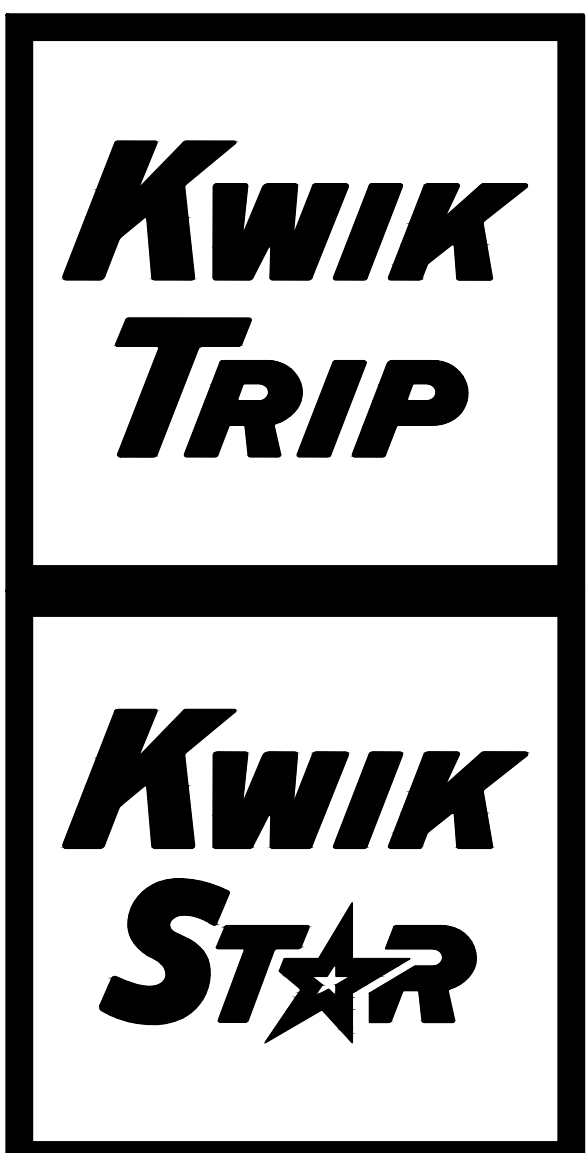
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 PROJ. NO.: 23-762  
 DATE: 2023-12-22  
 SHEET: **C200**

INSITES 23-0228 PM N.B.



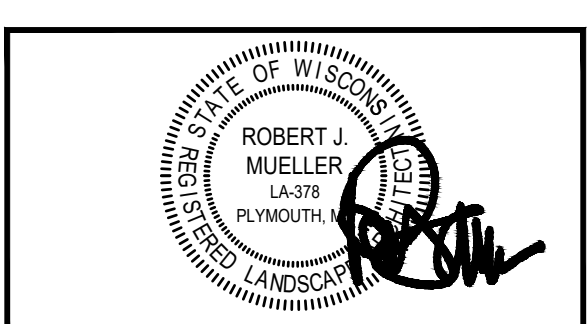


GOVERNMENT LOT 2  
 7, TOWNSHIP 16 NORTH  
 RANGE 7 WEST

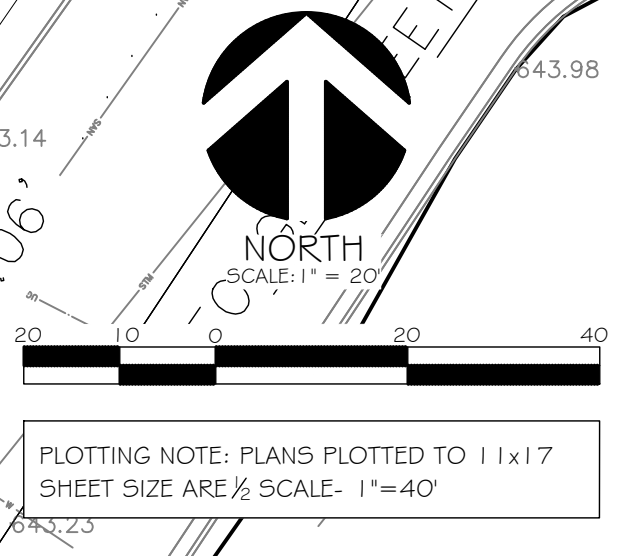


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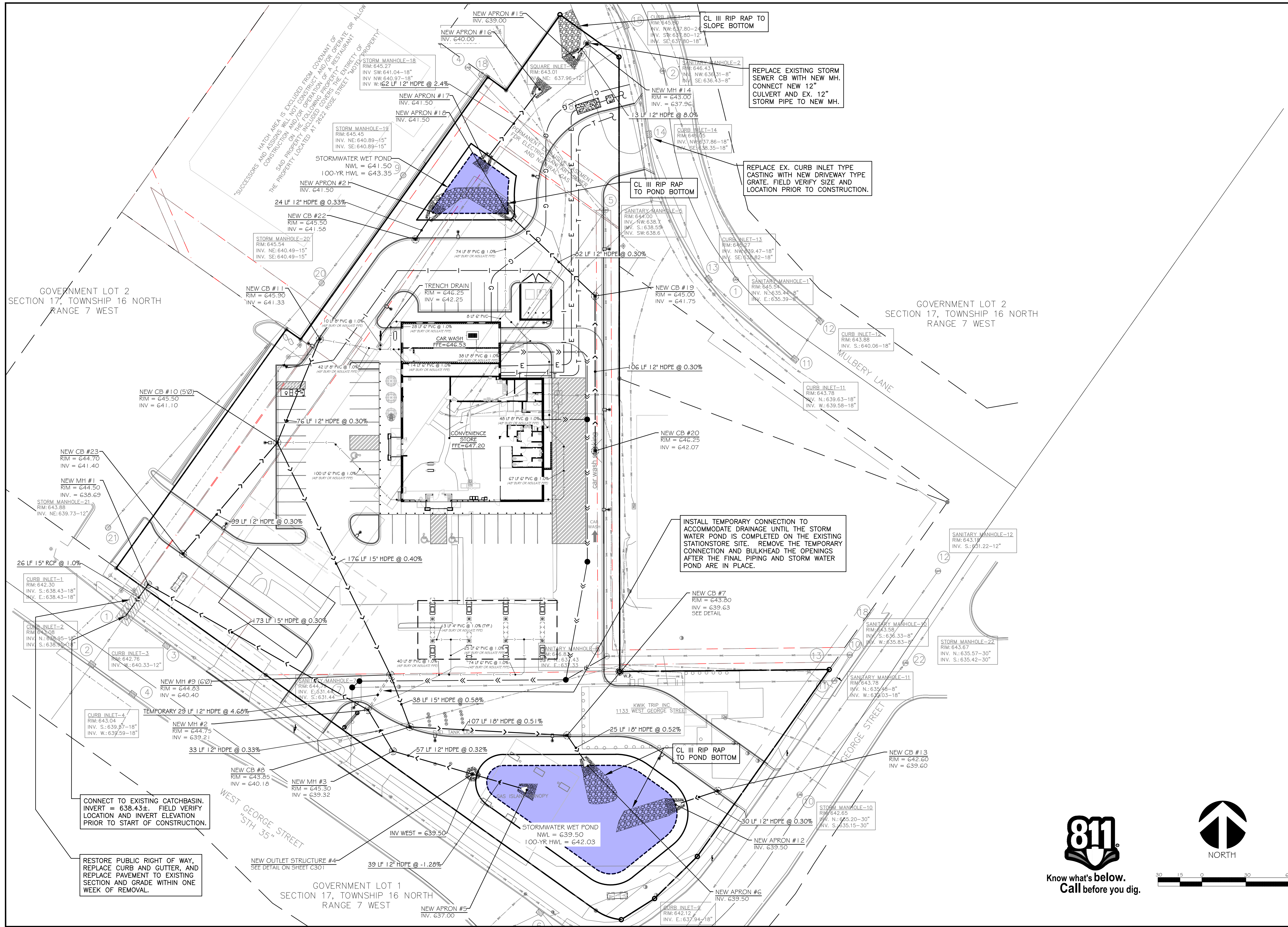
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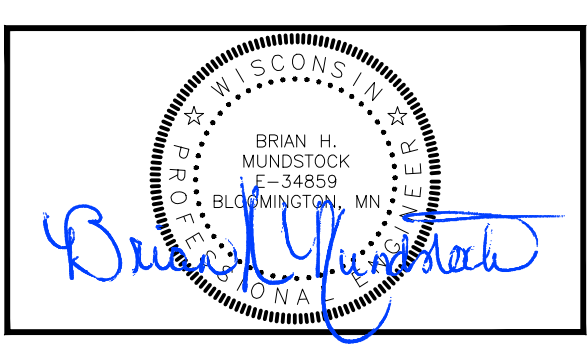
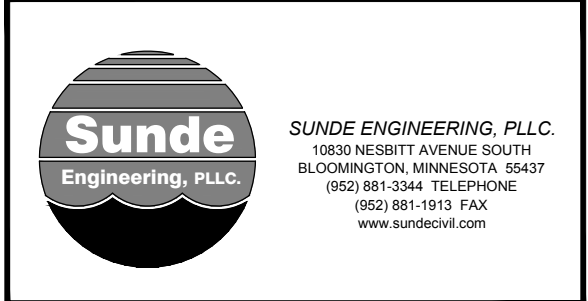
<b>GRADE PLAN ENLARGED</b>  <b>CONVENIENCE STORE 762</b>	<b>LA CROSSE, WISCONSIN</b>															
	<table border="1"> <thead> <tr> <th>NO.</th> <th>DATE</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td>-</td> <td>04JAN24</td> <td>SUBMITTAL</td> </tr> <tr> <td>-</td> <td>17JAN24</td> <td>CITY SUBMITTAL</td> </tr> <tr> <td>-</td> <td></td> <td></td> </tr> <tr> <td>-</td> <td></td> <td></td> </tr> </tbody> </table>	NO.	DATE	DESCRIPTION	-	04JAN24	SUBMITTAL	-	17JAN24	CITY SUBMITTAL	-			-		
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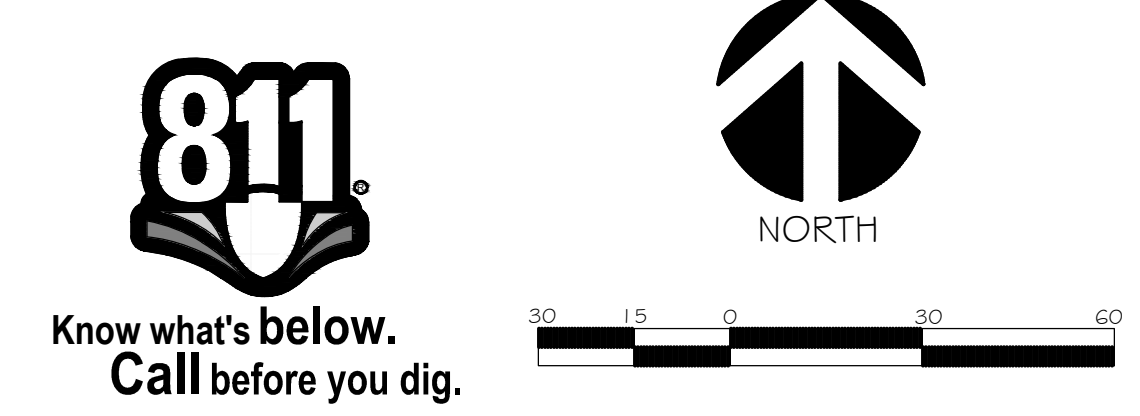
**KWIK TRIP, Inc.**  
 P.O. BOX 2107  
 1626 OAK STREET  
 LACROSSE, WI 54602-2107  
 PH. (608) 781-8988  
 FAX (608) 781-8960



**STORM SEWER PLAN**  
**CONVENIENCE STORE 762**  
 LA CROSSE, WISCONSIN

NO.	DATE	DESCRIPTION
-	04JAN24	SUBMITTAL
-	17JAN24	CITY SUBMITTAL
-		
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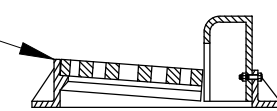
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 PROJ. NO.: 23-762  
 DATE: 2023-12-22  
 SHEET: **C300**





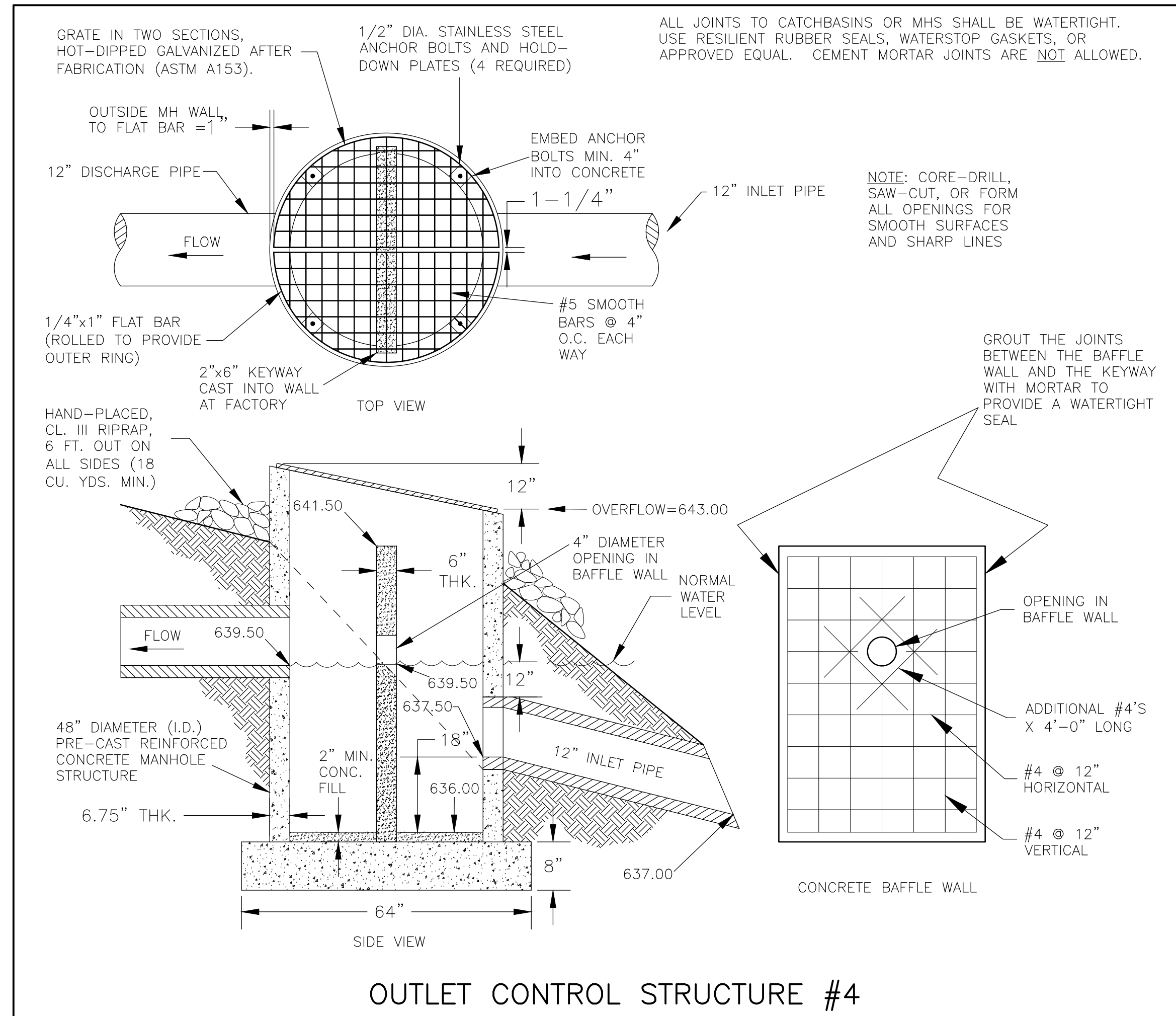
**STORM DRAINAGE :**

- Unless otherwise indicated, use reinforced, precast concrete maintenance holes and catchbasins conforming to ASTM C478, furnished with water stop rubber gaskets and precast bases. Joints for all precast maintenance hole sections shall have confined, rubber "O"-ring gaskets in accordance with ASTM C443. These joints are normally used in sewers to hold infiltration and exfiltration to a practical minimum and are adequate for hydrostatic heads up to 30'. The inside barrel diameter shall not be less than 48 inches.
- Install catchbasin castings TOP with specified top elevation at the front rim.
- All joints and connections in the storm sewer system shall be gastight or watertight. Joints between concrete structures and piping shall be made with mechanical joints. Use approved resilient rubber seals or waterstop gaskets in order to make watertight connections to manholes, catchbasins, and other structures in conformance with ASTM C923 or as otherwise permitted by the local authority. Cement mortar joints alone are permitted only for repairs or connections to existing lines having such joints, or unless otherwise permitted by the administrative authority.
- The building sewer starts 2 feet outside of the building. See Uniform Plumbing Code (UPC) part 715.1. Material installed within 2 feet of the building must be of materials approved for use inside of or within the building.
- PVC Pipe (Outside of the Building):** Use solid-core, SDR-35, ASTM D3034 Polyvinyl Chloride (PVC) pipe for designated PVC storm sewer services 4 to 15-inches in diameter outside of the building. Use solid-core, SDR-35, ASTM F679 Polyvinyl Chloride (PVC) pipe for designated PVC storm sewer services 18 to 27-inches in diameter outside of the building. Joints for all storm sewer shall have elastomeric gaskets. Use of solvent cement joints is allowed for building services. Solvent cement joints in PVC pipe must include use of a primer which is of contrasting color to the pipe and cement in accordance with Uniform Plumbing Code (UPC), part 605.2.2. Pipe with solvent cement joints shall be joined with PVC cement conforming to ASTM D2564. Lay all PVC pipe on a continuous granular bed. Installation must comply with ASTM D2321.
- Cleanouts:** Install cleanouts on all roof drains in accordance with S.P.S. 382.35 (3)(C)(1). Cleanouts shall be installed at every wye, sweep, and bend. The distance between cleanouts in horizontal piping shall not exceed 100 feet for pipes 4-inch and over in size. Cleanouts shall be of the same nominal size as the pipes they serve. Include frost sleeves and concrete frame and pipe support. Install a meter box frame and solid lid (Neenah R-1914-A, or approved equal) over all cleanouts. Provide cleanouts at the base of the roof leader connections at the gas island pump stations.
- Fittings:** Provide directional fittings for the storm piping serving the gas island pump stations. All changes in direction of flow in drain piping shall be made by the appropriate use of 45 degree wyes, long or short sweep quarter bends, sixth, eighth, or sixteenth bends, or by a combination of these or other equivalent fittings.
- RCP:** Furnish reinforced concrete pipe (RCP) and fittings fabricated in a plant listed on the Wisconsin Department of Transportation Approved Product List (APL) consistent with the diameter indicated. Material for the various classes of pipe shall be in accordance with Wisconsin DOT Standard Specification Section 522.2 conforming to ASHTO M170. Per WisDOT Facilities Development Manual Chapter 13 Section 1, the minimum concrete pipe class required based on depth to subgrade is as follows: Depth to subgrade 0' to 2' = Class IV RCP, Depth to subgrade 2' to 3' = Class III RCP, Depth to subgrade 3' to 6' = Class II RCP.
- SPS 382.36(9)(h) Grates on Horizontal Pipes:** Install safety-trash grates on all horizontal inlets/outlets greater than 6 inches in diameter. The grates shall be placed so that the rods or bars are not more than 3 inches downstream of the inlet/outlet. Rods or bars shall be spaced so that the openings do not permit the passage of a 6-inch sphere.
- Testing:** Test all portions of storm sewer that are within 10 feet of buildings, within 10 feet of buried water lines, within 50 feet of water wells, or that pass through soil or water identified as being contaminated in accordance with UPC part 1107.0. Test all flexible storm sewer lines for deflection after the sewer line has been installed and backfill has been in place for at least 30 days. No pipe shall exceed a deflection of 5%. If the test fails, make necessary repairs and retest.
- Drainage:** Perforated under-drains shall be slotted single wall corrugated HDPE. Install drainage with high permittivity circular knit polymeric filter sock per ASTM D6707-01.
- Use Neenah R-3067-DR/DL casting with curb box, or approved equal, on CB #7, #8, #10, #11, #13, #22, and #23. Casting shall include the "DUMP NO WASTE. DRAINS TO FRESH WATER." environmental notice.
- Use Neenah R-3455-A casting, or approved equal, on CB#19 and CB#20.
- Use Zurn Z886 trench drain model 8606N with black acid resistant epoxy coated ductile grate - Class C for proposed trench drain.
- Use Neenah Foundry Co. R-1642 casting with self-sealing, solid, type B lid, or approved equal, on all storm sewer maintenance holes. Covers shall bear the "Storm Sewer" label.

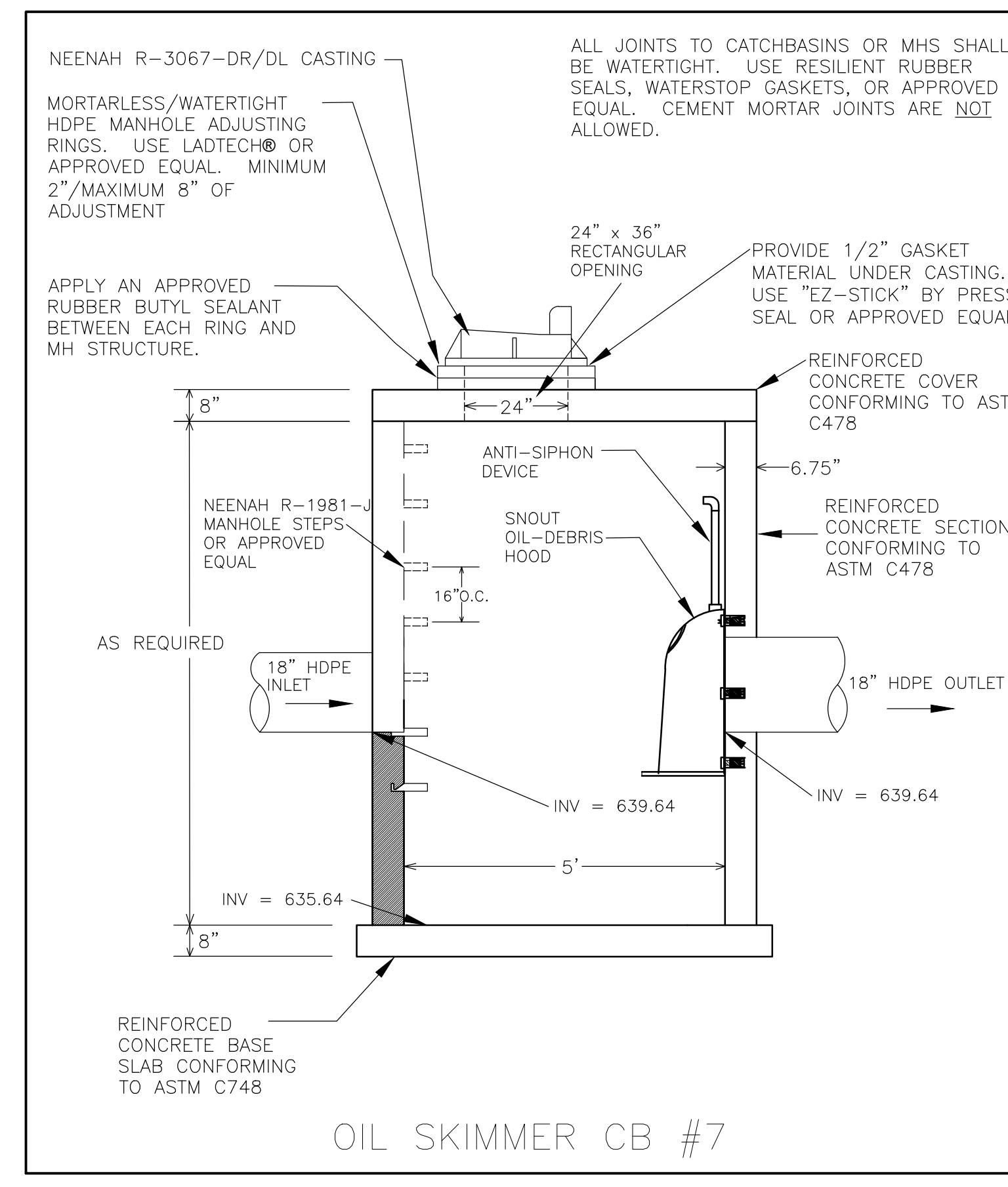


**HDPE REQUIREMENTS :**

- Install dual-wall, smooth interior, corrugated high-density polyethylene (HDPE) pipe at locations indicated on the plan. High-density polyethylene (HDPE) storm sewers must meet ASTM F714.
- Dual-wall, smooth interior, corrugated high-density polyethylene (HDPE) pipe shall conform to the requirements of ASHTO M252 for pipe sizes 4-inch to 10-inch diameter. Dual-wall, smooth interior, corrugated high-density polyethylene (HDPE) pipe shall conform to the requirements of ASTM F2306 (virgin PE material) for pipe sizes 12-inch to 60-inch diameter.
- All fittings must comply with ASTM Standard D3212.
- Water-tight joints must be used at all connections including structures in conformance with ASTM F2510.
- HDPE pipes must be listed and labeled.
- The connection between HDPE and a different pipe material must be made by means of an approved transition coupling for the specific application.
- HDPE pipe connections into all concrete structures must be made with water tight materials utilizing Nyoplast "Manhole Adaptors" along with Press-Seal or Kor-N-Seal "Watertight Connector", Cast-A-Seal "Precast Watertight Connector", or approved equals. Where the alignment precludes the use of the above approved watertight methods, Con Seal 251 WaterStop sealant, or approved equal will only be allowed as approved by the Administrative Authority.
- HDPE pipe installation must be open-trench on a continuous granular bed per ASTM D2321 and manufacturer's installation instructions. All sections of the corrugated HDPE pipe shall be coupled in order to provide water tight joints.
- Perform deflection tests on all HDPE pipe after the sewer lines have been installed and backfill has been in place for at least 30 days. No pipe shall exceed a deflection of 5%. If the test fails, make necessary repairs and perform the test again until acceptable. Supply the mandrel for deflection testing. If the deflection test is to be run using a rigid ball or mandrel, it shall have a diameter equal to 95% of the inside diameter of the pipe. The ball or mandrel shall be clearly stamped with the diameter. Perform the tests without mechanical pulling devices.



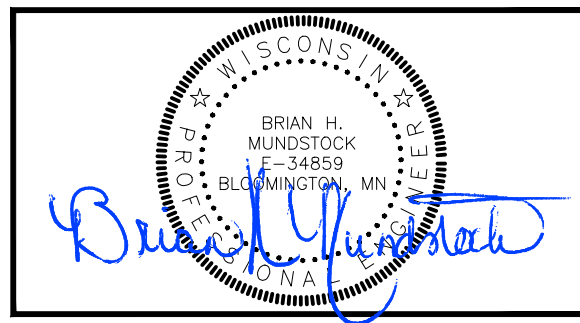
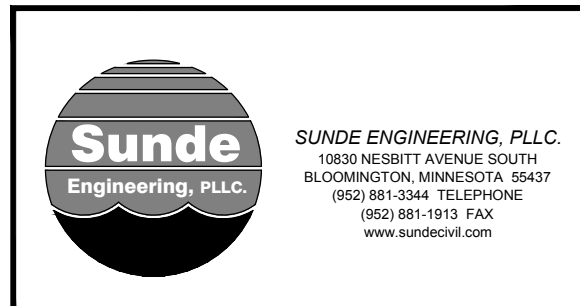
**OUTLET CONTROL STRUCTURE #4**



**OIL SKIMMER CB #7**



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 LACROSSE, WI 54602-2107  
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<b>STORM SEWER NOTES &amp; DETAILS</b>		
<b>CONVENIENCE STORE 762</b>		
<b>LACROSSE, WISCONSIN</b>		
NO.	DATE	DESCRIPTION
-	04JAN24	SUBMITTAL
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-		
-		
DRAWN BY:		MW
SCALE:		GRAPHIC
PROJ. NO.:		23-762
DATE:		2023-12-22
SHEET:		<b>C301</b>







