# PROJECT NARRATIVE

PROPOSED CONSTRUCTION OF A BURGER KING RESTAURANT ON A VACANT 2.287 ACRES LOT.

# **BENCHMARKS**

ALL BENCH MARKS AND ELEVATIONS SHOWN UPON THIS PLAN ARE BASED ON THE (NAVD 88) NORTH AMERICAN VERTICAL DATUM OF 2011 (U.S. SURVEY FEET):

BENCHMARK — 1 NOTCH SET ON THE SOUTHWEST CORNER OF A 2'x2' CATCH BASIN, 11 FEET FROM THE EAST EDGE OF PAVEMENT, AS SHOWN ON PLAN.

ELEV = 757.72 NORTHING = 5223222.58 EASTING = 1411650.75

BENCHMARK  $^-$  2 1/2 INCH IRON PIPE & CAP, 44 FEET NORTH OF A SANITARY MANHOLE, 15 FEET FROM THE EAST EDGE OF PAVEMENT, AS SHOWN ON PLAN.

ELEV = 758.76 NORTHING = 522175.71 EASTING = 1411701.96

# UTILITY CONTACTS

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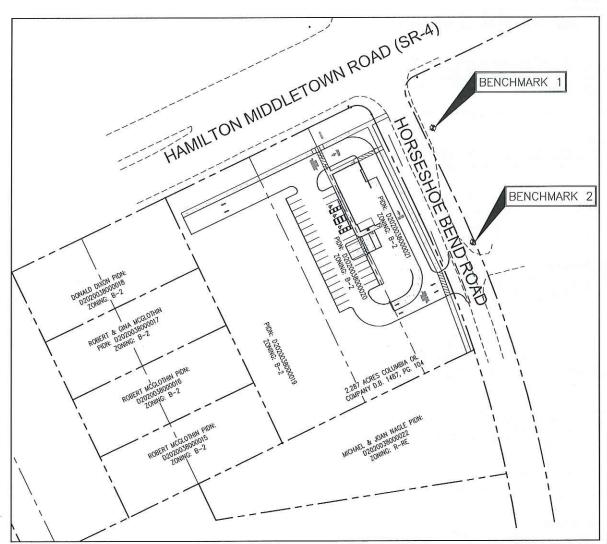
STORM SEWER
BUTLER COUNTY ENGINEERS OFFICE
1921 FAIRGROVE AVE.
HAMILTON, OHIO 45011
DALE SCHWEITERMAN, P.E.
PH. 513.785.4110



# SITE CONSTRUCTION DRAWINGS

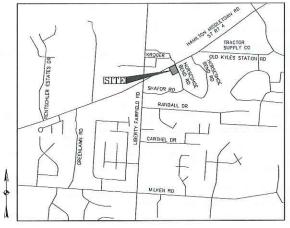
# **BURGER KING**

HORSESHOE BEND ROAD LIBERTY TWP, BUTLER COUNTY, OHIO 2018





STANDARD DRAWINGS			
BUTLER COUNTY			
HW-4	4025		
MH-3	5170		
C-8	5280		
C-10	6110		
	6120		
	6270		
	6340		



# LOCATION MAP

# **DEVELOPER:**

CARROLS CORPORATION 968 JAMES STREET SYRACUSE, NY 13203 CONTACT: AMANDA ALDRIDGE PHONE: 901.515.6865

# OWNER:

THE COLUMBIA OIL COMPANY
4951 HAMILTON MIDDLETOWN ROAD
HAMILTON, OH 45011
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**ENGINEER** 



EMAIL ADDRESS:

CONTACT: STEVEN E. FOX, P.E. 1160 DUBLIN ROAD, SUITE 100 COLUMBUS, OH 43215-1052 (614) 441-4222 SFOX@MANNIKSMITHGROUP.COM

OHIO REGISTERED PROFESSIONAL ENGINEER



CARROLS

BURGER KING HORSESHOE BEND RD. LIBERTY TWP, OHIO

SHEET COVER

ALL CONSTRUCTION SHALL CONFORM TO THE BUTLER COUNTY SUBDIVISION REGULATIONS AND TO THE LATEST EDITION OF THE THE OHIO DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND MATERIAL SPECIFICATIONS AND ALL REVISIONS THERETO

EARTHWORK-GENERAL
DETERMINATION OF SITE EARTHWORK EXCAVATION AND EMBANKMENT QUANTITIES SHALL BE IN ACCORDANCE WITH THE FOLLOWING CRITERIA:

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SUITABILITY OF SOILS TO BE USED AS EMBANKMENTS FOR PARKING LOTS, BUILDING PADS, ETC.

STOCKPILING OF TOPSOIL AND/OR EXCESS MATERIAL FOR THESE IMPROVEMENTS OR OFFSITE HAULING OF TOPSOIL/SUITABLE MATERIAL, ETC. SHALL BE COORDINATED WITH THE OWNER. APPROPRIATE MEANS FOR SEDIMENTATION CONTROL OF THE ONSITE STOCKPILES SHALL BE PROVIDED AS A MATTER OF GENERAL PRACTICE IN ACCORDANCE WITH THE REQUIRED STANDARDS REFERENCED AS A PART OF THE SEDIMENT AND EROSION DETAILS, IT IS THE CONTRACTORS RESPONSIBILITY TO ASSURE THAT A SUFFICIENT AMOUNT OF TOPSOIL REMAINS SO THAT ANY LANDSCAPING AND LANDSCAPE MOUNDING CAN BE COMPLETED.

SURFACE GRADING TOLERANCE FOR HARD SURFACE AREAS (PARKING LOTS, ROADWAYS, DRIVES, CURBS, ETC.) SHALL NOT DEVIATE MORE THAN 0.1' AT PROPOSED SUBGRADE SURFACE. LANDSCAPE GRADING TOLERANCE SHALL NOT DEVIATE MORE THAN 0.3' FROM PROPOSED SURFACE ELEVATION.

GENERAL SITE EARTHWORK OPERATIONS (PREPARATION OF PAVEMENT SUBGRADES, ETC.) ALONG WITH REQUIREMENT STANDARDS (COMPACTION, PROOFROLLING, ETC.) SHALL BE IN ACCORDANCE WITH THE SOILS REPORT. COPIES OF THE SOILS REPORT SHOULD BE OBTAINED FROM THE OWNER OR OWNER'S REPRESENTATIVE.

ALL EARTHWORK OPERATIONS SHALL BE OBSERVED AND TESTED BY THE SITE SOILS ENGINEER EMPLOYED AND PAID FOR BY THE OWNER. ADDITIONALLY, ALL FINAL GRADES SHALL BE FIELD CHECKED BY AN AGENT OF THE OWNER UPON COMPLETION OF CONTRACTOR'S OPERATIONS TO DETERMINE IF THE SITE HAS BEEN CONSTRUCTED TO THE GRADES

TEMPORARY AND/OR PERMANENT SEEDING WITHIN THE DESIGNATED WORK LIMITS SHALL BE PERFORMED AT THE DIRECTION OF THE OWNER IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. REQUIREMENTS FOR SEEDING MIX, RATE OF APPLICATION, ETC. SHALL AS SHOWN ON THE ANDSCAPE PLAN

## NON-RUBBER TIRED VEHICLES

NON-RUBBER TIRED VEHICLES SHALL NOT BE MOVED ON PUBLIC STREETS, EXISTING PRIVATE ROADWAYS OR PARKING LOTS. NO EXCEPTIONS SHALL BE GRANTED.

THE CONTRACTOR IS TO OBTAIN ALL NECESSARY PERMITS. AN ORIGINAL PERMIT WITH SIGNATURES SHALL BE KEPT ONSITE AT ALL TIMES.

THE CONTRACTOR SHALL PERFORM FIELD RECONNAISSANCE TO BECOME ACQUAINTED WITH THE EXISTING SITE CONDITIONS AND THE POTENTIAL AFFECTS UPON THE WORK SCOPE. ANY PERFORMANCE OF ADDITIONAL SITE SUBSURFACE INVESTIGATIONS (TEST HOLES) SHALL BE COORDINATED IN ADVANCE WITH THE OWNER AS WARRANTED. EXCAVATED MATERIAL SHALL BE REPLACED IN A CONTROLLED MANNER TO MINIMIZE IMPACT ON FIELD EARTHWORK OPERATIONS.

# TRENCHES

ALL TRENCHES THAT CROSS PAVEMENT OR WHERE THE FRONT FACE OF TRENCHES, PARALLELING THE PAVEMENT IS WITHIN 24" OF THE FACE OF CURB OR EDGE OF PAVEMENT SHALL BE BACKFILLED WITH COMPACTED GRANULAR MATERIAL AS PER ITEM 304. THE MATERIAL SHALL EXTEND LATERALLY 36" BEYOND FACE OF CURB OR EDGE OF PAVEMENT, OTHER AREAS OUTSIDE ABOVE REQUIREMENT SHALL BE COMPACTED AS PER ODOT ITEM 611 (STORM SEWER), ODOT ITEM 638 (WATER MAIN).

## STORAGE OF EQUIPMENT AND MATERIALS

NO MATERIALS OR EQUIPMENT SHALL BE STORED WITHIN THE RIGHT-OF-WAY OR WITHIN ONE HUNDRED (100) FEET OF ANY INTERSECTING STREET OR DRIVEWAY, COMPLIANCE WITH THESE REQUIREMENTS ALONG WITH ADDITIONAL PROVISIONS OF THE CONTRACT SPECIFICATIONS SHALL NOT IN ANY WAY RELIEVE THE CONTRACTOR OF HIS LEGAL RESPONSIBILITIES OR LIBBILITIES FOR THE SAFETY OF THE PUBLIC. THE CONTRACTOR SHALL INDICATE HIS INTENT WITH REGARD TO STORAGE AT THE PRECONSTRUCTION MEETING

# SITE UTILITIES

CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE ROUTING OF THE PROPOSED PRIVATE UTILITY SERVICES, THE ROUTING OF THE PROPOSED PRIVATE UTILITY SERVICES SHALL BE ADJUSTED IN THE FIELD AS NEEDED TO AVOID CONFLICTS WITH EXISTING UTILITIES AND FACH

CONTRACTOR SHALL COORDINATE THE FINAL LOCATIONS OF THE PRIVATE UTILITY SERVICE CONNECTION POINTS AT THE BUILDING PERIMETER WITH THE MOST CURRENT APPROVED BUILDING MECHANICAL SYSTEM DRAWINGS. THE ROUTING OF THE PRIVATE UTILITY SERVICES SHALL BE FIELD ADJUSTED AS NEEDED TO MEET THE PROPOSED CONNECTION POINTS.

## ROOF DRAINS

CONTRACTOR TO USE P.V.C. SEWER PIPE IN ACCORDANCE WITH ASTM D3034 AND WITH ODOT 720 WITH JOINTS PER ASTM D3212 FOR ROOF DRAIN PIPE. REFERENCE MECHANICAL, ELECTRICAL AND PLUMBING PLANS FOR SIZES OF ROOF DRAINS.

