

_		ABB
1.	THE BASIS OF BEARINGS FOR THIS SURVEY IS OHIO STATE PLANE, NORTH ZONE NAD83(2011) GRID NORTH.	AFN
0	THE MAD AND THE SUDVEY ON WHICH IT IS DASED HAVE DEEN DEEDADED WITHOUT THE DENEET OF	С
۷.	A TITLE REPORT AND ARE NOT INTENDED TO REFLECT ALL EASEMENTS, ENCUMBRANCES, OR OTHER	CCMR
	CIRCUMSTANCES AFFECTING THE TITLE TO THE PROPERTY SHOWN HEREON.	FD
3.	PERTINENT RECORDS USED ARE AS SHOWN HEREON AND LISTED BELOW AND INCLUDE CUYAHOGA	Р
	COUNTY TAX MAPS AND CITY OF CLEVELAND SURVEY RECORDS.	R
	R1 PLAT OF LOT SPLIT AND CONSOLIDATION V 387 P 50 CCMR	S
	R2 COOK AND HECHLER'S RE-SUBDIVISION V 21 P 24 CCMR	V
	R3 CITY OF CLEVELAND SURVEY RECORDS	
	R4 STONE HICKOX HOSMER BATES AND SMITH'S ALLOTMENT V 5 P 61 CCMR	

STORM & SANITARY MANHOLE INVERTS

SNMH 40015 RIM=696.47 INV=683.67 NO. 2 BR E, W

STMH 40021 RIM=697.11 INV=692.81 12" VCP NW TOP OF WATER=692.81

BOTTOM=690.61 STMH 40030 RIM=697.06 INV=689.81 12" VCP E, W TOP OF DIRT=690.36

SNMH 40037 RIM=697.97 INV=685.40 NO. 2 BR W INV=685.77 18" VCP E

STMH 40040 RIM=696.94 INV=691.79 12" VCP SW TOP OF WATER=692.64 BOTTOM=690.44

CB 60026 RIM=697.62 TOP OF WATER=694.12 BOTTOM=691.27

SNMH 60027 RIM=698.51 INV=689.56 12" VCP N INV=689.96 8" VCP E INV=690.11 8" VCP E

SNMH 60032 RIM=699.02 INV=686.40 NO. 2 BR W INV=686.52 18" VCP E

SNMH 60040 RIM=697.37 INV=684.52 NO. 2 BR W INV=686.94 15" VCP NE INV=684.67 NO. 2 BR E

CB 60044 RIM=697.70 -FULL OF WATER, NO PIPES VISIBLE TOP OF WATER=694.70 BOTTOM=691.70

SNMH 60055 RIM=699.96 INV=692.56 12" VCP W INV=692.66 8" VCP E INV=692.96 12" VCP S

STMH 60056 RIM=697.54 $INV=690.44\pm 12"$ VCP TRAP SE INV=690.47 12" VCP NW INV=693.29 6" VCP N

CB 60057 RIM=697.50 -FULL OF DIRT, NO PIPES VISIIBLE TOP OF WATER-694.54 BOTTOM=692.94

CB 60058 RIM=697.05 -FULL OF WATER, NO PIPES VISIBLE TOP OF WATER=695.05 BOTTOM=692.75

CB 60060 RIM=697.22 -FULL OF WATER, NO PIPES VISIBLE TOP OF WATER=695.42 BOTTOM=692.97

CB 60061 RIM=697.38 INV=693.53 6" VCP SE BOTTOM=693.13

- TO EXCAVATION.
- CLEVELAND WATER.

BENCH MARKS

BM 1

BM 2 #6007 FULLERTON AVE.

SURVEYOR'S NOTES

1. HORIZONTAL DATUM IS OHIO STATE PLANE, NORTH ZONE NAD83(2011) GRID NORTH. 2. VERTICAL DATUM IS NAVD 1988.

3. PERTINENT RECORDS USED ARE AS SHOWN HEREON.

4. THIS MAP AND THE SURVEY ON WHICH IT IS BASED HAVE BEEN PREPARED WITHOUT THE BENEFIT OF A TITLE REPORT AND ARE NOT INTENDED TO REFLECT ALL EASEMENTS, ENCUMBRANCES, OR OTHER CIRCUMSTANCES AFFECTING THE TITLE TO THE PROPERTY SHOWN HEREON.

5. THE UTILITIES, SEWERS AND THEIR LOCATIONS SHOWN HEREON ARE DERIVED FROM A COMBINATION OF FIELD SURVEYING OF VISIBLE UTILITY STRUCTURES, AVAILABLE PLANS AND A LEVEL C SUBSURFACE UTILITY INVESTIGATION. ACTUAL LOCATION OF UTILITIES MAY VARY FROM THE DEPICTED LOCATIONS. OTHER UNKNOWN UTILITIES MAY EXIST AND NECESSARY PRECAUTIONS SHOULD BE FOLLOWED WHEN EXCAVATING. ADDITIONAL INVESTIGATION SUCH AS VIDEOTAPING PIPE RUNS, NON-DESTRUCTIVE EXPOSURE OF UTILITIES MAY DETERMINE THE UNKNOWN UTILITY INFORMATION. CONTACT OHIO UTILITIES PROTECTION SERVICE (OUPS) AT 1-800-362-2764 PRIOR

6. AS OF JUNE 3, 2022, THE FOLLOWING COMPANIES HAVE RESPONDED TO THE INITIAL OUPS REQUEST B204700317 & B204700339 FOR UTILITY PLANS: AT&T, CEI FIRST ENERGY, CITY OF CLEVELAND DIVISION OF TRAFFIC ENGINEERING, DOMINION EAST OHIO GAS, NEORSD, CITY OF CLEVELAND WATER POLLUTION CONTROL & CITY OF

RAILROAD SPIKE IN TELEPHONE POWER POLE IN FRONT OF HOUSE #5808 GERTRUDE AVE.

ELEV=698.93

RAILROAD SPIKE IN POWER POLE IN FRONT OF HOUSE

ELEV-699.34

UTILITY REFERENCES

♦ FIELD LOCATED UTILITY MARKINGS. \Diamond DOMINION EAST OHIO GAS PLANS.

ABBREVIATIONS

AFN	AUTOMATIC FILE NUMBER
ASPH	ASPHALT
BLDG	BUILDING
BR	BRICK
CCMR	CUYAHOGA COUNTY MAP RECORDS
C.I.	CAST IRON
C.L.F.	CHAIN LINK FENCE
CONC	CONCRETE
ELEC	ELECTRIC
INV	INVERT
LP	LOW PRESSURE
MD	MEDIUM
NO.	NUMBER
Р	PAGE
PI	PLASTIC
R	RECORD
S	SURVEYED
S/L	SUBLOT
STL	STEEL
V	VOLUME
VCP	VITRIFIED CLAY PIPE
VERT	VERTICAL

	CONTROL POINT TABLE					
POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION		
200	652693.46	2202122.21	698.02	CNPT MAGS		
201	652677.05	2201727.92	696.37	CNPT MAGS		
202	652404.61	2201743.35	697.12	CNPT MAGS		
203	652426.92	2202144.04	699.43	CNPT MAGS		

LEGEND

VALVE

KS CONTROL POINT	ຜູ້ນ
BENCH MARK	φ
UTILITY IDENTIFICATION	<u> </u>
CATCH BASIN	Б
CATCH BASIN	P
STORM MANHOLE	Þ
SANITARY MANHOLE	Б
WATER VALVE	
FIRE HYDRANT	0
WATER METER	zw.
GAS VALVE	C.
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X	
W	
G	
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ST	
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OHE/T	
OHE	
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	KS CONTROL POINT BENCH MARK UTILITY IDENTIFICATION CATCH BASIN STORM MANHOLE SANITARY MANHOLE WATER VALVE FIRE HYDRANT WATER METER GAS VALVE

LIGHT POLE GUY ANCHOR TELEPHONE POWER POLE FLAG TELEPHONE POWER LIGHT POLE POWER LIGHT POLE SIGN BOLLARD BUSH/SAPLING FENCE LINE PROPERTY LINE CENTER LINE RIGHT OF WAY WATER LINE GAS LINE UNDERGROUND ELECTRIC LINE STORM LINE SANITARY LINE OVERHEAD ELEC/TELEPHONE OVERHEAD ELECTRIC OVERHEAD TELEPHONE • GUARD RAIL

SHRUB LINE

5 DISTRIC ЧŰ OF ULLERTON ELEMENTARY SC TOPOGRAPHIC SUR CITY OF CLEVELAND, COUNTY OF CUY. EDUCATION \bigcirc SCHO E U U OF CLEVELAND BOARD Ψ 亡 S101 SHEET 2 L OF JOB NO. 21281

REVISIONS

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\21281\CIVIL 3D 2019\CURRENT DRAWINGS\BASE DRAWINGS\DWG\21281_Fullerton School_base01.dwg, Plotted: Jun 07, 202





DEMOLITION LEGEND:



GENERAL NOTES:

- 1. EXISTING CONDITIONS AND PARCEL BOUNDARY PERFORMED BY KS ASSOCIATES ON JUNE 6, 2022.
- 2. CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL LOCAL AND STATI PERMITS REQUIRED FOR DEMOLITION AND SITE RESTORATION WORK. CONTRACTOR IS RESPONSIBLE FOR THE REMOVAL AND DISPOSAL OF
- ALL TRASH, DEBRIS AND ORGANIC MATERIAL IN A LAWFUL MANNER. 4. CONTRACTOR SHALL USE CAUTION WHILE WORKING NEAR EXISTING
- UNDERGROUND UTILITIES. 5. CONTRACTOR IS RESPONSIBLE FOR REPLACING ANY ONSITE AND OFFSITE ITEMS DAMAGED DURING CONSTRUCTION IN THE SAME OR
- BETTER CONDITION THAN THEY WERE PRIOR TO CONSTRUCTION. 6. ALL EXISTING UTILITIES SERVICING THE SITE ARE TO BE REMOVED PE THE RELEVANT UTILITY COMPANY STANDARDS. ALL SEWERS ARE TO BE REMOVED AS NOTED. CONTRACTOR SHALL DETERMINE IF EXISTING UTILITIES ARE IN SERVICE AND/OR TAKING FLOW FROM OUTSIDE THE LIMITS OF WORK. IF SEWERS ARE FOUND TO BE TAKING FLOW FROM OUTSIDE WORK LIMITS, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER PRIOR TO PROCEEDING.
- PRE-DEMOLITION ASBESTOS SURVEY REPORT HAS BEEN SCHEDULED TO BE PERFORMED BUT HAS NOT BEEN COMPLETED TO DATE. CONTRACTOR SHALL BID HAZARDOUS WASTE REMOVAL AS ALTERNAT BID ITEM, CONTRACTOR SHALL COORDINATE THE ABATEMENT OF THE ASBESTOS BY RETAINING A CERTIFIED ASBESTOS ABATEMENT COMPANY THAT IS LICENSED BY THE OHIO DEPARTMENT OF HEALTH
- 8. CONTRACTOR SHALL NOT ACCESS ANY OF THE SURROUNDING PARCELS WITHOUT EXPRESSED WRITTEN CONSENT OF THE PROPER OWNER.
- 9. REFER TO SWPP PLAN, NOTES AND DETAILS PRIOR TO PROCEEDING WITH DEMOLITION ACTIVITIES.
- $\langle \# \rangle$ KEYNOTES:
- REMOVE ANY EXISTING BUILDING STRUCTURES, FLOOR SLABS, FOOTINGS, WALLS, FOUNDATIONS, BASEMENTS, PAVEMENT, FENCES, SHEDS, UTILITIES, CONSTRUCTION STRUCTURES, WALKS, ETC. CONTRACTOR SHALL FILL OPEN EXCAVATION WITH COMPACTED GRANULAR BACKFILL (95% MIN PROCTOR) MEETING THE REQUIREMENTS OF ODOT ITEM 304, OR APPROVED EQUAL. MATCH EXISTING GRADE.
- 2. CONTRACTOR SHALL REMOVE EXISTING FLAG POLES, BOLLARDS, CURBS, SIGNS, CONCRETE FOOTINGS, ETC WITHIN WORK LIMITS. 3. CONTRACTOR SHALL REMOVE EXISTING GUARDRAIL, POSTS, ETC.
- 4. CONTRACTOR SHALL SAWCUT PAVEMENT TO LEAVE A CLEAN EDGE. LOOSE OR BROKEN SEGMENTS OF PAVEMENT SHALL BE REMOVED PRIOR TO SAWCUTTING.
- 5. CONTRACTOR SHALL REMOVE ANY EXISTING GAS SERVICE LATERALS AND GAS METERS FOUND ON SITE AND TERMINATE SERVICE LATERAL PER GAS CO. REQUIREMENTS. COORDINATE WORK WITH THE DOMINION EAST OHIO AT LEAST 72 HOURS PRIOR TO START OF WORK.
- 6. CONTRACTOR SHALL REMOVE STORM SEWERS AND CATCH BASINS. THE TERMINATED PIPE END SHALL BE CAPPED AT THE PROPERTY LINE. CONTRACTOR SHALL VERIFY STORM ROUTING PRIOR TO START OF CONSTRUCTION.
- 7. CONTRACTOR SHALL REMOVE ANY EXISTING WATER SERVICE LATERALS, WATER SERVICE VALVES, AND WATER METERS. FOLLOW THE TERMINATION REQUIREMENTS OF CLEVELAND WATER AND WATER POLLUTION CONTROL AT LEAST 72 HOURS PRIOR TO START OF CONSTRUCTION.
- 8. CONTRACTOR SHALL REMOVE EXISTING SANITARY SERVICE LATERALS AND MANHOLES. THE TERMINATED PIPE ENDS SHALL BE TERMINATED PER SEWER DISTRICT. COORDINATE WORK WITH NORTH EAST REGIONAL SEWER DISTRICT AND WATER POLLUTION CONTROL AT LEAST 72 HOURS PRIOR TO START OF CONSTRUCTION.
- CONTRACTOR SHALL REMOVE EXISTING UNDERGROUND AND OVERHEAD ELECTRIC/COMMUNICATIONS/TELEPHONE SERVICE, TRANSFORMERS, POLES, ELECTRICAL BOXES, ETC. THE TERMINATIONS SHALL CONFORM WITH UTILITY REQUIREMENTS.
- CONTRACTOR SHALL REMOVE EXISTING LIGHT, POWER POLES, ELECTRIC BOXES, PADS, BUILDINGS, ETC. THE CONTRACTOR SHALL MODIFY THE EXISTING OVERHEAD WIRES PER THE DIRECTION OF THE OWNER AND UTILITY COMPANY. CONTACT UTILITY PROVIDERS AT LEAST 72 HOURS PRIOR TO DISCONNECTING WIRES TO ENSURE ALL DOWNSTREAM SERVICE AND APPURTENANCES REMAIN ACTIVE.
- CONTRACTOR SHALL REMOVE EXISTING TREES, SHRUBS AND ROOTS. CONTRACTOR SHALL PRESERVE AND PROTECT ANY TREES NOT MARKED WITH AN 'X' THROUGHOUT CONSTRUCTION.
- 12. CONTRACTOR SHALL REMOVE EXISTING CHAIN LINK FENCE, FENCE POSTS, FOOTINGS, ETC.
- 13. CONTRACTOR SHALL REMOVE ANY EXISTING CONCRETE WALL AND ASSOCIATED CONCRETE FOOTINGS.
- 14. CONTRACTOR TO REMOVE ANY APPRONS AT RIGHT OF WAY AND REPLACE WITH NEW CURB AND SIDEWALK.







