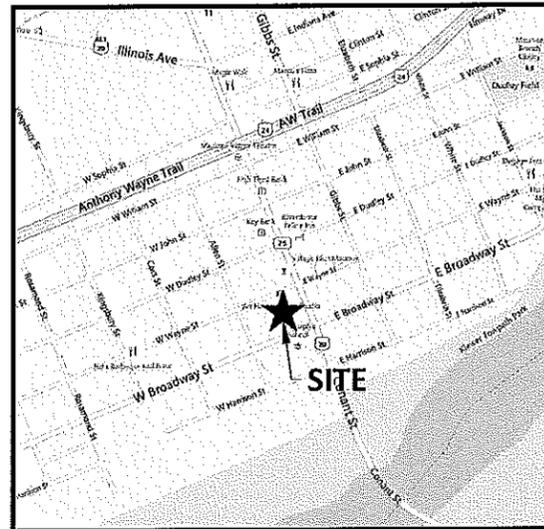


### INDEX OF SHEETS

DESCRIPTION	SHEET	BID & PERMIT		
CIVIL TITLE SHEET	C1	10/10/14		
CIVIL GENERAL NOTES	C2	10/10/14		
DEMOLITION PLAN	C3	10/10/14		
LAYOUT PLAN	C4	10/10/14		
UTILITY PLAN	C5	10/10/14		
GRADING AND EROSION PLAN	C6	10/10/14		
DETAILS	C7	10/10/14		
EROSION CONTROL DETAILS	C8	10/10/14		
LEGENDS, DETAILS, & SPECIFICATIONS	E1	10/10/14		
OVERALL SITE PLAN - ELECTRICAL	E2	10/10/14		

# WEST BROADWAY STREET MAUMEE PARKING LOT

**PROJECT DESCRIPTION:**  
CONSTRUCTION OF A PARKING LOT, LIGHTING, LANDSCAPING, UTILITIES, AND PRIVACY WALL WITH ASSOCIATED ACCESS DRIVES AND NEW SIDEWALK.



**VICINITY MAP**  
NOT TO SCALE

**SITE ADDRESS**

109 WEST BROADWAY STREET  
MAUMEE, OHIO 43537  
LUCAS COUNTY, OHIO

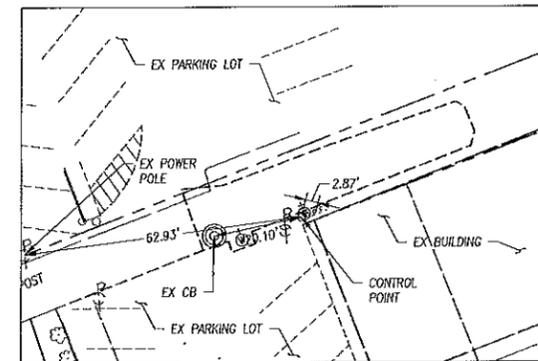
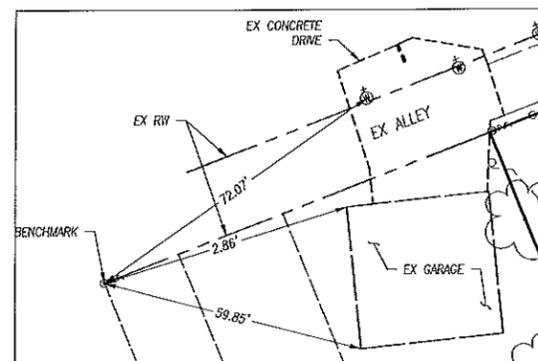
**ZONING: R3 & C3**  
**FLOOD ZONE: X (NOT MAPPED)**

SCALE: HORIZONTAL



**BENCHMARK**  
IRON PIN ON EXISTING WEST PROPERTY LINE  
N=692258.81  
E=1652508.26  
ELEV=635.2510

**CONTROL POINT**  
IRON PIN NORTHWEST OF BUILDING  
N=692370.69  
E=1652792.40



### ABBREVIATION LEGEND

SYMBOL	DESCRIPTION
BLDG	BUILDING
BM	BENCHMARK
CB	CATCH BASIN
CO	CLEANOUT
CONC	CONCRETE
CP	CONTROL POINT
CPP	CORRUGATED POLYETHYLENE PIPE
E	EAST, EASTING
ELEV	ELEVATION
EX	EXISTING
FF	FINISHED FLOOR
FM	FORCE MAIN
FND	FOUNDATION
FT	FOOT, FEET
HW	HEADWALL
IMPERY	IMPERVIOUS
ICW	INTERGRAL CURB AND WALK
INV	INVERT
LL	LOWER LEVEL
MH	MANHOLE
MON	MONUMENT
N	NORTH, NORTHING
NE	NORTHEAST
NW	NORTHWEST
OC	ON CENTER
OFF	OFFSET
RCP	ROCK CHANNEL PROTECTION
RCP	REINFORCED CONCRETE PIPE
R/W	RIGHT OF WAY
S	SOUTH
SW	SANITARY
SE	SOUTHEAST
STA	STATION
STM	STORM
SW	SOUTHWEST
TER	TO BE REMOVED
TC	TOP OF CURB
T/OR	TOP OF OR
T/IRM	TOP OF IRM
TYP	TYPICAL
UD	UNDERDRAIN
VT	VITREOUS
W	WEST

### SYMBOL LEGEND

- BENCHMARK
- MONUMENT BOX
- LIGHT POLE
- POWER POLE
- GUY WIRE
- EXISTING STORM MH
- EXISTING CATCH BASIN
- EXISTING CURB INLET
- EXISTING WATER MANHOLE
- EXISTING SANITARY MANHOLE
- EXISTING PULL BOX
- EXISTING SIGNAL POLE
- EXISTING GAS MARKER
- EXISTING GAS VALVE
- EXISTING GAS METER



NO	REVISION	DATE
8		
7		
6		
5		
4		
3		
2		
1		
NO		



**WEST BROADWAY STREET  
MAUMEE PARKING LOT**  
109 BROADWAY STREET  
MAUMEE, OH 43537  
LUCAS COUNTY  
SECTION TOWN RANGE  
**CIVIL TITLE SHEET**

FILE: 14002.CD.dwg  
JOB NO.: 14002  
DRAWN BY: LMM  
ISSUED: OCT 10, 2014

**C1**

PLOTED: Oct 14, 2014 - 6:22pm  
DRAWING: W:\14002 City of Maumee - Broadway Parking Lot\CIVIL\DWG\14002\_CD.dwg: C1 TITLE BROADWAY

**ODOT STANDARD CONSTRUCTION DRAWINGS**

DRAWING	DATE	DRAWING	DATE	DRAWING	DATE
BP-5.1	7-19-13	DM-2.1	1-18-13		
BP-7.1	7-18-14	DM-4.4	7-20-12		
CB-1.1	1-18-13	MH-1.2	1-18-13		
CB-1.2	1-18-13	CB-2.3	1-18-13		
DM-1.2	1-18-13				
DM-1.4	1-18-13				

**GENERAL NOTES**

- BIDDERS SHALL VISIT AND EXAMINE THE SITE AND ALL CONTRACT DOCUMENTS.
- ITEM NUMBERS REFER TO THE OHIO DEPARTMENT OF TRANSPORTATION (ODOT) CONSTRUCTION AND MATERIAL SPECIFICATIONS (CURRENT EDITION) 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.
- ALL CONSTRUCTION DETAILS SHALL CONFORM TO THE CURRENT EDITION OF THE STANDARD CONSTRUCTION DRAWINGS OF THE STATE OF OHIO DEPARTMENT OF TRANSPORTATION (ODOT) UNLESS OTHERWISE NOTED.
- WORK SHALL BE IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL CODES AND ORDINANCES.
- CONTRACTOR IS RESPONSIBLE FOR OBTAINING A PERMIT FOR ALL CONSTRUCTION ACTIVITIES ACCORDING TO THE GOVERNING AGENCY REQUIREMENTS, SCHEDULING INSPECTIONS, AND PAYING ALL INSPECTION FEES.
- CONTRACTOR SHALL CONTACT THE LOCAL GOVERNING AGENCIES A MINIMUM OF SEVEN (7) WORKING DAYS PRIOR TO THE START OF CONSTRUCTION IN RIGHT OF WAY.
- A RIGHT-OF-WAY PERMIT WILL BE REQUIRED FOR THIS PROJECT. CONTACT THE CITY OF MAUMEE FOR A PERMIT PRIOR TO STARTING THE WORK.
- CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFICATION OF ALL EXISTING CONDITIONS, DIMENSIONS, LOCATIONS AND MATERIALS.
- CONTRACTOR SHALL REPAIR OR REPLACE, AT NO ADDITIONAL COST, ANY EXISTING IMPROVEMENTS DAMAGED DURING THE WORK.
- CONTRACTOR SHALL PROVIDE TEMPORARY SIGNS AND BARRIERS AT LIMITS OF CONSTRUCTION TO ASSURE PUBLIC SAFETY DURING CONSTRUCTION.
- CONTRACTOR SHALL MAINTAIN A CLEAN PROJECT SITE AND REMOVE ALL WASTE MATERIALS AND RUBBISH FROM THE PROJECT.
- ALL PAVEMENT DIMENSIONS, STRIPING DIMENSIONS, AND NODES ARE TO THE EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.
- ALL EDGE OF PAVEMENT RADII ARE 4.50 FT UNLESS NOTED OTHERWISE.
- EXISTING EDGE OF PAVEMENT ABUTTING PROPOSED PAVEMENT SHALL BE SAWCUT AND SEALED WITH ITEM 407 TACK COAT PRIOR TO PLACEMENT OF ITEM 301 OR 448.
- ALL STANDARD PARKING SPACES ARE A MINIMUM OF 9' X 18'.
- ALL PARKING LOT PAINT STRIPES ARE TO BE FOUR (4) INCHES WIDE YELLOW OR WHITE PER ODOT SPECIFICATIONS 641 AND 642 APPLIED IN ACCORDANCE WITH THE PLAN.
- THE CONTRACTOR AND OWNER MUST VERIFY, TAKE OFF, AND AGREE TO ALL QUANTITIES, INCLUDING EXCAVATION AND EMBANKMENT 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.

