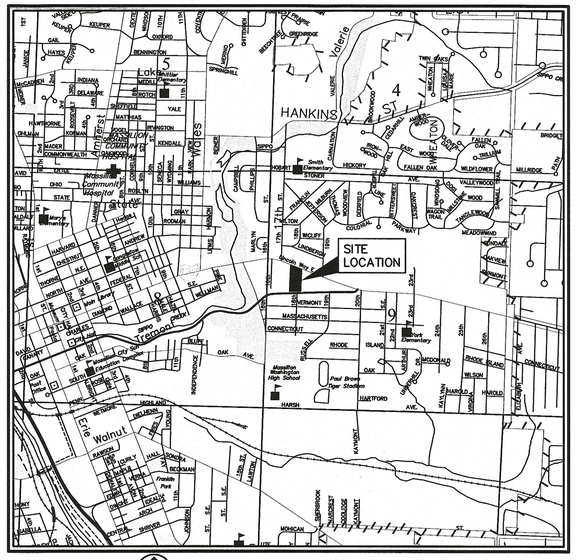
SITE IMPROVEMENT PLANS FOR

WENDY'S LINCOLN WAY

CITY OF MASSILLON
STARK COUNTY OHIO

JUNE 2016



LOCATION MAP
SCALE: NONE

SHEET INDEX:

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NOTE:

ANY WORK PERFORMED IN THE RIGHT OF WAY IS TO BE INSPECTED BY THE CITY OF MASSILLON ENGINEERING DEPARTMENT.

APPROVED BY THE MASSILLON CITY ENGINEER THIS
07 DAY OF July 2016.

ONLY APPROVED SIGNED PLANS BY THE CITY ENGINEER ARE TO BE USED FOR CONSTRUCTION

2 WORKING DAYS
BEFORE YOU DIG
CALL TOLL FREE **800–362–2764**
OHIO UTILITIES PROTECTION SERVICE

UTILITY LOCATION NOTE

LOCATION OF ALL UNDERGROUND UTILITIES SHOWN HEREON ARE APPROXIMATE AND ARE BASED ON FIELD LOCATIONS OF ALL VISIBLE STRUCTURES SUCH AS CATCH BASINS, MANHOLES, WATER AND GAS GATES, ETC., TOGETHER WITH INFORMATIONAL DATA OBTAINED FROM PLANS AND RECORDS SUPPLIED BY VARIOUS UTILITY COMPANIES AND GOVERNMENT AGENCIES. ALL CONTRACTORS SHOULD NOTIFY IN WRITING ALL UTILITY COMPANIES AND GOVERNMENT AGENCIES PRIOR TO ANY EXCAVATION WORK OR CALL O.U.P.S. AT 1–800–362–2764.

OWNER:
NEILSON PROPERTY LTD
4000 COLUMBUS AVE.
SANDUSKY, OHIO 44870

DEVELOPER:
CANTON S. GROUP
4000 COLUMBUS AVE
SANDUSKY, OH 44870
CONTACT: SHARON WILKOSKI
PHONE: 614–662–2191

TITLE SHEET

SHEET = 22"x34"

REVISIONS

1	CITY OF MASSILLON COMM.	JMG	06/28/2016

COOPER & ASSOCIATES
ENGINEERS AND SURVEYORS
PHONE (330) 452–5731
1359 MARKET AVENUE NORTH
CANTON, OHIO 44714

BRYAN J. ASHMAN
JEROLD E. GEIB

STATE OF OHIO
BRYAN ASHMAN
E-043804
06-09-16
REGISTERED PROFESSIONAL ENGINEER

TITLE SHEET
WENDY'S LINCOLN WAY
LOCATED IN THE CITY OF MASSILLON
STARK COUNTY, OHIO
FOR: CANTON S GROUP

DRAWN BY: JMG
CHECKED BY: BJA
DATE 06/09/2016
SHEET C1.1
PROJ.# 15216

EXISTING STORM DATA

DE14: CATCH BASIN
T/R = 1067.45
F/L 12" (NW) =1064.27

DE13: CATCH BASIN
T/R = 1067.80
F/L 12" (W) = 1064.82

DE12: CATCH BASIN
T/R = 1068.94
F/L 12" (NW) = 1064.82

DE11: CATCH BASIN
T/R = 1068.51
F/L 12" (SW) = 1064.34

DE10: APPROXIMATE LOCATION BURIED UNDER ASPHALT

DE9: CATCH BASIN
T/R = 1057.99
F/L 12" (NW) = 1054.23

24 LF 12" STM R = 3.41%

DE8: MANHOLE
T/R = 1058.55
F/L 12" (SSW) = 1053.77

DEP:
8 LF 12" STM R = 5.25%

DE7: MANHOLE
T/R = 1058.51
F/L 12" (SE) = 1053.41
F/L 12" (NNE) = 1053.35
F/L 18" (W) = 1049.13
F/L 18" (E) = 1049.08

DE6: CATCH BASIN
LOCATION ONLY

DE5: CATCH BASIN
LOCATION ONLY

DE4: EX MANHOLE
T/R = 1065.23
F/L 12" (WNW) = 1059.30

DEP4:
296 LF 24" STM R = 1.6%

DE3: EX MANHOLE
T/R = 1053.82
F/L 3" (SE) = 1050.92
F/L 12" (SSE) = 1050.44
F/L 12" (NNW) = 1050.24
F/L 6" (SE) = 1051.06

DEP3:
3 LF 12" STM R = 1.0%

DE2: CATCH BASIN
T/G: 1053.28
F/L 12" (NNW & SSE) = 1050.27

DEP2:
45 LF 12" STM R = 0.57%

DE1: EX CATCH BASIN
T/G: 1053.14
F/L 12" (SSE) = 1049.61
F/L 12" (ESE) = 1050.01
F/L 24" (NNW) = 1048.91

EXISTING SANITARY DATA

SE5: MANHOLE
T/R = 1071.73
F/L 8" (W) 1061.61

SEP5:
374 LF 8" STM = 4.02%

SE4: MANHOL
T/R = 1053.58
F/L 8" (E & W) =1045.61

SE3: MANHOLE
T/R = 1065.66
F/L 8" (WNW & ESE) = 1056.71

SEP3:
201 LF 8" STM = 3.84%

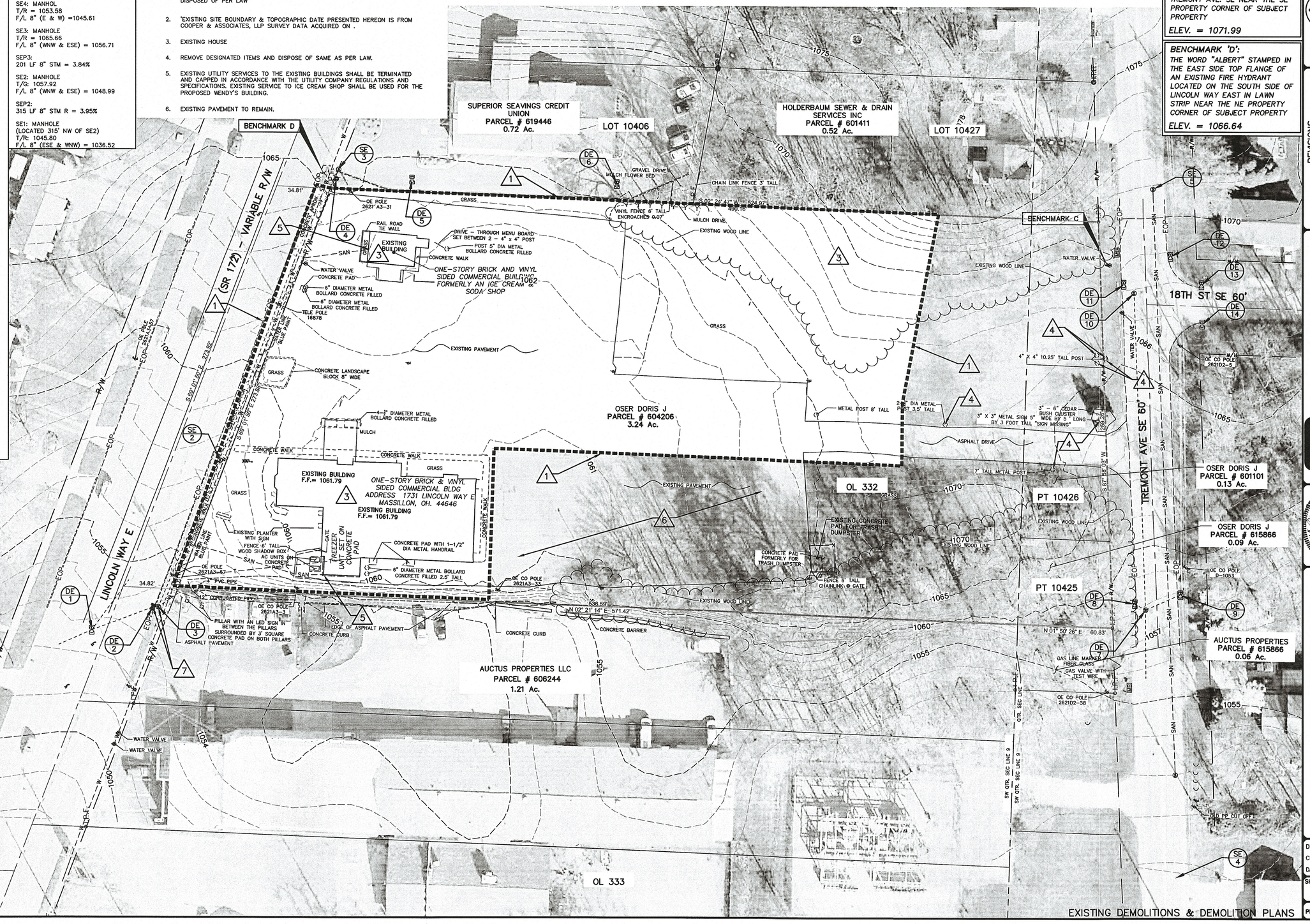
SE2: MANHOLE
T/G: 1057.92
F/L 8" (WNW & ESE) = 1048.99