LAYOUT AND GRADING LEGEND:



SPOT ELEVATION LEGEND:

BC	BOTTOM OF CURB
EX	EXISTING PAVEMENT
WK	SIDEWALK
TC	TOP OF CURB

GENERAL NOTES:

- 1. CONTRACTOR IS RESPONSIBLE FOR ALL NECESSARY EXCAVATION, OVER-EXCAVATION, BORROW PITS, SOIL MANAGEMENT, SOIL IMPORT, SOIL HAUL-OFF, PLACEMENT AND COMPACTION OF ALL NECESSARY SOIL TO OBTAIN PROPOSED GRADES SHOWN HEREIN.
- 2. CAD FILES AVAILABLE UPON REQUEST.

KEYNOTES:

1. PROPOSED TYPE 6 CURB PER DETAIL

2. PROPOSED SIDEWALK IN RIGHT-OF-WAY. SIDEWALK SHALL BE 4-INCH, 3000 PSI CONCRETE WITH LIGHT BROOM FINISH. REFER TO DETAIL.





- DESCRIPTIONS AND STANDARDS OF THE OHIO DEPARTMENT OF NATURAL RESOURCES RAINWATER AND LAND DEVELOPMENT
- GENERAL GUIDELINES AND SHALL NOT LIMIT THE RIGHT OF THE COUNTY SOIL AND WATER CONSERVATION DISTRICT TO IMPOSE, AT ANY TIME, ADDITIONAL, MORE STRINGENT REQUIREMENTS. NOR SHALL THE STANDARDS LIMITS THE RIGHT OF THE COUNTY TO
- 3. THE SWP3 PERMITTEE SHALL ASSIGN A QUALIFIED INSPECTOR TO CONDUCT INSPECTIONS TO ENSURE BMPS ARE FUNCTIONAL AND ARE IN ACCORDANCE WITH THE SWP3 AND THE PROPOSED
- 4. GREENLAND WILL PREPARE AND SUBMIT A NOTICE OF INTENT PERMIT FOLLOWING EACH SWP3 INSPECTION. A CHECKLIST MUST BE COMPLETED AND SIGNED. REFER TO OHC000005 PART III.G.2.i.
- 5. IF THE SWP3 INSPECTION PROCESS REQUIRES MAINTENANCE OF CONTROL PRACTICES, THE CONTRACTOR IS REQUIRED TO REPAIR THE CONTROL WITHIN 3 DAYS OF INSPECTION. CONTRACTOR AND SUB-CONTRACTORS ARE RESPONSIBLE FOR CO-PERMITTEE PERMIT
- 6. PER OHC000005 PERMIT, THE PERMITTEE SHALL KEEP RECORDS FOR A MINIMUM OF THREE YEARS AFTER TERMINATION OF
- 7. ANY CONTAMINATED SOILS FOUND ON SITE MUST BE TREATED AND/OR DISPOSED IN OHIO EPA APPROVED SOLID WASTE MANAGEMENT FACILITIES OR HAZARDOUS WASTE TREATMENT,
- 8. CONTRACTOR SHALL PROVIDE POSITIVE DRAINAGE AND ENSURE SURFACE DRAINAGE TOWARD ADJACENT PARCELS ARE NOT

- (REMOVE WHEN SITE IS STABILIZED AND APPROVED BY GSWCD)

EROSION AND SEDIMENT CONTROL SCHEDULE:

- 1. <u>INGRESS-EGRESS</u>: A STONE ACCESS DRIVE COMPLETE WITH UNDERLYING GEOTEXTILE FABRIC (20 FEET WIDE AND 50 FEET LONG) FOR INGRESS AND EGRESS AT THE SITE SHALL BE INSTALLED. THIS DRIVE SHALL BE THE ONLY ENTRANCE AND EXIT TO THE SITE AND SHALL BE USED TO CLEAN TIRES OF DEBRIS AND SOIL BEFORE LEAVING THE SITE. THE CONTRACTOR MAY PROPOSE ALTERNATE METHODS (I.E. TIRE WASHING STATION) TO THE ENGINEER FOR
- 2. SILT FENCE AND INLET PROTECTION: ALL SILT FENCE/SOCK SHALL BE INSTALLED PRIOR TO ANY EARTHWORK ACTIVITIES AT THE SITE IN THE LOCATION SHOWN PER PLAN. INSTALL INLET PROTECTION ON ALL
- REMAIN IDLE FOR MORE THAN FOURTEEN (14) DAYS SHALL BE PROPERLY SEEDED AND STRAW MULCHED WITHIN SEVEN (7) DAYS OF
- PER EVERY (10) FEET OF CURB, AT A WIDTH OF THIRTY (30) FEET OF THE ENTIRE LENGTH OF THE LOT. WOOD CHIPS MAY BE USED AS AN ALTERNATE BUT MUST BE SPREAD AT A MINIMUM DEPTH OF FOUR INCHES OVER THE THIRTY-FOOT WIDTH AND MUST BE ACCOMPANIED BY A PROPERLY INSTALLED SILT FENCE. PERMANENT SEEDING SHALL
- MAINTENANCE: EROSION AND SEDIMENT CONTROLS SHALL BE INSPECTED EVERY SEVEN (7) DAYS OR WITHIN 24 HOURS OF A 0.5" OR GREATER RAINFALL EVENT. NECESSARY REPAIRS SHALL BE MADE AT THIS TIME.
- 6. SITE CLEANUP: DISPOSE IN PROPER TRASH RECEPTACLES. REMOVE REMAINING SILT FENCING INLET PROTECTION, AND ALL TEMPORARY BMPS AFTER REQUIRED PERMANENT VEGETATIVE COVER IS MET (85%).

	4230 River Street	Willoughby, Ohio 44094	440.269.3221	www.greenlandeng.com
FROJECT NAME: FULLERTON ELEMENTARY		VISIC	5920 FULLERTON AVENUE	CLEVELAND, OH 44105
DESIGN AND CONSTRUCTION DOCUMENTS AS INSTRUMENTS OF SERVICE ARE GIVEN IN CONFIDENCE AND REMAIN THE PROPERTY OF GREENLAND ENGINEERING. THE USE OF THIS DESIGN AND THESE CONSTRUCTION DOCUMENTS FOR PURPOSES OTHER THAN THE SPECIFIC PROJECT NAMED HEREIN IS STRICTLY PROHIBITED WITHOUT EXPRESSED WRITTEN CONSENT OF G R E E N L A N D E N G I N E R I N G	SHEET NAME:	STORM WATER POLLUTION PREVENTION PLAN		
		BY: BY: BER: D ER:		

STORM WATER POLLUTION PREVENTION PLAN IMPLEMENTATION SCHEDULE:

ITEMS LISTED IN THIS IMPLEMENTATION SCHEDULE ARE TO BE ADDRESSED CHRONOLOGICALLY IN THE ORDER THEY ARE LISTED. THIS IMPLEMENTATION SCHEDULE IS TO BE USED AS A GENERAL GUIDE FOR STORM WATER POLLUTION PREVENTION ITEMS. AT A MINIMUM, ALL EROSION AND SEDIMENT CONTROLS ARE TO BE INSPECTED AT LEAST ONCE EVERY 7 DAYS AND WITHIN 24 HOURS OF ANY STORM EVENT GREATER THAN 0.5 INCH PER 24 HOUR PERIOD. EROSION AND SEDIMENT CONTROLS THAT ARE FOUND TO BE IN NEED OF REPAIR DURING THE INSPECTION ARE TO BE REPAIRED WITHIN 3 DAYS OF THE INSPECTION.

