CONSTRUCTION PLANS
FOR
RAISING CANE'S

RESTAURANT # 1148
LA CROSSE, WISCONSIN, 54601

CONTACT INFORMATION

OWNER:
RAISING CANE'S RESTAURANT'S L.L.C.
6800 BISHOP ROAD
PLANO, TEXAS 75024
ATTN: LUARON FOSTER
PHONE 972-769-3348

CIVIL ENGINEER:
BENCHMARK DESIGN GROUP, LLC
2026 REPUBLIC DRIVE, SUITE B
TYLER, TEXAS 75701
ATTN: RYAN DAVIS, P.E.
PHONE: 903-534-5353

ARCHITECT
SHREMSHOCK ARCHITECTS INC.
7775 WALTON PARKWAY SUITE 250
NEW ALBANY, OHIO 43054
ATTN: PAUL SHULTZ
PHONE: 614-545-4550

SURVEYOR:
CHAPUT LAND SURVEYS
234 W. FLORIDA STREET
MILWAUKEE, WISCONSIN 53204
ATTN: DONALD CHAPUT, R.P.L.S.
PHONE: 414-224-8068

VICINITY MAP
N.T.S.

INDEX OF SHEETS

NOTICE TO CONTRACTORS

1. These plans are subject to review and approval by all jurisdictions having authority.
2. Contractor shall appropriately notify all relevant entities prior to digging on this project.
3. The contractor shall notify the engineer, in writing, of any errors or discrepancies discovered in the construction documents immediately.
4. The topographic information shown hereon is a reflection of the information provided by **CHAPUT LAND SURVEYS**
   If the contractor discovers any errors in said information, he shall notify the engineer, in writing, immediately. The engineer and owner shall be indemnified of any problems and/or associated costs resulting from lack of notification.
5. The contractor shall be responsible for confirming the horizontal and vertical location of buried utilities and structures, including, but not limited to the following:

   Telephone cable, Stormsewer lines, Television cables, Saltwater lines, Conduits, Water lines, Sanitary Sewer lines, Pipes, Gas lines, Oil Production lines

   Note: If discrepancies occur between that which is shown on the plans and conditions present in the field, the contractor shall notify the engineer, in writing immediately. Failure to do so shall absolve owner and engineer of liability and associated costs.

Raising Cane's Chicken Fingers
Restaurant Support Office
6800 Bishop Road, Plano, TX 75024
Tele: 972-769-3100 Fax: 972-769-3101

Restaurant:

Raising Cane's
Restaurant #C1148
Hwy 16 & Braund St
La Crosse, Wi. 54560
P4-V-AV

Designer's Information:

BENCHMARK DESIGN GROUP
CIVIL / ENVIRONMENTAL / PLANNERS
2026 REPUBLIC DRIVE, SUITE B TYLER TEXAS 75701 - (903) 534-5353
WWW.BENCHMARK-ENGINEERS.COM

Prototype Phase:	2023
Project Issue Date:	00-00-0000
SAI Project Manager:	PDS

PERMIT SET
3-8-2024

WISCONSIN
RYAN W. DAVIS
E-49115
MADISON
WI
PROFESSIONAL ENGINEER
3-8-2024
EXP. 1/31/2024

Sheet Versions:

#	Date	Description
1	1.11.24	DESCRIPTION

Sheet Title:

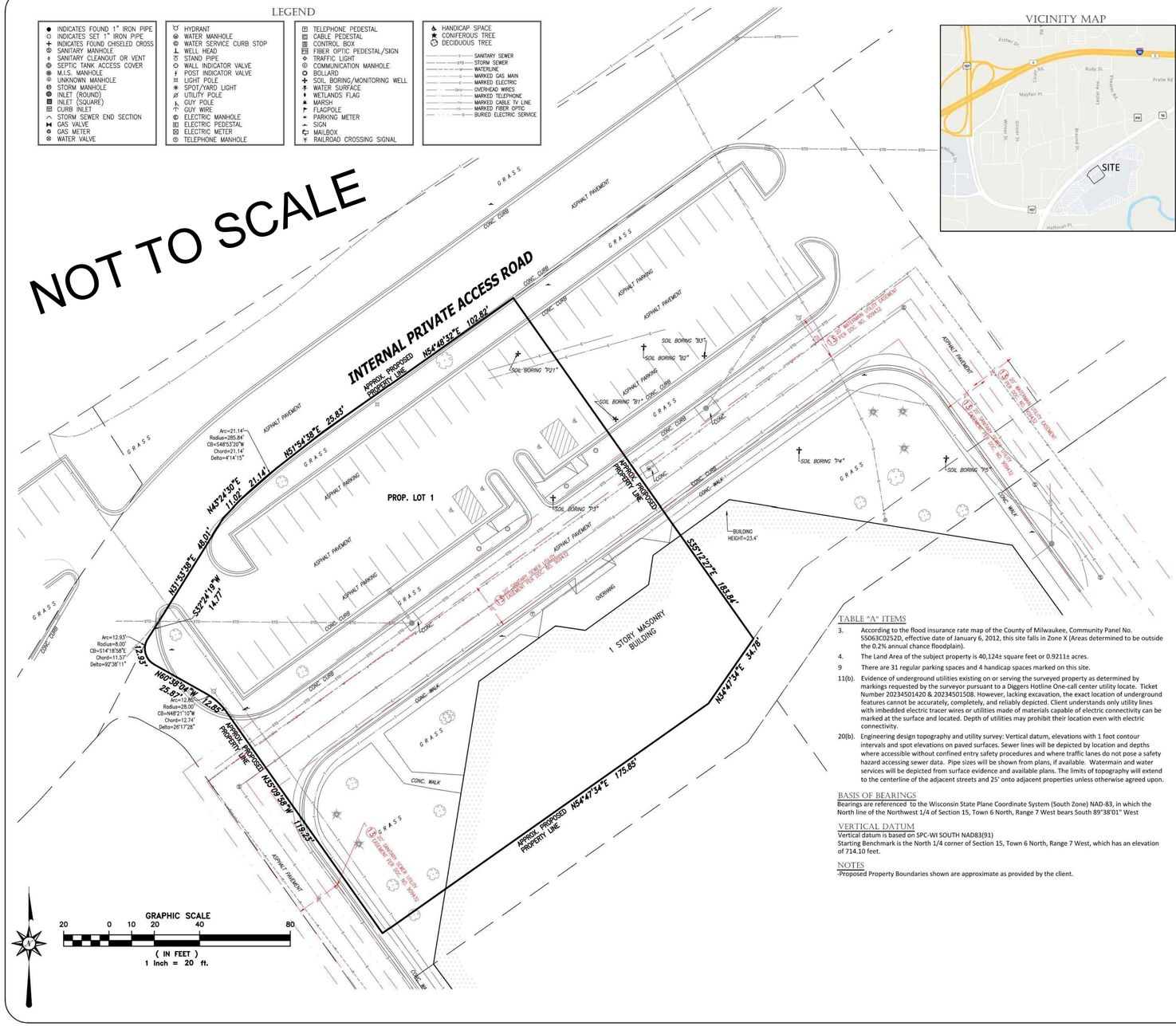
COVER SHEET

Sheet Number:

C-1.0

BDG Job Number: 2023.098

ALTA/NSPS LAND TITLE SURVEY



CLIENT
Benchmark Design Group, Inc.

SITE ADDRESS
3900 State Road 16, La Crosse, Wisconsin.

LEGAL DESCRIPTION
Being that part of:

TRACT I - Fee Simple:
Part of the SW 1/4 of the SE 1/4 of Section 10, and part of Government Lot 2 of Section 15, and part of the NE 1/4 of the NW 1/4 of Section 15, all being In Township 16 North, Range 7 West, City of La Crosse, La Crosse County, Wisconsin, described as follows: Commencing at the Southwest corner of said NE 1/4 of the NW 1/4 of said Section 15; thence North 89° 32' 55" East along the South line thereof 647.50 feet to the Southeasterly right of way of State Road 16 (formerly US Highway 16); thence North 21° 48' 58" East along said right of way 215.16 feet; thence North 28° 43' 49" East along said right of way 95.84 feet; thence North 37° 43' 10" East 478.44 feet to a point on said right of way; thence North 35° 52' 20" East along said right of way 194.95 feet; thence North 50° 03' 42" East 323.64 feet to a point on said right of way and the point of beginning of this description: Thence South 36° 39' 39" East 108.60 feet to a point on a curve concave to the Northwest having a central angle of 26° 00' and a radius of 268.00 feet; thence Southwesterly along the arc of said curve 121.61 feet; the chord of said curve bears South 66° 20' 21" West 120.57 feet; thence South 79° 20' 21" West 21.20 feet to a point of curve concave to the Southeast, having a central angle of 8° 24' 13" and a radius of 268.00 feet; thence Southwesterly along the arc of said curve 39.31 feet; the chord of said curve bears South 75° 08' 14.5" West 39.27 feet; thence South 36° 39' 39" East 321.00 feet; thence North 53° 20' 21" East 257.00 feet; thence South 36° 39' 39" East 83.51 feet; thence South 81° 39' 39" East 15.53 feet; thence South 36° 39' 39" East 1.77 feet; thence South 81° 39' 39" East 3.30 feet; thence South 36° 39' 39" East 27.66 feet; thence South 81° 39' 39" East 78.95 feet; thence South 36° 39' 39" East 28.82 feet;thence North 53° 20' 21" East 236.25 feet; thence North 36° 39' 39" West 28.08 feet; thence North 53° 20' 21" East 16.76 feet; thence North 08° 20' 21" East 39.60 feet; thence North 53° 20' 21" East 39.47 feet; thence North 08° 20' 21" East 42.42 feet; thence North 44° 22' 52" East 38.33 feet to a point of a curve concave to the Northwest having a central angle of 21° 02' 31" and a radius of 38.00 feet; thence Northeasterly along the arc of said curve 13.96 feet; the chord of said curve bears North 33° 51' 36.5" East 13.88 feet; thence North 23° 20' 21" East 89.57 feet; thence North 08° 20' 21" East 128.91 feet; thence North 36° 39' 39" West 315.76 feet to the Southeasterly right of way of State Road 16 (formerly US Highway 16); thence South 55° 45' West along said right of way 273.35 feet; thence South 34° 15' East along said right of way 10.00 feet; thence South 55° 45' West along said right of way 419.45 feet; thence South 46° 05' 26" West along said right of way 99.79 feet to a point on a curve concave to the Southeast having a central angle of 0° 18' 50" and a radius of 2,775 feet and a chord that bears South 53° 33' 42" West 15.20 feet; thence Southwesterly along the arc of said curve 15.20 feet to the point of beginning.
LESS AND EXCEPT- the property conveyed to PR Valley View Limited Partnership, by Quit Claim Deed recorded on February 23, 2010 in Document No. 1544960, more particularly described as follows:
Part of Government Lot 2 of Section 15, Township 16 North, Range 7 West, City of La Crosse, La Crosse County, Wisconsin, described as follows: Commencing at the North Quarter Corner of said Section 15; thence South 27° 35' 46" West 1,518.56 feet to the intersection of the south line of the Northeast Quarter of the Northwest Quarter of said Section 15 and the Southeasterly right of way line of State Road 16 (formerly US Highway 16). Said intersection recorded as North 89° 32' 55" East 647.50 feet from the Southwest corner of the NE 1/4 of the NW 1/4; thence along said right of way line, North 21° 50' 25" East (recorded as North 21° 48' 58" East) 215.16 feet; thence continuing along said right of way line, North 28° 43' 49" East 95.84 feet; thence continuing along said right of way line, along an arc of a curve having a cord bearing of North 37° 43' 10" East 478.44 feet; thence continuing along said right of way line North 35° 55' 26" East 194.98 feet (recorded as North 35° 52' 20" East 194.95feet); thence continuing along said right of way line, along the arc of a curve having a chord bearing of North 50° 03' 42" East (recorded as North 50° 13' 42" East) 323.64 feet; thence South 36° 39' 39" East 108.60 feet to a point on a curve concave to the Northwest, having a central angle of 26° 00' 00" and a radius of 268.00 feet; thence Southwesterly along the arc of said curve 121.61 feet. The chord of said curve bears South 66° 20' 21" West 120.57 feet; thence South 79° 20' 21" West 21.20 feet to a point on a curve concave to the Southeast, having a central angle of 08° 24' 13" and a radius of 268.00 feet; thence Southwesterly along the arc of said curve 39.31 feet. The chord of said curve bears South 75° 08' 14.5" West 39.27 feet; thence South 36° 39' 39" East 321.00 feet; thence North 53° 20' 21" East 257.00 feet to the point of beginning of this description: Thence South 36° 39' 39" East 49.00 feet; thence North 53° 20' 21" East 83.51 feet; thence North 78° 48' 33" West 66.09 feet; thence South 53° 20' 21" West 39.16 feet to the point of beginning.

Proposed Lot ____, Certified Survey Map No. _____, being a part of the Northwest 1/4 of the Northeast 1/4 of Section 15, Town 16 North, Range 7 West., in the City of La Crosse, La Crosse County, Wisconsin, described as follows:

TRACT II - Easement:
Together with the appurtenant rights contained in that certain Construction, Operating and Reciprocal Easement Agreement between Dayton Development Company, Dayton-Hudson Corporation, Sears, Roebuck and Co., Ryan Construction Company of Minnesota, Inc. and G. R. Herberger's, Inc. dated October 19, 1979, and recorded on October 23, 1979 in Volume 636 Page 261, as Document No. 901840, as amended by First Amendment to a Construction, Operating and Reciprocal Easement Agreement dated October 15, 1980, and recorded on October 22, 1980 in Volume 652 Page 534, as Document No. 912094,
and by Second Amendment to Construction, Operating and Reciprocal Easement Agreement dated ebruary 4, 2010, and recorded on February 23, 2010, as Document No. 1544962, and any further amendments thereto. As affected by Assignment and Assumption Agreement (Real Estate) recorded on August 19, 2004 in Document No. 1401940.

LAND AREA
The land area of the subject property is 40,123 square feet or 0.9211 acres.

TITLE COMMITMENT
This survey was prepared based on Old Republic National Title Insurance Company Commitment No. ORTE749183, effective date of September 22, 2023 which lists the following easements and/or restrictions from schedule B-II:

1, 2, 3 & 5 visible evidence shown, if any.

4, 6, 7, 8, 9 & 10 not survey related.

11. Terms and conditions of Easement in favor of Wisconsin-Minnesota Light and Power Company, dated December 20, 1922 and recorded May 21, 1923 as Document No. 246817. Does not affect property by location. Located in the 1/4 Section to the west.
12. Terms and conditions of Right of Way Easement in favor of Northern States Power Company, dated March 16, 1978 and recorded April 2, 1979 as Document No. 894091. Does not affect property by location. Located on the South line of Valley View Mall.
13. Terms and conditions set forth in Easement for sanitary, storm sewer and watermain utilities, dated August 6, 1980 and recorded August 8, 1980 as Document No. 909432. Affects property by location, shown.
Sanitary: Affects property by location, shown.
Storm sewer: Does not affect property by location. Located on the South and East side of Valley View Mall.
Watermain: Affects property by location, shown.
14. Terms and conditions set forth in Easement for ingress and egress in favor of LaCrosse Mall Partners and it's permittees, dated April 19, 1982 and recorded April 22, 1982 as Document No. 926223. Does not affect property by location. Located on the Northeasterly access road for Valley View Mall.
15. Terms and conditions set forth in Supplemental Easement Agreement between Dairyland Power Cooperative and Dayton Development Company, dated August 17, 1979 and recorded August 23, 1979 as Document No. 899645. Does not affect property by location. Located on the Northeasterly side of Valley View Mall.

TABLE "A" ITEMS
3. According to the flood insurance rate map of the County of Milwaukee, Community Panel No. 55063C0252D, effective date of January 6, 2012, this site falls in Zone X (Areas determined to be outside the 0.2% annual chance floodplain).
4. The Land Area of the subject property is 40,124± square feet or 0.9211± acres.
9 There are 31 regular parking spaces and 4 handicap spaces marked on this site.
11(b). Evidence of underground utilities existing on or serving the surveyed property as determined by markings requested by the surveyor pursuant to a Diggers Hotline One-call center utility locate. Ticket Number 20234501420 & 20234501508. However, lacking excavation, the exact location of underground features cannot be accurately, completely, and reliably depicted. Client understands only utility lines with imbedded electric tracer wires or utilities made of materials capable of electric connectivity can be marked at the surface and located. Depth of utilities may prohibit their location even with electric connectivity.
20(b). Engineering design topography and utility survey: Vertical datum, elevations with 1 foot contour intervals and spot elevations on paved surfaces. Sewer lines will be depicted by location and depths where accessible without confined entry safety procedures and where traffic lanes do not pose a safety hazard accessing sewer data. Pipe sizes will be shown from plans, if available. Watermain and water services will be depicted from surface evidence and available plans. The limits of topography will extend to the centerline of the adjacent streets and 25' onto adjacent properties unless otherwise agreed upon.

BASIS OF BEARINGS
Bearings are referenced to the Wisconsin State Plane Coordinate System (South Zone) NAD-83, in which the North line of the Northwest 1/4 of Section 15, Town 6 North, Range 7 West bears South 89°38'01" West

VERTICAL DATUM
Vertical datum is based on SPC-WI SOUTH NAD83(91)
Starting Benchmark is the North 1/4 corner of Section 15, Town 6 North, Range 7 West, which has an elevation of 714.10 feet.

NOTES
-Proposed Property Boundaries shown are approximate as provided by the client.

TO: Raising Cane's Restaurants, L.L.C., a Louisiana limited liability company
Old Republic National Title Insurance Company
First American Title Insurance Company

This is to certify that this map or plat and the survey on which it is based were made in accordance with the 2021 Minimum Standard Detail Requirements for ALTA/NSPS Land Title Surveys, jointly established and adopted by ALTA and NSPS, and includes Items 1, 2, 3, 4, 7(a), 7(b)(1), 7(c), 8, 9, 13(b),(19, 21(a) and 22(b) of Table A thereof. The field work was completed on March 24, 2022

Date of Map: December 21, 2023

DANIEL BEDNAR S-2812 GERMANTOWN WI SURVEYOR

Daniel E. Bednar
Professional Land Surveyor
Registration Number S-2812

Date	Revision description

CHAPUT LAND SURVEYS
234 W. Florida Street
Milwaukee, WI 53204
414-224-8068
www.chaputlandsurveys.com

Drawing No. 5300.00-dmb

CHAPUT LAND SURVEYS

Raising Cane's CHICKEN FINGERS
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2026 REPUBLIC DRIVE, SUITE B, TROY, TEXAS 76579 - (903) 534-2020
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PERMIT SET
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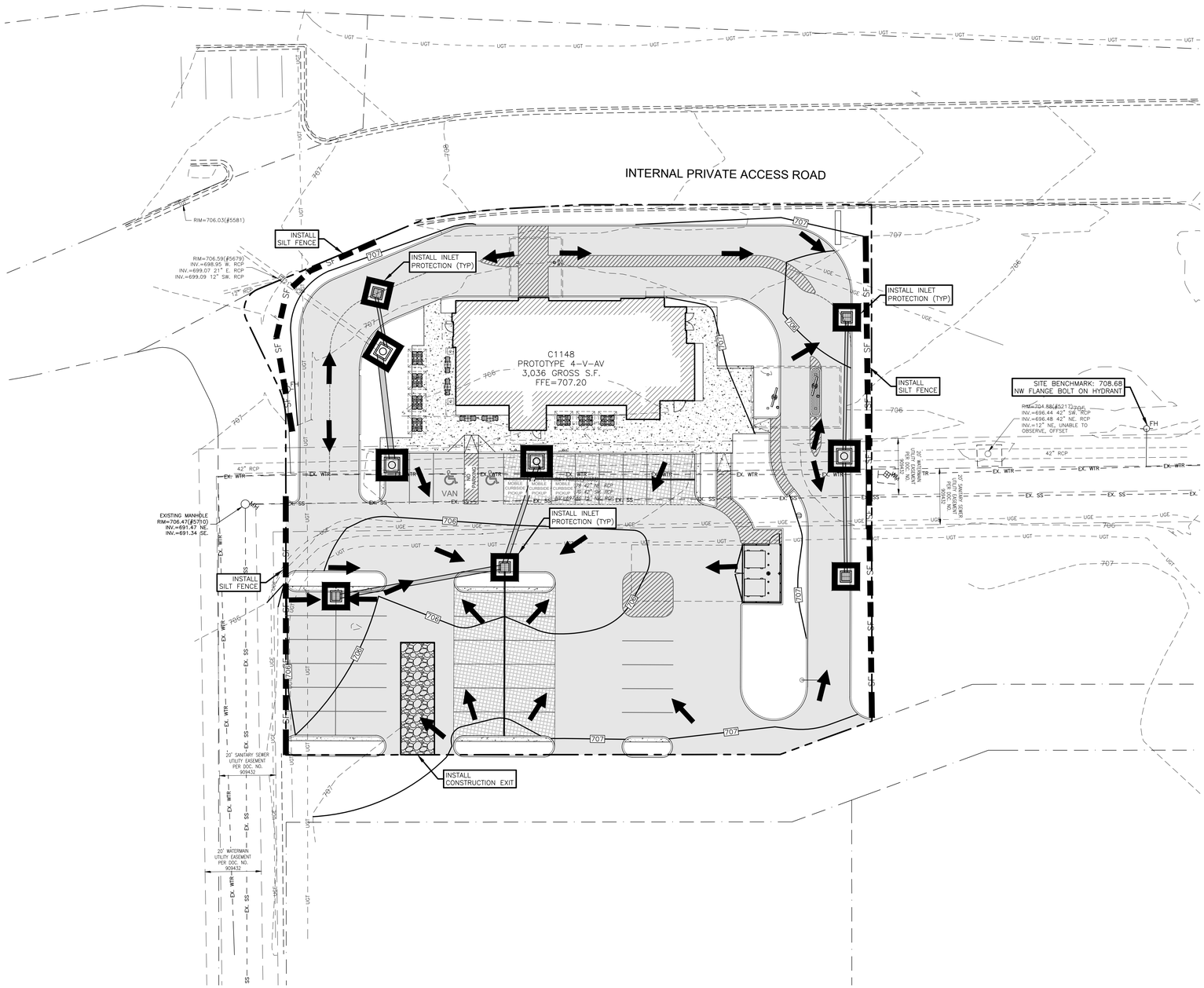
Sheet Title:

ALTA SURVEY

Sheet Number:

C-1.1

BDG Job Number: 2023.098



GRAPHIC SCALE

0 20 40 60 FEET

EROSION CONTROL NOTES:

1. ALL WASH WATER SHALL BE DISPOSED OF IN A MANNER THAT PREVENTS CONTACT BETWEEN WASH WATER POLLUTANTS AND STORM RUNOFF DISCHARGED FROM THIS SITE.
2. OIL AND GREASE ABSORBING MATERIALS SHALL BE READILY AVAILABLE ON-SITE AND SHALL BE PROMPTLY USED TO CONTAIN AND/OR CLEAN UP ALL FUEL OR CHEMICAL SPILLS OR LEAKS.
3. DUST CONTROL SHALL BE ACCOMPLISHED BY WATERING DRY, EXPOSED AREAS ON A REGULAR BASIS. SPRAYING OF PETROLEUM BASED OR TOXIC LIQUIDS FOR THIS IS PROHIBITED.
4. DISTURBED AREAS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE CEASED FOR AT LEAST FOURTEEN DAYS SHALL BE TEMPORARILY SEEDED AND WATERED.
5. DISTURBED AREAS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE PERMANENTLY CEASED SHALL BE PERMANENTLY SEEDED WITHIN SEVEN DAYS PER LANDSCAPING AND/OR OWNER'S REQUIREMENTS.
6. ALL VEHICLES SHALL BE CLEANED AT THE CONSTRUCTION EXIT POINTS ACCORDING TO NOTES SHOWN ON THE DETAIL THEREOF.
7. ALL MATERIALS SPILLED, DROPPED, WASHED OR TRACKED ONTO ADJACENT ROADWAYS BY VEHICLES EXITING THE SITE SHALL BE CLEANED OR REMOVED IMMEDIATELY.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROMPT REMOVAL OF ALL ACCUMULATED SILT IN THE STORM SEWER SYSTEM AND ALONG SILT FENCES.
9. SILT FENCES SHALL BE PLACED AROUND ANY STOCKPILES USED ON THIS SITE.
10. ANY ADDITIONAL EROSION CONTROL MEASURES REQUIRED TO ENSURE COMPLIANCE WITH WDNR. STORMWATER POLLUTION REGULATIONS SHALL BE IMPLEMENTED BY THE CONTRACTOR, AT NO ADDITIONAL EXPENSE TO THE OWNER.
11. ALL TEMPORARY EROSION CONTROL MEASURES SHALL BE REMOVED AND PROPERLY DISPOSED OF OFF-SITE WITHIN THIRTY DAYS AFTER STABILIZATION OF ALL SURFACES.
12. THE CONTRACTOR SHALL ASSUME LIABILITY FOR DAMAGE TO ADJACENT PROPERTIES AND/OR PUBLIC RIGHT-OF-WAY RESULTING FROM FAILURE TO FULLY IMPLEMENT AND EXECUTE ALL EROSION CONTROL PROCEDURES AS REQUIRED BY THE WDNR STORMWATER PERMIT.
13. WHENEVER DIRT, ROCK, OR OTHER MATERIALS ARE EXPORTED FOR USE OFF OF THE PRIMARY CONSTRUCTION SITE, THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THAT WDNR STORM WATER PERMITTING REQUIREMENTS ARE MET. PRIOR TO ANY EXPORT OF MATERIALS, THE CONTRACTOR SHALL FURNISH THE ENGINEER WITH A WRITTEN AGREEMENT WITH ANY LANDOWNER WHO WILL RECEIVE THE EXPORTED MATERIALS, STATING THAT THE SITE WILL BE PROPERLY PERMITTED WHEN REQUIRED AND DESCRIBE THE EROSION CONTROL MEASURES WHICH WILL BE USED. AT A MINIMUM, EROSION CONTROL MEASURES MUST CONSIST OF PERIMETER CONTROLS (WAY BALES OR SILT FENCES) ON ALL DOWNSLOPES AND SIDESLOPE BOUNDARIES OF ANY DISTURBED AREA, PLUS PROVISIONS FOR REVEGETATION AFTER THE FILL MATERIALS ARE IN PLACE.
14. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING EROSION CONTROL MEASURES UNTIL SITE HAS BEEN STABILIZED.
15. DOUBLE SILT FENCE ROWS TO BE MIN. 6' APART.
16. EROSION CONTROL PLANS ARE LIVING DOCUMENTS. FIELD CHANGES MUST OCCUR AS CONSTRUCTION CONDITIONS CHANGE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COMPLY WITH ALL EROSION PROTECTION REQUIREMENTS.

LEGEND

TEL PED	EXISTING TELEPHONE PEDESTAL
C.O.	EXISTING CLEANOUT
WV	EXISTING WATER VALVE
WM	EXISTING WATER METER
MH	EXISTING SAN. SEWER MANHOLE
PP	EXISTING POWER POLE
FH	EXISTING FIRE HYDRANT
OHE	EXISTING OVERHEAD ELECTRIC LINE
EX. WTR	EXISTING WATER LINE
EX. SS	EXISTING SAN. SEWER LINE
	PROPERTY LINE
534	EXISTING 1' CONTOUR
535	EXISTING 5' CONTOUR
534	PROPOSED 1' CONTOUR
535	PROPOSED 5' CONTOUR
	PROPOSED DRAINAGE PATTERN
SF	PROPOSED SILT FENCE

NOTE:

1. DUE TO CONTRACTOR SEQUENCING OPERATIONS, THE LOCATION OF EROSION CONTROL MEASURES AS SHOWN ON THIS SHEET ARE TO BE USED AS A GUIDELINE ONLY. IT SHALL BE UNDERSTOOD THAT THIS SHEET IS PART OF A LARGER PROCESS OF PREVENTING SEDIMENTATION FROM LEAVING THE SITE. THIS PROCESS IS TO BE DYNAMIC IN NATURE AND THEREFORE THE CONTRACTOR SHALL LOCATE SILT FENCE, ROCK BERMS, CONSTRUCTION EXITS, SEDIMENT PONDS, ETC. AS NEEDED TO FACILITATE THE CURRENT OPERATIONS OF CONSTRUCTION OF THE PROJECT. RELOCATION OF EROSION CONTROL MEASURES SHALL BE NOTED ON THIS SHEET AND SIGNED AND DATED BY THE CONTRACTOR IN ACCORDANCE WITH WDNR GENERAL PERMITS.

2. REGARDLESS OF WHAT THIS SWPPP SITE PLAN SHOWS, THE OPERATOR IS RESPONSIBLE FOR FULLY COMPLYING WITH THE WDNR GENERAL PERMITS TO THE FULLEST EXTENT. IF CONTRACTOR HAS ANY QUESTIONS, HE SHALL CONTACT WDNR OR ENGINEER TO OBTAIN PERMIT CLARIFICATION. ANY AND ALL ADDITIONAL EROSION CONTROL MEASURES REQUIRED TO ENSURE COMPLIANCE WITH WDNR GENERAL PERMITS SHALL BE IMPLEMENTED BY THE CONTRACTOR.

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Television cables	Sanitary Sewer lines	Oil Production lines
Saltwater lines		

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

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Restaurant Support Office
6800 Bishop Road, Plano, TX 75024
Tele: 972-769-3100 Fax: 972-769-3101

Restaurant:

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WISCONSIN PROFESSIONAL ENGINEER
RYAN W. DAVIS
E-49115
MADISON
WI
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SWPPP SITE PLAN

Sheet Number:

C-3.0

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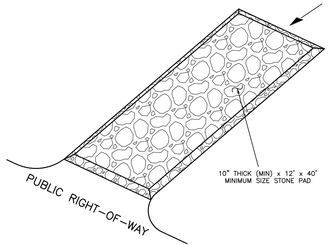


TEMPORARY CONSTRUCTION EXIT POINT DETAIL

CONSTRUCTION NOTES:

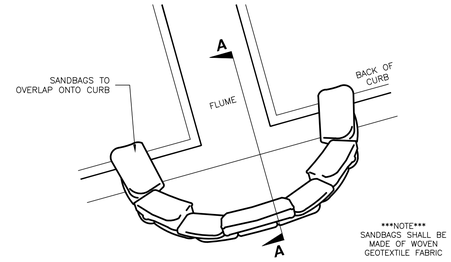
1) GRADATION OF ROCK

SIZE OF ROCK LBS.	% SMALLER BY WEIGHT
200	100
50	35-65
3	0

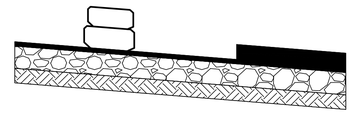
2) THE ENTRANCE SHALL BE MAINTAINED TO PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAY. THIS MAY REQUIRE DRESSING WITH ADDITIONAL STONE AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.

3) WHEN NECESSARY, WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE INTO PUBLIC RIGHT-OF-WAY. WASHING SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE WHICH DRAINS INTO AN APPROVED SEDIMENT CONTROLLING STRUCTURE. USE SAND BAGS, GRAVEL BOARDS OR OTHER APPROVED METHODS TO PREVENT SEDIMENT FROM ENTERING ANY STORM DRAIN, DITCH, OR WATER COURSE.

4) ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHT-OF-WAY MUST BE REMOVED IMMEDIATELY.



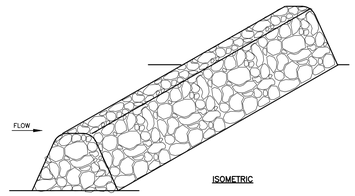
PLAN



SECTION 'A-A'

FLUME SEDIMENT BARRIER

NTS



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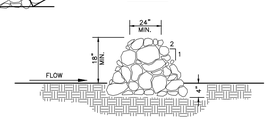

SECTION

ROCK BERM DETAILS

1. USE ONLY OPEN-GRADED ROCK, WITH MOST OF THE FINES REMOVED.
2. STONE SHALL BE CRUSHED, MIN. 3" DIAMETER, MAX. 1 CU. FT. IN VOLUME.
3. THE ROCK BERM SHALL BE EMBEDDED INTO THE SOIL A MINIMUM OF 4 INCHES.
4. INSPECT BERM AFTER EACH RAIN. REPLACE STONE WHEN THE STRUCTURE FAILS TO SERVE ITS PURPOSE DUE TO SILT ACCUMULATION, WASHOUT OR DAMAGE.
5. REMOVE SILT WHEN IT REACHES A DEPTH OF 12 INCHES, OR ONE-THIRD OF THE HEIGHT OF THE BERM, WHICHEVER IS LESS. DISPOSE OF SILT IN APPROVED LOCATIONS.
6. REMOVE BERM ONLY WHEN SITE IS COMPLETELY STABILIZED.

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Hwy 16 & Braund St
La Crosse, Wi. 54560
P4-V-AV

Designer's Information:

BENCHMARK DESIGN GROUP
CIVIL / ENVIRONMENTAL / PLANNERS
2024 REPUBLIC DRIVE, SUITE B, TROY, OHIO, 45373 - (937) 534-2200
WWW.BENCHMARK-ENGINEERS.COM

Prototype Phase:	2023
Project Issue Date:	00-00-0000
SAI Project Manager:	PDS

PERMIT SET
3-8-2024

Sheet Versions:

#	Date	Description
1	1.11.24	DESCRIPTION

Sheet Title:

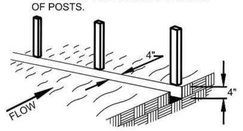
SWPPP SITE DETAILS

Sheet Number:

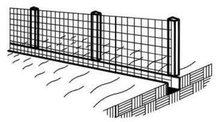
C-3.1

BDG Job Number: 2023.098

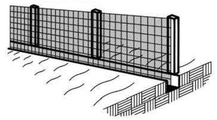
1. SET POSTS AND EXCAVATE A 4" x 4" TRENCH UPSLOPE ALONG THE LINE OF POSTS.



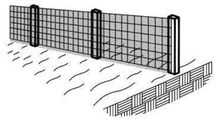
2. STAPLE WIRE FENCING TO THE POSTS.



3. ATTACH THE FILTER FABRIC TO THE WIRE FENCE AND EXTEND IT INTO THE TRENCH.



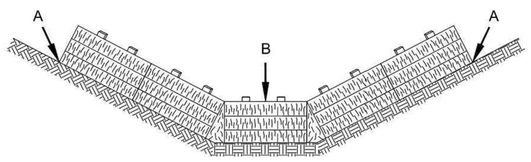
4. BACKFILL AND COMPACT THE EXCAVATED SOIL.



EXTENSION OF FABRIC & WIRE INTO TRENCH

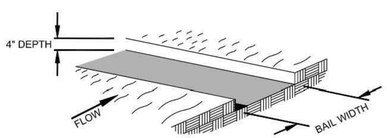
CONSTRUCTION OF A SILT FENCE
CHANNELIZED FLOW

PROPER PLACEMENT OF STRAW BALE BARRIER IN DRAINAGE WAY

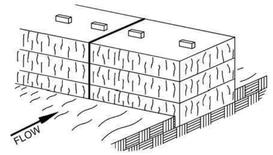


POINTS "A" SHOULD BE HIGHER THAN POINT "B"

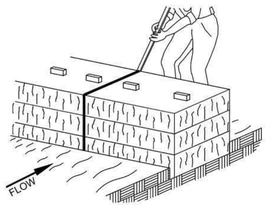
1. EXCAVATE THE TRENCH.



2. PLACE AND STAKE STRAW BALES.



3. WEDGE LOOSE STRAW BETWEEN BALES.



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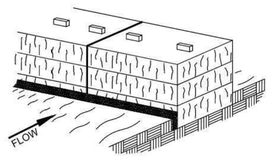
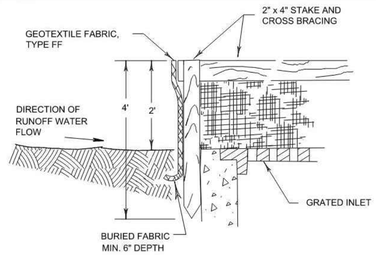
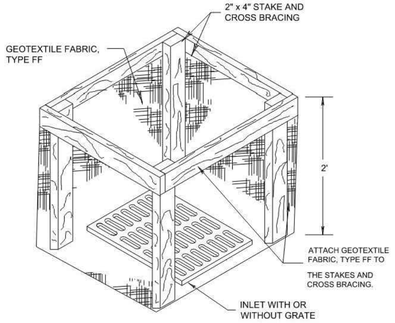
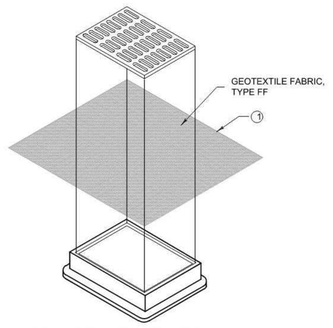


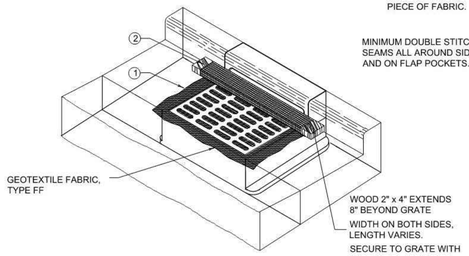




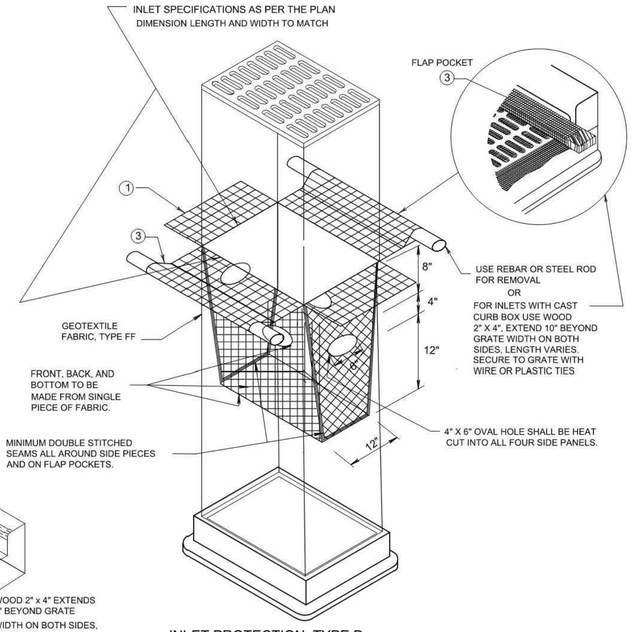
INLET PROTECTION, TYPE A



INLET PROTECTION, TYPE B
(WITHOUT CURB BOX)
(CAN BE INSTALLED IN ANY INLET WITHOUT A CURB BOX)



INLET PROTECTION, TYPE C (WITH CURB BOX)



INLET PROTECTION, TYPE D
(CAN BE INSTALLED IN ANY INLET TYPE WITH OR WITHOUT A CURB BOX AS PER NOTE) ②

GENERAL NOTES

MANUFACTURED ALTERNATIVES APPROVED AND LISTED ON THE DEPARTMENT'S EROSION CONTROL PRODUCT ACCEPTABILITY LIST MAY BE SUBSTITUTED.

WHEN REMOVING OR MAINTAINING INLET PROTECTION, CARE SHALL BE TAKEN SO THAT THE SEDIMENT TRAPPED ON THE GEOTEXTILE FABRIC DOES NOT FALL INTO THE INLET. ANY MATERIAL FALLING INTO THE INLET SHALL BE REMOVED IMMEDIATELY.

① FINISHED SIZE, INCLUDING FLAP POCKETS WHERE REQUIRED, SHALL EXTEND A MINIMUM OF 10" AROUND THE PERIMETER TO FACILITATE MAINTENANCE OR REMOVAL.

② FOR INLET PROTECTION, TYPE C (WITH CURB BOX), AN ADDITIONAL 18" OF FABRIC IS WRAPPED AROUND THE WOOD AND SECURED WITH STAPLES. THE WOOD SHALL NOT BLOCK THE ENTIRE HEIGHT OF THE CURB BOX OPENING.

③ FLAP POCKETS SHALL BE LARGE ENOUGH TO ACCEPT WOOD 2X4.

INSTALLATION NOTES

TYPE B & C

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.

THE CONTRACTOR SHALL DEMONSTRATE A METHOD OF MAINTENANCE, USING A SEWN FLAP, HAND HOLDS OR OTHER METHOD TO PREVENT ACCUMULATED SEDIMENT FROM ENTERING THE INLET.

TYPE D

DO NOT INSTALL INLET PROTECTION TYPE D IN INLETS SHALLOWER THAN 30", MEASURED FROM THE BOTTOM OF THE INLET TO THE TOP OF THE GRATE.
TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.