SEP2:
315 LF 8" STM R = 3.95%

SE1: MANHOLE
(LOCATED 315' NW OF SE2)
T/R: 1045.80
F/L 8" (ESE & WNW) = 1036.52

KEY NOTES:

1. AREA OF DISTURBANCE : 1.94 AC.
   WITHIN THE LIMITS OF DISTURBANCE THE CONTRACTOR SHALL REMOVE THE EXISTING BUILDING, ASPHALT AND/OR CONCRETE PAVEMENT, TREES, STUMPS, AND VEGETATION. DEMOLISHED MATERIALS SHALL BE REMOVED FROM THE SITE AND DISPOSED OF PER LAW
2. 'EXISTING SITE BOUNDARY & TOPOGRAPHIC DATE PRESENTED HEREON IS FROM COOPER & ASSOCIATES, LLP SURVEY DATA ACQUIRED ON .
3. EXISTING HOUSE
4. REMOVE DESIGNATED ITEMS AND DISPOSE OF SAME AS PER LAW.
5. EXISTING UTILITY SERVICES TO THE EXISTING BUILDINGS SHALL BE TERMINATED AND CAPPED IN ACCORDANCE WITH THE UTILITY COMPANY REGULATIONS AND SPECIFICATIONS. EXISTING SERVICE TO ICE CREAM SHOP SHALL BE USED FOR THE PROPOSED WENDY'S BUILDING.
6. EXISTING PAVEMENT TO REMAIN.
7. CONTRACTOR SHALL REMOVE EXISTING STORM STRUCTURE DE/2, DE/3 & ASSOCIATED PIPING IN ACCORDANCE CITY OF MASSILLON ENGINEERING REGULATIONS. SEE SHEET C1.5 & C1.7 FOR PROPOSED STORM SEWER IMPROVEMENTS.



BENCHMARK 'C':
THE WORD "ALBERT" STAMPED IN THE SOUTH SIDE TOP FLANGE OF AN EXISTING FIRE HYDRANT LOCATED ON THE NORTH SIDE OF TREMONT AVE. SE NEAR THE SE PROPERTY CORNER OF SUBJECT PROPERTY
ELEV. = 1071.99

BENCHMARK 'D':
THE WORD "ALBERT" STAMPED IN THE EAST SIDE TOP FLANGE OF AN EXISTING FIRE HYDRANT LOCATED ON THE SOUTH SIDE OF LINCOLN WAY EAST IN LAWN STRIP NEAR THE NE PROPERTY CORNER OF SUBJECT PROPERTY
ELEV. = 1066.64

SHEET = 22"x34"
HORIZONTAL SCALE 1" = 30'

REVISIONS

1	CITY OF MASSILLON COMM.	JMG 06/28/2016

COOPER & ASSOCIATES
ENGINEERS AND SURVEYORS
BRYAN J. ASHMAN JEROLD E. GEIB
PHONE (330) 452-5731
1359 MARKET AVENUE NORTH CANTON, OHIO 44714

STATE OF OHIO BRYAN ASHMAN E-043804 REGISTERED PROFESSIONAL ENGINEER

EXISTING DEMOLITIONS & DEMOLITION PLANS

WENDY'S – LINCOLN WAY

LOCATED IN THE CITY OF MASSILLON
STARK COUNTY, OHIO
FOR: CANTON S GROUP

DRAWN BY: JMG
CHECKED BY: BJA
DATE 06/09/2016
SHEET C1.2
PROJ.# 15216

EXISTING DEMOLITIONS & DEMOLITION PLANS

P:\Working Documents\Project Files\Project Files\1464 Nelson Property Ltd. (15213, 15216, 15214, 16109)\1464.02 Wendy's Lincoln Way\15216\Dwg\15216_SP_CON_06-01-2016.dwg 6/30/2016

KEY NOTES:

1. LIMITS OF DISTURBANCE = 1.94 ACRES.
2. PROPOSED BUILDING : FINISH FLOOR ELEVATION = 1063.00; BUILDING FOOT PRINT IS 3989 SF SEE ARCHITECT PLANS FOR DETAILS.
3. ASPHALT PAVEMENT. SEE DETAIL ON SHEET C1.6.
4. HEAVY DUTY ASPHALT PAVEMENT. SEE DETAIL ON SHEET C1.6.
5. CONCRETE PAVEMENT DETAIL. SEE DETAIL ON SHEET C1.6.
6. CONCRETE DUMPSTER PAD. SEE DETAIL ON SHEET C1.6.
7. DUMPSTER MASONRY ENCLOSURE WITH DOUBLE SWING GATE. SEE ARCHITECT PLANS FOR DETAILS AND SPECIFICATIONS.
8. CONCRETE WALK & ENTRANCE PAD. SEE DETAIL ON SHEET C1.6.
9. STAMPED CONCRETE PATIO AND SURROUNDING FENCE. SEE ARCHITECTURAL PLANS FOR DETAIL AND SPECIFICATIONS.
10. COMBINATION CONCRETE CURB & WALK. SEE DETAIL ON SHEET C1.6.
11. ODOT TYPE 6 CONCRETE CURB. SEE DETAIL ON SHEET C1.6.
12. SEE DETAIL ON SHEET C1.6 FOR THE HANDICAP PARKING AREA SPOT ELEVATIONS.
13. 4" WIDE WHITE PARKING LOT STALL MARKING, TYPE 1 AS PER ODOT ITEM 652.
14. MENU BOARD. SEE ARCHITECTURAL PLANS FOR DETAIL AND SPECIFICATIONS.
15. PRESALE BOARD. SEE ARCHITECTURAL PLANS FOR DETAIL AND SPECIFICATIONS.
16. ORDER STATION CANOPY. SEE ARCHITECTURAL PLANS FOR DETAIL AND SPECIFICATIONS.
17. VEHICLE HEIGHT DETECTION BAR. SEE ARCHITECTURAL PLANS FOR DETAIL AND SPECIFICATIONS.
18. PROPOSED CANOPY. SEE ARCHITECTURAL PLANS FOR DETAIL AND SPECIFICATIONS.
19. DOWNSPOUT HEADERS SHALL BE 6" DIAMETER PVC (UNLESS OTHERWISE DESIGNATED ON THE PLAN) IN ACCORDANCE WITH ASTM D-3034 AND SHALL BE INSTALLED AT A MINIMUM SLOPE OF 1.00%.
20. STORM WATER MANAGEMENT BASIN. SEE DETAILS ON SHEET C1.6.
21. 6" SANITARY SERVICE CONNECTION TO THE PROPOSED PUBLIC SANITARY SEWER IN ACCORDANCE WITH STARK COUNTY SANITARY REGULATIONS/DETAILS.
22. 4" AND 6" SAN SERVICE CONNECTION AT BUILDING. SEE PLUMBING PLANS FOR DETAILS.
23. ADA ACCESSIBLE HANDICAP RAMP PER ADA REQUIREMENTS.
24. POST MOUNTED PYLON SIGN. SEE ARCHITECTURAL PLANS FOR DETAIL AND SPECIFICATIONS.
25. ENTRANCE SIGN. SEE ARCHITECTURAL PLANS FOR DETAIL AND SPECIFICATIONS.
26. EXIT SIGN. SEE ARCHITECTURAL PLANS FOR DETAIL AND SPECIFICATIONS.
27. 1 ½" ASPHALT CONCRETE OVERLAY ODOT 301 APRON ON TREMOUNT
28. BUILDING SET BACK LINE SEE ZONING / SITE DATA THIS SHEET.
29. CONCRETE DRIVE APRON PER CITY OF MASSILLON REGULATIONS AND STANDARD DETAIL SHEET C1.7
30. 4" PIPE BOLLARD (4) TO RESTRICT VEHICLE ACCESS.
31. SITE LIGHT POLE – LOCATION YET TO BE DETERMINED.