- CONTRACTOR IS TO REVIEW THIS PLAN PRIOR TO INITIATING ANY WORK ON SITE AND FILE A NOTICE OF TERMINATION (NOT) WHEN SITE IS STABILIZED AND ACCEPTED BY THE OWNER, ARCHITECT, AND ENGINEER . THE CONTRACTOR IS ALSO RESPONSIBLE FOR REVIEWING AND OBTAINING AN NPDES CO-PERMITTEE PERMIT FROM THE OHIO EPA PRIOR TO INITIALIZATION OF WORK ON THE SITE. GREENLAND ENGINEERING WILL ASSIST OWNER IN COMPLETING AN NOTICE OF INTENT (NOI) PERMIT.
- CONSTRUCTION ACCESS DRIVE SHALL BE LIMITED AS SHOWN ON THE PLANS. ALL VEHICLES ENTERING THE SITE DURING CONSTRUCTION ARE TO USE THIS DRIVE FOR INGRESS AND EGRESS. THIS IS THE ONLY POINT OF INGRESS AND EGRESS TO BE USED DURING THE ENTIRE CONSTRUCTION PROCESS IN ORDER TO REDUCE CONSTRUCTION MATERIALS FROM BEING MOVED ONTO PUBLIC ROADWAYS. THE DRIVE IS TO BE INSPECTED FOR INTEGRITY AT THE END OF EACH DAY. REPAIRS ARE TO BE MADE AND THE DRIVE SHALL BE CLEANED AS NECESSARY.
- THE LIMITS OF DISTURBANCE/CLEARING SHALL BE STAKED OUT PRIOR TO THE START OF CONSTRUCTION ACTIVITIES.
- THE STAGING AREA IS TO BE INSTALLED AT THE LOCATION DEPICTED ON THIS SWPPP. ALL VEHICLES THAT ARE NOT IN USE OR ARE TO REMAIN OVERNIGHT ARE TO BE KEPT IN THE STAGING AREA AND SHALL NOT LIE IDLE IN ANY OTHER AREAS ON SITE.
- INSTALL THE CONCRETE WASHOUT PIT AND BRING WASTE CONTAINERS TO THE SITE IMMEDIATELY. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT WASTE CONTROL PROCEDURES ARE BEING PERFORMED TO PREVENT POLLUTION INTO THE STORM WATER SYSTEM DURING CONSTRUCTION.
- CONTRACTOR IS TO INSTALL ALL SEDIMENT AND EROSION CONTROL DEVICES PRIOR TO THE START OF DEMOLITION AND MAINTAIN THEM THROUGHOUT CONSTRUCTION. EROSION AND SEDIMENT CONTROLS ARE TO BE INSTALLED WITHIN 7 DAYS OF GRUBBING. THESE ITEMS INCLUDE, BUT ARE NOT LIMITED TO, FILTER SOCKS, SILT FENCE, DANDY BAGS AND INLET PROTECTION. SILT FENCE POSTS ARE TO BE SET A MAXIMUM OF 6' FROM EACH OTHER AND THE ENDS OF THE GEOTEXTILE FABRIC OF THE SILT FENCE ARE TO BE SLOPED TOWARD THE UP SLOPE OF THE AREA IT IS SERVING TO PREVENT RUNOFF FROM GOING AROUND THE ENDS OF THE SILT FENCE. SILT FENCE IS TO BE INSPECTED AT THE BEGINNING OF EACH DAY AND REPAIRS ARE TO BE MADE IMMEDIATELY. REPAIRS MAY INCLUDE, BUT ARE NOT LIMITED TO THE FOLLOWING: TEARS IN THE GEOTEXTILE FABRIC, COLLAPSED POSTS FROM TOO MUCH RUNOFF OF SILT/SOIL, MISDIRECTION OF SEDIMENT DUE TO IMPROPER INSTALLATION OF EROSION, VANDALISM, ETC.
- THE CONTRACTOR MUST INSTALL EROSION CONTROLS AND SEDIMENT CONTROLS INCLUDING, BUT NOT LIMITED TO, FILTER SOCKS, SILT FENCE, DIVERSION BERMS SEDIMENT TRAPS) AS MORE AREAS BECOME DISTURBED THROUGHOUT CONSTRUCTION. THIS SHALL BE DONE PRIOR TO DISTURBING PREVIOUSLY UNDISTURBED LANDS.
- ANY SOIL TO BE STRIPPED OF ITS TOP ORGANIC LAYER SHALL COMMENCE ONLY AFTER ALL SEDIMENT AND EROSION CONTROLS HAVE BEEN INSTALLED AND INSPECTED FOR PROPER OPERATION.
- CLEARING OF THE SITE AND STRIPPING OF EXISTING TOPSOIL WILL BE PERFORMED IN A MANNER THAT DOES NOT DISTURB NEIGHBORING LAND OR PUBLIC ROADWAYS FROM THEIR NORMAL CONDITION. DURING AND AT THE END OF EACH DAY OF TOPSOIL STRIPPING, THE DISTURBED SOIL IS TO BE TREATED WITH OEPA RECOMMENDED DUST SUPPRESSANTS SO THAT DUST DOES NOT ACCUMULATE NOR HAVE THE ABILITY TO SPREAD ONTO NEIGHBORING PROPERTIES, PUBLIC ROADWAYS, OR INTO STORM SEWER STRUCTURES DURING NORMAL WORKING HOURS.
- 10. ALL REUSABLE EXCAVATED EARTH IS TO BE PLACED AT A SEPARATE STOCKPILE LOCATION, WHICH IS TO BE SURROUNDED BY SILT FENCE OR FILTER SOCK AT THE END OF THE FIRST DAY OF BUILDING OF THE STOCKPILES. IF THE STOCKPILE IS TO REMAIN UNDISTURBED FOR LONGER THAN A PERIOD OF 7 DAYS, THEN TEMPORARY SEEDING MUST BE PERFORMED ON THE STOCKPILE AS PER SPECIFICATIONS OF THE SWPPP. SILT FENCE OR FILTER SOCKS MUST BE PLACED AROUND THE PERIMETER OF THE SOIL STOCKPILE ONCE IT HAS BEEN ESTABLISHED.
- 11. TEMPORARY SEEDING IS TO TAKE PLACE AS PER THE SPECIFICATIONS DESCRIBED ON THE PLANS. TEMPORARY SEEDING IS TO BE PLACED IN AREAS THAT WILL REMAIN IDLE FOR LONGER THAN 7 DAYS.
- CONSTRUCTION VEHICLES USED IN CONCRETE RELATED WORK ARE TO BE CLEANED OFF AT THE CONCRETE WASH OUT AREA OR CONSTRUCTION ENTRANCE AS DEPICTED ON THIS SWPPP. THIS IS TO BE PERFORMED AT THE END OF EACH DAY OF CONCRETE DEMOLITION AND AT THE END OF ENTIRE CONCRETE DEMOLITION PORTION OF PROJECT. IF THE PRIMARY CONCRETE WASH OUT AREA BECOMES TOO HARD AND DOES NOT ALLOW THE CONCRETE WASH OFF TO PROPERLY WASH OUT, THEN A NEW WASH OUT AREA SHALL BE CREATED AND USED FOR CLEANING WHILE THE OTHER WASH OUT AREA IS REPAIRED.
- 13. ANY EXCAVATED UTILITY TRENCHES MUST BE STABILIZED AT THE END OF EACH DAY WITH GRAVEL BACKFILL FROM THE BOTTOM OF THE TRENCH TO THE SURFACE TO PREVENT EROSION OF THE TRENCH OVERNIGHT.
- 14. ALL SPARE AND WASTE CONSTRUCTION MATERIALS ARE TO BE DISPOSED OF IN WASTE CONTAINERS, WHICH ARE TO BE EMPTIED PRIOR TO REACHING THEIR MAXIMUM CAPACITY. SPARE CONSTRUCTION MATERIALS MAY ALSO BE TRANSPORTED OFFSITE TO AN APPROPRIATE LOCATION DETERMINED BY THE CONTRACTOR (I.E. THE CONTRACTOR'S STORAGE WAREHOUSE), OTHERWISE MATERIALS ARE TO BE DISPOSED OF AT AN OFFSITE CONSTRUCTION AND DEBRIS DEMOLITION LANDFILL AS PER ORC 3714.
- 15. IF TOXIC MATERIALS (I.E. FUEL) ARE INTENDED TO BE USED TO CLEAN THE MACHINERY, THE CLEANING MUST BE APPROVED BY THE ARCHITECT AND ENGINEER AND TO TAKE PLACE ON THE STAGING AREA. THE STAGING AREA MUST BE BARRICADED/BERMED AS TO NOT ALLOW RUNOFF FROM THE STAGING AREA ONTO PERMEABLE AREAS. THE TOXIC RUNOFF FROM CLEANING OF MACHINERY IS TO BE COLLECTED VIA VACUUM OR OTHER APPROVED METHODS, AND PLACED INTO BARRELS WHICH ARE TO BE DISPOSED OF OFF SITE AT A CONSTRUCTION AND DEBRIS DEMOLITION LANDFILL AS PER ORC 3714.

SITE PREPARATION AND EARTHWORK NOTES

EARTHWORK NOTES

1. THE RECOMMENDATIONS INCLUDED IN THIS REPORT ARE NOT BASED ON TEST BORINGS, OR ANY KNOWN KNOWLEDGE OF SUBSURFACE CONDITIONS AT THE SITE. ANY FUTURE PROJECT DEVELOPMENT'S EXTENT AND DESIGN ARE UNKNOWN. THE INCLUDED RECOMMENDATIONS MUST BE CONSIDERED PRELIMINARY IN NATURE. ALL RECOMMENDATIONS HAVE BEEN MAINTAINED ON A HIGHLY GENERALIZED PLAN AND ARE NOT TO BE CONSTRUED AS SPECIFIC AND/OR FINALIZED. A DETAILED SITE INVESTIGATION INCLUDING TEST BORINGS. LABORATORY TESTS AND ANALYSIS WILL BE REQUIRED PRIOR TO ANY FINAL DESIGN FOR FUTURE IMPROVEMENTS.

SITE PREPARATION

- FOLLOWING THE SITE CLEARING, STRIPPING AND UNDERCUTTING, AND PRIOR TO PLACING SUITABLE FILL, THE EXPOSED SUBGRADES SHOULD BE PROOFROLLED WITH A LOADED 20-TON TO 30-TON TANDEM-AXLE DUMP TRUCK UNTIL THE GRADE OFFERS A RELATIVELY UNVIELDING SURFACE, PER ODOT 204. AREAS OF EXCESSIVE YIELDING SHOULD BE EXCAVATED AND BACKFILLED WITH COMPACTED SUITABLE FILL OR THE UNSTABLE SOILS CAN BE STABILIZED. SUITABLE FILL WILL BE CONSIDERED BORROW MATERIAL FROM THE SITE, PACED IN LIFTS & COMPACTED PROPERLY WITH THE APPROPRIATE EQUIPMENT. IF MOISTURE CONTENT OR SATURATION IS AN ISSUE, DEWATERING MEASURES WILL BE TAKEN WHICH MAY INCLUDE UNDERDRAINS, REGRADING OF THE IMMEDIATE AREA OR INTERCEPTING SWALES OR FRENCH DRAINS AS NEEDED. AFTER THE EXISTING SUBGRADE MATERIALS ARE EXCAVATED PROPER CONTROL OF SUBGRADE COMPACTION AND THE PLACEMENT AND COMPACTION OF NEW FILL MATERIALS SHOULD BE PERFORMED.
- IT IS RECOMMENDED THAT THE SITE PREPARATION, PROOFROLLING AND EARTHWORK ACTIVITIES SHOULD BE PERFORMED DURING A PERIOD OF DRY WEATHER, WHICH CAN SIGNIFICANTLY REDUCE THE REQUIRED EXTENT OF SOIL STABILIZATION, DRAINAGE AND SURFACE REPAIRS.
- DURING SITE PREPARATION, BURN PITS, TRASH PITS OR OTHER ISOLATED DISPOSAL AREAS MAYBE ENCOUNTERED. ANY SUCH MATERIALS ENCOUNTERED DURING SITE WORK ON CONSTRUCTION SHOULD BE COMPLETELY EXCAVATED AND REMOVED FROM THE SITE. CONTRACTOR IS RESPONSIBLE TO GRADE AND SEAL SITE ON A DAILY BASIS TO ENSURE PROPER POSITIVE DRAINAGE DURING CONSTRUCTION. OTHERWISE AN
- ENGINEERED DEWATERING SYSTEM IS REQUIRED TO ELIMINATE RUNOFF.

SUITABLE FILL

- SUITABLE FILL MATERIALS SHALL CONSIST OF NON-EXPANSIVE MATERIALS, POTENTIALLY EXPANSIVE MATERIALS SHALL NOT BE USED AS SUITABLE FILL MATERIAL. MATERIALS SELECTED FOR USE AS SUITABLE FILL SHOULD NOT CONTAIN ORGANIC MATTER, WASTE CONSTRUCTION DEBRIS, OR OTHER DELETERIOUS MATERIALS, FILL MATERIALS SHOULD GENERALLY HAVE A STANDARD PROCTOR MAXIMUM DRY DENSITY GREATER THAN 110 POUNDS PER CUBIC FOOT (PCF), AN ATTERBERG LIQUID LIMIT LESS THAN 40, A PLASTICITY INDEX OF LESS THAN 20, AND A MAXIMUM PARTICLE SIZE OF 2 INCHES OR LESS. ODOT ITEM 304 OR APPROVED EQUAL MATERIAL SHALL BE USED.
- REPRESENTATIVE SAMPLES OF THE PROPOSED FILL MATERIAL SHOULD BE COLLECTED AT LEAST ONE WEEK PRIOR TO THE START OF THE FILLING OPERATIONS. THE SAMPLES SHOULD BE TESTED TO DETERMINE THE MAXIMUM DRY DENSITY, OPTIMUM MOISTURE CONTENT, PARTICLE SIZE DISTRIBUTION AND PLASTICITY CHARACTERISTICS. THESE TESTS ARE NEEDED TO DETERMINE IF THE MATERIAL IS ACCEPTABLE AS SUITABLE FILL AND FOR QUALITY CONTROL DURING THE COMPACTION PROCESS.
- THE FILL SHOULD BE PLACED IN LAYERS OF NOT MORE THAN 8 INCHES IN THICKNESS, WITH EACH LAYER BEING COMPACTED TO A MINIMUM DENSITY OF 95-98 PERCENT OF THE MAXIMUM DRY DENSITY AND WITH ± 2% OF THE OPTIMUM MOISTURE CONTENT, AS DETERMINED BY THE STANDARD PROCTOR METHOD ASTM D-698. MOISTURE CONTROL OF THE SUITABLE FILL MATERIALS MAY BE NECESSARY FOR COMPACTION. SUITABLE FILL OPERATIONS WILL REQUIRE MONITORING/TESTING BY A GEOTECHNICAL CONSULTANT TO ENSURE PROPER COMPACTION REQUIREMENTS ARE MET.
- CONTRACTOR IS RESPONSIBLE TO PROPERLY SCHEDULE GEOTECHNICAL ENGINEER. OWNER WILL PAY FOR GEOTECHNICAL TESTING. GROUNDWATER CONTROL AND DRAINAGE
- WATER MAY BE ENCOUNTERED DURING EXCAVATION AND DEMOLITION. ACCORDINGLY, A GRAVITY DRAINAGE SYSTEM, SUMP PUMP OR OTHER CONVENTIONAL DEWATERING PROCEDURE AS DEEMED NECESSARY BY THE FIELD CONDITIONS MAY BE NECESSARY. EVERY EFFORT SHOULD BE MADE TO KEEP THE EXCAVATIONS DRY IF WATER IS ENCOUNTERED
- POSITIVE SITE DRAINAGE SHOULD BE PROVIDED TO REDUCE INFILTRATION OF SURFACE WATER AROUND THE PERIMETER OF THE FILL AREA. OVERALL SITE AREA DRAINAGE IS TO BE ARRANGED IN A MANNER SUCH THAT THE POSSIBILITY OF WATER IMPOUNDING OVER THE STRUCTURAL FILL IS PREVENTED. IN INSTANCES WHERE TRENCH CONVEYANCE OF RUNOFF FROM THE SITE IS AN ISSUE, THE CONTRACTOR IS TO INSTALL BENTONITE CLAY DAMS AS NECESSARY TO MINIMIZE TRENCH CONVEYANCE OF RUNOFF FROM THE SITE.