**G E N E R A L :**

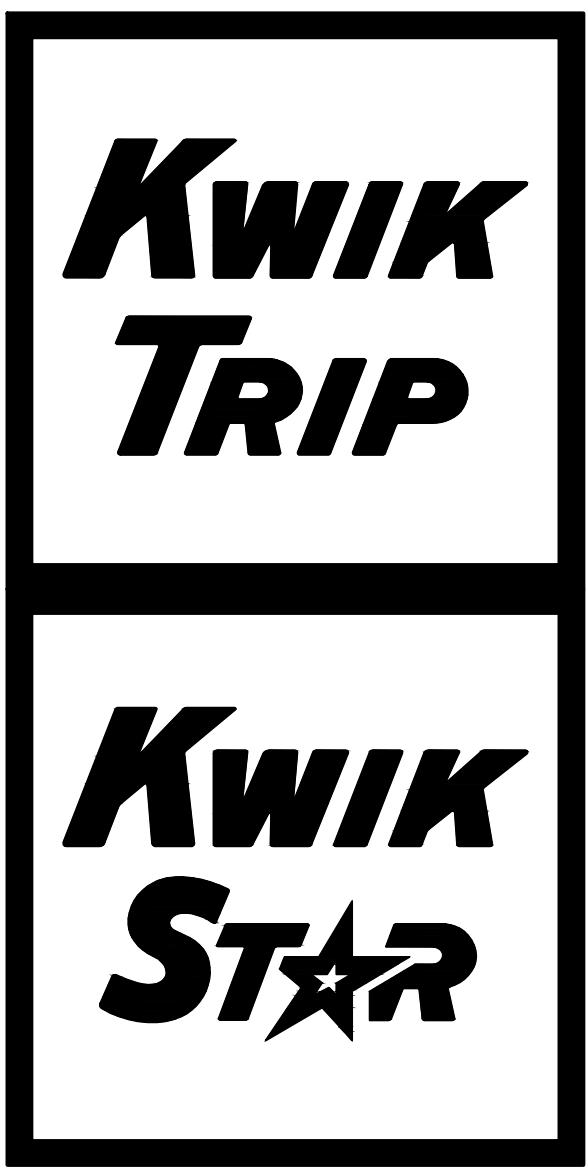
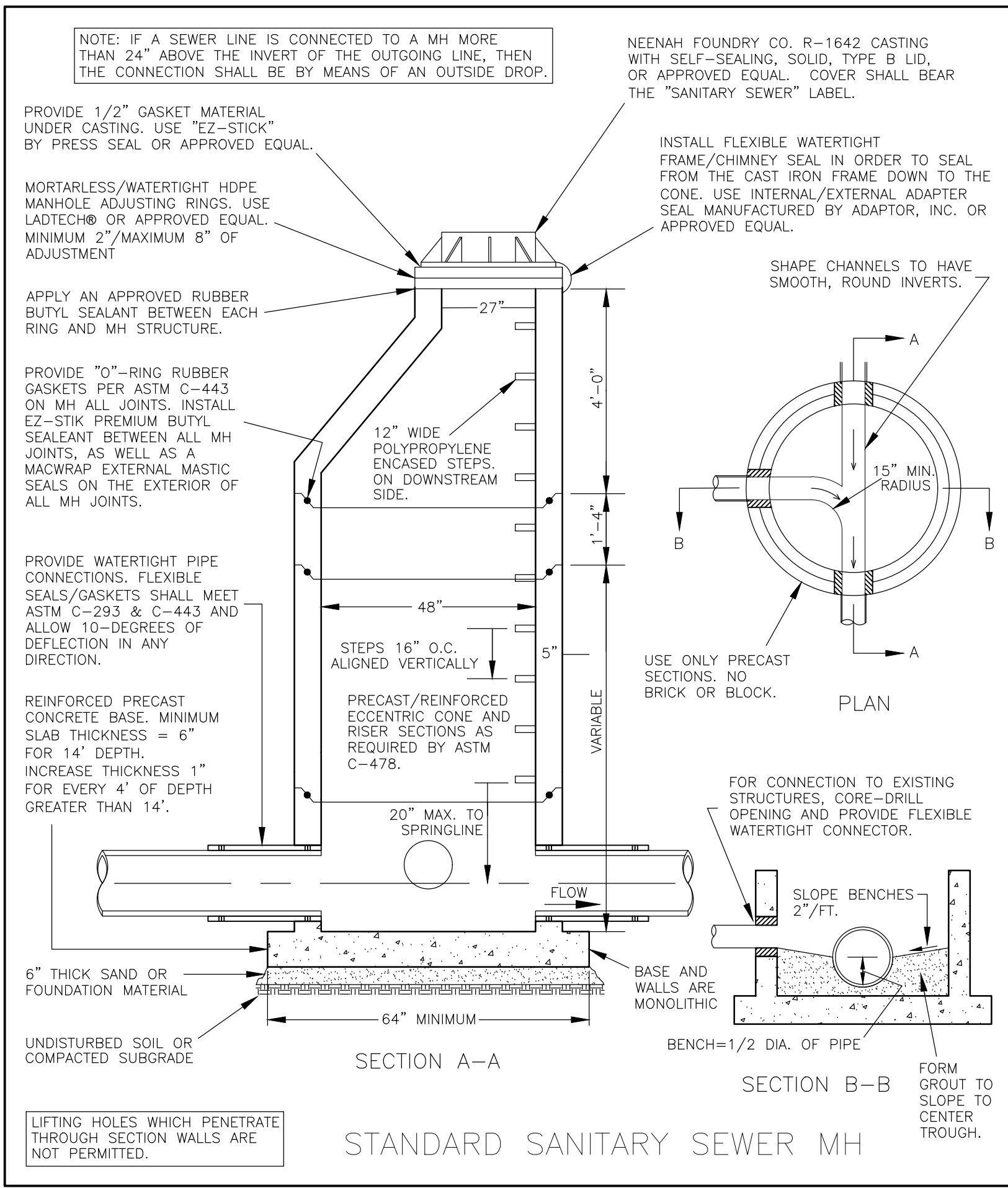
- Existing boundary, location, topographic, and utility information shown on this plan is from an ALTA/NSPS Land Title Survey survey by Paragon Associates dated 9/14/2023. The Engineer is not responsible for inaccuracies related to the survey information.
- Perform all construction work in accordance with State and Local requirements.
- Comply with all applicable local, state, and federal safety regulations. Comply with the work safety practices specified by the Occupational Safety and Health Administration (OSHA). OSHA prohibits entry into "confined spaces," such as manholes and inlets (see 29 CFR Section 1910.146), without undertaking certain specific practices and procedures. Perform excavations in accordance with the requirements of O.S.H.A. 29 CFR, Part 1926, Subpart P, Excavations. Trenching standards require protective systems on trenches deeper than 5 feet. Bench or slope sidewalls in order to provide safe working conditions and stability for the placement of engineered fill. Do not expose workers to the dangers of being struck by material and equipment. Keep soil and other materials at least 2 feet from the edge of any trenches. Trenches must be inspected by a competent individual, be free of standing water and atmospheric hazards, and have a safe means of entering and exiting before allowing a worker to enter. The Contractor is responsible for naming the "Competent Individual" in accordance with CFR 1926.6. Sloping or benching for excavations greater than 20 feet deep must be approved by a registered professional engineer (www.osha.gov).
- Safety is solely the responsibility of the Contractor, who is also solely responsible for the construction means, methods, techniques, sequences or procedures, and for safety precautions and programs in connection with the Work. The Engineer's review shall not constitute approval of safety precautions or of any construction means, methods, techniques, sequences, or procedures.
- The Engineer shall not have control over, charge of, or responsibility for the construction means, methods, techniques, sequences or procedures, and for safety precautions and programs in connection with the Work. The Engineer's review shall not constitute approval of safety precautions or of any construction means, methods, techniques, sequences, or procedures.
- Examine all local conditions at the site, and assume responsibility as to the grades, contours, and the character of the earth, existing conditions, and other items that may be encountered during excavation work above or below the existing grades. Review the drawings, specifications, and geotechnical report covering this work and become familiar with the anticipated site conditions.
- Refer to the architectural plans for building and stoop dimensions, site layout and dimensions, pavement sections and details, striping, and other site features.
- A licensed surveyor shall perform construction staking. The Contractor shall provide and be responsible for the staking. Verify all plan and detail dimensions prior to construction staking. Stake the limits of walkways and curbing prior to valvebox, maintenance hole, and catchbasin installation. Adjust valvebox and maintenance hole locations in order to avoid conflicts with curb and gutter. Adjust catchbasin locations in order to align properly with curb and gutter.
- Provide temporary fences, barricades, coverings, and other protections in order to preserve existing items to remain, and to prevent injury or damage to person or property.
- Provide all traffic control required in order to construct the proposed improvements. Traffic control design and associated government approvals are the responsibility of the Contractor. Comply with local authorities, the latest version of the Manual on Uniform Traffic Control Devices for Streets and Highways (MUTCD), and the Wisconsin Manual on Uniform Traffic Control Devices Supplement to the MUTCD. If the temporary traffic control zone affects the movement of pedestrians, provide adequate temporary pedestrian access and walkways. If the temporary traffic control zone affects an accessible and detectable pedestrian facility, maintain accessibility and detectability along the alternate pedestrian route in accordance with the provisions for pedestrian and worker safety contained in Part 6 of the MUTCD.
- Connect to existing sanitary sewer MH's by corerdrilling. Connect to existing storm sewer MH's by either sawcutting or corerdrilling. Use saws or drills that provide water to the blade. Meet all city standards and specifications for the connection. Reconstruct inverts after installation. Use water stop gaskets in order to provide watertight seals when penetrating a pipe with a pipe. Take measurements before beginning construction to ensure that service connections do not cut into maintenance access structure joints or pipe barrel joints.
- Completely remove existing concrete and masonry structures that are located within the proposed building and future building expansion areas. All other existing sewer and watermain pipes that are to be abandoned shall either be removed, or completely filled with sand or controlled low strength material (CLSM) also known as flowable concrete fill. Bulkhead ends of the pipe segment to be decommissioned with concrete. All other existing sanitary sewer and storm sewer structures that are to be abandoned in place shall be abandoned as follows: (1) remove castings, rings, and top sections, (2) bulkhead any pipe openings, (3) break two 4-inch diameter holes in the barrel at the bottom of the structures for drainage and cover the holes with geotextile fiber fabric, and (4) fill the structures with sand or CLSM.
- Testing and Inspections: Coordinate testing and inspection with the State Health Department and the City Public Works Department. No drainage or plumbing work may be covered prior to completing the required tests and inspections.
- Coordinate building utility connection locations at 2 ft. out from the proposed building with the interior Plumbing Contractor prior to construction. Verify water and sewer service locations, sizes, and elevations with the Mechanical Engineer prior to construction. Coordinate construction and connections with the Mechanical Contractor.
- The subsurface utility information shown on this plan is utility Quality Level D. This quality level was determined according to the guidelines of CI/ASCE 38-02, entitled "Standard Guideline for the Collection and Depiction of Existing Subsurface Utility Data" by the FHA.
- The locations of existing utilities shown on this plan are from record information. The Engineer does not guarantee that all existing utilities are shown or, if shown, exist in the locations indicated on the plan. It is the Contractor's responsibility to ascertain the final vertical and horizontal location of all existing utilities (including water and sewer lines and appurtenances). Notify the Engineer of any discrepancies.
- The Contractor is solely responsible for all utility locates. Contact utility companies for locations of all public and private utilities within the work area prior to beginning construction. Contact Digger's Hotline at (414) 259-1181 in the Milwaukee Metro Area, or 1-800-242-8511 elsewhere in Wisconsin for exact locations of existing utilities at least 72 hours (not including weekends and holidays) before beginning any construction. Obtain ticket number and meet with representatives of the various utilities at the site. Provide the Owner with the ticket number information. Digger's Hotline is a free service that locates municipal and utility company lines, but does not locate private utility lines. Use an independent locator service or other means in order to obtain locations of private utility lines including, but not limited to, underground electric cables, telephone, TV, and lawn sprinkler lines.
- Pothole to verify the positions of existing underground facilities at a sufficient number of locations in order to assure that no conflict with the proposed work exists and that sufficient clearance is available.
- Where existing gas, electric, cable, or telephone utilities conflict with the Work, coordinate the abandonment, relocation, offset, or support of the existing utilities with the appropriate local utility companies. Coordinate new gas meter and gas line installation, electric meter and electric service installation, cable service, and telephone service installation with the local utility companies.
- When working near existing telephone or electric poles, brace the poles for support. When working around existing underground utilities that become exposed, provide sufficient support in order to prevent excessive stress on the existing piping. The location and preservation of existing underground utilities is solely the responsibility of the Contractor.
- Temporary support systems are the responsibility of the Contractor, who is also solely responsible for the construction means, methods, techniques, sequences or procedures, and for safety precautions and programs in connection with the temporary support systems. Temporary support systems include, but are not limited to, shoring, sheeting, bracing, anchorages, excavation support walls, directional boring, auger jacking, soil stabilization, and other methods of protecting existing improvements.
- Arrange for and secure suitable disposal areas off-site. Dispose of all excess soil, waste material, debris, and all materials not designated for salvage. Waste material and debris includes trees, stumps, pipe, concrete, asphaltic concrete, cans, or other waste material from the construction operations. Obtain the rights to any waste area for disposal of unsuitable or surplus material either shown or not shown on the plans. All work in disposing of such material shall be considered incidental to the work. All disposal must conform to applicable solid waste disposal permit regulations. Obtain all necessary permits at no cost to the Owner.
- Store and protect existing site features that need to be removed and replaced in connection with the Work. Replace damaged or stolen site features at no additional cost to the Owner.
- Straight line saw-cut existing bituminous or concrete surfacing at the perimeter of pavement removal areas. Use saws that provide water to the blade. Do not allow the slurry produced by this process to be tracked outside of the immediate work area or discharged into the sewer system. Tack and match all connections to existing bituminous pavement.
- Relocate overhead power, telephone, and cable lines as required. Seal and report any existing unused on-site wells and septic systems.
- All materials required for this work shall be new material conforming to the requirements for class, kind, grade, size, quality, and other details specified herein or as shown on the Plans. Do not use recycled or salvaged aggregate, asphaltic pavement, crushed concrete, or scrap shingles. Unless otherwise indicated, the Contractor shall furnish all required materials and labor in order to perform the construction in accordance with the construction documents, specifications, and regulatory agencies.
- Reconstruct driveways and patch street to match existing pavement section and grade. Sod right-of-way. Restore the public right-of-way at temporary construction entrance locations. Replace any concrete curb and gutter, bituminous pavement, sidewalk, or vegetative cover damaged by the construction activity. Restore damaged turf with sod within the public right-of-way. The work area shown is general and may need to be adjusted in the field.
- Cut turf edges in order to allow for a uniform straight edge at locations where new sod meets existing turf. No jagged or uneven edges are allowed. Remove tops as required at joints between existing and new turf in order to allow the surface of the new sod to be flush with the existing.
- Document existing conditions (photographs, video, field survey, etc.) in order to enable restoration to match existing conditions and in order to ensure that restored areas have positive drainage similar to existing conditions.
- Provide positive drainage away from buildings at all times. Provide and maintain temporary drainage throughout construction until the permanent drainage system and structures are in place and operational. Install temporary ditches, piping, pumps, or other means as necessary in order to insure proper drainage at all times. Provide low points at building pads or roadways with positive outfalls. Do not block drainage from or direct excess drainage to adjacent property.

- Protect all structures and landscaping not labeled for demolition from damage during construction. Provide protective coverings and enclosures as necessary to prevent damage to existing work that is to remain. Existing work to remain may include items such as trees, shrubs, lawns, sidewalks, drives, curbs, utilities, buildings and/or other structures on or adjacent to the site.
- Provide temporary fences and barricades as required for the safe and proper execution of the work and the protection of persons and property. Provide building surveys and seismic monitoring in locations where demolition, excavation, underpinning, pile driving, compacting, or similar work is to be performed adjacent to or in the vicinity of existing structures. Return any on-site or off-site areas disturbed directly or indirectly due to construction to a condition equal to or better than the existing condition.
- Protect sub grades from damage by surface water runoff.
- Full design strength is not available in bituminous pavement areas until the final lift of asphalt is compacted into place. Protect pavement areas from overloading by delivery trucks, construction equipment, and other vehicles.
- When sawing or drilling concrete or masonry, use saws that provide water to the blade. Do not allow the slurry produced by this process to be tracked outside of the immediate work area or discharged into the sewer system.
- Adjust all public and private structures including curb stops, valve boxes, maintenance hole castings, catchbasin castings, cleanouts, and similar items to finished grade. Comply with the requirements of each structure's owner. Structures being reset in paved areas must meet the owner's requirements for traffic loading.
- Grading for all sidewalks and accessible routes, including driveway crossings, shall conform to current State and Federal Americans with Disabilities Act (ADA) requirements. In accordance with ADA Section 403.3, slopes shall not exceed exceed 2% cross slope or 5% in the direction of travel. Sidewalk access to external building doors shall be ADA compliant. Accessible parking stalls shall not exceed 2% slope in any direction.
- Curb ramps on accessible routes shall comply with sections 405 and 406 of the Americans with Disabilities Act Accessibility Guidelines (ADAAG).
- Accessible parking spaces shall include the International Symbol of Accessibility complying with ADA Section 703.7.2.1 pointed in the center of the parking space, 4-ft. high. Hatch handicapped access aisles with white 4-inch wide pointed stripes 18-inches on center and at 45 degree angles to the stalls.
- Install all pipe with the ASTM identification numbers on the top for inspection. Commence pipe laying at the lowest point in the proposed sewer line. Field verify that there is positive drainage at the outfall location. Lay the pipe with the bell end or receiving groove end of the pipe pointing up grade. When connecting to an existing pipe, uncover the existing pipe in order to allow any adjustments in the proposed line and grade before laying any pipe. Do not lay pipes in water or when the trench conditions are unsuitable for such work.
- Obtain and pay for all permits, tests, inspections, etc. required by agencies that have jurisdiction over the project including the NPDES permit from the State. The Contractor is responsible for all bonds, letters of credit, or cash sureties related to the work. Execute and inspect work in accordance with all local and state codes, rules, ordinances, or regulations pertaining to the particular type of work involved.
- Measure pipe lengths from center-of-structure to center-of-structure, or to the end of aprons.
- Obtain permits from the City for work in the public right-of-way.
- Refer to the geotechnical report by the Soils Engineer for dewatering requirements.
- Test boring data shown on the plans were accumulated for designing and estimating purposes. Their appearance on the plans does not constitute a guarantee that conditions other than those indicated will not be encountered.
- Building and Canopy Roof Drain Leader Protection: Provide frost protection in accordance with Wisconsin Department of Safety and Professional Services SPS 82.30(1)(c). The minimum depth of cover for building and canopy roof drain leaders without insulation is 5 feet. Insulate roof drain leaders at locations where the depth of cover is less than 5 feet. Provide a minimum insulation thickness of 4 inches. The width of the insulation must be in accordance with Table 382.30-7, but in no case less than 12 feet wide and centered on the pipe. Install the insulation boards 6 inches above the tops of the pipes on mechanically compacted and leveled pipe bedding material. Use high density, closed cell, rigid board material equivalent to DOW Styrofoam Highload 40 Polystyrene insulation. Individual insulation board dimensions typically measure 4' wide by 8' long by 2" thick.
- Construct sanitary sewer, watermain, and storm sewer lines in accordance with the Standard Specifications for Sewer and Water Construction in Wisconsin, Sixth Edition, or the latest revised edition.
- These plans, prepared by Sunde Engineering, PLLC., do not extend to or include systems pertaining to the safety of the construction contractor or its employees, agents, or representatives in the performance of the work. The seal of Sunde Engineering's registered professional engineer hereon does not extend to any such safety systems that may now or hereafter be incorporated into these plans. The construction contractor shall prepare or obtain the appropriate safety systems which may be required by U.S. Occupational Safety and Health Administration (OSHA) and/or local regulations.
- Existing utilities shown on this plan are located as accurately as possible. However, the Engineer does not guarantee that all utilities are shown, or if shown are in the exact locations indicated on the plan. It is the Contractor's responsibility to ascertain the final vertical and horizontal location of all existing utilities (including municipal water and sewer lines and appurtenances) and to notify the owners of the utilities to be located in advance of any construction before starting construction in a given area, requesting location in the field, as exact as possible, of all utilities which may be affected by the construction.
- SPS 382.30(11)(h), SPS 382.36(7)(d)10.a, and SPS 382.40(8)(k) Locating Requirements: A means to locate buried underground exterior non-metallic sanitary and storm sewers/mains and water services/mains must be provided with tracer wire or other methods in order to be located in accord with the provisions of these code sections as per Wisconsin Statutes 182.0175(2r) and the Wisconsin Department of Safety and Professional Services SPS 82.30(11)(h). Install locating wires on all conductive and non-conductive storm sewer, sanitary sewer, and water lines in accordance with the MRWA Trace Wire Specification Guide and Details (www.mrwa.com/PDF/TracerWireSpecGuideFinalweb9.pdf). Use #12 HDPE-insulated copper-clad steel wire rated for underground service. The color of the insulating jacket shall be as follows: ground=red, storm sewer=green, sanitary sewer=green, and water lines=blue. Install the wire on the bottom side of the pipe with the wire to the pipe with tape or plastic ties at 5' intervals. Do not wrap the trace wire around the corresponding utility. Do not connect the trace wire to existing conductive utilities. Use Copperhead Dryconn 3-Way or Locking Snake Bite connectors rated for underground direct bury applications or approved equal at all crossings or service connections. Twist on connectors are not allowed. Trace wire must be properly grounded at all dead ends and services. Install grade-level/in-ground trace wire access boxes and drive-in magnesium grounding anodes at all dead ends, services, and fire hydrants. Trace wire access boxes shall be color coded as follows: storm sewer=green, sanitary sewer=green, and water lines=blue.
- Detectable Warning Tape: Install detectable underground warning tape directly above all underground utilities at a depth of 457 mm (18 inches) below finished grade, unless otherwise indicated. Underground warning tape shall be 3-inches wide with a minimum 5.0 mil overall thickness. Tape shall be manufactured using a 0.8 mil clear virgin polypropylene film, reverse printed and laminated to a 0.35 mil solid aluminum foil core, and then laminated to a 3.75 mil clear virgin polyethylene film. The aluminum backing makes underground assets easy to find using a diagonally striped design for maximum visibility and meet the APWA Color-Code standard for identification of buried utilities. Use Pro-Line Safety Products (www.prolinesafety.com) detectable marking tape or approved equal.
- See architectural for building waterproofing and foundation drainage.
- Place #3 rebar at 3' on center in all 6" thick concrete pavement locations. Place #4 rebar at 4' on center in all 8" thick concrete pavement locations.
- Place #4 x 2'-0" tie bar at 3' on center in all concrete curb and gutter.
- Provide as-built in accordance with City and Watershed District requirements. Record as-built information as construction progresses or at appropriate construction intervals. Secure and deliver to the Owner as-built information showing locations, top, and invert elevations of maintenance holes, catchbasins, cleanouts, inlet and outlet pipes, valves, hydrants, and related structures. Location ties shall be to permanent landmarks or buildings.
- In order to document and verify acceptance for adequate storm water treatment, provide a post-construction as-built survey in accordance with City and Watershed District requirements for all storm water infrastructure. This as-built survey shall include, but is not limited to, locations, top, and invert elevations of maintenance holes, catchbasins, cleanouts; all basin/swale grades; pipe inlets, outlet pipes and structures; emergency overflows, orifices, weirs; pipe sizes; drainage elevations and sizes; ponds, tanks, infiltration or filtration basins; and any associated storm water infrastructure.
- Test reports required for project close-out include, but are not limited to: density test reports, bacteriological tests on the water system, pressure tests on the water system, leak tests on the sewer system, and deflection tests on all HDPE pipe.
- Insulate utility lines at locations indicated on the plans. Provide a minimum insulation thickness of 4 inches. The insulation must be at least 4 feet wide and centered on the pipe. Install the insulation boards 6 inches above the tops of the pipes on mechanically compacted and leveled pipe bedding material. Use high density, closed cell, rigid board material equivalent to DOW Styrofoam Highload 40 Polystyrene insulation. Individual insulation board dimensions typically measure 4' wide by 8' long by 2" thick.
- Property Corners: Take care during construction and excavation in order to protect survey markers, monuments, and/or property corners.
- Removing Markings: Markings that are no longer applicable for roadway conditions or restrictions and that might cause confusion for the road user shall be removed or obliterated to be unidentifiable as a marking as soon as practical. Pavement marking obliteration shall remove the non-applicable pavement marking material, and the obliteration method shall minimize pavement scarring. Painting over existing pavement markings with black paint or spraying with asphalt shall not be accepted as a substitute for removal or obliteration.
- Completely remove marking from locations shown on the plan in accordance with Wisconsin Department of Transportation Standard Specification Section 646.3.1.4. Use one or a combination of air blasting, water blasting, and grinding. Provide a dust control system and remove accumulated sand or other materials. Collect, haul, and dispose of dust or residue from removals.

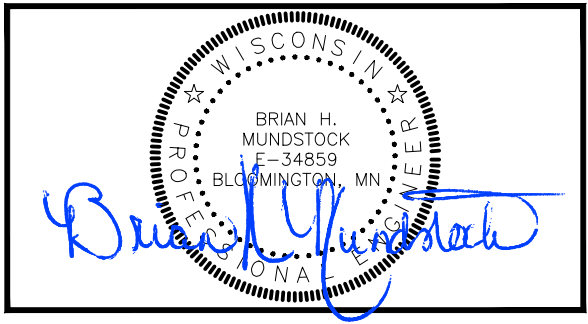
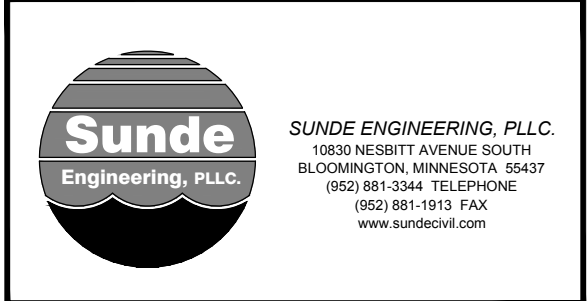
**W A T E R D I S T R I B U T I O N S Y S T E M :**

- Bring all site utilities to 2' outside of the building line with the exception of the water service. Extend water service into the building and up to the flange for the water meter.
- SPS 382.40(8)(b)2 Location: If a private water main or a water service crosses a sanitary sewer, the water piping within 5 feet of the point of crossing shall be installed in accordance with any of the following requirements: (a) The water piping shall be installed at least 12 inches above the top of the sewer. (b) The water piping shall be installed at least 18 inches below the bottom of the sewer. (c) The water or sewer piping shall be installed within a waterproof sleeve made of materials as specified for sanitary building sewers in section SPS 384.30 (2).
- SPS 382.40(8)(b)3 Separation of Water and Sewer: Private water mains and water services shall be installed at least 5 feet horizontally from any sanitary sewer. Measure the separation distance from the outer edge of the pipe to the outer edge of the contamination source (outer edge of structures, piping, etc.). Note that the Department of Natural Resources has limitations for the separation of water mains and sanitary sewers.
- Watermain Depth: Maintain 7.5-feet of cover over the top of the water lines to the finished grade. Verify elevation of proposed and existing water lines at all utility crossings. Install the water lines at greater depths in order to clear storm sewers, sanitary sewers, or other utilities as required. Include costs to lower water lines in the base bid.
- SPS 382.40(8)(b)10 Disinfection: Disinfect all completed watermains in accordance with AWWA Standard C651. If the tablet or continuous feed methods are used, disinfect the completed watermain with water that contains at least 50 ppm of available chlorine in accordance with UPC part 609.9. Do not use the tablet method on solvent-welded plastic or on screwed-joint steel pipe because of the danger of fire or explosion from the reaction of the joint compounds with the calcium hypochlorite. Retain the treated water in the pipeline for at least 24 hours. Measure the chlorine residual at the end of the 24 hour period. The free chlorine residual must be at least 10 mg/l measured at any point in the line. Measurement of the chlorine concentration at regular intervals shall be in accordance with Standard Methods, AWWA M-12, or using appropriate chlorine test kits.
- Testing: Pressure test and perform bacteriological tests on all water lines under the supervision of the City Public Works Department. Notify the City at least 24 working hours prior to any testing. Pressure test the water system in accordance with the UPC part 609.4. Pressurize the waterline to a water pressure of 1034-kPa (150-psi) gauge pressure (measured at the point of lowest elevation) by means of a pump connected to the pipe in a satisfactory manner. Do not add water to the watermain in order to maintain the required pressure during the water main pressure testing. The test section of pipe shall withstand the test without leaking for a period of not less than 15 minutes.
- All water supply piping connected to municipal water main must have a 150 psi minimum pressure rating.
- Polyvinyl Chloride (PVC) Watermain: Use AWWA C900 for all PVC watermain furnished with integral elastomeric bell and spigot joints; minimum pressure Class 150; dimension ratio not greater than 18; laying length 20' or less. Use Iron, Inc., "Series 2000 PV Megalug," or approved equal for restraint on C900 PVC watermain. Use only ANSI 316 stainless steel bolts and nuts on all watermain fittings, valves, and hydrants.
- Use mechanical joint restraint devices for joint restraint on all watermain bends having a vertical or horizontal deflection of 22-1/2 degrees or greater, all valves, stubs, extensions, tees, crosses, plugs, all hydrant valves, and all hydrants in accordance with City requirements. Use "Series 1100 Megalug" manufactured by EBAA Iron Inc., Eastland, Texas, or approved equal, installed in accordance with manufacturer's recommendations for restraint on Ductile Iron Pipe. Restraining devices are to have epoxy coating or approved equivalent. Restraining device hardware shall be ANSI 316 stainless steel, or approved equivalent.
- Watermain Valves: At all valve locations which require a 12" or smaller valve, install gate valves which are all of the compression resilient seated (CRS) type.

- Use American Flow Control's Series 2500 Ductile Iron Resilient Wedge Gate Valve, or approved equal. Gate valves shall conform to AWWA C509. Install cast iron valve boxes conforming to ASTM A48 at each valve location. Valve boxes shall be the three-piece type with 5-1/4" shafts. Use Tyler 6860-G with No. 6 base, or equivalent. Valve boxes shall have at least 6" of adjustment above and below finished grade. Drop covers on valve boxes shall be round and bear the word "WATER" cast on the top. Use Tyler 6860-G "Stayout" covers with extended skirt, or equivalent. All valve hardware shall be ANSI 316 stainless steel, or approved equivalent.
- SPS 382.30(11)(h), SPS 382.36(7)(d)10.a, and SPS 382.40(8)(k) Locating Requirements: A means to locate buried underground exterior non-metallic sanitary and storm sewers/mains and water services/mains must be provided with tracer wire or other methods in order to be located in accord with the provisions of these code sections as per Wisconsin Statutes 182.0175(2r) and the Wisconsin Department of Safety and Professional Services SPS 82.30(11)(h). Install locating wires on all conductive and non-conductive storm sewer, sanitary sewer, and water lines in accordance with the MRWA Trace Wire Specification Guide and Details (www.mrwa.com/PDF/TracerWireSpecGuideFinalweb9.pdf). Use #12 HDPE-insulated copper-clad steel wire rated for underground service. The color of the insulating jacket shall be as follows: ground=red, storm sewer=green, sanitary sewer=green, and water lines=blue. Install the wire on the bottom side of the pipe below the spring line. Fasten the wire to the pipe with tape or plastic ties at 5' intervals. Do not wrap the trace wire around the corresponding utility. Do not connect the trace wire to existing conductive utilities. Use Copperhead Dryconn 3-Way or Locking Snake Bite connectors rated for underground direct bury applications or approved equal at all crossings or service connections. Twist on connectors are not allowed. Trace wire must be properly grounded at all dead ends and services. Install grade-level/in-ground trace wire access boxes and drive-in magnesium grounding anodes at all dead ends, services, and fire hydrants. Trace wire access boxes shall be color coded as follows: storm sewer=green, sanitary sewer=green, and water lines=blue.
  - Detectable Warning Tape: Install detectable underground warning tape directly above all underground utilities at a depth of 457 mm (18 inches) below finished grade, unless otherwise indicated. Underground warning tape shall be 3-inches wide with a minimum 5.0 mil overall thickness. Tape shall be manufactured using a 0.8 mil clear virgin polypropylene film, reverse printed and laminated to a 0.35 mil solid aluminum foil core, and then laminated to a 3.75 mil clear virgin polyethylene film. The aluminum backing makes underground assets easy to find using a non-ferrous locator. Tape shall be printed using a diagonally striped design for maximum visibility and meet the APWA Color-Code standard for identification of buried utilities. Use Pro-Line Safety Products (www.prolinesafety.com) detectable marking tape or approved equal.
  - Threaded hose connections including hose bibbs and hydrants must include a back flow prevention device in accordance with UPC part 603.0.
  - All newly installed or replacement pipes, pipe fittings, plumbing fittings and fixtures, including backflow preventers, that are installed on potable water systems or systems that are designed to distribute water for potable use, are required to meet the Reduction of Lead in Drinking Water Act, which establishes a maximum lead content of 0.25 percent by weighted average of the wetted surfaces.
  - Do not exceed the manufacturer's specifications for curvature of pipe and deflection at pipe joints. Securely close all open ends of pipe and fittings with watertight plugs when work is not in progress. Keep the interior of all pipes clean and remove any dirt or debris from joint surfaces after the pipes have been lowered into the trench. Install all valves plumb and located according to the plans.
  - Insulate the watermain at locations indicated on the plans. Provide a minimum insulation thickness of 4 inches. The insulation must be at least 4 feet wide and centered on the pipe. Install the insulation boards 6 inches above the tops of the pipes on mechanically compacted and leveled pipe bedding material. Use high density, closed cell, rigid board material equivalent to DOW Styrofoam Highload 40 Polystyrene insulation. Individual insulation board dimensions typically measure 4' wide by 8' long by 2" thick.



**KWIK TRIP, Inc.**  
**P.O. BOX 2107**  
**1626 OAK STREET**  
**LACROSSE, WI 54602-2107**  
**PH. (608) 781-8988**  
**FAX (608) 781-8960**



**UTILITY NOTES**

**CONVENIENCE STORE 762**

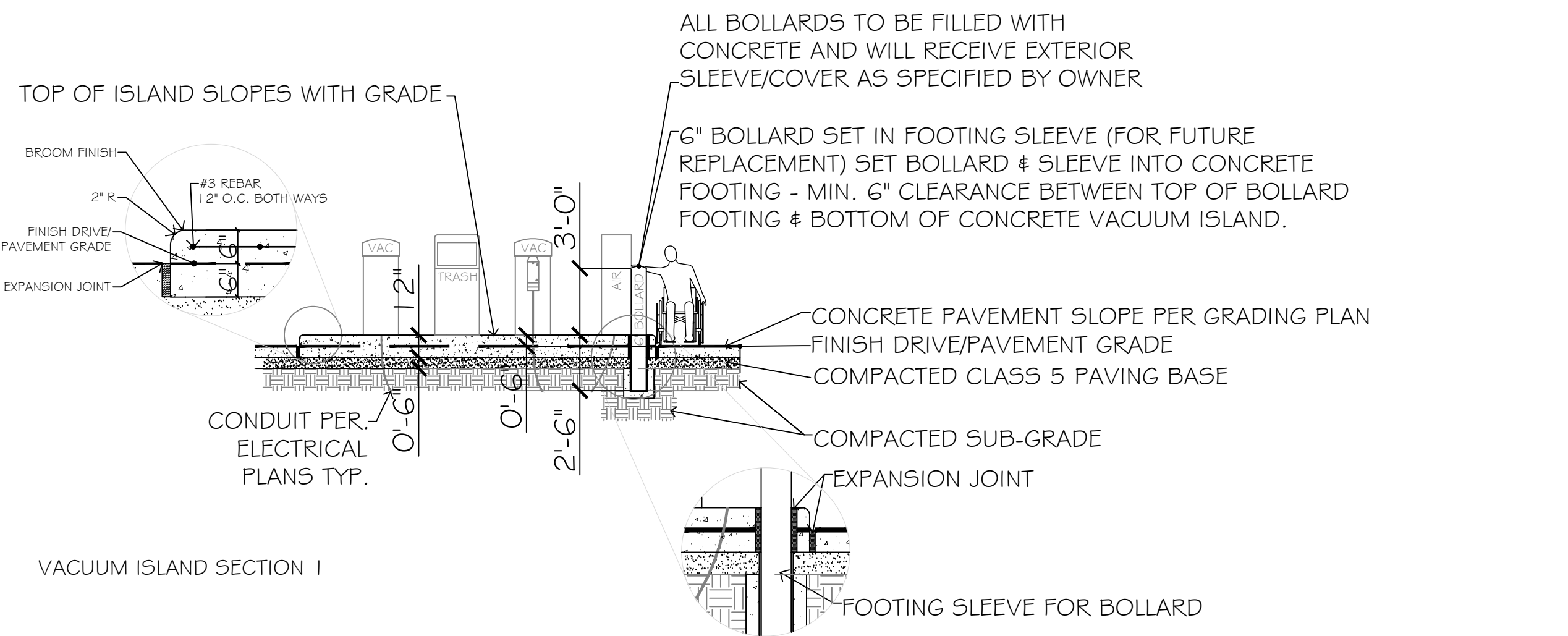
**LA CROSSE, WISCONSIN**

NO.	DATE	DESCRIPTION
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-	17JAN24	CITY SUBMITTAL
-		
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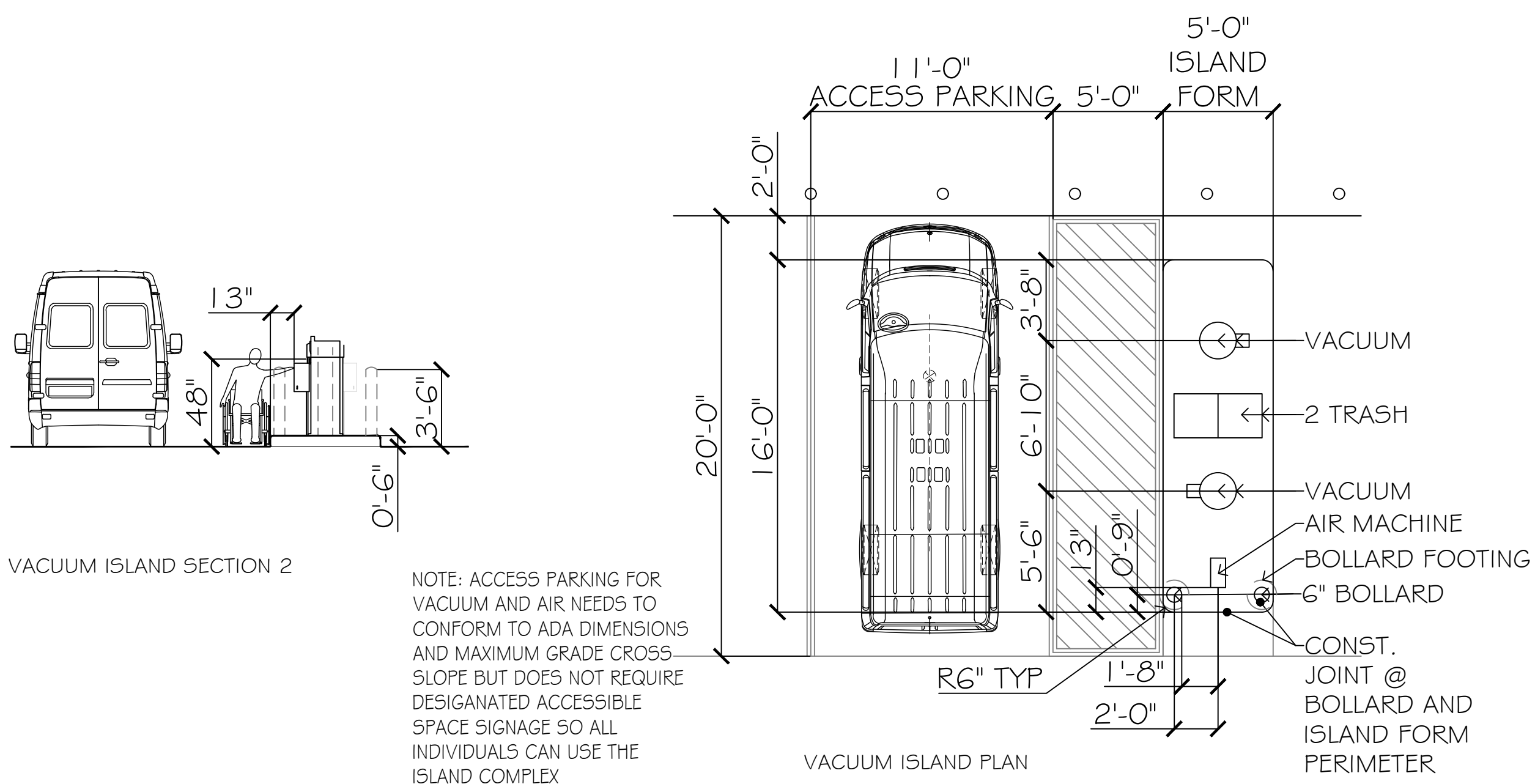
DRAWN BY:	MW
SCALE:	GRAPHIC
PROJ. NO.:	23-762
DATE:	2023-12-22
SHEET:	<b>C401</b>

KWIK TRIP, P.L.L.C.





