

PROJECT ID: 01052-0016

ORDER OF SHEETS

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	INDEX SHEET
3	DEMOLITION PLAN
4	SWALE TYPICAL SECTION
PLAN & PROFILES	
5-6	PEMBROKE SWALE
7	CHERYL AND JACQUELYN DRIVE
8	CHERYL SWALE
9	GRADING AND EROSION CONTROL PLAN
10	RESTORATION PLAN
11	INTERSECTION DETAILS
12-15	STORMWATER & EROSION CONTROL DETAILS

# CHERYL DRIVE STORMWATER IMPROVEMENTS

CITY OF FITCHBURG  
PLAN OF PROPOSED IMPROVEMENT

CITY OF FITCHBURG  
DANE COUNTY, WI

8 JULY 2022

TO OBTAIN LOCATIONS OF PARTICIPANT UNDERGROUND FACILITIES BEFORE YOU DIG IN WISCONSIN



CALL DIGGERS HOTLINE  
811 TOLL FREE

WISCONSIN STATE STATUTE 182.0175(1974) REQUIRES MINIMUM THREE (3) WORK DAYS NOTICE BEFORE YOU EXCAVATE

"THE INFORMATION SHOWN ON THIS DRAWING CONCERNING TYPE AND LOCATION OF UNDERGROUND UTILITIES IS NOT GUARANTEED TO BE ACCURATE OR ALL INCLUSIVE. THE CONTRACTOR IS RESPONSIBLE FOR MAKING HIS OWN DETERMINATIONS AS TO THE TYPE AND LOCATION OF UNDERGROUND UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERETO. IF ADDITIONAL UTILITIES ARE KNOWN TO EXIST IN THE PROPERTY, THE OWNER WILL PROVIDE EXISTING PLANS OF OTHER UTILITIES SERVING THE SITE AND THE BUILDING THAT OTHERWISE CANNOT BE LOCATED BY A VISUAL INSPECTION OF THE PROPERTY OR OF WHICH THE SURVEYOR WOULD HAVE NO KNOWLEDGE".

REV	DESCRIPTION	DATE
1		
2		

CITY OF FITCHBURG PUBLIC WORKS

WILLIAM BALK, PE  
CITY ENGINEER/DIRECTOR OF PUBLIC WORKS  
5520 LACY ROAD  
FITCHBURG, WI 53711  
PHONE: 608-270-4264

BEN SCHULTE, PE  
ENVIRONMENTAL ENGINEER  
5520 LACY ROAD  
FITCHBURG, WI 53711  
PHONE: 608-345-9628

GAS - MADISON GAS AND ELECTRIC

JOHN WICHERN  
133 S. BLAIR STREET  
P.O. BOX 1231  
MADISON, WI 53703-3471  
PHONE: 608-252-1563

ELECTRIC - MADISON GAS AND ELECTRIC

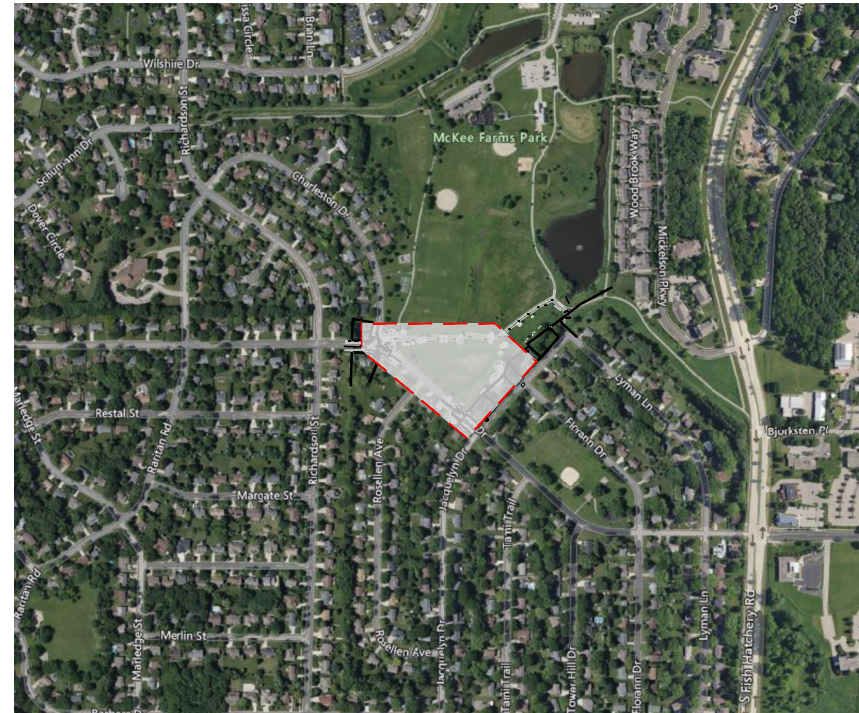
MARK GAUGER  
133 S. BLAIR STREET  
P.O. BOX 1231  
MADISON, WI 53703-3471  
PHONE: 608-252-1570

TELECOM - TDS

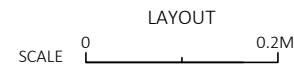
JERRY MYERS  
525 JUNCTION ROAD  
MADISON, WI 53717  
PHONE: 608-664-4404

CABLE TV - CHARTER COMMUNICATIONS

LUKAS LACROSSE  
2701 DANIEL STREET  
MADISON, WI 53718  
PHONE: 608-709-1562  
EXT. 41562



PROJECT LOCATION



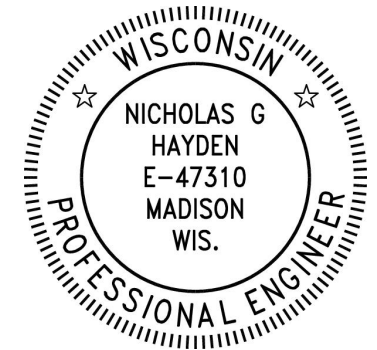
CONVENTIONAL SYMBOLS

PLAN

REPLACE PAVEMENT	
PROPERTY LINE	
LOT LINE	
EASEMENT	
EXISTING RIGHT OF WAY	
PROPOSED OR NEW R/W LINE	
SLOPE INTERCEPT	
REFERENCE LINE	
EXISTING CULVERT	
PROPOSED CULVERT (Box or Pipe)	
COMBUSTIBLE FLUIDS	
MARSH AREA	
WOODED OR SHRUB AREA	

PROFILE

GRADE LINE	
ORIGINAL GROUND	
SPECIAL DITCH	
GRADE ELEVATION	
CULVERT (Profile View)	
UTILITIES	
ELECTRIC	
FIBER OPTIC	
GAS	
SANITARY SEWER	
STORM SEWER	
TELEPHONE	
WATER	
UTILITY PEDESTAL	
POWER POLE	
LIGHT POLE, 18', TYPE G	
LIGHT POLE, 30', TYPE D	
TELEPHONE POLE	

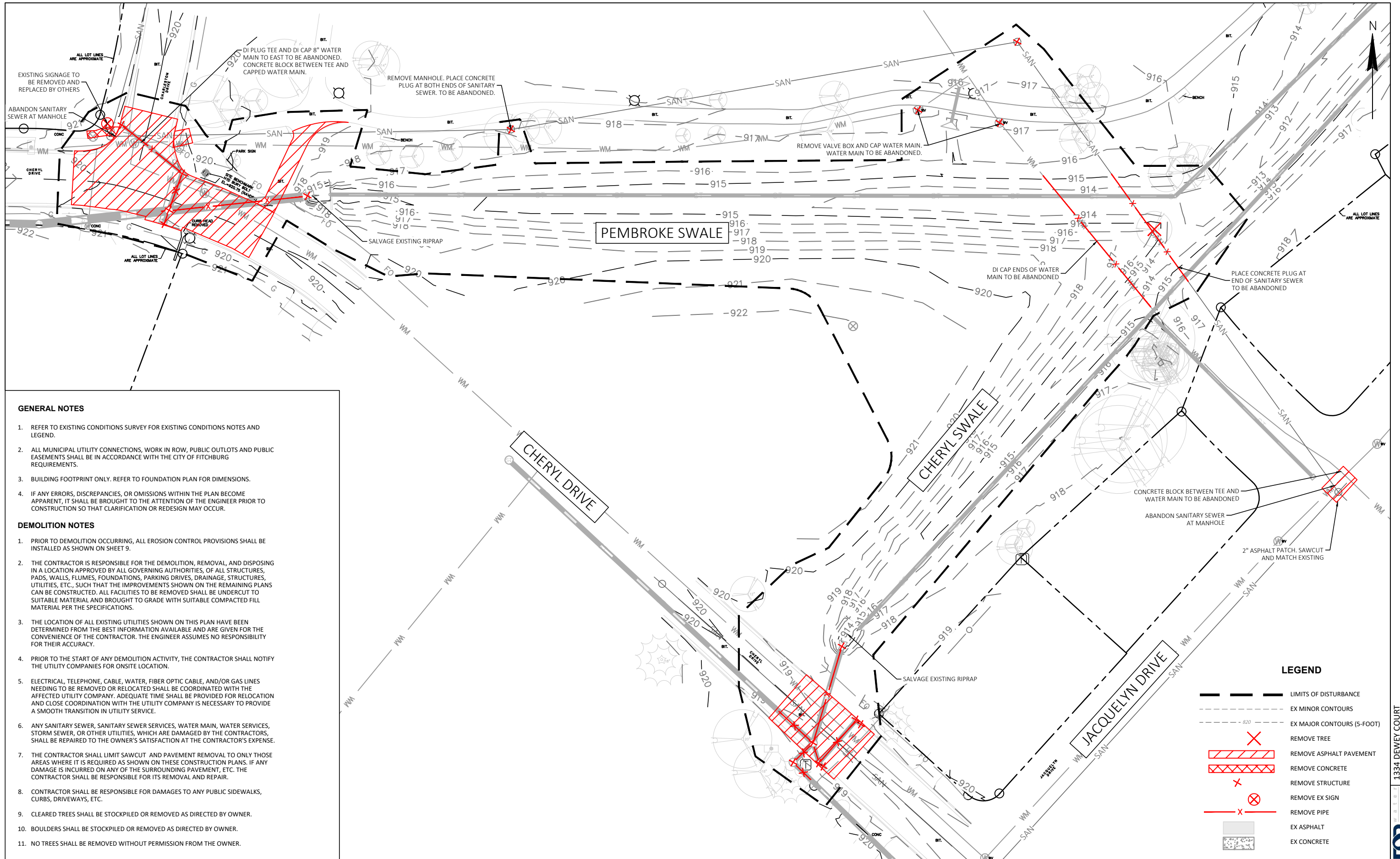


PLANS PREPARED BY:



EMMONS & OLIVIER RESOURCES, INC.  
119 SOUTH MAIN STREET, COTTAGE GROVE, WI 53527  
(608) 839-4422  
Nicholas Hayden, Project Manager





**GENERAL NOTES**

1. REFER TO EXISTING CONDITIONS SURVEY FOR EXISTING CONDITIONS NOTES AND LEGEND.
2. ALL MUNICIPAL UTILITY CONNECTIONS, WORK IN ROW, PUBLIC OUTLOTS AND PUBLIC EASEMENTS SHALL BE IN ACCORDANCE WITH THE CITY OF FITCHBURG REQUIREMENTS.
3. BUILDING FOOTPRINT ONLY. REFER TO FOUNDATION PLAN FOR DIMENSIONS.
4. IF ANY ERRORS, DISCREPANCIES, OR OMISSIONS WITHIN THE PLAN BECOME APPARENT, IT SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO CONSTRUCTION SO THAT CLARIFICATION OR REDESIGN MAY OCCUR.