EXCAVATIONS

- THE CONTRACTOR IS SOLELY RESPONSIBLE FOR DESIGNING AND CONSTRUCTING STABLE, TEMPORARY EXCAVATIONS AND SHOULD SHORE, SLOPE, OR BENCH THE SIDES OF THE EXCAVATIONS AS REQUIRED TO MAINTAIN STABILITY OF BOTH THE EXCAVATION SIDES AND BOTTOM. THE CONTRACTOR SHOULD EVALUATE THE SOIL EXPOSED IN THE EXCAVATIONS AS PART OF THE CONTRACTOR'S SAFETY PROCEDURES. IN NO CASE SHOULD SLOPE HEIGHT, SLOPE INCLINATION, OR EXCAVATION DEPTH INCLUDING UTILITY TRENCH EXCAVATION DEPTH, EXCEED THOSE SPECIFIED IN LOCAL, STATE AND FEDERAL SAFETY REGULATIONS
- MATERIALS REMOVED FROM THE EXCAVATION SHOULD NOT BE STOCKPILED IMMEDIATELY ADJACENT TO ANY EXCAVATIONS, AS THIS LOAD MAY CAUSE A SUDDEN COLLAPSE OF THE EMBANKMENT. WEATHER CONSIDERATIONS

THE SOILS COULD BE SENSITIVE TO DISTURBANCES CAUSED BY CONSTRUCTION TRAFFIC AND TO CHANGES IN MOISTURE CONTENT. DURING WET WEATHER PERIODS INCREASES IN THE MOISTURE CONTENT OF THE SOIL CAN CAUSE SIGNIFICANT REDUCTION IN THE SOIL STRENGTH AND SUPPORT CAPABILITIES. CARE SHOULD BE EXERCISED DURING THE GRADING OPERATIONS AT THE SITE. TRAFFIC OF HEAVY EQUIPMENT, INCLUDING HEAVY COMPACTION EQUIPMENT, MAY VERY WELL CREATE

- EXTENDED PERIOD OF TIME.

INSPECTION

DESCRIPTION

CONDITION WHERE PRACTICE APPLIES

WASTES GENERATED BY CONSTRUCTION ACTIVITIES (I.E. CONSTRUCTION MATERIALS SUCH AS PAINTS, SOLVENTS, FUELS, CONCRETE, WOOD, ETC.) MUST BE DISPOSED OF IN ACCORDANCE WITH ORC 3734 AND ORC 3714. HAZARDOUS AND TOXIC SUBSTANCES ARE USED ON VIRTUALLY ALL CONSTRUCTION-SITES. GOOD MANAGEMENT OF THESE SUBSTANCES IS ALWAYS NEEDED.

PLANNING CONSIDERATIONS

REDUCING POLLUTANTS OTHER THAN SEDIMENTS DEPENDS HEAVILY ON CONSTRUCTION PERSONNEL AND HOW THEY CARRY OUT THEIR OPERATIONS. TO HELP FACILITATE THIS, PLANS SHOULD CONTAIN STANDARD NOTES CLEARLY STATING REQUIREMENTS TO CONTRACTORS. IT ALSO MAY BE APPROPRIATE TO INCLUDE REQUIREMENTS FOR SPECIFIC PROVISIONS FOR HAZARDOUS MATERIALS STORAGE, HANDLING AND DISPOSAL.

REQUIREMENTS

EDUCATE CONSTRUCTION PERSONNEL, INCLUDING SUBCONTRACTORS WHO MAY USE OR HANDLE HAZARDOUS OR TOXIC MATERIALS, MAKING THEM AWARE OF THE FOLLOWING GENERAL GUIDELINES:

- PREVENT SPILLS
- USE PRODUCTS UP

4. CONSTRUCTION AND DEMOLITION DEBRIS (CD&D) DISPOSAL. CD&D WASTE MUST BE DISPOSED OF IN ACCORDANCE WITH ORC 3714 AT AN APPROVED OHIO EPA CD&D LANDFILL. CD&D WASTE IS DEFINED AS ALL MATERIALS ATTACHED TO A STRUCTURE, WHICH IS BEING DEMOLISHED (FOR MATERIALS CONTAINING ASBESTOS SEE ITEM 12).

- OR STORM DRAIN.
- 7
- 8. SYSTEM) PERMIT.

10

PUMPING AND A GENERAL DETERIORATION OF THE SOILS IN THE PRESENCE OF WATER. THEREFORE, THE GRADING SHOULD, IF AT ALL POSSIBLE, BE PERFORMED DURING A DRY SEASON. A LAYER OF CRUSHED STONE MAY BE REQUIRED TO ALLOW THE MOVEMENT OF CONSTRUCTION TRAFFIC OVER THE SITE DURING THE RAINY SEASON. THE CONTRACTOR SHOULD MAINTAIN POSITIVE SITE DRAINAGE AND IF WET/PUMPING CONDITIONS OCCUR, THE CONTRACTOR WILL BE RESPONSIBLE TO OVER EXCAVATE THE WET SOILS AND REPLACE THEM WITH A PROPERLY COMPACTED ENGINEERED FILL CONSISTING OF STOCKPILED ONSITE SOILS MEETING THE MINIMUM ENGINEERED FILL REQUIREMENTS.

SWP3 INSPECTIONS-CONTRACTOR RESPONSIBILITY

TEMPORARY BMPS ARE TO BE INSPECTED WEEKLY AND AFTER EVERY RAIN EVENT OF 0.5 INCHES WITHIN A 24 HOUR PERIOD.

AN INSPECTION WAIVER REQUEST IS TO BE SUBMITTED TO THE OEPA TO REDUCE THE AMOUNT OF MONTHLY INSPECTION IF THE SITE IS TO LIE DORMANT FOR AN

INSPECTIONS ARE TO BE PERFORMED BY "QUALIFIED INSPECTION PERSONNEL." INSPECTION RECORDS ARE TO BE KEPT FOR A MINIMUM 3 YEARS AFTER THE TERMINATION OF CONSTRUCTION ACTIVITIES.

AN INSPECTION CHECKLIST WILL BE COMPLETED AND SIGNED BY THE INSPECTOR AFTER EVERY INSPECTION.

NON-SEDIMENT BMPS ARE TO BE REPAIRED WITHIN 3 DAYS OF INSPECTION AND SEDIMENT PONDS ARE TO BE REPAIRED AND CLEANED OUT WITHIN 10 DAYS OF INSPECTION. BMPS THAT ARE NOT MEETING THE INTENDED FUNCTION OR HAVE NOT BEEN INSTALLED ARE TO BE REINSTALLED/INSTALLED WITHIN 10 DAYS OF

ADDITIONAL CONSTRUCTION SITE POLLUTION CONTROLS

(PER ODNR RAINWATER & LAND DEVELOPMENT MANUAL)

ALTHOUGH SEDIMENT IS THE PRIMARY POLLUTANT OF CONCERN RESULTING FROM CONSTRUCTION ACTIVITY, OTHER POLLUTANTS NEED TO BE CONSIDERED AS WELL THESE INCLUDE PETROCHEMICALS: FUEL, OIL AND ASPHALT: AND CONSTRUCTION CHEMICALS AND MATERIALS: PAINTS, SOLVENTS, FERTILIZER, SOIL ADDITIVES, CONCRETE WASH WATER, ETC, ALSO INCLUDED ARE SOLID WASTES AND CONSTRUCTION DEBRIS, KEEPING THESE SUBSTANCES FROM POLLUTING RUNOFF CAN BE ACCOMPLISHED TO A LARGE EXTENT THROUGH GOOD HOUSEKEEPING AND FOLLOWING THE MANUFACTURER'S RECOMMENDATIONS FOR THEIR USE AND DISPOSAL.

GOOD EROSION AND SEDIMENT CONTROL WILL PREVENT SOME POLLUTANTS IN ADDITION TO SEDIMENT FROM LEAVING THE SITE; HOWEVER, POLLUTANTS CARRIED IN SOLUTION OR AS SURFACE FILMS ON RUNOFF WATER WILL BE CARRIED THROUGH MOST EROSION AND SEDIMENT CONTROL PRACTICES. THESE POLLUTANTS BECOME NEARLY IMPOSSIBLE TO CONTROL ONCE CARRIED OFFSITE IN RUNOFF. CONSTRUCTION WASTES, MANY CONTAINING TOXIC CHEMICALS, ARE NOT TO BE BURIED ON-SITE, DUMPED ON THE GROUND, POURED DOWN A STORM DRAIN, OR DISPOSED OF WITH CONSTRUCTION DEBRIS. SO WHILE TYPICAL EROSION AND SEDIMENT-CONTROL PRACTICES ARE IMPORTANT FOR CONTROLLING OTHER POLLUTANTS, ADDITIONAL PREVENTATIVE MEASURES ARE NEEDED.

DISPOSAL AND HANDLING OF HAZARDOUS AND OTHER CONSTRUCTION WASTE

 FOLLOW LABEL DIRECTIONS FOR DISPOSAL REMOVE LIDS FROM EMPTY BOTTLES AND CANS WHEN DISPOSING IN TRASH RECYCLE WASTES WHENEVER POSSIBLE

 DON'T POUR INTO WATERWAYS, STORM DRAINS OR ONTO THE GROUND DON'T POUR DOWN THE SINK. FLOOR DRAIN OR SEPTIC TANKS DON'T BURY CHEMICALS OR CONTAINERS DON'T BURN CHEMICALS OR CONTAINERS

DON'T MIX CHEMICALS TOGETHER

WASTE DISPOSAL CONTAINERS SHALL BE PROVIDED FOR THE PROPER COLLECTION OF ALL WASTE MATERIAL INCLUDING CONSTRUCTION DEBRIS, SANITARY GARBAGE, PETROLEUM PRODUCTS AND ANY HAZARDOUS MATERIALS TO BE USED ON-SITE. CONTAINERS SHALL BE COVERED AND NOT LEAKING. ALL WASTE MATERIAL SHALL BE DISPOSED OF AT FACILITIES APPROVED FOR THAT MATERIAL. CONSTRUCTION DEMOLITION AND DEBRIS (CD&D) WASTE MUST BE DISPOSED OF IN ACCORDANCE WITH ORC 3714 AT AN APPROVED OHIO EPA CD&D LANDFILL.

NO CONSTRUCTION RELATED WASTE MATERIALS ARE TO BE BURIED ON-SITE. BY EXCEPTION, CLEAN FILL (EQUIVALENT TO ODOT 304) MAY BE UTILIZED IN A WAY THAT DOES NOT ENCROACH UPON NATURAL WETLANDS, STREAMS OR THEIR FLOODPLAINS. FILLING OF STREAM SIDE AREAS IS FILL MAY NOT RESULT IN THE CONTAMINATION OF WATERS OF THE STATE, UNLESS PROHIBITED BY LOCAL ORDINANCE OR ZONING.

