Permit # BLD-CT[8-035]7

BUTLER COUNTY BLDG. DEPT.

7280 UNION CENTRE BLVD. WEST CHESTER TOWNSHIP, **BUTLER COUNTY, OHIO 45014**

SITE INFORMATION

EXISTING USE: EXISTING ZONING

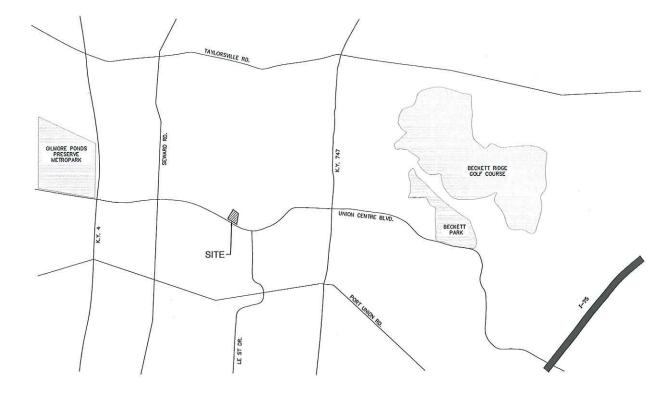
UNDEVELOPED OFFICE/INDUSTRIAL A - AGRICULTURAL VACANT LAND

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217,756.44 SF (4.9990 AC.)

51 (+39 FUTURE SPACES)



VICINITY MAP N.T.S.

CONTACTS

TELECOMMUNICATIONS

CINCINNATI BELL BILL SAVITZ (513) 397-9848

FIBREOPTICS

CINCINNATI BELL (513) 397-9848

ELECTRIC

DUKE ENERGY CINCINNATI, OH 45202 (513) 287-4718

GAS

DUKE ENERGY 139 E 4TH STREET HEATHER STAMPER

WATER

BUTLER COUNTY WATER AND SEWER HAMILTON OH 45011 (513) 785-5134

SANITARY

BUTLER COUNTY WATER AND SEWER HAMILTON, OH 45011 CONSTANCE KEPNER (513) 785-5134

STORM

BUTLER COUNTY ENGINEER'S OFFICE 1921 FAIRGROVE AVENUE TERESA BARNES

ZONING

WEST CHESTER TOWNSHIP 9577 BECKETT ROAD SUITE 100 AARON WIEGAND

OWNER

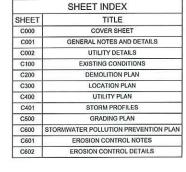
KRM DEVELOPMENT CORPORATION 165-J LOG CANOE CIRCLE STEVENSVILLE, MD 21666 (410) 604-2622

CONTRACTOR

SCHUMACHER CONSTRUCTION MANAGEMENT, INC. 6355 CENTRE PARK DR. WEST CHESTER, OH 45069 (513) 777-9800

ENGINEER/SURVEYOR

THE KLEINGERS GROUP 6305 CENTRE PARK DR. DAVID WRIGHT







UTILITY NOTE

ALL UTILITIES ON THESE PLANS ARE APPROXIMATE. INDIVIDUAL SERVICE LINES ARE NOT SHOWN. THE CONTRACTOR OR SUBCONTRACTOR SHALL NOTIFY THE UTILITY PROTECTION CENTER OHIO 811 (TOLL FREE PHONE NO. 1-800-362-2761) TWO BUSINESS DAYS IN ADVANCE OF ANY CONSTRUCTION ON THIS PROJECT. THIS NUMBER WAS ESTABLISHED TO PROVIDE ACCURATE LOCATIONS OF EXISTING BELOW GROUND UTILITIES (I.E. CABLES, ELECTRIC WIRES, GAS & WATER LINES). WHEN CONTACTING THE OHIO 811 CALL CENTER, PLEASE STATE THE WORK TO BE DONE IS FOR A PROPOSED MSD SEWER OR DRAINAGE FACILITY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR BECOMING FAMILIAR WITH ALL UTILITY REQUIREMENTS SET FORTH ON THE PLANS AND IN THE TECHNICAL SPECIFICATIONS & SPECIAL PROVISIONS.





DIXON BAYCO 7280 UNION CENTRE BLVD.

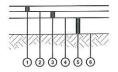
SECTION 10 TOWN 2 RANGE 2 BTM WEST CHESTER TOWNSH BUTLER COUNTY, OH

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COVER SHEET

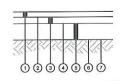
(1)

- ALL PLANS & CONSTRUCTION SHALL BE IN ACCORDANCE WITH CURRENT "RULES AND REGULATIONS" OF WEST CHESTER TOWNSHIP, BUTLER COUNTY, AND APPLICABLE OHIO DEPARTMENT OF
- TRACTOR SHALL OBTAIN ALL NECESSARY PERMITS FOR CONSTRUCTION ACTIVITIES IN ORDANCE WITH LOCAL, STATE, & FEDERAL REGULATIONS.
- ITEM NUMBERS REFER TO THE OHIO DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND MATERIAL SPECIFICATIONS, AND ALL CONSTRUCTION WORK SHALL BE DONE ACCORDING TO SAID SPECIFICATIONS AND IN ACCORDINGE WITH APPLICABLE STANDARDS OF WEST CHESTER TOWNSHIP AND BUTLER COUNTY. WHEN IN CONFLICT, WEST CHESTER TOWNSHIP REQUIREMENTS SHALL PREVAIL
- CONTRACTOR TO REMOVE TREES AND CLEAR AREAS AS NECESSARY TO PERFORM ALL SITE WORK INCLUDING GRADING AND LITILITY WORK.
- PROTECTION OF EASTING TREES AND VEGETATION! PROTECT EXISTING TREES AND OTHER VEGETATION INDICATED TO HEADMIN IF PLACE AGAINST LINREGESSARY CUTTING REBRAINS OR SKINNING OR FORTON, SIGNINING OR REMAINS OF BARK, SMOTHERING OF TREES BY STOCKPLING CONSTRUCTION MATERIALS, SIGNING OR FOR STOCKPLING CONSTRUCTION MATERIALS, OF RECAVALIST DATERIALS, SWITHIN DRIP LINE, EXCESS FOOT OR VEHICLIAN TREES, OR PARKING OF VEHICLES WITHIN DRIP LINE, EXCESS FOOT OR VEHICLIAN TREES, OR PARKING OF VEHICLES WITHIN DRIP LINE, EXCESS FOOT OR VEHICLIAN TREES, AND VEGETATION TO BE LEFT STATIONION.
- ALL ELEVATIONS SHOWN ARE FINISHED GRADE ELEVATIONS, UNLESS OTHERWISE NOTED
- SITE BUILDING PAD EXCAVATION AND CONSTRUCTION TO BE PER SPECIFICATIONS. BUILDING PAD PREPARATION SHALL BEGIN BY CLEARING & STRIPPING UNSUITABLE MATERIAL FROM PAD SITE. THEN PLACE & COMPACT BACKFILL MATERIAL AT GEOTCHNICAL ENGINEERS AND ARCHITECTS RECOMMENDATIONS. ALL BACKFILL MATERIAL MUST BE ACCEPTABLE TO THE GEOTECHNICAL ENGINEER.
- ALL FILL UNDER PAVEMENT SHALL BE COMPACTED TO THE GEOTECHNICAL ENGINEERS RECOMMENDATIONS AND THE SPECIFICATIONS.
- 10. COMPACTED FILLS ARE TO BE MADE TO A MINIMUM OF THREE FEET ABOVE THE CROWN OF ANY PROPOSED SEVER PRIOR TO CUITING OF TRENCHES FOR PLACEMENT OF SAID SEVERS. ALL FILLS SHALL BE CONTROLLED, COMPACTED, AND SHOPECTED BY AN APPROVED TESTING LABORATORY OR AN INSPECTIOR FROM THE APPROPRIATE GOVERNMENTAL AGENCY.
- THE CONTRACTOR IS RESPONSIBLE FOR BALANCING THE SITE EARTHWORK BY IMPORTING OR EXPORTING AS NECESSARY TO ACHIEVE DESIGN GRADES AND SPECIFICATIONS.
- ADJUST ALL EXISTING CASTINGS AND CLEANOUTS WITHIN PROJECT AREA TO GRADE AS REQUIRED.
- CONTRACTOR SHALL IMPLEMENT ALL SOIL AND EROSION CONTROL, PRACTICES REQUIRED BY WES
 CHESTER TOWNSHIP, BUTLER COUNTY, AND THE OHIO EPA.
- 14. ALL GROUND SURFACE AREAS THAT HAVE BEEN EXPOSED OR LEFT BARE AS A RESULT OF CONSTRUCTION AND ARE TO FIRM GRADE AND ARE TO REMAIN SO, SHALL BE SEEDED AND MULCHED AS SOON AS PRACTICAL, IN ACCORDANCE WITH DOOT TIEM 659.
- ALL PROPOSED STORM SEWERS, SURFACE OR OTHER DRAINAGE FACILITIES ARE TO BE PRIVATE AND MAINTAINED BY THE OWNER.
- 16. ALL STORM STRUCTURES ARE ODOT TYPES UNLESS OTHERWISE INDICATED
- STORM SEWER PIPE LABELED 'STM' SHALL BE ONE OF THE FOLLOWING: PVC SDR-35, PVC PROFILE PIPE PER ODOT ITEM 107-12, HIGH DEINSITY POLYETHMENE PER ODOT ITEM 107-33, ALUMNIZED CORRUGATED BUFFLA, DOOT ITEM 107-01, 707 02, OR REINFORCED CONKORETE PIPE, ODOT ITEM 108-02 CLASS N. STORM SEWER PIPE LABELED 'RCP' SHALL BE REINFORCED CONKORET PIPE, ODOT ITEM 7080 2CLASS N. ALL STORMIS TO BE INSTALLED PER ODOT ITEM 511, ALL STORMIS TO BE INSTALLED PER ODOT ITEM 511, ALL STORM PIPE USED MUST HAVE A MANUFACTURER SPECIFIED FRICTION FACTOR OF 0.015 (m-0.015) OR LESS.
- ALL WATERMANI CROSSINGS SHALL MANTANIA VERTICAL SEPARATION OF IR MANAUM. SANTARY SEVERE SHALL BLOCATED A MIRAMO OF IR BEATOW WATERMAN AT ALL CROSSINGS. WATERMAN SHALL BE LOCATED A MINIMUM OF 10 HORIZONTALLY FROM ANY SANTARY SEVER. ALL MASQUEEMENTS SHALL BET KARE HOMO JUTISOO OF SEWER PREF OT THE OUTSIDE OF WATERMAN PIPE. ONE FULL LENGTH OF WATERMAN PIPE SHALL BE LOCATED AT ALL CROSSINGS TO ENABLE BOTH JOINTS TO BE LOCATED AS FAR FROM SEVER AS POSSIBLE. ALL WATER SHALL HAVE AMMINUM OF A **
- 19. WATERLINE SHALL BE DUCTILE IRON PIPE CLASS 52, MINIMUM 250 PSI.
- ALL CATCH BASINS IN THE PAVEMENT OR CURB ARE TO HAVE 4" PERFORATED UNDERDRAINS EXTENDING 12 LF FROM THE CATCH BASIN IN EACH UPHILL DIRECTION.
- . ANY FIELD TILE CUT IN EXCAVATION WHICH DRAINS AN OFFSITE AREA MUST BE TIED INTO THE STORM DRAINAGE SYSTEM.
- FOR EXACT LOCATION OF DOWNSPOUTS AND/OR ROOF DRAINS, COORDINATE WITH CONSTRUCTION MANAGER. ALL ROOF DRAINS ARE TO BE 8" UNLESS OTHERWISE NOTED.
- ALL CATCH BASINS WITH DEPTH GREATER THAN 4.5 SHALL BE PROVIDED WITH DUCTILE IRON, CAST ALUMINUM, OR STEEL REINFORCED PLASTIC STEPS. STEPS SHALL MEET THE REQUIREMENTS OF OR
- SANITARY SEWER SHALL BE SDR-35 OR APPROVED EQUAL AND CONFORM TO THE RULES AND REGULATIONS OF WEST CHESTER TOWNING MURSIPCITON AND ORIGINATY, PIPE MUST MEET MIMMUM SLOPE REQUIREMENTS OF THE GOVERNOW MURSIPCITON AND ORIGINAL SANITARY SEWER GHALL BE INSTALLED AT A MINIMUM DEPTH OF FOUR FEET (4) DILES OTHERWISE NOTED. A MINIMUM OF 10 CLEARANCE SHALL BE MANTAINED AT ALL WARFEILINE CROSSINGS. SANITARY SERVICE JOURTS ALL
- SANITARY SEWER IS TO BE BEDDED WITH CLEAN GRAINLAR MATERIAL-AGGREGATES NOT TO BE LARGER THAN 3.4" AND NOT SMALLER THAN NO. 8 SIEVE, FREE OF SILT AND FINES, AASHTO MA3 SIZE \$67, 70 R.B. BEDDING TO BE MINIMUM OF 6" BELOW & 12" ABOVE THE PIPE.
- ALL MANHOLES WITH A DEPTH GREATER THAN 4" SHALL BE PROVIDED WITH DUCTILE IRON, CAST ALUMINUM OR STEEL REINFORCED PLASTIC STEPS. STEPS SHALL MEET THE REQUIREMENTS OF ODOT ITEM 611.
- 27. DISTANCES SHOWN FOR BOTH SANITARY AND STORM SEWER PIPES ARE MEASURED FROM CENTER OF STRUCTURE. CONTRACTOR RESPONSIBLE FOR ACTUAL FIELD CUT LENGTH. COORDINATES FOR STORM A SANITARY STRUCTURES AND ESHOWN TO THE CENTER OF STRUCTURE.
- ROOF DRAINS, FOUNDATION DRAINS AND ALL OTHER CLEAR WATER CONNECTIONS TO THE SANITARY SEWER SYSTEMS ARE PROHIBITED.
- THE CONTRACTOR SHALL VERIFY LOCATION AND ELEVATION OF ALL EXISTING UTILITIES PRIOR TO THE BEGINNING OF CONSTRUCTION OR EARTH MOVING OPERATIONS.
- 30. FORTY-EIGHT HOURS BEFORE DIGGING IS TO COMMENCE, THE CONTRACTOR SHALL NOTIFY THE FOLLOWING AGENCIES: THE OHIO UTILITY PROTECTION SERVICES (OUPS), AND ALL OTHER AGENCIES WHICH MAY HAVE UNDERGOAND UTILITIES INVOLVING THIS PROJECT AND ARE NON-MEMBERS OF OHIO UNDERGROUND PROTECTION, INC.
- CONTRACTORS SHALL PICK UP ALL UTILITIES, WITH THE EXCEPTION OF DOWNSPOUTS, 5' OUTSIDE BUILDING WALL. COORDINATE WITH CONSTRUCTION MANAGER.
- 32. CONTRACTOR TO REMOVE & REPLACE PAVEMENT AS SPECIFIED.
- 34. ALL PARKING SPACES ARE TO BE 9' X 19', UNLESS OTHERWISE NOTED.
- 35. SITE SIGNAGE AND STRIPING SHALL BE IN ACCORDANCE WITH THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.
- 36. CONCRETE WALKS SHALL BE 5" THICK WITH CONTROL JOINTS EQUALLY SPACED AT NO MORE THAN 6" ON CENTER. VERIFY WITH LANDSCAPE PLAN WHERE SPECIAL JOINTING IS REQUIRED PRIOR TO CONSTRUCTING CONCRETE WALKS. WHEN IN CONFLICT, LANDSCAPE PLAN PREVAILS.
- TRUNCATED DOMES SHALL BE LOCATED AT ALL WALK EDGES WHERE PEDESTRIANS WILL CROSS THE PATH OF TRAFFIC AND AS INDICATED ON PLANS.



