2021 RJ MATTHEWS PLANT ADDITION

CITY OF MASSILLON
STARK COUNTY, OHIO

INDEX OF SHEETS:

1	TITLE SHEET
2	ABBREVIATIONS AND LEGEND
3	EXISTING CONDITIONS AND DEMOLITION PLAN
4	SITE PLAN
5	GRADING AND DRAINAGE PLAN
6	TYPICAL DETAILS AND NOTES
7	STORMWATER PREVENTION PLAN – COVER SHEET
8	STORMWATER PREVENTION PLAN – SITE PLAN
9	STORMWATER PREVENTION PLAN – DETAILS

SITE INFORMATION:

ADDRESS: 2780 RICHVILLE DRIVE
MASSILLON, OHIO 44646

PROPERTY:
PARCEL #10006004 –5.82± AC
PARCEL #701287 – 1.96± AC

ZONE: I1 – LIGHT INDUSTRIAL

SETBACKS (BUILDING) REQUIRED MINIMUM

FRONT:	60 FT
REAR:	N/A
SIDE:	N/A

TOTAL EXISTING PARKING:	95 SPACES
TOTAL EMPLOYEES:	75 EMPLOYEES
TOTAL REQUIRED PARKING SPACES:	81 SPACES
TOTAL PROPOSED PARKING:	89 SPACES

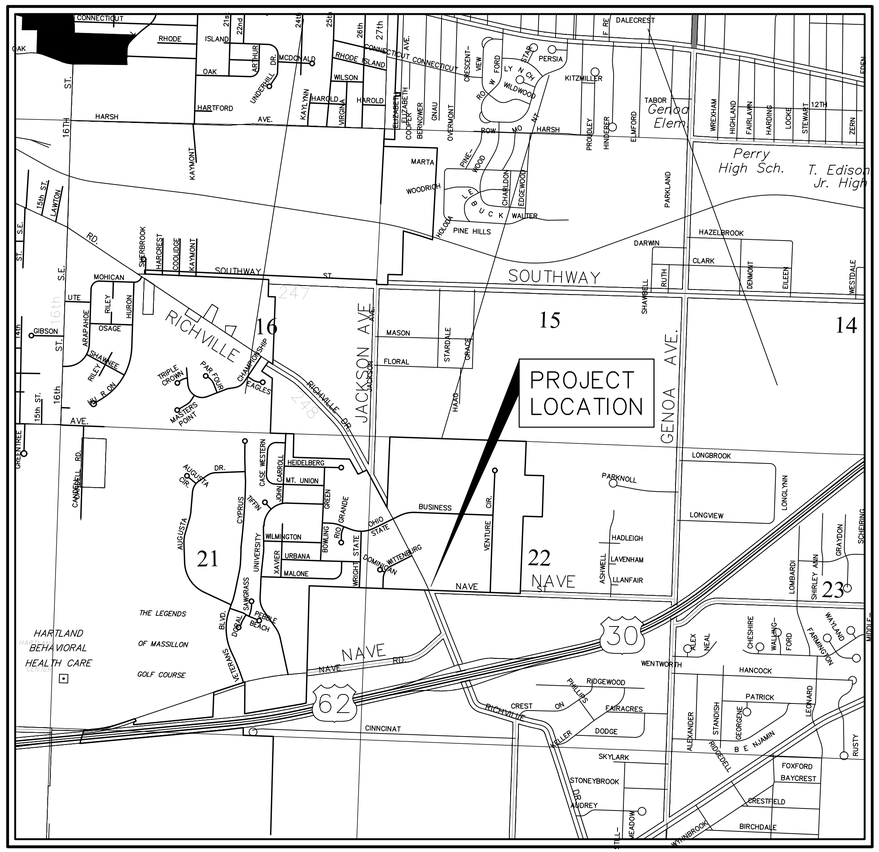
TOTAL PERVIOUS AREA: ±2.56
TOTAL BUILDING AREA: ±1.64
TOTAL IMPERVIOUS AREA: ±2.43

2 WORKING DAYS

BEFORE YOU DIG

CALL TOLL FREE 800–362–2764

OHIO UTILITIES PROTECTION SERVICE



LOCATION MAP

SCALE: NTS

N

APPROVALS BY:

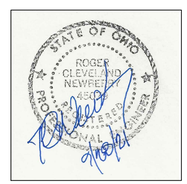
APPROVED BY THE MASSILLON CITY ENGINEER THIS _____ DAY OF _____, 20__.

_____
JASON POPIEL, PE

ONLY APPROVED SIGNED PLANS BY THE CITY ENGINEER ARE TO BE USED FOR CONSTRUCTION

PARTNERS ENVIRONMENTAL CONSULTING, INC.

_____ DATE_____
ROGER C. NEWBERRY, P.E.



NOTE:

ANY WORK PERFORMED IN THE RIGHT OF WAY IS TO BE INSPECTED BY THE CITY OF MASSILLON ENGINEERING DEPARTMENT.

DEVELOPER:
IVAN WEAVER CONSTRUCTION, INC.
124 N. MILL ST.
P.O. BOX 258
FREDRICKSBURG, OHIO 44627
CONTACT: MARK YODER
PH: 330–695–3461
MARKY@WEAVERCONSTRUCTION.COM

COVER SHEET

REVISIONS

0	COUNTY/CITY REVIEW	9/28/2021
1		
2		
3		
4		
5		
6		

PARTNERS
31100 Solon Road, Suite G
Solon, Ohio 44139
PH: 1(800)763-1363

COVER SHEET
2021 RJ MATTHEWS PLANT ADDITION
LOCATED IN THE CITY OF MASSILLON
STARK COUNTY, OHIO
FOR: IVAN WEAVER CONSTRUCTION, INC.

DRAWN BY: CM
CHECKED BY: RCN
DATE 08-12-2021
SHEET 1 OF 9
PROJ.# 2156.01

C:\Users\Corinna\OneDrive - Partners Environmental\Documents\RJ Mathews\00-Title Sheet.dwg 9/28/2021

SYMBOLS

EXISTING

- 2-2A CATCH BASIN
- No. 3 CATCH BASIN
- ROUND CATCH BASIN
- ROUND INLET
- FLOOR DRAIN
- CLEAN OUT
- DOWNSPOUT
- YARD DRAIN
- TRENCH DRAIN
- STORM MANHOLE
- SANITARY MANHOLE
- COMBINATION MANHOLE
- TELEPHONE LIGHT POLE
- TELEPHONE LIGHT POWER POLE
- TELEPHONE LINE MARKER
- TELEPHONE MANHOLE
- TELEPHONE POLE
- TELEPHONE POWER POLE
- TELEPHONE VAULT
- TELEPHONE BOOTH
- PAY TELEPHONE
- GAS LINE MARKER
- GAS LINE VENT
- GAS METER
- GAS MANHOLE
- GAS VALVE
- GAS TEST WIRE
- GAS WELL
- WATER GATE VALVE
- WATER LINE MARKER
- WATER METER
- WATER MANHOLE
- FIRE HYDRANT ASSEMBLY
- WATER SERVICE STOP
- WATER WELL
- FIRE DEPARTMENT CONNECTION
- SPRINKLER HEAD
- CEI MARKER
- CPP MARKER
- ELECTRIC BOX
- ELECTRIC METER
- ELECTRIC MANHOLE
- ELECTRIC MARKER
- ELECTRIC VAULT
- PULL BOX–JUNCTION BOX
- AIR CONDITION UNIT
- TRAFFIC SIGNAL BOX
- STEAM MANHOLE
- SEPTIC TANK
- MONITORING WELL
- POWER POLE
- LIGHT POLE
- LIGHT POWER POLE
- GUY WIRE
- MAIL BOX
- PAPER BOX
- OIL TANK
- OIL WELL
- PARKING METER
- TREE
- EVERGREEN TREE
- PINE TREE
- SHRUB
- STUMP
- SIGN
- TO BE REMOVED
- PK NAIL FOUND
- IRON PIN FOUND
- MONUMENT BOX
- BOLLARD
- SOIL BORING
- PROPERTY LINE MARKER
- OWNERSHIP HOOK
- FLAGPOLE
- YARD LIGHT
- FLOW ARROW
- UNKNOWN MANHOLE
- UNKNOWN OBJECT
- UNKNOWN POLE
- UNKNOWN UTILITY VALVE
- RAILROAD CROSSING
- RAILROAD GATE
- RAILROAD SIGNAL
- LANE ARROW LEFT
- LANE ARROW LEFT THRU
- LANE ARROW LEFT THRU RIGHT
- LANE ARROW RIGHT THRU
- LANE ARROW RIGHT
- LANE ARROW THRU
- "ONLY" PAVEMENT MARKING
- "STOP" PAVEMENT MARKING
- "SCHOOL" PAVEMENT MARKING
- RR CROSSING PAVEMENT MARKING
- ACCESSIBLE PARKING SYMBOL

PROPOSED

- 2-2A CATCH BASIN
- No. 3 CATCH BASIN
- ROUND CATCH BASIN
- FLOOR DRAIN
- TRENCH DRAIN
- STORM MANHOLE
- STORM MANHOLE ADJUST
- SANITARY MANHOLE
- SANITARY MANHOLE ADJUST TO GRADE
- COMBINATION MANHOLE
- TELEPHONE MANHOLE
- ELECTRIC BOX
- ELECTRIC MANHOLE
- ELECTRIC VAULT
- PULL BOX–JUNCTION BOX
- TELEPHONE VAULT
- LIGHT POLE
- POWER POLE
- TELEPHONE POLE
- TELEPHONE LIGHT POLE
- TELEPHONE LIGHT POWER POLE
- TELEPHONE POWER POLE
- GAS VALVE
- WATER GATE VALVE
- WATER METER
- WATER MANHOLE
- FIRE HYDRANT ASSEMBLY
- WATER SERVICE STOP
- WATER WELL
- SPRINKLER HEAD
- SEPTIC TANK
- PAPER BOX
- PARKING METER
- MAIL BOX
- TREE
- EVERGREEN TREE
- SHRUB
- SIGN
- PK NAIL SET
- MONUMENT BOX
- LANE ARROW LEFT
- LANE ARROW LEFT THRU
- LANE ARROW LEFT THRU RIGHT
- LANE ARROW RIGHT THRU
- LANE ARROW RIGHT
- LANE ARROW THRU
- "ONLY" PAVEMENT MARKING
- "STOP" PAVEMENT MARKING
- "SCHOOL" PAVEMENT MARKING
- RR CROSSING PAVEMENT MARKING
- ACCESSIBLE PARKING SYMBOL

DETAIL NUMBER
SHEET DETAIL TAKEN FROM
SHEET DETAIL IS FOUND ON

SECTION NUMBER
SHEET SECTION TAKEN FROM
SHEET SECTION IS FOUND ON

STANDARD ABBREVIATIONS

ABUT	ABUTMENT
AB	ANCHOR BOLT
AC	ACRE (S)
ACCESS	ACCESSIBLE
A.C.	AIR CONDITIONER (ING)
AD	AREA DRAIN
ADD'L	ADDITIONAL
ADJ	ADJUST / ADJACENT
AFF	ABOVE FINISHED FLOOR
AFN	AUDITORS FILE NUMBER
AGGR	AGGREGATE
ALUM	ALUMINUM
ALT	ALTERNATE
APN	AUDITORS PARCEL NUMBER
APPROX	APPROXIMATE
ARCH	ARCHITECTURAL
ASPH	ASPHALT
AVE	AVENUE
AW	ACID WASTE
@	AT
B-?	BORING
B/C	BACK OF CURB
BL	BASE LINE
BETWN	BETWEEN
BFF	BELOW FINISHED FLOOR
BFP	BACK FLOW PREVENTER
BOP	BEGINNING OF PROJECT
BIT	BITUMINOUS
BLDG	BUILDING
BLVD	BOULEVARD
BM	BENCHMARK
BOL	BOLLARD
BOTT	BOTTOM
BR	BRICK
BRG	BEARING
BSMT	BASEMENT
CAB	CABINET
CATV	CABLE TELEVISION
CALC	CALCULATED
CB	CATCH BASIN
CEM	CEMENT
CF	CUBIC FOOT / FEET
CH	CHORD LENGTH
CH.B	CHORD BEARING
CHW	CHILLED WATER
CIP	CAST-IN-PLACE
CJ	CONTROL JOINT
CL	CENTER LINE
CLEAR	CLEARANCE
CM	CONSTRUCTION MANAGER
CMP	CORRUGATED METAL PIPE
CO	CLEANOUT
COL	COLUMN
COMB	COMBINED SEWER
CONC	CONCRETE
CONST	CONSTRUCTION
CONT	CONTINUOUS
CONTN	CONTRACTION
CONTR	CONTRACTOR
COORD	COORDINATE
CPP	CORRUGATED POLYETHYLENE PIPE
CR	CONDENSATE RETURN
CTE	CONNECT TO EXISTING
CTW	COOLING TOWER WATER
CTR	CENTER
CY	CUBIC YARD (S)
D	DEED
DATUR	DEPICTED ACCORDING TO UTILITY RECORD
DC	DOUBLE CHECK
DCDC	DOUBLE CHECK DETECTOR CHECK
DEMO	DEMOLISH / DEMOLITION
DET	DETAIL
DF	DRINKING FOUNTAIN
DIA	DIAMETER
DIAG	DIAGONAL
DIM	DIMENSION
DIP	DUCTILE IRON PIPE
DOM	DOMESTIC
DN	DOWN
DR	DRIVE
DS	DOWNSPOUT
DWG	DRAWING
E	EAST
EA	EACH
EF	EACH FACE
EL	ELEVATION
EJ	EXPANSION JOINT
ELEC	ELECTRIC
EOP	END OF PROJECT
EQ	EQUAL
ESMT	EASEMENT
EX	EXISTING
EW	EACH WAY
EXPAN	EXPANSION
EXT	EXTERIOR

FD	FOUND
FDC	FIRE DEPARTMENT CONNECTION
FDN	FOUNDATION
FIN	FINISHED
FL	FLOOR
FM	FORCE MAIN
FO	FIBER OPTIC
F.O.	FUEL OIL
FP	FIRE PROTECTION
FPHB	FREEZE-PROOF HOSE BIB
FT	FEET / FOOT
FTG	FOOTING
FTR	FOOTER
G	GUTTER / GAS
GAL	GALLON
GALV	GALVANIZED
GC	GENERAL CONTRACTOR
GEN	GENERAL
GND	GROUND
GR	GRADE
HB	HOSE BIB
HDCP	HANDICAPPED
HDPE	HIGH DENSITY POLYETHYLENE
HDWL	HEADWALL
HORIZ	HORIZONTAL
HP	HIGH POINT
HPS	HIGH PRESSURE STEAM
HR	HOUR
HT	HEIGHT
HTWR	HIGH TEMPERATURE HOT WATER RETURN
HTWS	HIGH TEMPERATURE HOT WATER SUPPLY
HVAC	HEATING, VENTILATING & AIR CONDITIONING
HYD	HYDRANT
HWR	HOT WATER RETURN
HWS	HOT WATER SUPPLY
HWY	HIGHWAY
I	INTERSTATE ROUTE
I.	IRON
IB	INLET BASIN
ID	INSIDE DIAMTER
IN	INCH
INT	INTERSECTION
INV	INVERT
IPF	IRON PIN FOUND
IPS	IRON PIN SET
JT	JOINT
L/A	LIMITED ACCESS
L/S	LANDSCAPE
LBS	POUNDS
LF	LINEAR FOOT / FEET
LG	LONG
LT	LEFT
LOC	LOCATION
LP	LIGHT POLE / LOW POINT
LPS	LOW PRESSURE STEAM
LSM	LOW STRENGTH MORTAR
MATL	MATERIAL
MAX	MAXIMUM
MB	MAIL BOX
MBA	MICHAEL BENZA AND ASSOCIATES, INC
MECH	MECHANICAL
MEAS	MEASURED
MFR	MANUFACTURER
MIN	MINIMUM / MINUTE
MISC	MISCELLANEOUS
MH	MANHOLE
MOD	MODIFIED
MON. BOX	MONUMENT BOX
MSL	MEAN SEA LEVEL
MW	MONITORING WELL
N/A	NOT APPLICABLE
N	NORTH
NVD	NATIONAL VERTICAL DATUM
NE	NORTHEAST
NIC	NOT IN CONTRACT
NO	NUMBER
NOM	NOMINAL
NTS	NOT TO SCALE
NW	NORTHWEST
OA	OVERALL
OC	ON CENTER
OD	OUTSIDE DIAMETER
ODOT	OHIO DEPARTMENT OF TRANSPORTATION
OH	OVERHEAD
OL	ORIGINAL LOT
OPNG	OPENING
OPP	OPPOSITE
OR	OFFICIAL RECORD
OUPS	OHIO UTILTY PROTECTION SERVICES