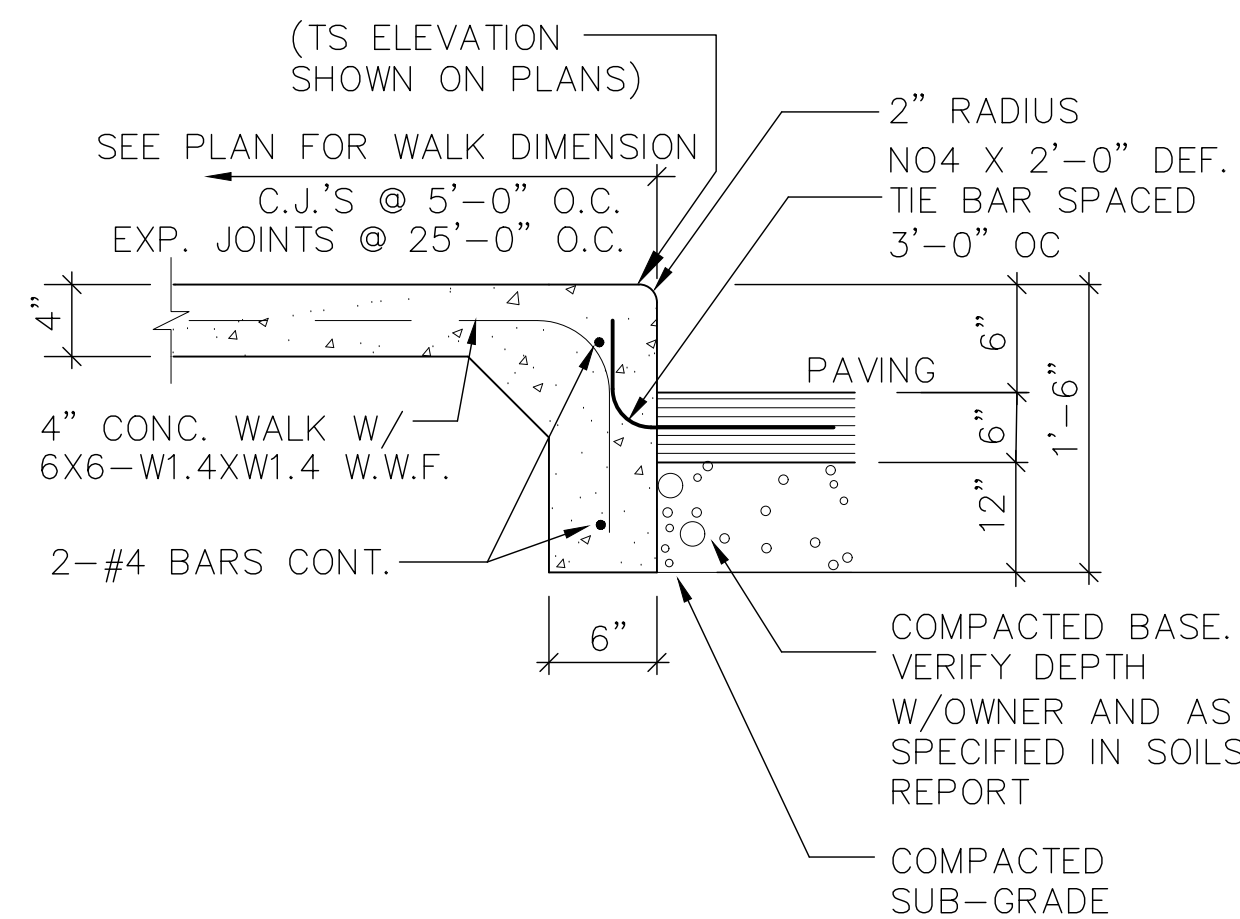
VACUUM ISLAND SECTION 1



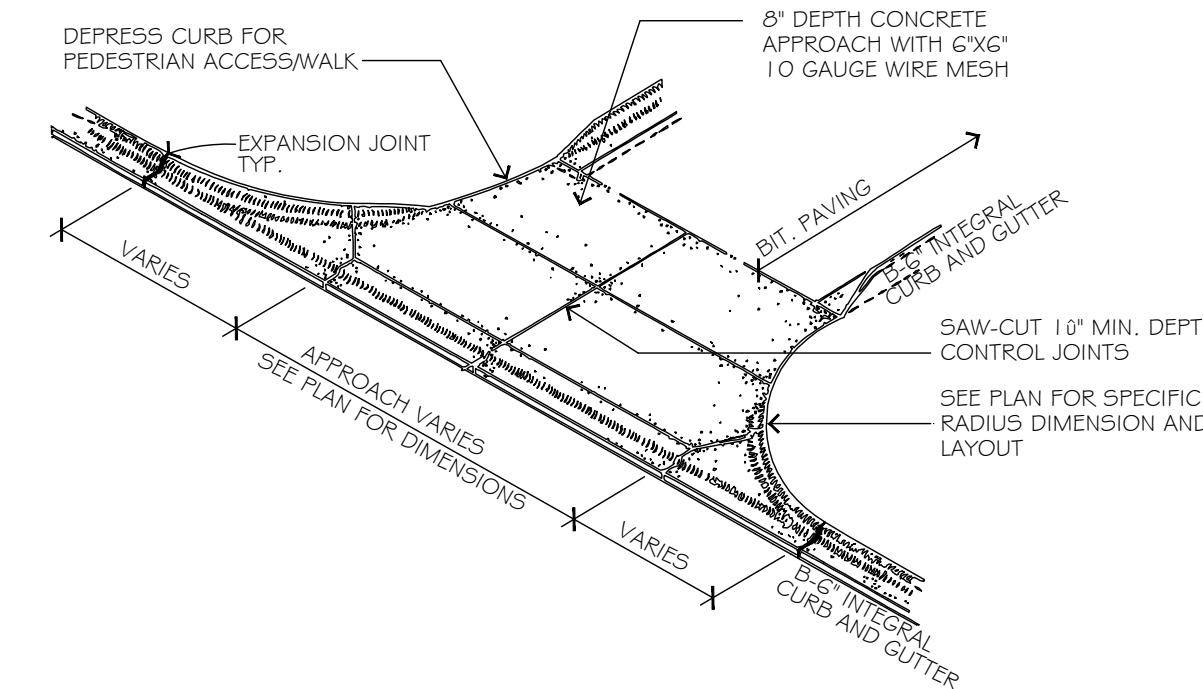
VACUUM ISLAND SECTION 2

VACUUM ISLAND DETAILS  
NOT TO SCALE

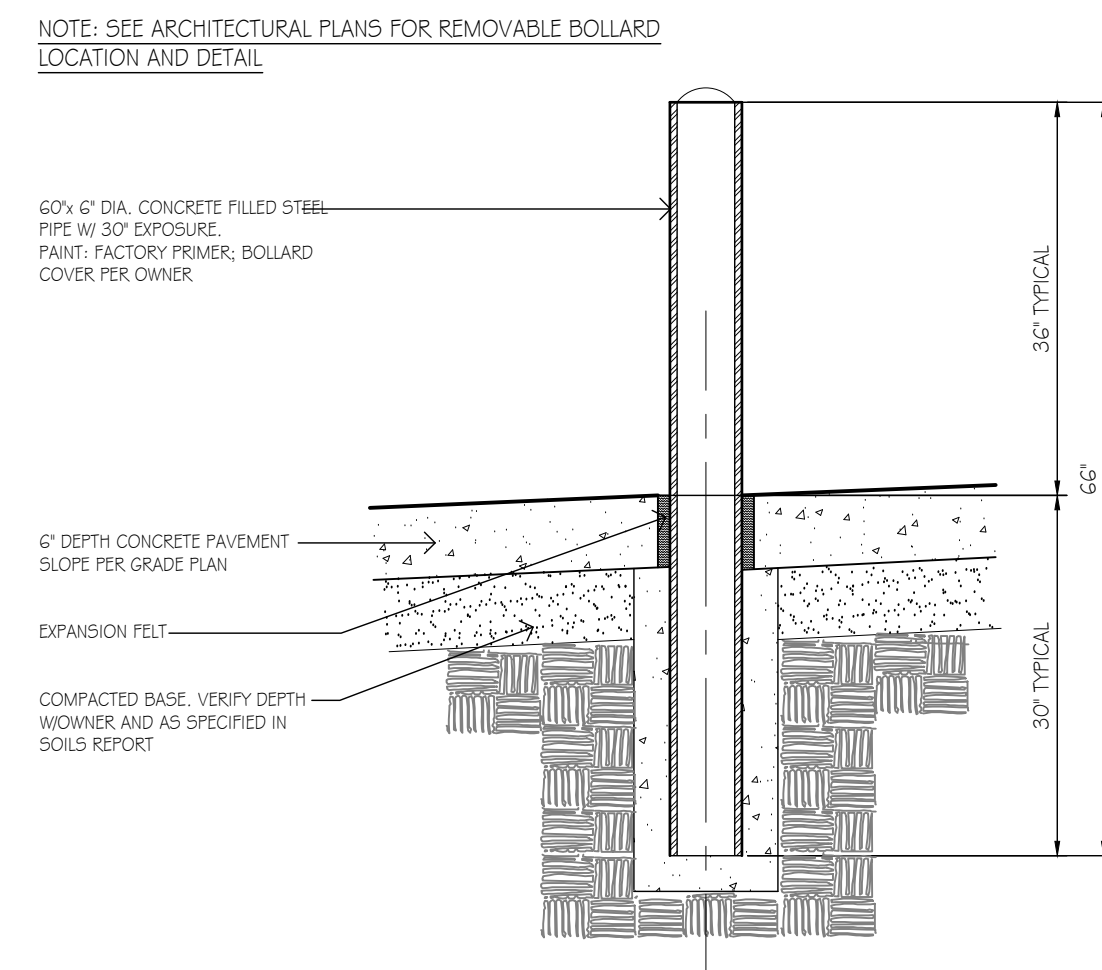
NOTE: ACCESS PARKING FOR VACUUM AND AIR NEEDS TO CONFORM TO ADA DIMENSIONS AND MAXIMUM GRADE CROSS SLOPE BUT DOES NOT REQUIRE DESIGNATED ACCESSIBLE SPACE SIGNAGE SO ALL INDIVIDUALS CAN USE THE ISLAND COMPLEX



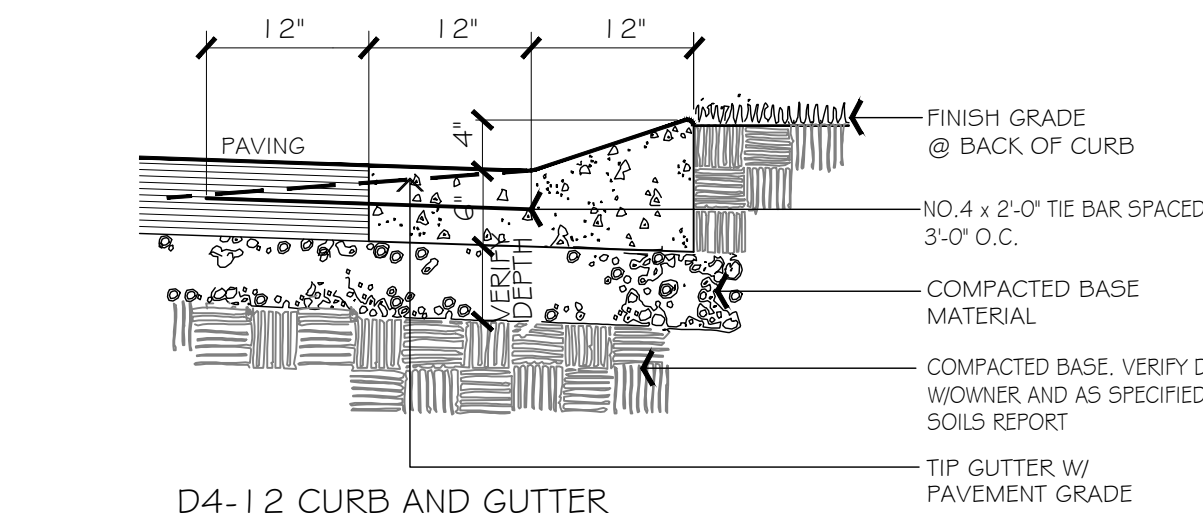
7 | SIDEWALK/ CURB DETAIL  
C500 NOT TO SCALE



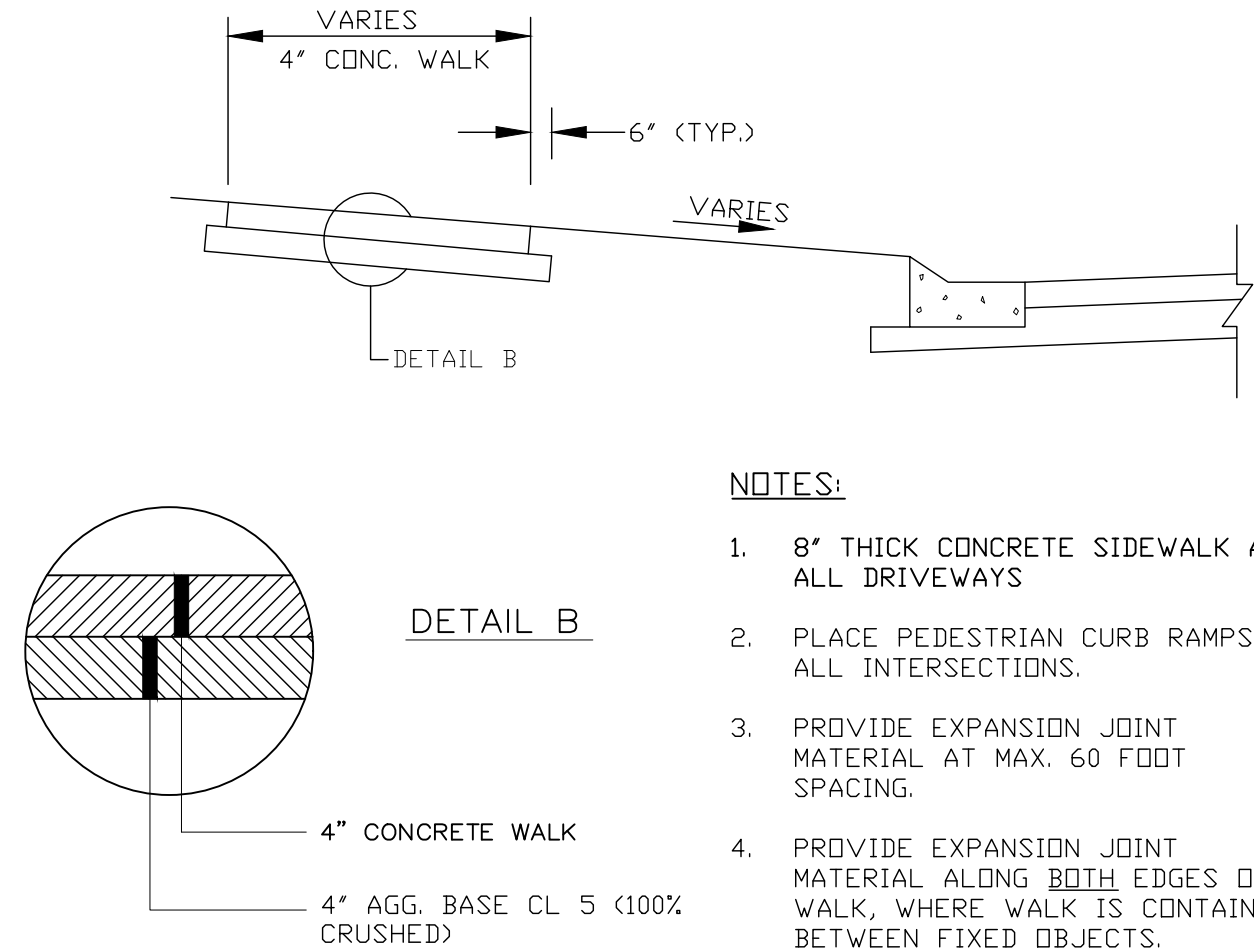
10 | CONCRETE APPROACH DETAIL  
C500 NOT TO SCALE



8 | 36" HEIGHT PIPE BOLLARD  
C500 SCALE - 3/8" = 1'-0"



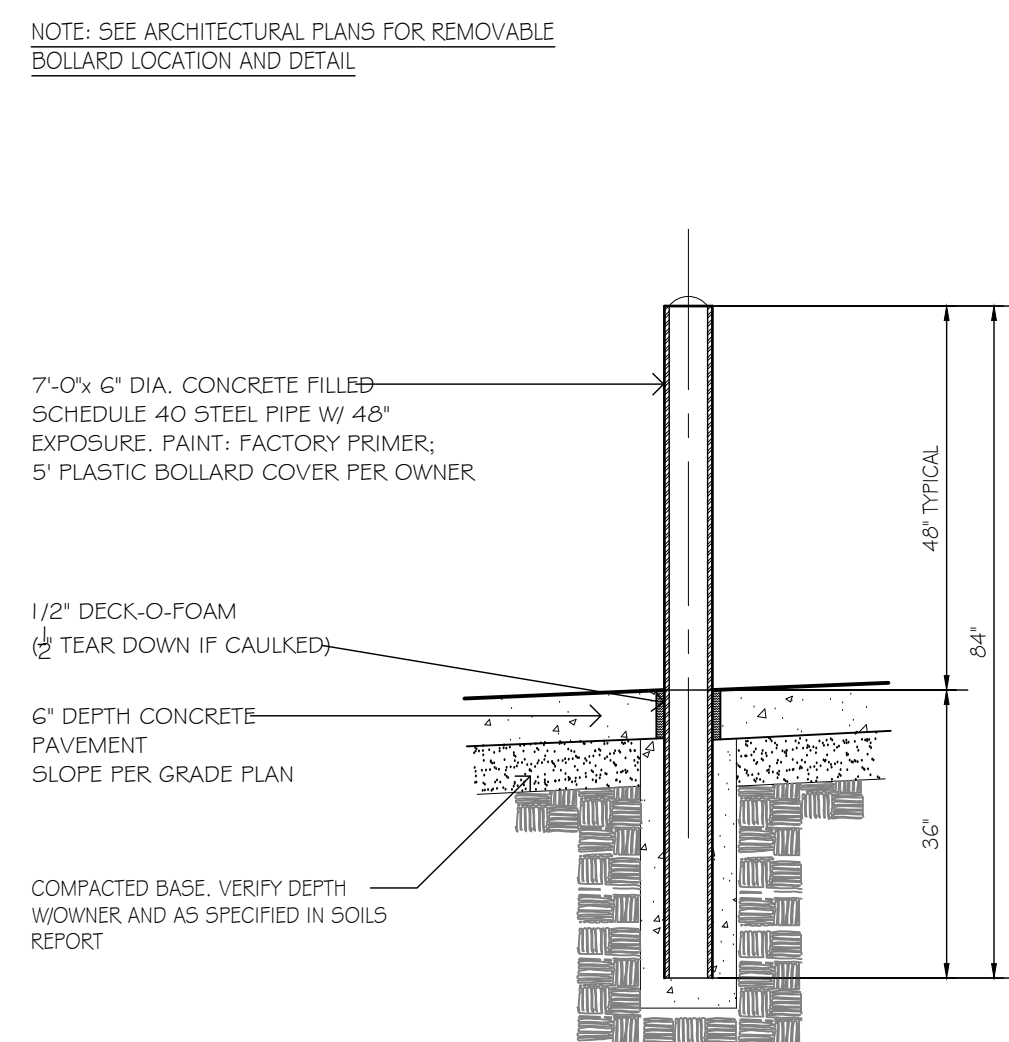
11 | CONCRETE CURB DETAIL  
C500 SCALE - 3/4" = 1'-0"



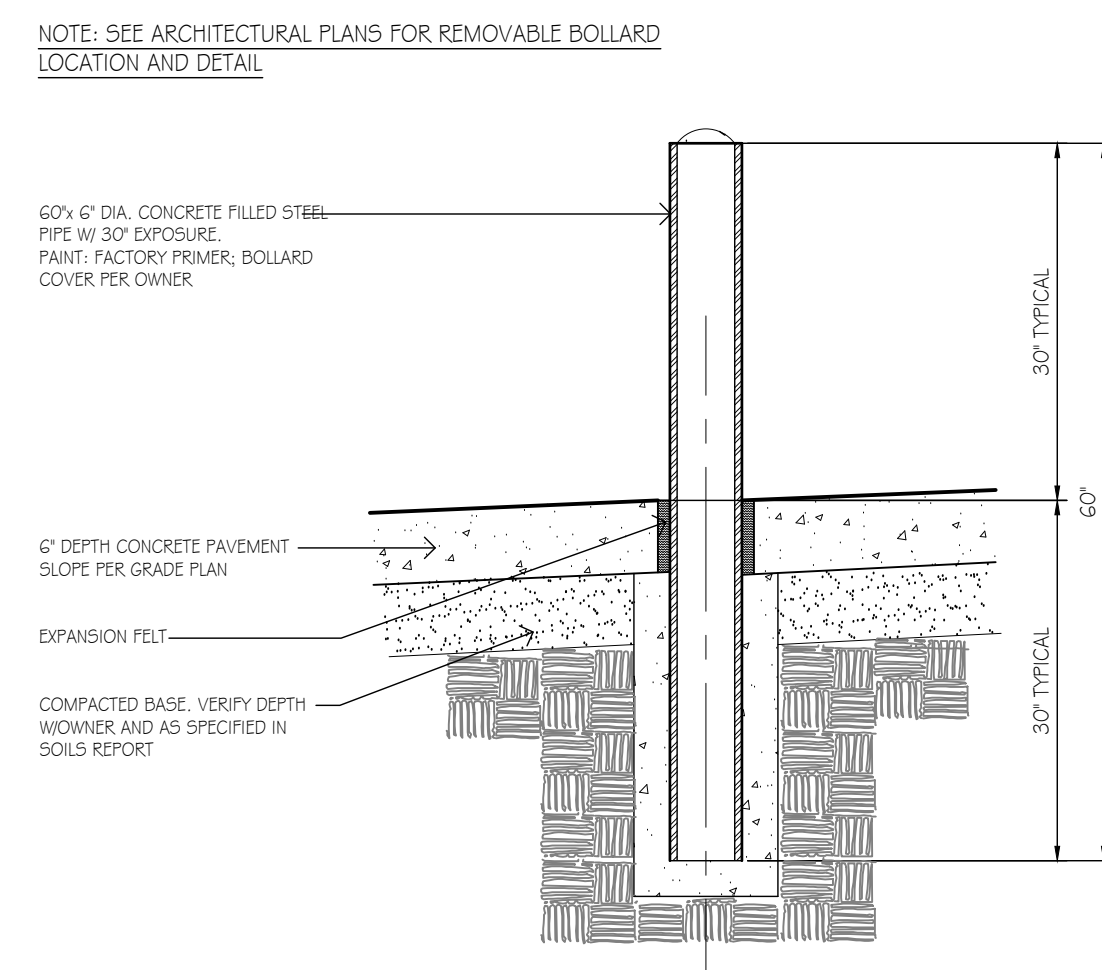
3 | CONCRETE WALK/ PAD DETAIL  
C500 NOT TO SCALE

NOTES:

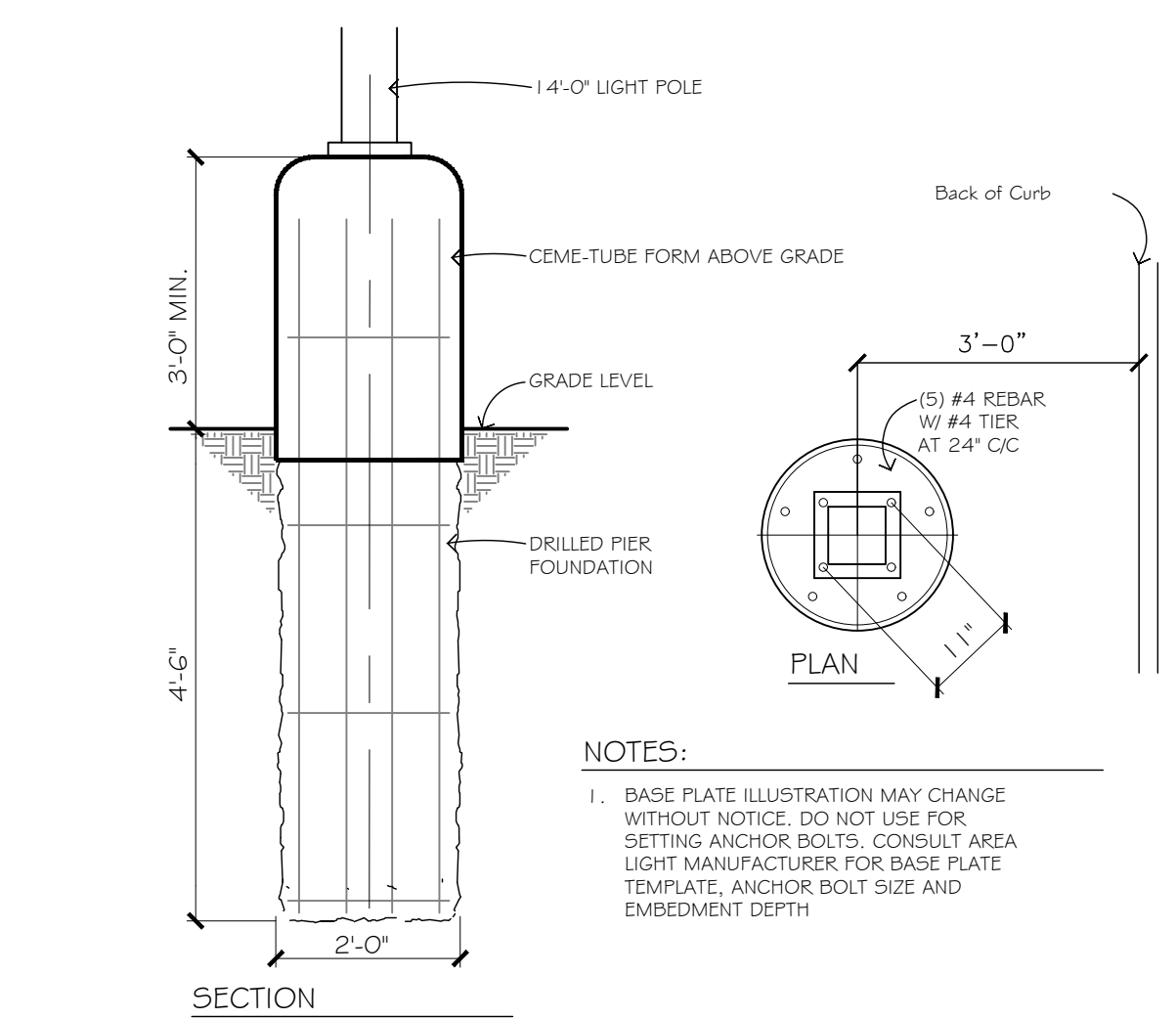
- 8" THICK CONCRETE SIDEWALK AT ALL DRIVEWAYS
- PLACE PEDESTRIAN CURB RAMPS AT ALL INTERSECTIONS.
- PROVIDE EXPANSION JOINT MATERIAL AT MAX. 60 FOOT SPACING.
- PROVIDE EXPANSION JOINT MATERIAL ALONG BOTH EDGES OF WALK, WHERE WALK IS CONTAINED BETWEEN FIXED OBJECTS.



