THE OAKS AT WETHERINGTON **ROADWAY & SITE MISC. UPDATE** SECTION 18, TOWN 3, RANGE 2 WEST CHESTER TOWNSHIP BUTLER COUNTY, OH

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N/A

NOTES:





							INDEX OF	SHEETS	-	
						DRAWING NO.	DRAWING TITLE	ISSUE DATE	REVISION NO.	REVISION DATE
			CT CHIMMADV			C1.0	TITLE SHEET	06-17-19		
		PRUUE	CI JUMIMANI			C2.0	EXISTING CONDITIONS & DEMOLITION PLAN	06-17-19		
						C3.0	LAYOUT PLAN	06-17-19		
PROPOSED	ACREAGE	PROPOSED	15% MINIMUM	STREET		C3.1	SITE DETAILS	06-17-19		
USE		INTENSITY	OPEN SPACE	EASEMENT	NET SITE	C4.0	UTILITY PLAN	06-17-19		
		OF USE				C4.1	UTILITY PROFILES & DETAILS	06-17-19		
			REQUIRED			C4.2	UTILITY NOTES	06-17-19		
MIXED USE	12.45 Ac.	133,154 SF	1.87 Ac.	1.42 Ac.	11.03 Ac.	C4.3	WATER & SEWER DETAILS	06-17-19		
						C4.4	WATER & SEWER DETAILS	06-17-19		
RESIDENTIAL	5.70 Ac.	94 UNITS	0.86 Ac.	N/A	5.70 Ac.	C4.5	STORM DETAILS	06-17-19		
						C4.6	UTILITY DETAILS	06-17-19		
ΝΙ/Δ	10 15 00			1 42 4 2	16 72 4 2	C4.7	UTILITY DETAILS	06-17-19		
IN/A	10.15 AC.		2.73 AC.	1.42 AC.	10.73 AC.	C4.8	UTILITY DETAILS	06-17-19		
						C5.0	GRADING AND EROSION CONTROL PLAN	06-17-19		
*5011 014/1010 11050						C5.1	EROSION CONTROL DETAILS	06-17-19		
^FOLLOWING USES /	ARE <u>NOT</u> PERMITT		NO. 16-2004: SECTION 21.023 OF B-1			C5.2	EROSION CONTROL DETAILS	06-17-19		
22 024 22 0	29 22 0241 22 028	22 0210 22 0211 & 2	2 0212 OF THE B-2 DISTRICT			L1.0	LANDSCAPE PLAN	06-17-19		
	<i></i>									



VICINITY MAP NO SCALE

DEVELOPER

LIBERTY WAY INVESTMENTS, LLC 4016 TOWNSFAIR WAY, SUITE 201 COLUMBUS, OH 43219 PH: (614) 414-7300

ENGINEER / SURVEYOR

BAYER BECKER 6900 TYLERSVILLE ROAD, SUITE A MASON, OHIO 45040 PH: (513)336-6600

GENERAL NOTES

- 1. EXISTING ZONING SP-PUD. (RES. No. 04-2016) 2. SANITARY SEWER SERVICE CONNECTED TO INTO BUTLER
- COUNTY SYSTEM.
- 3. WATER SERVICE TO BE INSTALLED AND CONNECTED TO
- BUTLER COUNTY SYSTEM. 4. ELECTRIC TO BE SUPPLIED BY DUKE ENERGY ELECTRIC
- COMPANY. 5. EXISTING TOPOGRAPHY FROM BAYER BECKER FIELDWORK.
- 6. THE SITEWORK WILL BEGIN SUMMER 2019. 7. STORM WATER MANAGEMENT FACILITIES TO BE MAINTAINED BY PROPERTY OWNERS ASSOCIATION.
- 8. EXISTING USE: VACANT
- 9. OUTDOOR SEATING MAY ACCOMPANY RESTAURANT USES.

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SENERAL UTILITY

- ITEM NUMBERS REFER TO THE OHIO DEPARTMENT OF TRANSPORTATION (ODOT) CONSTRUCTION AND MATERIAL SPECIFICATIONS (2010) AND ALL CONSTRUCTION WORK SHALL BE DONE ACCORDING TO SAID SPECIFICATIONS AND IN ACCORDANCE WITH APPLICABLE STANDARDS OF THE GOVERNING AGENCIES. WHEN IN CONFLICT, THE MORE STRINGENT REQUIREMENTS SHALL GOVERN.
- THE CONTRACTOR SHALL FIELD VERIFY THE LOCATION AND ELEVATIONS OF ALL EXISTING UTILITIES PRIOR TO THE BEGINNING OF CONSTRUCTION OR EARTH MOVING OPERATIONS.
- FORTY-EIGHT (48) HOURS BEFORE DIGGING IS TO COMMENCE. THE CONTRACTOR SHALL NOTIFY THE OHIO UTILITY PROTECTION SERVICE (OUPS) AND ALL OTHER AGENCIES WHICH MAY HAVE UNDERGROUND UTILITIES INVOLVED IN THIS PROJECT AND ARE NOT MEMBERS OF OHIO UNDERGROUND PROTECTION, INC.
- CONTRACTOR AND OWNER SHALL VERIFY AND ACCEPT ALL QUANTITIES PRIOR TO BEGINNING CONSTRUCTION.
- CONTRACTOR SHALL VERIFY THAT COORDINATES, IF USED, MATCH PLAN DIMENSIONS. WHEN IN CONFLICT, THE PLAN DIMENSIONS SHALL GOVERN OVER COORDINATES, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
- UNLESS OTHERWISE NOTED, ALL CONSTRUCTION DETAILS SHALL CONFORM WITH THE "STANDARD CONSTRUCTION DRAWINGS OF THE STATE OF OHIO DEPARTMENT OF TRANSPORTATION".
- EXISTING SITE SURVEY, TOPOGRAPHY, AND SUBSURFACE CONDITIONS: EXISTING CONDITIONS PRESENTED IN DRAWING, REPORT OR SPECIFICATION FORM ARE BELIEVED ACCURATE WITHIN NORMAL INDUSTRY TOLERANCES BUT ARE NOT GUARANTEED. INVESTIGATE, SURVEY, CONFIRM AND VERIFY ALL CONDITIONS BEARING ON THE WORK BY ANY MEANS NECESSARY BEFORE STARTING ANY WORK THAT CHANGES EXISTING CONDITIONS. REPORT ANY UNACCEPTABLE DISCREPANCIES TO THE ENGINEER IN WRITING BEFORE BEGINNING OPERATIONS
- G.A. WRITTEN CLAIMS OF DIFFERENCE SHALL BE ACCOMPANIED BY SUBSTANTIATING EVIDENCE. CLAIMS OF DIFFERENCE SHALL BE RESOLVED, INCLUDING DETERMINATION OF QUANTITIES AND COSTS AND METHODS OF CONTRACT MODIFICATION. BEFORE WORK THAT ALTERS SUCH EXISTING CONDITIONS IS STARTED.
- INITIATION OF SITE-CLEARING, SOIL-MOVING OPERATIONS, DEMOLITION OR OTHER GB ACTIVITY THAT ALTERS EXISTING CONDITIONS SHALL BE EVIDENCE THAT CONTRACTOR HAS MADE ALL INVESTIGATIONS AND EVALUATIONS IT DEEMS NECESSARY AND HAS ACCEPTED ALL EXISTING CONDITIONS PRESENT WHETHER OR NOT THEY CONFORM EXACTLY TO THE DOCUMENTS.
- G.C. WITHOUT ADVANCE WRITTEN NOTIFICATION OF UNACCEPTABLE DISCREPANCY, NO CLAIM FOR EXTRA WILL BE CONSIDERED FOR A CLAIM OF DIFFERENCE BETWEEN DOCUMENTS AND ACTUAL CONDITIONS AFTER THE CONTRACTOR HAS ALTERED EXISTING CONDITIONS.
- BACKFILL OF ALL UTILITY EXCAVATIONS IN STRUCTURAL AREAS INCLUDING UNDER PAVEMENTS OR WITHIN TWENTY (20) FEET OF ANY BUILDING AREAS SHOULD BE CONTINUALLY MONITORED BY A REPRESENTATIVE OF THE PROJECT GEOTECHNICAL ENGINEER TO VERIFY & DOCUMENT THAT PROPER LIFT THICKNESS, MOISTURE CONDITION, AND COMPACTIVE EFFORT ARE MAINTAINED.
- CONTRACTOR SHALL VERIFY ALL UTILITY AND CONDUIT SIZES AND LOCATIONS WITH THE ARCHITECTURAL, MECHANICAL, AND STRUCTURAL DRAWINGS PRIOR TO BEGINNING CONSTRUCTION ACTIVITIES.
- ALL BUILDING UTILITY SERVICES ARE TO BE STUBBED 5 FT. FROM THE BUILDING FOR CONNECTION BY INTERIOR CONTRACTOR.
- ALL UTILITY TRENCHES PROPOSED WITHIN THE LIMITS OF EXISTING PAVEMENT AND WITHIN THE PUBLIC RIGHT-OF-WAY SHALL BE BACKFILLED TO SUBGRADE WITH CONTROL DENSITY FILL TO A DISTANCE OF 5 FT BEYOND THE BACK OF CURB.
- BUTLER COUNTY WATER & SEWER DOES NOT ACCEPT ANY RESPONSIBILITY FOR THE RELOCATION, REPAIR, OR REPLACEMENT OF ANY OTHER UTILITY INSTALLED WITHIN 5 FT OF THE CENTERLINE OF ANY SANITARY SEWER MAIN OR WATER MAIN.
- CONTRACTOR SHALL OBTAIN RIGHT OF WAY & UTILITY PERMIT FROM BUTLER COUNTY ENGINEERS OFFICE FOR ALL ROADWAY WORK PROPOSED WITHIN THE PUBLIC RIGHT OF WAY. (LIBERTY WAY, TAYLOR STREET, TYLERSPACE BLVD, & PRESERVE PLACE)

