# **THREE MILE LAKE RESTORATION PHASE 1** IOWA DEPARTMENT OF NATURAL RESOURCES 130TH ST 138TH ST 130TH ST A-25 8 IERY 140TH ST R MERY US-34 The second S LAKE MILE 12 AVE PARK BOUNDARY 150TH ST UNION COUNTY 155TH ST 160TH ST LAKES DR N AVE SITE MAP



# **GENERAL NOTES:**

- THE LOCATIONS OF ALL AERIAL AND UNDERGROUND UTILITY FACILITIES ARE APPROXIMATE OR MAY NOT BE INDICATED IN THESE PLANS. UNDERGROUND FACILITIES, WHETHER INDICATED OR NOT, SHALL BE LOCATED AND FLAGGED BY THE CONTRACTOR AND UTILITY COMPANIES 48 HOURS BEFORE WORK IS STARTED. VERIFY UTILITY LOCATIONS BY CONTACTING THE IOWA ONE CALL (ONLINE AT WWW.IOWONECALL.COM AND/OR CALL 811). THE CONTRACTOR SHALL BE REQUIRED TO NOTIFY AND COORDINATE ALL NECESSARY UTILITY SERVICE INTERRUPTIONS WITH THE OWNERS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROTECT ALL EXISTING UTILITIES, PAVEMENT, STRUCTURES, FENCES, POLES, SIGNS, TREES, IRRIGATION LINES, SPRINKLER HEADS, SUB- DRAINS AND OTHER IMPROVEMENTS NOT DESIGNATED FOR REMOVAL. ANY DAMAGE CAUSED BY THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE.
- CONTOURS SHOWN ON THE PLANS ARE 2 FT CONTOURS FROM LIDAR & 2 FT CONTOUR BATHYMETRY FROM IDNR. ELEVATIONS CALLED OUT ON THE PLANS ARE REFERENCED TO NAVD 88 VERTICAL DATUM. HORIZONTAL CONTROL IS NAD83 IOWA STATE PLANE NORTH.
- THE CONTRACTOR SHALL CONDUCT ALL OPERATIONS AND MAINTAIN CONSTRUCTION 3. WORK AREA IN A SAFE MANNER IN ACCORDANCE WITH OSHA COMPLIANCE.
- 4 CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING ALL TEMPORARY MARKERS. LIGHTS, SIGNS, FLAGMEN, BARRICADES AND OTHER PROTECTIVE DEVICES TO PROVIDE ADEQUATE TRAFFIC CONTROL. THIS SHALL INCLUDE ANY BARRICADES OR SIGNS NECESSARY FOR PEDESTRIAN TRAIL CLOSURE.
- ELECTRONIC GRADING FILES AND EXISTING UTILITIES AND WETLANDS CAN BE PROVIDED 5. BY ENGINEER UPON REQUEST.
- CONTRACTOR IS RESPONSIBLE FOR REPAIRING DAMAGE TO ROADS USED AS HAUL ROUTES. CONDITIONS PRIOR TO CONSTRUCTION TO BE DOCUMENTED BY THE CONTRACTOR AND MUST BE RESTORED TO ORIGINAL CONDITIONS OR BETTER BY SMOOTHING COMPACTED SOILS PRIOR TO FINISHED GRADING AND SEEDING WITH SPECIFIED MIX OR COVER CROP IN DISTURBED AREAS WITHOUT A SEEDING MIX CALLED OUT.
- ACCESS ROUTES IDENTIFIED TO EACH SITE MUST BE STRICTLY ABIDED TO. 7 CONTRACTOR MAY PROPOSE ALTERNATE ROUTES FOR APPROVAL BY FIELD ENGINEER PRIOR TO MOBILIZATION.
- THE QUANTITIES SHOWN FOR SEEDING INCLUDE ALL NON-PAVED AREAS WITHIN THE LIMITS OF CONSTRUCTION AND DOES NOT ACCOUNT FOR ANY AREA THAT IS DISTURBED OUTSIDE THE LIMITS OF CONSTRUCTION. DISTURBED AREAS OUTSIDE THE LIMITS OF CONSTRUCTION MUST BE RESTORED, SEEDED, AND MULCHED AND WILL BE CONSIDERED INCIDENTAL TO THE PROJECT.
- ALL SEEDED AREAS MUST BE HYDROMULCHED. BORROW MATERIAL TO BE OBTAINED FROM EACH POND AS DESCRIBED ON PLAN 10 SHEETS. COORDINATE WITH FIELD ENGINEER TO DETERMINE SUITABLE FILL MATERIAL IF SUITABLE MATERIAL CANNOT BE OBTAINED ON SITE AS DESCRIBED, CONTRACTOR TO COORDINATE WITH FIELD ENGINEER.
- CLEARING AND GRUBBING TO BE PERFORMED ONLY IN LOCATIONS NECESSARY TO 11 CONSTRUCT/BORROW AND ACCESS THE SITE. CONTRACTOR SHALL LIMIT CONSTRUCTION OPERATIONS TO MINIMIZE CLEARING AND GRUBBING EXTENTS.
- TREES/SHRUBS AND ANY UNUSABLE FILL MATERIAL EXCAVATED, TO OBTAIN BORROW, 12. TO BE SPOILED ON SITE IN EXISTING TREED AREA OUTSIDE OF PROPOSED AREAS OF CONSTRUCTION OR PERMANENT POOL, UNLESS DIRECTED OTHERWISE ON PLAN SHEETS.
- 13. PROTECT BY WHATEVER MEANS REQUIRED ALL FENCES, SIGNS, STRUCTURES, DRIVES, SIDEWALKS, STREETS, BUSHES, TREES, ETC, SHOWN TD REMAIN OUTSIDE OR INSIDE THE LIMITS OF CONSTRUCTION.
- 14. THE OWNER SHALL RESERVE THE RIGHT TO SALVAGE ANY MATERIALS.
- 15 REPAIR OR REPLACE ITEMS THAT ARE DAMAGED AS A RESULT OF DEMOLITION OR CONSTRUCTION TO MATCH OR IMPROVE EXISTING CONDITIONS CONTRACTOR TO ATTEND THE PRE-CONSTRUCTION CONFERENCE WITH OWNER,
- ENGINEER, AND OTHER PROJECT STAKEHOLDERS. 17. RAMPS AND HAUL ROUTES THAT THE CONTRACTOR CONSTRUCTS FOR HAULING
- MATERIAL AND TRANSPORTING EQUIPMENT SHALL BE CONSIDERED INCIDENTAL TO MOBILIZATION.

