GENERAL NOTES

1.) SITE OWNER: VSM ABRASIVES CORPORATION
1012 E. WABASH STREET
O'FALLON, MO 63366
PH. (636) 272-7432

EMERGENCY CONTACT (CONSTRUCTION): KEN KUEHLER
MUSICK CONSTRUCTION
CELL: 314-378-6993
EMAIL: KENK@MUSICKCONSTRUCTION.COM

2.) SITE ADDRESS: 1012 E. WABASH STREET
O'FALLON, MO 63366

3.) ALL FILL OR BACKFILL OPERATIONS SHALL BE EXECUTED UNDER THE DIRECT SUPERVISION OF THE GEOTECHNICAL ENGINEER. THE GEOTECHNICAL ENGINEER SHALL DETERMINE THE SUITABILITY AND ASCERTAIN COMPLIANCE WITH SPECIFICATION REQUIREMENTS OF ALL MATERIALS TO BE USED AS FILLS.

4.) TOTAL LAND ESTIMATED TO BE DISTURBED = 1.55 ac. ±

5.) EARTHWORK QUANTITIES
BULK CUT 10,394+/- CUBIC YARD
BULK FILL 10,394+/- CUBIC YARD (INCLUDES 15 PERCENT FOR SHRINKAGE)

(SEE EARTHWORK NOTES ON SHEET C2).

6.) A CORPORATE SURETY BOND, CONDITIONED UPON CARRYING OUT EACH AND EVERY PART OF APPROVED PLANS FOR AT LEAST THE SUM ESTIMATED TO BE THE FULL COSTS OF CARRYING OUT SUCH PLANS OR A CASH ESCROW, UPON THE SAME CONDITIONS AND IN THE SAME AMOUNT, SHALL BE FURNISHED THE CITY WHENEVER SUCH COSTS EXCEED FIVE HUNDRED DOLLARS ($500.00). THE BOND OR ESCROW SHALL BE RELEASED UPON PROPER COMPLETION OF ALL OF THE REQUIREMENTS OF SUCH APPROVED PLANS.

7.) THE PERMIT HOLDER IS TO ENSURE PROPER INSTALLATION, OPERATION AND MAINTENANCE OF BMP'S AND TO DETERMINE THE OVERALL EFFECTIVENESS OF THE SWPPP AS WELL AS THE NEED FOR ADDITIONAL CONTROL MEASURES TO THE COUNTY. THE PERMIT HOLDER SHALL ALSO BE RESPONSIBLE TO:

a. NOTIFY THE SITE CONTRACTOR(S) RESPONSIBLE FOR ANY DEFICIENCIES IDENTIFIED SO THAT DEFICIENCIES CAN BE CORRECTED WITHIN SEVEN CALENDAR DAYS OF THE INSPECTION REPORT. SUCH WEEKLY INSPECTION REPORTS SHALL IDENTIFY DEFICIENCIES AS WELL AS PROGRESS IN CORRECTING DEFICIENCIES.

b. NOTIFY ALL CONTRACTORS AND OTHER ENTITIES (INCLUDING UTILITY CREWS, COUNTY EMPLOYEES, OR THEIR AGENTS) THAT WILL PERFORM WORK AT THE SITE, OF THE EXISTENCE OF THE SWPPP AND WHAT ACTIONS OR PRECAUTIONS SHALL BE TAKEN WHILE ON SITE TO MINIMIZE THE POTENTIAL FOR EROSION AND THE POTENTIAL FOR DAMAGING ANY BMP'S.

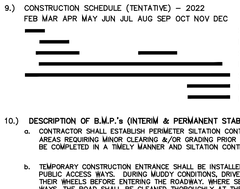
c. DETERMINE THE NEED FOR AND ESTABLISH TRAINING PROGRAMS TO ENSURE THAT ALL SITE WORKERS HAVE BEEN TRAINED, AT A MINIMUM, IN EROSION CONTROL, MATERIAL HANDLING AND STORAGE, AND HOUSEKEEPING.

d. PROVIDE COPIES OF THE SWPPP TO ALL PARTIES WHO ARE RESPONSIBLE FOR INSTALLATION, OPERATION OR MAINTENANCE OF ANY BMP'S.

e. MAINTAIN A CURRENT COPY OF THE SWPPP AND PERMIT ON THE SITE AT ALL TIMES AND MADE AVAILABLE UPON REQUEST. IF CONDITIONS ARE NOT FAVORABLE TO MAINTAIN A CURRENT COPY OF THE SWPPP ON SITE, INSTALL A SIGN AT THE ENTRANCE TO THE SITE, PLAINLY VISIBLE TO THE TRAVELING PUBLIC, LISTING INFORMATION PERTINENT TO THE SWPPP'S LOCATION AND THE 24 HOURS A DAY / 7 DAYS PER WEEK PHONE NUMBER OF THE PERSON IN CHARGE OF THE SWPPP.