STORM SEWERS

- ALL WORK AND MATERIALS ARE TO CONFORM TO THE 2010 EDITION OF ODOT CONSTRUCTION AND MATERIALS SPECIFICATIONS AND BUTLER COUNTY ENGINEERS SPECIFICATIONS. WHEN IN CONFLICT, THE MORE STRINGENT REQUIREMENTS SHALL PREVAIL.
- STORM SEWER PIPES DESIGNATED AS "STM" SHALL MEET THE MATERIAL & INSTALLATION REQUIREMENTS OF ODOT ITEM 603, TYPE B CONDUITS AND AS FOLLOWS:
- NON-REINFORCED CONCRETE PIPE PER ODOT SPECIFICATION 706.01
- REINFORCED CONCRETE CIRCULAR PIPE PER ODOT SPECIFICATION 706.02
- PRECAST REINFORCED CONCRETE BOX SECTIONS PER ODOT SPECIFICATION 706.05 REINFORCED CONCRETE ELLIPTICAL CULVERT, STORM DRAIN, AND SEWER PIPE PER
- ODOT SPECIFICATION 706.04 ALUMINIZED TYPE 2 CORRUGATED STEEL PIPE AND PIPE ARCHES WITH PAVED INVERT
- PER ODOT SPECIFICATIONS 707.01 OR 707.02 CORRUGATED STEEL SPIRAL RIB CONDUITS PER ODOT SPECIFICATIONS 707.12
- CORRUGATED POLYETHYLENE SMOOTH LINED PIPE PER ODOT SPECIFICATION 707.33
- 8. POLYVINYL CHLORIDE PROFILE WALL PIPE PER ODOT SPECIFICATION 707.42
- PIPE BEDDING AND TRENCH BACKFILL SHALL BE PER ODOT 603 AND STANDARD DRAWING DM-1.4 CONDUIT INSTALLATION. CONTRACTOR SHALL PROVIDE AN ALTERNATE BID ITEM TO PROVIDE STRUCTURAL BACKFILL FOR ALL TRENCHES TO PAVEMENT SUBGRADE.
- ALL STORM STRUCTURES ARE ODOT TYPES UNLESS OTHERWISE INDICATED.
- ALL CATCH BASINS SHALL BE EQUIPPED WITH HEAVY DUTY, BICYCLE SAFE GRATES CAPABLE OF CARRYING AN HS-25 LOADING, UNLESS OTHERWISE NOTED.
- ANY EXISTING STORM SEWER CUT IN EXCAVATION WHICH DRAINS AN OFFSITE AREA MUST BE TIED INTO THE STORM SEWER SYSTEM.
- ALL CATCH BASINS IN THE PAVEMENT OR CURB ARE TO HAVE A MINIMUM OF TWO FOUR (4) INCH PERFORATED UNDERDRAINS EXTENDING TEN (10) LINEAR FEET FROM THE CATCH BASIN. UNDERDRAINS SHALL BE PLACED ONE ON EACH SIDE OF THE STORM SEWER AND AS NEAR TO PERPENDICULAR TO THE STORM SEWER AS IS PRACTICAL WITHOUT INTERFERING WITH STORM PIPES SHOWN ON THE PLANS. SEE PAVEMENT UNDERDRAIN DETAILS.
- AS THE INSTALLATION OF THE STORM SEWER PROGRESSES, EROSION CONTROL MEASURES SHALL BE PLACED AT INLET AND OUTLET OF SEWERS TO CONTROL THE SILT
- SUMP LINE CONDUITS ARE TO BE SDR 35, ARMCO 2000, OR EQUIVALENT.
- ALL JOINTS SHALL BE SOIL SEAL JOINTS UNLESS SPECIFICALLY NOTED ON THE PLANS.
- STORM WATER AND EXTRANEOUS FLOWS ARE PROHIBITED FROM ENTERING THE EXISTING SYSTEM DURING CONSTRUCTION. NO OPEN CUT TRENCHES WILL BE ALLOWED TO REMAIN OPEN OVERNIGHT. STORM DRAINS, DIVERSION DITCHES, PUMPS ETC., SHALL BE USED AS REQUIRED TO MAINTAIN THE INTEGRITY OF THE SYSTEM AT ALL TIMES.
- ALL CATCH BASINS WITH A DEPTH GREATER THAN 4.0 FT SHALL BE PROVIDED WITH STEPS. STEPS SHALL MEET THE REQUIREMENTS OF ODOT STANDARD 604 AND SHALL CONFORM TO THE DETAILS SHOWN ON DETAIL 5/C4.4.
- ALL STORM SEWER SHALL HAVE A MAXIMUM MANNING'S ROUGHNESS COEFFICIENT OF 0.015.
- I. ROOF DRAINS ARE TO BE PER ODOT 707.33, 707.42, OR 707.45.

N. DEFLECTION TESTING FOR STORM SEWERS AND CULVERTS:

15% OF ALL STORM SEWERS SHALL BE TESTED FOR DEFLECTION WITHIN THIRTY DAYS AFTER THEY ARE COMPLETE. BUTLER COUNTY ENGINEER OR HIS DESIGNATED REPRESENTATIVE WILL DETERMINE WHAT 15% SHALL BE TESTED. IF ANY STORM SEWER IN THE ORIGINAL 15% IS FOUND OUT OF COMPLIANCE, DEFLECTION TESTS WILL BE REQUIRED ON 100% OF THE REMAINING STORM SEWER. A VERTICAL RING DEFLECTION GREATER THAN 5% WILL NOT BE ALLOWED. THIS DEFLECTION IS DEFINED AS 5% REDUCTION IN THE VERTICAL BASE OR AVERAGE INSIDE DIAMETER. THE METHOD OF TESTING SHALL BE SUBJECT TO THE APPROVAL OF THE ENGINEER. IF RIGID BALLS OR MANDRELS ARE USED TO TEST PIPE DEFLECTION, NO MECHANICAL PULLING DEVICES SHALL BE USED. THE DEFLECTION TEST MAY BE CONDUCTED WITH A NINE PRONG MANDREL, A BALL OR A CYLINDER OR ANOTHER MANNER ACCEPTABLE TO THE BUTLER COUNTY ENGINEER OR HIS DESIGNATED REPRESENTATIVE. THE TESTING WILL BE ACCOMPLISHED FROM MANHOLE TO MANHOLE OR CATCH BASIN TO CATCH BASIN, FOLLOWING THE COMPLETE FLUSHING OF THE LINE. THE CONTRACTOR SHALL FURNISH ALL EQUIPMENT REQUIRED TO COMPLETE THE DEFLECTION TESTING. THE DEFLECTION TEST SHALL BE WITNESSED BY THE COUNTY ENGINEER OR HIS DESIGNATED REPRESENTATIVE. ANY SECTION OF PIPE THAT FAILS TO MEET THE AFOREMENTIONED REQUIREMENTS SHALL BE REROUNDED BY A PROCEDURE ACCEPTABLE TO THE COUNTY OR BE EXCAVATED AND EITHER BE RELAYED OR REPLACED, AND RE-TESTED UNTIL THE REQUIREMENTS ARE MET.

TELEPHONE SERVICE TO BUILDING

- A. TELEPHONE CONDUITS SHALL BE PVC SCH. 40 PRIVATELY OWNED (PO) CONDUITS, FOR TELEPHONE COMPANY USE, FROM THE PROPOSED BACK BOARD LOCATION TO THE POINT OF CONNECTION BY THE UTILITY PROVIDER. CONDUITS SHALL MEET THE REQUIREMENTS OF TELEPHONE SERVICE PROVIDER.
- WRAP THE END OF THE CONDUIT WITH A SUITABLE MATERIAL TO PREVENT CLOGGING UNTIL THE CABLE IS PLACED. TELEPHONE SERVICE PROVIDER WILL MAKE CONNECTION AT THIS POINT
- FLAG OR IDENTIFY THE END OF THE CONDUIT IN ORDER TO DESIGNATE THE POINT OF
- р POWER OR OTHER FOREIGN CONDUIT MUST BE SEPARATED FROM TELEPHONE CONDUIT
- BY A MINIMUM OF 12" OF EARTH OR 6" OF CONCRETE CONDUIT MUST BE PLACED AT A MINIMUM DEPTH OF 24" AND A MAXIMUM OF 36".
- PROVIDE A 200# TEST PULL LINE IN CONDUIT. G. ALL BENDS MUST BE LONG, SWEEPING BENDS WITH A RADIUS NOT LESS THAN TEN TIMES THE INTERNAL DIAMETER OF CONDUIT. WITH A MAXIMUM OF 180 DEGREES OF BENDS
- BETWEEN PULLING POINTS. WHEN 180 DEGREES OF BENDS ARE REQUIRED, A PULL BOX WILL BE REQUIRED. H. CONDUIT ENTERING FROM BELOW GRADE POINT MUST EXTEND 4" ABOVE FINISHED
- FLOOR.