PC	POINT OF CURVATURE
PCF	POUNDS PER CUBIC FOOT
PERF	PERFORATED
PF	IRON PIPE FOUND
PG	PAGE
PI	POINT OF INTERSECTION
PIV	POST INDICATOR VALVE
PL	PROPERTY LINE
PLBG	PLUMBING
POB	POINT OF BEGINNING
POC	POINT OF COMMENCEMENT
PP	POWER POLE
PPN	PERMANENT PARCEL NUMBER\
PPOB	PRINCIPAL PLACE OF BEGINNING
PRV	PRESSURE REGULATING VALVE
PSF	POUNDS PER SQ FT
PSI	POUNDS PER SQ IN
PROP	PROPOSED
PT	POINT OF TANGENCY
PVC	POLYVINYL CHLORIDE
PVMT	PAVEMENT
PWR	POWER
QTY	QUANTITY
QUAL	QUALITY / QUALIFY
R	RADIUS / RANGE
(R)	RETURN
RCP	REINFORCED CONC PIPE
RD	ROAD
REBAR	REINFORCING BAR
REC	RECORDED
REF	REFER / REFERENCE
REINF	REINFORCE / REINFORCED
RELOC	RELOCATE /RELOCATED
REQ'D	REQUIRED
RET	RETURN
REV	REVISION / REVISED
R/W	RIGHT-OF-WAY
RND	ROUND
RPP	REDUCED PRESSURE PRINCIPLE
RRF	RAILROAD SPIKE FOUND
RRS	RAILROAD SPIKE SET
RT	RIGHT
R/W	RIGHT-OF-WAY
S	SOUTH
(S)	SUPPLY
SAN	SANITARY
SCHED	SCHEDULE
SE	SOUTHEAST
SEC	SECTION / SECOND
SHT	SHEET
SIM	SIMILAR
SOG	SLAB ON GRADE
SPA	SPACE
SPEC	SPECIFICATION
SQ	SQUARE
SR	STATE ROUTE
SQ FT	SQUARE FEET / FOOT
SQ IN	SQUARE INCH /INCHES
SQ YD	SQUARE YARD (S)
ST	STEAM
STA	STATION
STD	STANDARD
STL	STEEL
STM	STORM
STRUCT	STRUCTURAL
SW	SOUTHWEST / SWALE
ST	STREET
SURF	SURFACE
SYM	SYMMETRICAL
T&B	TOP & BOTTOM
T/C	TOP OF CURB
T/G	TOP OF GRATE
T/W	TOP OF WALL
TBD	TO BE DETERMINED
TE	THICKENED EDGE
TEMP	TEMPORARY
TEL	TELEPHONE
THK	THICK / THICKNESS
TYP	TYPICAL
UG	UNDERGROUND
UNO	UNLESS NOTED OTHERWISE
VAR	VARIES
VC	VERTICAL CURVE
VCP	VITRIFIED CLAY PIPE
VERT	VERTICAL
VIF	VERIFY IN FIELD
VOL	VOLUME
VPC	VERTICAL POINT OF CURVE
VPI	VERTICAL POINT OF INTERSECTION
VPT	VERTICAL POINT OF TANGENCY
W	WEST / WATER
W/	WITH
W/O	WITHOUT
WD	WOOD
WT	WEIGHT
WWF	WOVEN WIRE FABRIC
XFMR	TRANSFORMER
YD	YARD DRAIN

LINETYPES

- EX. ELEC.
- EX. FENCE
- EX. FIBER OPTIC
- EX. GAS
- EX. SAN.
- EX. STM.
- EX. STEAM
- EX. TELE.
- EX. WATER
- EX. GUARDRAIL
- EX. RIGHT OF WAY (R/W)
- PROP. ELEC.
- PROP. FENCE
- PROP. FIBER OPTIC
- PROP. GAS
- PROP. SAN.
- PROP. STM.
- PROP. STEAM
- PROP. TELE.
- PROP. WATER
- PROP. GUARDRAIL
- PROP. RIGHT OF WAY (R/W)

HORIZONTAL SCALE 1" = 30'
0 15 30 60

REVISIONS
1 COUNTY/CITY REVIEW 9/28/2021

PARTNERS
31100 Solon Road, Suite G
Solon, Ohio 44139
PH: 1(800)763-1363

STATE OF OHIO
ROGER CLEVELAND NEWBERRY
45058
REGISTERED PROFESSIONAL ENGINEER
[illegible]

ABBREVIATIONS AND LEGEND
2021 RJ MATTHEWS PLANT ADDITION
LOCATED IN THE CITY OF MASSILLON
STARK COUNTY, OHIO
FOR: IVAN WEAVER CONSTRUCTION, INC.

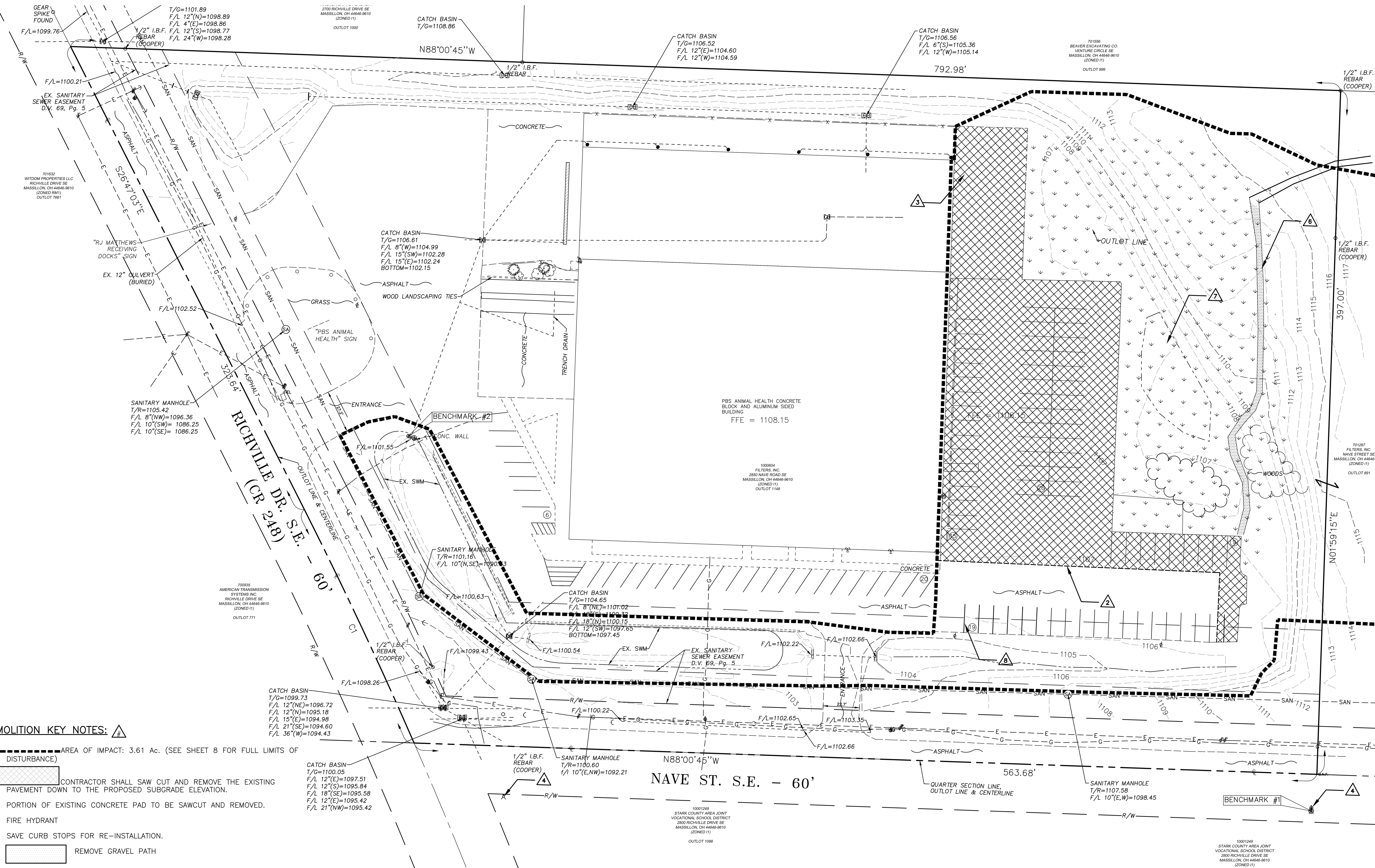
DRAWN BY: CM
CHECKED BY: RN
DATE 08-12-2021

SHEET 2 OF 9

PROJ.# 2156.01

NOTES AND LEGEND

C:\Users\Corinna\OneDrive – Partners Environmental\Documents\RJ Mathews\02-Legend and Notes.dwg 9/28/2021



DEMOLITION KEY NOTES:

1. ▬▬▬▬ AREA OF IMPACT: 3.61 Ac. (SEE SHEET 8 FOR FULL LIMITS OF DISTURBANCE)
2. ▨ CONTRACTOR SHALL SAW CUT AND REMOVE THE EXISTING PAVEMENT DOWN TO THE PROPOSED SUBGRADE ELEVATION.
3. PORTION OF EXISTING CONCRETE PAD TO BE SAWCUT AND REMOVED.
4. FIRE HYDRANT
5. SAVE CURB STOPS FOR RE-INSTALLATION.
6. ▒ REMOVE GRAVEL PATH
7. SWAMP PER SURVEY. REMOVE EXISTING VEGETATION FROM THIS AREA. REMOVE EXISTING SATURATED SOILS. PROVIDE POSITIVE DRAINAGE TO ALLOW AREA TO DRY PRIOR TO FURTHER EXCAVATION OR FILL PLACEMENT.
8. REMOVE EXISTING STRIPING.
9. ↓ CLEAR ALL VEGETATION IN AREA INDICATED. GRUB AND REMOVE ALL ROOT SYSTEMS. STRIP TOPSOIL AND STOCKPILE ON ADJACENT LOT TO THE EAST.

BENCHMARK:	BENCHMARK #1:	BENCHMARK #2:
PER099 – STANDARD COUNTY MONUMENT FOUND ON NAVE ST. APPROX. 1500' EAST OF RICHVILLE DR. – SE CORNER NW QUARTER SECTION 22	THE LETTERS "LLER" IN MUELLER ON HYDRANT ON SOUTH SIDE FLANGE @ SE PROPERTY CORNER	CHISELED SQUARE IN CONCRETE HEADWALL @ NE CORNER @ WEST SIDE OF BLDG NEAR ENTRANCE DRIVE SOUTH OF SOUTH EDGE OF PVMT
ELEV. = 1144.25	ELEV. = 1113.17	ELEV. = 1104.73

EXISTING CONDITIONS AND DEMO PLAN

HORIZONTAL SCALE 1" = 30'
0 15 30 60

REVISIONS

1	COUNTY/CITY REVIEW 9/28/2021
2	
3	
4	
5	
6	
7	

PARTNERS
31100 Solon Road, Suite G
Solon, Ohio 44139
PH: 1(800)763-1363

STATE OF OHIO
ROGER CLEVELAND NEWBERRY
45[illegible]
REGISTERED PROFESSIONAL ENGINEER
[illegible]

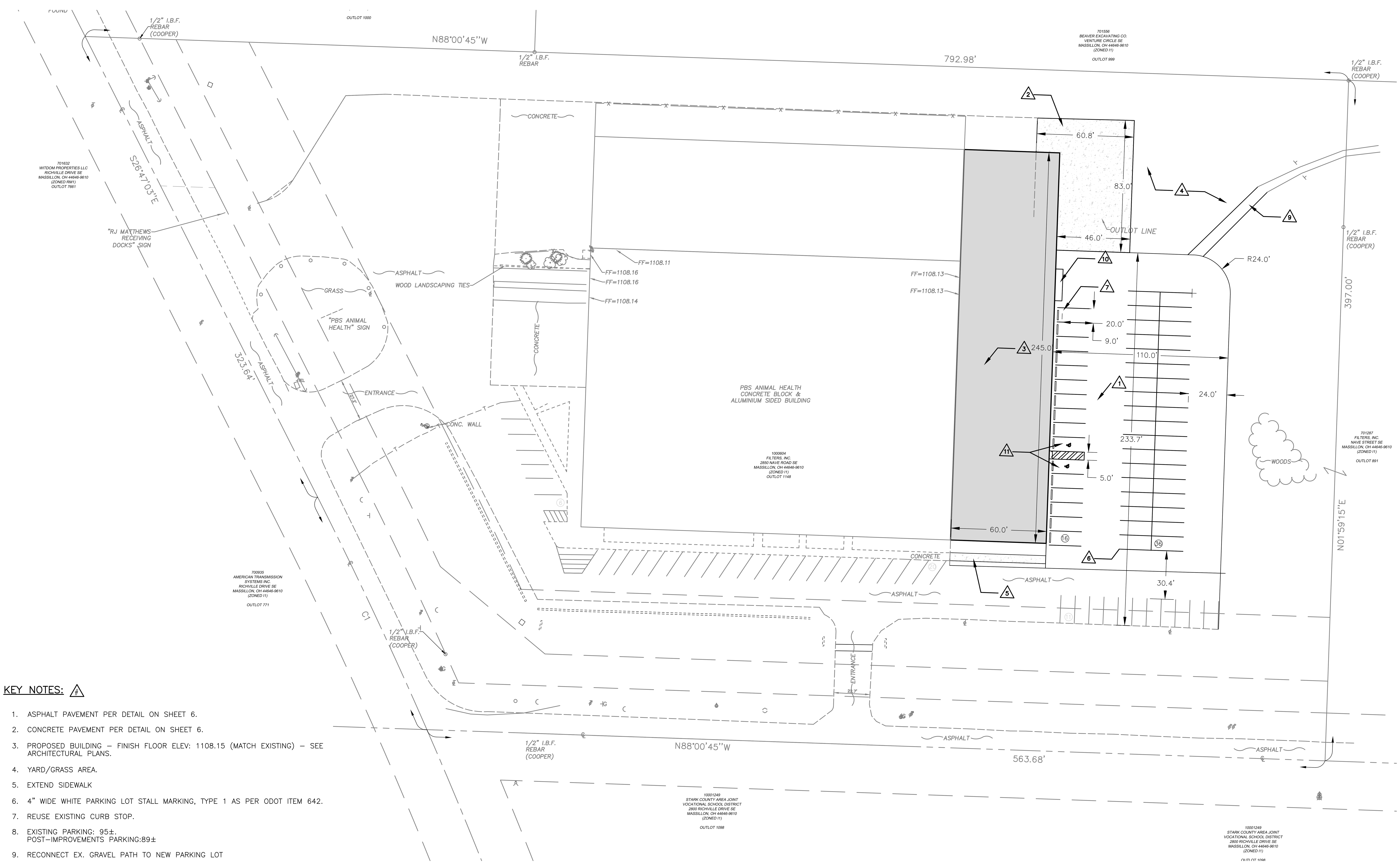
EXISTING CONDITION AND DEMO PLAN
2021 RJ MATTHEWS PLAN ADDITION
LOCATED IN THE CITY OF MASSILLON
STARK COUNTY, OHIO
FOR: IVAN WEAVER CONSTRUCTION, INC.

