

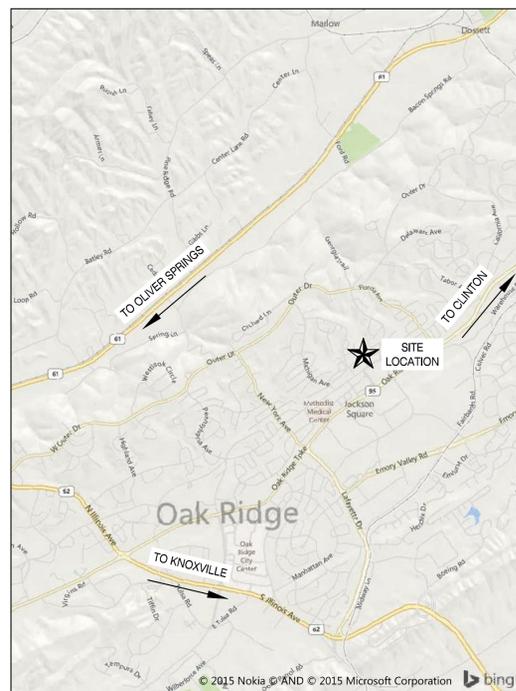
# RESURFACING & ADA IMPROVEMENTS FOR: BLANKENSHIP FIELD PARKING LOT

BROADWAY AVENUE  
OAK RIDGE, TENNESSEE 37830

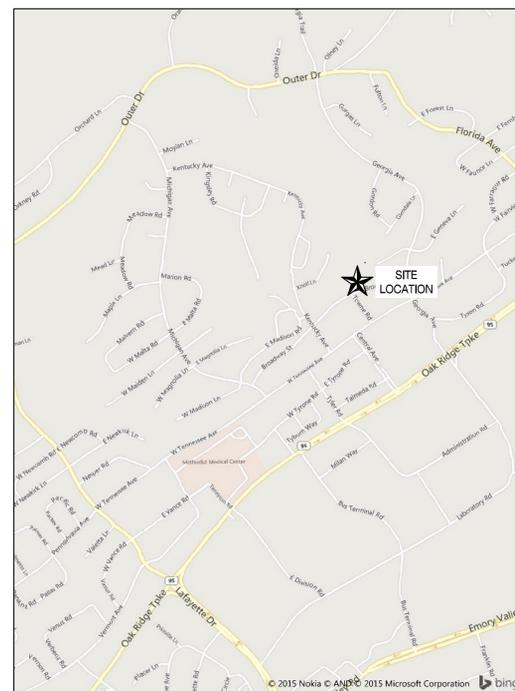
# Michael Brady Inc.

Architecture · Engineering · Interiors

VICINITY MAP



LOCATION MAP



PROJECT INFORMATION:

OWNER: CITY OF OAK RIDGE  
BOX 1  
OAK RIDGE, TENNESSEE 37830

VERTICAL DATUM: NAVD88

LIST OF DRAWINGS:

- GENERAL  
CVR COVER SHEET
- SURVEY  
SS1.1 SITE SURVEY
- GENERAL  
C0.1 CIVIL LEGENDS & NOTES  
C0.3 OVERALL SITE PLAN
- CIVIL AND SITE ENGINEERING  
C2.0 SITE DEMOLITION PLAN  
C3.0 SITE LAYOUT PLAN  
C4.0 SITE GRADING, DRAINAGE & UTILITY PLAN  
C7.1 CIVIL DETAILS  
C7.2 CIVIL DETAILS  
C7.3 CIVIL DETAILS

**MBI**  
299 N. WEISGARBER RD.  
KNOXVILLE, TENNESSEE  
37919  
PHONE: 865 584 0999  
FAX: 865 584 5213  
www.michaelbradyinc.com  
michael brady inc.  
architecture, engineering, interiors.

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RESURFACING & ADA IMPROVEMENTS FOR:  
**BLANKENSHIP FIELD PARKING LOT**  
BROADWAY AVENUE  
OAK RIDGE, TENNESSEE 37830

THIS DRAWING HAS BEEN ISSUED:  
 FOR REVIEW ONLY  
 FOR PERMITTING ONLY  
 SCHEMATIC DESIGN  
 DESIGN DEVELOPMENT  
 CONSTRUCTION DOCUMENTS