ZONING/SITE DATA:

SITE ADDRESS:
1731 LINCOLN WAY E
MASSILLON , OH. 4464
PARCEL: 604206

SITE DATA:
PROPERTY AREA: 3.46 Ac.

BUILDING SETBACK REQUIREMENTS:
FRONT SETBACK: 25'-0"
SIDE SETBACK: 10'-0"
REAR SETBACK: 20'-0"

PARKING SUMMARY

STANDARD PARKING SPACES = 57
HANDICAP PARKING SPACES = 3
TOTAL PARKING SPACES = 60

REQUIREMENTS = ONE FOR EACH 150 SQUARE FEET OF GROSS FLOOR AREA(3989 SF / 150 = 27 SPC).

BENCHMARK 'C':

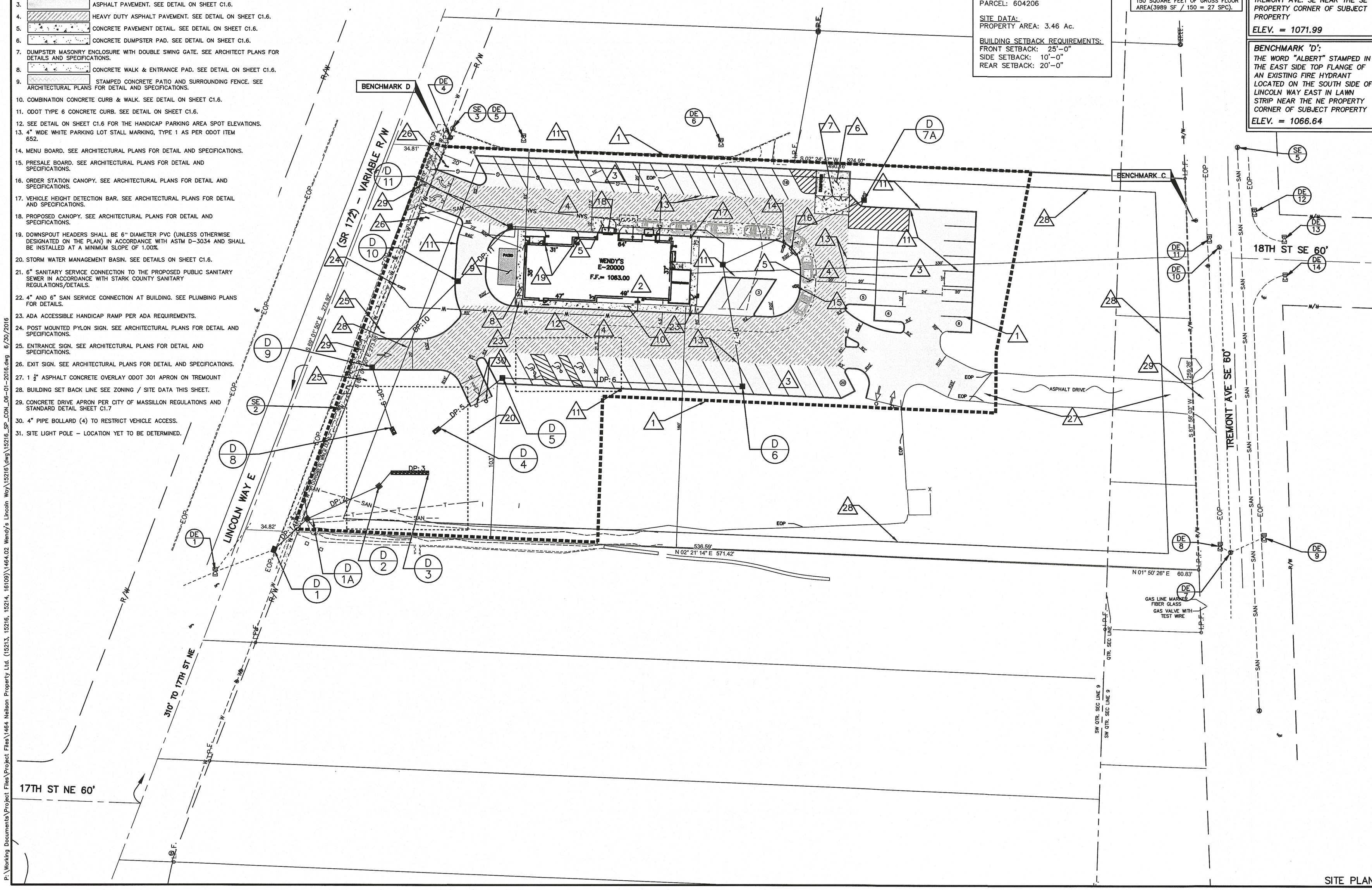
THE WORD "ALBERT" STAMPED IN THE SOUTH SIDE TOP FLANGE OF AN EXISTING FIRE HYDRANT LOCATED ON THE NORTH SIDE OF TREMONT AVE. SE NEAR THE SE PROPERTY CORNER OF SUBJECT PROPERTY

ELEV. = 1071.99

BENCHMARK 'D':

THE WORD "ALBERT" STAMPED IN THE EAST SIDE TOP FLANGE OF AN EXISTING FIRE HYDRANT LOCATED ON THE SOUTH SIDE OF LINCOLN WAY EAST IN LAWN STRIP NEAR THE NE PROPERTY CORNER OF SUBJECT PROPERTY

ELEV. = 1066.64



SHEET = 22"x34"

HORIZONTAL SCALE 1" = 30'

REVISIONS

1	CITY OF MASSILLON COMM.	JMG 06/29/2016

COOPER & ASSOCIATES
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BRYAN J. ASHMAN JEROLD E. GEIB
PHONE (330) 452-5731
1369 MARKET AVENUE NORTH
CANTON, OHIO 44714

STATE OF OHIO BRYAN ASHMAN E-043804 REGISTERED PROFESSIONAL ENGINEER

SITE PLAN
WENDY'S – LINCOLN WAY
LOCATED IN THE CITY OF MASSILLON
STARK COUNTY, OHIO
FOR: CANTON S GROUP

DRAWN BY: JMG
CHECKED BY: BJA
DATE 06/09/2016
SHEET C1.3
PROJ.# 15216

SITE PLAN

P:\Working Documents\Project Files\Project Files\1464 Nelson Property Ltd. (15213, 15216, 15214, 16109)\1464.02 Wendy's Lincoln Way\15216\dwg\15216_SP_CON_06-01-2016.dwg 6/30/2016

FLOOD PLAIN CERTIFICATION

ACCORDING TO FLOOD INSURANCE RATE MAP 39151C0192E (EFFECTIVE DATE SEPTEMBER 29, 2011) THE SUBJECT PROPERTY LIES IN ZONE X AND THEREFORE IS NOT IN A SPECIAL FLOOD HAZARD AREA.

KEY NOTES:

1. LIMITS OF DISTURBANCE = 1.94 ACRES.
2. PROPOSED BUILDING : FINISH FLOOR ELEVATION = 1063.00; BUILDING FOOT PRINT IS 3989 SF SEE ARCHITECT PLANS FOR DETAILS.
3. CONTRACT SHALL CONSTRUCT A DRAINAGE SWALE (W = 2'; D = 0.75' & SIDE SLOPES = 3:1) FROM SWM EMERGENCY SPILLWAY TO D/1A.