ALL PIPE FITTINGS FOR THE ROOF DRAINS ARE TO BE INCLUDED IN THE UNIT PRICE BID FOR ITEM SPEC. ROOF DRAINS, COMPLETE; UP TO 5' FROM THE BUILDING.

ALL BEDDING FOR ROOF DRAIN PIPE SHALL BE IN ACCORDANCE WITH ODOT 603.06 (TYPE 2 BEDDING).

ROOF DRAINS SHALL BE INSTALLED PER THE SLOPE DESIGNATED IN THE PLANS, IF SLOPE IS NOT DESIGNATED ON THE PLANS ROOF DRAINS SHALL BE INSTALLED AT A 1.00% MINIMUM SLOPE.

#### GRADING NOTES

ALL EROSION AND SEDIMENTATION CONTROL PRACTICES ARE SUBJECT TO FIELD MODIFICATIONS AT THE DISCRETION OF THE BUTLER COUNTY ENGINEER, PROJECT ENGINEER AND/OR THE OHIO EPA.

THE GENERAL CONTRACTOR IS RESPONSIBLE FOR PROVIDING EARTHWORK CALCULATIONS AND INCLUDING THE NECESSARY IMPORTING OR EXPORTING OF SOIL IN THE BASE BID.

ALL FILL PLACED FOR BUILDING PADS SHALL BE DONE SO IN ACCORDANCE WITH AND UNDER THE OBSERVATION OF A REGISTERED SOILS ENGINEER.

THE CONTRACTOR SHALL BE RESPONSIBLE TO EMPLOY THE SERVICES OF A REGISTERED SOILS ENGINEER TO INSURE THE SUBGRADE HAS BEEN COMPACTED IN ACCORDANCE WITH ODOT ITEM 203 AND THE RECOMMENDATIONS OF THE SOILS ENGINEER

BACKFILL OF UTILITY TRENCHES SHALL CONFORM TO THE SPECIFICATIONS, AS DELINEATED ON THE SEWER PROFILES.

### RESTORATION AND CLEAN UP

INCONVENIENCE TO THE ADJACENT PROPERTY OWNERS AND TO THE TRAVELING PUBLIC SHALL BE KEPT TO AN ABSOLUTE MINIMUM. ALL WORK IS TO CONTINUE ON A UNIFORM BASIS AND ON SCHEDULE, PARTICULARLY THE RESTORATION AND CLEAN UP OF DISTURBED AREAS AFTER

ALL FENCES, SIGNS, DRAINAGE STRUCTURES, VALVES, LANDSCAPING, ETC. REMOVED, DISTURBED OR DAMAGED DURING WORK WITHIN PUBLIC RIGHT-OF-WAYS, EASEMENT AREAS AND/OR UNDER THE PROJECT IMPROVEMENTS SHALL BE RESTORED TO THEIR ORIGINAL CONDITION BY THE CONTRACTOR UNLESS OTHERWISE SPECIFIED.

PAYMENT FOR SAME SHALL BE INCLUDED IN THE PRICE BID FOR SITE

### CONVENIENCE FACILITIES

THE CONTRACTOR SHALL FURNISH AND MAINTAIN SANITARY CONVENIENCE FACILITIES FOR THE WORKMEN AND INSPECTORS FOR THE DURATION OF THE WORK, COST SHALL BE INCLUDED IN THE PRICE BID MOBILIZATION.

### DUST CONTROL

THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING DUST CONTROL MEASURES IN ACCORDANCE WITH ODOT ITEM 616 DUST CONTROL MEASONES IN ACCORDANCE WITH USIT THEM BY A DEPICION SHALL BE PERFORMED ON A PERIODIC BASIS AND/OR AS DIRECTED BY THE OWNER OR ENGINEER TO ALLEVIATE OR PREVENT THE DUST NUISANCE ORIGINATING WITHIN THE PROJECT WORK LIMITS. CALCIUM CHLORIDE ON AREAS TO BE SEEDED AND MULCHED WILL NOT BE

# BUILDING/SITE UTILITY CONNECTIONS

THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH THE ARCHITECT AND THE MECHANICAL ENGINEER FOR THE FINAL LOCATION OF UTILITY SERVICES INTO THE BUILDING AND ANY CONNECTIONS APPURTENANCES NECESSARY BETWEEN THE BUILDING AND SITE UTILITY

# RIGHTS-OF-WAY

IN ADDITION TO DIRECT REQUIREMENTS OF THE CONTRACT SPECIFICATIONS, THE CONTRACTOR SHALL OBSERVE AND CONFORM TO THE SPECIFIC REQUIREMENTS OF ALL RIGHTS-OF-WAY, INCLUDING EASEMENTS, COURT ENTRIES, RIGHTS-OF-ENTRY, OR ACTION FILED IN COURT IN ACCORDANCE WITH THE CODE OF APPLICABLE GOVERNING ACENCY. THE COST OF THE OPERATIONS NECESSARY TO FULFILL SUCH REQUIREMENTS SHALL BE INCLUDED IN THE PRICE BID FOR THE STORM SEWER IMPROVEMENT.

# EXISTING UTILITIES

WHERE POTENTIAL GRADE CONFLICTS MIGHT OCCUR WITH EXISTING UTILITIES AND AT LOCATIONS NOTED THUS, THE CONTRACTOR WILL BE REQUIRED TO UNCOVER SUCH UTILITIES SUFFICIENTLY IN ADVANCE OF LAYING PIPE OR DUCT AND PROVIDE THE ENGINEER THE LOCATION AND ELEVATION OF SAID UTILITY SO THEY CAN DETERMINE IF ANY ADJUSTMENTS ARE NECESSARY

THE NOTIFICATION OF AFFECTED UTILITY OWNERS IN ADVANCE OF THE MOTIFICATION AND EXACT LOCATION AND PROTECTION OF UTILITIES ARE THE RESPONSIBILITY OF THE CONTRACTOR. IF DAMAGE IS CAUSED, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR OF THE SAME AND FOR ANY RESULTING CONTINGENT DAMAGE.