**DEMOLITION NOTES**

1. PRIOR TO DEMOLITION OCCURRING, ALL EROSION CONTROL PROVISIONS SHALL BE INSTALLED AS SHOWN ON SHEET 9.
2. THE CONTRACTOR IS RESPONSIBLE FOR THE DEMOLITION, REMOVAL, AND DISPOSING IN A LOCATION APPROVED BY ALL GOVERNING AUTHORITIES, OF ALL STRUCTURES, PADS, WALLS, FLUMES, FOUNDATIONS, PARKING DRIVES, DRAINAGE, STRUCTURES, UTILITIES, ETC., SUCH THAT THE IMPROVEMENTS SHOWN ON THE REMAINING PLANS CAN BE CONSTRUCTED. ALL FACILITIES TO BE REMOVED SHALL BE UNDERCUT TO SUITABLE MATERIAL AND BROUGHT TO GRADE WITH SUITABLE COMPACTED FILL MATERIAL PER THE SPECIFICATIONS.
3. THE LOCATION OF ALL EXISTING UTILITIES SHOWN ON THIS PLAN HAVE BEEN DETERMINED FROM THE BEST INFORMATION AVAILABLE AND ARE GIVEN FOR THE CONVENIENCE OF THE CONTRACTOR. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THEIR ACCURACY.
4. PRIOR TO THE START OF ANY DEMOLITION ACTIVITY, THE CONTRACTOR SHALL NOTIFY THE UTILITY COMPANIES FOR ONSITE LOCATION.
5. ELECTRICAL, TELEPHONE, CABLE, WATER, FIBER OPTIC CABLE, AND/OR GAS LINES NEEDING TO BE REMOVED OR RELOCATED SHALL BE COORDINATED WITH THE AFFECTED UTILITY COMPANY. ADEQUATE TIME SHALL BE PROVIDED FOR RELOCATION AND CLOSE COORDINATION WITH THE UTILITY COMPANY IS NECESSARY TO PROVIDE A SMOOTH TRANSITION IN UTILITY SERVICE.
6. ANY SANITARY SEWER, SANITARY SEWER SERVICES, WATER MAIN, WATER SERVICES, STORM SEWER, OR OTHER UTILITIES, WHICH ARE DAMAGED BY THE CONTRACTORS, SHALL BE REPAIRED TO THE OWNER'S SATISFACTION AT THE CONTRACTOR'S EXPENSE.
7. THE CONTRACTOR SHALL LIMIT SAWCUT AND PAVEMENT REMOVAL TO ONLY THOSE AREAS WHERE IT IS REQUIRED AS SHOWN ON THESE CONSTRUCTION PLANS. IF ANY DAMAGE IS INCURRED ON ANY OF THE SURROUNDING PAVEMENT, ETC. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ITS REMOVAL AND REPAIR.
8. CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGES TO ANY PUBLIC SIDEWALKS, CURBS, DRIVEWAYS, ETC.
9. CLEARED TREES SHALL BE STOCKPILED OR REMOVED AS DIRECTED BY OWNER.
10. BOULDERS SHALL BE STOCKPILED OR REMOVED AS DIRECTED BY OWNER.
11. NO TREES SHALL BE REMOVED WITHOUT PERMISSION FROM THE OWNER.

**LEGEND**

	LIMITS OF DISTURBANCE
	EX MINOR CONTOURS
	EX MAJOR CONTOURS (5-FOOT)
	REMOVE TREE
	REMOVE ASPHALT PAVEMENT
	REMOVE CONCRETE
	REMOVE STRUCTURE
	REMOVE EX SIGN
	REMOVE PIPE
	EX ASPHALT
	EX CONCRETE

PROJECT: CHERYL DRIVE STORMWATER IMPROVEMENTS

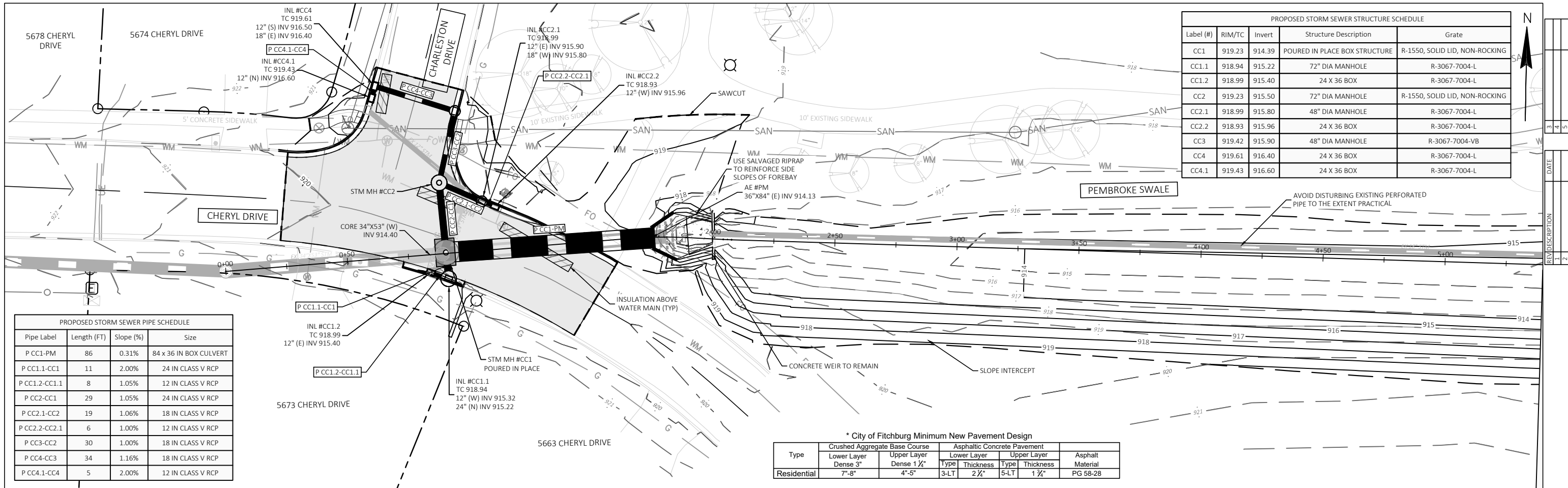
CLIENT: CITY OF FITCHBURG

DEMOLITION PLAN

0 30 60 Feet

SHEET 3



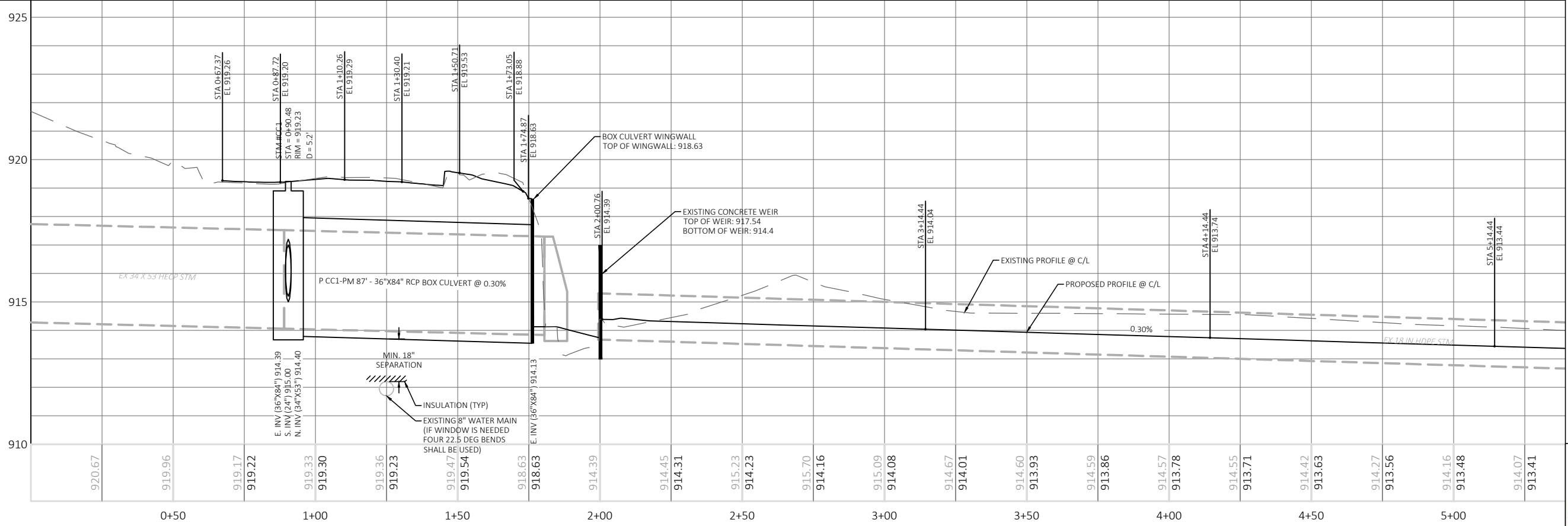


PROPOSED STORM SEWER STRUCTURE SCHEDULE				
Label (#)	RIM/TC	Invert	Structure Description	Grate
CC1	919.23	914.39	POURED IN PLACE BOX STRUCTURE	R-1550, SOLID LID, NON-ROCKING
CC1.1	918.94	915.22	72" DIA MANHOLE	R-3067-7004-L
CC1.2	918.99	915.40	24 X 36 BOX	R-3067-7004-L
CC2	919.23	915.50	72" DIA MANHOLE	R-1550, SOLID LID, NON-ROCKING
CC2.1	918.99	915.80	48" DIA MANHOLE	R-3067-7004-L
CC2.2	918.93	915.96	24 X 36 BOX	R-3067-7004-L
CC3	919.42	915.90	48" DIA MANHOLE	R-3067-7004-VB
CC4	919.61	916.40	24 X 36 BOX	R-3067-7004-L
CC4.1	919.43	916.60	24 X 36 BOX	R-3067-7004-L

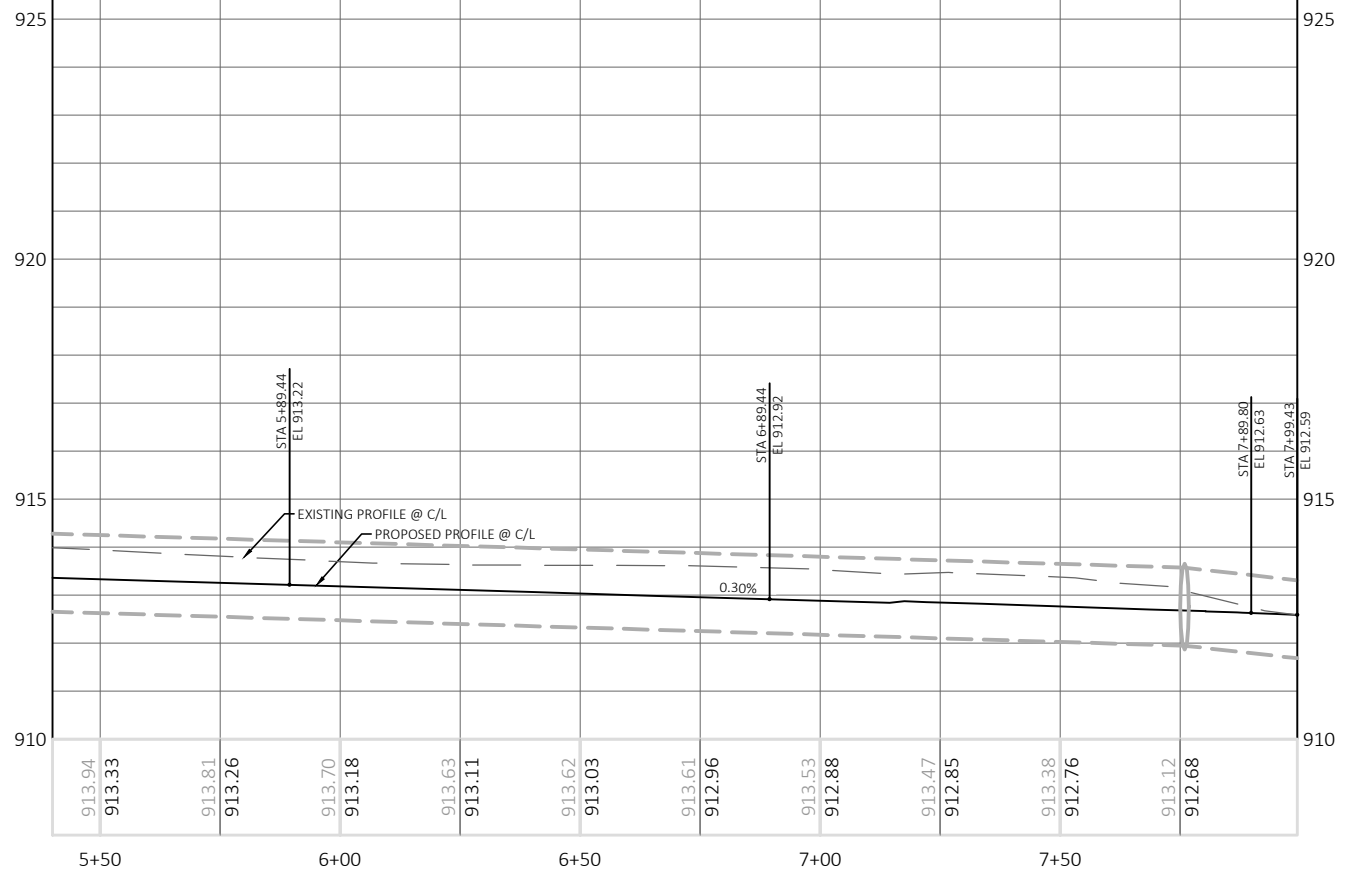
PROPOSED STORM SEWER PIPE SCHEDULE			
Pipe Label	Length (FT)	Slope (%)	Size
P CC1-PM	86	0.31%	84 x 36 IN BOX CULVERT
P CC1.1-CC1	11	2.00%	24 IN CLASS V RCP
P CC1.2-CC1.1	8	1.05%	12 IN CLASS V RCP
P CC2-CC1	29	1.05%	24 IN CLASS V RCP
P CC2.1-CC2	19	1.06%	18 IN CLASS V RCP
P CC2.2-CC2.1	6	1.00%	12 IN CLASS V RCP
P CC3-CC2	30	1.00%	18 IN CLASS V RCP
P CC4-CC3	34	1.16%	18 IN CLASS V RCP
P CC4.1-CC4	5	2.00%	12 IN CLASS V RCP