BENCHMARK 'C':
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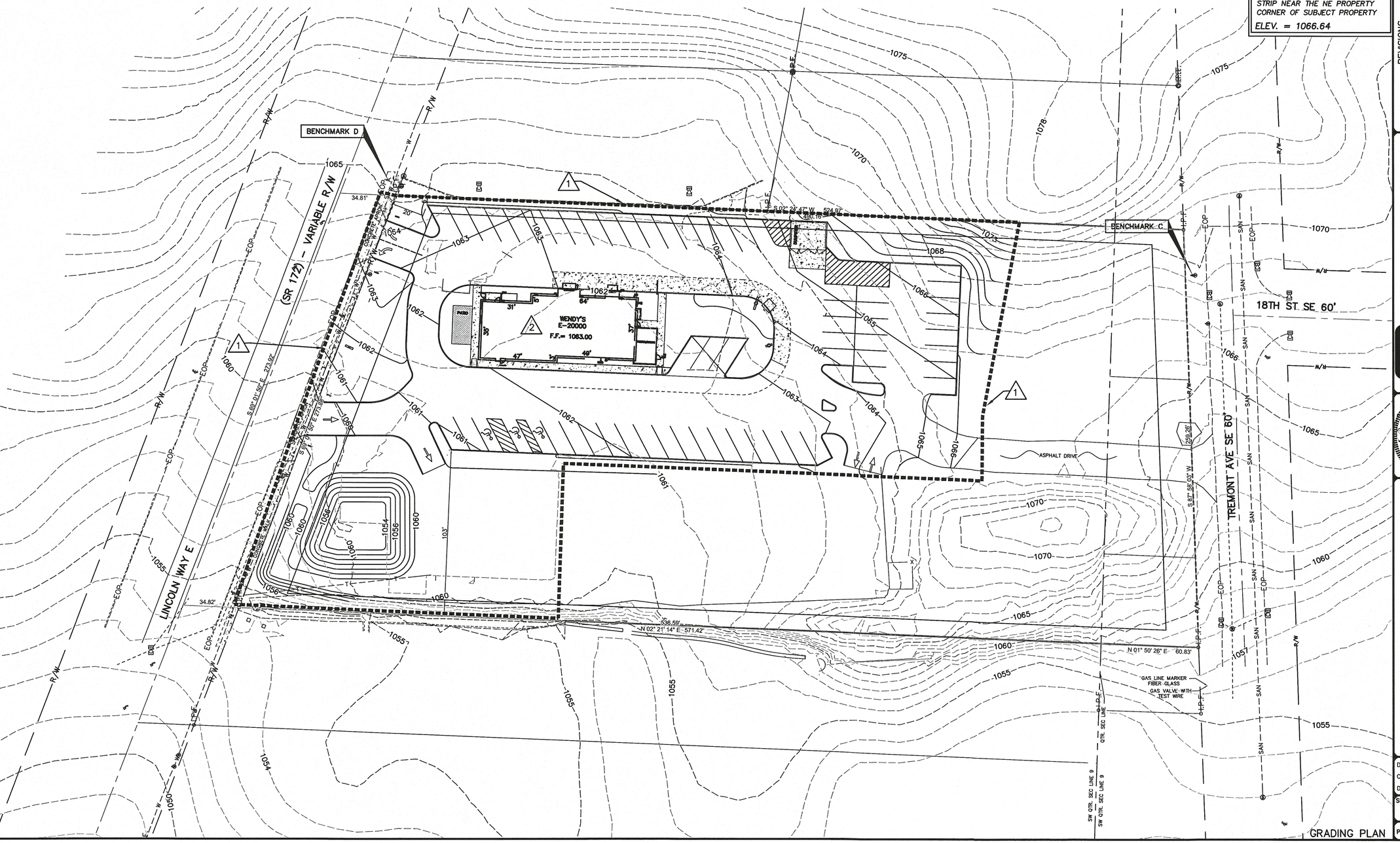

SHEET = 22"x34"

HORIZONTAL SCALE 1" = 30'

REVISIONS

1	CITY OF MASSILLON COMM.	JMG 06/28/2016

COOPER & ASSOCIATES
ENGINEERS AND SURVEYORS
BRYAN J. ASHMAN JEROLD E. GEIB
PHONE (330) 452-5731
1359 MARKET AVENUE NORTH CANTON, OHIO 44714

STATE OF OHIO BRYAN ASHMAN E-043804 REGISTERED PROFESSIONAL ENGINEER

GRADING PLAN

WENDY'S – LINCOLN WAY

LOCATED IN THE CITY OF MASSILLON
STARK COUNTY, OHIO
FOR: CANTON S GROUP

DRAWN BY: JMG
CHECKED BY: BJA
DATE 06/09/2016
SHEET C1.4
PROJ.# 15216

GRADING PLAN

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EXISTING STORM DATA

DE14: CATCH BASIN
T/R = 1067.45
F/L 12" (NW) =1064.27

DE13: CATCH BASIN
T/R = 1067.80
F/L 12" (W) = 1064.82

DE12: CATCH BASIN
T/R = 1068.94
F/L 12" (NW) = 1064.82

DE11: CATCH BASIN
T/R = 1068.51
F/L 12" (SW) = 1064.34

DE10: APPROXIMATE LOCATION BURIED UNDER ASPHALT

DE9: CATCH BASIN
T/R = 1057.99
F/L 12" (NW) = 1054.23

24 LF 12" STM R = 3.41%

DE8: MANHOLE
T/R = 1058.55
F/L 12" (SSW) = 1053.77

DEP:
8 LF 12" STM R = 5.25%

DE7: MANHOLE
T/R = 1058.51
F/L 12" (SE) = 1053.41
F/L 12" (NNE) = 1053.35
F/L 18" (W) = 1049.13
F/L 18" (E) = 1049.08

DE6: CATCH BASIN
LOCATION ONLY

DE5: CATCH BASIN
LOCATION ONLY

DE4: EX MANHOLE
T/R = 1065.23
F/L 12" (WNW) = 1059.30

DEP4:
296 LF 24" STM R = 1.6%

DE3: EX MANHOLE
T/R = 1053.82
F/L 3" (SE) = 1050.92
F/L 12" (SSE) = 1050.44
F/L 12" (NNW) = 1050.24
F/L 6" (SE) = 1051.06