DRAWN BY: CM
CHECKED BY: RN
DATE 08-12-2021

SHEET 3 OF 9

PROJ.# 2156.01

C:\Users\Corinna\OneDrive – Partners Environmental\Documents\RJ Mathews\03-EX. CONDITIONS.dwg 9/28/2021



KEY NOTES: #

1. ASPHALT PAVEMENT PER DETAIL ON SHEET 6.
2. CONCRETE PAVEMENT PER DETAIL ON SHEET 6.
3. PROPOSED BUILDING – FINISH FLOOR ELEV: 1108.15 (MATCH EXISTING) – SEE ARCHITECTURAL PLANS.
4. YARD/GRASS AREA.
5. EXTEND SIDEWALK
6. 4" WIDE WHITE PARKING LOT STALL MARKING, TYPE 1 AS PER ODOT ITEM 642.
7. REUSE EXISTING CURB STOP.
8. EXISTING PARKING: 95±. POST–IMPROVEMENTS PARKING:89±
9. RECONNECT EX. GRAVEL PATH TO NEW PARKING LOT
10. NEW CONCRETE PAD. COORDINATE WITH OWNER.
11. (2) HANDICAP ACCESSIBLE SPACES

HORIZONTAL SCALE 1" = 30'
0 15 30 60

REVISIONS

1	COUNTY/CITY REVIEW	9/27/2021
2		
3		
4		
5		
6		
7		

PARTNERS
31100 Solon Road, Suite G
Solon, Ohio 44139
PH: 1(800)763-1363

STATE OF OHIO
ROGER CLEVELAND NEWBERRY
REGISTERED PROFESSIONAL ENGINEER
[illegible]

SITE PLAN

2021 RJ MATTHEWS PLANT ADDITION

LOCATED IN THE CITY OF MASSILLON
STARK COUNTY, OHIO

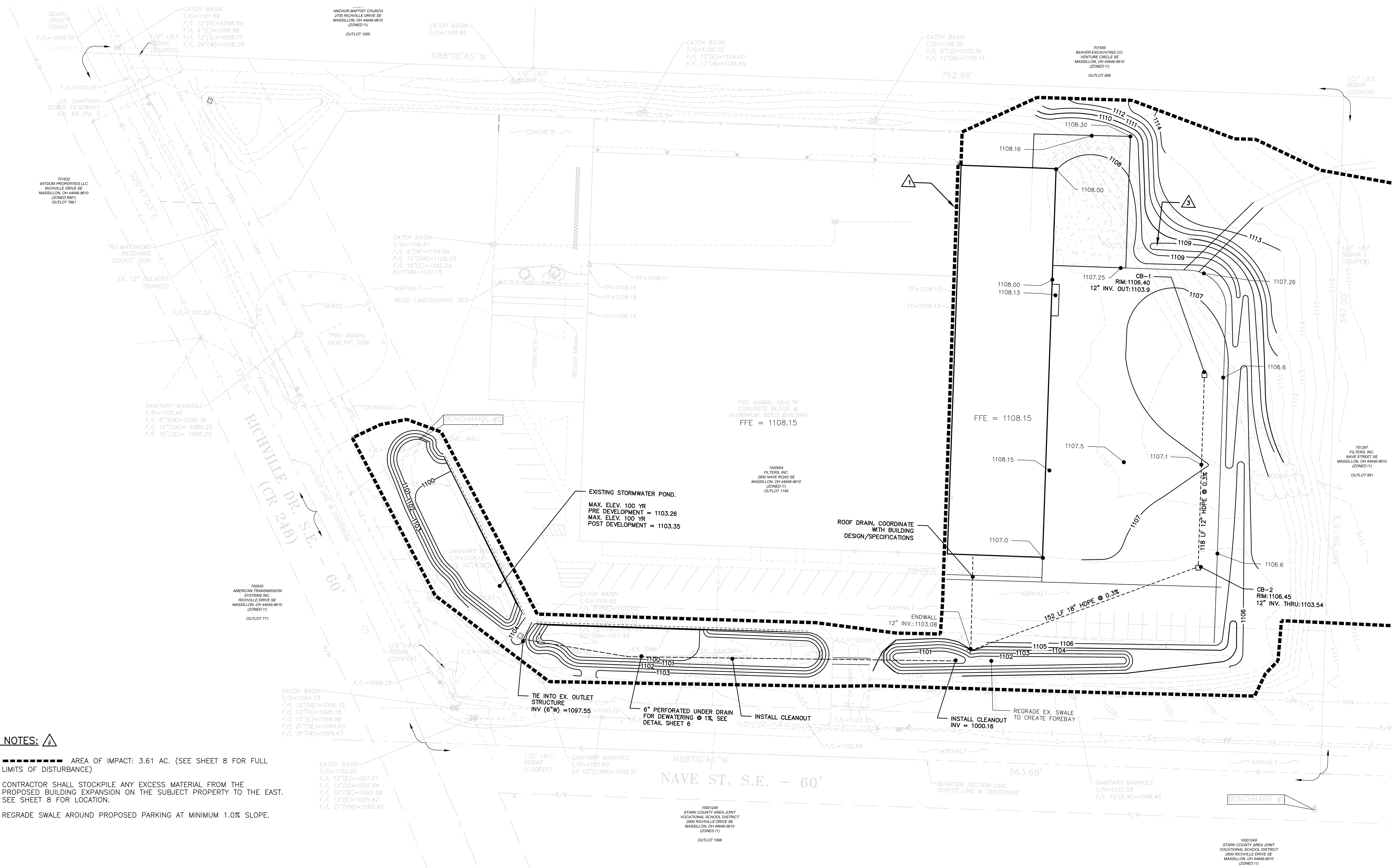
FOR: IVAN WEAVER CONSTRUCTION, INC.

DRAWN BY: CM
CHECKED BY: RN
DATE 08-12-21

SHEET 4 OF 9

SITE PLAN

PROJ.# 2156.01



KEY NOTES: ⚠#

1. ▬▬▬▬▬▬▬▬▬ AREA OF IMPACT: 3.61 AC. (SEE SHEET 8 FOR FULL LIMITS OF DISTURBANCE)
2. CONTRACTOR SHALL STOCKPILE ANY EXCESS MATERIAL FROM THE PROPOSED BUILDING EXPANSION ON THE SUBJECT PROPERTY TO THE EAST. SEE SHEET 8 FOR LOCATION.
3. REGRADE SWALE AROUND PROPOSED PARKING AT MINIMUM 1.0% SLOPE.

C:\Users\Corinna\OneDrive – Partners Environmental\Documents\RJ Mathews\05–GRADING AND DRAINAGE.dwg 9/28/2021

HORIZONTAL SCALE 1" = 30'
0 15 30 60

REVISIONS		
1	COUNTY/CITY REVIEW	9/28/2021

PARTNERS
31100 Solon Road, Suite G
Solon, Ohio 44139
PH: 1(800)763-1363

STATE OF OHIO · ROGER CLEVELAND NEWBERRY · REGISTERED PROFESSIONAL ENGINEER

GRADING AND DRAINAGE PLAN
RJ MATTHEWS PLANT ADDITION
LOCATED IN THE CITY OF MASSILLON
STARK COUNTY, OHIO
FOR: IVAN WEAVER CONSTRUCTION, INC.

DRAWN BY: CM
CHECKED BY: RN
DATE 08-12-2021

SHEET 5 OF 9

GRADING AND DRAINAGE PLAN

PROJ.# 2165.01

GENERAL

1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE APPLICABLE CODES, ORDINANCES, AND STANDARD SPECIFICATIONS OF THE MASSILLON. IN LIEU OF ANY LOCAL SPECIFICATIONS WORK SHALL BE DONE IN CONFORMANCE WITH THE STATE OF OHIO DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND MATERIAL SPECIFICATIONS MOST RECENT EDITION.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL REQUIRED PERMITS FOR CONSTRUCTION.
3. IT SHALL BE CONTRACTOR'S SOLE RESPONSIBILITY TO CONSTRUCT ALL ITEMS ON THESE PLANS USING CONSTRUCTION MEANS AND METHODS THAT WILL PROTECT PROPERTY AND PREVENT BODILY INJURY AND/OR DEATH. THE CONTRACTOR SHALL TAKE ANY NECESSARY SAFETY PRECAUTIONS TO COMPLY WITH THE SAFETY REQUIREMENTS OF CITY, STATE, AND FEDERAL GOVERNMENTS.
4. ALL EXISTING FIELD CONDITIONS SHALL BE FIELD CHECKED AND VERIFIED BY CONTRACTORS PRIOR TO BIDDING AND CONSTRUCTION. SHOULD THERE BE ANY DISCREPANCY BETWEEN PLANS AND ACTUAL FIELD CONDITIONS; CONTRACTOR HAS TO SEEK WRITTEN CLARIFICATION FROM THE OWNER'S REPRESENTATIVE PRIOR TO COMMENCEMENT OF WORK.
5. SHOULD THE CONTRACTOR ENCOUNTER CONFLICT BETWEEN THESE PLANS AND SPECIFICATIONS, EITHER AMONG THEMSELVES OR WITH THE REQUIREMENTS OF ANY AND ALL REVIEWING AND PERMIT-ISSUING AGENCIES, HE SHALL SEEK CLARIFICATION IN WRITING FROM THE OWNER'S REPRESENTATIVE BEFORE COMMENCEMENT OF CONSTRUCTION.
6. THE CONTRACTOR SHALL PERFORM ALL OF THE WORK AND FURNISH ALL OF THE LABOR & MATERIALS NECESSARY FOR THE FINAL COMPLETION OF THIS CONTRACT IN THE MANNER AND UNDER THE CONDITIONS HEREIN SPECIFIED AND PROVIDED AND IN ACCORDANCE WITH THE CONTRACT DRAWINGS.
7. ALL SHOP DRAWINGS WILL BE SUBMITTED TO THE OWNER'S ENGINEER FOR APPROVAL.
8. THE CONTRACTOR SHALL NOTIFY THE CITY OF MASSILLON POLICE & FIRE DEPARTMENTS AT LEAST 48 HOURS IN ADVANCE OF ANY STREET CLOSING OR TRAFFIC CHANGE.
9. THE CONTRACTOR SHALL PERFORM WORK AS TO NOT DISTURB, DAMAGE OR DESTROY AND MAILBOX, PAPERBOX, TELEPHONE OR POWER POLES, SIGNS, LANDSCAPING ITEMS, ETC. ANY ITEM DAMAGED OR DESTROYED SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE. ANY ITEM DISTURBED OR IN CONFLICT WITH THE WORK TO BE PERFORMED SHALL BE REMOVED AND RESET AT THE CONTRACTOR'S EXPENSE. PRIOR ENGINEER APPROVAL IS REQUIRED BEFORE ANY OF THE ABOVE ITEMS ARE PERFORMED.
10. CONSTRUCTION SHALL BE PERFORMED, AND EQUIPMENT STORED, IN A MANNER THAT PERMITS EXISTING FACILITIES TO PERFORM WITHOUT INTERRUPTION.
11. THE CONTRACTOR WILL CAREFULLY PRESERVE BENCH MARKS, PROPERTY CORNERS REFERENCE POINTS, AND STAKES AND IN CASE OF DISTURBANCE, HE SHALL ENGAGE A REGISTERED SURVEYOR TO REPLACE THEM AT HIS EXPENSE AND SHALL BE RESPONSIBLE FOR ANY MISTAKES THAT MAY BE CAUSED BY THEIR LOSS OR DISTURBANCE.

EXCAVATION, BACKFILL, EMBANKMENT, & COMPACTION

1. NO SOIL BORINGS WERE ACQUIRED FOR THIS PROJECT. THE CONTRACTOR MAY PERFORM HIS OWN SOILS INVESTIGATION AFTER OBTAINING APPROVAL FROM THE OWNER.
2. EMBANKMENT CONSTRUCTION AND SUBGRADE COMPACTION SHALL BE IN GENERAL CONFORMANCE WITH ODOT SPECIFICATIONS AND MORE SPECIFICALLY AS FOLLOWS:
   A. STANDARD PROCTOR WITHIN BUILDING LIMITS (TO 5' OUTSIDE BUILDING LINE) AND UNDER PAVEMENT = 100%.
   B. STANDARD PROCTOR IN UTILITY TRENCHES = 95%.
   C. STANDARD PROCTOR IN YARD AREAS = 90%.
3. ALL EXCESS EXCAVATION MATERIALS SHALL BE DISPOSED OF ON-SITE AS APPROVED BY THE OWNER.
4. ALL UTILITY LINES (I.E. STORM SEWERS, STORM LATERALS, SANITARY LATERALS, WATER MAINS, WATER SERVICE CONNECTIONS, GAS MAINS, GAS SERVICE CONNECTIONS, UNDERGROUND OBT CONDUITS, CABLE TV LINES) CROSSING THE PROPOSED IMPROVEMENTS, WHETHER SHOWN OR NOT SHOWN ON THE PLANS, SHALL BE PROTECTED AND SUPPORTED WITH HARDWOOD PLANKS OR REMOVED AND REPLACED, RECONNECTED AND SUPPORTED ACROSS THE ENTIRE WIDTH OF THE TRENCH. NO ADDITIONAL COMPENSATION WILL BE PAID FOR THE ABOVE WORK. IF ANY OF THESE LINES ARE DAMAGED DURING CONSTRUCTION, THEY SHALL BE REPLACED.

PROTECTION AGAINST VANDALISM

1. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE SUFFICIENT SITE SECURITY MEASURES AND/OR PERSONNEL TO PROTECT HIS MATERIALS AND EQUIPMENT. CONTRACTOR SHALL ALSO PROTECT ALL NEW CONCRETE WORK FROM VANDALISM UNTIL THE CONCRETE IS SUFFICIENTLY CURED AT NO ADDITIONAL COST TO THE OWNER.

SANITARY, STORM, & WATER SERVICE CONNECTIONS

1. THE FOLLOWING NOTES APPLY TO SANITARY, STORM, AND WATER CONNECTIONS.
   A. LOCATIONS OF EXISTING SERVICE CONNECTIONS ARE APPROXIMATE. THE CONTRACTOR SHALL FIELD LOCATE ALL EXISTING CONNECTIONS AS APPLICABLE.
   B. IF APPLICABLE, THERE SHALL BE NO ADDITIONAL COSTS TO THE OWNER FOR SAW CUTTING, EXCAVATION OR BACKFILL, INCLUDING MATERIALS AND LABOR FOR PIPING, CAPS, BULKHEADS AND APPURTENANCES PLACED FOR LATERALS WHICH ARE DETERMINED TO BE INACTIVE AND THUS ARE TO BE ABANDONED.
2. AS APPLICABLE, EXISTING SEWER & WATER SERVICE CONNECTIONS SHALL BE PROTECTED AND MAINTAINED IN SERVICE. ANY EXISTING WATERLINE, SANITARY SEWER, AND GAS LINE, IN OR OUTSIDE OF THE CONSTRUCTION LIMITS, DAMAGED DURING CONSTRUCTION OF THE PROPOSED PROJECT, SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.

ROADWAY EXCAVATION & PAVEMENT

1. CONTRACTOR SHALL BE RESPONSIBLE FOR ACQUISITION OF PERMITS (AND PAYMENT OF ANY PERMIT & INSPECTION FEES) FOR PERFORMANCE OF ANY WORK WITHIN THE PUBLIC ROADWAYS.
2. ALL EXISTING PAVEMENT REMOVAL & REPLACEMENT OR NEW PAVEMENT AND ASSOCIATED ROADWAY WORK SHALL BE IN ACCORDANCE WITH THE STATE OF OHIO DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND MATERIAL SPECIFICATIONS, STANDARD CONSTRUCTION DRAWINGS AND SUPPLEMENTAL SPECIFICATIONS, MOST RECENT EDITION, WITH THE MODIFICATIONS AS SET FORTH IN THESE SPECIFICATIONS.
3. PROPOSED DRIVE APRONS SHALL BE IN ACCORDANCE WITH CITY OF MASSILLON REGULATIONS.

METER BOXES, VALVES BOXES, STRUCTURES ADJUSTED TO GRADE

1. AS APPLICABLE ALL EXISTING MANHOLES, CATCH BASINS, MONUMENT BOXES, WATER METER BOXES, WATER VALVE BOXES, GAS VALVE BOXES, OR OTHER EXISTING UTILITY APPURTENANCES WITHIN THE WORK LIMITS SHALL BE ADJUSTED TO THE PROPOSED GRADE AND FLUSH WITH THE NEW SURFACE. ANY METER OR VALVE BOX ENCOUNTERED WITHIN THE WORK SITE SHALL BE EXPOSED.