\* City of Fitchburg Minimum New Pavement Design

Type	Crushed Aggregate Base Course		Asphaltic Concrete Pavement		Asphalt Material
	Lower Layer Dense 3"	Upper Layer Dense 1 1/2"	Lower Layer Type Thickness	Upper Layer Type Thickness	
Residential	7"-8"	4"-5"	3-LT 2 1/4"	5-LT 1 3/4"	PG 58-28



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 MADISON, WI 53703  
 (608) 839.4422  
 EOR  
 W. B. L. E. E.  
 ecology  
 community



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REV	DESCRIPTION	DATE
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PROJECT: CHERYL DRIVE STORMWATER IMPROVEMENTS

CLIENT: CITY OF FITCHBURG

STREET: CHERYL DRIVE

PLAN AND PROFILE: Pembroke Swale - 5+40.07 - 7+99.43

SHEET 6

FILE NAME : P:\01052\_CITY\_OF\_FITCHBURG\0015\_CHERYL\_DRIVE\_STORMWATER\_IMPROVEMENTS\08\_DRAWINGS AND CONDOC\0015\_CHERYL\_DRIVE\_STORMWATER\_IMPROVEMENTS\2022-05-04 SW IMPROVEMENTS PP.DWG

PLOT DATE : 7/8/2022 11:21 AM

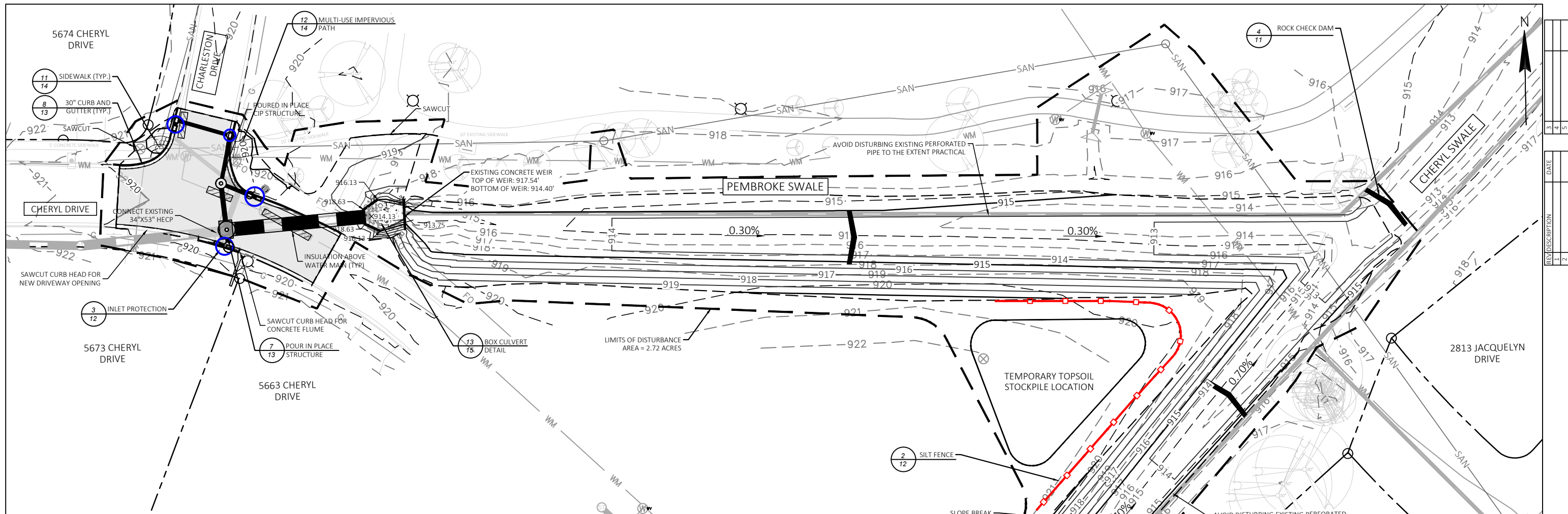
PLOT BY : GABE LUJAN

PLOT SCALE : 1" = 40'









**GENERAL NOTES:**

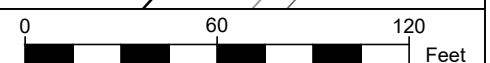
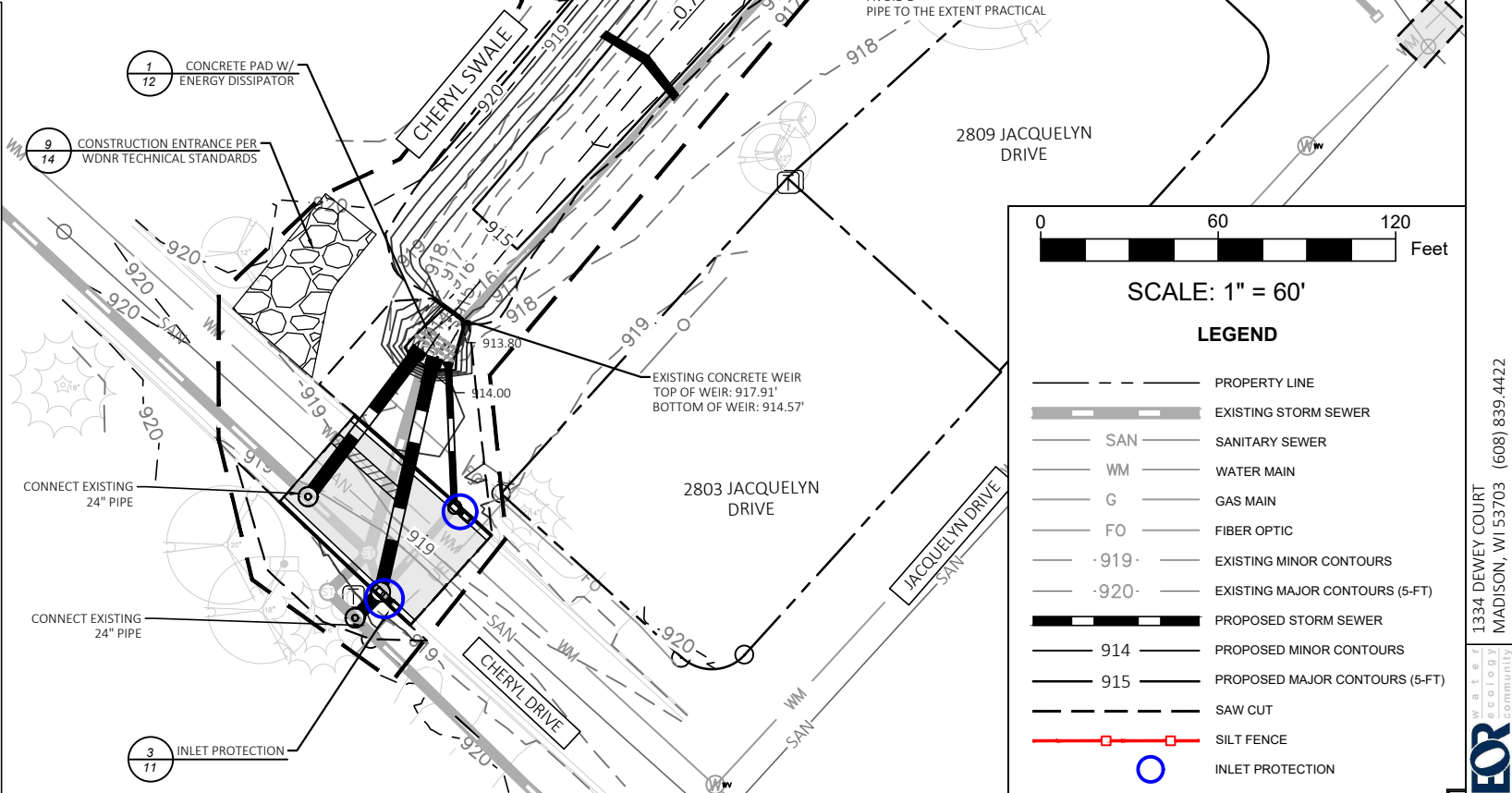
1. ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH THE LATEST EDITION OF "CITY OF FITCHBURG STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION".
2. CONTRACTOR SHALL NOTIFY PUBLIC WORKS DEPARTMENT A MINIMUM OF 48 HOURS BEFORE CONNECTING TO EXISTING SEWER AND WATER MAIN, AND BEFORE STARTING WORK.
3. ALL STREET DIMENSIONS (WIDTHS, RADII LENGTH) ARE MEASURED TO THE FACE OF CURB.
4. ALL HANDICAP RAMPS TO BE VERIFIED BY THE CITY BEFORE PLACEMENT.
5. ALL HANDICAP RAMPS SHALL BE ADA COMPLIANT INCLUDING THE PROVISION OF NEENAH FOUNDRY'S DETECTABLE WARNING PLATES R-4984 NATURAL FINISH.
6. MANHOLE CASTINGS WITHIN PAVEMENT TO BE SET TO 1/4" BELOW SURFACE.
7. ALL UTILITY CROSSINGS SHALL BE MADE PRIOR TO PROOF ROLLING, PLACEMENT OF CURB & GUTTER, AND BASE COURSE.
8. ALL STORM SEWER APRON END SECTIONS OVER 12" DIA SHALL HAVE FACTORY INSTALLED PIPE GATE.
9. STORM SEWER STRUCTURES SHALL HAVE CORED, NON-SCORED, SMOOTH-FORMED OPENINGS. IN LIEU OF CORED OPENINGS, STRUCTURES MAY ALSO HAVE FORMED OPENINGS AND/OR BE POURED IN PLACE.
10. RCP STORM SEWER JOINT TIES REQUIRED FOR LAST (2) UPSTREAM AND DOWNSTREAM JOINTS AT APRON END SECTION LOCATIONS ON PIPE OF ANY SIZE.
11. TEMPORARY PLUGS SHALL BE PLACED IN CONNECTING MANHOLES UNTIL CONSTRUCTION IS COMPLETE AND ACCEPTED.
12. A MINIMUM OF (2) TYPE III BARRICADES WITH "ROAD CLOSED" SIGNS REQUIRED AND MAINTAINED AT ALL PROPOSED ENTRANCES UNTIL THE STREETS ARE ACCEPTED BY THE CITY.
13. INLET CASTINGS SHALL BE NEENAH #R-3067-7004-L ("DUMP NO WASTE, DRAINS TO LAKE").
14. USE OF SHOT ROCK AND/OR EXCAVATED ROCK FOR TRENCH BACKFILL IS SUBJECT TO APPROVAL BY THE CITY.
15. STORM STRUCTURES GREATER THAN 6' IN DIAMETER SHALL BE FIELD POURED.

**GRADING NOTES:**

1. ALL DISTURBED AREAS SHALL BE SEEDED AND HYDRO MULCHED IMMEDIATELY FOLLOWING GRADING ACTIVITIES. SEED MIX TO BE IN ACCORDANCE WITH RESTORATION PLAN.
2. ALL PROPOSED GRADES SHOWN ARE FINISHED GRADES. CONTRACTOR SHALL VERIFY ALL GRADES MAKE SURE ALL AREAS DRAIN PROPERLY AND SHALL REPORT ANY DISCREPANCIES TO THE ENGINEER PRIOR TO CONSTRUCTION.
3. CONTRACTOR TO DEEP TILL ALL COMPACTED PERVIOUS SURFACES PRIOR TO SEEDED AND HYDRO MULCHING.
4. ALL LANDSCAPE AREAS SHALL BE RESTORED WITH A MINIMUM OF 6" OF TOPSOIL.

**EROSION CONTROL NOTES:**

1. THE PROJECT HAS BEEN DESIGNED AND MUST BE CONSTRUCTED IN COMPLIANCE WITH ALL STANDARDS SET BY CITY OF FITCHBURG/DANE COUNTY.
2. ALL EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE INSTALLED AS SPECIFIED IN CURRENT DEPARTMENT OF NATURAL RESOURCES EROSION AND SEDIMENT CONTROL TECHNICAL STANDARDS, CITY OF FITCHBURG/DANE COUNTY STANDARDS, AND SPECIFIC APPROVAL CONDITIONS FROM THE CITY OF FITCHBURG/DANE COUNTY.
3. EROSION CONTROL MEASURES SHOWN ON THE PLAN SHALL BE CONSIDERED MINIMUMS. ADDITIONAL EROSION CONTROL MEASURES REQUESTED BY STATE, COUNTY, AND CITY INSPECTORS AND/OR ENGINEER SHALL BE INSTALLED WITHIN 24 HOURS OF REQUEST.
4. EROSION CONTROL MEASURES SHALL BE INSPECTED WEEKLY AND AFTER EVERY RAINFALL EVENT EXCEEDING 0.5 INCHES WITHIN 24 HOURS. REPAIR OF EROSION CONTROL MEASURES SHALL OCCUR WITHIN 24 HOURS OF INSPECTION. CONTRACTOR SHALL MAINTAIN AN ON-SITE WRITTEN REPORT OF ALL INSPECTIONS FOR THE DURATION OF THE PROJECT. CONTRACTOR IS RESPONSIBLE FOR SUBMITTING COPIES OF ALL REQUIRED PERMITTRACK INSPECTION REPORTS UNTIL THE EROSION CONTROL PERMIT IS CLOSED.
5. EROSION CONTROL MEASURES SHALL BE PROPERLY MAINTAINED UNTIL THE SITE HAS 70% UNIFORM VEGETATION AND UNTIL THE EROSION CONTROL PERMIT IS CLOSED.
6. INSTALL SILT FENCE ON THE DOWNSLOPE SIDE OF STOCKPILES AND PROVIDE TEMPORARY SEEDING ON STOCKPILES WHICH ARE TO REMAIN IN PLACE AND UNDISTURBED FOR MORE THAN 7 DAYS.
7. SOIL TRACKED FROM THE SITE TO STREETS SHALL BE REMOVED AT THE END OF EACH WORK DAY OR AS DIRECTED BY THE ENGINEER OR CITY/COUNTY/STATE INSPECTORS.
8. AFTER COMPLETION OF ROUGH GRADING, AREAS AT FINAL GRADES SHALL BE VEGETATED BY DORMANT SEEDING WITH WISDOT TURF GRASS SUNNY APPLIED AT A RATE OF 2 POUNDS/1,000 SF UNLESS OTHERWISE SPECIFIED ON PLANS.
9. ALL AREAS THAT SHALL BE PERMANENTLY VEGETATED SHALL BE COVERED WITH 6" TOPSOIL AND STABILIZED USING ONE OF THE FOLLOWING METHODS:
  - a. ALL SLOPES EXCEEDING 5:1 (20%) SHALL BE STABILIZED WITH CLASS I, TYPE A URBAN EROSION MATTING AS APPROVED BY ENGINEER.
  - b. ALL DITCHES AND SWALES CONSTRUCTED TO FINAL GRADES SHALL BE LINED WITH EROSION MAT, CLASS II, TYPE C. EROSION MAT SHALL EXTEND VERTICALLY UP SLOPE MINIMUM 1'.
10. IMMEDIATELY STABILIZE DISTURBED AREAS THAT WILL BE INACTIVE FOR 14 DAYS OR LONGER BY TEMPORARY SEEDING, MULCHING, OR POLYMER APPLICATION.
11. FRAMED INLET PROTECTION SHALL BE INSTALLED AS SOON AS INLET CONSTRUCTION IS COMPLETED.



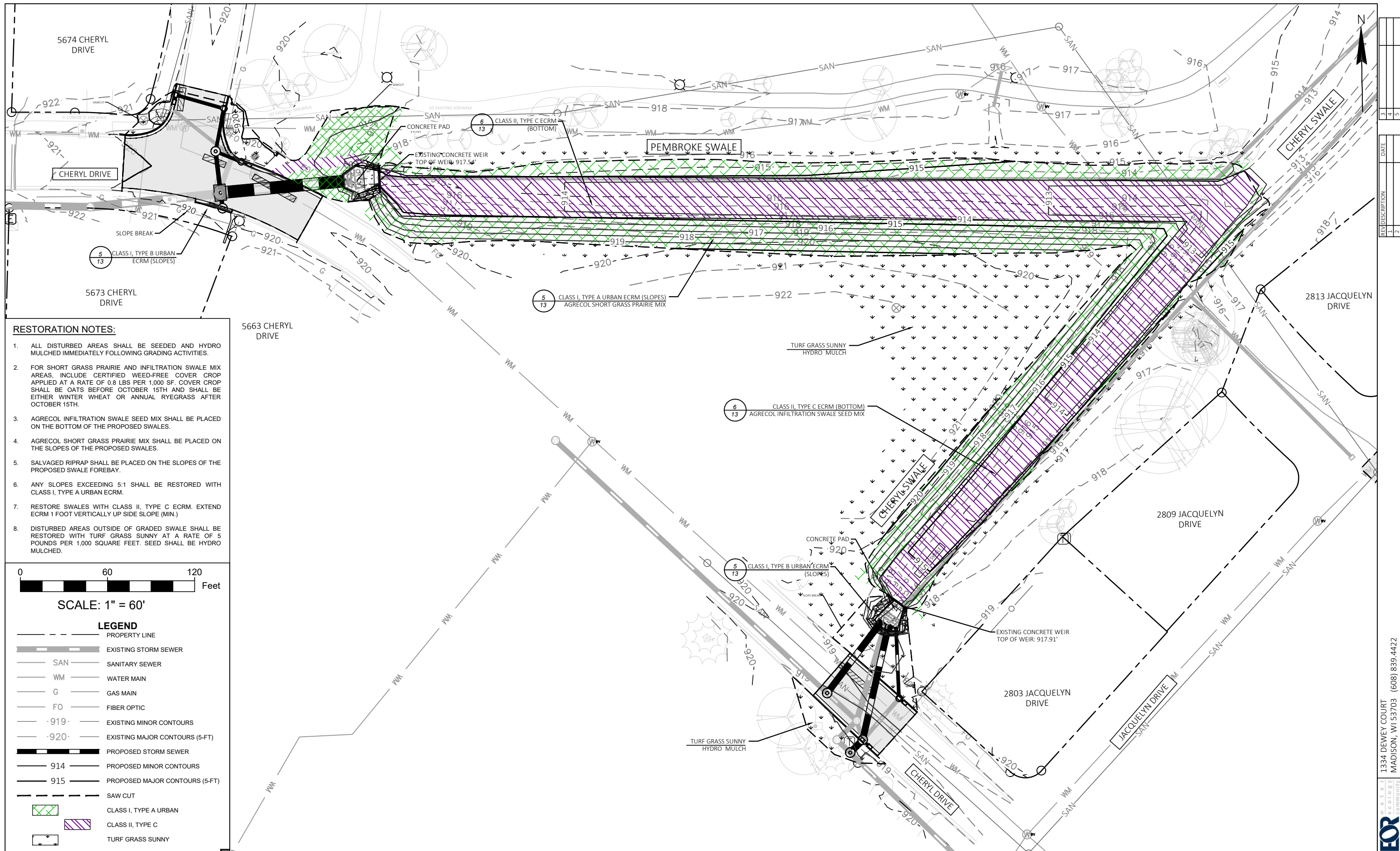
SCALE: 1" = 60'

**LEGEND**

- PROPERTY LINE
- EXISTING STORM SEWER
- SAN --- SANITARY SEWER
- WM --- WATER MAIN
- G --- GAS MAIN
- FO --- FIBER OPTIC
- 919- --- EXISTING MINOR CONTOURS
- 920- --- EXISTING MAJOR CONTOURS (5-FT)
- PROPOSED STORM SEWER
- 914 --- PROPOSED MINOR CONTOURS
- 915 --- PROPOSED MAJOR CONTOURS (5-FT)
- - - SAW CUT
- SILT FENCE
- INLET PROTECTION

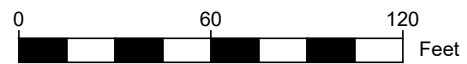
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MADISON, WI 53703 (608) 839.4422  
EOR



**RESTORATION NOTES:**

1. ALL DISTURBED AREAS SHALL BE SEEDED AND HYDRO MULCHED IMMEDIATELY FOLLOWING GRADING ACTIVITIES.
2. FOR SHORT GRASS PRAIRIE AND INFILTRATION SWALE MIX AREAS, INCLUDE CERTIFIED WEED-FREE COVER CROP APPLIED AT A RATE OF 0.8 LBS PER 1,000 SF. COVER CROP SHALL BE OATS BEFORE OCTOBER 15TH AND SHALL BE EITHER WINTER WHEAT OR ANNUAL RYEGRASS AFTER OCTOBER 15TH.
3. AGRECOL INFILTRATION SWALE SEED MIX SHALL BE PLACED ON THE BOTTOM OF THE PROPOSED SWALES.
4. AGRECOL SHORT GRASS PRAIRIE MIX SHALL BE PLACED ON THE SLOPES OF THE PROPOSED SWALES.
5. SALVAGED RIPRAP SHALL BE PLACED ON THE SLOPES OF THE PROPOSED SWALE FOREBAY.
6. ANY SLOPES EXCEEDING 5:1 SHALL BE RESTORED WITH CLASS I, TYPE A URBAN ECRM.
7. RESTORE SWALES WITH CLASS II, TYPE C ECRM. EXTEND ECRM 1 FOOT VERTICALLY UP SIDE SLOPE (MIN.)
8. DISTURBED AREAS OUTSIDE OF GRADED SWALE SHALL BE RESTORED WITH TURF GRASS SUNNY AT A RATE OF 5 POUNDS PER 1,000 SQUARE FEET. SEED SHALL BE HYDRO MULCHED.



SCALE: 1" = 60'

**LEGEND**

- PROPERTY LINE
- EXISTING STORM SEWER
- SAN --- SANITARY SEWER
- WM --- WATER MAIN
- G --- GAS MAIN
- FO --- FIBER OPTIC
- 919- --- EXISTING MINOR CONTOURS
- 920- --- EXISTING MAJOR CONTOURS (5-FT)
- PROPOSED STORM SEWER
- 914 --- PROPOSED MINOR CONTOURS
- 915 --- PROPOSED MAJOR CONTOURS (5-FT)
- SAW CUT
- CLASS I, TYPE A URBAN
- CLASS II, TYPE C
- TURF GRASS SUNNY