SANITARY SEWERS

- ALL WORK AND MATERIAL SHALL CONFORM TO THE REQUIREMENTS OF THE BUTLER Α. COUNTY WATER & SEWER DEPARTMENT'S, "STANDARD SPECIFICATIONS AND DETAILS FOR WATER & SANITARY SEWER CONSTRUCTION."
- ROOF DRAINS, FOUNDATION DRAINS, AND ALL OTHER CLEAN WATER CONNECTIONS TO THE SANITARY SEWER SYSTEM ARE PROHIBITED.
- C. SANITARY CONNECTIONS TO EXISTING MANHOLES (IF APPLICABLE) MUST BE CORE DRILLED AND RUBBER GASKET INSTALLED.
- D. NO BUILDING SHALL BE CONNECTED TO A SEWER LATERAL UNTIL THE BUILDING IS UNDER ROOF.
- SANITARY SHALL BE A MINIMUM OF SDR 35 FOR DEPTHS LESS THAN 16 FEET AND SDR 26 FOR DEPTHS GREATER THAN OR EQUAL TO 16 FEET.
- ALL SANITARY SEWER MANHOLES, CASTINGS, PIPE, ETC., SHALL CONFORM WITH CURRENT SPECIFICATIONS OF THE BUTLER COUNTY SANITARY ENGINEER AND THE OHIO ENVIRONMENTAL PROTECTION AGENCY.
- SANITARY LATERALS SHALL BE EXTENDED TO AT LEAST TEN (10) FEET BEYOND THE
- H. SANITARY SEWER MATERIALS AND INSTALLATION TO BE AS PER BUTLER COUNTY DEPARTMENT OF WATER & SEWER SPECIFICATIONS, USING SECTION 3110 FOR PVC SDR-35 & 26 PIPE; SECTION 3140 FOR ABS OR PVC COMPOSITE PIPE; SECTION 3410 FOR MANHOLES AND SECTION 3510 FOR SERVICE LATERAL CONNECTIONS.
- BEDDING AND BACKFILL SHALL BE PER SECTION 3730. TRENCH BACKFILL FROM 12" ABOVE THE PIPE TO THE SURFACE SHALL BE NATIVE OR GRANULAR MATERIAL PER 1180. SEWERS LESS THAN 5 FEET FROM AN EXISTING CURB OR UNDER EXISTING PAVEMENT (APPLIES TO PUBLIC ROADWAYS ONLY) SHALL BE BACKFILLED WITH CONTROL DENSITY FILL PER BUTLER COUNTY ENGINEERS OFFICE SPECIFICATIONS.

J. CROSSINGS:

- WHENEVER A SANITARY SEWER AND WATER MAIN MUST CROSS, THE SEWER SHALL BE AT SUCH AN ELEVATION THAT THE CROWN OF THE SEWER IS AT LEAST 18 INCHES MEASURED BETWEEN THE OUTSIDE PIPE WALLS, BELOW THE BOTTOM OF THE WATER MAIN. IF IT IS ABSOLUTELY IMPOSSIBLE TO MAINTAIN THE 18 INCH VERTICAL SEPARATION, THE WATER MAIN SHALL BE RELOCATED OR THE SEWER SHALL BE CONSTRUCTED AS FOLLOWS:
- JA. A SEWER PASSING OVER OR UNDER THE WATER MAIN SHALL BE ENCASED OR CONSTRUCTED OF MATERIALS THAT ARE EQUIVALENT TO WATER MAIN STANDARDS OF CONSTRUCTION FOR A MINIMUM DISTANCE OF 10 FEET ON EACH SIDE OF THE WATER MAIN.
- JB. THE SEWER CROSSING SHALL BE CONSTRUCTED SO THAT THE SEWER JOINTS WILL BE EQUIDISTANT AND AS FAR AS POSSIBLE FROM THE WATER MAIN JOINTS. JC. WHERE A WATER MAIN PASSES UNDER A SEWER, ADEQUATE STRUCTURAL SUPPORT
- K. ALL BUILDINGS TO BE SERVED BY THE PUBLIC SEWER SYSTEM SHALL BE CONSTRUCTED SO AS TO PROVIDE A MINIMUM OF 4 FT OF VERTICAL SEPARATION BETWEEN THE PUBLIC SANITARY SEWER AT THE POINT OF CONNECTION AND THE LOWEST BUILDING LEVEL SERVED BY A GRAVITY SEWER CONNECTION. IN ADDITION, SAID BUILDING LEVEL SHALL BE AT LEAST 1 FT ABOVE THE LOWEST POINT OF FREE-OVERFLOW (NON-SEALED MANHOLE COVER) UPSTREAM OF ANY TREATMENT FACILITY OF WASTEWATER PUMPING FACILITY THAT RECEIVES THE DISCHARGE FROM SAID BUILDING. SAID MINIMUM SERVICE LEVELS SHALL BE RECORDED ON THE "AS-BUILT" PLANS FOR THE DEVELOPMENT WHICH WILL BE KEPT ON FILE IN THE OFFICE OF THE BUTLER COUNTY DEPARTMENT OF WATER & SEWER.
- L. ALL SANITARY SEWER LATERALS SHALL BE AT LEAST 4 FEET BELOW A PROPOSED BASEMENT FLOOR ELEVATION AT THE POINT OF CONNECTION TO SEWER MAIN AND SHALL NOT EXCEED A DEPTH OF 12 FEET BELOW FINISH GRADE AT THE END OF THE LATERAL AT THE RIGHT-OF-WAY UNLESS SPECIFICALLY AUTHORIZED BY THE COUNTY.
- M. PROVIDE THE BUTLER COUNTY ENGINEER'S OFFICE WITH A FORTY-EIGHT (48) HOUR NOTICE PRIOR TO THE START OF ANY CONSTRUCTION, INCLUDING SANITARY INSTALLATION BY CALLING (513) 785-4145.
- N. SANITARY SEWER LATERALS, WHICH SHALL INCLUDE ALL PIPE AND APPURTENANCES FROM THE BUILDING TO THE PUBLIC SEWER MAIN, AND THE CONNECTION TO THE PUBLIC SEWER MAIN SHALL BE CONSIDERED PRIVATE AND THE RESPONSIBILITY OF THE PROPERTY OWNER TO MAINTAIN. THE CONNECTION TO THE SEWER MAIN WOULD BE ANY PIPING THAT EXTENDS OUT FROM THE MAIN BARREL OF THE SEWER MAIN.
- O. GREASE INTERCEPTORS SHALL BE PROVIDED PER BUTLER COUNTY DEPARTMENT OF WATER & SEWER, "FATS, OILS, AND GREASE CONTROL RULE FOR FOOD SERVICES ESTABLISHMENTS" SEE BUTLER COUNTY STANDARD DETAIL FOR MINIMUM SIZE REGULATIONS. ALL GREASE INTERCEPTORS LOCATED WITHIN AN AREA SUBJECT TO VEHICULAR TRAFFIC SHALL BE DESIGNED TO BE TRAFFIC BEARING. MARK END OF LATERAL WITH 2X4 PAINTED GREEN; MIN 3' ABOVE GROUND.

ELECTRIC SERVICES

- A. ELECTRIC SERVICE SHALL MEET THE REQUIREMENTS OF THE UTILITY PROVIDER. B. ALL ELECTRICAL TRANSFORMERS SHALL BE LOCATED SO THAT THEY DO NOT INTERFERE
- WITH THE EXISTING MANHOLES OR WATER MAIN APPURTENANCES. CONDUITS SHALL BE SPACED 2" APART FROM EACH OTHER.
- D. CONDUITS SHALL BE INSPECTED BY DUKE ENERGY PERSONNEL PRIOR TO BACKFILLING. CONTRACTOR SHALL INSTALL ALL MANHOLES, CABLE PITS, TRANSFORMER PADS, CONDUIT, PULL STRINGS AND STUBS AS INDICATED ON PLANS AND PER DUKE ENERGY STANDARDS

CONNECTION BETWEEN TELEPHONE SERVICE PROVIDER AND ENTRANCE CONDUIT.

PROPERTY/RIGHT-OF-WAY OR TO THE EDGE OF THE EASEMENT, WHICHEVER IS GREATER.

SHALL BE PROVIDED FOR THE SEWER TO PREVENT DAMAGE TO THE WATER MAIN.

WATER MAINS

ALL WATER WORK AND WATER MAIN MATERIALS INCLUDING PIPE, FITTINGS, VALVES,
HYDRANTS, AND INSTALLATION SHALL CONFORM TO THE REQUIREMENTS OF THE BUTLER
COUNTY WATER & SEWER DEPARTMENT'S, "STANDARD SPECIFICATIONS AND DETAILS FOR
WATER & SANITARY SEWER CONSTRUCTION."