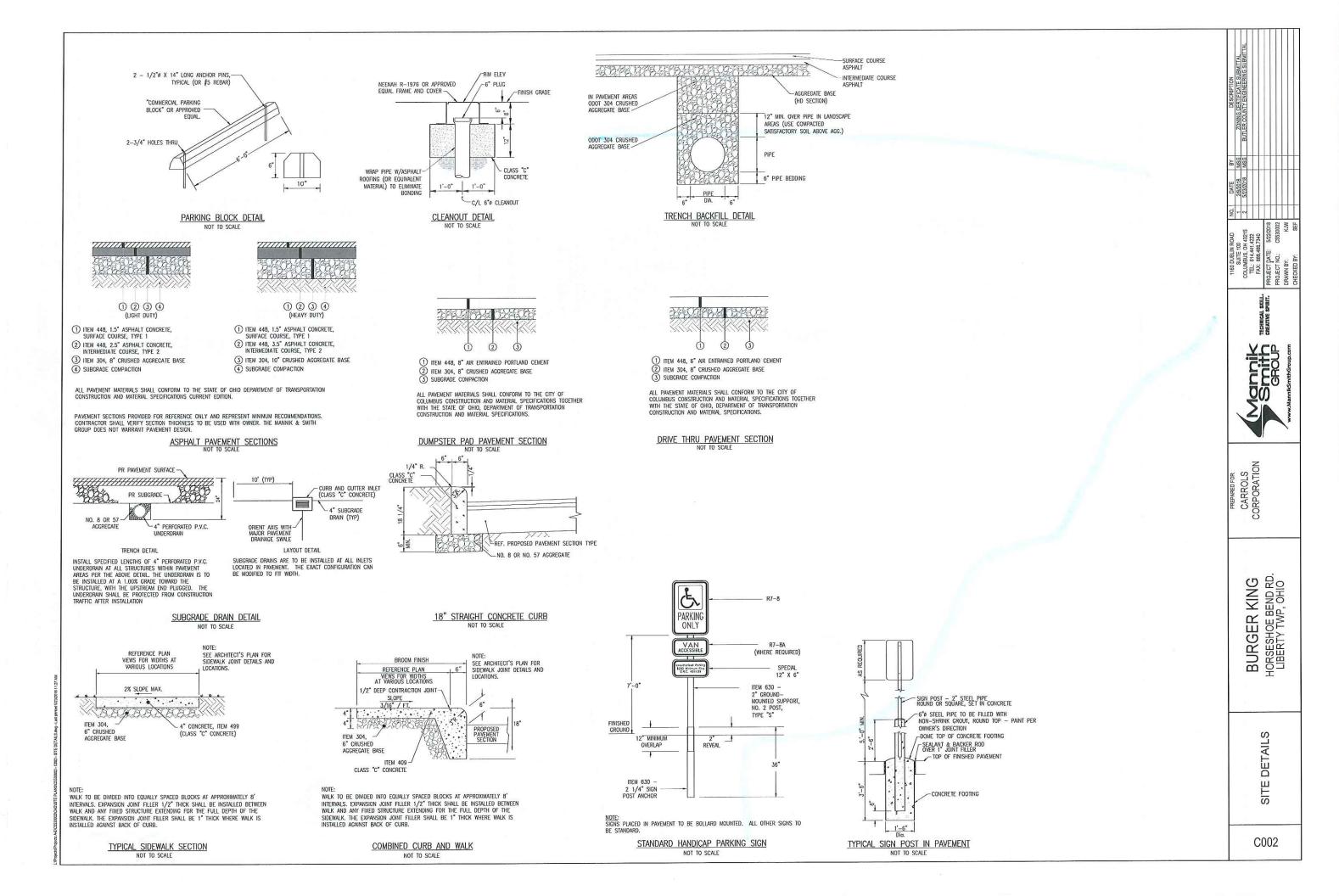
# MISCELLANEOUS CONSTRUCTION NOTES

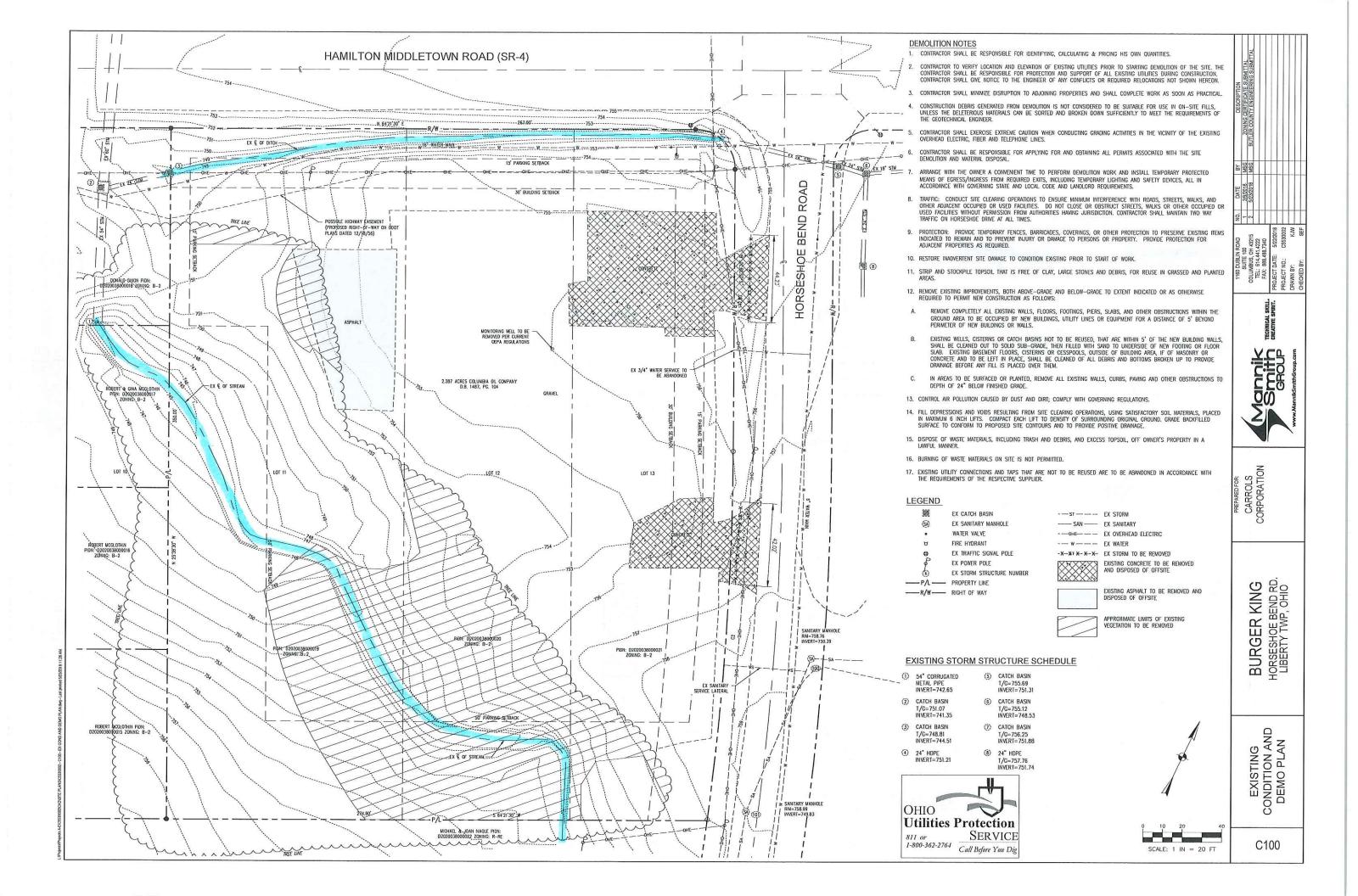
THE CONTRACTOR SHALL CAREFULLY PRESERVE BENCH MARKS, PROPERTY CORNERS, REFERENCE POINTS, STAKES AND OTHER SURVEY REFERENCE MONUMENTS OR MARKERS. IN CASES OF WILLFUL OR CARELESS DESTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE RESTORATIONS. RESETTING OF MARKERS SHALL BE PERFORMED BY AN OHIO PROFESSIONAL SURVEYOR AS APPROVED BY THE COUNTY ENGINEER.

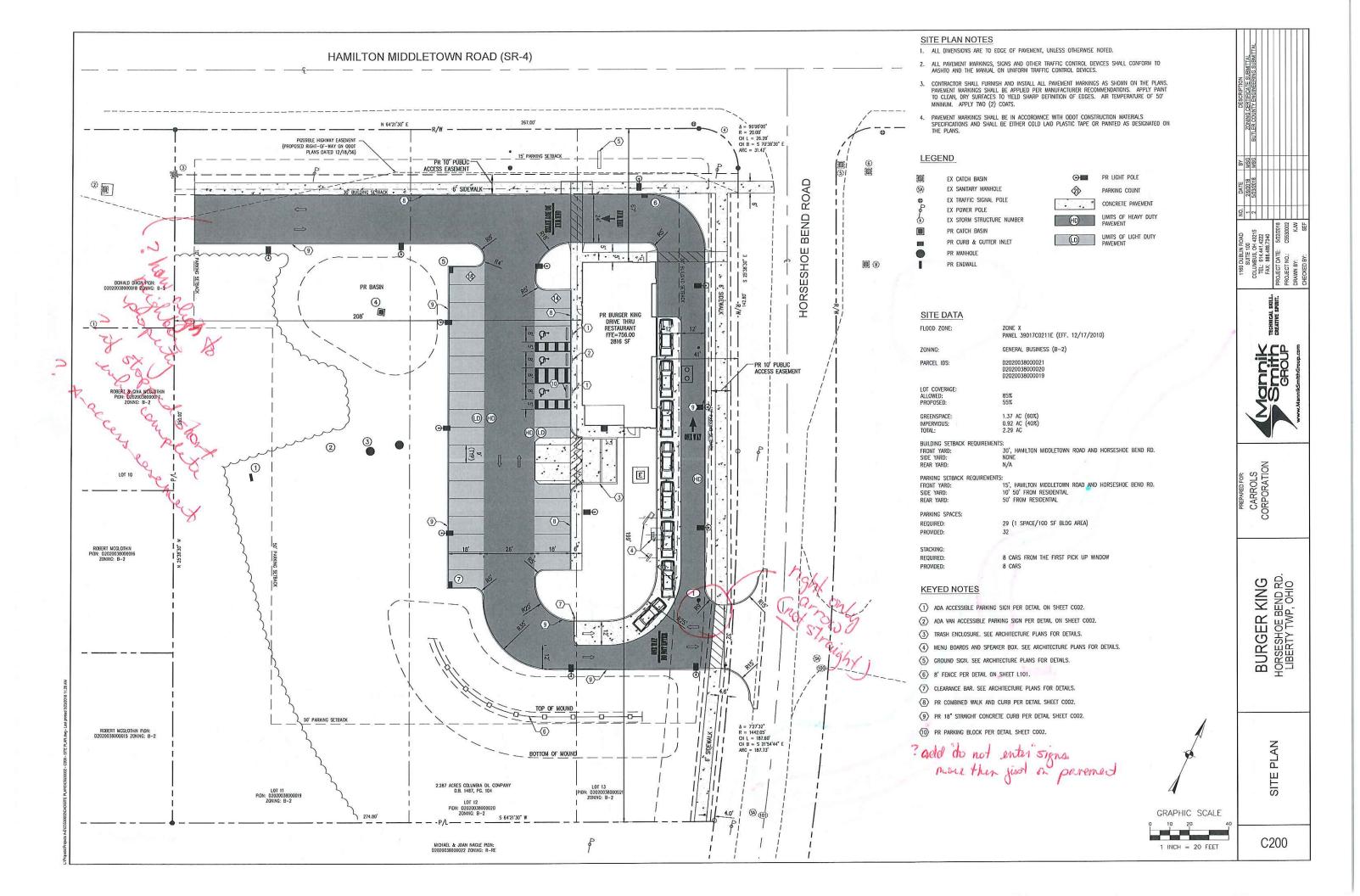
4321 1160 DUBLIN SUITE 11 COLUMBUS, O TEL: 614.44 FAX: 888.48 PROJECT DATE. PROJECT NO: DRAWN BY: CARROLS CORPORATION KING HORSESHOE BEND RD. LIBERTY TWP, OHIO ER RGI