STORM SEWER

1. THE FOLLOWING MATERIALS ARE APPROVED FOR THE STORM SEWER UNLESS OTHERWISE DESIGNATED ON THE PLAN. INSTALLATION TO BE IN ACCORDANCE WITH ODOT TYPE 'B' UNLESS OTHERWISE NOTED.
   A. REINFORCED CONCRETE PIPE PER ODOT ITEM 603
   B. HIGH DENSITY POLYETHYLENE CORRUGATED PIPE WITH SMOOTH INTERIOR PER ODOT ITEM 707.33
   C. PVC (SDR 35) IN ACCORDANCE WITH ASTM D-3034

EXISTING UTILITIES

1. THE CONTRACTOR SHALL VISIT THE SITE PERSONALLY TO ASCERTAIN THE NATURE OF THE WORK AND THOROUGHLY FAMILIARIZE HIMSELF WITH THE SITE.
2. THE LOCATIONS OF THE UNDERGROUND UTILITIES ARE PER SURVEY OR PLOTTED ACCORDING TO THE INFORMATION FURNISHED BY THE UTILITIES CONCERNED. THE CONTRACTOR SHALL COORDINATE HIS WORK WITH ALL APPLICABLE UTILITY COMPANIES.
3. IN THE EVENT OF DAMAGE TO EXISTING PUBLIC AND/OR PRIVATE UTILITIES, THE AGENCY CONCERNED SHALL BE NOTIFIED IMMEDIATELY AND ALL REPAIR WORK SHALL BE EXECUTED IN ACCORDANCE WITH THE SPECIFICATIONS OF THE RESPECTIVE AGENCY AT NO ADDITIONAL EXPENSE TO THE OWNER INCLUDING ANY INSPECTION FEES OR MAINTENANCE CREWS.
4. WHERE EXISTING POWER OR TELEPHONE POLES ARE IN CLOSE PROXIMITY TO WORK, THE CONTRACTOR SHALL COORDINATE HIS WORK EFFORTS WITH THOSE OF THE UTILITY COMPANIES SUCH THAT THEIR EXISTING FACILITIES CAN BE MAINTAINED AND PROTECTED DURING THE TIME WORK IS GOING ON ADJACENT TO THE POLE. THE COST FOR ANY REQUIRED PROTECTION SHALL BE BY THE CONTRACTOR.
5. BEFORE ANY WORK IS STARTED THAT WILL INTERFERE WITH THE EXISTING UTILITIES, THE CONTRACTOR SHALL CALL THE "OHIO UTILITIES PROTECTION SERVICE" AT 1-800-362-2764, FORTY-EIGHT (48) HOURS IN ADVANCE OF THE WORK. NON-MEMBER UTILITIES MUST BE CONTACTED DIRECTLY. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO AVOID DAMAGE TO EXISTING UNDERGROUND AND OVERHEAD UTILITY LINES DURING THE ENTIRE PROJECT. IN THE EVENT OF DAMAGE TO EXISTING PUBLIC AND/OR PRIVATE UTILITIES, THE AGENCY CONCERNED SHALL BE NOTIFIED IMMEDIATELY AND ALL REPAIR WORK SHALL BE EXECUTED IN ACCORDANCE WITH THE SPECIFICATIONS OF THE RESPECTIVE AGENCY AT NO ADDITIONAL EXPENSE TO THE OWNER.

EXISTING UTILITIES (CONTINUED)

THE UTILITY OWNERSHIPS ARE AS FOLLOWS:

AT&T
50 W. BOWERY ST 4TH FLOOR
AKRON, OHIO 44308
PH: 330-384-3651
ATT: CINDY T ZUCHEGNO

DOMINION EAST OHIO
320 SPRINGSIDE DRIVE; SUITE 320
AKRON, OHIO 44333
PH: (800)362-7557

MASSILLON CABLE TV
814 CABLE CT. NW
MASSILLON, OHIO 44648
PH: 330-438-4134
ATT: JEFF CAMBELL

AQUA OHIO INC.
870 THIRD STREET NW
MASSILLON, OHIO 44647
PH: 330-832-7600
ATT: DON SNYDER

FIRST ENERGY
2600 ERIE ST. S
MASSILLON, OHIO 44646
PH: 330-830-7056
ATT: LUKE SAGE

CITY OF MASSILLON
ENGINEERING DEPARTMENT
151 LINCOLN WAY EAST
MASSILLON, OHIO 44646
PH: 330-830-1722

NORTHEAST OHIO NATURAL GAS CORP.
9081 STATE ROUTE 250
STRASBURG, OHIO 44680
PH: (330) 878-5589
WWW.NEOGAS.COM

6. WHERE PLANS PROVIDE FOR A PROPOSED CONDUIT TO BE CONNECTED TO, OR CROSS OVER OR UNDER AN EXISTING SEWER OR UNDERGROUND UTILITY, THE CONTRACTOR SHALL LOCATE THE EXISTING PIPES OR UTILITIES BOTH AS TO LINE AND GRADE BEFORE STARTING TO LAY THE PROPOSED CONDUIT.
7. IF IT IS DETERMINED THAT THE PROPOSED CONDUIT WILL INTERSECT AN EXISTING SEWER OR UNDERGROUND UTILITY IF CONSTRUCTED AS SHOWN ON THE PLAN, THE ENGINEER SHALL BE NOTIFIED BEFORERE STARTING CONSTRUCTION OF ANY PORTION OF THE PROPOSED CONDUIT WHICH WOULD BE AFFECTED BY THE INTERFERENCE WITH AN EXISTING FACILITY.

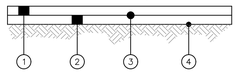
RESTORATION

1. THE CONTRACTOR SHALL CLEAN UP ALL DEBRIS AND MATERIALS RESULTING FROM HIS OPERATION AND RESTORE ALL SURFACES, STRUCTURES, DITCHES AND PROPERTY TO ITS ORIGINAL CONDITION TO THE SATISFACTION OF THE OWNER'S ENGINEER. ANY DITCHES DISTURBED DURING CONSTRUCTION SHALL BE REGRADED BY THE END OF THE SAME WORKDAY.
2. ALL EXISTING STORM AND SANITARY SEWER FACILITIES DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED, RPLACED OR RECONNECTED TO THE EXISTING OR PROPOSED SYSTEM AS DIRECTED BY THE ENGINEER AT NO COST TO THE OWNER.

ENVIRONMENTAL PROTECTION

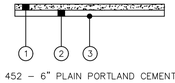
1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ON-SITE EROSION CONTROL IN CONFORMANCE WITH REQUIREMENTS OF THE CITY OF MASSILLON AND AS PRESENTED ON THE IMPROVEMENT PLANS.
2. THE CONTRACTOR SHALL TAKE PRECAUTION TO PERFORM ALL ACTIVITIES IN CONFORMANCE WITH CITY, STATE, AND FEDERAL LAWS RELATIVE TO THE PROTECTION TO THE ENVIRONMENT. SOME SPECIFIC ITEMS (NOT INCLUSIVE) WHICH ARE PROHIBITED FOLLOW:
   A. LOCATING STOCKPILE STORAGE AREAS IN ENVIRONMENTALLY SENSITIVE AREAS.
   B. INDISCRIMINATE, ARBITRARY OR CAPRICIOUS OPERATION OF EQUIPMENT IN ANY STREAM CORRIDORS, WETLANDS, SURFACE WATERS OR OUTSIDE THE EASEMENT LIMITS.
   C. PUMPING OF SEDIMENT-LADEN WATER FROM TRENCHES OR OTHER EXCAVATIONS DIRECTLY INTO ANY SURFACE WATERS, STREAM CORRIDORS, WETLANDS OR STORM SEWERS; ALL SUCH WATER WILL BE PROPERLY FILTERED OR SETTLED TO REMOVE SILT PRIOR TO RELEASE.
   D. DISCHARGING POLLUTANTS SUCH AS CHEMICALS, FUELS, LUBRICANTS, BITUMINOUS MATERIALS, RAW SEWAGE AND OTHER HARMFUL WASTE INTO OR ALONGSIDE OF RIVERS, STREAMS, WETLANDS, SURFACE WATERS, IMPOUNDMENTS OR INTO NATURAL OR MAN-MADE CHANNELS LEADING THERETO.
   E. OPERATIONS ENTAILING THE USE OF VIBRATORY HAMMERS OR COMPACTORS OUTSIDE THE HOURS OF 8:00 AM AND 4:30 PM OR OUTSIDE THE HOURS ALLOWED FOR CONSTRUCTION BY LOCAL ORDINANCES OR REGULATIONS.

TYPICAL PAVEMENT SECTION
NOT TO SCALE
(OR AS APPROVED BY OWNER)
ESTIMATED AREA = 31,079 S.F.

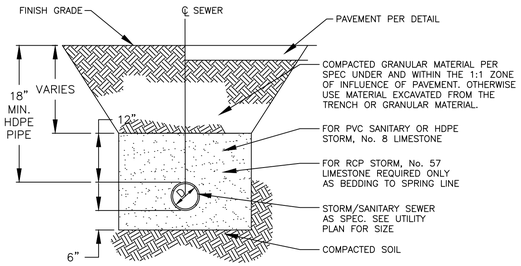


1. ITEM 404 - 1-1/2" ASPHALT CONCRETE SURFACE COURSE
2. ITEM 301 - 4-1/2" BITUMINOUS AGGREGATE BASE
3. ITEM 408 - BITUMINOUS PRIME COAT (0.4 GAL. S.Y.)
4. ITEM 203 - COMPACTED SUBBASE

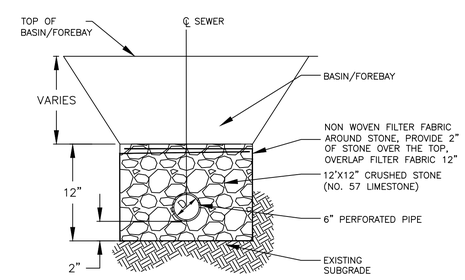
CONCRETE PAVEMENT SECTION
NOT TO SCALE
(OR AS APPROVED BY OWNER)
ESTIMATED AREA = 4,470 S.F.



1. ITEM 452 - 6" PLAIN PORTLAND CEMENT CONCRETE
2. ITEM 304 - 6" AGGREGATE BASE
3. ITEM 203 - COMPACTED SUBBASE

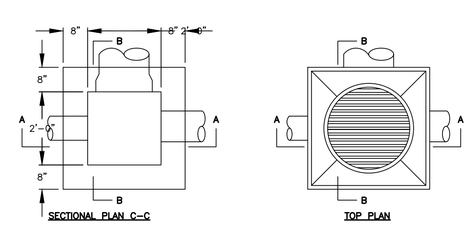


STORM/SANITARY SEWER TRENCH
SCALE: NONE



BASIN/FOREBAY UNDERDRAIN
SCALE: NONE

NOTE:
1. BRICK, CONCRETE BLOCK OR CAST-IN-PLACE WALLS HAVING NOMINAL THICKNESS OF 8 INCHES. PRECAST WALLS SHALL HAVE A MINIMUM THICKNESS OF 6 INCHES AND BE REINFORCED SUFFICIENTLY TO PERMIT SHIPPING AND HANDLING WITHOUT DAMAGE.
2. CB 2-2B GRATE ELEVATION TO BE PLACED 1 TO 2 INCHES BELOW PAVEMENT GRADE. CONCRETE CAST-IN-PLACE TO BE CLASS C. ALL CONCRETE SHALL MEET THE REQUIREMENTS OF ODOT 708.13 WITH 6± 2% AIR VOID CONTENT IN THE HARDENED CONCRETE AND BE MARKED WITH CATCH BASIN NUMBER.
3. ALL GRATE EDGES TO BE ROUNDED 1/4" RADIUS.
4. OPENINGS FOR PIPE SHALL BE MADE TO ACCOMMODATE THE TYPE(S) OF PIPES USED FOR THE PROJECT. LOCATION AND ELEVATION WHEN GIVEN ON THE PLANS IS TOP CENTER OF THE GRATE. GRATING AND FRAME - THE DESIGN SHALL BE ESSENTIALLY THE SAME AND EQUALLY AS STRONG AS THE ONE SHOWN HEREON.



SECTIONAL PLAN C-C | TOP PLAN

SECTION A-A | SECTION B-B

CATCH BASIN 2-2B MODIFIED
SCALE: NONE

HORIZONTAL SCALE
1" = 30'

REVISIONS

	COUNTY/CITY REVIEW	9/28/2021

PARTNERS
31100 Solon Road, Suite G
Solon, Ohio 44139
PH: 1(800)763-1363

NOTES AND DETAILS
2021 RJ MATTHEWS PLANT ADDITION
LOCATED IN THE CITY OF MASSILLON
STARK COUNTY, OHIO
FOR: IVAN WEAVER CONSTRUCTION, INC.

DRAWN BY: CM
CHECKED BY: RN
DATE 08-09-2021

SHEET 6 OF 9

PROJ.# 2165.01

STORMWATER POLLUTION PREVENTION PLAN
RJ MATTHEWS – 2021 BUILDING ADDITION
CITY OF MASSILLON, STARK COUNTY, OHIO

PROJECT SITE DESCRIPTION
EROSION AND SEDIMENT CONTROL, POST–CONSTRUCTION
STORMWATER POLLUTION PREVENTION, AND NON–SEDIMENT
POLLUTION CONTROL PRACTICES AND PROCEDURES
OWNER CERTIFICATION

GENERAL REQUIREMENTS:

STARK SOIL & WATER CONSERVATION DISTRICT MUST RECEIVE TWO (2) SETS OF THE STORM WATER POLLUTION PREVENTION PLAN (SWP3) AND ONE (1) FULL SET OF CONSTRUCTION PLANS. IN A VILLAGE OR MUNICIPALITY, THE VILLAGE OR MUNICIPALITY ENGINEER MUST RECEIVE A COPY OF THE SWP3 PLAN. THE DISTRICT WILL REVIEW, RETURN, OR APPROVE THE SWP3 WITHIN 30 WORKING DAYS AFTER RECEIPT OR SUBMITTAL OF THE PLAN. THE APPROVED SWP3 WILL BE VALID FOR TWO (2) YEARS. THE DEVELOPER MUST APPLY FOR A NOTICE OF INTENT (NOI) FROM THE OHIO EPA IF APPLICABLE AND A COPY OF THE NOI AND SUBSEQUENT PERMIT LETTER SENT TO THE STARK SWCD OFFICE. AN APPROVED PLAN AND PRE–CONSTRUCTION MEETING ARE REQUIRED BEFORE ANY EARTH MOVING IS PERMITTED. IT IS THE DEVELOPER'S RESPONSIBILITY TO CONTACT THE STARK SWCD OFFICE (330–451–7645) TO SCHEDULE THE PRE–CONSTRUCTION MEETING.

SITE INFO:

TOTAL DRAINAGE AREA = 11.74 AC.
TOTAL DISTURBED AREA = 3.61 AC.
NPDES PERMIT = IN PROGRESS
LOCATION = CITY OF MASSILLON
LATITUDE = N 40°46'07"
PRE–DEVELOPMENT C = 0.35
WATERSHED = TUSCARAWAS RIVER

CONTRACTOR = IVAN WEAVER CONST.
MS4 OPERATOR = CITY OF MASSILLON
LONGITUDE = W 81°28'58"
POST–DEVELOPMENT C = 0.37

INTRODUCTION:

THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE NPDES PERMIT FOR CONSTRUCTION SITES IN OHIO AND WITH THE APPLICABLE LOCAL STORMWATER POLLUTION PREVENTION PLAN REGULATIONS. THIS PLAN ADDRESSES THE THREE SIGNIFICANT WATER QUALITY & QUANTITY ASPECTS OF THE LAND DEVELOPMENT CONSTRUCTION PROCESS:

1. EROSION AND SEDIMENT CONTROL DURING CONSTRUCTION,
2. POST–CONSTRUCTION STORMWATER MANAGEMENT, AND
3. NON–SEDIMENT POLLUTANT CONTROLS.