Drawing Title:  
COVER SHEET

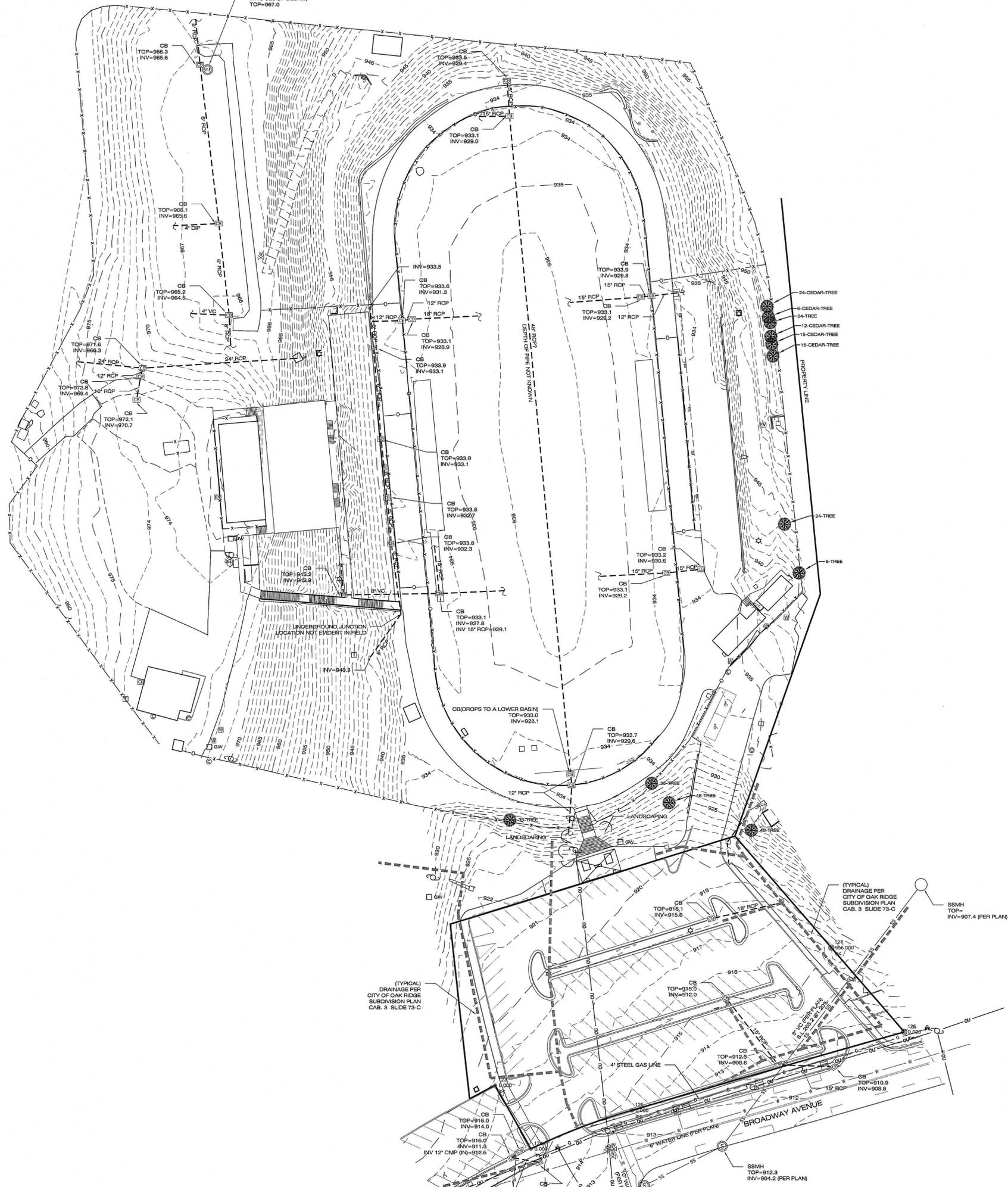
Date: 05/07/2015

Designed By: D.J.M.  
Drawn By: J.S.B.  
Reviewed By: D.J.M.

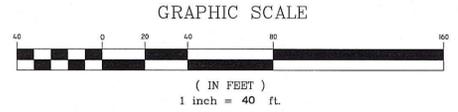
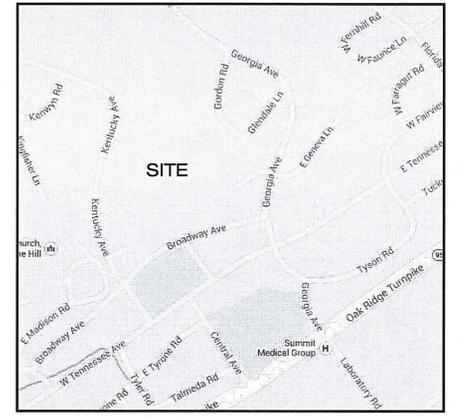
Comm. No. 140398

Revisions:

Sheet:  
of  
Sheet  
No.  
CVR



- LEGEND**
- (XX) - MONUMENT (OLD)
  - (XX) - MONUMENT (NEW)
  - ### - SPOT ELEVATION
  - - SLOPE
  - ☆ - LIGHT STANDARD
  - ⊞ - ELECTRIC BOX
  - ⊞ - UTILITY POLE
  - - OVERHEAD UTILITY LINE
  - GW - GUY WIRE
  - ⊞ - TELEPHONE PEDESTAL
  - ⊞ - UNDERGROUND TELEPHONE LINE
  - ⊞ - SANITARY SEWER MANHOLE
  - SS - SANITARY SEWER LINE
  - ⊞ - CLEAN OUT
  - ⊞ - WATER VALVE
  - ⊞ - WATER METER
  - W - WATER LINE
  - ⊞ - POST INDICATOR VALVE
  - ⊞ - GAS VALVE
  - G - GAS LINE
  - ⊞ - CATCH BASIN
  - ⊞ - STORM LID
  - ⊞ - CORRUGATED METAL PIPE
  - ⊞ - CORRUGATED PLASTIC PIPE
  - ⊞ - REINFORCED CONCRETE PIPE
  - - BOLLARD
  - ⊞ - # OF REGULAR PARKING SPACES
  - ⊞ - GREASE TRAP
  - ⊞ - ELECTRIC VAULT



- GENERAL NOTES**
- (G1) VERIFY EXACT SIZE, DEPTH AND LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION.
  - (G2) PROPERTY SUBJECT TO ALL APPLICABLE EASEMENTS, SETBACKS, AND RESTRICTIONS OF RECORD.
  - (G3) VERIFY CURRENT ZONING WITH APPROPRIATE GOVERNMENT PLANNING AGENCY PRIOR TO ANY SITE DESIGN AND/OR CONSTRUCTION.
  - (G4) THIS SURVEY PLAT DOES NOT WARRANT TITLE.
  - (G5) ELEVATIONS ARE BASED ON TN STATE GRID, NAVD88.
  - (G6) BY GRAPHIC PLOTTING, THIS PROPERTY LIES IN ZONE X ON FEMA FIRM PANEL #47001C0236F, WHICH BEARS AN EFFECTIVE DATE OF JANUARY 17, 2007, AND IS NOT IN A SPECIAL FLOOD HAZARD AREA.

- UTILITY INFORMATION**
- |   |  |  |
|---|--|--|
| <b>ELECTRIC SERVICE</b><br>Utility Business Office<br>100 Woodbury Lane<br>Oak Ridge, TN 37830<br>PHONE: 865-425-3400 | <b>WATER SERVICE</b><br>Public Works Department<br>100 Woodbury Lane<br>Oak Ridge, TN 37830<br>PHONE: 865-425-1875 | <b>SEWER SERVICE</b><br>Public Works Department<br>100 Woodbury Lane<br>Oak Ridge, TN 37830<br>PHONE: 865-425-1875 |
| <b>GAS SERVICE</b><br>Oak Ridge Utility District<br>603 Scarboro Road<br>Oak Ridge, TN 37830<br>PHONE: 865-482-4552   |  |  |
- (U1) UTILITY INFORMATION AS SHOWN ON THIS SURVEY IS REPRESENTED BY A COMBINATION OF AVAILABLE MAPS AND FEATURES EVIDENT DURING THE FIELD SURVEY ONLY.
  - (U2) VERIFY EXACT SIZE, DEPTH AND LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO DESIGN AND/OR CONSTRUCTION.
  - (U3) NOTIFY TENNESSEE ONE-CALL SYSTEM, INC. FOR UNDERGROUND UTILITY LOCATION BEFORE YOU DIG.
  - (U4) ALL ON-SITE UTILITIES ARE MAINTAINED BY THE OAK RIDGE CITY SCHOOL SYSTEM.

- ZONING INFORMATION**
- (Z1) PROPERTY IS ZONED RG-1 (Residential, Open Space and Reserved Districts)
  - (Z2) BUILDING SETBACKS:  
FRONT - 50 Feet  
SIDE - 50 Feet (1 Side) 100 Feet (Total of 2 Sides)  
REAR - 50 Feet
  - (Z3) VERIFY FULL ZONING REGULATIONS BY CONTACTING:  
Community Development  
Municipal Building 200 South Tulane Avenue  
Oak Ridge, TN 37830  
Phone: 865-425-3531

**SURVEYOR'S CERTIFICATION**

I HEREBY CERTIFY THAT 98% OF THE CONTOURS/SPOT ELEVATIONS SHOWN HEREON ARE WITHIN 1/2 (ONE-HALF) OF THE CONTOUR INTERVAL AS SHOWN HEREON.