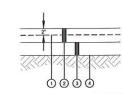
- 1 1/2" ODOT ITEM 441 ASPHALT CONCRETE SURFACE COURSE, TYPE 1, PG64-22
- ODOT ITEM 407 TACK COAT, APPLY IF TIME BETWEEN ASPHALT LIFTS EXCEEDS 30 DAYS
- 3 2' ODOT ITEM 441 ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, PG64-22
- 6° ODOT ITEM 304 AGGREGATE BASE
- SUBGRADE COMPACTION, REFERENCE ODOT ITEM
 204, EARTHWORK SPECIFICATION 312000 AND
 SOILS REPORT

STANDARD DUTY ASPHALT PAVEMENT DETAIL
N.T.S.



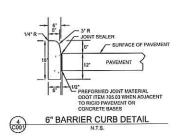
- 2° ODOT ITEM 441 ASPHALT CONCRETE SURFACE COURSE, TYPE 1, PG64-22
- ODOT ITEM 407 TACK COAT, APPLY IF TIME BETWEEN ASPHALT LIFTS EXCEEDS 30 DAYS
- 4.5° ODOT ITEM 441 ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, PG64-22
- 6° ODOT ITEM 304 AGGREGATE BASE WOVEN GEOTEXTILE FABRIC, ODOT ITEM 712.09
 TYPE 0
- SUBGRADE COMPACTION, REFERENCE ODOT ITEM
 204, EARTHWORK SPECIFICATION 312009 AND
 SOILS REPORT

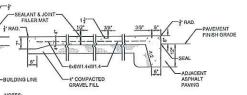




- 6X 6 W4 X W4 WELDED WIRE REINFORCEMENT 8° ODOT ITEM 452 NONREINFORCED PORTLAND CEMENT CONCRETE PAVEMENT 6° ODOT ITEM 304 AGGREGATE BASE
- 4 SUBGRADE COMPACTION, REFERENCE ODOT ITEM
 204, EARTHWORK SPECIFICATION 312000 AND
 SOILS REPORT

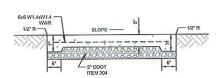
HEAVY DUTY 3 CONCRETE PAVEMENT DETAIL
N.T.S.





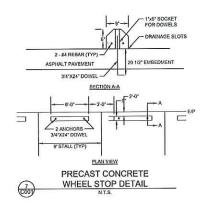
- INSTALL EXPANSION JOINTS AT 39" OC MAXIMUM AND WHERE SLAB ABUTS STRUCTURES, WHERE NEW WALK ABUTS ADJOINING WALK, SAWCUT EXSTRUG WALK TO REAREST JOINT AND INSTALL EXPANSION JOINT, EXPANSION JOINTS SHALL BE 1/Z" WIDE BY DEPTH OF SLAB. SEAL ALL EXPANSION JOINTS.
- INSTALL CONTROL JOINTS AT 6" OC MAXIMUM AND AT 6" BEHIND INTEGRAL CURB, CONTROL JOINTS SHALL BE 3/6" WIDE BY 1 1/2" DEEP AND TOOLED, SAWED JOINTS ARE NOT PERMITTED.
- WALK SHALL HAVE A MINIMUM CROSS SLOPE OF 1.00%, MAXIMUM CROSS SLOPE OF 2.00%.
- 4. WATER AND UTILITY BOXES IN THE WALK AREA SHALL BE ADJUSTED FLUSH WITH THE FINAL SURFACE.
- REFER TO ARCHITECTURAL PLANS FOR ADDITIONAL DETAIL AT ALL BUILDING DOORS.

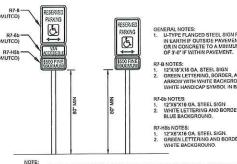
6. JOINTING PLANS MUST BE SUBMITTED FOR APPROVAL EXTERIOR CONCRETE SLAB WALK WITH INTEGRAL CURB DETAIL N.T.S.

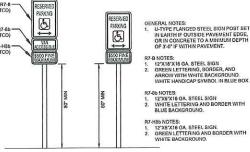


- INSTALL EXPANSION JOINTS AT 30' OC MAXIMUM AND WHERE SLAB ABUTS STRUCTURES, WHERE NEW WALK ABUTS ADJOINING WALK, SAWCUT EXISTING WALK TO INEAREST JOINT AND INSTALL EXPANSION JOINTS SHALL BE 1/2" WIDE BY DEPTH OF SLAB. SEAL ALL EXPANSION JOINTS.
- INSTALL CONTROL JOINTS AT 6" OC MAXIMUM. CONTROL JOINTS SHALL BE 3/8" WIDE BY 1 1/2" DEEP AND TOOLED, SAWED JOINTS ARE NOT PERMITTED.
- WALK SHALL HAVE A MINIMUM CROSS SLOPE OF 1.00%, MAXIMUM CROSS SLOPE OF 2.00%.
- WATER AND UTILITY BOXES IN THE WALK AREA SHALL BE ADJUSTED FLUSH WITH THE FINAL SURFACE.
- REFER TO ARCHITECTURAL PLANS FOR ADDITIONAL DETAIL AT ALL BUILDING DOORS.





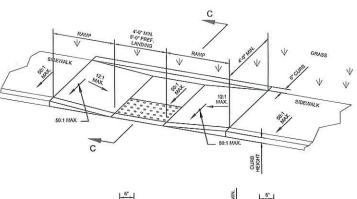




NOTE:

1. ONE ACCESSIBLE PARKING SPACE FOR EVERY SIX OR FRACTION THERE OF SHALL BE DESIGNATED AS "VAN ACCESSIBLE". LOCATION AS NOTED ON THE DRAWINGS.

2. ONE SIGN TO BE INSTALLED AT EACH ACCESSIBLE PARKING SPACE ACCESSIBLE PARKING SIGN DETAIL





- WHILE RAMPS MAY BE SKEWED TO THE CROSSWALK, THE ENTIRE LOWER LANDING AREA MUST FALL WITHIN THE CROSS WALK THAT THE RAMP SERVES AND CAINOT BE LOCATED IN THE TRAVELED LANE OF OPPOSING TRAFFIC.
- THE COUNTER SLOPE OF THE GUTTER OR STREET AT FOOT OF A CURB RAMP, LANDING, OR BLENDED TRANSITIONS SHALL BE 20:1 OR FLATTER.
- THE BOTTOM EDGE OF THE RAMP SHALL CHANGE PLANES PERPENDICULAR TO THE LANDING.
- RAMP LANDINGS SHALL BE 4' MIN. X 4' MIN. WITH A 50:1 OR FLATTER CROSS SLOPE AND RUNNING SLOPE.
- 6. DETECTABLE WARNINGS: INSTALL DETECTABLE WARNINGS ON EACH CURB RAMP WITH APPROVED MATERIALS, AS SHOWN IN SEPARATE DETAIL. INSTALL HIESE PROPRIETY PRODUCTS AS PER MANUFACTURER'S WRITTEN INSTRUCTIONS.
- 7. DRAINAGE: CONTRACTOR IS TO ENSURE THE BASE OF EACH CONSTRUCTED CURB RAMP ALLOWASE FOR PROBE DRAINAGE, WITHOUT EXCEEDING ALLOWABLE CROSS SLOPE OR RAMP SLOPES. VERTICAL CHANGE IN LEYEE EXCEEDING & BETWEEN THE!!) PACKET
- SURFACE TEXTURE: TEXTURE CONCRETE SURFACES BY COARSE BROOMING TRANSVERSE TO THE RAMP SLOPES TO BE ROUGHER THAN THE ADJACENT WALK.
- JOINTS: PROVIDE EXPANSION JOINTS IN THE CURB RAMP AS EXTENSIONS OF WALK JOINTS AND CONSISTENT WITH ITEM 608.03 REQUIREMENTS FOR A NEW CONCRETE WALK.

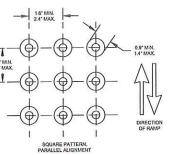
"WHERE POSSIBLE, POUR RAMP AREA INTEGRAL WITH THE CURB, OTHERWISE USE 6" THICK WALK.

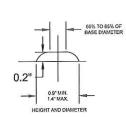


DETECTABLE WARNINGS ARE A DISTINCTIVE SURFACE PATTERN OF TRUNCATED DOMES WHICH ARE DETECT BY CAME OR UNDERFOOT TO ALERT PEOPLE WITH VIS IMPAIRMENTS OF THEIR APPROACH TO STREETS AND HAZARDAUS DROPAGES

DETECTABLE WARNINGS ARE TO BE INSTALLED AT ANY LOCATION WHERE PEDESTRAINS MIGHT CROSS PATHS WITH VEHICULAR TRAFFICE LAVES, SUCH AS THE BASE OF CURB RAMPS OR AT BLENDED CURBS. A 24" STRIP OF DOMES IS TO BE INSTALLED FOR THE FULL WIDTH OF THI RAMP OR WALK.

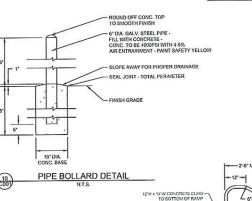
4. COLOR OF THE DETECTABLE WARNINGS SHOULD CONTRAST WITH SURROUNDING CONCRETE WALK AND RAMP. BLACK IS NOT AN ACCEPTABLE COLOR. APPROVED PRODUCTS AND GUIDANCE ON COLOR MAY BE FOUND ON THE ODOT OFFICE OF ROADWAY ENGINEERING SERVICE'S DETECTABLE WARNINGS APPROVED LIST. INSTALL

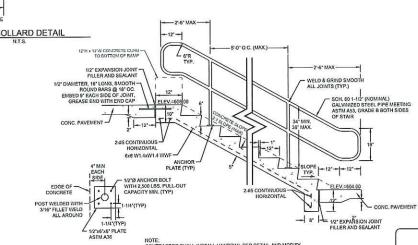




DETECTABLE WARNINGS DETAIL

N.T.S.