- ALL PUBLIC WATER MAIN MATERIALS, VALVES, FIRE HYDRANTS, FITTINGS, AND APPURTENANCES SHALL BE CLASS 53 DUCTILE IRON PER AWWA C-151, MEETING THE **REQUIREMENTS OF SECTION 2110.**
- UNLESS OTHERWISE DIRECTED BY THE UTILITY PROVIDER OR FIRE DEPARTMENT, ALL PRIVATE FIRE HYDRANT'S SHALL BE FACTORY PAINTED RED AND ALL PUBLIC FIRE-HYDRANT'S SHALL BE FACTORY PAINTED YELLOW. COLORS TO MEET THE REQUIREMENTS OF THE GOVERNING AGENCIES. ALL FIRE HYDRANTS ARE TO BE CONSIDERED PUBLIC UNLESS OTHERWISED NOTED.
- D. PRIVATE MAINS AND APPURTENANCES SHALL MEET OR EXCEED THE REQUIREMENTS OF THE GOVERNING AGENCY.
- E. FIRE DEPARTMENT CONNECTION (STORTZ CONNECTION) SHALL BE WITHIN 100 FT. OF A PUBLIC FIRE HYDRANT OR A FIRE HYDRANT OFF OF THE MAIN BETWEEN THE PUBLIC MAIN AND THE METER PIT.
- F. FIRE DEPARTMENT CONNECTION LINE SHALL TIE INTO THE FIRE SUPPRESSION SYSTEM ON THE BUILDING SIDE OF THE PUMP IF A PUMP IS INSTALLED.
- G. ALL FIRE HYDRANT VALVES AND WATER VALVES SHALL BE ENCASED IN A MIN. 6" CONCRETE SLAB MEETING THE REQUIREMENTS OF THE GOVERNING AGENCY.
- H. BEDDING AND BACKFILL SHALL BE PER SECTION 2560. TRENCH BACKFILL FROM 12" ABOVE THE PIPE TO THE SURFACE SHALL BE NATIVE OR GRANULAR MATERIAL PER 1180. COMPACTED TO 98% PER ASTMD698. WATERMAIN LESS THAN FIVE (5) FEET FROM EXISTING PUBLIC CURB, UNDER CURB OR EXISTING PUBLIC PAVEMENT (APPLIES TO PUBLIC ROADWAYS ONLY) BACKFILL SHALL BE CONTROLLED DENSITY FILL PER BUTLER COUNTY ENGINEERS OFFICE SPECIFICATIONS.
- I. WATER MAINS SHALL MAINTAIN A MINIMUM COVER OF FOUR (4) FEET.
- J. ALL WATER MAIN VALVES SHALL HAVE A MINIMUM DEPTH OF 2.5 FT. AND MAXIMUM DEPTH OF 4.0 FT. FROM PROPOSED GRADE TO THE TOP OF THE VALVE OPERATING NUT.
- K. A MINIMUM CLEAR DISTANCE OF TEN (10) FEET HORIZONTAL OR EIGHTEEN (18) INCHES VERTICAL SHALL BE MAINTAINED BETWEEN SANITARY AND/OR STORM SEWERS AND WATER MAINS.
- SANITARY AND STORM SEWERS THAT CROSS WATER MAINS SHALL BE LOCATED SUCH THAT THE SEWER JOINTS WILL BE EQUIDISTANT AND AS FAR AS POSSIBLE FROM THE WATER MAIN JOINTS.
- M. ALL WATER MAINS SHALL BE PROVIDED WITH JOINT RESTRAINT AT ALL TEES, HORIZONTAL AND VERTICAL BENDS, ETC...WHETHER SHOWN ON THE PLAN VIEW OR NOT. JOINT RESTRAINT SHALL MEET THE REQUIREMENTS OF SECTION 2130. (SEE WATER MAIN RESTRAINED JOINT LOCATION CHART 1/C4.1)
- N. SERVICE PIPING THREE (3) INCHES AND LARGER SHALL BE AWWA C-151, CLASS 53 DUCTILE IRON, MEETING THE REQUIREMENTS OF THE SECTION 2410. AS AN ALTERNATE, THE CONTRACTOR MAY SUPPLY POLYVINYL CHLORIDE (PVC) PRESSURE PIPE, 4" THROUGH 12", FOR WATER DISTRIBUTION PER AWWA
- C-900, DR-18, CLASS 235 PSI. FITTINGS SHALL BE PER BCWS SPECIFICATION SECTION 2410. ALL TEES, PLUGS, CAPS, BENDS, REDUCERS, VALVES AND HYDRANT BRANCHES SHALL BE RESTRAINED AGAINST MOVEMENT BY USING THRUST BLOCKS OR RESTRAINED JOINT SYSTEMS APPROVED FOR USE WITH PVC AWWA C-900 PIPE AND AS PERMITTED BY NFPA 24 THE ALTERNATE MATERIAL SPECIFICATION MAY BE APPLIED TO THE PORTION OF THE WATER K. TRENCH SECTIONS SHALL MAIN MAIN BETWEEN THE METER VAULT AND THE BUILDING. THE PORTION OF THE WATER MAIN BETWEEN THE PUBLIC MAIN AND METER SHALL MEET THE REQUIREMENTS OF BCWS SECTION 2110.
- O. SERVICE PIPING SMALLER THAN THREE (3) INCHES SHALL BE SEAMLESS COPPER FLEXIBLE WATER TUBING, ASTM B 88, TYPE K, PRESSURE CLASS 250.
- O.A. FITTINGS SHALL BE COMPRESSION STYLE FOR CTS TUBING, CONSULT GOVERNING AGENCY FOR A LISTING OF ACCEPTABLE MANUFACTURERS AND PRODUCTS.
- O.B. COUPLINGS WITH SET SCREWS OR GRIP RINGS WILL NOT BE ACCEPTABLE.
- O.C. WATER SERVICE TUBING SHALL BE BEDDED SIX (6) INCHES ABOVE AND BELOW WITH SAND OR OTHER NON-COMPACTIBLE MATERIAL APPROVED BY THE GOVERNING AGENCY. P. BUTLER COUNTY WATER AND SEWER DEPARTMENT SHALL ESTABLISH PROCEDURES FOR REPAIRS TO WATER MAIN OR WATER SERVICES DAMAGED.
- Q. ALL WATER METER PITS SHALL CONFORM TO THE MATERIALS AND SPECIFICATIONS OF THE GOVERNING AGENCY.
- R. THE FOLLOWING ITEMS ARE TO BE APPROVED BY THE FIRE DEPARTMENT: R.A. INSTALLATION OF ALL UNDERGROUND FIRE SUPPRESSION LINES ARE TO BE INSPECTED BY THE FIRE DEPARTMENT; INSTALLERS ARE REQUIRED TO BE LICENSED BY THE OHIO FIRE MARSHALL
- R.B. WATER SUPPLY AND CONNECTIONS TO THE SUPPLY.
- R.C. PRESSURE REGULATORS OR METERS ON THE WATER SUPPLY LINES. R.D. LOCATION AND/OR OMISSION OF FD CONNECTIONS.
- R.E. FD CONNECTION HOSE CONNECTION THREADS (CAPS ALSO REQUIRED)
- R.F. USE OF CONTROL VALVES IN WATER SUPPLY OTHER THAN INDICATING VALVES.
- R.G. SIZE AND LOCATION OF VALVE PITS; USE OF BURIED VALVES OR PITS. R.H. LOCATION AND IDENTIFICATION OF SECTION VALVES IN UNDERGROUND WATER
- SUPPLIES. R.I. TYPE, ARRANGEMENT, LOCATION, IDENTIFICATION, THREADS, PROTECTION OF ALL
- HYDRANTS
- R.J. UNDERGROUND PIPING INSTALLATION METHODS AND PROCEDURES.
- R.K. HYDROSTATIC TESTING OF UNDERGROUND SYSTEMS; FIRE DEPT. MUST BE CALLED TO WITNESS TESTING; PROVIDE COPY OF CONTRACTOR'S MATERIAL & TEST CERTIFICATE FOR UNDERGROUND SYSTEM. AMOUNT OF PIPE LEAKAGE TO BE ACCEPTABLE TO FIRE DFPT
- R.L. FLUSHING OF UNDERGROUND SYSTEM TO BE WITNESSED BY FIRE DEPT. R.M. HYDRANT OPERATING TEST TO BE WITNESSED BY FIRE DEPT.

UTILITY AS-BUILT REQUIREMENTS

THE CONTRACTOR SHALL PROVIDE AS-BUILT INFORMATION TO THE OWNER AS DESCRIBED BELOW:

STORM WATER SYSTEM:

- HORIZONTAL DISTANCE BETWEEN STORM STRUCTURES
- INVERT ELEVATION OF EACH PIPE CONNECTED TO STORM STRUCTURE • TOP OF GRATE AND/OR MANHOLE ELEVATION
- COORDINATES OF CENTER OF STORM STRUCTURE
- PIPE SIZE AND SLOPE
- DETENTION BASIN VOLUME CALCULATION
- LOCATION, ELEVATION AND SIZE OF DETENTION BASIN OUTLET STRUCTURES INCLUDING PIPES, ORIFICES, WEIRS, ETC.
- SANITARY: • SANITARY PIPE INVERTS
- MANHOLE RIM ELEVATIONS
- COORDINATES OF MANHOLE CENTER • COORDINATES OF END OF ALL SERVICE LATERALS INCLUDING INVERT ELEVATION
- CALCULATED MINIMUM BASEMENT ELEVATIONS

WATER:

- MAIN LINE AND HYDRANT VALVE DEPTHS
- COORDINATES FOR ALL APPURTENANCES INCLUDING PIPE BENDS
- COORDINATES OF THE END OF ALL WATER SERVICES INCLUDING TOP OF PIPE ELEVATION COORDINATES FOR ALL PIPE BENDS INCLUDING TOP OF PIPE ELEVATIONS

THE AS-BUILT INFORMATION SHALL BE PREPARED BY A PROFESSIONAL ENGINEER OR SURVEYOR LICENSED IN THE STATE OF OHIO AND ELEVATION DATA SHALL BE PROVIDED IN NAD-83 OHIO SOUTH STATE PLANE SYSTEM, US SURVEY FOOT. (FIPS CODE 3401). AS-BUILT SURVEY DATA SHALL BE OBTAINED WITH SUB-DECIMETER ACCURACY EXCEPT VERTICAL INFORMATION OF GRAVITY FI WHICH SHALL BE OBTAINED WITH SUB-CENTIMETER ACCURACY. THE AS-BUILT INFORMATION SHALL BE TRANSPOSED ON A COPY OF THE CONSTRUCTION DRAWINGS IN RED INK AND PROVIDED TO THE OWNER FOR REVIEW.