**EARTHWORK**

- EXISTING SITE SURVEY, TOPOGRAPHY, AND SUBSURFACE CONDITIONS AS PRESENTED IN THE DRAWINGS, REPORTS, 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.
  - 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 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.
  - WITHOUT ADVANCE WRITTEN NOTIFICATION OF UNACCEPTABLE DISCREPANCY, NO CLAIM FOR EXTRA PAYMENT WILL BE CONSIDERED FOR A CLAIM OF DIFFERENCE BETWEEN DOCUMENTS AND ACTUAL CONDITIONS AFTER THE CONTRACTOR HAS ALTERED EXISTING CONDITIONS.
- ALL SPOT ELEVATIONS ARE TO THE TOP OF FINISHED PAVEMENT/GRADE UNLESS NOTED OTHERWISE. ADD SIX (6) INCHES (0.50 FT) TO FINISHED PAVEMENT GRADES FOR BACK OF CURB GRADES UNLESS OTHERWISE NOTED.
- ANY DIGITAL SURFACE MODELS PROVIDED FOR THE PROJECT BY THE ENGINEER HAVE BEEN GENERATED FOR THE PREPARATION OF THE CONSTRUCTION DRAWINGS. THE CONTRACTOR SHALL VERIFY THAT THE DIGITAL SURFACE MODEL IS CONSISTENT WITH THE FULL SET OF CONSTRUCTION DOCUMENTS AND IS SUITABLE FOR THEIR PURPOSES. WHEN IN CONFLICT, THE PRINTED DRAWINGS GOVERN UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
- CONTRACTOR SHALL REMOVE ALL TREES AND CLEAN ALL AREAS AS DETERMINED BY THE ENGINEER OR OWNER TO PERFORM ALL GRADING AND UTILITY WORK IN ACCORDANCE WITH THE DRAWINGS, GENERAL NOTES, AND PROJECT SPECIFICATIONS.
- THE SITE SHALL BE STRIPPED OF ALL VEGETATION, TOPSOIL, AND OTHER ORGANIC MATERIAL AND STOCKPILED PRIOR TO GRADING.
- EMBANKMENT MATERIAL SHOULD CONSIST OF PLASTIC CLAY MATERIALS, FREE OF ORGANIC MATTER, WHICH CLASSIFY AS CL ACCORDING TO THE UNIFIED SOIL CLASSIFICATION SYSTEM AND SHALL CONTAIN NO STONES WHOSE LARGEST DIMENSION EXCEEDS FOUR (4) INCHES.
- BUILDING PAD PREPARATION SHALL BE MADE IN ACCORDANCE WITH GEOTECHNICAL ENGINEER'S AND ARCHITECT'S RECOMMENDATIONS.
- CONTRACTOR SHALL ENGAGE A QUALIFIED INDEPENDENT GEOTECHNICAL TESTING AGENCY TO PERFORM FIELD QUALITY CONTROL TESTING.
- A MINIMUM OF SIX (6) INCHES OF TOPSOIL SHALL BE PLACED ON ALL GRASS AREAS UNLESS SPECIFIED OTHERWISE IN THE LANDSCAPE DRAWINGS.
- ALL SITE EXCAVATION AND EMBANKMENT SHALL BE COMPLETED IN ACCORDANCE WITH THE GEOTECHNICAL REPORT AND/OR THE PROJECT SPECIFICATIONS. WHEN IN CONFLICT, THE MORE STRINGENT REQUIREMENTS SHALL GOVERN.

**GENERAL UTILITY NOTES**

- UNDERGROUND UTILITIES AS SHOWN WERE LOCATED IN THE FIELD AND/OR TAKEN FROM VARIOUS DEPARTMENT RECORDS AND RECORD PLAN SETS FROM PREVIOUS PROJECTS. THE LOCATIONS ARE AS ACCURATE AS CAN BE CONFIRMED FROM SURFACE APPURTENANCES (MANHOLES, VALVES, ETC.). NO EXCAVATION HAS BEEN DONE TO DETERMINE LOCATION OR DEPTH UNLESS OTHERWISE NOTED.
- THE LOCATION OF ALL UNDERGROUND UTILITIES ARE APPROXIMATE. THE CONTRACTOR SHALL FIELD VERIFY THE EXACT LOCATION AND ELEVATION OF ANY EXISTING UNDERGROUND UTILITIES PRIOR TO BEGINNING CONSTRUCTION OR EARTH MOVING OPERATIONS.
- A MINIMUM OF 48 HOURS BEFORE COMMENCING WORK, THE CONTRACTOR SHALL CONTACT THE OHIO UTILITIES PROTECTION SERVICE (OUPS) AT 811 OR 1-800-362-2764 AND ALL OTHER AGENCIES WHICH MAY HAVE UNDERGROUND UTILITIES INVOLVED IN THIS PROJECT OR ARE NOT MEMBERS OF OHIO UNDERGROUND PROTECTION, INC.
- ALL PUBLIC AND PRIVATE UTILITY COMPANIES SHALL BE NOTIFIED BY THE CONTRACTOR, IN WRITING, AT LEAST SEVEN (7) DAYS IN ADVANCE OF ANY CONSTRUCTION ACTIVITY TO ARRANGE FOR INSPECTION OF THE PROJECT.
- THE CITY OF MAUMEE DIVISION OF PUBLIC SERVICE SHALL BE NOTIFIED (419-897-7150) AT LEAST THREE (3) WORKING DAYS IN ADVANCE OF ANY CONSTRUCTION ACTIVITY TO ARRANGE FOR INSPECTION OF THE PROJECT.
- CONTRACTOR SHALL VERIFY ALL UTILITY AND CONDUIT SIZES AND LOCATIONS WITH THE ARCHITECTURAL, MECHANICAL, AND STRUCTURAL DRAWINGS AND WITH THE UTILITY PROVIDERS PRIOR TO BEGINNING CONSTRUCTION ACTIVITIES.
- PIPE UNDER OR WITHIN FIVE (5) FEET OF THE EXISTING OR PROPOSED EDGE OF PAVEMENT OR BACK OF CURB SHALL BE BACKFILLED WITH APPROVED GRANULAR MATERIAL TO THE SUBGRADE. GRANULAR MATERIAL SHALL MEET THE GRADING REQUIREMENTS OF ODOT ITEM 304 WITH A MAXIMUM DRY DENSITY EXCEEDING 110 LB/CU FT AND 98% COMPACTION AS DETERMINED BY STANDARD PROCTOR TESTS. THE ENGINEER RESERVES THE RIGHT TO ORDER COMPACTION TESTING IF DEEMED NECESSARY.
- ALL STORM SEWER, SANITARY SEWER, WATER MAIN, WATER SERVICES, AND UTILITY CROSSOVERS LOCATED IN THE PUBLIC RIGHT-OF-WAY SHALL BE TOTALLY BACKFILLED WITH CONTROLLED DENSITY FILL UNDER EXISTING PAVEMENT CUT BY TRENCHING OPERATIONS TO A DISTANCE OF 5 FEET BEYOND THE BACK OF CURB.
- ALL TRENCHES SHALL BE COMPACTED AND BACKFILLED IN ACCORDANCE WITH ODOT SPECIFICATIONS ITEMS 203 AND 603 FOR TRENCHING OPERATIONS COMPLETED PRIOR TO PLACING PAVEMENT AND OUTSIDE OF PAVED AREAS.
- ITEMS THAT PERTAIN TO UNDERGROUND UTILITIES SUCH AS WATER MAIN PIPE, WATER VALVES, SANITARY SEWER PIPE, MANHOLE FRAMES AND COVERS, STORM SEWERS, ETC. WILL REMAIN UNDER THE SPECIFICATIONS OF THE UTILITY SERVING THE AREA AND THE LOCAL CITY OR COUNTY ENGINEER.
- NO OPEN CUT TRENCHES WILL BE ALLOWED TO REMAIN OPEN OVERNIGHT. OPEN TRENCHES SHALL BE COVERED WITH STEEL PLATES, 3/4" PLYWOOD, OR OTHER MEANS FOR TRENCHES WHICH WILL BE CONTINUED WITHIN THE NEXT 72 HOURS. THE OPEN TRENCH AREA SHALL ALSO BE SURROUNDED WITH CAUTION TAPE OUTSIDE OF AREAS OPEN TO TRAFFIC. TRENCHES TO REMAIN INACTIVE LONGER THAN 72 HOURS SHALL HAVE THE PIPE PLUGGED, MARKED, AND THE TRENCH FILLED UNTIL THE WORK PROGRESSES.
- CROSSINGS
  - WHENEVER A STORM OR 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 BELOW THE BOTTOM OF THE WATER MAIN AS MEASURED BETWEEN THE OUTSIDE PIPE WALLS. 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:
    - 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.
    - THE SEWER CROSSING SHALL BE CONSTRUCTED SO THAT THE SEWER JOINTS WILL BE EQUIDISTANT AND AS FAR AS POSSIBLE FROM THE WATER MAIN JOINTS.
    - WHERE A WATER MAIN PASSES UNDER A SEWER, ADEQUATE STRUCTURAL SUPPORT SHALL BE PROVIDED FOR THE SEWER TO PREVENT DAMAGE TO THE WATER MAIN.

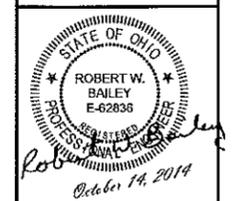
**STORM SEWERS**

- STORM SEWER PIPES DESIGNATED AS "STM" SHALL MEET THE REQUIREMENTS OF ONE OF THE FOLLOWING:
  - NON-REINFORCED CONCRETE PIPE PER ODOT SPECIFICATION 706.01.
  - REINFORCED CONCRETE CIRCULAR PIPE PER ODOT SPECIFICATION 706.02 OR 706.03.
  - REINFORCED CONCRETE ELLIPTICAL CULVERT, STORM DRAIN, AND SEWER PIPE PER ODOT SPECIFICATION 706.04.
  - PRECAST REINFORCED BOX SECTIONS PER ODOT SPECIFICATION 706.05.
  - ALUMINIZED TYPE 2 CORRUGATED STEEL PIPE AND PIPE ARCHES WITH PAVED INVERT PER ODOT SPECIFICATIONS 707.01 OR 707.02.
  - ALUMINIZED TYPE 2 CORRUGATED STEEL SPIRAL RIB CONDUITS PER ODOT SPECIFICATION 707.12.
  - CORRUGATED POLYETHYLENE SMOOTH LINED PIPE PER ODOT SPECIFICATION 707.33.
  - POLYVINYL CHLORIDE PROFILE WALL PIPE PER ODOT SPECIFICATION 707.43.
- ALL STORM STRUCTURES ARE ODOT TYPES UNLESS OTHERWISE NOTED.
- ALL CATCH BASINS SHALL BE EQUIPPED WITH HEAVY DUTY, BICYCLE SAFE GRATES CAPABLE OF CARRYING AN HS-25 LOADING.
- ANY EXISTING STORM SEWER CUT BY 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 (2) 4 INCH PERFORATED UNDERDRAINS EXTENDING 10 LINEAR FEET FROM THE CATCH BASIN. UNDERDRAINS SHALL BE PLACED 6 INCHES BELOW THE SUBGRADE PER ODOT STANDARD DRAWING DM-1.2 WITH 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. THREE UNDERDRAINS SHALL BE PLACED AT CATCH BASINS WITH ONLY 1 STORM OUTLET PIPE WITH THE THIRD UNDERDRAIN OPPOSITE THE STORM PIPE OUTLET.
- EROSION CONTROL MEASURES SHALL BE PLACED AT THE INLET AND OUTLET OF STORM SEWERS TO CONTROL SILT AS THE INSTALLATION OF THE STORM SEWER PROGRESSES.
- ALL JOINTS SHALL BE SOIL SEAL JOINTS UNLESS SPECIFICALLY NOTED ON THE PLANS.
- UNCONTROLLED STORM WATER AND EXTRANEOUS FLOWS ARE PROHIBITED FROM ENTERING THE EXISTING STORM SEWER SYSTEM DURING CONSTRUCTION. 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 FEET SHALL BE PROVIDED WITH STEPS MEETING THE REQUIREMENTS OF ODOT ITEM 611 AND SHALL CONFORM TO THE DETAILS SHOWN ON ODOT STANDARD DRAWING MH-1.1.

