

CONSTRUCTION PLANS FOR RAISING CANE'S

CONTACT INFORMATION

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

ARCHITECT
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7775 WALTON PARKWAY SUITE 250
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PHONE: 614-545-4550

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

SURVEYOR:
CHAPUT LAND SURVEYS
234 W. FLORIDA STREET
MILWAUKEE, WISCONSIN 53204
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PHONE: 414-224-8068

RESTAURANT # 1148 LA CROSSE, WISCONSIN, 54601



VICINITY MAP
N.T.S.

INDEX OF SHEETS	
C-1.0	COVER SHEET
C-1.1	ALTA SURVEY
C-1.2	EXISTING PLAT (NOT INCLUDED)
C-1.3	RESUBDIVISION PLAT (NOT INCLUDED)
C-2.0	GENERAL NOTES (NOT INCLUDED)
C-3.0	SWPPP SITE PLAN
C-3.1	SWPPP SITE DETAILS
C-4.0	DEMOLITION PLAN (NOT INCLUDED)
C-5.0	SITE KEYNOTE PLAN
C-5.1	DIMENSIONAL CONTROL PLAN
C-5.2	STRIPING & SIGNAGE PLAN
C-5.3	PAVING AND JOINT LAYOUT PLAN (NOT INCLUDED)
C-6.0	GRADING PLAN
C-6.1	PRE-DEVELOPED DRAINAGE PLAN
C-6.2	POST-DEVELOPED DRAINAGE PLAN
C-6.3	STORM DRAINAGE PLAN
C-7.0	UTILITY PLAN
C-8.0	CONSTRUCTION DETAILS
C-8.1	CONSTRUCTION DETAILS
C-9.0	RETAINING WALL PLAN (NOT INCLUDED)
C-9.1	RETAINING WALL DETAILS (NOT INCLUDED)



NOTICE TO CONTRACTORS	
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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 herein 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 Stormwater lines Television cables Saltwater lines	Conduits Water lines Sanitary Sewer lines Oil Production lines
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Raising Cane's
Restaurant #C1148
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P6-VA-V

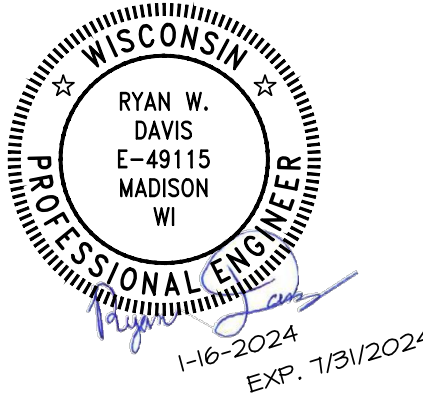
Designer's Information:



BENCHMARK
DESIGN GROUP
CIVIL / ENVIRONMENTAL / PLANNERS
2024 REPUBLIC DRIVE, SUITE B, TYLER, TEXAS 75701 | (903) 534-5353
WWW.BENCHMARK-DESIGN.COM

Prototype Phase: 2023
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SAI Project Manager: PDS

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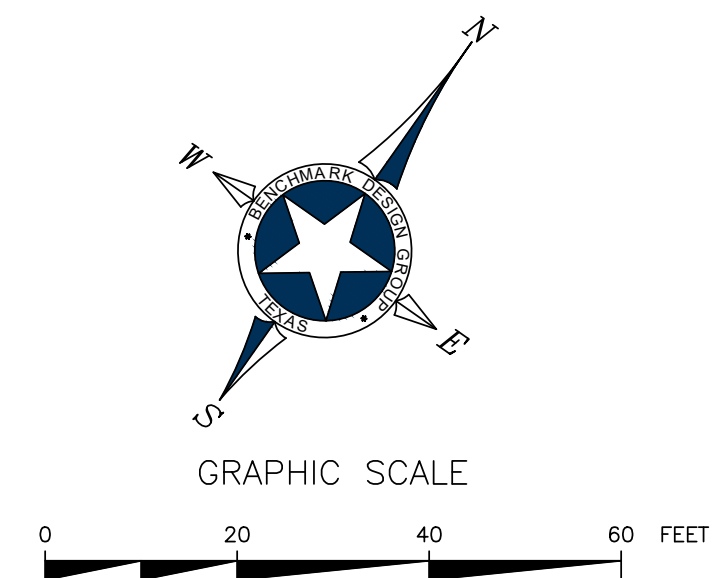
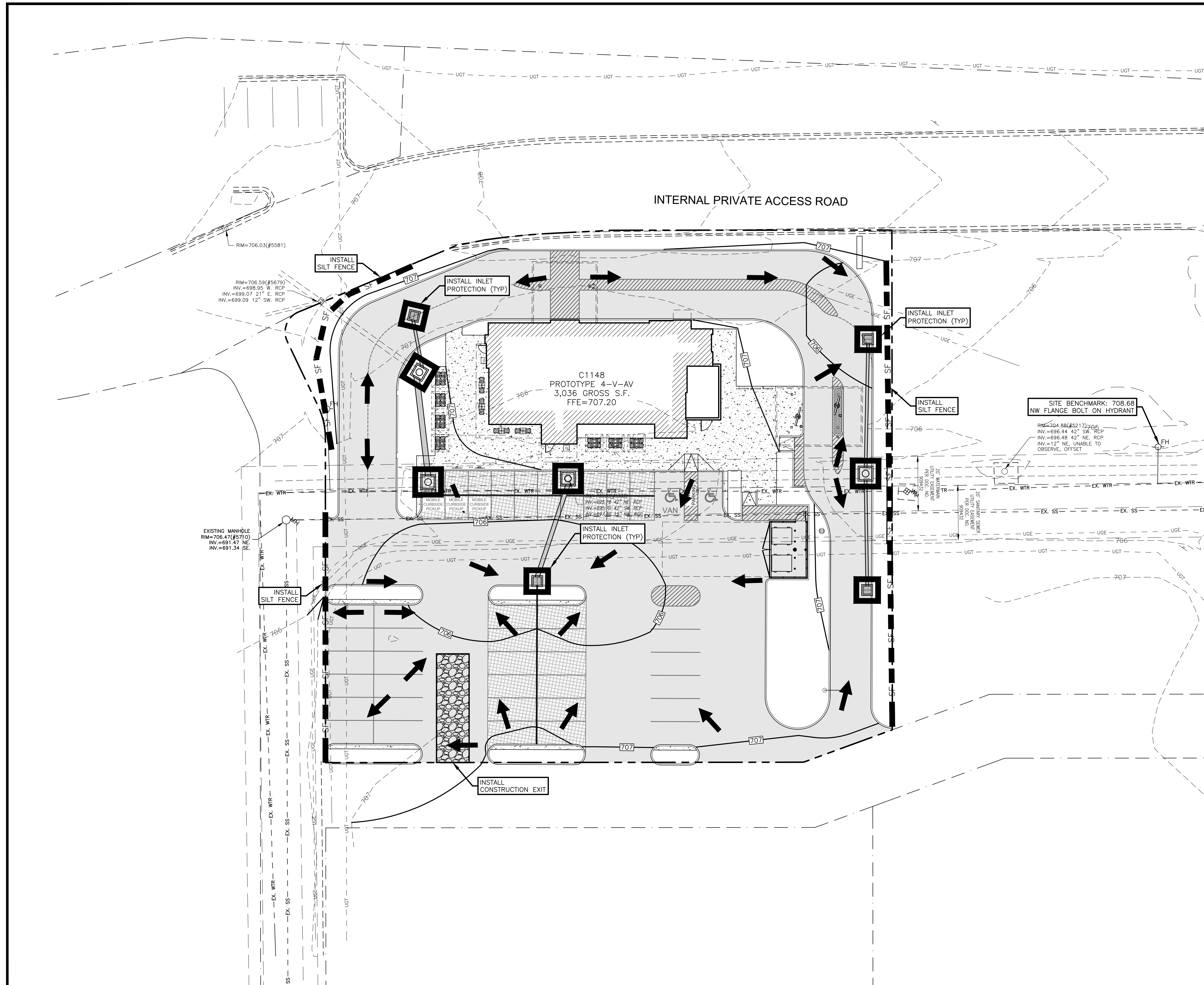
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COVER
SHEET

Sheet Number:

C-1.0

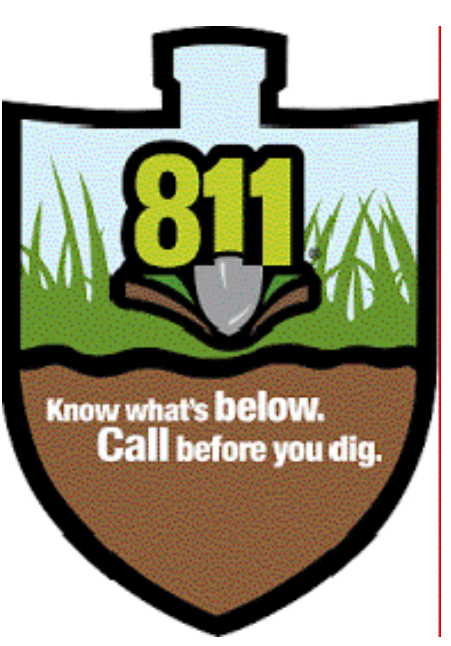
BDG Job Number: 2023.098



- 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 (HAY 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.O	EXISTING CLEANOUT
WV	EXISTING WATER VALVE
WM	EXISTING WATER METER
MH	EXISTING SAN. SEWER MANHOLE
PP	EXISTING POWER POLE
FH	EXISTING FIRE HYDRANT
---	EXISTING OVERHEAD ELECTRIC LINE
---	EXISTING WATER LINE
---	EXISTING SAN. SEWER LINE
---	PROPERTY LINE
---	EXISTING 1' CONTOUR
---	EXISTING 5' CONTOUR
---	PROPOSED 1' CONTOUR
---	PROPOSED 5' CONTOUR
---	PROPOSED DRAINAGE PATTERN
---	PROPOSED SILT FENCE



NOTE:

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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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
Stormwater lines	Water lines	Gas lines
Television cables	Sanitary Sewer lines	Oil Production lines
Saltwater lines		

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Raising Cane's
Restaurant #C1148
La Crosse, Wi. 54601
P6-VA-V



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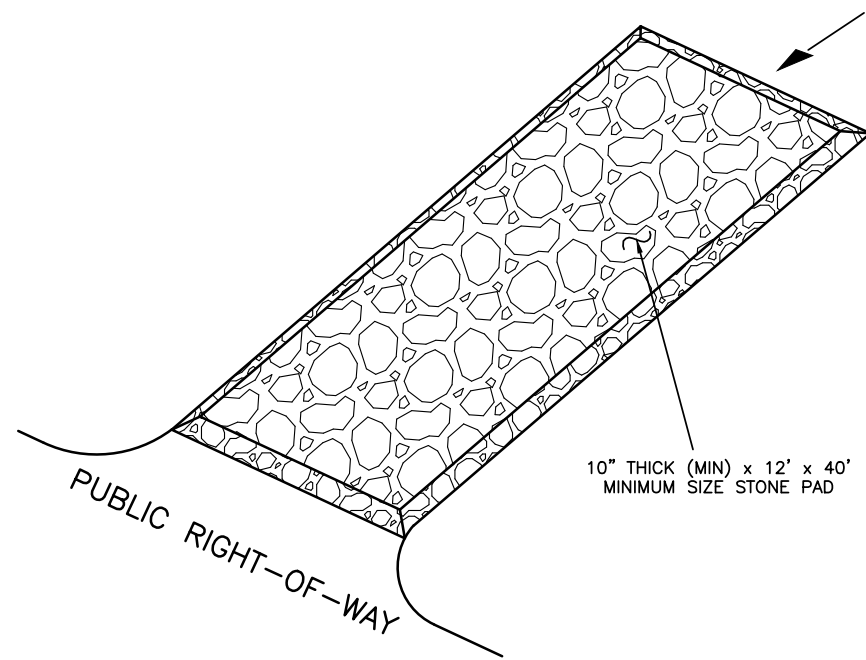


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SWPPP SITE PLAN

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C-3.0

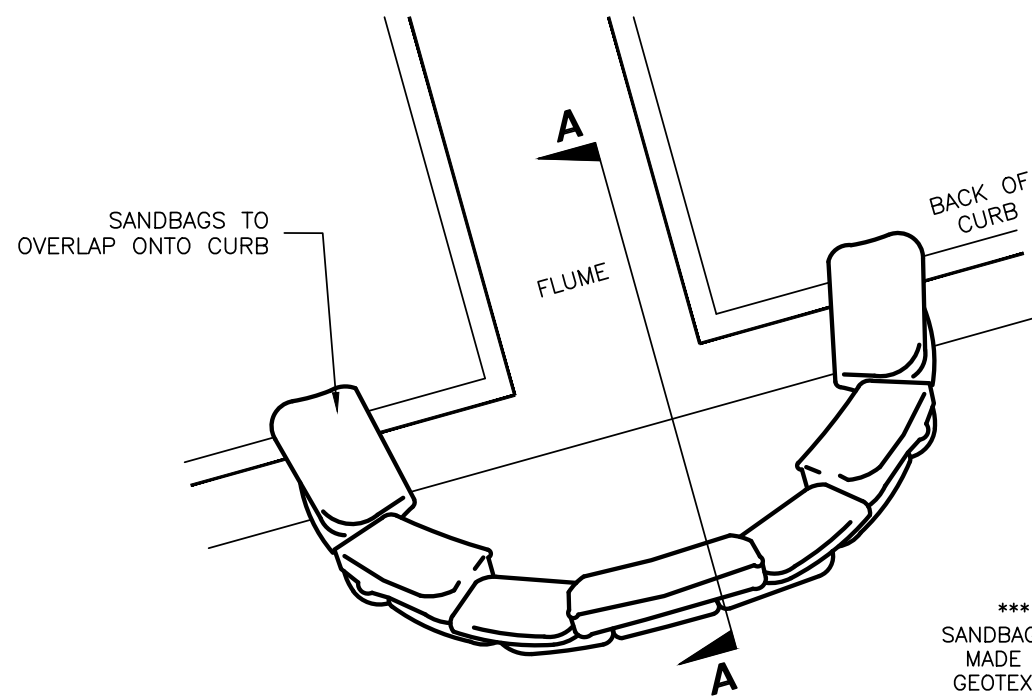


TEMPORARY CONSTRUCTION
EXIT POINT DETAIL

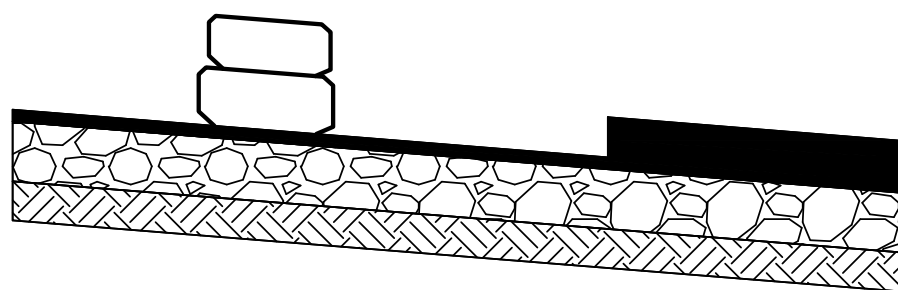
CONSTRUCTION NOTES:

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

- 1) 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.
- 2) 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.
- 3) ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHT-OF-WAY MUST BE REMOVED IMMEDIATELY.