THE CONTRACTOR SHALL INSTALL & MAINTAIN THE PRACTICES INDICATED IN ACCORDANCE WITH THE INCLUDED SEQUENCE OF CONSTRUCTION AND THE DETAILS AND SPECIFICATIONS CONTAINED IN RAINWATER AND LAND DEVELOPMENT (ODNR, DIV. OF SOIL AND WATER CONSERVATION, AND OTHER REFERENCED MANUALS AND HANDBOOKS. THOSE PRACTICES THAT ARE INTENDED TO BE USED ARE:

1. SFF – SILT FENCE
2. CE – CONSTRUCTION ENTRANCE
3. GIP – GEOTEXTILE INLET PROTECTION
4. CWA – CONCRETE WASH WATER CONTAINMENT AREA

PROJECT DESCRIPTION:

THE PROJECT IMPROVEMENTS CONSIST OF A BUILDING ADDITION TO THE EAST SIDE OF THE EXISTING BUILDING + PAVED STANDARD PARKING ON THE EAST SIDE OF THE ADDITION. EXISTING DRAINAGE FROM THE NORTH BYPASSES THE SITE IMPROVEMENT AREA AND DISCHARGE INTO AN EXISTING STORM SEWER ON THE EAST SIDE OF RICHVILLE ROAD. PROPOSED STORM RUNOFF FROM THE BUILDING ADDITION AND THE DRAINAGE FROM THE PROPOSED PAVED PARKING LOT TO THE EAST OF THE EXISTING BUILDING WILL FLOW OVERLAND TO, AND THRU, A GRASSED SWALE WHERE IT WILL THEN DISCHARGE INTO THE EXISTING SWM BASIN LOCATED NEAR THE SW CORNER OF THE PROPERTY. THE OVERLAND SHEET FLOW AND FLOW THRU THE GRASSED SWALE SHALL PROVIDE THE WQ TREATMENT AND THE EXISTING SWM BASIN PROVIDES THE DETENTION FOR SAME. ALL DRAINAGE FROM THIS DEVELOPMENT WORKS ITS WAY WEST AND EVENTUALLY DISCHARGES INTO THE TUSCARAWAS RIVER.

EROSION AND SEDIMENT CONTROL MEASURES:

EROSION AND SEDIMENT CONTROL PRACTICES INDICATED ON THIS PLAN SHALL MEET THE STANDARDS AND SPECIFICATIONS CONTAINED IN THE CURRENT EDITION OF RAINWATER & LAND DEVELOPMENT MANUAL. STARK COUNTY METROPOLITAN SEWER DISTRICT SHALL BE RESPONSIBLE FOR THE INSTALLATION OF PERIMETER CONTROLS AND FOR THE MAINTENANCE OF PERIMETER CONTROLS UNTIL FINAL STABILIZATION IS ACHIEVED.

A. SEQUENCE OF EROSION AND SEDIMENT CONTROL PRACTICE IMPLEMENTATION:

1. PRIOR TO THE BEGINNING OF DISTURBANCE, THE CONTRACTOR MUST SCHEDULE A PRE–CONSTRUCTION MEETING WITH THE APPLICABLE SWCD OFFICE. SEE ABOVE FOR DESIGNATION AND CONTACT NUMBER.
   FOR POST–CONSTRUCTION STORMWATER POLLUTION PREVENTION SPECIFICS SEE THE PLAN & CONTROL SHEETS LISTED IN THE SWP3 SHEET INDEX.
2. INSTALL CONSTRUCTION ENTRANCES AT EVERY POINT OF ACCESS FOR CONSTRUCTION VEHICLES ONTO PAVED PUBLIC ROADWAYS.
3. PRIOR TO ANY GRADING ACTIVITIES TAKING PLACE, SILT FENCING AND OTHER SEDIMENT BARRIERS INDICATED ON THE PLAN, OR AS SHALL BE DEEMED NECESSARY UPON INSPECTION, SHALL BE INSTALLED AND FUNCTIONAL.
4. PRIOR TO ANY MAJOR GRADING ACTIVITY TAKING PLACE, THE APPROPRIATE SEDIMENT TRAPPING FACILITIES INDICATED ON THIS PLAN SHALL BE IMPLEMENTED BY ADDING A CHECK DAM ACROSS THE EXISTING BASIN OUTLET, AND GRADING IN THE PROPOSED FOREBAY.
5. ALL TOPSOIL STOCKPILES SHALL BE STABILIZED WITH IN 14 DAYS OF THE STOCKPILING ACTIVITY COMPLETION.
6. ALL DISTURBED AREAS SHALL BE TEMPORARILY OR PERMANENTLY SEEDED WITHIN 14 DAYS OF ACTIVITY COMPLETION IN SAID AREA, AS INDICATED ON THE PLAN, IN ACCORDANCE WITH THE SPECIFICATIONS UNDER NON–STRUCTURAL PRACTICES.
7. DROP INLET PROTECTION SHALL BE INSTALLED IN ALL LOCATIONS WHERE PRESENTED ON THE PLAN.
8. DITCHES OR SWALES SHALL BE STABILIZED AS INDICATED ON THE PLAN BEFORE THE CHANNEL BEGINS TO RECEIVE ITS DESIGN FLOW.
9. TEMPORARY CONTROL MEASURES MAY BE REMOVED & DISPOSED OF AT THE TIME THAT THE ENTIRE CONTRIBUTING AREA HAS BEEN STABILIZED. TRAPPED SEDIMENTS SHALL BE REMOVED & DISPOSED OF AT A LOCATION AND IN A MANNER WHICH WILL PREVENT THEIR FURTHER EROSION.
10. FINAL SITE STABILIZATION IS ACHIEVED ONCE ALL OF THE TEMPORARY EROSION & SEDIMENT CONTROL MEASURES HAVE BEEN REMOVED & DISPOSED OF AND ALL TRAPPED SEDIMENT HAS BEEN PERMANENTLY STABILIZED (NO REMAINING EXPOSED GROUND ON THE SITE WITH ALL SURFACES BEING PROTECTED BY EITHER PAVEMENT, ROOF AREA, OR PERMANENT 70% MINIMUM VEGETATIVE COVER.

B. NON–STRUCTURAL PRACTICES:

WHEREVER FEASIBLE, THE NATURAL CONDITION SHOULD BE PRESERVED. THIS IS ACCOMPLISHED BY PRESERVING RIPARIAN AREAS ADJACENT TO SURFACE WATERS OF THE STATE, PRESERVING EXISTING VEGETATION AND VEGETATED BUFFER STRIPS, PHASING CONSTRUCTION TO MINIMIZE DISTURBANCE, AND DESIGNATION OF TREE PRESERVATION AREAS. NOTE: UNDISTURBED RIPARIAN AREAS AND BUFFERS SHOULD BE A MINIMUM OF 25 FEET WIDE AS MEASURED FROM THE ORDINARY HIGH WATER MARK OF THE SURFACE WATER. DESIGNATED AND/OR JURISDICTIONAL WETLANDS ARE CONSIDERED TO BE SURFACE WATERS.

C. EROSION CONTROL PRACTICES:

THE CONTRACTOR SHALL INITIATE TEMPORARY SEEDING OR PERMANENT SEEDING ON ALL DISTURBED AREAS IN ACCORDANCE WITH THE TIMING REQUIREMENTS DESIGNATED ON THIS PLAN. WHEN SEASONAL CONDITIONS PROHIBIT THE APPLICATION OF TEMPORARY OR PERMANENT SEEDING, NON–VEGETATIVE SOIL STABILIZATION PRACTICES SUCH AS MATTING & MULCHING SHALL BE USED.

D. STRUCTURAL PRACTICES:

1. TIMING – THROUGHOUT ANY EARTH DISTURBING ACTIVITY, PROPOSED SEDIMENT PONDS & PERIMETER SEDIMENT BARRIERS SHALL BE IMPLEMENTED AS THE FIRST STEP OF GRADING AND WITHIN SEVEN DAYS OF THE START OF GRUBBING. THEY SHALL REMAIN UNTIL THE UPSLOPE DEVELOPMENT AREA IS RESTABILIZED.
2. SETTLING PONDS – CONCENTRATED STORM WATER RUNOFF FROM DISTURBED AREAS SHALL PASS THROUGH A SEDIMENT SETTLING POND. THE FACILITY'S SEDIMENT TRAPPING CAPACITY SHALL BE 67 CUBIC YARDS PER ACRE OF THE TOTAL CONTRIBUTING AREA.
3. SEDIMENT BARRIERS – SHEET FLOW RUNOFF FROM DENUDED AREAS SHALL BE INTERCEPTED BY SEDIMENT BARRIERS. SEDIMENT BARRIERS, SUCH AS SILT FENCES OR DIVERSIONS DIRECTING RUNOFF TO SETTLING FACILITIES, SHALL PROTECT ADJACENT PROPERTIES AND WATER RESOURCES FROM SEDIMENT TRANSPORTED BY SHEET FLOW.
4. OTHER – EROSION AND SEDIMENT CONTROL PRACTICES SHALL PREVENT SEDIMENT LADEN WATER FROM ENTERING STORM DRAIN SYSTEMS, UNLESS THE STORM DRAIN SYSTEM DRAINS INTO A SETTLING POND. THESE PRACTICES SHALL DIVERT RUNOFF FROM DISTURBED AREAS AND STEEP SLOPES WHERE PRACTICABLE AND STABILIZE CHANNELS & OUT FALLS FROM EROSIVE FLOWS.

POST–CONSTRUCTION STORMWATER POLLUTION PREVENTION:

STRUCTURAL & NON–STRUCTURAL POST–CONSTRUCTION POLLUTION PREVENTION PRACTICES ARE REQUIRED BY FEDERAL, STATE, (AND LOCAL) GUIDELINES AND REGULATIONS FOR ALL PROJECTS WHERE THE DISCHARGE FOLLOWING DEVELOPMENT EXCEEDS THE PRE–DEVELOPMENT DISCHARGE. THE PURPOSE OF THESE STORMWATER MANAGEMENT PRACTICES IS TO ENSURE THAT THERE IS NO SIGNIFICANT CHANGE IN THE HYDROLOGICAL REGIME OF THE RECEIVING WATER.

THE PROPOSED IMPROVEMENTS WILL BE REQUIRED POST–CONSTRUCTION POLLUTION PREVENTION MEASURES INCLUDING PERMANENT WATER QUALITY STORAGE VOLUME IN THE PROPOSED SWM BASIN. PRIOR TO THE BASIN'S CONVERSION TO PERMANENT SWM & WQ THE OUTLET CONTROL STRUCTURE WILL BE MODIFIED TO PROVIDE SEDIMENT CONTROL. AT TIME OF THE BASIN'S CONVERSION THE DEVELOPER SHALL BE RESPONSIBLE FOR REMOVAL OF SEDIMENT FROM THE BASIN, CONVERSION OF THE CONTROL STRUCTURE, AND SEEDING OF IMPACTED AREAS. THE PROPOSED SWM BASIN IS DESIGNED AS A RAIN GARDEN.

NOTE: STORMWATER MANAGEMENT IS INTEGRAL TO THE DEVELOPMENT OF THE IMPROVEMENT PLANS FOR THE SITE. STORMWATER MANAGEMENT PRACTICES SHOWN ON THIS PLAN ARE FOR REFERENCE ONLY. CONSTRUCTION MUST BE IN ACCORDANCE WITH THE DETAILS AND SPECIFICATIONS CONTAINED IN THE SITE IMPROVEMENT PLANS AND OHIO EPA.

NON–SEDIMENT POLLUTION CONTROLS:

NO SOLID (OTHER THAN SEDIMENT) OR LIQUID WASTE, INCLUDING BUILDING MATERIALS, SHALL BE DISCHARGED INTO STORM WATER RUNOFF AND/OR STORMWATER CONVEYANCE FACILITIES.

A. CONSTRUCTION ROAD/PARKING AREA STABILIZATION:

IF NOT DESIGNATED ON THE PLAN & CONTROL SHEETS OF THIS PLAN THEN THE CONTRACTOR SHALL DESIGNATE AREAS FOR CONSTRUCTION VEHICLE ACCESS AND PARKING AND ENSURE THAT SAID USES WILL BE RESTRICTED. THE CONTRACTOR SHALL DESIGNATE AREAS FOR CONSTRUCTION VEHICLE ACCESS AND PARKING AND ENSURE THAT THE DESIGNATED USES WILL BE RESTRICTED TO THOSE AREA. THE DESIGNATED ACCESS AND PARKING AREAS SHALL BE STABILIZED WITH A 6–INCH LAYER OF 2– TO 4–INCH CRUSHED ROCK OR GRAVEL BASE PRIOR TO VEHICLES BEING PERMITTED TO USE THE AREAS. IT IS RECOMMENDED THAT THE SAME AREA BE USED FOR MAINTENANCE AND FUELING OPERATIONS AND MATERIAL STORAGE, WITH THE APPROPRIATE DIKING AND OTHER RAINFALL RUNOFF CONTROLS.

B. WASTE MATERIAL:

NO WASTE MATERIALS SHALL BE EITHER BURNED OR BURIED, OR ALLOWED TO ENTER SURFACE WATERS OR STORM DRAINAGE SYSTEMS ON THE SITE. LIDDED CONTAINERS MUST BE PROVIDED FOR COLLECTION OF A WASTE MATERIAL INCLUDING CONSTRUCTION DEBRIS, TRASH, PETROLEUM PRODUCTS AND ANY HAZARDOUS MATERIAL ON SITE. ALL WASTE MATERIAL SHALL BE DISPOSED OF AT FACILITIES APPROVED FOR THAT MATERIAL.

C. HAZARDOUS OR TOXIC MATERIAL HANDLING:

CONSTRUCTION VEHICLE MAINTENANCE, FUELING AND LUBRICATING, AND FUEL AND LUBRICANT STORAGE SHALL BE RESTRICTED TO A SINGLE LOCATION ON THE SITE AT ANY ONE TIME AND THAT SITE SHALL BE ADEQUATELY DIKED TO PREVENT ANY SPILLED CHEMICALS FROM ENTERING THE DRAINAGE SYSTEM. MIXING, PUMPING, TRANSFERRING, OR OTHERWISE HANDLING CONSTRUCTION CHEMICALS SUCH AS FERTILIZER, LIME, ASPHALT, CONCRETE CURING COMPOUNDS, AND ALL OTHER POTENTIALLY HAZARDOUS MATERIALS SHALL BE PERFORMED IN A DESIGNATED AREA AWAY FROM ANY SURFACE WATER, STREAM, DITCH, OR STORM DRAIN. THE AREA SHALL BE ADEQUATELY DIKED TO PREVENT RAINFALL RUNOFF FROM TRANSPORTING THE MATERIALS ONTO ADJACENT SOILS.

D. HAZARDOUS SUBSTANCE SPILL HANDLING:

1. IF HAZARDOUS SUBSTANCES SUCH AS OIL, DIESEL FUEL, HYDRAULIC FLUID, ANTIFREEZE, ETC., ARE SPILLED, LEAKED, OR OTHERWISE RELEASED ONTO THE SOIL, THE ENTIRE VOLUME OF CONTAMINATED SOIL SHALL BE DUG UP AND DISPOSED OF AT A LICENSED SANITARY LANDFILL (NOT A CONSTRUCTION/ DEMOLITION DEBRIS LANDFILL). IN NO CASE MAY THE CONTAMINATED SOIL BE BURIED.
2. SPILLS ON ADJACENT PAVEMENT SHALL BE ABSORBED WITH SAWDUST, KITTY LITTER, OR A COMMERCIAL CHEMICAL ABSORBENT AND DISPOSED OF AT A LICENSED SANITARY LANDFILL.
3. HAZARDOUS OR INDUSTRIAL WASTES SUCH AS MOST SOLVENTS, GASOLINE, OIL–BASED PAINTS, AND CEMENT CURING COMPOUNDS REQUIRE SPECIAL HANDLING. FOR SUCH MATERIALS, CALL OHIO OEPA (1–800–282–9378).
4. SPILLS OF 25 GAL. OR MORE OF PETROLEUM PRODUCTS SHALL BE REPORTED TO OHIO EPA (1–800–282–9378), THE LOCAL FIRE DEPARTMENT, AND THE LOCAL EMERGENCY PLANNING COMMITTEE WITHIN 30 MINUTES OF THE DISCOVERY OF THE RELEASE.

E. SAWCUTTING AND SURFACING POLLUTION PREVENTION:

SLURRY AND CUTTINGS SHALL BE VACUUMED DURING CUTTING AND SURFACING OPERATIONS. THEY SHALL NOT REMAIN ON PERMANENT CONCRETE OR ASPHALT PAVEMENT OVERNIGHT. THEY SHALL NOT DRAIN INTO ANY NATURAL OR CONSTRUCTED DRAINAGE CONVEYANCE. COLLECTED SLURRY AND CUTTINGS SHALL BE DISPOSED OF IN A MANNER THAT DOES NOT VIOLATE GROUNDWATER OR SURFACE WATER QUALITY STANDARDS.