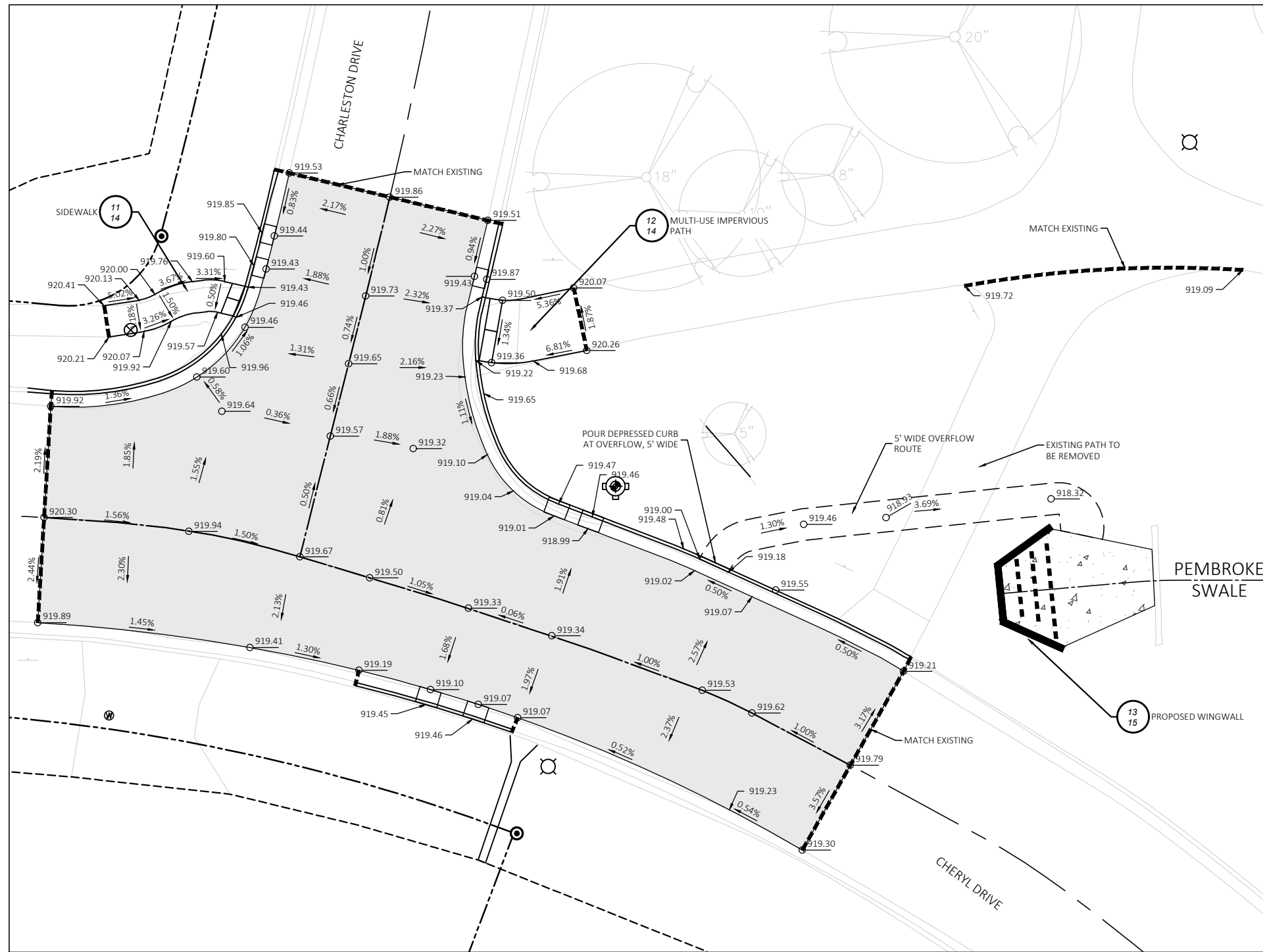
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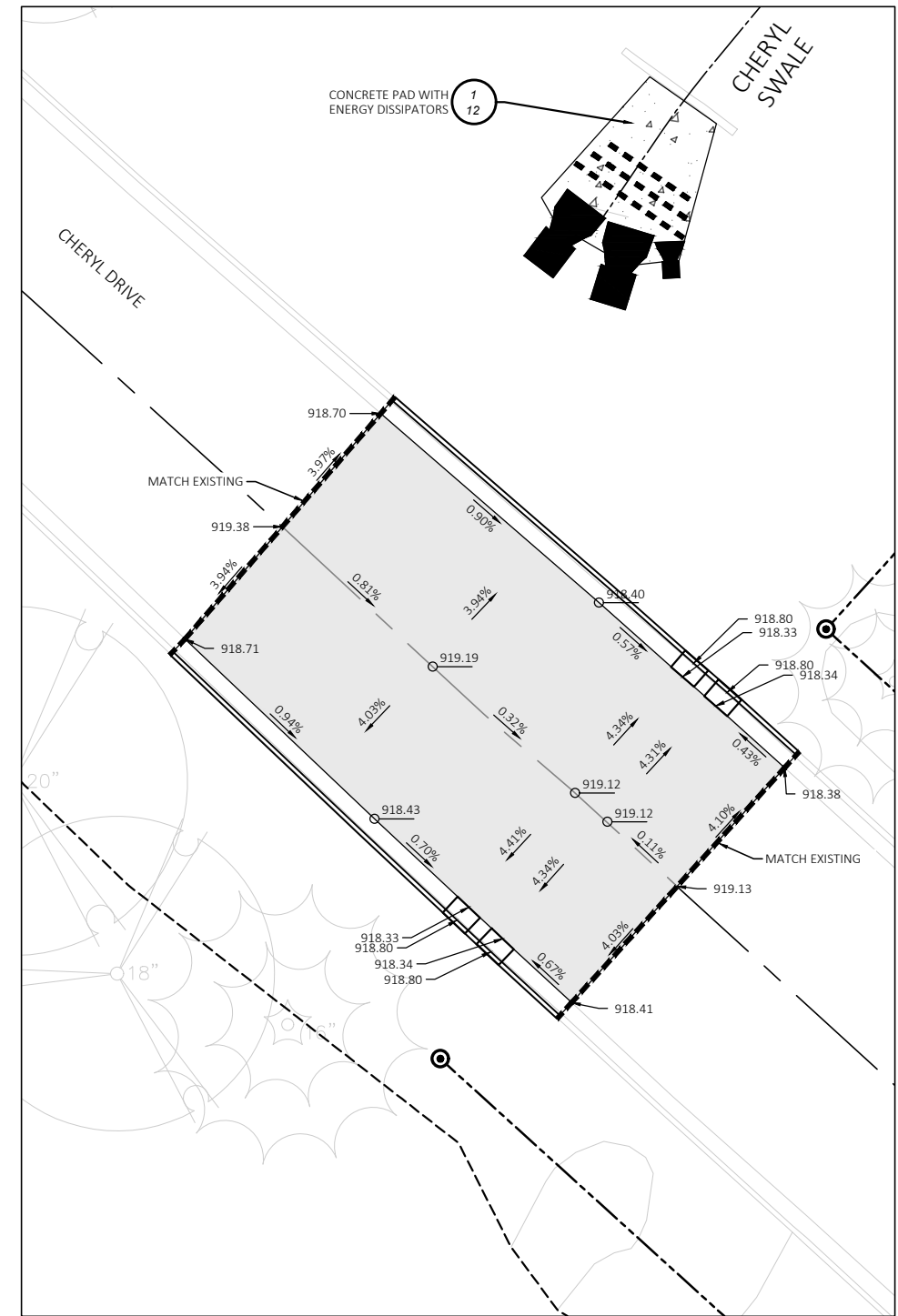
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MADISON, WI 53703 (608) 839.4422



CHERYL DRIVE AND PEMBROKE SWALE  
1" = 20'

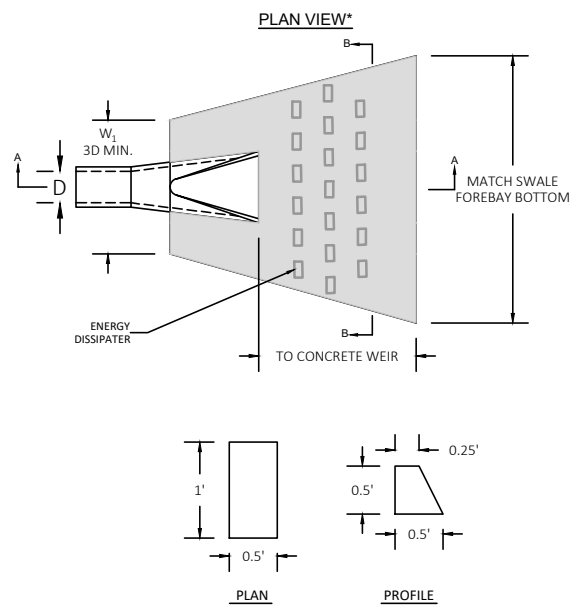


CHERYL DRIVE AND CHERYL SWALE  
1" = 20'

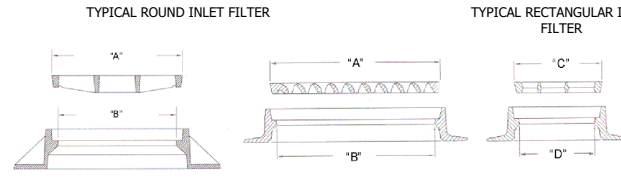
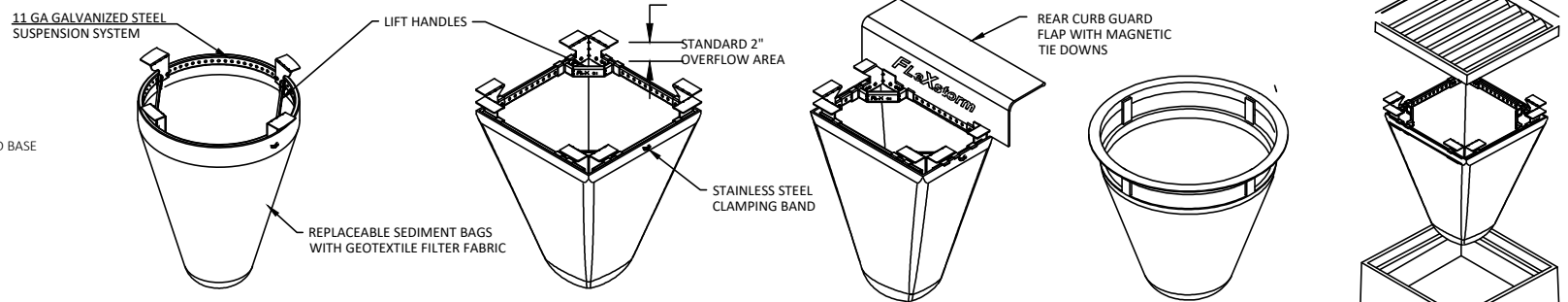
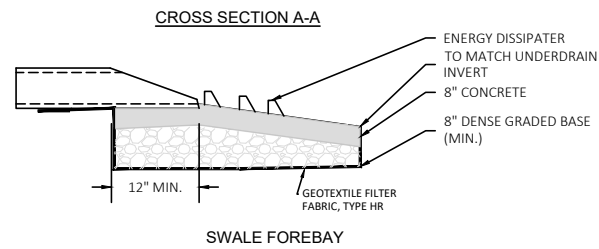
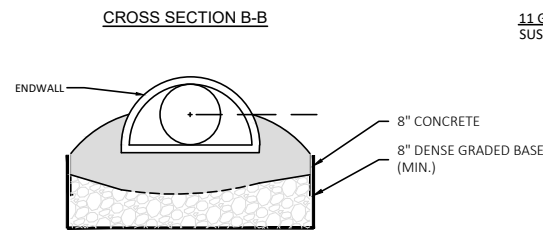
LP = LOW POINT  
TC = TOP OF CURB  
EP = EDGE OF PAVEMENT  
BOC = BACK OF CURB

- NOTES
1. MATCH EXISTING PAVEMENT ELEVATION AT PROPOSED PAVEMENT TIE-IN LOCATIONS
  2. VERIFY EXISTING PAVEMENT GRADES

REV	DESCRIPTION	DATE



**ENERGY DISSIPATOR**



**GENERAL NOTES**

1. INLET PROTECTION DEVICES SHALL BE MAINTAINED OR REPLACED AT THE DIRECTION OF THE ENGINEER.
2. WHEN REMOVING OR MAINTAINING INLET PROTECTION, CARE SHALL BE TAKEN SO THAT THE SEDIMENT TRAPPED DOES NOT FALL INTO THE INLET. ANY MATERIAL FALLING INTO THE INLET SHALL BE REMOVED IMMEDIATELY.

**INSTALLATION NOTES**

1. REMOVE GRATE.
2. DROP FLEXSTORM INLET FILTER ONTO LOAD BEARING LIP OF CASTING OR CONCRETE STRUCTURE.
3. REPLACE GRATE.

1. IDENTIFY YOUR FRAME STYLE AND SIZE		
STYLE	FRAME STYLE AND SIZE	Frame P/N:
ROUND	Small Round (up to 20.0" dia grates (A) dim)	62SRD
	Med Round (20.1" - 26.0" dia grates (A) up to 25" dia openings (B))	62MRD
	Large Round (26.1" - 32.0" dia grates (A) up to 30" openings (B))	62LRD
RECT / SQUARE	XL Round (32.1" dia - 39" dia grates (A) up to 37" dia openings (B))	62XLRD
	Small Rect / Square (up to 16" (B) x 16" (D) openings or 64" perimeter)	62SSQ
	Med Rect / Square (up to 24" (B) x 24" (D) openings or 96" perimeter)	62MSQ
COMBO INLETS	Large Rect / Square (up to 36" (B) x 24" (D) openings or 120" perimeter)	62LSQ
	XL Rect / Square (side by side 2 pc set to fit up to 48" (B) x 36" (D) openings)	62XLSQ
	Small Rect / Square (ref Rect sizing; shipped with Magnetic Curb Flaps)	62SCB
NYLOPLAST	Med Rect / Square (ref Rect sizing; shipped with Magnetic Curb Flaps)	62MCB
	Large Rect / Square (ref Rect sizing; shipped with Magnetic Curb Flaps)	62LCB
	XL Rect / Square (ref Rect sizing; shipped with Magnetic Curb Flaps)	62XLCB
	12" diameter Nyloplast castings (Stainless Steel Framing standard)	62L2NY
	15" diameter Nyloplast castings (Stainless Steel Framing standard)	62L5NY
	18" diameter Nyloplast castings (Stainless Steel Framing standard)	62L8NY
	24" diameter Nyloplast castings (Stainless Steel Framing standard)	62L24NY
	30" diameter Nyloplast castings (Stainless Steel Framing standard)	62L30NY