HANDLING CONSTRUCTION CHEMICALS. MIXING, PUMPING, TRANSFERRING OR OTHER HANDLING OF CONSTRUCTION CHEMICALS SUCH AS FERTILIZER, LIME, ASPHALT, CONCRETE DRYING COMPOUNDS, AND ALL OTHER POTENTIALLY HAZARDOUS MATERIALS SHALL BE PERFORMED IN AN AREA AWAY FROM ANY WATERCOURSE, DITCH

EQUIPMENT FUELING AND MAINTENANCE, OIL CHANGING, ETC., SHALL BE PERFORMED AWAY FROM WATERCOURSES, DITCHES OR STORM DRAINS, IN AN AREA DESIGNATED FOR THAT PURPOSE. THE DESIGNATED AREA SHALL BE EQUIPPED FOR RECYCLING OIL AND CATCHING SPILLS. SECONDARY CONTAINMENT SHALL BE PROVIDED FOR ALL FUEL OIL STORAGE TANKS. THESE AREAS MUST BE INSPECTED EVERY SEVEN DAYS AND WITHIN 24 HRS. OF A 0.5 INCH OR GREATER RAIN EVENT TO ENSURE THERE ARE NO EXPOSED MATERIALS WHICH WOULD CONTAMINATE STORM WATER. SITE OPERATORS MUST BE AWARE THAT SPILL PREVENTION CONTROL AND COUNTERMEASURES (SPCC) REQUIREMENTS MAY APPLY. AN SPCC PLAN IS REQUIRED FOR SITES WITH ONE SINGLE ABOVEGROUND TANK OF 660 GALLONS OR MORE, ACCUMULATIVE ABOVEGROUND STORAGE OF 1330 GALLONS OR MORE, OR 42,000 GALLONS OF UNDERGROUND STORAGE. SOILS THAT HAVE BECOME CONTAMINATED MUST BE DISPOSED OF ACCORDANCE WITH ITEM 8 "CONTAMINATED SOILS.

CONCRETE WASH WATER/WASH OUTS. CONCRETE WASH WATER SHALL NOT BE ALLOWED TO FLOW TO STREAMS, DITCHES, STORM DRAINS, OR ANY OTHER WATER CONVEYANCE. A SUMP OR PIT WITH NO POTENTIAL FOR DISCHARGE SHALL BE CONSTRUCTED IF NEEDED TO CONTAIN CONCRETE WASH WATER. FIELD TILE OR OTHER SUBSURFACE DRAINAGE STRUCTURES WITHIN 10 FT. OF THE SUMP SHALL BE CUT AND PLUGGED. FOR SMALL PROJECTS, TRUCK CHUTES MAY BE RINSED ON THE LOT AWAY FROM ANY WATER CONVEYANCES.

CONTAMINATED SOILS. IF SUBSTANCES SUCH AS OIL, DIESEL FUEL, HYDRAULIC FLUID, ANTIFREEZE, ETC. ARE SPILLED, LEAKED, OR RELEASED ONTO THE SOIL, THE SOIL SHOULD BE DUG UP AND DISPOSED OF AT LICENSED SANITARY LANDFILL OR OTHER APPROVED PETROLEUM CONTAMINATED SOIL REMEDIATION FACILITY (NOT A CONSTRUCTION/DEMOLITION DEBRIS LANDFILL). PLEASE BE AWARE THAT STORM WATER RUNOFF ASSOCIATED WITH CONTAMINATED SOILS ARE NOT AUTHORIZED UNDER OHIO EPA'S GENERAL STORM WATER PERMIT ASSOCIATED WITH CONSTRUCTION ACTIVITIES. IN THE EVENT THERE ARE LARGE EXTENSIVE AREAS OF CONTAMINATED SOILS ADDITIONAL MEASURES ABOVE AND BEYOND THE CONDITIONS OF OHIO EPA'S GENERAL CONSTRUCTION STORM WATER PERMIT WILL BE REQUIRED. DEPENDING ON THE EXTENT OF CONTAMINATION, ADDITIONAL TREATMENT AND/OR COLLECTION AND DISPOSAL MAY BE REQUIRED. ALL STORM WATER DISCHARGES ASSOCIATED WITH THE CONTAMINATED SOILS MUST BE AUTHORIZED UNDER AN ALTERNATE NPDES (NATIONAL POLLUTANT DISCHARGE ELIMINATION

SPILL REPORTING REQUIREMENTS: SPILLS ON PAVEMENT SHALL BE ABSORBED WITH SAWDUST, KITTY LITTER OR OTHER ABSORBENT MATERIAL AND DISPOSED OF WITH THE TRASH AT A LICENSED SANITARY LANDFILL. HAZARDOUS OR INDUSTRIAL WASTES SUCH AS MOST SOLVENTS, GASOLINE, OIL-BASED PAINTS, AND CEMENT CURING COMPOUNDS REQUIRE SPECIAL HANDLING. SPILLS SHALL BE REPORTED TO OHIO EPA (1-800-282-9378). SPILLS OF 25 GALLONS 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 MIN. OF THE DISCOVERY OF THE RELEASE. ALL SPILLS, WHICH RESULT IN CONTACT WITH WATERS OF THE STATE, MUST BE REPORTED TO OHIO EPA'S HOTLINE.

OPEN BURNING. NO MATERIALS MAY BE BURNED UNLESS APPROVED BY THE OWNER, ARCHITECT, AND ENGINEER. MATERIALS WHICH CONTAIN RUBBER, GREASE, ASPHALT, OR PETROLEUM PRODUCTS SUCH AS TIRES, CARS, AUTO PARTS, PLASTICS OR PLASTIC COATED WIRE. (SEE OAC 3745-19) OPEN BURNING IS NOT ALLOWED IN RESTRICTED AREAS. RESTRICTED AREAS ARE DEFINED AS: 1) WITHIN CORPORATION LIMITS; 2) WITHIN 1000 FEET OUTSIDE A MUNICIPAL CORPORATION HAVING A POPULATION OF 1000 TO 10,000; AND 3) A ONE MILE ZONE OUTSIDE OF A CORPORATION OF 10,000 OR MORE. OUTSIDE A RESTRICTED AREA, NO OPEN BURNING CAN TAKE PLACE WITHIN A 1000 FEET OF AN INHABITED BUILDING LOCATED OFF THE PROPERTY WHERE THE FIRE IS SET. OPEN BURNING IS PERMISSIBLE IN A RESTRICTED AREA FOR THE FOLLOWING ACTIVITIES: HEATING TAR, WELDING AND ACETYLENE TORCHES, SMUDGE POTS AND SIMILAR OCCUPATIONAL NEEDS, AND HEATING FOR WARMTH OR OUTDOOR BARBEQUES. OUTSIDE OF RESTRICTED AREAS, OPEN BURNING IS PERMISSIBLE FOR LANDSCAPE WASTES (PLANT MATERIAL), LAND-CLEARING WASTES (PLANT MATERIAL, WITH PRIOR WRITTEN PERMISSION FROM OHIO EPA), AND AGRICULTURAL WASTES (MATERIAL GENERATED BY CROP, HORTICULTURAL, OR LIVESTOCK PRODUCTION PRACTICES. THIS INCLUDES FENCE POSTS AND SCRAP LUMBER, BUT NOT BUILDINGS).

- ACCEPTABLE. DAILY CLEAN UP AND/OR POWER BROOMING IS REQUIRED.
- COMMERCIAL SITES TO DETERMINE IF ASBESTOS CORRECTIVE ACTIONS ARE REQUIRED.
- 13 THE SOURCE OF ALL LEACHATE OUTBREAKS.
- 14 SOURCES.
- 15

SEDIMENT AND EROSION CONTROL NARRATIVE:

AUTHORIZIN	G SWPPP AGENT:	GREENLAND ENGINEERING 4230 RIVER STREET WILLOUGHBY, OH 44094 PHONE: 440-269-3221
SITE LOCATI	ON:	5920 FULLERTON AVENUE CLEVELAND, OH 44105
SITE OWNER	<u>:</u>	CLEVELAND MUNICIPAL SCHOO 410 E 152ND STREET CLEVELAND, OH 44110 PHONE: 216-838-0850
1.	PROJECT DESCRIPTION: THE PROPOSED PROJECT EDUCATION BUILDING, CO ASSOCIATED DRIVES, PA UNDERGROUND UTILITIE ESTIMATED START DATE	CT CONSISTS OF THE DEMOLITION C DNE GAS/ELECTRIC BUILDING AND A ARKING, AND ES. E: SEPTEMBER 2022
2.	EXISTING CONDITIONS: THE EXISTING SITE CON	N DATE: DECEMBER 2022 SISTS OF AN EDUCATION BUILDING
3.	ADJACENT AREAS: THE SITE IS BORDERED WEST AND EAST BY RES GERTRUDE AVENUE	TO THE NORTH BY FULLERTON AVE SIDENTIAL PROPERTY, AND TO THE S
4.	RECEIVING STREAM: THE SITE DISCHARGES T CONVEYANCE SYSTEM,	TO THE CITY OF CLEVELAND STORM WHICH ULTIMATELY DISCHARGES T
5.	CRITICAL AREAS: ADJACENT COMMERCIA ROADWAYS ARE TO REA THE IMPROVEMENT PRO	L AND RESIDENTIAL LOTS AND ALL F MAIN CLEAR OF SEDIMENT AND DEB
6.	EROSION AND SEDIMENT THE PROPOSED CONSTI SEDIMENT RUNOFF PRO LEVEL SPREADER, INLE CONSTRUCTION ENTRAI SHALL BE RESPONSIBLE DEVICES UNTIL SITE VEC	T CONTROL MEASURES: RUCTION PROJECT WILL REQUIRE E TECTION BY USE OF ROCK CHECK I T PROTECTION, SILT FENCING, A NCE, AND TEMPORARY SEEDING. CO E FOR MAINTAINING THE EROSION C GETATION IS ESTABLISHED.
7.	MAINTENANCE OF THE E SHALL BE IN ACCORDAN	ROSION AND SEDIMENT CONTROL I
8.	SITE SOILS: THE PROPOSED SITE IS COMPLEX, NEARLY LEVE	COMPOSED OF UeA-URBAN LAND-E EL (HYDROLOGIC SOIL GROUP A/D).
9.	SITE ACREAGE SUMMAR IMPERVIOUS AREA PRIO IMPERVIOUS AREA AT CO PERCENT INCREASE/DEC AREA DISTURBED BY TH TOTAL SITE ACREAGE: 2 PERCENTAGE OF SITE D	RY: R TO THE START OF CONSTRUCTIO OMPLETION OF CONSTRUCTION: 0.0 CREASE OF IMPERVIOUS AREA: 100 IIS PROJECT: 2.66 AC :.66 AC ISTURBED: 100%
10.	RUNOFF COEFFICIENTS: PRE-CONSTRUCTION CN POST-CONSTRUCTION C	I = 75.60 N = 80.07
11.	TEMPORARY BMP:	

DIVERSION SWALES WITH ROCK CHECK DAMS AND LEVEL SPREADERS WILL SERVE AS THE TEMPORARY BMP FOR THE PROJECT TO REDUCE STORM WATER VELOCITY AND FILTER SEDIMENT BEFORE EXITING THE SITE.

11 DUST CONTROL/SUPPRESSANTS. DUST CONTROL IS REQUIRED TO PREVENT NUISANCE CONDITIONS. DUST CONTROLS MUST BE USED IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS AND NOT BE APPLIED IN A MANNER. WHICH WOULD RESULT IN A DISCHARGE TO WATERS OF THE STATE. ISOLATION DISTANCES FROM BRIDGES. CATCH BASINS, AND OTHER DRAINAGEWAYS MUST BE OBSERVED, APPLICATION (EXCLUDING WATER) MAY NOT OCCUR WHEN PRECIPITATION IS IMMINENT AS NOTED IN THE SHORT TERM FORECAST. USED OIL MAY NOT BE APPLIED FOR DUST CONTROL. TRACKING DEBRIS ONTO PUBLIC RIGHT OF WAY IS NOT

OTHER AIR PERMITTING REQUIREMENTS: ALL CONTRACTORS AND SUB CONTRACTORS MUST BE MADE AWARE THAT CERTAIN ACTIVITIES ASSOCIATED WITH CONSTRUCTION WILL REQUIRE AIR PERMITS. ACTIVITIES INCLUDING BUT NOT LIMITED TO MOBILE CONCRETE BATCH PLANTS, MOBILE ASPHALT PLANTS, CONCRETE CRUSHERS, LARGE GENERATORS, ETC., WILL REQUIRE SPECIFIC OHIO EPA AIR PERMITS FOR INSTALLATION AND OPERATION. THESE ACTIVITIES MUST SEEK AUTHORIZATION FROM THE CORRESPONDING DISTRICT OF OHIO EPA. NOTIFICATION FOR RESTORATION AND DEMOLITION MUST BE SUBMITTED TO OHIO EPA FOR ALL

PROCESS WASTE WATER/LEACHATE MANAGEMENT. ALL CONTRACTORS SHALL BE MADE AWARE THAT OHIO EPA'S CONSTRUCTION GENERAL PERMIT ONLY ALLOWS THE DISCHARGE OF STORM WATER. OTHER WASTE STREAMS/DISCHARGES INCLUDING BUT NOT LIMITED TO VEHICLE AND/OR EQUIPMENT WASHING, LEACHATE ASSOCIATED WITH ON-SITE WASTE DISPOSAL, CONCRETE WASH OUTS, ETC. ARE A PROCESS WASTEWATER. THEY ARE NOT AUTHORIZED FOR DISCHARGE UNDER THE GENERAL STORM WATER PERMIT ASSOCIATED WITH CONSTRUCTION ACTIVITIES, ALL PROCESS WASTEWATERS MUST BE COLLECTED AND PROPERLY DISPOSED AT AN APPROVED DISPOSAL FACILITY. IN THE EVENT THERE ARE LEACHATE OUTBREAKS ASSOCIATED WITH ONSITE DISPOSAL, MEASURES MUST BE TAKEN TO ISOLATE THIS DISCHARGE FOR COLLECTION AND PROPER DISPOSAL. INVESTIGATIVE MEASURES AND CORRECTIVE ACTIONS MUST BE IMPLEMENTED TO IDENTIFY AND ELIMINATE