F. CONCRETE HANDLING:

1. UNUSED CONCRETE REMAINING IN THE TRUCK AND PUMP SHALL BE RETURNED TO THE ORIGINATING BATCH PLANT FOR RECYCLING. IT SHALL NOT BE DISPOSED OF ON SITE.
2. CONCRETE TRUCK CHUTES, PUMPS & INTERNALS SHALL BE WASHED OUT ONLY INTO PREPARED AREAS AWAITING INSTALLATION OF CONCRETE OR ASPHALT. IF NO PREPARED AREAS ARE AVAILABLE, WASHWATER AND LEFTOVER PRODUCT SHALL BE HELD IN A LINED SUMP. CONTAINED CONCRETE SHALL BE DISPOSED OF IN A MANNER THAT DOES NOT VIOLATE GROUNDWATER OR SURFACE WATER QUALITY STANDARD. SEE THE CWA DESIGNATIONS ON THE PLAN & CONTROL SHEETS OF THIS PLAN.

G. TRENCH AND GROUND WATER CONTROL:

1. TRENCH DEWATERING – TRENCH WATER IS USUALLY CONTAMINATED WITH SEDIMENT AND CANNOT BE ALLOWED TO MIX WITH SURFACE WATER WITHOUT APPROPRIATE TREATMENT. IF TRENCH DEWATERING IS REQUIRED, THE CONTRACTOR SHALL ENSURE THAT THE DISCHARGE PASSES THROUGH A CONSTRUCTED TEMPORARY SEDIMENT TRAP OR A FILTERING DEVICE SUCH AS AN AFC ENVIRONMENTAL, INC., "DIRT BAG".
2. GROUND WATER DISCHARGE – GROUND WATER IS NOT USUALLY CONTAMINATED WITH SEDIMENT AND MAY BE PUMPED AND DISCHARGED WITHOUT TREATMENT IF THE PROPER PRECAUTIONS ARE TAKEN. GROUND WATER MAY ONLY BE DISCHARGED DIRECTLY INTO SURFACE WATERS, STORM DRAINS, OR PERMANENTLY STABILIZED SURFACES. GROUND WATER THAT IS DISCHARGED ONTO UNSTABILIZED SURFACES OR THAT IS ALLOWED TO FLOW ACROSS UNSTABILIZED SURFACES MUST BE TREATED TO REMOVE SEDIMENT BEFORE BEING ALLOWED TO ENTER ANY SURFACE WATER OR STORM WATER CONVEYANCE SYSTEM.

OTHER CONSIDERATIONS:

A. SURFACE WATER PROTECTION:

NO CONSTRUCTION ACTIVITY OF ANY KIND SHALL BE PERFORMED IN ANY SURFACE WATERS (STREAMS, RIVERS, LAKES, WETLANDS, OR OTHER) ON THE SITE UNLESS THE CONSTRUCTION PLANS FOR THE PROJECT ARE IN COMPLIANCE WITH SECTIONS 404 AND 401 OF THE CLEAN WATER ACT AND THE APPROPRIATE PERMITS HAVE BEEN ACQUIRED FROM THE U.S. ARMY CORPS OF ENGINEERS (SECTION 404 REGULATION) AND/OR THE OHIO ENVIRONMENTAL PROTECTION AGENCY (SECTION 401 REGULATION).

B. INSPECTIONS:

INSPECTIONS ARE TO BE PERFORMED BY QUALIFIED PERSONS PROVIDED BY THE PERMITTEE AND THE INSPECTION LOGS ARE TO BECOME A PART OF THIS PLAN. INSPECTIONS SHALL BE CONDUCTED AT LEAST ONCE IN EVERY 7 CALENDAR DAYS AND WITHIN 24 HOURS AFTER ANY STORM EVENT GREATER THAN 0.5 INCH OF RAIN PER 24 HOUR PERIOD, FROM THE BEGINNING OF CONSTRUCTION THROUGH THE FINAL INSPECTION PRIOR TO THE NOTICE OF TERMINATION. A WRITTEN LOG OF OF THESE INSPECTIONS MUST BE MAINTAINED UNTIL THE SITE HAS BEEN DESIGNATED AS COMPLETE AND STABILIZED BY THE SWCD. THE LOG SHOULD INDICATE THE DATES OF INSPECTIONS, INSPECTOR, WEATHER CONDITIONS, OBSERVATIONS, ACTIONS TAKEN/NEEDED TO CORRECT THE PROBLEMS, AND DATE THE CORRECTIVE MEASURE(S) WAS COMPLETED. ANY NEEDED REPAIRS SHALL BE MADE WITHIN 3 DAYS OF INSPECTION OBSERVANCE.

C. MAINTENANCE:

ALL TEMPORARY AND PERMANENT CONTROL PRACTICES SHALL BE REPAIRED AND MAINTAINED IN ACCORDANCE WITH THE TIME REQUIREMENTS SHOWN ON THIS SHEET TO ASSURE THE CONTINUED PERFORMANCE OF THEIR FUNCTION. IN ORDER TO ACCOMPLISH THIS, THERE SHALL BE SUFFICIENT EQUIPMENT, MATERIALS, AND PERSONNEL AVAILABLE AT ALL TIMES TO MAKE ANY REPAIRS OR REPLACEMENTS THAT ARE NECESSARY.

D. SUB–LOTS WITHIN THE DEVELOPMENT:

NOT APPLICABLE

E. TEMPORARY STABILIZATION:

DISTURBED AREAS MORE THAN 50 FEET FROM A STREAM AND REMAINING DORMANT FOR 14 DAYS OR MORE MUST BE SEEDED TO A TEMPORARY COVER WITHIN 7 DAYS OF LAST DISTURBANCE.

F. PERMANENT STABILIZATION:

DISTURBED AREAS REMAINING DORMANT FOR OVER A YEAR AND AT FINAL GRADE WILL HAVE A PERMANENT VEGETATIVE COVER APPLIED WITHIN 7 DAYS OF LAST DISTURBANCE.

G. STRUCTURAL EROSION CONTROL:

ALL PERIMETER CONTROLS AND SEDIMENT BASINS MUST BE INSTALLED WITHIN 7 DAYS OF THE COMMENCEMENT OF GRUBBING ACTIVATES AND PRIOR TO GRADING THE AREAS THEY WILL ADDRESS.

H. TEMPORARY SEEDING: (SEE TABLE ON SHEET 9)

TEMPORARY SEEDING SHALL BE APPLIED ON EXPOSED SOIL WHERE ADDITIONAL WORK IS NOT SCHEDULED FOR MORE THAN 14 DAYS. IF THE AREA IS TO REMAIN IDLE FOR MORE THEN ONE YEAR PERMANENT SEEDING MEASURES SHALL BE TAKEN.

BEFORE SEEDING IS APPLIED THE SEEDBED SOIL SHALL CONSIST OF LOOSE PULVERIZED SOIL CLEANED OF AND LARGE ROCKS AND DEBRIS THAT WOULD INTERFERE WITH THE SEEDING OPERATIONS.

THE SEED SHALL BE APPLIED UNIFORMLY WITH A CYCLONE SPREADER, FRILL, CULTI–PACKER SEEDER OR HYDROSEED. IF POSSIBLE THE SEED SHALL BE COVERED AND LIGHTLY TAMPED INTO PLACE.

IF AN AREA FAILS TO HAVE ADEQUATE COVERAGE TO PREVENT EROSION THEN RESEEDING SHOULD BE DONE AS SOON AS THE PROBLEM AREA IS IDENTIFIED.

IF SEEDING IS PLACED DURING DRY/HOT SUMMER DAYS THEN THE AREA SHALL BE WATERED AT 1 INCH PER WEEK.

I. MULCHING:

MULCH MAY BE REQUIRED THROUGHOUT CONSTRUCTION TO LIMIT EROSION IN AREAS THAT ARE BARE OF VEGETATION. IT MAY BE USED IN CONJUNCTION WITH SEEDING OR ALONE TO PROVIDE EROSION CONTROL WHEN THE SEASON DOES NOT ALLOW GRASS TO GROW.

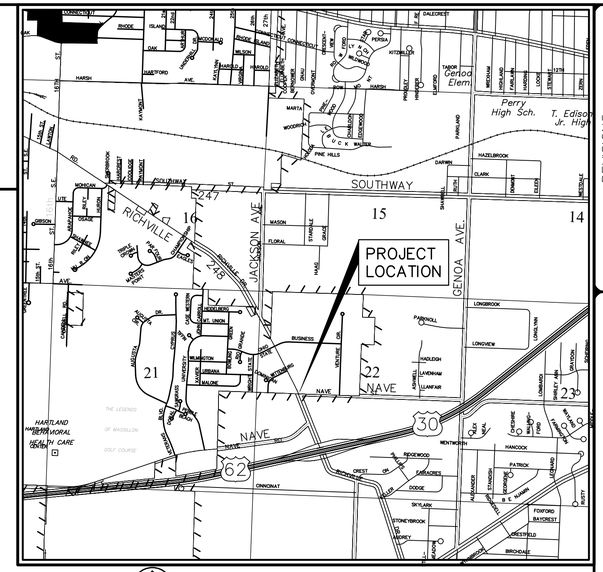
J. PERMANENT SEEDING: (SEE TABLE 7.10.1 ON SHEET 9)

PERMANENT SEEDING SHALL BE APPLIED TO ANY DISTURBED AREA OR PORTION OF DISTURBED AREA THAT HAS REACHED FINAL GRADE. PERMANENT SEEDING MAY BE COMPLETED IN PHASES IF WORK IS REQUIRED IN OTHER AREAS BUT HAVE REACH COMPLETION IN SOME. IF WORK SHALL REMAIN IDLE FOR ONE YEAR OR GREATER THEN PERMANENT SEEDING SHALL APPLIED.

K. INSPECTION:

EROSION AND SEDIMENT CONTROL MUST BE INSPECTED ONCE EVERY 7 DAYS AND FOLLOWING STORM EVENTS WITH 0.5 INCH OR GREATER RAINFALL DURING A 24 HOUR PERIOD. A WRITTEN LOG OF THESE INSPECTIONS MUST BE MAINTAINED THROUGHOUT CONSTRUCTION. THE LOG SHOULD INDICATE THE DATES OF INSPECTIONS, INSPECTOR, INSPECTION WEATHER CONDITIONS, OBSERVATIONS, ACTIONS TAKEN TO CORRECT PROBLEMS, AND THE DATE THE ACTION WAS TAKEN.

1. IF THE INSPECTION REVEALS THAT A CONTROL PRACTICE IS IN NEED OF REPAIR OR MAINTENANCE, WITH THE EXCEPTION OF A SEDIMENT SETTLING POND, IT SHALL BE REPAIRED OR MAINTAINED WITHIN 3 DAYS OF THE INSPECTION. SEDIMENT SETTLING PONDS SHALL BE REPAIRED OR MAINTAINED WITHIN 10 DAYS OF THE INSPECTION.
2. IF THE INSPECTION REVEALS THAT A CONTROL PRACTICE FAILS TO PERFORM ITS INTENDED FUNCTION AND THAT ANOTHER, MORE APPROPRIATE CONTROL PRACTICE IS REQUIRED, THE SWP3 SHALL BE AMENDED AND THE NEW CONTROL PRACTICE SHALL BE INSTALLED WITHIN 10 DAYS OF THE INSPECTION.
3. IF THE INSPECTION REVEALS THAT A CONTROL PRACTICE HAS NOT BEEN IMPLEMENTED IN ACCORDANCE WITH THE SCHEDULE CONTAINED IN PART III.G.1.H OF THIS PERMIT, THE CONTROL PRACTICE SHALL BE IMPLEMENTED WITHIN 10 DAYS FROM THE DATE OF THE INSPECTION. IF THE INSPECTION REVEALS THAT THE PLANNED CONTROL PRACTICE IS NOT NEEDED, THE RECORD SHALL CONTAIN A STATEMENT OF EXPLANATION AS TO WHY THE CONTROL PRACTICE IS NOT NEEDED.



LOCATION MAP
LATITUDE: 40° 46' 07" LONGITUDE: 81° 28' 58"

DESIRABLE CONSTRUCTION SEQUENCE

CONTACT STARK SOIL & WATER CONSERVATION DISTRICT TO SCHEDULE A PRE–CONSTRUCTION MEETING AT (303) 451–7645 PRIOR TO ANY EARTH MOVING ACTIVITY.

1. INSTALL SOIL STABILIZATION AND SEDIMENT CONTROL PRACTICES
   CONSTRUCTION ROAD ENTRANCE(S)
   DIVERSIONS
   APPROPRIATE SEDIMENT BARRIERS
2. GRADE SITE/STOCKPILE TOPSOIL
   RIGHT OF WAY DIVERSIONS/WATER BARS
   APPLY VEGETATIVE COVER TO AREAS TO BE DORMANT FOR 14 DAYS OR MORE
3. PRESERVE AND PROTECT EXISTING VEGETATION
4. INSTALL STORMWATER MANAGEMENT MEASURES
   DITCHES AND DITCH LININGS
5. TEMPORARY VEGETATIVE STABILIZATION
   TEMPORARY SEEDING
   VEGETATIVE FILTERS
   MULCHING
6. INSTALL ROAD SUBGRADE
   AGGREGATE COVER
7. NOT USED
8. SURFACE ROADS (PAVING)
9. PERMANENT VEGETATIVE STABILIZATION
   PERMANENT OR DORMANT SEEDING
   SODDING (WHERE REQUIRED)
10. FINAL SITE STABILIZATION
    FINAL LANDSCAPING
    REMOVE TEMPORARY SEDIMENT CONTROL MEASURES
11. FINAL SITE INSPECTION
    45 DAYS AFTER FINAL SITE STABILIZATION IS COMPLETE

TYPICAL SOIL PROTECTION CHART

STABILIZATION TYPE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
PERMANENT SEEDING			A			*	*		A			
DORMANT SEEDING	B		B									
TEMPORARY SEEDING			C			*	D *		D			
SODDING			E **						E			
MULCHING	F											F

A = KENTUCKY BLUEGRASS AT 90 LB/AC MIXED WITH PERENIAL RYEGRASS AT 30 LB/AC
B = KENTUCKY BLUEGRASS AT 135 LB/AC MIXED WITH PERENIAL RYEGRASS AT 45 LB/AC PLUS 2 TONS/AC STRAW MULCH
C = SPRING OATS AT 100 LB/AC
D = WHEAT OR CEREAL RYE AT 150 LB/AC
E = SOD
F = STRAW MULCH AT 2 TONS/AC
* = IRRIGATION NEEDED DURING JUNE AND JULY
** = IRRIGATION NEEDED FOR 2–3 WEEKS AFTER APPLYING SOD

CERTIFICATION:

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHERED AND EVALUATED THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR THE GATHERING OF THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.

FILTER, INC. DATE
MR. DAN MATTHEW

OWNER:
FILTERS, INC.
2780 RICHVILLE DRIVE SE
MASSILLON, OHIO 44646
CONTACT: DAN MATTHEW
PH: 330–834–3000

DEVELOPER:
IVAN WEAVER CONSTRUCTION, INC.
124 N. MILL ST.
P.O. BOX 258
FREDRICKSBURG, OHIO 44627
CONTACT: MARK YODER
PH: 330–695–3461
marky@weaverconstruction.com

ESTIMATED START DATE: 09–15–2021
ESTIMATED COMPLETION DATE: 11–31–2021

INDEX OF SHEETS

SWP3 – COVER SHEET ____ 7
SWP3 – SITE PLAN ____ 8
SWP3 – DETAILS ____ 9

SWP3 – TITLE SHEET

REVISIONS
COUNTY/CITY REVIEW 9/28/2021

PARTNERS
31100 Solon Road, Suite G
Solon, Ohio 44139
PH: 1(800)763–1363

SWP3 – TITLE SHEET
2021 RJ MATTHEWS PLANT ADDITION
LOCATED IN THE CITY OF MASSILLON
STARK COUNTY, OHIO
FOR: IVAN WEAVER CONSTRUCTION, INC.