CONDUIT SHALL BE FITTED EACH END. MARK ENDS OF TAPE A.B. TELEPHONE: 4" PVC SCH 40 INSTALLATION BY CONTRAC MANHOLES TO BE INSTALLE FITTED WITH A PULL STRING ENDS OF EACH TELEPHONE A.C. CABLE: 4" PVC SCH 40 CONE STRING AND SECURELY CA CONDUIT WITH BLUE MARKI A.D. GAS: ALL GAS MAINS SHALL A.E. GAS CONDUIT SLEEVE: GAS WITH A 4'X2' PULL PIT EVER **BE INSTALLED 6" ABOVE TH** B. UTILITY TRENCHES SHALL BE NE **REQUIRED TO PERMIT INSTALLA** BACKFILL. WIDTHS AND DEPTHS ARE APPROXIMATE. CENTERLINES SHOWN ON PLAN C. BENDS SHALL BE ACCOMPLISHE RADIUS BENDS. DEFLECTIONS PRE-MANUFACTURED 11.25° OR D. REFER TO GRADING PLAN SHEE INDICATED ON TRENCH. E. LOW STRENGTH MORTAR (LSM) ODOT ITEM 613 LSM 50 MIX. F. CONDUITS INDICATED FOR FUT LOCATED, DOCUMENTED ON CO PRESSURE TREATED 2X4 AT THE

GENERAL CONDUIT INST

A. CONDUITS INDICATED IN THE TR

A.A. ELECTRIC: 5" INNER DIAMET

FOLLOWS:

- G. THERE SHALL BE A MINIMUM OF EXITING ELECTRIC AND TELEPH
- H. COORDINATES GIVEN ARE TO C CONTRACTOR SHALL MAKE ADJ INSTALLATION WHEN CONDUITS
- CONTRACTOR SHALL INCLUDE SUPPORTS IN ORDER TO ACCOM SHOWN.
- J. CONDUITS SHALL MAINTAIN A MI CROSSINGS AND A MINIMUM OF AND A MINIMUM OF 18" CLEAR FI BANKS MAY BE ADJUSTED TO A PLACING SOME CONDUITS OVER THE CROSSING.
- DISTANCE FROM WATER, SANITA
- TRENCH SECTIONS MAY BE MOD CONDUITS SHOWN ON THE SEC DISTANCES ARE MAINTAINED.
- M. ALL TRENCHES WITHIN R/W OR BE BACKFILLED WITH ODOT ITEI 203. COMPACTION TESTING REP

TELEPHONE INFRASTR

- TELEPHONE CONDUIT AND MAN BELL AND INSTALLED BY THE C LOCATIONS WITH BILL SAVITZ
- B. TELEPHONE CONDUITS SHALL PRIOR TO BACKFILL OR ENCAS C. INSTALLATION OF MANHOLES A
- STANDARDS. D. CONDUITS SHALL BE SEPARATE 12" OF EARTH.

		-					
ALLATION NOTES	GAS FACILITIES AND SERVICES	ERVED					
RENCH SECTIONS ON SHEETS C4.6 SHALL BE AS	A. FOR GAS ENGINEERING NOTIFICATION, AGREEMENTS AND OFFICIAL CORRESPONDENCE RELATED TO DUKE ENERGY,	'S RES					
ER UL LISTED SCHEDULE 40 RATING AT 90°C. ALL WITH A PULL STRING AND SECURELY CAPPED AT EACH ELECTRIC CONDUIT WITH RED MARKING	ADDRESS TO: DUKE ENERGY GAS ENGINEERING DEPARTMENT	ALL RIGHT					
	P.O. BOX 960, ROOM 460 ANNEX CINCINNATI, OH 45273-9598	IGHT -					
CONDUIT PROVIDED BY UTILITY COMPANY FOR CTOR. UTILITY COMPANY WILL SUPPLY ALL	B. THE GAS MAIN INFORMATION PROVIDED SHOWS THE	SOPYR					
ED BY CONTRACTOR. ALL CONDUIT SHALL BE G AND SECURELY CAPPED AT EACH END. MARK E CONDUIT WITH ORANGE MARKING TAPE.	APPROXIMATE LOCATIONS AND DEPTHS OF COVER AND IS PROVIDED TO COMPLY WITH STATUTORY REGULATIONS. THIS INFORMATION SHOULD BE USED ONLY FOR PLANNING	, . OLE RISK. C					
DUIT. ALL CONDUIT SHALL BE FITTED WITH A PULL	NOT CONSTRUCTION.	ER'S S(
PPED AT EACH END. MARK ENDS OF EACH CABLE ING TAPE.	C. ALL GAS MAIN DEPTHS OF COVER IF NOTED ARE APPROXIMATE DEPTHS OF COVER RECORDED AT THE TIME						
L BE PROVIDED AND INSTALLED BY DUKE ENERGY.	OF INSTALLATION. ANY RESULTING GRADE CHANGES SINC THE TIME OF THE MAIN INSTALLATION WILL CAUSE THE	NE SO					
S CONDUITS SLEEVES SHALL BE PVC OR HDPE	EXISTING DEPTHS OF COVER TO BE DIFFERENT. EXTREME CARE MUST BE TAKEN TO ENSURE SAFE EXCAVATION WHE	N S					
Y 100'. A 2" WIDE YELLOW CAUTION TAPE SHALL E CONDUIT PER DUKE ENERGY STANDARDS.	APPROACHING KNOWN OR SUSPECTED GAS FACILITIES.	B, AND					
EATLY EXCAVATED TO THE WIDTHS AND DEPTHS	D. GAS SERVICE SHALL MEET THE REQUIREMENTS OF THE UTILITY PROVIDER.	N OF B					
TION OF CONDUITS, SUPPORT STRUCTURES, AND SLISTED ON THE TRENCH SECTIONS SHEETS C4.6	E. GAS SERVICE SHALL BE POLYETHYLENE PIPE MEETING THE REQUIREMENTS OF ASTM D-2513 AND THE PLASTIC PIPE	ERMISSIO					
S ARE TO THE CENTER OF THE TRENCH, ALL	INSTITUTE PE 2406 FOR MEDIUM DENSITY PIPE.	TTEN P					
ED WITH PRE-MANUFACTURED LONG SWEEP	F. ALL GAS SERVICES WERE INSTALLED AT A MINIMUM OF 1'-6 OF COVER. SEE NOTE C. ABOVE.	T WRI	:				
22.5° BENDS.	G. FOR ADDITIONAL GAS FACILITY RECORD INFORMATION, CA		n: Ch	+++	++		+
T C5.0 FOR TOP OF PAVEMENT ELEVATIONS AS	(513) 287-3636.H. TO COMPLY WITH FEDERAL AND STATE REGULATIONS	BE MADE	N D V	+++	++		+
BACKFILL SHALL MEET THE REQUIREMENTS OF	CONCERNING DAMAGE PREVENTION PROGRAMS, THE UTILITY COMPANIES MUST BE CONTACTED AT LEAST 48 HOURS (2 WORKING DAYS) PRIOR TO EXCAVATION BY	RT, MAY	Date				
JRE USE OR TO BE STUBBED SHALL BE GPS	CALLING THE OHIO UTILITIES PROTECTION SERVICE (OUPS), VI		T			
E END OF THE CONDUITS.		ĹE, OR					
10' OF STRAIGHT CONDUIT WHEN ENTERING OR	J. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL	OHW NI					
	DAMAGES TO GAS FACILITIES DURING OR AS A RESULT OF THE CONTRACTOR'S CONSTRUCTION, ALL DAMAGE TO GAS						
USTMENTS AS NECESSARY TO FACILITATE ENTER STRUCTURES IN AN OFFSET MANOR.	FACILITIES REQUIRING ADJUSTMENTS, RELOCATIONS AND/OR REPAIRS WILL BE MADE AT THE CONTRACTOR'S EXPENSE.		ription				
ANY CHAIR RAILS OR OTHER STRUCTURAL	K. THE CONTRACTOR SHALL SHEET AND SHORE ALL	CTION,	Desc				
	EXCAVATIONS AS REQUIRED TO CONTINUOUSLY SUPPORT GAS FACILITIES WITHIN THE ZONE OF INFLUENCE (AS	RODU	/ision				
INIMUM OF 6" CLEAR FROM ALL STORM	DETERMINED BY THE NATURAL ANGLE OF REPOSE OF THE SOIL).	E, REP	Re				
12" CLEAR FROM ALL WATERLINE CROSSINGS ROM ALL SANITARY SEWER CROSSINGS. DUCT	CROSSING BURIED GAS FACILITIES WITH HEAVY	RE, US					
CCOMPLISH THESE CLEAR DISTANCES BY R THE CROSSING AND SOME CONDUITS UNDER	CONSTRUCTION EQUIPMENT MAY CAUSE DAMAGE TO THE GAS FACILITIES. CONTACT THE GAS ENGINEERING DEPARTMENT FOR DETAILS ON HOW TO PROTECT THE GAS EACILITIES EROM DAMAGE						
TAIN A MINIMUM OF 4' HORIZONTAL CLEAR ARY AND STORM SEWERS.	M. THE CONTRACTOR SHALL NOT BACKFILL EXPOSED GAS	OF BB. N					
DIFIED TO EASE INSTALLATION PROVIDED ALL TION ARE PROVIDED AND MINIMUM CLEAR	FACILITIES UNTIL THE UTILITY HAS INSPECTED ITS FACILITI AND PERFORMED ANY MAINTENANCE AND/OR ADJUSTMEN THAT MAY BE REQUIRED.	ES TS Joperty	ltem				
	N. THE CONTRACTOR IS RESPONSIBLE FOR PREVENTING ANY	, SIVE PR					
M 613 LSM 50 MIX OR BE COMPACTED PER ITEM	DAMAGE TO EXISTING GAS FACILITIES. THIS INCLUDES PROTECTION OF COATINGS AND WRAPPINGS ON STEEL GA	S S		ш			
ORTS MUST BE SUBMITTED TO BCEO.	MAINS. IT ALSO INCLUDES ANY DAMAGE WHICH MAY HAVE OCCURRED TO PLASTIC GAS MAINS, SUCH AS CRIMPS OR	S THE I	z	AT			
	GOUGES.	, AND I	16	Ď,	د		
	O. WHEN CAST IRON OR SIMILAR GAS FACILITIES ARE EXPOSE OR INTERFERED WITH BY THE CONTRACTOR, REPLACEMENT		<u>ט</u>	Ъ,	25		
JCTURE	OR REINFORCEMENT BY THE UTILITY OWNER MAY BE REQUIRED AT THE CONTRACTOR'S EXPENSE. BACKFILL W	NAL SE NAL	∠	щ	비명투	0	
NHOLES ARE TO BE PROVIDED BY CINCINNATI -	CONTROL LOW STRENGTH MATERIAL WILL BE REQUIRED.	ESSIO			NSI NSI	H	S
ONTRACTOR. COORDINATE TIMING AND	P. BLASTING OR OTHER CONSTRUCTION PROCEDURES WHICH MAY TRANSMIT LOADS OR VIBRATIONS IN THE VICINITY OF	PROF	I픈	U S	ũų Ωπ⊗	۲. ۲	Ë
BE INSPECTED BY CINCINNATI BELL PERSONNEL EMENT.	GAS FACILITIES MUST BE APPROVED BY THE GAS	F BB's	ΙΨ	SI E	L N L N L		2
ND CONDUITS SHALL BE PER CINCINNATI-BELL	ALL PERTINENT INFORMATION, MUST BE SUBMITTED IN		\$	Σ		Ō	ב
ED FROM ELECTRIC BY 6" OF LSM BACKFILL OR		TRUM	 		× 2,0 ₩	ER	3
	Q. PROPOSED DEVELOPMENT PLANS AROUND AND NEAR GAS FACILITIES WITHIN PRIVATE EASEMENTS MUST BE		ပ	A	₹ND \$OF	L L	5
	REVIEW. THESE PLANS MUST BE APPROVED BEFORE ANY	(BB), A	₹		₩ E E E E E	ā	
	WORK MAY BEGIN WITHIN THE UTILITY OWNER'S EASEMEN	ECKER	Ō		л Л Л Л		
	ORDER FOR THE UTILITY PROVIDER TO PROTECT ITS FACILITIES.	BAYER BI	H	AD	3		
	S. NO PERMANENT STRUCTURES MAY BE BUILT WITHIN THE EASEMENTS.	IISHED BY		RC			
	T. CUTS AND FILLS ARE GENERALLY NOT PERMITTED WITHIN THE EASEMENTS, SOME FILLS MANY DE ALL OWER, AND WE	R FURN					
	BE REVIEWED ON AN INDIVIDUAL BASIS. ANY PERMITTED	RED O					
	THE UTILITY OWNERS TO PROPERLY MAINTAIN ITS	PREPA			-		
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	U. PERPENDICULAR UTILITY CROSSINGS OF GAS EASEMENTS ARE ACCEPTABLE, PROVIDED PROPER CLEARANCES ARE			U		Suite	
	MAIN LAINED. PARALLEL INSTALLATIONS ARE NORMALLY NO ALLOWED.	ור LECTR		5	J	Road, - 513	נ - -
	V. GAS FACILITIES SHOWN ON THIS PLAN ARE TO BE INSTALLI			Q	Ŭ	iyerue sville F 5040	>+> >
	TRENCHING ACTIVITIES WITH DUKE ENERGY		_	٥.		Tylers DH 4	-
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GRADE RING WITH 39" I.D. & 50" RECESS