# PERMITTING NOTES

- NO TREE CLEARING PERMITTED BETWEEN APRIL 1 AND SEPTEMBER 30.
- CONTRACTOR MUST DEVELOP ALL DOCUMENTATION REQUIRED TO APPLY FOR 2 AND OBTAIN THE NPDES PERMIT GRANTED BY IOWA DEPARTMENT OF NATURAL RESOURCES. CONTRACTOR MUST ADHERE TO THE REQUIREMENTS OF THE NPDES PERMIT AND SWPPP (SHEET S.1). CONTRACTOR TO IMPLEMENT COVER CROP ON ALL DISTURBED AREAS IMMEDIATELY UPON COMPLETION OF GRADING OPERATIONS AT SITE IN ACCORDANCE WITH PROJECT SPECIFICATIONS.
- CONTRACTOR MUST ADHERE TO THE REQUIREMENTS OF THE 404 PERMIT 3 GRANTED BY THE UNTIED STATES ARMY CORPS OF ENGINEERS FOR THIS PROJECT. A COPY OF THE REQUIREMENTS WILL BE PROVIDED TO THE SELECTED CONTRACTOR, OR UPON REQUEST.
- DELINEATED WETLANDS ARE SHOWN ON THE PLANS. CONTRACTOR SHALL LIMIT ALL CONSTRUCTION ACTIVITIES FROM ENCROACHING UPON WETLAND 4 AREAS, EXCEPT LOCATIONS SPECIFICALLY DESIGNATED IN THE CONSTRUCTION DRAWINGS. WETLAND AREAS THAT ARE TEMPORARILY DISTURBED DUE TO CONSTRUCTION ACTIVITIES SHALL BE RESTORED AND RESEEDED WITH THE WETLAND SEEDING MIX AS DETAILED IN THE PROJECT SPECIFICATIONS
- AVOID WETLANDS UNLESS INDICATED ON SHEETS.