DRAWN BY: CM
CHECKED BY: RN
DATE 08–12–2021

SHEET 7 OF 9

PROJ.# 2156.01

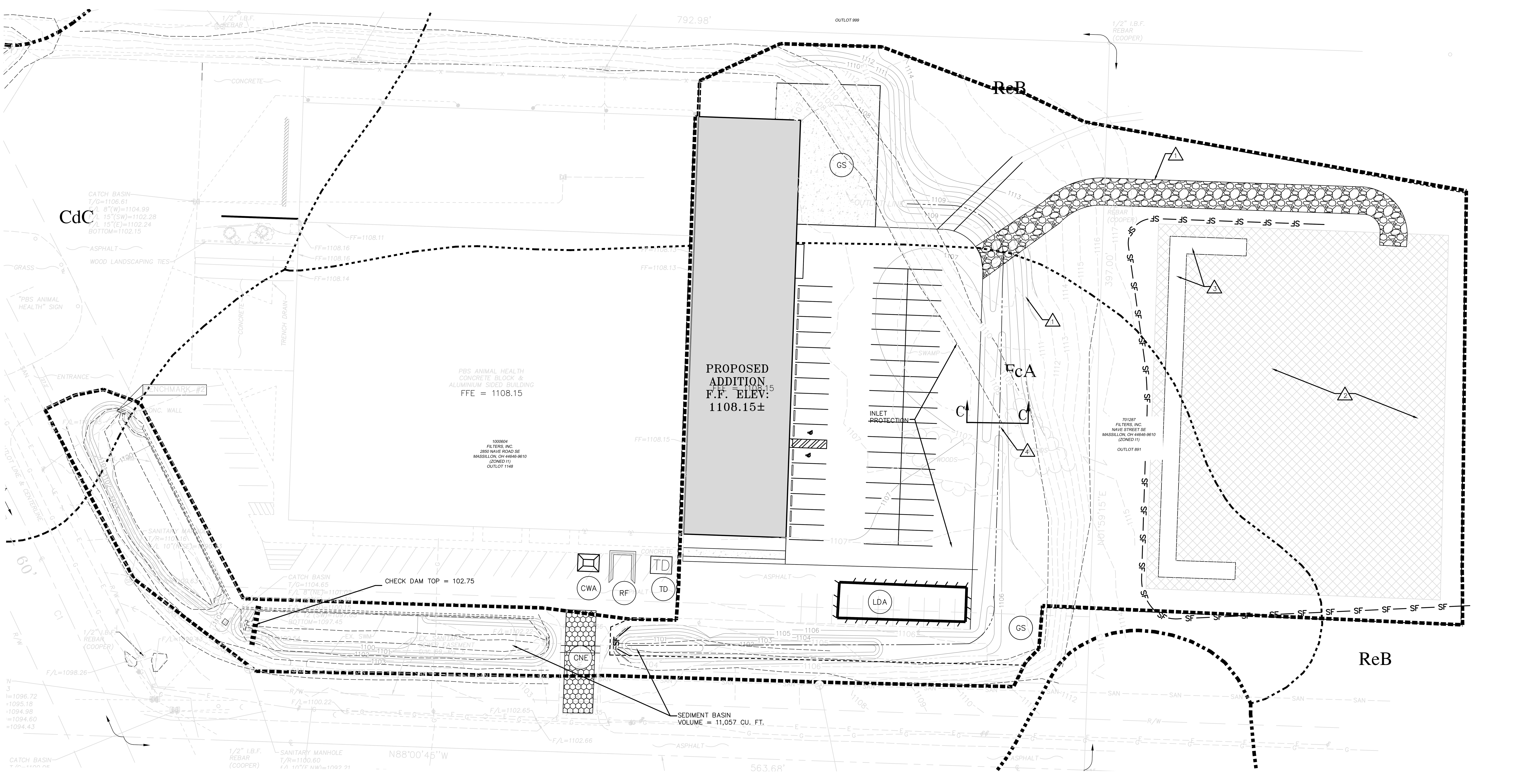
C:\Users\Corinna\OneDrive – Partners Environmental\Documents\RJ Mathews\07–ESC PLANS.dwg 9/28/2021

KEY NOTES: △#

1. CONTRACTOR SHALL CONSTRUCT A TEMPORARY ACCESS DRIVE TO THE AREA PROPOSED TO STORE THE EXCESS DIRT FROM THE PROPOSED BUILDING AND PAVING IMPROVEMENTS. THIS DRIVE SHALL BE 16' WIDE AND WITH A COMPACTED SUBGRADE ONLY. FOLLOWING COMPLETION OF EARTHWORK PLACE 4" OF TOPSOIL ON DRIVE AREA AND SEED/MULCH.
2. AREA FOR STOCK PILING OF EXCESS TOPSOIL AND SPOILS.
3. PLACE TOPSOIL AND SATURATED SOILS REMOVED FROM THE CONSTRUCTION SITE ON EXISTING EMBANKMENT. MAX HEIGHT 4'.
4. SEE DETAIL SECTION C–C ON SHEET 10 OF 10 FOR GRASS SWALE DETAIL.

LEGEND

▬ ▬ ▬		WORK LIMIT AREA = 4.306± Ac.
— SF — SF —	SFF	SILT FENCE AS PER SPECIFICATIONS LISTED IN SECTION 6.3 OF RWLD.
■	CIP	INLET PROTECTION PER SPECIFICATIONS FOR GEOTEXTILE – STONE INLET PROTECTION AS LISTED IN SECTION 6.4 OF RWLD.
■	GIP	INLET PROTECTION PER SPECIFICATIONS FOR GEOTEXTILE INLET PROTECTION AS LISTED IN SECTION 6.4 OF RWLD.
▨	CNE	CONSTRUCTION ENTRANCE AS PER SPECIFICATIONS LISTED IN SECTION 7.4 OF RWLD (75 LF)
▨	MAT	EROSION CONTROL MATTING AS PER SPECIFICATIONS LISTED IN SECTION 7.12 OF RWLD
— - - —	GS	GRASSED SWALE
- - - - - Sg		SOIL DESCRIPTION CALLOUT
⊠	CWA	CONCRETE WASH AREA
▬///	LDA	LAYDOWN AREA WITH STONE BASE SIMILAR TO CONSTRUCTION ENTRANCE EXCEPT ONLY 4" THICK
▬ · ▬	CP	CONTRACTOR PARKING AREA WITH STONE BASE SIMILAR TO CONTRUCTION ENTRANCE EXCEPT 4" THICK
TD	TD	TRASH DUMPSTER
⊐	RF	REFUELING AREA AS PER SPECIFICATIONS LISTED IN SECTION 8.1 OF RWLD.



SWP3 – SITE PLAN

1" = 30' HORIZONTAL SCALE
0 15 60

REVISIONS
1 COUNTY/CITY REVIEW 9/28/2021

PARTNERS
31100 Solon Road, Suite G
Solon, Ohio 44139
PH: 1(800)763-1363

STATE OF OHIO ROGER CLEVELAND NEWBERRY 45 REGISTERED PROFESSIONAL ENGINEER

SWP – SITE PLAN
2021 RJ MATTHEWS PLANT ADDITION
LOCATED IN THE CITY OF MASSILLON
STARK COUNTY, OHIO
FOR: IVAN WEAVER CONSTRUCTION, INC.

DRAWN BY: CM
CHECKED BY: RCN
DATE 08-12-2021

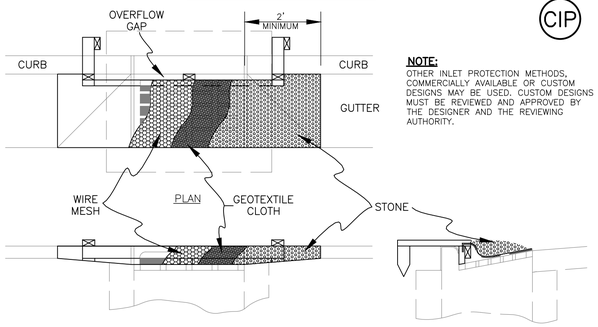
SHEET 8 OF 9

PROJ.# 2156.01

C:\Users\Corinna\OneDrive – Partners Environmental\Documents\RJ Mathews\07-ESC PLANS.dwg 9/28/2021

CURB INLET PROTECTION

CIP



NOTE:
OTHER INLET PROTECTION METHODS, COMMERCIALLY AVAILABLE OR CUSTOM DESIGNS MAY BE USED. CUSTOM DESIGNS MUST BE REVIEWED AND APPROVED BY THE DESIGNER AND THE REVIEWING AUTHORITY.

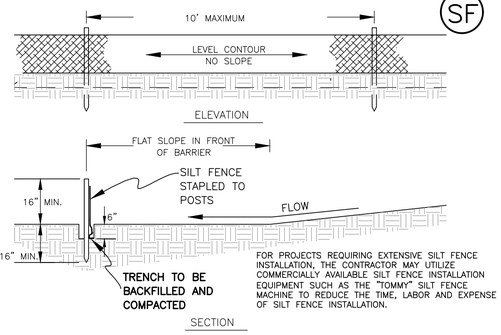
FOR ADDITIONAL DETAILS SEE RAINWATER AND LAND DEVELOPMENT

SPECIFICATIONS

1. INLET PROTECTION MUST BE INSTALLED AT EACH CURB INLET PROVIDING ACCESS TO A STORM DRAIN THAT DOES NOT OUTLET INTO A SEDIMENT TRAP OR SEDIMENT BASIN.
2. INLET PROTECTION MUST BE INSTALLED AT THE FIRST INLET DOWNSTREAM OF SEDIMENT OBSERVED IN THE GUTTER SECTION.
3. INLET PROTECTION SHALL BE CONSTRUCTED EITHER BEFORE UPSLOPE LAND DISTURBANCE BEGINS OR BEFORE THE STORM DRAIN BECOMES OPERATIONAL.
4. THE WOODEN FRAME IS TO BE CONSTRUCTED OF 2" X 4" CONSTRUCTION–GRADE LUMBER. THE END SPACERS SHALL BE A MINIMUM OF 1' BEYOND BOTH ENDS OF THE THROAT OPENING. THE ANCHORS SHALL BE NAILED TO 2x4 STAKES DRIVEN ON THE OPPOSITE SIDE OF THE CURB.
5. THE WIRE MESH SHALL BE OF SUFFICIENT STRENGTH TO SUPPORT FABRIN AND STONE. IT SHALL BE A CONTINUOUS PIECE WITH A MINIMUM WIDTH OF 30" AND 4' LONGER THAN THE THROAT LENGTH OF THE INLET, 2' ON EACH SIDE.
6. GEOTEXTILE CLOTH SHALL HAVE AN EQUIVALENT OPENING SIZE (EOS) OF 20–40 SIEVE AND BE RESISTANT TO SUNLIGHT. IT SHALL BE AT LEAST THE SAME SIZE AS THE WIRE MESH.
7. THE WIRE MESH AND GEOTEXTILE CLOTH SHALL BE FORMED TO THE CONCRETE GUTTER AND AGAINST THE FACE OF THE CURB ON BOTH SIDES OF THE INLET AND SECURELY FASTENED TO THE 2x4 FRAME.
8. TWO–INCH STONE SHALL BE PLACED OVER THE WIRE MESH AND GEOTEXTILE IN SUCH A MANNER AS TO PREVENT WATER FROM ENTERING THE INLET UNDER OR AROUND THE GEOTEXTILE CLOTH.

SILT FENCE

SF



FOR PROJECTS REQUIRING EXTENSIVE SILT FENCE INSTALLATION, THE CONTRACTOR MAY UTILIZE COMMERCIALLY AVAILABLE SILT FENCE INSTALLATION EQUIPMENT SUCH AS THE "TOMMY" SILT FENCE MACHINE TO REDUCE THE TIME, LABOR AND EXPENSE OF SILT FENCE INSTALLATION.

FOR ADDITIONAL DETAILS SEE RAINWATER AND LAND DEVELOPMENT

SPECIFICATIONS

1. SILT FENCE SHALL BE CONSTRUCTED BEFORE UPSLOPE LAND DISTURBANCE BEGINS.
2. ALL SILT FENCE SHALL BE PLACED AS CLOSE TO THE CONTOUR AS POSSIBLE SO THAT WATER WILL NOT CONCENTRATE AT LOW POINTS IN THE FENCE AND SO THAT SMALL SWALES OR DEPRESSIONS WHICH MAY CARRY SMALL CONCENTRATED FLOWS TO THE SILT FENCE ARE DISSIPATED ALONG ITS LENGTH.
3. TO PREVENT WATER PONDED BY THE SILT FENCE FROM FLOWING AROUND THE ENDS, EACH END SHALL BE CONSTRUCTED UPSLOPE SO THAT THE ENDS ARE AT A HIGHER ELEVATION.
4. WHERE POSSIBLE, SILT FENCE SHALL BE PLACED ON THE FLATTEST AREA AVAILABLE.
5. WHERE POSSIBLE, VEGETATION SHALL BE PRESERVED FOR 5' (OR AS MUCH AS POSSIBLE) UPSLOPE FROM THE SILT FENCE. IF VEGETATION IS REMOVED, IT SHALL BE REESTABLISHED WITHIN 7 DAYS FROM THE INSTALLATION OF THE SILT FENCE.
6. THE HEIGHT OF THE SILT FENCE SHALL BE A MINIMUM OF 16" ABOVE THE ORIGINAL GROUND SURFACE.
7. THE SILT FENCE SHALL BE PLACED IN A TRENCH CUT A MINIMUM OF 6" DEEP. THE TRENCH SHALL BE CUT WITH A TRENCHER, CABLE LAYING MACHINE, OR OTHER SUITABLE DEVICE WHICH WILL INSURE AN ADEQUATELY UNIFORM TRENCH DEPTH.
8. THE SILT FENCE SHALL BE PLACED WITH THE STAKES ON THE DOWNSLOPE SIDE OF THE GEOTEXTILE AND SO THAT 8" OF CLOTH ARE BELOW THE GROUND SURFACE. EXCESS MATERIAL SHALL LAY ON THE BOTTOM OF THE 6" DEEP TRENCH. THE TRENCH SHALL BE BACKFILLED AND COMPACTED.
9. SEAMS BETWEEN SECTIONS OF SILT FENCE SHALL BE OVERLAPPED WITH THE END STAKES OF EACH SECTION WRAPPED TOGETHER BEFORE DRIVING INTO THE GROUND.
10. MAINTENANCE – SILT FENCE SHALL ALLOW RUNOFF TO PASS ONLY AS DIFFUSE FLOW THROUGH THE GEOTEXTILE. IF RUNOFF TOPS THE SILT FENCE, FLOWS UNDER OR AROUND THE ENDS, OR IN ANY OTHER WAY BECOMES CONCENTRATED FLOW, ONE OF THE FOLLOWING SHALL BE PERFORMED, AS APPROPRIATE:
    1) THE LAYOUT OF THE SILT FENCE SHALL BE CHANGED.
    2) ACCUMULATED SEDIMENT SHALL BE REMOVED, OR
    3) OTHER PRACTICES SHALL BE INSTALLED.

CRITERIA FOR SILT FENCE MATERIALS

1. FENCE POSTS – THE LENGTH SHALL BE A MINIMUM OF 32" LONG. WOOD POSTS WILL BE 2–BY–2" HARDWOOD OF SOUND QUALITY. THE MAXIMUM SPACING BETWEEN POSTS SHALL BE 10 FT.
2. SILT FENCE FABRIC – SEE CHART BELOW

FABRIC PROPERTIES	VALUES	TEST METHOD
GRAB TENSILE STRENGHT	90 LB. MINIMUM	ASTM D 1682
MULLEN BURST STRENGTH	190 PSI MINIMUM	ASTM D 3786
SLURRY FLOW RATE	0.3 GAL./MIN./SQ. FT. MAXIMUM	
EQUIVALENT OPENING SIZE	40–80	US STD. SIEVE, CW–02215
ULTRAVIOLET RADIATION STABILITY	90% MINIMUM	ASTM–G–26

3. Satisfactory establishment may require re-fertilizing the stand in the second growing season.
    - Do not fertilize cool season grasses in late May through July (i.e. Kentucky Bluegrass, Orchardgrass, Perrenial Ryegrass, Smooth Brome, Fescues, Timothy, Reed Canarygrass and Garrison Grass)
    - Grass that looks yellow may be nitrogen deficient. In lieu of a soil test, an application of 50 lbs. of N-P-K per acre in early spring will help cool season grasses compete against weeds or grow more successfully.
    - Do not use nitrogen fertilizer if the stand contains more than 20 percent legumes.
4. Long-term maintenance fertilization rates shall be established by following soil test recommendations or by using the rates shown in Table 2.