**SEDIMENT AND EROSION CONTROL**

- ALTHOUGH THIS PROJECT DOES NOT REQUIRE A NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT, CONTRACTOR SHALL CONFORM WITH THE REQUIREMENTS OF THE NPDES PERMIT AND ALL PLANS AND SPECIFICATIONS REGARDING SOIL EROSION/SEDIMENTATION CONTROL REQUIREMENTS.
- CONTRACTOR SHALL IMPLEMENT ALL SOIL AND EROSION CONTROL PRACTICES AS PER THE PLAN AND AS REQUIRED BY THE LOCAL GOVERNING AGENCY AND THE OHIO ENVIRONMENTAL PROTECTION AGENCY (OEPA). THE EROSION CONTROL MEASURES SHALL BE INSTALLED PER THE CURRENT EDITION OF THE OHIO DEPARTMENT OF NATURAL RESOURCES RAINWATER AND LAND DEVELOPMENT HANDBOOK.
- BORROW AND WASTE DISPOSAL AREAS SHALL BE SELECTED WITH FULL CONSIDERATION FOR SOIL EROSION AND SEDIMENT CONTROL.
- PRIOR TO THE START OF ANY CONSTRUCTION, CONTRACTOR SHALL INSTALL SOIL EROSION AND SEDIMENTATION BEST MANAGEMENT PRACTICES (BMPs) AS PER THE PLAN AND AS REQUIRED BY THE CITY OF MAUMEE AND THE OHIO ENVIRONMENTAL PROTECTION AGENCY. THE EROSION CONTROL MEASURES SHALL BE INSTALLED PER THE CURRENT EDITION OF THE OHIO DEPARTMENT OF NATURAL RESOURCES RAINWATER AND LAND DEVELOPMENT HANDBOOK.
- EROSION CONTROL MEASURES MAY BE IMPLEMENTED AND LOCATIONS ADJUSTED AS NEEDED TO FACILITATE CONSTRUCTION PROVIDED THE EROSION CONTROL PLAN IS UPDATED ACCORDINGLY AND THE INTENT OF THE PLAN IS MET.
- SOIL EROSION AND SEDIMENTATION BMP MEASURES SHALL BE MAINTAINED AT ALL TIMES UNTIL CONSTRUCTION HAS BEEN COMPLETED, INCLUDING ALL GRASS BEING WELL ESTABLISHED AND/OR PERMANENT EROSION AND SEDIMENTATION BMP MEASURES ARE INSTALLED AND OPERATIONAL.
- CONTRACTOR SHALL NOTIFY THE LOCAL GOVERNING AGENCY THREE (3) DAYS PRIOR TO STARTING CONSTRUCTION FOR PURPOSES OF MONITORING SOIL EROSION AND BMP MEASURES.
- SEDIMENT AND EROSION CONTROLS SHALL BE INSPECTED ONCE EVERY SEVEN (7) DAYS AND WITHIN 24 HOURS OF EVERY 0.5" OR GREATER RAINFALL. A WRITTEN LOG OF THESE INSPECTIONS SHALL BE FURNISHED TO THE OWNER, OWNER'S REPRESENTATIVE, AND ENGINEER UNLESS OTHERWISE DIRECTED BY THE OWNER OR OWNER'S REPRESENTATIVE. THIS LOG SHOULD INDICATE THE DATE OF INSPECTION, NAME OF INSPECTOR, WEATHER CONDITIONS, OBSERVATIONS, ACTIONS TAKEN TO CORRECT ANY PROBLEMS AND THE DATE ACTION WAS TAKEN.
- THE PROJECT HAS BEEN DESIGNED TO CONTROL EROSION AND PREVENT DAMAGE TO OTHER PROPERTY. ALL STRIPPING, EARTHWORK, AND GRADING SHALL BE PERFORMED TO MINIMIZE EROSION. NATURAL VEGETATION SHALL BE RETAINED WHEREVER POSSIBLE. THE PROPOSED PLAN WILL ALLOW MOST ERODED MATERIALS TO BE RETAINED ON SITE.
- SPECIAL PRECAUTIONS WILL BE TAKEN IN THE USE OF CONSTRUCTION EQUIPMENT TO PREVENT OPERATIONS WHICH PROMOTE EROSION.
- SOLID, SANITARY, AND TOXIC WASTE MUST BE DISPOSED OF IN A PROPER MANNER IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS. IT IS PROHIBITED TO BURN, BURY OR POUR INTO THE GROUND OR INTO STORM SEWERS ANY SOLVENTS, PAINTS, STAINS, GASOLINE, DIESEL FUEL, USED MOTOR OIL, HYDRAULIC FLUID, ANTI-FREEZE, CEMENT CURING COMPOUNDS, AND OTHER SUCH TOXIC OR HAZARDOUS WASTES.
- HAZARDOUS WASTES SHALL BE REMOVED OFF SITE AND PROPERLY DISPOSED OF CONSISTENT WITH ALL FEDERAL, STATE, AND LOCAL REGULATIONS.
- CONTRACTOR SHALL DESIGNATE A SITE DUMP/WASH AREA PRIOR TO STARTING CONSTRUCTION FOR SUCH PURPOSES AS WASHING OUT CONCRETE TRUCKS AND DUMPING NON-HAZARDOUS WASTE MATERIALS.
- DUMPING OR DISCHARGE OF ANY HAZARDOUS WASTE MATERIALS TO ANY STORM OR SANITARY SEWERS IS PROHIBITED.
- WASH OUT OF CEMENT TRUCKS SHOULD OCCUR IN A DIKED, DESIGNATED AREA WHERE THE WASTEWATER CAN BE COLLECTED AND DISPOSED OF PROPERLY AFTER IT HARDENS.
- STORAGE TANKS SHOULD BE LOCATED IN DIKED AREAS THAT HOLD A MINIMUM VOLUME OF 110% OF THE LARGEST TANK.
- LOCATION OF DUMP/WASH LOCATIONS AND CONTRACTOR PROCEDURES ARE SUBJECT TO SUPERVISION BY THE FEDERAL, STATE, AND THE LOCAL GOVERNING AGENCIES.
- ALL CATCH BASINS AND INLETS NEAR DISTURBED AREAS SHALL HAVE TEMPORARY INLET PROTECTION SEDIMENT BARRIERS PLACED AND MAINTAINED THROUGHOUT CONSTRUCTION TO PREVENT SEDIMENT FROM ENTERING THE DRAINAGE SYSTEMS WHETHER SHOWN IN THE DRAWINGS OR NOT.
- ANY PERIMETER CONTROLS SHALL BE IMPLEMENTED WITHIN SEVEN (7) DAYS OF FIRST GRUBBING AND SHALL REMAIN FUNCTIONAL UNTIL THE UP-SLOPE DEVELOPMENT AREA IS STABILIZED.
- STOCKPILED SOILS SHALL BE LEGALLY REMOVED FROM THE SITE OR COVERED WITH TEMPORARY SEED AND MULCH WITHIN SEVEN (7) DAYS AND SURROUNDED WITH SILT FENCE UNTIL SUCH TIME THAT IT CAN BE REUSED ON THE SITE.
- ALL AREAS AT FINAL GRADE OR WHERE CONSTRUCTION ACTIVITY HAS TEMPORARILY CEASED FOR 21 DAYS OR LONGER SHALL BE STABILIZED WITHIN SEVEN (7) DAYS OF ACTIVITY.
- ALL GRASS AREAS ARE TO BE SEEDED AND STRAW MULCHED WITHIN SEVEN (7) DAYS AFTER FINAL GRADE IS REACHED.
- STRUCTURAL PRACTICES SHALL BE USED TO CONTROL EROSION AND TRAP SEDIMENTS FROM ALL SITES REMAINING DISTURBED FOR MORE THAN FOURTEEN DAYS.
- SEED AND MULCH ALL AREAS NOT SHOWN AS BUILDING OR PAVEMENT AND ALL AREAS DISTURBED BY CONSTRUCTION ACTIVITIES UNLESS OTHERWISE NOTED IN THE PLANS.
- ALL STREETS MUST BE MAINTAINED DURING CONSTRUCTION. STREETS SHALL BE KEPT FREE OF MUD, DIRT, AND CONSTRUCTION DEBRIS. CONTRACTOR SHALL PROVIDE ROUTINE STREET SWEEPING TO ENSURE MINIMAL EROSION INTO THE PUBLIC STORM SEWER SYSTEM AND ROADWAY.
- CLEANUP SHALL BE CONDUCTED IN A MANNER TO ENSURE THAT EROSION MEASURES ARE NOT DISTURBED.
- THE LOCAL GOVERNING AGENCY MAY REQUIRE WORK TO BE STOPPED AND THE STORM DRAINAGE OUTLET TO BE PLUGGED IF CONDITIONS BECOME UNSATISFACTORY.



NO	REVISION	DATE
1		
2		
3		
4		
5		
6		
7		
8		



**WEST BROADWAY STREET  
MAUMEE PARKING LOT**  
109 BROADWAY STREET  
MAUMEE, OH 43537  
LUCAS COUNTY  
SECTION TOWN RANGE

**CIVIL GENERAL NOTES**

FILE: 14002 CD.dwg  
JOB NO.: 14002  
DRAWN BY: LMM  
ISSUED: OCT 10, 2014

**C2**

PLOTTED: Oct 14, 2014 - 6:22pm  
DRAWING: M:\14002 (City of Maumee - Broadway Parking Lot)\Civil\DWG\14002 CD.dwg: C2 NOTES BROW.DWG