TRENCH AND GROUND WATER CONTROL - NO SEDIMENT LADEN OR TURBID DISCHARGES FROM ARE PERMITTED TO DISCHARGE TO WATER RESOURCES OR WETLANDS. TRENCH OR GROUND WATER CONTAINING SEDIMENT MUST PASS THROUGH A SEDIMENT SETTLING POND OR OTHER EQUALLY EFFECTIVE SEDIMENT CONTROL DEVICE PRIOR TO DISCHARGE. ALTERNATIVELY, SEDIMENT MAY BE REMOVED BY SETTLING IN PLACE OR BY DEWATERING INTO FILTER BAG, SUMP PIT OR EQUALLY EFFECTIVE PRACTICE. GROUND WATER DEWATERING THAT DOES NOT CONTAIN SEDIMENT OR OTHER POLLUTANTS IS NOT REQUIRED TO BE TREATED PRIOR TO DISCHARGE. ENSURE THAT THE NON-SEDIMENT LADEN GROUND WATER DOES NOT BECOME POLLUTANT LADEN BY FLOWING OVER DISTURBED SOIL OR POLLUTANT

WHEN APPLICABLE, PERMIT TO INSTALL (PTI) REQUIREMENTS: ALL CONTRACTORS AND SUB CONTRACTORS MUST BE MADE AWARE THAT A PTI MUST BE SUBMITTED AND APPROVED BY OHIO EPA PRIOR TO THE CONSTRUCTION OF ALL CENTRALIZED SANITARY SYSTEMS, INCLUDING SEWER EXTENSIONS, AND SEWERAGE SYSTEMS (EXCEPT THOSE SERVING ONE, TWO, AND THREE FAMILY DWELLINGS) AND POTABLE WATER LINES. THE ISSUANCE OF AN OHIO EPA CONSTRUCTION GENERAL STORM WATER PERMIT DOES NOT AUTHORIZE THE INSTALLATION OF ANY SEWERAGE SYSTEM WHERE OHIO EPA HAS NOT APPROVED A PTI.

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8.2.

SPREADERS PER SWP3 PLAN.

- SINEERING FFT H 44094 -3221 **AVENUE** 44105 NICIPAL SCHOOL DISTRICT REET 144110 0850
- INSTALL INLET PROTECTION ON EXISTING CATCH BASINS. DO NOT PERFORM ANY ADDITIONAL SOIL DISTURBING ACTIVITIES UNTIL ALL OF THE ABOVE ACTIVITIES HAVE BEEN COMPLETED. GRADE SITE TO ACHIEVE PROPOSED GRADES. COMPLETE SITE CONSTRUCTION. UPON ESTABLISHMENT OF SITE VEGETATION: 8.1. ENSURE DIVERSION SWALES ARE GRADED TO ACHIEVE PROPOSED GRADES AND SEED ALL DISTURBED AREAS.

(NOT) IS FILED.

INSTALL CONSTRUCTION ENTRANCE AND SILT FENCE/SOCK. REMOVAL OF ANY HAZARDOUS MATERIALS FOUND ON SITE

INSTALL DIVERSION SWALES, ROCK CHECK DAMS AND LEVEL

NOTE: EROSION CONTROL SHALL BE APPLIED WITHIN SEVEN DAYS OF REACHING FINAL GRADE. REMOVE SILT FENCE/SOCK AND ALL TEMPORARY BMP ONCE SITE IS STABILIZED AND NOTICE OF TERMINATION

E DEMOLITION OF ONE UILDING AND ALL

2022

TION BUILDING, A ID SIDEWALKS.

FULLERTON AVENUE, TO THE , AND TO THE SOUTH BY

VELAND STORM WATER DISCHARGES TO LAKE ERIE

LOTS AND ALL PUBLIC MENT AND DEBRIS FROM

WILL REQUIRE EROSION AND ROCK CHECK DAMS, A FENCING, A RY SEEDING. CONTRACTOR HE EROSION CONTROL

ISHED. ENT CONTROL MEASURES

URBAN LAND-ELNORA

CONSTRUCTION: 1.65 AC STRUCTION: 0.00 AC OUS AREA: 100%

D 01 07/08/22 BID SET NO: DATE: DESCRIPTION ISSUES AND REVISIONS ELEMENT/ MOLITION Ċ

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JOB NUMBER 22029

SEEDING DATES	SPECIES	LB/1000 FT ²	LB/ACRES	
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 (4 BUSHEL)	
	TALL FESCUE	1	40	
	ANNUAL RYEGRASS	1	40	
AUGUST 16 TO NOVEMBER 1	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 RYEGRASS	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 FEBRUARY 29	ER 1 TO FEBRUARY 29 USE MULCH ONLY, SODDING PRACTICES OR DORMANT SEEDING.			
NOTE: OTHER APPROVED SEED SPECIES MAY BE APPROVED.				

ADDITIONAL TEMPORARY STABILIZATION NOTES:

- 1. TEMPORARY SEEDING IS REQUIRED FOR ANY AREAS THAT WILL REMAIN IDLE OVER THE WINTER PRIOR TO THE ONSET OF WINTER WEATHER.
- 2. TEMPORARY SEEDING IS REQUIRED WITHIN 2 DAYS OF THE MOST RECENT DISTURBANCE FOR AN AREA WITHIN 50 FEET OF A SURFACE WATER OF THE STATE AND NOT AT FINAL GRADE THAT WILL REMAIN IDLE FOR 14 DAYS OR MORE.
- 3. TEMPORARY SEEDING IS REQUIRED ON ANY DISTURBED AREA, INCLUDING SOIL STOCKPILES THAT WILL LIE DORMANT FOR MORE THAN 14 DAYS, BUT LESS THAN ONE YEAR AND NOT WITHIN 50 FEET OF A SURFACE WATER OF THE STATE WITHIN 7 DAYS OF THE MOST RECENT DISTURBANCE.

TEMPORARY SEEDING SPECIFICATIONS

	SEEDIN	g rate
JELD WIX	LBS/ACRE	LBS/1000 FT
	(GENERAL USE
CREEPING RED FESCUE	20-40	1/2-1
DOMESTIC RYEGRASS	10-20	1/4-1/2
KENTUCKY BLUEGRASS	20-40	1/2-1
TALL FESCUE	40-50	1-1 1/4
TURF-TYPE (DWARF) FESCUE	90	2 1/4
	STEEP BA	NKS OR CUT S
TALL FESCUE	40-50	1-1 1/4
CROWN VETCH	10-20	1/4-1/2
TALL FESCUE	20-30	1/2-3/4
FLAT PEA	20-25	1/2-3/4
TALL FESCUE	20-30	1/2-3/4
	ROAD DI	TCHES AND SW
TALL FESCUE	40-50	1-1 1/4
TURF-TYPE (DWARF) FESCUE	90	2 1/4
KENTUCKY BLUEGRASS	5	0.1
		LAWNS
KENTUCKY BLUEGRASS	100-120	2
PERENNIAL RYEGRASS		2
KENTUCKY BLUEGRASS	100-120	2
CREEPING RED RESCUE		1-1/2

ADDITIONAL PERMANENT SEEDING REQUIREMENTS:

- 1. PERMANENT SEEDING IS REQUIRED FOR ANY DISTURBED AREA THAT WILL LIE DORMANT FOR ONE YEAR OR MORE WITHIN 7 DAYS OF THE MOST RECENT DISTURBANCE.
- 2. PERMANENT SEEDING IS REQUIRED FOR ANY AREA WITHIN 50 FEET OF A SURFACE WATER BODY OF THE STATE AND AT FINAL GRADE WITHIN 2 DAYS OF REACHING FINAL GRADE.
- 3. PERMANENT SEEDING IS REQUIRED FOR ANY AREA AT FINAL GRADE WITHIN 7 DAYS OF REACHING FINAL GRADE.

PERMANENT SEEDING SPECIFICATIONS

	3-3WFFF AMENDMENT LOG	SWPPP CONTACT:	
AMENDMENT NO.	DESCRIPTION OF THE AMENDMENT	DATE OF AMENDMEN	T AMENDMENT PREPARED BY:

APPENDIX I - GRADING AND STABILIZATION ACTIVITIES LOG

DATE GRADING ACTIVITY INITIATED	DESCRIPTION OF GRADING ACTIVITY	DATE GRADING ACTIVITY CEASED (INDICATE TEMPORARY OR PERMANENT)	DATE WHEN STABILIZATION MEASURES ARE INITIATED	DESCRIPTION OF STABILIZATION MEASURE AND LOCATION

SWPPP CONTACT:

	(
Concentrated Flow	
	Level spreade on existing lev
	PL
Concentrated Flow	HAPPY NO.
	SE

1. Construct level spreader on a level grade to ensure uniform spreading of storm runoff. 2. Level spreaders must be constructed on undisturbed soil.

NOT on fill.

3. The level spreader must outlet to erosion-resistant areas with established existing vegetation.

4. Vegetated lip spreaders shall be protected using an erosion control blanket installed according to manufactures'

DO NOT SEED LATER THAN AUGUST

ALES

FOR SHADED AREAS

*NOTE: FOLLOWING SOIL TEST RECOMMENDATIONS IS PREFERRED TO FERTILIZER RATES SHOWN ABOVE

INSTALLATION AND MAINTENANCE GUIDELINES

INSTALLATION: THE EMPTY DANDY BAG® SHOULD BE PLACED OVER THE GRATE AS THE GRATE STANDS ON END. IF USING OPTIONAL OIL ABSORBENTS; PLACE ABSORBENT PILLOW IN POUCH, ON THE BOTTOM (BELOW-GRADE SIDE) OF THE UNIT. ATTACH ABSORBENT PILLOW TO TETHER LOOP. TUCK THE ENCLOSURE FLAP INSIDE TO COMPLETELY ENCLOSE THE GRATE. HOLDING THE LIFTING DEVICES (DO NOT RELY ON LIFTING DEVICES TO SUPPORT THE ENTIRE WEIGHT OF THE GRATE), PLACE THE GRATE INTO ITS FRAME.

MAINTENANCE: REMOVE ALL ACCUMULATED SEDIMENT AND DEBRIS FROM SURFACE AND VICINITY OF UNIT AFTER FACH STORM EVENT. REMOVE SEDIMENT THAT HAS ACCUMULATED WITHIN THE CONTAINMENT AREA OF THE DANDY BAG® AS NEEDED. IF USING OPTIONAL OIL ABSORBENTS; REMOVE AND REPLACE ABSORBENT PILLOW WHEN NEAR SATURATION. ADS FLEX-STORM IS AN ACCEPTABLE INLET PROTECTION ALTERNATIVE.

** DANDY BAGS MAY ONLY BE USED FOR INLET PROTECTION WHEN THE DRAINAGE STRUCTURE IS COMPLETELY SURROUNDED BY PAVEMENT.

> <u>)andy bag**</u>® NOT TO SCALE

OVER ALL DISTURBED AREAS.

22029

FABRIC PROPERTIES	VALUES	TES
MINIMUM TENSILE STRENGTH	120 LBS. (535 N)	ASTM
MAXIMUM ELONGATION AT 60 LBS	50%	ASTM
MINIMUM PUNCTURE STRENGTH	50 LBS. (220 N)	ASTM
MINIMUM TEAR STRENGTH	40 LBS (180 N)	ASTM
APPARENT OPENING SIZE	≤ 0.84 MM	ASTM
MINIMUM PERMITTIVITY	1X10-2 SEC1	ASTM
IN EVDOSIDE STRENCTH RETENTION	709	MT2A

Specifications for Vegetated Level Spreader

recommendations. The blanket shall start a minimum of over the spreader lip, secured with heavy-duty staples and the downstream and upstream ends buried at least 6 inches in a vertical trench. 5. Fertilizing, seeding, and mulching shall conform to the rec-

4 feet above the lip and extend at least 1 foot downstream

ommendations in the applicable vegetative specification.

ALL CONSTRUCTION AND MATERIALS INCLUDED ON THIS PROJECT SHALL BE IN ACCORDANCE WITH THE LATEST STATE OF OHIO DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND MATERIALS SPECIFICATIONS.