2-7-14

JOHN PATTESON, RLS  
TN REG NO. 1829



**MBI**  
289 N. WESCAMBER RD.  
KNOXVILLE, TENNESSEE  
37919  
PHONE: 865 664 0699  
FAX: 865 664 5213  
www.michaelbradyinc.com

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BEFORE YOU DIG  
**STOP**  
CALL  
1-800-351-3111  
TENNESSEE ONE CALL  
IT'S THE LAW

**OWNER:**  
OAK RIDGE CITY SCHOOLS  
JEFFERSON JHS  
Box 1  
OAK RIDGE, TN 37830

TOPOGRAPHIC SURVEY OF:  
**JACK ARMSTRONG STADIUM RENOVATIONS**  
104 KENTUCKY AVENUE  
OAK RIDGE, TENNESSEE 37830

2ND CIVIL DISTRICT  
ANDERSON COUNTY, TN  
CITY OF OAK RIDGE, TN

TAX PARCEL ID:  
MAP 094P 'D' PARCEL  
010.00  
DEED REF(S):  
N/A  
PLAT REF.(S):  
BLOCK 0E17 Lot 260

CREW CHIEF: Z. BEASON  
DRAWN BY: D. HOOD  
APP'D. BY: J. PATTESON

FIELD DATE: 2-7-14  
DRAWING DATE: 2-7-14  
LAST REVISION:

SCALE: 1" = 40'

JOB No. 140150

SHEET: 1 OF 1

**GENERAL NOTES**

1. COMPLY WITH ALL PERTINENT PROVISIONS OF THE "MANUAL OF ACCIDENT PREVENTION IN CONSTRUCTION" ISSUED BY A.G.C. OF AMERICA, INC. AND THE SAFETY AND HEALTH REGULATIONS FOR CONSTRUCTION ISSUED BY THE U.S. DEPARTMENT OF LABOR, 29 CFR 1926 OSHA.
2. THE APPROPRIATE TRAFFIC CONTROL SIGNS AS DEFINED BY THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, F.H.W.A., 2003" SHALL BE INSTALLED AT THE INCEPTION OF CONSTRUCTION AND SHALL BE PROPERLY MAINTAINED AND/OR OPERATED DURING THE TIME SUCH SPECIAL CONDITIONS EXIST. THEY SHALL REMAIN IN PLACE ONLY AS LONG AS THEY ARE NEEDED AND SHALL BE REMOVED IMMEDIATELY AFTER THEIR NEED.
3. NOTHING IN THE GENERAL NOTES OR SPECIAL PROVISIONS SHALL RELIEVE THE CONTRACTOR FROM THEIR RESPONSIBILITIES TOWARD THE SAFETY AND CONVENIENCE OF THE GENERAL PUBLIC.
4. VERIFY THE LOCATIONS OF ALL PROPOSED ITEMS PRIOR TO COMMENCING CONSTRUCTION. NOTIFY A/E IMMEDIATELY OF ANY DISCREPANCIES BEFORE STARTING WORK. COMMENCEMENT OF CONSTRUCTION AFTER SUCH DISCOVERY SHALL BE AT THE CONTRACTOR'S RISK.
5. ANY AREA THAT IS DISTURBED OUTSIDE THE LIMITS OF CONSTRUCTION DURING THE LIFE OF THE PROJECT SHALL BE REPAIRED BY THE CONTRACTOR AT THEIR EXPENSE.
6. ALL WORK AND CONSTRUCTION MATERIALS SHALL MEET THE REQUIREMENTS OF THE TENNESSEE DEPARTMENT OF TRANSPORTATION'S STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.

**DEMOLITION NOTES**

1. DO ALL DEMOLITION WORK REQUIRED TO REMOVE EXISTING MASONRY WALLS, PAVING, FOUNDATIONS, CONCRETE SLABS, EXISTING UNDERGROUND PIPING, CONDUIT AS SHOWN ON THE DRAWINGS AND ANY OTHER NECESSARY ITEMS TO INSTALL THE PROPOSED WORK.
2. CONTRACTORS SUBMITTING PROPOSALS SHALL DETERMINE THE QUANTITIES OF DEMOLITION WORK REQUIRED BY FIELD INVESTIGATION OF THE BUILDING AND SITE.
3. MAINTAIN TEMPORARY BARRICADES FOR PROTECTION OF JOB PERSONNEL AND THE PUBLIC. REMOVE BARRICADES WHEN NO LONGER REQUIRED.
4. CONDUCT OPERATIONS IN SUCH A MANNER AS TO MINIMIZE INTERFERENCE WITH USE OF PUBLIC WAYS AND ADJACENT USED FACILITIES. DO NOT CLOSE, BLOCK OR OTHERWISE OBSTRUCT USE OF PUBLIC WAYS OR FACILITIES WITHOUT WRITTEN CONSENT OF AUTHORITIES HAVING JURISDICTION. PROVIDE ALTERNATIVE ROUTES TO CLOSED OR OBSTRUCTED FACILITIES AS REQUIRED BY LOCAL REGULATIONS.
5. EXISTING UTILITIES INDICATED TO REMAIN SHALL BE KEPT IN SERVICE AND PROTECTED FROM DAMAGE DURING DEMOLITION OPERATIONS.
6. DO NOT INTERRUPT EXISTING UTILITIES USED OR OCCUPIED FACILITIES UNLESS AUTHORIZED IN WRITING BY AUTHORITIES HAVING JURISDICTION IF INTERRUPTION IS ALLOWED, PROVIDE ALTERNATIVE TEMPORARY SERVICES ACCEPTABLE TO GOVERNING AUTHORITIES.
7. LOCATE, IDENTIFY, SHUT OFF, CAP AND DISCONNECT UTILITIES AT PROPERTY LINE OR VALVE AS REQUIRED. PROVIDE BY-PASS CONNECTIONS AS REQUIRED TO MAINTAIN SERVICES TO ADJACENT PROPERTIES AND FACILITIES. PROVIDE A MINIMUM OF 72 HOURS ADVANCE NOTICE TO PROPERTY OWNERS IF SHUT-DOWN OF SERVICES IS REQUIRED DURING THE CHANGE-OVER.
8. REMOVE DEBRIS, RUBBISH, AND OTHER SUBSTANCES FROM SITE. LEGALLY TRANSPORT AND DISPOSE OF SUCH MATERIALS OFF-SITE.
9. BURYING OR BURNING OF MATERIALS ON THE PROJECT SITE IS FORBIDDEN.
10. AVAILABILITY FOR DEMOLITION MUST BE CONFIRMED BY OWNER JUST PRIOR TO DEMOLITION.
11. COORDINATE WITH ALL UTILITY COMPANIES 48 HOURS PRIOR TO ANY DEMOLITION WORK.
12. THE USE OF EXPLOSIVES IS STRICTLY PROHIBITED.
13. HISTORIC ARTIFACTS, INCLUDING CORNERSTONES, THEIR CONTENTS, COMMEMORATIVE PLAQUES AND TABLETS, ANTIQUES, AND OTHER ITEMS OF SIGNIFICANCE SHALL REMAIN THE PROPERTY OF THE OWNER. NOTIFY OWNER'S REPRESENTATIVE IF SUCH ARTICLES ARE ENCOUNTERED. OBTAIN APPROVAL REGARDING METHOD OF REMOVAL. SALVAGE SUCH ARTICLES AND TURN OVER TO OWNER.
14. IF HAZARDOUS MATERIALS ARE ENCOUNTERED, COMPLY WITH APPLICABLE REGULATIONS IN HANDLING, REMOVING, AND PROTECTING AGAINST EXPOSURE OR ENVIRONMENTAL POLLUTION.
15. REGRADE ALL AREAS WHERE DEMOLITION HAS OCCURRED. PROVIDE SMOOTH TRANSITION BETWEEN EXISTING AND NEW GRADING. THERE SHALL NOT BE ANY VOIDS, PITS, OR MOUNDING OF EARTHWORK.