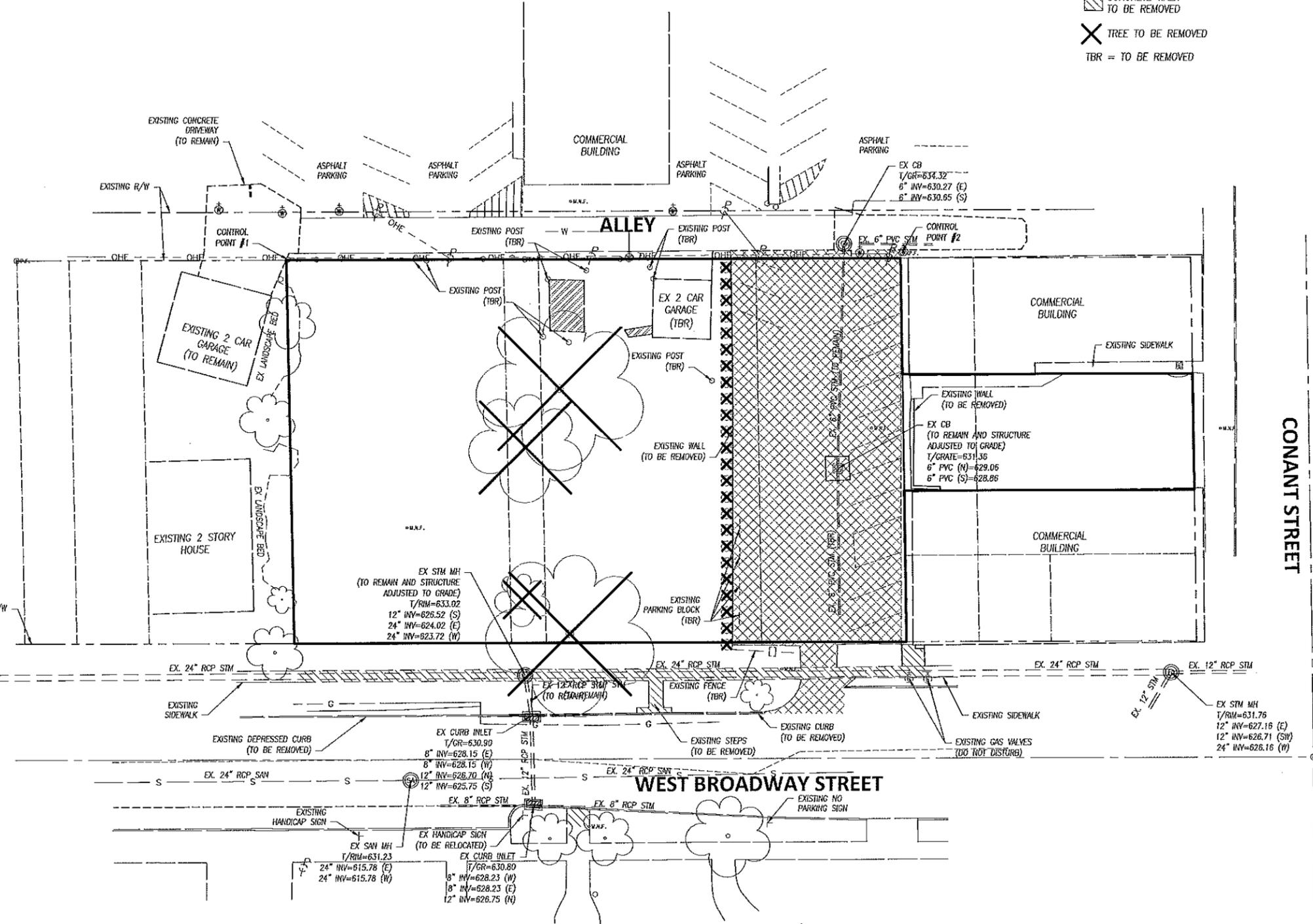
PLOTTED: Dec 09, 2014 - 1:56pm  
 DRAWING: M:\14002 (City of Maumee - Broadway, Parking Lot)\CIVIL\Drawg\14002\_CD.dwg; C3 DEMO BROADWAY

**DEMOLITION LEGEND**

-  ASPHALT PAVEMENT TO BE REMOVED
-  CONCRETE PAVEMENT TO BE REMOVED
-  CONCRETE WALK TO BE REMOVED
-  TREE TO BE REMOVED
- TBR = TO BE REMOVED



STATE OF OHIO  
 ROBERT W. BAILEY  
 E-62836  
 REGISTERED PROFESSIONAL ENGINEER  
 December 09, 2014



NO	REVISION	DATE
9		
8		
7		
6		
5		
4		
3		
2		
1		
0		

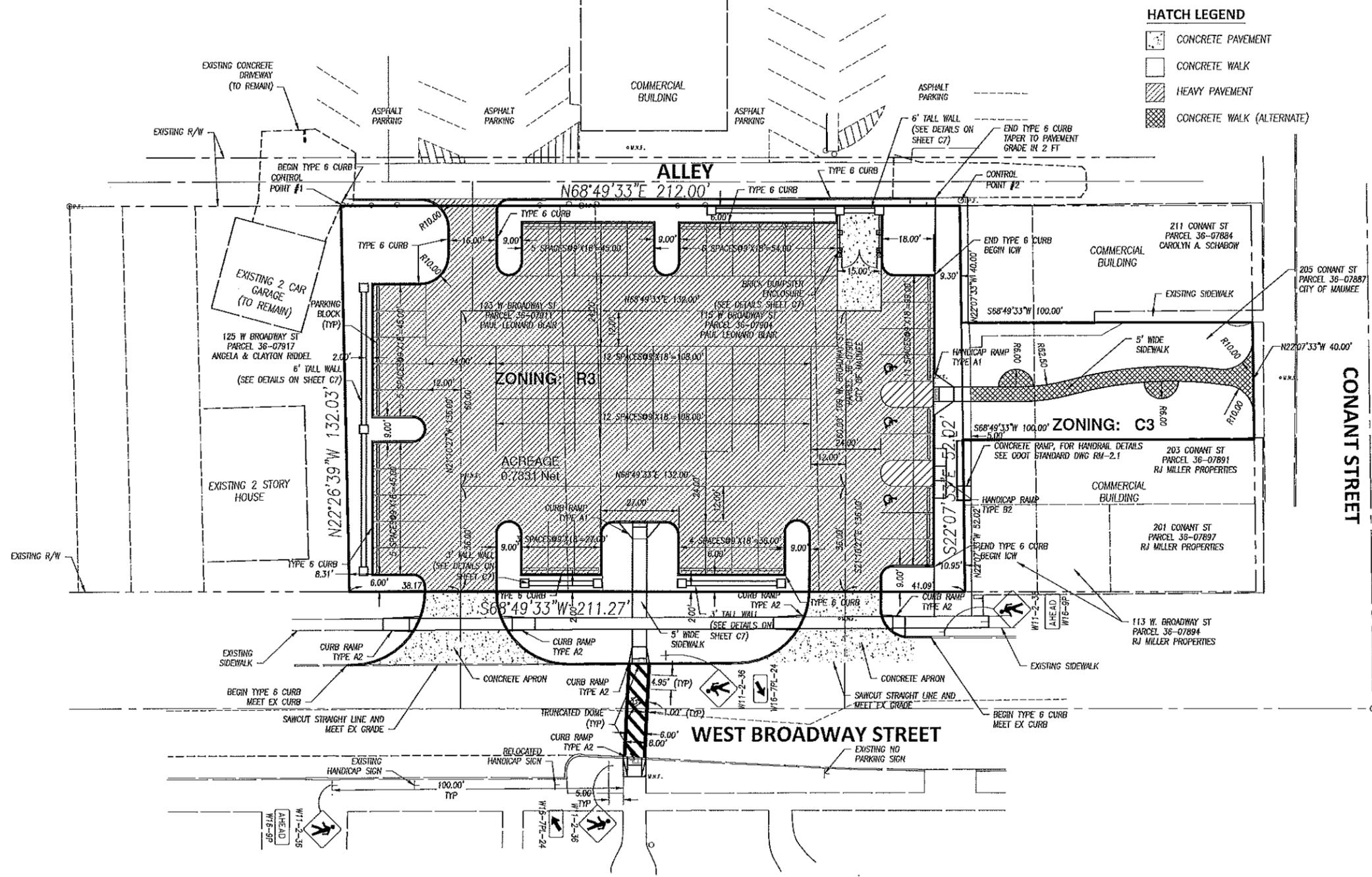
**DGL**  
 DGL CONSULTING ENGINEERS, LLC  
 3455 BRAEFIELD BLVD, SUITE E  
 MAUMEE, OH 43537  
 PHONE: 419.535.4015  
 www.dgl-ted.com

**WEST BROADWAY STREET  
 MAUMEE PARKING LOT**  
 109 BROADWAY STREET  
 MAUMEE, OH 43537  
 LUCAS COUNTY  
 SECTION TOWN RANGE  
**DEMOLITION PLAN**

FILE: 14002\_CD.dwg  
 JOB NO.: 14002  
 DRAWN BY: LMM  
 ISSUED: OCT 10, 2014

**C3**

PLOTTED: Dec 09, 2014 - 1:55pm  
 DRAWING: W:\14002 (City of Maumee - Broadway Parking Lot)\Civil\Draw\14002 CD.dwg: C4 LAYOUT: BROADWAY



**HATCH LEGEND**

- CONCRETE PAVEMENT
- CONCRETE WALK
- HEAVY PAVEMENT
- CONCRETE WALK (ALTERNATE)

STATE OF OHIO  
 ROBERT W. BAILEY  
 E-62836  
 REGISTERED PROFESSIONAL ENGINEER  
*Robert W. Bailey*  
 December 09, 2014

NO	REVISION	DATE
1		
2		
3		
4		
5		
6		
7		
8		
9		

DGL CONSULTING ENGINEERS, LLC  
 3455 BRIARFIELD BLVD, SUITE E  
 MAUMEE, OH 43537  
 PHONE: 419.335.1015  
 www.dgl-ent.com

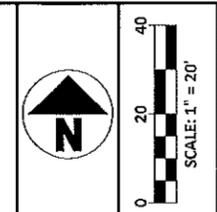
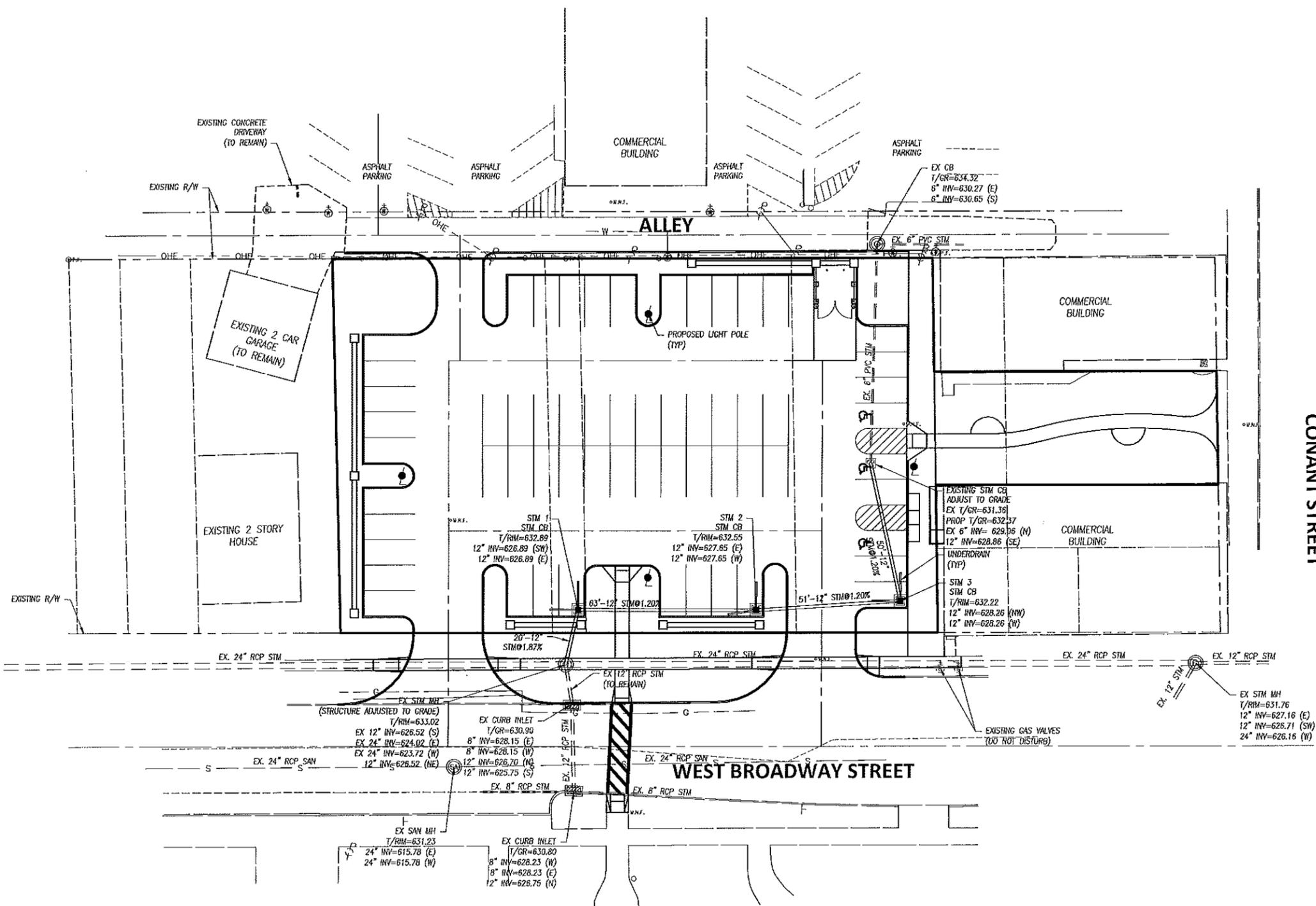
**WEST BROADWAY STREET  
 MAUMEE PARKING LOT**  
 109 BROADWAY STREET  
 MAUMEE, OH 43537  
 LUCAS COUNTY  
 SECTION TOWN RANGE  
**LAYOUT PLAN**