OPTION	А	В	С	LBS.
OPTION 1	27	5 5/8	46	550
OPTION 2	27	10	46	625
OPTION 3	30	5 5/8	46	600
OPTION 4	30	10	46	695
OPTION 5	30	5 5/8	49	685
OPTION 6	30	10	49	760
OPTION 7	36	10	49	865

GRADE RING ADAPTOR

FITS STANDARD 39" I.D. MANHOLE FRAME AND COVER OPENING OR 6", 9" AND 12" GRAD RING CASTINGS. THIS GRADE RING ADAPTOR CASTING ACCOMMODATES A 26" I.D. FRAME AND COVER.

NOTES:

- 1. PRECAST POLYMER CONCRETE PULL BOX SHALL MEET THE REQUIREMENTS OF THE UTILITY COMPANY.
- PULL BOX & COVER SHALL BE WITHSTAND A MINIMUM DESIGN LOAD OF 22,500 LBS. DIMENSIONS SHOWN ARE NOMINAL AND CAN VARY FROM MANUFACTURER TO MANUFACTURER. 3.
- 4. ALL LOCK DOWN BOLTS AND HARDWARE SHALL BE STAINLESS STEEL, GASKETED AND VANDAL PROOF. 5. PULL BOXES SHALL MATCH THE SLOPES AND GRADES OF THE ADJOINING CONCRETE WHERE
- APPLICABLE. 6. COLOR OF TOP SHALL CLOSELY MATCH ADJOINING SURFACES WHERE APPLICABLE. 7. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS, COLOR PALLET SAMPLE AND MANUFACTURERS CERTIFICATION FOR APPROVAL

5

C4.8 NOT TO SCALE

CONDUIT PULL BOX

TYPE

CABLE

Α

24"

48"

TELEPHONE 48" 48" 24" MIN TELEPHONE

С

24" MIN

IDENTIFICATION

CABLE

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PERMANENT SEEDING (1)

Permanent seeding includes the seedbed preparation, seeding, and the establishment of perennial vegetation used to permanently stabilize soil, prevent sediment pollution, reduce runoff by promoting infiltration, and provide storm water quality benefits offered by dense vegetation. CONDITIONS WHERE PRACTICE APPLIES

- Permanent seeding should be applied to:
 - Areas or portions of construction-sites which can be brought to final grade. Applications of permanent seeding should not be delayed while construction on limited portions of the site being completed.
 - Areas on that will be regraded, but will be dormant for a year or more.

PLANNING CONSIDERATIONS

Healthy dense turf will have a dramatic long lasting effect on stormwater quality as well as promoting infiltration and reducing the amount of runoff. To establish quality vegetation, careful preparation of the seedbed, soil, even subsoil is highly encouraged.

- Soil Compaction--Stormwater quality and the amount of runoff both vary significantly with soil compaction.
- Non-compacted soils improve stormwater by promoting: * dense vegetation.
- high infiltration & lower runoff rates.
 pollutant filtration, deposition & absorption, and
 beneficial biologic activity in the soil.

Construction activity can cause highly compacted soils but also offers the opportunity to improve soil condition. The best time for improving soil condition is during the establishment of permanent vegetation. It is highly recommended that subsoilers, plows or others implements be specified as part of final seedbed preparation. Use discretion in slip-prone areas.

- <u>Minimum Soil Conditions</u>--Vegetation cannot be expected to stabilize soil that is unstable due to its texture, structure, water movement or excessively steep slope. The following minimum soil conditions are needed for the establishment and maintenance of a long-lived vegetation cover. If these conditions cannot be met, see the Standards and Specifications for Resoiling. Soils must include enough fine-grained material to hold at least a moderate amount of available moisture.
- * The soil must be free from material that is toxic or otherwise harmful to plant growth.

	Permane	ent Seeding	
Seed Mix	Seeding	g Rate	Notos:
	lb./ac.	lb./1,000 ft. ²	Notes.
	Gener	ral Use	
Creeping Red Fescue Ryegrass Kentucky Bluegrass	20-40 10-20 10-20	1/2-1 1/4-1/2 1/4-1/2	
Tall Fescue	40	1	
Dwarf Fescue	40	1	
	Steep Banks	or Cut Slopes	
Tall Fescue	40	1	
Crown Vetch Tall Fescue	10 20	1/4 1/2	Do not seed later than August
Flat Pea Tall Fescue	20 20	1/2 1/2	Do not seed later than August
	Road Ditcl	nes and Swales	3
Tall Fescue	40	1	
Dwarf Fescue Kentucky Bluegrass	90 5	2 1/4	
	La	awns	
Perennial Ryegrass Kentucky Bluegrass	60 60	1 1/2 1 1/2	
Creeping Red Fescue Kentucky Bluegrass	60 60	1 1/2 1 1/2	For shaded areas
Note: Other approved seed sp	becies may be subst	ituted.	

Maintenance for Perma Fertilization and Mowin	anent Seedin g	igs			
Mixture	Formula	lb./ac.	lb./1,000 sq. ft.	Time	Mowing
Creeping Red Fescue Ryegrass Kentucky Bluegrass	10-10-10	500	12		Not closer than 3"
Tall Fescue	10-10-10	500	12	Fall, yearly or as needed	Not closer than 4"
Dwarf Fescue	10-10-10	500	12		Not closer than 2"
Crown Vetch Fescue	0-20-20	400	10	Spring, yearly following establishment	Do not mow
Flat Pea Fescue	0-20-20	400	10	and every 4-7 yrs. thereafter	Do not mow

SITE PREPARATION

- A subsoiler, plow or other implement shall be used to reduce soil compaction and allow maximum infiltration. (Maximizing infiltration will help control both runoff rate and water quality.) Subsoiling should be done when the soil moisture is low enough to allow the soil to crack or fracture. Subsoiling shall not be done on slip-prone areas where soil preparation should be limited to what is necessary for establishing
- The site shall be graded as needed to permit the use of conventional equipment for seedbed preparation
- Resoil shall be applied where needed to establish vegetation.

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

SEEDBED PREPARATION

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- Lime--Agricultural group limestone shall be applied to acid soil as recommended by a soil test. In lieu of a soil test, lime shall be applied at the rate of 100 lb./1,000 sq. ft. or 2 tons/ac.
- 2. <u>Fertilizer</u>--Fertilizer shall be applied as recommended by a soil test. In lieu of a soil test, fertilizer shall be applied at a rate of 12 lb./1,000 sq. ft. or 500 lb./ac. of 10-10-10- or 12-12-12 analysis.
- The lime and fertilizer shall be worked into the soil with a disk harrow, spring-tooth harrow, or other suitable field implement to a depth of 3 in. On sloping land the soil shall be worked on the contour.