Table 7.10.1Maintenance for Permanent Seedings Fertilization and Mowing

Mixture	Formula	Lbs./ Acre	Lbs./1,000 sq.ft.	Time	Mowing
Creeping Red Fescue Ryegrass Kentucky Bluegrass	10-10-10	500	12	Fall, yearly or as needed	Not closer than 3"
Tall Fescue	10-10-10	500	12		Not closer than 4"
Turf-type Fescue	10-10-10	500	12		
Crown Vetch Fescue	0-20-20	400	10	Spring, yearly following establishment and every 4-7 years thereafter	Do not mow
Flat Pea Fescue	0-20-20	400	10		Do not mow

Note: Following soil test recommendations is preferred to fertilizer rates shown above.

5. Consider mowing after plants reach a height of 6 to 8 inches. Mow grasses tall, at least 3 inches in height and minimize compaction during the mowing process. Vegetation on structural practices such as embankments and grass-lined channels need to be mowed only to prevent woody plants from invading the stand.

Common Problems / Concerns

- Insufficient topsoil or inadequately tilled, limed, and/or fertilized seedbed - results in poor establishment of vegetation.
- Unsuitable species or seeding mixture - results in competition with the perennials.
- Nurse crop rate too high in the mixture - results in competition with the perennials.
- Seeding done at the wrong time of year - results in poor establishment of vegetation, also plant hardiness is significantly decreased.
- Mulch rate inadequate - results in poor germination and failure.

Specifications
for
Temporary Seeding

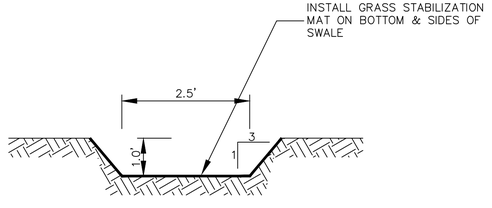
Table 7.8.1 Temporary Seeding Species Selection

Seeding Dates	Species	Lb./1000 ft2	Lb./Acre
March 1 to August 15	Oats	3	128 (4 bushel)
	Tall Fescue	1	40
	Annual Ryegrass	1	40
	Perennial Ryegrass	1	40
	Tall Fescue	1	40
	Annual Ryegrass	1	40
	Annual Ryegrass	1.25	55
	Perennial Ryegrass	3.25	142
	Creeping Red Fescue	0.4	17
	Kentucky Bluegrass	0.4	17
	Oats	3	128 (3 bushel)
	Tall Fescue	1	40
	Annual Ryegrass	1	40
August 16th to November	Rye	3	112 (2 bushel)
	Tall Fescue	1	40
	Annual Ryegrass	1	40
	Wheat	3	120 (2 bushel)
	Tall Fescue	1	40
	Annual Ryegrass	1	40
	Perennial Rye	1	40
	Tall Fescue	1	40
	Annual Ryegrass	1	40
	Annual Ryegrass	1.25	40
	Perennial Ryegrass	3.25	40
	Creeping Red Fescue	0.4	40
	Kentucky Bluegrass	0.4	
November 1 to Feb. 29	Use mulch only or dormant seeding		

Note: Other approved species may be substituted.

1. Structural erosion and sediment control practices such as diversions and sediment traps shall be installed and stabilized with temporary seeding prior to grading the rest of the construction site.
2. Temporary seed shall be applied between construction operations on soil that will not be graded or reworked for 21 days or greater. These idle areas shall be seeded within 7 days after grading.
3. The seedbed should be pulverized and loose to ensure the success of establishing vegetation. Temporary seeding should not be postponed if ideal seedbed preparation is not possible.
4. Soil Amendments—Temporary vegetation seeding rates shall establish adequate stands of vegetation, which may require the use of soil amendments. Base rates for lime and fertilizer shall be used.
5. Seeding Method—Seed shall be applied uniformly with a cyclone spreader, drill, cultipacker seeder, or hydroseeder. When feasible, seed that has been broadcast shall be covered by raking or dragging and then lightly tamped into place using a roller or cultipacker. If hydroseeding is used, the seed and fertilizer will be mixed on-site and the seeding shall be done immediately and without interruption.

GS

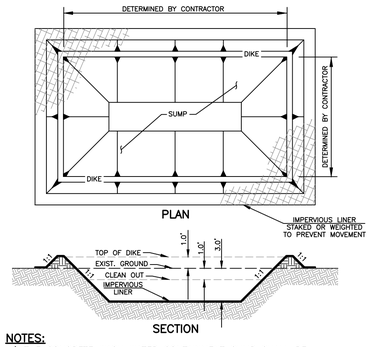


SECTION C–C
GRASSED SWALE
SCALE: NONE

CONCRETE WASH WATER CONTAINMENT SUMP

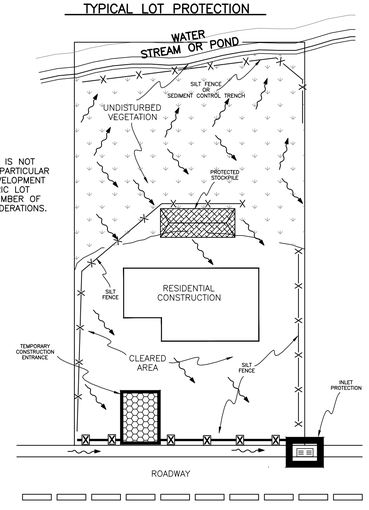
CWA

SCALE: NONE



NOTES:
1.) THE CONCRETE WASH WATER CONTAINMENT SUMP SHALL BE EXCAVATED AND LINED PRIOR TO THE SCHEDULING OF ANY CONCRETE DELIVERIES TO THE SITE.
2.) THE CAPACITY OF THE SUMP SHALL BE DETERMINED BY THE CONTRACTOR AND BASED ON HIS ESTIMATE OF THE VOLUME OF WASH WATER REQUIRED BY THE PROJECT AND THE FREQUENCY OF EMPTYING THE SUMP.
3.) CONCRETE WASH WATER SHALL NOT BE ALLOWED TO FLOW TO STREAMS, DITCHES, STORM DRAINS, OR ANY OTHER WATER CONVEYANCE.

TYPICAL LOT PROTECTION



NOTE –
THE LOT SHOWN IS NOT BASED ON ANY PARTICULAR LOT IN THIS DEVELOPMENT BUT IS A GENERIC LOT INDICATING A NUMBER OF POSSIBLE CONSIDERATIONS.

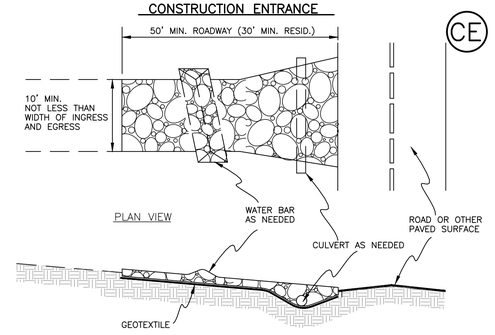
SPECIFICATIONS

1. EXISTING VEGETATION SHALL BE RETAINED ON IDLE PORTIONS OF THE BUILDING LOTS FOR AS LONG AS CONSTRUCTION OPERATIONS ALLOW. CLEARING SHALL BE DONE SO ONLY ACTIVE WORKING AREAS ARE BARE.
2. TEMPORARY SEED (ANNUAL RYE, OATS, ETC.) AND/OR MULCH SHALL BE APPLIED TO AREAS, SUCH AS STOCKPILES, THAT ARE BARE AND NOT ACTIVELY BEING WORKED. THIS SHALL APPLY TO AREAS THAT WILL NOT BE REWORKED FOR 14 DAYS OR MORE.
3. STOCKPILES EXCAVATED FROM BASEMENTS SHALL BE SITUATED AWAY FROM STREETS, SWALES, OR OTHER WATERWAYS AND SHALL BE SEEDED AND/OR MULCHED.
4. SILT FENCE SHALL CONTROL SHEET FLOW RUNOFF FROM THE BUILDING LOT. IT SHALL NOT BE CONSTRUCTED IN CHANNELS OR AREAS OF CONCENTRATED FLOW. OTHER SEDIMENT CONTROLS SUCH AS INLET PROTECTION AND SEDIMENT TRAPS SHALL ALSO BE USED AS NEEDED TO CONTROL SEDIMENT RUNOFF.
5. CONSTRUCTION VEHICLE ACCESS SHALL BE LIMITED TO ONE ROUTE, TO THE GREATEST EXTENT PRACTICAL. THE ACCESS SHALL BE GRAVEL OR CRUSHED ROCK APPLIED TO THE DRIVEWAY AREA.
6. MUD TRACKED ONTO THE STREET OR SEDIMENT SETTLED AROUND CURB INLET PROTECTION SHALL BE REMOVED DAILY OR AS NEEDED TO PREVENT IT FROM ACCUMULATING. IT SHALL BE REMOVED BY SHOVELLING AND SCRAPING AND SHALL NOT BE WASHED OFF PAVED SURFACES OR INTO STORM DRAINS.

THIS "TYPICAL LOT" IS REPRESENTATIVE ONLY. EROSION AND SEDIMENT CONTROL FOR SPECIFIC LOTS MUST ACCOUNT FOR THE ACTUAL SIZE AND SHAPE OF THE LOT, THE ACTUAL GROUND SLOPES THAT EXIST AS WELL AS THE FINISHED SLOPES, THE ACTUAL LIMITS OF NECESSARILY DISTURBED AREAS, AND ACCESS TO THE PUBLIC ROADWAY FOR BOTH CONSTRUCTION VEHICLES AND STORM WATER RUNOFF.

CONSTRUCTION ENTRANCE

CE



FOR ADDITIONAL DETAILS SEE RAINWATER AND LAND DEVELOPMENT

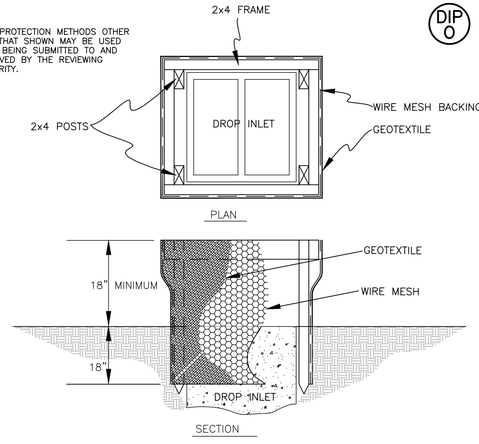
SPECIFICATIONS

1. STONE SIZE – TWO INCH STONE SHALL BE USED, OR RECYCLED CONCRETE EQUIVALENT.
2. LENGTH – THE CONSTRUCTION ENTRANCE SHALL BE AS LONG AS REQUIRED TO STABILIZE HIGH TRAFFIC AREAS BUT NOT LESS THAN 50' (EXCEPT ON SINGLE RESIDENCE LOT WHERE A 30' MINIMUM LENGTH APPLIES.
3. THICKNESS – THE STONE LAYER SHALL BE AT LEAST 12" THICK.
4. WIDTH – THE ENTRANCE SHALL BE AT LEAST 10' WIDE, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS AND EGRESS OCCURS.
5. BEDDING – A GEOTEXTILE SHALL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING THE STONE. IT SHALL HAVE A GRAB TENSILE STRENGTH OF AT LEAST 200 LB. AND A MULLEN BURST STRENGTH OF AT LEAST 190 LB.
6. CULVERT – A PIPE OR CULVERT SHALL BE CONSTRUCTED UNDER THE ENTRANCE IF NEEDED TO PREVENT SURFACE WATER FLOWING ACROSS THE ENTRANCE FROM BEING DIRECTED OUT ONTO PAVED SURFACES.
7. WATER BAR – A WATER BAR SHALL BE CONSTRUCTED AS PART OF THE CONSTRUCTION ENTRANCE IF NEEDED TO PREVENT SURFACE RUNOFF FROM FLOWING THE LENGTH OF THE CONSTRUCTION ENTRANCE AND OUT ONTO PAVED SURFACES.
8. MAINTENANCE – TOP DRESSING OF ADDITIONAL STONE SHALL BE APPLIED AS CONDITIONS DEMAND. MUD SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC ROADS, OR ANY SURFACE WHERE RUNOFF IS NOT CHECKED BY SEDIMENT CONTROLS, SHALL BE REMOVED IMMEDIATELY. REMOVAL SHALL BE ACCOMPLISHED BY SCRAPING OR SWEEPING.
9. CONSTRUCTION ENTRANCES SHALL NOT BE RELIED UPON TO REMOVE MUD FROM VEHICLES AND PREVENT OFF–SITE TRACKING. VEHICLES THAT ENTER AND LEAVE THE CONSTRUCTION–SITE SHALL BE RESTRICTED FROM MUDDY AREAS.

DROP INLET PROTECTION

DIP O

NOTE
INLET PROTECTION METHODS OTHER THAN THAT SHOWN MAY BE USED AFTER BEING SUBMITTED TO AND APPROVED BY THE REVIEWING AUTHORITY.



FOR ADDITIONAL DETAILS SEE RAINWATER AND LAND DEVELOPMENT

SPECIFICATIONS

1. INLET PROTECTION SHALL BE CONSTRUCTED EITHER BEFORE UPSLOPE LAND DISTURBANCE BEGINS OR BEFORE THE STORM DRAIN BECOMES OPERATIONAL.
2. THE EARTH AROUND THE INLET SHALL BE EXCAVATED COMPLETELY TO A DEPTH OF AT LEAST 18 INCHES.
3. THE WOODEN FRAME SHALL BE CONSTRUCTED OF 2"x 4" CONSTRUCTION GRADE LUMBER. THE 2x4 POSTS SHALL BE DRIVEN 1' INTO THE GROUND AT THE FOUR CORNERS OF THE INLET AND THE TOP PORTIONS OF 2x4 FRAME ASSEMBLED USING THE OVERLAP JOINT SHOWN. THE TOP OF THE FRAME SHALL BE AT LEAST 6" BELOW ADJACENT ROADS IF PONDED WATER WOULD POSE A SAFETY HAZARD TO TRAFFIC.
4. WIRE MESH SHALL BE OF SUFFICIENT STRENGTH TO SUPPORT FABRIC WITH WATER FULLY IMPOUNDED AGAINST IT. IT SHALL BE STRETCHED TIGHTLY AROUND THE FRAME AND FASTENED SECURELY TO THE FRAME.
5. GEOTEXTILE SHALL HAVE AN EQUIVALENT OPENING SIZE OF 20–40 SIEVE AND BE RESISTANT TO SUNLIGHT. IT SHALL BE STRETCHED TIGHTLY AROUND THE FRAME AND FASTENED SECURELY TO IT. IT SHALL EXTEND FROM THE TOP OF THE FRAME TO 18" BELOW THE INLET NOTCH ELEVATION. THE GEOTEXTILE SHALL OVERLAP ACROSS ONE SIDE OF THE INLET SO THE ENDS OF THE CLOTH ARE NOT FASTENED TO THE SAME POST.
6. BACKFILL SHALL BE PLACED AROUND THE INLET IN COMPACTED 6" LAYERS UNTIL THE EARTH IS EVEN WITH THE NOTCH ELEVATION ON ENDS AND TOP ELEVATION ON SIDES.
7. A COMPACTED EARTH DIKE OR A CHECK DAM SHALL BE CONSTRUCTED IN THE DITCH LINE BELOW THE INLET IF THE INLET IS NOT IN A DEPRESSION AND IF RUNOFF BYPASSING THE INLET WILL NOT FLOW TO A SETTLING POND. THE TOP OF THE EARTH DIKE SHALL BE AT LEAST 6' HIGHER THAN THE TOP OF THE FRAME.

REVISIONS

PARTNERS
31100 Solon Road, Suite G
Solon, Ohio 44139
PH: 1(800)763–1363

STATE OF OHIO
EDGER
EVERETT
NEWFRED
REGISTERED
PROFESSIONAL
ENGINEER

SWP – NOTES AND DETAILS

2021 RJ MATTHEWS PLANT ADDITION

LOCATED IN THE CITY OF MASSILLON
STARK COUNTY, OHIO

FOR: IVAN WEAVER CONSTRUCTION, INC.

DRAWN BY: CM
CHECKED BY: RCN
DATE 08–12–2021

SHEET 9 OF 9

PROJ.# 2156.01

SWP3 – NOTES AND DETAILS

C:\Users\Corinna\OneDrive – Partners Environmental\Documents\RJ Mathews\07–ESC PLANS.dwg 9/28/2021