FILE: 14002 CD.dwg  
 JOB NO.: 14002  
 DRAWN BY: LMM  
 ISSUED: OCT 10, 2014

**C4**

FILE: 14002 CD.dwg  
 JOB NO.: 14002  
 DRAWN BY: LMM  
 ISSUED: OCT 10, 2014

PLOTTED: Dec 09, 2014 -- 1:58pm  
 DRAWING: M:\14002 (City of Maumee - Broadway Parking Lot)\Civil\Drawg\14002 CD.dwg: C5 UTILITY - BROADWAY



STATE OF OHIO  
 ROBERT W. BAILEY  
 E-62836  
 REGISTERED PROFESSIONAL ENGINEER  
 December 09, 2014

NO	REVISION	DATE
9		
8		
7		
6		
5		
4		
3		
2		
1		

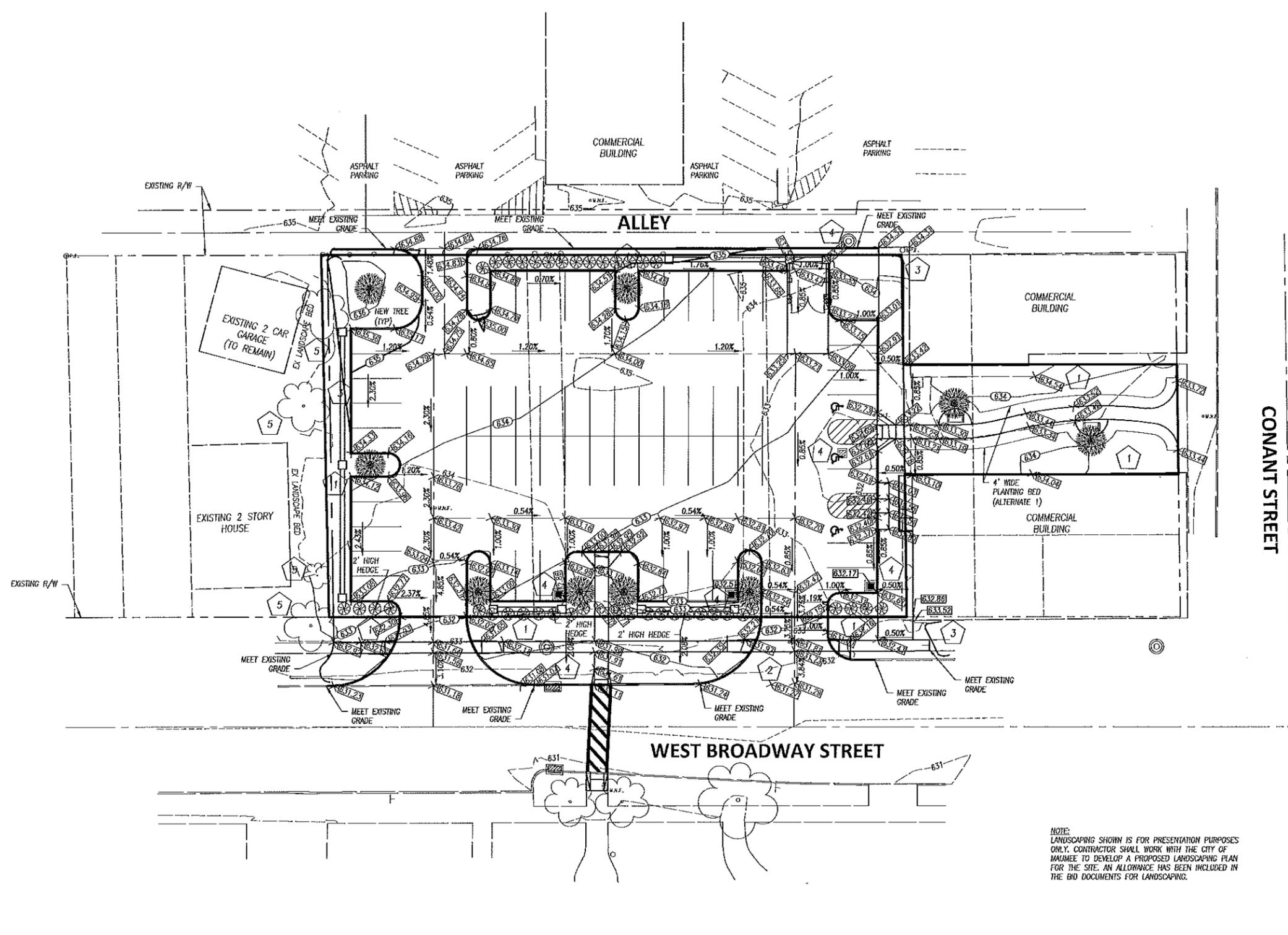
DGL CONSULTING ENGINEERS, LLC  
 3455 BRIARFIELD BLVD, SUITE E  
 MAUMEE, OH 43537  
 PHONE: 419.555.1015  
 www.dgl-td.com

WEST BROADWAY STREET  
 MAUMEE PARKING LOT  
 109 BROADWAY STREET  
 MAUMEE, OH 43537  
 LUCAS COUNTY  
 SECTION TOWN RANGE  
**UTILITY PLAN**

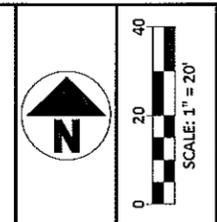
FILE: 14002 CD.dwg  
 JOB NO.: 14002  
 DRAWN BY: LMM  
 ISSUED: OCT 10, 2014

**C5**

PLOTTED: Dec 09, 2014 - 1:58pm  
 DRAWING: M:\14002 City of Maumee - Broadway Parking Lot\Civil\Draw\14002\_CD.dwg; C6 GRADING BROADWAY



NOTE:  
 LANDSCAPING SHOWN IS FOR PRESENTATION PURPOSES ONLY. CONTRACTOR SHALL WORK WITH THE CITY OF MAUMEE TO DEVELOP A PROPOSED LANDSCAPING PLAN FOR THE SITE. AN ALLOWANCE HAS BEEN INCLUDED IN THE BID DOCUMENTS FOR LANDSCAPING.



STATE OF OHIO  
 ROBERT W. BAILEY  
 E-62836  
 December 09, 2014

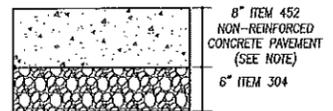
NO	REVISION	DATE
9		
8		
7		
6		
5		
4		
3		
2		
1		
NO		

DGL CONSULTING ENGINEERS, LLC  
 3455 BRIARFIELD BLVD., SUITE E  
 MAUMEE, OH 43537  
 PHONE: 419.535.1015  
 www.dgl-hdr.com

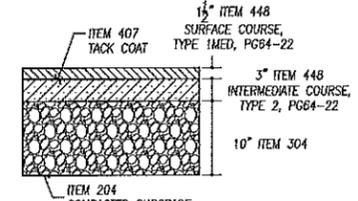
WEST BROADWAY STREET  
 MAUMEE PARKING LOT  
 109 BROADWAY STREET  
 MAUMEE, OH 43537  
 LUCAS COUNTY  
 SECTION TOWN RANGE  
**GRADING & EROSION PLAN**

FILE: 14002 CD.dwg  
 JOB NO.: 14002  
 DRAWN BY: LMM  
 ISSUED: OCT 10, 2014

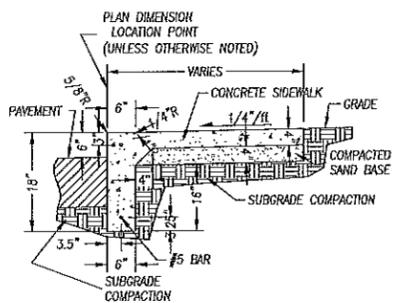
**C6**



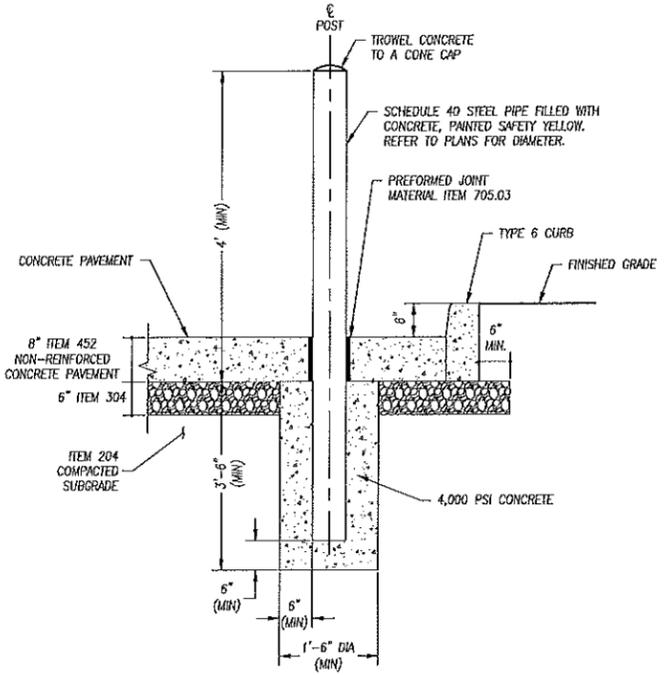
**CONCRETE PAVEMENT SECTION**  
NOT TO SCALE