NOTE: CONTRACTOR SHALL INSTALL HANDRAIL PER DETAIL AND MODIFY OVERALL LENGTH AS NECESSARY PER NUMBER OF STAIR RISERS SHOWN ON PLAN. EXTERIOR STAIR DETAIL
N.T.S.

OHIO Utilities Protection SERVICE



6305 Centre Park Dr. West Chester, OH 45069 513.779.7851

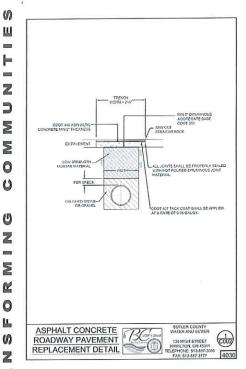
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DIXON BAYCO 7280 UNION CENTRE BLVD.

SECTION 10 TOWN 2 RANGE 2 BTM WEST CHESTER TOWNSHIP BUTLER COUNTY, OH

ROJECT NO 180242.001 08/21/2018

GENERAL NOTES AND DETAILS



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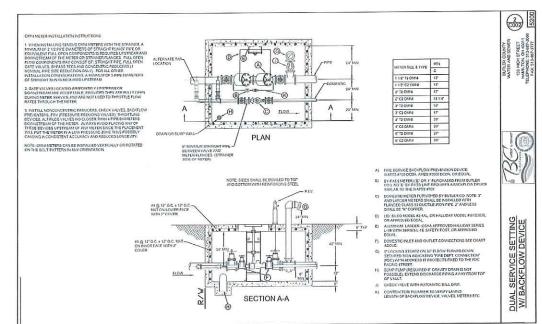
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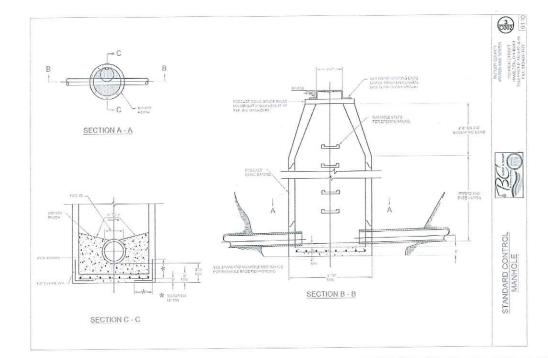
CLEANOUT DETAIL

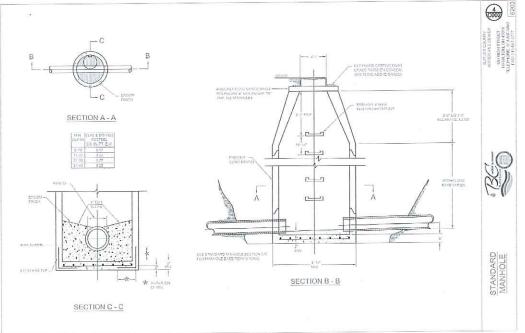
HARMING COLUMN

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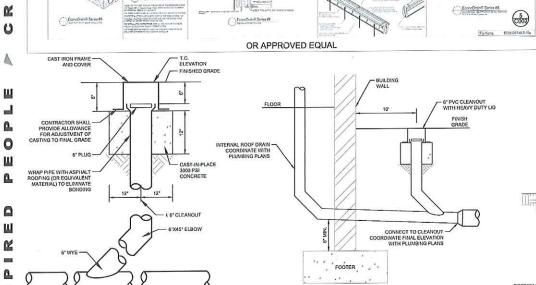






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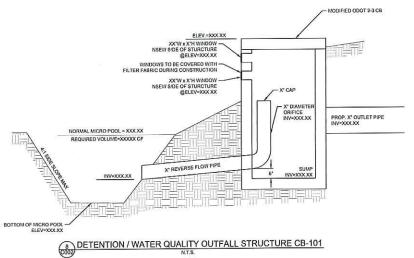
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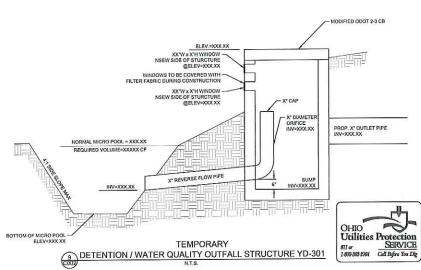


ROOF DRAIN

CONNECTION DETAIL
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<u>5-853</u>