# QUANTITIES

GENERAL		
ITEM	UNITS	QUANTITY
MOBILIZATION	LS	1
CLEARING AND GRUBBING	LS	1
WATER HANDLING	LS	1
EROSION CONTROL (SWPPP)	LS	1
SURVEYING & STAKING	LS	1
SEEDING - COVER CROP	AC	8.9

#### BMP 3

ITEM	UNITS	QUANTITY
STRIP, STOCKPILE AND REPLACE 9" TOPSOIL	CY	1421
EARTH EMBANKMENT	CY	4305
24" SMP	LF	109
CLASS "E" ROCK RIPRAP	TN	17
SEEPAGE FILTER SAND FOR DIAPHRAGM FILTER	CY	22
8" PVC SEEPAGE DRAIN SOLID WALL PIPE	LF	60
8" PVC SEEPAGE DRAIN PERFORATED PIPE	LF	8
SEEDING - GRASS SEED MIX	AC	1.2
TIMBER POLE	EA	4

#### BMP 7

ITEM	UNITS	QUANTITY
STRIP, STOCKPILE AND REPLACE 9" TOPSOIL	CY	1509
EARTH EMBANKMENT	CY	5443
24" SMP PIPE	LF	127
36" DIA VERTICAL RISER	EA	1
ANTI-VORTEX DEVICE	EA	1
CLASS "E" ROCK RIPRAP	TN	16
SEEPAGE FILTER SAND FOR DIAPHRAGM FILTER	CY	22
8" PVC SEEPAGE DRAIN SOLID WALL PIPE	LF	62
8" PVC SEEPAGE DRAIN PERFORATED PIPE	LF	8
SEEDING - GRASS SEED MIX	AC	1.3
TIMBER POLE	EA	4

# LEGEND

	EXISTING CONTOUR MINOR
<b>700</b>	EXISTING CONTOUR MAJOR
	PARK BOUNDARY LINE
	GAS UTILITY LINE
	LIQUEFIED PETROLEUM UTILITY LINE
	OVERHEAD POWER UTILITY LINE
PO FO FO FO FO	FIBER OPTIC UTILITY LINE
	PARK TRAIL
	EXCAVATION EXTENTS
- <b>ooo</b>	SILT FENCE
_0000	PARK FENCE
	LIMITS OF CONSTRUCTION
<u> \$0\$0\$0\$0</u>	ROCK RIPRAP
* * * * * * * * * * * *	EXISTING WETLANDS
	SEOFEEINE
	SAND
	GRAVEL
	EXCAVATION
	EARTH FILL

STOCK PILE

### BMP 15

ITEM	UNITS	QUANTITY
DREDGE (LOCAL SPOIL)	CY	849
CATTLE FENCE	LF	96
CATTLE PANEL	EA	2
CLASS "E" ROCK RIPRAP	TN	66

# BMP 16

ITEM	UNITS	QUANTITY
DREDGE (LOCAL SPOIL)	CY	3020
CATTLE FENCE	LF	126
CATTLE PANEL	EA	2
CLASS "E" ROCK RIPRAP	TN	61

### BMP 15 & 16 SPOILS

ITEM	UNITS	QUANTITY
EARTH EMBANKMENT	CY	2893
12" SOLID WALL PVC & APPURTENANCES	LF	81
12" PERFORATED PVC RISER W/ SOCK	EA	1
CLASS "E" ROCK RIPRAP	TN	2
SEEDING - COVER CROP	AC	2.2

#### SITE B STREAM MITIGATION

ITEM	UNITS	QUANTITY
EXCAVATION (LOCAL SPOIL)	CY	911
TRENCH AND BACKFILL	CY	9
PLACE 9" TOPSOIL	CY	732
CLASS "E" ROCK RIPRAP	TN	494
CLASS "B" ROCK RIPRAP	TN	50
18"-24" DIA HARDWOOD LOGS	EA	2
LIVE STAKES	EA	95
SEEDING - FLOODPLAIN SEED MIX	AC	2.2
SEEDING - COVER CROP	AC	8.9