**SITE NOTES**

1. WHERE PROPOSED PAVEMENT ABUTS EXISTING PAVEMENT, THE EXISTING PAVEMENT SHALL BE CUT IN A NEAT STRAIGHT LINE THROUGH PAVEMENT AND BASE. PROVIDE A SMOOTH TRANSITION.
2. INSTALL EXPANSION JOINT MATERIAL BETWEEN NEW AND EXISTING CONCRETE AND/OR ASPHALT.
3. MAINTAIN AND PROTECT EXISTING PAVEMENT OR GRAVEL SURFACES WHICH ARE TO REMAIN. CONTRACTOR SHALL REPLACE DAMAGED AREAS, MATCHING DEPTH, MATERIAL AND GRADE OF EXISTING SURFACES.
4. DIMENSIONS SHOWN ARE TO FACE OF CURB OR CENTER OF PAINTED STRIPES.
5. SIDEWALK AND PAVING JOINTS ARE SHOWN FOR REFERENCE ONLY. REVIEW JOINT LAYOUT WITH ALL SPECIFICATIONS AND DETAILS BEFORE POURING CONCRETE.

**SURVEY NOTES**

1. BOUNDARY AND TOPOGRAPHIC INFORMATION WAS PREPARED BY MICHAEL BRADY INC, 299 N. WEISGARBER ROAD, KNOXVILLE TN 37919. SURVEY PERFORMED 02/07/2014.
2. COORDINATES ARE IN FEET AND REFERENCE TO TENNESSEE STATE PLANE SYSTEM OF 1983.
3. BEARINGS SHOWN ARE BASED ON MAGNETIC NORTH.
4. THE VERTICAL DATUM IS BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).
5. FIELD VERIFY THE LOCATIONS OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION. EXISTING UTILITIES SHOWN ON DRAWINGS ARE APPROXIMATE IN DEPTH AND LOCATION. REPAIR EXISTING UTILITIES DAMAGED DURING CONSTRUCTION AT NO COST TO THE OWNER.

**GRADING NOTES**

1. FIELD VERIFY CRITICAL GRADES AT CONNECTION POINTS SUCH AS ENTRANCES PRIOR TO CONSTRUCTION AND NOTIFY PROJECT MANAGER OR ENGINEER OF ANY DISCREPANCIES.
2. THE MINIMUM SLOPE FOR PARKING, SIDEWALKS, AND LANDSCAPED AREAS IS 1%. FIELD VERIFY MINIMUM SLOPE IS ACHIEVED.
3. MAXIMUM SLOPE IN HANDICAP PARKING AREAS IS 2%. MAXIMUM LONGITUDINAL SIDEWALK SLOPE IS 5%. SLOPE SIDEWALKS AWAY FROM BUILDING AT 1% CROSS SLOPE UNLESS OTHERWISE NOTED. SIDEWALK CROSS SLOPE CANNOT EXCEED 2% IN ANY CASE.
4. UNLESS OTHERWISE NOTED, ELEVATIONS SHOWN REPRESENT FINISHED GRADES. ADJUST FOR PAVEMENT THICKNESS, TOPSOIL, ETC.
5. ADJUST DRAINAGE STRUCTURE TOPS AS NECESSARY TO MATCH FINAL GRADES.
6. NO SLOPE SHALL BE STEEPER THAN 20H:1V.
7. ALL EARTHWORK SHALL MEET THE FOLLOWING REQUIREMENTS AT A MINIMUM:
  - A. FOLLOW RECOMMENDATIONS OF THE PROJECT SUBSURFACE INVESTIGATION REPORT. REPORT ANY CONTRADICTIONS TO THE PROJECT MANAGER.
  - B. OBTAIN CERTIFICATION FROM A TESTING LAB, SIGNED AND SEALED BY AN ENGINEER, STATING THAT ALL EARTHWORK IS IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND SUBSURFACE INVESTIGATION REPORT AND SOILS ARE CAPABLE OF SUPPORTING THE STRUCTURE AND IMPROVEMENTS.
  - C. SUBMIT SOIL SAMPLES FOR TESTING AS REQUIRED BY THE PROJECT GEOTECHNICAL ENGINEER.
  - D. SOIL FOR COMPACTED BACKFILL AND ENGINEERED FILL SHALL CONSIST OF CLEAN GRANULAR SOILS, CLAY SOILS, OR SHALE SOILS HAVING A PLASTICITY INDEX OF LESS THAN 30 AND A MINIMUM DENSITY OF 90 POUNDS PER CUBIC FOOT WHEN COMPACTED TO ONE HUNDRED PERCENT (100%) OF ITS MAXIMUM DRY DENSITY PER STANDARD PROCTOR TEST. (ASTM D698) MATERIAL SHALL BE FREE OF VEGETATION, ROOTS, ROCKS LARGER THAN 2" IN ANY DIMENSION, DEBRIS AND OTHER DELETERIOUS MATERIALS. RESIDUAL SOIL EXCAVATED AT THE SITE MAY BE USED FOR BACKFILL IF IT MEETS THE SPECIFICATION REQUIREMENTS. THE MOISTURE CONTENT OF THE FILL SOILS SHOULD BE MAINTAINED WITHIN +3 AND -3 PERCENTAGE POINTS OF OPTIMUM MOISTURE CONTENT DETERMINED FROM THE STANDARD PROCTOR COMPACTION TEST.
  - E. ALL FILL IN AREAS TO BE OCCUPIED BY THE BUILDING(S) AND PAVING, INCLUDING AN AREA 10 FEET OUTSIDE THE PERIMETERS THEREOF SHALL BE CONTROLLED (ENGINEERED) FILL AND THE COMPACTION SHALL BE TESTED BY A LICENSED AND QUALIFIED GEOTECHNICAL ENGINEER. CONTROLLED FILL IN AREAS OF BUILDINGS SHALL BE COMPACTED IN MAXIMUM 4' LIFTS TO AT LEAST 98% OF MAXIMUM DRY DENSITY WITHIN 3% OF OPTIMUM MOISTURE CONTENT IN ACCORDANCE WITH ASTM SPECIFICATION D-698 (STANDARD PROCTOR). FILL IN AREAS OF ASPHALT PAVING SHALL BE COMPACTED IN MAXIMUM 6' LIFTS TO AT LEAST 98% OF MAXIMUM DRY DENSITY WITHIN 3% OF OPTIMUM MOISTURE CONTENT IN ACCORDANCE WITH ASTM SPECIFICATION D-698. THE UPPER 12 INCHES OF FILL BENEATH PAVEMENTS AND UPPER 24 INCHES BENEATH FOOTINGS AND GRADE SLABS SHALL BE COMPACTED TO 100%. PROVIDE 95% COMPACTION IN ALL OTHER AREAS.
  - F. AFTER STRIPPING TOPSOIL, ALL FILL AREAS SHALL BE PROFFEROLLED AND MONITORED BY THE PROJECT GEOTECHNICAL ENGINEER.
  - G. FILL OUTSIDE OF BUILDING AND PAVEMENT SHALL BE PLACED IN 8" LIFTS IN THE PRESENCE OF A REPRESENTATIVE OF THE SOIL TESTING LAB, COMPACTED TO SPECIFIED REQUIREMENTS, AND TESTED EVERY 900 SF FOR EACH LAYER OF FILL. REMEDY ANY INADEQUATELY PLACED FILL TO MEET PROJECT SPECIFICATIONS.
  - H. ALL LANDSCAPED AND GRASS AREAS SHALL HAVE A MINIMUM OF 5" OF CLEAN TOPSOIL.
  - I. ALL OFFSITE BORROW AND SPOIL SITES, IF REQUIRED, SHALL BE PROPERLY PERMITTED.