6 | 48" HEIGHT PIPE BOLLARD  
C500 SCALE - 1/2" = 1'-0"



9 | 30" HEIGHT PIPE BOLLARD  
C500 SCALE - 3/8" = 1'-0"

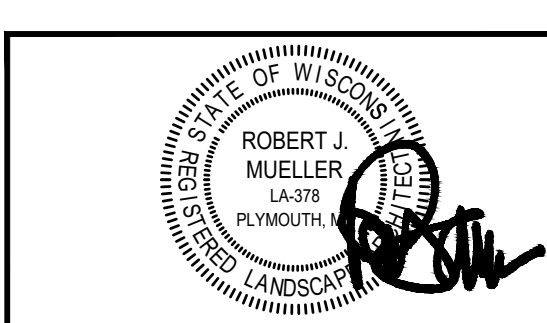


12 | ROUND AREALIGHT FOUNDATION  
C500 SCALE - 1/2" = 1'-0"



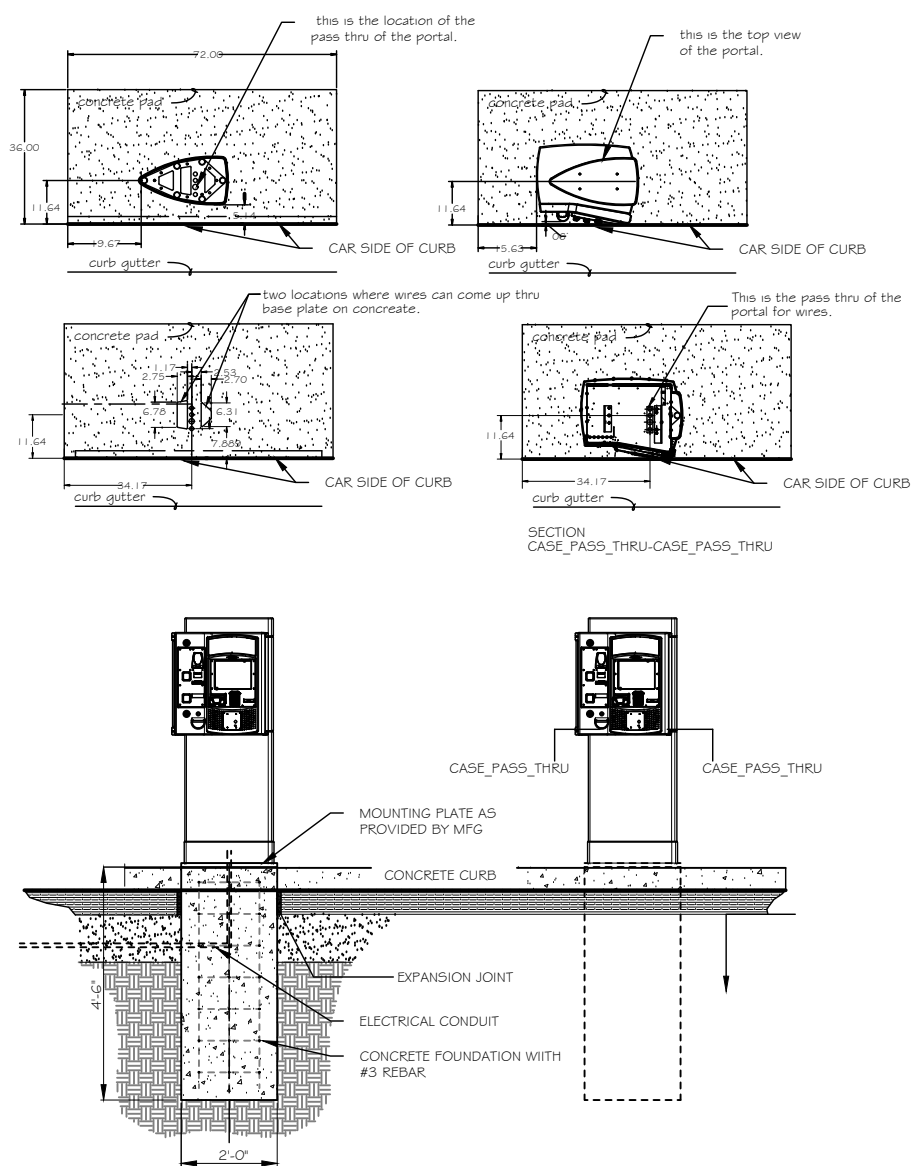
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FAX (608) 781-8960

INSITES  
SITE PLANNING LANDSCAPE ARCHITECTURE  
3131 Fernbrook Lane North, STE 260  
Plymouth Minnesota 55447  
763.383.8400  
fax 763.383.8400



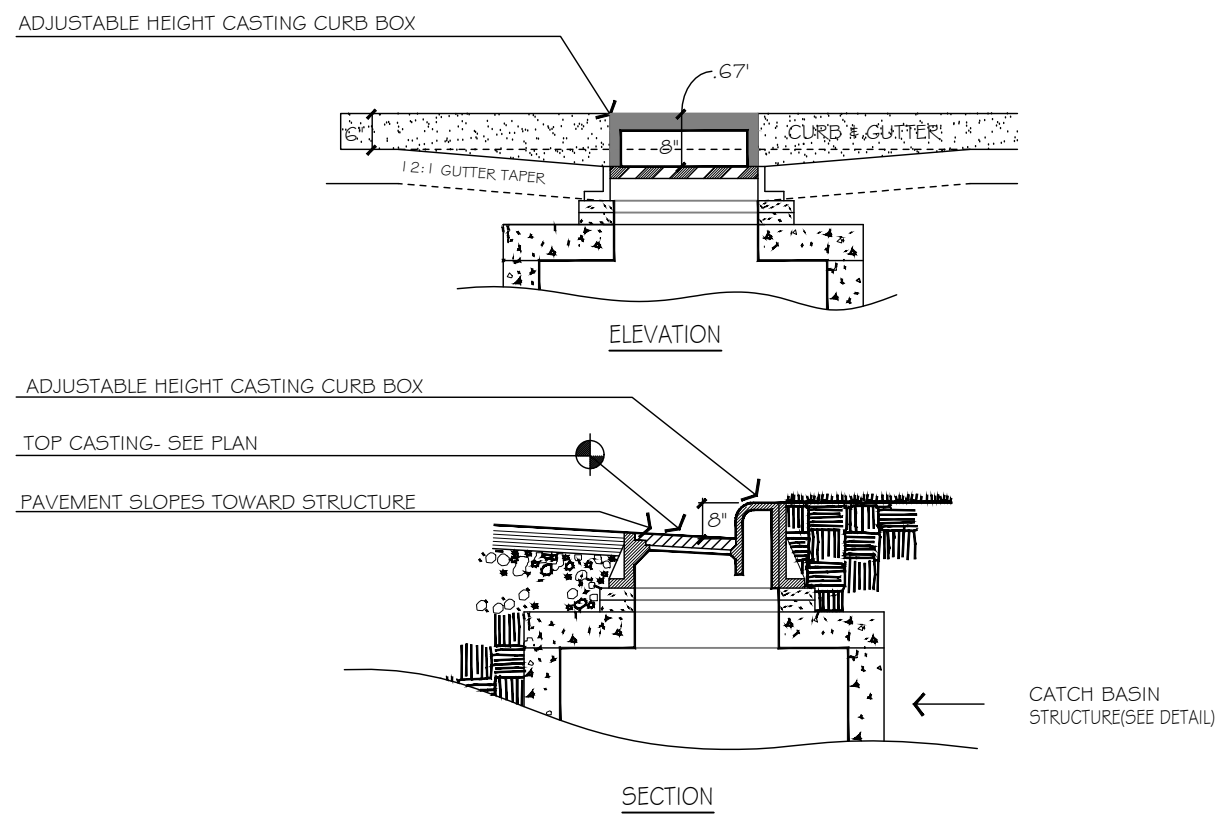
SITE PLAN DETAILS	CONVENIENCE STORE 762		LA CROSSE, WISCONSIN	
	NO.	DATE	DESCRIPTION	
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	-	17JAN24	CITY SUBMITTAL	
DRAWN BY		SCALE GRAPHIC		
PROJ. NO.		23-762		
DATE		2023-12-22		
SHEET		C500		



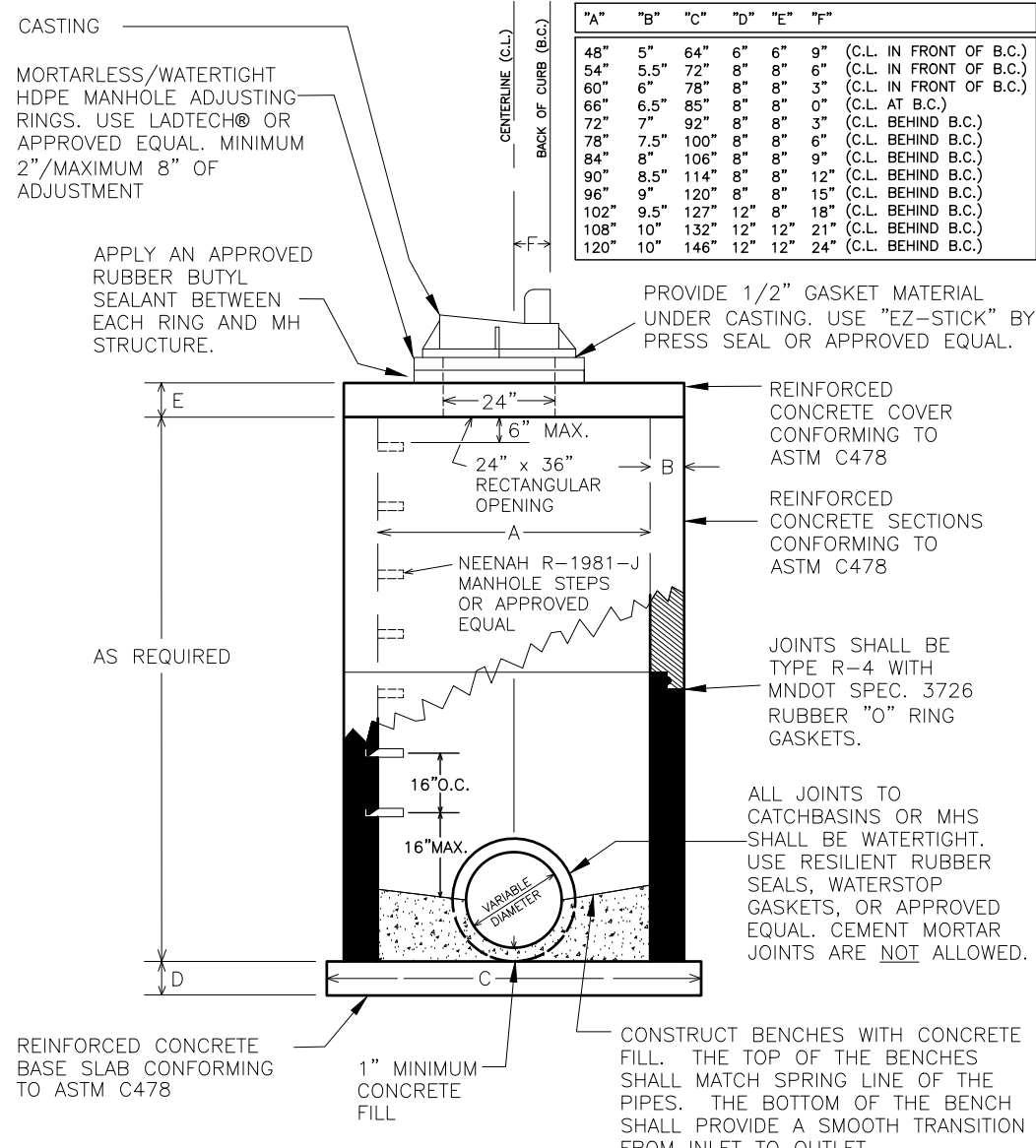


1 CARWASH PAY CONTROLLER  
C501 NOT TO SCALE

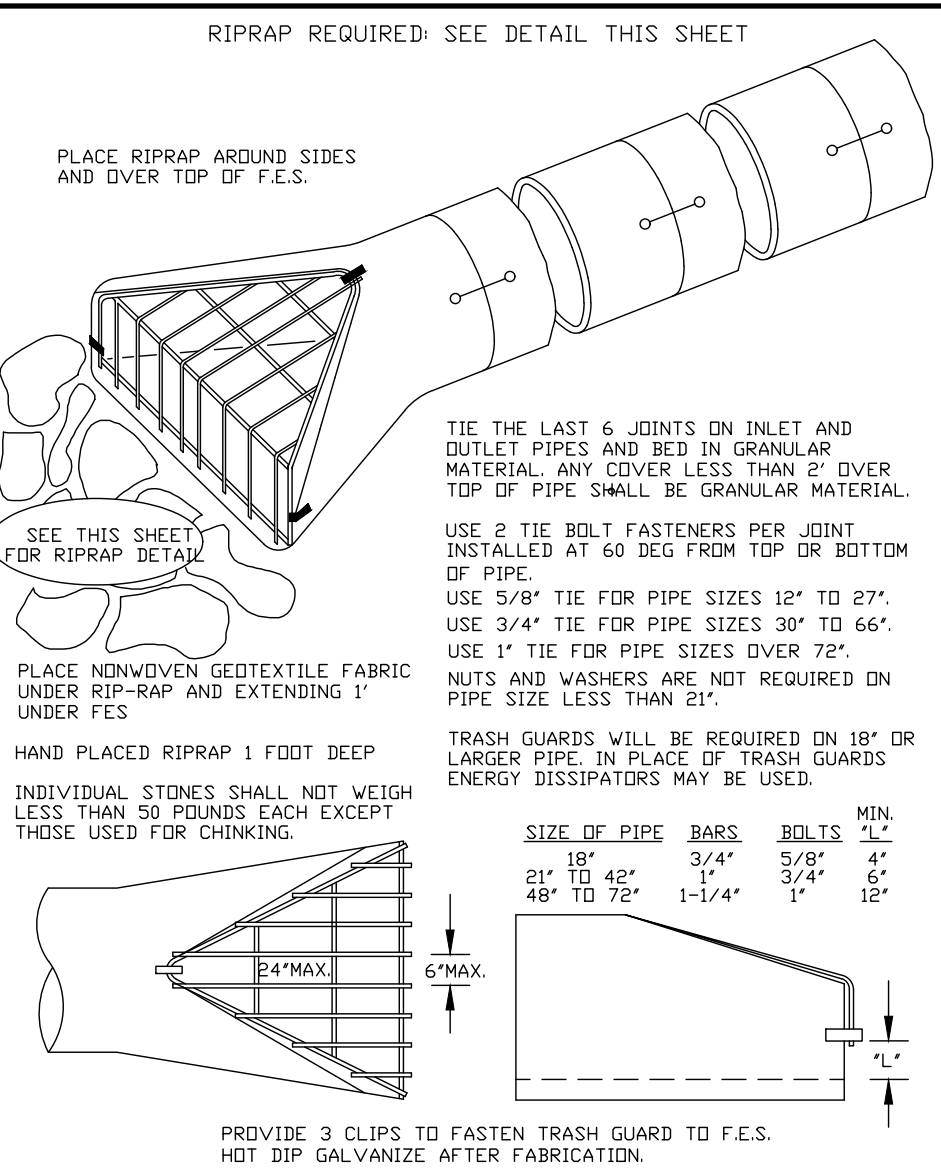
NOTE: THIS CURB CONSTRUCTION DETAIL IS TO BE USED AT LOW POINTS WHEN INDICATED ON PLAN. SEE GRADE PLAN FOR SPECIFIC CURB ELEVATIONS THAT REFLECT 8" DIFFERENCE FROM TOP OF CURB TO CASTING (SEE ACTUAL CD DETAILS FOR STRUCTURE INFO.)



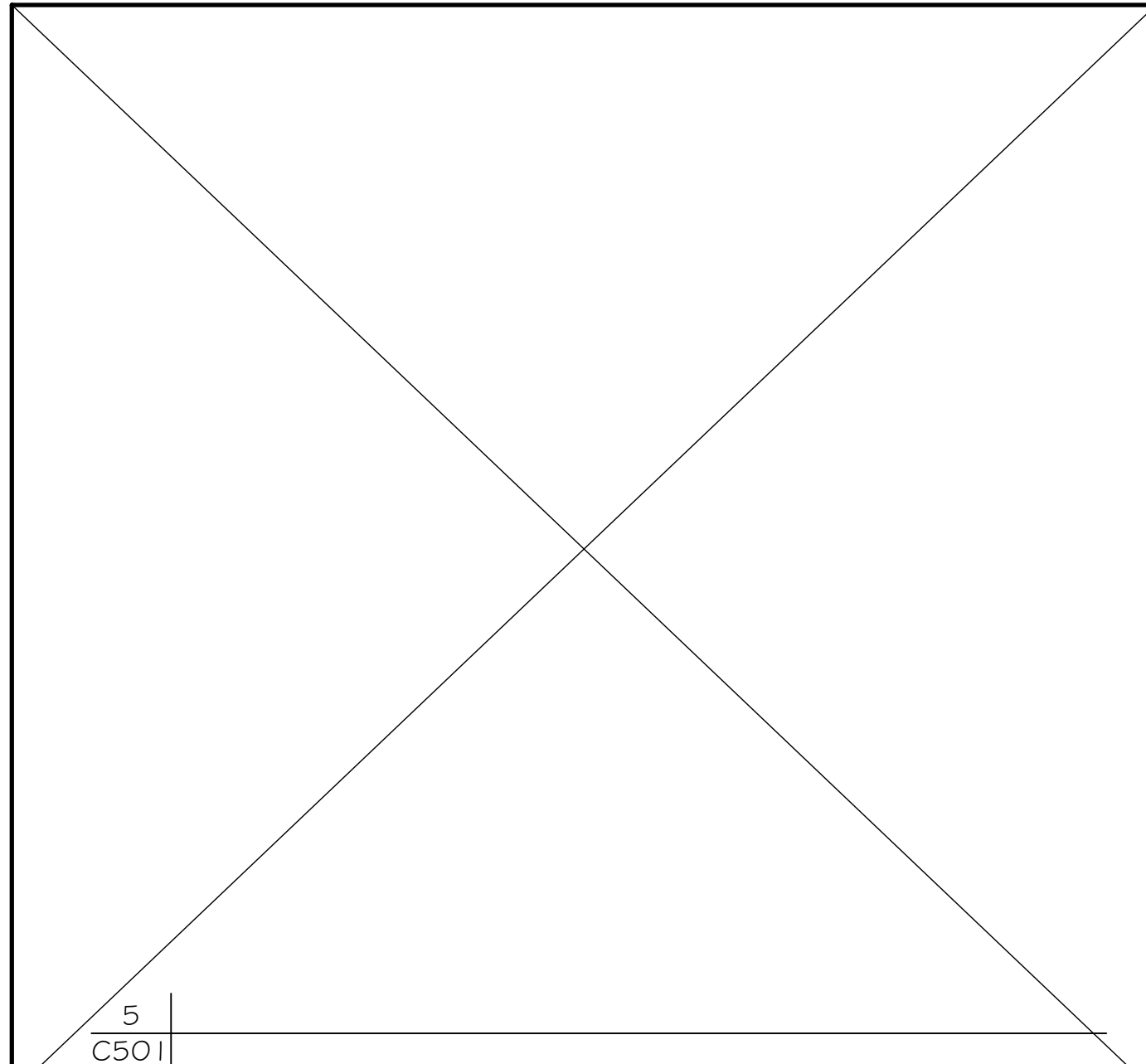
4 CURBLINE DETAIL AT CATCHBASIN CURB/PAVEMENT LOW POINTS (SPECIFIC LOCATIONS)  
C501 NOT TO SCALE



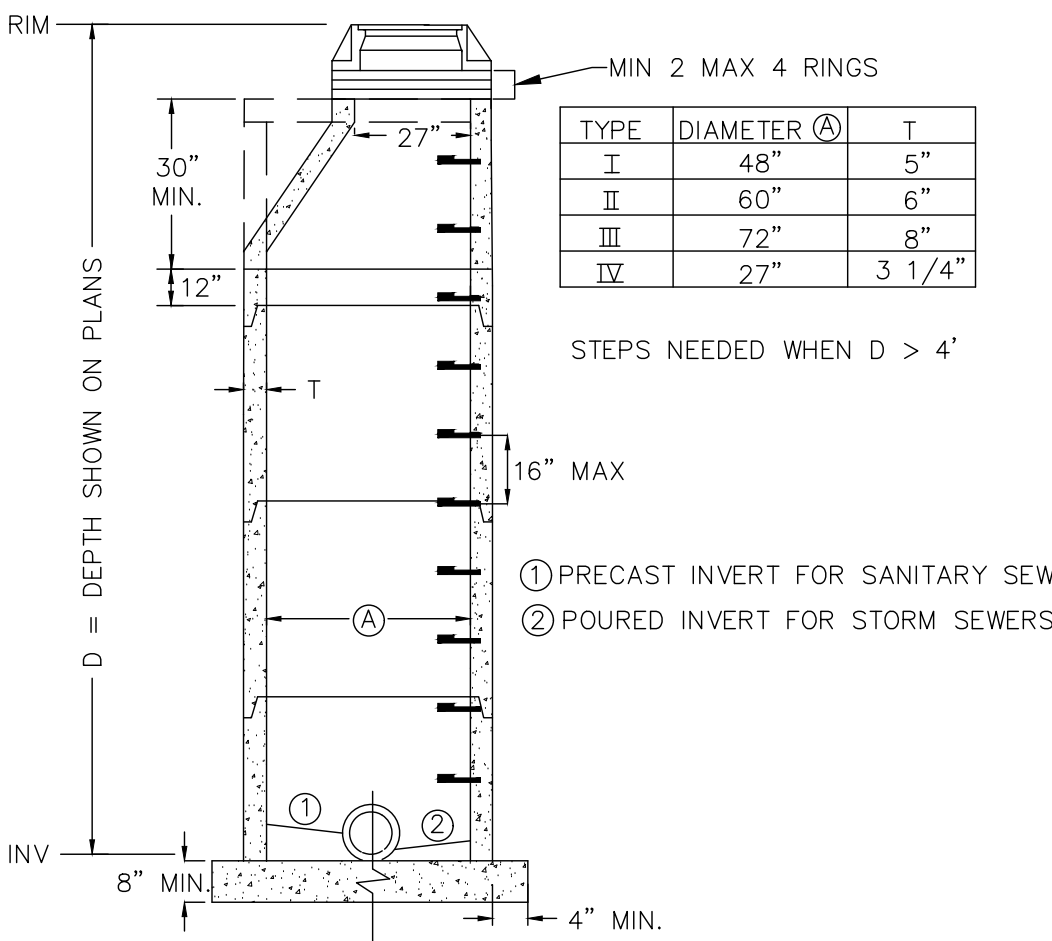
7 STANDARD STORM SEWER CATCHBASIN  
C501 NOT TO SCALE



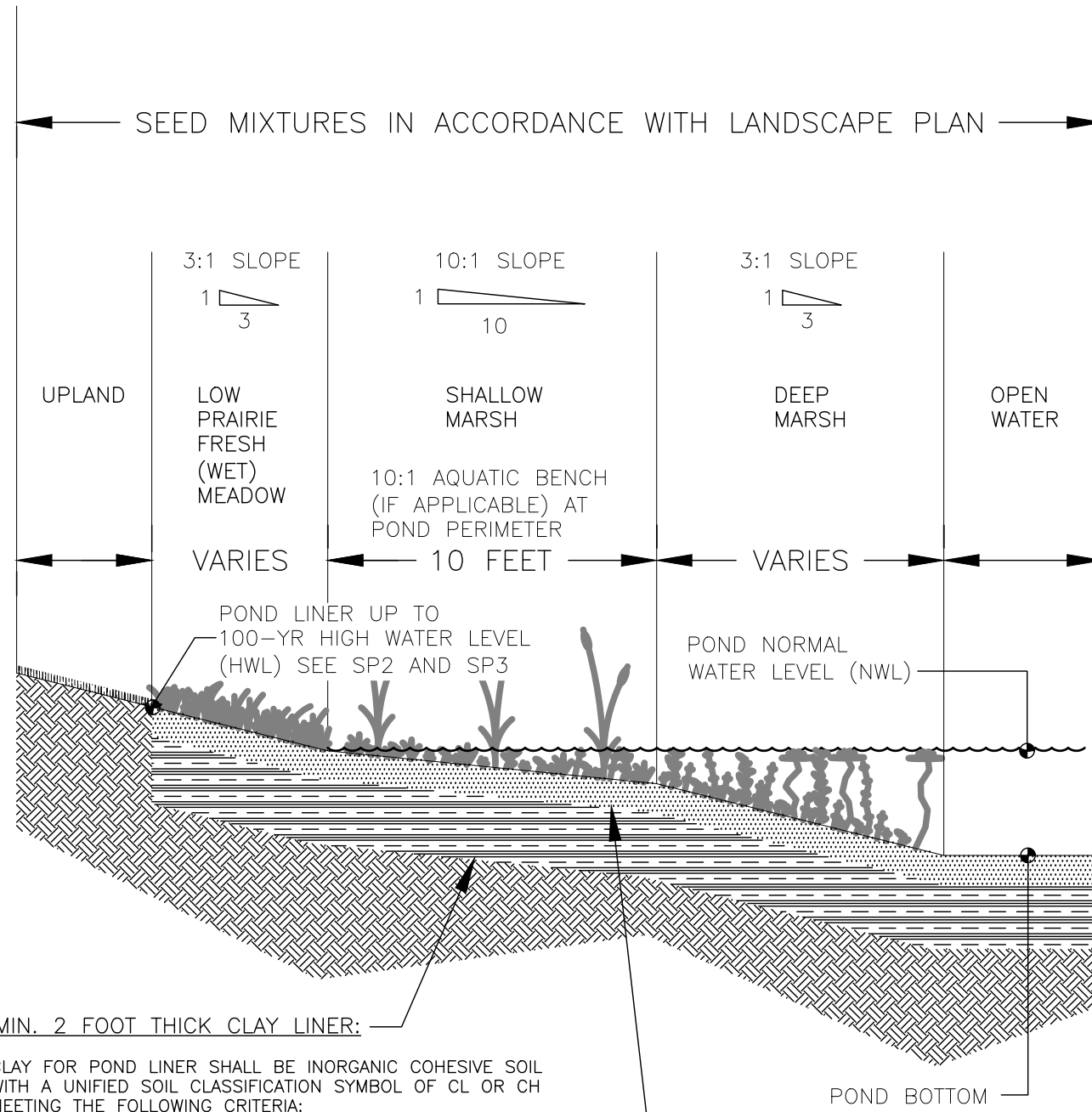
2 FLARED END SECTION WITH TRASH GUARD  
C501 NOT TO SCALE



5  
C501



8 PRECAST REINFORCE CONC. MANHOLE  
C501 NOT TO SCALE



SEED MIXTURES IN ACCORDANCE WITH LANDSCAPE PLAN

3:1 SLOPE  
10:1 SLOPE  
3:1 SLOPE

LOW PRAIRIE FRESH (WET) MEADOW  
SHALLOW MARSH  
DEEP MARSH  
OPEN WATER

10:1 AQUATIC BENCH (IF APPLICABLE) AT POND PERIMETER

VARIES  
10 FEET  
VARIES

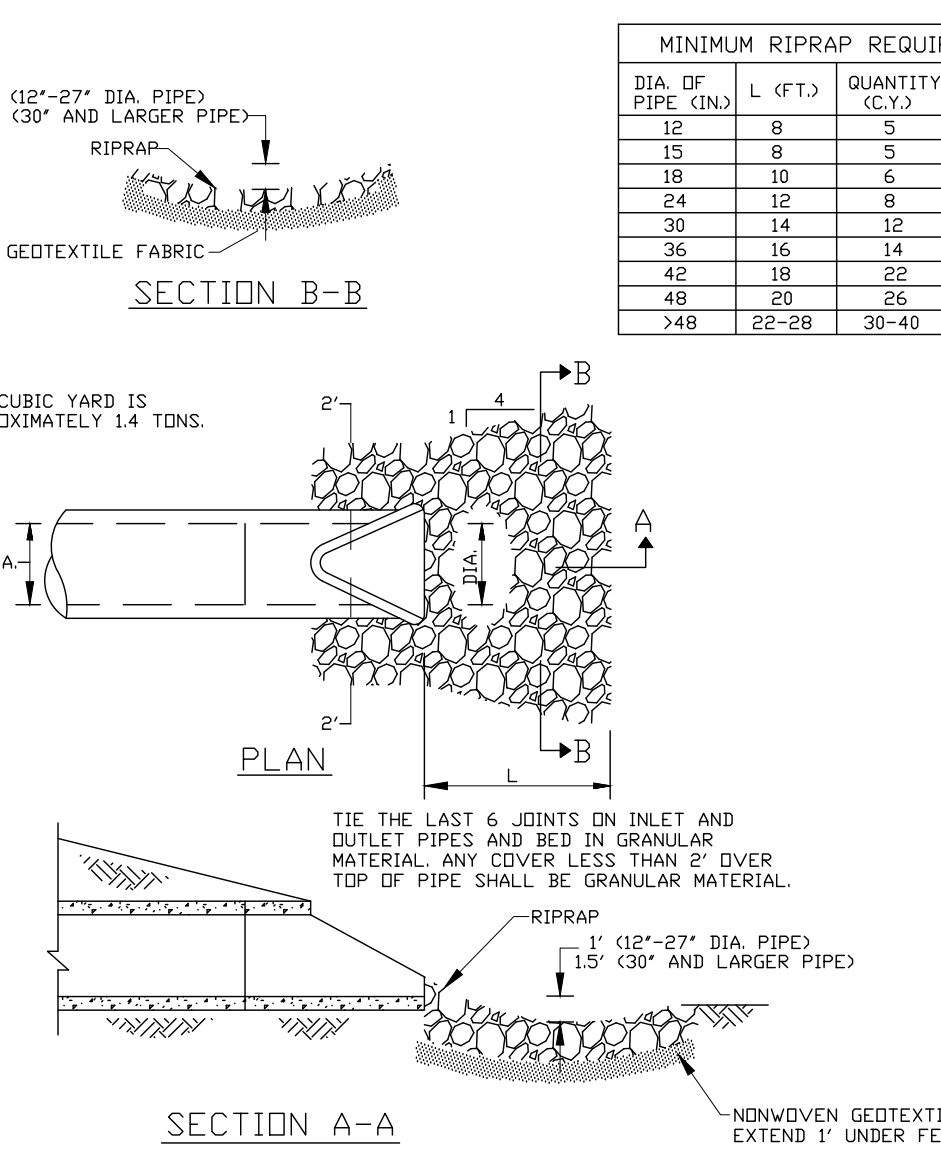
POND LINER UP TO 100-YR HIGH WATER LEVEL (HWL) SEE SP2 AND SP3  
POND NORMAL WATER LEVEL (NWL)

MIN. 2 FOOT THICK CLAY LINER:  
CLAY FOR POND LINER SHALL BE INORGANIC COHESIVE SOIL WITH A UNIFIED SOIL CLASSIFICATION SYMBOL OF CL OR CH MEETING THE FOLLOWING CRITERIA:

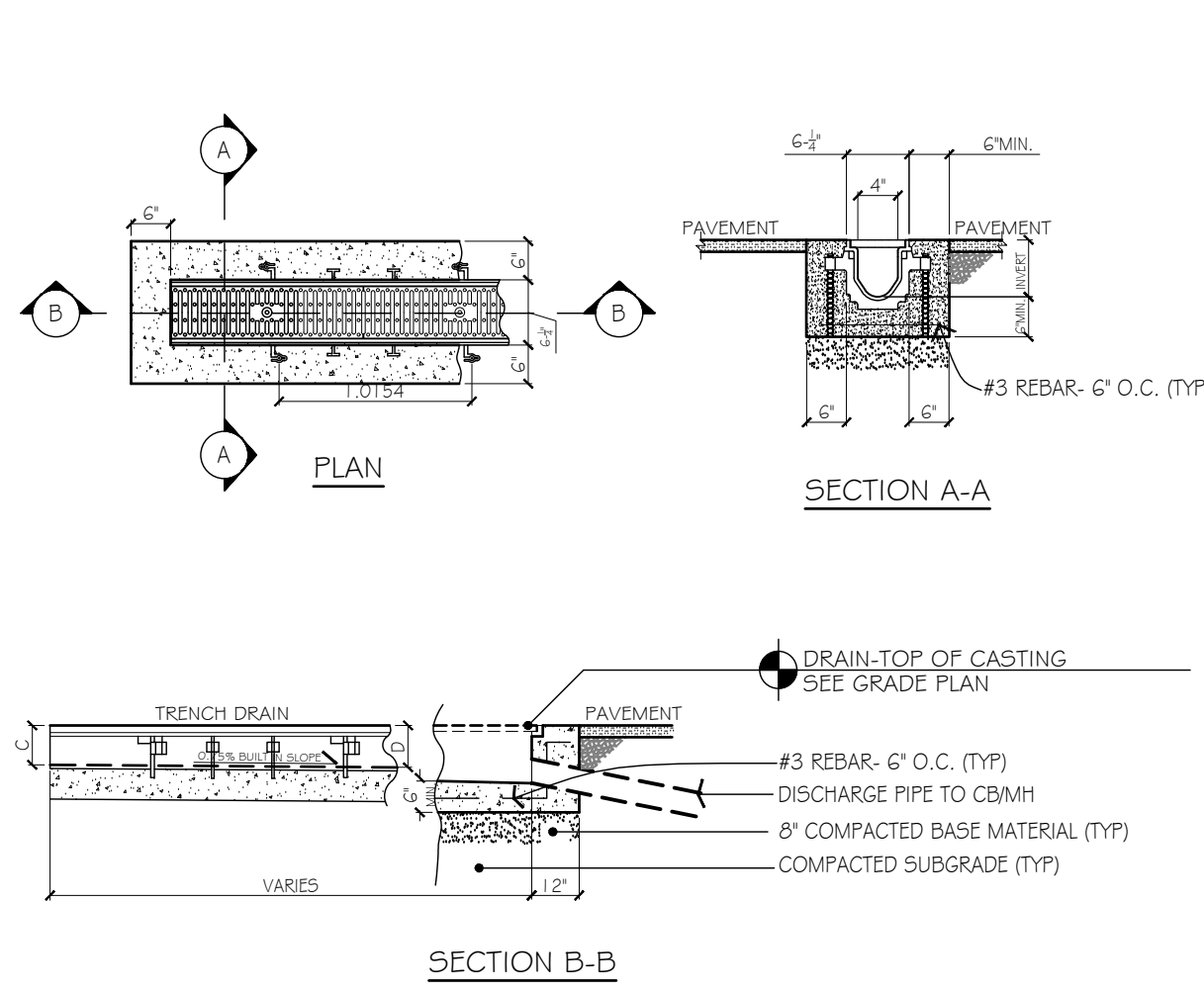
- LIQUID LIMIT (LL): LL > 25 WITH NONE LESS THAN 20.
- PLASTICITY INDEX (PI): PI > 12 WITH NONE LESS THAN 10.
- PERCENT FINER THAN #200 SIEVE: > 50% (WET SIEVE).
- PERCENT FINER THAN 1 INCH: > 95%.
- MAXIMUM PARTICLE SIZE: 2 INCH (DRY SIEVE).
- LINER THICKNESS: 2.0 FEET MIN.
- COMPACTION REQUIREMENT: 95% OF STANDARD PROCTOR MAXIMUM DRY DENSITY AND 90% FOR MODIFIED PROCTOR.
- MAXIMUM HYDRAULIC CONDUCTIVITY OF COMPACTED SAMPLE AT 95% OF MAXIMUM DENSITY (ASTM D-698): 1x10E-7 CM/SEC.
- CLAY INSTALLED WET OF OPTIMUM IF USING STANDARD PROCTOR, AND 2% WET OF OPTIMUM IF USING MODIFIED PROCTOR.
- SMOOTH DRUM COMPACTION EQUIPMENT IS NOT ALLOWED FOR CLAY COMPACTION.
- CLAY SHALL BE PLACED IN LIFTS OF NO GREATER THAN 6" PRIOR TO COMPACTION.
- CLAY SHALL BE DISKED OR OTHERWISE MECHANICALLY PROCESSED BEFORE COMPACTION TO BREAK UP CLOUDS. MAXIMUM CLOUD SIZE IS 4".