DEP3:
3 LF 12" STM R = 1.0%

DE2: CATCH BASIN
T/G: 1053.28
F/L 12" (NNW & SSE) = 1050.27

DEP2:
45 LF 12" STM R = 0.57%

DE1: EX CATCH BASIN
T/G: 1053.14
F/L 12" (SSE) = 1049.61
F/L 12" (ESE) = 1050.01
F/L 24" (NNW) = 1048.91

SE5: MANHOLE
T/R = 1071.73
F/L 8" (W) 1061.61

SEP5:
374 LF 8" STM = 4.02%

SE4: MANHOL
T/R = 1053.58
F/L 8" (E & W) =1045.61

SE3: MANHOLE
T/R = 1065.66
F/L 8" (WNW & ESE) = 1056.71

SEP3:
201 LF 8" STM = 3.84%

SE2: MANHOLE
T/G: 1057.92
F/L 8" (WNW & ESE) = 1048.99

SEP2:
315 LF 8" STM R = 3.95%

SE1: MANHOLE
T/R: 1045.80
F/L 8" (ESE & WNW) = 1036.52

PROPOSED STORM DATA

D1: CB MASSILLON # 7030
T/G: 1053.28
F/L 12" (NNW & SSE) = 1050.27

DP1A:
30 LF 12" STM R = 5.76%

D1A: CB : ODOT 2-2B
T/G = 1054.50
F/L 12" (NE) = 1051.00
F/L 12" (SE) = 1051.00
F/L 6" (SW) = 1051.00

DP1B:
8 LF 12" STM R = 5.00%

D1B: HW ODOT 2.1 MOD FULL HEIGHT
F/L 12" (NE) = 1051.40

DP2:
52 LF 6" STM R = 2.88%

D2: CONTROL STRUCTURE
T/G = 1058.75
F/L 6" ORIFICE (SW) = 1056.26
F/L 4" (SE) = 1052.50
F/L 6" (NW) = 1052.50

DP3:
4" PVC WQ PIPE SEE DETAILS SHEET C1.6

D4: HW ODOT 2.1 MOD FULL HEIGHT
F/L 12" (SE) = 1056.20

DP5:
53 LF 12" STM R = 3.02%

D5: CB : ODOT 2-2B
T/G = 1060.80
F/L 12" (NW, S) = 1057.80

DP6:
159 LF 12" STM R = 0.75%

D6: CB : ODOT 2-2B
T/G = 1062.25
F/L 12" (E, N) = 1059.00

DP7:
82 LF 12" STM R = 0.61%

D7: CB : ODOT 2-2B
T/G = 1062.00
F/L 12" (W, E) = 1059.50
F/L 6" (N) = 1059.50

DP7A:
103 LF 12" STM R = 5.53%

D7A: CB : ODOT 2-2B
T/G = 1065.20
F/L 12" (NW) = 1062.70

D8: HW ODOT 2.1 MOD FULL HEIGHT
F/L 12" (NE) = 1055.97

DP9:
42 LF 12" STM R = 1.50%

D9: CB : ODOT 2-2B
T/G = 1059.10
F/L 12" (SE, SW) = 1056.60

DP10:
81 LF 12" STM R = 2.96%

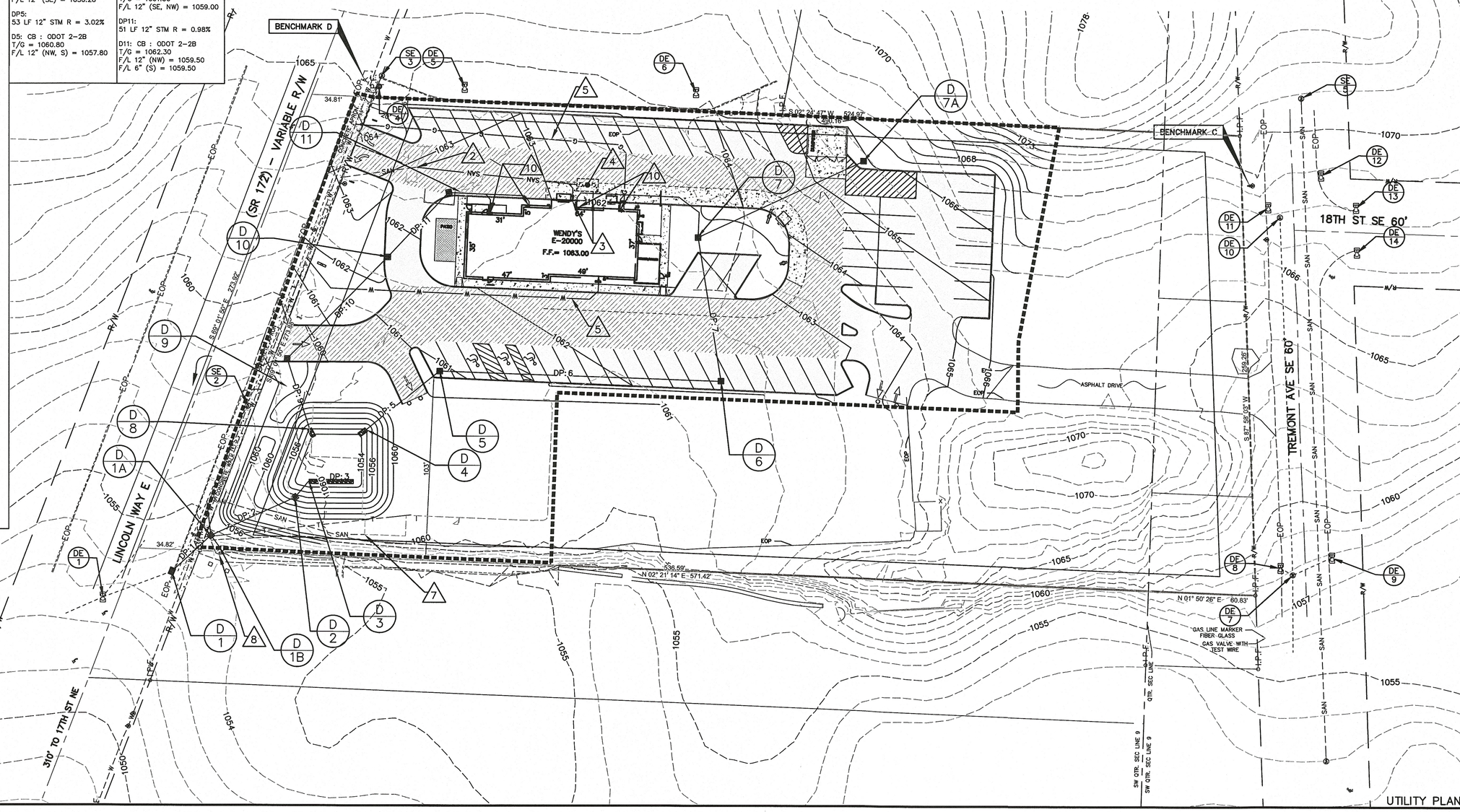
D10: CB : ODOT 2-2B
T/G = 1061.50
F/L 12" (SE, NW) = 1059.00

DP11:
51 LF 12" STM R = 0.98%

D11: CB : ODOT 2-2B
T/G = 1062.30
F/L 12" (NW) = 1059.50
F/L 6" (S) = 1059.50

KEY NOTES:

1. AREA OF DISTURBANCE : 1.94 AC.
2. 6" SANITARY SERVICE CONNECTION TO THE EXISTING SERVICE OF THE DEMOLISHED ICE CREAM SHOP IN ACCORDANCE WITH CITY OF MASSILLON CITY SANITARY REGULATIONS/DETAILS.
3. 4" AND 6" SAN SERVICE CONNECTION AT BUILDING. SEE PLUMBING PLANS FOR DETAILS.
4. GREASE INTERCEPTOR, SEE PLUMBING PLANS FOR DETAILS.
5. 2" WATER SERVICE IN ACCORDANCE WITH AQUA AMERICA REGULATIONS FOR MATERIALS AND CONSTRUCTION SPECIFICATIONS. SEE PLUMBING PLANS FOR BUILDING CONNECTION.
6. GAS SERVICE, SEE MECHANICAL PLANS FOR BUILDING CONNECTION.
7. EXISTING UTILITY SERVICES TO THE EXISTING BUILDINGS SHALL BE TERMINATED AND CAPPED IN ACCORDANCE WITH THE UTILITY COMPANY REGULATIONS AND SPECIFICATIONS. EXISTING SERVICE TO ICE CREAM SHOP SHALL BE USED FOR THE PROPOSED WENDY'S BUILDING
8. EXISTING 12" STORM SEWER (FROM CREDIT UNION) DEPTH UNKNOWN.
9. CONTRACTOR SHALL MAKE CONNECTION FROM EXISTING 12" STORM SEWER (BEHIND SIDEWALK) TO STRUCTURE D/1A PRE MASSILLON REGULATIONS.
10. DOWNSPOUT HEADERS SHALL BE 6" DIAMETER PVC (UNLESS OTHERWISE DESIGNATED ON THE PLAN) IN ACCORDANCE WITH ASTM D-3034 AND SHALL BE INSTALLED AT A MINIMUM SLOPE OF 1.00%.



BENCHMARK 'C':
THE WORD "ALBERT" STAMPED IN THE SOUTH SIDE TOP FLANGE OF AN EXISTING FIRE HYDRANT LOCATED ON THE NORTH SIDE OF TREMONT AVE. SE NEAR THE SE PROPERTY CORNER OF SUBJECT PROPERTY
ELEV. = 1071.99

BENCHMARK 'D':
THE WORD "ALBERT" STAMPED IN THE EAST SIDE TOP FLANGE OF AN EXISTING FIRE HYDRANT LOCATED ON THE SOUTH SIDE OF LINCOLN WAY EAST IN LAWN STRIP NEAR THE NE PROPERTY CORNER OF SUBJECT PROPERTY
ELEV. = 1066.64

SHEET = 22"x34"
HORIZONTAL SCALE 1" = 30'

REVISIONS

1	CITY OF MASSILLON COM.	JMG 06/28/2016

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UTILITY PLAN
WENDY'S – LINCOLN WAY
LOCATED IN THE CITY OF MASSILLON
STARK COUNTY, OHIO
FOR: CANTON S GROUP

DRAWN BY: JMG
CHECKED BY: BJA
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SHEET C1.5
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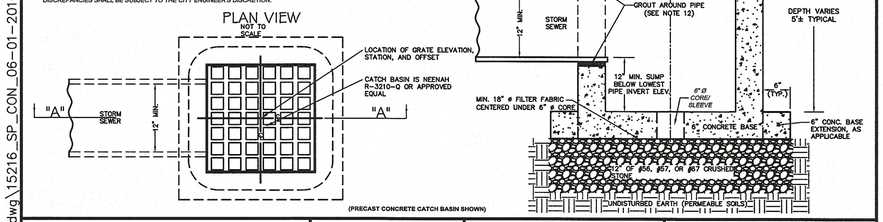
UTILITY PLAN

P:\Working Documents\Project Files\Project Files\1464 Nellson Property Ltd. (15213, 15216, 15214, 16109)\1464.02 Wendy's Lincoln Way\15216\dwg\15216_SP_CON_06-01-2016.dwg 6/30/2016