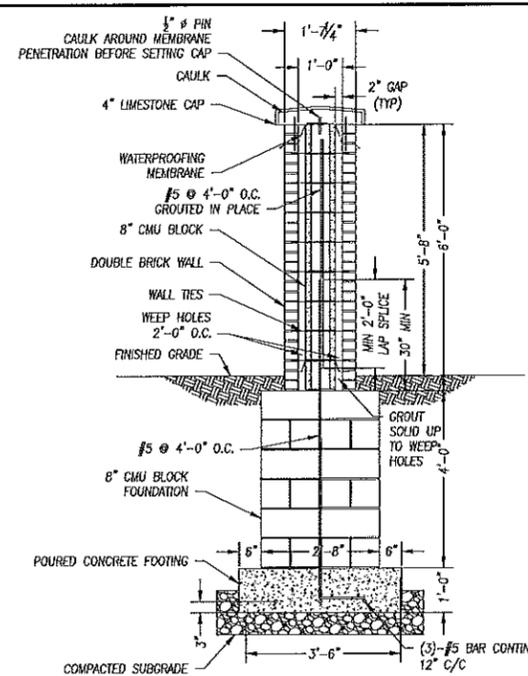
**HEAVY PAVEMENT SECTION**  
NOT TO SCALE



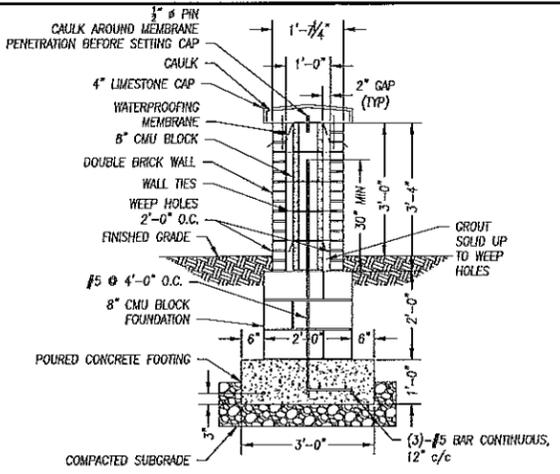
**INTEGRAL CURB AND WALK**  
NOT TO SCALE



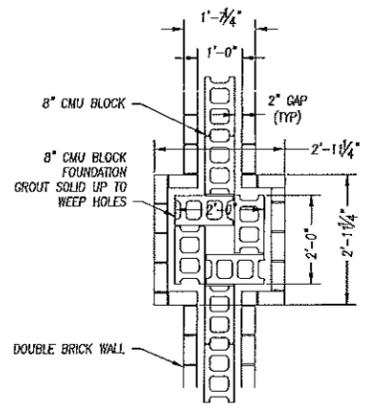
**PIPE BOLLARD**  
NOT TO SCALE



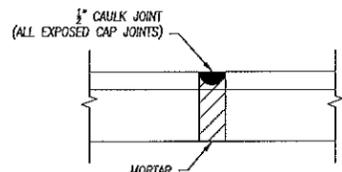
**6' WALL SECTION**  
SCALE: 1/2" = 1'-0"



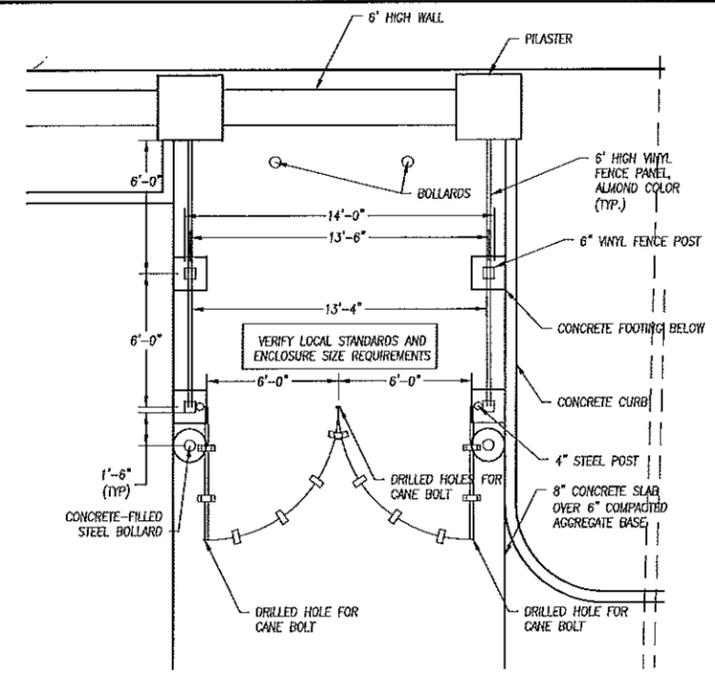
**3' WALL SECTION**  
SCALE: 1/2" = 1'-0"



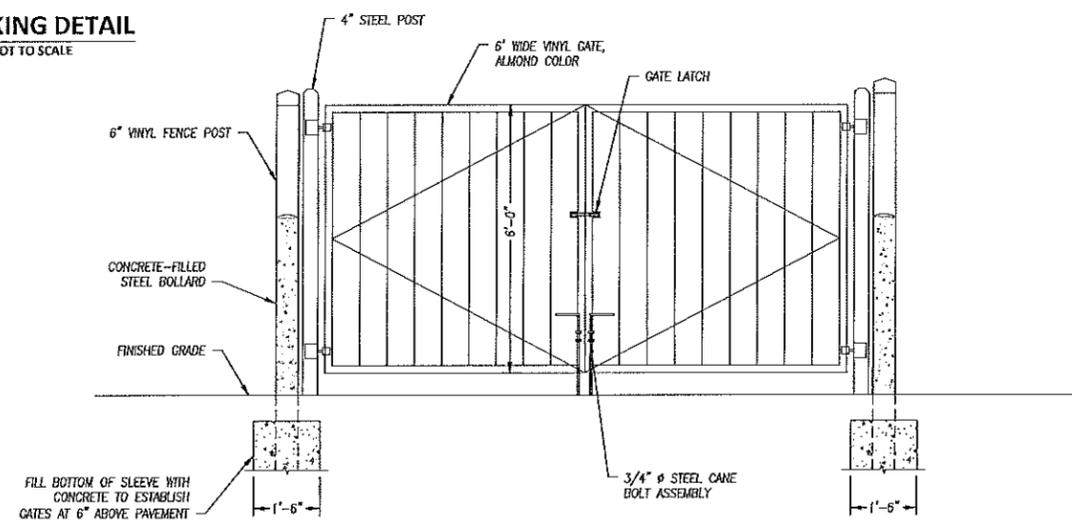
**BRICK PILASTER DETAIL**  
SCALE: 1/2" = 1'-0"



**CAULKING DETAIL**  
NOT TO SCALE



**DUMPSTER ENCLOSURE PLAN**  
SCALE: NTS



**DUMPSTER ELEVATION**  
SCALE: NTS

STATE OF OHIO  
ROBERT W. BAILEY  
E-62836  
Professional Engineer  
October 14, 2014

NO	REVISION	DATE
0		
1		
2		
3		
4		
5		
6		
7		
8		

**DGL**  
CONSULTING ENGINEERS, LLC  
3455 BRIARFIELD BLVD., SUITE E  
MAUMEE, OH 43537  
PHONE: 419.535.2015  
www.dgl-tdc.com

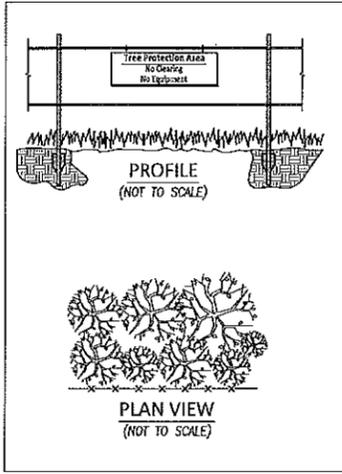
**WEST BROADWAY STREET  
MAUMEE PARKING LOT**  
109 BROADWAY STREET  
MAUMEE, OH 43537  
LUCAS COUNTY  
SECTION TOWN RANGE

FILE: 14002 CD.dwg  
JOB NO.: 14002  
DRAWN BY: LMM  
ISSUED: OCT 10, 2014

**C7**

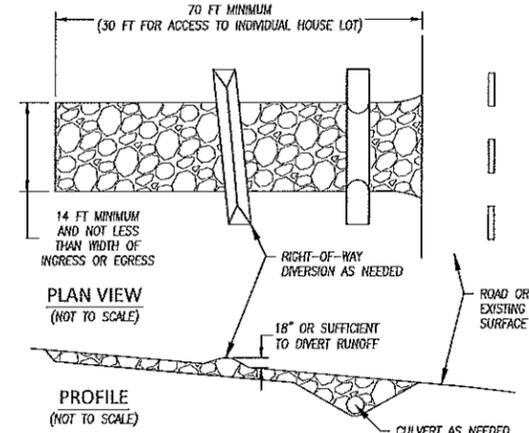
PLOTTED: Oct 14, 2014 - 6:22am  
DRAWING: M:\14002 (City of Maumee - Broadway Parking Lot)\Civil\Draw\14002 CD.dwg; C7 DETAILS BROADWAY

### 5 TREE AND NATURAL AREA PRESERVATION



- TREE AND NATURAL AREA PRESERVATION SHALL BE FENCED PRIOR TO BEGINNING CLEARING OPERATIONS.
- FENCE MATERIALS SHALL BE METAL FENCE POSTS WITH TWO STRANDS OR HIGH TENSILE WIRE, PLASTIC FENCE, OR SNOW FENCE.
- SIGNAGE SHALL CLEARLY IDENTIFY THE TREE AND NATURAL PRESERVATION AREA AND STATE THAT NO CLEARING OR EQUIPMENT IS ALLOWED WITHIN IT.
- FENCE SHALL BE PLACED AS SHOWN ON PLANS AND BEYOND THE DRIP LINE OR CANOPY OF TREES TO BE PROTECTED.
- IF ANY CLEARING IS DONE AROUND SPECIMEN TREES IT SHALL BE DONE BY CUTTING AT GROUND LEVEL WITH HAND HELD TOOLS AND SHALL NOT BE GRUBBED OR PULLED OUT. NO CLEARING SHALL BE DONE IN BUFFER STRIPS OR OTHER PRESERVED FORESTED AREAS.
- NO FILLING OR STOCKPILING OF MATERIALS SHALL OCCUR WITHIN THE TREE PROTECTION AREAS, INCLUDING DEPOSITION OF SEDIMENT.