SUBCUT 4 INCHES BELOW THE PROPOSED FINISHED GRADE. BACKFILL WITH HYDRIC/ORGANIC SOIL TO FINISHED GRADE. PREPARE AND SEED THE HYDRIC SOIL MATERIAL AS SOON AS PRACTICAL IN ORDER TO MINIMIZE THE NATURAL GERMINATION OF UNDESIRABLE REED CANARY GRASSES.

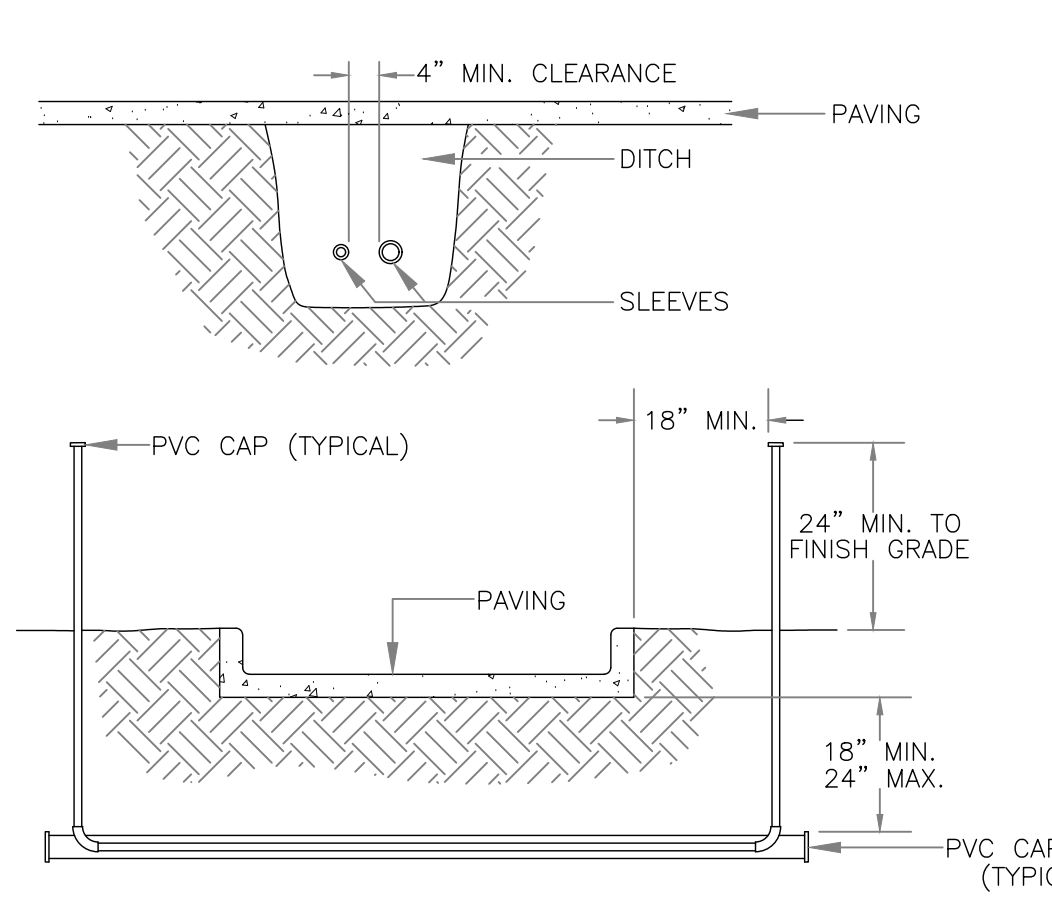
11 POND CROSS-SECTION  
SP6 NOT TO SCALE



3 RIP RAP DETAIL FOR FLARED END SECTIONS  
C501 NOT TO SCALE



6 Z 886 TRENCH DRAIN DETAIL  
C501 SCALE - 1/4"=1'-0"



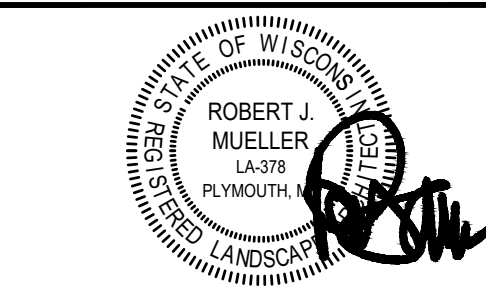
9 TYPICAL SLEEVING  
C501 NOT TO SCALE

**Kwik Trip**

**Kwik Star**

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3131 Fernbrook Lane North, STE 260  
Plymouth Minnesota 55447  
763.383.8400  
fax 763.951.8400



**SITE PLAN DETAILS**  
**CONVENIENCE STORE 762**  
**LACROSSE, WISCONSIN**

NO.	DATE	DESCRIPTION
-	04JAN24	SUBMITTAL
-	17JAN24	CITY SUBMITTAL
-		
-		
-		

DRAWN BY: \_\_\_\_\_  
SCALE: GRAPHIC  
PROJ. NO.: 23-762  
DATE: 2023-12-22  
SHEET: **C501**



8D1 sheet a: Concrete Curb, Concrete Curb & Gutter and Ties

**GENERAL NOTES**  
 DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.  
 PAVEMENT TIES AND TIE BARS SHALL BE EPOXY COATED IN CONFORMANCE WITH SUBSECTION 505.2.6.2 OF THE STANDARD SPECIFICATIONS.  
 INTEGRAL CURB & GUTTER SHALL CONFORM TO THE DETAILS SHOWN FOR CONCRETE CURB & GUTTER INCLUDING THE TRANSVERSE GUTTER SLOPE.  
 WHERE THE TRANSVERSE JOINTS IN THE PAVEMENT ARE REQUIRED TO BE SEALED, THE JOINTS IN THE INTEGRAL CURB AND GUTTER SHALL BE SEALED TO THE FACE OF CURB WITH THE SAME TYPE OF SEALANT. THE COST OF FURNISHING AND INSTALLING THIS SEALANT SHALL BE INCIDENTAL TO THE ITEM CONCRETE CURB AND GUTTER.  
 UNLESS OTHERWISE SHOWN ON THE TYPICAL CROSS SECTIONS, THE BASE AGGREGATE AND COMMON EXCAVATION LIMITS ARE 2'-0" BEHIND THE BACK OF CURBS.  
 ① TIE BARS ARE REQUIRED FOR CURB AND GUTTER TYPES A, G, K, R AND TBT.  
 ② THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 6" MINIMUM GUTTER THICKNESS IS MAINTAINED.  
 ③ USE 8" MINIMUM GUTTER THICKNESS WHEN USED WITH AN ADJACENT CONCRETE TRUCK APRON PLACED BEHIND BACK OF CURB.  
 ④ THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 6" MINIMUM GUTTER THICKNESS IS MAINTAINED.  
 ⑤ THE FACE OF CURB IS 6" FROM THE BACK OF CURB.  
 ⑥ WHEN REVERSE SLOPE GUTTER IS REQUIRED, THE LOCATIONS WILL BE SHOWN ELSEWHERE IN THE PLAN.  
 ⑦ USE 4x GUTTER CROSS SLOPE UNLESS OTHERWISE NOTED IN THE PLANS.  
 ⑧ INCLUDE LONGITUDINAL JOINT AND TIE BARS ALONG LANE EDGE WHEN CONCRETE PANEL WIDTH EXCEEDS THE MAXIMUM WIDTH PER TABLE BELOW. LONGITUDINAL JOINTS ARE NOT ALLOWED WITHIN TRAFFIC LANES AND BIKE LANES. LONGITUDINAL JOINT MAY BE SAWS.

PAVEMENT THICKNESS	MAXIMUM PANEL WIDTH
LESS THAN 10"	12'
10" & ABOVE	15'

**CONCRETE CURB & GUTTER**

**CONCRETE CURB & GUTTER**

TBT & TBT1	24"
20"	22"
30"	28"

**PARTIAL SECTION OF PAVEMENT WITH INTEGRAL CURB & GUTTER**

**REVERSE SLOPE GUTTER**  
 (TYPICAL FOR ALL CURB & GUTTER TYPES)

**CONCRETE CURB & GUTTER**

STATE OF WISCONSIN  
 DEPARTMENT OF TRANSPORTATION

8D1 sheet b: Concrete Curb, Concrete Curb & Gutter and Ties

**GENERAL NOTES**  
 DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.  
 PAVEMENT TIES AND TIE BARS SHALL BE EPOXY COATED IN CONFORMANCE WITH SUBSECTION 505.2.6.2 OF THE STANDARD SPECIFICATIONS.  
 UNLESS OTHERWISE SHOWN ON THE TYPICAL CROSS SECTIONS, THE BASE AGGREGATE AND COMMON EXCAVATION LIMITS ARE 2'-0" BEHIND THE BACK OF CURBS.  
 ① TIE BARS ARE REQUIRED FOR CURB AND GUTTER TYPES A, G, K, R AND TBT.  
 ② THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 6" MINIMUM GUTTER THICKNESS IS MAINTAINED.  
 ③ REFER TO SDD 808 AND SDD 809 FOR ADDITIONAL DRIVEWAY ENTRANCE CURB DETAILS.

**DETAIL OF CURB AND GUTTER AT INLETS**  
 (TYPE H INLET COVER SHOWN)

**END SECTION CURB & GUTTER**

**CONCRETE CURB**

**TYPICAL TIE BAR LOCATION**

**DRIVEWAY ENTRANCE CURB**  
 (WHEN DIRECTED BY THE ENGINEER)

**CONCRETE CURB TIES AND CURB AND GUTTER APPLICATIONS**

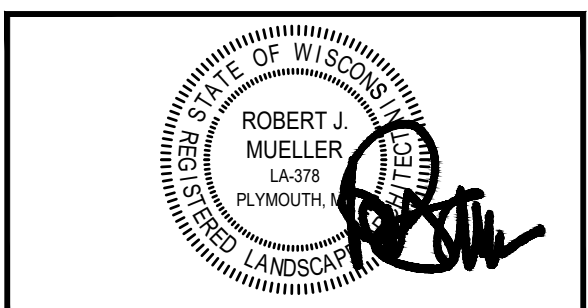
STATE OF WISCONSIN  
 DEPARTMENT OF TRANSPORTATION

APPROVED  
 DATE: June 2017  
 DATE: ROADWAY STANDARDS DEVELOPMENT UNIT SUPERVISOR



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 Plymouth Minnesota 55447  
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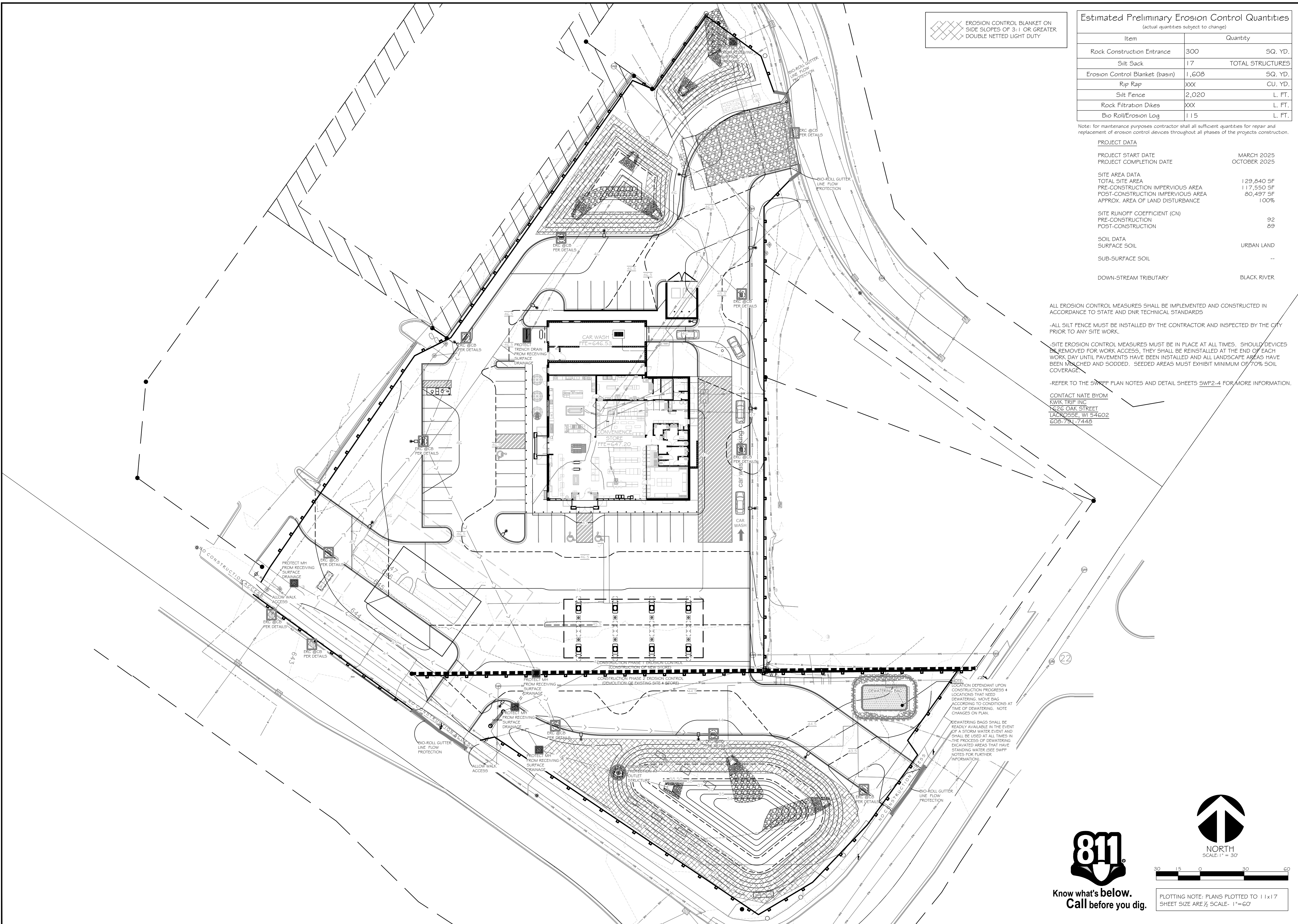


**SITE PLAN DETAILS (WI DOT)**  
**CONVENIENCE STORE 762**  
**LA CROSSE, WISCONSIN**

NO.	DATE	DESCRIPTION
-	04JAN24	SUBMITTAL
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DRAWN BY \_\_\_\_\_  
 SCALE \_\_\_\_\_ GRAPHIC  
 PROJ. NO. \_\_\_\_\_ 23-762  
 DATE \_\_\_\_\_ 2023-12-22  
 SHEET \_\_\_\_\_ **C502**





EROSION CONTROL BLANKET ON SIDE SLOPES OF 3:1 OR GREATER DOUBLE NETTED LIGHT DUTY

**Estimated Preliminary Erosion Control Quantities**  
(actual quantities subject to change)

Item	Quantity	
Rock Construction Entrance	300	SQ. YD.
Silt Sack	17	TOTAL STRUCTURES
Erosion Control Blanket (basin)	1,608	SQ. YD.
Rip Rap	XXX	CU. YD.
Silt Fence	2,020	L. FT.
Rock Filtration Dikes	XXX	L. FT.
Bio Roll/Erosion Log	115	L. FT.

Note: for maintenance purposes contractor shall all sufficient quantities for repair and replacement of erosion control devices throughout all phases of the projects construction.

**PROJECT DATA**

PROJECT START DATE	MARCH 2025
PROJECT COMPLETION DATE	OCTOBER 2025
<b>SITE AREA DATA</b>	
TOTAL SITE AREA	129,840 SF
PRE-CONSTRUCTION IMPERVIOUS AREA	117,550 SF
POST-CONSTRUCTION IMPERVIOUS AREA	80,497 SF
APPROX. AREA OF LAND DISTURBANCE	100%
<b>SITE RUNOFF COEFFICIENT (CN)</b>	
PRE-CONSTRUCTION	92
POST-CONSTRUCTION	89
<b>SOIL DATA</b>	
SURFACE SOIL	URBAN LAND
SUB-SURFACE SOIL	--
DOWN-STREAM TRIBUTARY	BLACK RIVER

ALL EROSION CONTROL MEASURES SHALL BE IMPLEMENTED AND CONSTRUCTED IN ACCORDANCE TO STATE AND DNR TECHNICAL STANDARDS

-ALL SILT FENCE MUST BE INSTALLED BY THE CONTRACTOR AND INSPECTED BY THE CITY PRIOR TO ANY SITE WORK.

-SITE EROSION CONTROL MEASURES MUST BE IN PLACE AT ALL TIMES. SHOULD DEVICES BE REMOVED FOR WORK ACCESS, THEY SHALL BE REINSTALLED AT THE END OF EACH WORK DAY UNTIL PAVEMENTS HAVE BEEN INSTALLED AND ALL LANDSCAPE AREAS HAVE BEEN MULCHED AND SODDED. SEEDED AREAS MUST EXHIBIT MINIMUM OF 70% SOIL COVERAGE.

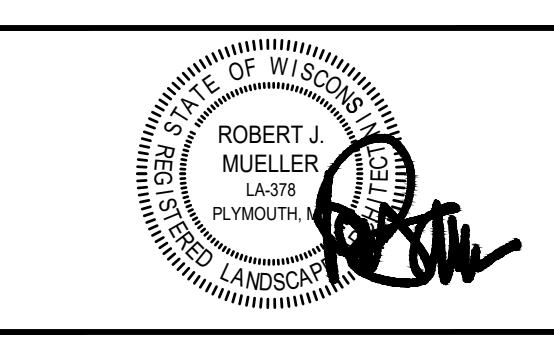
-REFER TO THE SWPPP PLAN NOTES AND DETAIL SHEETS SWP2-4 FOR MORE INFORMATION.

CONTACT NATE BYOM  
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608.791.7448



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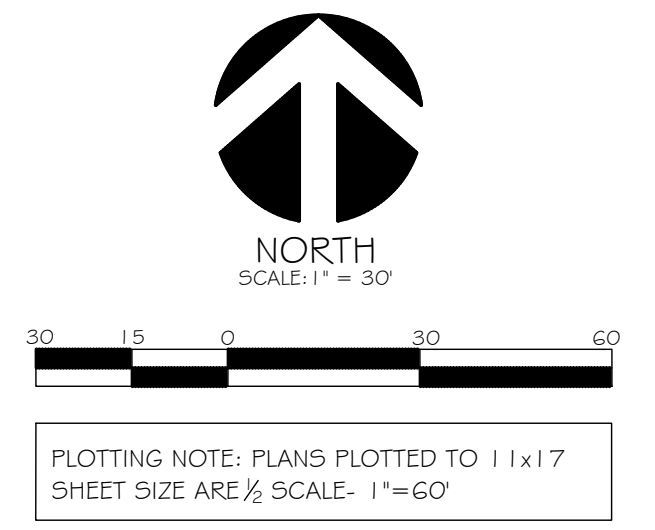
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Plymouth, Minnesota 55447  
763.383.8400  
fax 763.383.8400



**EROSION CONTROL PLAN**  
**CONVENIENCE STORE 762**  
**LACROSSE, WISCONSIN**

NO.	DATE	DESCRIPTION
04	JAN24	SUBMITTAL
17	JAN24	CITY SUBMITTAL

DRAWN BY: GRAPHIC  
SCALE: 23-762  
PROJ. NO.: 2023-12-22  
DATE: 2023-12-22  
SHEET: **C600**



INSITES 23-0225 PM N.D.



GENERAL STORMWATER POLLUTION PREVENTION :

Apply for and obtain all necessary permits for Construction Activity.

Stormwater Pollution Prevention Plan (SWPPP): The SWPPP includes this narrative, Plan Sheets SP3, SP3.1 and SP3.2, and the Stormwater Management Calculations. Keep a copy of the SWPPP, all changes to it, and inspections and maintenance records at the site during the construction. During the construction process the SWPPP will have to be amended for all changes performed by the contractor; the owner shall be aware of the amendments prior to changes made to the SWPPP. All notes, photographs, recorded dates, sketches, references, and diagrams will have to be recorded and made available as part of the SWPPP permit.

Individual(s) preparing the SWPPP for the project, overseeing implementation of the SWPPP, revising and amending the SWPPP, and at least one individual on the project performing installation, inspection, maintenance, and repairs of BMPs must be trained. The training must be done by a local, state, federal agencies; professional organization; or other entities with expertise in erosion prevention, sediment control, or permanent stormwater management.

Responsible Parties: The contractor must designate a person knowledgeable and experienced in the application of erosion prevention and sediment control BMPs who will oversee the implementation of the SWPPP, and the installation, inspection, and maintenance of the erosion prevention and sediment control BMPs before and during construction.

The owner is responsible for identifying who will have responsibility for the long term operation and maintenance of the permanent stormwater management systems.

Owner contact:

CONTACT PERSON
COMPANY NAME
ADDRESS
ADDRESS
PHONE NUMBER

SITE INVESTIGATION, INSTALLATION, IMPLEMENTATION :

- 1. Prior to any work, contractor shall visit the site, document existing conditions as necessary(photos, notes, etc) and note existing drainage patterns on and off site that are related to the project. These notes shall be part of the SWPPP.
2. Install all temporary erosion and sediment control measures including silt fence, rock construction entrance(s), erosion control berms, rock filters, silt sacks, rock earth berms, and sedimentation basins.
3. Prior to beginning site cleaning and grading, protect all storm sewer inlets that receive runoff from disturbed areas.
4. Before beginning construction, install a TEMPORARY ROCK CONSTRUCTION ENTRANCE at each point where vehicles exit the construction site.
5. Avoid entire removal of trees and surface vegetation all at once whenever possible as this limits the amount of site susceptible to erosion.
6. Following initial soil disturbance or re-disturbance, complete permanent or temporary stabilization against erosion due to rain, wind, and running water within 7 calendar days on all disturbed or graded areas.
7. Receiving Waters - It is the contractors responsibility to inspect the site discharge point as well as downstream to the receiving body of water(pond, lake, stream, etc.) on a regular basis including after each storm event and document if any differences or changes in normal in discharge and if material is leaving the construction site.

NOTE: ALL EROSION AND SEDIMENT CONTROL DEVICES WILL BE CHECKED BY THE CONTRACTOR AFTER EACH STORM EVENT AND BE MAINTAINED, OR IMPROVED UPON AFTER EVERY STORM EVENT TO ENSURE ADEQUATE PERFORMANCE.

POLLUTION CONTROL :

- 1. Designate a Concrete Wash-out and truck wash area:
a. When washouts occur on the site, concrete washout water must be contained in a leak-proof containment facility or impermeable liner.
b. On sites where Concrete Washout areas are not feasible as shown on the Detail Sheet, above ground methods and/or off-site methods can be utilized as approved by Owner.
c. Concrete washout may be provided off-site by Concrete Contractor or Concrete Supplier, at an approved washout disposal area.
d. Limit external washing of trucks and other construction vehicles to a defined area preferably before the construction access/exit point.
2. Solid Waste: Properly dispose of collected sediment, asphalt and concrete millings, floating debris, paper, plastic, fabric, construction and demolition debris, and other wastes in compliance with State requirements.
3. Hazardous Materials: Properly dispose of all waste and unused building materials (including garbage debris, cleaning wastes, oil, gasoline, paint, wastewater, toxic materials, and hazardous materials) off-site.
4. Machinery: and mechanized equipment that leaks waste shall have a protective barrier or containment under the device adequate to contain the waste.
5. Emergency spill station: Contractor shall locate and sign an emergency spill station that has necessary containment or cleanup devices for all workers to access.

EROSION CONTROL :

Apply necessary moisture to the construction area and haul roads to prevent the spread of dust.

Contractor shall utilize coarsely ground wood and tree mulches to cover exposed soils. Mulches shall be stored on site to supplement and use in problem areas during all phases of the construction project.

Contractor shall uses star tack or other organic substances in situations to prevent soil from eroding away by wind or rain.

Whenever possible contractor shall grade areas of soil to limit potential of erosion, to include tracking perpendicular to fall line of grades as well as diverting water flows from problematic areas on the site.

Seeding, fiber blankets, poly/tarps or cover mulches, disked mulches and compost can be used to cover temporarily exposed areas from wind and rain. Other methods by the contractor shall be documented in the SWPPP.

SEDIMENT CONTROL :

Inlet Sediment Control Protection Devices:

The following area approved Inlet Sediment Control Devices:

- a. Road Drain Top Slab Model RD 23 (fits rough opening for 2'x3' inlet), Road Drain Top Slab Model RD 27 (fits rough opening for 27" inlet), or Road Drain Top Slab Model CG 3067 (fits Neenah Casting with 35-1/4"x17-3/4" dimensions) manufactured by:
b. Silt Sack manufactured by:
c. InfraSafe Sediment Control Barrier. Install geotextile sock on the outside of the barrier in order to trap additional fines.
d. Ridge Bag Rock Log. Use rock logs only for curb inlets after pavement is in place.
e. Inflatable drain plugs by Interstate Products www.interstateproducts.com or approved equal

Erosion Blanket:

Erosion control blanket shall be installed as directed by the owner's representative in accordance with manufacturer's Installation Guidelines, Staple Pattern Guides, and CAD details. The extent of erosion control blanket shall be as shown on the project drawings. Erosion control blanket shall be orientated in vertical strips and anchored with staples, as identified in the Staple Pattern Guide. Adjacent strips shall be overlapped to allow for installation of a common row of staples that anchor through the stitching of both blankets. Horizontal joints between erosion control blankets shall be overlapped sufficiently with the uphill end on top for a common row of staples so that the staples anchor through the stitching of both blankets.

Riprap:

Place a 450 mm (18 inch) thick layer of nprap onto a 225 mm (9 inch) thick layer of granular filter material at locations indicated on the plan in accordance with WIDOT Specification G0G. Install two layers of medium duty Geotextile fabric (WIDOT HR, section G45.3.7) beneath the granular filter material. At pipe outfalls configure the installation as shown on detail sheet for the size of pipe indicated and extend the geotextile fabric under the culvert apron a minimum of 3 feet. For pipe sizes smaller than 300 mm (12 inch) diameter, the minimum quantity of nprap and filter blanket shall be no less than that required for 300 mm (12 inch) diameter pipes.

Silt Fence:

Install and maintain per WDNR Conservation Practice Standard I 056.

Install silt fence along the contour (on a level horizontal plane) with the ends turned up (J-hooks) in order to help pond water behind the fence. Install the silt fence on the uphill side of the support posts. Provide a post spacing of 1.2 m (4 feet) or less. Drive posts at least 0.6 m (2 feet) into the ground. Anchor the silt fence fabric in a trench at least 152 mm (6 inches) deep and 152 mm (6 inches) wide dug on the upslope side of the support posts. Lay the fabric in the trench and then backfill and compact with a vibratory plate compactor. Make any splices in the fabric at a fence post. At splices, overlap the fabric at least 152 mm (6 inches), fold it over, and securely fasten it to the fence post. Silt fence supporting posts shall be 51 mm (2 inch) square or larger hardwood, pine, or standard T- or U-section steel posts. T- or U-section steel posts shall weigh not less than 1.8602 kg per meter (1.25 lb per lineal foot). Posts shall have a minimum length of 1524 mm (5 feet). Posts shall have projections to facilitate fastening the fabric and prevent slippage. Geotextile fabric shall meet the requirements of WIDOT Standard Specification G2B for preassembled silt fence, furnished in a continuous roll in order to avoid splices. Geotextile fabric shall be uniform in texture and appearance and have no defects, flaws, or tears. The fabric shall contain sufficient ultraviolet (UV) ray inhibitor and stabilizers to provide a minimum two-year service life outdoors. Fabric color shall be international orange. In high traffic areas contractor shall reinforce silt fence with wire fencing and metal posts. Extreme circumstances will require temporary concrete median sections to support matenal backing of stock piled soil or filled earth.

Install silt fence, or other effective sediment controls, around all temporary soil stockpiles. Locate soil or dirt stockpiles containing more than 1 0 cubic yards of material such that the downslope drainage length is no less than 8 m (25 feet) from the toes of the pile to a roadway or drainage channel. If remaining for more than seven days, stabilize the stockpiles by mulching, vegetative cover, tarps, or other means. Control erosion from all stockpiles by placing silt fence barriers around the piles. During street repair, cover construction soil or dirt stockpiles located closer than 8 m (25 feet) to a roadway or drainage channel with tarps, and protect storm sewer inlets with silt sacks or staked silt fence. Do not stock pile soil or material near catch basins or drainage ways.

Stone Tracking Pad (Temporary Rock Construction Entrance):

Install and maintain per WDNR Conservation Practice Standard I 057. Use 3inch to 6" diameter rock. Place the aggregate in a layer at least 300 mm (12 inches) thick across the entire width of the entrance. Extend the rock entrance at least 1.5 m (50 feet) into the construction zone. Use a WIDOT Type R permeable geotextile fabric material beneath the aggregate in order to prevent migration of soil into the rock from below. Maintain the entrance in a condition that will prevent tracking or flowing of sediment onto paved roadways. Provide periodic top dressing with additional stone as required. Close entrances not protected by temporary rock construction entrances to all construction traffic.

Temporary Sediment Basins:

In the construction process or if noted on the plan the contractor shall construct temporary sediment basin(s). As per general rule the sediment basin shall be sized appropriately to a capacity related to the drainage area on a ratio of 3,600 cubic feet per acre of drainage zone entering the basin. Basins shall be inspected after every rainfall event, material removed and stabilized. If changes to the basin are made, document and amend the SWPPP plan.

Dewatering:

If dewatering is required and sump pumps are used, all pumped water must be discharged through an erosion control facility (temporary sedimentation basin, grit chamber, sand filter, upflow chamber, hydro-cyclone, swirl concentrator, dewatering bag or other appropriate facility) prior to leaving the construction site. Proper energy dissipation must be provided at the outlet of the pump system. Discharge clear water only. To achieve better separation of the material suspended in the water a biodegradable not toxic flocculant agent may be required.

For more information and materials go to by Interstate Products www.interstateproducts.com

INSPECTIONS-MAINTENANCE-DAILY RECORD-AMEND THE SWPP PLAN

- 1. Contractor shall inspect all erosion and sediment control devices, stabilized areas, and infiltration areas on a daily basis until land-disturbing activity has ceased. Thereafter, inspect at least on a weekly basis until vegetative cover is established.
2. All inspections and maintenance activities must be recorded in writing DAILY in a detailed record(photos, sketches, etc, and kept with the SWPPP by the contractor.
3. Contractor shall remove all soils and sediments tracked or otherwise deposited onto adjacent property, pavement areas, sidewalks, streets, and alleys. Removal shall be on a daily basis throughout the duration of the construction and/or as directed by the City.
4. All soil hauled from the site shall be accounted for and documented in the SWPPP by the contractor. Its final destination and how the soil has been stored and stabilized.
5. Contractor shall maintain all temporary erosion and sediment control devices in place until the contributing drainage area has been stabilized (hard-surfaced areas paved and vegetation established in greenspace).
6. Contractor shall clean sedimentation basins, storm sewer catch basins, ditches, and other drainage facilities as required in order to maintain their effectiveness.
7. Contractor shall inspect infiltration areas to ensure that no sediment from ongoing construction activities is accumulating.
8. Every vehicle shall not track material off-site. Clean the wheels of construction vehicles in order to remove soils before the vehicles leave the construction site.
9. Contractor shall reinforce erosion control facilities in areas where concentrated flows occur (such as swales, ditches, and areas in front of culverts and catch basins) by backing them with snow fence, wire mesh, or stiff plastic mesh reinforcement until paving and turf establishment operations have been completed.

GENERAL SOIL STABILIZATION :

(SEE LANDSCAPE PLAN FOR MORE INFORMATION)

Establishment of lawn, prairie/wildflower and/or plant bed areas will be noted on the landscape plan

to ensure stabilization of soils, restaking of sod where applicable, proper watering and mulch maintenance will be required. Inspect seeded or sodded areas on a timely day-to-day basis. In the event of a seeding failure, reseed and remulch the areas where the original seed has failed to grow and perform additional watering as necessary at no additional cost to the Owner. Special maintenance provisions for wild and prairie grass seeded areas as noted in the landscape plan. Promptly replace all sod that dries out to the point where it is presumed dead and all sod that has been damaged, displaced, weakened, or heavily infested with weeds at no additional cost to the Owner.

In areas to be temporarily seeded, use introduced seed mixture equivalent to WIDOT #10 or #20. Apply seed mixture per WIDOT G30.3.3.5. Incorporate a fertilizer (slow release type with 10 week residual) consisting of 23-0-30 (%N-P-K) into the soil at an application rate of 224 kg per hectare (200 lbs per acre) by diskng prior to seeding. In problematic areas it may be necessary to use a low phosphorus organic fertilizer in cases where seeds may not germinate. If this is the case, seed and fertilizer shall be disked into the surface and mulched properly to ensure germination and uptake of the Phosphorus by the seed.

To ensure adequate germination of the seed the work will be performed as follows:

Spring- from April 1 through May 15.

Fall- from August 15 to September 20.

