COPPER ROCKS DEVELOPMENT

LA CROSSE, WISCONSIN **ISG PROJECT # 21-25290**

LEGEND

DECIDUOUS TREE **CONIFEROUS TREE** MANHOLE/STRUCTURE CATCH BASIN **CURB STOP** POWER POLE UTILITY PEDESTAL / CABINET

PROPOSED — — — — — — — — EASEMENT STORM SEWER (PIPE WIDTH) SANITARY SEWER (PIPE WIDTH)

MANHOLE (STORM, SANITARY) CATCH BASIN

ADA AMERICANS WITH DISABILITIES ACT DIA DIAMETER

ARCH ARCHITECT, ARCHITECTURAL ELEV ELEVATION

BASEMENT FLOOR ELEVATION EOF EMERGENCY OVERFLOW

DIM DIMENSION

DS DOWNSPOUT

ELEC ELECTRICAL

EX EXISTING

EACH

EQUAL

FES FLARED END SECTION

FPM FEET PER MINUTE

FTG FOOTING

GAUGE

GALV GALVANIZED

GL GUTTER LINE

GPM GALLONS PER MINUTE

GALLON

FOOT, FEET

FFE FINISHED FLOOR ELEVATION

GENERAL CONTRACTOR

GARAGE FLOOR ELEVATION

FDC FIRE DEPARTMENT CONNECTION ID

ADD ADDENDUM

AGG AGGREGATE

APPROX APPROXIMATE

BIT BITUMINOUS

AFF ABOVE FINISHED FLOOR

CAD COMPUTER-AIDED DESIGN

CAST IRON

CENTERLINE

CIPC CAST IN PLACE CONCRETE

CMP CORRUGATED METAL PIPE CO CLEANOUT

CIP CAST IRON PIPE

CJ CONTROL JOINT

CONC CONCRETE

CONST CONSTRUCTION

CONT CONTINUOUS

CY CUBIC YARD

C&G CURB AND GUTTER

HDPE HIGH DENSITY POLYETHYLENE MIN MINIMUM

MISC MISCELLANEOUS

NWL NORMAL WATER LEVEL

OCEW ON CENTER EACH WAY

PED PEDESTAL, PEDESTRIAN

PSI POUNDS PER SQUARE INCH

PVC POLYVINYL CHLORIDE

NTS NOT TO SCALE

OC ON CENTER

OH OVERHEAD

PERF PERFORATED

PL PROPERTY LINE

PVMT PAVEMENT

QTY QUANTITY

RAD RADIUS

RD ROOF DRAIN

REM REMOVE

REBAR REINFORCING BAR

R RIM

LSO LOWEST STRUCTURAL OPENING RCP REINFORCED CONCRETE PIPE

PP POLYPROPYLENE

OZ OUNCE

OHD OVERHEAD DOOR

NO NUMBER

HD HEAVY DUTY

HORIZ HORIZONTAL

HR HOUR

HWY HIGHWAY

HANDHOLE

HWL HIGH WATER LEVE

HYDRANT

INVERT

INSIDE DIAMETER

IRON PIPE SIZE

J-BOX JUNCTION BOX

JOINT

LINEAR

MAX MAXIMUM

MB MAIL BOX

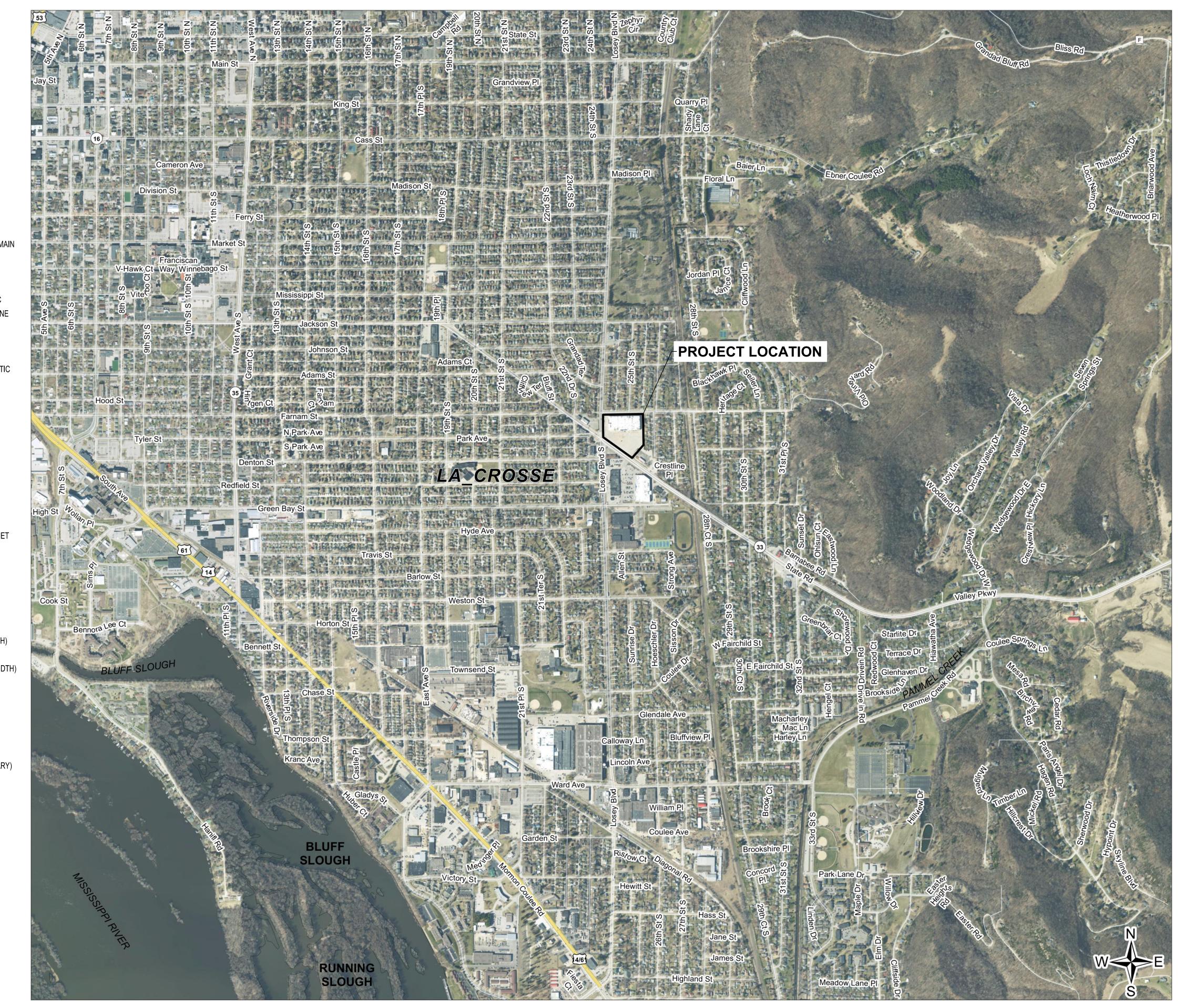
MECH MECHANICAL

LIN

LINEAR FEET

LUMP SUM

LOW PRESSURE STEAM



SCALE IN FEET

SHEET INDEX

PDD SPECIFIC PLAN SUBMITTAL

WITHOUT PRIOR WRITTEN CONSENT.

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COPPER ROCKS

DEVELOPMENT

DESCRIPTION

CONDITIONS REQUIRING INFORMATION OR CLARIFICATION BEFORE PROCEEDING WITH THE WORK. DETAILS SHOWN ARE INTENDED TO BE INDICATIVE OF THE PROFILES AND TYPE OF DETAILING REQUIRED THROUGHOUT THE WORK. DETAILS NOT SHOWN ARE SIMILAR IN CHARACTER TO DETAILS SHOWN. WHERE SPECIFIC DIMENSIONS, DETAILS OR DESIGN INTENT

1. ALL WORK SHALL CONFORM TO THE CONTRACT

DOCUMENTS, WHICH INCLUDE, BUT ARE NOT LIMITED TO, THE OWNER - CONTRACTOR AGREEMENT, THE PROJECT

MANUAL (WHICH INCLUDES GENERAL SUPPLEMENTARY

CONDITIONS AND SPECIFICATIONS), DRAWINGS OF ALL

DISCIPLINES AND ALL ADDENDA, MODIFICATIONS AND

SUBCONTRACTORS BY THE GENERAL CONTRACTOR IN COMPLETE SETS IN ORDER TO ACHIEVE THE FULL EXTENT

DIMENSIONS. NOTIFY ARCHITECT/ENGINEER OF ANY

FIELD VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS. NOTIFY ARCHITECT/ENGINEER OF ANY DISCREPANCIES OR

CONTRACT DOCUMENTS SHALL BE ISSUED TO ALL

AND COMPLETE COORDINATION OF ALL WORK

CANNOT BE DETERMINED, NOTIFY ARCHITECT/ENGINEER BEFORE PROCEEDING WITH THE WORK. ALL MANUFACTURED ARTICLES, MATERIALS AND EQUIPMENT SHALL BE APPLIED, INSTALLED, CONNECTED, ERECTED, CLEANED AND CONDITIONED ACCORDING TO MANUFACTURERS' INSTRUCTIONS. IN CASE OF DISCREPANCIES BETWEEN MANUFACTURERS' INSTRUCTIONS AND THE CONTRACT DOCUMENTS, NOTIFY

ARCHITECT/ENGINEER BEFORE PROCEEDING WITH THE

SPECIFICATIONS REFERENCE

CROSSE STANDARD SPECIFICATIONS, CURRENT EDITION, WISDOT

STANDARD SPECIFICATION FOR SEWER & WATER CONSTRUCTION

CONSTRUCTION AND MATERIALS MANUAL, CURRENT EDITION,

WISCONSIN DEPARTMENT OF SAFETY AND PROFESSIONAL

SERVICES STATE PLUMBING CODE, CURRENT EDITION, AND

IN WISCONSIN, 6th EDITION, UNLESS DIRECTED OTHERWISE.

ALL CONSTRUCTION SHALL COMPLY WITH THE CITY OF LA

STANDARD SPECIFICATIONS, 2022 EDITION, WISDOT

www.DiggersHotline.com

7. ALL DISSIMILAR METALS SHALL BE EFFECTIVELY ISOLATED

SHOWN ON THE PLANS ARE FOR GENERAL INFORMATION

ONLY AND ARE ACCURATE AND COMPLETE TO THE BEST

SHALL VERIFY THE SIZES, LOCATIONS AND ELEVATIONS OF

OF THE KNOWLEDGE OF I & S GROUP, INC. (ISG). NO WARRANTY OR GUARANTEE IS IMPLIED. THE CONTRACTO

FOR UTILITY LOCATIONS, MINIMUM 3 BUSINESS DAYS

21-25290 DRAWN BY **DESIGNED BY** AAQ/SMW/KBR REVIEWED BY ORIGINAL ISSUE DATE --/--CLIENT PROJECT NO.

TOPOGRAPHIC SURVEY

THIS PROJECTS TOPOGRAPHIC SURVEY CONSISTS OF DATA COLLECTED IN FEBRUARY AND MARCH

B.M. ELEVATION = 668.24

TNFH LOCATED AT THE NE QUAD OF

FARNAM AND 25TH STREET SOUTH

TITLE

G1-10

PROJECT INDEX:

OWNER:

R/W RIGHT OF WAY

SPEC SPECIFICATION

T/C TOP OF CURB

TEL TELEPHONE

TEMP TEMPORARY

THRU THROUGH

TV TELEVISION

TYP TYPICAL

W/O WITHOUT

W/ WITH

YD YARD YR YEAR

T/W TOP OF WALL

TELEPHONE

VCP VITRIFIED CLAY PIPE

TRANS TRANSFORMER

SQUARE

SQUARE FOOT

SQUARE YARD

TNFH TOP NUT OF FIRE HYDRANT

UTILITY, UNDERGROUND

SAN SANITARY

SCH SCHEDULE

STA STATION

MKB COPPER ROCKS, LLC 3800 EMERALD DRIVE EAST **ONALASKA WISCONSIN 54650** PH: 608.779.2702

PROJECT ADDRESS / LOCATION:

2415 STATE ROAD LA CROSSE WISCONSIN 54601

MANAGING OFFICE:

LA CROSSE OFFICE **201 MAIN STREET SUITE 1020** LA CROSSE, WI 54601 PHONE: 608.789.2034

PROJECT MANAGER: KRIS ROPPE

EMAIL: KRIS.ROPPE@ISGINC.COM

ISG

HORIZONTAL COORDINATES HAVE BEEN REFERENCED TO THE NORTH AMERICAN DATUM OF 1983 (NAD83), 2011 ADJUSTMENT (NAD83(2011)) ON THE LA CROSSE COUNTY COORDINATE SYSTEM, IN U.S. SURVEY FEET.