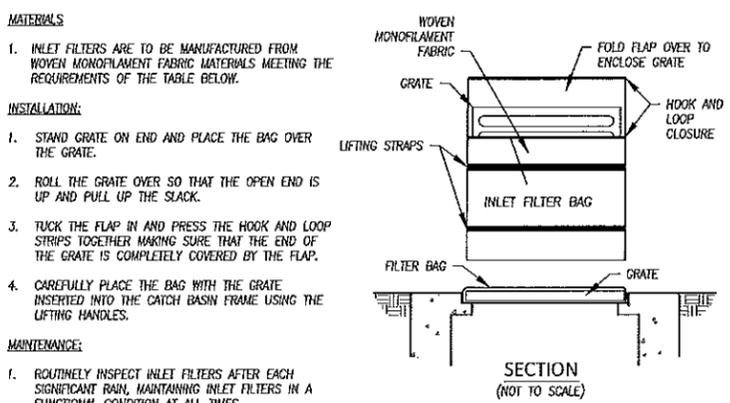
### 2 CONSTRUCTION ENTRANCE



- STONE SIZE - ODD #2 (1.5 - 2.5 INCH) STONE SHALL BE USED, OR RECYCLED CONCRETE EQUIVALENT.
- 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.
- WIDTH - THE ENTRANCE SHALL BE AT LEAST 14 FEET WIDE, BUT NOT LESS THAN THE FULL FINAL WIDTH AT POINTS WHERE INGRESS AND EGRESS OCCURS.
- GEOTEXTILE - A GEOTEXTILE SHALL BE LAID OVER THE ENTIRE AREA PRIOR TO PLACING STONE. IT SHALL BE COMPOSED OF STRONG, NOT-PROOF POLYMERIC FIBERS AND MEET THE FOLLOWING SPECIFICATIONS:
- TIMING - THE CONSTRUCTION ENTRANCE SHALL BE INSTALLED AS SOON AS IS PRACTICABLE BEFORE MAJOR GRADING ACTIVITIES.
- CULVERT - A PIPE OR CULVERT SHALL BE CONSTRUCTED UNDER THE ENTRANCE IF NEEDED TO PREVENT SURFACE WATER FROM FLOWING ACROSS THE ENTRANCE OR TO PREVENT RUNOFF FROM BEING DIRECTED OUT ONTO PAVED SURFACES.
- WATER BAR - A WATER BAR SHALL BE CONSTRUCTED AS PART OF THE CONSTRUCTION ENTRANCE IF NEEDED TO PREVENT SURFACE RUNOFF FROM FLOWING THE LENGTH OF THE CONSTRUCTION ENTRANCE AND OUT ONTO PAVED SURFACES.
- MAINTENANCE - TOP DRESSING OF ADDITIONAL STONE SHALL BE APPLIED AS CONDITIONS DEMAND. MUD SPILLED, DROPPED, WASHED, OR TRACKED ONLY PUBLIC ROADS, OR ANY SURFACE WHERE RUNOFF IS NOT CHECKED BY SEDIMENT CONTROLS, SHALL BE REMOVED IMMEDIATELY. REMOVAL SHALL BE ACCOMPLISHED BY SCRAPING OR SWEEPING.
- CONSTRUCTION ENTRANCES SHALL NOT BE RELIED UPON TO REMOVE MUD FROM VEHICLES AND PREVENT OFF-SITE TRACKING. VEHICLES THAT ENTER AND LEAVE THE CONSTRUCTION SITE SHALL BE RESTRICTED FROM MUDDY AREAS.
- REMOVAL - THE ENTRANCE SHALL REMAIN IN PLACE UNTIL THE DISTURBED AREA IS STABILIZED OR REPLACED WITH A PERMANENT ROADWAY OR ENTRANCE.

GEOTEXTILE SPECIFICATION FOR CONSTRUCTION ENTRANCE	
MINIMUM TENSILE STRENGTH	200 LBS.
MINIMUM PUNCTURE STRENGTH	80 PSL
MINIMUM TEAR STRENGTH	50 LBS.
MINIMUM BURST STRENGTH	320 PSL
MINIMUM ELONGATION	20%
EQUIVALENT OPENING SIZE	EOS < 0.6 MM.
PERMITTIVITY	1x10 <sup>-3</sup> CM/SEC.

### 4 MANUFACTURED INLET FILTER



- MATERIALS**
- INLET FILTERS ARE TO BE MANUFACTURED FROM WOVEN MONOFILAMENT FABRIC MATERIALS MEETING THE REQUIREMENTS OF THE TABLE BELOW.
- INSTALLATION:**
- STAND GRATE ON END AND PLACE THE BAG OVER THE GRATE.
  - ROLL THE GRATE OVER SO THAT THE OPEN END IS UP AND PULL UP THE SLACK.
  - TUCK THE FLAP IN AND PRESS THE HOOK AND LOOP STRIPS TOGETHER MAKING SURE THAT THE END OF THE GRATE IS COMPLETELY COVERED BY THE FLAP.
  - CAREFULLY PLACE THE BAG WITH THE GRATE INSERTED INTO THE CATCH BASIN FRAME USING THE LIFTING HANDLES.
- MAINTENANCE:**
- ROUTINELY INSPECT INLET FILTERS AFTER EACH SIGNIFICANT RAIN, MAINTAINING INLET FILTERS IN A FUNCTIONAL CONDITION AT ALL TIMES.
  - REMOVE SILT, SEDIMENT, AND DEBRIS FROM THE SURFACE AND THE VICINITY OF THE UNIT WITH A SQUARE POINT SHOVEL OR STIFF BRISTLE BROOM. REMOVE FINE MATERIAL FROM INSIDE THE FILTER BAG AS NEEDED.
  - KEEP MATERIAL AWAY FROM ENVIRONMENTALLY SENSITIVE AREAS AND WATERWAYS IN A MANNER SATISFACTORY TO THE ENGINEER/INSPECTOR.
  - REPLACE AND DISPOSE OF FILTER BAGS DAMAGED WHICH ARE NO LONGER EFFECTIVE.
  - WHERE THE INLET FILTER DETERIORATES OR FAILS, IT SHALL BE REPAIRED OR REPLACED WITH A MORE EFFECTIVE SOLUTION.
  - REMOVE INLET FILTERS FROM THE SITE WHEN NO LONGER REQUIRED.

INLET FILTER SPECIFICATIONS		
MECHANICAL PROPERTIES	TEST METHOD	MARV
GRAB TENSILE STRENGTH	ASTM D 4632	365 LBS X 200 LBS
GRAB TENSILE ELONGATION	ASTM D 4632	24% X 10%
PUNCTURE STRENGTH	ASTM D 4633	99 LBS
MULLER BURST STRENGTH	ASTM D 3786	450 PSI
TRAPEZOID TEAR STRENGTH	ASTM D 4533	115 LBS X 75 LBS
UV RESISTANCE	ASTM D 4355	90 %
APPARENT OPENING SIZE	ASTM D 4751	NO 40 (US STD SIEVE)
FLOW RATE	ASTM D 4491	145 GAL/MIN/SQ FT
PERMITTIVITY	ASTM D 4491	2.1/SEC

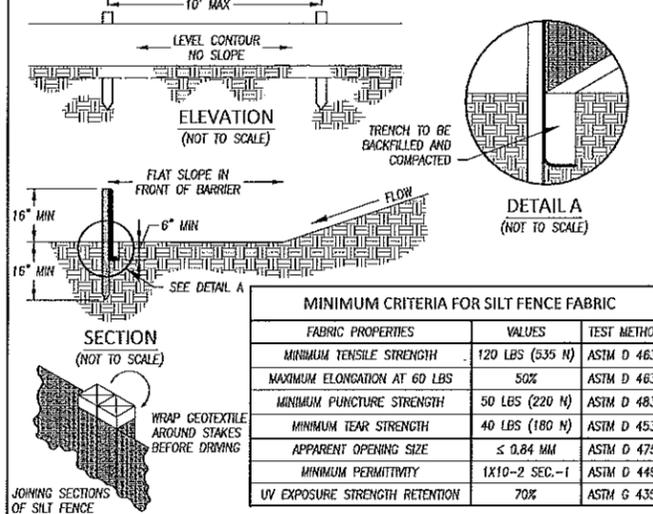
### 1 SEEDING AND MULCHING

SPREAD 4 TO 6 INCHES OF TOPSOIL.  
 FERTILIZE ACCORDING TO SOIL TEST (OR APPLY 10 LB/1000 SQ. FT. OF 20-10-10 OR 10-10-10 FERTILIZER.)  
 SEED WITH AN APPROPRIATE MIX FOR THE SITE (SEE TABLE.) RAKE LIGHTLY TO COVER SEED WITH 1/4" OF SOIL. ROLL LIGHTLY.  
 MULCH WITH STRAW (70-90 LB. OR ONE BALE PER 1000 SQ. FT.)  
 ANCHOR MULCH BY PUNCHING 2 INCHES INTO THE SOIL WITH A DULL, WEIGHTED DISK OR BY USING NETTING OR OTHER MEASURES ON STEEP SLOPES, OR WINDY AREAS. WATER GENTLY EVERY DAY OR TWO TO KEEP SOIL MOIST. LESS WATERING IS NEEDED ONCE GRASS IS 2 INCHES TALL.

TEMPORARY SEEDING SPECIES SELECTION			
SEEDING DATES	SPECIES	LB/1,000 FT <sup>2</sup>	LB/ACRE
MARCH 1 TO AUGUST 15	OATS	3	128 (4 BUSHEL)
	TALL FESCUE	1	40
	ANNUAL RYEGRASS	1	40
	PERENNIAL RYEGRASS	1	40 LB.
	TALL FESCUE	1	40 LB.
	ANNUAL RYEGRASS	1	40 LB.
	ANNUAL RYEGRASS	1.25	55
	PERENNIAL RYEGRASS	3.25	142
	CREEPING RED FESCUE	0.4	17
	KENTUCKY BLUEGRASS	0.4	17
AUGUST 16 TO NOVEMBER 1	RYE	3	112 (2 BUSHEL)
	TALL FESCUE	1	40 LB.
	ANNUAL RYEGRASS	1	40 LB.
	WHEAT	3	120 (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.
	PERENNIAL RYEGRASS	1.25	40
PERENNIAL RYEGRASS	3.25	40	
CREEPING RED FESCUE	0.4	40	
KENTUCKY BLUEGRASS	0.4	40	
NOVEMBER 1 TO FEBRUARY 29	USE MULCH ONLY OR DORMANT SEEDING.		

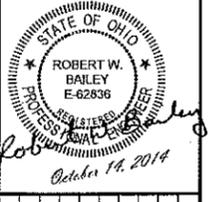
NOTE: OTHER APPROVED SEED SPECIES MAY BE SUBSTITUTED. PERMANENT SEEDING TO BE AS PER LANDSCAPING PLANS.