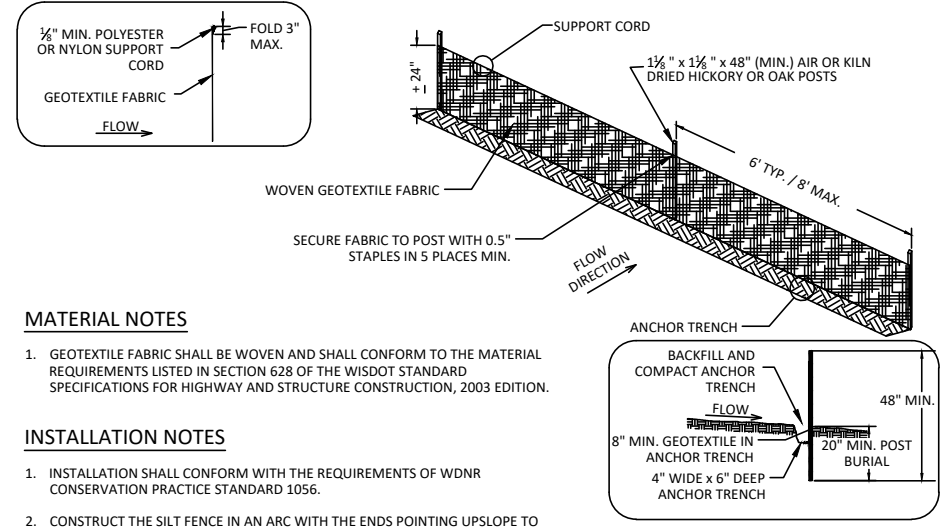
SPECIFICATIONS FOR STANDARD BAGS BY NOMINAL SIZE			
Nominal Bag Size	Solids Storage (CuFt)	Filtered Flow Rate at 50% Max (CFS)	
		FX (Woven)	IL (NonWoven)
Small	1.6	1.2	0.9
Medium	2.1	1.7	1.3
Large	3.8	2.7	1.9
XL	4.2	3.6	2.6

2. SELECT YOUR BAG PART NUMBER				
FLEXSTORM FILTER BAGS	(22" depth) STD Bag P/N	(12" depth) Short Bag P/N	Clean Water Flow Rate (GPM/SqFt)	Min A.O.S. (US Sieve)
FX: Standard Woven Bag	FX	FX-S	200	40
IL: DOT Non-Woven Bag	IL	IL-S	145	70

3. CREATE YOUR FLEXSTORM INLET FILTER PART NUMBER	
Frame P/N from Step 1.	Filter Bag P/N from Step 2.

**1 CONCRETE PAD WITH ENERGY DISSIPATORS**

**3 INLET PROTECTION, FRAMED (FLEXFORM CATCH-IT)**



**MATERIAL NOTES**

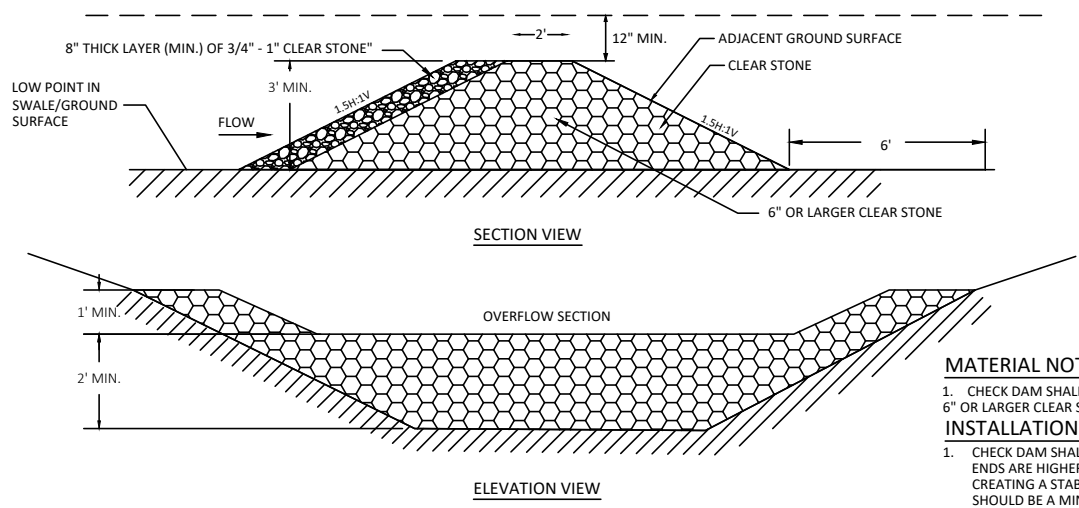
1. GEOTEXTILE FABRIC SHALL BE WOVEN AND SHALL CONFORM TO THE MATERIAL REQUIREMENTS LISTED IN SECTION 628 OF THE WISDOT STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION, 2003 EDITION.

**INSTALLATION NOTES**

1. INSTALLATION SHALL CONFORM WITH THE REQUIREMENTS OF WDNR CONSERVATION PRACTICE STANDARD 1056.
2. CONSTRUCT THE SILT FENCE IN AN ARC WITH THE ENDS POINTING UPSLOPE TO AVOID EROSION AROUND THE ENDS OF THE FENCE.
3. FAILURE TO PROPERLY ANCHOR SILT FENCE COULD RESULT IN WATER AND SEDIMENT RELEASE BENEATH THE SILT FENCE. PROPERLY SECURE THE SILT FENCE INTO THE ANCHOR TRENCH.
4. CONSTRUCT THE FENCE FROM A CONTINUOUS ROLL OF GEOTEXTILE TO AVOID JOINTS. WHERE JOINTS ARE NECESSARY, OVERLAP TO THE NEXT POST OR WRAP ADJOINING FABRICS TOGETHER AROUND THE JOINT POST AND TIGHTLY FASTEN.
5. SILT FENCE SHALL NOT BE USED IN AREAS OF CONCENTRATED FLOW.

**INSPECTION & MAINTENANCE NOTES**

1. AT A MINIMUM, PERFORM INSPECTIONS WEEKLY AND WITHIN 24 HOURS OF PRECIPITATION EVENTS PRODUCING 0.5 INCHES OR MORE OF RAINFALL.
2. INSPECT FENCES FOR DAMAGE TO STAKES AND FABRIC, UNDERCUTTING, EXCESSIVE SEDIMENT ACCUMULATION (GREATER THAN 1/2 OF THE FENCE HEIGHT), AND INDICATIONS OF SCOUR AROUND THE EDGES.
3. REPAIR OR REPLACE SILT FENCE WITHIN 24 HOURS OF IDENTIFYING ANY DEFICIENCIES.



**MATERIAL NOTES**

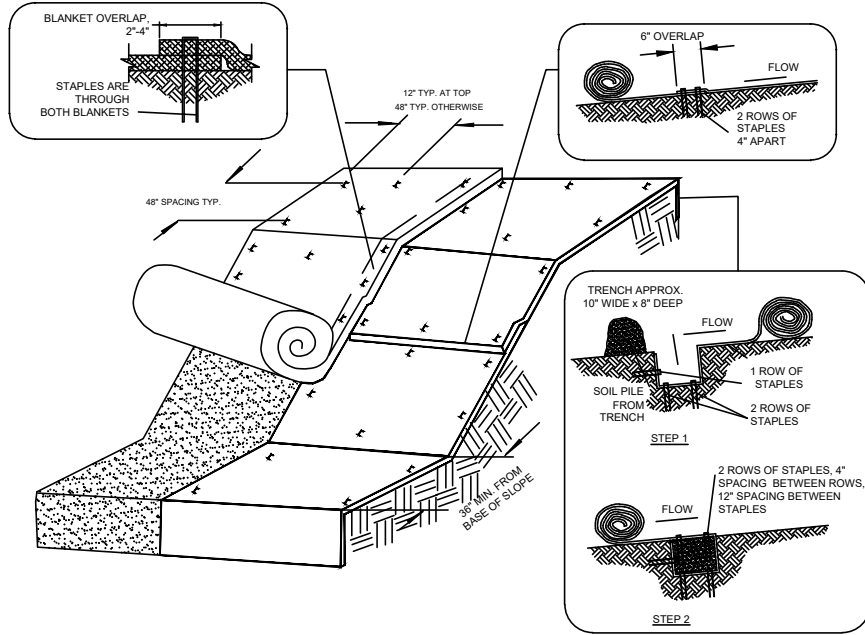
1. CHECK DAM SHALL BE CONSTRUCTED USING 6" OR LARGER CLEAR STONE.

**INSTALLATION NOTES**

1. CHECK DAM SHALL BE INSTALLED SUCH THAT ENDS ARE HIGHER THAN THE CENTER CREATING A STABLE OVERFLOW POINT. ENDS SHOULD BE A MINIMUM OF 6" HIGHER THAN THE EXPECTED DESIGN WATER LEVEL.
2. IF CHECK DAM USED ON A TEMPORARY SEDIMENT TRAP, A SUMP AREA WITH A MINIMUM DEPTH OF 3 FEET SHALL BE EXCAVATED UPSTREAM OF CHECK DAM.
3. REMOVE DITCH CHECKS ONCE SITE IS 70% UNIFORMLY ESTABLISHED AND RESTORE DISTURBED AREAS.

**2 SILT FENCE**

**4 ROCK CHECK DAM / STONE WEEPER**



**MATERIAL NOTES**

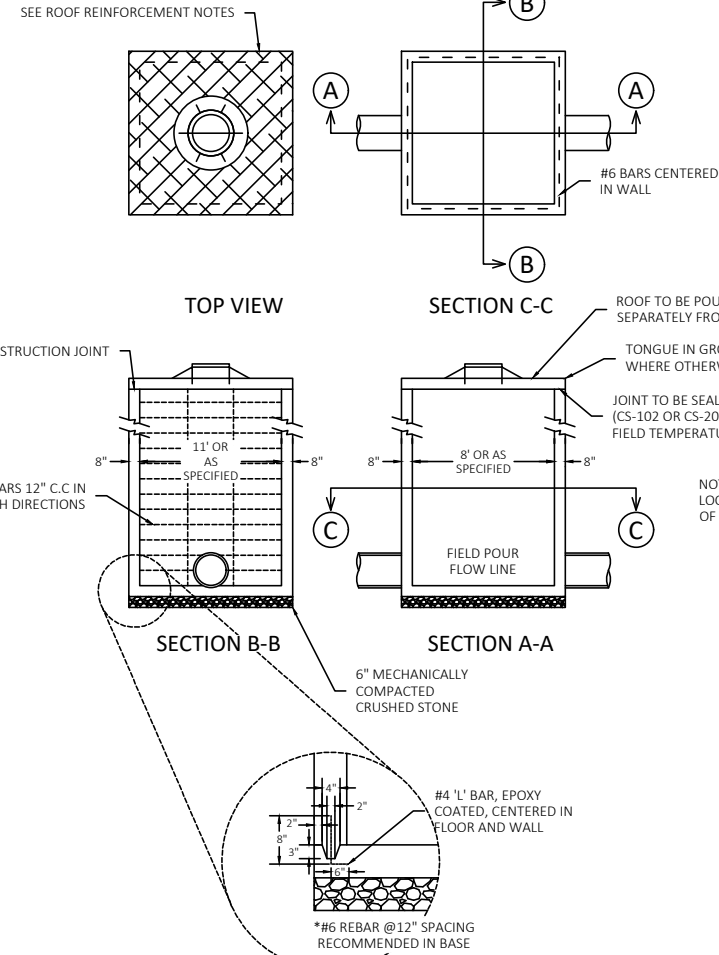
1. STAPLES USED FOR CLASS I TYPES B MATS SHALL BE 1-2 INCH WIDE, U-SHAPED, MADE OF NO.11 (3.05mm) OR LARGER DIAMETER STEEL WIRE, AND NOT LESS THAN 6 INCHES LONG FOR FIRM SOILS AND 12 INCHES LONG FOR LOOSE SOILS.
2. ANCHORING DEVICES FOR URBAN MATS SHALL BE SELECTED BASED UPON THE REQUIREMENTS OF THE WISDOT PAL.

**INSTALLATION NOTES**

1. INSTALLATION SHALL CONFORM WITH WDNR CONSERVATION PRACTICE STANDARD 1052.
2. EROSION MAT SHALL BE IN FIRM AND CONTINUOUS CONTACT WITH THE SOIL AND EXTEND UPSLOPE ONE-FOOT FROM LAND DISTURBANCE.
3. EROSION MAT SHALL BE ANCHORED, OVERLAPPED, STAKED AND ENTRENCHED PER THE MANUFACTURER'S RECOMMENDATIONS. THIS STANDARD DETAIL IS AN EXAMPLE OF TYPICAL INSTALLATION GUIDANCE.
4. WHERE POSSIBLE, USE A SINGLE ROLL OF EROSION CONTROL MAT TO SPAN THE DISTURBED AREA.