THE INSTALLED BAG SHALL HAVE A MINIMUM SIDE CLEARANCE, BETWEEN THE INLET WALLS AND THE BAG, MEASURED AT THE BOTTOM OF THE OVERFLOW HOLES, OF 3". WHERE NECESSARY THE CONTRACTOR SHALL CINCH THE BAG, USING PLASTIC ZIP TIES, TO ACHIEVE THE 3" CLEARANCE. THE TIES SHALL BE PLACED AT A MAXIMUM OF 4" FROM THE BOTTOM OF THE BAG.

This drawing based on Wisconsin Department of Transportation Standard Detail Drawing 8 E 10-2.

INLET PROTECTION
TYPE A, B, C, AND D

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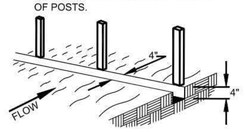

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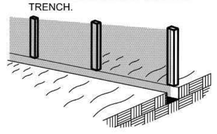

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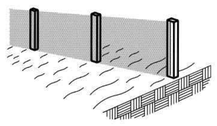
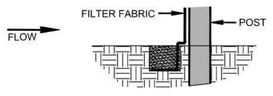
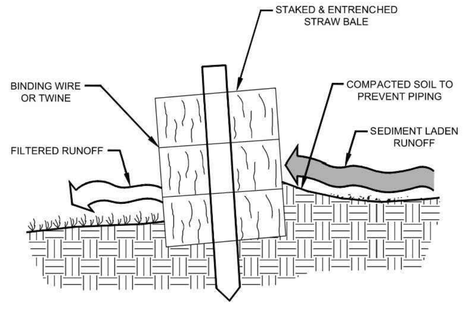


EXTENSION OF FABRIC INTO TRENCH



CONSTRUCTION OF A FILTER BARRIER



CROSS-SECTION OF A PROPERLY INSTALLED STRAW BALE

EDF #

DWG NAME: EROSION-CONTROL.DWG

PROJECT No.

EROSION CONTROL DETAILS

LOCATION

D-1-2

RESOLUTION

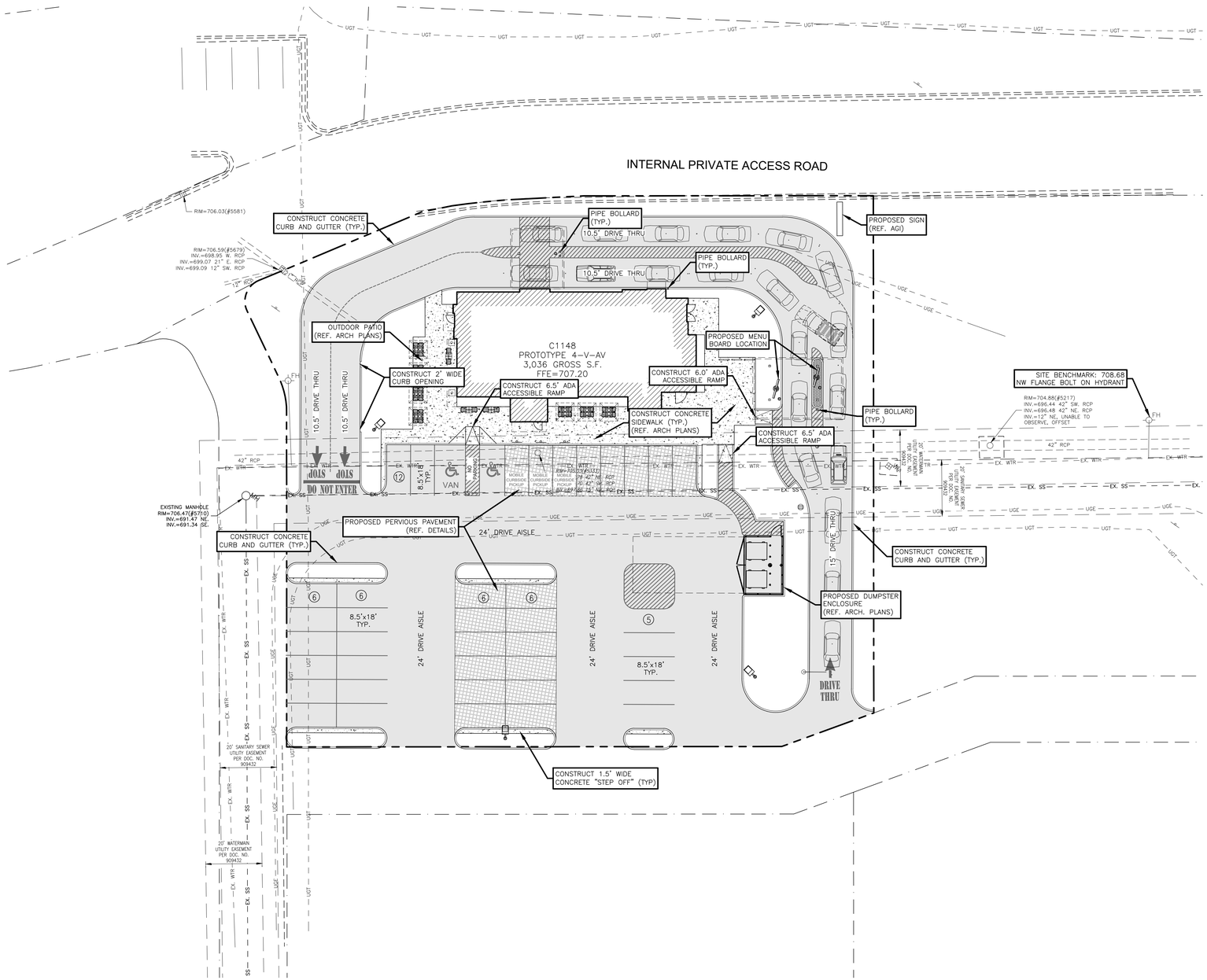
DATE

ENGINEERING DEPT.
City of La Crosse, Wis.

			BY	DATE
FIELD BOOK	SURVEYED		-	
	DRAWN	PRELIMINARY	-	
NUMBER		FINAL	JMC	2/2009
	CHECKED			
	APPROVED			
PAGE	REVISIONS			

SHEET NO.

TOTAL SHEETS



GRAPHIC SCALE

0 20 40 60 FEET

LEGEND

TEL PED	EXISTING TELEPHONE PEDESTAL
C.O.o	EXISTING CLEANOUT
WV	EXISTING WATER VALVE
WM	EXISTING WATER METER
MH	EXISTING SAN. SEWER MANHOLE
PP	EXISTING POWER POLE
FH	EXISTING FIRE HYDRANT
	PROPOSED LP
OHE	EXISTING OVERHEAD ELECTRIC LINE
EX. WTR	EXISTING WATER LINE
EX. SS	EXISTING SAN. SEWER LINE
	PROPERTY LINE
(XX)	PARKING SPACE COUNT
	PROPOSED "LEVEL" LANDING (SLOPE OF LANDING SHALL NOT EXCEED 2% IN ANY DIRECTION)

SITE NOTES:

1. CONTRACTOR SHALL REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATION AND DIMENSIONS OF SLOPED PAVING, EXIT PORCHES, PRECISE BUILDING DIMENSIONS, EXACT BUILDING ENTRANCE LOCATIONS, TOTAL NUMBER, LOCATIONS, SIZES AND OUTFALLS OF ROOF DOWNSPOUTS.
2. ALL SIGNS PLACED IN AREAS ACCESSIBLE BY VEHICLE TRAFFIC SHALL BE PLACED IN GUARD POST.
3. ALL TRAFFIC CONTROL SIGNS SHALL BE FABRICATED AS SHOWN IN THE NATIONAL MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS.
4. ALL CURB RADII SHOWN ARE TO FACE OF CURB.
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6. CONTRACTOR IS RESPONSIBLE FOR PROTECTION & REPLACEMENT OF ALL PROPERTY CORNERS.
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11. ALL PAVEMENT MARKING PAINT SHALL BE SHERWIN WILLIAMS "PROMAR TRAFFIC MARKING", WHITE ON ASPHALT, YELLOW ON CONCRETE. PAINT SHALL BE APPLIED IN TWO COATS TO A CLEAN, DRY SURFACE USING TEMPLATE OR STRIPING MACHINE. STRIPES SHALL BE 4" WIDE UNLESS OTHERWISE INDICATED.
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13. FOR SITE UTILITIES, SEE UTILITY PLAN.
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SITE PLAN INFORMATION

TOTAL LOT AREA: 0.92 ACRES
BUILDING AREA: 3,036 SF
EXISTING IMPERVIOUS COVER: 32,348 SF
PROPOSED IMPERVIOUS COVER: 32,147 SF

PARKING
TOTAL BUILDING AREA = 3,036 SF
RESTAURANT @ 1 SPACE PER 150 SF OF 3,036 SF = 20 SPACES

	REQUIRED	PROVIDED
TOTAL PARKING	20 SPACES	41 SPACES

NOTICE TO CONTRACTORS

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3. The contractor shall notify the engineer, in writing, of any errors or discrepancies discovered in the construction documents immediately.
4. The topographic information shown hereon is a reflection of the information provided by **CHAPUT LAND SURVEYS**
   If the contractor discovers any errors in said information, he shall notify the engineer, in writing, immediately. The engineer and owner shall be indemnified of any problems and/or associated costs resulting from lack of notification.
5. The contractor shall be responsible for confirming the horizontal and vertical location of buried utilities and structures, including, but not limited to the following:

   Telephone cable — Conduits — Pipes
   Stormsewer lines — Water lines — Gas lines
   Television cables — Sanitary Sewer lines — Oil Production lines
   Saltwater lines

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Raising Cane's CHICKEN FINGERS
Restaurant Support Office
6800 Bishop Road, Plano, TX 75024
Tele: 972-769-3100 Fax: 972-769-3101

Restaurant:

Raising Cane's
Restaurant #C1148
Hwy 16 & Braund St
La Crosse, Wi. 54560
P4-V-AV

Designer's Information:

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CIVIL / ENVIRONMENTAL / PLANNERS
2024 REPUBLIC DRIVE, SUITE B, TYLER (TEXAS) 75703 - (903) 534-3300
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PERMIT SET
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WISCONSIN PROFESSIONAL ENGINEER
RYAN W. DAVIS
E-49115
MADISON
WI
3-8-2024
EXP. 7/31/2024

Sheet Versions:

#	Date	Description
1	1.11.24	DESCRIPTION

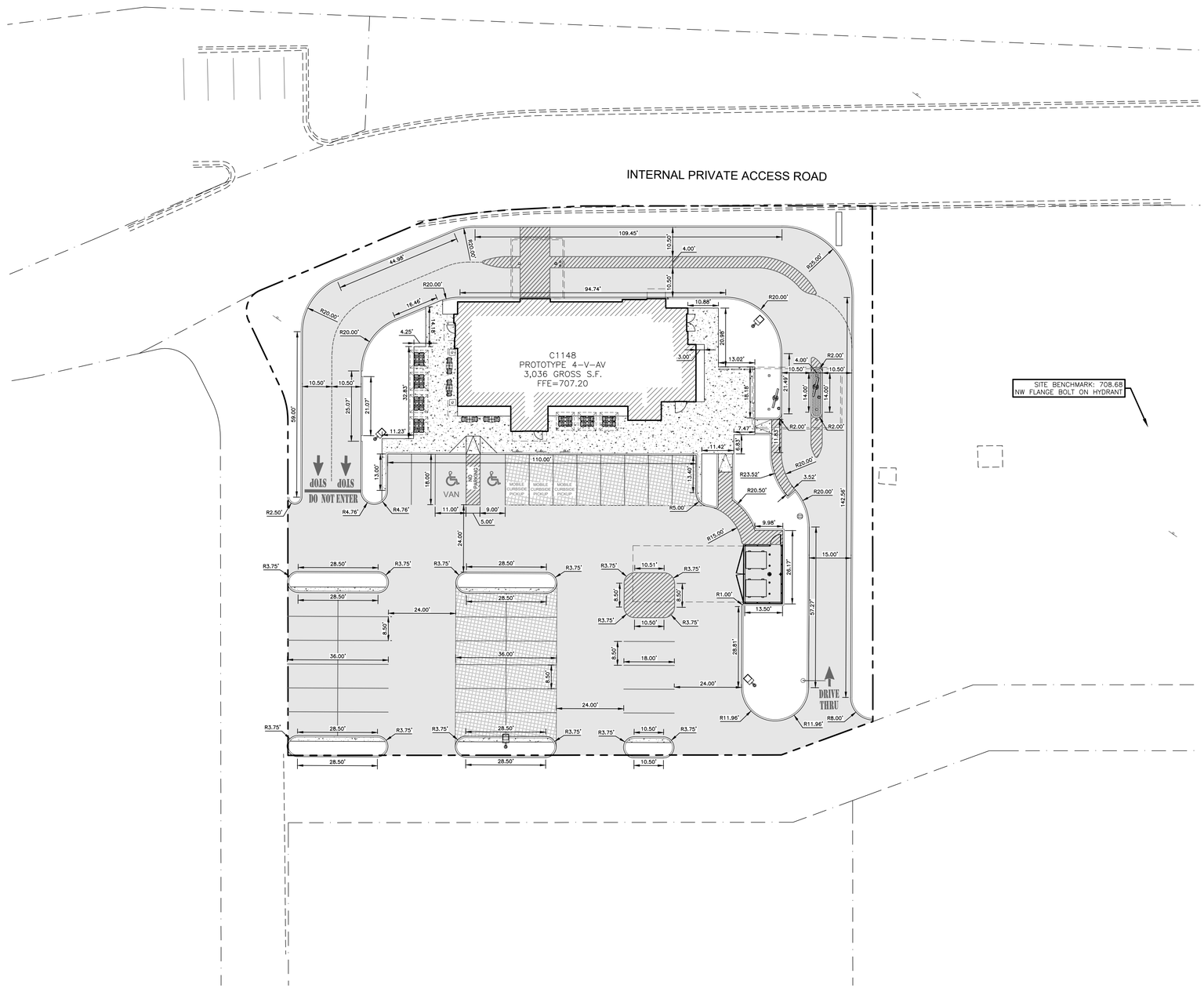
Sheet Title:

SITE KEYNOTE PLAN

Sheet Number:

C-5.0

BDG Job Number: 2023.098



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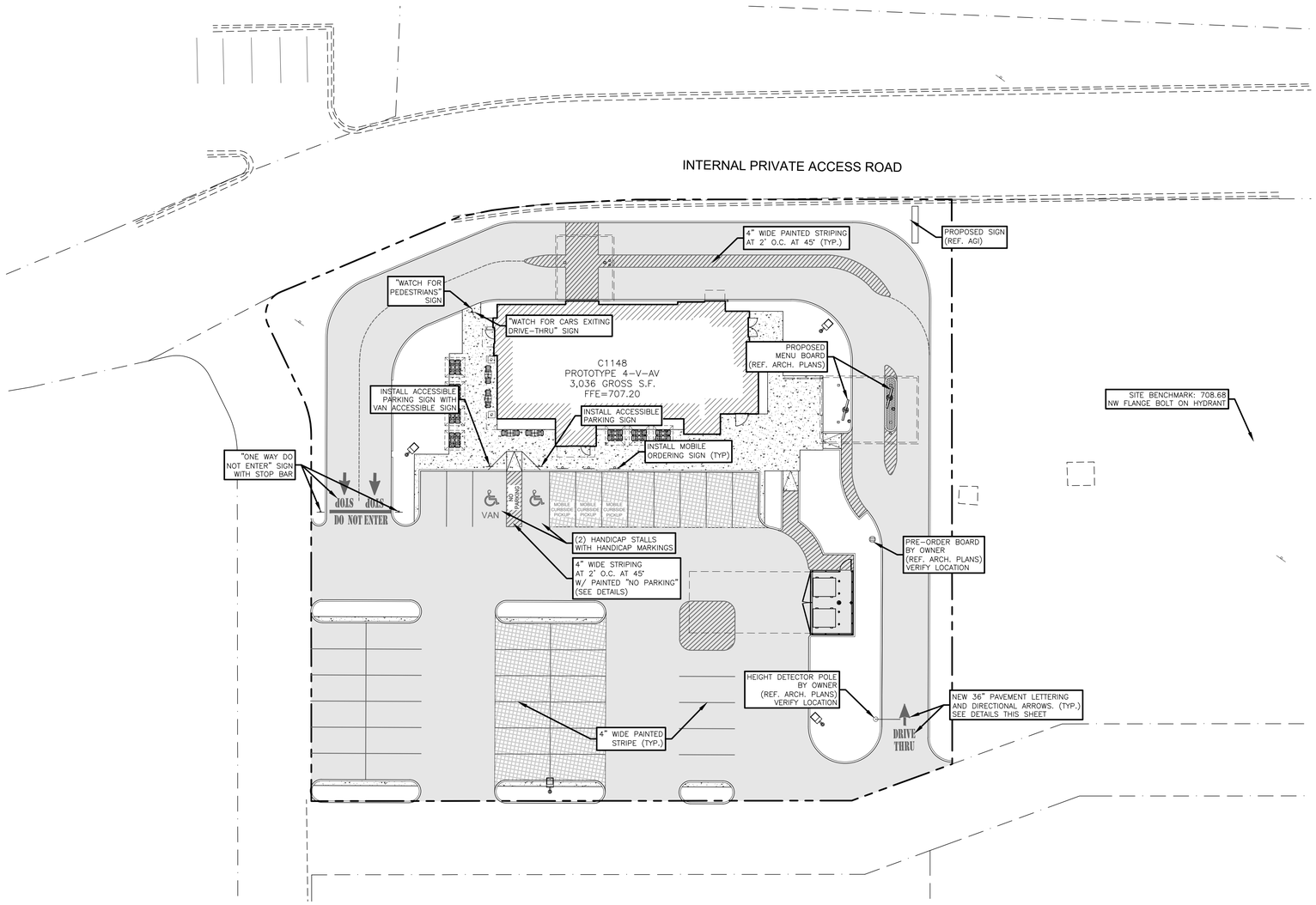
Sheet Title:

DIMENSIONAL CONTROL PLAN

Sheet Number:

C-5.1

BDG Job Number: 2023.098



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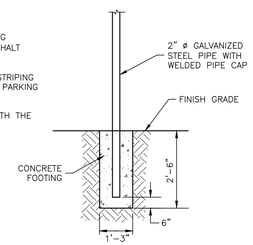
Know what's below. Call before you dig. 811

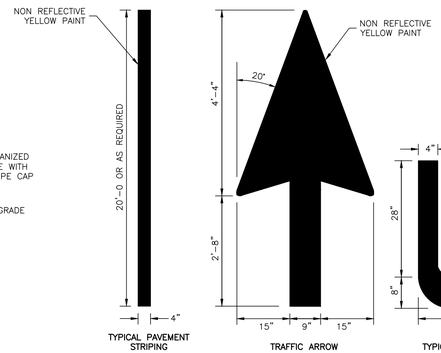
PARKING LOT NOTES:

1. PARKING STALLS MUST BE STRIPED WITH A 4 INCH CONTRASTING STRIPE (YELLOW ON CONCRETE AND YELLOW OR WHITE ON ASPHALT PARKING LOT).
2. HANDICAP PARKING SPACES ARE TO BE DESIGNATED BY BLUE STRIPING & A WHITE SYMBOL ON A BLUE BACKGROUND. ALL HANDICAP PARKING STALLS REQUIRE THE INSTALLATION OF THE PROPER SIGNAGE.
3. ALL PARKING SPACES ARE TO BE LAID OUT IN ACCORDANCE WITH THE TYPICAL DETAIL AS SHOWN ON THIS PLAN UNLESS OTHERWISE INDICATED ON THIS PLAN.



PARKING LOT SIGNAGE FOOTING

SCALE: NTS

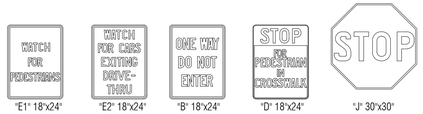


TYPICAL PAVEMENT MARKINGS

SCALE: NTS

NOTE:
PAINT SHALL BE APPLIED AT A THICKNESS OF 22 WET MILS AND 15 DRY MILS

CONTRACTOR TO VERIFY SIGNS AND SIGN LOCATIONS WITH OWNER PRIOR TO INSTALLATION



STANDARD PARKING LOT SIGNS

SCALE: NTS

NOTICE TO CONTRACTORS

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5. The contractor shall be responsible for confirming the horizontal and vertical location of buried utilities and structures, including, but not limited to the following:

Telephone cable	Conduits	Pipes
Stormsewer lines	Water lines	Gas lines
Television cables	Sanitary Sewer lines	Oil Production lines
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Note: If discrepancies occur between that which is shown on the plans and conditions present in the field, the contractor shall notify the engineer, in writing immediately. Failure to do so shall absolve owner and engineer of liability and associated costs.