8.) PRIOR TO ANY MAJOR LAND DISTURBANCE ACTIVITY, A LAND DISTURBANCE PERMIT FROM THE STATE OF MISSOURI DEPARTMENT OF NATURAL RESOURCES WILL BE REQUIRED.

9.) CONSTRUCTION SCHEDULE (TENTATIVE) – 2022



10.) DESCRIPTION OF B.M.P.'s (INTERIM & PERMANENT STABILIZATION PRACTICES/SCHEDULE)

a. CONTRACTOR SHALL ESTABLISH PERIMETER SILTATION CONTROL PRIOR TO ANY CONSTRUCTION ACTIVITIES. AREAS REQUIRING MINOR CLEARING &/OR GRADING PRIOR TO INSTALLATION OF SILTATION CONTROL SHALL BE COMPLETED IN A TIMELY MANNER AND SILTATION CONTROL ESTABLISHED IMMEDIATELY FOLLOWING

b. TEMPORARY CONSTRUCTION ENTRANCE SHALL BE INSTALLED WHERE THE ACCESS AREAS INTERSECT WITH PUBLIC ACCESS WAYS. DURING MUDDY CONDITIONS, DRIVERS OF VEHICLES WILL BE REQUIRED TO WASH THEIR WHEELS BEFORE ENTERING THE ROADWAY. WHERE SEDIMENT IS TRANSPORTED ONTO PUBLIC ACCESS WAYS, THE ROAD SHALL BE CLEANED THOROUGHLY AT THE END OF EACH DAY. SEDIMENT SHALL BE REMOVED FROM THE ROAD BY SHOVELING OR SWEEPING. STREET WASHING SHALL BE ALLOWED ONLY AFTER SEDIMENT IS REMOVED IN THIS MANNER.

c. UPON COMMENCEMENT OF INITIAL CLEARING AND GRUBBING OPERATIONS, AS WELL AS FUTURE GRADING OPERATIONS, TOPSOIL MUST BE STRIPPED FROM GRADED AREAS AND STOCKPILED FOR USE IN FINAL GRADING AND/OR EXCESS REMOVAL. THE STOCKPILES WILL BE KEPT ON SITE BUT MUST STAY CLEAR OF ALL CONSTRUCTION ACTIVITY. THE STOCKPILE WILL BE STABILIZED WITH TEMPORARY VEGETATION TO PREVENT SOIL LOSS AND SEDIMENT TRANSPORT FROM THE STOCKPILE ITSELF UNTIL NEEDED.

d. TEMPORARY ROADS SHALL FOLLOW THE CONTOUR OF THE NATURAL TERRAIN TO THE EXTENT POSSIBLE. SLOPES SHALL NOT EXCEED 10 PERCENT SLOPE.

e. CONTRACTOR SHALL CLEAR AND GRUB THOSE AREAS OF THE SITE SCHEDULED FOR CONSTRUCTION. AREAS NOT SCHEDULED FOR IMMEDIATE CONSTRUCTION SHALL NOT BE CLEARED OF ESTABLISHED VEGETATION UNTIL REQUIRED. REMAINDER OF SITE SHALL BE GRADED, AS REQUIRED. CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLATION AND MAINTENANCE OF SILTATION CONTROL THROUGHOUT THE DURATION OF THE PROJECT.

f. STORM DRAINS SHALL BE INSTALLED AS EARLY AS POSSIBLE, PROVIDED THE INSTALLATION DOES NOT CONFLICT WITH OTHER CONSTRUCTION ACTIVITIES. SILT FENCE SHALL BE STAKED AROUND EACH INLET IMMEDIATELY, UPON COMPLETION OF CONSTRUCTION OF EACH INLET. INLETS MAY BE UTILIZED FOR STORMWATER CONTROL DURING CONSTRUCTION WITH THE SILT FENCE AND EROSION CONTROL MEASURES IN PLACE.