ANY DEFECTS IN THE CONSTRUCTION INCLUDING MATERIALS OR WORKMANSHIP SHALL BE REPLACED OR CORRECTED BY REMOVAL AND REPLACEMENT BY THE CONTRACTOR OR OTHER APPROVED METHODS PRIOR TO ACCEPTANCE BY THE ENGINEER AT NO ADDITIONAL COST.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGES TO APPLICABLE ROAD SURFACES, SIGNS, GUARDRAILS, MAIL/PAPER BOXES, CULVERTS, EASEMENTS, MONUMENT, EXISTING IMPROVEMENTS OR SURFACE TEMPERATURES FOR ASPHALT PAVEMENT PLACEMENT SHALL BE 40 DEGREES FAHRENHEIT FOR THICKNESS GREATER THAN 1.5 INCHES AND 50 DEGREES FAHRENHEIT FOR SURFACE COURSES LESS RIGHT OF WAYS DISTURBED BY CONSTRUCTION OF ANY PART OF THIS IMPROVEMENT. ALL DAMAGES SHALL BE RESTORED TO THE ORIGINAL CONDITION AT NO COST TO THE OWNER. THE ENGINEER IN THAN 1.5 INCHES. THE AIR TEMPERATURE SHOULD NOT BE LESS THAN 40 DEGREES FAHRENHEIT FOR ASPHALT PLACEMENT PER ODOT 401.06. WRITING SHALL ACCEPT APPROVAL OF RESTORATION.

THE CONTRACTOR SHALL NOT COMMENCE WITH ANY FORM OF CONSTRUCTION WITHOUT NOTIFYING THE ARCHITECT/ENGINEER AT LEAST TWENTY-FOUR (24) HOURS PRIOR TO STARTING CONSTRUCTION.

THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS AND NOTIFY AUTHORITY HAVING JURISDICTION. POLICE, FIRE, AND EMERGENCY SERVICES OF DEMOLITION AND RESTORATION ACTIVITIES.

THE CONTRACTOR SHALL PROVIDE A TWENTY-FOUR (24) HOUR, SEVEN DAYS A WEEK EMERGENCY CONTACT LIST. THE CONTACT LIST SHALL INCLUDE CONTACT NAMES AND PHONE NUMBERS OF INDIVIDUALS. ALL FILLED AREAS, EXCLUDING TRENCHES WITHIN RIGHT-OF-WAY AREAS, SHALL BE COMPACTED IN ACCORDANCE WITH ODOT ITEM 203. IN ADDITION, FOR ANY FILL IN EXCESS OF TWO (2) FEET, AN APPROVED WHO CAN BE REACHED AT ANY TIME. NO CONSTRUCTION SHALL OCCUR BEFORE CONTACT LIST IS PROVIDED TO THE ARCHITECT/ENGINEER. TESTING COMPANY IN ACCORDANCE WITH ODOT ITEM 203 SHALL PERFORM NUCLEAR COMPACTION TESTS.

ALL LAWN AREAS REMOVED OR DISTURBED SHALL BE REPLACED BY SEEDING AND MULCHING IN ACCORDANCE WITH ITEM 659 OF ODOT SPECIFICATIONS AND SHALL BE RESEEDED AND MULCHED WHEN ASPHALT PAVEMENT: REQUESTED IF SATISFACTORY RE-ESTABLISHMENT OF LAWN DOES NOT OCCUR. PAYMENT SHALL BE MADE UPON EVIDENCE OF SATISFACTORY RE-ESTABLISHMENT OF LAWN AREA. ALL MATERIAL MUST BE OBTAINED FROM A SOURCE APPROVED BY THE OHIO DEPARTMENT OF TRANSPORTATION. ASPHALT PAVING SHALL BE AS SHOWN ON THE TYPICAL SECTION.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGES TO THE EXISTING WATER, STORM, SANITARY, OR OTHER EXISTING SITE IMPROVEMENTS RESULTING FROM NON-CONFORMANCE WITH THE APPLICABLE STANDARDS OR THROUGH GENERAL NEGLIGENCE.

THE CONTRACTOR SHALL MAINTAIN POSITIVE DRAINAGE AT ALL TIMES AND SHALL BACKFILL AND GRADE EXCAVATED AREAS TO ELIMINATE PONDING ON THE SITE.

DUST CONTROL

THE CONTRACTOR SHALL SUPPLY ALL LABOR, MATERIALS AND EQUIPMENT NECESSARY INCLUDING A DUST-FREE STREET SWEEPING DEVICE OR AS DIRECTED BY THE ENGINEER OR AUTHORITY HAVING JURISDICTION TO MAINTAIN ALL ROADWAYS BEING USED FOR ACCESS TO THE CONSTRUCTION SITE.

EROSION CONTROL

THE CONTRACTOR SHALL BE RESPONSIBLE FOR TEMPORARY EROSION CONTROL METHODS IN ACCORDANCE WITH ODOT ITEM 207 AND AS REQUIRED BY THE ENGINEER. EROSION CONTROL MEASURES MUST BE IN PLACE PRIOR TO ANY CONSTRUCTION ACTIVITIES. THE CONTRACTOR SHALL CLEAN ALL EXISTING STREETS OF MUD AND DIRT DURING THE CONSTRUCTION PHASE AS NEEDED OR DIRECTED BY THE ENGINEER OR AUTHORITY HAVING JURISDICTION

GENERAL SEWER NOTES (AS APPLICABLE):

AT ALL STORM SEWER MAIN AND SANITARY MAIN INTERSECTIONS, HAVING LESS THAN EIGHTEEN (18) INCH VERTICAL SEPARATION, ENCASE THE LOWER AND MONOLITHICALLY CRADLE THE UPPER PIPE IN 2500 PSI CONCRETE FOR THE WIDTH OF THE TRENCH.

LINE AND GRADE CONTROL NOTES AS APPLICABLE:

THE LINE AND GRADE OF SEWER MAINS SHALL BE CONTROLLED DURING SEWER CONSTRUCTION BY USE OF AN APPROVED LASER DEVICE. THE LINE AND GRADE OF THE LASER SHALL BE "CHECKED" FROM LINE AND GRADE STAKES AT A MAXIMUM OF FIFTY FOOT (50) INTERVALS.

EARTHWORK:

ALL BACKFILL OF EXCAVATIONS (FOR TRENCHES AND STRUCTURES) UNDER BERM, PAVEMENT AREAS, EXISTING WALK, DRIVE AREAS, OR WITHIN A 45° INFLUENCE LINE FROM THE EDGE OF PAVEMENT, SHALL BE LIMESTONE AND SHALL CONFORM TO ODOT ITEM 611.08, TYPE A, ITEM 304 SUBBASE MATERIAL. SLAG MATERIAL, SAND OR UNSUITABLE AGGREGATES SHALL NOT BE USED.

ALL BACKFILL OF EXCAVATIONS OUTSIDE OF PAVEMENT AREAS AND EXISTING WALK OR DRIVE AREAS SHALL CONFORM TO ODOT 611.08, TYPE C, COMPACTED EARTH.

WHEREVER UNSTABLE SOIL CONDITIONS ARE ENCOUNTERED THAT ARE NOT INDICATED ON THE PLANS, THE WORK SHALL BE DISCONTINUED UNTIL THE ENGINEER APPROVES THE METHOD AND MATERIAL TO BE INCORPORATED INTO THE WORK. ANY APPLICABLE CONDUITS SHALL BE INSTALLED ON A FIRM BED FOR ITS FULL LENGTH IN ACCORDANCE WITH ODOT ITEM 611.03 UNLESS OTHERWISE SPECIFIED.

ALL UNFORESEEN UNDERGROUND OR ABOVE GROUND UTILITIES OR CONDITIONS THAT ARE DISCOVERED IN THE PROJECT AREA DURING CONSTRUCTION SHALL BE REPORTED BY THE CONTRACTOR TO THE THE CONTRACTOR SHALL FURNISH, PLACE AND REMOVE PAVEMENT AS SHOWN ON THE PLANS OR WHERE DIRECTED BY THE ENGINEER AND AS SPECIFIED HEREIN. THE BITUMINOUS COLD MIX SHALL BE IN ENGINEER IMMEDIATELY FOR EVALUATION / POSSIBLE REDESIGN. THE FIELD DATA SHALL INCLUDE MATERIAL TYPE, SIZE, CONDITION, LOCATION, DEPTH / ELEVATION, ETC ACCORDANCE WITH ODOT ITEM 405. ALL TEMPORARY BITUMINOUS PAVEMENTS SHALL BE A MINIMUM OF TWO (2) INCHES THICK AND SHALL CONFORM TO THE GRADE OF THE EXISTING PAVEMENT, DRIVE OR WALK. ALL STREET, DRIVES AND WALKS SHALL BE MAINTAINED IN A SAFE AND USABLE CONDITION FOR PUBLIC USE DURING THE CONSTRUCTION PERIOD.

UNDERGROUND UTILITY CONSTRUCTION REQUIREMENTS, AS APPLICABLE

UNDERGROUND UTILITIES:

GENERAL REQUIREMENTS: UTILITIES INCLUDING GAS PIPES, TELEPHONE CABLES AND ELECTRICAL POWER AND STREET LIGHTING CIRCUITS ARE TO BE UNDERGROUND. ALL TRENCH BACKFILL IN PAVEMENT AREAS SHALL BE ODOT ITEM THE FOLLOWING REQUIREMENTS APPLY TO ALL PAVEMENT DRIVE APRONS, SIDEWALKS AND CURB RAMPS. ALL PAVEMENT DRIVES, SIDEWALKS AND/OR CURB RAMPS SHALL CONFORM TO ODOT #304 AGGREGATE BASE COMPACTED BY VIBRATORY OR MECHANICAL TAMPING IN EIGHT (8) INCH LAYERS. ALL WIRING AND CABLES NOT CONTAINED WITHIN CONDUIT AND DIRECT BURIED, SHALL HAVE THEIR SPECIFICATIONS IF NOT SPECIFIED HEREIN. ALL PAVEMENT DRIVES, SIDEWALKS AND CURB RAMP REPLACEMENTS SHALL CONFORM TO THE GRADE OF THE EXISTING PAVEMENT DRIVE, SIDEWALK AND/OR LOCATIONS MARKED WITH COLOR CODED TECTO-TAPE OR FACSIMILE TWELVE (12) INCHES ABOVE SUCH DIRECT BURIED WIRING OR CABLE. REFER TO TRENCH EXCAVATION, BOTTOM PREPARATION AND CURB RAMP. BACKFILLING SECTION HEREIN.

MATERIAL: ALL CONSTRUCTION OF UTILITY PIPE, CONDUIT, CABLE, WIRES, VAULTS AND PERTINENT EQUIPMENT SHALL COMPLY WITH THE CURRENT REGULATIONS OF THE PUBLIC UTILITIES COMMISSION OF OHIO AND ALL CONCRETE SHALL BE CLASS "C" PER ODOT 499 AND PROPERLY CONSOLIDATED (NO SLAG). CURING COMPOUND SHALL BE LIQUID WHITE CURING COMPOUND MEETING THE REQUIREMENTS OF SECTION WITH THE REQUIREMENTS OF THE UTILITIES INVOLVED. ALL LOCATION AND DETAIL DRAWINGS OF THE UTILITIES PREPARED BY THE DEVELOPER AND/OR THE UTILITIES COMPANIES SHALL BE SUBMITTED TO 705.07 OF THE STANDARD SPECIFICATION AND APPLIED AT THE RATE OF 1 GALLON PER 200 SQUARE FEET. THE ENGINEER FOR APPROVAL.

THE LOCATION OF THE UNDERGROUND UTILITIES SHOWN ON THE PLANS HAS BEEN OBTAINED BY FIELD SURVEY AND AVAILABLE RECORD DATA PROVIDED BY A PROFESSIONAL SURVEYOR. THE DESIGN ENGINEER DOES NOT GUARANTEE THEIR ACCURACY OR COMPLETENESS AND THE CONTRACTOR IS THEREFORE URGED TO PROCEED WITH CAUTION. EXISTING APPURTENANCES SUCH AS UTILITY POLES, VALVE BOXES, ETC. ARE TO BE SAFEGUARDED BY THE CONTRACTOR DURING CONSTRUCTION.

THE CONTRACTOR SHALL CONTACT OHIO UTILITIES PROTECTION SERVICE (OUPS), 1-800-362-2764 AT LEAST FORTY-EIGHT (48) HOURS BEFORE ANY UNDERGROUND WORK IS COMMENCED IN EXISTING STREETS. IF UNDERGROUND UTILITIES ARE BELIEVED TO EXIST IN AREAS OUTSIDE THE RIGHT OF WAY, THE CONTRACTOR IS TO HIRE A QUALIFIED UNDERGROUND UTILITY LOCATING FIRM PRIOR TO START OF DEMOLITION AND/OR EARTHWORK OPERATIONS.