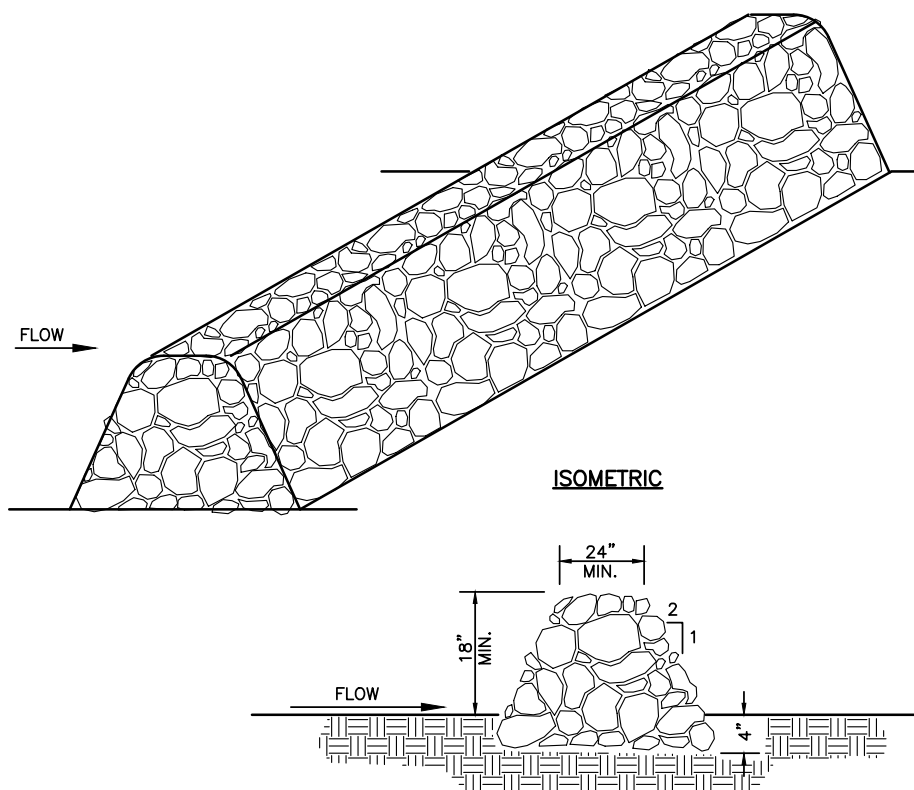


PLAN



SECTION 'A-A'

FLUME SEDIMENT BARRIER
NTS



ROCK BERM DETAILS

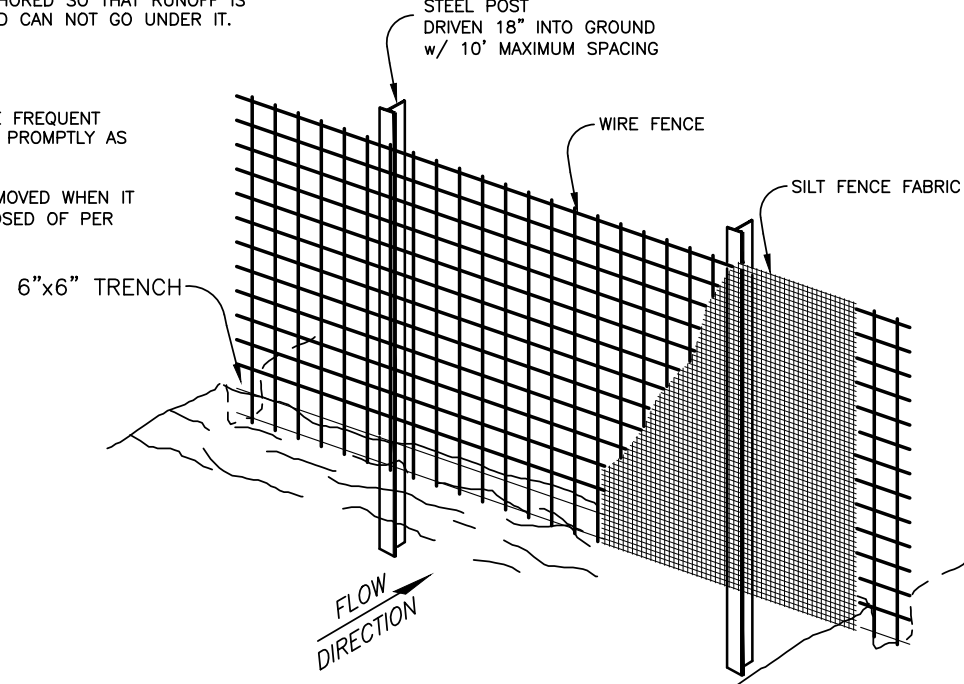
1. USE ONLY OPEN-GRADED ROCK, WITH MOST OF THE FINES REMOVED.
2. STONE SHALL BE CRUSHED, MIN. 3" DIAMETER, MAX. 1 CU. FT. IN VOLUME.
3. THE ROCK BERM SHALL BE EMBEDDED INTO THE SOIL A MINIMUM OF 4 INCHES.
4. INSPECT BERM AFTER EACH RAIN. REPLACE STONE WHEN THE STRUCTURE FAILS TO SERVE ITS PURPOSE DUE 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.

STEPS FOR CONSTRUCTION:

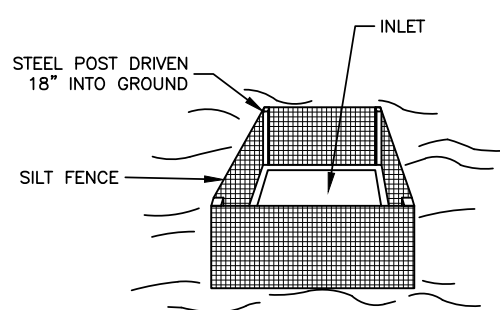
- 1) DRIVE POST 18" INTO GROUND AND EXCAVATE A 6"x6" TRENCH UPHILL ALONG THE LINE OF POST.
- 2) ATTACH WIRE FENCE TO THE POST AND EXTEND BOTTOM OF FENCE 6" INTO THE EXCAVATED TRENCH.
- 3) ATTACH THE SILT FABRIC TO THE WIRE FENCE AND EXTEND THE BOTTOM OF THE FABRIC 6" INTO THE TRENCH.
- 4) BACKFILL THE TRENCH WITH SOIL & COMPACT OR PLACE WASHED STONE TO THE HEIGHT OF 6" ABOVE GROUND LEVEL. BOTTOM OF FENCE MUST BE ANCHORED SO THAT RUNOFF IS FORCED THROUGH THE FENCE AND CAN NOT GO UNDER IT.

INSPECTION & MAINTENANCE:

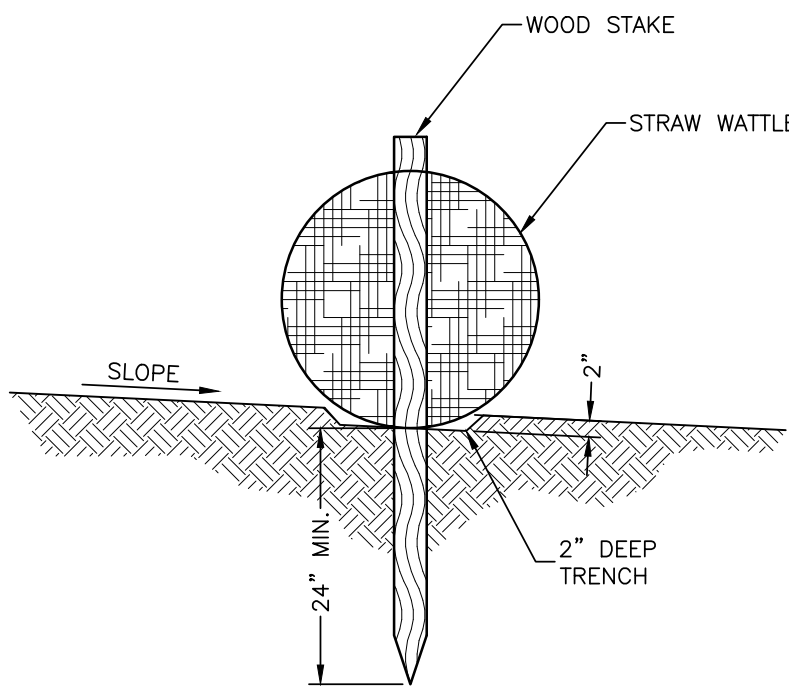
- 1) INSPECTION OF FENCES SHALL BE FREQUENT AND REPAIR OR REPLACEMENT MADE PROMPTLY AS NEEDED.
- 2) ACCUMULATED SILT SHALL BE REMOVED WHEN IT REACHES A DEPTH OF 6" AND DISPOSED OF PER OWNER/ENGINEER.



SILT FENCE DETAIL



INLET PROTECTION
FILTER BARRIER
N.T.S.



STRAW WATTLE DETAIL
N.T.S.



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Tele: 972-769-3100 Fax: 972-769-3101

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P6-VA-V

Designer's Information:



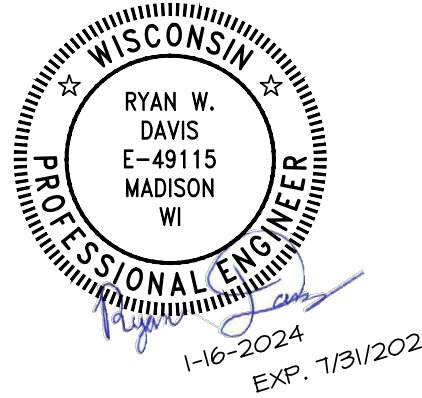
BENCHMARK
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2024 REPUBLIC DRIVE, SUITE B, TWIN ROAD 75021 • (972) 234-5353
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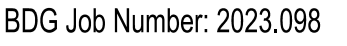
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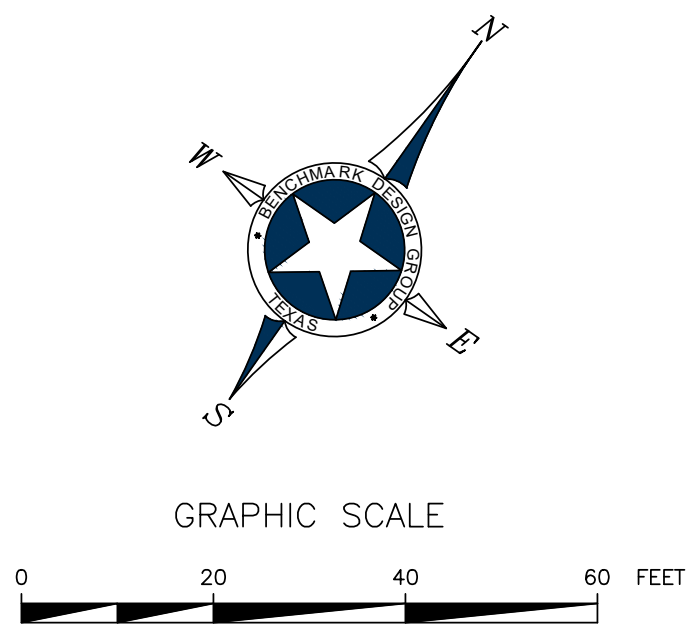
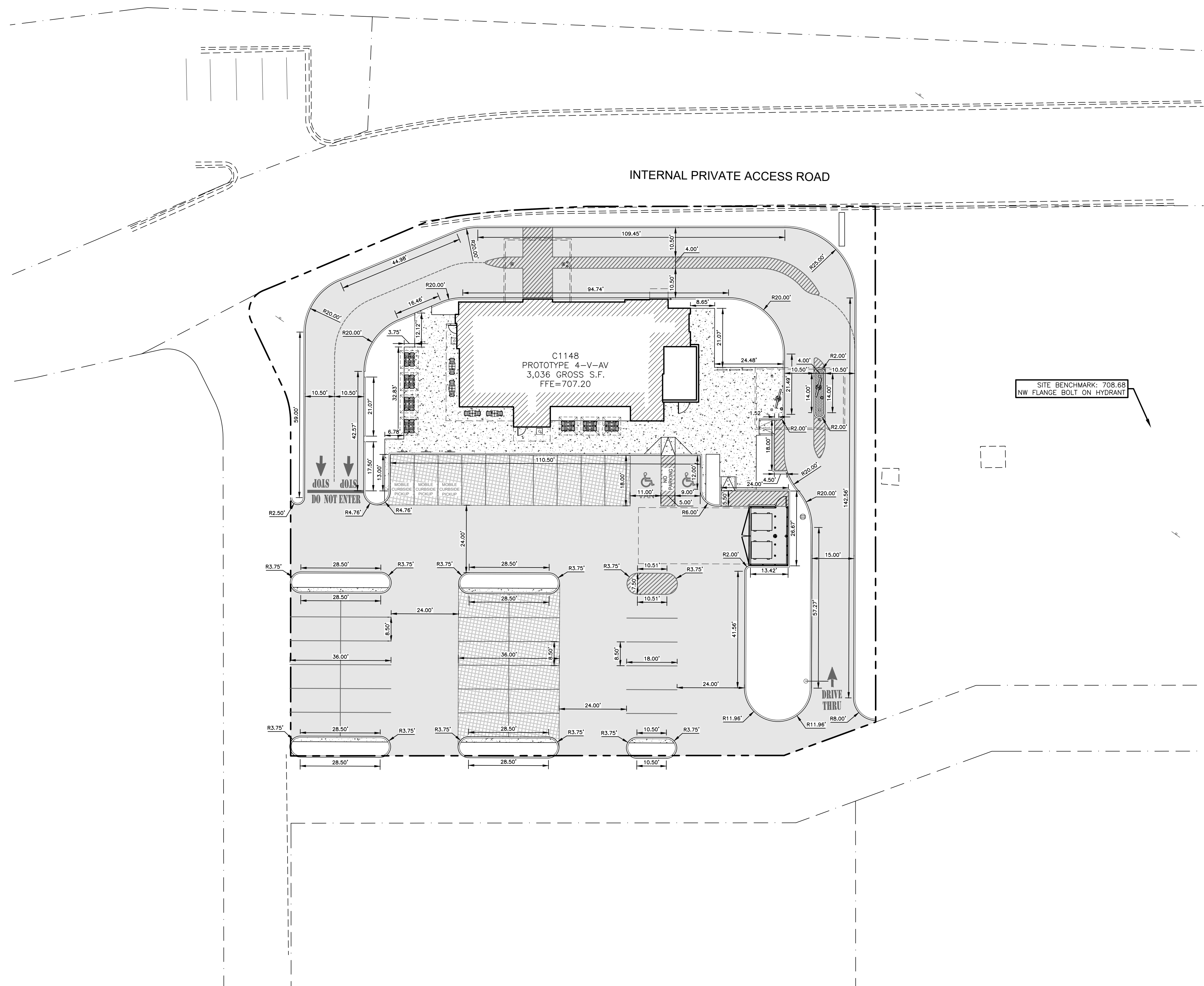
SWPPP SITE
DETAILS

Sheet Number:

C-3.1

BDG Job Number: 2023.098





LEGEND

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---	PROPOSED LP
---	EXISTING OVERHEAD ELECTRIC LINE
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---	EXISTING SAN. SEWER LINE
---	PROPERTY LINE
⊗	PARKING SPACE COUNT
⊗	PROPOSED "LEVEL" LANDING (SLOPE OF LANDING SHALL NOT EXCEED 2% IN ANY DIRECTION)

SITE NOTES:

- 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.
- ALL SIGNS PLACED IN AREAS ACCESSIBLE BY VEHICLE TRAFFIC SHALL BE PLACED IN GUARD POST.
- ALL TRAFFIC CONTROL SIGNS SHALL BE FABRICATED AS SHOWN IN THE NATIONAL MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS.
- ALL CURB RADI SHOWN ARE TO FACE OF CURB.
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- CONTRACTOR IS RESPONSIBLE FOR PROTECTION & REPLACEMENT OF ALL PROPERTY CORNERS.
- CONTRACTOR SHALL MATCH EXISTING PAVEMENT IN GRADE AND ALIGNMENT.
- CONTRACTOR SHALL MATCH EXISTING CURB AND GUTTER IN GRADE, SIZE, TYPE AND ALIGNMENT AT ADJACENT ROADWAYS.
- THE EARTHWORK FOR ALL BUILDING SLABS SHALL BE IN ACCORDANCE WITH ARCHITECTURAL BUILDING PLANS AND SPECIFICATIONS.
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- 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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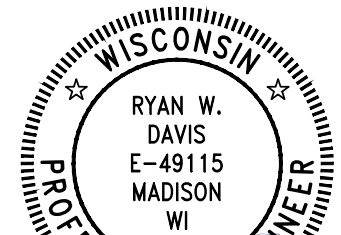
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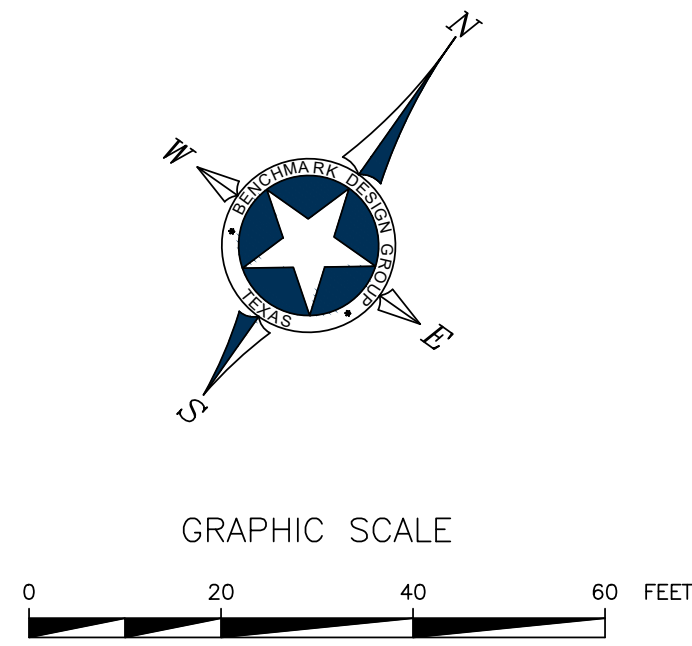
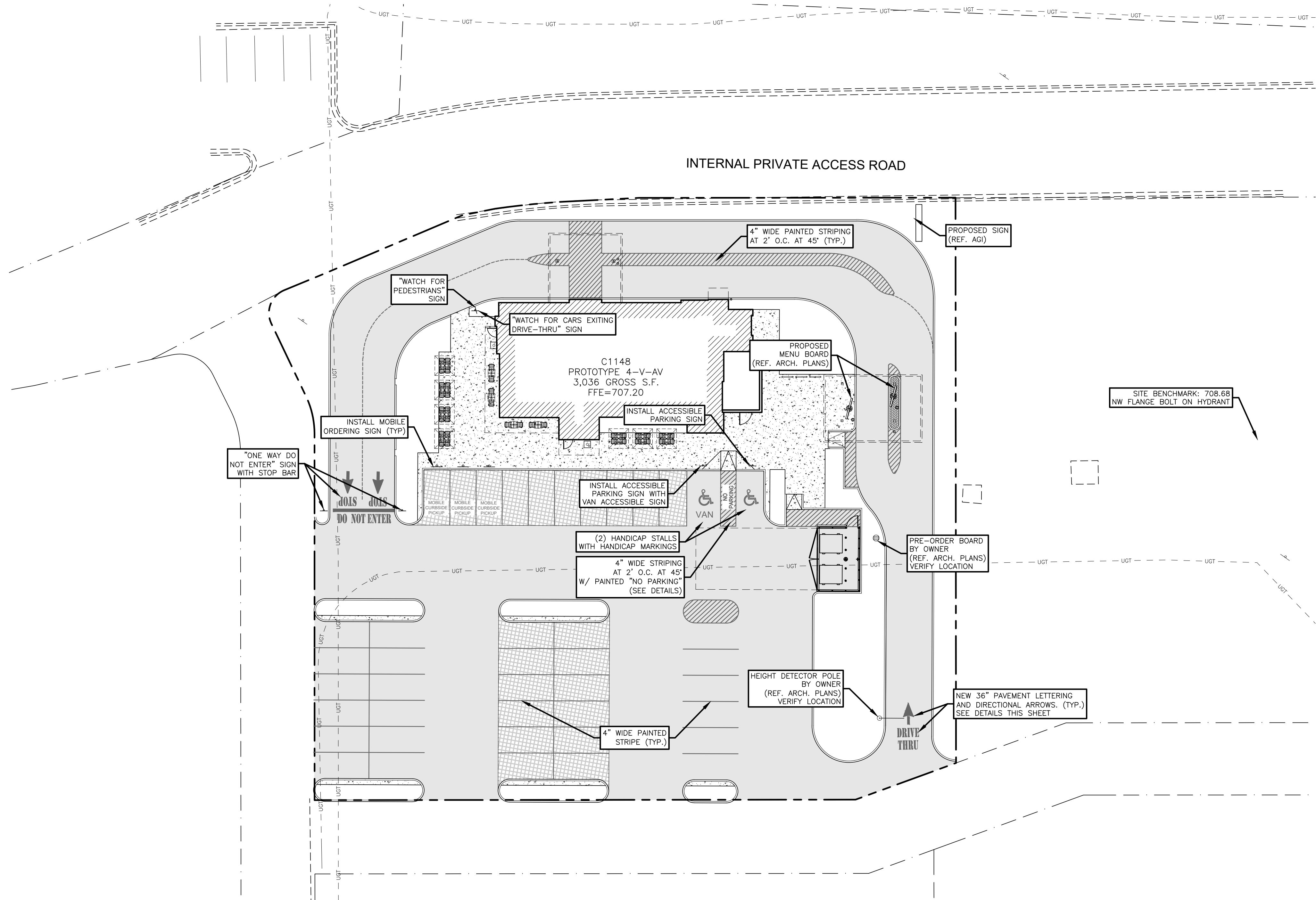
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DIMENSIONAL
CONTROL PLAN

Sheet Number:

C-5.1

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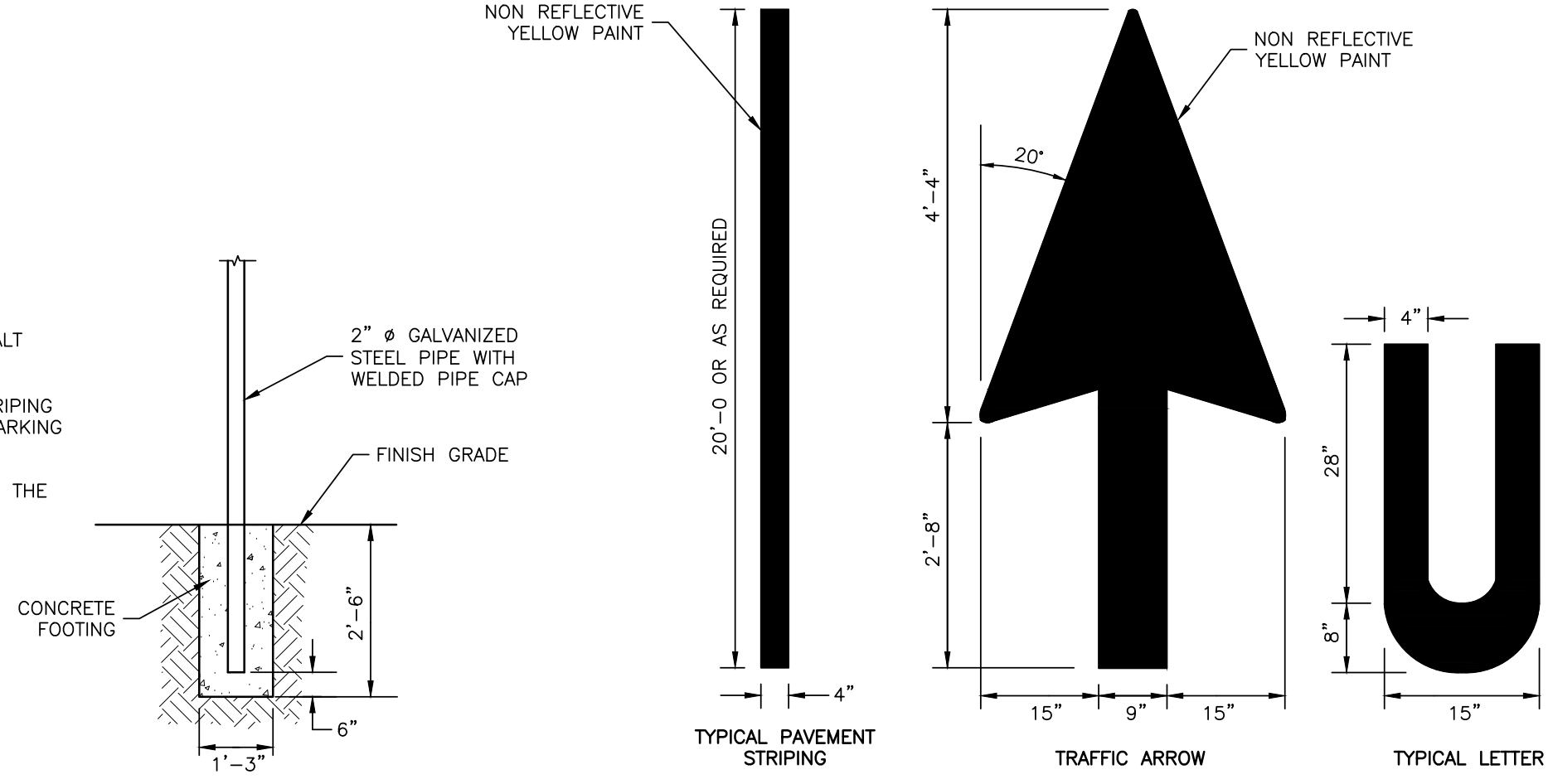


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PARKING LOT NOTES:

- PARKING STALLS MUST BE STRIPED WITH A 4 INCH CONTRASTING STRIPE (YELLOW ON CONCRETE AND YELLOW OR WHITE ON ASPHALT PARKING LOT).
- 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.
- 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.

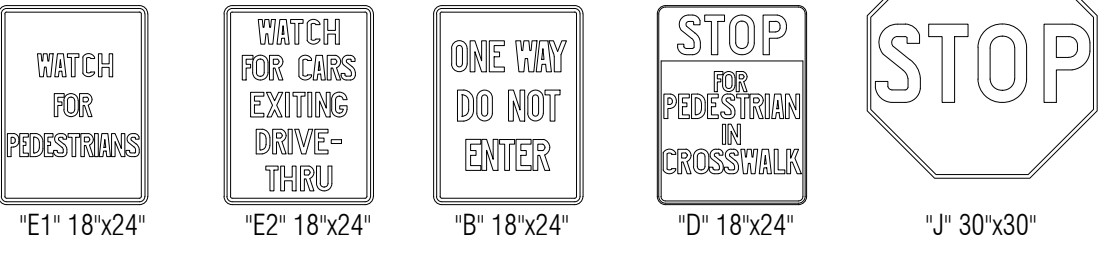


PARKING LOT SIGNAGE FOOTING
SCALE: NTS

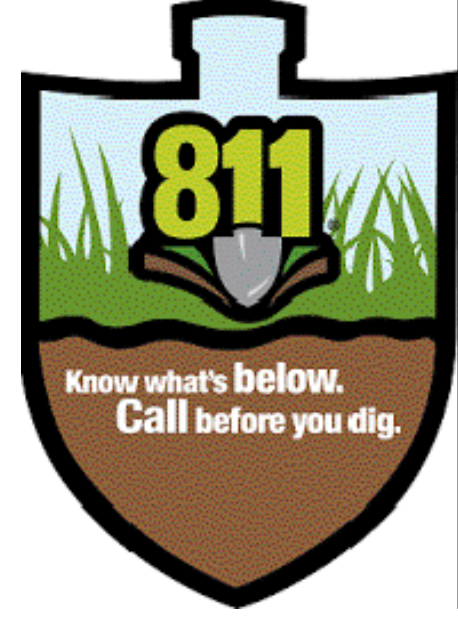
TYPICAL PAVEMENT MARKINGS
SCALE: NTS

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



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 - 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
Stormwater lines	Water lines	Gas lines
Television cables	Sanitary Sewer lines	Oil Production lines
Salwater 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.



Restaurant:

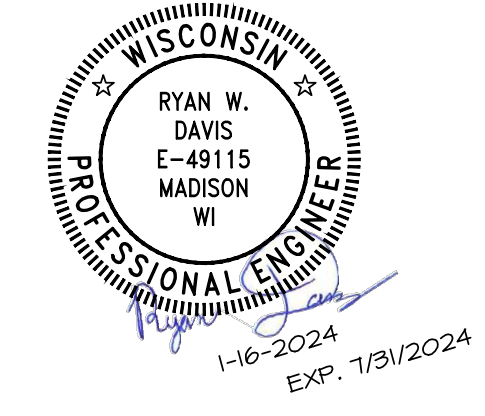
Raising Cane's
Restaurant #C1148
La Crosse, Wi. 54601
P6-VA-V

Designer's Information:



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

SET-VERSION
SET-VERSION-DATE



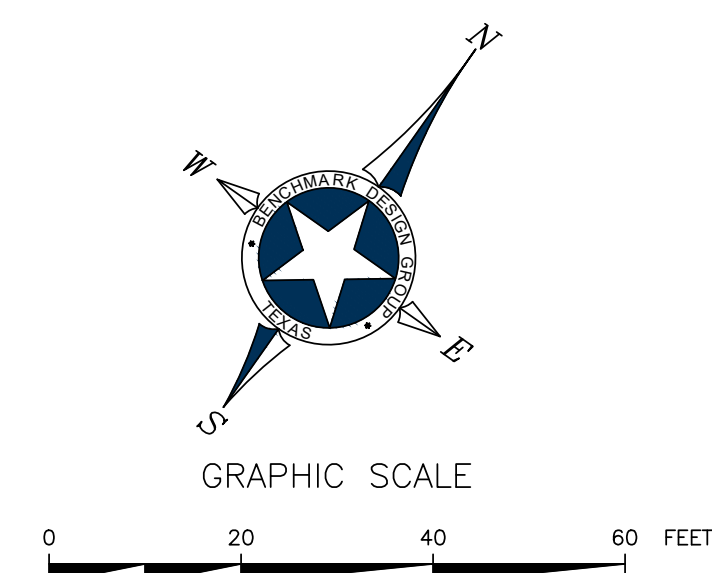
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#	Date	Description
1	1.11.24	DESCRIPTION

Sheet Title:

STRIPING AND SIGNAGE PLAN

Sheet Number:

















C-5.2



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, STRUCTURES, 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 LANDSCAPE 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 AN 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.O		EXISTING CLEANOUT
WV		EXISTING WATER VALVE
WM		EXISTING WATER METER
MH		EXISTING SAN. SEWER MANHOLE
PP-O		EXISTING POWER POLE
FH		EXISTING FIRE HYDRANT
---		EXISTING OVERHEAD ELECTRIC LINE
---		EXISTING WATER LINE
---		EXISTING SAN. SEWER LINE
=====		PROPERTY LINE
---		EXISTING 1' CONTOUR
---		EXISTING 5' CONTOUR
<u>---</u>		PROPOSED 1' CONTOUR
<u>---</u>		PROPOSED 5' CONTOUR
<u>---</u>		PROPOSED SPOT GRADE
<p>T/C = TOP OF CURB T/P = TOP OF PAVEMENT T/S = TOP OF SIDEWALK F/G = FINISHED GRADE</p>		
<p> PROPOSED "LEVEL" LANDING (SLOPE OF LANDING SHALL NOT EXCEED 2% IN ANY DIRECTION)</p>		