g. ALL PROPOSED TURF AREAS, ONCE CONSTRUCTED TO FINAL GRADE SHALL BE SEEDED/ SODDED WITHIN 5 DAYS AFTER FINAL GRADING OF THE SITE WHERE SHOWN ON THE PLAN. SHOULD WEATHER CAUSE DELAYS IN EARTHWORK OPERATIONS, ADDITIONAL SILTATION CONTROL MEASURES MAY BE REQUIRED.

h. ANY DISTURBED AREAS WHICH WILL REMAIN UNWORKED FOR 30 DAYS OR MORE SHALL BE STABILIZED WITH SEEDING AND MULCHING PER SPECIFICATIONS WITHIN 5 DAYS. IF SEASONAL CONDITIONS PROHIBIT SEEDING, MULCHING OR MATTING SHALL BE USED.

i. INSPECTION OF SILTATION CONTROL DEVICES SHALL TAKE PLACE ONCE EVERY SEVEN DAYS AND WITHIN 24 HOURS OF ANY HEAVY RAIN EVENT. ANY SILTATION CONTROL IN NEED OF REPAIR SHALL OCCUR IMMEDIATELY.

j. ALL GRADING OPERATIONS ARE SUBJECT TO THE RECOMMENDATIONS OF THE GEOTECHNICAL ENGINEERING REPORT IF ONE HAS BEEN PREPARED FOR THIS PROJECT.

k. SEDIMENTATION CONTROLS SHALL ONLY BE REMOVED AFTER THE SITE IS COMPLETELY STABILIZED, VEGETATION IS WELL ESTABLISHED, AND ALL PAVEMENT AREAS ARE INSTALLED.

11.) PLANNED RESPONSE TO LOSS OF CONTAINED SEDIMENT

a. B.M.P.'s SHALL BE REPAIRED AND/OR REPLACED IMMEDIATELY, AS REQUIRED, TO STABILIZE SITE AND CONTAIN SEDIMENT LADEN RUNOFF. OFFSITE AREAS SHALL BE REVIEWED FOR EXTENT OF IMPACT FROM B.M.P. FAILURE. PERMIT HOLDER SHALL BE REQUIRED TO PROVIDE DOCUMENTATION OF THE B.M.P. MEASURES INSTALLED AND SCHEDULED MAINTENANCE AND REPAIRS. DOCUMENTATION OF ACTIONS AND MANDATORY REPORTING ARE REQUIRED TO BE PROVIDED TO CITY OF O'FALLON DEPARTMENT OF PUBLIC WORKS.

b. CONTRACTOR IS RESPONSIBLE FOR INSTALLING ADDITIONAL B.M.P. MEASURES BEYOND THOSE SHOWN IF CONDITIONS DICTATE OR CURRENT MEASURES ARE INSUFFICIENT.

12.) DESCRIPTION OF PERMANENT B.M.P.'s TO REMAIN AFTER CONSTRUCTION

a. STORM DRAINS – THE DEVELOPMENT WILL BE SERVED BY A STORMWATER SYSTEM CONSISTING OF REINFORCED CONCRETE PIPE (RCP) AND GRATED INLETS. THE STORM SYSTEM WILL CONVEY STORMWATER TO A CULVERT SEWER SYSTEM WITHIN DARDENNE CREEK WATERSHED. THE STORM DRAINAGE SYSTEM DESIGNATED AS "PRIVATE" SHALL BE OPERATED AND MAINTAINED BY THE OWNER. THE STORM DRAINAGE SYSTEM DESIGNATED AS "PUBLIC" SHALL BE MAINTAINED BY THE CITY OF O'FALLON UPON DEDICATION OF THE SEWERS TO THE CITY.

b. TURF AREAS – TURF AREAS SHALL BE MAINTAINED TO INSURE SITE AREAS REMAIN STABILIZED UPON COMPLETION OF CONSTRUCTION ACTIVITIES.

c. PAVED AREAS AND WALKWAYS – AREAS SUBJECT TO FOOT AND VEHICLE TRAFFIC SHALL BE PAVED AND KEPT IN GOOD REPAIR FOLLOWING COMPLETION OF CONSTRUCTION ACTIVITIES. MAINTENANCE SHALL BE THE OWNER'S RESPONSIBILITY.

13.) TABLE OF BEST MANAGEMENT PRACTICE QUANTITIES

ITEM	QUANTITY	STATUS
SILT FENCE	790 l.f.	TEMPORARY
INLET PROTECTION	6	TEMPORARY
WASHDOWN AREA	1	TEMPORARY
CONSTRUCTION PARKING	270 s.y.	TEMPORARY
CONSTRUCTION ENTRANCE	125 s.y.	TEMPORARY

* NOTE: CONTRACTOR RESPONSIBLE FOR VERIFYING ALL QUANTITIES.