NOTES:
1. THESE STRUCTURES ARE ONLY TO BE USED AS DIRECTED BY THE CITY ENGINEER TO ASSIST IN PROVIDING POST-CONSTRUCTION STORM WATER QUALITY TREATMENT IN ACCORDANCE WITH APPLICABLE NPDES PERMIT REQUIREMENTS. THEY ARE BEST UTILIZED AS SUPPLEMENTAL PRECONSTRUCTION STORM WATER QUALITY TREATMENT TO PROMOTE GROUND INFILTRATION, THE CAPTURE OF LARGER DEBRIS, AND THE OVERALL REDUCTION OF RUNOFF AND POLLUTANTS THROUGH THE STORM SEWER SYSTEM. THESE STRUCTURES SHOULD ONLY BE USED WHEN UNDERLYING SOILS ARE KNOWN TO HAVE MODERATELY RAPID PERMEABILITY OR BETTER.
2. ALL WORK SHALL CONFORM TO ODOT ITEM 604 EXCEPT AS OTHERWISE NOTED HEREIN.
3. A 12" MINIMUM SUMP SHALL BE PROVIDED BELOW THE LOWEST STORM SEWER INVERT AND THE BOTTOM OF THE CATCH BASIN.
4. A 6" DIAMETER CORE OR SLEEVE SHALL BE CENTERED IN THE BASE OF THE CATCH BASIN.
5. A MINIMUM 18" DIAMETER PIECE OF FILTER FABRIC (ODOT 712.09 TYPE A, B, C, OR D) SHALL BE PLACED UNDER THE BASE OF THE CATCH BASIN BELOW THE 6" CORE/SLEEVE.
6. THE CATCH BASIN SHALL SIT ON A 12"-THICK LAYER OF #56, #57, OR #67 CRUSHED STONE.
7. PRECAST CONCRETE OR BRICK CATCH BASINS ARE ALLOWED AS NOTED HEREIN.
8. ALL CONCRETE SHALL CONFORM TO ODOT ITEM 499 CLASS C (4000 psi).
9. IF THE CATCH BASIN WILL BE USED IN A TRAFFIC-BEARING APPLICATION, THE PRECAST CONCRETE PORTION OF AN ODOT 2-2B CATCH BASIN MAY BE USED. HOWEVER, THE INLET FRAME AND GRATE AS SPECIFIED HEREIN SHALL BE USED IN LIEU OF THE ODOT 2-2 "LAY-IN" GRATE. ALL ANNULAR SPACE REMAINING BETWEEN THE BOTTOM OF THE INLET FRAME AND THE TOP OF THE PRECAST SECTION SHALL BE FILLED WITH CEMENT GROUT OR CLASS 'C' CONCRETE. IF THE CATCH BASIN WILL BE USED IN A NON-TRAFFIC-BEARING APPLICATION, AN ODOT 2-2 CATCH BASIN MAY BE USED WITH THE STANDARD "LAY-IN" GRATE.
10. THE EXCAVATED AREA AROUND THE CATCH BASIN SHALL BE BACKFILLED WITH ODOT ITEM 703.11, TYPE 1 (304, 411, OR 617) COMPACTED IN 6" LIFTS. NO FOUNDRY SAND OR SLAG PERMITTED.
11. WHERE CATCH BASIN WILL BE LOCATED WITHIN CROSSWALK, AT ADA RAMP, OR IN DESIGNATED BIKE LANE, CASTING SHALL BE EAST JORDAN IRON WORKS (EJIW) 5250 INLET WITH V-562080 ADA GRATE OR NEENAH R-3405-A INLET WITH TYPE 'L' GRATE, OR EQUAL APPROVED BY CITY ENGINEER. AS APPLICABLE, GRATE SHALL BE ORIENTED SUCH THAT THE LONG OPENINGS ARE PERPENDICULAR TO NORMAL DIRECTION OF BICYCLE TRAFFIC FLOW. IN OTHER LOCATIONS, CASTING SHALL BE EJIW 5250 OR NEENAH R-3405 INLET AND STANDARD GRATE MAY BE USED. IN ALL LOCATIONS, GRATE MUST INCLUDE "ECO-SENSITIVE" MARKINGS SUCH AS: "DUMP NO WASTE; DRAINS TO STREAM" AND AN AQUATIC LIFE LOGO. THE LETTERING AND LOGO SHALL BE RAISED OR RECESSED AND INTEGRAL WITH THE CASTING. ALTERNATE NOTATION OR LOGO IS SUBJECT TO THE CITY ENGINEER'S APPROVAL. CASTINGS TO BE CAST OF GRAY IRON IN COMPLIANCE WITH ASTM A-48 CLASS 35 AND AASHTO M306.
12. ALL OPENINGS AND KNOCKOUTS FOR INLET AND OUTLET PIPING SHALL BE FASHIONED NEATLY. ALL ANNULAR SPACE SHALL BE FILLED WITH CEMENT GROUT, BRICK AND MORTAR, OR CLASS 'C' CONCRETE.
13. KNOCK-OUT PANELS ARE NOT ALLOWED UNLESS PRE-APPROVED BY THE CITY ENGINEER.
14. ODOT REFERENCES ARE FROM THE CURRENT ODOT CONSTRUCTION AND MATERIAL SPECIFICATIONS. ANY DISCREPANCIES SHALL BE SUBJECT TO THE CITY ENGINEER'S DISCRETION.

BRICK CATCH BASINS ARE ACCEPTABLE AND SHALL BE CONSTRUCTED PER THIS DRAWING AND THE FOLLOWING SPECIFICATIONS:
1. PROVIDE CLAY BRICK (ASTM C-32-93) WALLS WITH FULL MORTAR (ASTM C-91 & C-150, AIR-ENTRAINED PORTLAND CEMENT) JOINTS. CONCRETE & CEMENT BLOCKS/BRICKS ARE PROHIBITED FOR NEW OR RECONSTRUCTED BASINS.
2. THE CATCH BASIN SHALL HAVE A CONCRETE BASE (MINIMUM 6" THICKNESS) EXTENDING 6" BEYOND OUTSIDE OF FOUR WALLS OF CATCH BASIN.
3. EVERY SEVENTH COURSE MUST BE A STRETCHER COURSE.
4. WALL SHALL BE MINIMUM 8" THICK.
5. PLASTER OUTSIDE WALLS WITH ½" NON-SHRINK MORTAR; INSIDE JOINTS MUST BE NEATLY STRUCK AND CLOSED.

PRECAST CONCRETE CATCH BASINS ARE ACCEPTABLE AND SHALL BE CONSTRUCTED PER THIS DRAWING AND THE FOLLOWING SPECIFICATIONS:
1. THE PRECAST UNIT SHALL CONFORM TO ODOT ITEM 706.13.
2. PRECAST WALLS AND BOTTOM SHALL HAVE A MINIMUM THICKNESS OF 6".
3. A 6" CONCRETE BASE EXTENSION IS REQUIRED ON ALL FOUR SIDES WHEN DEPTH (TOP OF GRATE TO LOWEST PIPE INVERT) EXCEEDS 4 FEET.
4. STACKED PRECAST SECTIONS MUST HAVE A TONGUE/GROOVE JOINT AND A BUTYL SEALANT.
5. SHOP DRAWING OF THE PRECAST UNIT SHALL BE SUBMITTED TO THE CITY ENGINEER FOR APPROVAL.



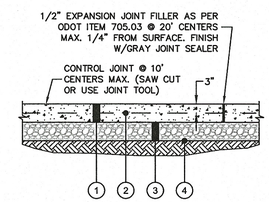
APPROVED DATE: MAR. 2012	
APPROVED BY: CDB, RMB, SLH	
DRAWING FILE NAME: ce_05.dwg	

REVISIONS

DESCRIPTION	DATE	BY

STANDARD DRAWING NO. 5
SQUARE-TOP WATER QUALITY CATCH BASIN

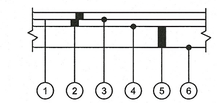
SHEET 1 OF 1



1. ITEM 451 – 6" REINFORCED CONCRETE PAVEMENT
2. 6x6 – 4/4 GA. W.W.F.
3. ITEM 304 – 6" AGGREGATE BASE
4. ITEM 204 – SUBGRADE COMPACTION

NOTES:
1.) EXPANSION JOINTS SHALL BE PLACED @ 20' CENTERS MAX. OR AS SHOWN ON THE PLANS.
2.) CONTROL JOINTS SHALL BE PLACED @ 10' CENTERS MAX. OR AS SHOWN ON THE PLANS.
3.) MIN. PAVEMENT CROSS SLOPE SHALL BE 1/8" PER FOOT
4.) USE EDGING TOOL AT PERIMETER.

CONCRETE DUMPSTER PAD SECTION
SCALE: NONE



1. ITEM 448 – 1-1/2" ASPHALT CONCRETE SURFACE COURSE, TYPE 1
2. ITEM 448 – 3-1/2" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2
3. ITEM 407 – TACK COAT (SEE NOTE 1)
4. ITEM 408 – BITUMINOUS PRIME COAT (0.4 GAL./S.Y.)
5. ITEM 304 – 6" AGGREGATE BASE
6. ITEM 204 – SUBGRADE COMPACTION

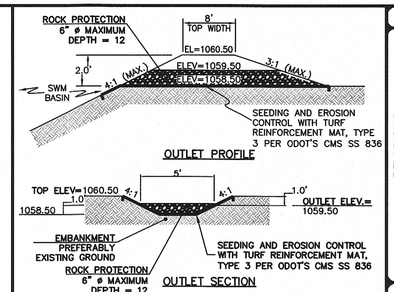
NOTE:
IF BOTH 448 PAVEMENTS ARE PLACED ON THE SAME DAY, THE TACK COAT MAY BE OMITTED, OTHERWISE THE TACK COAT SHALL BE APPLIED AT A RATE OF 0.075 GAL. PER SQ. YD.