**DRAINAGE NOTES**

1. FIELD VERIFY CRITICAL GRADES AT CONNECTION POINTS PRIOR TO CONSTRUCTION OR FABRICATION OF PRECAST STRUCTURES.
2. UNLESS OTHERWISE NOTED, HDPE SHALL BE HANCOR, LANE HDPE, OR ADS N-12 SMOOTH INTERIOR WALL HDPE PIPE. PROVIDE #57 STONE BEDDING AND BACKFILL TO PAVEMENT SUBGRADE OR 12" ABOVE PIPE IN GRASS AREAS. ALL PIPE AND FITTINGS SHALL MEET THE REQUIREMENTS OF AASHTO M252, TYPE S (4'-10') OR AASHTO M254, TYPE S (12'-48"). GASKET SHALL MEET THE REQUIREMENTS OF ASTM F477. INSTALLATION SHALL BE IN ACCORDANCE WITH ASTM D2321. JOINTS SHALL BE SILT TIGHT AND NON-RATED WATERTIGHT GASKETS SHALL BE COVERED WITH A REMOVABLE WRAP BY THE MANUFACTURER TO ENSURE THAT THE GASKET IS FREE FROM DEBRIS.
3. UNLESS OTHERWISE NOTED, RCP SHALL BE CLASS III CONFORMING TO ASTM C-76 (LATEST REVISION): "STANDARD SPECIFICATION FOR REINFORCED CONCRETE CULVERT, STORM DRAIN, AND SEWER PIPE".
4. COORDINATE WITH THE CITY OF OAK RIDGE FOR ALL REQUIRED MATERIAL APPROVALS, INSPECTIONS AND TESTING.

**EROSION CONTROL NOTES**

1. UNLESS SHOWN OTHERWISE, ALL DISTURBED AREAS NOT ULTIMATELY RECEIVING A HARD SURFACE SHALL HAVE A MINIMUM DEPTH OF 5" OF TOPSOIL AND BE STABILIZED WITH GRASS.
2. FURNISH, ERECT AND MAINTAIN EROSION AND SEDIMENTATION CONTROL MEASURES IN CONFORMITY WITH THE TENNESSEE EROSION AND SEDIMENT CONTROL HANDBOOK, FOURTH EDITION, AS PREPARED BY TDEC. SEE PLAN AND DETAILS FOR SPECIFIC EROSION AND SEDIMENTATION CONTROL MEASURES.
3. EROSION AND SEDIMENTATION CONTROL MEASURES SHOWN ON THIS PLAN ARE A MINIMUM REQUIREMENT. MAINTAIN, MODIFY AND ADD EROSION AND SEDIMENTATION CONTROL MEASURES DURING CONSTRUCTION AS NECESSARY TO PREVENT SEDIMENT FROM LEAVING THE SITE.
4. EROSION AND SEDIMENTATION CONTROL IMPLEMENTATION:
  - A. STAKE THE DISTURBED AREA LIMITS AND UNDISTURBED AREAS IN THE FIELD BEFORE BEGINNING WORK
  - B. INSTALL CONSTRUCTION EXIT
  - C. TEMPORARY EROSION AND SEDIMENTATION CONTROL: PROVIDE MEASURES TO PREVENT SOIL EROSION AND DISCHARGE OF SOIL-BEARING WATER RUNOFF AND AIRBORNE DUST TO UNDISTURBED AREAS AND TO ADJACENT PROPERTIES AND WALKWAYS.
  - D. BEGIN SITE GRADING
  - E. INSPECT, REPAIR, AND MAINTAIN EROSION AND SEDIMENTATION CONTROL MEASURES DURING CONSTRUCTION UNTIL PERMANENT VEGETATION HAS BEEN ESTABLISHED.
  - F. CLEAN, REPAIR, AND RESTORE ADJOINING PROPERTIES AND ROADS AFFECTED BY EROSION AND SEDIMENTATION FROM THE PROJECT SITE DURING THE COURSE OF THE PROJECT. OBTAIN PERMISSION AND APPROPRIATE PERMITS TO ACCESS AREAS OUTSIDE THIS SITE.
  - G. AFTER FINAL STABILIZATION OF THE SITE, REMOVE EROSION AND SEDIMENTATION CONTROLS AND RESTORE AND STABILIZE AREAS DISTURBED DURING REMOVAL.
  - H. PROVIDE PERMANENT EROSION CONTROL MEASURES AT EARLIEST PRACTICAL TIME TO MINIMIZE REQUIREMENT FOR TEMPORARY EROSION CONTROLS. PERMANENTLY SEED AND MULCH CUT SLOPES AS EXCAVATION PROCEEDS.
  - I. MAINTAIN TEMPORARY EROSION CONTROL SYSTEMS INSTALLED BY CONTRACTOR AS DIRECTED BY PROJECT MANAGER OR ENGINEER TO CONTROL SILTATION AT ALL TIMES THROUGHOUT WORK. PROVIDE MAINTENANCE OR ADDITIONAL WORK DIRECTED BY ENGINEER WITHIN 48 HOURS OF NOTIFICATION BY ENGINEER.
5. EROSION CONTROL SHALL BE MAINTAINED UNTIL PAVING IS COMPLETED AND LAWNS HAVE BEEN ESTABLISHED. PROTECT ADJACENT PROPERTIES AND WATER RESOURCES FROM EROSION AND SEDIMENT DAMAGE THROUGHOUT THE LIFE OF THE PROJECT UNTIL A NOTICE OF TERMINATION IS FILED WITH TDEC. CONTRACTOR COORDINATE WITH THE ENGINEER AND OWNER FOR APPROVAL TO FILE A NOTICE OF TERMINATION AT THE APPROPRIATE TIME.
6. STABILIZATION MEASURES WILL BE INITIATED AS SOON AS POSSIBLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED. TEMPORARY OR PERMANENT SOIL STABILIZATION AT THE CONSTRUCTION SITE (OR PHASE OF THE PROJECT) MUST BE COMPLETED NO LATER THAN 14 DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED. SLOPES STEEPER THAN 3:1 SHALL BE STABILIZED NO LATER THAN 7 DAYS AFTER CONSTRUCTION ACTIVITY ON THE SLOPE HAS TEMPORARILY OR PERMANENTLY CEASED. PERMANENT STABILIZATION WITH PERENNIAL VEGETATION OR OTHER PERMANENTLY STABLE, NON-ERODING SURFACE SHALL REPLACE ANY TEMPORARY MEASURES AS SOON AS PRACTICABLE. UNPACKED GRAVEL CONTAINING FINES OR CRUSHER RUNS WILL NOT BE CONSIDERED A NON-ERODING SURFACE.