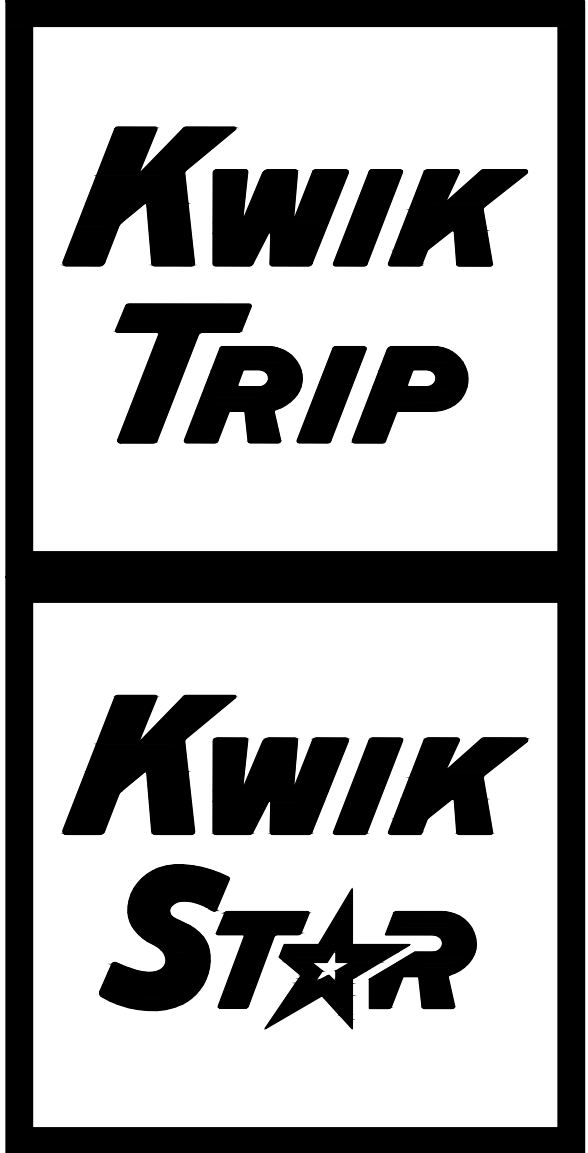
After September 20, wait until October 30 to perform dormant seeding. Dormant seeding will only be allowed if the maximum soil temperature at a depth of 25 mm (1 inch) does not exceed 4.44 degrees C (40 degrees F) in order to prevent germination.

In seeded areas with slopes steeper than 3:1 and lengths less than 15 meters (50 feet), install biodegradable erosion control blankets uniformly over the soil surface by hand within 24 hours after seeding in accordance with manufacturers recommendations. Use WIDOT Urban Type B or owner approved equal.

In areas where irrigation is to be installed, contractor shall work in zones to finish grade and install the system in zones. Note- Erosion control measures shall remain in place until soils have been stabilized with sod or seeded areas that exhibit minimum of 70% lawn vegetative coverage. If silt fence has to be removed to install the irrigation system, it shall be reinstalled at the end of each work day or use bio rolls to provide protection during the installation process until lawn areas have sod and/or plant beds are mulched.

In areas to be sodded, silt fence can be removed short term for working, but exposed soil areas shall be sodded or erosion control measures shall be reinstalled at the end of each work day.

NOTE: THE PROJECT'S LANDSCAPE PLAN IS PART OF THE SWPPP FOR SOIL STABILIZATION. REFERENCES SHALL BE MADE TO THE APPROVED LANDSCAPE PLAN. AMENDMENTS TO THE LANDSCAPE PLAN SHALL BE APPROVED BY THE OWNER AND DOCUMENTED AS PART OF THE SWPPP



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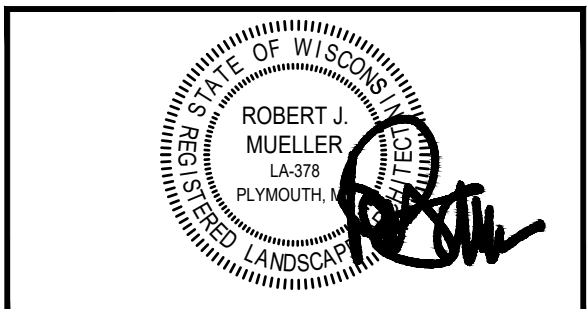


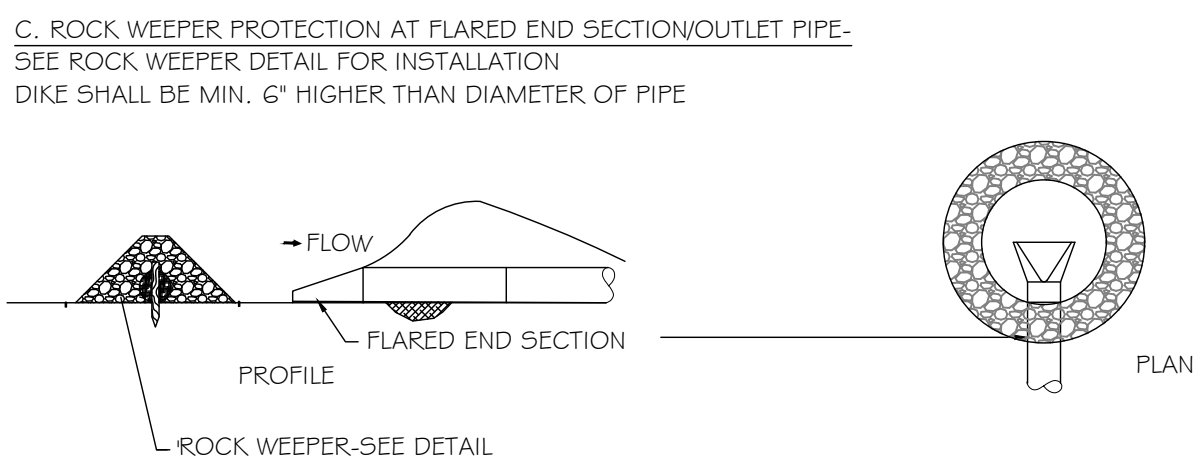
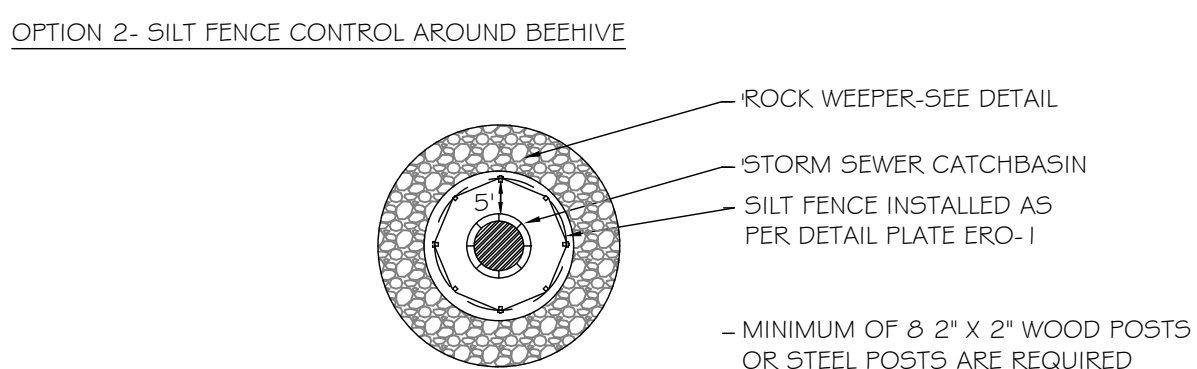
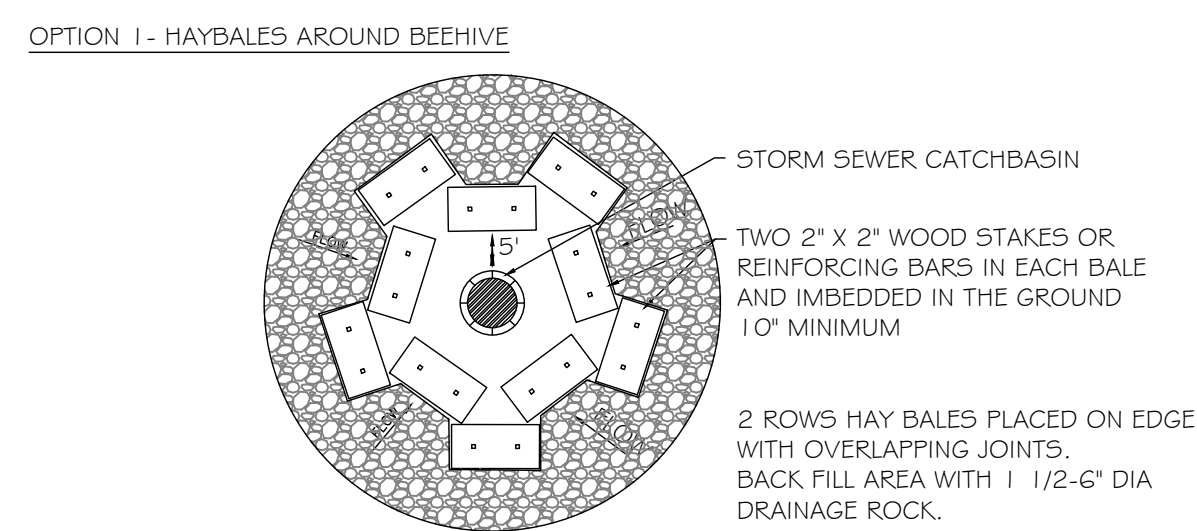
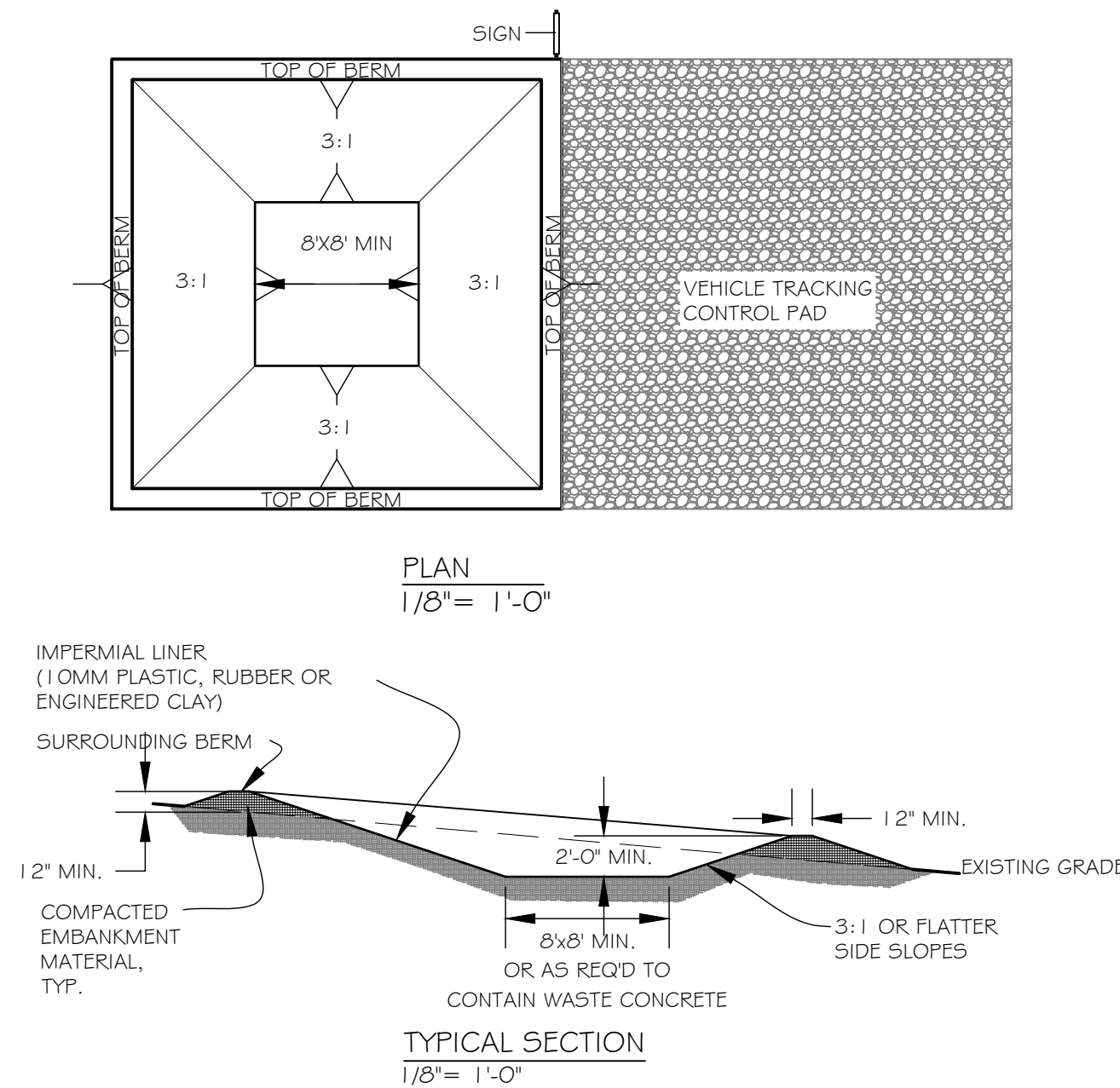
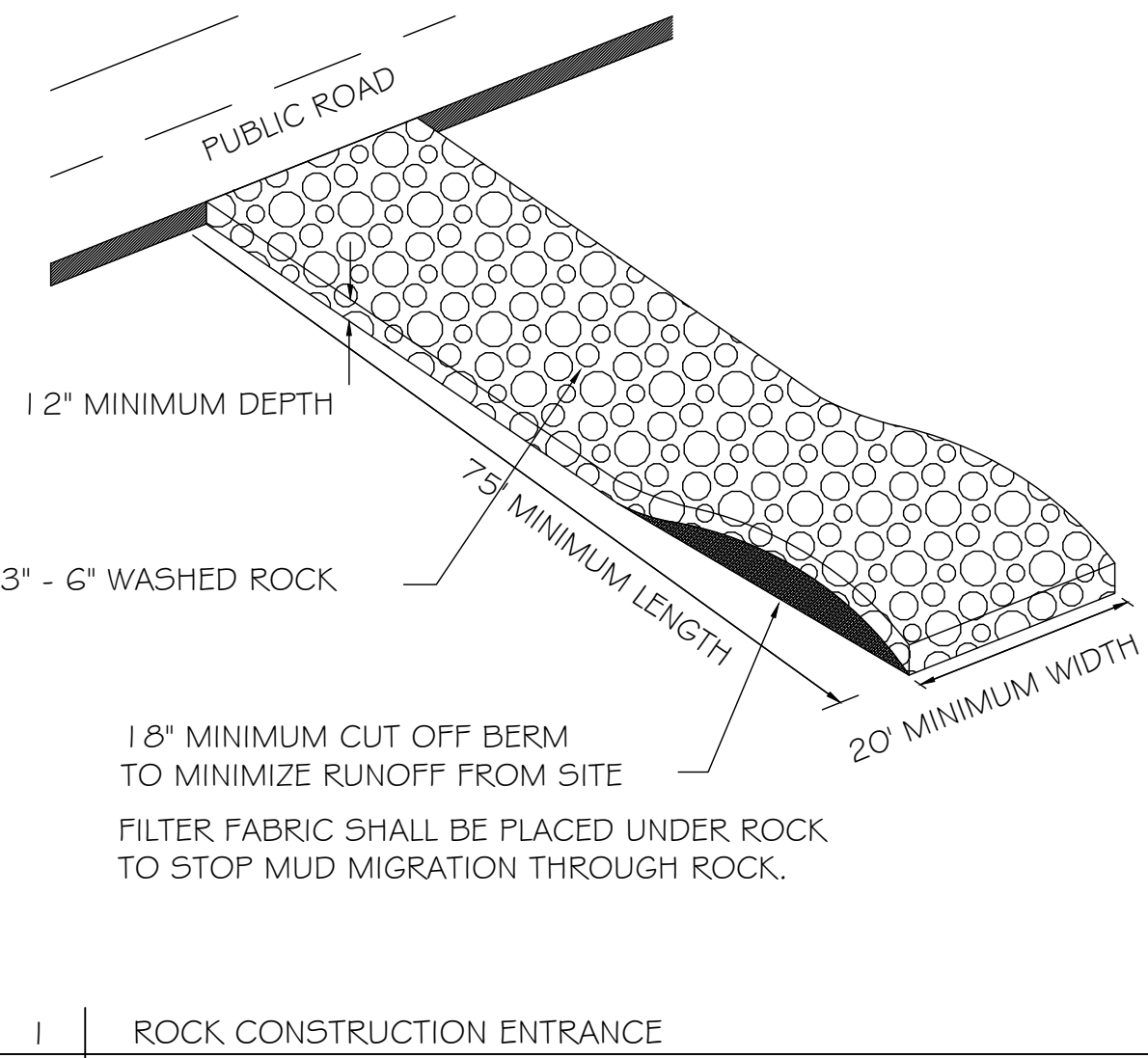
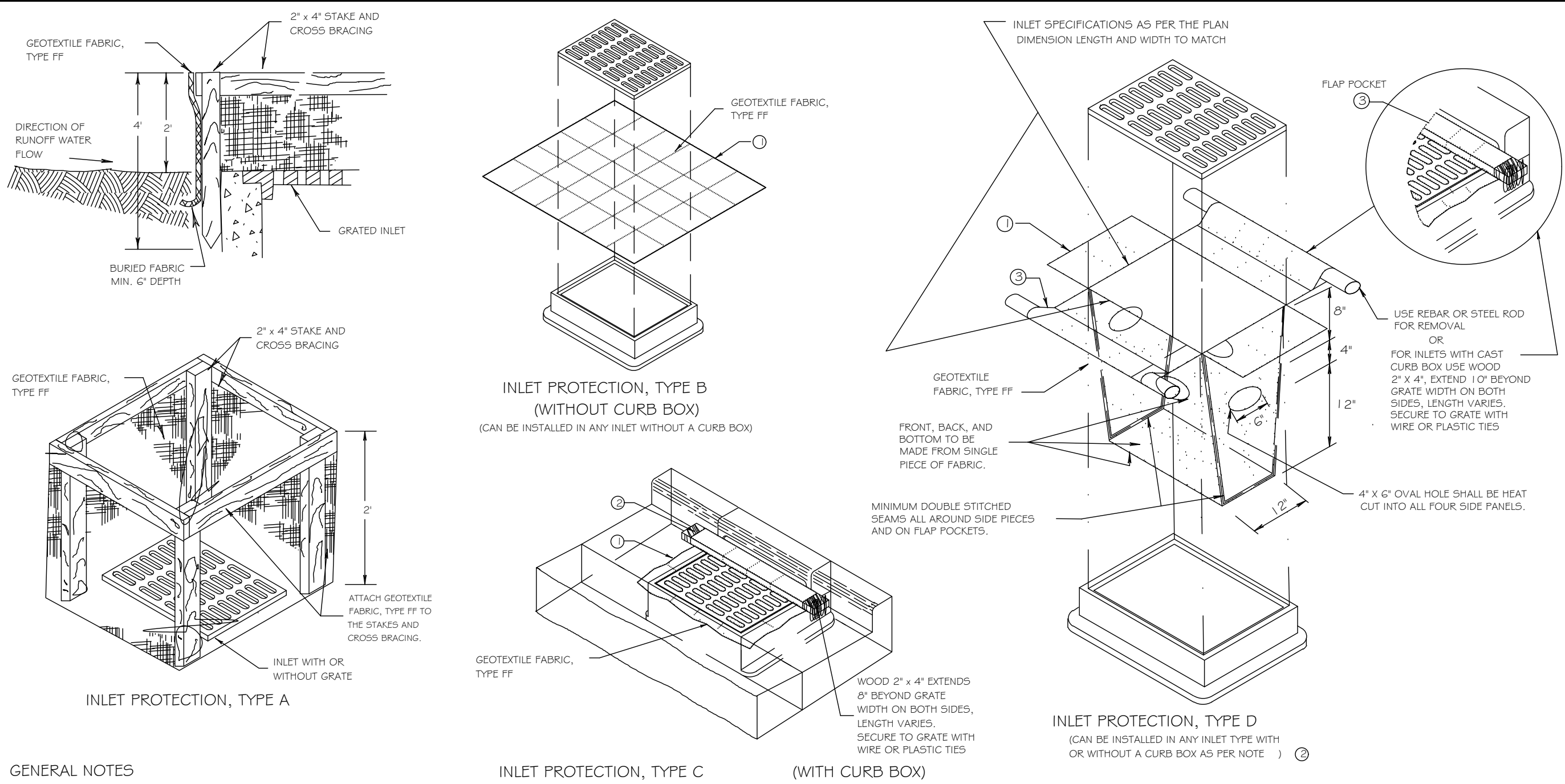
Table with 3 columns: NO., DATE, DESCRIPTION. Includes entries for 04JAN24 SUBMITTAL and 17JAN24 CITY SUBMITTAL. Also includes a vertical title 'EROSION CONTROL NOTES' and 'CONVENIENCE STORE 762' and a signature line 'LA CROSSE, WISCONSIN'.

INSITES 23-028 PM N. 3



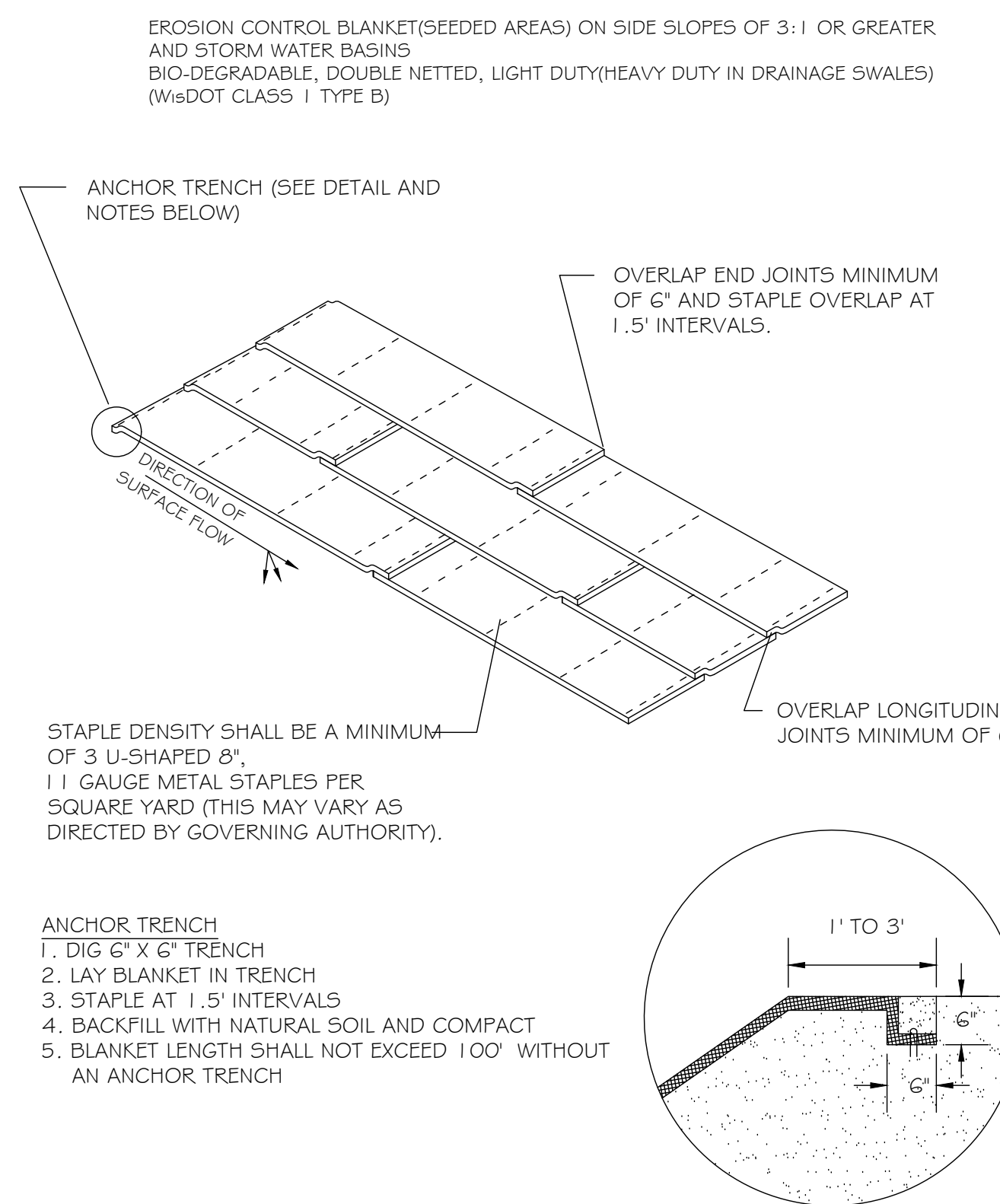
ALL EROSION CONTROL MEASURES TO BE INSTALLED AND MAINTAINED PER WDNR STANDARDS

<http://dnr.wi.gov/org/water/wm/nps/stormwater/techstds.htm>

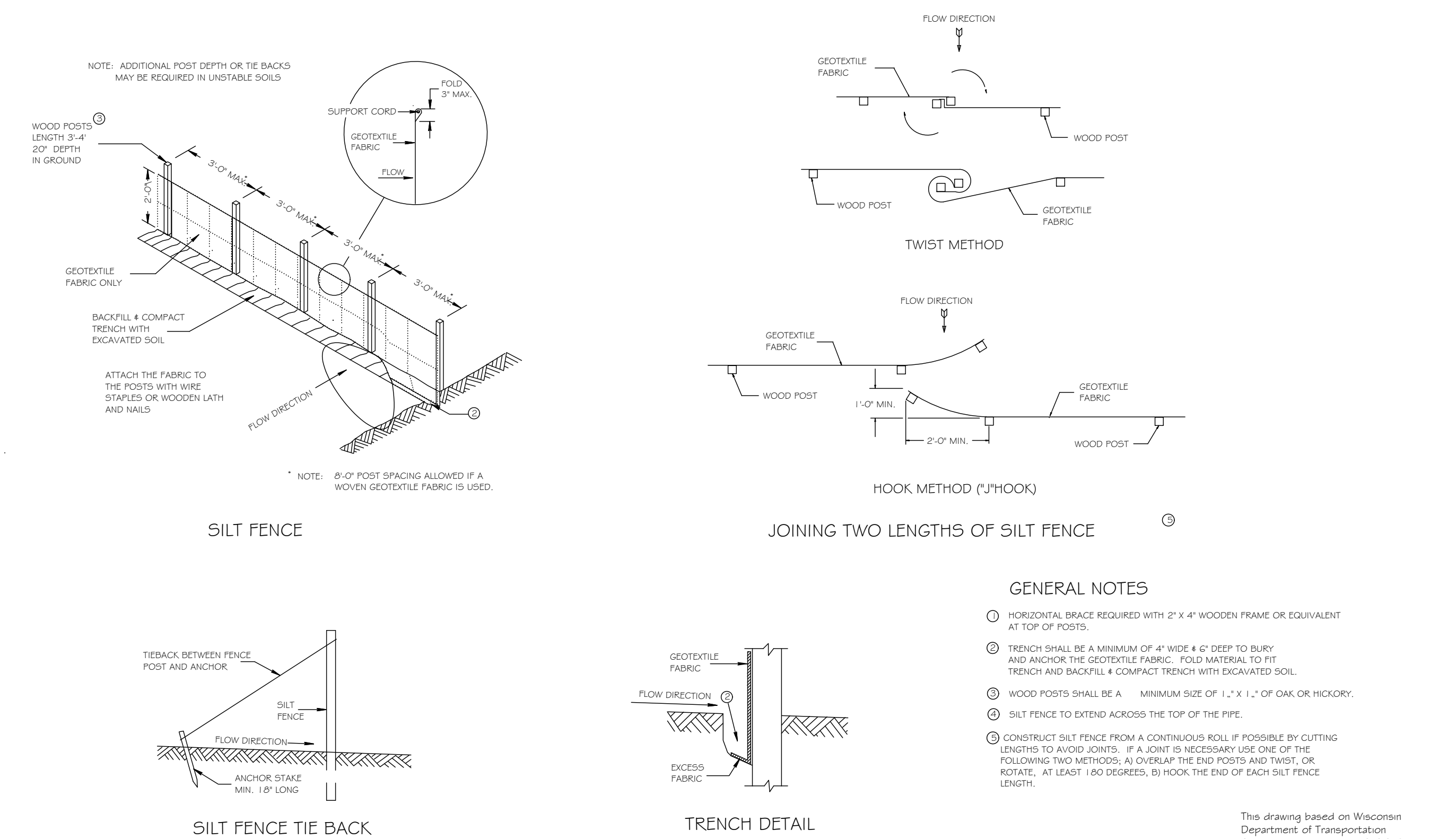


3 BEE-HIVE CASTING AND FLARED END SECTION EROSION/SEDIMENT CONTROL

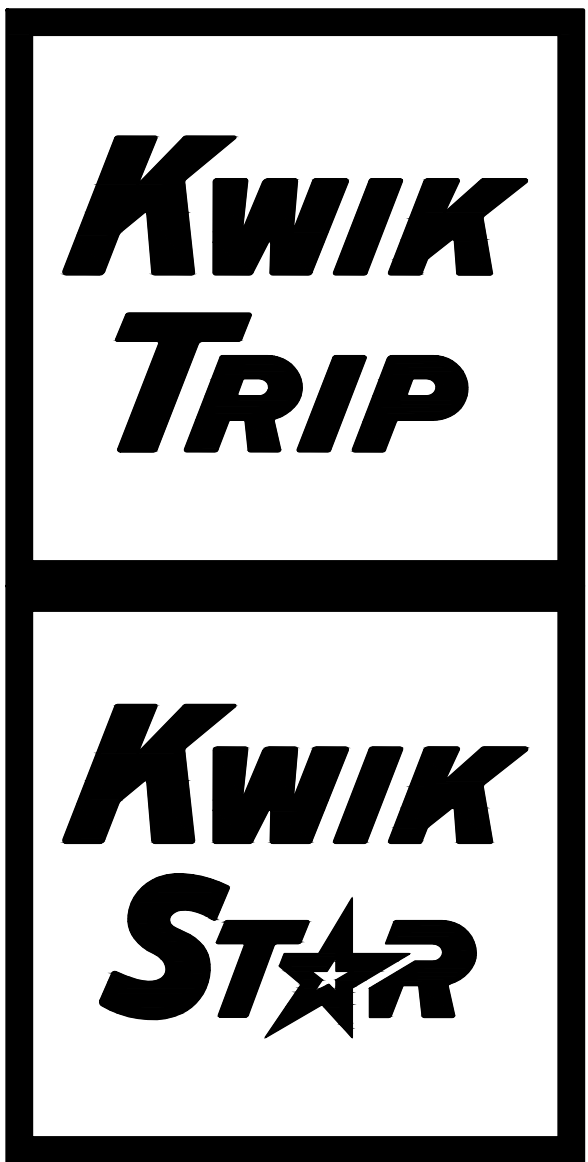
2 CONCRETE WASHOUT AREA



4 EROSION CONTROL BLANKET INSTALLATION

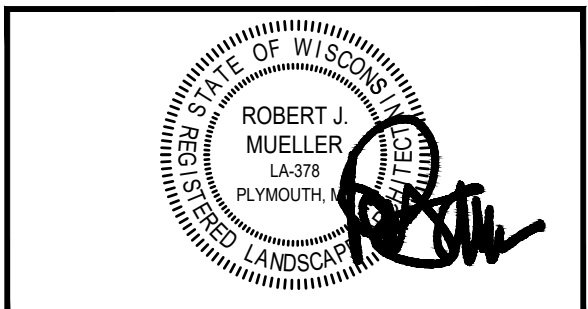


SILT FENCE



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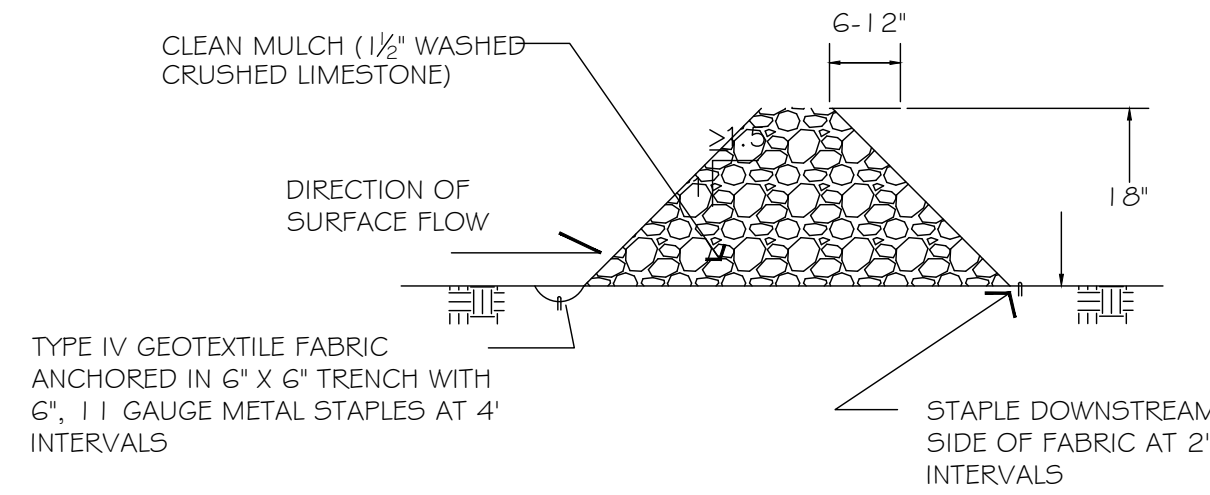


<b>EROSION CONTROL DETAILS</b>	
<b>CONVENIENCE STORE 762</b>	
<b>LACROSSE, WISCONSIN</b>	
NO.	DATE DESCRIPTION
-	04JAN24 SUBMITTAL
-	17JAN24 CITY SUBMITTAL
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DATE	2023-12-22
SHEET	
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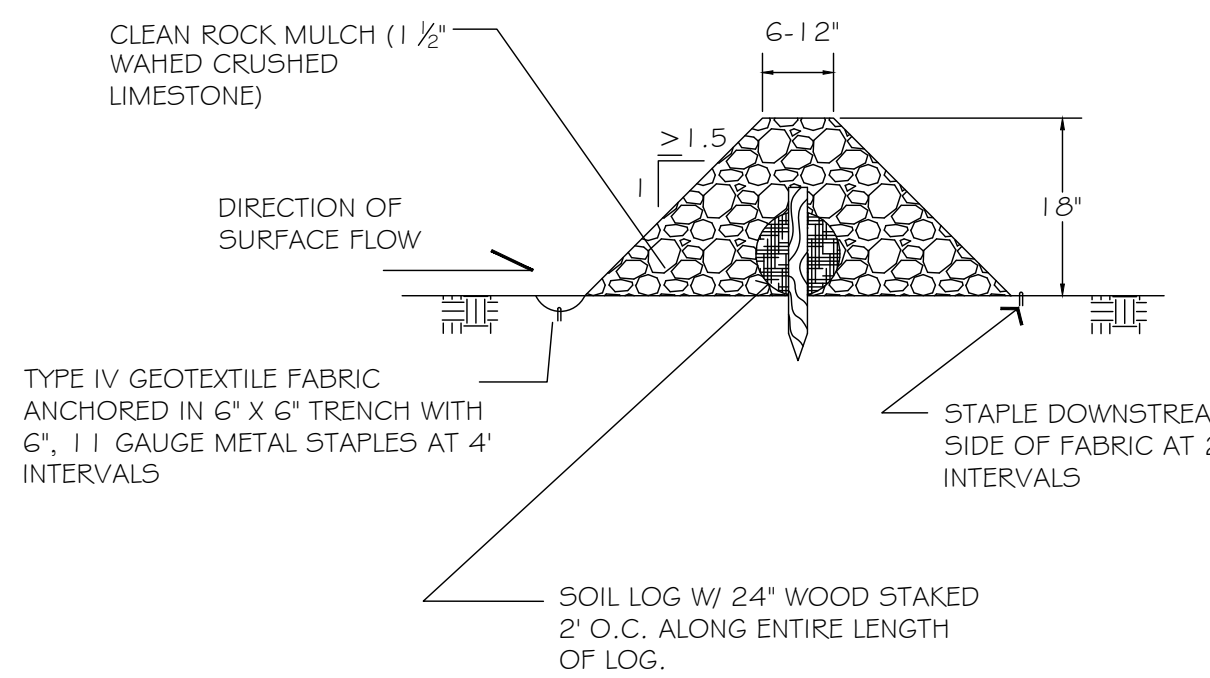
INSITES 23-0228 PM N.B.