14.) ANY LAND CLEARING, CONSTRUCTION, OR DEVELOPMENT INVOLVING THE MOVEMENT OF EARTH SHALL BE IN ACCORDANCE WITH THE STORM WATER POLLUTION PREVENTION PLAN, AND THE PERSON ISSUED A LAND DISTURBANCE PERMIT ASSUMES AND ACKNOWLEDGES RESPONSIBILITY FOR COMPLIANCE WITH THE CITY OF O'FALLON EROSION AND STORM WATER RUNOFF CONTROL AND THE APPROVED STORM WATER POLLUTION PLAN AT THE SITE OF THE PERMITTED ACTIVITY.

15.) DESCRIPTION OF B.M.P.'s TO PREVENT POTENTIAL POLLUTANTS
(CONSTRUCTION WASTES, TOXIC OR HAZARDOUS SUBSTANCES, PETROLEUM PRODUCTS, PESTICIDES, HERBICIDES, SITE LITTER, SANITARY WASTES, ETC.)

a. SOLID NON–HAZARDOUS CONSTRUCTION WASTE – DISPOSE OF IN TRASH DUMPSTERS OR APPROVED EQUIVALENT IN A LOCATION APPROVED BY THE OWNER. POTENTIALLY SOLUBLE OR LEACHABLE SOLID WASTE SHALL BE STORED OFF THE GROUND AND IN COVERED LEAK–PROOF CONTAINERS. SOLID WASTE SHALL BE PROPERLY DISPOSED OF OFF–SITE ON A REGULAR BASIS.

b. HAZARDOUS WASTE – HAZARDOUS WASTE SHALL BE SEGREGATED FROM NON–HAZARDOUS CONSTRUCTION SITE DEBRIS. LIQUID OR SEMI–LIQUID HAZARDOUS WASTE SHALL BE STORED IN APPROPRIATE CONTAINERS (CLOSED DRUMS OR SIMILAR) AND SHALL BE KEPT UNDER COVER. GRANULAR, SOLUBLE OR LEACHABLE HAZARDOUS WASTE MATERIALS SHALL BE STORED OFF THE GROUND AND IN COVERED LEAK–PROOF CONTAINERS. THE OWNER SHALL PROPERLY APPROVE ANY HAZARDOUS WASTE STORAGE AREA LOCATIONS.

c. HAZARDOUS WASTE SHALL BE PROPERLY DISPOSED OF OFF–SITE ON A REGULAR BASIS BY A REPUTABLE, LICENSED HAZARDOUS WASTE HAULER.

d. IT IS NOT THE INTENT OF THIS SWPPP TO SUPERSEDE OR REPLACE NORMAL SITE ASSESSMENT AND REMEDIATION PROCEDURES CONCERNING HAZARDOUS MATERIALS. SIGNIFICANT SPILLS AND/OR CONTAMINATION WARRANT AN IMMEDIATE RESPONSE BY TRAINED PROFESSIONALS. SUSPECTED JOB SITE CONTAMINATION SHOULD IMMEDIATELY BE REPORTED TO REGULATORY AUTHORITIES AND PROTECTIVE MEASURES TAKEN.

e. FRESH CONCRETE WASTE AND CONCRETE EQUIPMENT WASHDOWNS SHALL BE CONTAINED AND SHALL BE STORED AWAY FROM DRAINAGE DITCHES, SWALES AND DRAINAGE STRUCTURES. WHERE APPROPRIATE, CONTAINMENT BERMS SHALL BE PLACED AROUND WASTE STORAGE AREAS.

f. ON–SITE FUELING FACILITIES ARE REQUIRED TO ADHERE TO ALL APPLICABLE FEDERAL AND STATE REGULATIONS CONCERNING STORAGE AND DISPENSERS.

g. PROVISIONS SHALL BE MADE SO THAT A SUFFICIENT NUMBER OF TEMPORARY TOILET FACILITIES ARE AVAILABLE TO SERVE THE NUMBER OF WORKERS ON–SITE.

16.) SEDIMENT SHALL BE WASHED FROM ALL VEHICLES AT WASH DOWN STATION PRIOR TO LEAVING THE SITE. NO TRACKING OF MUD ONTO ROADS SHALL BE ALLOWED.