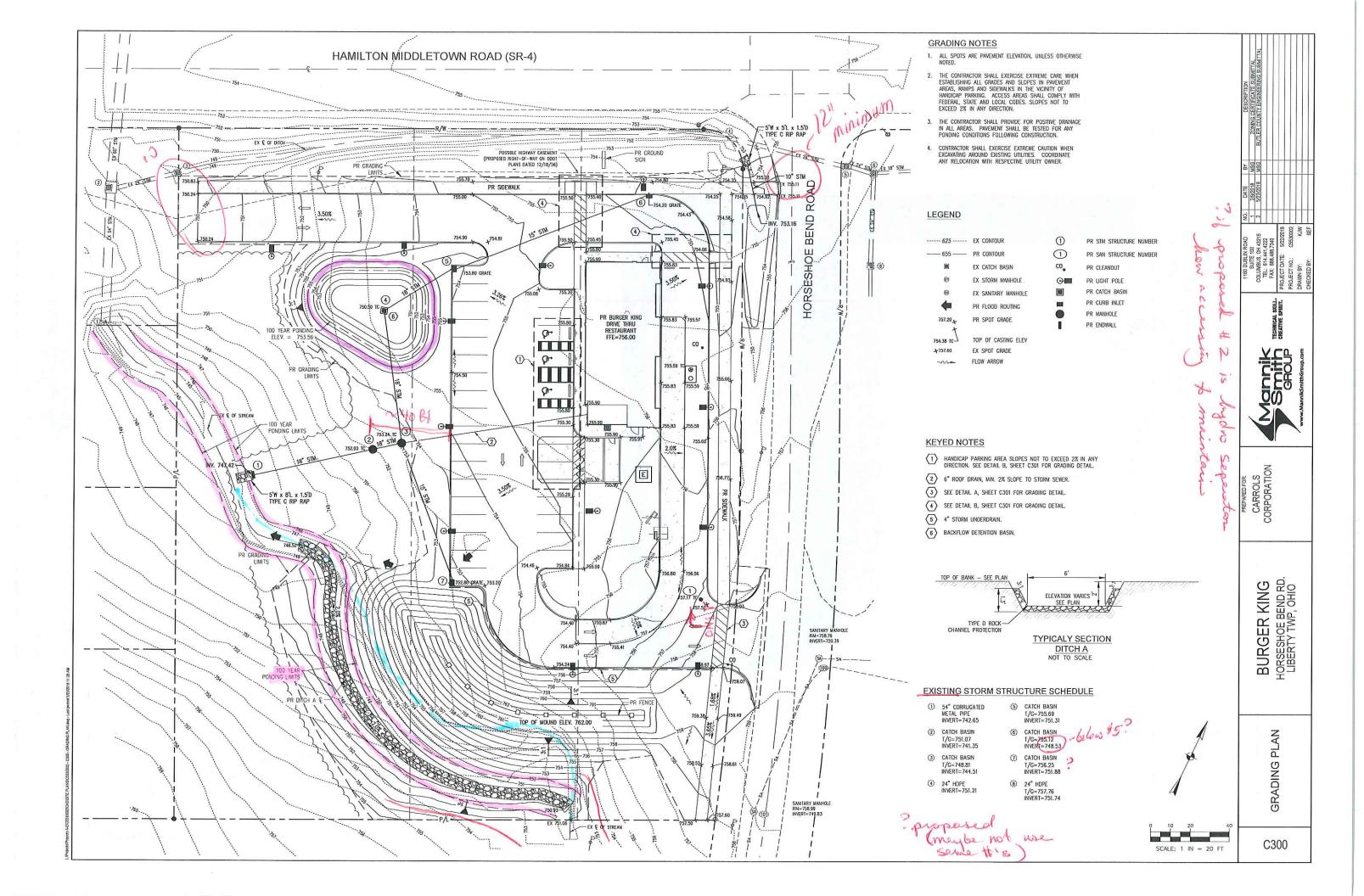
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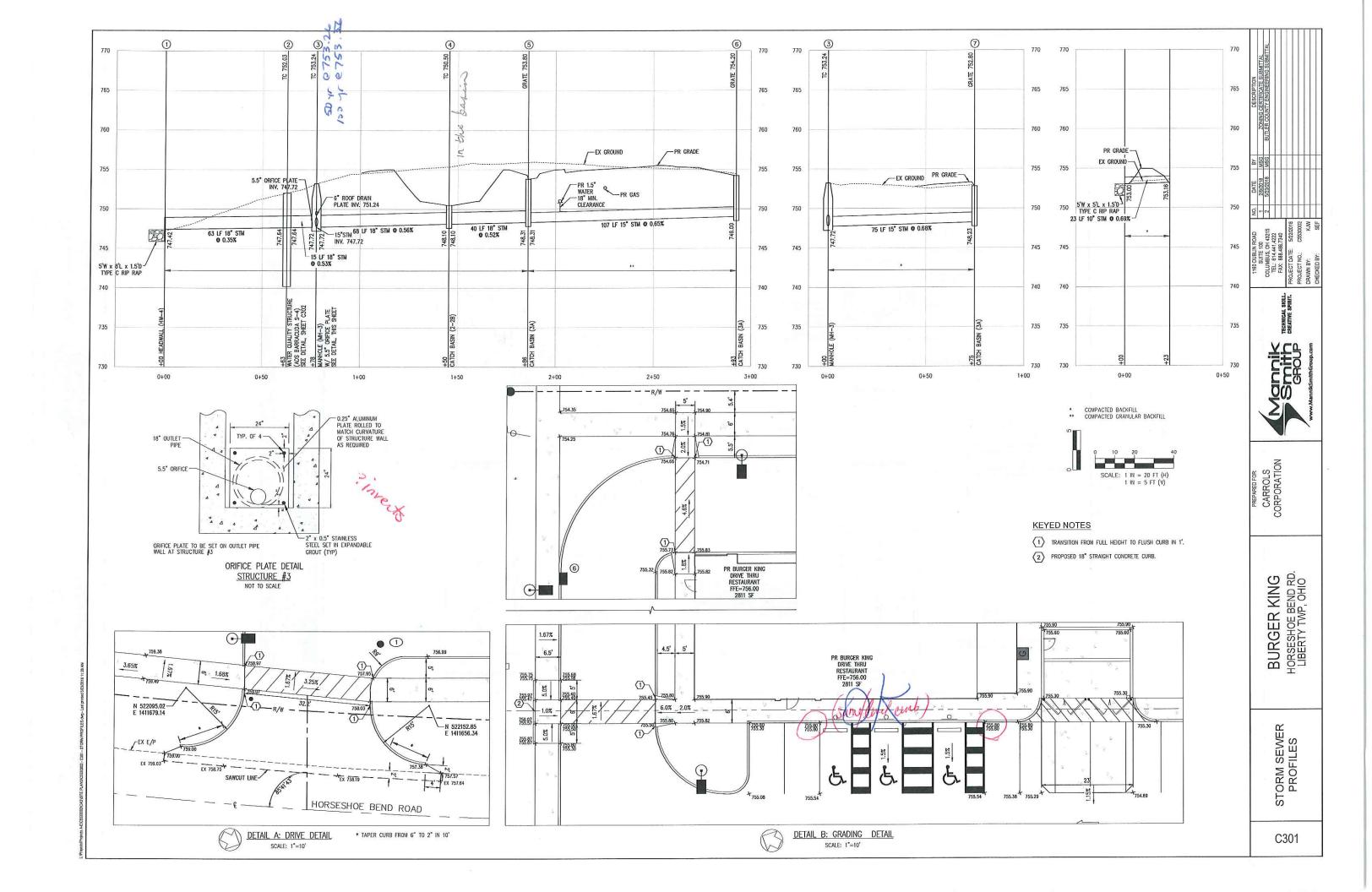
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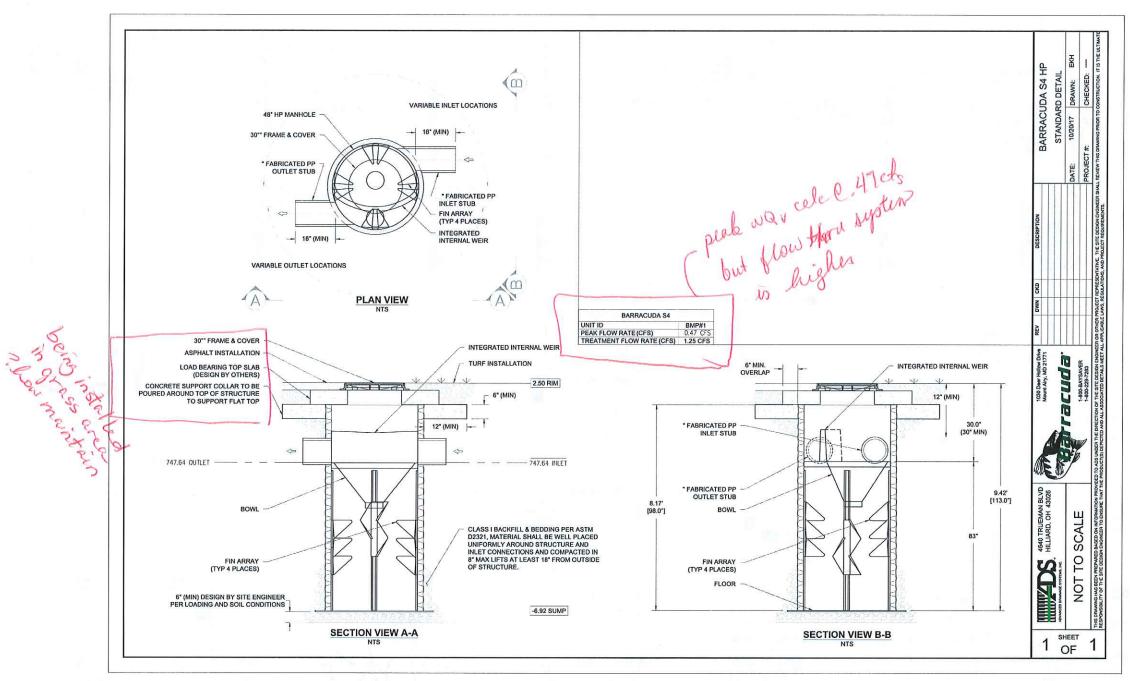