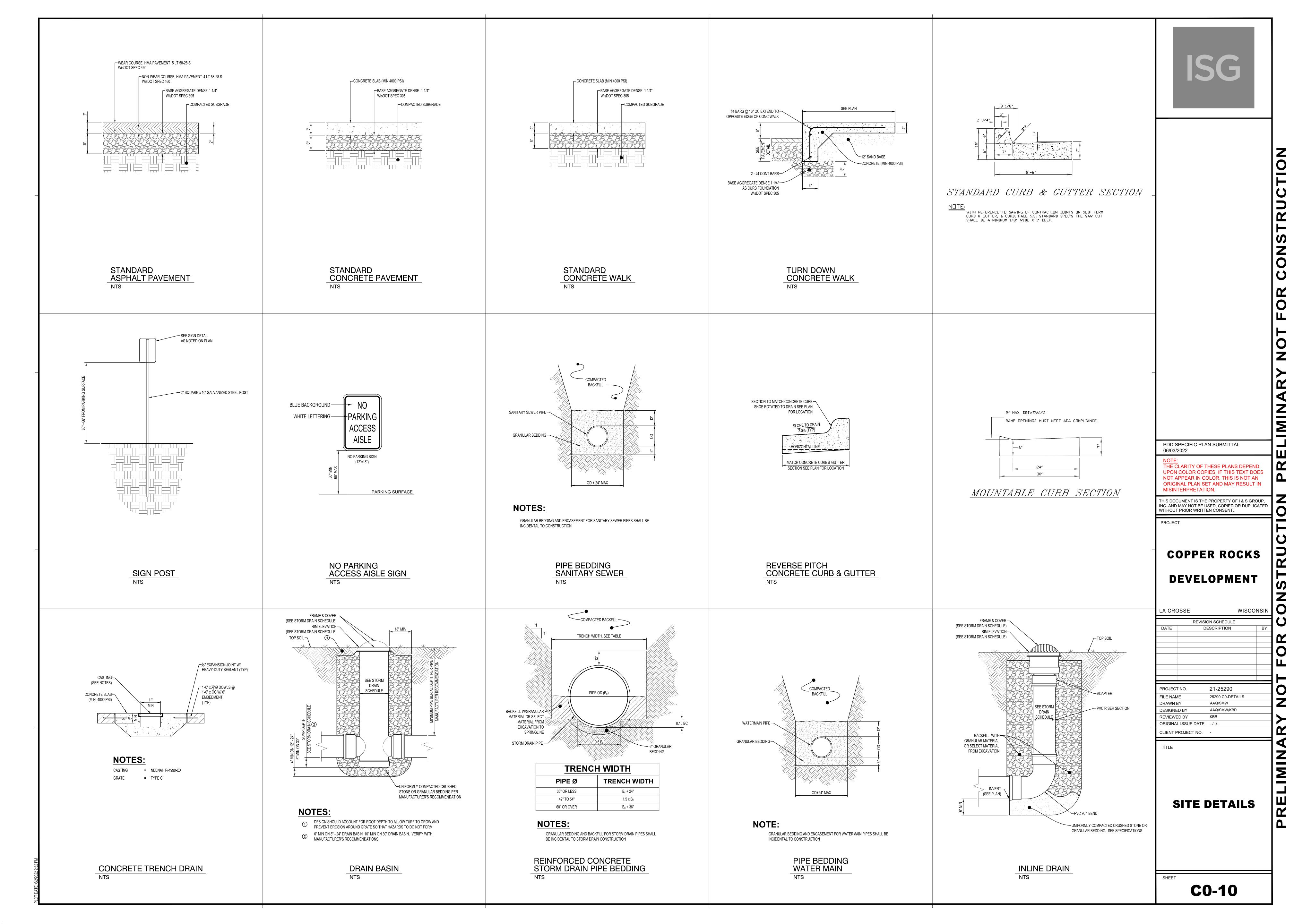
PROJECT DATUM

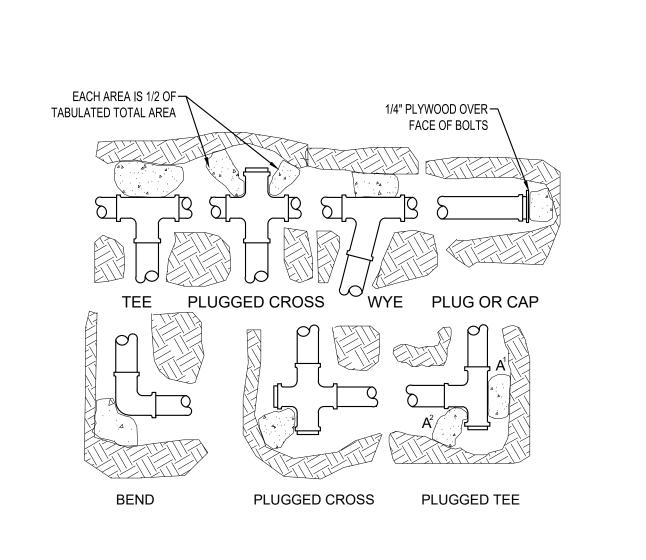
PROJECT GENERAL NOTES

WRITTEN DIMENSIONS TAKE PRECEDENCE OVER SCALED 9. THE CONTRACTOR IS TO CONTACT "DIGGER'S HOTLINE"

DISCREPANCIES OR CONDITIONS REQUIRING INFORMATION PRIOR TO ANY EXCAVATION / CONSTRUCTION (811 OR

2022 BY ISG.





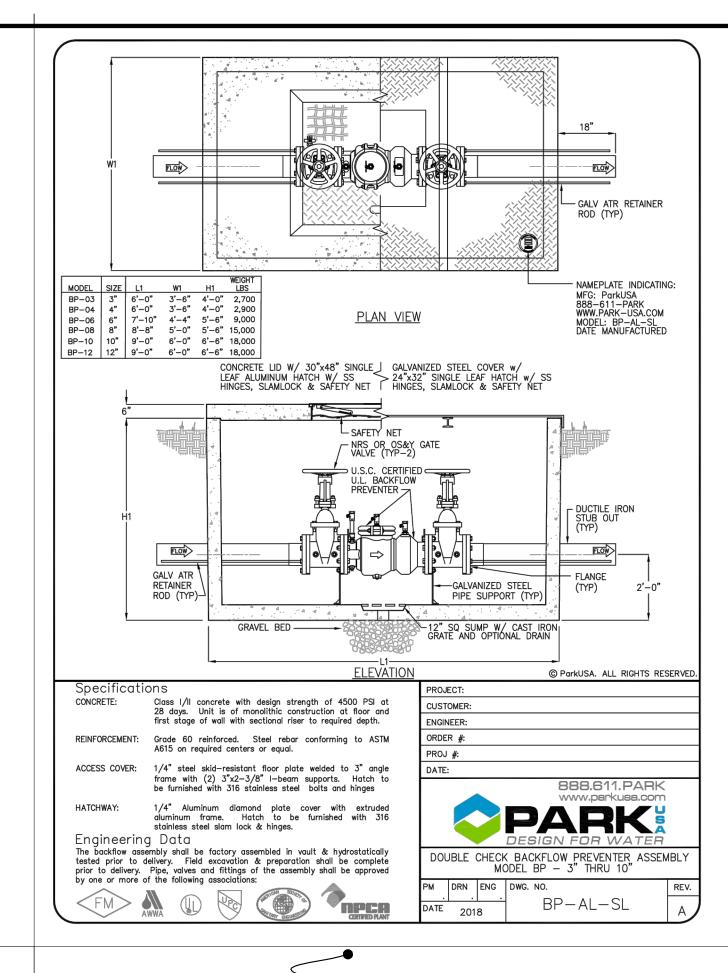
THRUST BLOCK BEARING (SF) TABLE										
NOMINAL FITTING SIZE	TEE,WYE PLUG OR CAP	90 BEND PLUGGED CROSS	TEE PLUGGED ON RUN		45° BEND	22 ½° BEND	11 ½° BEND			
INCHES	CAP		A ¹	A ²						
4	1.0	1.4	1.9	1.4	1.0					
6	2.1	3.0	4.3	3.0	1.6	1.0				
8	3.8	5.3	7.6	5.4	2.9	1.5	1.0			
10	5.9	8.4	11.8	8.4	4.6	2.6	1.2			
12	8.5	12.0	17.0	12.0	6.6	3.4	1.7			
14	11.5	16.3	23.0	16.3	8.9	4.6	2.3			
16	15.0	21.3	30.0	21.3	11.6	6.0	3.0			
18	19.0	27.0	38.0	27.0	14.6	7.6	3.8			
20	23.5	33.3	47.0	33.3	18.1	9.4	4.7			
24	34.0	48.0	68.0	48.0	26.2	13.6	6.8			

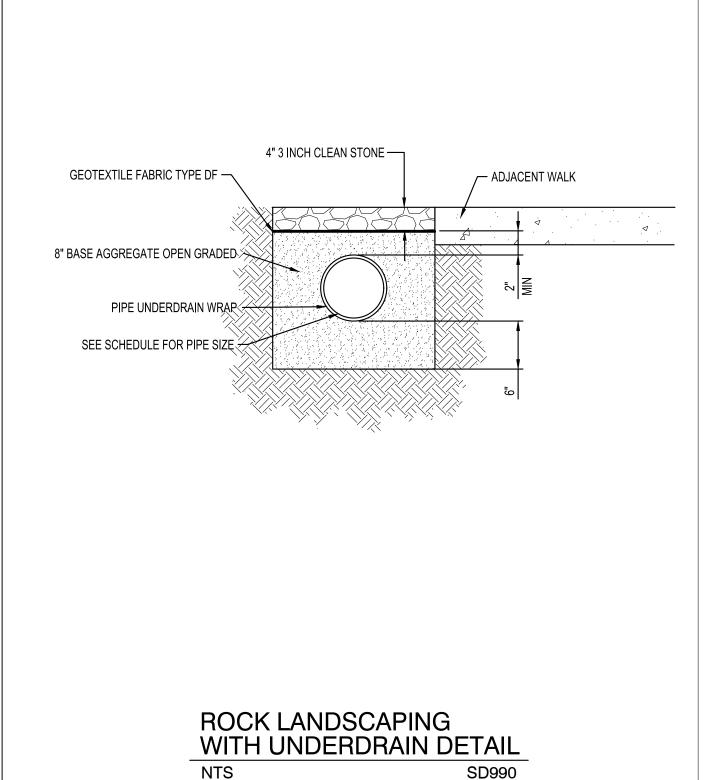
NOTES

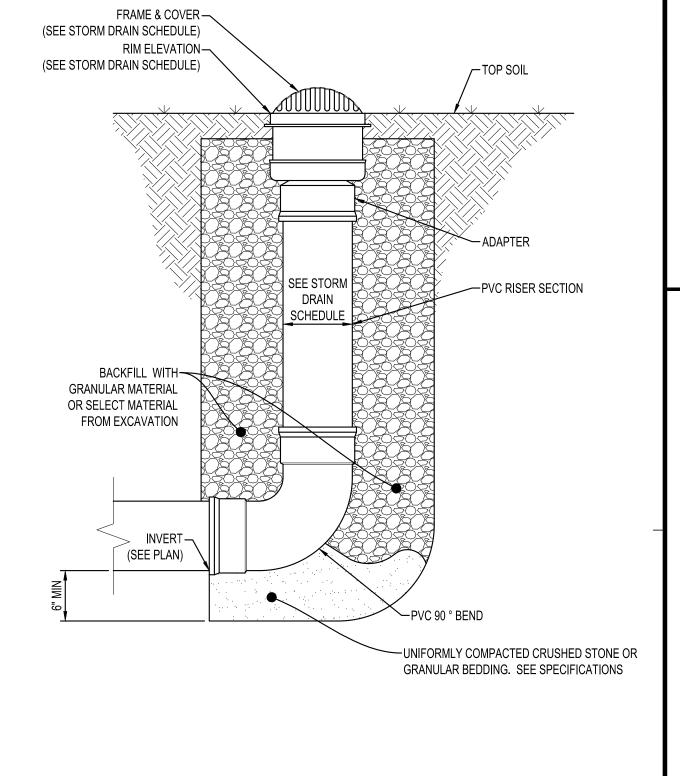
- 1. CONCRETE THRUST BLOCKING TO BE POURED AGAINST UNDISTURBED EARTH
- 2. KEEP CONCRETE CLEAR OF JOINT AND ACCESSORIES
- 3. IF NOT SHOWN ON PLANS, REQUIRED BEARING AREAS AT FITTING SHALL BE AS INDICATED ABOVE, ADJUST IF NECESSARY, TO CONFORM TO THE TEST PRESSURE(S) AND ALLOWABLE SOIL BEARING STRESS (ES)
- 4. BEARING AREAS AND SPECIAL BLOCKING DETAILS SHOWN ON PLANS TAKE PRECEDENCE OVER BEARING AREAS AND BLOCKING DETAILS SHOWN ON THIS STANDARD DETAIL
- 5. ABOVE BEARING AREAS BASED ON TEST PRESSURE OF 150 PSI AND AN ALLOWABLE SOIL BEARING STRESS OF 2000 LBS PER SQ/FT. TO COMPUTE BEARING AREAS FOR DIFFERENT TEST PRESSURES AND SOIL BEARING USE THE FOLLOWING EQUATION: BEARING AREA=TEST PRESSURE/150x12000/SOIL BEARING STRESS x TABLE VALUE

WATERMAIN
THRUST BLOCKING
NTS

EXP JOINT WITH CAULK









INLINE DRAIN
NTS

CONTRACTOR TO FURNISH AND
INSTALL A HIGH-VISIBILITY HYDRANT

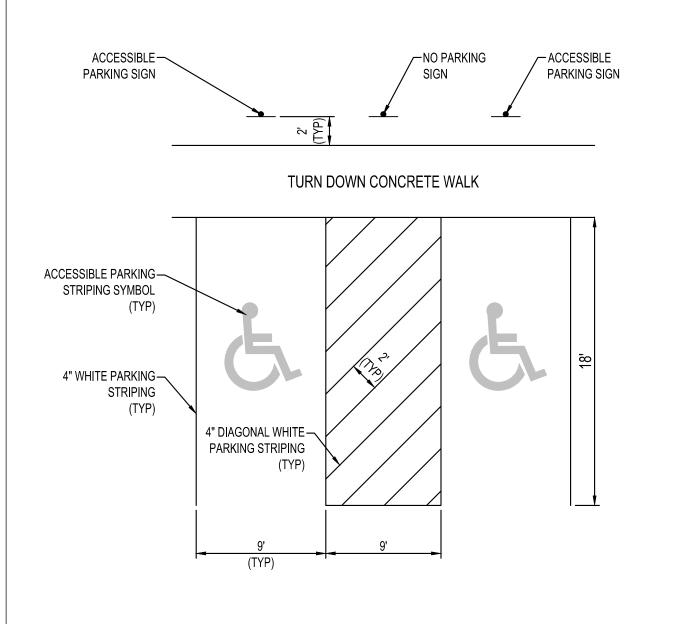
#4 REBAR @ 12" OCEW — 2" MIN COVER `—1-1/2"Ø STEEL ½" RECESSED FOAM ─ RAILING AND SUPPORTS EXP JOINT WITH CAULK -EXTEND STEEL SUPPORTS 8" MINIMUM INTO CONCRETE CONCRETE PAVEMENT SEE DETAIL AGGREGATE BASE (HATCH, TYP) SUBGRADE COMPACTED TO 100% — STANDARD PROCTOR DENSITY 12" x 12" x 12" THICKENED CONRETE FOOTING AT 12" SLIP DOWELS-POST LOCATIONS (TYP) └─½" RECESSED FOAM

NOTES:

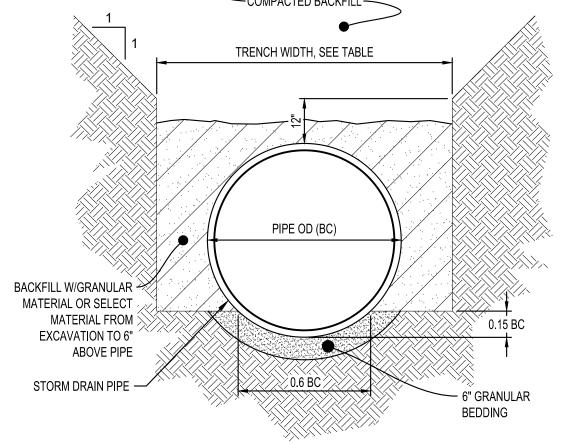
ALL COMPONENTS OF RAILING AND SUPPORTS SHALL BE SHOP PRIMED AND POWDER COATED. COORDINATE COLOR WITH OWNER.