17.) LIST OF EPA ALLOWABLE NON–STORM WATER DISCHARGES (JAN. 2011). THE FOLLOWING NON–STORM WATER DISCHARGES ARE AUTHORIZED BY THE EPA PROVIDED IT HAS BEEN DETERMINED BY THE PERMITTEE THAT THEY ARE NOT SIGNIFICANT CONTRIBUTORS OF POLLUTANTS TO THE MUNICIPAL SEPARATE STORM SEWER SYSTEM (MS4). IMPLEMENTATION OF POLLUTION PREVENTION MEASURES FOR NON–STORM WATER DISCHARGES IS REQUIRED FOR SIGNIFICANT CONTRIBUTORS.

a.) WATER LINE FLUSHING
b.) LANDSCAPE IRRIGATION
c.) DIVERTED STREAM FLOWS
d.) RISING GROUND WATERS
e.) UNCONTAMINATED GROUND WATER INFILTRATION
f.) UNCONTAMINATED PUMPED GROUND WATER
g.) DISCHARGE FROM POTABLE WATER SOURCES
h.) FOUNDATION DRAINS
i.) AIR CONDITIONING CONDENSATION
j.) IRRIGATION WATER, SPRINGS
k.) WATER FROM CRAWL SPACE PUMPS
l.) FOOTING DRAINS
m.) LAWN WATERING
n.) INDIVIDUAL RESIDENT CAR WASHING
o.) FLOW FROM RIPARIAN HABITATS & WETLANDS
p.) DECHLORINATED SWIMMING POOL DISCHARGE (AS DEFINED AT 40 CFR 35.2005(20))
q.) STREET WASH WATER
r.) RESIDENTIAL BUILDING WASH WATERS (WITHOUT DETERGENTS)

18.) ANTICIPATED DEWATERING METHODS (SUBJECT TO CONTRACTOR'S ANTICIPATED MEANS & METHODS)

a.) CONTRACTOR TO USE CARE WHEN PUMPING WATER FROM CONSTRUCTION EXCAVATIONS AND ATTENTION MUST BE PAID TO THE FINAL DESTINATION OF THIS WATER. SEDIMENT CONTAINED IN THE WATER MUST FIRST BE REMOVED. ONCE IT IS PUMPED OUT OF THE EXCAVATION, THIS WATER MUST THEN BE PREVENTED FROM ERODING SOIL.