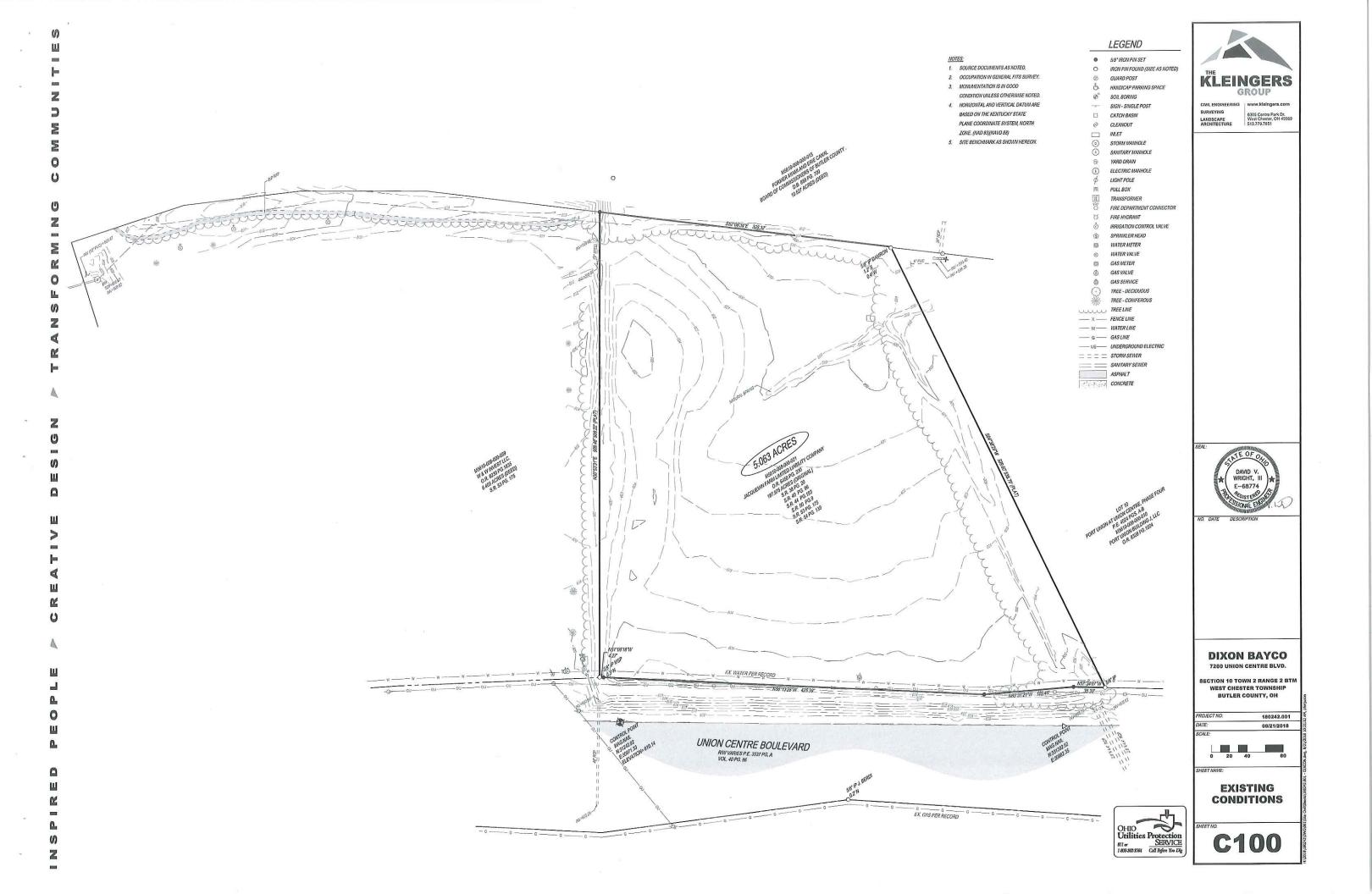


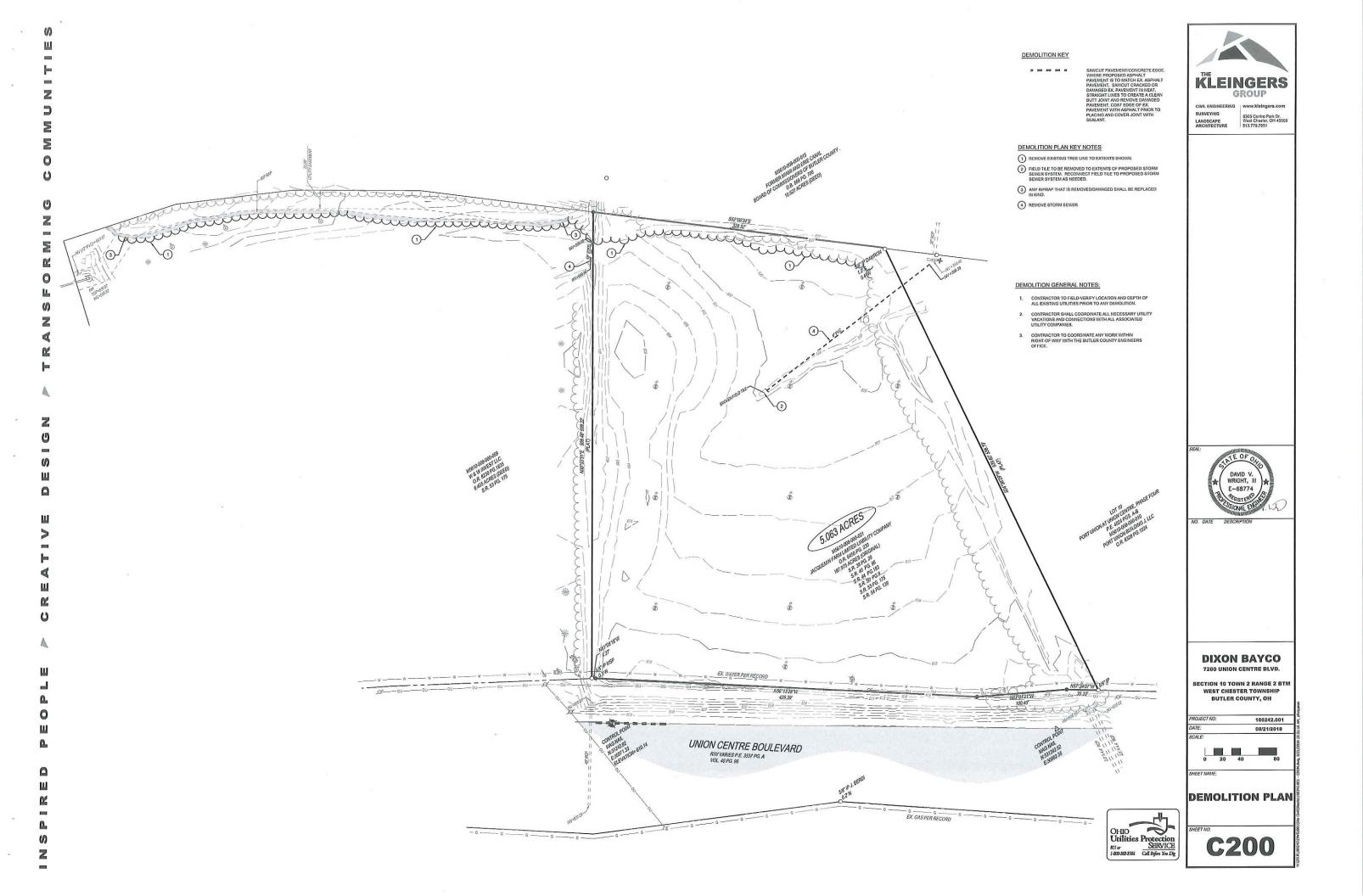
SECTION 10 TOWN 2 RANGE 2 BTM WEST CHESTER TOWNSHIP BUTLER COUNTY, OH

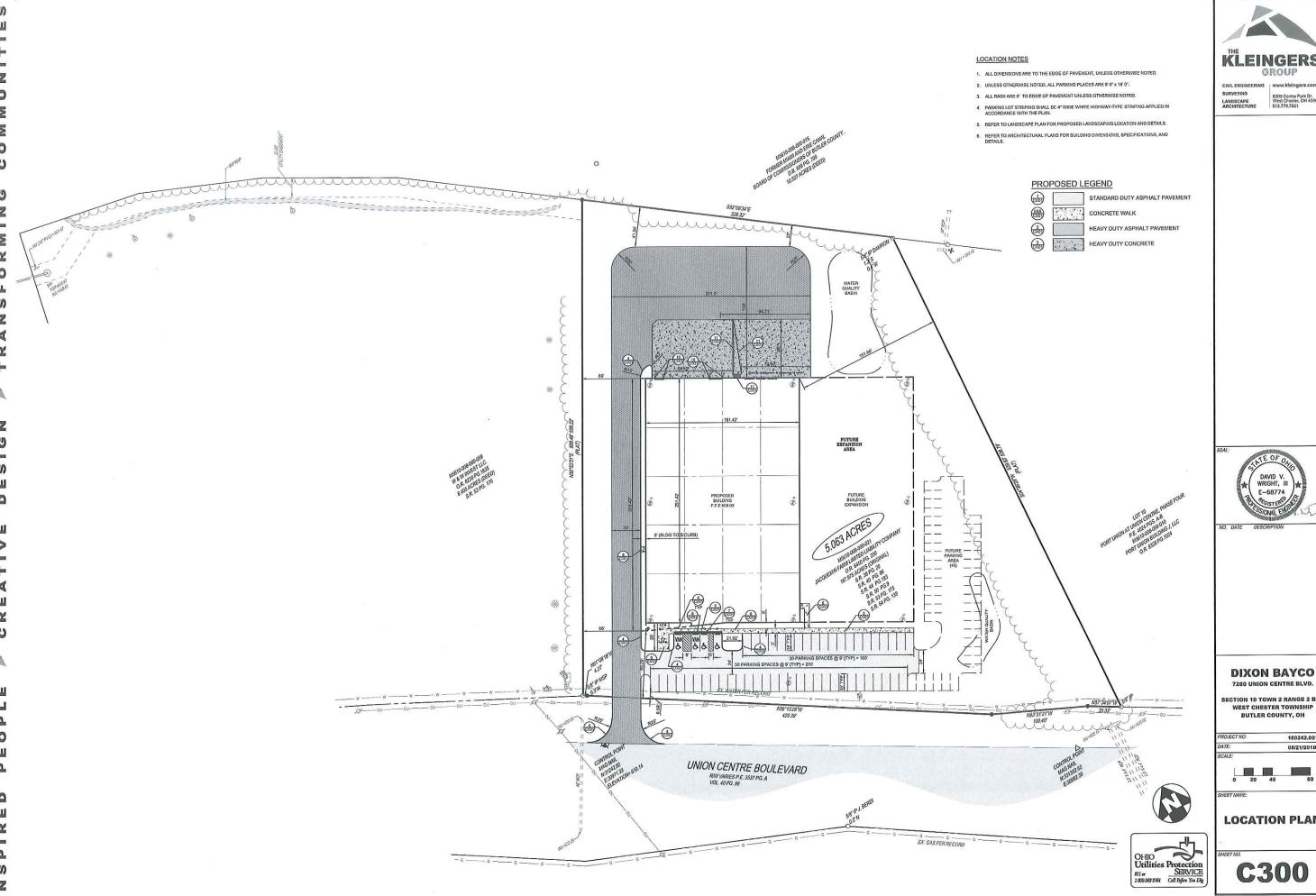
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UTILITY DETAILS









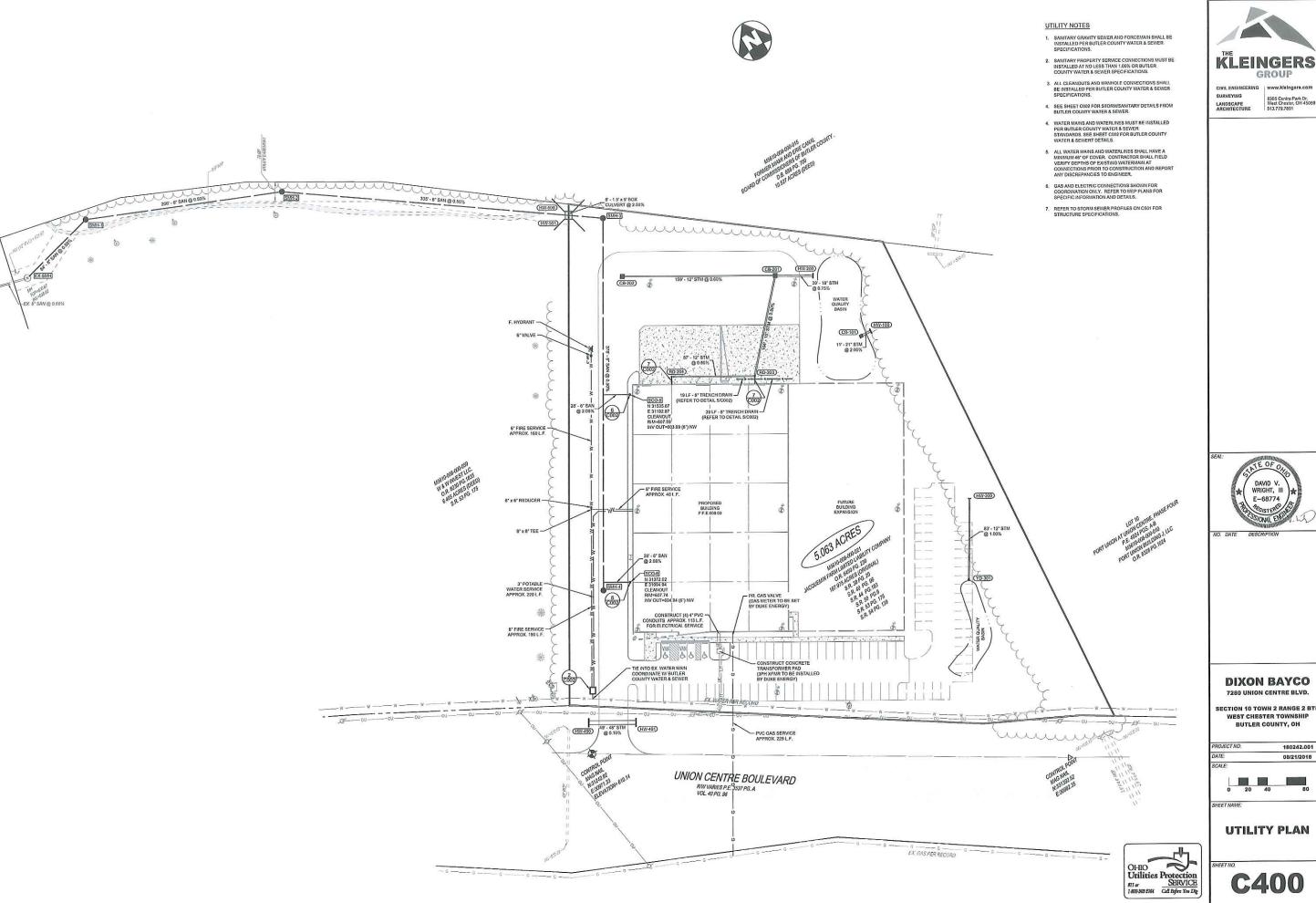


DIXON BAYCO

SECTION 10 TOWN 2 RANGE 2 BTM WEST CHESTER TOWNSHIP BUTLER COUNTY, OH

180242.001

LOCATION PLAN



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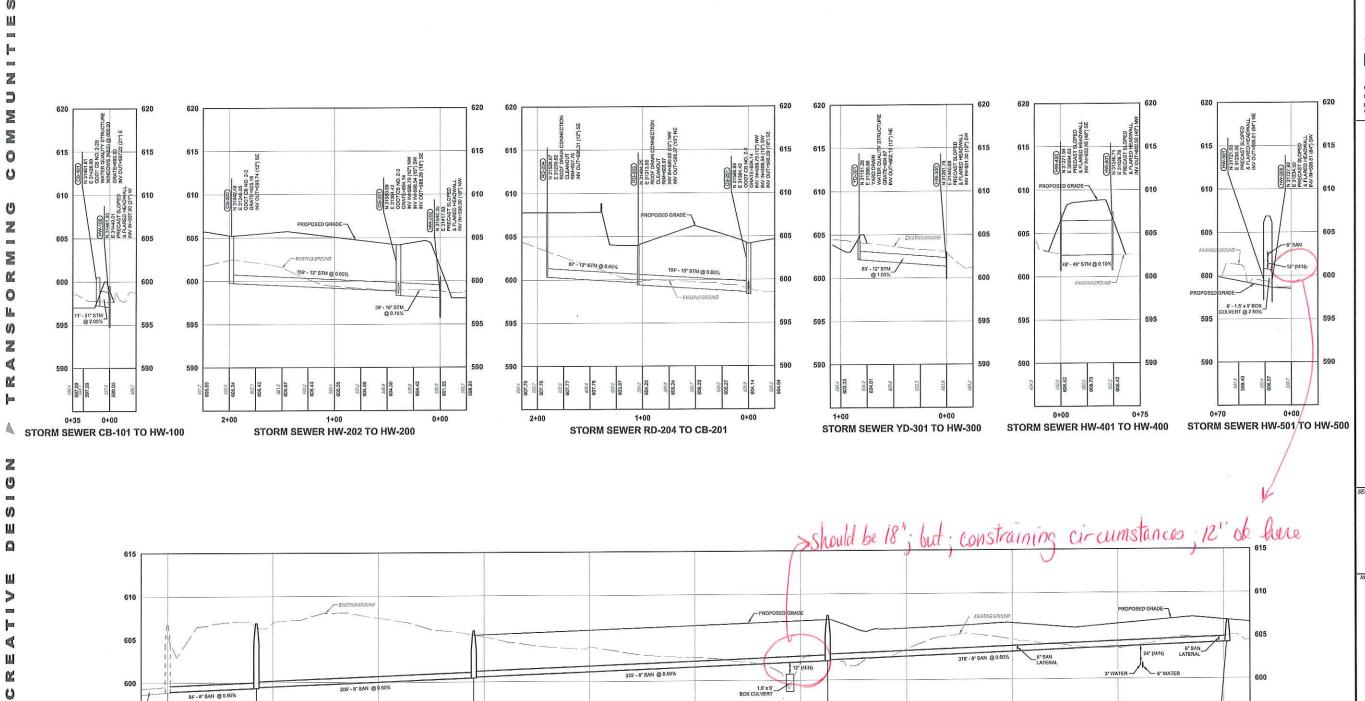
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SECTION 10 TOWN 2 RANGE 2 BTM WEST CHESTER TOWNSHIP BUTLER COUNTY, OH

180242.001 08/21/2018



UTILITY PLAN



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| NEERING | WWW.kleingers.com | G | 6305 Centre Park Dr. | | PE | West Chester, OH 45069 | TURE | 513.779.7851



DIXON BAYCO
7280 UNION CENTRE BLVD.

SECTION 10 TOWN 2 RANGE 2 BTM WEST CHESTER TOWNSHIP BUTLER COUNTY, OH

PROJECT NO: 180242.001

DATE: 08/21/2018

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UTILITY PROFILES

SHEET NO.

SHEET NO.