CONCRETE STAIR WITH RAILING

NTS



ACCESSIBLE PARKING AREA	
NTS	

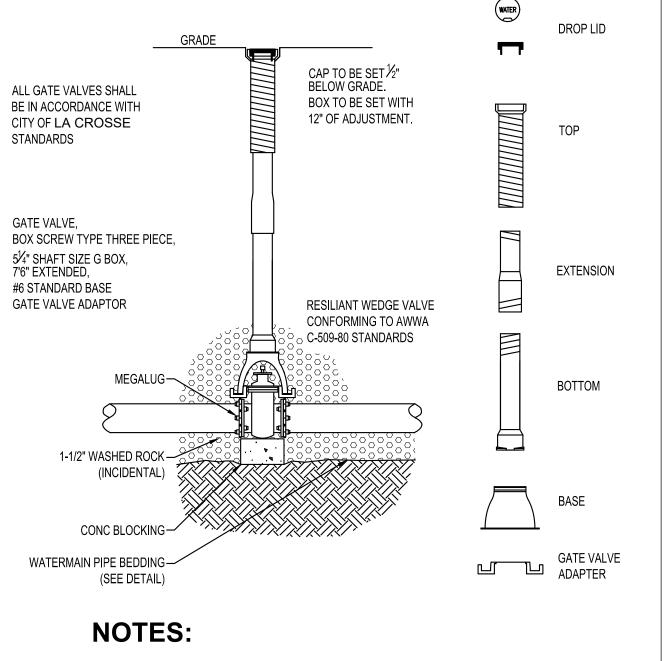


TRENCH WIDTH					
PIPE Ø	TRENCH WIDTH				
36" OR LESS	BC + 24"				
42" TO 54"	1.5 x BC				
60" OR OVER	BC + 36"				

NOTES:

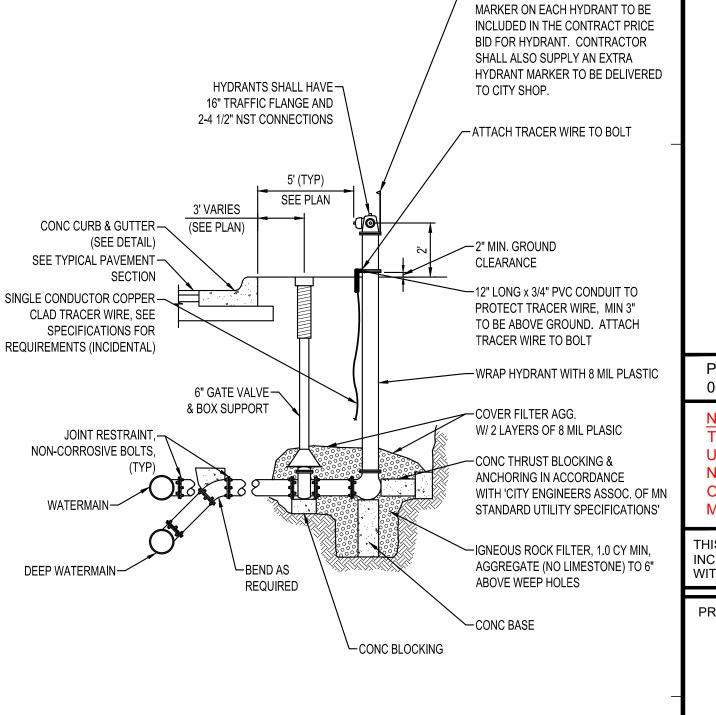
GRANULAR BEDDING AND BACKFILL FOR STORM DRAIN PIPES SHALL BE INCIDENTAL TO STORM DRAIN CONSTRUCTION

NON-CONCRETE STORM DRAIN PIPE BEDDING



INSTALL TOP NUT EXTENDER TO 7' DEPTH ON ALL VALVES WITH OVER-DEPTH

TYPICAL
GATE VALVE & BOX INSTALLATION
NTS



TYPICAL

HYDRANT INSTALLATION

PDD SPECIFIC PLAN SUBMITTAL 06/03/2022

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PROJECT

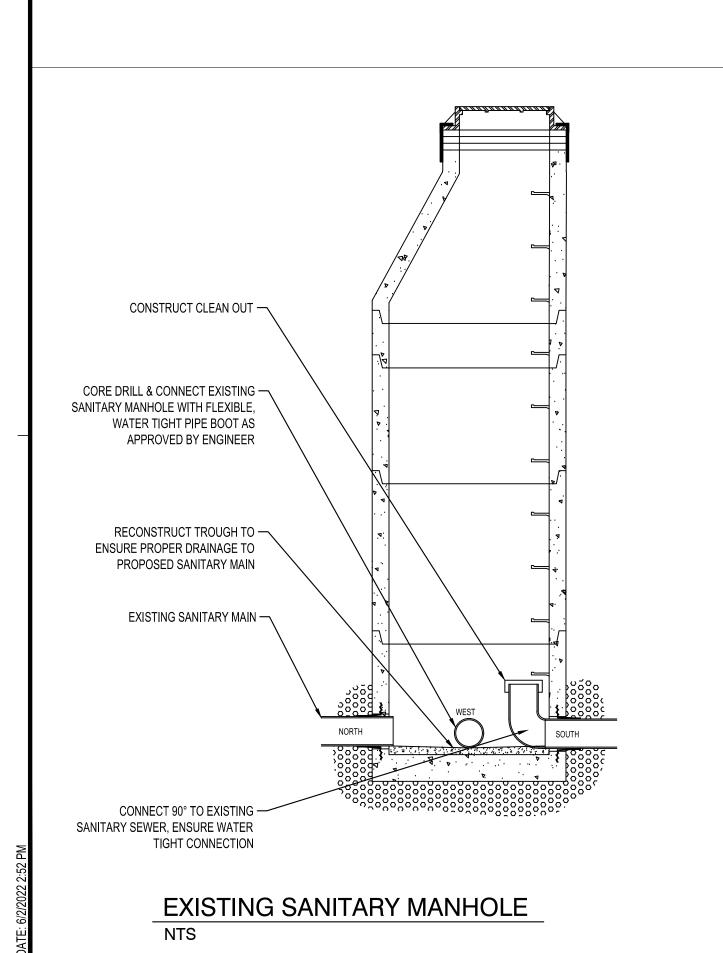
COPPER ROCKS

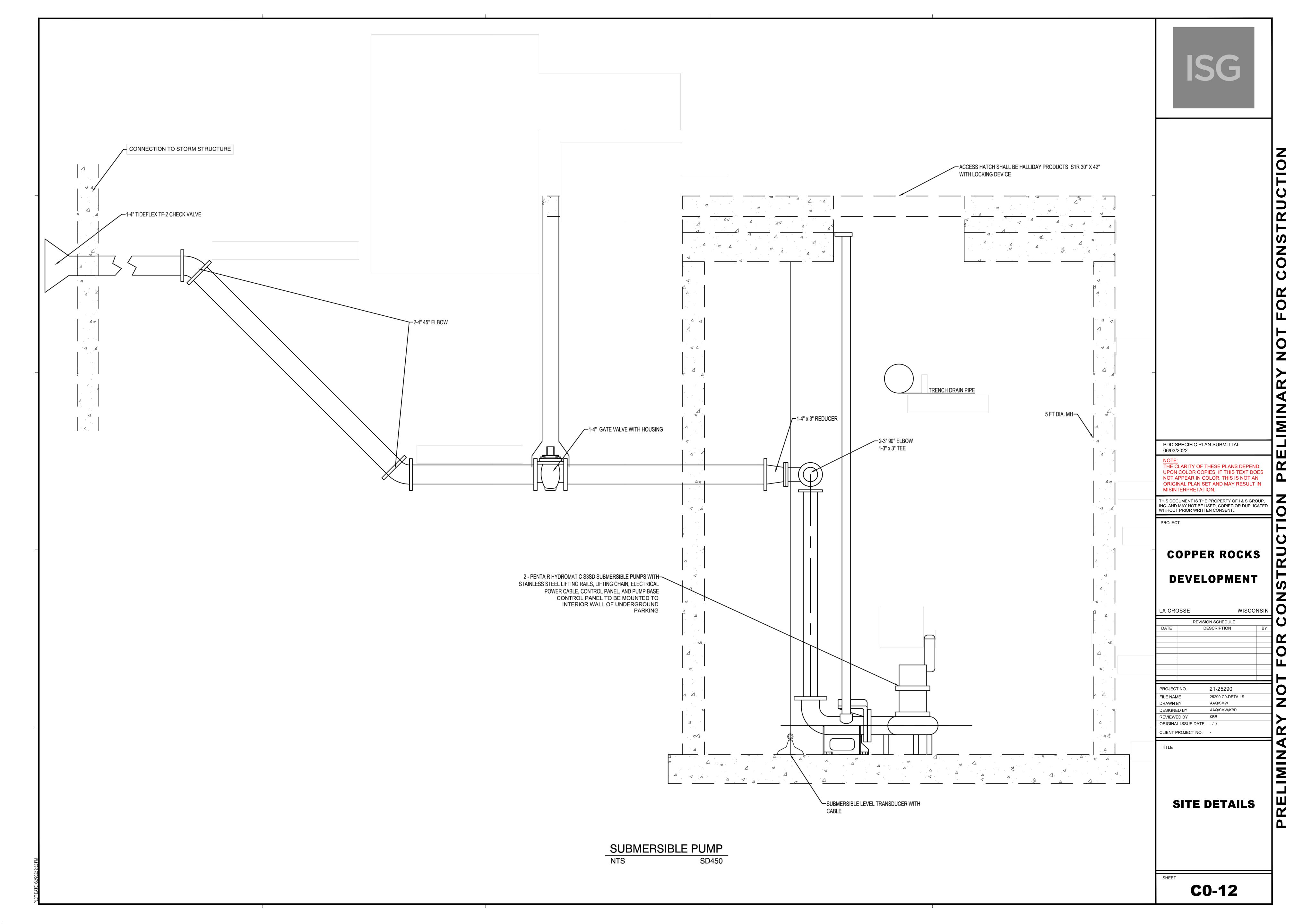
DEVELOPMENT

LA CROSSE WISCONSIN **REVISION SCHEDULE** DATE DESCRIPTION PROJECT NO. 21-25290 25290 C0-DETAILS FILE NAME AAQ/SMW DRAWN BY DESIGNED BY AAQ/SMW/KBR **REVIEWED BY** KBR ORIGINAL ISSUE DATE --/--/--CLIENT PROJECT NO. TITLE

SITE DETAILS

C0-11









MC-4500 STORMTECH CHAMBER SPECIFICATIONS

CHAMBERS SHALL BE STORMTECH MC-4500.

OR YELLOW COLORS.