**INSPECTION & MAINTENANCE NOTES**

1. AT A MINIMUM, PERFORM INSPECTIONS WEEKLY AND WITHIN 24 HOURS OF PRECIPITATION EVENTS PRODUCING 0.5 INCHES OR MORE OF RAINFALL.
2. INSTALL ADDITIONAL ANCHORING IN AREAS OF OBSERVED RILLING AND CONCENTRATED FLOW BENEATH THE EROSION MAT. IF RILLING IS SEVERE ENOUGH TO PREVENT VEGETATION ESTABLISHMENT, REMOVE EROSION MAT, REGRADE, COMPACT, RE-SEED, AND REPLACE THE SECTION OF MAT.
3. IF PRODUCTS WITH PLASTIC NETTING ARE USED, REMOVE NETTING OR REPLACE MAT IF SEPARATION OF THE NETTING FROM THE MAT IS OBSERVED.
4. ALL MAINTENANCE ACTIVITIES SHOULD OCCUR AS SOON AS POSSIBLE WITH CONSIDERATION OF SITE CONDITIONS.



- ROOF REINFORCEMENT NOTES**
1. EPOXY COATED REBARS SHALL BE USED IN ALL CASES.
  2. #6 BARS PLACED ON 6" CENTERS FOR 3'x3', 4'x4', 4'x5', 5'x5' STRUCTURES.
  3. #6 BARS PLACES ON 4" CENTERS FOR 6'x5', 6'x6' AND LARGER STRUCTURES.
  4. 3" CLEAR SHALL BE MAINTAINED IN ALL CASES.
  5. ROOF THICKNESS SHALL BE 8" MINIMUM UNLESS SPECIFIED OTHERWISE.

NOTE: CASTING TYPE AND LOCATION PER PLANS AND CITY OF FITCHBURG SPECIFICATIONS

**7 POURED IN PLACE STRUCTURE**

**MATERIAL NOTES**

1. ONLY PRODUCTS LISTED IN THE WISCONSIN DEPARTMENT OF TRANSPORTATION EROSION CONTROL PRODUCT ACCEPTABILITY LIST (PAL) ARE ACCEPTABLE FOR USE.
2. INSTALL STAKES PER SPECIFICATIONS.

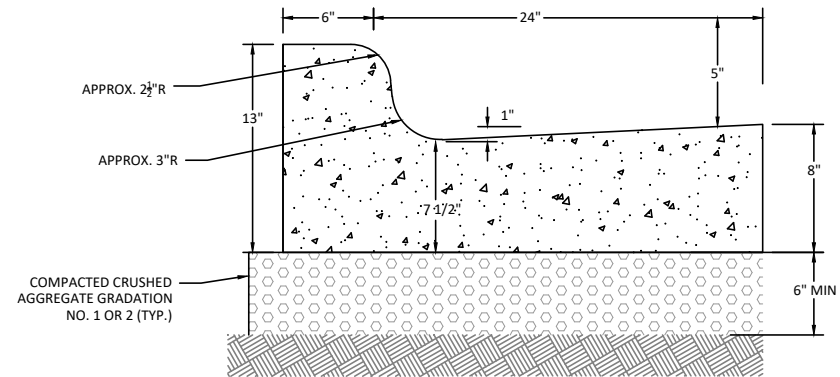
**INSTALLATION NOTES**

1. EROSION CONTROL REVEGETATIVE MATS (ECRM) SHALL BE INSTALLED AFTER TOPSOIL AND SEED HAVE BEEN PLACED.
2. INSTALLATION OF ECRM SHOULD BE COORDINATED WITH PERMANENT RESTORATION PRACTICES.
3. INSTALLATION SHALL CONFORM WITH WDNR CONSERVATION PRACTICE STANDARD 1053.
4. ALL PRODUCTS SHALL BE INSTALLED PER THE MANUFACTURER'S RECOMMENDATIONS. THIS STANDARD DETAIL IS AN EXAMPLE OF TYPICAL INSTALLATION GUIDANCE.
5. MATS SHALL BE IN FIRM AND CONTINUOUS CONTACT WITH THE SOIL.
6. IF SECTIONS OF ECRM NEED TO BE OVERLAPPED, ENSURE THAT THE OVERLAP IS FACING DOWNSTREAM TO PREVENT WATER FROM FLOWING BENEATH THE ECRM.

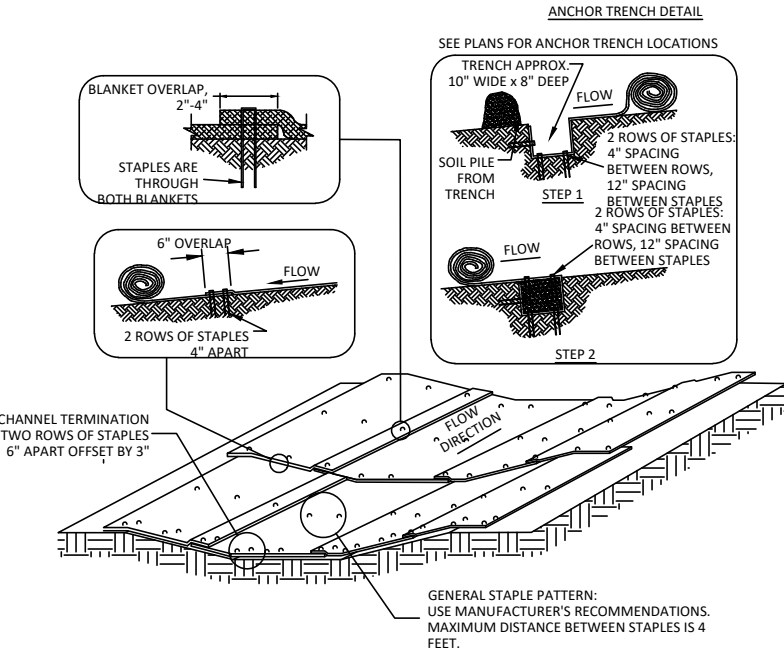
**INSPECTION & MAINTENANCE NOTES**

1. INSTALL ADDITIONAL ANCHORING IN AREAS OF OBSERVED RILLING AND CONCENTRATED FLOW BENEATH THE EROSION MAT. IF RILLING IS SEVERE ENOUGH TO PREVENT VEGETATION ESTABLISHMENT, REMOVE EROSION MAT, REGRADE, COMPACT, RE-SEED, AND REPLACE THE SECTION OF MAT.
2. ALL MAINTENANCE ACTIVITIES SHOULD OCCUR AS SOON AS POSSIBLE WITH CONSIDERATION OF SITE CONDITIONS.

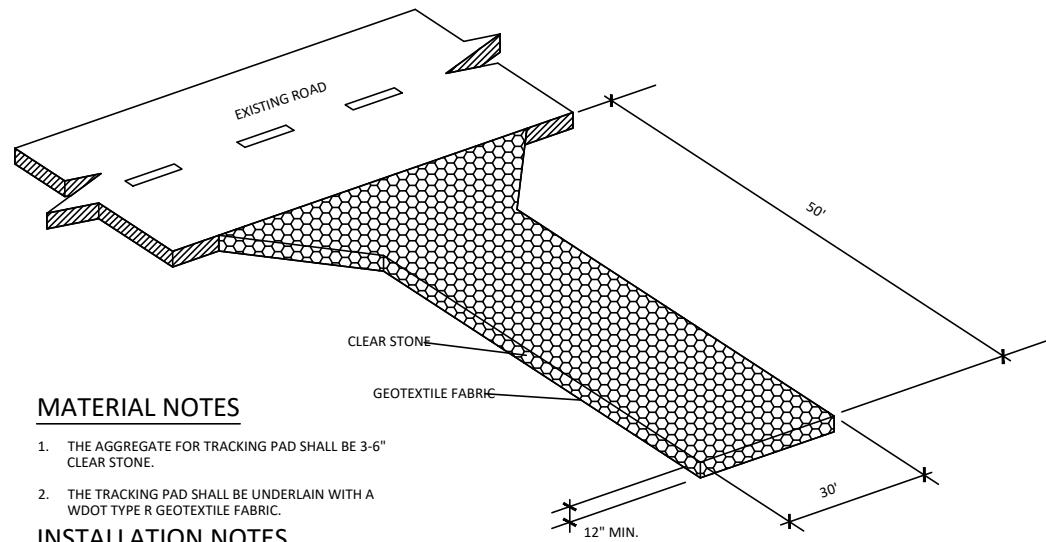
**8 30" CONCRETE CURB AND GUTTER (ACCEPT)**



**5 EROSION CONTROL MAT (SLOPES)**



**6 EROSION CONTROL MAT (CHANNELS)**



**MATERIAL NOTES**

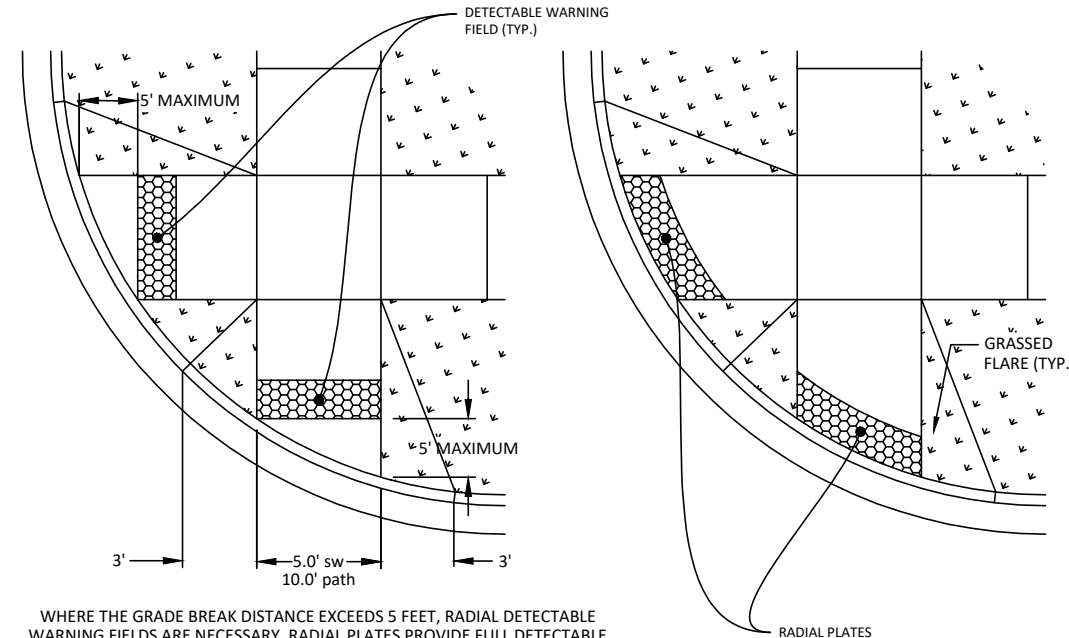
1. THE AGGREGATE FOR TRACKING PAD SHALL BE 3-6" CLEAR STONE.
2. THE TRACKING PAD SHALL BE UNDERLAIN WITH A WDOT TYPE R GEOTEXTILE FABRIC.

**INSTALLATION NOTES**

1. INSTALLATION SHALL CONFORM WITH THE REQUIREMENTS OF WDNR CONSERVATION PRACTICE STANDARD 1057.
2. THE TRACKING PAD SHALL BE INSTALLED PRIOR TO ANY TRAFFIC LEAVING THE SITE. STONE TRACKING PAD SHALL BE USED AT ALL POINTS OF CONSTRUCTION EGRESS.
3. DIMENSIONS OF THE TRACKING PAD SHALL BE MINIMUM AS NOTED ON THE FIGURE ABOVE.
4. SURFACE WATER SHALL BE PREVENTED FROM PASSING THROUGH THE TRACKING PAD. FLOWS SHALL BE DIVERTED AWAY FROM TRACKING PADS OR CONVEYED UNDER AND AROUND THEM USING CULVERTS OR OTHER PRACTICES.
5. TRACKING PAD SHALL BE REMOVED OR INCORPORATED INTO GRAVEL DRIVEWAY ONLY AFTER CONSTRUCTION IS COMPLETE AND THE SITE HAS BEEN STABILIZED.