HEAVY DUTY ASPHALT PAVEMENT SECTION
SCALE: NONE

1. ITEM 448 – 1-1/2" ASPHALT CONCRETE SURFACE COURSE, TYPE 1
2. ITEM 448 – 2-1/2" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2
3. ITEM 407 – TACK COAT (SEE NOTE 1)
4. ITEM 408 – BITUMINOUS PRIME COAT (0.4 GAL./S.Y.)
5. ITEM 304 – 6" AGGREGATE BASE
6. ITEM 204 – SUBGRADE COMPACTION

NOTE:
IF BOTH 448 PAVEMENTS ARE PLACED ON THE SAME DAY, THE TACK COAT MAY BE OMITTED, OTHERWISE THE TACK COAT SHALL BE APPLIED AT A RATE OF 0.075 GAL. PER SQ. YD.

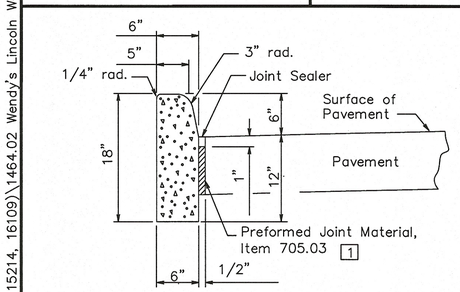
STD DUTY ASPHALT PAVEMENT SECTION
SCALE: NONE



SWM BASIN – EMERGENCY SPILLWAY
SCALE: NONE

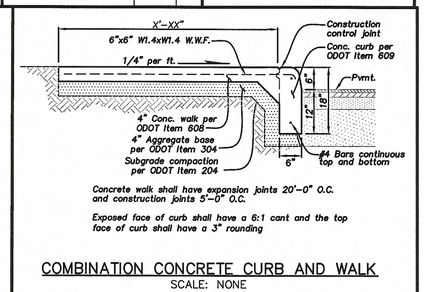
ELEV.	AREA (SF.)
1060	4399
1059	3600
1058	2964
1057	2384
1056	1860
1055	1393
1054	984

KEY NOTES: (#)
1. HW: ODOT 2.1 MOD FULL HEIGHT
2. ROCK CHANNEL PROTECTION TYPE C WITH FILTER FABRIC UNDERLAY (LENGTH = 5', WIDTH = 2', DEPTH = 1.5')
3. EMERGENCY SPILL WAY SEE DETAILS THIS SHEET.



[1] Expansion joint material and joint sealer are not required for the portion of the curb that is adjacent to a flexible pavement type. Both materials are required, as detailed, for the full height of rigid pavement and concrete bases.

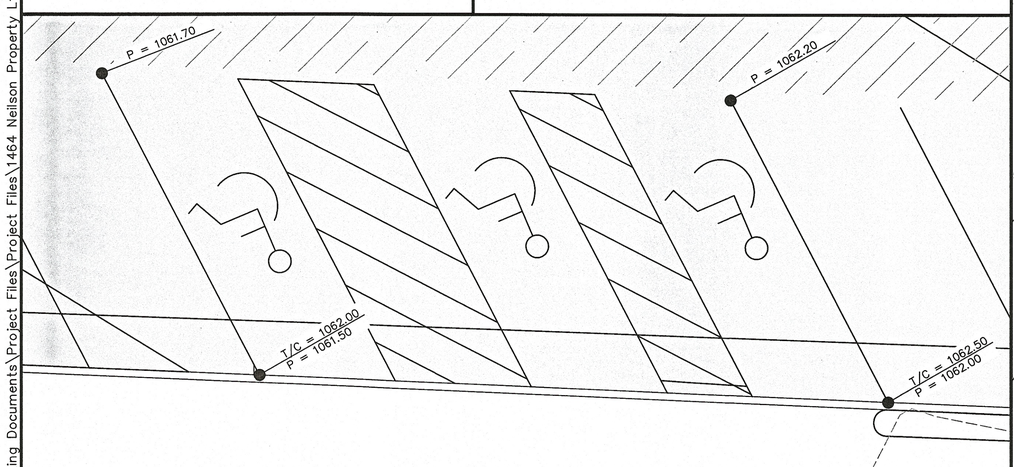
ODOT TYPE 6 CONCRETE CURB DETAIL
SCALE: NONE



Concrete walk shall have expansion joints 20'-0" O.C. and construction joints 5'-0" O.C.

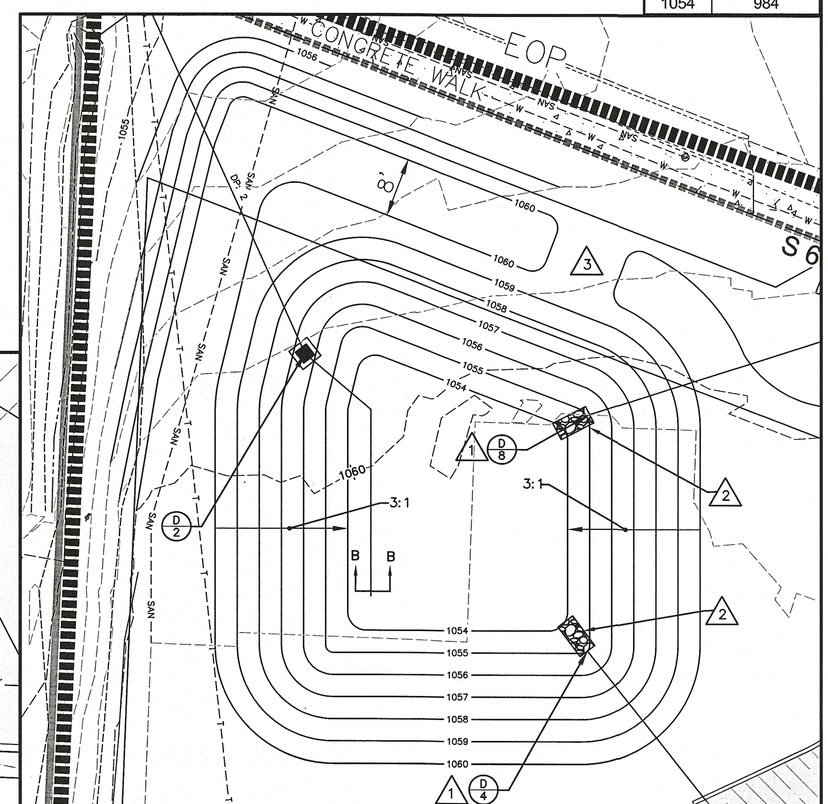
Exposed face of curb shall have a 6:1 cant and the top face of curb shall have a 3" rounding

COMBINATION CONCRETE CURB AND WALK
SCALE: NONE



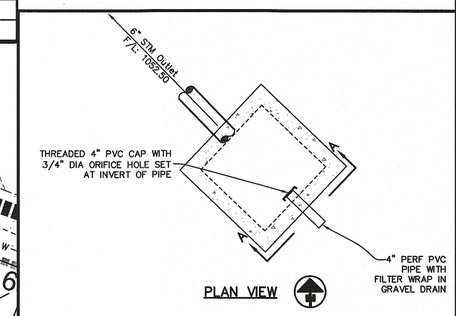
HANDICAP PARKING
SCALE: 1" = 5'

5 0 2.5 5 10
1 inch = 5 ft.

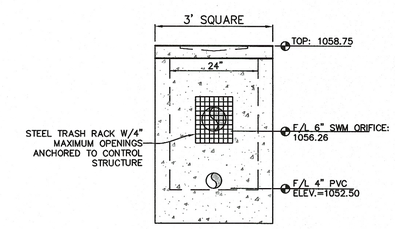


STORM WATER MANAGEMENT BASIN
SCALE: 1" = 10'

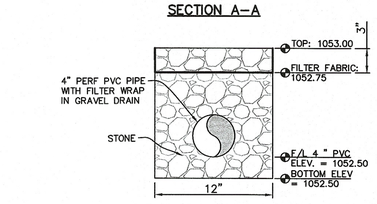
10 0 5 10 20
1 inch = 10 ft.