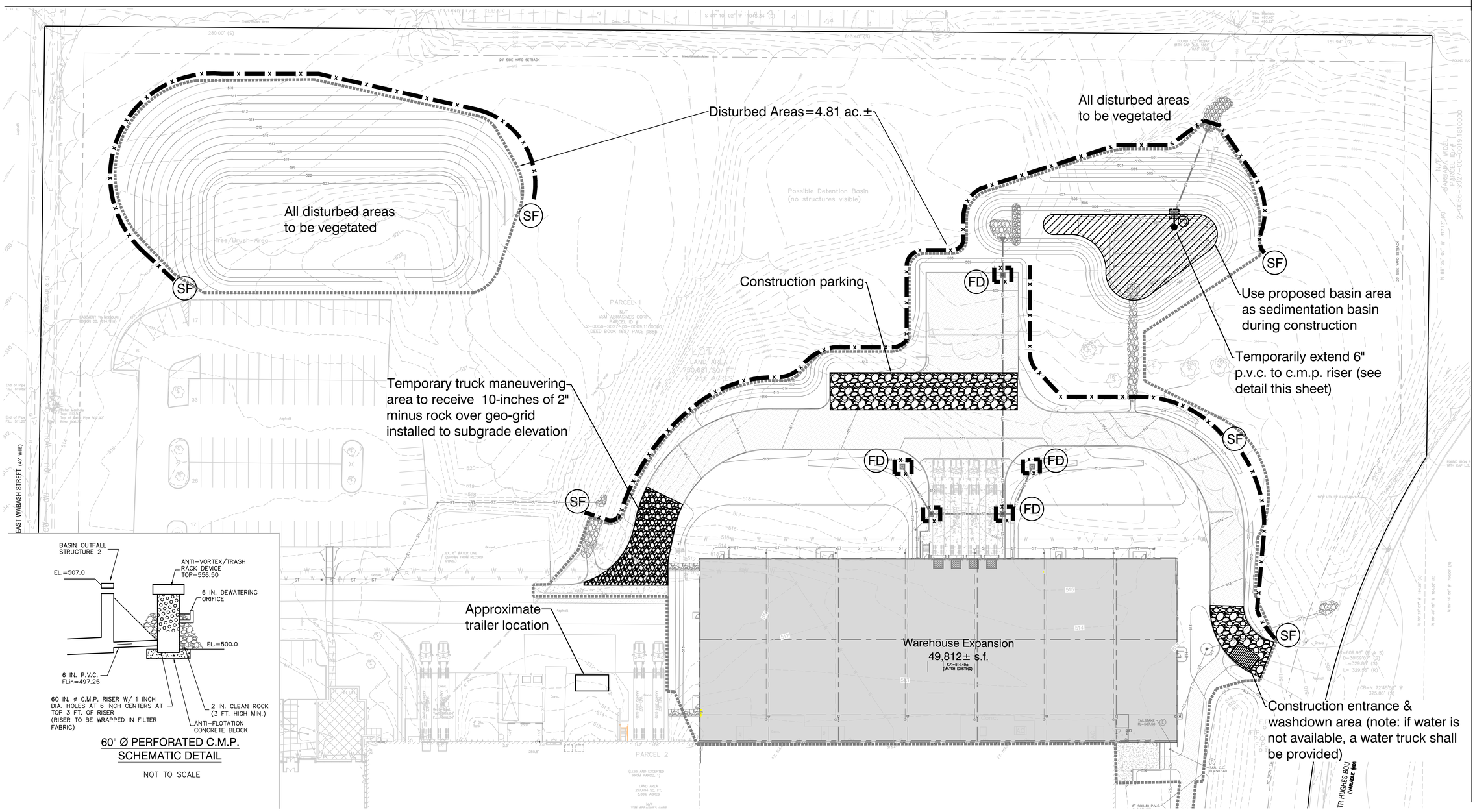
b.) AN OIL/WATER SEPARATOR OR OTHER SUITABLE FILTRATION METHOD WILL BE REQUIRED PRIOR TO DISCHARGE IF THE COLLECTED WATER HAS BEEN CONTAMINATED WITH PETROLEUM PRODUCTS, OIL OR GREASE. A LICENSED TRANSPORTER WILL BE REQUIRED TO BOTH CONTAIN AND TO TRANSPORT THE COLLECTED WATER AWAY FROM THE CONSTRUCTION SITE IF IT HAS BEEN CONTAMINATED BY HAZARDOUS OR TOXIC CHEMICALS. IN THE CASE OF CONTAMINATED WATER BEING TRUCKED FROM THE CONSTRUCTION SITE, THE REQUIREMENTS OF FEDERAL, STATE AND LOCAL AGENCIES MUST BE ADHERED TO.

c.) THE DEWATERING METHODS OF EXCAVATED AREAS ANTICIPATED TO BE USED TO REMOVE WATER FROM THE CONSTRUCTION SITE ARE THE FOLLOWING:
1. BUCKET CONNECTED TO SPECIFIC PIECES OF CONSTRUCTION EQUIPMENT TO MECHANICALLY SCOOP THE WATER FROM THE EXCAVATIONS
2. PUMPING OR SIPHONING WATER FROM THE COLLECTION SITES
3. THE USE OF A GRAVITY DRAIN THROUGH CHANNELS

EROSION CONTROL LEGEND

SYMBOL	B.M.P.
CE	CONSTRUCTION ENTRANCE & PARKING
SF	SILT FENCE
FD	FABRIC DROP

GRAPHIC SCALE
30 0 15 30 60
(IN FEET)
1 inch = 30 ft.



60" Ø PERFORATED C.M.P.
SCHEMATIC DETAIL

NOT TO SCALE

M+H ARCHITECTS

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Structural:
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636-530-7770
Corporate License No.: 001244

MEP:
(Design - Build)

WAREHOUSE ADDITION & RENOVATIONS FOR:
VSM
1012 E WABASH ST
O'FALLON, MO 63366

STATE OF MISSOURI
PAUL K. BOYER
NUMBER E-28258
PROFESSIONAL ENGINEER
03/21/22

PAUL K. BOYER, P.E. E-28258
CIVIL ENGINEER
CEDC LICENSE NO.: 2003004674

DESCRIPTION:

01/05/22	Construction Site Plan Submittal
01/14/22	Permit / Bid Set
02/24/22	City comments
03/21/22	City comments

Issue Date:	01/14/22
Job Number:	1981.1
Drawn By:	PKB
Checked By:	PKB
Drawing Title:	

Storm Water Pollution Prevention Plan

C11.0