- 2. CHAMBERS SHALL BE ARCH-SHAPED AND SHALL BE MANUFACTURED FROM VIRGIN, IMPACT-MODIFIED
- CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2418-16a, "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS" CHAMBER
- 4. CHAMBER ROWS SHALL PROVIDE CONTINUOUS, UNOBSTRUCTED INTERNAL SPACE WITH NO INTERNAL SUPPORTS THAT WOULD IMPEDE FLOW OR LIMIT ACCESS FOR INSPECTION.
- THE STRUCTURAL DESIGN OF THE CHAMBERS, THE STRUCTURAL BACKFILL, AND THE INSTALLATION REQUIREMENTS SHALL ENSURE THAT THE LOAD FACTORS SPECIFIED IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, SECTION 12.12, ARE MET FOR: 1) LONG-DURATION DEAD LOADS AND 2) SHORT-DURATION LIVE LOADS, BASED ON THE AASHTO DESIGN TRUCK WITH CONSIDERATION FOR IMPACT
- CHAMBERS SHALL BE DESIGNED, TESTED AND ALLOWABLE LOAD CONFIGURATIONS DETERMINED IN ACCORDANCE WITH ASTM F2787, "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS". LOAD CONFIGURATIONS SHALL INCLUDE: 1) INSTANTANEOUS (<1 MIN) AASHTO DESIGN TRUCK LIVE LOAD ON MINIMUM COVER 2) MAXIMUM PERMANENT (75-YR) COVER LOAD AND 3) ALLOWABLE COVER WITH PARKED (1-WEEK) AASHTO DESIGN
- REQUIREMENTS FOR HANDLING AND INSTALLATION: TO MAINTAIN THE WIDTH OF CHAMBERS DURING SHIPPING AND HANDLING, CHAMBERS SHALL HAVE INTEGRAL, INTERLOCKING STACKING LUGS.
- TO ENSURE A SECURE JOINT DURING INSTALLATION AND BACKFILL, THE HEIGHT OF THE CHAMBER JOINT SHALL NOT BE LESS THAN 3". . TO ENSURE THE INTEGRITY OF THE ARCH SHAPE DURING INSTALLATION, a) THE ARCH STIFFNESS CONSTANT AS DEFINED IN SECTION 6.2.8 OF ASTM F2418 SHALL BE GREATER THAN OR EQUAL TO 500 LBS/IN/IN. AND b) TO RESIST CHAMBER DEFORMATION DURING INSTALLATION AT ELEVATED
- ONLY CHAMBERS THAT ARE APPROVED BY THE SITE DESIGN ENGINEER WILL BE ALLOWED. UPON REQUEST BY THE SITE DESIGN ENGINEER OR OWNER, THE CHAMBER MANUFACTURER SHALL SUBMIT A STRUCTURAL EVALUATION FOR APPROVAL BEFORE DELIVERING CHAMBERS TO THE PROJECT SITE AS
- THE STRUCTURAL EVALUATION SHALL BE SEALED BY A REGISTERED PROFESSIONAL ENGINEER. THE STRUCTURAL EVALUATION SHALL DEMONSTRATE THAT THE SAFETY FACTORS ARE GREATER THAN OR EQUAL TO 1.95 FOR DEAD LOAD AND 1.75 FOR LIVE LOAD, THE MINIMUM REQUIRED BY ASTM F2787 AND BY SECTIONS 3 AND 12.12 OF THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS

TEMPERATURES (ABOVE 73° F / 23° C), CHAMBERS SHALL BE PRODUCED FROM REFLECTIVE GOLD

- FOR THERMOPLASTIC PIPE. THE TEST DERIVED CREEP MODULUS AS SPECIFIED IN ASTM F2418 SHALL BE USED FOR PERMANENT. DEAD LOAD DESIGN EXCEPT THAT IT SHALL BE THE 75-YEAR MODULUS USED FOR DESIGN.
- 9. CHAMBERS AND END CAPS SHALL BE PRODUCED AT AN ISO 9001 CERTIFIED MANUFACTURING FACILITY.

MPORTANT - NOTES FOR THE BIDDING AND INSTALLATION OF MC-4500

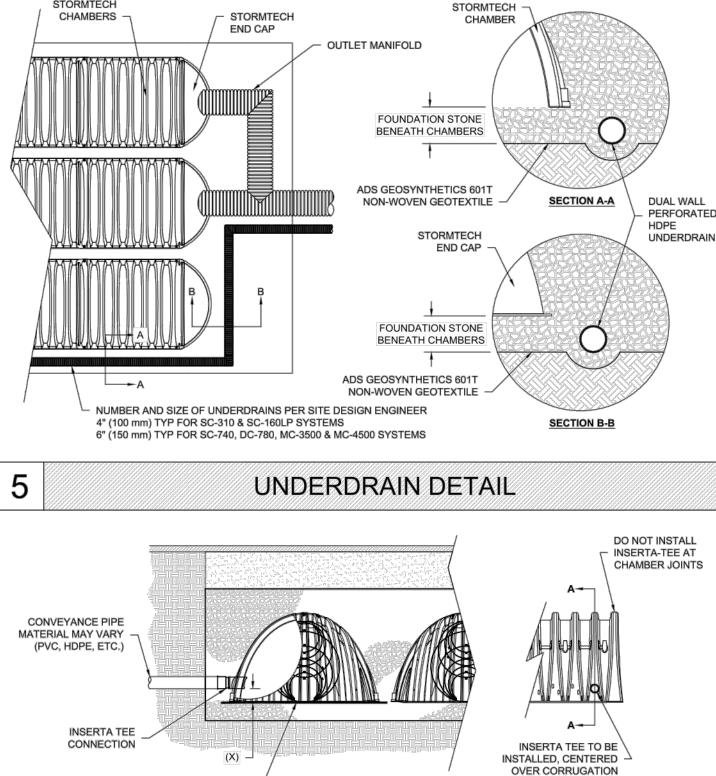
- STORMTECH MC-4500 CHAMBERS SHALL NOT BE INSTALLED UNTIL THE MANUFACTURER'S REPRESENTATIVE HAS COMPLETED A PRE-CONSTRUCTION MEETING WITH THE INSTALLERS.
- STORMTECH MC-4500 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH MC-3500/MC-4500 CONSTRUCTION GUIDE".
- CHAMBERS ARE NOT TO BE BACKFILLED WITH A DOZER OR EXCAVATOR SITUATED OVER THE CHAMBERS. STORMTECH RECOMMENDS 3 BACKFILL METHODS: STONESHOOTER LOCATED OFF THE CHAMBER BED
- BACKFILL AS ROWS ARE BUILT USING AN EXCAVATOR ON THE FOUNDATION STONE OR SUBGRADE. BACKFILL FROM OUTSIDE THE EXCAVATION USING A LONG BOOM HOE OR EXCAVATOR. THE FOUNDATION STONE SHALL BE LEVELED AND COMPACTED PRIOR TO PLACING CHAMBERS.
- 5. JOINTS BETWEEN CHAMBERS SHALL BE PROPERLY SEATED PRIOR TO PLACING STONE.
- 6. MAINTAIN MINIMUM 9" (230 mm) SPACING BETWEEN THE CHAMBER ROWS.
- 7. INLET AND OUTLET MANIFOLDS MUST BE INSERTED A MINIMUM OF 12" (300 mm) INTO CHAMBER END CAPS.
- 8. EMBEDMENT STONE SURROUNDING CHAMBERS MUST BE A CLEAN, CRUSHED, ANGULAR STONE MEETING THE AASHTO M43 DESIGNATION OF #3 OR #4.
- STONE SHALL BE BROUGHT UP EVENLY AROUND CHAMBERS SO AS NOT TO DISTORT THE CHAMBER SHAPE. STONE DEPTHS SHOULD NEVER DIFFER BY MORE THAN 12" (300 mm) BETWEEN ADJACENT
- 10. STONE MUST BE PLACED ON THE TOP CENTER OF THE CHAMBER TO ANCHOR THE CHAMBERS IN PLACE AND PRESERVE ROW SPACING. 11. THE CONTRACTOR MUST REPORT ANY DISCREPANCIES WITH CHAMBER FOUNDATION MATERIAL BEARING
- CAPACITIES TO THE SITE DESIGN ENGINEER
- 2. ADS RECOMMENDS THE USE OF "FLEXSTORM CATCH IT" INSERTS DURING CONSTRUCTION FOR ALL INLETS TO PROTECT THE SUBSURFACE STORMWATER MANAGEMENT SYSTEM FROM CONSTRUCTION SITE

NOTES FOR CONSTRUCTION EQUIPMENT

- STORMTECH MC-4500 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH MC-3500/MC-4500 CONSTRUCTION GUIDE".
- THE USE OF EQUIPMENT OVER MC-4500 CHAMBERS IS LIMITED:
- NO EQUIPMENT IS ALLOWED ON BARE CHAMBERS NO RUBBER TIRED LOADER, DUMP TRUCK, OR EXCAVATORS ARE ALLOWED UNTIL PROPER FILL. DEPTHS ARE REACHED IN ACCORDANCE WITH THE "STORMTECH MC-3500/MC-4500 CONSTRUCTION
- WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT CAN BE FOUND IN THE "STORMTECH MC-3500/MC-4500 CONSTRUCTION GUIDE".
- FULL 36" (900 mm) OF STABILIZED COVER MATERIALS OVER THE CHAMBERS IS REQUIRED FOR DUMP TRUCK TRAVEL OR DUMPING.

USE OF A DOZER TO PUSH EMBEDMENT STONE BETWEEN THE ROWS OF CHAMBERS MAY CAUSE DAMAGE TO CHAMBERS AND IS NOT AN ACCEPTABLE BACKFILL METHOD. ANY CHAMBERS DAMAGED BY USING THE "DUMP AND PUSH" METHOD ARE NOT COVERED UNDER THE STORMTECH STANDARD WARRANTY.

CONTACT STORMTECH AT 1-888-892-2694 WITH ANY QUESTIONS ON INSTALLATION REQUIREMENTS OR WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT.



SECTION A-A

MC-4500

INSERTA-TEE SIDE INLET DETAIL

MAX DIAMETER OF

INSERTA TEE

6" (150 mm)

10" (250 mm)

10" (250 mm)

12" (300 mm)

12" (300 mm)

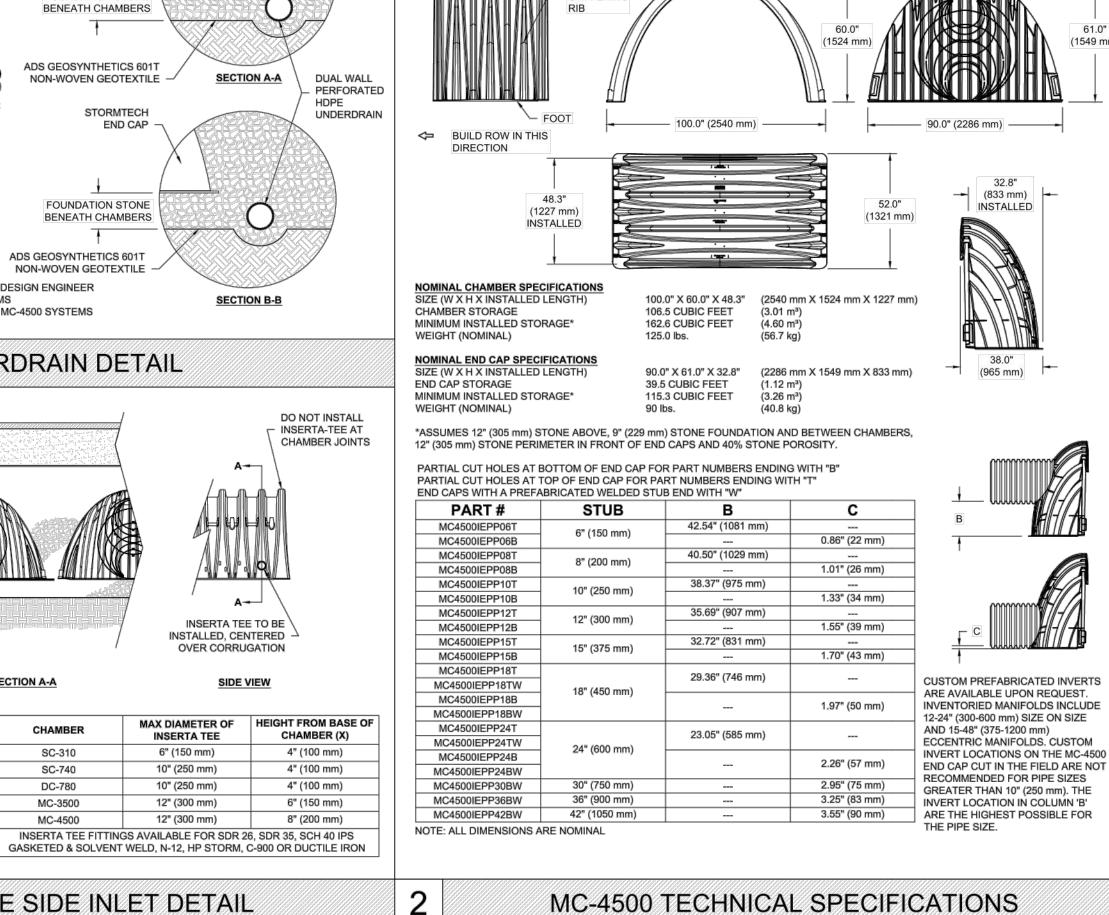
INSERTA TEE FITTINGS AVAILABLE FOR SDR 26, SDR 35, SCH 40 IPS

4" (100 mm)

4" (100 mm)

4" (100 mm)

6" (150 mm)