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4. Geographic information in the construction documents is a reflection of information provided by CHAPUT LAND SURVEYS.
5. The contractor shall be responsible for 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 information.
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Restaurant:

**Raising Cane's
Restaurant #C1148
La Crosse, Wi. 54601
P6-VA-V**

Designer's Information:



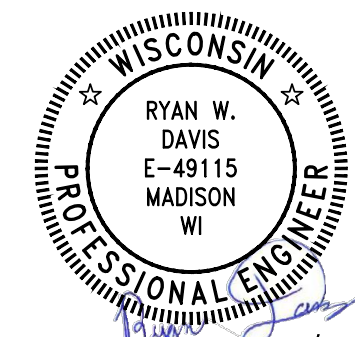
BENCHMARK
DESIGN GROUP
CIVIL / ENVIRONMENTAL / PLANNERS
2026 REPUBLIC DRIVE, SUITE B TYLER TEXAS 75701 - (903) 534-5353
WWW.BENCHMARK-ENGINEERS.COM

Prototype Phase:	2023
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Project Issue Date: 00-00-0000

SAI Project Manager: PDS

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SET-VERSION
SET-VERSION-DATE
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1-16-2024
EXP. 7/31/202

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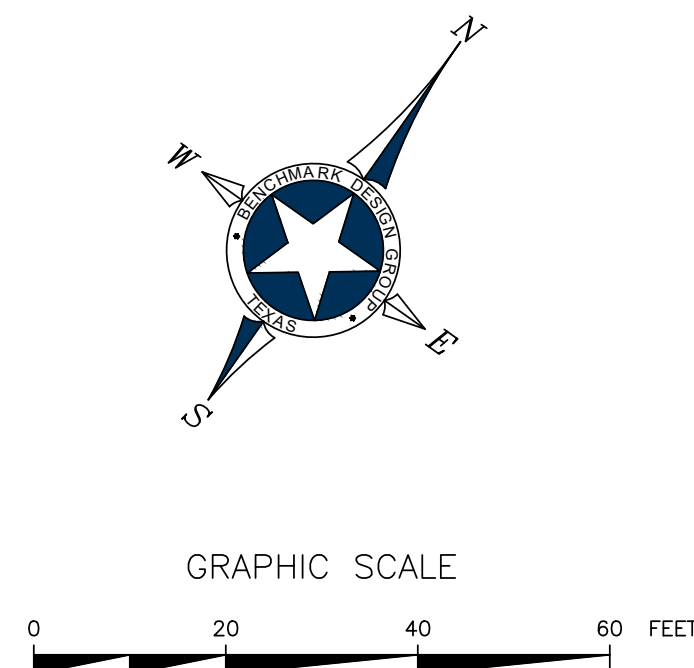
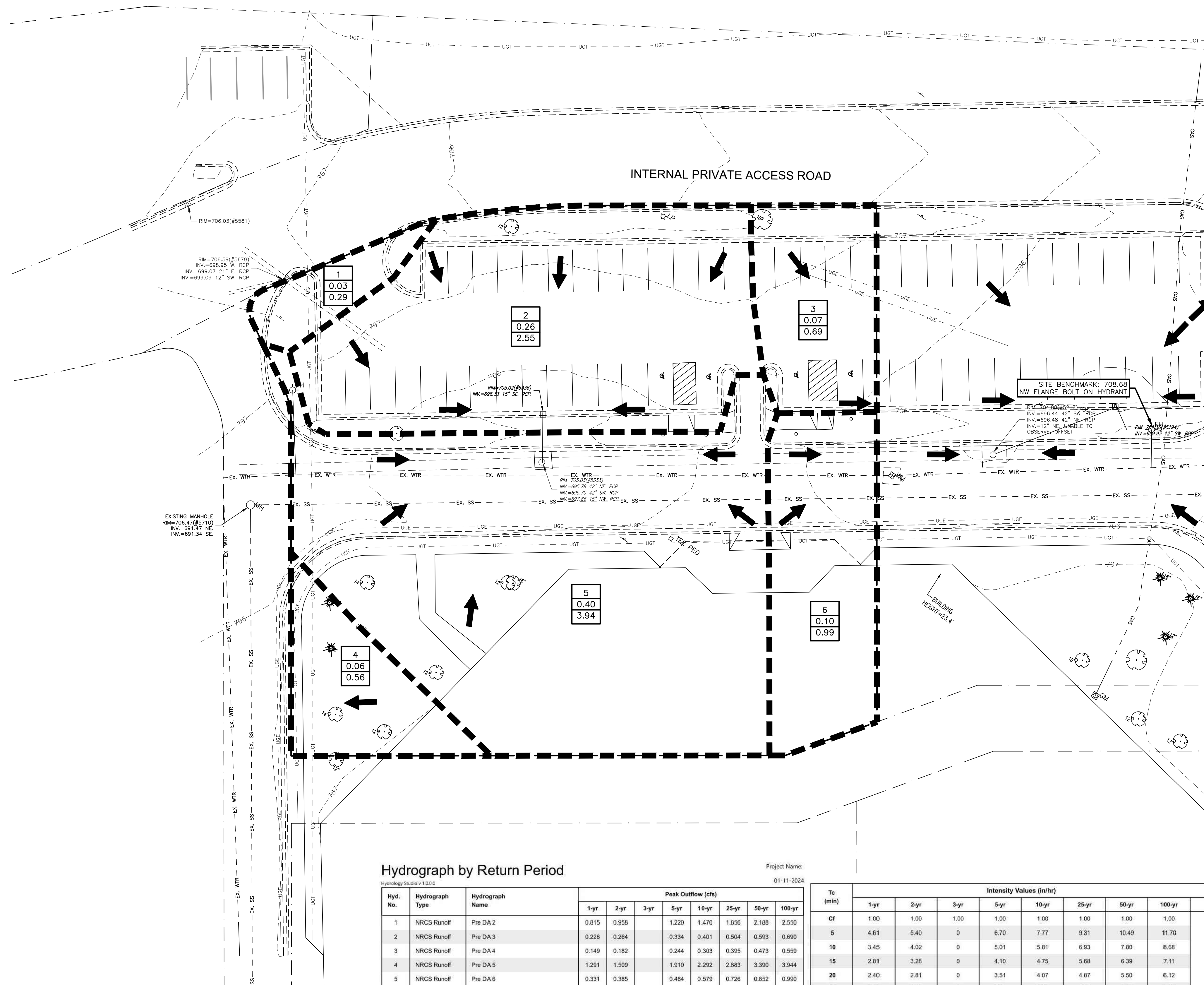
GRADING PLAN

Sheet Number:

C-6.0

BDG Job Number: 2023.098

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



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
---	EXISTING OVERHEAD ELECTRIC LINE
---	EXISTING WATER LINE
---	EXISTING SAN. SEWER LINE
---	PROPERTY LINE
---	EXISTING 1' CONTOUR
---	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

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	0.157	0.184		0.235	0.283	0.357	0.421	0.490
9	NRCS Runoff	Post DA 4	1.452	1.697		2.148	2.579	3.243	3.814	4.437
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	2.885	3.387		4.310	5.192	6.554	7.726	9.005

Project Name:
01-11-2024

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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 - Conduits
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 - Pipes
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Raising Cane's
Restaurant #C1148
La Crosse, Wi. 54601
P6-VA-V

Designer's Information:



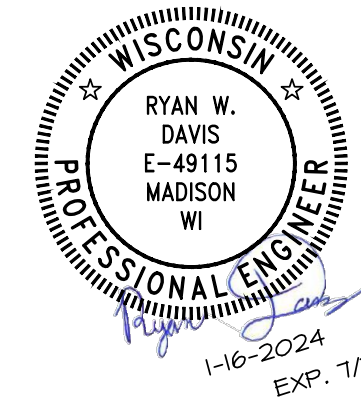
BENCHMARK
DESIGN GROUP
CIVIL / ENVIRONMENTAL / PLANNERS
2024 REPUBLIC DRIVE, SUITE B, TEXAS ROAD 75051 - (972) 534-5353
WWW.BENCHMARK-DESIGNERS.COM

Prototype Phase: 2023

Project Issue Date: 00-00-0000

SAI Project Manager: PDS

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SET-VERSION-DATE



Sheet Versions:

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1	1.11.24	DESCRIPTION

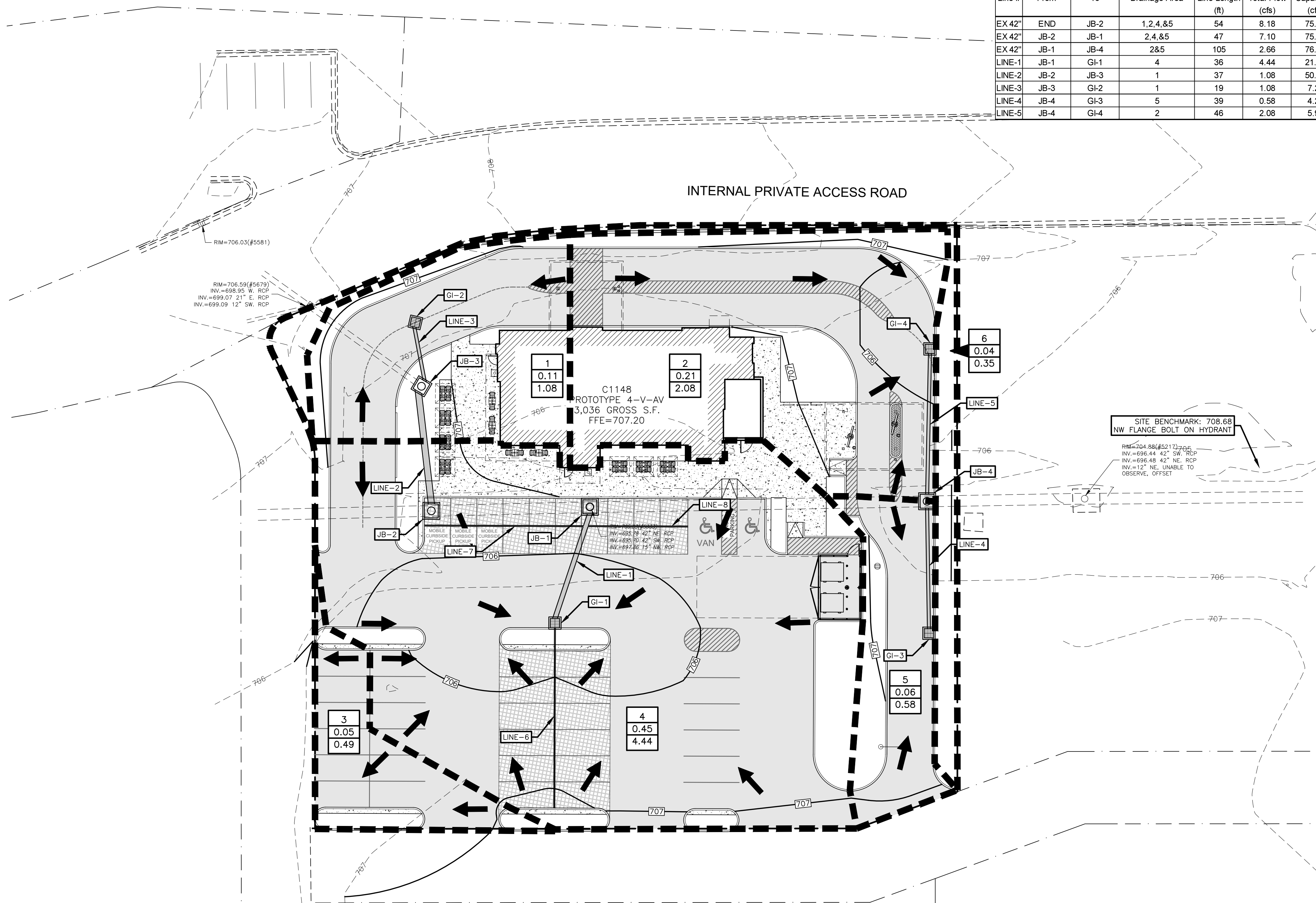
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PREDEVELOPED
DRAINAGE PLAN

Sheet Number:

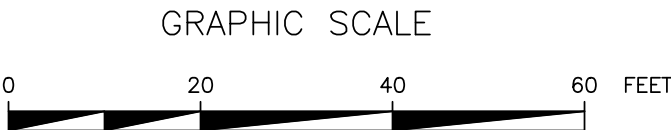
C-6.1

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	1,2,4,8,5	54	8.18	75.90	4.53	42	0.41	695.29	695.51	696.12	696.39
EX 42"	JB-2	JB-1	2,4,8,5	47	7.10	75.60	3.44	42	0.40	695.51	695.70	696.59	696.53
EX 42"	JB-1	JB-4	28,5	105	2.66	76.09	1.70	42	0.41	695.78	696.21	696.83	696.83
LINE-1	JB-1	GI-1	4	36	4.44	21.50	5.99	18	3.00	697.70	698.78	698.26	699.58
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



LEGEND

TEL PED □	EXISTING TELEPHONE PEDESTAL
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WV □	EXISTING WATER VALVE
WM □	EXISTING WATER METER
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---	PROPOSED DRAINAGE DELINEATION
X	= DRAINAGE AREA NUMBER
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X.XX	= 100-YR RUNOFF (CFS)



Hydrograph by Return Period

Hyd. No.	Hydrograph Type	Hydrograph Name	Peak Outflow (cfs)							
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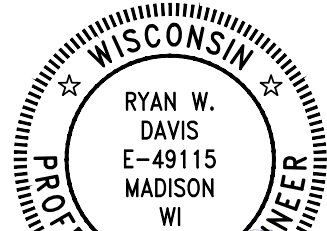
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Prototype Phase: 2023

Project Issue Date: 00-00-0000

SAI Project Manager: PDS

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1-16-2024
EXP. 7/31/2024

Sheet Versions:

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1	1.11.24	DESCRIPTION

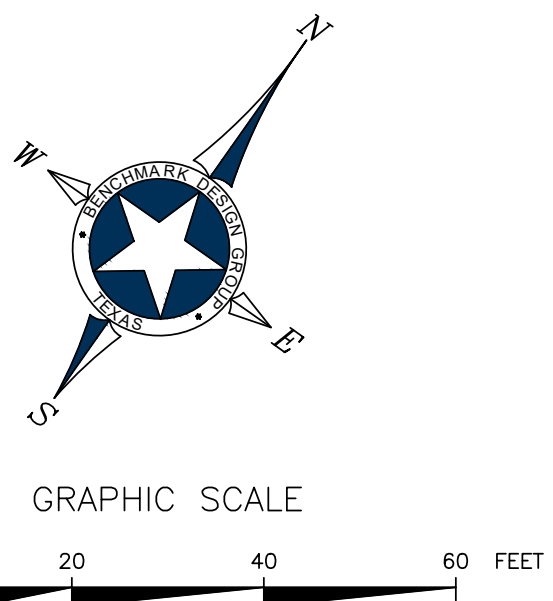
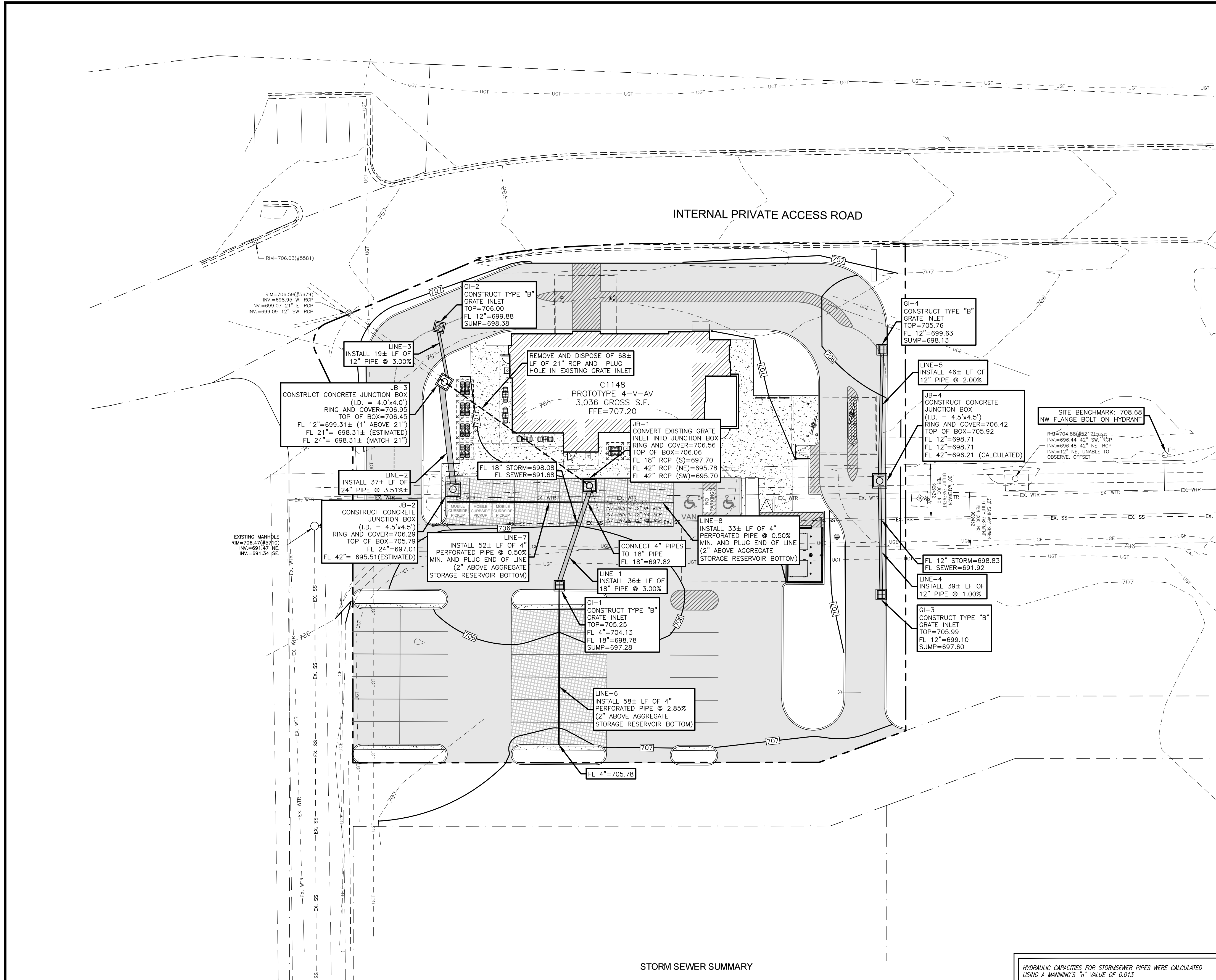
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POSTDEVELOPED
DRAINAGE PLAN

Sheet Number:

C-6.2

BDG Job Number: 2023.098



- GRADING NOTES:**
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 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.O	EXISTING CLEANOUT
WV	EXISTING WATER VALVE
WM	EXISTING WATER METER
MH	EXISTING SAN. SEWER MANHOLE
PP	EXISTING POWER POLE
FH	EXISTING FIRE HYDRANT
---	EXISTING OVERHEAD ELECTRIC LINE
---	EXISTING WATER LINE
---	EXISTING SAN. SEWER LINE
---	PROPERTY LINE
---	EXISTING 1' CONTOUR
---	EXISTING 5' CONTOUR
---	PROPOSED 1' CONTOUR
---	PROPOSED 5' CONTOUR
---	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	1,2,4,8,5	54	8.18	75.90	4.53	42	0.41	695.29	695.51	696.12	696.39
EX 42"	JB-2	JB-1	2,4,8,5	47	7.10	75.60	3.44	42	0.40	695.51	695.70	696.59	696.53
EX 42"	JB-1	JB-4	28,5	105	2.66	76.09	1.70	42	0.41	695.78	696.21	696.83	696.83
LINE-1	JB-1	GI-1	4	36	4.44	21.50	5.99	18	3.00	697.70	698.78	698.26	699.58
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

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
 - Stormwater lines
 - Water lines
 - Sanitary Sewer lines
 - 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.



Restaurant:

Raising Cane's
Restaurant #C1148
La Crosse, WI. 54601
P6-VA-V



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

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SET-VERSION-DATE



Sheet Versions:

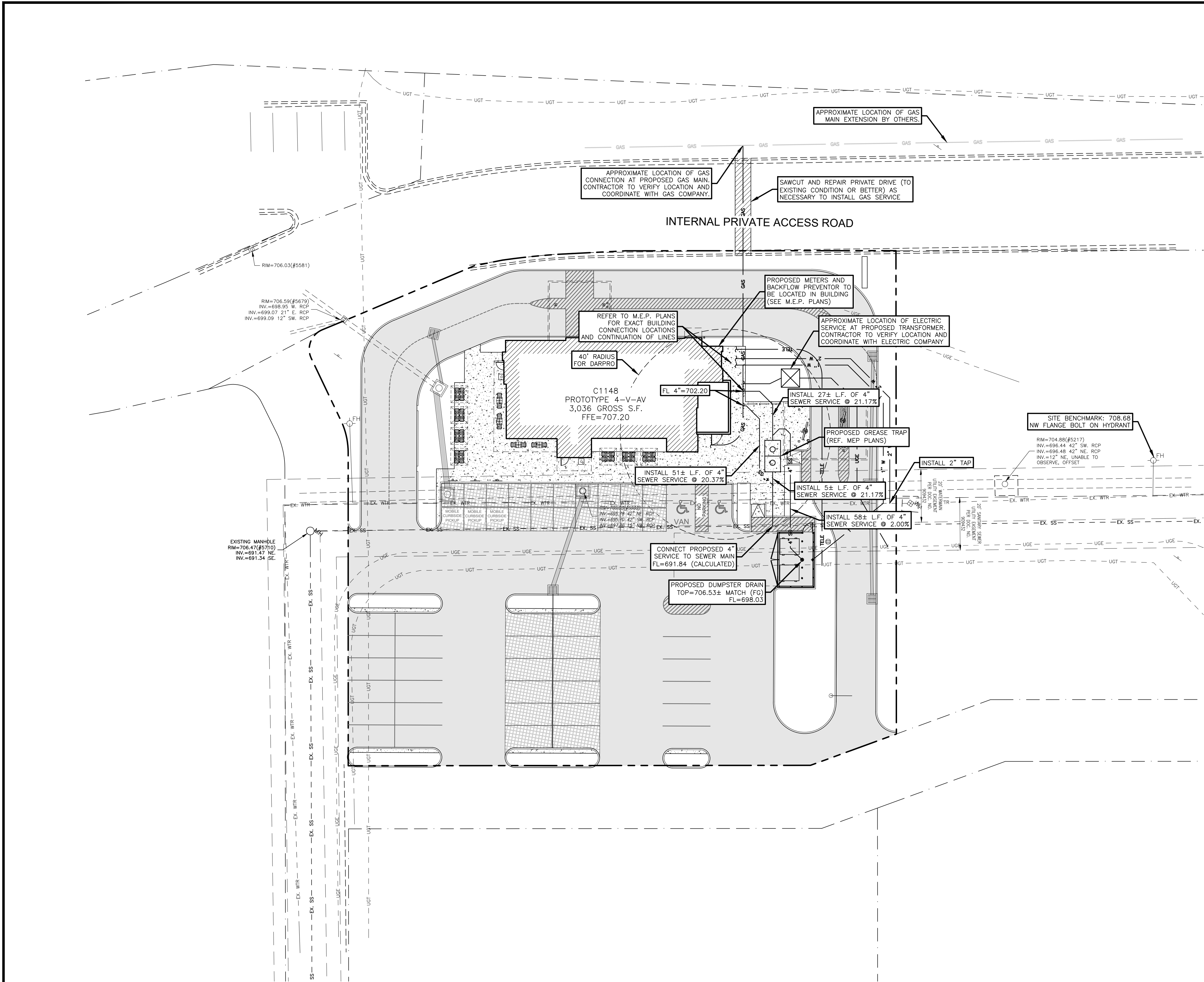
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1	1.11.24	DESCRIPTION

Sheet Title:

STORM DRAINAGE PLAN

Sheet Number:

C-6.3



GRAPHIC SCALE



UTILITY CONSTRUCTION NOTES:

- 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.
- 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.
- CONTRACTOR SHALL, ON ALL UTILITIES, COORDINATE INSPECTION WITH APPROPRIATE AUTHORITIES PRIOR TO COVERING TRENCHES.
- 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.
- ADJUST PAVEMENT AND/OR CURB ELEVATIONS AS NECESSARY TO ASSURE A SMOOTH FIT AND CONTINUOUS GRADE WITH EXISTING.
- CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL UTILITIES AND NOTIFYING THE APPROPRIATE UTILITY COMPANY PRIOR TO BEGINNING CONSTRUCTION.
- CONTRACTOR SHALL VERIFY HORIZONTAL AND VERTICAL LOCATION OF ALL EXISTING STORM SEWER STRUCTURES, PIPES, AND ALL UTILITIES PRIOR TO CONSTRUCTION.
- 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.
- CONTRACTOR SHALL COORDINATE WITH ARCHITECTURAL PLANS, POWER COMPANY, TELEPHONE COMPANY AND GAS COMPANY FOR ACTUAL ROUTING OF POWER AND SERVICES TO BUILDING.
- CONSTRUCTION SHALL COMPLY WITH ALL GOVERNING CODES AND BE CONSTRUCTED TO SAME.
- CONTRACTOR TO REFER TO LANDSCAPING/ARCHITECTURAL PLANS AND/OR OWNER FOR LOCATIONS OF PROPOSED LIGHT STANDARDS AND UTILITY SLEEVING.
- REFER TO M.E.P. PLANS FOR ELECTRIC, GAS, TELEPHONE, CABLE AND ANY OTHER NECESSARY UTILITIES SERVICES, OTHER THAN WATER AND SANITARY SEWER.

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
---	EXISTING OVERHEAD ELECTRIC LINE
---	EXISTING WATER LINE
---	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



NOTICE TO CONTRACTORS

- These plans are subject to review and approval by all jurisdictions having authority.
 - Contractor shall appropriately notify all relevant entities prior to digging on this project.
 - The contractor shall notify the engineer, in writing, of any errors or discrepancies discovered in the construction documents immediately.
 - The topographic information shown hereon is a reflection of the information provided by CHART 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.
 - 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
Stormwater 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 liability and associated costs.



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

Restaurant:

Raising Cane's
Restaurant #C1148
La Crosse, Wi. 54601
P6-VA-V

Designer's Information:



BENCHMARK
DESIGN GROUP
CIVIL / ENVIRONMENTAL / PLANNERS
2024 REPUBLIC DRIVE, SUITE B, TIER ROAD 7501 - (972) 234-5303
WWW.BENCHMARKDESIGNGROUP.COM

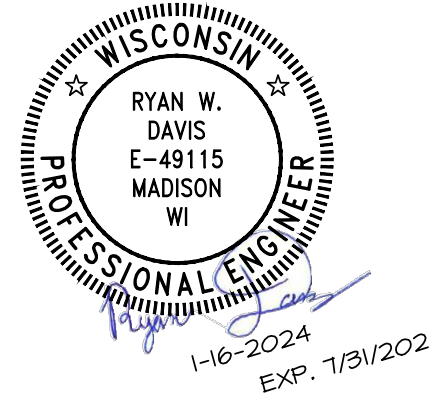
Prototype Phase: 2023

Project Issue Date: 00-00-0000

SAI Project Manager: PDS

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Sheet Versions:

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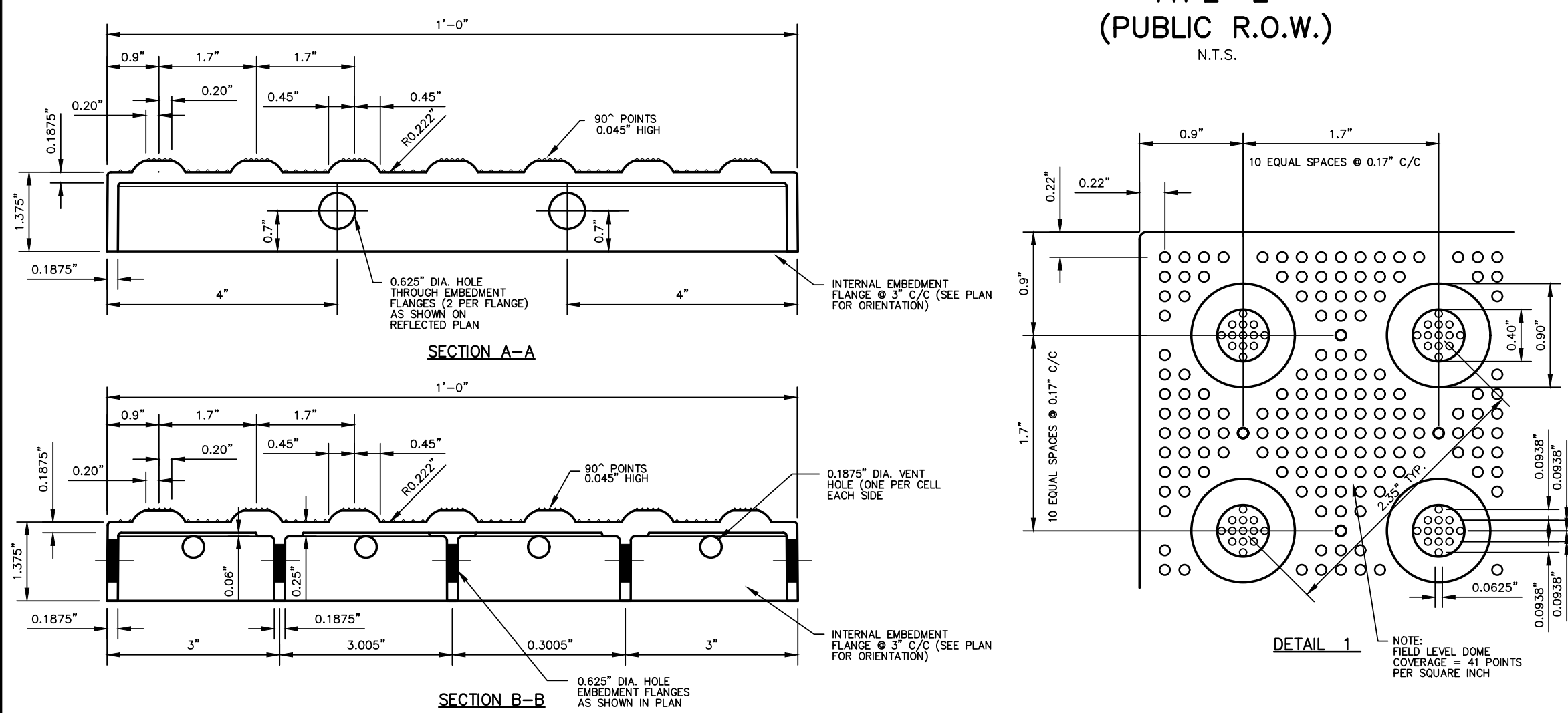
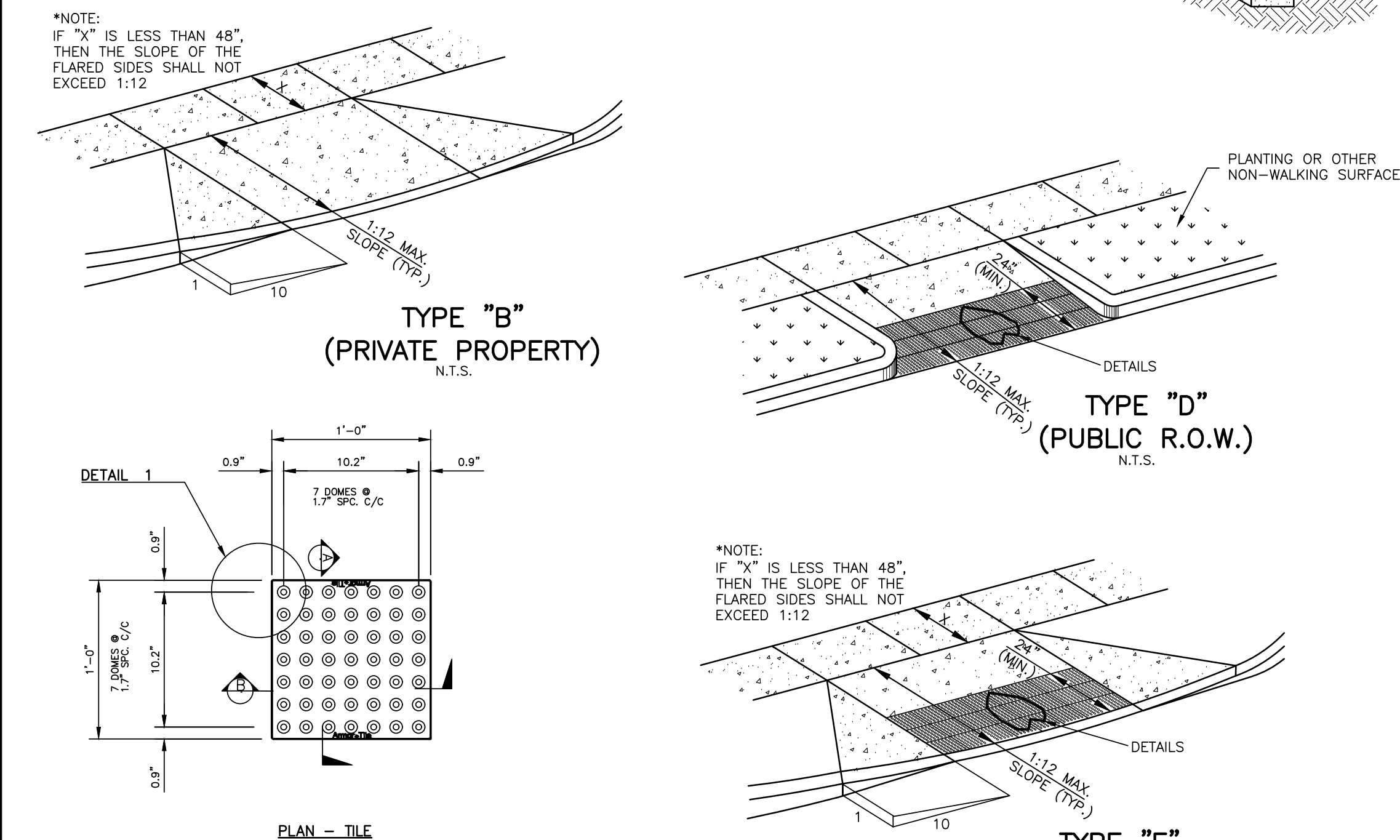
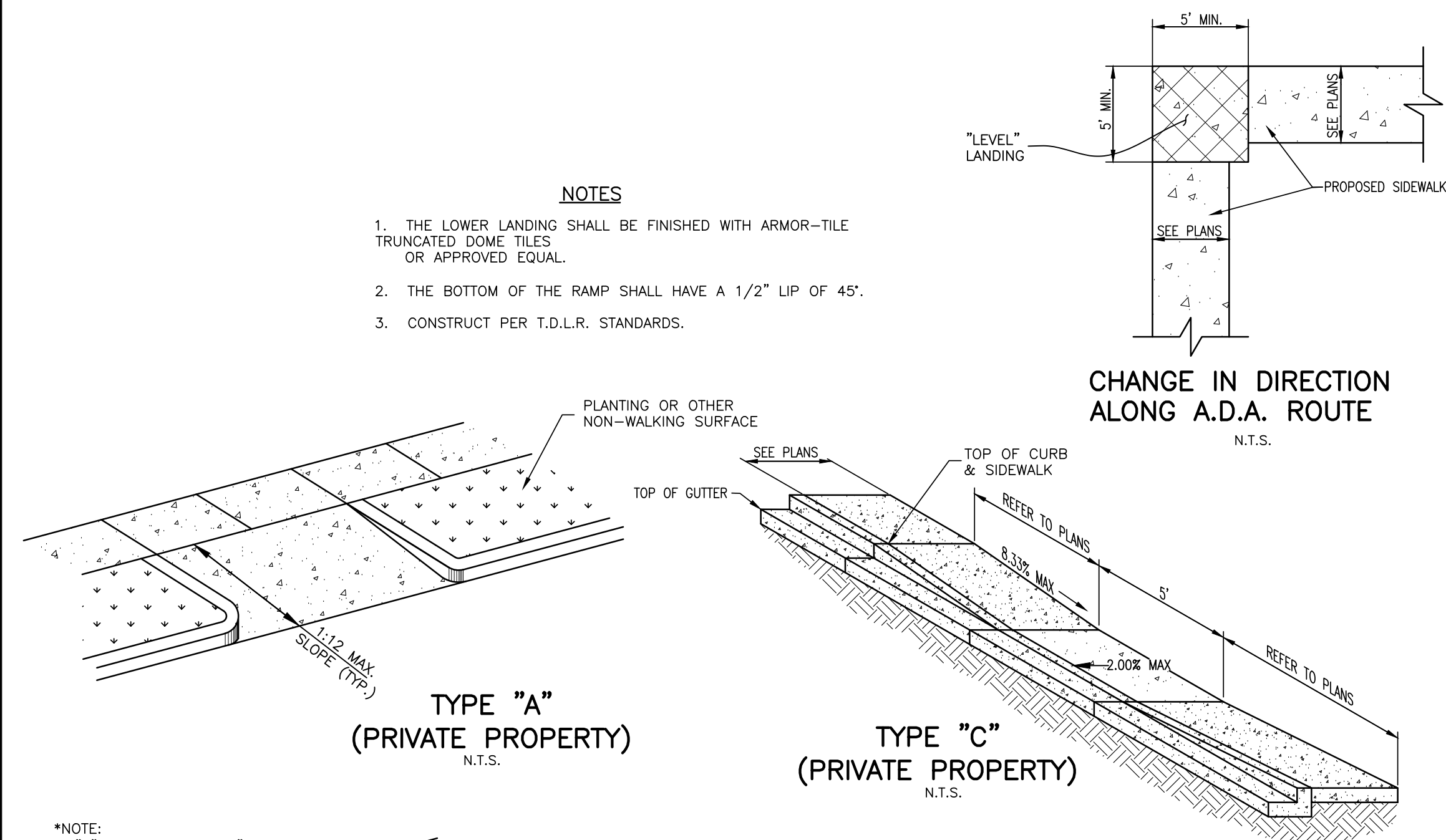
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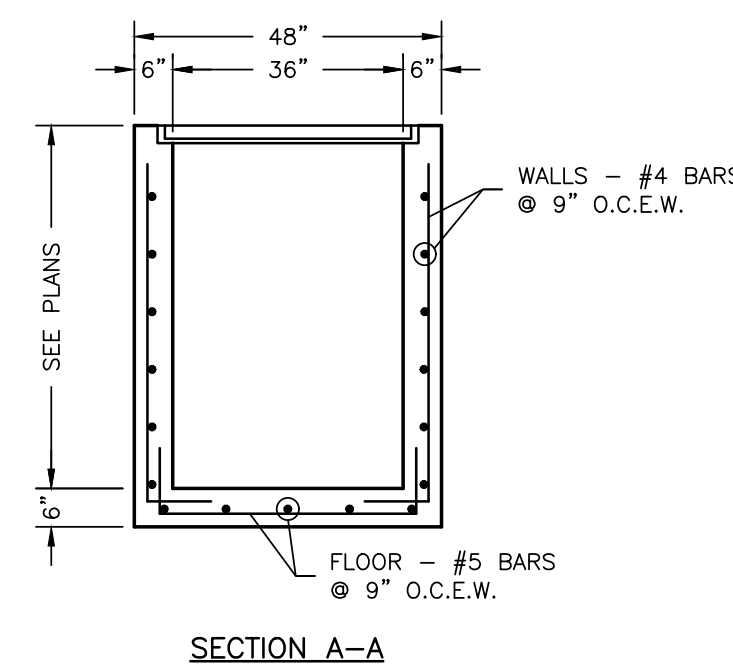