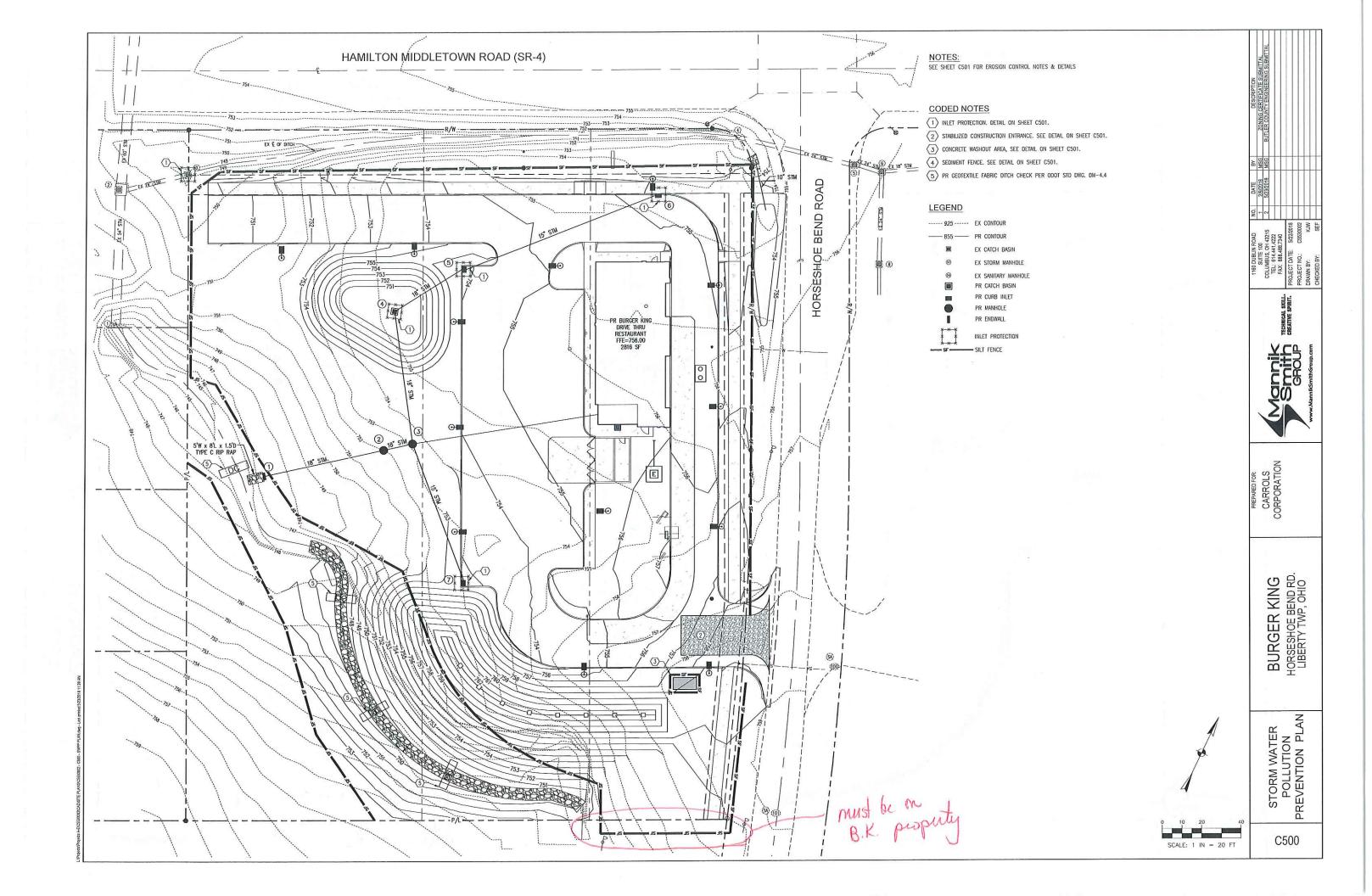


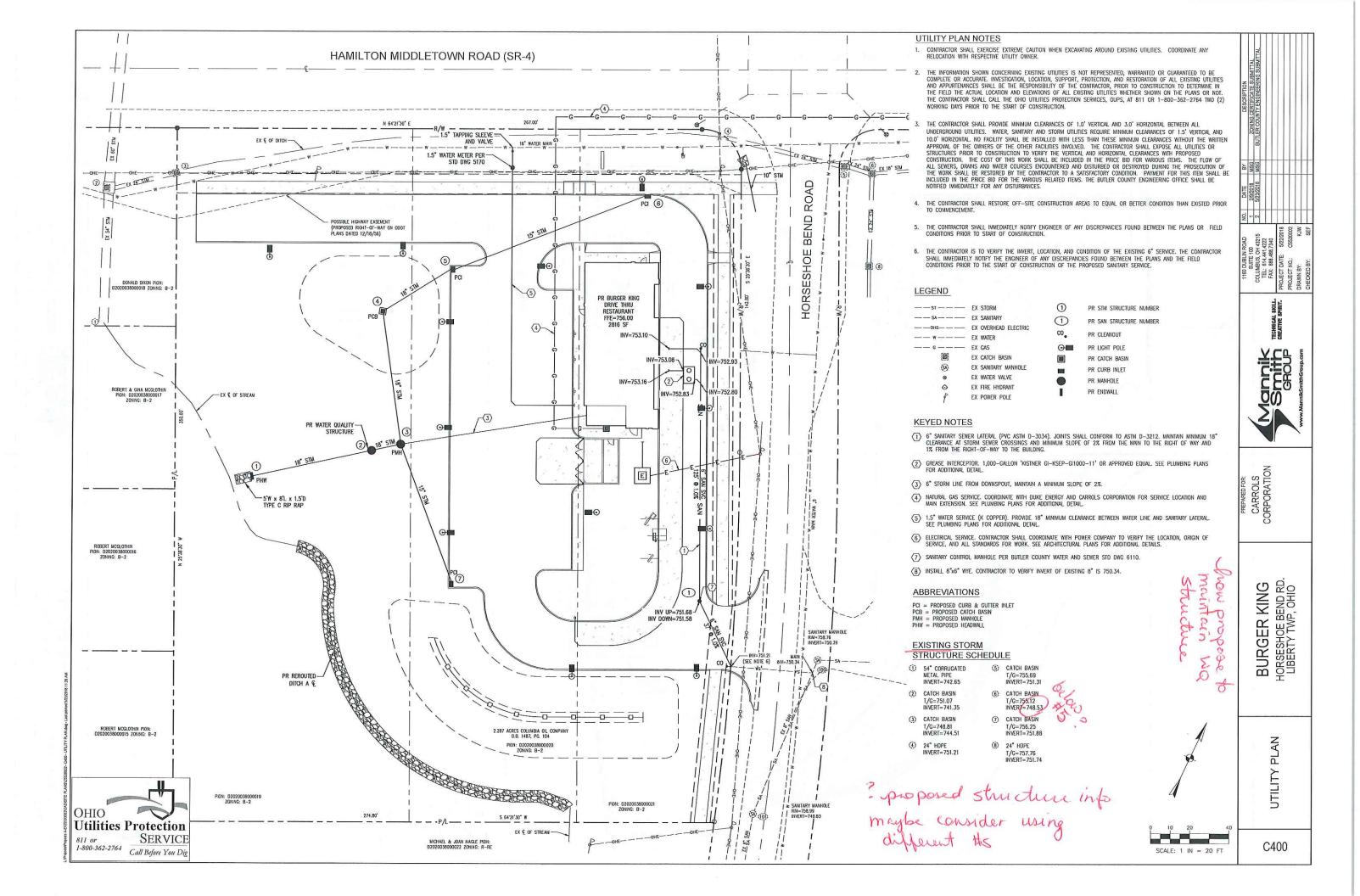


WATER QUALITY STRUCTURE DETAIL - STRUCTURE #2

CARROLS CORPORATION BURGER KING HORSESHOE BEND RD. LIBERTY TWP, OHIO

STORM DETAILS





# SITE DATA

- PROJECT DESCRIPTION PROPOSED CONSTRUCTION OF A RESTAURANT ON VACANT 2.287 ACRES LOT, LOCATED ON THE CORNER OF HAMILTON MIDDLETOWN ROAD AND HORSESHOE BEND ROAD IN LIBERTY TOWNSHIP, BUTLER COUNTY, OHIO. ASSOCIATED PARKING AND STORM WATER QUALITY/QUANTITY DETENTION PROVIDED ON SITE.
- 2. TOTAL SITE AREA: 2.29 ACRES

AREA WITHIN LIMITS OF CONSTRUCTION: ±1.61 AC

PERVIOUS: ±36,155 S.F. ±0.83 ACRES (51.6%) IMPERMOUS: ±33,977 S.F. ±0.78 ACRES (48.4%)

3. SOIL TYPES: MIAMIAN-RUSSELL SILT LOAM (MsC2), 6 TO 12% SLOPES, HSG C RUSSELL-MIAMIAM SILT LOAS (RvB2), 2 TO 6% SLOPES, HSG C

4. RUNOFF COEFFICIENT:
PRE-CONSTRUCTION: C = .55
POST-CONSTRUCTION: C = .71

SITE DRAINS TO: AN UNNAMED TRIBUTARY OF THE GREAT MIAMI RIVER.

GREAT MIAMI RIVER

7. OHIO EPA FACILITY NUMBER: TBD

8. OWNER & SITE CONTACTS: OWNER/DEVELOPER: CARROLS CORPORATION CONTACT: AMANDA ALDRIDGE PHONE: (901) 515-6865 EMAIL: AALDRIDGE@CARROLS.COM

9. SITE CONTRACTOR: TO BE DETERMINED

10. PLAN DESIGNER: THE MANNIK & SMITH GROUP 1160 DUBLIN RD, SUITE 100 COLUMBUS, OH 43215 CONTACT: STEVE FOX. PE PHONE: (614) 441-4222 EMAIL: SFOX@MANNIKSMITHGROUP.COM

# **EROSION CONTROL NOTES**

- ALL CONSTRUCTION METHODS AND MATERIALS MUST CONFORM TO CURRENT STANDARDS AND SPECIFICATIONS OF THE FEDERAL, STATE, COUNTY, CITY OR LOCAL REQUIREMENTS, WHICHEVER HAS JURISDICTION.
- 2. PER THE NPDES CONSTRUCTION GENERAL PERMIT OHCOODOO4, ALL CONTRACTORS AND SUBCONTRACTORS ARE REQUIRED BE THE OHIO EPA TO OBTAIN CO-PERMITS.
- 3. LAND ALTERATION WHICH STRIPS THE LAND OF VEGETATION, INCLUDING REGRADING, SHALL BE DONE IN A WAY THAT WILL MINIMIZE EROSION.
- 4. THIS PLAN SHALL NOT BE CONSIDERED ALL INCLUSIVE AS THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PREVENT SOIL SEDIMENT FROM LEAVING THE SITE. ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES WILL BE INSTALLED IF DEEMED NECESSARY BY ON-SITE INSPECTION.
- 5 SEDIMENT LADEN WATER SHALL BE DETAINED BY EROSION CONTROL PRACTICES AS NEEDED TO MINIMIZE SEDIMENTATION IN THE RECEIVING STREAM. NO STORM WATER SHALL BE DISCHARGED FROM THE SITE IN A MANNER THAT CAUSES EROSION AT THE POINT OF DISCHARGE.
- 6. WASTES AND UNUSED BUILDING MATERIALS SHALL NOT BE ALLOWED TO BE CARRIED FROM THE SITE BY STORM WATER RUNOFF. PROPER DISPOSAL OF ALL WASTES AND UNUSED BUILDING MATERIALS IS REQUIRED.
- SEDIMENT BEING TRACKED ONTO PUBLIC OR PRIVATE ROADWAYS SHALL BE MINIMIZED. CLEARING OF ACCUMULATED SEDIMENT SHALL NOT INCLUDE FLUSHING WITH WATER. CLEARED SEDIMENT SHALL BE RETURNED TO THE SITE FOR
- 8. SOIL WHICH HAS ACCUMULATED NEXT TO EROSION CONTROL DEVICES SHALL BE COLLECTED AND REDISTRIBUTED ON SITE AFTER EACH RAINFALL EVENT, AND AT LEAST ONCE A WEEK.
- 9. IF INSTALLATION OF STORM DRAINAGE SYSTEM SHOULD BE INTERRUPTED BY WEATHER OR NIGHTFALL, THE PIPE ENDS
- 10. ALL EXISTING STRUCTURES, FENCING, TREES AND ETC., WITHIN CONSTRUCTION AREA SHALL BE REMOVED AND DISPOSED OF OFF SITE. BURNING IS NOT ALLOWED ON-SITE.
- 11. SCHEDULE OF EARTHWORK ACTIVITIES:

  a) THE DURATION OF TIME WHICH AN AREA REMAINS EXPOSED SHALL BE KEPT TO A PRACTICAL MINIMUM. THE AREA SHALL BE STABILIZED AS SOON AS POSSIBLE. TEMPORARY VEGETATION OR MULCHING SHALL BE USED TO PROTECT EXPOSED AREAS IF PERMANENT VEGETATION CANNOT BE SEEDED WITHIN 7 DAYS OR ACTIVITY CEASES
  - D) TOPSOIL REPLACEMENT SHALL TAKE PLACE FROM MARCH 1 TO OCTOBER 31. STOCKPILE TOPSOIL AT ALL OTHER TIMES OF THE YEAR. PERMANENT AND FINAL VEGETATION AND STRUCTURAL EROSION CONTROL DEVICES SHALL BE INSTALLED WITHIN SEVEN (7) DAYS AFTER FINAL GRADING OR AS SOON AS POSSIBLE.
- 11. ALL EROSION AND SEDIMENT CONTROL PRACTICES ARE SUBJECT TO FIELD MODIFICATION AT THE DISCRETION OF BUTLER COUNTY AND/OR THE OHIO EPA.