PLAN VIEW



SECTION A-A



SECTION B-B
SCALE: NONE

(D/2) CONTROL STRUCTURE DETAIL
SCALE: NONE

DETAILS

SHEET = 22"x34"

REVISIONS

1	CITY OF MASSILLON COMM.	JMG	06/28/2016
2			
3			
4			
5			
6			

COOPER & ASSOCIATES
ENGINEERS AND SURVEYORS
BRYAN J. ASHMAN
JEROLD E. GEIB
PHONE (330) 452-5731
4369 MARKET AVENUE NORTH
CANTON, OHIO 44714

STATE OF OHIO
BRYAN ASHMAN
E-043804
REGISTERED
PROFESSIONAL ENGINEER

DETAILS
WENDY'S LINCOLN WAY
LOCATED IN THE CITY OF MASSILLON
STARK COUNTY, OHIO
FOR: CANTON S GROUP

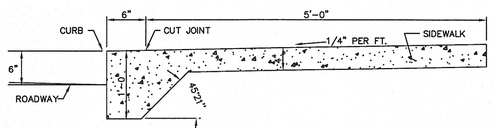
DRAWN BY: JMG
CHECKED BY: BJA
DATE 06/09/2016
SHEET C1.6
PROJ.# 15216

Kathy Catazaro-Perry, Mayor

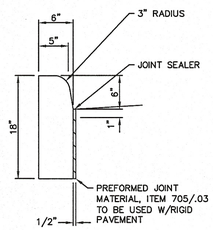
Massillon City of Champions

CITY OF MASSILLON ENGINEERING
151 LINCOLN WAY EAST
MASSILLON, OHIO (330)830-1722
FAX: (330)830-1786

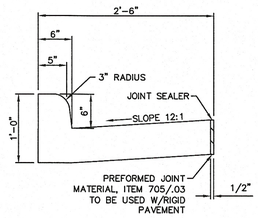
SIDEWALK AND CURB DETAILS



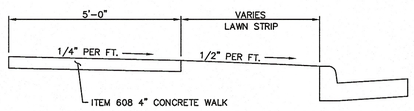
COMBINED CURB & SIDEWALK



CURB TYPE 6



CURB TYPE 2



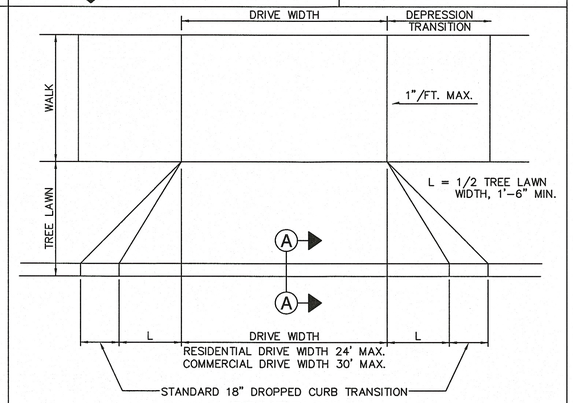
SIDEWALK

Francis H. Ciochinelli, Jr.
Mayor

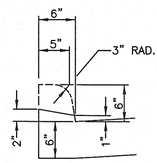
Massillon Means More!

CITY OF MASSILLON ENGINEERING
151 LINCOLN WAY EAST
MASSILLON, OHIO (330)830-1722
FAX: (330)830-1786

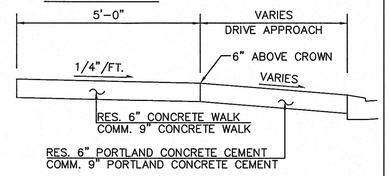
DRIVEWAY APPROACH DETAIL



DRIVE PLAN



A-A



DRIVE PROFILE

NOTE

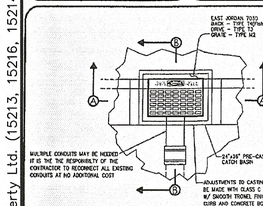
ANY DEVIATION FROM THIS MUST BE APPROVED BY THE CITY ENGINEER.
CONCRETE SHALL BE 4000 PSI CLASS C

Kathy Catazaro-Perry, Mayor

Massillon City of Champions

ITEM 604 MASS7030
City of Massillon
Stark County, Ohio

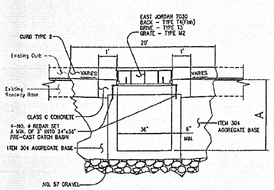
DRAWING NAME: _____.DWG
CITY NUMBER: 13st01



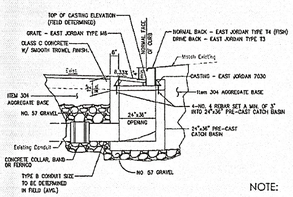
PLAN VIEW

ITEM 604 CATCH BASIN MASS7030				
Location Description	Removed	Side	A	Conduits

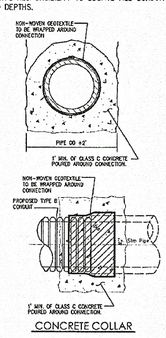
– CONTRACTOR'S RESPONSIBILITY TO LOCATE ALL CONDUIT LOCATIONS, SIZES, AND DEPTHS.



SECTION A-A



SECTION B-B



CONCRETE COLLAR

NOTE:

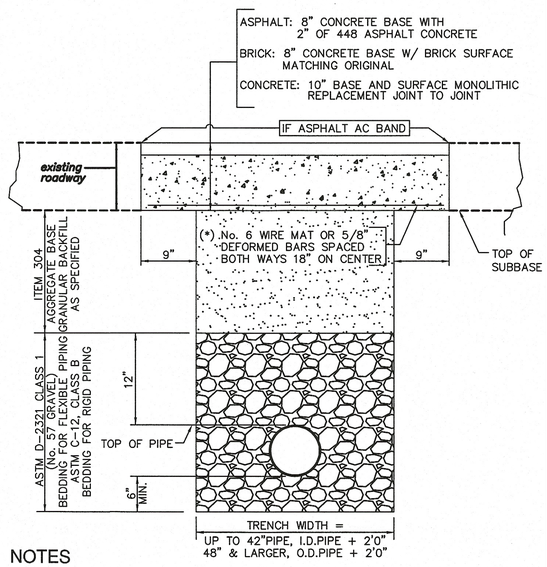
ALL MATERIAL AND LABOR TO PERFORM THE PROPER INSTALLATION OF TYPE ITEM 604 MASS7030 SHALL BE INCLUDED IN THE UNIT PRICE BID. THIS INCLUDES BUT NOT LIMITED TO THE REMOVAL OF EXISTING STRUCTURES, CONDUIT, ROADWAY, CURB, INSTALLATION OF 57 GRAVEL, ITEM 304 AGGREGATE BASE, JOINT SEALER CONDUIT PIPE, FERNCO, CLASS C CONCRETE, CONCRETE COLLAR, AND CURBING.

Kathy Catazaro-Perry, Mayor

Massillon City of Champions

CITY OF MASSILLON ENGINEERING
151 LINCOLN WAY EAST
MASSILLON, OHIO (330)830-1722
FAX: (330)830-1786

TRENCH DETAIL WITHIN ROADWAY/DRIVEWAY



NOTES

1) CONCRETE BASE SHALL BE OF 1:2:4, 6 BAG MIX, PORTLAND CEMENT CONCRETE USING HIGH EARLY STRENGTH CEMENT AND IT MUST BE CURED AT LEAST 48 HRS.

(*) MUST BE USED WHEN WIDTH OF TRENCH IS GREATER THAN 3' AT THE SUBBASE. FIBER CONCRETE BASE MAY BE USED IN LIEU OF THE BARS.

SHEET = 22"x34"

REVISIONS

1			
2			
3			
4			
5			
6	CITY OF MASSILLON COMM.	JMG	06/28/2016

BRYAN J. ASHMAN
JEROLD E. GEIB

COOPER & ASSOCIATES
ENGINEERS AND SURVEYORS
PHONE (330) 452-5731

1359 MARKET AVENUE NORTH
CANTON, OHIO
44714

STATE OF OHIO
BRYAN ASHMAN
E-043804
REGISTERED
PROFESSIONAL ENGINEER

DETAILS
WENDY'S LINCOLN WAY
LOCATED IN THE CITY OF MASSILLON
STARK COUNTY, OHIO
FOR: CANTON S GROUP

DRAWN BY: JMG
CHECKED BY: BJA
DATE 06/09/2016
SHEET C1.7
PROJ.# 15216

DETAILS

P:\Working Documents\Project Files\Project Files\1464 Neilson Property Ltd. (15213, 15216, 15214, 16109)\1464.02 Wendy's Lincoln Way\15216\dwg\15216_SP_CON_06-01-2016.dwg 6/30/2016