TRENCH EXCAVATION, BOTTOM PREPARATION AND BACKFILLING, AS APPLICABLE

GENERAL REQUIREMENTS:

ALL REQUIREMENTS FOR TRENCH EXCAVATION, BOTTOM PREPARATION AND BACKFILLING SHALL BE IN ACCORDANCE WITH ODOT ITEM 611.08 OR THE SPECIFICATIONS HEREIN. NO BACKFILL MATERIAL SHALL BE FROZEN OR UNSUITABLE FOR INTENDED USE.

TESTING AND INSPECTION:

ALL BACKFILL OF EXCAVATIONS (FOR TRENCHES AND STRUCTURES) UNDER BERM, PAVEMENT AREAS, EXISTING WALK, DRIVE AREAS, OR WITHIN A 45° ZONE OF INFLUENCE LINE FROM THE EDGE OF PAVEMENT, SHALL BE LIMESTONE AND SHALL CONFORM TO ODOT ITEM 611.08, TYPE A, ITEM 304 SUBBASE MATERIAL. SLAG MATERIAL, SAND OR SLACKER AGGREGATES SHALL NOT BE USED.

ALL BACKFILL OF EXCAVATIONS OUTSIDE OF PAVEMENT AREAS AND EXISTING WALK OR DRIVE AREAS SHALL CONFORM TO ODOT 611.08, TYPE C, COMPACTED EARTH.

IF MATERIAL OTHER THAN ODOT ITEM 304 MATERIAL IS PROPOSED FOR USE AS FILL WITHIN THE RIGHT-OF-WAY, A WRITTEN REQUEST MUST BE SUBMITTED TO THE ENGINEER. THE MATERIAL IS SUBJECT TO THE FOLLOWING REQUIREMENTS:

- A. PROCTORS MUST BE CONDUCTED ON ALL FILL MATERIALS AND PLANNED COMPACTION METHODS SUBMITTED TO THIS OFFICE PRIOR TO ANY FILLING OPERATIONS BEING PERMITTED.
- B. NEW PROCTORS MUST BE OBTAINED AS OFTEN AS THE SOIL MATERIAL CHANGES.
- C. NO PROCTOR'S FROM PREVIOUS YEAR'S CONSTRUCTION WILL BE ACCEPTED.
- D. SLAG IS NOT PERMITTED.

PAVEMENT CONSTRUCTION REQUIREMENTS, AS APPLICABLE

GENERAL REQUIREMENTS:

THE FOLLOWING REQUIREMENTS APPLY TO ALL PAVEMENT IMPROVEMENTS PLACED IN THE MUNICIPALITY.

COLD WEATHER:

NO ASPHALTIC PAVEMENT COURSE AND/OR CONCRETE PAVEMENT OR CURBING SHALL BE LAID ON FROZEN PAVEMENT, BASE OR SUBBASE

AMBIENT TEMPERATURE SHALL BE 35 DEGREE FAHRENHEIT AND RISING PER ODOT 451.06 FOR CONCRETE PLACEMENT. WINTER PROTECTION SHALL BE IN EFFECT WHEN TEMPERATURES FALL BELOW 40 DEGREES FAHRENHEIT FOR A PERIOD OF 3 SUCCESSIVE DAYS. PROTECTION CONSISTS OF VISQUEEN AND BLANKETS. ADDITIONAL CEMENT MAY BE ADDED TO ACCELERATE STRENGTH GAIN AND INCREASE THE TEMPERATURE OF THE CONCRETE.

EARTHWORK:

MATERIALS:

AGGREGATE BASE - AGGREGATE BASE SHALL BE THE REQUIRED THICKNESS ACCORDING TO THE ATTACHED DETAILS AND IN ACCORDANCE TO ODOT ITEM 304. AGGREGATE BASE SHALL BE COMPACTED TO 98% MAXIMUM DENSITY PER ODOT 304.05.

SURFACE ASPHALT CONCRETE - SURFACE ASPHALT CONCRETE ODOT 441, TYPE 1 AND TACK COAT SHALL BE AS PER THE ATTACHED DETAILS. THE SURFACE COURSE SHALL BE FINISHED 1/4 INCH ABOVE THE GUTTER AND ALL CASTINGS IN ROADWAY.

INTERMEDIATE ASPHALT CONCRETE - INTERMEDIATE ASPHALT CONCRETE ODOT 441, TYPE 1 SHALL BE AS PER THE ATTACHED DETAILS.

BITUMINOUS AGGREGATE BASE (HEAVY DUTY LOCATIONS)- BITUMINOUS AGGREGATE BASE ODOT 301 SHALL BE THE REQUIRED THICKNESS ACCORDING TO THE ATTACHED DETAILS AND IN ACCORDANCE TO ODOT ITEM 301.

JOINT SEALER - THE JOINT BETWEEN THE CONCRETE CURB AND PAVEMENT SURFACE SHALL BE SEALED WITH A FOUR (4) INCH WIDE APPLICATION OF RUBBERIZED JOINT SEALER OVERLAPPING THE CURB 1/2 INCH. THE SEAL SHALL BE LIGHTLY APPLIED IN A STRAIGHT LINE, SQUEEGEE AND LIGHTLY COVERED WITH SAND. THIS IS ALSO TO BE APPLIED TO THE PERIMETER OF UTILITY STRUCTURES IN PAVEMENT AREAS AS WELL AS WHERE NEW PAVEMENT MEETS EXISTING PAVEMENT. THESE AREAS SHALL BE SEALED WITH A FOUR (4) INCH WIDE APPLICATION OF RUBBERIZED JOINT SEALER OVERLAPPING THE UTILITY CASTING/EXISTING PAVEMENT SURFACE BY 1/2 INCH.

ASPHALT PAVEMENT REPAIR:

ASPHALT PAVEMENT REPAIR SHALL CONFORM TO ALL ODOT REQUIREMENTS AND SPECIFICATIONS HEREIN. IN ADDITION ASPHALT PAVEMENT REPAIRS SHALL BE IN ACCORDANCE WITH THE FOLLOWING:

1) SUBBASE REPAIR SHALL INCLUDE REMOVAL AND DISPOSAL OF DAMAGED AGGREGATE AND REPLACEMENT WITH COMPACTED ODOT ITEM 304 LIMESTONE. AREAS FOR REPAIR SHALL BE DETERMINED AS DIRECTED BY THE ENGINEER.

2) COLD WEATHER REPAIRS: DURING ADVERSE WEATHER CONDITIONS, LOW STRENGTH MORTAR (LSM) SHALL BE USED TO FILL THE TRENCH AND A 6" CONCRETE CAP TEMPORARILY INSTALLED USING A VISQUEEN BOND BREAKER.

ABUTTING ASPHALT CONTACT:

AT ANY POINT WHERE THE PROPOSED PAVEMENT MEETS EXISTING PAVEMENT, THE EXISTING PAVEMENT SHALL BE FULL DEPTH SAW CUT. THIS CUT SHALL BE PERPENDICULAR TO CENTERLINE REMOVING APPROXIMATELY ONE (1) FOOT OR ALL DAMAGED PAVEMENT AS DIRECTED BY THE ENGINEER. AN ADDITIONAL 18" OF ADJOINING ASPHALT SHALL BE MILLED 1 1/2" PRIOR TO APPLYING THE SURFACE COURSE. ASPHALT CONCRETE PER ODOT ITEM 404 SHALL BE USED TO FEATHER THE TRANSITION AND MAINTAIN POSITIVE DRAINAGE BETWEEN THE EXISTING AND PROPOSED PAVEMENT.

TEMPORARY BITUMINOUS PAVEMENT:

PAVEMENT DRIVE APRONS, SIDEWALK, CURBS AND CURB RAMP REQUIREMENTS, AS APPLICABLE

NOTIFICATION TO RESIDENTS:

THE SCHEDULING FOR THIS WORK SHALL BE DISCUSSED WITH EACH PROPERTY OWNER AFFECTED PRIOR TO COMMENCING THE REPLACEMENT OPERATION. EXCAVATION IN TRAFFIC AREAS SHALL NOT BE LEFT OPEN OVERNIGHT. ALL DRIVE APRON CONSTRUCTION SHALL FOLLOW A SCHEDULE THAT ALLOWS ACCESS TO AND FROM RESIDENCE. BUSINESS, ETC. AT ALL TIMES. THE DISRUPTION OF ACCESS TO DRIVEWAYS DUE TO THIS WORK SHALL BE KEPT TO A MINIMUM.

SIGNAGE:

THE CONTRACTOR MUST PROVIDE ADEQUATE SIGNS, MARKERS AND BARRICADES TO PROTECT PEDESTRIAN TRAFFIC, VEHICULAR TRAFFIC AND CONSTRUCTION PERSONNEL DURING THE PROGRESS OF THIS WORK. ADDITIONAL SIGNS INDICATING ENTRANCES FOR BUSINESSES IN A CONSTRUCTION ZONE ARE REQUIRED AS DIRECTED BY THE ENGINEER.

PAVEMENT DRIVE APRONS:

ALL PAVEMENT DRIVE APRONS SHALL HAVE A MINIMUM THICKNESS OF SIX (6) INCHES FOR ONE OR TWO FAMILY RESIDENTIAL DRIVEWAYS AND EIGHT (8) INCHES FOR ALL OTHER DRIVEWAYS. 6"X 6" WELDED WIRE MESH SHALL BE USED.

SIDEWALK:

ALL SIDEWALKS SHALL HAVE A MINIMUM THICKNESS OF FOUR (4) INCHES EXCEPT WITHIN THE LIMITS OF THE DRIVEWAYS, WHERE THE MINIMUM THICKNESS SHALL BE SIX (6) INCHES FOR ONE OR TWO FAMILY RESIDENTIAL DRIVEWAYS AND EIGHT (8) INCHES FOR ALL OTHER DRIVEWAYS.

ONE-HALF (1/2) INCH EXPANSION JOINTS SHALL BE PLACED AT INTERVALS NOT TO EXCEED ONE HUNDRED (100) FEET. EXPANSION JOINTS SHALL BE SEALED WITH 1/2" THICK SELF LEVELING URETHANE CHALK, LIMESTONE GRAY IN COLOR. ALL CONCRETE SIDEWALK AND/OR CURB SHALL BE OF MONOLITHIC CONSTRUCTION. ALL SIDEWALKS SHALL HAVE A FOUR (4) INCH MINIMUM SUBBASE, ODOT ITEM 304, COMPACTED TO 95% COMPACTION. CONSTRUCTION JOINTS SHALL NOT EXCEED 10 FT O.C., A 2:1 LENGTH TO WIDTH RATIO, OR MORE THAN THE WIDTH OF WALKS.

CURB RAMPS:

CURB RAMPS SHALL BE PLACED AS SHOWN ON THE PLANS. ALL SIDEWALKS SHALL CONNECT TO THE PAVEMENT OR CURB AT INTERSECTIONS WITH WHEELCHAIR RAMPS AND ONE-HALF (1/2) INCH EXPANSION JOINTS BETWEEN THE WALK AND CURB. EXPANSION JOINTS SHALL BE SEALED WITH 1/2" THICK SELF LEVELING URETHANE CHALK, LIMESTONE GRAY IN COLOR. ALL CURB RAMPS SHALL MEET THE CURRENT ADA REQUIREMENTS WITH TRUNCATED DOMES.

CONSTRUCTION SAW CUTTING:

WHERE IT IS NECESSARY TO DISTURB EXISTING PAVEMENT DRIVES, CURB RAMPS OR SIDEWALKS THE CONCRETE SHALL BE SAW CUT IN NEAT STRAIGHT LINES AS DIRECTED BY CITY. THE DEPTH OF SAW CUT SHALL BE FULL DEPTH. WHERE IT IS NECESSARY TO DISTURB EXISTING PAVEMENT DRIVES, CURBS AND/OR WALKS THE ASPHALT CONCRETE SHALL BE LINE CUT WITH STRAIGHT VERTICAL EDGES. ALL CUT BITUMINOUS SURFACES SHALL BE SEALED WITH A 4" WIDE RUBBERIZED JOINT SEALER USING A SQUEEGEE.

CONCRETE SHALL BE REMOVED IN SECTIONS. SAW CUT LINES ARE TO TAKE PLACE AT JOINTS.

CURING COMPOUND:

AN APPROVED SEALER SHALL SEAL ALL EXPOSED CONCRETE APPROPRIATE TO APPLICATION ON SURFACE OF CONCRETE. SEE ODOT SPECIFICATION 451.10 FOR APPLICATION METHODS.

STRUCTURES ENCOUNTERED:

THE CONTRACTOR SHALL ADJUST ANY "SURFACE STRUCTURE" IN THE AREA OF SIDEWALK AND/OR PAVEMENT DRIVE TO GRADE. THE CONTRACTOR SHALL FURNISH NECESSARY PARTS AND REPAIR ALL "SURFACE STRUCTURES" DAMAGED BY CONSTRUCTION OF IMPROVEMENT.