## CONSTRUCTION SEQUENCE

- 1. THE CONTRACTOR SHALL ESTABLISH A STABILIZED CONSTRUCTION ENTRANCE
- 2. THE CONTRACTOR SHALL PLACE THE REQUIRED SEDIMENT FENCE AND INLET PROTECTION ON ANY EXISTING INLETS IN ACCORDANCE WITH THE PLAN DETAILS. INSPECTION BY BUTLER COUNTY WILL BE REQUIRED PRIOR TO ANY CONSTRUCTION ACTIVITY.
- 3. THE CONTRACTOR SHALL CONSTRUCT REROUTE THE EXISTING DITCH PER THE PROPOSED GRADING PLAN.
- THE CONTRACTOR SHALL INSTALL THE STORM SEWER INCLUDING THE OUTLET STRUCTURE AND ROCK CHANNEL PROTECTION.
- 4. EXCAVATE THE BASIN, EXPOSED SLOPES SHALL BE STABILIZED AS SOON AS THEY ARE ENCOUNTERED.
- 5. THE CONTRACTOR SHALL PERFORM SITE EARTHWORK OPERATIONS IN ACCORDANCE WITH THE PLAN DETAILS AND NOTES INCLUDING INSTALLATION OF STORM SEWERS. PROVISIONS FOR INLET PROTECTION SHALL BE ESTABLISHED AS REFERENCED BY THE DETAILS SHOWN ON THIS SHEET. THE CONTRACTOR SHALL APPLY WATER OR DUST PALLIATIVE ON DISTURBED AREAS DURING CONSTRUCTION TO ALLEVIATE OR PREVENT DUST NUISANCE. PER ITEM 616. DUST PALLIATIVE SHALL CONSIST OF CALCIUM CHLORIDE MEETING THE REQUIREMENTS OF SECTION 712.02. THE WATER OR CALCIUM CHLORIDE SHALL BE SPREAD UNIFORMLY OVER THE SURFACE OF THE DISTURBED AREA.
- 6. THE CONTRACTOR SHALL PLACE SEEDING AND MULCHING AS NECESSARY TO STABILIZE ALL DENUDED AREAS. ALL DENUDED AREAS SHALL HAVE SOIL STABILIZATION APPLIED WITHIN SEVEN (7) DAYS OF DISTURBANCE IF THEY ARE TO BE SUBSTANTIALLY UNWORKED FOR MORE THAN 14 DAYS OR
- 7. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF THE EROSION CONTROL DEVICES ONLY AFTER ALL AREAS HAVE ESTABLISHED VEGETATIVE COVER AND UPON APPROVAL FROM BUTLER COUNTY.
- 8. AFTER REMOVAL OF EROSION CONTROL DEVICES, THE CONTRACTOR SHALL CLEAN ALL INLETS AND STORM PIPES OF ALL SEDIMENT INCURRED DURING

# EROSION CONTROL MEASURES MAINTENANCE REQUIREMENTS

TEMPORARY GRAVEL CONSTRUCTION ENTRANCE MAINTENANCE REQUIREMENTS:

- INSPECT ENTRANCE PAD AND SEDIMENT DISPOSAL AREA WEEKLY AND AFTER STORM EVENTS OR HEAVY USE. RESHAPE PAD AS NEEDED FOR DRAINAGE AND RUNOFF CONTROL.
- TOP DRESS WITH CLEAN STONE AS NEEDED.
- IMMEDIATELY REMOVE MUD AND SEDIMENT TRACKED OR WASHED ONTO PUBLIC ROADS BY BRUSHING OR SWEEPING. REPAIR ANY BROKEN ROAD PAVEMENT IMMEDIATELY.

#### MAINTENANCE PROGRAM

ALL EROSION AND SEDIMENTATION CONTROL FACILITIES WILL BE MAINTAINED IN GOOD WORKING ORDER (CLEANED, REPAIRED, ETC.) UNTIL ALL DISTURBED TRIBUTARY AREAS ARE STABILIZED. DURING CONSTRUCTION, AND BEFORE THE ESTABLISHMENT OF PERMANENT VEGETATION, INLET PROTECTION, CUT AND FILL SLOPES, THE SEDIMENTATION BASINS, AND SLT FENCES WILL BE CHECKED REGULARLY EVERY WEEK AND AFTER EVERY RAINFALL EVENT GREATER THAN OR EQUAL TO 0.5 INCHES TO MAINTAIN THEIR EFFECTIVENESS.

THE SILT FENCE WILL BE INSPECTED REGULARLY AND AFTER EVERY RAINFALL EVENT. SEDIMENT WILL BE REMOVED WHEN IT REACHES ONE HALF THE GROUND HEIGHT OF THE SILT FENCE. SEDIMENT REMOVED FROM THE SILT FENCE WILL BE SPREAD OUT, ALLOWED TO DRY,

THE ROCK CONSTRUCTION ENTRANCES WILL BE MAINTAINED AT THE SPECIFIED THICKNESS AT ALL TIMES. A STOCKPILE OF ROCK WILL BE MAINTAINED ON THE SITE FOR THIS PURPOSE. AT THE END OF EACH CONSTRUCTION DAY, ALL SEDIMENT DEPOSITED ON PUBLIC ROADWAYS WILL BE REMOVED AND RETURNED TO THE CONSTRUCTION SITE.

# SEEDING AND MULCHING MATERIALS

PERMANENT SEEDING

SEED	SEEDING DATES	PER 1000 SQ. FT.	PER ACRE
	MARCH - MAY AUG SEPT.	12 LB.	500 LBS
DOMESTIC RYE GRASS PLUS		12 LB.	500 LBS
KENTUCKY BLUEGRASS		12 LB.	500 LBS
TALL FESCUE	MARCH — MAY AUG. — SEPT.	12 LBS.	500 LBS
Y SEEDING	***********		
SEED	<u>DATES</u>	SQ. FT.	PER ACRE
OATS OR	MARCH 1 -	3 LBS.	2 BU.
PERENNIAL GRASS	AUGUST 15	1 LB.	40 LBS.
TALL FESCUE	MARCH 1 - AUGUST 15	1 LB.	40 LBS.
RYE OR	AUGUST 16 -	3 LBS.	2 BU.
WHEAT OR PERENNIAL RYEGRASS	NOVEMBER 1	3 LBS. 1 LB.	2 BU. 40 LBS.
TALL FESCUE	AUGUST 16 - NOVEMBER 1	1 LB.	40 LBS.
	FESCUE, PLUS DOMESTIC RYE GRASS PLUS KENTUCKY BLUEGRASS TALL FESCUE  Y SEEDING E-SEED  OATS OR PERENNIAL GRASS TALL FESCUE  RYE OR MHEAT OR PERENNIAL RYEGRASS	CREEPING RED FESCUE, PLUS DOMESTIC RYE GRASS PLUS KENTUCKY BLUEGRASS  TALL FESCUE  OATS OR PERENNIAL GRASS  TALL FESCUE  MARCH — MAY AUG. — SEPT.  SEEDING  SEEDING DATES  OATS OR PERENNIAL GRASS  TALL FESCUE  MARCH 1 — AUGUST 15  RYE OR MHEAT OR PERENNIAL RYEGRASS  TALL FESCUE  AUGUST 16 — NOVEMBER 1	SEED   DATES   SQ. FT.

SMALL GRAIN STRAW, PREFERABLY WHEAT OR RYE

ASPHALT FMULSION: RAPID SETTING, RS1 OR RS2

JUTE, COTTON OR PLASTIC NETTINGS

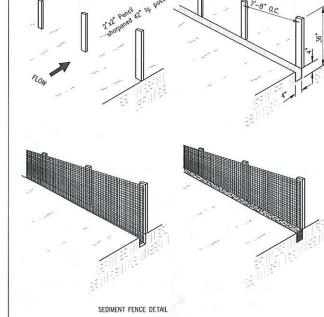
AGRICULTURAL GROUND LIMESTONE

FERTILIZER:

COMMERCIAL-GRADE COMPLETE FERTILIZER OF NEUTRAL COMMERCIAL—STRUE COMPLETE PERHIDZER OF RECHARS
CHARACTER, CONSISTING OF FAST AND SLOW RELEAS.
NITROGEN, 50% DERIVED FROM NATURAL ORGANIC SOURCES OF
UREA—FORM, PHOSPHOROUS, AND POTASSIUM. COMPOSITION:
10% NITROGEN, 10% PHOSPHOROUS, AND 10% POTASSIUM BY WEIGHT, OR IN AMOUNTS RECOMMENDED IN SOIL REPORTS FROM A TESTING AGENCY. APPLY AT 6 LBS. PER 1,000

LIFTING STRAPS

FINGER LOOPS



CONCRETE

WASHOU! ARFA

TAMANA

HOLLOW OUT AREA 6" MIN.

MINIMUM

CONCRETE WASHOUT AREA
NOT TO SCALE

FILL 4"-6" -

W/ AGGREGATE

(NO.57, NO.4 OR NO.2) 4x4 POST

SILT FENCE: THIS SEDIMENT BARRIER UTILIZES STANDARD STRENGTH OR EXTRA STRENGTH SYNTHETICS FILTER FABRICS. IT IS DESIGNED FOR SITUATIONS IN WHICH ONLY SHEET OR

- 1. THE HEIGHT OF A SILT FENCE SHALL NOT EXCEED 36-INCHES (HIGHER FENCES MAY IMPOUN
- THE HEIGHT OF A SILT FENCE SHALL NOT EXCEED 36-INCHES (HIGHER FENCES MAY IMPOUN VOLUMES OF WATER SUFFICIENT TO CAUSE FAILURE OF THE STRUCTURE).
   THE FILTER FABRIC SHALL BE PURCHASED IN A CONTINUOUS ROLL CUT TO THE LENGTH OF THE BARRIER TO AVOID THE USE OF JOINTS, WHEN JOINTS ARE HECESSARY, FILTER CLOTH SHALL BE SPUCED TOSCHER ORLY AT A SUPPORT POST, WITH A MINIMUM OF A 6 INCH OVERLAP, AND SECURELY SEALED.
   POSTS SHALL BE SPACED A MAXIMUM OF 10 FEET APART AT THE BARRIER LOCATION AND DRIVEN SECURELY INTO THE GROUND (MINIMUM OF 12-INCHES). WHEN EXTRA STRENGTH FABRIC IS USED WITHOUT THE WIRE SUPPORT FENCE, POST SPACING SHALL NOT EXCEED 6 FEET.

- FABRIC IS USED WITHOUT THE WIRE SUPPURI TENCE, PUST SPACING STREET.

  4. A TRENCH SHALL BE EXCAVATED APPROXIMATELY 4-INCHES WOE AND 4 INCHES DEEP ALONG THE LINE OF POSTS AND UPSLOPE FROM THE BARRER.

  5. WHEN STANDARD STRENGTH FILTER FABRIC IS USED, A WIRE MEST SUPPORT FENCE SHALL BE FASTENED SECURELY TO THE UPSLOPE SIDE OF THE POSTS USNO HEAVY DUTY WIRE STAPLES AT LEAST I-MCH LONG, IE WIRES OR HOG RINGS, THE WIRE SHALL EXTERD INTO THE TRENCH A MINIMUM OF 2-INCHES AND SHALL NOT EXTEND MORE THAN 36-INCHES ABOVE THE ORIGINAL GROUND SURFACE.