STIFFENING RIB /

- UPPER JOINT

STIFFENING

CORRUGATION

LOWER JOINT

CORRUGATION /

ACCEPTABLE FILL MATERIALS: STORMTECH MC-4500 CHAMBER SYSTEMS **INSPECTION & MAINTENANCE** INSPECT ISOLATOR ROW PLUS FOR SEDIMENT A. INSPECTION PORTS (IF PRESENT) AASHTO MATERIAL MATERIAL LOCATION DESCRIPTION REMOVE/OPEN LID ON NYLOPLAST INLINE DRAIN CLASSIFICATIONS REMOVE AND CLEAN FLEXSTORM FILTER IF INSTALLED USING A FLASHLIGHT AND STADIA ROD, MEASURE DEPTH OF SEDIMENT AND RECORD ON FINAL FILL: FILL MATERIAL FOR LAYER 'D' STARTS FROM THE ANY SOIL/ROCK MATERIALS, NATIVE SOILS, OR PER ENGINEER'S PLANS. TOP OF THE 'C' LAYER TO THE BOTTOM OF FLEXIBLE A.4. LOWER A CAMERA INTO ISOLATOR ROW PLUS FOR VISUAL INSPECTION OF SEDIMENT LEVELS CHECK PLANS FOR PAVEMENT SUBGRADE REQUIREMENTS. PAVEMENT OR UNPAVED FINISHED GRADE ABOVE, NOTE THAT - OPTIONAL INSPECTION PORT PAVEMENT SUBBASE MAY BE PART OF THE 'D' LAYER A.5. IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3. B. ALL ISOLATOR PLUS ROWS RANULAR WELL-GRADED SOIL/AGGREGATE MIXTURES, <35% FINES OR A-1, A-2-4, A-3 REMOVE COVER FROM STRUCTURE AT UPSTREAM END OF ISOLATOR ROW PLUS INITIAL FILL: FILL MATERIAL FOR LAYER 'C' STARTS FROM THE USING A FLASHLIGHT, INSPECT DOWN THE ISOLATOR ROW PLUS THROUGH OUTLET PIPE PROCESSED AGGREGATE. TOP OF THE EMBEDMENT STONE ('B' LAYER) TO 24" (600 mm) MIRRORS ON POLES OR CAMERAS MAY BE USED TO AVOID A CONFINED SPACE ENTRY ABOVE THE TOP OF THE CHAMBER. NOTE THAT PAVEMENT MOST PAVEMENT SUBBASE MATERIALS CAN BE USED IN LIEU OF THIS i) FOLLOW OSHA REGULATIONS FOR CONFINED SPACE ENTRY IF ENTERING MANHOLE SUBBASE MAY BE A PART OF THE 'C' LAYER. AASHTO M431 IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3. 3, 357, 4, 467, 5, 56, 57, 6, 67, 68, 7, 78, 8, 89, 9, 10 STEP 2) CLEAN OUT ISOLATOR ROW PLUS USING THE JETVAC PROCESS MBEDMENT STONE: FILL SURROUNDING THE CHAMBERS AASHTO M431 A. A FIXED CULVERT CLEANING NOZZLE WITH REAR FACING SPREAD OF 45" (1.1 m) OR MORE IS CLEAN, CRUSHED, ANGULAR STONE FROM THE FOUNDATION STONE ('A' LAYER) TO THE 'C' LAYER 3, 4 APPLY MULTIPLE PASSES OF JETVAC UNTIL BACKFLUSH WATER IS CLEAN C. VACUUM STRUCTURE SUMP AS REQUIRED FOUNDATION STONE: FILL BELOW CHAMBERS FROM THE AASHTO M431 CLEAN, CRUSHED, ANGULAR STONE SUBGRADE UP TO THE FOOT (BOTTOM) OF THE CHAMBER. 3, 4 STEP 3) REPLACE ALL COVERS, GRATES, FILTERS, AND LIDS; RECORD OBSERVATIONS AND ACTIONS. SUMP DEPTH TBD BY STEP 4) INSPECT AND CLEAN BASINS AND MANHOLES UPSTREAM OF THE STORMTECH SYSTEM. SITE DESIGN ENGINEER THE LISTED AASHTO DESIGNATIONS ARE FOR GRADATIONS ONLY. THE STONE MUST ALSO BE CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR NO. 4 (AASHTO M43) STONE" 24" [600 mm] MIN RECOMMENDED) STORMTECH COMPACTION REQUIREMENTS ARE MET FOR 'A' LOCATION MATERIALS WHEN PLACED AND COMPACTED IN 9" (230 mm) (MAX) LIFTS USING TWO FULL COVERAGES WITH A VIBRATORY COMPACTOR.

. WHERE INFILTRATION SURFACES MAY BE COMPROMISED BY COMPACTION, FOR STANDARD DESIGN LOAD CONDITIONS, A FLAT SURFACE MAY BE ACHIEVED BY RAKING OR DRAGGING WITHOUT COMPACTION EQUIPMENT. FOR SPECIAL LOAD DESIGNS, CONTACT STORMTECH FOR ONCE LAYER 'C' IS PLACED, ANY SOIL/MATERIAL CAN BE PLACED IN LAYER 'D' UP TO THE FINISHED GRADE. MOST PAVEMENT SUBBASE SOILS CAN BE USED TO REPLACE THE MATERIAL REQUIREMENTS OF LAYER 'C' OR 'D' AT THE SITE DESIGN ENGINEER'S DISCRETION. INSPECT EVERY 6 MONTHS DURING THE FIRST YEAR OF OPERATION. ADJUST THE INSPECTION INTERVAL. BASED ON PREVIOUS OBSERVATIONS OF SEDIMENT ACCUMULATION AND HIGH WATER ELEVATIONS. 2. CONDUCT JETTING AND VACTORING ANNUALLY OR WHEN INSPECTION SHOWS THAT MAINTENANCE IS ADS GEOSYNTHETICS 601T NON-WOVEN GEOTEXTILE ALL AROUND PAVEMENT LAYER (DESIGNED CLEAN, CRUSHED, ANGULAR STONE IN A & B LAYERS BY SITE DESIGN ENGINEER) TOP OF STONE=661.50 -*TO BOTTOM OF FLEXIBLE PAVEMENT. FOR UNPAVED INSTALLATIONS WHERE RUTTING FROM VEHICLES MAY OCCUR, INCREASE COVER TO 30* (750 mm). MC-4500 ISOLATOR ROW PLUS DETAIL PERIMETER STONE (600 mm) MIN* MAX (SEE NOTE 4) 12" (300 mm) MIN TOP OF CHAMBERS=660.50 -STORMTECH END CAP - 12" (300 mm) MIN WIDTH CONCRETE COLLAR NOT REQUIRED **THIS CROSS SECTION DETAIL REPRESENTS EXCAVATION WALL 12" (300 mm) MINIMUM REQUIREMENTS FOR INSTALLATION. FOR UNPAVED APPLICATIONS (CAN BE SLOPED OR VERTICAL) MIN SEPARATION PLEASE SEE THE LAYOUT SHEET(S) FOR PROJECT SPECIFIC REQUIREMENTS. 8" NYLOPLAST INSPECTION PORT 12" (300 mm) MIN INSERTION -BODY (PART# 2708AG4IPKIT) OR TRAFFIC RATED BOX W/SOLID BOTTOM OF CHAMBERS=665.50 —— LOCKING COVER DEPTH OF STONE TO BE DETERMINED BY SITE DESIGN ENGINEER 9" (230 mm) MIN MANIFOLD STUB · 12" (300 mm) MIN --SDR 35 PIPE MANIFOLD HEADER SUBGRADE SOILS " (100 mm) INSERTA TEE BOTTOM OF STONE=654.50 — TO BE CENTERED ON CORRUGATION VALLEY

PLACE ADSPLUS WOVEN GEOTEXTILE

PART NUMBERS WILL VARY BASED ON INLET PIPE MATERIALS.

CONTACT STORMTECH FOR MORE INFORMATION.

(CENTERED ON INSERTA-TEE INLET) OVER

AT SIDE INLET CONNECTIONS, GEOTEXTILE

MUST EXTEND 6" (150 mm) PAST CHAMBER

CONCRETE COLLAR · PAVEMENT CONCRETE SLAB 6" (150 mm) MIN THICKNESS STORMTECH CHAMBER 12" (300 mm) MIN SEPARATION MIN INSERTION INSPECTION PORTS MAY BE CONNECTED THROUGH ANY CHAMBER CORRUGATION VALLEY.

4" PVC INSPECTION PORT DETAIL

(MC SERIES CHAMBER)

MANIFOLD HEADER MANIFOLD STUB

> NOTE: MANIFOLD STUB MUST BE LAID HORIZONTAL FOR A PROPER FIT IN END CAP OPENING.

MC-SERIES END CAP INSERTION DETAIL

- CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2418-16a, "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS" CHAMBER CLASSIFICATION 60x101
- MC-4500 CHAMBERS SHALL BE DESIGNED IN ACCORDANCE WITH ASTM F2787 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS". . THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR ASSESSING THE BEARING RESISTANCE (ALLOWABLE BEARING CAPACITY) OF THE SUBGRADE SOILS AND THE DEPTH OF FOUNDATION STONE WITH CONSIDERATION
- FOR THE RANGE OF EXPECTED SOIL MOISTURE CONDITIONS. PERIMETER STONE MUST BE EXTENDED HORIZONTALLY TO THE EXCAVATION WALL FOR BOTH VERTICAL AND SLOPED EXCAVATION WALLS.
- 5. REQUIREMENTS FOR HANDLING AND INSTALLATION:
- TO MAINTAIN THE WIDTH OF CHAMBERS DURING SHIPPING AND HANDLING, CHAMBERS SHALL HAVE INTEGRAL, INTERLOCKING STACKING LUGS. TO ENSURE A SECURE JOINT DURING INSTALLATION AND BACKFILL, THE HEIGHT OF THE CHAMBER JOINT SHALL NOT BE LESS THAN 3".

MC-4500 CROSS SECTION DETAIL

AND b) TO RESIST CHAMBER DEFORMATION DURING INSTALLATION AT ELEVATED TEMPERATURES (ABOVE 73° F / 23° C), CHAMBERS SHALL BE PRODUCED FROM REFLECTIVE GOLD OR YELLOW COLORS.

COMPACTION / DENSITY REQUIREMENT

PREPARE PER SITE DESIGN ENGINEER'S PLANS. PAVED

INSTALLATIONS MAY HAVE STRINGENT MATERIAL AND

PREPARATION REQUIREMENTS.

BEGIN COMPACTIONS AFTER 24" (600 mm) OF MATERIAL OVER

THE CHAMBERS IS REACHED. COMPACT ADDITIONAL LAYERS IN

12" (300 mm) MAX LIFTS TO A MIN. 95% PROCTOR DENSITY FOR

PROCESSED AGGREGATE MATERIALS.

PLATE COMPACT OR ROLL TO ACHIEVE A FLAT SURFACE.^{2,3}

WELL GRADED MATERIAL AND 95% RELATIVE DENSITY FOR

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PROJECT

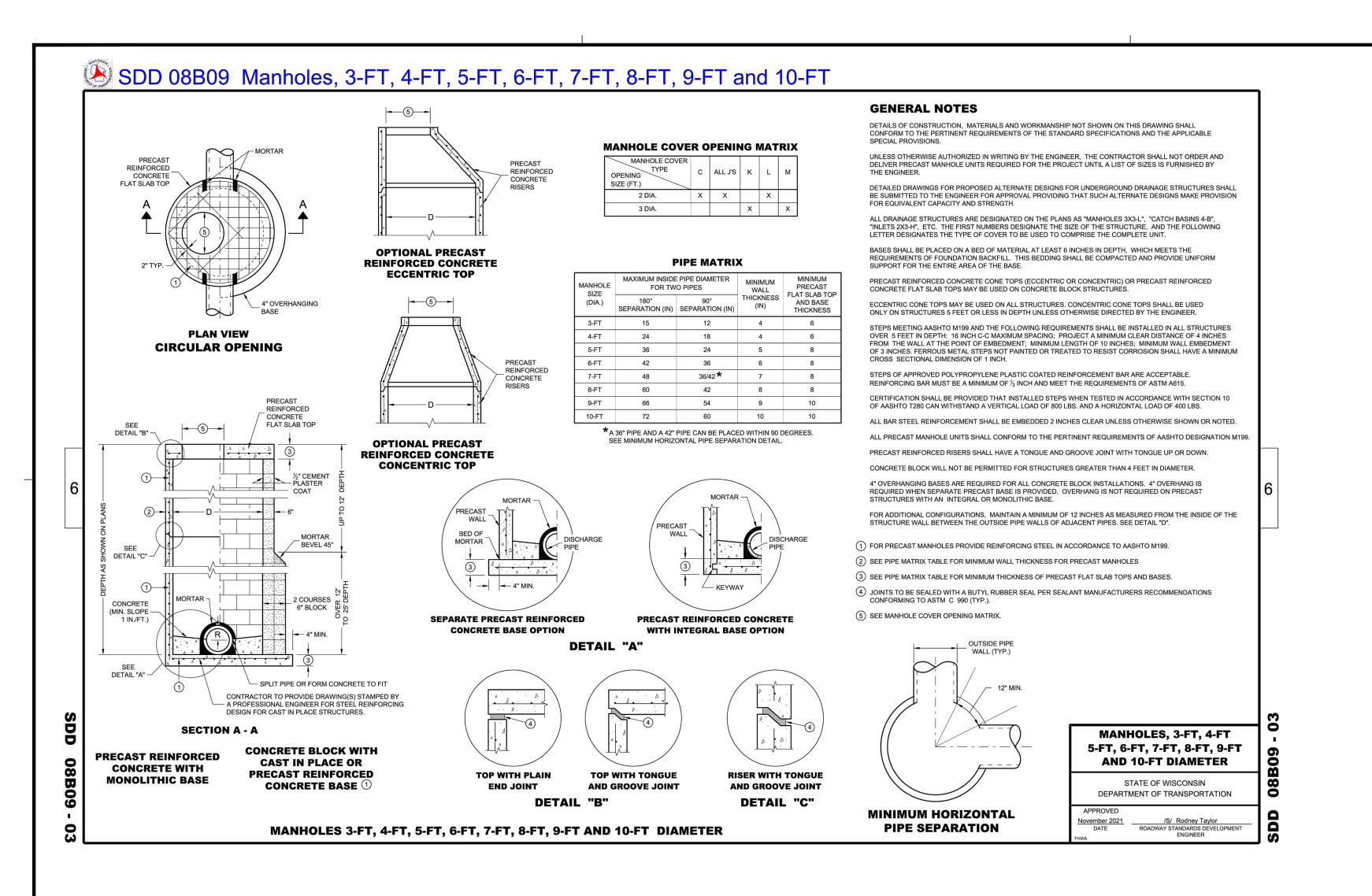
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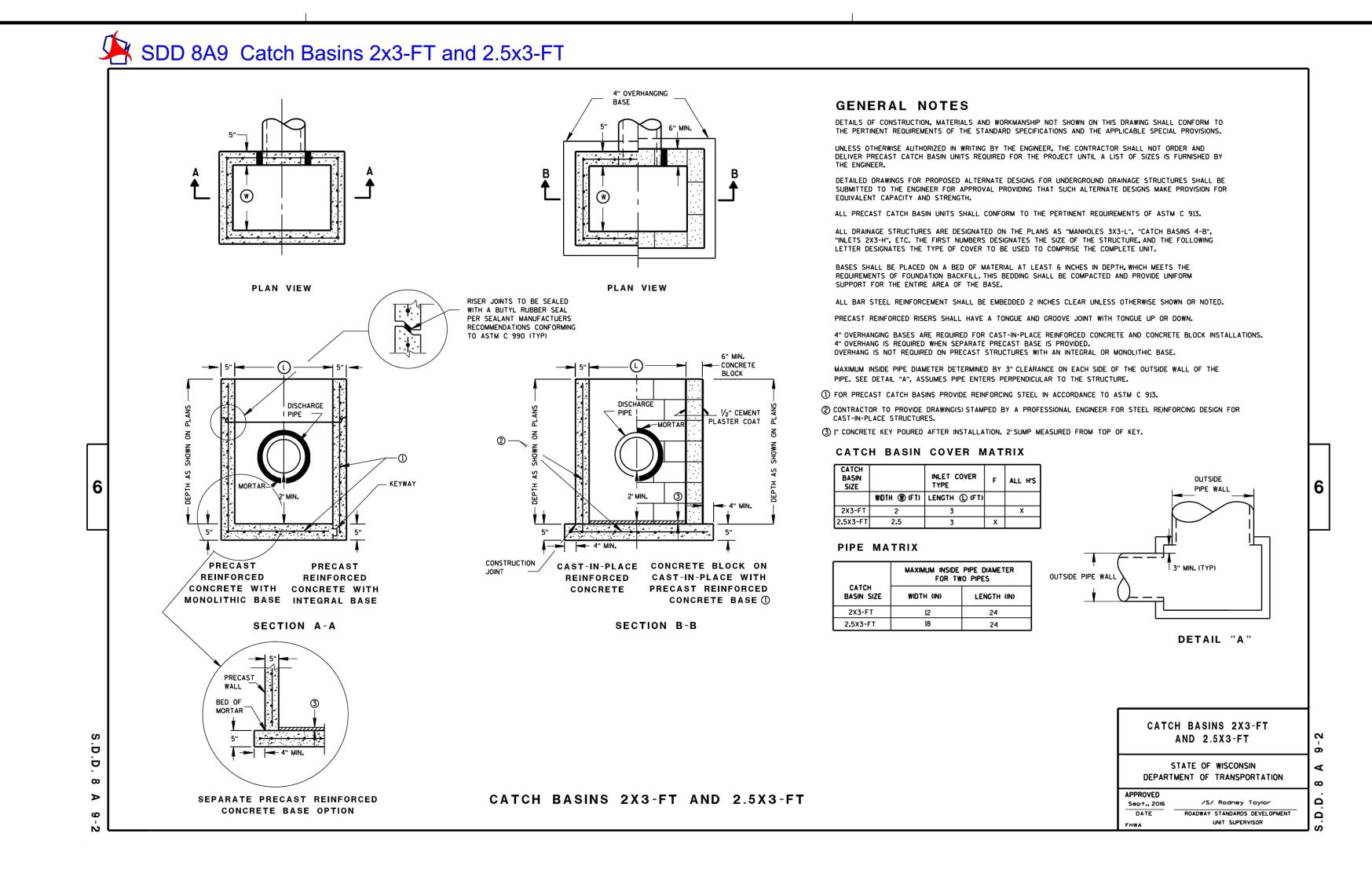
COPPER ROCKS DEVELOPMENT