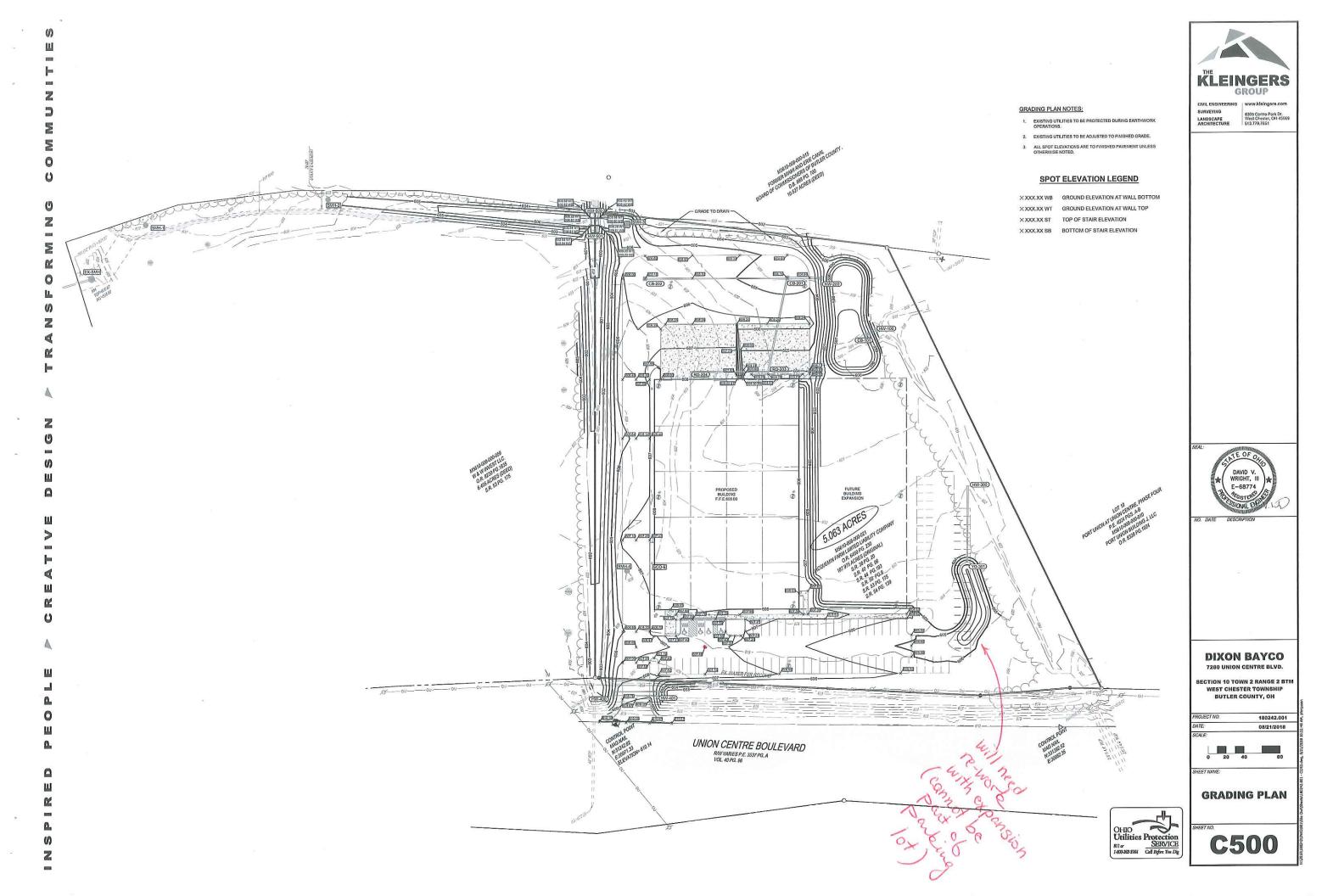
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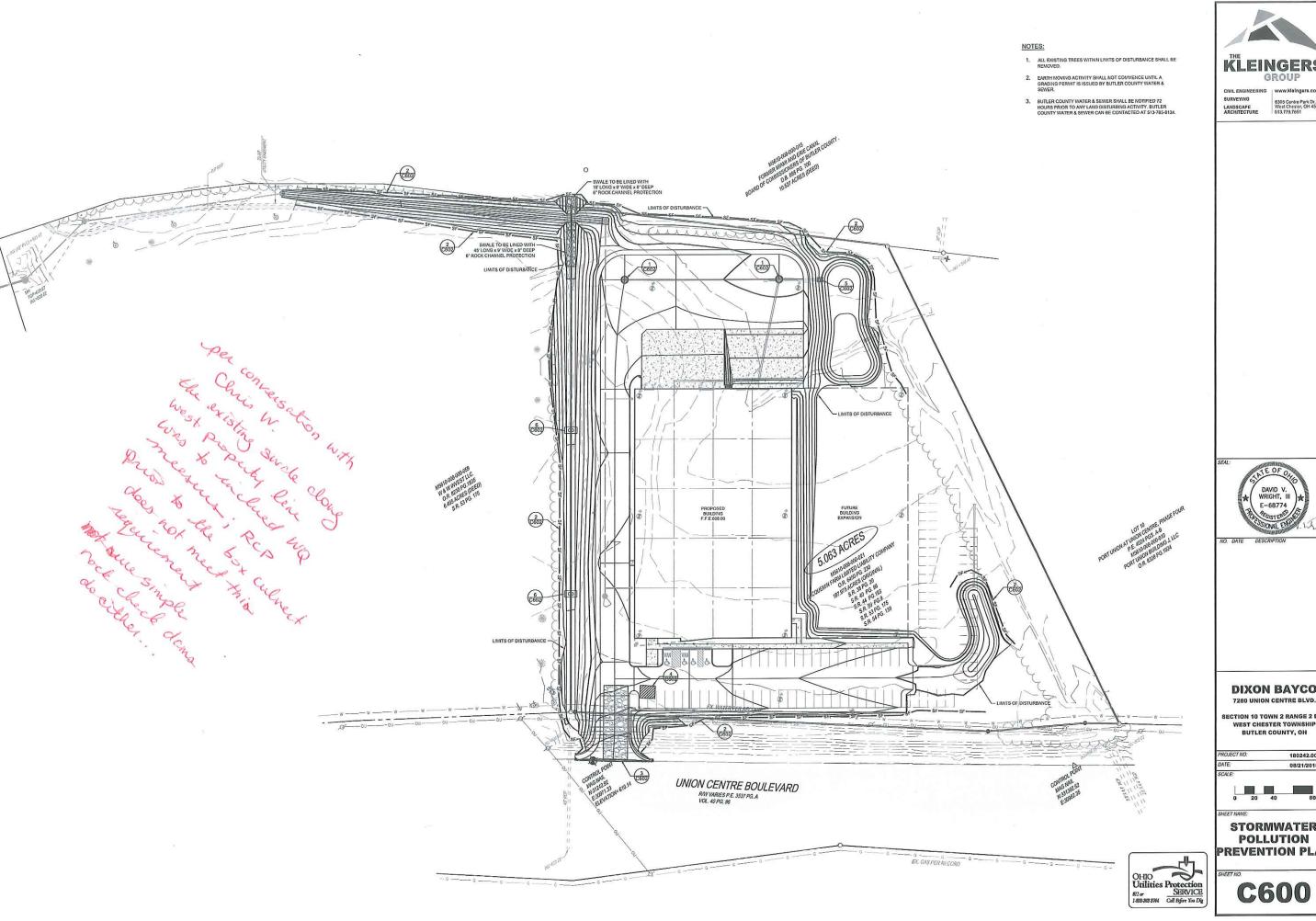
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Utilities Protection
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9+00

7+00







SURVEYING 6305 Centre Park Dr.
LANDSCAPE West Chester, OH 45059
ARCHITECTURE 513.779.7851



DIXON BAYCO

SECTION 10 TOWN 2 RANGE 2 BTM WEST CHESTER TOWNSHIP BUTLER COUNTY, OH

180242.001

STORMWATER POLLUTION PREVENTION PLAN

PROJECT DESCRIPTION
PROPOSED INDUSTRIAL DEVELOPMENT IN BUTLER COUNTY, OHIO INCLUDING BUILDING, PARKING LOTS, SIDEWALK, STORM WATER QUALITY TREATMENT

PROJECT DATA
TOTAL SITE AREA:

4.99 ACRES 3.41 ACRES

PROPOSED IMPERVIOUS AREA: PERCENTAGE OF CREATED IMPERVIOUS AREA:

RUNOFF COEFFICIENT FOR PRE-CONSTRUCTION: RUNOFF COEFFICIENT FOR POST-CONSTRUCTION*:

ESTIMATED CONSTRUCTIONS DATES: SOIL TYPES, DESCRIPTIONS;

SEPTEMBER 2018 - SEPTEMBER 2019 DANA SILT LOAM, SOUTHERN OHIO TILL PLAN (OCB), PATTON SILTY CLAY LOAM (Pa), XENA SILT LOAM, (XB)

3.41 ACRES 68%

UNDEVELOPED

GENERAL NOTES

THE CONTRACTOR IS HEREBY ADVISED THAT STRICTER POLLUTION CONTROL STANDARDS AND ENFORCEMENT HAVE BEEN IMPOSED BY THE OHIO EPA SINCE MARCH 10, 203 AND WITH A REVISION IN APRIL 2009, ALSO, MANY PRIVATE CITIZED REPROSIMENTAL GROUPS, WHO HAVE BEEN KNOWN TO FILE CIVIL LEGAL ACTIONS, ARE PRESENT IN THE AREA AND OBSERVE ALL CONSTRUCTION OPERATIONS.

THE CONTRACTOR SHALL INFORM ALL SUBCONTRACTORS OF THE REQUIREMENTS AND RESPONSIBILITIES OF THE SWPPP AND SHALL DOCUMENT ALL SUCH NOTIFICATIONS AND/OR DISCUSSIONS. ALL SUBCONTRACTORS SHALL SIGN THE NOI.

THE CONTRACTOR WILL BE REQUIRED TO PARTICIPATE IN SEDIMENT AND EROSION CONTROL INSPECTIONS ON A WEEKLY BASIS AND SIGN AN APPROVED INSPECTION SHEET THAT SHALL BE KEPT ON FILE AT THE JOB SITE.

UNLESS OTHERWISE NOTED, STANDARDS AND SPECIFICATIONS ESTABLISHED IN THE LATEST EDITION OF THE ODINR "RAINWATER AND LAND DEVELOPMENT" HANDBOOK SHALL GOVERN THE EROSION AND SEDIMENT CONTROL INSTALLATIONS SPECIFIED ON THIS PLAN.

THE CONTRACTOR WILL VOLUNTARILY SELF REPORT ANY POTENTIAL VIOLATIONS OF THE CEPA NPDES PERMIT TO THE OWNER, ENGINEER AND THE CEPA.

THE CONTRACTOR SHALL REMOVE EXISTING GROUND COVER ONLY AS NECESSARY FOR THE PROJECT PHASE CURRENTLY UNDER CON-

CONSTRUCTION AND DEMOLITION DEBRIS SHALL BE PROPERLY DISPOSED OF ACCORDING TO OHIO EPA REQUIREMENT

THE CONTRACTOR WILL BE REQUIRED TO BUILD SEDIMENT BASINS OR SEDIMENT TRAPS OR USE EQUAL METHODS TO DETAIN AND CLEAN WATER TO ACCEPTABLE EPA STANDARDS BEFORE RELEASING THE WATER BACK INTO THE STREAM.

THERE SHALL BE NO TURBID DISCHARGES TO SURFACE WATERS, RESULTING FROM DEWATERING ACTIVITIES. SEDIMENT-LADEN WATER MUST PASS THROUGH A SETTLING POND, FILTER BAG, OR OTHER COMPARABLE PRACTICE, PRIOR TO DISCHARGE.

NO SOLID OR LIQUID WASTE SHALL BE DISCHARGED INTO STORM WATER RUNOFF

ALL PROCESS WASTEWATER (EQUIPMENT WASHING, LEACHATE FROM ON-SITE WASTE DISPOSAL, ETC.) SHALL BE COLLECTED AND DISPOSED OF AT A PUBLICLY OWNED TREATMENT WORKS.

ALL CONSTRUCTION ACTIVITIES MUST COMPLY WITH ALL LOCAL EROSION/SEDIMENT CONTROL, WASTE DISPOSAL, SANITARY AND HEALTH REGULATIONS

OTHER EROSION CONTROL ITEMS MAY BE NECESSARY DUE TO ENVIRONMENTAL CONDITIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLATION AND IMPLEMENTATION OF ADDITIONAL EROSION CONTROL ITEMS, AT THE ENGINEER'S DISCRETION.

NO SOIL, ROCK, DEBRIS OR OTHER MATERIAL SHALL BE DUMPED OR PLACED IN ANY AREAS NOT ADEQUATELY PROTECTED BY EROSION CONTROL INSTALLATIONS.

IT IS PREFERRED TO USE PERMANENT EROSION CONTROL ITEMS AS SHOWN IN THE PLANS TO CONTROL CONSTRUCTION POLLUTION WHEN POSSIBLE, OTHERWISE, THE TEMPORARY POLLUTION PREVENTION ITEMS ARE TO BE USED.

MOST TEMPORARY SACC METHODS, INCLUDING BUT NOT LIMITED TO, SLIT FENCE AND DITCH CHECKS MAY ALL HAVE TO BE PERIODICALLY REMOVED AN REPLACED, OR NOVED FROM THE EXISTING ROAD DITCH OR STRIPPED AREAS AS WORK PROGRESSES. ANY CHANGES SHALL BE NOTED IN THE PLAN BY RED LINE AND DATE ON A CORRECTIVE ACTION LOST.

ALL TEMPORARY SEDIMENT CONTROLS AND STORM WATER QUALITY METHODS WILL BE BUILTINSTALLED AS THE PROJECT PROGRESSES TO ELIMINATE UNINECESSARY DISTURBANCE AND REDUNDANCY, ALL TEMPORARY CONTROLS SHALL BE IN PLACE AND FUNCTIONING PROPERLY WHEN THREATENING WEATHER IS MINMENT.

PERMANENT STABILIZATION MEANS THE ESTABLISHMENT OF PERMANENT VEGETATION, DECORATIVE LANDSCAPE MULCHING, MATTING, SOD, RIP RAP AND LANDSCAPING TECHNIQUES TO PROVIDE PERMANENT EROSION CONTRIC. ON AREAS WHERE CONSTRUCTION OPERATIONS ARE COMPLETE OR WHERE NO PURITHER DISTURBANCE IS EXPECTED FOR AT LEAST A YEAR.