### 3 SILT FENCE



MINIMUM CRITERIA FOR SILT FENCE FABRIC		
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 4633
MINIMUM TEAR STRENGTH	40 LBS (180 N)	ASTM D 4533
APPARENT OPENING SIZE	≤ 0.84 MM	ASTM D 4751
MINIMUM PERMITTIVITY	1X10 <sup>-2</sup> SEC.-1	ASTM D 4491
UV EXPOSURE STRENGTH RETENTION	70%	ASTM G 4355

- MATERIALS:**
- FENCE POST - THE LENGTH SHALL BE A MINIMUM OF 32 INCHES. WOOD POSTS WILL BE 2-BY-2-IN. NOMINAL DIMENSIONED HARDWOOD OF SOUND QUALITY. THEY SHALL BE FREE OF KNOTS, SPLITS, AND OTHER VISIBLE IMPERFECTIONS THAT WILL WEAKEN THE POSTS. THE MAXIMUM SPACING BETWEEN POSTS SHALL BE 10 FT. POSTS SHALL BE DRIVEN A MINIMUM 16 INCHES INTO THE GROUND, WHERE POSSIBLE. IF NOT POSSIBLE, THE POSTS SHALL BE ADEQUATELY SECURED TO PREVENT OVERTURNING OF THE FENCE DUE TO SEDIMENT/WATER LOADING.
  - SILT FENCE FABRIC - SEE CHART.
- INSTALLATION:**
- SILT FENCE SHALL BE CONSTRUCTED BEFORE UPSLOPE LAND DISTURBANCE BEGINS.
  - ALL SILT FENCE SHALL BE PLACED AS CLOSE TO THE CONTOUR AS POSSIBLE SO THAT WATER WILL NOT CONCENTRATE AT LOW POINTS IN THE FENCE AND SO THAT SMALL SWALES OR DEPRESSIONS 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.
  - SILT FENCE SHALL BE PLACED ON THE FLATTEST AREA AVAILABLE.
  - WHERE POSSIBLE, VEGETATION SHALL BE PRESERVED FOR 5 FEET OR AS MUCH AS POSSIBLE UPSLOPE FROM THE SILT FENCE. IF VEGETATION IS REMOVED, IT SHALL BE REESTABLISHED WITHIN 7 DAYS FROM THE INSTALLATION OF THE SILT FENCE.
  - THE HEIGHT OF THE SILT FENCE SHALL BE A MINIMUM OF 16 INCHES ABOVE THE ORIGINAL GROUND SURFACE.
  - THE SILT FENCE SHALL BE PLACED IN AN EXCAVATED OR SLICED TRENCH CUT A MINIMUM OF 6 INCHES DEEP. THE TRENCH SHALL BE MADE WITH A TRENCHER, CABLE LAYING MACHINE, SLICING MACHINE, OR OTHER SUITABLE DEVICE THAT WILL ENSURE AN ADEQUATELY UNIFORM TRENCH DEPTH.
- MAINTENANCE:**
- SILT FENCE SHALL ALLOW RUNOFF TO PASS ONLY AS DIFFUSE FLOW THROUGH THE GEOTEXTILE. IF RUNOFF OVER-TOPS THE SILT FENCE, FLOWS UNDER THE FABRIC OR AROUND THE FENCE ENDS, OR IN ANY OTHER WAY ALLOWS A CONCENTRATED FLOW DISCHARGE, ONE OF THE FOLLOWING SHALL BE PERFORMED, AS APPROPRIATE:
    - THE LAYOUT OF THE SILT FENCE SHALL BE CHANGED
    - ACCUMULATED SEDIMENT SHALL BE REMOVED
    - OTHER PRACTICES SHALL BE INSTALLED
  - SEDIMENT DEPOSITS SHALL BE ROUTINELY REMOVED WHEN THE DEPOSIT REACHES APPROXIMATELY ONE-HALF OF THE HEIGHT OF THE SILT FENCE.
  - SILT FENCES SHALL BE INSPECTED AFTER EACH RAINFALL AND AT LEAST DAILY DURING A PROLONGED RAINFALL. THE LOCATION OF EXISTING SILT FENCE SHALL BE REVIEWED DAILY TO ENSURE ITS PROPER LOCATION AND EFFECTIVENESS.
  - IF DAMAGED, THE SILT FENCE SHALL BE REPAIRED IMMEDIATELY.
- REMOVAL:**
- REMOVE SILT FENCE ONCE THE AREA UPSLOPE OF THE SILT FENCE HAS BEEN STABILIZED WITH PERMANENT INSTALLATIONS SUCH AS PAVEMENT, BUILDINGS, LANDSCAPING, OR OTHER VEGETATION.



NO	REVISION	DATE
1		
2		
3		
4		
5		
6		
7		
8		
9		



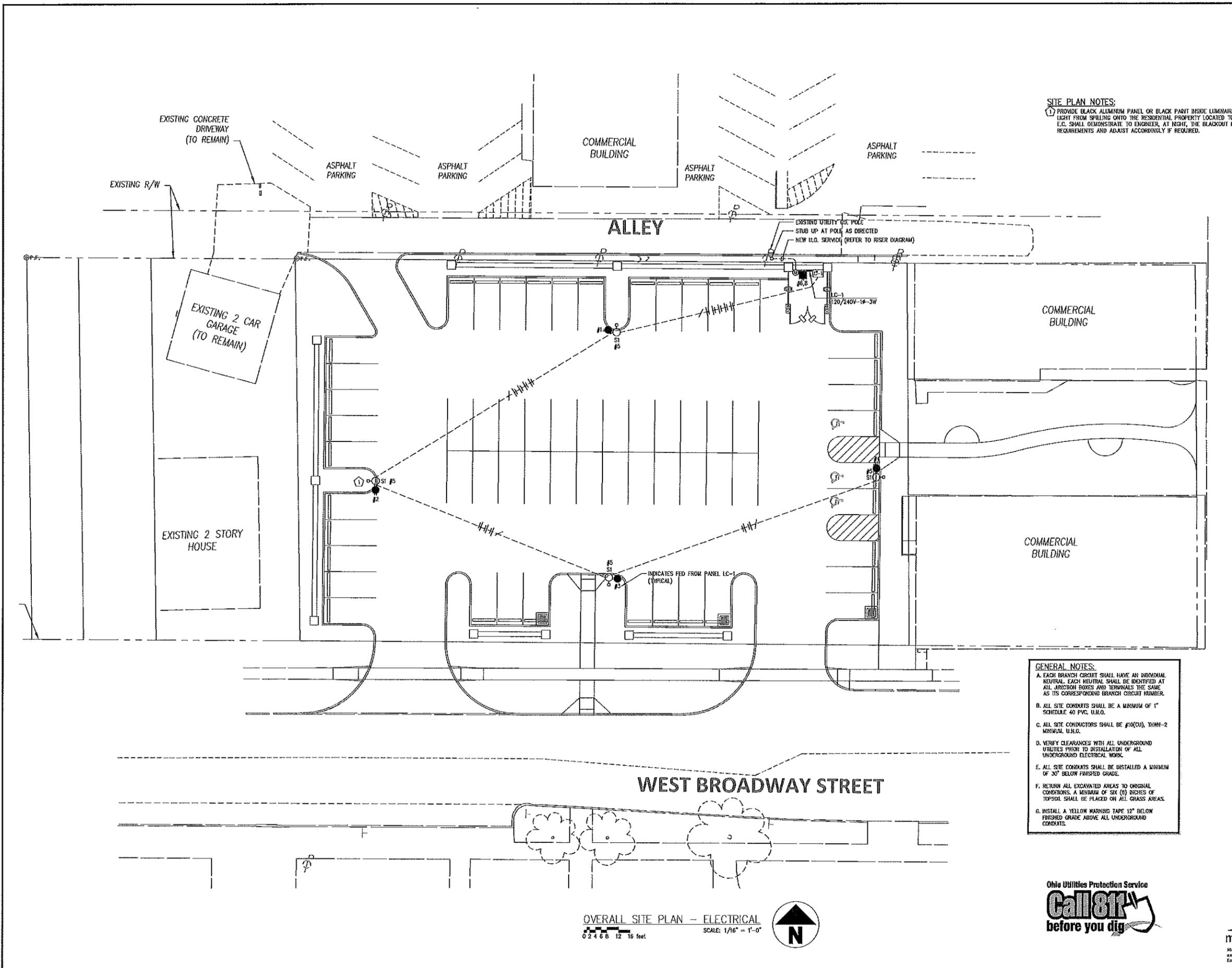
**WEST BROADWAY STREET  
 MAUMEE PARKING LOT**  
 109 BROADWAY STREET  
 MAUMEE, OH 43537  
 LUCAS COUNTY  
 SECTION TOWN RANGE

**EROSION CONTROL DETAILS**

FILE: 14002 CD.dwg  
 JOB NO.: 14002  
 DRAWN BY: LMM  
 ISSUED: OCT 10, 2014

**C8**

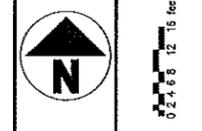




**SITE PLAN NOTES:**  
 1. PROVIDE BLACK ALUMINUM PANEL OR BLACK PAINT INSIDE LUMINAIRE TO PREVENT LIGHT FROM SPILLING ONTO THE RESIDENTIAL PROPERTY LOCATED TO THE WEST. E.G. SHALL DEMONSTRATE TO ENGINEER, AT RISK, THE BLACKOUT MEETS THE REQUIREMENTS AND ADJUST ACCORDINGLY IF REQUIRED.

**GENERAL NOTES:**  
 A. EACH BRANCH CIRCUIT SHALL HAVE AN INDIVIDUAL NEUTRAL. EACH NEUTRAL SHALL BE IDENTIFIED AT ALL JUNCTION BOXES AND TERMINALS THE SAME AS ITS CORRESPONDING BRANCH CIRCUIT NUMBER.  
 B. ALL SITE CONDUITS SHALL BE A MINIMUM OF 1" SCHEDULE 40 PVC, U.N.O.  
 C. ALL SITE CONDUCTORS SHALL BE #10(CU), THHN-2 MINIMUM, U.N.O.  
 D. VERIFY CLEARANCES WITH ALL UNDERGROUND UTILITIES PRIOR TO INSTALLATION OF ALL UNDERGROUND ELECTRICAL WORK.  
 E. ALL SITE CONDUITS SHALL BE INSTALLED A MINIMUM OF 30" BELOW FINISHED GRADE.  
 F. RETURN ALL EXCAVATED AREAS TO ORIGINAL CONDITIONS. A MINIMUM OF SIX (6) INCHES OF TOPSOIL SHALL BE PLACED ON ALL GRASS AREAS.  
 G. INSTALL A YELLOW WARNING TAPE 12" BELOW FINISHED GRADE ABOVE ALL UNDERGROUND CONDUITS.

OVERALL SITE PLAN - ELECTRICAL  
 SCALE: 1/16" = 1'-0"  
 0 2 4 6 8 12 16 feet



NO	REVISION	DATE
1		
2		
3		
4		
5		
6		
7		
8		
9		

**DGL CONSULTING ENGINEERS, LLC**  
 3455 BRIARFIELD BLVD, SUITE E  
 MAUMEE, OH 43537  
 PHONE: 419-535-1015  
 www.dgl-td.com

**CITY OF MAUMEE  
 PARKING LOT**  
 109 BROADWAY STREET  
 MAUMEE, OH 43537  
 LUCAS COUNTY  
 SECTION TOWN RANGE

**OVERALL SITE PLAN - ELECTRICAL**  
 FILE: E14076SP  
 JOB NO.: 14011  
 DRAWN BY: NJS  
 ISSUED: OCT. 10, 2014



**mda engineering, inc.**  
 Mechanical and Electrical Engineers  
 1415 Holland Road  
 Maumee, Ohio 43517  
 Phone: (419) 893-3141  
 Fax: (419) 893-0687  
 MD E-0078

**E2**