I. ROCK WEEPER @ MINIMAL WATER FLOWS



II. BIO WEEPER @ CONCENTRATED FLOWS



5 | DITCH CHECKS, ROCK WEEPERS, & ROCK BIO WEEPERS  
EROSION CONTROL

Channel Erosion Mat  
(1055)

Wisconsin Department of Natural Resources  
Conservation Practice Standard

I. Definition

A protective soil cover of straw, wood, coconut fiber or other suitable plant residue, or plastic fibers formed into a mat, usually with a plastic or biodegradable mesh on one or both sides. Erosion mats are rolled products available in many varieties and a combination of materials and with varying life spans.

II. Purpose

The purpose of this practice is to protect the channel from erosion or act as turf reinforcement during and after the establishment of grass or other vegetation in a channel. This practice applies to both Erosion Control Revetment Mats (ECRM) and Turf-Reinforcement Mats (TRM).

III. Conditions Where Practice Applies

This standard applies where runoff channelsizes in intermittent flow and vegetation is to be established. Some products may have limited applicability in projects adjacent to navigable waters.

IV. Federal, State, and Local Laws

Users of this standard shall be aware of applicable federal, state, and local laws, rules, regulations, or permit requirements governing the use and placement of erosion mat. This standard does not contain the text of federal, state, or local laws.

V. Criteria

This section establishes the minimum standards for design, installation and performance requirements. To complete the shear calculations, a 2 year, 24 hour storm event shall be used to calculate depth of flows for an ECRM. For using a TRM, use the depth of flow corresponding to the maximum design capacity of the channel.

Only mats listed in the Wisconsin Department of Transportation (WisDOT) Erosion Control Product Acceptability List (PAL) will be accepted for use in this standard.

To differentiate applications WisDOT organizes erosion mats into three classes of mats, which are further broken down into various Types.

**Class I.** A short-term duration (minimum of 6 months), light duty, organic ECRM with plastic or biodegradable setting.

**Class II.** A long-term duration (three years or greater), organic ECRM.

**Class III.** A permanent 100% synthetic ECRM or TRM. Class I, Type B erosion mat or Class II, Type B or C erosion mat must be placed over a soil filled TRM.

for use in environmentally sensitive areas where plastic netting is inappropriate.

**Class III.** A permanent 100% synthetic ECRM or TRM. Class I, Type B erosion mat or Class II, Type B or C erosion mat must be placed over a soil filled TRM.

**Type A** - An ECRM for use in channels where the calculated (design) shear stress of 2.0 lbs/ft<sup>2</sup> or less.

**Type B** - A TRM for use in channels where the calculated (design) shear stress of 2.0 lbs/ft<sup>2</sup> or less.

**Type C** - A TRM for use in channels where the calculated (design) shear stress of 3.5 lbs/ft<sup>2</sup> or less.

**Type D** - A TRM for use in channels where the calculated (design) shear stress of 5.0 lbs/ft<sup>2</sup> or less.

D. Installation

1. ECRM shall be installed after all topsoiling, fertilizing, liming, and seeding is complete.

2. Erosion mats shall extend for whichever is greater: upslope one-foot minimum vertically from the ditch bottom or 6 inches higher than the design flow depth.

3. The mat shall be in firm and continuous contact with the soil. It shall be anchored, overlapped, staked and unanchored per the manufacturer's recommendations.

4. TRM shall be installed in conjunction with the topsoiling operation and shall be followed by ECRM installation.

5. At time of installation, document the manufacturer and mat type by saving material labels and manufacturer's installation instructions. Retain this documentation until the site is stabilized.

VI. Considerations

A. Erosion mats shall be selected so that they last long enough for the grass or other vegetation to become densely established.

B. Consider using Class II, Type C mats adjacent to waterways where trapping small animals is to be avoided.

C. Class III TRM may be appropriate as a replacement for riprap in a channel liner. Check the shear stress criteria for the channel to determine mat applicability.

D. Once a gully has formed in a channel, it is difficult to stabilize due to loss of soil structure. Even when the gully is filled with topsoil and seeded, the soil has a tendency to dislodge in the same pattern. If gully formation continues to be a problem the design should be reevaluated, including other mat classes or riprap.

E. It may be difficult to establish permanent vegetation and adequate erosion protection in a channel with continuous flow. Consider riprap or planting wetland species with an ECRM.

F. Documentation of materials used, monitoring logs, project diary, and weekly inspection forms including erosion and stormwater management plans, should be provided to the authority charged with long term maintenance of the site.

G. Channel cross sections may be parabolic, v-shaped or trapezoidal. The use of "V" channels is generally discouraged due to erosion problems experienced.

H. To help determine the appropriate channel liner, designers can refer to the design matrix in the back of the WisDOT PAL. However, for channels not conforming to the typical section shown in the channel matrix or having a depth of flow greater than 6 inches (150 mm), the designer will need to design

for an appropriate channel liner. One way to do this is to use the "tractive force" method presented in FHWA's Hydraulic Engineering Circular (HEC) No. 15. This method requires that the calculated maximum shear stress of a channel is not to exceed the permissible shear stress of the channel liner. To use this method, permissible shear stress values are listed next to each device listed in the channel matrix.

VII. Plans and Specifications

A. Plans and specifications for installing erosion mat shall be in keeping with this standard and shall describe the requirements for applying the practice to achieve its intended purpose. The plans and specifications shall address the following:

1. Location of erosion mat

2. Installation sequence

3. Material specifications conforming to standard

B. All plans, standard detail drawings, or specifications shall include schedule for installation, inspection, and maintenance. The responsible party shall be identified.

VIII. Operation and Maintenance

A. Erosion mats shall at a minimum be inspected weekly and within 24 hours after every precipitation event that produces 0.5 inches of rain or more during a 24-hour period.

B. If there are signs of rilling under the mat, install more staples or more frequent anchoring trenches. If rilling becomes severe enough to prevent establishment of vegetation, remove the section of mat where the damage has occurred. Fill the eroded area with topsoil, compact, reseed and replace the section of mat, trenching and overlapping ends per manufacturer's recommendations. Additional staking is recommended near where rilling was filled.

C. If the reinforcing plastic netting has separated from the mat, remove the plastic and if necessary replace the mat.

D. Maintenance shall be completed as soon as possible with consideration to site conditions.

IX. References

WisDOT "Erosion Control Product Acceptability List" is available online at <http://www.dot.wisconsin.gov/business/engrsvr/pal.htm>.

X. Definitions

**Channel Erosion:** The deepening and widening of a channel due to soil loss caused by flowing water. As rills become larger and flows begin to concentrate, soil detachment occurs primarily as a result of shear.

**Erosion Control Revetment Mats (ECRM) (I):** Erosion control revetment mats are designed to be placed on top of soil.

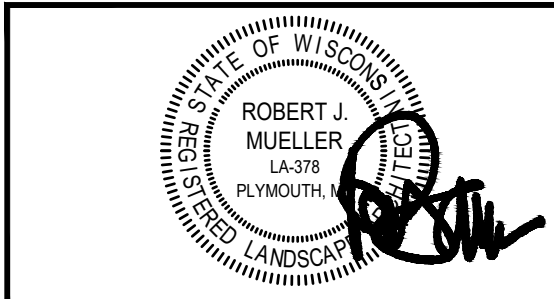
**Turf-Reinforcement Mats (TRM) (II):** Turf-reinforcement mats are permanent devices constructed from various types of synthetic materials and buried below the surface to help stabilize the soil. TRMs must be used in conjunction with an ECRM or an approved soil stabilizer Type A (as classified in the WisDOT PAL).

**Kwik TRIP**

**Kwik STAR**

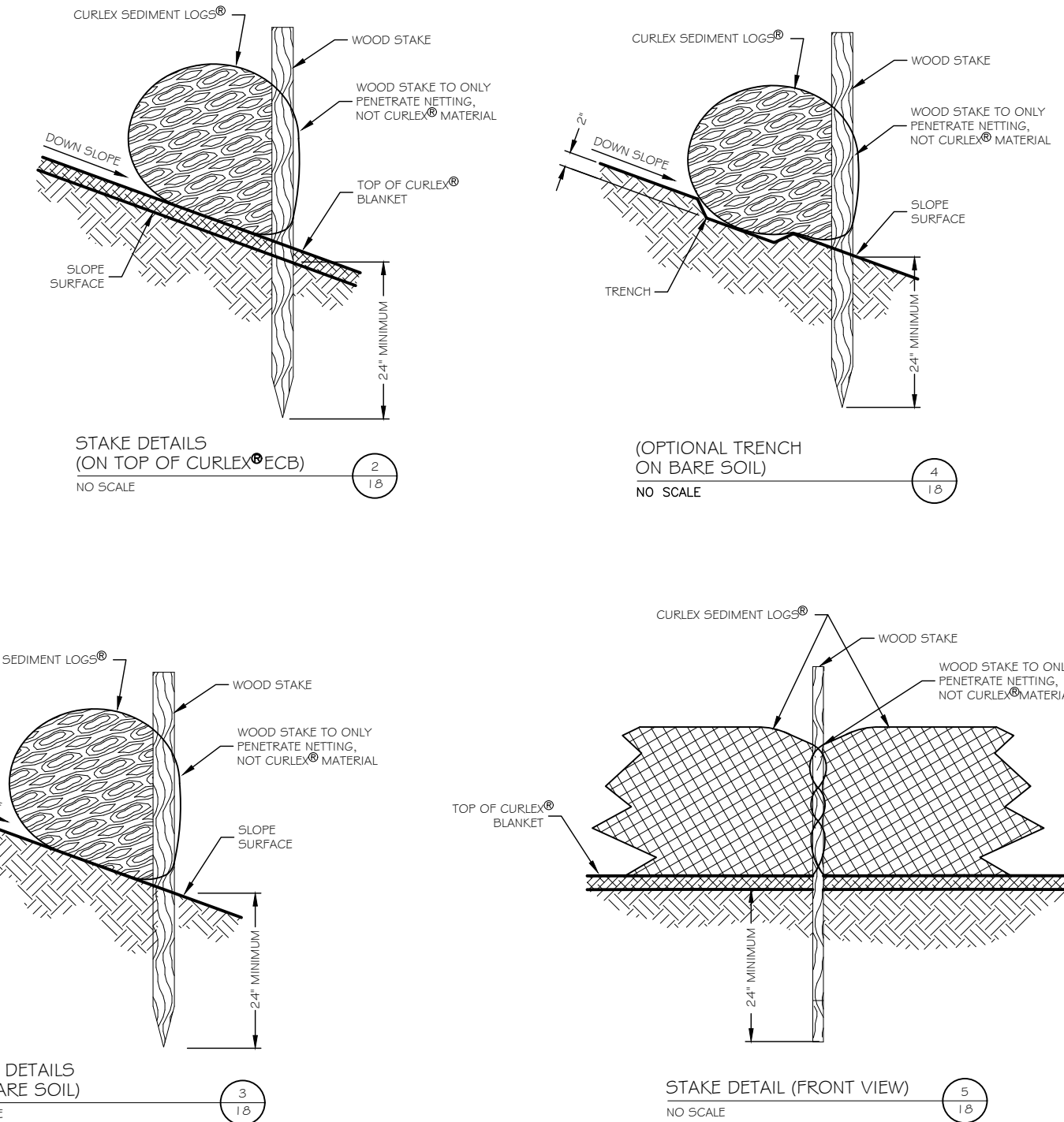
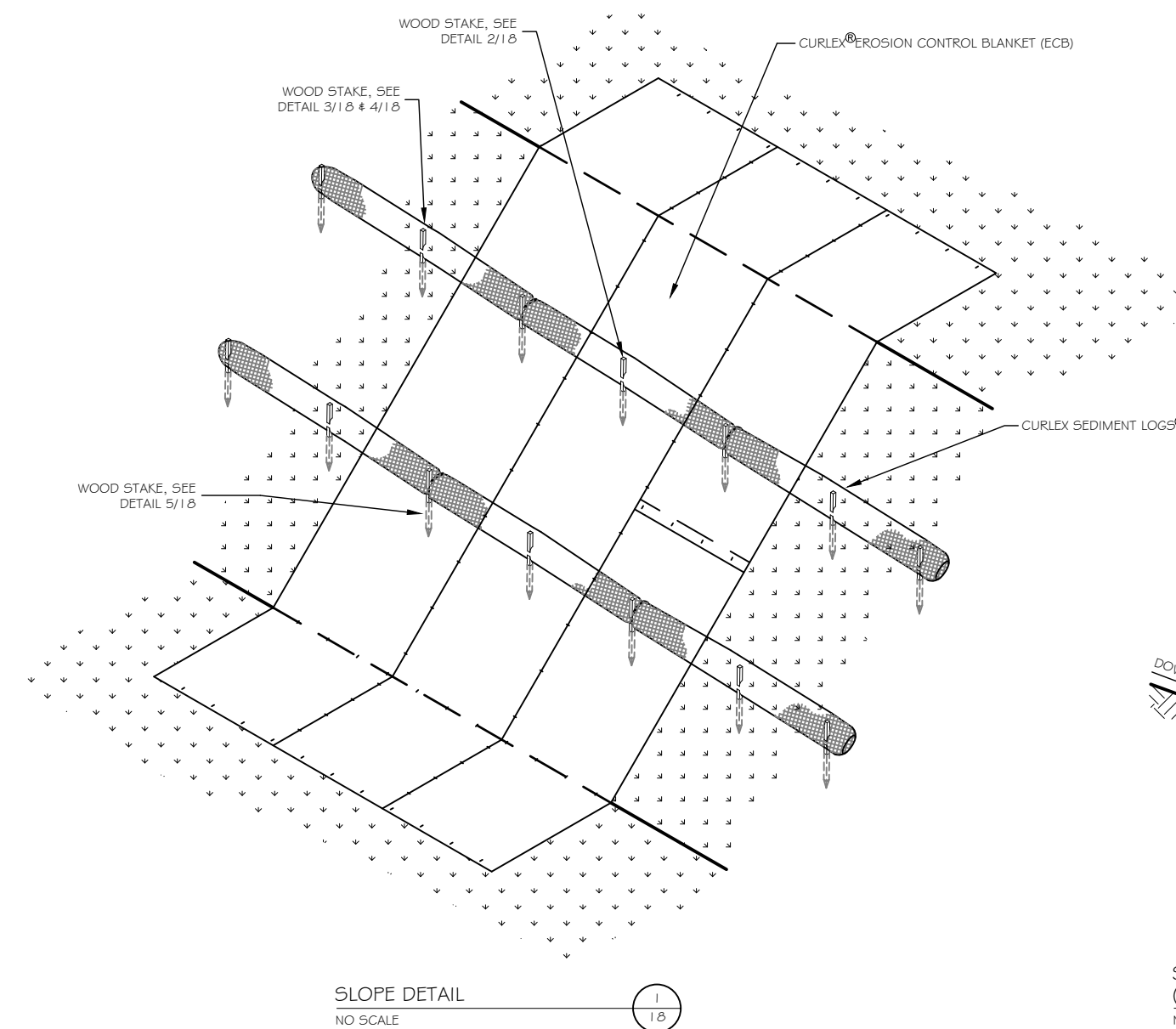
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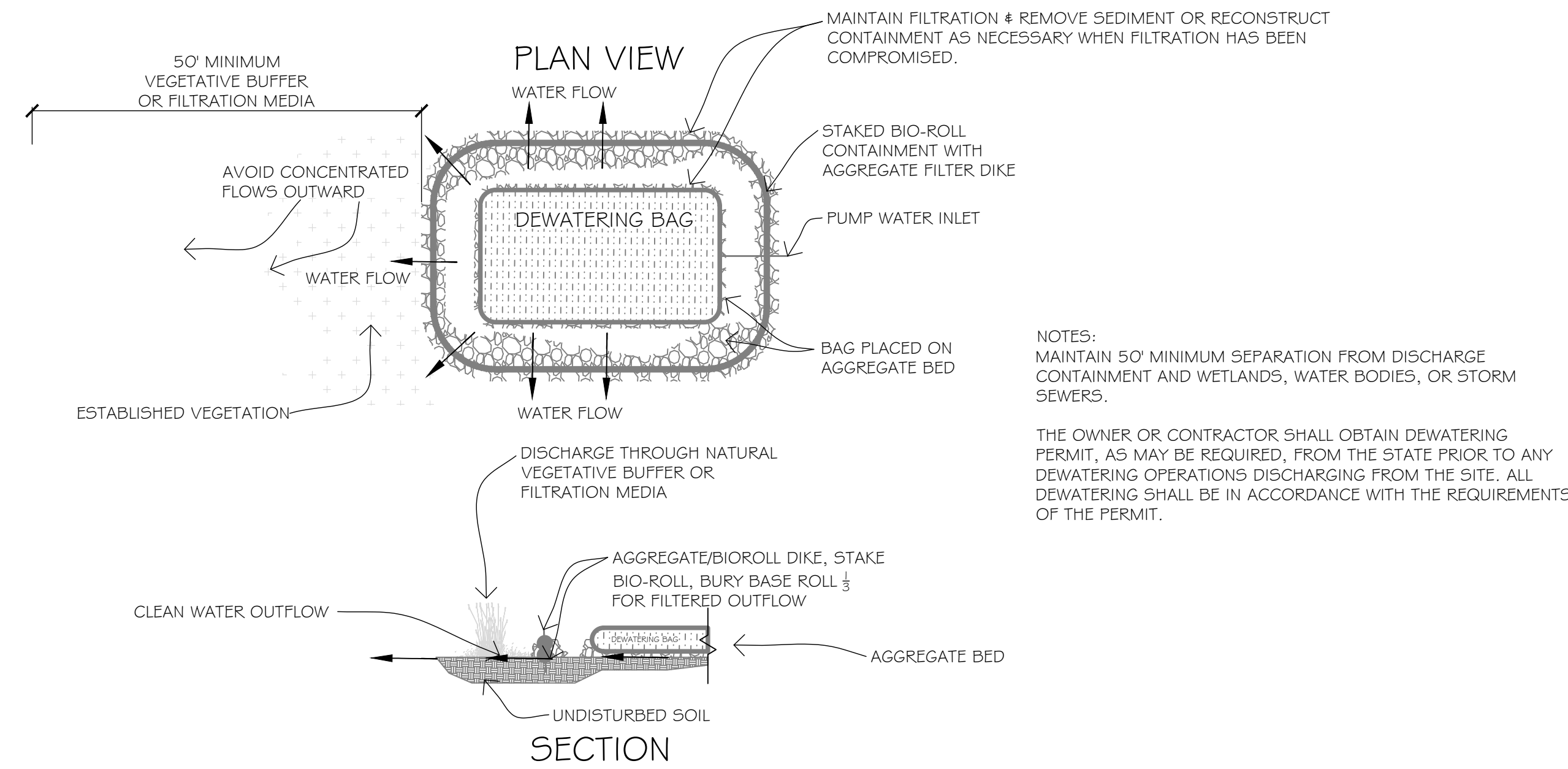


NOTE: SEDIMENT LOGS SHALL BE "CURLEX NETFREE" BY AMERICAN EXCELSIOR COMPANY

[www.americanexcelsior.com/erosioncontrol/](http://www.americanexcelsior.com/erosioncontrol/)  
OR APPROVED EQUAL



6 | BIO ROLL INSTALLATION ("LOG WEEPERS")  
EROSION CONTROL



7 | DEWATERING BAG INSTALLATION, FOR DISCHARGING ERODED, SUSPENDED PARTICLES IN WATER  
NOT TO SCALE

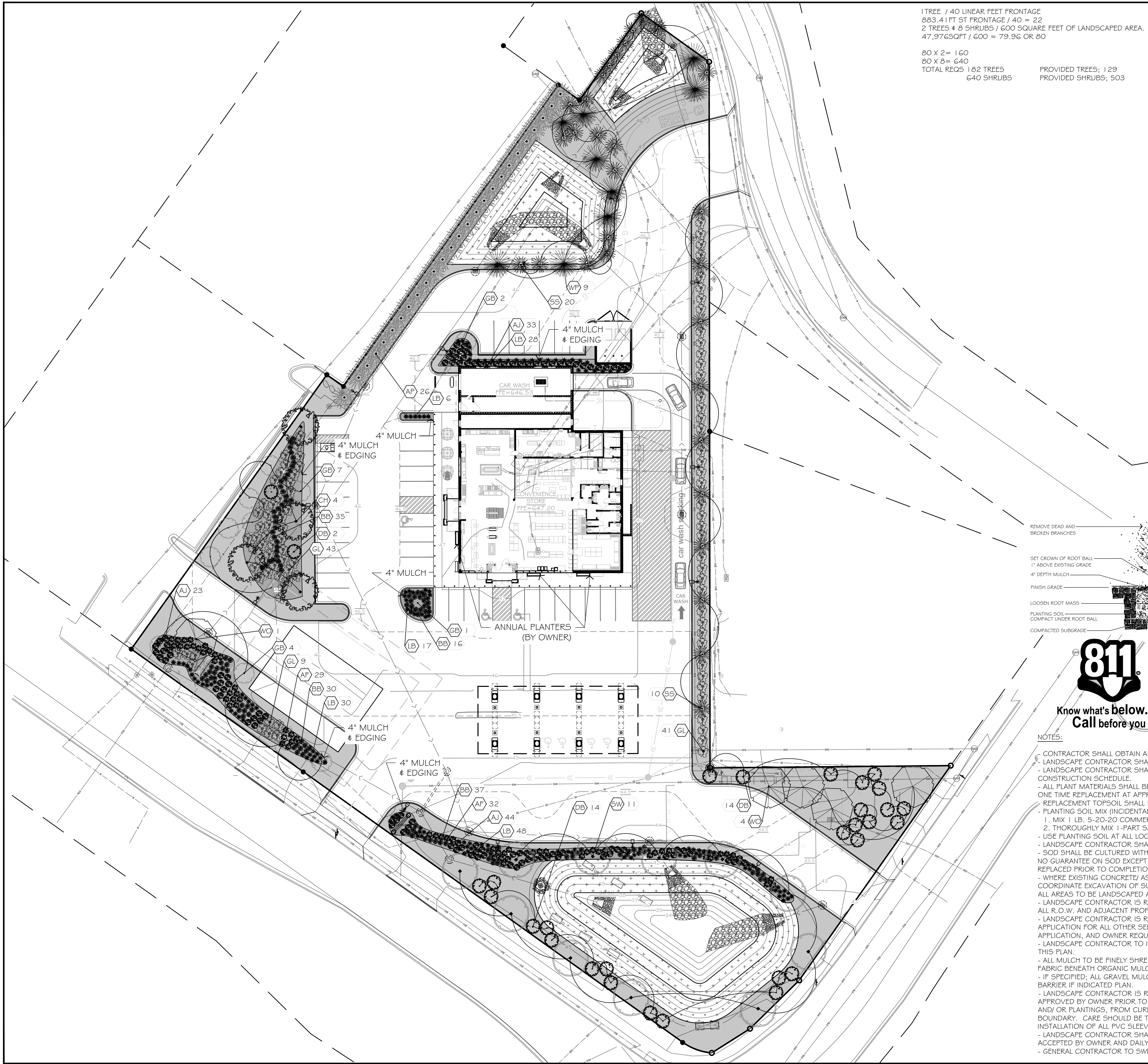
EROSION CONTROL DETAILS  
CONVENIENCE STORE 762  
LA CROSSE, WISCONSIN

NO.	DATE	DESCRIPTION
-	04JAN24	SUBMITTAL
-	17JAN24	CITY SUBMITTAL
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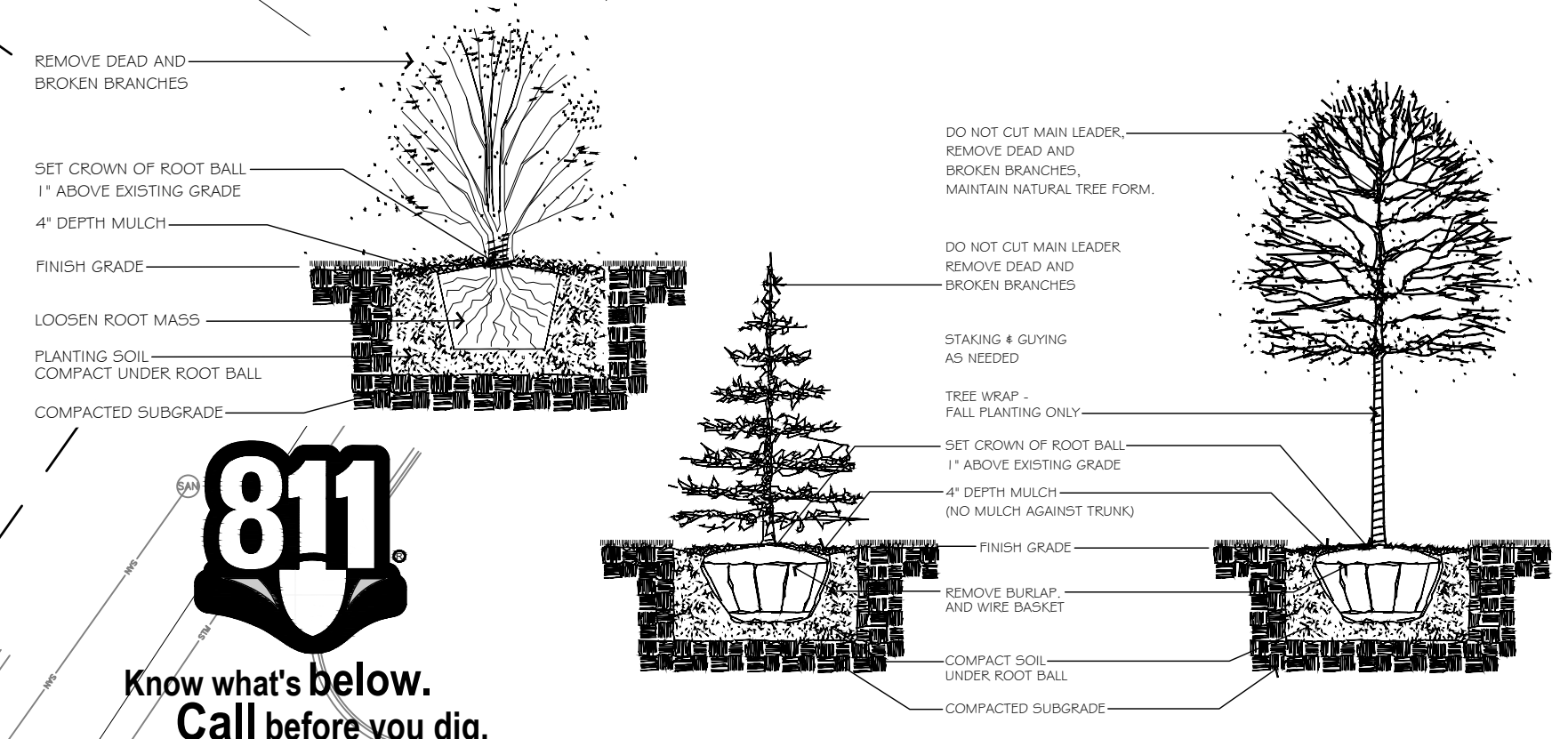
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PROJ. NO. \_\_\_\_\_ 23-762  
DATE \_\_\_\_\_ 2023-12-22  
SHEET \_\_\_\_\_ C603

INSITES 23-0228 PM N. B.





PLANT MATERIAL						HEIGHT	X
OVERSTORY TREES	QUANTITY	SIZE	ROOT TYPE	COMMON NAME	BOTANICAL NAME		WIDTH
SW	11	2.5' CAL.	B&B	SWAMP WHITE OAK	<i>Quercus imbricaria</i>	50'	25'
CH	4	2.5' CAL.	B&B	COMMON HACKBERRY	<i>Celtis occidentalis</i>	60'	50'
WO	5	2.5' CAL.	B&B	WHITE OAK	<i>Quercus alba</i>	50'	50'
DB	30	1.5' CAL.	B&B	DAKOTA PINNACLE BIRCH	<i>Betula platyphylla 'Fargo'</i>	30'	8'
UNDERSTORY TREES							
GB	14	2.5' CAL.	B&B	DAWYCK GOLD BEECH	<i>Fagus sylvatica 'Dawyck Gold'</i>	45'	15'
EVERGREEN TREES							
WP	9	10' HT	B&B	WHITE PINE	<i>Pinus strobus</i>	65'	35'
SS	30	6' HT	pot	SWISS STONE ALGONQUIN PILLAR	<i>Pinus contorta 'Algonquin Pillar'</i>	25'	10'
AP	26	10' HT	B&B	AUSTRIAN PINE	<i>Pinus nigra</i>	60'	40'
SHRUBS							
AJ	100	#3 CONT	pot	AMBER JUBILEE NINEBARK	<i>Physocarpus opulifolius 'Jefani'</i>	5'	4'
AF	62	#3 CONT	pot	ARCTIC FIRE DOGWOOD	<i>Cornus stolonifera 'Fango'</i>	4'	4'
GL	93	#3 CONT	pot	GRO-LOW FRAGRANT SUMAC	<i>Rhus aromatica 'Gro-Low'</i>	2'	7'
GRASSES							
BD	116	#1 CONT	pot	BIG BLUESTEM	<i>Andropogon gerardii</i>	5'	6'
LB	130	#1 CONT	pot	LITTLE BLUE STEM	<i>Schizachyrium scoparium</i>	4'	3'
SEED SPEC: FALL SEEDING IS PREFERABLE (AUG. 20 TO OCT. 20). SPRING SEEDING SHOULD BE BETWEEN MARCH 15 - MAY 15. NO SUMMER SEEDING.							
+	437	5Y		PRAIRIE NURSERY, DETENTION BASIN, WET PRAIRIE SEED MIX (MIX #50062 OR APPROVED EQUAL). PROVIDE EROSION CONTROL BLANKET ON SIDE SLOPES.			
+	935	5Y		PRAIRIE NURSERY, LAND RESTORATION MIX FOR MEDIUM SOILS (MIX #50047 OR APPROVED EQUAL). PROVIDE EROSION CONTROL BLANKET ON SIDE SLOPES.			
EDGING - 1,155 LF							
MULCH - 90 CY							
SOD - 2,917 SY							



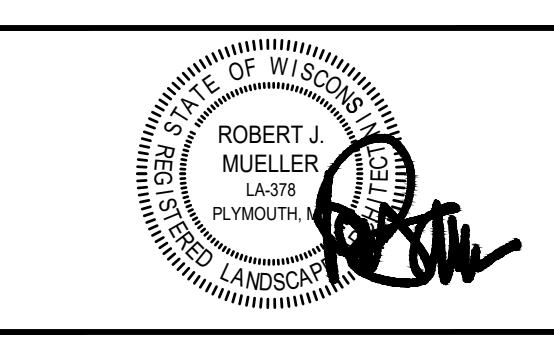
Know what's below. Call before you dig.