OFF-SITE TRACKING OF SEDIMENTS SHALL BE MINIMIZED. A STABILIZED CONSTRUCTION ENTRANCE WILL BE PROVIDED TO HELP REDUCE VEHICLE TRACKING OF SEDIMENTS. ALL PAVED STREETS ADJACENT TO THE SITE WILL BE SWEPT DALTY DREMOVE ANY EXCESS MUD, DIRT OR ROCK TRACKED FROM THE SITE. DUMP TRUCKS HULLING MATERIAL FROM THE CONSTRUCTION SITE WILL BE COVERED WITH A TARP.

OPERATION SEQUENCE FOR TEMPORARY AND PERMANENT BMP INSTALLATION

TO COMPLETE THE EXCAVATION AND CONSTRUCTION OF THE PROPOSED JOB IMPROVEMENTS, COORDINATION OF THE CONTRACTOR'S WORK CREVYS WILL BE REQUIRED, THE EXISTING DITCHES WILL PERFORM TEMPORARY SEDIMENT CONTROL AND STORAGE DURING THE PROPOSED CONSTRUCTION. WORK WILL CENERALLY PROCEED FROM DOWNSTREAM TO UPSTREAM IN THESE WORK AREAS. THE GENERAL CONSTRUCTION SEQUENCE IS AS FOLLOWS:

B) STRIP TOPSOIL AND ANY UNSUITABLE MATERIAL THROUGH THE INCREMENTAL WORK AREA

C) INSTALL TEMPORARY DITCH CHECKS IN DOWNSTREAM END OF EXISTING DITCH WITHIN 24 HOURS FOLLOWING THE STRIPPING OPERATION

D) IF U/G PIPE IS CALLED FOR IN THIS PORTION OF WORK AREA, PIPE CREW WILL INSTALL PIPE AS WELL AS MANHOLES.

DIFF OF PERSONNED TO THE INTERPRETATION OF THE ROADWAY WILL PROCEED BEHAD IT.

F) ANY DISTURBED OR EXPOSED AREAS SHALL BE STABILIZED PER OEPA TEMPORARY AND PERMANENT STABILIZATION REGULATIONS INCLUDING:

1. SEEDING

2. DITCH MATTING 3. INLET PROTECTION

STABILIZATION PRACTICES

PERMANENT SEEDING AND MULCHING STABILIZATION SHALL BE PROVIDED PER CEPA GUIDELINES AS SET FORTH IN PART ILB OF CHIC EPA PERMIT NO.: OHCODOGO. (SEE TABLE 1)

TABLE 1: PERMANENT STABILIZATION			
AREA REQUIRING PERMANENT STABILIZATION	TIME FRAME TO APPLY EROSION CONTROLS		
ANY AREAS THAT WILL LIE DORMANT FOR ONE YEAR OR MORE	WITHIN SEVEN DAYS OF THE MOST RECENT DISTURBANCE		
ANY AREAS WITHIN 50 FEET OF A SURFACE WATER OF THE STATE AND AT FINAL GRADE	WITHIN TWO DAYS OF REACHING FINAL GRADE		
ANY OTHER AREAS AT FINAL GRADE	WITHIN SEVEN DAYS OF REACHING FINAL GRADE WITHIN THAT AREA		

TEMPORARY SEEDING AND MULCHING STABILIZATION SHALL BE PROVIDED PER CEPA GUIDELINES AS SET FORTH IN PART II.B OF OHIO EPA PERMIT NO.: OHCOCOCO. (SEE TABLE 2)

TABLE 2: TEMPORARY STABILIZATION		
AREA REQUIRING TEMPORARY STABILIZATION	TIME FRAME TO APPLY EROSION CONTROLS	
ANY DISTURBED AREAS WITH 50 FEET OF A SURFACE WATER OF THE STATE AND NOT AT FINAL GRADE	WITHIN TWO DAYS OF THE MOST RECENT DISTURBANCE IF THE AREA WILL REMAIN IDLE FOR MORE THAN 14 DAYS	
FOR ALL CONSTRUCTION ACTIVITIES, ANY DISTURBED AREAS THAT VALL BE DORMANT FOR MONCE THAN 14 DAYS BUT LESS THAN ONE YEAR, AND NOT WITHIN 50 FEET OF A SURFACE WATER OF THE STATE	WITHIN SEVEN DAYS OF THE MOST RECENT DISTURBANCE WITHIN THE AREA FOR RESIDENTIAL SUBDIVISIONS, DISTURBED AREAS MUST BE STABILIZED AT LEAST SEVEN DAYS PRIOR TO TRANSFER OF PERMIT COVERAGE FOR THE MONIOUAL LOTIS.	
DISTURBED AREAS THAT WILL BE IDLE OVER WINTER	PRIOR TO THE ONSET OF WINTER WEATHER	

SEEDING & MULCHING

MULCH AND/OR OTHER APPROPRIATE VEGETATIVE PRACTICES SHALL BE APPLIED TO DISTURBED AREAS WITHIN 7 DAYS OF GRADING IF THE AREA IS TO REMAIN DORMANT (UNDISTURBED) FOR MORE THAN 14 DAYS OR ON AREAS AND PORTIONS OF THE SITE WHICH CAN BE BROUGHT TO FINAL GRADE.

MULCH SHALL CONSIST OF UNROTTED SMALL GRAIN STRAW APPLIED AT THE RATE OF 3 TONSIAC. OR 138 LB J1000 SG. FT. (TWO TO THREE BALES), THE STRAW HULCH SHALL SE SPREAD UNFORMLY BY HAND OR MECHANICALLY SO THE SOIL SURFACE IS COVERED. FOR UNFORM DISTRIBUTION OF HAND-SPREAD MULCH, DIVIDE AREA INTO APPROXIMATELY 1003-SQ.-FT. SECTIONS AND FLACE THREE 45 LB BALES OF STRAW IN EACH SECTION.

MULCH SHALL BE ANCHORED IMMEDIATELY TO MINIMIZE LOSS BY WIND OR RUNOFF. THE FOLLOWING ARE ACCEPTABLE METHODS FOR ANCHORING MULCH:

1) MECHANICAL USE A DISK, CRIMPER, OR SIMILAR TYPE TOOL SET STRAIGHT TO PUNCH OR ANCHOR THE MULCH MATERIAL INTO THE SOLL STRAW MECHANICALLY ANCHORED SHALL NOT BE FINELY CHOPPED BUT BE LEFT GENERALLY LONGER THAN BIT.

2) MULCH NETTINGS-USE ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS, FOLLOWING ALL PLACEMENT AND ANCHORING SUGGESTIONS. USE IN AREAS OF WATER CONCENTRATION AND STEEP SLOPES TO HOLD MULCH IN PLACE 3) ASPHALT EMULSION-FOR STRAW MULCH, APPLY AT THE RATE OF 160 GALIAC, (0.1 GAL/SY) INTO THE MULCH AS IT IS BEING APPLIED OR AS RECOMMENDED BY THE MANUFACTURE.

4) SYNTHETIC BINDERS-FOR STRAW MULCH, SYNTHETIC BINDERS SUCH AS ACRYLIC DLR (AGRI-TAC), DCA-70, PETROSET, TERRA TACK OR EQUAL MAY BE USED AT RATES RECOMMENDED BY THE MANUFACTURER.

TEMPORA	RY SEEDING & MULCH EROSION CONTROL	ING FOR
SEED TYPE	PER 1000 SQ FT	PER ACRE
PERENNAL RYEGRASS TALL FESCUE ANNUAL RYEGRASS	1 POUND 1 POUND 1 POUND	40 POUNDS 40 POUNDS 40 POUNDS
SMALL GRAIN STRAW	SO POUNDS	2 TONS
FERTILIZER	6 POUNDS OF 10-10-10 OR 12-12-12	250 FOUNDS OF 10-10-10 OR 12-12-12

WINTER SEEDING & MULCHING

WINTER SEED AND MUICH IS REQUIRED FOR EARTH DISTURBANCE ACTIVITY OPERATIONS OCCURRING BETWEEN OCTOBER IS AND MARCH 19 AND CAN ONLY BE INSTALLED DURING THAT TIME. ALL STRAW MUICH INCLUDED IN THIS WORK MUST BE EITHER CRIMPED IN PLACE OR INSTALLED WITH A BIODEGRADABLE BONDED FOR BEER MATRIX, CRIMPED MUICH IS REQUIRED TO BE ANCHORED INTO THE SOLI SURFACE WITH A MECHANICAL CRIMPING MPLEMENT OR OTHER SUITABLE IMPLEMENT APPROVED BY THE ENGINEER THE MULCH CALUDED IN THIS WORK MUST BE CAPABLE OF PROVIDING SUFFICIENT DURABLE FOR PROTECTIVE COVER THAT PROVIDES DEPA IN PROSES PERMIT COMPLIANT EROSION CONTROL FOR A MINIMUM OF B MONTHS. THE USE OF OTHER SEED ANDOR MUICH HAIR PLANT THE MUST BE CONTROL FOR THE MUICH MAINTING THE SUBGRADE SURFACE.

SILT FENCING SHALL BE INSTALLED AROUND TEMPORARY SPOIL STOCKPILES. THESE STOCKPILES SHALL BE STRAW MULCHED ANDIOR TEMPORARILY SEEDED WITHIN 7 WORKING DAYS IF LEFT DORMANT FOR 14 DAYS OR LONGER.

TIMING OF CONTROLS/MEASURES

AS INDICATED IN THE SEQUENCE OF MAJOR ACTIVITIES, CONSTRUCTION ENTRANCE(S) AND SILT FENCE WILL BE CONSTRUCTED PRIOR TO CLEARING OR GRADING OF ANY OTHER PORTIONS OF THE SITE. SEDIMENT CONTROL DEVICES SHALL BE WIPLELMENTE OF ALL AREAS REMAINING DISTURBED LONGER THAN 16 DAYS AND/OR WITHIN 17 DAYS OF ANY GRIDBING ACTIVITIES. AREAS WHERE CONSTRUCTION ACTIVITY TEMPORARIX CEASES FOR MORE THAN 16 DAYS WILL BE STABILIZED WITH A TEMPORARY SEED AND MULCH WITHIN 2 DAYS OF THE LAST DISTURBANCE IF THE AREA IS WITHIN 5 PEET OF A STREAM, AND WITHIN 17 DAYS OF THE LAST DISTURBANCE IF THE AREA IS WITHIN 16 PEET OF A STREAM, AND ACTIVITY CEASES PERMANENTLY IN AN AREA THAT AREA VIAL BE ASTRUCTED THE PERMALENT SEED AND MULCH. AFTER THE ENTIRE SITE IS STABILIZED, THE ACCUMULATED SEDIMENT WILL BE REMOVED FROM THE BASIN.

INSPECTIONS

ALL BMPS ON THIS SITE SHALL BE INSPECTED BY THE CONTRACTOR OR DESIGNATED REPRESENTATIVE AT LEAST ONCE EVERY SEVEN CALEMDAR DAYS AND WITHIN 24 HOURS AFTER A BANK EVENT OF 0.5 INCHES PER 24 HOUR FERIOD. A RECORD OF THESE INSPECTIONS SHALL BE MAINTAINED IN THE CONSTRUCTION OFFICE WITH THE SWPP FOR PUBLIC VIEWING. AITY VIOLATIONS WILL BE REPORTED THROUGH THE PROJECT PERSONNEL. A RAIN GAUGE WILL BE LOCATED WITHIN THE PROJECT LIMITS.

FOLLOWING EACH INSPECTION, A CHECKLIST MUST BE COMPLETED AND SIGNED BY THE QUALIFIED INSPECTION PERSONNEL REPRESENTATIVE. AT A MINIMUM, THE INSPECTION REPORT SHALL INCLUDE:

- 2. NAMES, TITLES, AND QUALIFICATIONS OF PERSONNEL MAKING THE INSPECTION;
- I. VERATHER INFORMATION FOR THE PERIOD BINCE THE LAST INSPECTION (OR SINCE COMMENCEMENT OF ONSTRUCTION FOR SINCE COMMENCEMENT OF ONSTRUCTION ACTIVITY FOR HEISTI INSPECTION) INCLUDING A BEST ESTIMATE OF THE BEDINNING OF EACH STORM EVENT, DURATION OF EACH STORM EVENT, APPROXIMATE ANOUNT OF RAINFALL FOR EACH STORM EVENT (IN NICHES), AND VIETIEME AND VISICHARGES OCCURRED.
- NCHES, AND WHE HER MY DISCHARGES OCCURRED;

 4. WEATHER INFORMATION AND A DESCRIPTION OF MY DISCHARGES OCCURRING AT THE TIME OF THE INSPECTION;

 5. LOCATION(S) OF DISCHARGES OF SEDIMENT OR OTHER POLLUTANTS FROM THE SITE;

 6. LOCATION(S) OF BMPS THAT NEED TO BE MAINTAINED;

- LOCATION(S) OF BMPS THAT FAILED TO OPERATE AS DESIGNED OR PROVED INADEQUATE FOR A PARTICULAR LOCATION;
- 8. LOCATION(S) WHERE ADDITIONAL BMPS ARE NEEDED THAT DID NOT EXIST AT THE TIME OF INSPECTION; AND CORRECTIVE ACTION REQUIRED INCLUDING ANY CHANGES TO THE SWP3 NECESSARY AND IMPLEMENTATION DATES.