LA CROSSE WISCONSIN REVISION SCHEDULI DESCRIPTION PROJECT NO. 21-25290 25290 C0-DETAILS FILE NAME PRAWN BY AAQ/SMW AAQ/SMW/KBR **DESIGNED BY** REVIEWED BY KBR ORIGINAL ISSUE DATE --/--/--CLIENT PROJECT NO. TITLE

SITE DETAILS

CO-13







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PROJECT

COPPER ROCKS

DEVELOPMENT

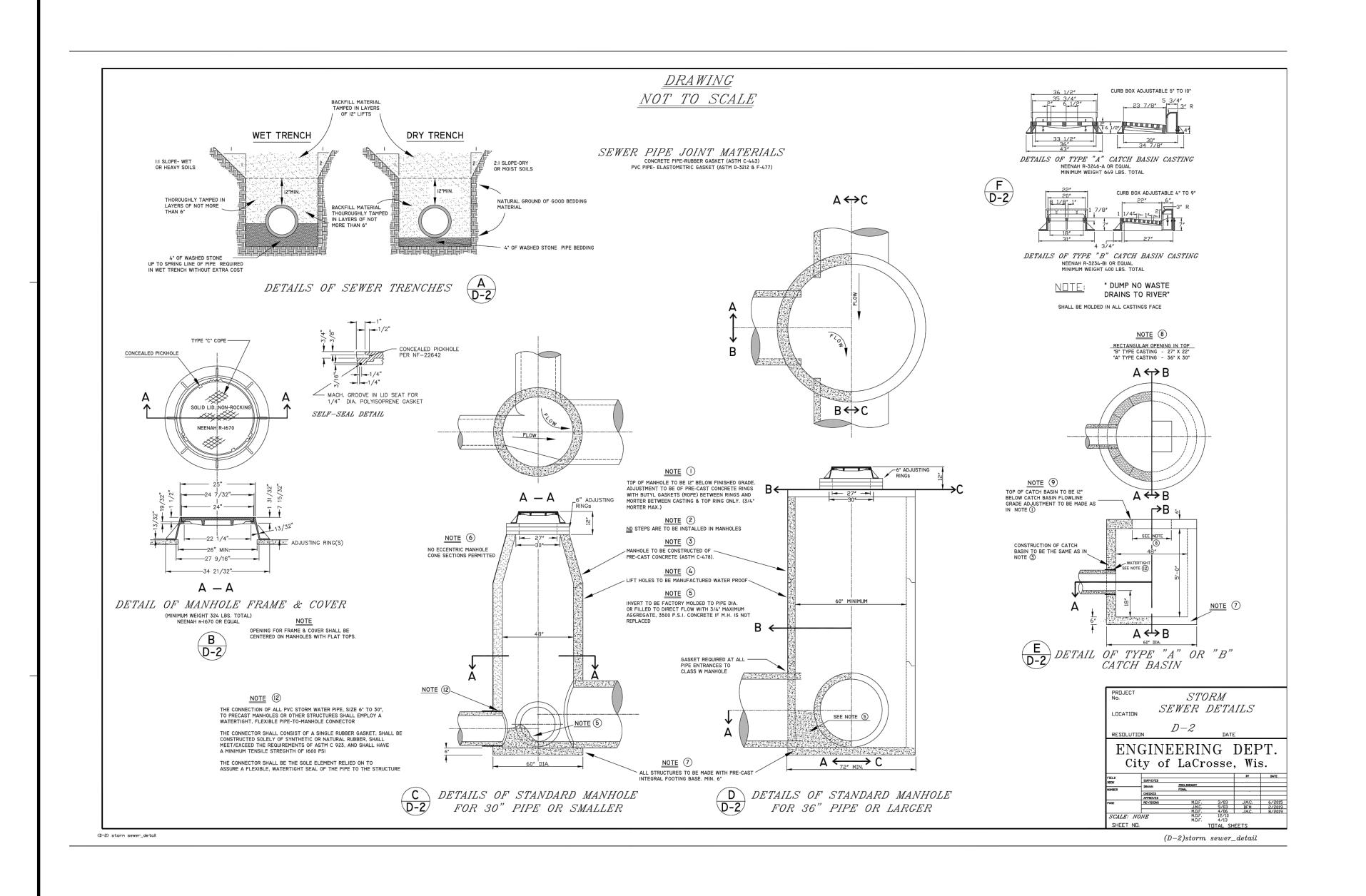
WISCONSIN LA CROSSE REVISION SCHEDULE DATE DESCRIPTION PROJECT NO. 21-25290 25290 C0-DETAILS FILE NAME AAQ/SMW DRAWN BY DESIGNED BY AAQ/SMW/KBR **REVIEWED BY** KBR ORIGINAL ISSUE DATE --/--/--CLIENT PROJECT NO.

TITLE

SITE DETAILS

SHEET

C0-14



	SANITARY SEWER PIPE SCHEDULE										
PIPE NO.	DRAIN FROM	INLET ELEVATION	DRAIN TO	OUTLET ELEVATION	PIPE SIZE	MATERIAL	PIPE CLASS	PIPE GRADE	PIPE LENGTH (FT)		
SP-1	S-1	646.65	EX S-1	646.03	8"	PVC	SDR-35	0.40%	155		
SP-2	S-2	647.16	S-1	646.75	8"	PVC	SDR-35	0.40%	103		
SP-2A	WEST TOWNHOMES	649.16	S-2	648.86	6"	PVC	SDR-26	1.00%	30		
SP-2B	45° BEND	648.08	S-2	648.02	8"	PVC	SDR-35	1.00%	7		
SP-2C	BUILDING 1	649.00	45° BEND	648.08	8"	PVC	SDR-35	1.00%	91		
SP-3	TEE	647.82	S-2	647.26	8"	PVC	SDR-35	0.40%	138		
SP-3A	MIDDLE TOWNHOMES	650.23	TEE	649.93	6"	PVC	SDR-26	1.00%	30		
SP-4	S-3	648.22	TEE	647.82	8"	PVC	SDR-35	0.40%	101		
SP-4A	45° BEND	655.32	S-3	655.13	8"	PVC	SDR-35	1.00%	19		
SP-4B	BUILDING 2	655.56	45° BEND	655.32	8"	PVC	SDR-35	1.00%	24		
SP-5	S-4	648.69	S-3	648.32	8"	PVC	SDR-35	0.40%	93		
SP-5A	EAST TOWNHOMES	651.36	S-4	651.06	6"	PVC	SDR-26	1.00%	30		
SP-6	S-5	649.60	S-4	648.79	8"	PVC	SDR-35	0.40%	202		
SP-7	BUILDING 3	650.50	S-5	649.70	8"	PVC	SDR-35	0.40%	200		

	SANITARY SEWER STRUCTURE SCHEDULE									
STRUCTURE NO.	STRUCTURE TYPE	STRUCTURE SIZE (IN)	STRUCTURE MATERIAL	CASTING	PAY HEIGHT (LN FT)	TOP OF CASTING ELEVATION	INVERT ELEVATION	OUTLET PIPE		
S-1	SANITARY MANHOLE	48 Ø	RC	NEENAH R-1670	17.11	663.76	646.65	SP-1		
S-3	SANITARY MANHOLE	48 Ø	RC	NEENAH R-1670	16.23	664.45	648.22	SP-4		
S-4	SANITARY MANHOLE	48 Ø	RC	NEENAH R-1670	16.19	664.88	648.69	SP-5		
S-5	SANITARY MANHOLE	48 Ø	RC	NEENAH R-1670	14.64	664.24	649.60	SP-6		
	1	ı	1	1	1		1		_	

		5	STORM DRAIN PI	PE SCHEI	DULE				
PIPE NO.	DRAIN FROM	INLET ELEVATION	DRAIN TO	OUTLET ELEVATION	PIPE SIZE (IN)	MATERIAL	PIPE CLASS	PIPE GRADE	PIPE LENGTH (FT)
P-1	ST-1	658.22	ST-2	656.99	18	RCP	CLASS III	0.50%	246
P-2	ST-2	656.99	ST-3	655.86	21	RCP	CLASS III	0.68%	164
P-3	ST-3	655.80	ST-27	655.55	21	RCP	CLASS III	0.92%	27
P-4	ST-4	658.49	ST-6	657.95	12	RCP	CLASS III	0.50%	109
P - 4A	ST-5	658.31	ST-6	657.97	12	RCP	CLASS III	0.50%	68
P-5	ST-6	657.96	ST-7	657.20	12	RCP	CLASS III	0.50%	153
P-6	ST-7	657.20	ST-8	656.39	15	RCP	CLASS III	0.50%	164
P-7	ST-11	657.74	TEE	657.55	12	RCP	CLASS III	0.50%	38
P-7A	TEE	657.55	ST-10	657.47	12	RCP	CLASS III	0.50%	17
P-8	ST-10	657.42	ST-8	656.82	15	RCP	CLASS III	0.50%	119
P-9	ST-12	656.77	ST-8	656.23	12	RCP	CLASS III	0.49%	108
P-10	ST-8	656.21	ST-13	655.71	24	RCP	CLASS III	0.50%	100
P-11	ST-13	655.81	ST-15	655.56	24	RCP	CLASS III	0.42%	61
P-11A	ST-15	655.56	ADS STORMTECH MC-4500	655.50	24	RCP	CLASS III	0.64%	9
P-11B	ST-14	656.01	ST-13	655.86	15	RCP	CLASS III	0.50%	30
P-12	ST-16	655.78	ST-15	655.63	12	RCP	CLASS III	0.50%	30
P-13	BOTTOM SOUTH RAMP TRENCH DRAIN	653.47	ST-9	654.32	4	PVC	FORCEMAIN	7.02%	12
P-14	ST-9	654.32	ST-10	657.57	4	PVC	FORCEMAIN	9.60%	34
P-15	NORTH RAMP TRENCH DRAIN	653.25	ST-19	653.25	4	PVC	FORCEMAIN	0.00%	7
P-16	ST-19	653.31	ST-26	657.00	4	PVC	FORCEMAIN	7.01%	53
P-17	TOP SOUTH RAMP TRENCH DRAIN	657.00	TEE	656.70	12	RCP	CLASS III	3.78%	8
P-18	ST-18	654.72	ST-28	654.50	15	RCP	CLASS III	0.50%	45
P-19	ST-17	655.35	ST-18	654.82	15	RCP	CLASS III	0.50%	106
P-20	ADS STORMTECH MC-4500	655.55	ST-17	655.45	15	RCP	CLASS III	1.72%	6
P-21	ST-23	658.29	ST-24	657.95	6	HDPE	CLASS III	1.00%	34
P-22	ST-24	657.95	ST-2	657.39	6	HDPE	CLASS III	1.00%	55
P-23	ST-21	655.34	ST-20	655.25	12	RCP	RCP	0.40%	22