  6. THE STANDARD STRENGTH FILTER FABRIC SHALL BE STAPLED OR WIRED TO THE FENCE, AND 18-INCHES OF THE FABRIC SHALL BE EXTENDED INTO THE TRENCH. THE FABRIC SHALL NOT EXTEND MORE THAN 36-INCHES ABOVE THE ORIGINAL GROUND SURFACE. FILTER FABRIC SHALL NOT EXTEND MORE THAN 36-INCHES ABOVE THE ORIGINAL GROUND SURFACE. FILTER FABRIC SHALL NOT EXTEND MORE THAN 36-INCHES ABOVE THE ORIGINAL GROUND SURFACE. FILTER FABRIC SHALL NOT BE STAPLED TO EXISTING TREES.

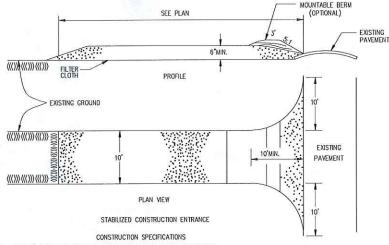
  7. WHEN EXTRA STRENGTH FILTER FABRIC AND CLOSER POST SPACING ARE USED, THE WIRE MESH SUPPORT FINCE MAY BE ELIMINATED. IN SUCH A CASE, THE FILTER FABRIC IS STAPLET OR WIRED DIRECTLY TO THE POSTS WITH ALL OTHER PROYSONS OF TIEM NO. 6 APPLING.

  8. THE TRENCH SHALL BE BACKFILLED AND SOLL COURACTED OVER THE FILTER FABRIC. BUT NOT BEFORE THE UPSLOPE AREA HAS BEEN PERMANENTLY STABILIZED.
- NOT BEFORE THE UPSLOPE AREA HAS BEEN PERMANENTLY STABILIZED.

SILT FENCES AND FILTER BARRIERS SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REQUIRED REPAIRS SHALL BE IMMEDIATELY. Should the fabric on a silt fence or filter barrier decompose or become ineffective prior to the end of the expected usable life and the barrier is still necessary, the

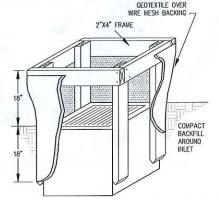
SEDIMENT DEPOSITS SHOULD BE REMOVED AFTER EACH STORM EVENT. THEY MUST BE REMOVED WHEN DEPOSITS REACH APPROXIMATELY ONE—HALF THE HEIGHT OF THE BARRIER.

ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE SILT FENCE OR FILTER BARRIER IS NO LONGER REQUIRED SHALL BE DRESSED TO CONFORM WITH THE EXISTING GRADE, PREPARED AND SEEDED.



- 1. STONE SIZE USE 2\* STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
  2. LENGTH AS REQUIRED.
  3. THICKNESS NOT LESS THAN SIX (6) INCHES.
  4. WIDTH TEN (10) FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS.
  5. FILTER CLOTH WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.
  6. SURFACE WATER ALL SURFACE WATER FLOWING OR DIVERTIED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.
- 7. MANTENANCE THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RICHT-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.
- 8. WASHING WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHT—OF—WAYS. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.

  9. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

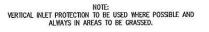


<u>installation;</u> Stand grate on end. Slide the dandy curb bag on with dam on top of the grate. Pull ALL EXCESS DOWN, LAY UNIT ON ITS SIDE, CAREFULLY TUCK FLAP IN, PRESS VELCRO STRIPS TOGETHER INSTALL THE UNIT MAKING SURE FRONT FDGE OF GRATE IS INSERTED IN FRAME FIRST THEN LOWER BACK INTO PLACE. PRESS VELCRO DOTS. TOGETHER WHICH ARE LOCATED UNDER LIFTING STRAPS. THIS INSURES. STRAPS REMAIN FLUSH WITH GUTTER.

DANDY CURB BAG TM

<u>MAINTENANCE:</u> WITH A STIFF BRISTLE BROOM SWEEP SILT AND OTHER DEBRIS OFF SURFACE AFTER EACH EVENT. DANDY CURB BAG NOT TO SCALE
TO BE USED ON STRUCTURES: # 5, 6, 7

OVERFLOW GAP



- INLET PROTECTION SHALL BE CONSTRUCTED EITHER BEFORE UPSLOPE LAND DISTURBANCE BEGINS OR BEFORE THE INLET BECOMES FUNCTIONAL.
- 2. THE EARTH AROUND THE INLET SHALL BE EXCAVATED COMPLETELY TO A DEPTH AT LEAST 18 INCHES.
- 3. THE WOODEN FRAME SHALL BE CONSTRUCTED OF 2-INCH BY 4-INCH CONSTRUCTION GRADE LUMBER. THE 2-INCH BY 4-INCH POSTS SHALL BE DRIVEN ONE (1) FT. INTO THE GROUND AT FOUR CORNERS OF THE INLET AND THE TOP PORTION OF ZHICH BY 4-INCH FRAVE ASSOCIABLED USING THE OVERLAP JOINT SHOWN. THE TOP OF THE FRAME SHALL BE AT LEAST B INCHES BELOW ADJACENT ROADS IF POWDED WATER WILL POSE A SAFETY HAZARD TO TRAFFIC.
- 4. WRE MESH SHALL BE OF SUFFICIENT STRENGTH TO SUPPORT FABRIC WITH WATER FULLY IMPOUNDED AGAINST IT. IT SHALL BE STRETCHED TIGHTLY AROUND THE FRAME AND FASTENED SECURELY TO THE
- 5. GEOTEXTILE MATERIAL SHALL HAVE AN EQUIVALENT OPENING SIZE OF 20-40 SIEVE AND BE RESISTANT TO SUNLIGHT. IT SHALL BE STRETCHED TIGHTLY ARQUING THE FRAME AND FASTENED SECURELY. IT SHALL EXTEND FROM THE TOP OF THE FRAME TO IS INCHES BELOW THE NUET NOTCH ELEVATION. THE GEOTEXTILE SHALL OVERLAP ACROSS ONE SIDE OF THE INLET SO THE ENDS OF THE CLOTH ARE NOT FASTENED TO THE SAME POST.
- BACKFILL SHALL BE PLACED AROUND THE INLET IN COMPACTED 6-INCH LAYERS UNTIL THE EARTH IS EVEN WITH NOTCH ELEVATION ON ENDS AND TOP ELEVATION ON SIDES.
- 7. A COMPACTED EARTH DIKE OR CHECK DAM SHALL BE CONSTRUCTED IN THE DITCH LINE BELOW THE INLET IF THE INLET IS NOT IN A DEPRESSION. THE TOP OF THE DIKE SHALL BE AT LEAST 6 INCHES HIGHER THAN THE TOP OF THE FRAME.

# FILTER FABRIC INLET PROTECTION

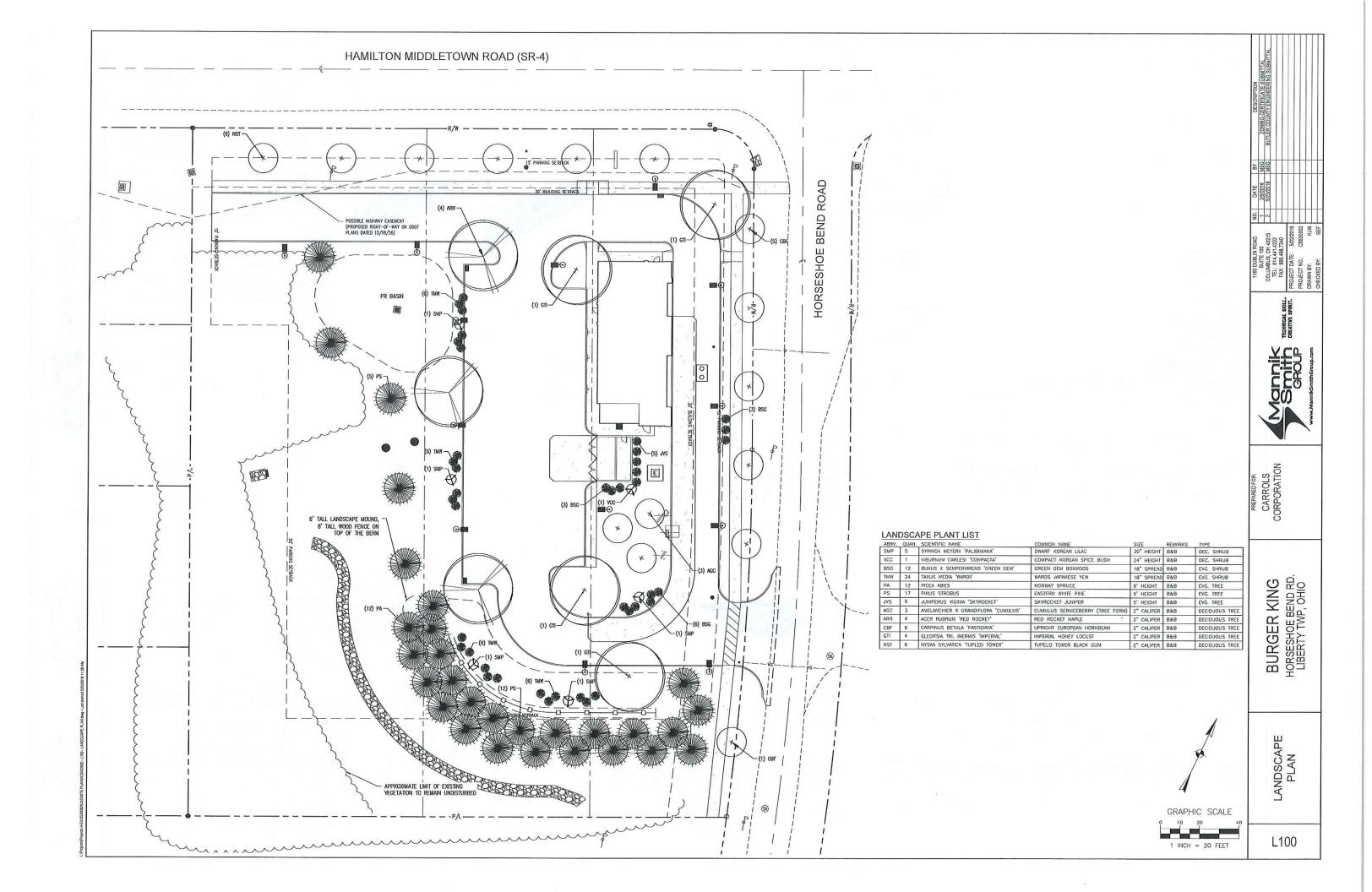
NOT TO SCALE TO BE USED ON STRUCTURES: # 4

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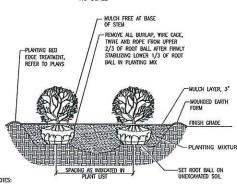
KING 원으 HORSESHOE BEND LIBERTY TWP, OHI BURGER

STORM WATER POLLUTION PREVENTION DETAILS STORM



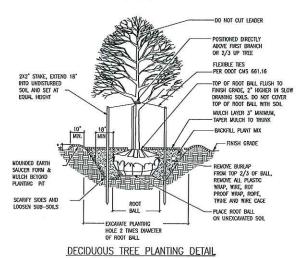
NOTE: WULCH ENTIRE ISLAND AREA WITH 3" OF SHREDDED HARDWOOD BARK PER PLANTING NOTES.