THE PERMITTEE SHALL MAINTAIN A RECORD OF ALL INSPECTIONS FOR A PERIOD OF 3 YEARS FOLLOWING THE SUBMITTAL OF THE NOTICE OF TERMINATION.

MAINTENANCE

THE CONTRACTOR SHALL MAINTAIN, REPAIR, OR REPLACE ALL EROSION CONTROL INSTALLATIONS AS NEEDED TO ENSURE THE CONTINUED PERFORMANC THEIR INTENDED PLINCTION, ALL REPAIRS TO BMPS SHALL BE MADE WITHIN 3 DAYS (OR SOORER IF POSSIBLE) OF NOTHICATION OF BEFORENCES. IF THE CORRECTIONS ARE NOT MADE WITHIN THE 3 DAY PERIOD, LIQUIDITED DAMAGES HAVE SESSESSED SHERT IN COORT OWN SECTION 109 27.

ONGOING INSPECTION OF INSTALLATIONS WILL BE PERFORMED BY THE CONTRACTOR OR DESIGNATED REPRESENTATIVE.

ANY TRAPPED SEDIMENT OR DEBRIS REMOVED DURING CLEANING OF OR REMOVAL OF BMP INSTALLATIONS SHALL BE PLACED IN AREAS NOT SUBJECT TO EROSION AND PERMANENTLY STABILIZED.

SPILL PREVENTION

THE FOLLOWING ARE THE MATERIAL MANAGEMENT PRACTICES THAT WILL BE USED TO REDUCE THE RISK OF SPILLS OR OTHER ACCIDENTAL EXPOSURE OF MATERIALS AND SUBSTANCES TO STORM WATER RUNOFF.

GOOD HOUSEKEEPING:

THE FOLLOWING GOOD HOUSEKEEPING PRACTICES WILL BE FOLLOWED ONSITE DURING THE CONSTRUCTION PROJECT.

- 2. ALL MATERIALS STORED ONSITE WILL BE STORED IN A NEAT, ORDERLY MANNER IN THEIR APPROPRIATE CONTAINERS AND, IF POSSIBLE, UNDER A ROOF OR OTHER RECOGNICE.
- 3 PRODUCTS WILL BE KEPT IN THEIR ORIGINAL CONTAINERS WITH THE ORIGINAL MANUFACTURER'S LABEL.
- PRODUCTS WILL BE REFT IN THEIR OFFICIAL CONTINUES WITH THE VINDER BROWNERS OF THE SUBSTANCES BY THE MANUFACTURER.

 WHENEVER POSSIBLE, ALL OF A PRODUCT WILL BE USED UP BEFORE DISPOSING OF THE CONTAINER.

 MANUFACTURERS RECOMMENDATIONS FOR PROPER USE AND DISPOSAL WILL BE FOLLOWED.

 MANUFACTURERS RECOMMENDATIONS FOR PROPER USE AND DISPOSAL WILL BE FOLLOWED. 7. THE SITE SUPERINTENDENT WILL INSPECT DAILY TO ENSURE PROPER USE AND DISPOSAL OF MATERIALS ONSITE.

THESE PRACTICES ARE USED TO REDUCE THE RISKS ASSOCIATED WITH HAZARDOUS MATERIALS.

- PRODUCTS WILL BE KEPT IN ORIGINAL CONTAINERS UNLESS THEY ARE NOT RESEALABLE.
 ORIGINAL LABELS AND MATERIAL SAFETY DATA WILL BE RETAINED, THEY CONTAIN IMPORTANT PRODUCT INFORMATION.
 IF SURPLUS PRODUCT MUST BE DISPOSED OF, MANUFACTURERS' OR LOCAL AND STATE RECOMMENDED METHODS FOR PROPER DISPOSAL WILL BE FOLLOWED.

SPILL CONTROL PRACTICES

IN ADDITION TO THE GOOD HOUSEKEEPING AND MATERIAL MANAGEMENT PRACTICES DISCUSSED IN THE PREVIOUS SECTIONS OF THIS PLAN, THE FOLLOWING PRACTICES WILL BE FOLLOWED FOR SPILL PREVENTION AND CLEANUP:

- 1. ALL SPILLS SHALL BE CLEANED UP IMMEDIATELY AFTER DISCOVERY, MANUFACTURERS' RECOMMENDED METHODS FOR SPILL CLEANUP POSTED AND SITE PERSONNEL WILL BE MADE AWARE OF THE PROCEDURES AND THE LOCATION OF THE INFORMATION AND CLEANUP SUPPLIES.

 MATERIALS AND EQUIPMENT INCRESSARY FOR SPILL CLEANUP WILL BE KEPT IN THE MITERIAL STORAGE AREA ORISITE. EQUIPMENT AND MATERIALS WILL INCLUDE BUT NOT BE LUMITED TO BROOMS, DUST PANS, MOPS, RAGS, GLOVES, GOGGLES, KITTY LITTER, SANO, SAWDUST, AND PLASTIC AND METAL TRASH CONTAINERS SPECIFICALLY FOR THIS PURPOSE.
- 3. THE SPALL AREA WILL BE KEPT WELL VENTILATED AND PERSONNEL WILL WEAR APPROPRIATE PROTECTIVE CLOTHING TO PREVENT INJURY FROM CONTACT WITH A HUZARDOUS SUBSTANCE.
- 4. SPILLS OF TOXIC OR HAZARDOUS MATERIAL WILL BE REPORTED TO THE APPROPRIATE STATE OR LOCAL GOVERNMENT AGENCY, REGARDLESS OF THE SIZE. SPILLS OF 25 OR MORE GALLONS OF PETROLEUM WASTE MUST BE REPORTED TO OHIO EPA (1-800-282-9378), THE LOCAL FIRE DEPARTMENT, AND THE LOCAL EMERGENCY PLANNING COMMITTEE WITHIN 30 MINUTES OF THE SPILL.
- SOILS CONTAMINATED BY PETROLEUM OR OTHER CHEMICAL SPILLS MUST BE TREATED/DISPOSED AT AN OHIO EPA APPROVED SOUID WASTE MANAGEMENT FACILITY OR HAZARDOUS WASTE TREATMENT, STORAGE OR DISPOSAL FACILITY (TSOF).
- FACILITY OR HAZARDOUS WASTE TREATMENT, STORAGE OR DISPOSAL FACILITY (TSOP).

 THE SPAL FREVENTION PLAY WILL BE ADJUSTED TO INCLUDE MEASURES TO PREVENT THIS TYPE OF SPILL FROM REOCCURRING AND HOW TO CLEAN UP
 THE SPAL IF THERE IS ANOTHER ONE. A DESCRIPTION OF THE SPILL, WHAT CAUSED IT, AND THE CLEANUP MEASURES WILL ALSO BE INCLUDED.

 THE SITE SUPPRINTENDENT RESPONSIBLE FOR THE DAY-TOAN SITE OPERATIONS, WILL BE THE SPILL PREVENTION CLEANUP COORDINATOR. HE WILL
 DESIGNATE SITE PERSONNEL WHO WILL RECEIVE SPILL PREVENTION AND CLEANUP TRANSING. THESE INDIVIDUALS WILL EACH BECOME RESPONSIBLE FOR A
 PARTICULAR PHASE OF PREVENTION AND CLEANUP. THE AVANCE OF RESPONSIBLE SPILL PREVENTION WILL BE CONTROLLED IN THE MATERIAL STORAGE AREA

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THE FOLLOWING PRODUCT SPECIFIC PRACTICES WILL BE FOLLOWED ONSITE:

PETROLEUM PRODUCTS - ALL ONSITE VEHICLES WILL BE MONITORED FOR LEAKS AND RECEIVE REGULAR PREVENTIVE MAINTENANCE TO REDUCE THE CHANCE OF LEAKAGE, PETROLEUM PRODUCTS WILL BE STORED IN TIGHTLY SEALED CONTAINERS WHICH ARE CLEARLY LABELED, ANY ASPIALT SUBSTANCES USED ONSITE WILL BE APPLIED ACCORDING TO THE MANUFACTURERS RECOMMENDATION.

FUEL STORAGE TANKS SHALL BE LOCATED AWAY FROM SURFACE WATERS AND STORM SEWER SYSTEM INLETS. FUEL TANKS SHALL BE STORED IN A DIKED AREA CAPABLE OF HOLDING 150% OF THE TANK CAPACITY.

FERTILIZERS - FERTILIZERS USED WILL BE APPLIED ONLY IN THE MINIMUM AMOUNTS RECOMMENDED BY THE MANUFACTURER. ONCE APPLIED, FERTILIZER WILL BE WORKED INTO THE SOLI TO LIMIT EXPOSURE TO STORM WATER. STORM WHILE BE IN A COVERED SHED. THE CONTENTS OF ANY PARTIALLY USED BAGS OF FERTILIZER WILL BE TRANSFERRED TO A SEALABLE FLASTIC BIN TO AVOID SPILLS.

DUST CONTROL

DUST CONTROL INVOLVES PREVENTING OR REDUCING DUST FROM EXPOSED SOILS OR OTHER SOURCES DURING LAND DISTURBING, DEMOLITION AND CONSTRUCTION ACTIVITIES TO REDUCE THE PRESENCE OF AIRBORNE SUBSTANCES WHICH MAY PRESENT HEALTH HAZARDS, TRAFFIC SAFETY PROBLEMS OR HARM ANNIAL OR FLAVIT LIFE.

- 1. <u>VEGETATIVE COVER ANDMULCH</u> APPLY TEMPORARY OR PERMANENT SEEDING AND MULCH TO AREAS THAT WILL REMAIN IDLE FOR OVER 14 DAYS. SAVING EXISTING TREES AND LARGE SHRUBS WILL ALSO REDUCE SOIL AND AIR MOVEMENT ACROSS DISTURBED AREAS. SEE TEMPORARY SEEDING, PERMANENT SEEDING, MULCHING PRACTICES, AND TREE AND NATURAL AREA PROTECTION PRACTICES.
- WATERING SPRAY SITE WITH WATER UNTIL THE SURFACE IS WET BEFORE AND DURING GRADING AND REPEAT AS NEEDED, ESPECIALLY ON HAUL ROADS
 AND OTHER HEAVY TRAFFIC ROUTES, WATERING SHALL BE DONE AT A RATE THAT PREVENTS DUST BUT DOES NOT CAUSE SOIL EROSION. WETTING AGENT
- 3. SPRAY-ON ADHESIVES APPLY ADHESIVE ACCORDING TO THE FOLLOWING TABLE OR MANUFACTURERS' INSTRUCTIONS



SURVEYING

6305 Centre Park Dr. West Chester, OH 45069 513,779,7651

E-68774 NO. DATE

DIXON BAYCO 7280 UNION CENTRE BLVD.

SECTION 10 TOWN 2 BANGE 2 RTM WEST CHESTER TOWNSHIP BUTLER COUNTY, OH

PROJECT NO. 180242.001

SHEET NAME

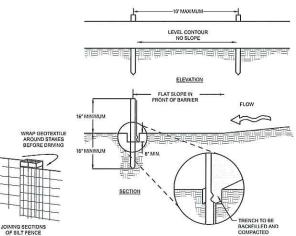
EROSION CONTROL NOTES



MECHANICAL PROPERTIES	TEST METHOD	UNITS	MARV
GRAB TENSILE STRENGTH	ASTM D 4632	KN (LBS)	1.62 (385) X 0.89 (200
GRAB TENSILE ELONGATION	ASTM D 4632	%	24 X 10
PUNCTURE STRENGTH	ASTM D 4833	KN (LBS)	0.40 (90)
MULLEN BURST STRENGTH	ASTM D 3788	KPA (PSI)	3097 (450)
TRAPEZOID TEAR STRENGTH	ASTM D 4533	KN (LBS)	0.51 (115) X 0.33 (75
UV RESISTENCE	ASTM D 4355	%	90
APPARENT OPENING SIZE	ASTM D 4751	MM (US STD SIEVE)	0.425 (40)
FLOW RATE	ASTM D 4491	1/MIN/M*(GAL/MIN/FT*)	5907 (145)
PERMITTIVITY	ASTM D 4491	SEC. ⁴	2.1

MAINTENANCE: REMOVE ALL ACCUMULATED SEDIMENT AND DEBRIS FROM SURFACE AND VICINITY OF UNIT AFTER EACH STORM EVENT, REMOVE SEDIMENT THAT HAS ACCUMULATED WITHIN THE CONTAINMENT AREA OF THE DANDY BAG AS NEEDED, IF USING OPTIONAL OIL ABSORBENTS: REMOVE AND BEPLIACE ABSORBENT PILLOW WITHIN NEAR SATURATION.