# **ABBREVIATIONS**

- CENTERLINE - CUBIC YARD
- ELEVATION
- FEET
- MAXIMUM
- MINIMUM
- SQUARE YARD
- SWPPP STORM WATER POLLUTION PREVENTION PLAN
  - TYPICAL
  - EACH
  - TON
  - LUMP SUM - DIAMETER
  - FLARED END SECTION
  - MANUFACTURER
  - SMOOTH METAL PIPE
  - RIGHT BANK
  - LEFT BANK
- FLOODPLAIN BANK GRADING - STREAM BANK STABILIZATION
- CONTROL POINTS



OF NATURAL RESOURCES

DEPARTMENT

IOWA

COUNTY,

IOWA [ UNION C 2021

ENGINEER'S SEAL

THREE MILE LAKE RESTORATION PHASE

## REVISIONS NO. DATE SEM RAWN BY CKW QA / QC BY: MKS PROJECT NO .: 007-20-01 ATE: 08.10.2021 TLE IGENERAL NOTES

HEET

A.2

### CONTACT INFORMATION IOWA DEPARTMENT OF NATURAL RESOURCES MS. MICHELLE BALMER

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BER POLE ETAILS ON SHEET B.102	100 Court Avenue, Suite 202 Des Moines, Iowa 50309 515.444.5393 www.fyraengineering.com
- PROPOSED EMBANKMENT 24" SMP 	HREE MILE LAKE RESTORATION PHASE 1 DWA DEPARTMENT OF NATURAL RESOURCES NION COUNTY, IOWA 021
LWAY OR PLANS RIP AND STOCKPILE EXISTING TOPSOIL	ENGINEER'S SEAL
OVEREXCAVATE 9" AND REPLACE TOPSOIL	REVISIONS
PROPOSED GRADING PLACE 9" TOPSOIL STRIP AND STOCKPILE 9" OF TOPSOIL	DESIGNED BY: SEM DRAWN BY: CKW QA / QC BY: MKS PROJECT NO: 007-20-01 DATE: 08.10.2021 TITLE BMP DETAILS (2 OF 2)
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100 Court Avenue, Suite 202 Des Moines, Iowa 50309 515.444.5393 www.fyraengineering.com IOWA DEPARTMENT OF NATURAL RESOURCES UNION COUNTY, IOWA 2021 ~ THREE MILE LAKE RESTORATION PHASE LIVE STAKING ABOVE ROCK AND STAGGER EVERY 5 FT WILLOW STAKES TO BE HARVESTED FROM WITHIN THE PARK AS COORDINATED WITH THE FIELD ENGINEER 3 FT NOTE: SALVAGE AND REPLACE TOPSOIL FROM EXISTING BANKLINE. IF INSUFFICIENT QUANTITY LOCALLY, CONTRACTOR TO OBTAIN TOPSOIL FROM SPOILS AREA SHOWN ON M.6 ENGINEER'S SEAL STREAM BANK STABILIZATION DETAIL 2 ( 2 M.100 REVISIONS NO. DATE DESIGNED BY: DRAWN BY: SEM CKW QA / QC BY: MKS PROJECT NO.: DATE: 007-20-01 08.10.2021 TITLE STREAM STABILIZATION DETAILS SHEET M.100



### STORMWATER POLLUTION PREVENTION PLAN

ALL CONTRACTORS/SUBCONTRACTORS, SHALL CONDUCT THEIR OPERATIONS IN A MANNER THAT UNIVERSIDATE OF A DATE OF A DAT PREVENTION PLAN (SWPPP) FOR THEIR ENTIRE CONTRACT. THIS RESPONSIBILITY SHALL BE PURTHER SHARED WITH SUBCONTRACTORS WHOSE WORK IS A SOURCE OF POTENTIAL POLLUTION AS DEFINED IN THIS SWPPP.

EROSION CONTROL IS A LUMP SUM PAYMENT AND INCLUDES ALL EROSION CONTROL ITEMS EXCEPT FOR HYDROMULCH, WHICH HAVE A LINE ITEM IN THE BID FORM. CONTRACTOR IS RESPONSIBLE FOR PLACEMENT, CLEAN OUT, AND MAINTENANCE OF ALL SWPPP ITEMS AND REMOVAL ONCE ENGINEER'S APPROVAL IS PROVIDED.