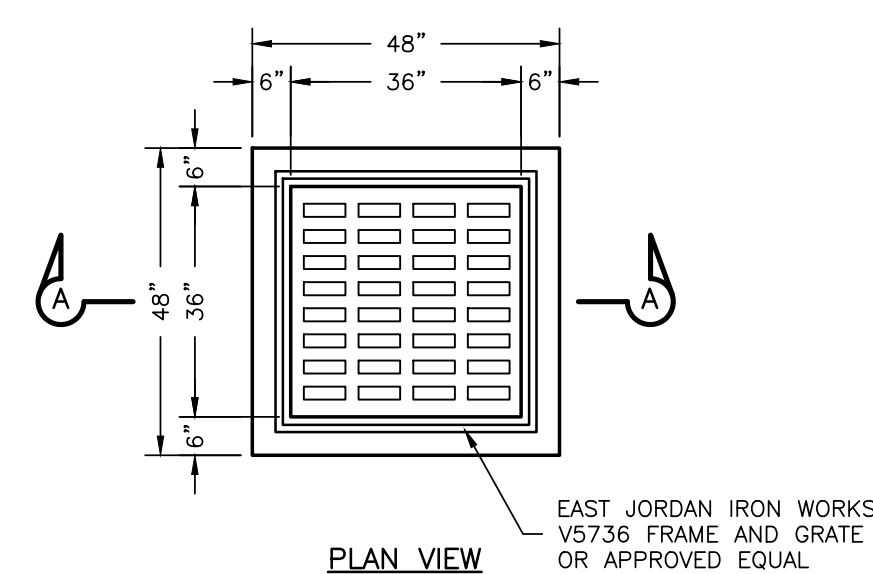
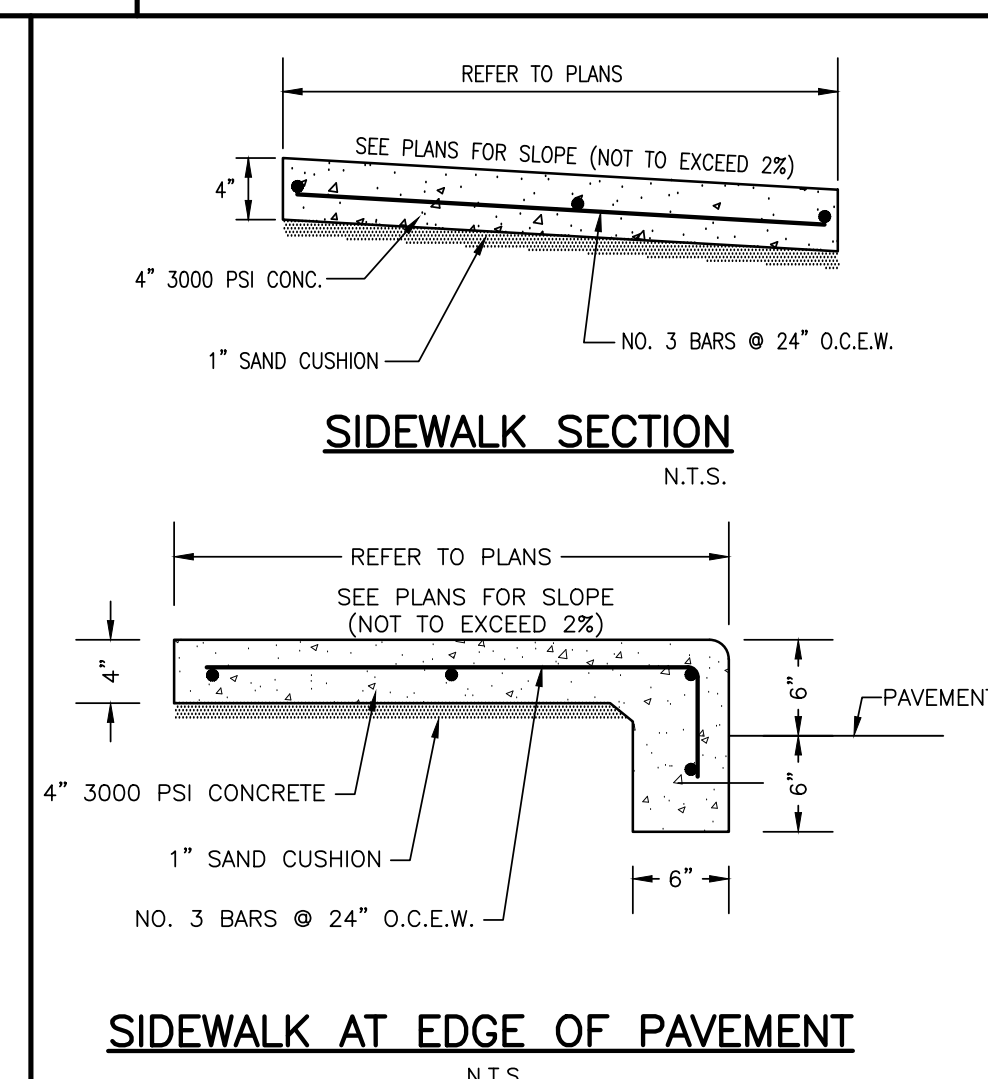
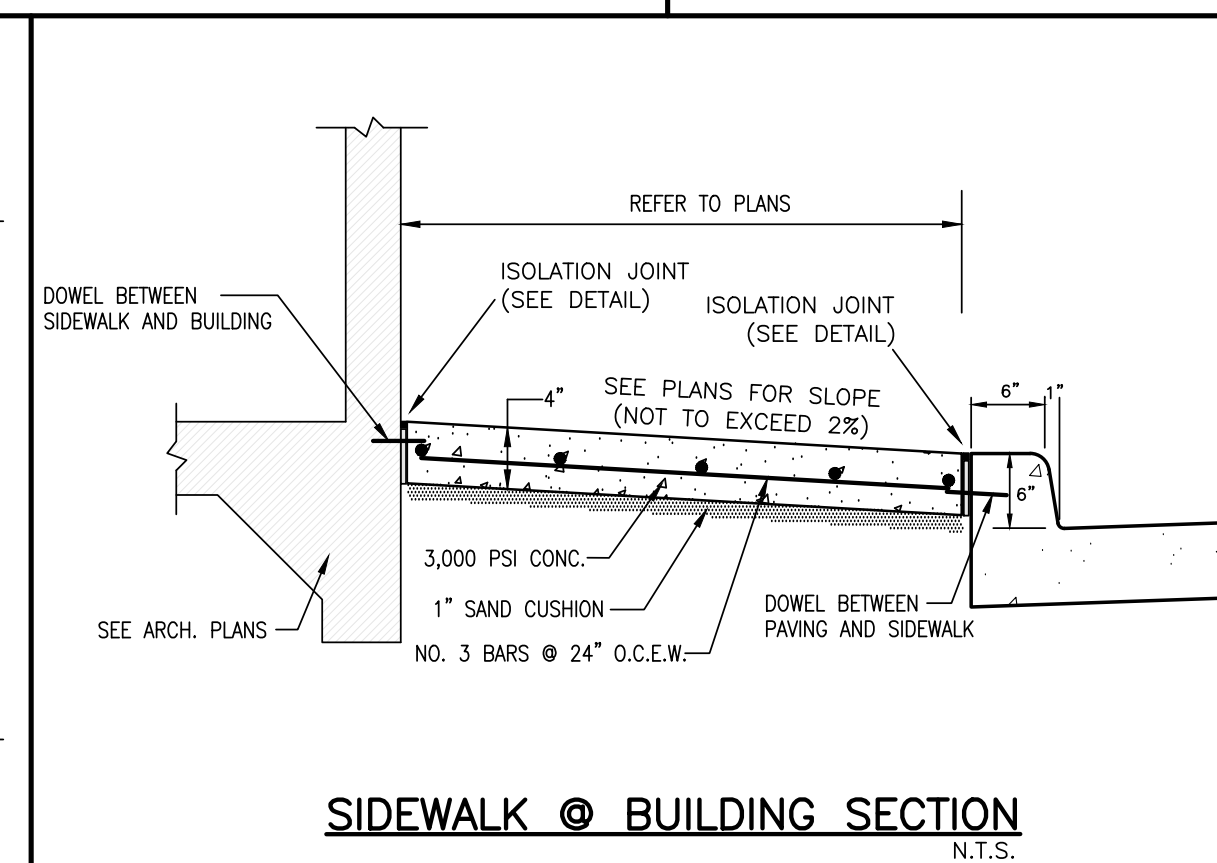
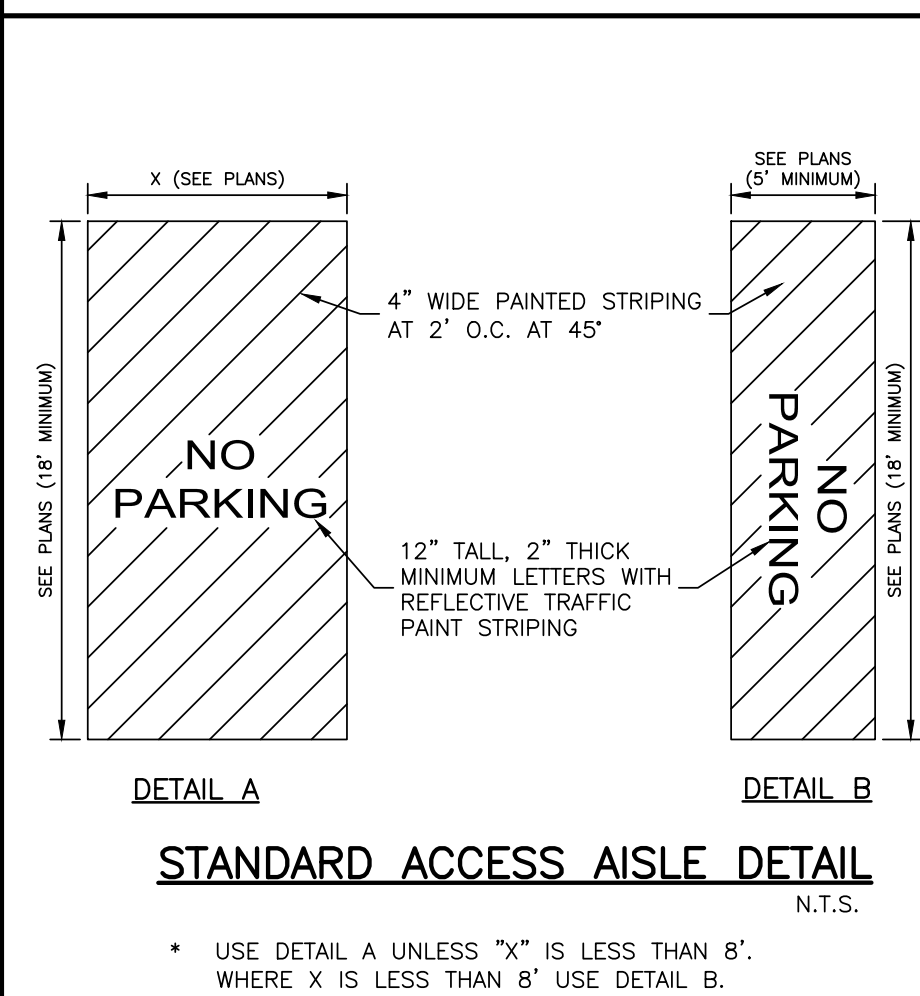
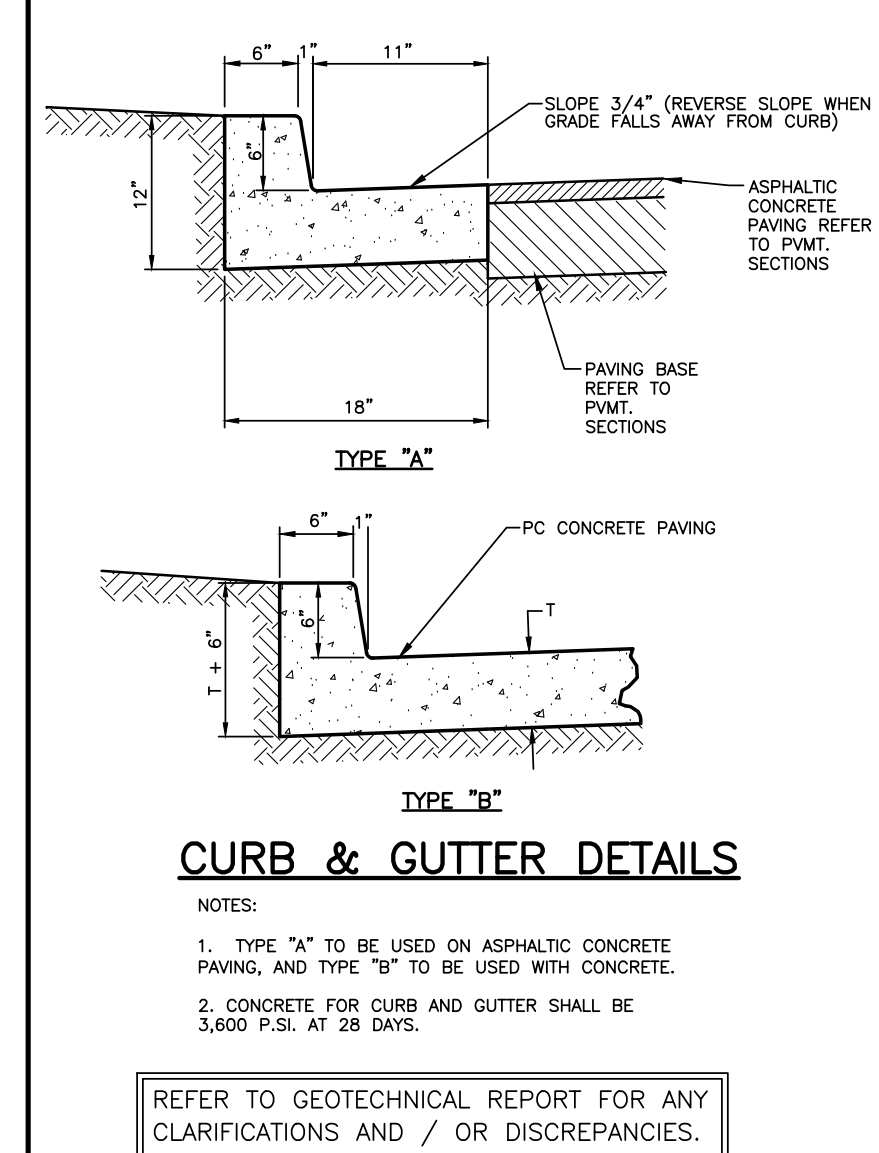
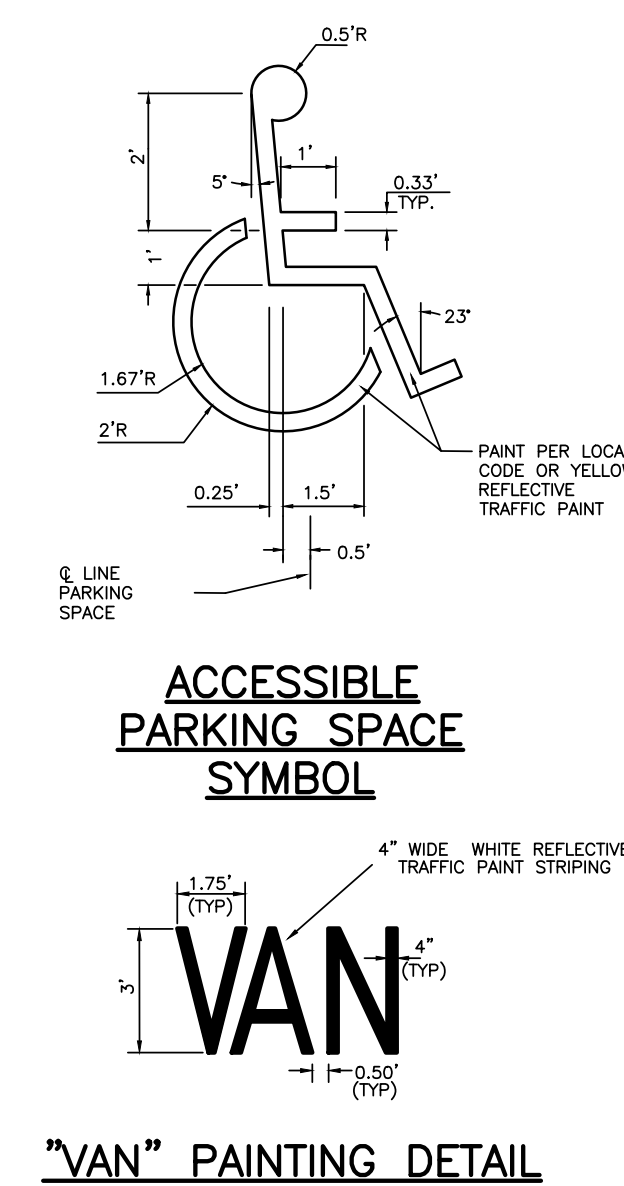
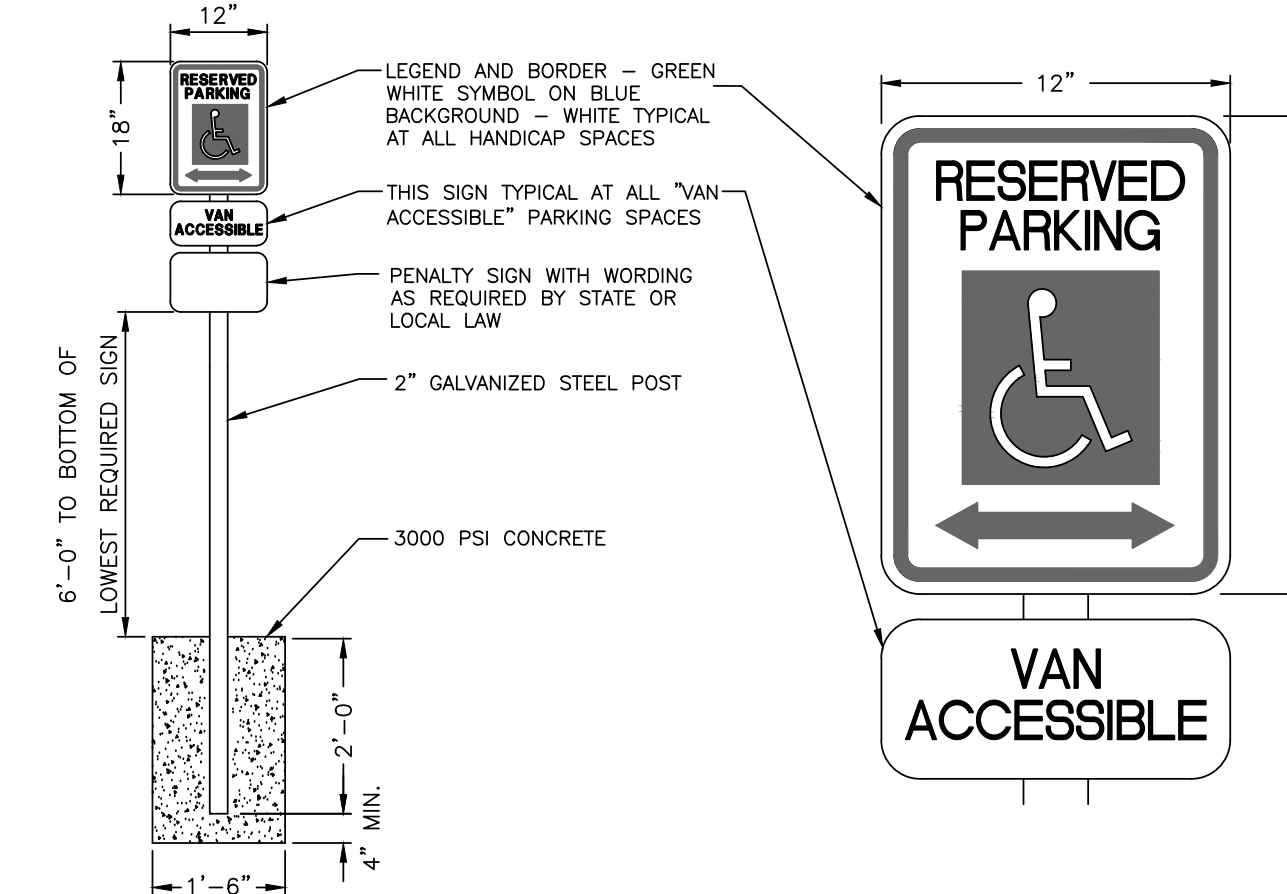
Sheet Number:

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BDG Job Number: 2023.098

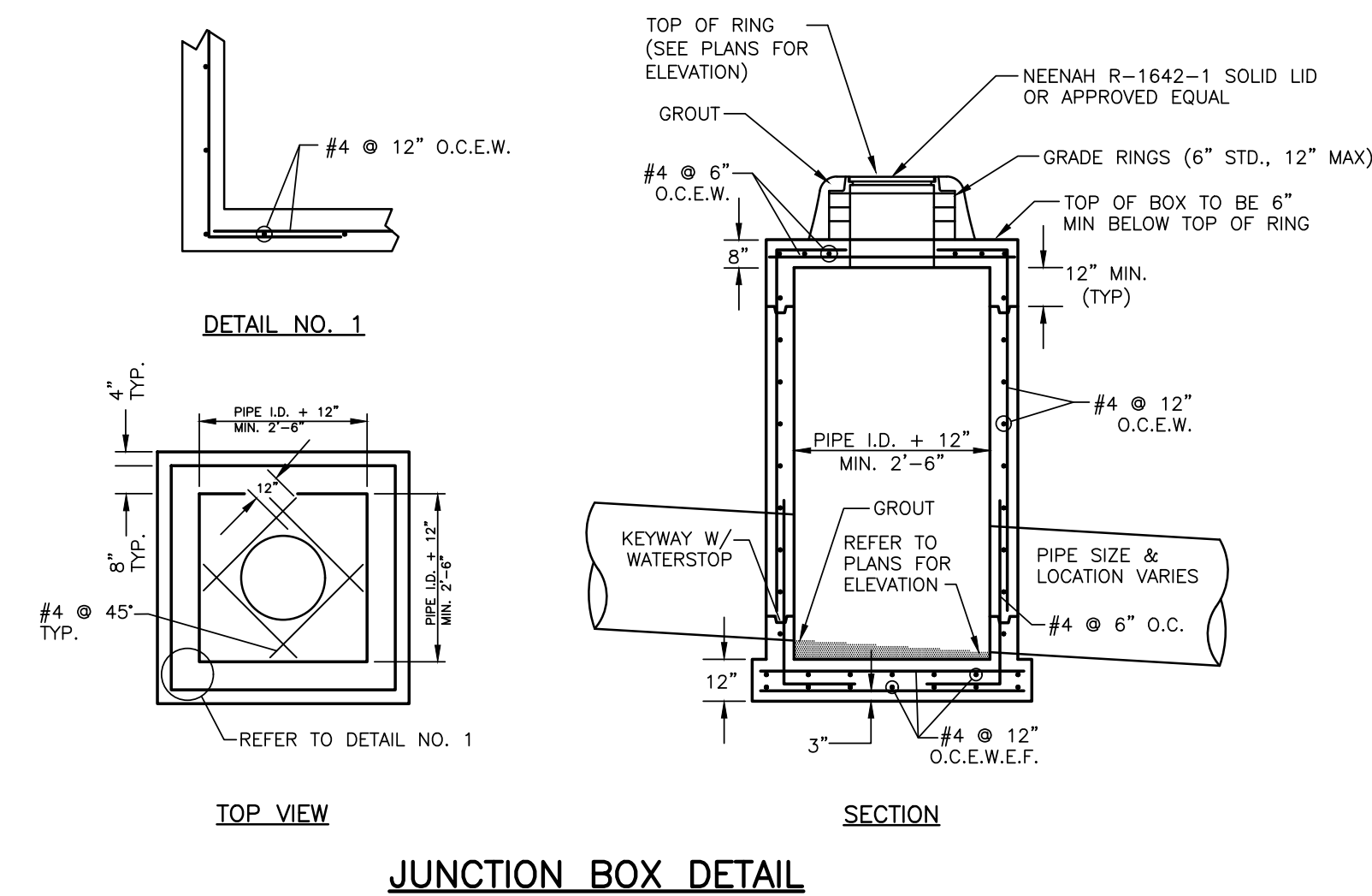
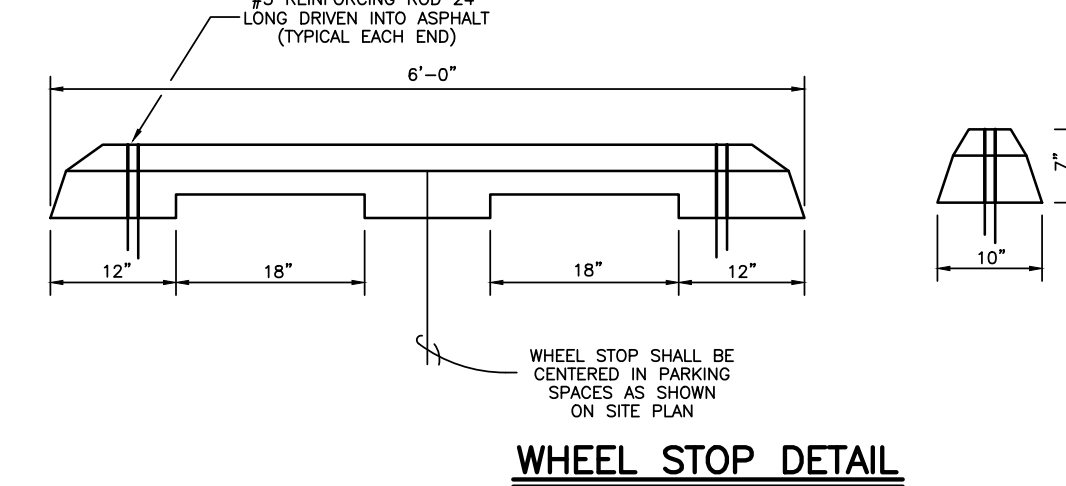


SIDEWALK RAMP DETAIL
N.T.S.



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.



Restaurant:

**Raising Cane's
Restaurant #C1148
La Crosse, Wi. 54601
P6-VA-V**

Designer's Information:



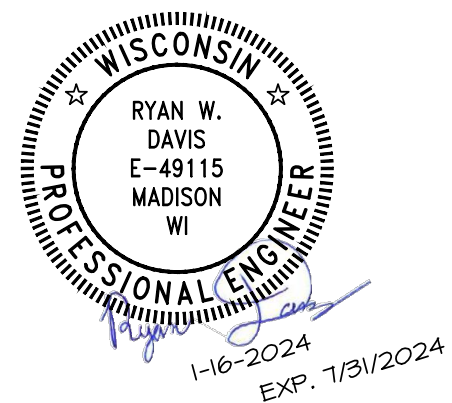
BENCHMARK
DESIGN GROUP
CIVIL / ENVIRONMENTAL / PLANNERS
2024 REFUBLIC DRIVE, SUITE B TYLER TEXAS 75701 • (903) 536-5353
WWW.BENCHMARK-ENGINEERS.COM

Prototype Phase:	2023
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Project Issue Date: 00-00-0000

SAI Project Manager: PDS

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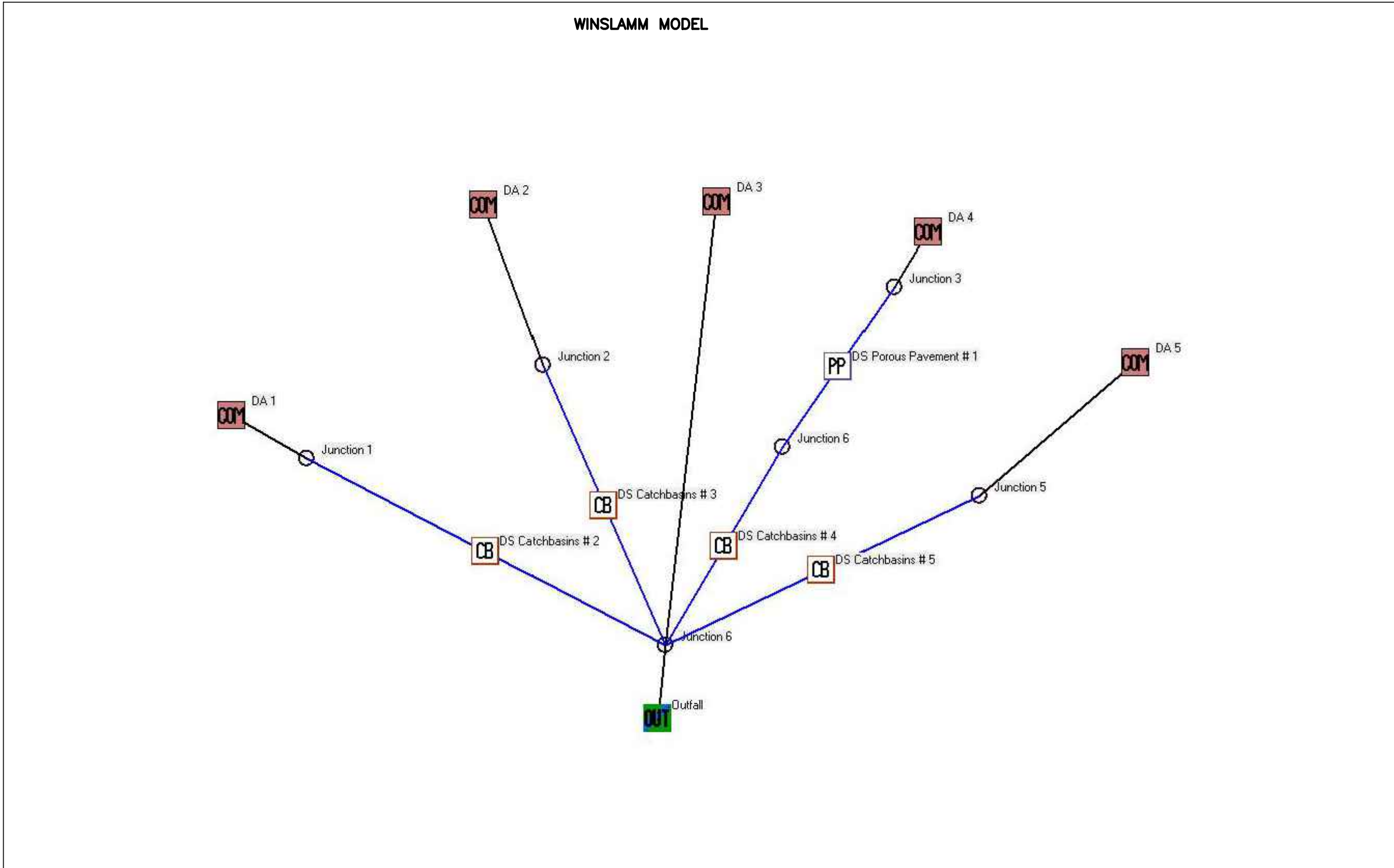
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CONSTRUCTION DETAILS

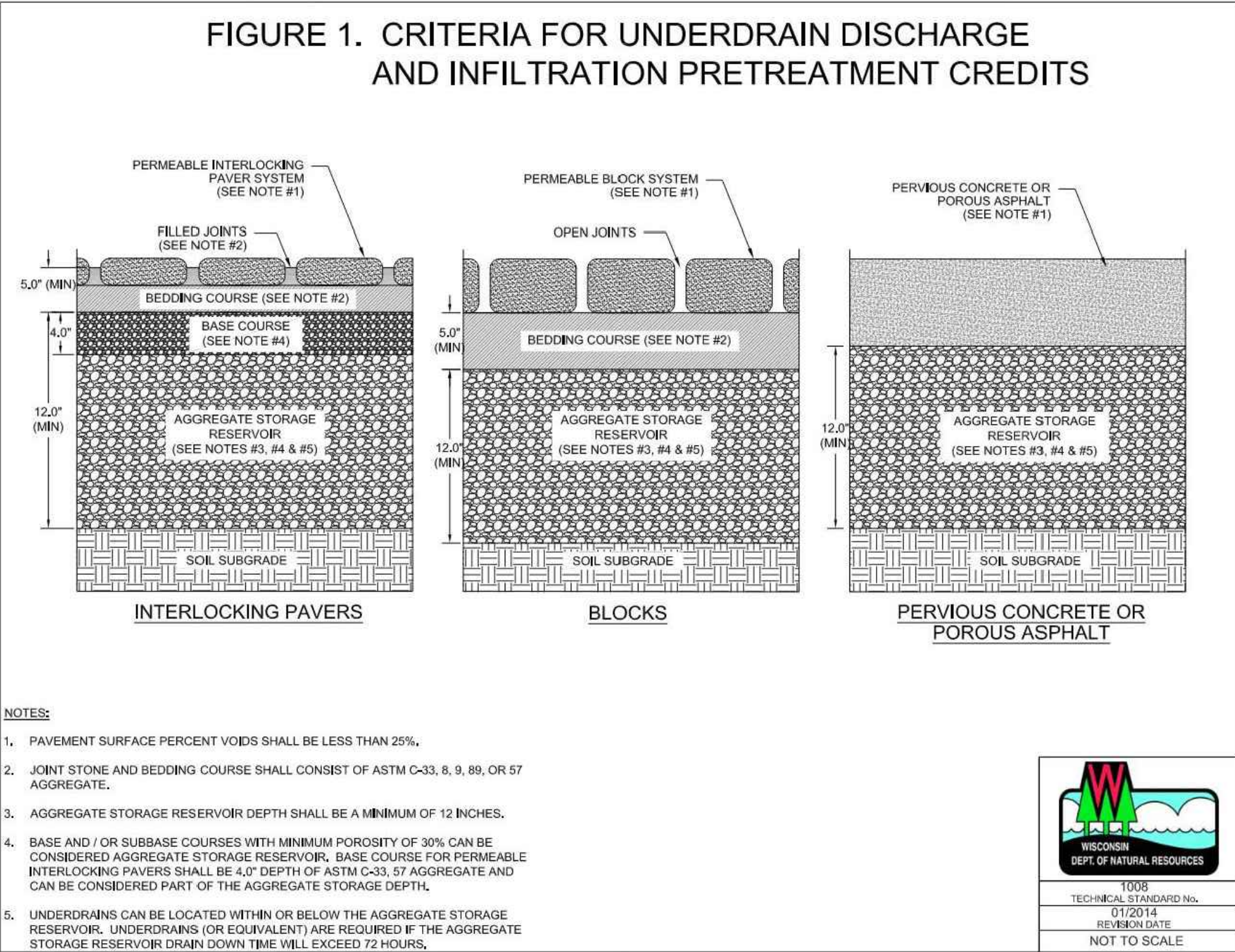
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C-8.0

BDG Job Number: 2023.098



WINSLamm INPUT SUMMARY	
Data file name: F:\Projects\2023\098 Cane's - La Crosse, WI\Calcs\2023.098.mdb WinSLamm Version 10.5.0 Rain file name: C:\WinSLamm Files\Rain Files\WinReg - Madison WI 1981.RAN Particulate Solids Concentration file name: C:\WinSLamm Files\10.1 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.ppx 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 Start of Winter Season: 12/02 Date: 01-11-2024 Site information: Study period ending date: 12/31/81 End of Winter Season: 03/12 Time: 14:27:01	
LUI# 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	
LUI# 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	
LUI# 3 - Commercial: DA 4 Total area (ac): 0.360 13 - Paved Parking 1: 0.360 ac Connected PSD File: C:\WinSLamm Files\NURP.cpz Source Area PSD File: C:\WinSLamm Files\NURP.cpz	
LUI# 4 - Commercial: DA 3 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	
LUI# 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 Manning's 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) = 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: 8 Catchbasin Flow Bypass Data 1. Maximum flow to in-line sump (cfs) = 1.47	
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 Manning's 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) = 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: 8 Catchbasin Flow Bypass Data 1. Maximum flow to in-line sump (cfs) = 2.81	
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 6. Typical outlet pipe Manning's 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: 8 Catchbasin Flow Bypass Data 1. Maximum flow to in-line sump (cfs) = 6.03	
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 Manning's 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: 8 Catchbasin Flow Bypass Data 1. Maximum flow to in-line sump (cfs) = 0.8 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 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	



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\098 Cane's - La Crosse, WI\Calcs\2023.098.mdb WinSLamm Version 10.5.0 Rain file name: C:\WinSLamm Files\Rain Files\WinReg - Madison WI 1981.RAN Particulate Solids Concentration file name: C:\WinSLamm Files\10.1 WI_AVG01.pscx Runoff Coefficient file name: C:\WinSLamm Files\WI_SL06 Dec06.rsvx Pollutant Relative Concentration file name: C:\WinSLamm Files\WI_GEO03.ppx 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 Start of Winter Season: 12/02 Model Run Start Date: 01/05/81 Date of run: 01-11-2024 Total Area Modeled (acres): 0.590 Years in Model Run: 0.98	
Runoff Volume (cu ft) 44784 Percent Runoff Reduction 21.22% Particulate Solids Conc. (mg/L) 130.0 Particulate Solids Yield (lbs) 363.5 Percent Particulate Solids Reduction 61.27%	



Restaurant:

Raising Cane's
Restaurant #C1148
La Crosse, WI. 54601
P6-VA-V

Designer's Information:



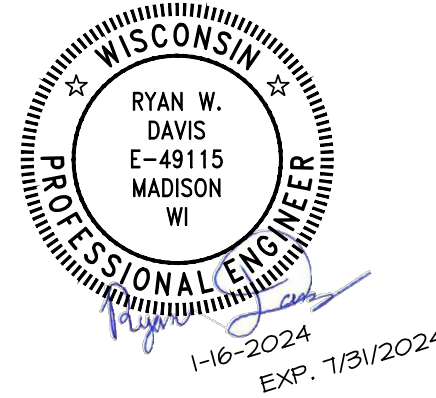
BENCHMARK
DESIGN GROUP
CIVIL / ENVIRONMENTAL / PLANNERS
2024 REPUBLIC DRIVE, SUITE B, THREE ROAD 70301 - (608) 734-5353
WWW.BENCHMARK-DESIGNGROUP.COM

Prototype Phase: 2023

Project Issue Date: 00-00-0000

SAI Project Manager: PDS

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Sheet Versions:		
#	Date	Description
1	1.11.24	DESCRIPTION

Sheet Title:

CONSTRUCTION
DETAILS

Sheet Number:

C-8.1

BDG Job Number: 2023.098