**INSPECTION & MAINTENANCE NOTES**

1. STONE TRACKING PADS SHALL BE INSPECTED WEEKLY AND WITHIN 24 HOURS AFTER EVERY PRECIPITATION EVENT THAT PRODUCES 0.5 INCHES OF RAIN OR MORE DURING A 24 HOUR PERIOD.
2. ADDITIONAL AGGREGATE SHALL BE PLACED IF THE TRACKING PAD BECOMES BURIED OR IF SEDIMENT IS NOT BEING REMOVED EFFECTIVELY FROM THE VEHICLE TIRES.
3. A MINIMUM 30-FOOT WIDE BY 50-FOOT LONG BY 12-INCH THICK PAD SHALL BE MAINTAINED AT ALL TIMES.
4. THE TRACKING PAD PERFORMANCE SHALL BE MAINTAINED BY SCRAPING OR TOP-DRESSING WITH ADDITIONAL AGGREGATE.
5. ANY SEDIMENT TRACKED ONTO A PUBLIC OR PRIVATE ROAD SHOULD BE REMOVED BY STREET CLEANING AT THE END OF EACH WORKING DAY.
6. MAINTENANCE SHALL BE COMPLETED AS SOON AS POSSIBLE WITH CONSIDERATION FOR SITE CONDITIONS.



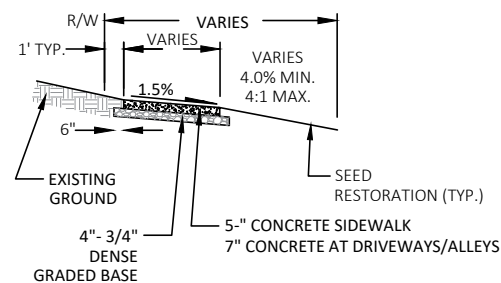
WHERE THE GRADE BREAK DISTANCE EXCEEDS 5 FEET, RADIAL DETECTABLE WARNING FIELDS ARE NECESSARY. RADIAL PLATES PROVIDE FULL DETECTABLE COVERAGE IMMEDIATELY AT BACK OF CURB.

**GENERAL NOTES FOR ALL SIDEWALK RAMPS**

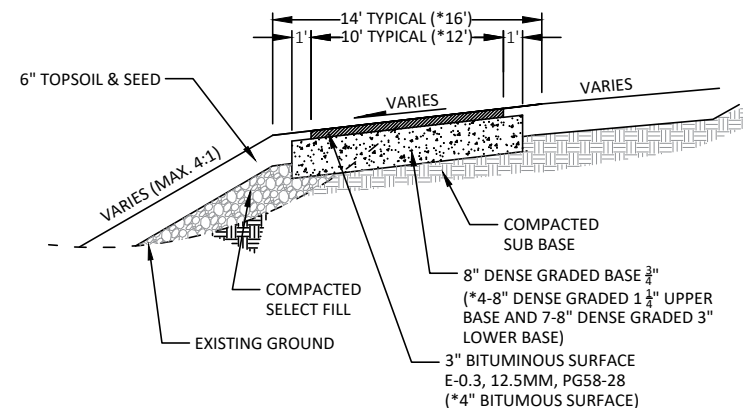
1. INSTALL CURB CUTS AT SIDEWALK RAMPS WITH EITHER FULL REMOVAL AND REPLACEMENT OR BY "SAWCUTTING" THE CURB HEAD.
2. CURB TAPERS AT CURB CUTS SHALL BE 36" UNLESS OTHERWISE DIRECTED BY THE ENGINEER OR OTHERWISE SHOWN ON PLANS.
3. THE WIDTH OF THE FLAT BOTTOM OF THE RAMP AT THE CURB SHALL BE 60" MINIMUM.
4. THE MAXIMUM SLOPE OF THE RAMP BETWEEN THE BACK OF THE CURB AND THE FRONT OF THE DETECTABLE WARNING FIELD SHALL NOT EXCEED 2%. THE MAXIMUM SLOPE OF THE RAMP BETWEEN THE FRONT OF THE DETECTABLE WARNING FIELD AND THE SIDEWALK SHALL NOT EXCEED 7%.
5. ALL HANDICAP RAMPS SHALL INCLUDE DETECTABLE WARNING FIELDS WITH TRUNCATED DOMES.
6. DETECTABLE WARNING FIELD SHALL BE ORIENTED IN A MANNER THAT IT IS PARALLEL TO THE DIRECTION OF PEDESTRIAN TRAFFIC. WHEN CURB IS PERPENDICULAR TO DIRECTION OF PEDESTRIAN TRAFFIC, INSTALL DETECTABLE WARNING FIELD TIGHT TO BACK OF CURB.
7. FOR A SIDEWALK RAMP, DETECTABLE WARNINGS SHALL BE A MINIMUM OF 5' X 2'. FOR A BIKE PATH RAMP, DETECTABLE WARNINGS SHALL BE A MINIMUM OF 10' X 2'.
8. WHEN CONDITIONS REQUIRE MORE INFORMATION, REFER TO "UFAS" (UNIFORM FEDERAL ACCESSIBILITY STANDARDS).

10 CURB RAMP DETAIL  
14

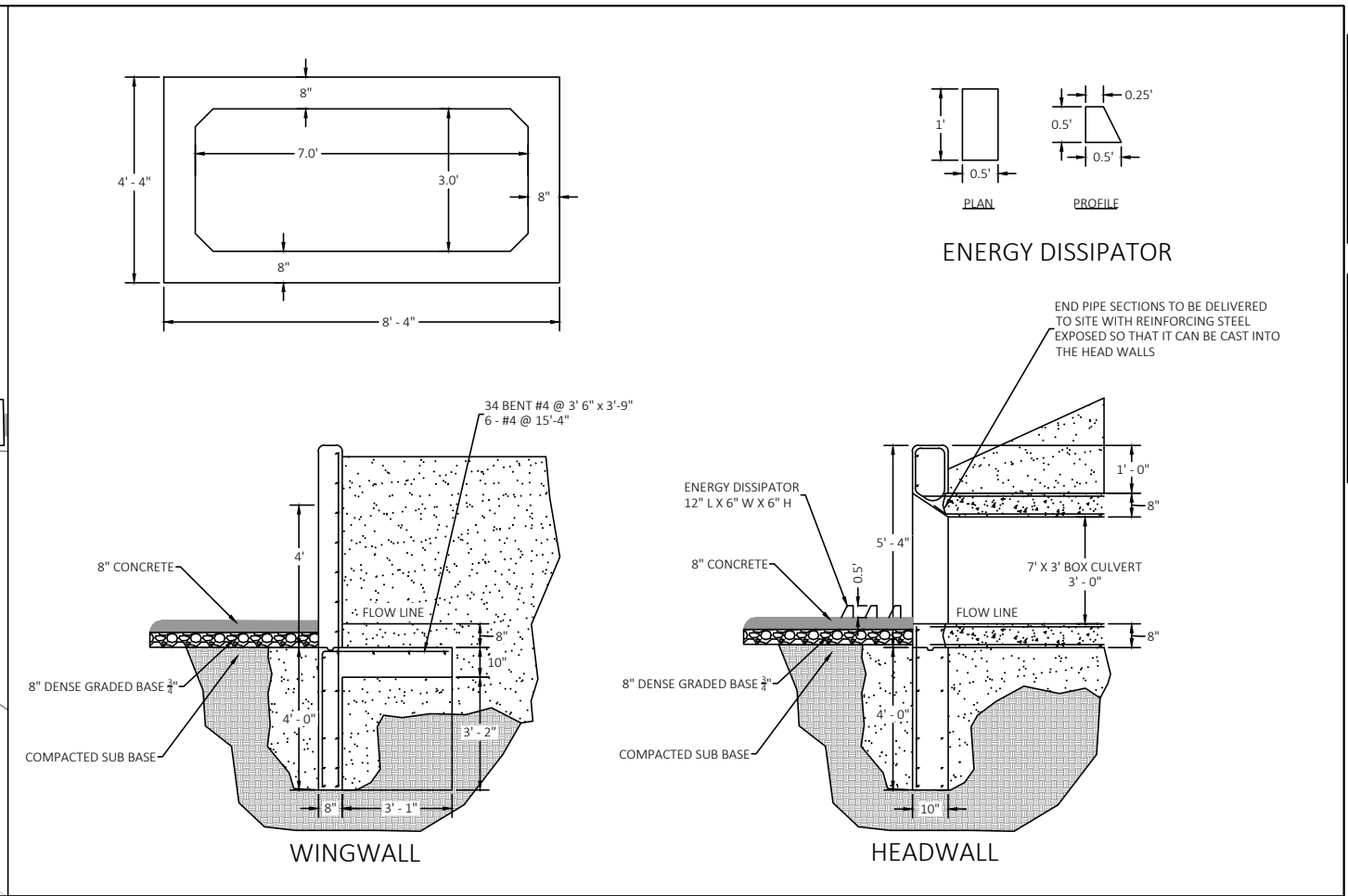
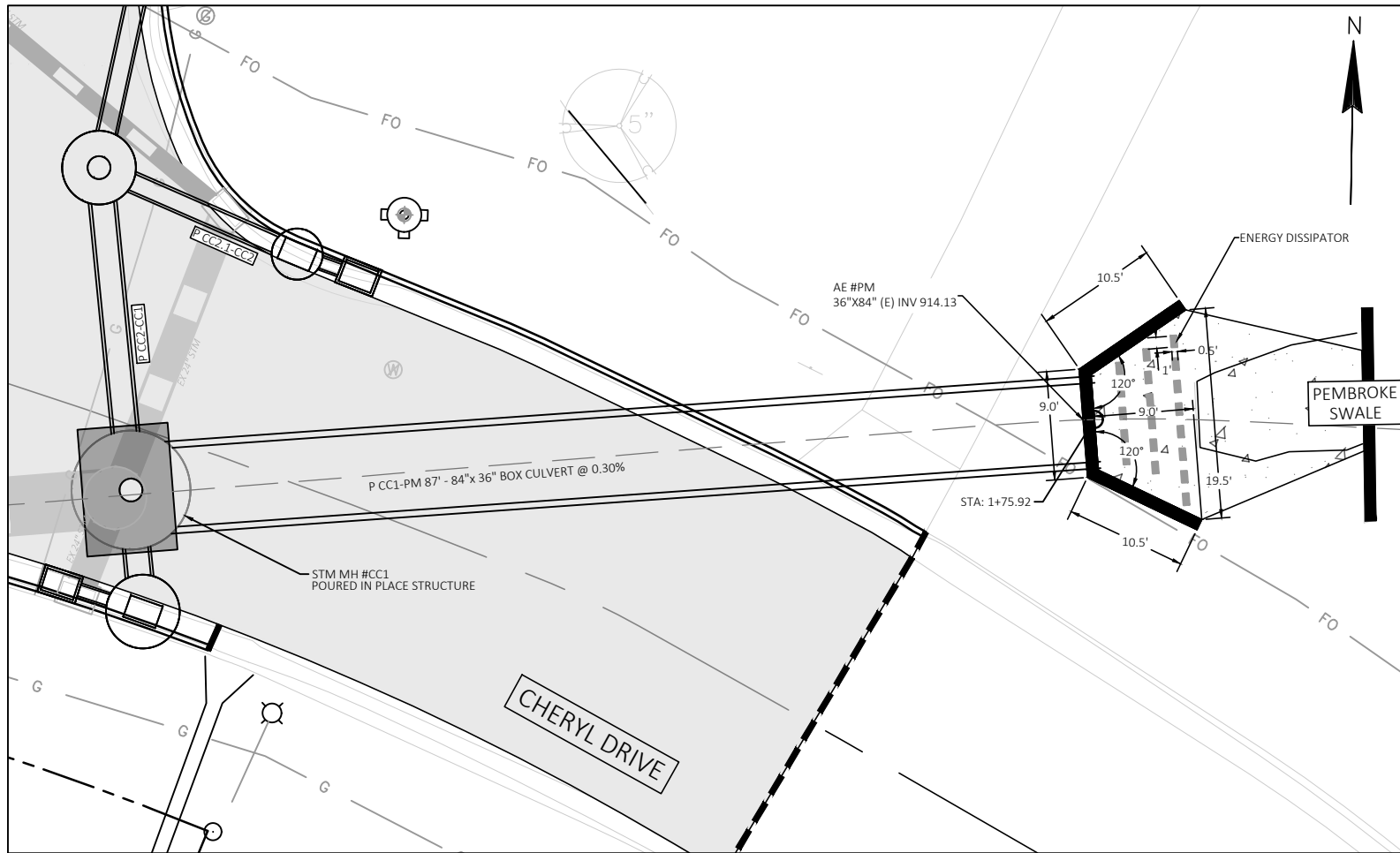
9 CONSTRUCTION ENTRANCE (TRACKING PAD)  
14



11 SIDEWALK TYPICAL SECTION  
14



12 MULTI-USE IMPERVIOUS PATH SECTION  
14



REV	DESCRIPTION	DATE
1		
2		
3		
4		
5		

NOTE: ALL STEEL TO BE PLACED IN A 12" x 12" GRID