1. <u>SITE DESCRIPTION</u> THIS SWPPP IS FOR THE CONSTRUCTION OF WATERSHED AND LAKE IMPROVEMENTS AT THREE MILE LAKE IN TOWNSHIP T73 N BANGE 29 W SECTIONS 19 30 AND 31 AND TOWNSHIP T73 N RANCE 30 W, SECTIONS 25. THIS PROJECT CONSISTS OF THE DREDGING OF TWO WATERSHED PONDS/EARTH IMPOUNDMENTS, ONE SPOILS BASIN, CONSTRUCTION OF TWO WATERSHED PONDS/EARTH IMPOUNDMENTS, STREAM MITIGATION, AND INCIDENTAL WORK AS REQUIRED BY THE PLANS AND/OR THE DNR CONSTRUCTION INSPECTOR.

#### POTENTIAL SOURCES OF POLLUTION:

STE SOURCES OF POLLUTION GENERATED AS A RESULT OF THIS WORK RELATE TO SILTS AND SEDIMENT WHICH MAY BE TRANSPORTED AS A RESULT OF A STORM EVENT. HOWEVER, THIS SWPPP PROVIDES CONVEYANCE FOR OTHER (NON-PROJECT RELATED) OPERATIONS. THESE OTHER OPERATIONS HAVE STORM WATER RUNOFF, THE REGULATION OF WHICH IS BEYOND THE CONTROL OF THIS SWPEP, POTENTIALLY THIS RUNOFF CAN CONTAIN VARIOUS POLLUTANTS RELATED TO SITE-SPECIFIC LAND USES. EXAMPLES ARE:

#### RURAL AGRICULTURAL ACTIVITIES:

RUNOFF FROM AGRICULTURAL LAND USE CAN POTENTIALLY CONTAIN CHEMICALS INCLUDING HERBICIDES, PESTICIDES, FUNGICIDES AND FERTILIZERS.

2. <u>CONTROLS</u> AT DOWNGRADIENT LOCATIONS WHERE RUNOFF CAN MOVE FROM EACH CONSTRUCTION SITE, CONTROLS SHALL BE PLACED ALONG THE PERIMETER OF THE AREAS TO BE DISTURBED PRIOR TO BEGINNING GRADING, EXCAVATION OR CLEARING AND GRUBBING OPERATIONS. CONTROLS INCLUDE <u>SILT FENCE</u>, <u>STRAW WADDLE</u> (OR APPROVED EQUIVALENTS BY FIELD ENGINEER) AS LAID OUT ON THE SITE PLAN SHEETS. VEGETATION IN AREAS NOT NEEDED FOR CONSTRUCTION SHALL BE PRESERVED.

CONSTRUCTION ENTRANCES TO BE PLACED AT ALL LOCATIONS WHERE EQUIPMENT ENTERS AND EXITS EACH PROJECT SITE FROM PARK ROADS IN ORDER TO REDUCE SEDIMENT TRACK OUT. ANY SEDIMENT TRACK OUT THAT DOES OCCUR MUST BE REMOVED AND SPOILED ON SITE.

TEMPORARY STABILIZING SEEDING SHALL BE COMPLETED AS THE DISTURBED AREAS ARE CONSTRUCTED. IF CONSTRUCTION ACTIVITY IS NOT PLANNED TO OCCUR IN A DISTURBED AREA FOR AT LEAST 21 DAYS, THE AREA SHALL BE STABILIZED BY TEMPORARY SEEDING OR MULCHING WITHIN 14 DAYS. OTHER STABILIZING METHODS SHALL BE USED OUTSIDE THE SEEDING TIME PERIOD. TEMPORARY SEEDING AND MULCHING SHALL BE CONSIDERED INCIDENTAL TO THE POLICIT. UPON REACHING FINAL GRADES, HYDROMULCH WILL BE PLACED ON SLOPES AS INDICATED ON PLANS.