- NOTES:
- CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS FOR PLANTING IN ALL R.O.W.
  - LANDSCAPE CONTRACTOR SHALL VERIFY ALL UTILITIES WHICH MAY AFFECT HIS WORK.
  - LANDSCAPE CONTRACTOR SHALL COORDINATE HIS WORK WITH OTHERS AT SITE AND COMPLETE HIS WORK PER OWNERS CONSTRUCTION SCHEDULE.
  - ALL PLANT MATERIALS SHALL BE GUARANTEED ONE (1) FULL YEAR UPON TOTAL COMPLETION AND ACCEPTANCE BY OWNER, WITH ONE TIME REPLACEMENT AT APPROPRIATE TIME OR UPON REQUEST OF OWNER.
  - REPLACEMENT TOPSOIL SHALL BE CLEAN, FREE OF STONES, WEEDS, AND OTHER UNDESIRABLE DEBRIS.
  - PLANTING SOIL MIX (INCIDENTAL COST ITEM)
    - MIX 1 LB. 5-20-20 COMMERCIAL FERTILIZER PER CU. YD. TOPSOIL
    - THOROUGHLY MIX 1-PART SAND AND 1-PART FEAT M055 WITH 5-PARTS FERTILIZER AND TOP SOIL.
  - USE PLANTING SOIL AT ALL LOCATIONS PER DETAILS THIS SHEET
  - LANDSCAPE CONTRACTOR SHALL VERIFY TOPSOIL DEPTH AND NOTIFY OWNER OF ANY DEFICIENCY.
  - SOD SHALL BE CULTURED WITH PREDOMINATELY KENTUCKY BLUEGRASS SEED OF RECENT DISEASE RESISTANT INTRODUCTIONS. NO GUARANTEE ON SOD EXCEPT ANY SOD NOT SATISFACTORY AT TIME OF COMPLETION INSPECTION SHALL BE PROMPTLY REPLACED PRIOR TO COMPLETION OF JOB. STAKE SOD ON SLOPES 3:1 AND GREATER.
  - WHERE EXISTING CONCRETE ASPHALT AREAS ARE TO BE REPLACED WITH LANDSCAPING, PROVISIONS SHOULD BE TAKEN TO COORDINATE EXCAVATION OF SUBSOIL TO A DEPTH OF 2' WITH GRADING CONTRACTOR. REPLACE WITH COMPACTED TOPSOIL. ALL AREAS TO BE LANDSCAPED AND SODDED SHALL BE GRADED SMOOTH AND EVEN.
  - LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR SODDING ALL AREAS WHICH ARE DISTURBED BY CONSTRUCTION INCLUDING ALL R.O.W. AND ADJACENT PROPERTIES.
  - LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR PROVIDING BLANKET ON ALL SEEDED AREAS THAT ARE SLOPED. MULCH APPLICATION FOR ALL OTHER SEEDED AREAS SHALL BE EITHER HYDOMULCH OR DISKED STRAW DEPENDING ON SEED TYPE, APPLICATION, AND OWNER REQUEST.
  - LANDSCAPE CONTRACTOR TO INSTALL "VALLEY VIEW", "BLACK DIAMOND" EDGING AROUND ALL PLANTING BEDS AS SHOWN ON THIS PLAN.
  - ALL MULCH TO BE FINELY SHREDDED HARDWOOD ORGANIC BARK MULCH. NO DYED MULCHES. INSTALL 4" DEPTH. NO FILTER FABRIC BENEATH ORGANIC MULCHES. NO EDGING AROUND ALL TREES OUTSIDE SHRUB BEDS.
  - IF SPECIFIED: ALL GRAVEL MULCH SHALL BE 1" DIA. WASHED "RIVER ROCK". INSTALL 4" DEPTH WITH APPROVED WEED FABRIC BARRIER IF INDICATED PLAN.
  - LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR IRRIGATION SYSTEM INSTALLATION PER IRRIGATION PLAN. DESIGN SHALL BE APPROVED BY OWNER PRIOR TO INSTALLATION. IRRIGATION DESIGN SHOULD ENCOMPASS ALL LANDSCAPE AREAS WITH SOD AND/OR PLANTINGS, FROM CURB TO CURB. R.O.W. SHOULD BE IRRIGATED FROM SPRINKLER HEADS LOCATED WITHIN PROPERTY BOUNDARY. CARE SHOULD BE TAKEN IN VICINITY OF ALL WALKS AND DRIVES TO MINIMIZE OVER SPRAY. COORDINATE INSTALLATION OF ALL PVC SLURVE UNDER DRIVE AREAS WITH GENERAL CONTRACTOR.
  - LANDSCAPE CONTRACTOR SHALL CLEAN ALL PAVEMENT AREAS AFTER ALL LANDSCAPE INSTALLATION IS COMPLETE AND ACCEPTED BY OWNER AND DAILY AS DEEMED NECESSARY BY THE CITY.
  - GENERAL CONTRACTOR TO SWEEP PAVEMENT AREAS PRIOR TO TURN OVER TO OWNER.



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LANDSCAPE PLAN  
 CONVENIENCE STORE 762  
 LA CROSSE, WISCONSIN

NO.	DATE	DESCRIPTION
04	JAN24	SUBMITTAL
17	JAN24	CITY SUBMITTAL

DRAWN BY: GRAPHIC  
 SCALE: 23-762  
 PROJ. NO: 23-762  
 DATE: 2023-12-22  
 SHEET: C700

INSITES 23-0225 PW N.L.D.



**GENERAL NOTES:**

1. FOOTCANDLE LEVELS SHOWN ON THIS PLAN ARE CALCULATED AT GRADE LEVEL.
2. ALL POLES SHALL BE INSTALLED A MINIMUM OF 3'-0" FROM BACK OF CURB TO EDGE OF POLE BASE UNLESS NOTED.
3. POLE THAT ARE LOCATED AT CORNER OF ISLAND SHALL BE A MINIMUM OF 6'-0" FROM BACK OF CURB TO EDGE OF POLE BASE. POLES THAT MUST BE INSTALLED LESS THAN 6'-0" FROM BACK OF CURB TO EDGE OF POLE BASE SHALL HAVE PROTECTIVE BOLLARDS INSTALLED AROUND THE POLE BASE. COORDINATE WITH KWIK TRIP PRIOR TO INSTALLATION.

**KEYED NOTES:**

1. COORDINATE LOCATION AND MOUNTING HEIGHT OF SECURITY CAMERA WITH OWNER.
2. CONTRACTOR SHALL INSTALL POLE MOUNT FIXTURE 12'-0" FROM THE CLASS A & B SOILS OVER DIG OF UNDERGROUND FUEL TANK TO EDGE OF POLE BASE.
3. CONTRACTOR SHALL POLE MOUNT FIXTURE 6'-0" FROM BACK OF CURB TO EDGE OF POLE BASE TO AVOID UNDERGROUND UTILITIES.

**FIXTURE SYMBOLS:**

- LED LIGHT MOUNTED UNDER FUEL CANOPIES
- LED STRIP LIGHT MOUNTED IN GABLE
- RECESSED LED DOWNLIGHT
- WALL MOUNTED LED FIXTURE
- POLE MOUNTED LED FIXTURE
- CAMERA

**FIXTURE TYPES:**

- D20 - RECESSED LED DOWNLIGHT GOTHAM EVO-35/30-BAR-WD-120-TRW  
FIXTURES ARE SHOWN DIMMED DOWN TO 40%.
- S7E - LED STRIP LIGHT MOUNTED IN GABLE LITHONIA TZL1N1.96-10000LM-FST-ANVOLT  
FIXTURES ARE SHOWN DIMMED DOWN TO 40%.
- CF - LSI LIGHTING - SCV-LED-23L-SCFT-UNV-DIM-50-WHT MOUNTED UNDER GAS CANOPY MOUNT FIXTURES WITH FORWARD THROW OPTIC AIMING IN DIRECTION OF ARROW.
- CF-D - LSI LIGHTING - SCV-LED-23L-SCFT-UNV-DIM-50-WHT MOUNTED UNDER GAS CANOPY MOUNT FIXTURES WITH FORWARD THROW OPTIC AIMING IN DIRECTION OF ARROW.  
FIXTURES ARE SHOWN DIMMED DOWN TO 70%.
- C5 - LSI LIGHTING - SCV-LED-15L-SC-UNV-DIM-50-WHT MOUNTED UNDER GAS CANOPY MOUNT FIXTURES WITH FORWARD THROW OPTIC AIMING IN DIRECTION OF ARROW.  
FIXTURES ARE SHOWN DIMMED DOWN TO 50%.
- CWT - LED WALL PACK LSI LIGHTING: XPWS3-FT-LED-48-350-CW-UE-BLK  
FOOTCANDLES CALCULATED AT MOUNTING HEIGHT OF 8'-6" AFG.
- P13L - LSI LIGHTING - MRS-LED-18L-SIL-3-UNV-50-70CRI-WHT-IL
- P1F - LSI LIGHTING - MRS-LED-18L-SIL-FT-UNV-50-70CRI-WHT
- P1FL - LSI LIGHTING - MRS-LED-18L-SIL-FT-UNV-50-70CRI-WHT-IL
- P2FL - LSI LIGHTING - MRS-LED-30L-SIL-FT-UNV-50-70CRI-WHT-IL

**FIXTURE QUANTITIES**

- D20 - 40
- S7E - 6
- CF - 2
- CF-D - 7
- C5 - 7
- CWT - 1
- P13 - 3
- P13L - 6
- P1F - 2
- P1FL - 4
- P2FL - 1

PROVIDE (14) 16' POLES AND (1) 30' POLES.

**CALCULATION STATISTICS**

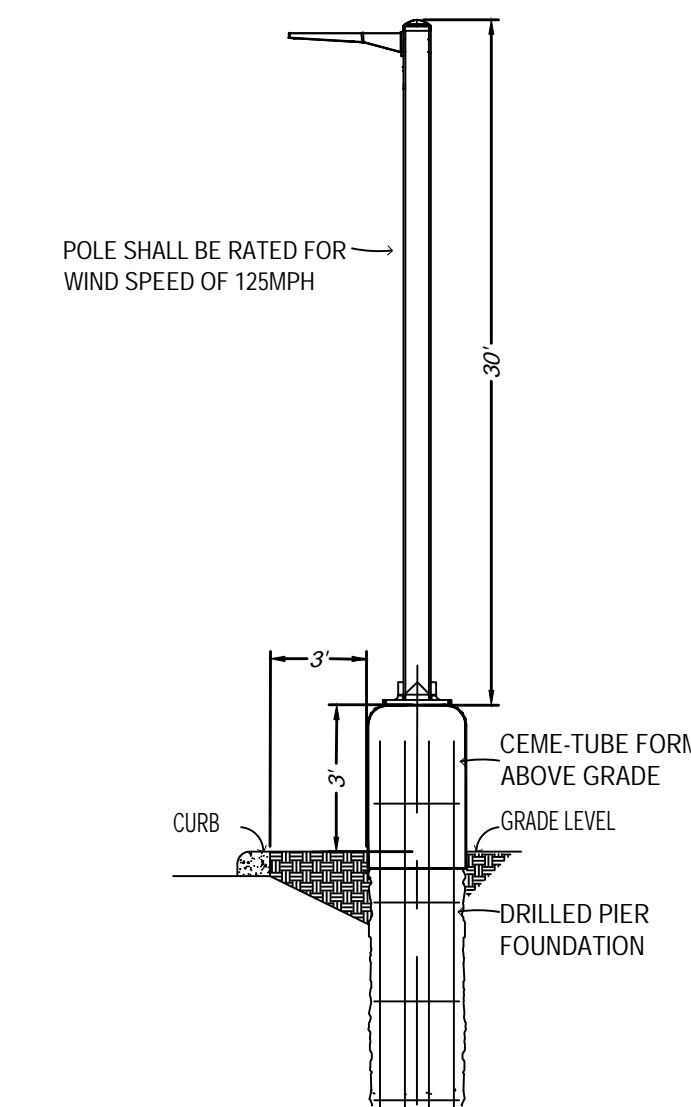
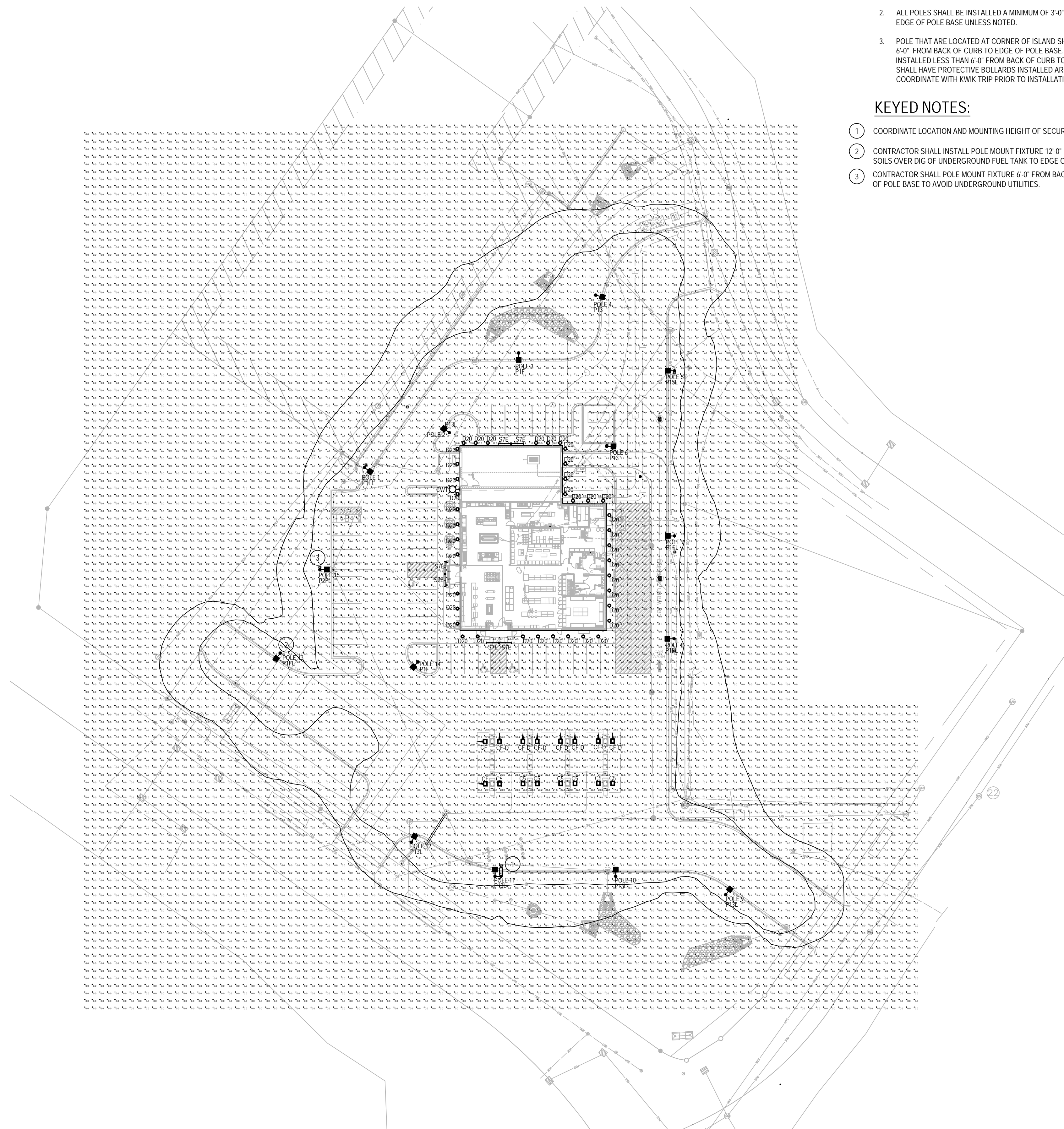
OVERALL SITE:	N. PARKING NEAR STORE:
AVERAGE: 1.6	AVERAGE: 2.2
MAXIMUM: 38.5	MAXIMUM: 3.4
MINIMUM: 0.0	MINIMUM: 1.0
	MAXMIN: 3.4:1
	AVGMIN: 2.2:1

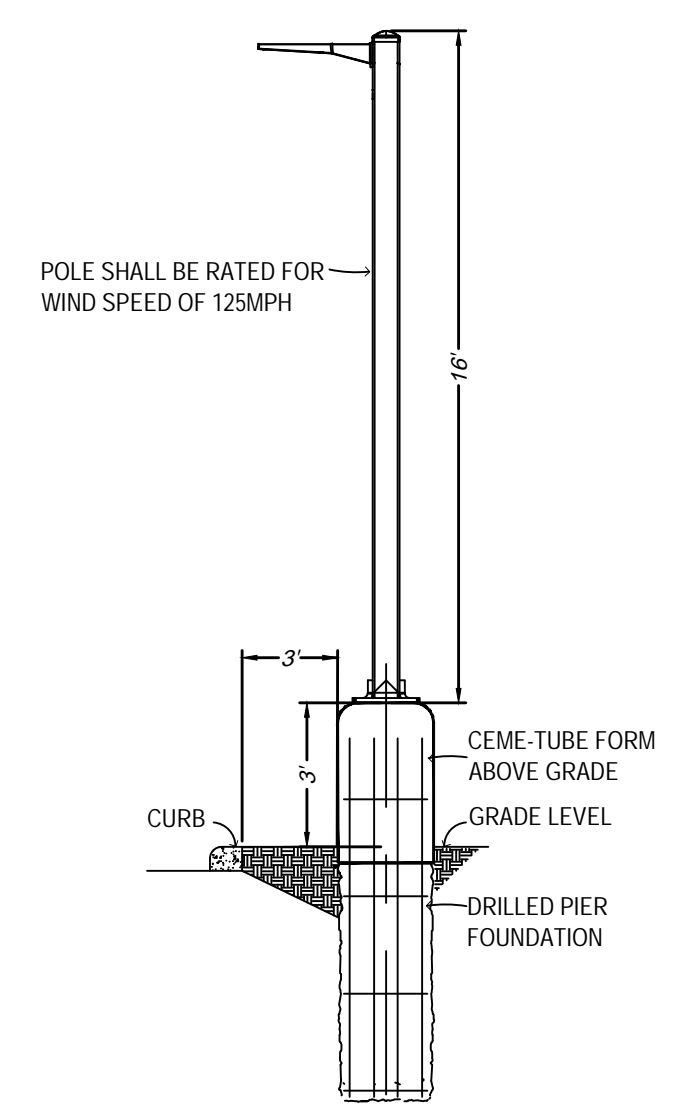
S. PARKING NEAR STORE:	W. PARKING NEAR STORE:
AVERAGE: 2.2	AVERAGE: 1.8
MAXIMUM: 4.7	MAXIMUM: 4.0
MINIMUM: 1.0	MINIMUM: 1.0
MAXMIN: 4.7:1	MAXMIN: 4.0:1
AVGMIN: 2.2:1	AVGMIN: 1.8:1

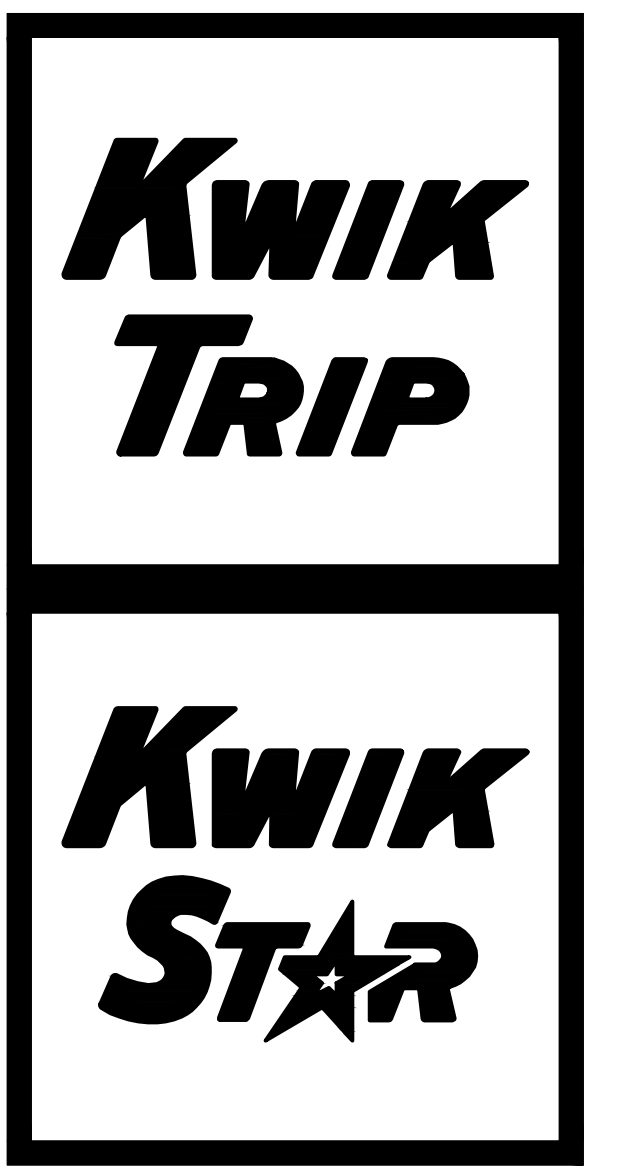
W. PARKING LOT:
AVERAGE: 3.4
MAXIMUM: 5.6
MINIMUM: 1.0
MAXMIN: 5.6:1
AVGMIN: 1.8:1



**LOT LIGHT ELEVATION DETAIL**  
NOT TO SCALE  
DETAIL APPLIES TO POLE 15

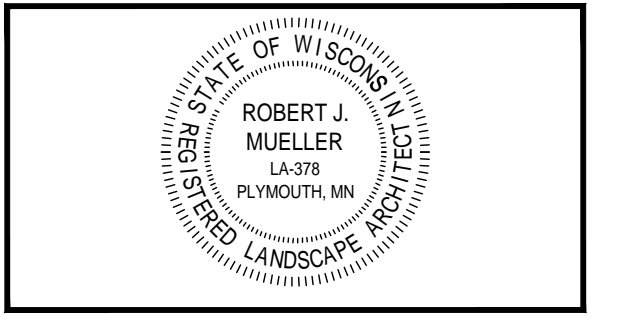


**LOT LIGHT ELEVATION DETAIL**  
NOT TO SCALE  
DETAIL APPLIES TO POLES 1 THRU 14



**KWIK TRIP, Inc.**  
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1626 OAK STREET  
LACROSSE, WI 54602-2107  
PH. (608) 781-8988  
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**INSITES**  
SITE PLANNING LANDSCAPE  
3131 FARMBROOKS LANE  
NORTH, STE 280  
PLYMOUTH, MINNESOTA 55447  
763.383.8400  
fax 763.383.8440



**PHOTOMETRIC SITE PLAN**  
**CONVENIENCE STORE 762**  
**LA CROSSE, WISCONSIN**

NO.	DATE	DESCRIPTION
-	04 JAN 24	SUBMITTAL
-	15 JAN 24	CITY SUBMITTAL
-		
-		
-		

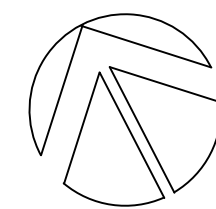
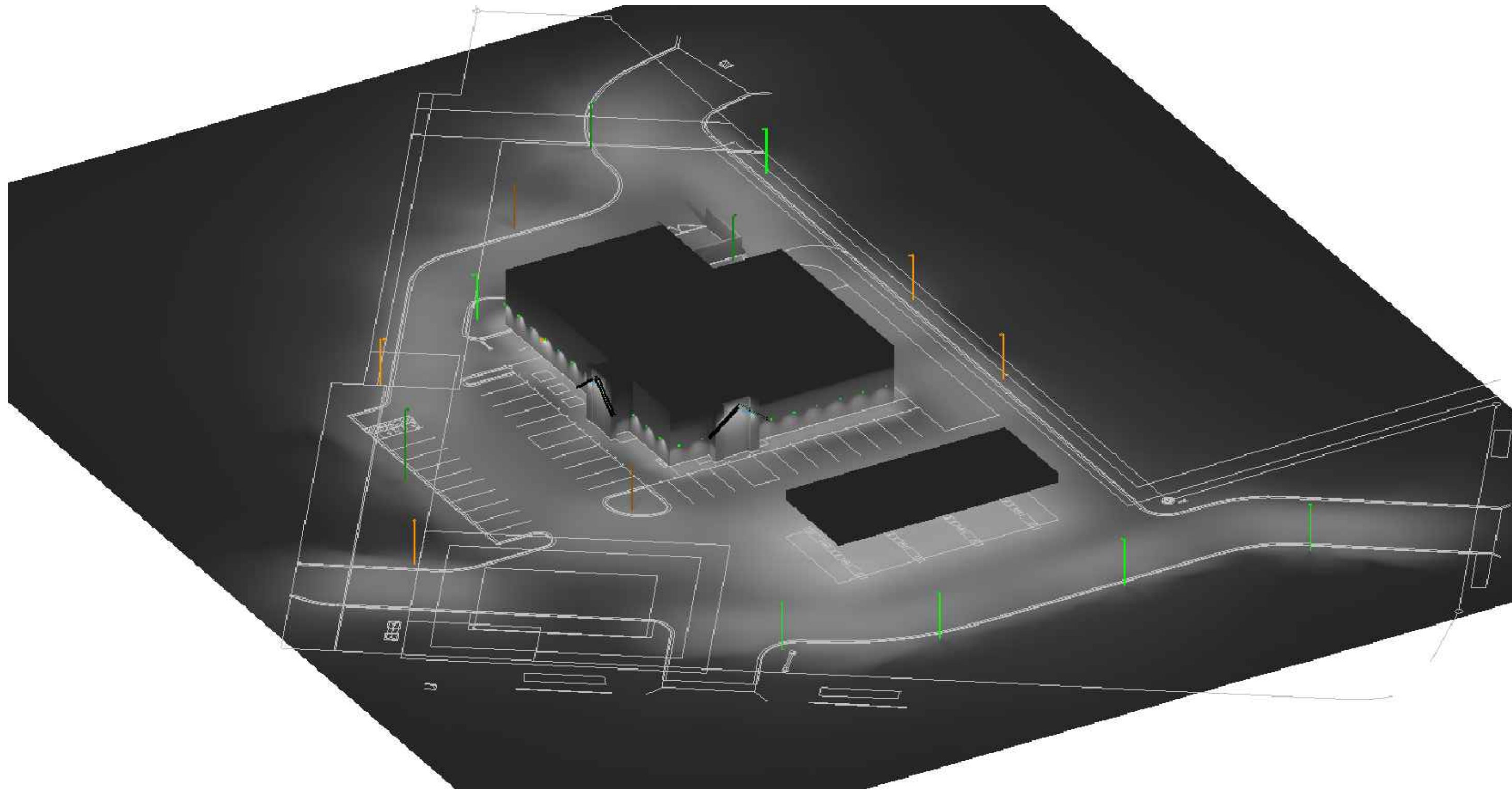
DRAWN BY	DLC
SCALE	GRAPHIC
PROJ. NO.	23-762
DATE	2023-12-22
SHEET	C800

2024-0195 01  
**GRÄEF**  
 275 West Wisconsin Avenue, Suite 300  
 Milwaukee, WI 53203  
 414 / 259 1500  
 414 / 259 0037 fax

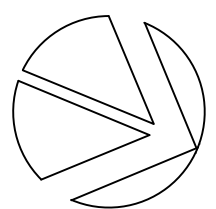
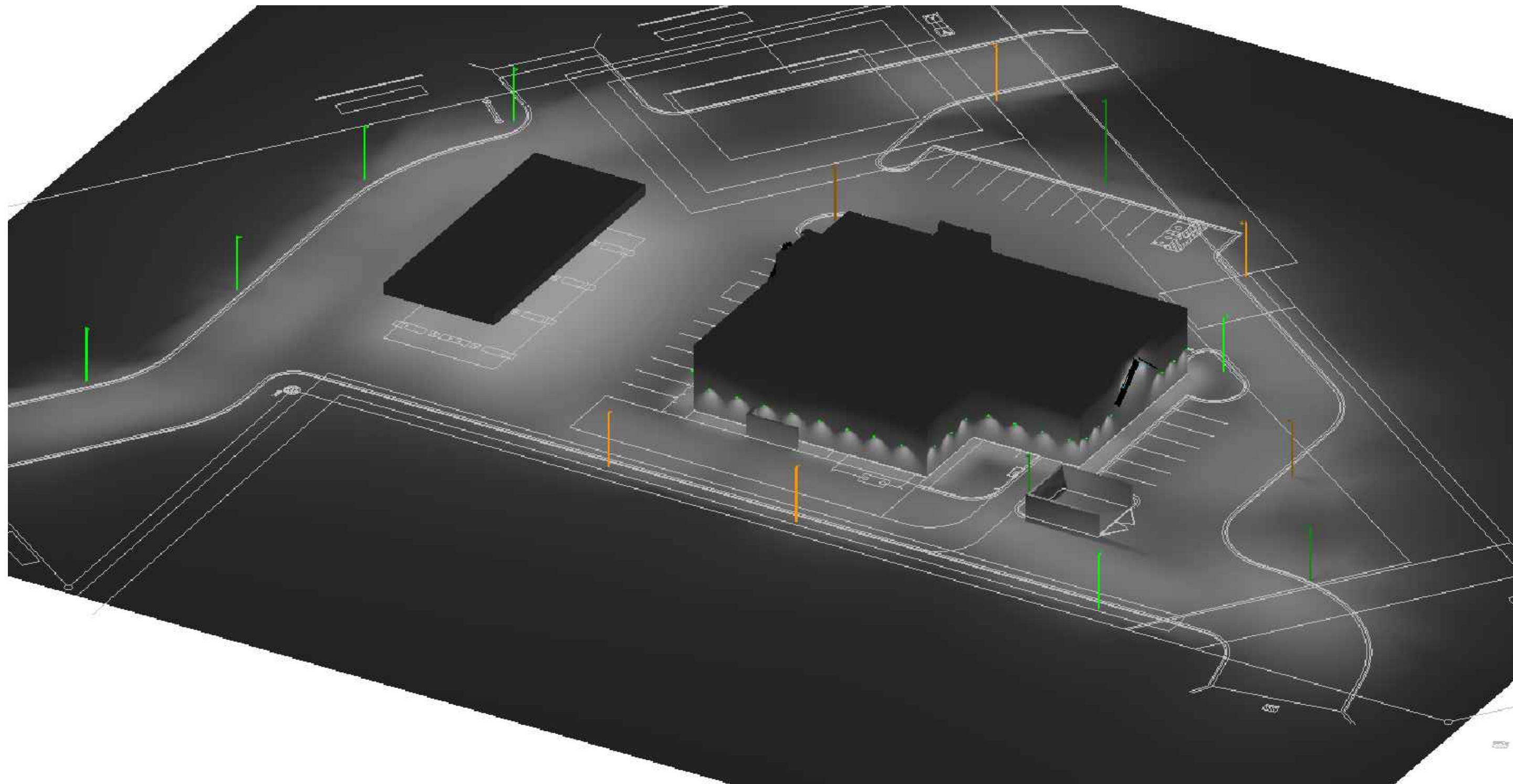
**PHOTOMETRIC SITE PLAN**  
SCALE: 1" = 40'-0"

INSITES 23-028 PM.TLB





PHOTOMETRIC RENDERING PLAN  
NOT TO SCALE



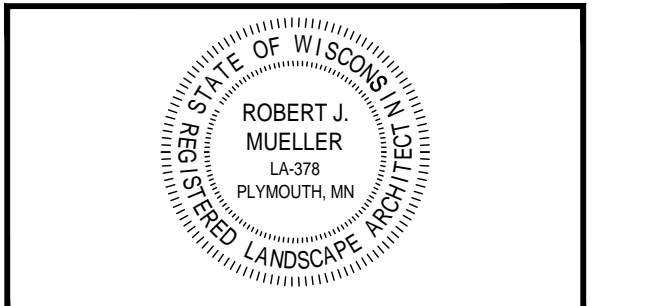
PHOTOMETRIC RENDERING PLAN  
NOT TO SCALE

**KWIK  
TRIP**

**KWIK  
STAR**

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Plymouth, Minnesota 55447  
763.383.8400  
fax 763.383.8440



PHOTOMETRIC  
RENDERING PLANS  
CONVENIENCE STORE 762  
LA CROSSE, WISCONSIN

NO.	DATE	DESCRIPTION
1	04 JAN 24	SUBMITTAL

DRAWN BY \_\_\_\_\_  
SCALE \_\_\_\_\_ GRAPHIC  
PROJ. NO. 23-762  
DATE 2023-12-22  
SHEET C801

2024-0195.01  
**GRÄEF**  
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Milwaukee, WI 53203  
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414 / 259 0037 fax

INSITES 23-028 PM N.B.