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- SILT FENCE SHALL BE CONSTRUCTED BEFORE UPSLOPE LAND DISTURBANCE BEGINS.
- 2. ALL SILT FENCE SHALL BE PLACED AS CLOSE TO THE CONTOUR AS POSSIBLE SO THAT WATER WILL NOT CONCENTRATE AT LOW POINTS IN THE FENCE AND SO THAT SMALL SYMLES ON DEPRESSIONS THAT MAY CARRY SMALL CONCENTRATED FLOWS TO THE SILT FENCE ARE DISSIPATED ALONG ITS LENGTH.
- ENDS OF THE SILT FENCES SHALL BE BROUGHT UPSLOPE SLIGHTLY SO THAT WATER PONDED BY THE SILT FENCE WILL BE PREVENTED FROM FLOWING AROUND THE ENDS.
- 4. SILT FENCE SHALL BE PLACED ON THE FLATTEST AREA

- THE SILT FENCE SHALL BE PLACED IN AN EXCAVATED OR SLICED TRENCH CUT A MINIMUM OF 8 INCHES DEEP. THE TRENCH SHALL BE MADE WITH A TRENCHER, CABLE LAYING MACHINE, SLICIND MACHINE, OR OTHER SUITABLE DEVICE THAT WILL ENSURE AN ADEQUATELY UNIFORM TRENCH DETRY.
- 8. THE SILT FENCE SHALL BE PLACED WITH THE STAKES ON THE DOWNSLOPE SIDE OF THE GEOTEMILE A NAMMAN OF 8 NICHES OF GEOTEMILE MAYS HE BELOW THE GROUND SUBFACE. EXCESS MATERIAL SHALL LAY ON THE BOTTOM OF THE 6-INCH DEEP TRENCH THE TRENCH SHALL BE BACKFILLED AND COMPACTED ON BOTH SIDES OF THE FABRIC.
- SEAMS BETWEEN SECTIONS OF SILT FENCE SHALL BE SPLICED TOGETHER ONLY AT A SUPPORT POST WITH A MINIMUM 8-IN. OVERLAP PRIOR TO DRIVING INTO THE GROUND.

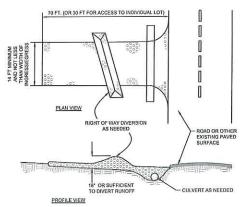
MAINTENANCE—SILT FENCE SHALL ALLOW RUNOFF TO PASS ONLY AS DIFFUSE FLOW THROUGH THE GEOTEXTILE IF RUNOFF AND AND ADDRESS OF THE FENCE FLORE, OR HIS WAY DIFFUSE AND ADDRESS OF THE FOLLOWING SIALL BE PERFORMED, AS A PROPORTALE 1) THE LAYOUT OF THE SILT FENCE SHALL BE CHANGED, 2) ACCUMINATED SEDMENT SHALL BE REMOVED, OR 3) OTHER PRACTICES SHALL BE

SILT FENCES SHALL BE INSPECTED AFTER EACH RAINFALL AND AT LEAST DAILY DURING A PROLONGED RAINFALL. THE LOCATION FEXTS HOS BULL TENCE SHALL BE REVIEWED DAILY TO ENSURE ITS PROPER LOCATION AND EFFECTIVENESS. IF DAMAGED, THE SILT FENCE SHALL BE REPARTED IMMEDIATELY.

FENCE POST - THE LENGTH SHALL BE A MINIMUM OF 32 INCHES, WOOD POSTS WILL BE 2-8V-2-IN, NOMINAL DIMENSIONED HARDWOOD OF SOUND QUALITY. THEY SHALL BE FREE OF KNOTS, STITES AND OTHER VISIBLE IMPERFECTIONS, THAT VILL WEAKEN'T THE POSTS. THE MAXIMUM SPACING BETWEEN POSTS SHALL BE 10 FT, POSTS SHALL BE DRIVEN A MAMIMUM IS INCHES INTO THE GROUND, WHERE POSSIBLE, THE POSTS SHALL BE ADDUATELY SECURED TO PREVENT OVERTWINNING OF THE FRICE DUE TO

FABRIC PROPERTIES	VALUES	TEST METHOD
MINIMUM TENSILE STRENGTH	120 LBS. (535 N)	ASTM D 4632
MAXIMUM ELONGATION AT 60 LBS	50%	ASTM D 4632
MINIMUM PUNCTURE STRENGTH	50 LBS. (220 N)	ASTM D 4833
MINIMUM TEAR STRENGTH	40 LBS, (180 N)	ASTM D 4533
APPARENT OPENING SIZE	<0.84 MM	ASTM D 4751
MINIMUM PERMITTIVITY	1X10-2 SEC-1	ASTM D 4491
IV EXPOSURE STRENGTH RETENTION	70%	ASTM G 4355



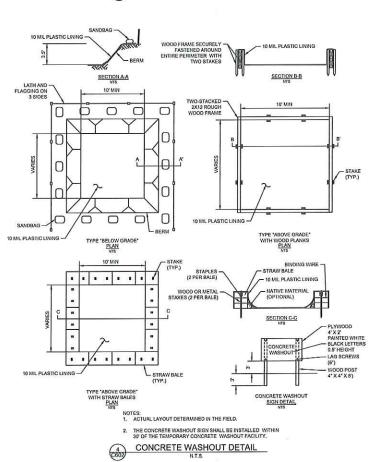


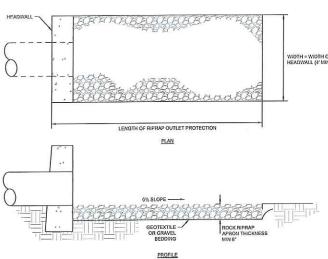
- STONE SIZE ODOT #2 (1.5-2.5 INCH) STONE SHALL BE USED, OR RECYCLED CONCRETE EQUIVALENT.
- 2. LENGTH THE CONSTRUCTION ENTRANCE SHALL BE AS LONG AS REQUIRED TO STABILIZE HIGH TRAFFIC AREAS BUT NOT LESS THAN 70 FT. (EXCEPTION: APPLY 30 FT. MINIMUM TO SINGLE RESIDENCE LOTS).
- THICKNESS THE STONE LAYER SHALL BE AT LEAST 6 INCHES THICK FOR LIGHT DUTY ENTRANCES OR AT LEAST 10 INCHES FOR HEAVY DUTY USE.

MINIMUM TENSILE STRENGTH	200 LBS
MINIMUM PUNCTURE STRENGTH	
MINIMUM TEAR STRENGTH	50 LBS
MINIMUM BURST STRENGTH	320 PSI
MINIMUM ELONGATION	20%
EQUIVALENT OPENING SIZE	EOS< 0.6MM
PERMITTIVITY	1X10 CM/SEC

- MAINTENANCE THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOW OF MUD ONTO PUBLIC REPRESENTATIONS. STORE OR THE WASHING AND DEESSING WITH ADDITIONAL STONE OR THE WASHING AND DEESSING WITH ADDITIONAL STONE OR THE WASHING AND DEESSING WITH ADDITIONAL STONE OR THE WASHING AND DEED ON THE WASHING DEED ON THE WASHING AND DEED ON THE WASHING AND DEED ON THE WA TRACKED FROM VEHICLES ONTO ROAD/WAYS OR INTO STORM DRAWS MUST BE REMOVED BINEDIATELY. THE USE OF WATER TRUCKS TO REMOVE MATERIALS DROPPED, WASHED, OR TRACKED ONTO ROAD/WAYS WILL NOT BE PERMITTED UNDER ANY CIRCUMSTANCES. TOP DRESSING OF ADDITIONAL STOVE SHALL BE APPLIED AS CONDITIONS DEAWNO, MUST SHALL BE APPLIED AS CONDITIONS DEAVNO, MUST SHALL BE APPLIED AS CONDITIONS DEAVNO, MUST PROPERLY DEAVNO AS A SHALL BE APPLIED AS CONDITIONS DEAVNO, MUST PROPERLY DEAVNO AS A SHALL BE APPLIED AS CONDITIONS DEAVNO, MUST PROPERLY DEAVNO AS A SHALL BE APPLIED AS CONDITIONS DEAVNO, MUST PROPERLY DEAVNO AS A SHALL BE APPLIED AS CONDITIONS DEAVNO, MUST PROPERLY DEAVNO AS A SHALL BE APPLIED AS CONDITIONS DEAVNO, MUST PROPERLY DEAVNO AS A SHALL BE APPLIED AS CONDITIONS DEAVNO, MUST PROPERLY DEAVNO AS A SHALL BE APPLIED AS CONDITIONS DEAVNO, MUST PROPERLY DEAVNO AS A SHALL BE APPLIED AS CONDITIONS DEAVNO, MUST PROPERLY DEAVNO AS A SHALL BE APPLIED AS A SHALL BE AS A
- REMOVAL THE ENTRANCE SHALL REMAIN IN PLACE UNTIL THE DISTURBED AREA IS STABILIZED OR REPLACED WITH A PERMANENT ROADWAY OR ENTRANCE.

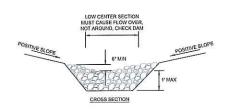
CONSTRUCTION ENTRANCE DETAIL N.T.S.

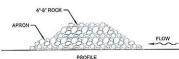




- SUBGRADE FOR THE FILTER OR BEDDING AND RIPRAP SHALL BE PREPARED TO THE REQUIRED LINES AND GRADES AS SHOWN ON THE FLAN. THE SUBGRADE SHALL BE CLEARED OF ALL TREES, STUMPS, ROOTS, SOD, LOOSE ROCK, OR OTHER MATERIAL.
- 2. RIPRAP SHALL CONFORM TO THE GRADING LIMITS AS SHOWN ON THE PLAN.
- 3. GEOTEXTILE SHALL BE SECURELY ANCHORED ACCORDING TO MANUFACTURERS' RECOMMENDATIONS.
- GEOTEXTILE SHALL BE LAID WITH THE LONG DIMENSION PARALLEL TO THE DIRECTION OF FLOW AND SHALL BE LAID LOOSELY BUT WITHOUT WINNALES AND CREASES, WHERE JONTS ARE NECESSARY, STRIPS SHALL BE PLACED TO PROVIDE A 12-IN. MINIMUM OVERLAP, WITH THE UPSTREAM STRIP OVERLAPPING THE DOWNSTREAM STRIP.
- 5. GRAVEL BEDDING SHALL BE ODOT NO. 67'S OR 57'S UNLESS SHOWN DIFFERENTLY ON THE DRAWINGS
- 6. RIPRAP MAY BE PLACED BY EQUIPMENT BUT SHALL BE PLACED IN A MANNER TO PREVENT SLIPPAGE OR DAMAGE TO THE GEOTEXTILE.
- RIPRAP SHALL BE PLACED BY A METHOD THAT DOES NOT CAUSE SEGREGATION OF SIZES, EXTENSIVE PUSISING WITH A DOZER CAUSES SEGREGATION AND SHALL BE AVOIDED BY DELIVERING RIPRAP NEAR ITS FINAL LOCATION WITHIN THE CHAINEL.
- CONSTRUCTION SHALL BE SEQUENCED SO THAT OUTLET PROTECTION IS PLACED AND FUNCTIONAL WHEN THE STORM DRAIN, CULVERT, OR OPEN CHANNEL ABOVE IT BECOMES OPERATIONAL.
- 9. ALL DISTURBED AREAS WILL BE VEGETATED AS SOON AS PRACTICAL.







- 2. MAXIMUM HEIGHT OF CHECK DAM SHALL NOT EXCEED 1.0 FEET
- THE MIDPOINT OF THE ROCK CHECK 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.

- 6. A SPLASH APROLISHALL BE CONSTRUCTED WHERE CHECK DAMS APE EXPECTED TO BE IN USEFOR AN I SETTINGED PERIOD OF TIME, A STONE APRONISHALL BE CONSTRUCTED IMMEDIATELY DOWNSTREAM OF THE GREEK DAM TO PREVENT FLOWS FROM UNDERCUTTING THE STRUCTURE. THE APRONISHOULD BE 6 IN, THICK AND ITS ENEMT HOW 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.

SEDIMENT SHALL BE REMOVED FROM BEHIND CHECK DAM ONCE IT ACCUMULATES TO ONE-HALF THE ORIGINAL HEIGHT OF THE CHECK DAM.







LANDSCAPE ARCHITECTURE



DIXON BAYCO 7280 UNION CENTRE BLVD.

WEST CHESTER TOWNSHIP BUTLER COUNTY, OH

ROJECT NO: 180242.001 08/21/2018

EROSION CONTROL DETAILS