**ABBREVIATIONS**

NOTE: ALL ABBREVIATIONS MAY NOT APPLY TO THIS PROJECT

@	AT		
&	AND		
AASHTO	AMERICAN ASSOCIATION OF STATE HIGHWAY & TRANSPORTATION OFFICIALS		
ADA	AMERICANS WITH DISABILITIES ACT		
ALT.	ALTERNATE		
APPD	APPROVED		
APPROX. OR -	APPROXIMATE		
ASCE	AMERICAN SOCIETY OF CIVIL ENGINEERS		
ASPH.	ASPHALT		
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS		
AWWA	AMERICAN WATER WORKS ASSOCIATION		
B/C	BACK OF CURB		
BLDG.	BUILDING		
BLVD.	BOULEVARD		
BM	BENCHMARK		
Δ	CURVE DELTA ANGLE		
C&G	CURB AND GUTTER		
CB	CATCH BASIN		
CFS	CUBIC FEET PER SECOND		
CI	CURB INLET		
C	CENTERLINE		
CMP	CORRUGATED METAL PIPE		
CMU	CONCRETE MASONRY UNIT		
C.O.	CLEANOUT		
CONC.	CONCRETE		
CONT.	CONTINUOUS		
CP	CONTROL PIPE		
°	DEGREES		
DCB	DOUBLE CATCH BASIN		
DI	DUCTILE IRON		
DIAM	DIAMETER		
DIP	DUCTILE IRON PIPE		
DWG.	DRAWING		
E	EAST		
EA.	EACH		
E.F.	EACH FACE		
EIP	EXISTING IRON PIPE		
EL. OR ELEV.	ELEVATION		
EOP	EDGE OF PAVEMENT		
EPA	ENVIRONMENTAL PROTECTION AGENCY		
ETC.	ET CETERA		
E.W.	EACH WAY		
EX. OR EXIST.	EXISTING		
FC	FACE OF CURB		
FES	FLARED END SECTION		
F.F.E.	FINISHED FLOOR ELEVATION		
FIN.	FINISHED		
FP	FIRE PROTECTION		
FT.	FEET		
G	NATURAL GAS		
GC	GENERAL CONTRACTOR		
GI	GRATE INLET		
GPM	GALLONS PER MINUTE		
GR	GRADE (SLOPE)		
GV	GAS VALVE		
H	HORIZONTAL		
HDPE	HIGH DENSITY POLYETHYLENE		
HP	HIGH POINT		
HWY.	HIGHWAY		
ID	INSIDE DIAMETER		
IN.	INCHES		
INV.	INVERT		
IPF	IRON PIN FOUND		
JB	JUNCTION BOX		
L	LENGTH		
LBS.	POUNDS		
LF	LINEAR FEET		
MAX.	MAXIMUM		
MH	MANHOLE		
MIN.	MINIMUM		
MUTCOD	MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES		
N	NORTH		
N/A	NOT APPLICABLE		
NFPA	NATIONAL FIRE PROTECTION AGENCY		
NIC	NOT IN CONTRACT		
NIP	NEW IRON PIN		
NO. OR #	NUMBER		
NPDES	NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM		
N.T.S.	NOT TO SCALE		
O.C.	ON CENTER		
OSHA	OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION		
P/V	POST INDICATOR VALVE		
POB	POINT OF BEGINNING (ALIGNMENT)		
POE	POINT OF ENDING (ALIGNMENT)		
PP	POWER/UTILITY POLE		
PSI	POUNDS PER SQUARE INCH		
PVC	POLYVINYL CHLORIDE		
PVMT	PAVEMENT		
PW	POTABLE WATER		
Q1	1 YEAR STORM PEAK FLOW		
Q10	10 YEAR STORM PEAK FLOW		
R	RADIUS		
RCP	REINFORCED CONCRETE PIPE		
RD	ROAD		
REF.	REFERENCE		
REQD	REQUIRED		
REV.	REVISION		
R.O.W.	RIGHT-OF-WAY		
S	SOUTH		
SAN.	SANITARY		
SCH.	SCHEDULE		
SD	STORM DRAIN		
SDR	STANDARD DIMENSION RATIO		
SF	SQUARE FEET		
SPAP	SPECIAL POLLUTION ABATEMENT PERMIT		
SQ.	SQUARE		
ST.	STREET		
STA.	STATION		
SS	SANITARY SEWER		
SSFM	SANITARY SEWER FORCE MAIN		
SWPPP	STORM WATER POLLUTION PREVENTION PLAN		
TBM	TEMPORARY BENCH MARK		
TDEC	TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION		
T.D.O.T.	TENNESSEE DEPARTMENT OF TRANSPORTATION		
THK.	THICK		
TC	TOP OF CURB ELEVATION OR TOP OF CASTING		
TP	TOP OF PAVEMENT ELEVATION		
TP.	TYPICAL		
TD	TOP OF DITCH		
V	VERTICAL		
W	WEST		
W/	WITH		
WS	WATER SURFACE		
WW	WATER VALVE		
W.W.F.	WELDED WIRE FABRIC		
W.W.M.	WELDED WIRE MESH		