SEEDING DATES AND SOIL CONDITIONS

- Seeding should be done March 1 to May 31 or August 1 to September 30. These seeding dates are ideal but, with the use of additional mulch and irrigation, seedings may be made any time throughout the growing season. Tillage/seedbed preparation should be done when the soil is dry enough to crumble and not form ribbons when compressed by hand. For winter seeding, see the following section on dormant seeding.
- MULCHING
- Mulch material shall be applied immediately after seeding. Seedings made during optimum seeding dates and with favorable soil conditions and on very flat areas may not need mulch to achieve adequate stabilization. Dormant seeding shall be mulched.
- 2. Materials
- Straw--If straw is used it shall be unrotted small-grain straw applied at the rate of 2 tons/ac. or 90 lb./1,000 sq. ft. (two to three bales). The mulch shall be spread uniformly by hand or mechanically so the soil surface is covered. For uniform distribution of hand-spread mulch, divide area into approximately 1,000 sq. ft. sections and spread two 45-lb. bales of straw in each section.
- Hydroseeders--If wood cellulose fiber is used, it shall be used at 2,000 lb./ac. or 46 lb./1,000 sq. ft.
- Other--Other acceptable mulches include mulch mattings applied according to manufacturer's recommendations or wood chips applied at 6 tons/ac.
- 3. Straw Mulch Anchoring Methods
- Straw mulch shall be anchored immediately to minimize loss by wind or water.
- Mechanical--A disk, crimper, or similar type tool shall be set straight to punch or anchor the mulch material into the soil. Straw mechanically anchored shall not be finely chopped by, generally, be left longer than 6 in.

TEMPORARY SEEDING (1

Temporary seeding provides erosion control on areas in between construction operations. Grasses which are quick growing are seeded and usually mulched to provide prompt, temporary soil stabilization. It effectively minimizes the area of a construction-site prone to erosion and should be used everywhere the sequence of construction operations allows vegetation to be established.

- CONDITIONS WHERE PRACTICE APPLIES
- Temporary seeding should be applied on exposed soil where additional work (grading,etc.) is not scheduled for more than 14 days. Permanent seeding should be applied if the areas will be idle for more than a year. PLANNING CONSIDERATIONS

This practice has the potential to drastically reduce the amount of sediment eroded from a construction-site.
Control efficiencies greater than 90% will be achieved with proper applications of temporary seeding.
Because practices used to trap sediment are usually much less effective, temporary seeding is to be used
even on areas where runoff is treated by sediment trapping practices. Because temporary seeding is highly
effective and practical on construction-sites, its liberal use is highly recommended.

Seeding Dates	Species	Lb./1,000 ft. ²	Per Acre
March 1 to August 15	Oats	3	4 bushel
	Tall Fescue	1	40 lb.
	Annual Ryegrass	1	40 lb.
	Perennial Ryegrass	1	40 lb.
	Tall Fescue	1	40 lb.
	Annual Ryegrass	1	40 lb.
August 16 to November 1	Rye	3	2 bushel
	Tall Fescue	1	40 lb.
	Annual Ryegrass	1	40 lb.
	Wheat	3	2 bushel
	Tall Fescue	1	40 lb.
	Annual Ryegrass	1	40 lb.
	Perennial Ryegrass	1	40 lb.
	Tall Fescue	1	40 lb.
	Annual Ryegrass	1	40 lb.
November 1 to Spring Seeding	Use mulch only, sodd	ing practices or dormant	seeding.

- Note: Other approved seed species may be substituted.
- 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.
- Temporary seed shall be applied between construction operations on soil that will not be graded or reworked for 14 days or more. These idle areas should be seeded as soon as possible after grading or shall be seeded within 7 days. Several applications of temporary seeing are necessary on typical construction projects.
- The seedbed should be pulverized and loose to ensure the success of establishing vegetation. However, temporary seeding shall not be postponed if ideal seedbed preparation is not possible.
- I. Soil Amendments--Applications of temporary vegetation shall establish adequate stands of vegetation which may require the use of soil amendments. Soil tests should be taken on the site to predict the need for lime and fertilizer.
- . Seeding Method--Seed shall be applied uniformly with a cyclone seeder, 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.

MULCHING TEMPORARY SEEDING

. Applications of temporary seeding shall include mulch which shall be applied during or	
nmediately after seeding. Seedings made during optimum seeding dates and with favorable	soil
onditions and on very flat areas may not need mulch to achieve adequate stabilization.	

- 2. Materials
 - Straw--If straw is used, it shall be unrotted small-grain straw applied at the rate of 2 tons/ac. or 90 lb./1,000 sq. ft. (two to three bales). The mulch shall be spread uniformly by hand or mechanically so the soil surface is covered. For uniform distribution of hand-spread mulch, divide area into approximately 1,000-sq.-ft. sections and spread two 45-lb. bales of straw in each section.
- Hydroseeders--If wood cellulose fiber is used, it shall be used at 2,000 lb/ac. or 46 lb./1,000 sq. ft.
- * Other--Other acceptance mulches include mulch mattings applied according to manufacturer's recommendations or wood chips applied at 6 tons/ac.
- 3. Straw mulch shall be anchored immediately to minimize loss by wind or water. Anchoring Methods:
 - Mechanical--A disk, crimper, or similar type tool shall be set straight to punch or anchor the mulch material into the soil. Straw mechanically anchored shall not be finely chopped but, generally, be left longer than 6 in.
 - Mulch Nettings--Nettings shall be used according to the manufacturer's recommendations. Netting may be necessary to hold mulch in place in areas
 - of concentration runoff and on critical slopes. Asphalt Emulsion--Asphalt shall be applied as recommended by the manufacturer or at the rate of 160 gal./ac.
 - Synthetic Binders--Synthetic binders such as Acrylic DLR (Agri-Tac), DCA-70, Petroset, Terra Tack or equal may be used at rates recommended by the manufacturer.
 - Wood-Cellulose Fiber--Wood-cellulose fiber binder shall be applied at a net dry weight of 750 lb./ac. The wood-cellulose fiber shall be mixed with water and the mixture shall contain a maximum of 50 lb./100 gal.

SOIL PILE

- LOCATED AWAY FROM ANY DOWNSLOPE STREET, DRIVEWAY, STREAM, LAKE, WETLAND, DITCH OR DRAINAGEWAY.
- TEMPORARY SEED SUCH AS ANNUAL RYE IS RECOMMENDED FOR TOPSOIL PILES.
- SURROUND WITH STRAW BALES OR SILT FENCE.

MAINTENANCE

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- Permanent seeding shall not be considered established for at least 1 full yr. from the time of planting. Seeded areas shall be inspected for failure and vegetation conditions, it may be necessary to irrigate, fertilize, overseed, or reestablish plantings in order to provider permanent vegetation for adequate erosion control.
- 2. Maintenance fertilization rates shall be established by soil test recommendations or by using the rates shown in the following table.

DORMANT SEEDINGS

- Seeding shall not be planted from October 1 through November 20. During this
 period the seeds are likely to germinate but probably will not be able to survive the
 winter.
- 2. The following methods may be used for "Dormant Seeding":
- * From October 1 through November 20, prepare the seedbed, add the required amounts of lime and fertilizer, then mulch and anchor. After November 20, and before March 15, broadcast the selected seed mixture. Increase the seeding rates by 50% for this type of seeding.
- * From November 20 through March 15, when soil conditions permit, prepare the seedbed, lime and fertilize, apply the selected seed mixture, mulch and anchor. Increase the seeding rates by 50% for this type of seeding.
- * Apply seed uniformly with a cyclone seeder, drill, cultipacker seeder, or hydro-seeder (slurry may include seed and fertilizer) on a firm, moist seedbed.
 * Where feasible, except when a cultipacker type seeder is used, the seedbed should be firmed following seeding operations with a cultipacker, roller, or light drag. On
- sloping land, seeding operations should be on the contour where feasible.
 Mulch Nettings--Nettings shall be used according to the manufacturer's recommendations. Netting may be necessary to hold mulch in place in areas of
- concentrated runoff and on critical slopes.
 * Asphalt Emulsion--Asphalt shall be applied as recommended by the manufacturer or
- at the rate of 160 gal./ac.

 Synthetic Binders--Synthetic binders such as Acrylic DLR (Agri-Tac), DAC-70,
 Petroset, Terra Tack or equal may be used at rates recommended by the manufacturer.
- Wood Cellulose Fiber--Wood cellulose fiber binder shall be applied at a net dry weight of 750 lb./ac. The wood cellulose fiber shall be mixed with water and the mixture shall contain a maximum of 50 lb./100 gal. of wood cellulose fiber.

germination and plant growth.2. Excessive irrigation rates shall be avoided and irrigation monitored to prevent erosion

SWPPP GENERAL NOTES

REMOVED

and damage from runoff.