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Restaurant:

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Restaurant #C1148
Hwy 16 & Braund St
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P4-V-AV

Designer's Information:

BENCHMARK DESIGN GROUP
CIVIL / ENVIRONMENTAL / PLANNERS
2024 REPUBLIC DRIVE, SUITE B, TROY, OHIO, 45373 - (765) 334-3300
WWW.BENCHMARK-ENGINEERS.COM

Prototype Phase:	2023
Project Issue Date:	00-00-0000
SAI Project Manager:	PDS

PERMIT SET
3-8-2024

WISCONSIN PROFESSIONAL ENGINEER
RYAN W. DAVIS
E-49115
MADISON
WI
3-8-2024
EXP. 1/31/2024

Sheet Versions:

#	Date	Description
1	1.11.24	DESCRIPTION

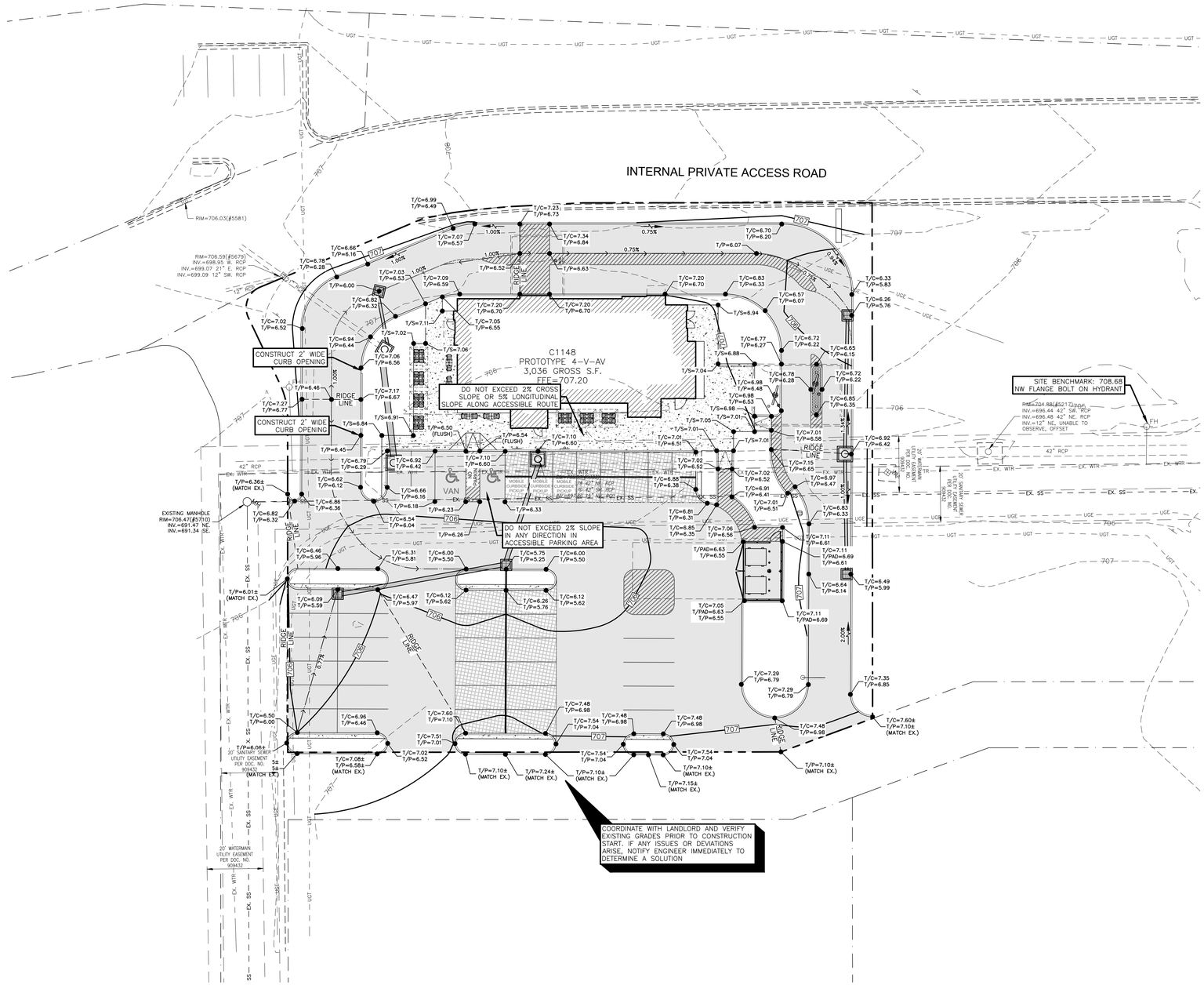
Sheet Title:

STRIPING AND SIGNAGE PLAN

Sheet Number:

C-5.2

BDG Job Number: 2023.098



GRADING NOTES:

1. THE EARTHWORK FOR ALL BUILDING FOUNDATIONS AND SLABS SHALL BE IN ACCORDANCE WITH GEOTECHNICAL REPORT.
2. ADJUST PAVEMENT AND/OR CURB ELEVATIONS AS NECESSARY TO ASSURE A SMOOTH FIT & CONTINUOUS GRADE WITH EXISTING.
3. CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL UTILITIES AND NOTIFYING THE APPROPRIATE UTILITY COMPANY PRIOR TO BEGINNING CONSTRUCTION.
4. CONTRACTOR SHALL VERIFY HORIZONTAL AND VERTICAL LOCATION OF ALL EXISTING STORM SEWER STRUCTURES, PIPES, AND ALL UTILITIES PRIOR TO CONSTRUCTION.
5. CONTRACTOR IS RESPONSIBLE FOR REPAIRS OF DAMAGE TO ANY EXISTING IMPROVEMENTS DURING CONSTRUCTION, SUCH AS, BUT NOT LIMITED TO DRAINAGE, UTILITIES, PAVEMENT, STRIPING, CURBS, ETC. REPAIRS SHALL BE EQUAL TO OR BETTER THAN EXISTING CONDITIONS.
6. EXISTING GRADE CONTOURS INTERVAL SHOWN AT ONE FOOT (1').
7. PROPOSED GRADE CONTOURS INTERVAL SHOWN AT ONE FOOT (1').
8. ALL UNSURFACED AREAS DISTURBED BY GRADING OPERATION SHALL RECEIVE FOUR (4) INCHES OF TOPSOIL. CONTRACTOR SHALL APPLY STABILIZATION FABRIC TO ALL SLOPES STEEPER THAN 3H:1V. ALL LANDSCAPING TO BE PER LANDSCAPE PLANS AND SPECIFICATIONS AND/OR AS DIRECTED BY OWNER.
9. FOR LOCATION OF ALL UTILITY ENTRANCES, SEE M.E.P. PLANS AND SPECIFICATIONS.
10. CONTRACTOR SHALL COORDINATE WITH ARCHITECTURAL PLANS, POWER COMPANY, TELEPHONE COMPANY AND GAS CO. FOR ACTUAL ROUTING OF POWER AND SERVICES TO BUILDING.
11. CONSTRUCTION SHALL COMPLY WITH ALL GOVERNING CODES AND BE CONSTRUCTED TO SAME.
12. ALL SPOT GRADES AND CONTOURS ARE TO FINISHED GRADE UNLESS OTHERWISE NOTED. FINISHED GRADE IS TO INCLUDE 4" TOPSOIL IN LANDSCAPED AREAS.
13. CONTRACTOR SHALL COMPLY TO THE FULLEST EXTENT WITH THE LATEST STANDARDS OF OSHA DIRECTIVES OR ANY OTHER AGENCY HAVING JURISDICTION FOR EXCAVATION AND TRENCHING PROCEDURE. CONTRACTOR SHALL USE SUPPORT SYSTEMS, SLOPING, BENCHING, AND OTHER MEANS OF PROTECTION. THIS IS TO INCLUDE, BUT NOT LIMITED TO, ACCESS AND EGRESS FROM ALL EXCAVATION AND TRENCHING. CONTRACTOR IS RESPONSIBLE TO COMPLY WITH PERFORMANCE CRITERIA FOR OSHA.

LEGEND

TEL PED	EXISTING TELEPHONE PEDESTAL
C.O.	EXISTING CLEANOUT
WV	EXISTING WATER VALVE
WM	EXISTING WATER METER
MH	EXISTING SAN. SEWER MANHOLE
PP	EXISTING POWER POLE
FH	EXISTING FIRE HYDRANT
OHE	EXISTING OVERHEAD ELECTRIC LINE
EX. WTR	EXISTING WATER LINE
EX. SS	EXISTING SAN. SEWER LINE
	PROPERTY LINE
534	EXISTING 1' CONTOUR
535	EXISTING 5' CONTOUR
534	PROPOSED 1' CONTOUR
535	PROPOSED 5' CONTOUR
T/C=536.91 T/P=536.41	PROPOSED SPOT GRADE
	T/C = TOP OF CURB
	T/P = TOP OF PAVEMENT
	T/S = TOP OF SIDEWALK
	F/G = FINISHED GRADE
	PROPOSED "LEVEL" LANDING (SLOPE OF LANDING SHALL NOT EXCEED 2% IN ANY DIRECTION)

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2024 REPUBLIC DRIVE, SUITE B | MOUNT PLEASANT, WI 53403 | (262) 554-3300
WWW.BENCHMARK-ENGINEERS.COM

Prototype Phase:	2023
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SAI Project Manager:	PDS

PERMIT SET
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Sheet Versions:

#	Date	Description
1	1.11.24	DESCRIPTION

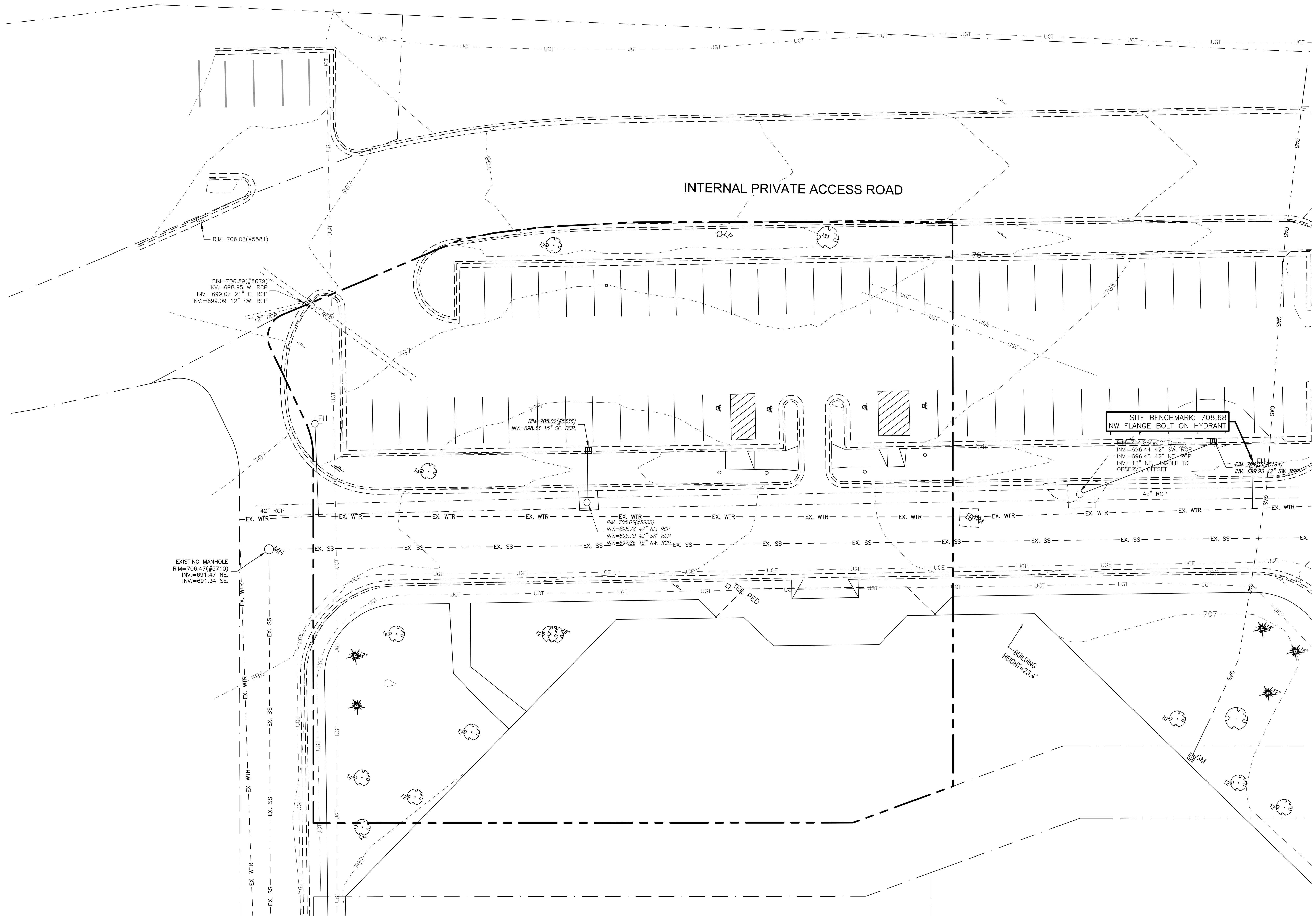
Sheet Title:

GRADING PLAN

Sheet Number:

C-6.0

BDG Job Number: 2023.098



GRAPHIC SCALE

0 20 40 60 FEET

LEGEND

Symbol	Description
TEL PED □	EXISTING TELEPHONE PEDESTAL
C.O.○	EXISTING CLEANOUT
WV	EXISTING WATER VALVE
WM	EXISTING WATER METER
MH	EXISTING SAN. SEWER MANHOLE
PP	EXISTING POWER POLE
FH	EXISTING FIRE HYDRANT
— — — OHE — — —	EXISTING OVERHEAD ELECTRIC LINE
— — — EX. WTR — — —	EXISTING WATER LINE
— — — EX. SS — — —	EXISTING SAN. SEWER LINE
——— — — ———	PROPERTY LINE
— — — 2881 — — —	EXISTING 1' CONTOUR
—— 2880 ——	EXISTING 5' CONTOUR
➡	EXISTING DRAINAGE PATTERN
■ ■ ■ ■	EXISTING DRAINAGE DELINEATION
X	= DRAINAGE AREA NUMBER
X.XX	= DRAINAGE AREA (AC.)
X.XX	= 100-YR RUNOFF (CFS)

Hydrograph by Return Period

Hydrology Studio v 1.0.0.0

Project Name:

02-27-2024

Hyd. No.	Hydrograph Type	Hydrograph Name	Peak Outflow (cfs)							
			1-yr	2-yr	3-yr	5-yr	10-yr	25-yr	50-yr	100-yr
1	NRCS Runoff	Pre DA 2	0.815	0.958		1.220	1.470	1.856	2.188	2.550
2	NRCS Runoff	Pre DA 3	0.226	0.264		0.334	0.401	0.504	0.593	0.690
3	NRCS Runoff	Pre DA 4	0.149	0.182		0.244	0.303	0.395	0.473	0.559
4	NRCS Runoff	Pre DA 5	1.291	1.509		1.910	2.292	2.883	3.390	3.944
5	NRCS Runoff	Pre DA 6	0.331	0.385		0.484	0.579	0.726	0.852	0.990
6	NRCS Runoff	Post DA 1	0.345	0.405		0.516	0.622	0.785	0.926	1.079
7	NRCS Runoff	Post DA 2	0.678	0.792		1.003	1.204	1.513	1.780	2.071
8	NRCS Runoff	Post DA 3	0.226	0.264		0.334	0.401	0.504	0.593	0.690
9	NRCS Runoff	Post DA 4	1.390	1.624		2.054	2.466	3.100	3.645	4.241
10	NRCS Runoff	Post DA 5	0.176	0.209		0.270	0.329	0.419	0.496	0.580
11	NRCS Runoff	Pre DA 1	0.088	0.105		0.135	0.164	0.209	0.248	0.290
12	NRCS Runoff	Post DA 6	0.078	0.099		0.138	0.177	0.238	0.291	0.349
13	Junction	Pre OVERALL	2.900	3.402		4.327	5.209	6.572	7.744	9.023
14	Junction	Post OVERALL	2.892	3.393		4.315	5.197	6.559	7.730	9.009

Tc (min)	Intensity Values (in/hr)							
	1-yr	2-yr	3-yr	5-yr	10-yr	25-yr	50-yr	100-yr
Cf	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
5	4.61	5.40	0	6.70	7.77	9.31	10.49	11.70
10	3.45	4.02	0	5.01	5.81	6.93	7.80	8.68
15	2.81	3.28	0	4.10	4.75	5.68	6.39	7.11
20	2.40	2.81	0	3.51	4.07	4.87	5.50	6.12
25	2.11	2.47	0	3.09	3.60	4.31	4.87	5.43
30	1.89	2.22	0	2.78	3.24	3.89	4.40	4.91
35	1.72	2.02	0	2.54	2.96	3.56	4.03	4.51
40	1.58	1.87	0	2.34	2.74	3.29	3.74	4.18
45	1.47	1.74	0	2.18	2.55	3.07	3.49	3.91
50	1.37	1.63	0	2.04	2.39	2.89	3.28	3.68
55	1.29	1.53	0	1.92	2.26	2.73	3.10	3.48
60	1.22	1.45	0	1.82	2.14	2.59	2.95	3.31

**INTENSITIES WERE GENERATED FROM NOAA ATLAS 14 PRECIPITATION AND IDF CURVE DATA

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P4-V-AV

Designer's Information:

BENCHMARK DESIGN GROUP
CIVIL / ENVIRONMENTAL / PLANNERS

Prototype Phase: 2023

Project Issue Date: 00-00-0000

SAI Project Manager: PDS

PERMIT SET
3-8-2024

WISCONSIN
RYAN W. DAVIS
E-49115
MADISON
WI
PROFESSIONAL ENGINEER
3-8-2024
EXP. 1/31/2024

Sheet Versions:

#	Date	Description
1	1.11.24	DESCRIPTION

Sheet Title:

PREDEVELOPED DRAINAGE PLAN

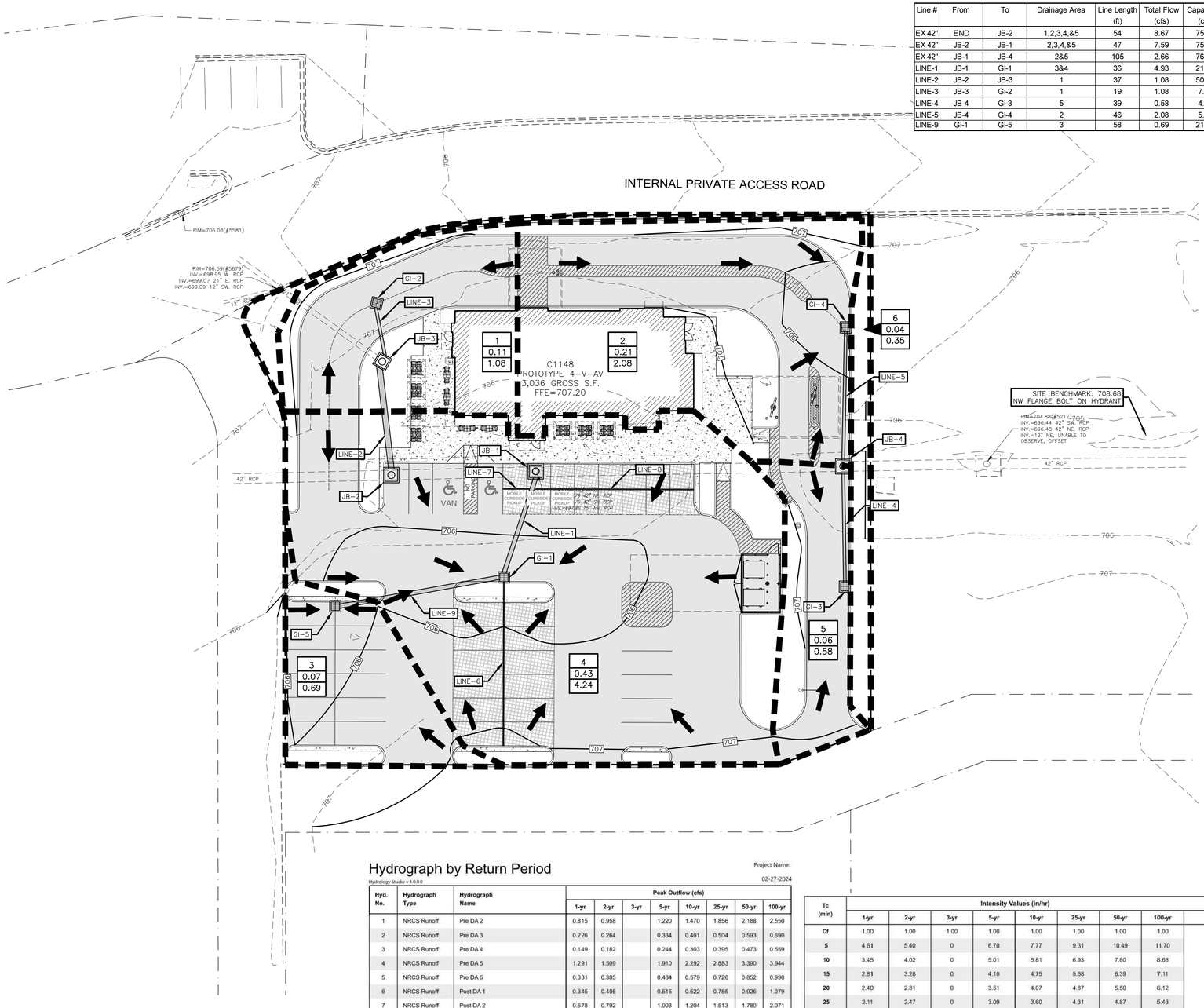
Sheet Number:

C-6.1

BDG Job Number: 2023.098

STORM SEWER SUMMARY

Line #	From	To	Drainage Area	Line Length (ft)	Total Flow (cfs)	Capac Full (cfs)	Veloc (ft/s)	Pipe Size (in)	Pipe Slope (%)	Inv Elev Dn (ft)	Inv Elev Up (ft)	HGL Dn (ft)	HGL Up (ft)
EX 42"	END	JB-2	1,2,3,4,&5	54	8.67	75.90	4.58	42	0.41	695.29	695.51	696.15	696.41
EX 42"	JB-2	JB-1	2,3,4,&5	47	7.59	75.60	3.52	42	0.40	695.51	695.70	696.62	696.56
EX 42"	JB-1	JB-4	2&5	105	2.66	76.09	1.57	42	0.41	695.78	696.21	696.88	696.87
LINE-1	JB-1	GI-1	3&4	36	4.93	21.50	6.19	18	3.00	697.70	698.78	698.29	699.63
LINE-2	JB-2	JB-3	1	37	1.08	50.10	3.91	24	3.51	697.01	698.31	697.25	698.68
LINE-3	JB-3	GI-2	1	19	1.08	7.29	4.20	12	3.00	699.31	699.88	699.62	700.32
LINE-4	JB-4	GI-3	5	39	0.58	4.21	3.03	12	1.00	698.71	699.10	698.98	699.42
LINE-5	JB-4	GI-4	2	46	2.08	5.95	5.10	12	2.00	698.71	699.63	699.16	700.24
LINE-9	GI-1	GI-5	3	58	0.69	21.50	1.49	18	3.00	698.78	700.52	699.98	700.84



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	PROPOSED DRAINAGE PATTERN
	PROPOSED DRAINAGE DELINEATION

X = DRAINAGE AREA NUMBER
X.XX = DRAINAGE AREA (AC.)
X.XX = 100-YR RUNOFF (CFS)

Hydrograph by Return Period

Hydrology Studio v 1.0.0.0

Project Name:
02-27-2024

Hyd. No.	Hydrograph Type	Hydrograph Name	Peak Outflow (cfs) 1-yr	2-yr	3-yr	5-yr	10-yr	25-yr	50-yr	100-yr
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Tc (min)	Intensity Values (in/hr) 1-yr	2-yr	3-yr	5-yr	10-yr	25-yr	50-yr	100-yr
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30	1.89	2.22	0	2.78	3.24	3.89	4.40	4.91
35	1.72	2.02	0	2.54	2.96	3.56	4.03	4.51
40	1.58	1.87	0	2.34	2.74	3.29	3.74	4.18
45	1.47	1.74	0	2.18	2.55	3.07	3.49	3.91
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Prototype Phase: 2023

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SAI Project Manager: PDS

PERMIT SET
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Sheet Versions:

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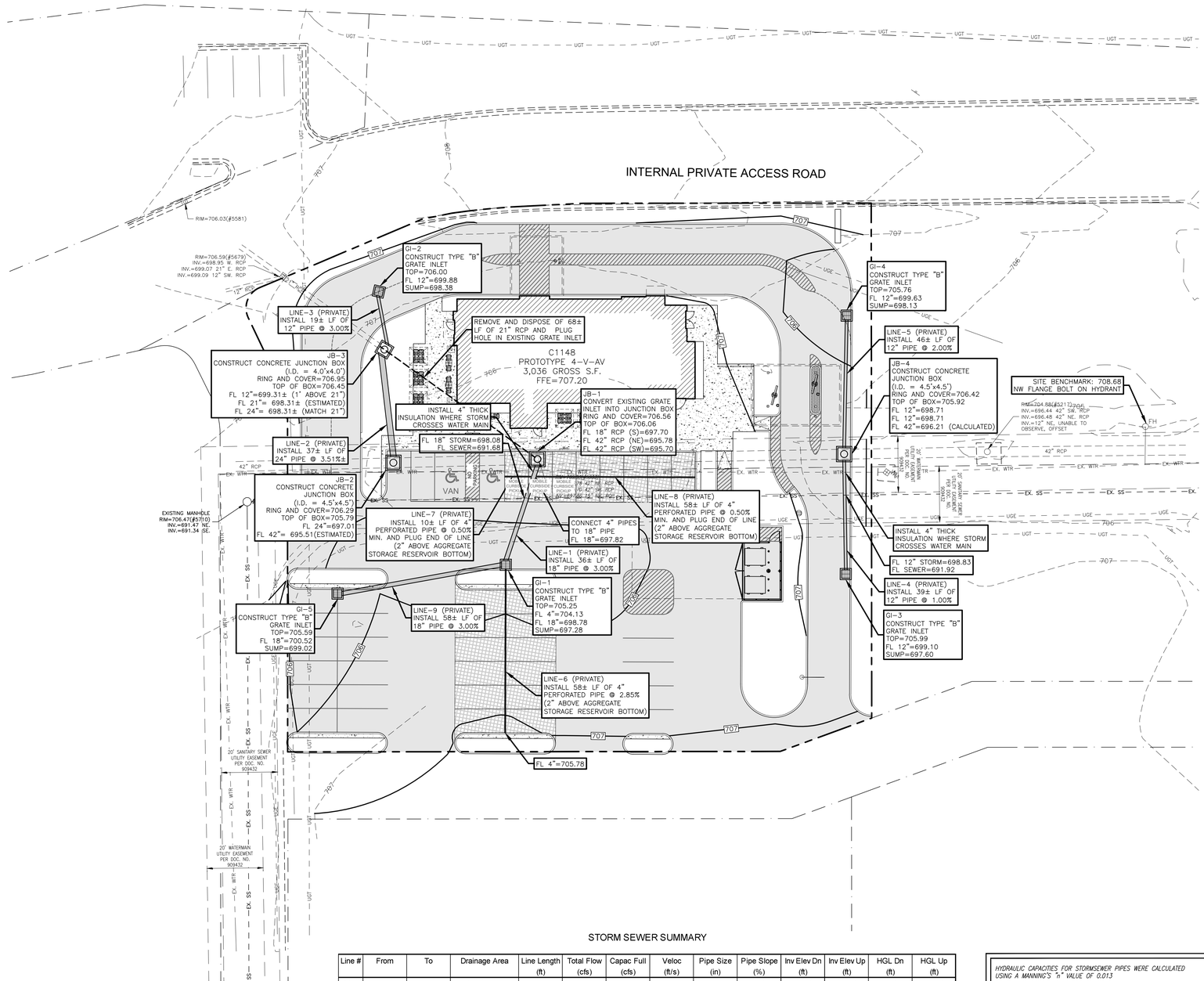
Sheet Title:

POSTDEVELOPED DRAINAGE PLAN

Sheet Number:

C-6.2

BDG Job Number: 2023.098



GRADING NOTES:

1. THE EARTHWORK FOR ALL BUILDING FOUNDATIONS AND SLABS SHALL BE IN ACCORDANCE WITH GEOTECHNICAL REPORT.
2. ADJUST PAVEMENT AND/OR CURB ELEVATIONS AS NECESSARY TO ASSURE A SMOOTH FIT & CONTINUOUS GRADE WITH EXISTING.
3. CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL UTILITIES AND NOTIFYING THE APPROPRIATE UTILITY COMPANY PRIOR TO BEGINNING CONSTRUCTION.
4. CONTRACTOR SHALL VERIFY HORIZONTAL AND VERTICAL LOCATION OF ALL EXISTING STORM SEWER STRUCTURES, PIPES, AND ALL UTILITIES PRIOR TO CONSTRUCTION.
5. CONTRACTOR IS RESPONSIBLE FOR REPAIRS OF DAMAGE TO ANY EXISTING IMPROVEMENTS DURING CONSTRUCTION, SUCH AS, BUT NOT LIMITED TO DRAINAGE, UTILITIES, PAVEMENT, STRIPING, CURBS, ETC. REPAIRS SHALL BE EQUAL TO OR BETTER THAN EXISTING CONDITIONS.
6. EXISTING GRADE CONTOURS INTERVAL SHOWN AT ONE FOOT (1').
7. PROPOSED GRADE CONTOURS INTERVAL SHOWN AT ONE FOOT (1').
8. ALL UNSURFACED AREAS DISTURBED BY GRADING OPERATION SHALL RECEIVE FOUR (4) INCHES OF TOPSOIL. CONTRACTOR SHALL APPLY STABILIZATION FABRIC TO ALL SLOPES STEEPER THAN 3H:1V. ALL LANDSCAPING TO BE PER LANDSCAPE PLANS AND SPECIFICATIONS AND/OR AS DIRECTED BY OWNER.
9. FOR LOCATION OF ALL UTILITY ENTRANCES, SEE M.E.P. PLANS AND SPECIFICATIONS.
10. CONTRACTOR SHALL COORDINATE WITH ARCHITECTURAL PLANS, POWER COMPANY, TELEPHONE COMPANY AND GAS CO. FOR ACTUAL ROUTING OF POWER AND SERVICES TO BUILDING.
11. CONSTRUCTION SHALL COMPLY WITH ALL GOVERNING CODES AND BE CONSTRUCTED TO SAME.
12. ALL SPOT GRADES AND CONTOURS ARE TO FINISHED GRADE UNLESS OTHERWISE NOTED. FINISHED GRADE IS TO INCLUDE 4" TOPSOIL IN LANDSCAPED AREAS.
13. CONTRACTOR SHALL COMPLY TO THE FULLEST EXTENT WITH THE LATEST STANDARDS OF OSHA DIRECTIVES OR ANY OTHER AGENCY HAVING JURISDICTION FOR EXCAVATION AND TRENCHING PROCEDURE. CONTRACTOR SHALL USE SUPPORT SYSTEMS, SLOPING, BENCHING, AND OTHER MEANS OF PROTECTION. THIS IS TO INCLUDE, BUT NOT LIMITED TO, ACCESS AND EGRESS FROM ALL EXCAVATION AND TRENCHING. CONTRACTOR IS RESPONSIBLE TO COMPLY WITH PERFORMANCE CRITERIA FOR OSHA.

LEGEND

- TEL PED — EXISTING TELEPHONE PEDESTAL
- C.O. — EXISTING CLEANOUT
- WV — EXISTING WATER VALVE
- WM — EXISTING WATER METER
- MH — EXISTING SAN. SEWER MANHOLE
- PP — EXISTING POWER POLE
- FH — EXISTING FIRE HYDRANT
- OHE — EXISTING OVERHEAD ELECTRIC LINE
- EX. WTR — EXISTING WATER LINE
- EX. SS — EXISTING SAN. SEWER LINE
- PROPERTY LINE
- 534 — EXISTING 1' CONTOUR
- 535 — EXISTING 5' CONTOUR
- 534 — PROPOSED 1' CONTOUR
- 535 — PROPOSED 5' CONTOUR
- T/C=536.91, T/P=536.41 — PROPOSED SPOT GRADE
- T/C = TOP OF CURB
- T/P = TOP OF PAVEMENT
- T/S = TOP OF SIDEWALK
- F/G = FINISHED GRADE
- PROPOSED "LEVEL" LANDING (SLOPE OF LANDING SHALL NOT EXCEED 2% IN ANY DIRECTION)

STORM SEWER SUMMARY

Line #	From	To	Drainage Area	Line Length (ft)	Total Flow (cfs)	Capac Full (cfs)	Veloc (ft/s)	Pipe Size (in)	Pipe Slope (%)	Inv Elev Dn (ft)	Inv Elev Up (ft)	HGL Dn (ft)	HGL Up (ft)
EX 42"	END	JB-2	1,2,3,4,&5	54	8.67	75.90	4.58	42	0.41	695.29	695.51	696.15	696.41
EX 42"	JB-2	JB-1	2,3,4,&5	47	7.59	75.60	3.52	42	0.40	695.51	695.70	696.62	696.56
EX 42"	JB-1	JB-4	2&5	105	2.66	76.09	1.57	42	0.41	695.78	696.21	696.88	696.87
LINE-1	JB-1	GI-1	3&4	36	4.93	21.50	6.19	18	3.00	697.70	698.78	698.29	699.63
LINE-2	JB-2	JB-3	1	37	1.08	50.10	3.91	24	3.51	697.01	698.31	697.25	698.68
LINE-3	JB-3	GI-2	1	19	1.08	7.29	4.20	12	3.00	699.31	699.88	699.62	700.32
LINE-4	JB-4	GI-3	5	39	0.58	4.21	3.03	12	1.00	698.71	699.10	698.98	699.42
LINE-5	JB-4	GI-4	2	46	2.08	5.95	5.10	12	2.00	698.71	699.63	699.16	700.24
LINE-9	GI-1	GI-5	3	58	0.69	21.50	1.49	18	3.00	698.78	700.52	699.98	700.84

HYDRAULIC CAPACITIES FOR STORMSEWER PIPES WERE CALCULATED USING A MANNING'S "n" VALUE OF 0.013

A PARTIAL LIST OF ACCEPTABLE STORMSEWER PIPES CAPABLE OF PROVIDING THE REQUIRED HYDRAULIC EFFICIENCY FOR THIS APPLICATION ARE AS FOLLOWS:

A.) CONTECH "A-2000" PVC STORMSEWER PIPE

B.) ADS "N-12" HP STORMSEWER PIPE

C.) HANSON CONCRETE REINFORCED CONCRETE PIPE

** CONTRACTOR SHALL FOLLOW MANUFACTURER'S RECOMMENDATIONS FOR PROPER PIPE INSTALLATION AND EMBEDMENT*

ALL PIPES MAY BE ONE OF THE ABOVE STATED CHOICES, UNLESS OTHERWISE SPECIFICALLY NOTED ON PLANS. CONTRACTOR SHALL COORDINATE WITH THE ENGINEER PRIOR TO SUBSTITUTING OR ORDERING ALTERNATE PIPE AND FITTINGS

NOTICE TO CONTRACTORS

1. These plans are subject to review and approval by all jurisdictions having authority.
2. Contractor shall appropriately notify all relevant entities prior to digging on this project.
3. The contractor shall notify the engineer, in writing, of any errors or discrepancies discovered in the construction documents immediately.
4. The topographic information shown hereon is a reflection of the information provided by **CHAPUT LAND SURVEYS**
   If the contractor discovers any errors in said information, he shall notify the engineer, in writing, immediately. The engineer and owner shall be indemnified of any problems and/or associated costs resulting from lack of notification.
5. The contractor shall be responsible for confirming the horizontal and vertical location of buried utilities and structures, including, but not limited to the following:

   Telephone cable, Stormsewer lines, Television cables, Saltwater lines, Conduits, Water lines, Sanitary Sewer lines, Pipes, Gas lines, Oil Production lines

   Note: If discrepancies occur between that which is shown on the plans and conditions present in the field, the contractor shall notify the engineer, in writing immediately. Failure to do so shall absolve owner and engineer of liability and associated costs.

Know what's below. Call before you dig.

Raising Cane's CHICKEN FINGERS
Restaurant Support Office
6800 Bishop Road, Plano, TX 75024
Tele: 972-769-3100 Fax: 972-769-3101

Restaurant:

Raising Cane's
Restaurant #C1148
Hwy 16 & Braund St
La Crosse, Wi. 54560
P4-V-AV

Designer's Information:

BENCHMARK DESIGN GROUP
CIVIL / ENVIRONMENTAL / PLANNERS
2024 REPUBLIC DRIVE, SUITE B, TYLER TEXAS 75703 - (903) 534-3333
WWW.BENCHMARK-ENGINEERS.COM

Prototype Phase:	2023
Project Issue Date:	00-00-0000
SAI Project Manager:	PDS

PERMIT SET
3-8-2024

WISCONSIN — RYAN W. DAVIS — E-49115 — MADISON WI — PROFESSIONAL ENGINEER
3-8-2024
EXP. 7/31/2024

Sheet Versions:

#	Date	Description
1	1.11.24	DESCRIPTION

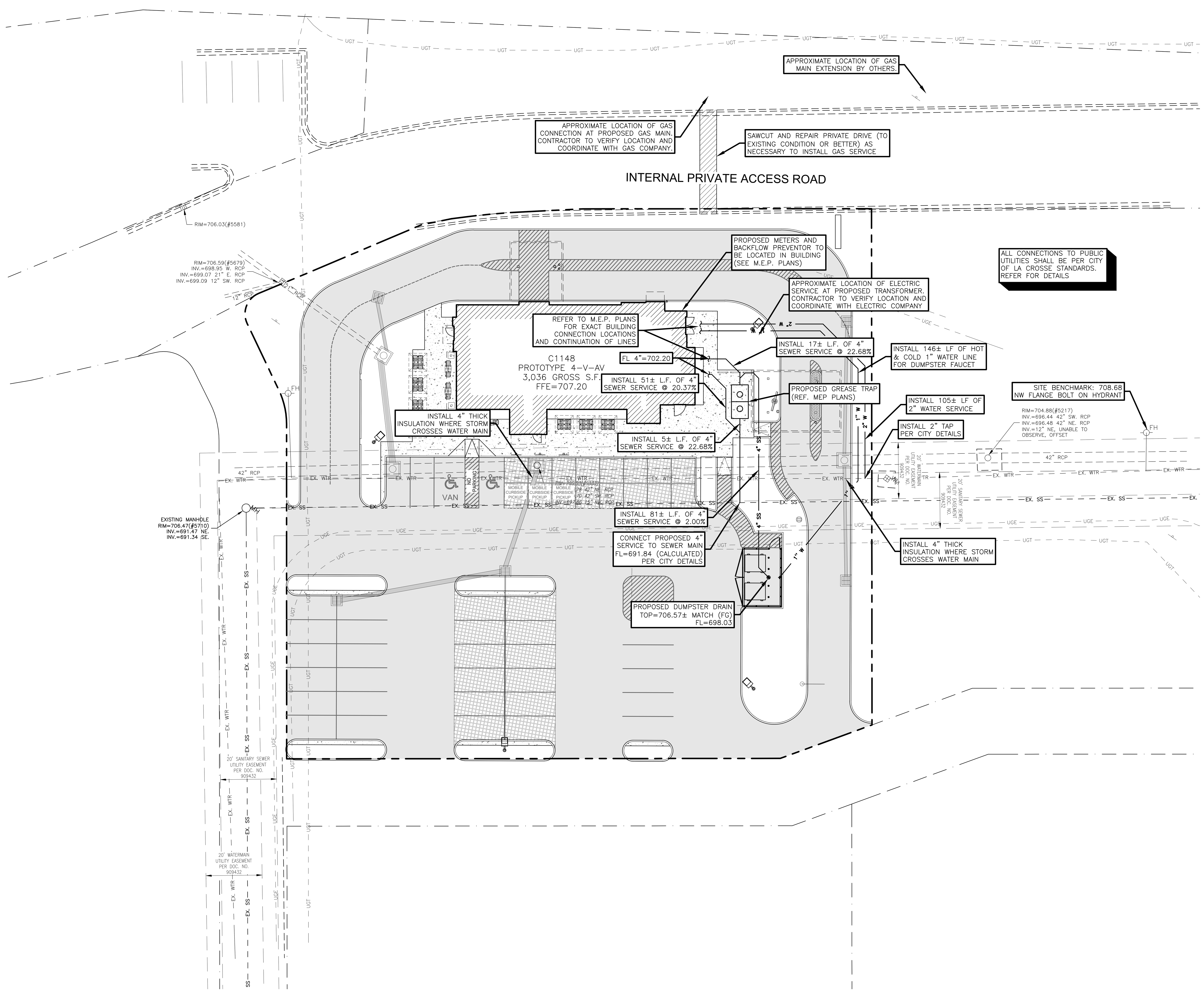
Sheet Title:

STORM DRAINAGE PLAN

Sheet Number:

C-6.3

BDG Job Number: 2023.098



UTILITY CONSTRUCTION NOTES:

1. CONTRACTOR IS RESPONSIBLE FOR REPAIRS OF DAMAGE TO ANY EXISTING IMPROVEMENTS DURING CONSTRUCTION, SUCH AS, BUT NOT LIMITED TO, DRAINAGE, UTILITIES, PAVEMENT, STRIPING, CURB, SIDEWALKS, DRIVEWAYS, FENCES, ETC. REPAIRS SHALL BE EQUAL TO OR BETTER THAN EXISTING CONDITIONS.
2. CONTRACTOR SHALL COMPLY TO THE FULLEST EXTENT WITH THE LATEST STANDARDS OF OSHA DIRECTIVES OR ANY OTHER AGENCY HAVING JURISDICTION FOR EXCAVATION AND TRENCHING PROCEDURE. CONTRACTOR SHALL USE SUPPORT SYSTEMS, SLOPING, BENCHING, AND OTHER MEANS OF PROTECTION. THIS IS TO INCLUDE, BUT NOT LIMITED TO, ACCESS AND EGRESS FROM ALL EXCAVATION AND TRENCHING. CONTRACTOR IS RESPONSIBLE TO COMPLY WITH PERFORMANCE CRITERIA FOR OSHA.
3. CONTRACTOR SHALL, ON ALL UTILITIES, COORDINATE INSPECTION WITH APPROPRIATE AUTHORITIES PRIOR TO COVERING TRENCHES.
4. CONSTRUCTION SHALL COMPLY WITH GOVERNING CODES AND REQUIREMENTS. CONTRACTOR SHALL CONDUCT ALL REQUIRED TESTS TO THE SATISFACTION OF THE UTILITY COMPANIES AND OWNERS INSPECTING AUTHORITIES.
5. ADJUST PAVEMENT AND/OR CURB ELEVATIONS AS NECESSARY TO ASSURE A SMOOTH FIT AND CONTINUOUS GRADE WITH EXISTING.
6. CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL UTILITIES AND NOTIFYING THE APPROPRIATE UTILITY COMPANY PRIOR TO BEGINNING CONSTRUCTION.
7. CONTRACTOR SHALL VERIFY HORIZONTAL AND VERTICAL LOCATION OF ALL EXISTING STORM SEWER STRUCTURES, PIPES, AND ALL UTILITIES PRIOR TO CONSTRUCTION.
8. ALL UNSURFACED AREAS DISTURBED BY GRADING OPERATION SHALL RECEIVE FOUR (4) INCHES OF TOPSOIL. CONTRACTOR SHALL APPLY STABILIZATION FABRIC TO ALL SLOPES STEEPER THAN 3H:1V. REFER TO OWNER FOR EXACT AREAS, DETAILS, AND SPECS.
9. CONTRACTOR SHALL COORDINATE WITH ARCHITECTURAL PLANS, POWER COMPANY, TELEPHONE COMPANY AND GAS COMPANY FOR ACTUAL ROUTING OF POWER AND SERVICES TO BUILDING.
10. CONSTRUCTION SHALL COMPLY WITH ALL GOVERNING CODES AND BE CONSTRUCTED TO SAME.
11. CONTRACTOR TO REFER TO LANDSCAPING/ARCHITECTURAL PLANS AND/OR OWNER FOR LOCATIONS OF PROPOSED LIGHT STANDARDS AND UTILITY SLEEVING.
12. REFER TO M.E.P. PLANS FOR ELECTRIC, GAS, TELEPHONE, CABLE AND ANY OTHER NECESSARY UTILITIES SERVICES, OTHER THAN WATER AND SANITARY SEWER.

LEGEND

Symbol	Description
TEL PED □	EXISTING TELEPHONE PEDESTAL
C.O. ○	EXISTING CLEANOUT
WV	EXISTING WATER VALVE
WM	EXISTING WATER METER
MH	EXISTING SAN. SEWER MANHOLE
PP	EXISTING POWER POLE
FH	EXISTING FIRE HYDRANT
OHE	EXISTING OVERHEAD ELECTRIC LINE
EX. WTR	EXISTING WATER LINE
EX. SS	EXISTING SAN. SEWER LINE
	PROPERTY LINE
WV	PROPOSED WATER VALVE
WM	PROPOSED WATER METER
FH	PROPOSED FIRE HYDRANT
W	PROPOSED WATER LINE
SS	PROPOSED SAN. SEWER LINE

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

NOTICE TO CONTRACTORS

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4. The topographic information shown hereon is a reflection of the information provided by **CHAPUT LAND SURVEYS**
   If the contractor discovers any errors in said information, he shall notify the engineer, in writing, immediately. The engineer and owner shall be indemnified of any problems and/or associated costs resulting from lack of notification.
5. The contractor shall be responsible for confirming the horizontal and vertical location of buried utilities and structures, including, but not limited to the following:

Telephone cable	Conduits	Pipes
Stormsewer lines	Water lines	Gas lines
Television cables	Sanitary Sewer lines	Oil Production lines
Saltwater lines		

Note: If discrepancies occur between that which is shown on the plans and conditions present in the field, the contractor shall notify the engineer, in writing immediately. Failure to do so shall absolve owner and engineer of liabiltiy and associated costs.

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Restaurant:

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Hwy 16 & Braund St
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P4-V-AV

Designer's Information:

BENCHMARK DESIGN GROUP
CIVIL / ENVIRONMENTAL / PLANNERS

Prototype Phase: 2023
Project Issue Date: 00-00-0000
SAI Project Manager: PDS

PERMIT SET
3-8-2024

WISCONSIN PROFESSIONAL ENGINEER
RYAN W. DAVIS
E-49115
MADISON WI
3-8-2024
EXP. 1/31/2024

Sheet Versions:

#	Date	Description
1	1.11.24	DESCRIPTION

Sheet Title:

UTILITY PLAN

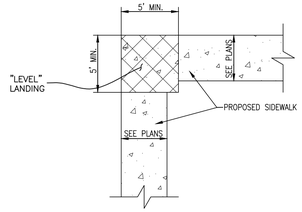
Sheet Number:

C-7.0

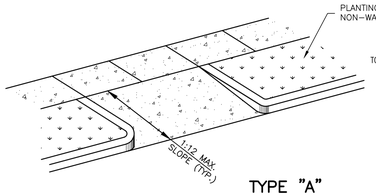
BDG Job Number: 2023.098

NOTES

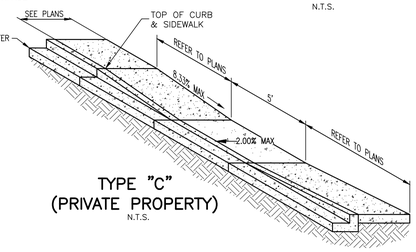
1. THE LOWER LANDING SHALL BE FINISHED WITH ARMOR-TILE TRUNCATED DOME TILES OR APPROVED EQUAL.
2. THE BOTTOM OF THE RAMP SHALL HAVE A 1/2" LIP OF 45°.
3. CONSTRUCT PER T.D.L.R. STANDARDS.



CHANGE IN DIRECTION ALONG A.D.A. ROUTE
N.T.S.



TYPE "A"
(PRIVATE PROPERTY)
N.T.S.



TYPE "C"
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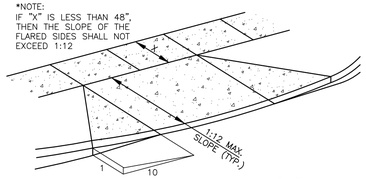

TYPE "B"
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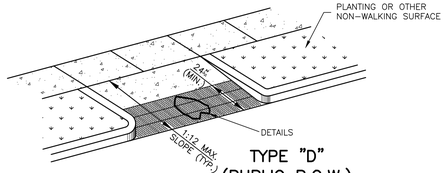

TYPE "D"
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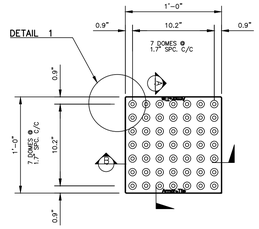
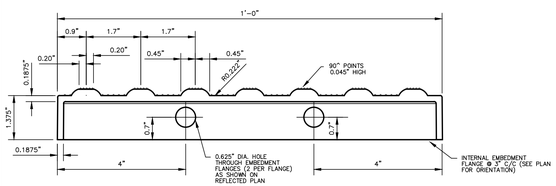
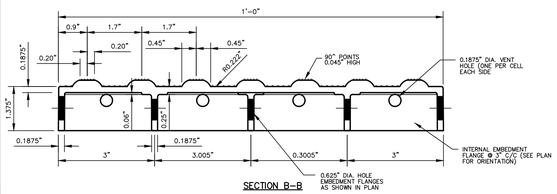
N.T.S.



PLAN - TILE

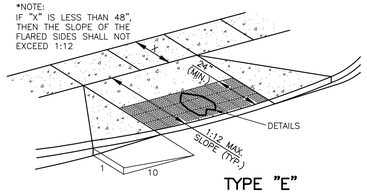


SECTION A-A



SECTION B-B

*NOTE:
IF "X" IS LESS THAN 48", THEN THE SLOPE OF THE FLARED SIDES SHALL NOT EXCEED 1:12



TYPE "E"
(PUBLIC R.O.W.)
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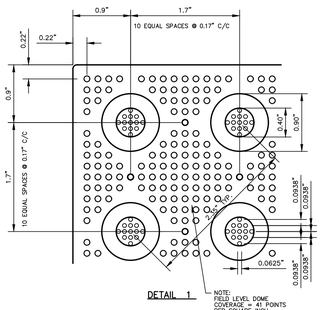
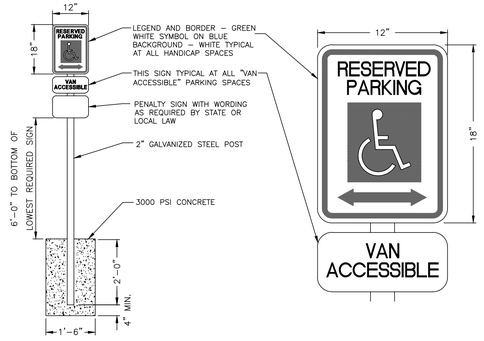


SIDEWALK RAMP DETAIL
N.T.S.



HANDICAP PARKING SIGN DETAIL
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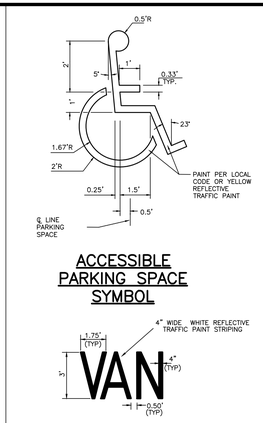
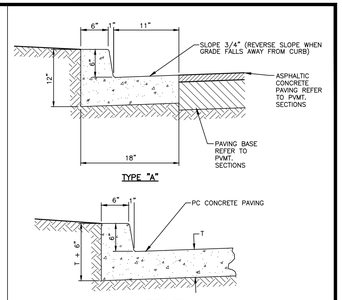


ACCESSIBLE PARKING SPACE SYMBOL

"VAN" PAINTING DETAIL

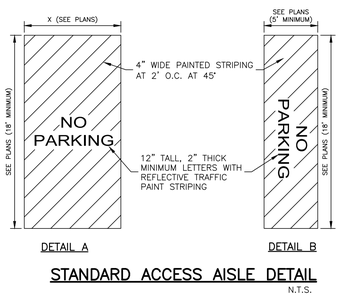


CURB & GUTTER DETAILS

NOTES:

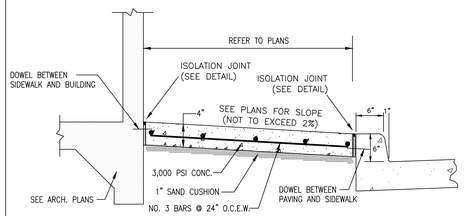
1. TYPE "A" TO BE USED ON ASPHALTIC CONCRETE PAVING, AND TYPE "B" TO BE USED WITH CONCRETE.
2. CONCRETE FOR CURB AND GUTTER SHALL BE 3,600 P.SI. AT 28 DAYS.

REFER TO GEOTECHNICAL REPORT FOR ANY CLARIFICATIONS AND / OR DISCREPANCIES.

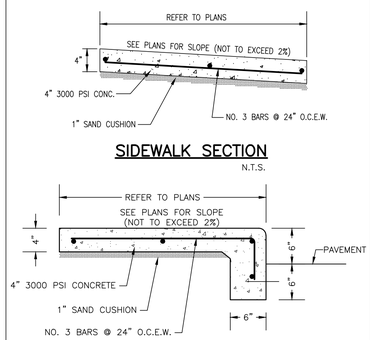


STANDARD ACCESS AISLE DETAIL
N.T.S.

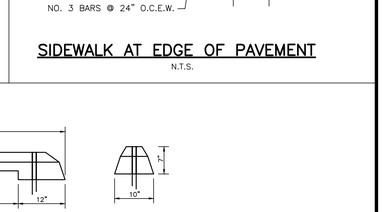
* USE DETAIL A UNLESS "X" IS LESS THAN 8'. WHERE X IS LESS THAN 8' USE DETAIL B.



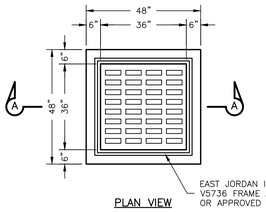
SIDEWALK @ BUILDING SECTION
N.T.S.



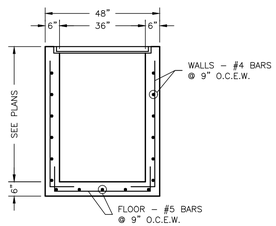
SIDEWALK SECTION
N.T.S.



SIDEWALK AT EDGE OF PAVEMENT
N.T.S.



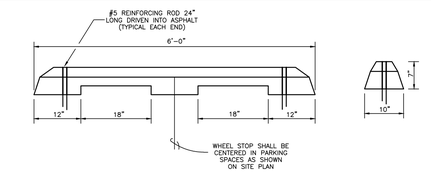
PLAN VIEW



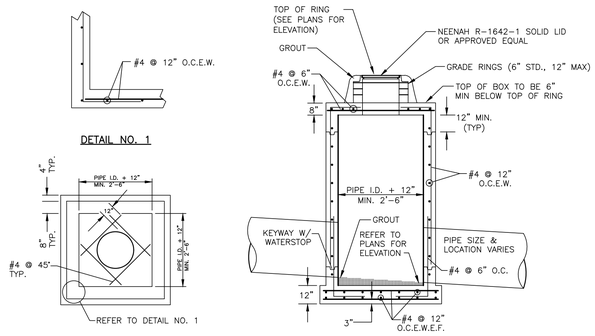
SECTION A-A

TYPE "B" GRATE INLET

NOTE: EAST JORDAN IRON WORKS GRATE NO. V5736 FREE OPENING = 4.81 S.F. PER GRATE ALTERNATE GRATES MUST HAVE EQUIVALENT FREE OPENING FOR APPROVED USE.



WHEEL STOP DETAIL



JUNCTION BOX DETAIL

Raising Cane's CHICKEN FINGERS
Restaurant Support Office
6800 Bishop Road, Plano, TX 75024
Tele: 972-769-3100 Fax: 972-769-3101

Restaurant:

Raising Cane's
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Designer's Information:

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Prototype Phase:	2023
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PERMIT SET
3-8-2024

WISCONSIN
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PROFESSIONAL ENGINEER
3-8-2024
EXP. 7/31/2024

Sheet Versions:

#	Date	Description
1	1.11.24	DESCRIPTION

Sheet Title:

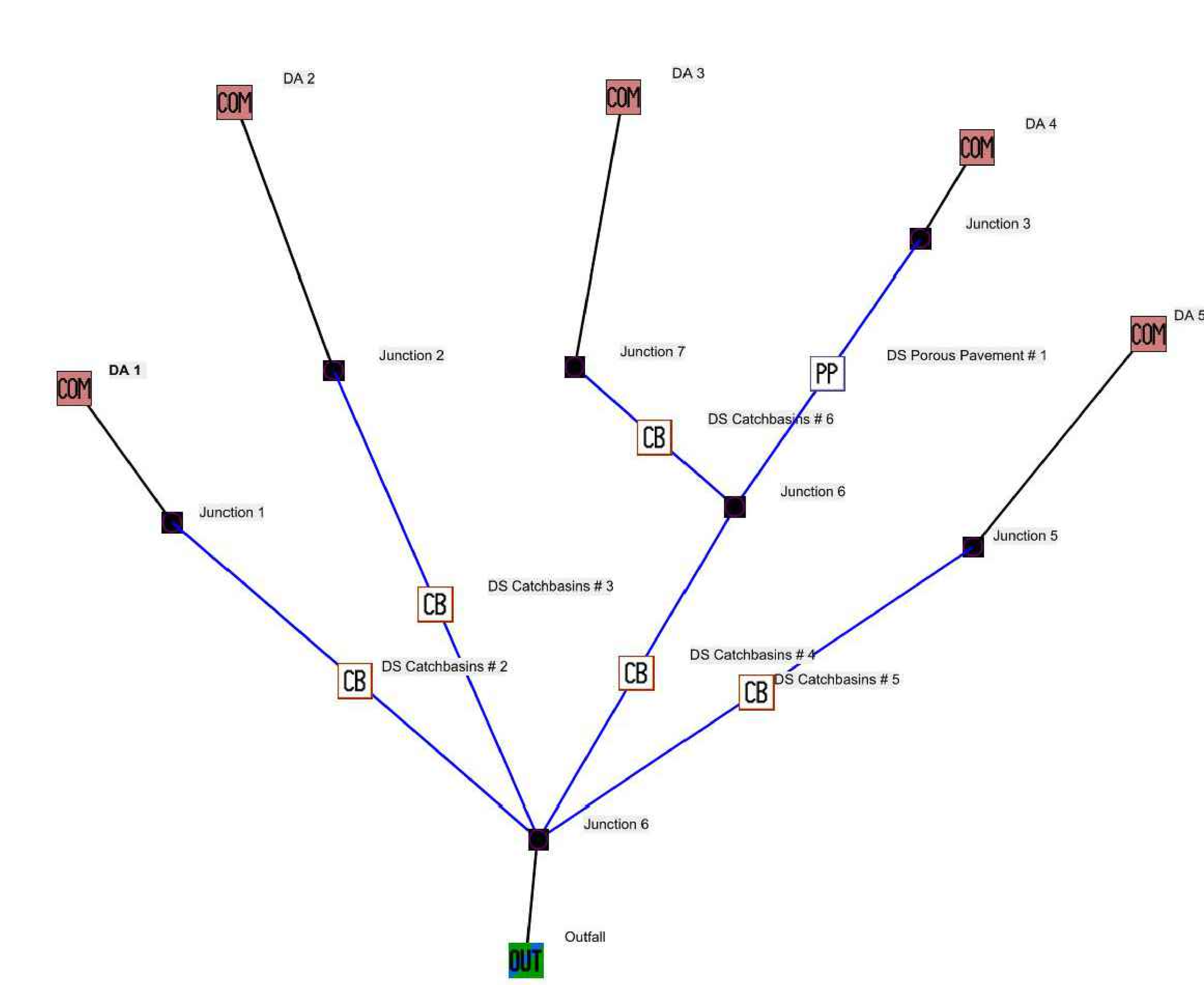
CONSTRUCTION DETAILS

Sheet Number:

C-8.0

BDG Job Number: 2023.098

WINSLAMM MODEL



WINSLAMM INPUT SUMMARY

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Particulate Solids Concentration file name: C:\WinSLAMM Files\v10.1 WI_AVG01.pscx
Runoff Coefficient file name: C:\WinSLAMM Files\WI_SL06 Dec06.rsvx
Residential Street Delivery file name: C:\WinSLAMM Files\WI_Res and Other Urban Dec06.std
Institutional Street Delivery file name: C:\WinSLAMM Files\WI_Com Inst Indust Dec06.std
Commercial Street Delivery file name: C:\WinSLAMM Files\WI_Com Inst Indust Dec06.std
Industrial Street Delivery file name: C:\WinSLAMM Files\WI_Com Inst Indust Dec06.std
Other Urban Street Delivery file name: C:\WinSLAMM Files\WI_Res and Other Urban Dec06.std
Freeway Street Delivery file name: C:\WinSLAMM Files\Freeway Dec06.std
Apply Street Delivery Files to Adjust the After Event Load Street Dirt Mass Balance: False
Pollutant Relative Concentration file name: C:\WinSLAMM Files\WI_GEO03.ppdx
Source Area PSD and Peak to Average Flow Ratio File: C:\WinSLAMM Files\NURP Source Area PSD Files.csv
Cost Data file name:
Seed for random number generator: -42
Study period starting date: 01/05/81 Study period ending date: 12/31/81
Start of Winter Season: 12/02 End of Winter Season: 03/12
Date: 02-27-2024 Time: 15:01:55
Site information:

LU# 1 - Commercial: DA 1 Total area (ac): 0.050
13 - Paved Parking 1: 0.050 ac. Connected PSD File: C:\WinSLAMM Files\NURP.cpz Source Area PSD File: C:\WinSLAMM Files\NURP.cpz

LU# 2 - Commercial: DA 2 Total area (ac): 0.100
13 - Paved Parking 1: 0.100 ac. Connected PSD File: C:\WinSLAMM Files\NURP.cpz Source Area PSD File: C:\WinSLAMM Files\NURP.cpz

LU# 3 - Commercial: DA 4 Total area (ac): 0.340
13 - Paved Parking 1: 0.340 ac. Connected PSD File: C:\WinSLAMM Files\NURP.cpz Source Area PSD File: C:\WinSLAMM Files\NURP.cpz

LU# 4 - Commercial: DA 3 Total area (ac): 0.060
13 - Paved Parking 1: 0.060 ac. Connected PSD File: C:\WinSLAMM Files\NURP.cpz Source Area PSD File: C:\WinSLAMM Files\NURP.cpz

LU# 5 - Commercial: DA 5 Total area (ac): 0.040
13 - Paved Parking 1: 0.040 ac. Connected PSD File: C:\WinSLAMM Files\NURP.cpz Source Area PSD File: C:\WinSLAMM Files\NURP.cpz

Control Practice 1: Catchbasin Cleaning CP# 1 (DS) - DS Catchbasins # 2
1. Fraction of area served by catchbasins (acres) = 1.00
2. Number of catchbasins = 1
3. Average sump depth below catchbasin outlet invert (feet) = 1.5
4. Depth of sediment in catchbasin sump at beginning of study period (ft) = 0
5. Typical outlet pipe diameter (ft) = 1
6. Typical outlet pipe Mannings n = 0.013
7. Typical outlet pipe slope (ft/ft) = 0.03
8. Typical catchbasin sump surface area (square feet) = 9
9. Total catchbasin depth (feet) = 7.6
10. Inflow hydrograph peak to average flow ratio = 3.8
11. Leakage rate through sump bottom (in/hr) = 0
12. Catchbasin Critical Particle Size File Name: Not needed - calculated by program
13. Catchbasin cleaning frequency: Every 5 years
Catchbasin Flow Bypass Data
1. Maximum flow to in-line sump (cfs) = 1.08

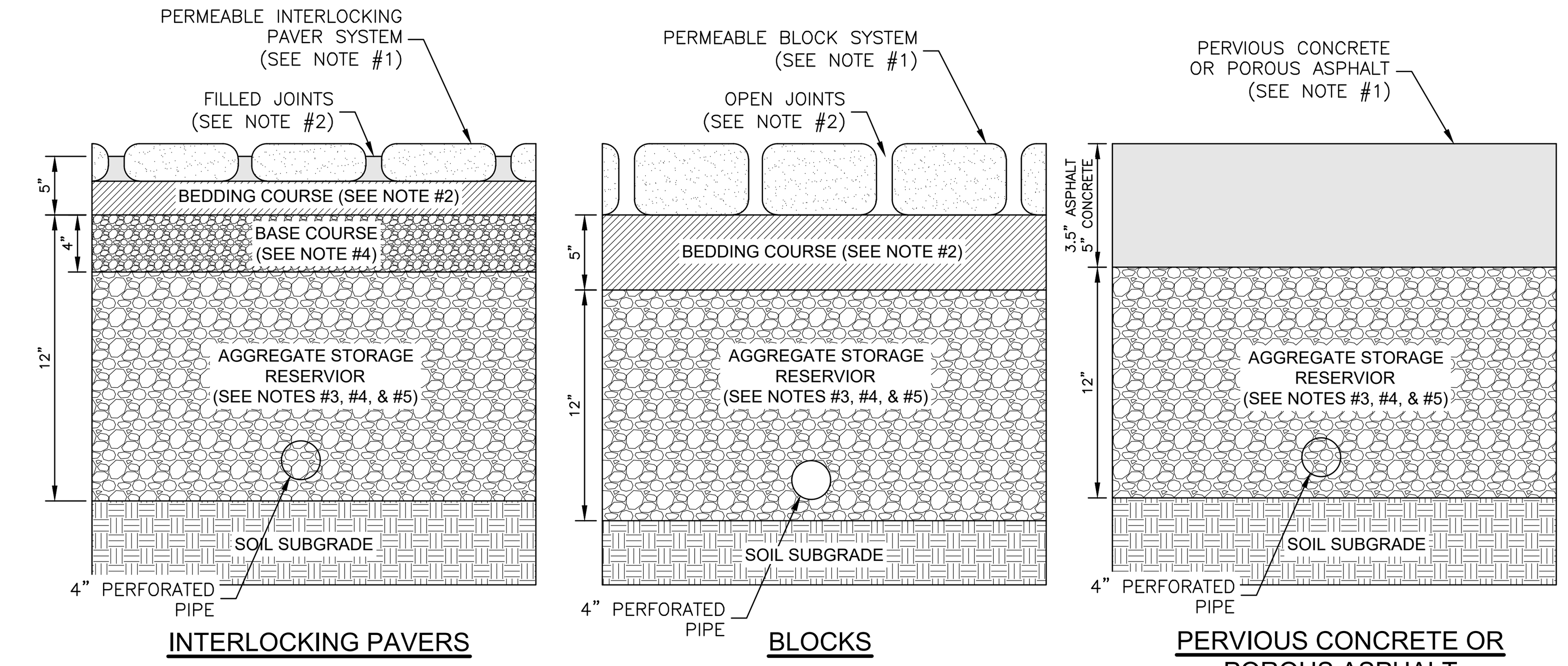
Control Practice 2: Catchbasin Cleaning CP# 2 (DS) - DS Catchbasins # 3
1. Fraction of area served by catchbasins (acres) = 1.00
2. Number of catchbasins = 1
3. Average sump depth below catchbasin outlet invert (feet) = 1.5
4. Depth of sediment in catchbasin sump at beginning of study period (ft) = 0
5. Typical outlet pipe diameter (ft) = 1
6. Typical outlet pipe Mannings n = 0.013
7. Typical outlet pipe slope (ft/ft) = 0.02
8. Typical catchbasin sump surface area (square feet) = 9
9. Total catchbasin depth (feet) = 7.6
10. Inflow hydrograph peak to average flow ratio = 3.8
11. Leakage rate through sump bottom (in/hr) = 0
12. Catchbasin Critical Particle Size File Name: Not needed - calculated by program
13. Catchbasin cleaning frequency: Every 5 years
Catchbasin Flow Bypass Data
1. Maximum flow to in-line sump (cfs) = 2.08

Control Practice 3: Catchbasin Cleaning CP# 3 (DS) - DS Catchbasins # 4
1. Fraction of area served by catchbasins (acres) = 1.00
2. Number of catchbasins = 1
3. Average sump depth below catchbasin outlet invert (feet) = 1.5
4. Depth of sediment in catchbasin sump at beginning of study period (ft) = 0
5. Typical outlet pipe diameter (ft) = 1.5
6. Typical outlet pipe Mannings n = 0.013
7. Typical outlet pipe slope (ft/ft) = 0.03
8. Typical catchbasin sump surface area (square feet) = 9
9. Total catchbasin depth (feet) = 8
10. Inflow hydrograph peak to average flow ratio = 3.8
11. Leakage rate through sump bottom (in/hr) = 0
12. Catchbasin Critical Particle Size File Name: Not needed - calculated by program
13. Catchbasin cleaning frequency: Every 5 years
Catchbasin Flow Bypass Data
1. Maximum flow to in-line sump (cfs) = 4.93

Control Practice 4: Catchbasin Cleaning CP# 4 (DS) - DS Catchbasins # 5
1. Fraction of area served by catchbasins (acres) = 1.00
2. Number of catchbasins = 1
3. Average sump depth below catchbasin outlet invert (feet) = 1.5
4. Depth of sediment in catchbasin sump at beginning of study period (ft) = 0
5. Typical outlet pipe diameter (ft) = 1
6. Typical outlet pipe Mannings n = 0.013
7. Typical outlet pipe slope (ft/ft) = 0.01
8. Typical catchbasin sump surface area (square feet) = 9
9. Total catchbasin depth (feet) = 8.4
10. Inflow hydrograph peak to average flow ratio = 3.8
11. Leakage rate through sump bottom (in/hr) = 0
12. Catchbasin Critical Particle Size File Name: Not needed - calculated by program
13. Catchbasin cleaning frequency: Every 5 years
Catchbasin Flow Bypass Data
1. Maximum flow to in-line sump (cfs) = 0.58

Control Practice 5: Porous Pavement CP# 1 (DS) - DS Porous Pavement # 1
Porous pavement area (ac): 0.078
Inflow hydrograph peak to average flow ratio: 3.8
Porous pavement thickness (in): 2
Porous pavement porosity: 0.2
Aggregate bedding thickness (in): 5
Aggregate bedding porosity: 0.35
Aggregate base reservoir thickness (in): 12
Aggregate base reservoir porosity: 0.35
Underdrain diameter (in): 4
Underdrain outlet invert elevation (inches above datum): 2
Number of underdrains: 3
Subgrade seepage rate (in/hr): 0.05
Use random number generation to account for uncertainty in seepage rate: 0
Subgrade seepage rate COV: 0
Surface pavement initial infiltration rate (in/hr): 100
Surface pavement initial infiltration rate (in/hr): 100
Surface Pavement Percent Solids Removal Upon Cleaning: 50
Porous pavement surface clogging load (lbs/sf): 0.06
Porous pavement restorative cleaning frequency: Semi-annually
TSS concentration reduction percentage through underdrain: 0
Porous pavement particle size distribution file name: Not needed - calculated by program

Control Practice 6: Catchbasin Cleaning CP# 5 (DS) - DS Catchbasins # 6
1. Fraction of area served by catchbasins (acres) = 1.00
2. Number of catchbasins = 1
3. Average sump depth below catchbasin outlet invert (feet) = 1.5
4. Depth of sediment in catchbasin sump at beginning of study period (ft) = 0
5. Typical outlet pipe diameter (ft) = 1.5
6. Typical outlet pipe Mannings n = 0.013
7. Typical outlet pipe slope (ft/ft) = 0.03
8. Typical catchbasin sump surface area (square feet) = 9
9. Total catchbasin depth (feet) = 6.6
10. Inflow hydrograph peak to average flow ratio = 3.8
11. Leakage rate through sump bottom (in/hr) = 0
12. Catchbasin Critical Particle Size File Name: Not needed - calculated by program
13. Catchbasin cleaning frequency: Every 5 years
Catchbasin Flow Bypass Data
1. Maximum flow to in-line sump (cfs) = 0.69



INTERLOCKING PAVERS | BLOCKS | PERVIOUS CONCRETE OR POROUS ASPHALT

NOTES:

1. PAVEMENT SURFACE PERCENT VOIDS SHALL BE LESS THAN 25%.

2. JOINT STONE AND BEDDING COURSE SHALL CONSIST OF ASTM C-33, 8, 9, 89, OR 57 AGGREGATE.

3. AGGREGATE STORAGE RESERVIOR DEPTH SHALL BE A MINIMUM OF 12 INCHES.

4. BASE AND / OR SUBBASE COURSES WITH MINIMUM POROSITY OF 30% CAN BE CONSIDERED AGGREGATE STORAGE RESERVIOR. BASE COURSE FOR PERMEABLE INTERLOCKING PAVERS SHALL BE 4.0" DEPTH OF ASTM C-33, 57 AGGREGATE AND CAN BE CONSIDERED PART OF THE AGGREGATE STORAGE DEPTH.

5. UNDERDRAINS CAN BE LOCATED WITHIN OR BELOW THE AGGREGATE STORAGE RESERVIOR. UNDERDRAINS (OR EQUIVALENT) ARE REQUIRED IF THE AGGREGATE STORAGE RESERVIOR DRAIN DOWN THE TIME WILL EXCEED 72 HOURS.

CONTRACTOR SHALL DETERMINE WHICH OPTION IS BEING PROCEEDED WITH AND NOTIFY ENGINEER OF RECORD AND CITY PRIOR TO CONSTRUCTION.

WINSLAMM OUTPUT SUMMARY

SLAMM for Windows Version 10.5.0
(c) Copyright Robert Pitt and John Voorhees 2019, All Rights Reserved

Data file name: F:\Projects\2023\2023.098 Cane's - La Crosse, WI\Calcs\2023.098 2-27-2024.mdb
WinSLAMM Version 10.5.0
Rain file name: C:\WinSLAMM Files\Rain Files\WisReg - Madison WI 1981.RAN
Particulate Solids Concentration file name: C:\WinSLAMM Files\v10.1 WI_AVG01.pscx
Runoff Coefficient file name: C:\WinSLAMM Files\WI_SL06 Dec06.rsvx
Pollutant Relative Concentration file name: C:\WinSLAMM Files\WI_GEO03.ppdx
Residential Street Delivery file name: C:\WinSLAMM Files\WI_Res and Other Urban Dec06.std
Institutional Street Delivery file name: C:\WinSLAMM Files\WI_Com Inst Indust Dec06.std
Commercial Street Delivery file name: C:\WinSLAMM Files\WI_Com Inst Indust Dec06.std
Industrial Street Delivery file name: C:\WinSLAMM Files\WI_Com Inst Indust Dec06.std
Other Urban Street Delivery file name: C:\WinSLAMM Files\WI_Res and Other Urban Dec06.std
Freeway Street Delivery file name: C:\WinSLAMM Files\Freeway Dec06.std
Apply Street Delivery Files to Adjust the After Event Load Street Dirt Mass Balance: False
Source Area PSD and Peak to Average Flow Ratio File: C:\WinSLAMM Files\NURP Source Area PSD Files.csv
Cost Data file name:
Seed for random number generator: -42
Study period starting date: 01/05/81 Study period ending date: 12/31/81
Start of Winter Season: 12/02 End of Winter Season: 03/12
Model Run Start Date: 01/05/81 Model Run End Date: 12/31/81
Date of run: 02-27-2024 Time of run: 14:14:31
Total Area Modeled (acres): 0.590
Years in Model Run: 0.98

	Runoff Volume (cu ft)	Percent Runoff Volume Reduction	Particulate Solids Conc. (mg/L)	Particulate Solids Yield (lbs)	Percent Particulate Solids Reduction
Total of all Land Uses without Controls:	44784	-	130.0	363.5	
Outfall Total with Controls:	35435	20.88%	61.72	136.5	62.45%
Annualized Total After Outfall Controls:	36027			138.8	

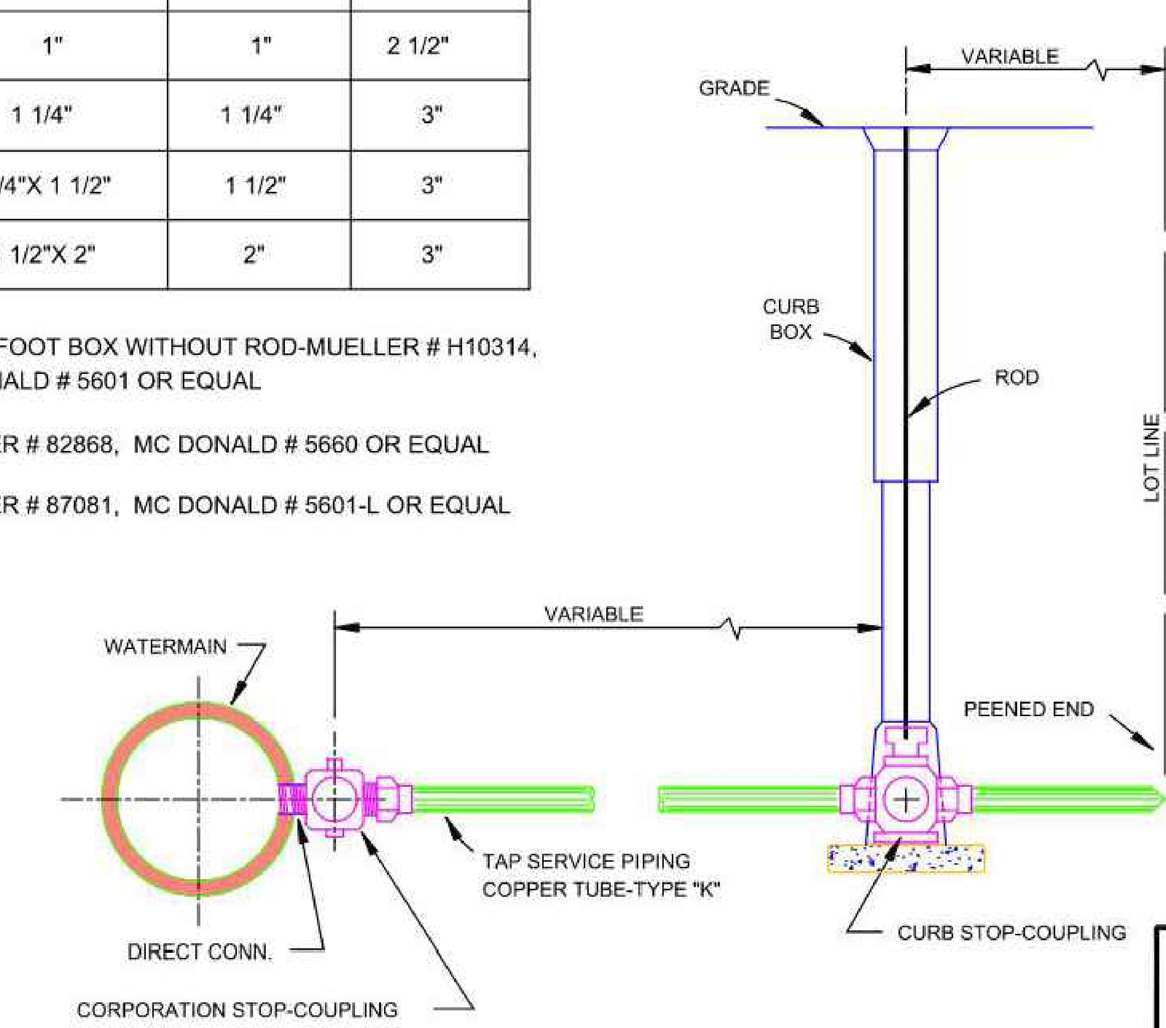
DETAIL OF SERVICE SHUT-OFF

SERVICE PIPE	CORP. STOP	CURB STOP	SERVICE BOX
1"	1"	1"	2 1/2"
1 1/4"	1 1/4"	1 1/4"	3"
1 1/2"	1 1/4"X 1 1/2"	1 1/2"	3"
2"	1 1/2"X 2"	2"	3"

CURB BOX : SEVEN FOOT BOX WITHOUT ROD-MUELLER # H10314, MC DONALD # 5601 OR EQUAL

54" or 57" ROD : MUELLER # 82868, MC DONALD # 5660 OR EQUAL

LID : MUELLER # 87081, MC DONALD # 5601-L OR EQUAL



NOTE:
SERVICES SMALLER THAN 1" ARE TO BE TAPPED 45° TO VERTICAL ON WATERMAIN

PROJECT No.
LOCATION *WATERMAIN DETAILS*
RESOLUTION DATE
ENGINEERING DEPT.
City of La Crosse, WI.
01/2021
SHEET NO. D-3 TOTAL SHEETS

Raising Cane's CHICKEN FINGERS
Restaurant Support Office
6800 Bishop Road, Plano, TX 75024
Tele: 972-769-3100 Fax: 972-769-3101

Restaurant:

Raising Cane's
Restaurant #C1148
Hwy 16 & Braund St
La Crosse, Wi. 54560
P4-V-AV

Designer's Information:

BENCHMARK DESIGN GROUP
CIVIL / ENVIRONMENTAL / PLANNERS

Prototype Phase: 2023
Project Issue Date: 00-00-0000
SAI Project Manager: PDS

PERMIT SET
3-8-2024

WISCONSIN PROFESSIONAL ENGINEER RYAN W. DAVIS E-49115 MADISON WI
3-8-2024
EXP. 1/31/2024

Sheet Versions:

#	Date	Description
1	1.11.24	DESCRIPTION

Sheet Title:

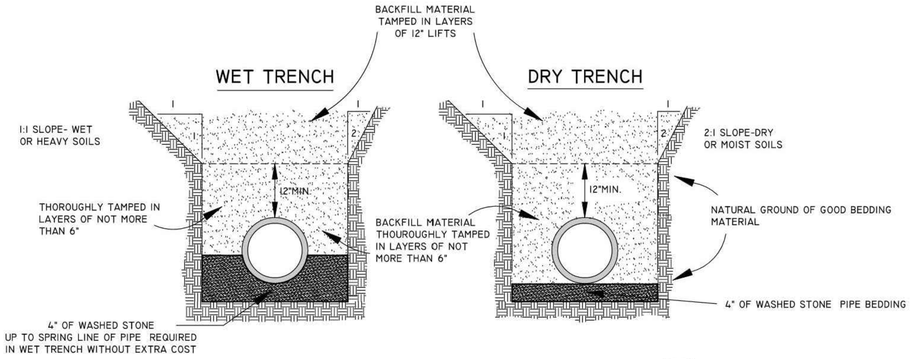
CONSTRUCTION DETAILS

Sheet Number:

C-8.1

BDG Job Number: 2023.098

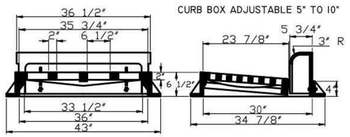
DRAWING
NOT TO SCALE



DETAILS OF SEWER TRENCHES — A / D-2

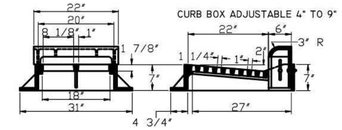
SEWER PIPE JOINT MATERIALS

CONCRETE PIPE-RUBBER GASKET (ASTM C-443)
PVC PIPE- ELASTOMETRIC GASKET (ASTM D-3212 & F-477)



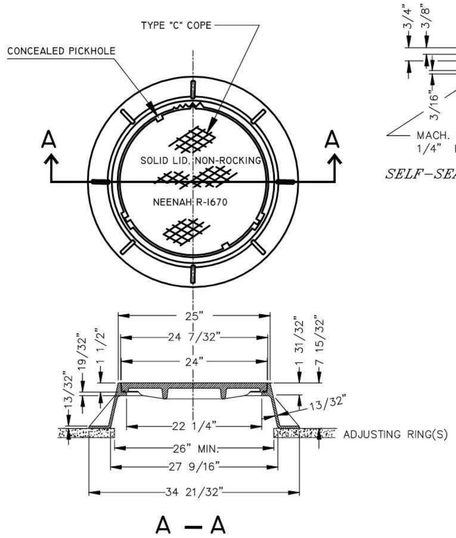
DETAILS OF TYPE "A" CATCH BASIN CASTING
NEENAH R-3246-A OR EQUAL
MINIMUM WEIGHT 649 LBS. TOTAL

F / D-2



DETAILS OF TYPE "B" CATCH BASIN CASTING
NEENAH R-3234-BI OR EQUAL
MINIMUM WEIGHT 400 LBS. TOTAL

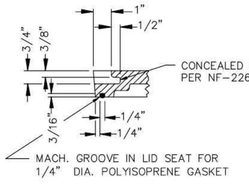
NOTE: " DUMP NO WASTE DRAINS TO RIVER"
SHALL BE MOLDED IN ALL CASTINGS FACE



DETAIL OF MANHOLE FRAME & COVER
(MINIMUM WEIGHT 324 LBS. TOTAL)
NEENAH R-1670 OR EQUAL

NOTE
OPENING FOR FRAME & COVER SHALL BE CENTERED ON MANHOLES WITH FLAT TOPS.

B / D-2



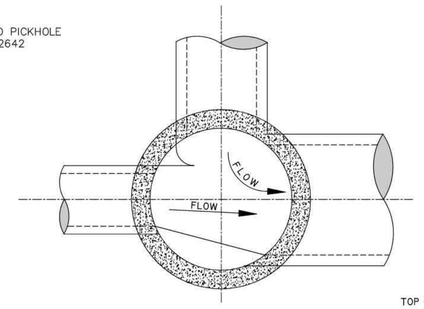
SELF-SEAL DETAIL

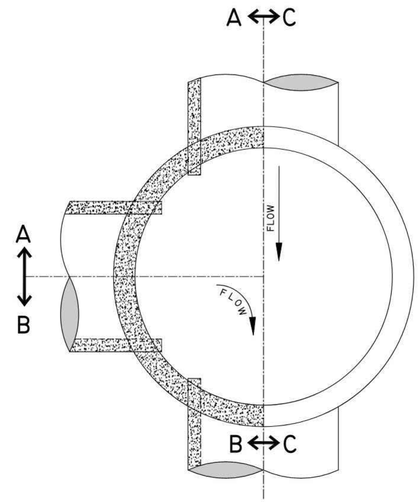
NOTE (12)

THE CONNECTION OF ALL PVC STORM WATER PIPE, SIZE 6" TO 30", TO PRECAST MANHOLES OR OTHER STRUCTURES SHALL EMPLOY A WATERTIGHT, FLEXIBLE PIPE-TO-MANHOLE CONNECTOR

THE CONNECTOR SHALL CONSIST OF A SINGLE RUBBER GASKET, SHALL BE CONSTRUCTED SOLELY OF SYNTHETIC OR NATURAL RUBBER, SHALL MEET/EXCEED THE REQUIREMENTS OF ASTM C 923, AND SHALL HAVE A MINIMUM TENSILE STREGHTH OF 1600 PSI

THE CONNECTOR SHALL BE THE SOLE ELEMENT RELIED ON TO ASSURE A FLEXIBLE, WATERTIGHT SEAL OF THE PIPE TO THE STRUCTURE





NOTE (1)
TOP OF MANHOLE TO BE 12" BELOW FINISHED GRADE. ADJUSTMENT TO BE OF PRE-CAST CONCRETE RINGS WITH BUTYL GASKETS (ROPE) BETWEEN RINGS AND MORTER BETWEEN CASTING & TOP RING ONLY. (3/4" MORTER MAX.)

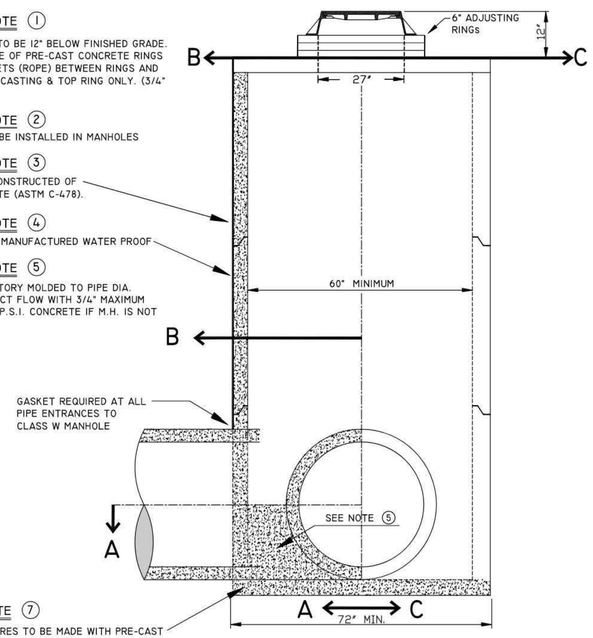
NOTE (2)
NO STEPS ARE TO BE INSTALLED IN MANHOLES

NOTE (3)
MANHOLE TO BE CONSTRUCTED OF PRE-CAST CONCRETE (ASTM C-478).

NOTE (4)
LIFT HOLES TO BE MANUFACTURED WATER PROOF

NOTE (5)
INVERT TO BE FACTORY MOLDED TO PIPE DIA. OR FILLED TO DIRECT FLOW WITH 3/4" MAXIMUM AGGREGATE, 3500 P.S.I. CONCRETE IF M.H. IS NOT REPLACED

C / D-2 DETAILS OF STANDARD MANHOLE FOR 30" PIPE OR SMALLER

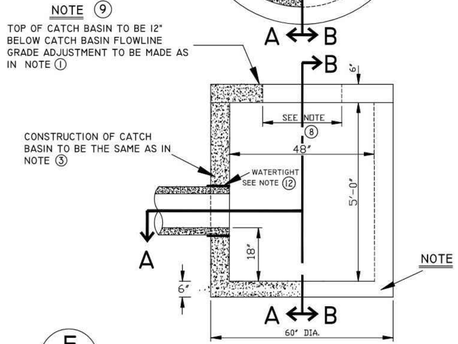


D / D-2 DETAILS OF STANDARD MANHOLE FOR 36" PIPE OR LARGER

NOTE (8)
RECTANGULAR OPENING IN TOP
"B" TYPE CASTING - 27" X 22"
"A" TYPE CASTING - 36" X 30"

NOTE (9)
TOP OF CATCH BASIN TO BE 12" BELOW CATCH BASIN FLOWLINE GRADE ADJUSTMENT TO BE MADE AS IN NOTE (1)

CONSTRUCTION OF CATCH BASIN TO BE THE SAME AS IN NOTE (3)



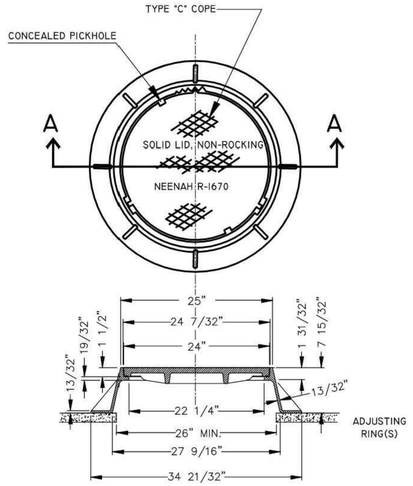
E / D-2 DETAIL OF TYPE "A" OR "B" CATCH BASIN

PROJECT No.	STORM SEWER DETAILS
LOCATION	D-2
RESOLUTION	DATE

ENGINEERING DEPT.
City of LaCrosse, Wis.

			BY	DATE
FIELD BOOK	SURVEYED			
NUMBER	DRAWN PRELIMINARY / FINAL			
	CHECKED			
PAGE	APPROVED			
	REVISIONS	M.D.F. 3/03	J.M.C.	6/2015
		J.M.C. 9/03	BFM	2/2019
		M.D.F. 4/06	J.M.C.	8/2019
SCALE: NONE		M.D.F. 12/10	J.M.C.	11/2023
SHEET NO.		M.D.F. 4/13 TOTAL SHEETS		

DRAWING NOT TO SCALE

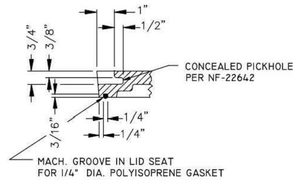


A – A

DETAIL OF MANHOLE FRAME & COVER

(MINIMUM WEIGHT 324 LBS. TOTAL)
NEENAH R-1670 OR EQUAL

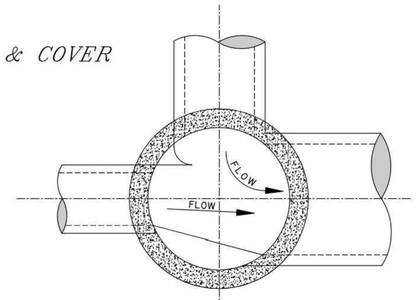
B
D-6



SELF-SEAL DETAIL

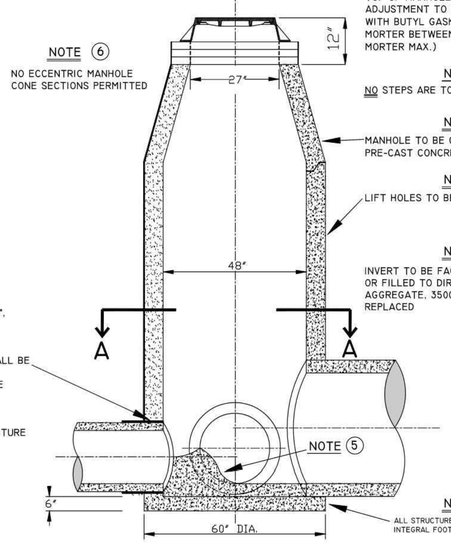
NOTE

OPENING FOR FRAME & COVER SHALL BE CENTERED ON MANHOLES WITH FLAT TOPS.



A – A

NOTE (6)
NO ECCENTRIC MANHOLE CONE SECTIONS PERMITTED



NOTE (12)

THE CONNECTION OF ALL PVC SANITARY SEWER PIPE, SIZE 6" TO 30", TO PRECAST MANHOLES OR OTHER STRUCTURES SHALL EMPLOY A WATERTIGHT, FLEXABLE PIPE-TO-MANHOLE CONNECTOR

THE CONNECTOR SHALL CONSIST OF A SINGLE RUBBER GASKET, SHALL BE CONSTRUCTED SOLELY OF SYNTHETIC OR NATURAL RUBBER, SHALL MEET/EXCEED THE REQUIREMENTS OF ASTM C 923, AND SHALL HAVE A MINIMUM TENSILE STREGHTH OF 1600 PSI

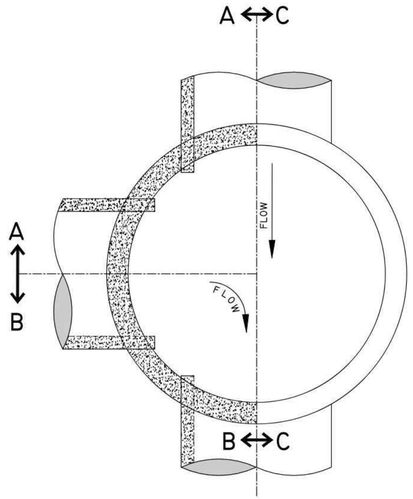
THE CONNECTOR SHALL BE THE SOLE ELEMENT RELIED ON TO ASSURE A FLEXIBLE, WATERTIGHT SEAL OF THE PIPE TO THE STRUCTURE

C
D-6

DETAILS OF STANDARD MANHOLE FOR 30" PIPE OR SMALLER

SEWER PIPE JOINT MATERIALS

CONCRETE PIPE-RUBBER GASKET (ASTM C-443)
PVC PIPE- ELASTOMETRIC GASKET (ASTM D-3212 & F-477)



NOTE (1)
TOP OF MANHOLE TO BE 12" BELOW FINISHED GRADE. ADJUSTMENT TO BE OF PRE-CAST CONCRETE RINGS WITH BUTYL GASKETS (ROPE) BETWEEN RINGS AND MORTER BETWEEN CASTING & TOP RING ONLY. (3/4" MORTER MAX.)

NOTE (2)
NO STEPS ARE TO BE INSTALLED IN MANHOLES

NOTE (3)
MANHOLE TO BE CONSTRUCTED OF PRE-CAST CONCRETE (ASTM C-478).

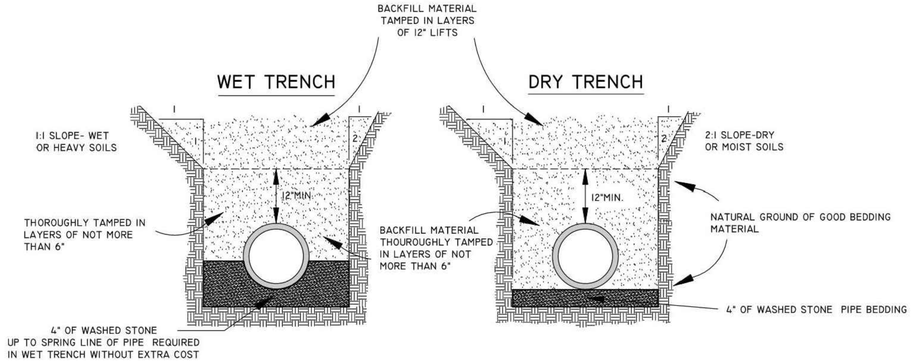
NOTE (4)
LIFT HOLES TO BE MANUFACTURED WATER PROOF

NOTE (5)
INVERT TO BE FACTORY MOLDED TO PIPE DIA. OR FILLED TO DIRECT FLOW WITH 3/4" MAXIMUM AGGREGATE, 3500 P.S.I. CONCRETE IF M.H. IS NOT REPLACED

NOTE (7)
ALL STRUCTURES TO BE MADE WITH PRE-CAST INTEGRAL FOOTING BASE. MIN. 6"

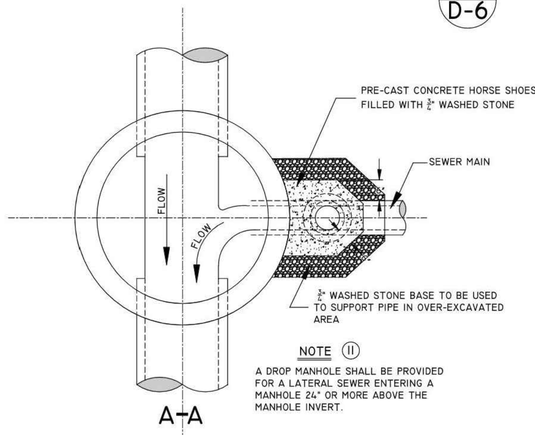
D
D-6

DETAILS OF STANDARD MANHOLE FOR 36" PIPE OR LARGER



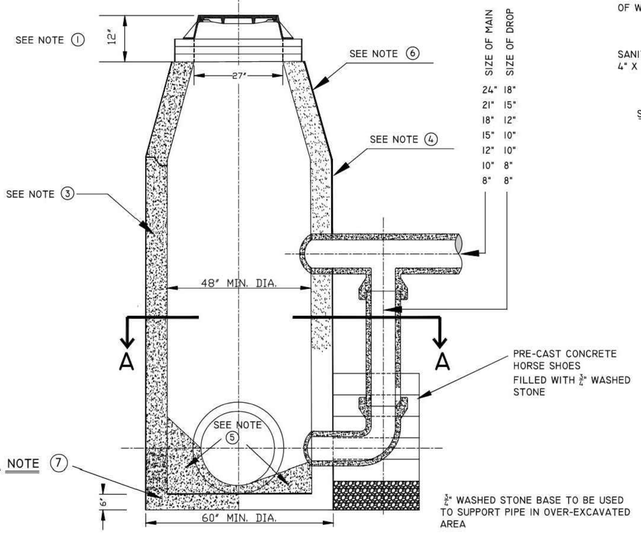
DETAILS OF SEWER TRENCHES

A
D-6



NOTE (11)
A DROP MANHOLE SHALL BE PROVIDED FOR A LATERAL SEWER ENTERING A MANHOLE 24" OR MORE ABOVE THE MANHOLE INVERT.

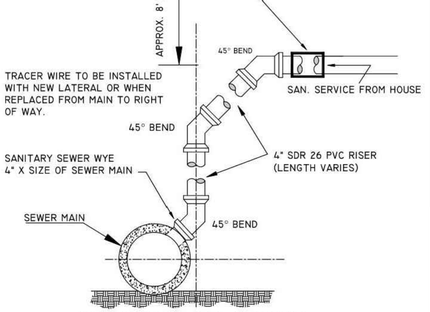
A-A



NOTE (7)

E
D-6

DETAILS OF DROP MANHOLE FOR 30" PIPE OR SMALLER



DETAILS OF RISER FOR HOUSE CONNECTION

F
D-6

PROJECT No.

SANITARY SEWER DETAILS

LOCATION

D-6

RESOLUTION DATE

ENGINEERING DEPT.
City of LaCrosse, Wis.

				BY	DATE
FIELD BOOK	SURVEYED				
	DRAWN	PRELIMINARY			
NUMBER		FINAL			
	CHECKED				
	APPROVED				
PAGE	REVISIONS	M.D.F.	3/03	J.M.C.	6/2015
		J.M.C.	9/03	BFM	2/2019
		M.D.F.	4/06	J.M.C.	8/2019
SCALE: NONE		M.D.F.	12/10	BFM	11/2019
		M.D.F.	4/13	J.M.C.	11/2023

SHEET NO. TOTAL SHEETS

(D-6)sanitary sewer_detail