EXISTING	LEGEND	PROPOSED
---	P/E EASEMENT	---
---	R/W RIGHT-OF-WAY	---
---	PL PROPERTY LINE	---
---	2010 MAJOR CONTOUR	---
---	2011 MINOR CONTOUR	---
SS x	SANITARY SEWER	SS
G x	GAS PIPING	G
W x	WATER LINE	W
E x	ELECTRIC	E
SD x	STORM SEWER	SD
	CURBLINE	---
⊙	MANHOLE	⊙
⊙	CLEAN OUT	⊙
⊙	WATER VALVE	⊙
⊙	WATER METER	⊙
⊙	CATCH BASIN	⊙
⊙	BOLLARD	⊙
⊙	FIRE HYDRANT	⊙
⊙	GAS VALVE	⊙
⊙	LIGHT STANDARD	⊙
⊙	UTILITY POLE	⊙
⊙	GUY WIRE	⊙
⊙	TELEPHONE PEDESTAL	⊙
⊙	CONNECT TO EXISTING	⊙
⊙	THRUST BLOCK	⊙
⊙	HEADWALL	⊙
⊙	JUNCTION BOX	⊙
---	CONSTRUCTION LIMITS	---
---	SETBACK	---
///	EXISTING TO BE REMOVED	///
---	DRAINAGE SWALE	---
---	CONSTRUCTION ENTRANCE	---
---	SILT FENCE	SF
---	INLET PROTECTION	---
---	RIPRAP OUTLET PROTECTION	---
---	TUBES AND WATTLES	---
---	SPOT GRADE	123.00

**AREAS & CALCULATIONS**

**IMPERVIOUS AREA**  
 EXISTING IMPERVIOUS AREA: ? ACRES  
 PROPOSED IMPERVIOUS AREA: ? ACRES  
 TOTAL DECREASE IN IMPERVIOUS AREA: ? ACRES

**DISTURBED AREA**  
 TOTAL SITE AREA: ? ACRES  
 DISTURBED AREA: ? ACRES

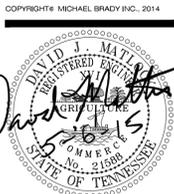
**PARKING CALCULATION**  
 REQUIRED: ?? (1?? SQUARE FEET OF BLDG. SPACE)  
 ? ACCESSIBLE (REQUIRED PER FEDERAL ADA)

PROVIDED:  
 108 NEW PARKING SPACES TOTAL  
 98 REGULAR  
 10 ACCESSIBLE

**MBI**  
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 FAX: 865 584 5213  
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**BLANKENSHIP FIELD PARKING LOT**  
 BROADWAY AVENUE  
 OAK RIDGE, TENNESSEE 37830

RESURFACING & ADA IMPROVEMENTS FOR:

THIS DRAWING HAS BEEN ISSUED:  
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 SCHEMATIC DESIGN  
 DESIGN DEVELOPMENT  
 CONSTRUCTION DOCUMENTS

Drawing Title:  
 CIVIL LEGENDS & NOTES

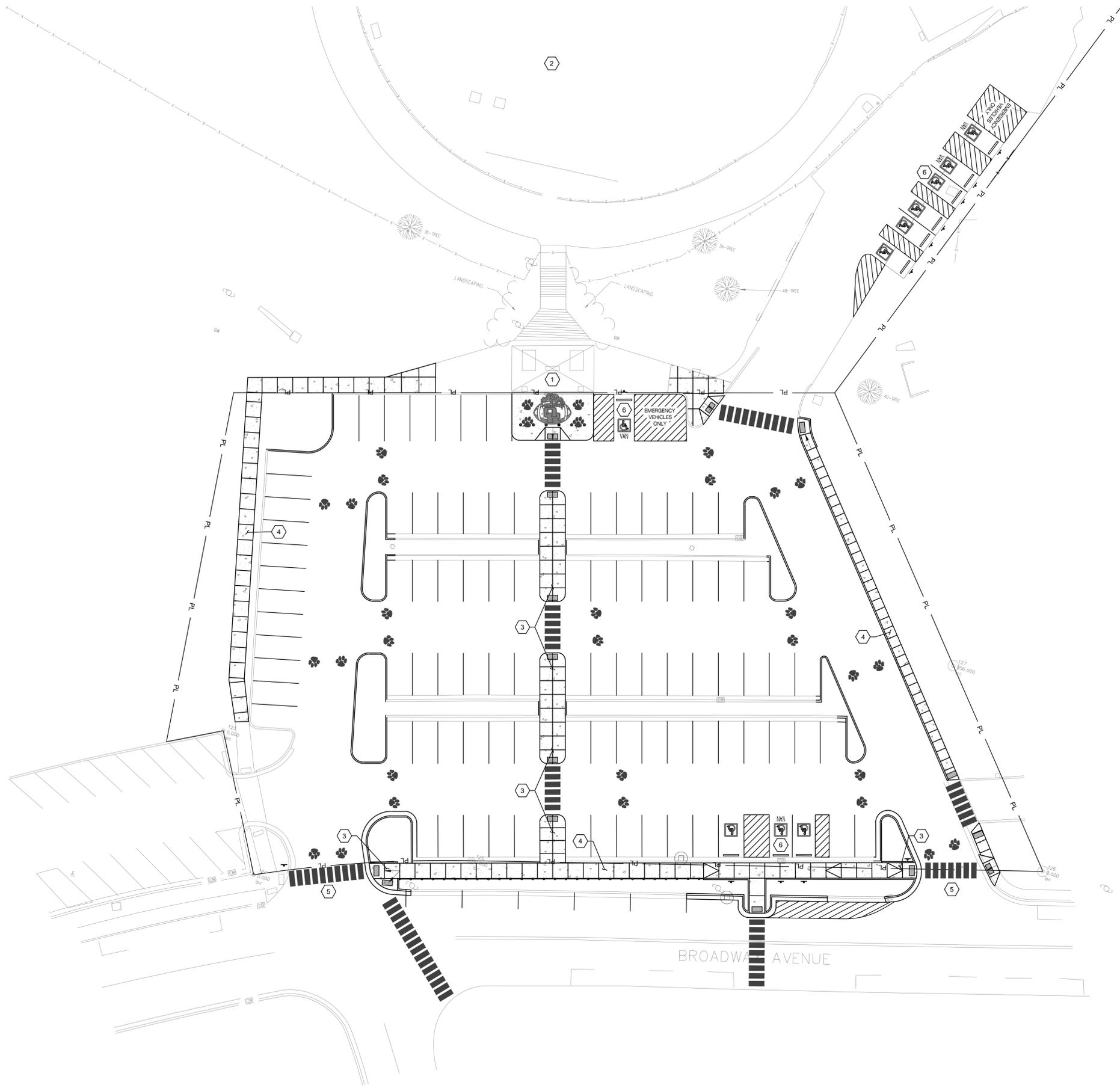
Date: 05/07/2015

Designed By: D.J.M.  
 Drawn By: J.S.B.  
 Reviewed By: D.J.M.