 EROSION CONTROL MEASURES SHALL BE IMPLEMENTED PRIOR TO CONSTRUCTION AND MAINTAINED DURING CONSTRUCTION.
 BEST MANAGEMENT PRACTICES (BMPs) SHOWN ON PLANS SHALL BE REVISED OR IMPLEMENTED AS REQUIRED. CONTRACTOR SHALL MONITOR CONSTRUCTION BMPs AND PROVIDE ADDITIONAL BMPs AS REQUIRED TO PREVENT SEDIMENT RUNOFF FROM CONSTRUCTION SITE ONTO PAVEMENT AND NON-WORK AREAS.
 ALL MUD OR DEBRIS TRACKED ON EXISTING STREETS SHALL BE CLEANED AT THE END OF EACH DAY OR AS DIRECTED BY BUTLER COUNTY OR THE OWNER. PERIODIC STREET SWEEPING MAY BE REQUIRED.
 IN ADDITION TO ANY TEMPORARY EROSION, MID AND DEBRIS CONTROL DETAILS AND NOTES SHOWN THE ON THE PLANS, THE CONTRACTOR SHOULD PLACE TEMPORARY OR PERMANENT SEEDING, MULCHING AND /OR MULCH NETTING OR ANY OTHER GENERALLY ACCEPTED METHODS TO PREVENT EROSION, MUD, AND DEBRIS FROM BEING DEPOSITED ON OTHER PROPERTY, ON NEWLY CONTRACTOR SHOULD CONTINUALLY MONITOR THE CONSTRUCTION NEW SEWERS WITHIN THE DEVELOPMENT. THE CONTRACTOR SHOULD CONTINUALLY MONITOR THE CONSTRUCTION PROGRESS AND MAKE ANY NECESSARY TEMPORARY ADJUSTMENTS TO MAINTAIN THIS CONTROL.
 AFTER THE VEGETATION HAS BECOME WELL ESTABLISHED, TEMPORARY EROSION AND SEDIMENT CONTROLS CAN BE greater than 1/2 inch of rainfall within a 24-hour duration using the enclosed In Inspections can be tracked using the enclosed Inspection Log. These shall be throughout the development process and kept on file for three years per OEP/ Erosion prevention and sediment control (EP&SC) measures shall be observe operation. Discharge locations shall be inspected to determine effectiveness of preventing significant impacts to the receiving waters. Where practices require maintenance, it must be accomplished within three days of the inspection or a conditions allow. Repairs to sediment ponds shall be completed within 10 day conditions allow. Most of these BMP's are easy to implement with a little bit of long way toward keeping your site clean and organized if they are properly ins Please be sure to inform all parties on site how these BMPs affect their operation particularly those that will be working near a stream.

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		2. INSPECT WEERLY AND AS DIRECTED IN THE STORMWATER POLLUTION PREVENTION PLAN, REPAIR/REPLACE AS NEEDED 3. REMOVE COLLECTED CONCRETE WHEN THE APPEARS 1/3 FULL	VE SO #					
		4. DISPOSE OF INORGANIC MATERIAL PROPERLY.						
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D TO PREVENT SURFACE	E WATER FROM	MASS EARTHWORK, UTILITY INSTALLATION, CURB & PAVEMENT CONSTRUCTION AND BUILDING CONSTRUCTION FOR MIXED-USE DEVELOPMENT						
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LES AND PREVENT OFF-S	AVE THE	XfB2-Xenia silt loam, bedrock substratum, 2 to 6 percent slopes, moderately eroded PRIOR LAND USE: MEADOW						
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SEDIMENT TRAPS

1.WORK SHALL CONSIST OF THE INSTALLATION, MAINTENANCE AND REMOVAL OF ALL SEDIMENT TRAPS AT THE LOCATIONS DESIGNATED ON THE DRAWINGS.

2.SEDIMENT TRAPS SHALL BE CONSTRUCTED TO THE DIMENSIONS SPECIFIED ON THE DRAWINGS AND OPERATIONAL PRIOR TO UPSLOPE LAND DISTURBANCE. 3. THE AREA BENEATH THE EMBANKMENT SHALL BE CLEARED, GRUBBED AND STRIPPED OF VEGETATION TO A MINIMUM DEPTH OF SIX (6) INCHES. THE POOL SHALL BE CLEARED AS NEEDED TO FACILITATE SEDIMENT

CLEANOUT. 4.FILL USED FOR THE EMBANKMENT SHALL BE EVALUATED TO ASSURE ITS SUITABILITY AND IT MUST BE FREE OF ROOTS OR OTHER WOODY VEGETATION, LARGE ROCKS, ORGANICS OR OTHER OBJECTIONABLE MATERIALS. FILL MATERIAL SHALL BE PLACED IN SIX (6) INCH LIFTS AND SHALL BE COMPACTED BY TRAVERSING WITH A SHEEPSFOOT OR OTHER APPROVED COMPACTION EQUIPMENT. FILL HEIGHT SHALL BE INCREASED FIVE (5) PERCENT TO ALLOW FOR STRUCTURE/FOUNDATION SETTLEMENT. CONSTRUCTION SHALL NOT BE PERMITTED IF EITHER THE EARTHFILL OR COMPACTION SURFACE IS FROZEN. 5.THE MAXIMUM HEIGHT OF EMBANKMENT SHALL BE FIVE (5) FEET. ALL CUT AND FILL SLOPES SHALL BE 2:1 (I-1:V)

OR FLATTER. 6.A MINIMUM STORAGE VOLUME BELOW THE CREST OF THE OUTLET OF 67 YD3. FOR EVERY ACRE OF CONTRIBUTING DRAINAGE AREA SHALL BE ACHIEVED AT EACH LOCATION NOTED ON THE DRAWINGS WITH ADDITIONAL SEDIMENT STORAGE VOLUME PROVIDED BELOW THIS ELEVATION. 7. TEMPORARY SEEDING SHALL BE ESTABLISHED AND MAINTAINED OVER THE USEFUL LIFE OF THE PRACTICE.

8. THE OUTLET FOR THE SEDIMENT TRAP STRUCTURE SHALL BE CONSTRUCTED TO THE DIMENSIONS SHOWN ON THE DRAWINGS. 9.THE OUTLET SHALL BE CONSTRUCTED USING THE MATERIALS SPECIFIED ON THE DRAWINGS. WHERE GEOTEXTILE IS USED, ALL OVERLAPS SHALL BE A MINIMUM OF TWO (2) FEET OR AS SPECIFIED BY THE

MANUFACTURER, WHICHEVER IS GREATER. ALL OVERLAPS SHALL BE MADE WITH THE UPPER MOST LAYER PLACED LAST. GEOTEXTILE SHALL BE KEYED IN AT LEAST 6" ON THE UPSTREAM SIDE OF THE OUTLET. GEOTEXTILE SHALL MEET THE MINIMUM REQUIREMENTS OF ODOT CONSTRUCTION AND MATERIAL SPECIFICATION 712.09, GEOTEXTILE FABRIC TYPE B.

10.WARNING SIGNS AND SAFETY FENCE SHALL BE PLACED AROUND THE TRAPS AND MAINTAINED OVER THE LIFE OF THE PRACTICE. 11.AFTER ALL SEDIMENT-PRODUCING AREAS HAVE BEEN PERMANENTLY STABILIZED, THE STRUCTURE AND ALL

ASSOCIATED SEDIMENT SHALL BE REMOVED. STABILE EARTH MATERIALS SHALL BE PLACED IN THE SEDIMENT TRAP AREA AND COMPACTED. THE AREA SHALL BE GRADED TO BLEND IN WITH ADJOINING LAND SURFACES AND HAVE POSITIVE DRAINAGE. THE AREA SHALL BE IMMEDIATELY SEEDED.

ROCK CHECK DAM CROSS SECTION OSITIVE SLOPE POSITIVE SLOPE 6"MIN 209Ur 3'MAX. LOW CENTER SECTION- MUST CAUSE FLOW OVER, NOT AROUND, CHECK DAM PROFILE 4"-8"ROCk THE CHECK DAM SHALL BE CONSTRUCTED OF 4-8 INCH DIAMETER STONE, PLACED SO THAT IT COMPLETELY COVERS THE WIDTH OF THE CHANNEL. O.D.O.T. TYPE D STONE IS ACCEPTABLE, BUT SHOULD UNDERLAIN WITH A 8. GRAVEL FILTER CONSISTING OF O.D.O.T. NO. 3 OR 4 OR SUITABLE FILTER FABRIC. FRAME 2. MAXIMUM HEIGHT OF CHECK DAM SHALL NOT EXCEED 3.0 FEET. 3. THE MIDPOINT OF THE ROCK DAM SHALL BE A MINIMUM OF 6 INCHES LOWER THAN THE SIDES IN ORDER TO DIRECT ACROSS THE CENTER AND AWAY FROM THE CHANNEL SIDES. 4. THE BASE OF THE CHECK DAM SHALL BE ENTRENCHED APPROXIMATELY 6 INCHES. WASTE FACILITY. 5. SPACING OF CHECK DAMS SHALL BE IN A MANNER SUCH THAT THE TOE OF THE UPSTREAM DAM IS AT THE SAME ELEVATION AS THE TOP OF THE DOWNSTREAM DAM. 6. A SPLASH APRON SHALL BE CONSTRUCTED WHERE CHECK DAMS ARE EXPECTED TO BE IN USE FOR AN EXTENDED PERIOD OF TIME, A STONE APRON SHALL BE CONSTRUCTED FRAME. IMMEDIATELY DOWNSTREAM OF THE CHECK DAM TO PREVENT FLOWS FROM UNDERCUTTING THE STRUCTURE. THE APRON SHOULD BE 6 INCH THICK AND ITS LENGTH TWO TIMES THE HEIGHT OF THE DAM. STONE PLACEMENT SHALL BE PERFORMED EITHER BY HAND OR MECHANICALLY AS LONG AS THE CENTER OF CHECK DAM IS LOWER THAN THE SIDES AND EXTENDS ACROSS ENTIRE CHANNEL. 8. SIDE SLOPES SHALL BE A MINIMUM OF 2:1.

CHECK DAM SPACING				
DAM HEIGHT (FT.)	CHANNEL SLOPE			
	< 5%	5-10%	10-15%	15-20%
1	65 FT.	30 FT.	20 FT.	15 FT.
2	130 FT.	65 FT.	40 FT.	30 FT.
3	200 FT.	100 FT.	65 FT.	50 FT.