TYPICAL ISLAND MULCHING DETAIL

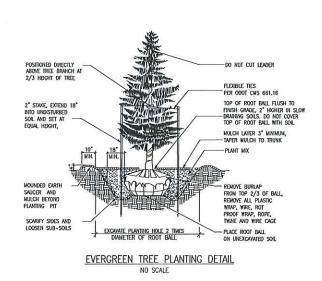


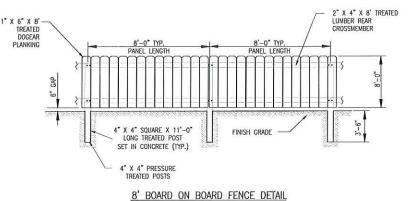
ALL SHRUBS PLAYIED IN ROWS OR MASSES SHALL BE MATCHED IN SIZE AND FORM.
SHRUBS SHALL BEAR SAME RELATION TO FINISH GRADE AS THEY BORE TO EXISTING GRADE IN THE PREYNOUSLY PLAYIED CONDITION.

MASS SHRUB PLANTING DETAIL (B&B OR CONTAINER)



NO SCALE





NO SCALE

LANDSCAPE PLANTING NOTES

 THE CONTRACTOR SHALL PROVIDE A ONE YEAR WARRANTY ON ALL PLANTS AND VEGETATION PROPOSED ON THE LANDSCAPING PLAN. ANY TREES, SHRUBS, GROUND COVER OR OTHER VEGETATION PLANTED AS PART OF THIS PROJECT THAT DO NOT SURVIVE ONE YEAR FROM PLANTING SHALL BE REPLACED AT THE EXPENSE OF THE CONTRACTOR.

2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING AND COORDINATING WITH ALL PERTINENT UTILITY COMPANIES THREE WORKING DAYS IN ADVANCE OF ANY DIGCING. THE CONTRACTOR SHALL ASSUME SOLE RESPONSIBILITY FOR ANY COST INCURRED DUE TO DAMAGE OF ANY UTILITIES.

3. REFER TO THE LANDSCAPE SCHEMATIC PLAN FOR ADDITIONAL NOTES. LANDSCAPE IMPROVEMENTS SHALL CONFORM TO THE LATEST EDITION OF ODOT CONSTRUCTION.

4. ALL PLANTING MATERIALS: SHALL BE PLANTED PER ODOT SPECIFICATIONS. EXISTING TREES TO REMAIN SHALL BE PRUNED TO REMOVE BROKEN, LOW HANGING AND OTHER UNDESIRABLE GROWTH TO ENSURE HEALTHY AND SYMMETRICAL NEW GROWTH.

5. PLANTING BEDS. ONE MONTH BEFORE CULTIVATION AND AFTER DAYTIME TEMPERATURES HAVE WARMED TO 60 "CONSISTENTLY, TREAT ALL PLANTING BEDS THAT ARE TO BE DEVELOPED IN AREAS OF EXISTING TURF WITH PRE-EMERGENT AND POST-EMERGENT THE FERBICIDES. USE A STATE-L'CLENSED PESTICIDE APPLICATION TO APPLY THE HERBICIDE. REPEAT HERBICIDE APPLICATION TWO WEEKS LATER AND UNTIL ALL HERBACCOUS MATERIALS HAVE BEEN KILLED. BEFORE PLANTING. TOP DRESS ALL PLANTING BEDS WITH A MINIMUM OF 6 INCHES OF BACKFILL MIX, THEN CULTIVATE PLANTING AREA TO A DEPTH OF 6 INCHES USING A PLOW, DISC, OR ROTO-TILLER.

6. BACKFILL MIX. FOR ALL PLANTINGS, USE BACKFILL MIX CONSISTING OF THE FOLLOWING:

B. ONE PART EPA RATED CLASS IV COMPOST.

BACKFILL/PLANT MIX AS RECOMMENDED BY THE INDEPENDENT LAB.

C. A SLOW RELEASE COMMERCIAL FERTILIZER (0-20-20 OR EQUAL) ADDED AT A RATE OF 5 POUNDS PER CUBIC YARD TO THE BACKFILL MIX.

D. IF SOIL AREAS ARE OF HIGH PH (GREATER THAN 6.5), APPLY 1.25 POUNDS OF ELEMENTAL SULFUR PER CUBIC YARD OF BACKFILL MIX.
NOTE: CONTRACTOR SHALL SUPPLY A DETAILED SOIL ANALYSIS PRIOR TO ALL PLANT BED PREPARATION.
ANALYSIS SHALL INDICATE SOIL PH, TEXTURE, MAJOR NUTRIENTS, SALTS, ETC. SOIL ANALYSIS SHALL BE FROM A REPUTABLE, INDEPENDENT LAB. SOIL AMENDMENTS SHALL BE INCORPORATED INTO

7. MULCH. SMOOTH AND SHAPE THE BACKFILL MIX TO FORM A SHALLOW BASIN SLIGHTLY LARGER THAN THE PLANTING HOLE. MULCH ALL PLANTING AREAS WITH A LAYER OF FINELY SHREDDED HARDWOOD BARK OF UNIFORM TEXTURE & SIZE. USE SHREDDED HARDWOOD BARK AGED MIN, ONE YEAR. RAKE AND SMOOTH THE ENTIRE AREA OF THE PLANTING BEOS, MULCH TO A DEPTH OF 3 INCHES. AFTER MULCHING AND BEFORE WATERING, ADD A SLOW RELEASE COMMERCIAL FERTILIZER (12–12–12 OR EQUAL), IN GRANULAR FORM, TO THE TOP OF THE MULCH AT A RATE OF 5 POUNDS PER 1000 SQUARE FEET. DO NOT ALLOW FERTILIZER TO CONTACT THE STEMS, BRANCHES, ROOTS OR LEAVES.

8, PERIOD OF ESTABLISHMENT. BEFORE FINAL INSPECTION, PLACE ALL PLANTS AND CARE FOR THEM FOR A PERIOD OF ESTABLISHMENT IN EPRIOD OF ESTABLISHMENT BEGINS IMMEDIATELY UPON COMPLETION OF THE PLANTING OPERATIONS AND CONTINUES UNTIL OCTOBER 1. THE MINIMUM PERIOD OF ESTABLISHMENT IS ONE GROWING SEASON, JUNE 1 THROUGH OCTOBER 1. DURING THE PERIOD OF ESTABLISHMENT, FOLLOW STANDARD HORTICULTURAL PRACTICES TO ENSURE THE WOOR AND GROWTH OF THE TRANSPLANTED MATERIAL. WATER, REMULCH, RESTAKE, GUY, AND CULTIWATE AS NECESSARY. PERFORM AT LEAST TWO WEEDING AND MOWING PROGRAMS (AROUND TRES, GUY STAKES, SHRUBS, AND BED EDGES) OF SUCH INTENSITY AS TO COMPLETELY RID THE PLANTED AND MULCHED AREAS OF WEEDS AND GRASSES. BEGIN THE FIRST PROGRAM ON OR ABOUT JUNE 15 AND THE SECOND APPROXIMATELY 8 WEEKS LATER, ON OR ABOUT JUDIEST, THE ENGINEER WILL INSPECT THE PLANTING AND SUPPLY THE CONTRACTOR WITH A LIST OF MISSING AND DEAD PLANTS AND THOSE THAT HAVE DIED BACK BEYOND NORMAL PRUNING LINES. REPLAIT AS REQUIRED ACCORDING TO THE SPECIFICATIONS OF THE ORIGINAL MATERIAL. REPLACEMENT PLANTS ARE SUBJECT TO A NEW PERIOD OF ESTABLISHMENT, IMMEDIATELY REPLACE PLANTS PLANTED INITIALLY IN THE FALL THAT HAVE DIED BEFORE THE SPRING PLANTING SEASON. CASE FOR THE REPLACEMENT PLANTS ARE SUBJECT TO A NEW PERIOD OF ESTABLISHMENT, IMMEDIATELY

9. RESTORATION OF DISTURBED AREAS FOR NEW LAWN:
ALL DISTURBED AREAS NOT COVERED BY BUILDING, PAWEMENT OR LANDSCAPE PLANTING BEDS SHALL BE
SHALL BE PREPARED FOR GRASS SEED AND SEEDED. LOOSEN RUTS AND WORK THE SOIL AREAS TO A
MINIMUM OF 6" DEEP PRIOR TO FINE GRADING AND SEEDING WORK. AREAS TO RECEIVE GRASS SEED
SHALL HAVE A MIN. 4" TOPSOIL PLACED, SEEDED AND A STRAW/MULCH BLANKET COVER PLACED OVER
THE SEEDED AREAS PER ODOT SPECIFICATIONS. FERTILIZE WITH ONE POUND OF ACTUAL NITROGEN PER
1000 SQUARE FEET WITH A SLOW RELEASE COMMERCIAL STARTER FERTILIZER (LESCO 18-24-12 OR

10. LANDSCAPE TREES, SHRUBS AND PERENNIAL WATERING:
THE CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING, DELIVERING, APPLYING, MEASURING AND
SCHEDULING A SUFFICIENT AMOUNT OF WATER NECESSARY TO KEEP EACH PLANT IN A HEALTHY GROWING
CONDITION THROUGHOUT THE PERIOD OF ESTABLISHMENT. THE CONTRACTOR SHALL APPLY 1" OF WATER
PER WEEK TO ALL NEW PLANTS. THE CONTRACTOR SHALL INSTALL & MAINTAIN SUPPLEMENTAL DRIP
WATERING TREE BAGS (SUCH AS 20 CALLON TREE GATOR WATER BAG) TO PROVIDE ADEQUATE, SLOW
RELEASE OF WATER. WATER BAGS SHALL BE REMOVED AT THE END OF THE SECOND GROWING SEASON.

11. TURE GROUNDCOVER (SODDING, SEEDING AND SEED MULCHING):

ALL SECONIC INSTALLATION SHALL CONFORM TO ODOT SPECIFICATIONS AND NOTE 9 ABOVE. SEED AT 6 LBS/1000 SF WITH THE FOLLOWING SEED MIXTURE: TITAN TALL—TYPE TURF FELSOUE 70%

TITAN TALL—TYPE TURF FESCUE 70%
SR 4100 PERENNAL RYEGRASS 20%
MERIT KENTUCKY BLUEGRASS 10%

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> LANDSCAPE DETAILS

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