STORM DRAIN STRUCTURE SCHEDULE										
STRUCTURE NO.	STRUCTURE TYPE	STRUCTURE SIZE (IN)	STRUCTURE MATERIAL	CASTING	PAY HEIGHT (LN FT)	* TOP OF CASTING ELEVATION	INVERT ELEVATION	OUTLET PIPE		
ST-1	WisDOT CATCH BASIN	36 x 24	RC	TYPE T	5.65	663.87	658.22	P-1		
ST-2	WisDOT CATCH BASIN	36 x 24	RC	TYPE T	7.49	664.29	656.80	P-2		
ST-3	WisDOT CATCH BASIN	36 x 24	RC	TYPE T	8.72	664.52	655.80	P-3		
ST-4	WisDOT MANHOLE	36 Ø	RC	TYPE C	5.33	663.83	658.49	P-4		
ST-5	WisDOT MANHOLE	36 Ø	RC	TYPE C	6.42	664.73	658.31	P-4A		
ST-6	WisDOT MANHOLE	36 Ø	RC	TYPE C	7.15	665.10	657.95	P-5		
ST-7	WisDOT MANHOLE	36 Ø	RC	TYPE C	6.96	664.16	657.20	P-6		
ST-8	WisDOT MANHOLE	48 Ø	RC	TYPE C	6.56	662.77	656.21	P-10		
ST-10	WisDOT CATCH BASIN	36 x 24	RC	TYPE H-S	6.17	663.59	657.42	P-8		
ST-11	WisDOT CATCH BASIN	36 x 24	RC	TYPE H-S	6.06	663.80	657.74	P-7		
ST-12	WisDOT MANHOLE	36 Ø	RC	TYPE C	6.45	662.66	656.20	P-9		
ST-13	WisDOT MANHOLE	36 Ø	RC	TYPE C	7.35	663.04	655.68	P-11		
ST-14	WisDOT CATCH BASIN	36 x 24	RC	TYPE H-S	6.43	662.44	656.01	P-11B		
ST-15	WisDOT MANHOLE	36 Ø	RC	TYPE C	8.02	663.58	655.56	P-11A		
ST-16	WisDOT CATCH BASIN	36 x 24	RC	TYPE H-S	7.31	663.09	655.78	P-12		
ST-17	WisDOT MANHOLE	36 Ø	RC	TYPE C	7.23	662.58	655.35	P-19		
ST-18	WisDOT MANHOLE	36 Ø	RC	TYPE C	7.06	661.79	654.72	P-18		
ST-20	WisDOT MANHOLE	36 Ø	RC	TYPE C	6.41	661.43	655.02	EXISTING		
ST-21	WisDOT CATCH BASIN	36 x 24	RC	TYPE H-S	5.70	660.73	655.03	P-23		
ST-22	WisDOT CATCH BASIN	36 x 24	RC	TYPE H-S	1.03	661.77	660.73	EXISTING		
ST-23	INLINE DRAIN	8 Ø	PVC	STANDARD GRATE	6.06	664.35	658.29	P-21		
ST-24	DRAIN BASIN	8 Ø	PVC	STANDARD GRATE	6.38	664.32	657.95	P-22		
ST-25	WisDOT CATCH BASIN	36 x 24	RC	TYPE H-S	5.69	664.34	658.65	P-1A		
ST-26	WisDOT CATCH BASIN	36 Ø	RC	TYPE C	8.02	665.02	657.00	P-1B		
ST-27	WisDOT MANHOLE	36 Ø	RC	TYPE C	9.30	664.85	655.55	P-3A		
ST-28	WisDOT MANHOLE	48 Ø	RC	TYPE C	9.30	663.55	654.25	EXISTING		



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PROJECT

COPPER ROCKS
DEVELOPMENT

wisconsin O LA CROSSE REVISION SCHEDULE DATE DESCRIPTION 21-25290 PROJECT NO. 25290 C0-DETAILS FILE NAME AAQ/SMW DRAWN BY DESIGNED BY AAQ/SMW/KBR REVIEWED BY KBR ORIGINAL ISSUE DATE --/--/--CLIENT PROJECT NO. -

TITLE

UTILITY SCHEDULES PRELIM

SHEET

C0-20

GENERAL PROJECT INFORMATION:	All solid waste collected from the construction site must be disposed in accordance with all applicable	Construction of silt fence and all other erosion control measures shall be complete before other	
PROJECT NARRATIVE:	regulations.	construction activity occurs. Use phased construction wherever practical and establish turf as soon as possible to minimize sediment transport.	
This project consists of the construction of asphaltic pavement, concrete sidewalk, curb & gutter,	All harmondaria mantariala (ail annalina firal maint ata) mariat ha muanantu atamant a muarant anilla lanka		
grading, stormwater management, restoration, erosion control, and any incidental work.	All hazardous materials (oil, gasoline, fuel, paint, etc) must be properly stored to prevent spills, leaks, or other discharge. Storage areas shall provide secondary containment and a hazardous materials	Temporary cover during construction is incidental.	
RESPONSIBLE PARTIES:	spill kit. Equipment fueling and maintenance shall occur in a designated, contained area. Storage and	Pipe outlets must be provided with temporary or permanent energy dissipation within 24 hours after	
Contractor and Owner are required to apply for and receive a Wisconsin Pollution Discharge Elimination System (WPDES) Stormwater Construction Permit from the WDNR at least 14 days	disposal of hazardous waste must be in compliance with all applicable regulations. All runoff containing any hazardous material must be properly collected and disposed. No engine degreasing shall	connection to a surface water.	
prior to beginning work.	be allowed on site.	All disturbed areas shall be seeded and mulched at the earliest possible time to prevent/reduce	
Contractor and owner shall identify a person knowledgeable and experienced in the application of	All sanitary wastes must be collected from portable units on site by a licensed sanitary waste	erosion.	
erosion prevention and sediment control BMP's who will oversee the implementation of the SWPPP.	management contractor. The units must be secured and shall be maintained on a regular basis as	A. Seed for the infiltration basin and swales shall be WisDOT mix #75 with mix #60 as a nurse crop	
	needed to prevent overfilling.	and shall meet Specification Section 630. All other seed shall be WisDOT mix #40 and shall meet	
Company: Contact Person:	Emergency Spill Plan — The Contractor is responsible for all construction personnel to be informed of	Specification Section 630. Mulching shall be appliced according to Specification Section 627.	
Phone:	the manufacturers' recommended spill cleanup methods, and the location of that information and	B. Fertilizer shall be WisDOT Type B and shall meet Specification Section 629.	
Company: Contact Person:	cleanup supplies. The Contractor shall modify the SWPPP as required within seven calendar days of knowledge of the release to: provide a description of the release, the circumstances leading to the		
Phone:	release, and the date of the release. Plans must identify measures to prevent the reoccurrence of	C. Temporary mulching shall be applied at a rate of 2 tons/acre. Mulch shall be disc anchored.	
Owner shall identify the entity responsible for the long term Operation and Maintenance of the storm	such releases. If a spill occurs, the following steps shall be followed:	Additional erosion prevention measures may be found at the Wisconsin Department of Natural	
water management system.	 Observe the safety precautions associated with the spilled material. Stop the source of the spill, if you can do so safely. Call 911 if fire or public safety hazards are created. 	Resources Best Management Practices.	
Company: Contact Person:	2. Contain the spilled material. Dirt, sand, or any semi—impermeable material may be used to create	SEDIMENT CONTROL PRACTICES:	
Phone:	a containment structure to prevent the material from flowing. 3. Report the spill to Wisconsin's Spill Hotline at (800) 943-0003.		
PROJECT AREAS:	4. Clean up the spilled material and dispose of the wastes properly.	Construction of silt fence and all other erosion control measures shall be complete prior to land disturbing activities occur.	
Total project size (disturbed area) = 6.96 acres Minimum area requiring WPDES permit = 1.00 acres	The contractor is responsible for monitoring air pollution and ensuring it does not exceed levels set by		
PROJECT DOES REQUIRE A WPDES PERMIT	local, state, or federal regulations. This includes dust created by work being performed on the site.	A tracking pad entrance or other approved alternatives must be constructed at the exit point from the project site.	
Existing area of impervious surface = 6.277 acres	Air pollution and dust control correction is considered incidental to the unit bid prices for which work is being performed. Additional dust control measures may be required by the Engineer.		
Post construction area of impervious surface = 4.584 acres	is being performed. Additional dust control medsures may be required by the Engineer.	Inlet erosion protection shall be installed and maintained until turf or pavement has been established.	
Total new impervious surface area created = (1.698) acres	Concrete washout onsite: All liquid and solid wastes generated by concrete washout operations	The contractor shall be responsible for controlling erosion and preventing eroded material from leaving	
	must be contained in a leak—proof containment facility or impermeable liner. A compacted clay liner that does not allow washout liquids to enter ground water is considered an impermeable	the construction zone. All eroded material that leaves the construction zone shall be collected by	
	liner. The liquid and solid wastes must not contact the ground, and there must not be runoff from	the contractor and returned to the site at the contractor's expense.	
	the concrete washout operations or areas. Liquid and solid wastes must be disposed of properly. A sign must be installed adjacent to each washout facility to inform concrete equipment operators to	Contractor shall maintain a 50-foot natural buffer or use redundant sediment controls near surface	
STORM WATER MANAGEMENT:	utilize the proper facilities.	waters if a buffer is not feasible.	
Types of permanent storm water management that will be used if more than one acre of new impervious surface is created are checked below:	INSPECTION AND MAINTENANCE.	Contractor shall take the necessary steps to minimize soil compaction and preserve topsoil on site.	
[] Wet sedimentation basin	INSPECTION AND MAINTENANCE:	All streets must be swept within 24 hours when any tracking occurs.	
[] Regional Pond - Un-Named [] Alternative methods	The Permittees must routinely inspect the construction site once every seven (7) days during active	All streets must be swept within 24 hours when any tracking occurs.	
RECEIVING WATERS:	construction and within 24 hours of a rainfall event greater than 0.5 inches in a 24 hour period.	Silt fence or other effective erosion control measures must be installed around the perimeter of any	
Surface waters which will receive storm water from the site within 1 mile (aerial radius measurement) of project boundary. Include waters shown on USGS 7.5 minute quad and all special or impaired	All inspections performed during construction must be recorded and records retained with the erosion	soil stockpiled, including temporary stockpiles, at this location or any other on the project site. Stockpiles cannot be placed in surface waters, including storm water conveyances such as curb and	
waters.	plan in accordance with the Permit. Contractor is responsible for keeping a record of all rainfall data & erosion control maintenance until final establishment of turf.	gutter systems, or conduits and ditches.	
Name of Water Body Type (ditch, pond, lake, etc.) Special/Impaired Water?	a erosion control maintenance until final establishment of turn.	<u>DEWATERING AND BASIN DRAINING:</u>	
	Erosion control and other BMP's must be replaced, repaired, or supplemented when they reach 33%	DEWATERING AND DASIN DIVARRING.	
	design load.	Dewater sediment—laden water to sedimentation basins if possible, or use other BMP's to prevent	
	FINAL STABILIZATION:	erosion when discharging to surface waters. Use appropriate energy dissipation measures on all discharges.	
	The Contractor must ensure final stabilization of the site. The Contractor must submit a Notice of Termination when the site has undergone final stabilization and all stormwater discharges associated		
	with the construction site activities that require to have WPDES coverage have ceased.	Dewatering practices cannot cause nuisance conditions, erosion or in receiving channels or inundation of wetlands resulting in adverse impacts.	
		or wetterias resulting in adverse impacts.	
	All temporary erosion control measures and BMP's must be removed as part of the final site stabilization.		
	Stubilization.		PDD SPECIFIC PLAN SUBMITTAL 06/03/2022
	The storm water permit further defines final stabilization and its requirements.		06/03/2022
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			PROJECT
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			CODDED DOCKS
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CONSTRUCTION ACTIVITY NOTES:

EROSION PREVENTION:

CONSTRUCTION ACTIVITY NOTES:

POLLUTION PREVENTION:

STORM WATER POLLUTION PREVENTION PLAN NOTES:

C1-10

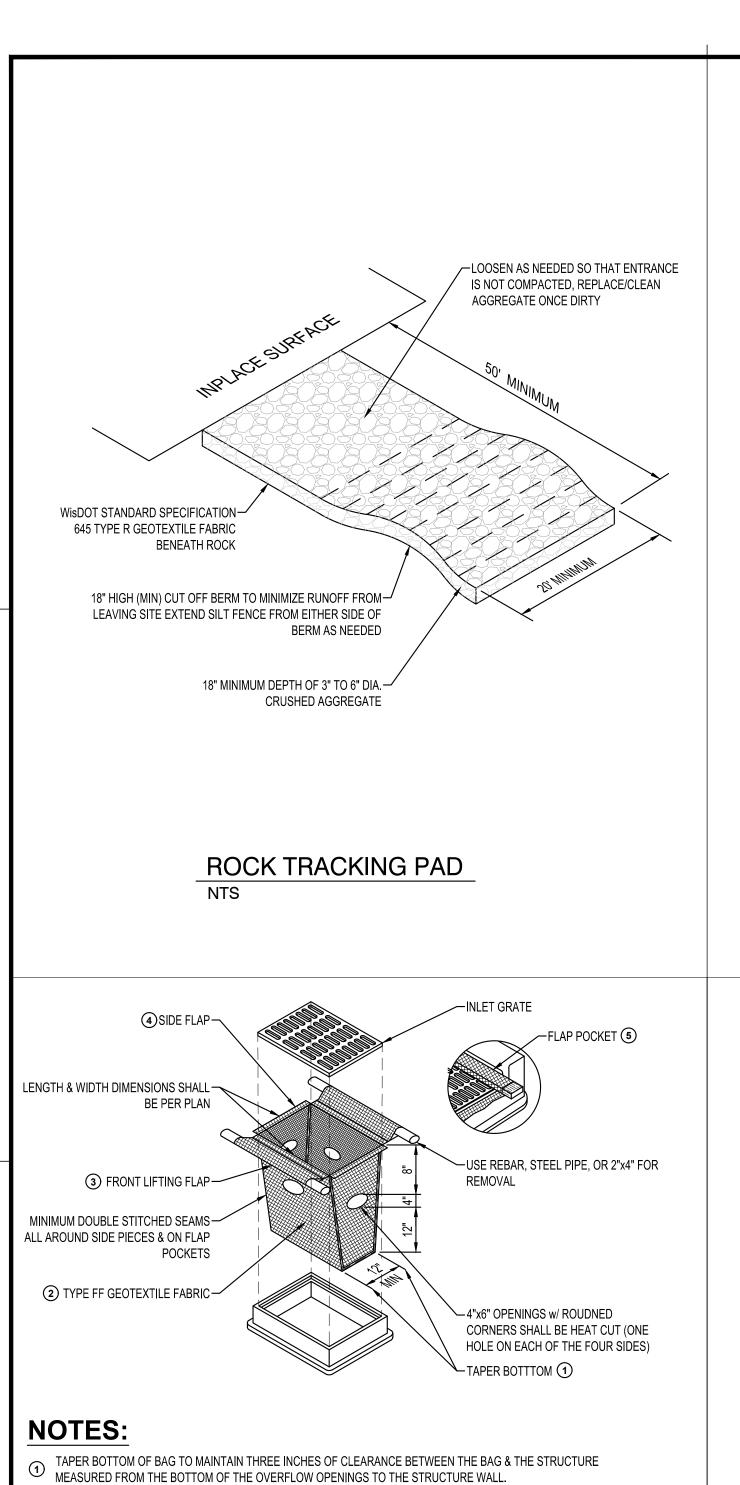
STORMWATER

POLLUTION

PREVENTION

PLAN NOTES

PRELIM



GEOTEXTILE FABRIC TYPE FF FOR FLAPS, TOP & BOTTOM OF OUTSIDE OF FILTER BAG. FRONT, BACK, & BOTTOM OF

SIDE FLAPS SHALL BE A MAXIMUM OF TWO INCHES LONG. FOLD THE FABRIC OVER & REINFORCE WITH MULTIPLE

、FLAP POCKETS SHALL BE LARGE ENOUGH TO ACCEPT WOOD 2" x 4". THE REBAR, STEEL PIPE, OR WOOD SHALL BE

WHEN REMOVING OR MAINTAINING INLET PROTECTION, CARE SHALL BE TAKEN SO THAT THE SEDIMENT TRAPPED IN

THE FABRIC DOES NOT FALL INTO THE STRUCTURE. MATERIAL THAT HAS FALLEN INTO THE INLET SHALL BE

INLET PROTECTION

INSTALLED IN THE REBAR FLAP & SHALL NOT BLOCK THE TOP HALF OF THE CURB FACE OPENING.

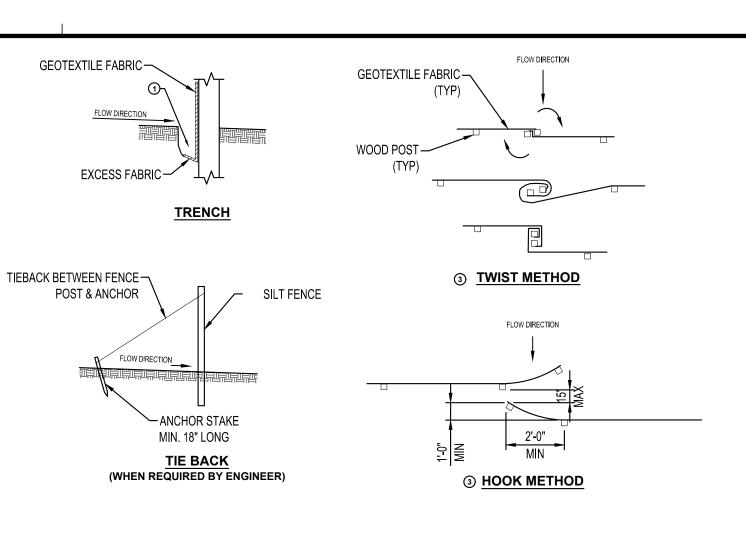
3 FRONT LIFTING FLAP IS TO BE USED WHEN REMOVING & MAINTAINING FILTER BAG.

CAN BE INSTALLED IN INLETS WITH OR WITHOUT CURB BOXES

FILTER BAG BEING ONE PIECE.

IMMEDIATELY REMOVED.

STAPLE DETAIL 2 ROWS--TAMP SOIL FIRMLY OF STAPLES 12" O.C. ∕−1 ROW OF 4" STAGGERED STAGGERED STAPLES 12" O.C. × × XXXXX 6" MIN 2 ROWS OF STAPLES, STAGGERED 12" O.C. EMAT END OVERLAP ALONG ROW CENTER OF WATERWAY CENTER OF WATERWAY 6" MIN EVERY 12" 12" STAGGERED XXXXXX X X X X X X X X X X X _STAPLÆ STAPLES EMAT SIDE OVERLAP EMAT SIDE EDGE TERMINAL END 3 4



NOTES:

TYPICAL SILT FENCE

(2) WOOD POSTS— 4'-0" MIN LENGTH 2'-0" MIN DEPTH

GEOTEXTILE FABRIC ONLY -

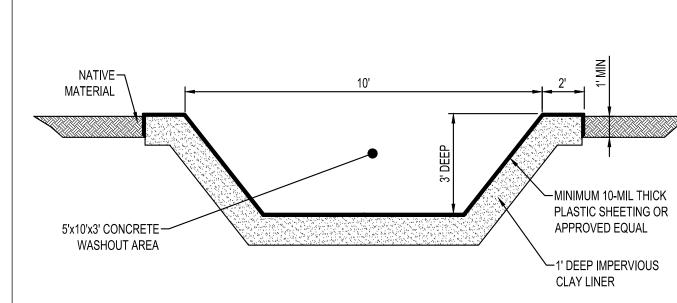
BACKFILL & COMPACT TRENCH-

WITH EXCAVATED SOIL

IN GROUND

SUPPORT CORD-OR TENSION TAPE GEOTEXTILE—

- ATTACH FABRIC TO THE POSTS WITH WIRE STAPLES OR WOODEN LATH & NAILS. ADDITIONAL POST DEPTH OR TIE BACKS MAY BE REQUIRED IN UNSTABLE SOILS.
- 8'-0" POST SPACING ALLOWED IF A WOVEN GEOTEXTILE FABRIC IS USED. FOR MANUAL INSTALLATIONS, TRENCH SHALL BE A MINIMUM OF 4" WIDE & 6" DEEP TO BURY & ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH,
- BACKFILL, & COMPACT TRENCH WITH EXCAVATED SOIL. ② WOOD POST SHALL BE A MINIMUM SIZE OF $1\frac{1}{8}$ " x $1\frac{1}{8}$ " OF OAK OR HICKORY.
- 3 CONSTRUCT SILT FENCE FROM A CONTINUOUS ROLL IF POSSIBLE BY CUTTING LENGTHS TO AVOID JOINTS. IF A JOINT IS NECESSARY USE ONE OF THE FOLLOWING TWO METHODS.
- A. TWIST METHOD OVERLAP THE END POSTS & TWIST, OR ROTATE AT LEAST 180°.
- B. HOOK METHOD HOOK END OF EACH SILT FENCE LENGTH.

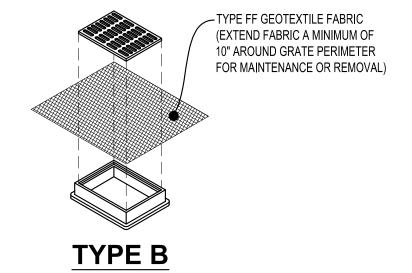


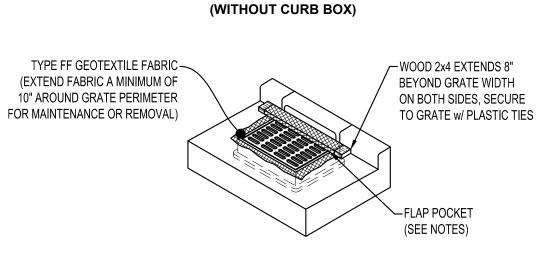
NOTES:

CONTRACTOR SHALL INSTALL A SIGN INDICATING THE CONCRETE WASHOUT AREA. CONTRACTOR SHALL MAINTAIN WASHOUT AREA TO REMOVE MATERIALS BEYOND 75% CAPACITY. WASHOUT AREA SHALL NOT BE PLACED WITHIN 50' OF STORM DRAINS, OPEN DITCHES OR BODIES OF WATER. CONTRACTOR SHALL INSPECT WASHOUT AREA AS NECESSARY TO PREVENT LEAKS AND OVER TOPPING.

CONCRETE WASHOUT

WASHOUT AREA SHALL BE REMOVED AFTER CONSTRUCTION IS COMPLETE.





TYPE C (WITH CURB BOX)

NOTES:

INLET SHALL BE IMMEDIATELY REMOVED.

FLAP POCKETS SHALL BE LARGE ENOUGH TO ACCEPT WOOD 2" x 4". THE REBAR, STEEL PIPE, OR WOOD SHALL BE INSTALLED IN TEH REBAR FLAP AND SHALL NOT BLOCK THE TOP HALF OF THE CURB FACE WHEN REMOVING OR MAINTAINING INLET PROTECTION, CARE SHALL BE TAKEN SO THAT THE SEDIMENT TRAPPED IN THE FABRIC DOES NOT FALL INTO THE STRUCTURE. MATERIAL THAT HAS FALLEN INTO THE

> TYPES B & C **INLET PROTECTION**

PDD SPECIFIC PLAN SUBMITTAL 06/03/2022

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PROJECT

LA CROSSE

COPPER ROCKS

WISCONSIN

DEVELOPMENT

DATE	DE	ESCRIPTION	BY				
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+							
ROJECT	NO.	21-25290					
ILE NAME	 E	25290 C1-SWPPP					
RAWN BY		AAQ/SMW					
ESIGNED BY		AAQ/SMW/KBR					
EVIEWED BY		KBR					
RIGINAL	ISSUE DATE	//					
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REVISION SCHEDULE

TITLE

CLIENT PROJECT NO. -

STORMWATER POLLUTION PREVENTION PLAN DETAILS

C1-20

NOTES:

INSTALL EROSION MAT (EMAT) OVER WATERWAYS AS SHOWN IN THE EROSION CONTROL

THE EMAT SHALL CONFORM TO WISDOT STANDARD SPECIFICATIONS SECTION 628. PREPARE SOIL PRIOR TO INSTALLING EMAT, INCLUDING SEEDING AND FERTILIZING. THE EMAT SHALL BE PLACED IN FIRM CONTACT WITH THE SOIL AND NOT BE ALLOWED TO BRIDGE OVER SURFACE IRREGULARITIES. THE MAT SHALL NOT BE STRETCHED. START LAYING THE MATS BY ROLLING CENTER MAT IN THE DIRECTION OF FLOW, CENTERED ON THE CENTERLINE OF WATERWAY. THERE SHALL NOT BE AN OVERLAP OF MATS AT THE CENTER OF THE WATERWAY.

THE EMAT SHALL BE ANCHORED, OVERLAPPED, AND STAPLED ACCORDING TO MANUFACTURER'S INSTRUCTIONS. IF NO MANUFACTURER'S INSTRUCTIONS ARE AVAILABLE, INSTALL THE MAT AS FOLLOWS. STAPLES SHALL BE "U" SHAPED, 0.12" DIAMETER WIRE OR GREATER (#11 GAUGE). (SEE STAPLE DETAIL FOR DIMENSIONS)

- BURY UPSTREAM END OF MAT IN A TRENCH 6" WIDE BY 6" DEEP AND STAPLED IN STAGGERED ROWS ACROSS THE WIDTH AS SHOWN IN DETAIL 1.
- C. FOR JOINING ENDS OF ROLLS, OVERLAP END OF UP SLOPE MAT A MINIMUM OF 6" (2) OVER DOWN SLOPE MAT (SHINGLE STYLE). USE A DOUBLE ROW OF STAGGERED STAPLES 4" APART, AS SHOWN IN DETAIL 2.
- D. MATS ON SIDE SLOPES SHALL OVERLAP A MINIMUM OF 6" OVER THE MAT BELOW (SHINGLE STYLE). STAPLE OVERLAP AT 12" INTERVALS. (SEE DETAIL 3)
- E. THE OUTER EDGE ALONG SIDES OF THE MAT SHALL BE STAPLED EVERY 12". (SEE DETAIL 4) F. STAPLES ARE TO BE PLACED ALTERNATELY IN COLUMNS (IN THE DIRECTION OF THE WATERWAY) 2' APART AND IN ROWS (ACROSS THE WATERWAY) 3' APART THROUGHOUT THE AREA COVERED BY THE ECB.
- G. DOWNSTREAM (TERMINAL) END OF BLANKET SHALL BE STAPLED WITH A DOUBLE ROW OF STAGGERED STAPLES 12" APART. (SEE DETAIL 5)

EROSION MAT INSTALLATION