Comm. No. 140398

Revisions:

Sheet: of Sheet No. C0.1



**GENERAL SHEET NOTES:**

1. SEE SHEET C0.1 FOR CIVIL NOTES AND LEGENDS

**SITE KEYED NOTES**

- 1 MAIN GATE
- 2 BLANKENSHIP FIELD
- 3 ADA ACCESSIBLE PATH
- 4 SIDEWALK REPLACEMENT
- 5 PARKING LOT ENTRANCE
- 6 HANDICAP PARKING SPACES

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 KNOXVILLE, TENNESSEE  
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RESURFACING & ADA IMPROVEMENTS FOR:  
**BLANKENSHIP FIELD PARKING LOT**  
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Drawing Title:  
 OVERALL SITE PLAN

Date: 05/07/2015  
 Designed By: D.J.M.  
 Drawn By: J.S.B.  
 Reviewed By: D.J.M.  
 Comm. No. 140398  
 Revisions:

**OVERALL SITE PLAN**

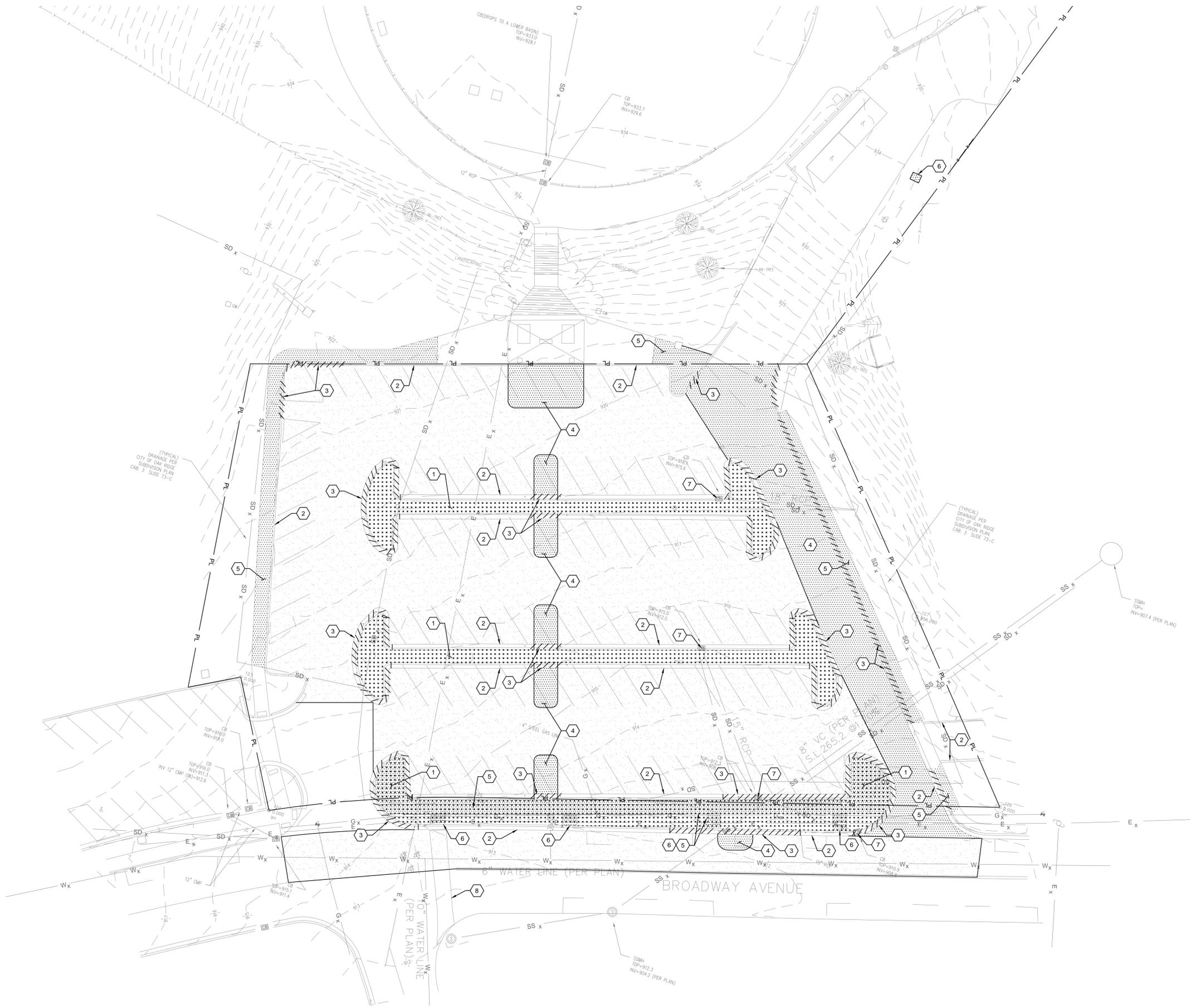
SCALE: 1" = 20'-0"



**811**  
 Know what's below.  
 Call before you dig.  
 In Tennessee call 811 or 1-800-351-1111

GRAPHIC SCALE  
 (IN FEET)  
 1 inch = 20 ft.

Sheet: **C0.3**  
 of **3**

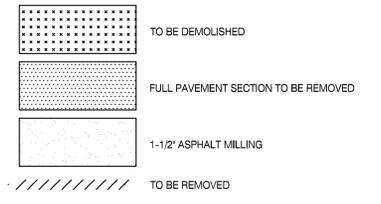


**GENERAL SHEET NOTES:**

1. SEE SHEET C0.1 FOR CIVIL NOTES AND LEGENDS

**DEMOLITION KEYED NOTES**

- 1 REMOVE EXISTING MEDIAN MATERIAL
- 2 EXISTING CURB AND/OR GUTTER TO REMAIN
- 3 REMOVE EXISTING CURB AND/OR GUTTER
- 4 REMOVE FULL DEPTH OF PAVEMENT SECTION
- 5 REMOVE EXISTING SIDEWALK
- 6 REMOVE EXISTING CONCRETE STEPS
- 7 EXISTING DRAINAGE STRUCTURE TO REMAIN
- 8 EXISTING CROSSWALK DELINEATION TO BE REMOVED



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 FAX: 865 584 5213  
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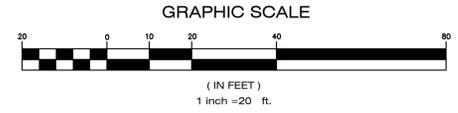
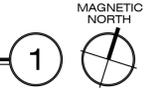
RESURFACING & ADA IMPROVEMENTS FOR:  
**BLANKENSHIP FIELD PARKING LOT**  
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  - SCHEMATIC DESIGN
  - DESIGN DEVELOPMENT
  - CONSTRUCTION DOCUMENTS

Drawing Title:  
 SITE DEMOLITION PLAN

Date: 05/07/2015  
 Designed By: D.J.M.  
 Drawn By: J.S.B.  
 Reviewed By: D.J.M.  
 Comm. No. 140398  
 Revisions:

**SITE DEMOLITION PLAN**  
 SCALE: 1" = 20'-0"



Sheet: 1 of 2  
 Sheet No. C2.0