AS THE WORK PROGRESSES, ADDITIONAL EROSION CONTROL ITEMS MAY BE REQUIRED AS DETERMINED BY THE CONTRACTOR AFTER FIELD INVESTIGATION. THE CONTRACTOR WILL COMPLETE THE CONSTRUCTION WITH THE ESTABLISHMENT OF PERMANENT PERENNIAL VEGETATION OF ALL DISTURBED AREAS AND HYDROMULCH IN SPECIFIED LOCATIONS

#### OTHER CONTROLS:

CONTRACTOR DISPOSAL OF UNUSED CONSTRUCTION MATERIALS AND CONSTRUCTION MATERIAL WASTES SHALL COMPLY WITH APPLICABLE STATE AND LOCAL WASTE DISPOSAL, SANITARY SEWER, OR SEPTIC SYSTEM REGULATIONS. IN THE EVENT OF A CONFLICT WITH OTHER GOVERNMENTAL LAWS, RULES AND REGULATIONS, THE MORE RESTRICTIVE LAWS, RULES OR REGULATIONS SHALL APPLY

#### APPROVED STATE OR LOCAL PLANS:

DURING THE COURSE OF THIS CONSTRUCTION, IT IS POSSIBLE THAT SITUATIONS WILL ARISE WHERE UNKNOWN MATERIALS WILL BE ENCOUNTERED. WHEN SUCH SITUATIONS ARE ENCOUNTERED, THEY WILL BE HANDLED ACCORDING TO ALL FEDERAL, STATE, AND LOCAL REGULATIONS IN EFFECT AT THE TIME.

3. MAINTENANCE THE CONTRACTOR IS REQUIRED TO MAINTAIN ALL TEMPORARY EROSION CONTROL MEASURES IN PROPER WORKING ORDER, INCLUDING CLEANING, REPAIRING, OR REPLACING THEM THROUGHOUT THE CONTRACT PERIOD. CLEANING OF SILT CONTROL DEVICES SHALL BEGIN WHEN THE FEATURES HAVE LOST 50% OF THEIR CAPACITY.

4. INSPECTIONS INSPECTIONS SHALL BE MADE JOINTLY BY THE CONTRACTOR AND THE CONTRACTING AUTHORITY EVERY SEVEN CALENDAR DAYS AND AFTER EACH RAIN EVENT THAT IS 1/2" OR GREATER. THE CONTRACTOR SHALL IMMEDIATELY BEGIN CORRECTIVE ACTION ON ALL DEFICIENCIES FOUND. THE FINDINGS OF THIS INSPECTION SHALL BE RECORDED IN THE PROJECT DIARY. THIS SWPPP MAY BE REVISED BASED ON THE FINDINGS OF THE INSPECTION. THE CONTRACTOR SHALL IMPLEMENT ALL REVISIONS. ALL CORRECTIVE ACTIONS SHALL BE COMPLETED WITHIN 3 CALENDAR DAYS OF THE INSPECTION.

#### 5. NON-STORM DISCHARGES

THIS INCLUDES SUBSURFACE DRAINS (I.E. LONGITUDINAL AND STANDARD SUBDRAINS), SLOPE DRAINS AND BRIDGE END DRAINS. THE VELOCITY OF THE DISCHARGE FROM THESE FEATURES MAY BE CONTROLLED BY THE USE OF ROLLED EROSION CONTROL, OR RIPRAP.





### FILTER FABRIC SPECIFICATIONS



GRADED TO SUBGRADE AND WHERE MOST TRAVEL WOULD BE SINGLE AXLE VEHICLES AND AN OCCASIONAL MULTI-AXLE TRUCK. HEAVY DUTY ENTRANCE SHALL BE DEFINED AS SITES WITH ONLY ROUGH GRADING AND WHERE MOST TRAVEL WOULD BE MULTIAXLE VEHICLES.

#### CONSTRUCTION SPECIFICATIONS

- 1. STONE SIZE USE 2" STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT
- 2. LENGTH AS REQUIRED, BUT NOT LESS THAN 70 FEET (EXCEPT ON A SINGLE RESIDENCE LOT WHERE A 30 FOOT MINIMUM LENGTH WOULD APPLY).
- 3. THICKNESS NOT LESS THAN SIX (6) INCHES.
- 4. WIDTH TWENTY FIVE (25) FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS.
- 5. FILTER FABRIC WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE. FILTER WILL NOT BE REQUIRED ON A SINGLE FAMILY RESIDENCE LOT.
- 6. SURFACE WATER ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5H:1V SLOPES WILL BE PERMITTED.
- 7. MAINTENANCE THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.
- 8. WASHING WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHTS-OF-WAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
- 9. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.







SEM CKW MKS PROJECT NO .: 007-20-01 DATE: 08.10.2021

TITLE SWPP DETAILS (1 OF 2)

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DESIGNED BY: DRAWN BY: QA / QC BY:

