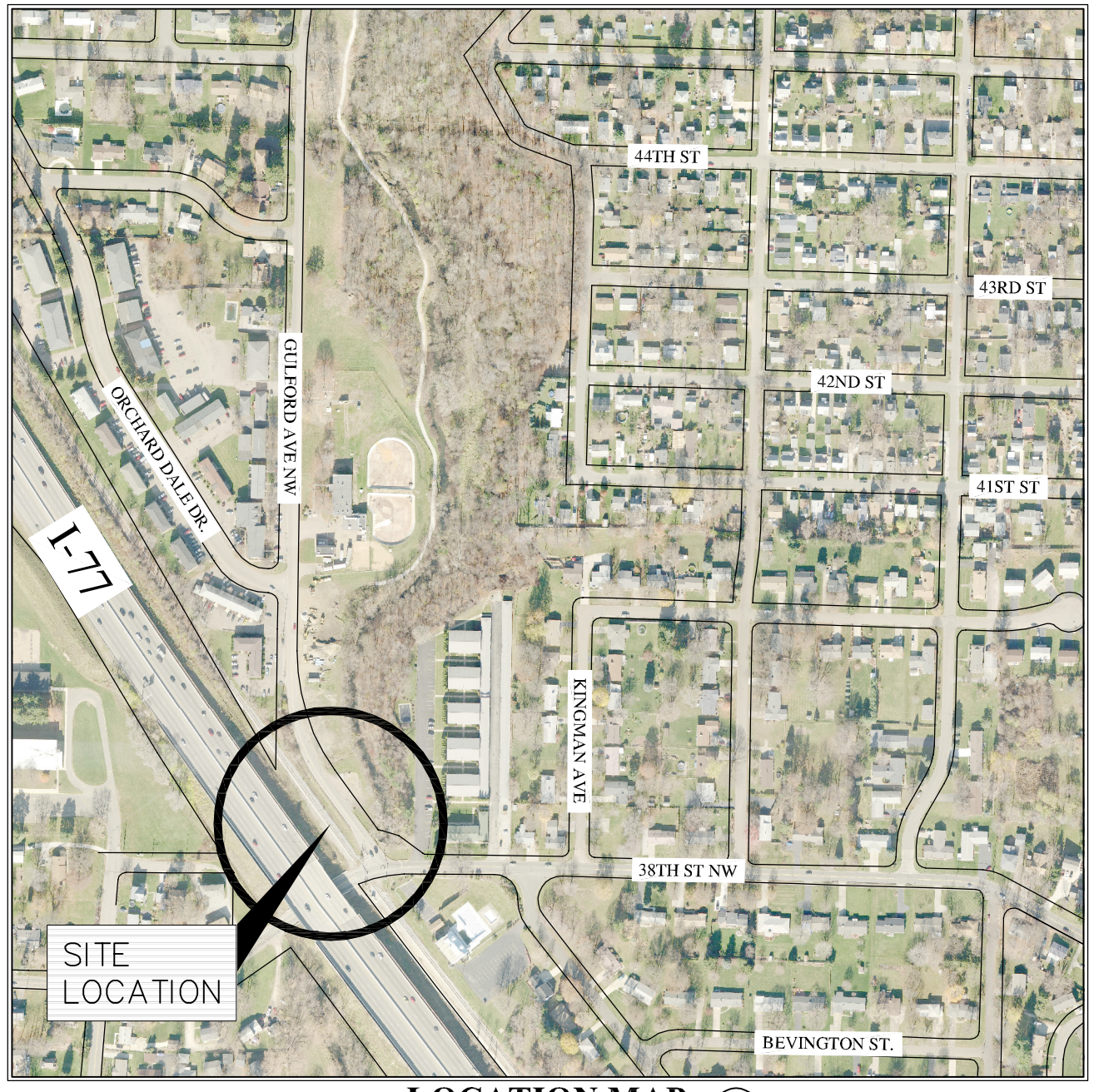
38TH STREET & GUILFORD AVE. TRAIL CROSSING

CITY OF CANTON
STARK COUNTY, OHIO

GENERAL PROJECT No. 1175



LOCATION MAP
SCALE: 1" = 200'

GENERAL NOTES:

1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE APPLICABLE CODES, ORDINANCES, AND STANDARD SPECIFICATIONS OF THE CITY OF CANTON, OHIO. IN LIEU OF ANY LOCAL SPECIFICATIONS WORK SHALL BE DONE IN CONFORMANCE WITH THE STATE OF OHIO DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND MATERIAL SPECIFICATIONS MOST RECENT EDITION.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL REQUIRED PERMITS FOR CONSTRUCTION.
3. ALL EXISTING FIELD CONDITIONS SHALL BE FIELD CHECKED AND VERIFIED BY CONTRACTORS PRIOR TO BIDDING AND CONSTRUCTION. SHOULD THERE BE ANY DISCREPANCY BETWEEN PLANS AND ACTUAL FIELD CONDITIONS, CONTRACTOR HAS TO SEEK WRITTEN CLARIFICATION FROM THE OWNER'S REPRESENTATIVE PRIOR TO COMMENCEMENT OF WORK.
4. SHOULD THE CONTRACTOR ENCOUNTER CONFLICT BETWEEN THESE PLANS AND SPECIFICATIONS, EITHER AMONG THEMSELVES OR WITH THE REQUIREMENTS OF ANY AND ALL REVIEWING AND PERMIT-ISSUING AGENCIES, THE CONTRACTOR SHALL SEEK CLARIFICATION IN WRITING FROM THE OWNER'S REPRESENTATIVE BEFORE COMMENCEMENT OF CONSTRUCTION.
5. IT SHALL BE CONTRACTOR'S SOLE RESPONSIBILITY TO CONSTRUCT ALL ITEMS ON THESE PLANS USING CONSTRUCTION MEANS AND METHODS THAT WILL PROTECT PROPERTY AND PREVENT BODILY INJURY AND/OR DEATH. THE CONTRACTOR SHALL TAKE ANY NECESSARY SAFETY PRECAUTIONS TO COMPLY WITH THE SAFETY REQUIREMENTS OF CITY, STATE, AND FEDERAL GOVERNMENTS.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ON-SITE EROSION CONTROL IN GENERAL CONFORMANCE WITH REQUIREMENTS OF THE STARK COUNTY SOIL & WATER CONSERVATION DISTRICT'S WATER QUALITY REGULATIONS AND IN SPECIFIC CONFORMANCE WITH THE FOLLOWING:

   PRIOR TO THE INITIATION OF ANY EARTHWORK OPERATIONS, THE CONTRACTOR SHALL INSTALL ' FILTER FABRIC (EXXON-GEOTEXTILE SILT FENCE FABRIC GTF-100S-10-5S OR APPROVED EQUAL) AS REPRESENTED ON SHEET 2. INSTALLATION PROCEDURES SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
7. UTILITIES REPRESENTED HEREON ARE PER FIELD SURVEY AND UTILITY COMPANY RECORDS. THE CONTRACTOR SHALL NOTIFY THE OHIO UTILITY PROTECTION SERVICE (OUPS) AT LEAST 2 DAYS PRIOR TO THE INITIATION OF ANY EARTHWORK OPERATIONS ON THE SITE. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR NOTIFYING ANY OTHER UTILITY COMPANIES THAT ARE NOT A MEMBER OF OUPS AND WHICH HAVE SERVICE IN THE AREA.
8. CONSTRUCTION SHALL BE PERFORMED, AND EQUIPMENT STORED, IN A MANNER WHICH PERMITS EXISTING FACILITIES TO PERFORM WITHOUT INTERRUPTION.
9. EXCESS EARTHWORK MATERIALS MAY BE DISTRIBUTED ON THE SITE IN ACCORDANCE WITH THE OWNERS DIRECTION.
10. ALL DEMOLITION MATERIALS SHALL BE REMOVED FROM THE SITE AND DISPOSED OF IN ACCORDANCE WITH THE LAW.
11. NO SOIL BORINGS WERE ACQUIRED FOR THIS PROJECT. THE CONTRACTOR MAY PERFORM HIS OWN SOILS INVESTIGATION AFTER OBTAINING APPROVAL FROM THE OWNER.
12. EMBANKMENT CONSTRUCTION AND SUBGRADE COMPACTION SHALL BE IN GENERAL CONFORMANCE WITH ODOT SPECIFICATIONS AND MORE SPECIFICALLY AS FOLLOWS: STANDARD PROCTOR UNDER PAVEMENT = 100%, IN UTILITY TRENCHES = 95% AND IN YARD AREAS = 90%.

CONVENTIONAL SIGNS

- PROPERTY LINE
- CENTERLINE
- EXIST. RIGHT-OF-WAY (Ex. R/W)
- PROP. RIGHT-OF-WAY (R/W)
- QUARTER SECTION LINE
- SECTION LINE
- CORPORATION LINE
- LOT LINE
- EXIST. STORM SEWER (Exist. M.H.)
- PROP. STORM SEWER (PROP. M.H.)
- EXIST. WATER MAIN (Exist. Valve)
- PROP. WATER MAIN (PROP. FIRE HYD., PROP. VALVE)
- EXIST. GAS LINE
- EXIST. SANITARY SEWER (Exist. M.H.)
- EXIST. POLES (Telephone Pole, Power Pole, Light Pole)
- PROP. SANITARY SEWER (PROP. M.H.)

SHEET INDEX

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EX. CONDITIONS & DEMOLITION PLAN ____ 2
SITE PLAN & GEOMETRICS ____ 3
DETAILS ____ 4

2010 SPECIFICATIONS
THE 2010 STANDARD SPECIFICATIONS OF THE STATE OF OHIO, DEPARTMENT OF TRANSPORTATION, AND THE CITY OF CANTON, SHALL GOVERN THIS IMPROVEMENT.

APPROVED:_____ DATE:_____
DAN MOEGLIN, P.E.
CITY ENGINEER

REVISIONS

FINAL CITY COMMENTS	RAF	02-09-12
CITY COMMENTS	RAF	11-14-11

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TITLE SHEET AND GENERAL NOTES
38TH ST. & GUILFORD TRAIL CROSSING
LOCATED IN THE CITY OF CANTON
STARK COUNTY, OHIO
FOR: CITY OF CANTON

DRAWN BY: RAF
CHECKED BY: BJA
DATE SEPTEMBER 2011
SHEET 1 OF 4
PROJ.# 11156

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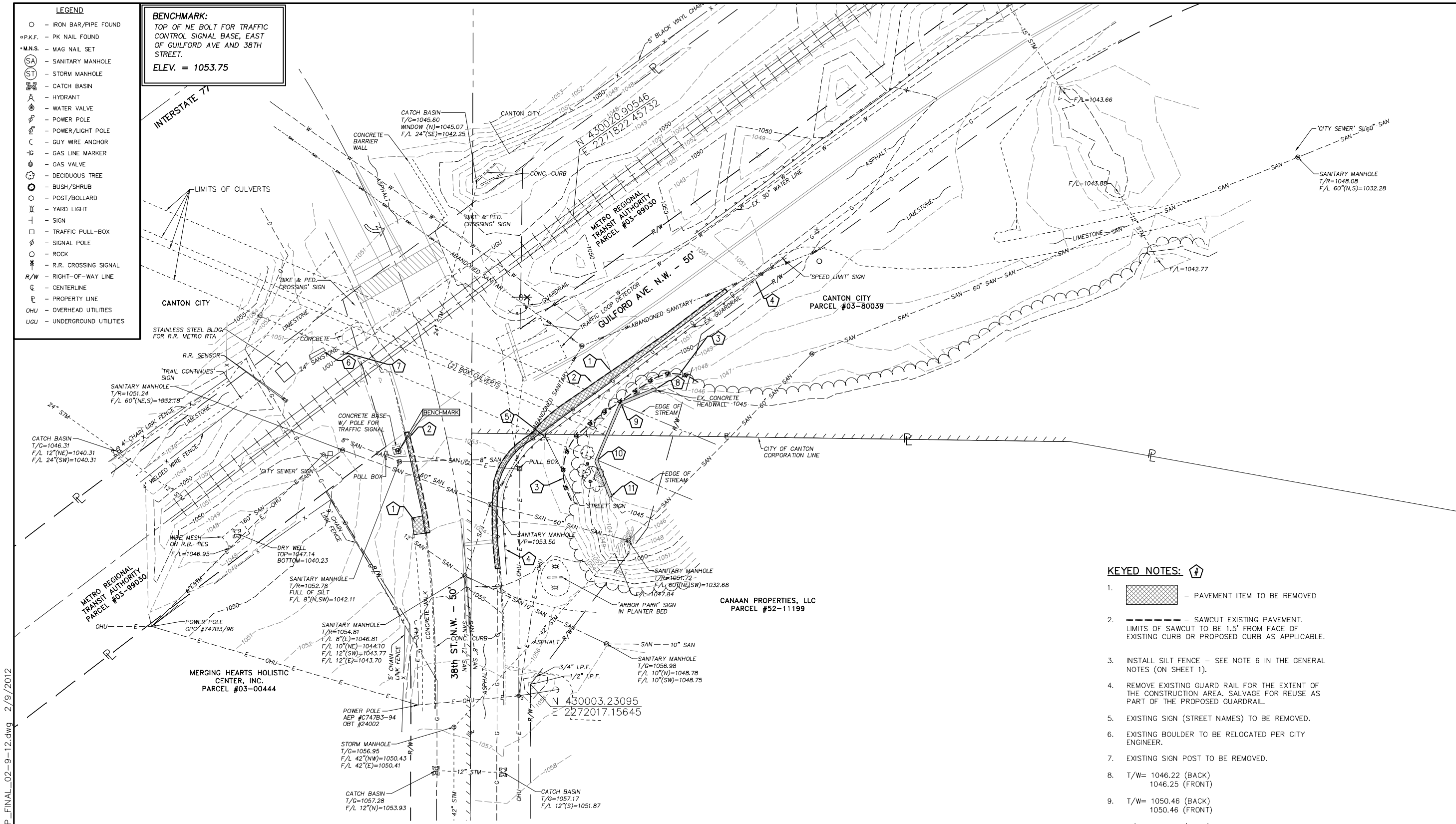
LEGEND

- ○ – IRON BAR/PIPE FOUND
- ○P.K.F. – PK NAIL FOUND
- •M.N.S. – MAG NAIL SET
- (SA) – SANITARY MANHOLE
- (ST) – STORM MANHOLE
- – CATCH BASIN
- – HYDRANT
- – WATER VALVE
- – POWER POLE
- – POWER/LIGHT POLE
- – GUY WIRE ANCHOR
- –G – GAS LINE MARKER
- – GAS VALVE
- – DECIDUOUS TREE
- – BUSH/SHRUB
- – POST/BOLLARD
- – YARD LIGHT
- – SIGN
- – TRAFFIC PULL-BOX
- – SIGNAL POLE
- – ROCK
- – R.R. CROSSING SIGNAL
- R/W – RIGHT-OF-WAY LINE
- – CENTERLINE
- – PROPERTY LINE
- OHU – OVERHEAD UTILITIES
- UGU – UNDERGROUND UTILITIES

BENCHMARK:
TOP OF NE BOLT FOR TRAFFIC CONTROL SIGNAL BASE, EAST OF GUILFORD AVE AND 38TH STREET.
ELEV. = 1053.75



KEYED NOTES: (#)

1. ▨ – PAVEMENT ITEM TO BE REMOVED
2. – – – – – – – SAWCUT EXISTING PAVEMENT. LIMITS OF SAWCUT TO BE 1.5' FROM FACE OF EXISTING CURB OR PROPOSED CURB AS APPLICABLE.
3. INSTALL SILT FENCE – SEE NOTE 6 IN THE GENERAL NOTES (ON SHEET 1).
4. REMOVE EXISTING GUARD RAIL FOR THE EXTENT OF THE CONSTRUCTION AREA. SALVAGE FOR REUSE AS PART OF THE PROPOSED GUARDRAIL.
5. EXISTING SIGN (STREET NAMES) TO BE REMOVED.
6. EXISTING BOULDER TO BE RELOCATED PER CITY ENGINEER.
7. EXISTING SIGN POST TO BE REMOVED.
8. T/W= 1046.22 (BACK) 1046.25 (FRONT)
9. T/W= 1050.46 (BACK) 1050.46 (FRONT)
10. T/W= 1050.49 (BACK) 1050.45 (FRONT)
11. T/W= 1046.31 (BACK) 1045.41 (FRONT)

EX. CONDITIONS & DEMOLITION PLAN

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HORIZONTAL SCALE 1" = 20'

REVISIONS

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EX. CONDITIONS & DEMOLITION PLAN

38TH ST. & GUILFORD TRAIL CROSSING

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

DRAWN BY: RAF
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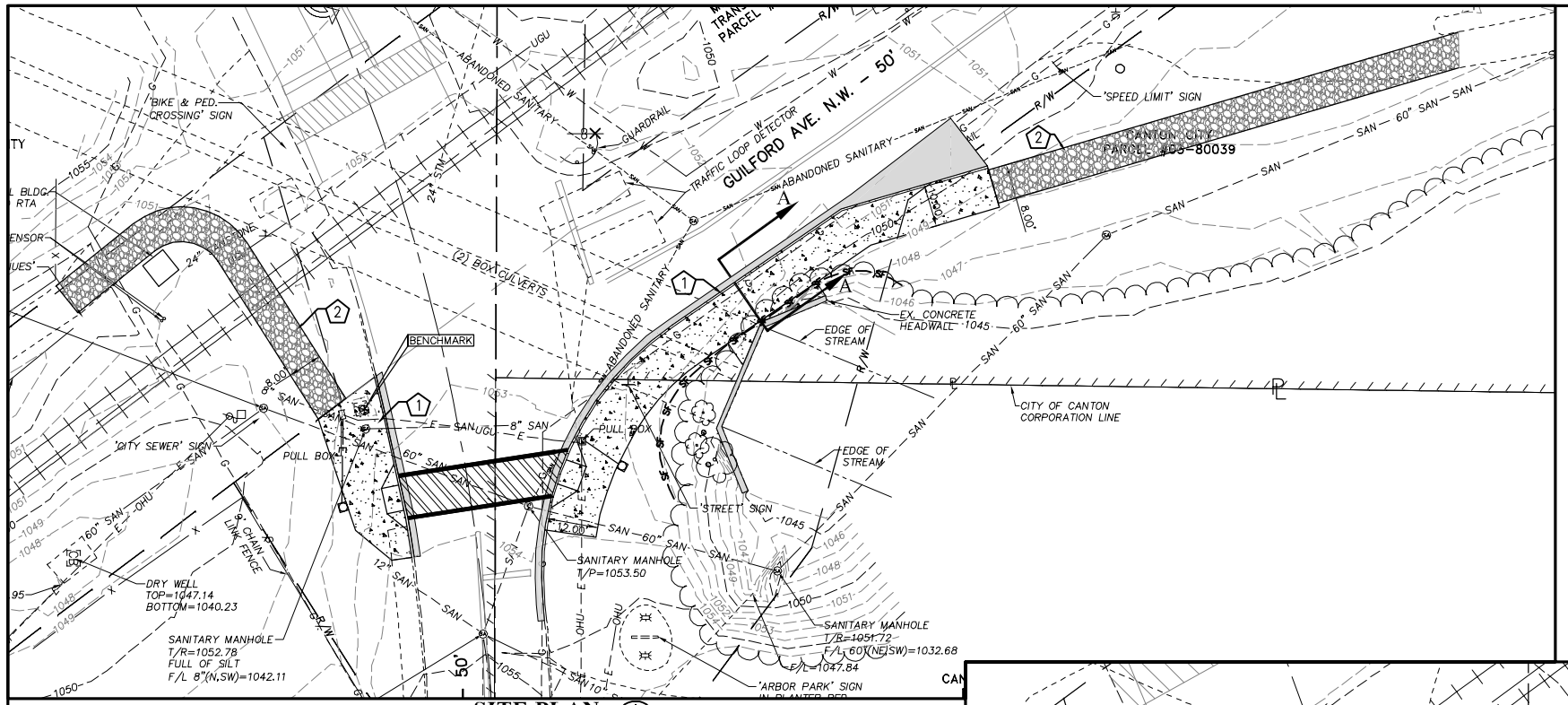
SHEET 2 OF 4

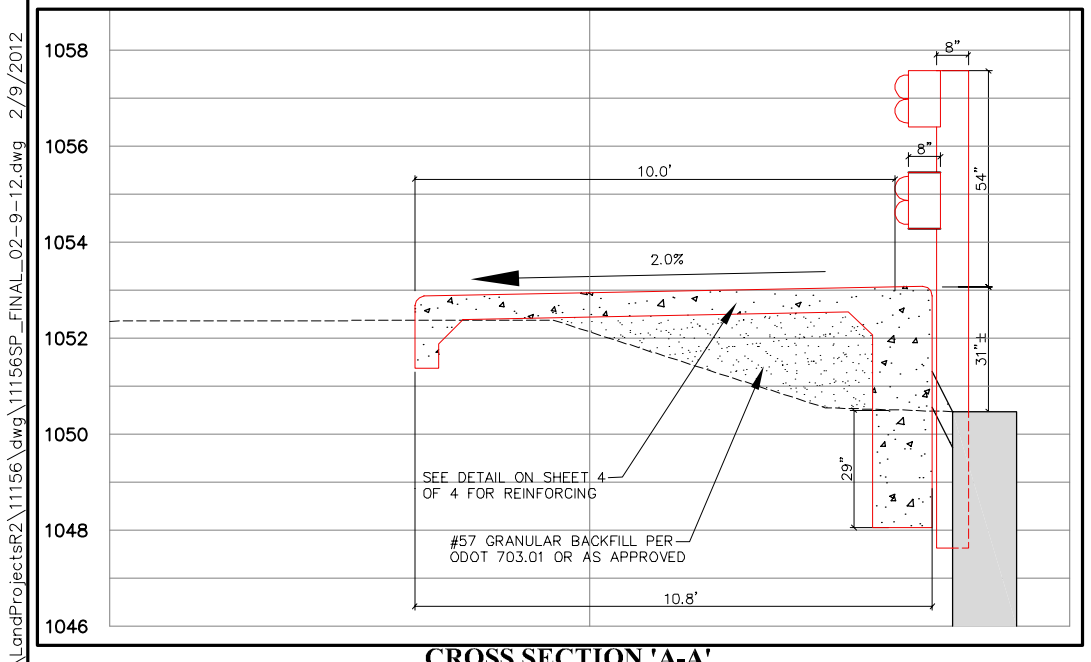
PROJ.# 11156



SITE PLAN
SCALE: 1" = 20'

KEYED NOTES:

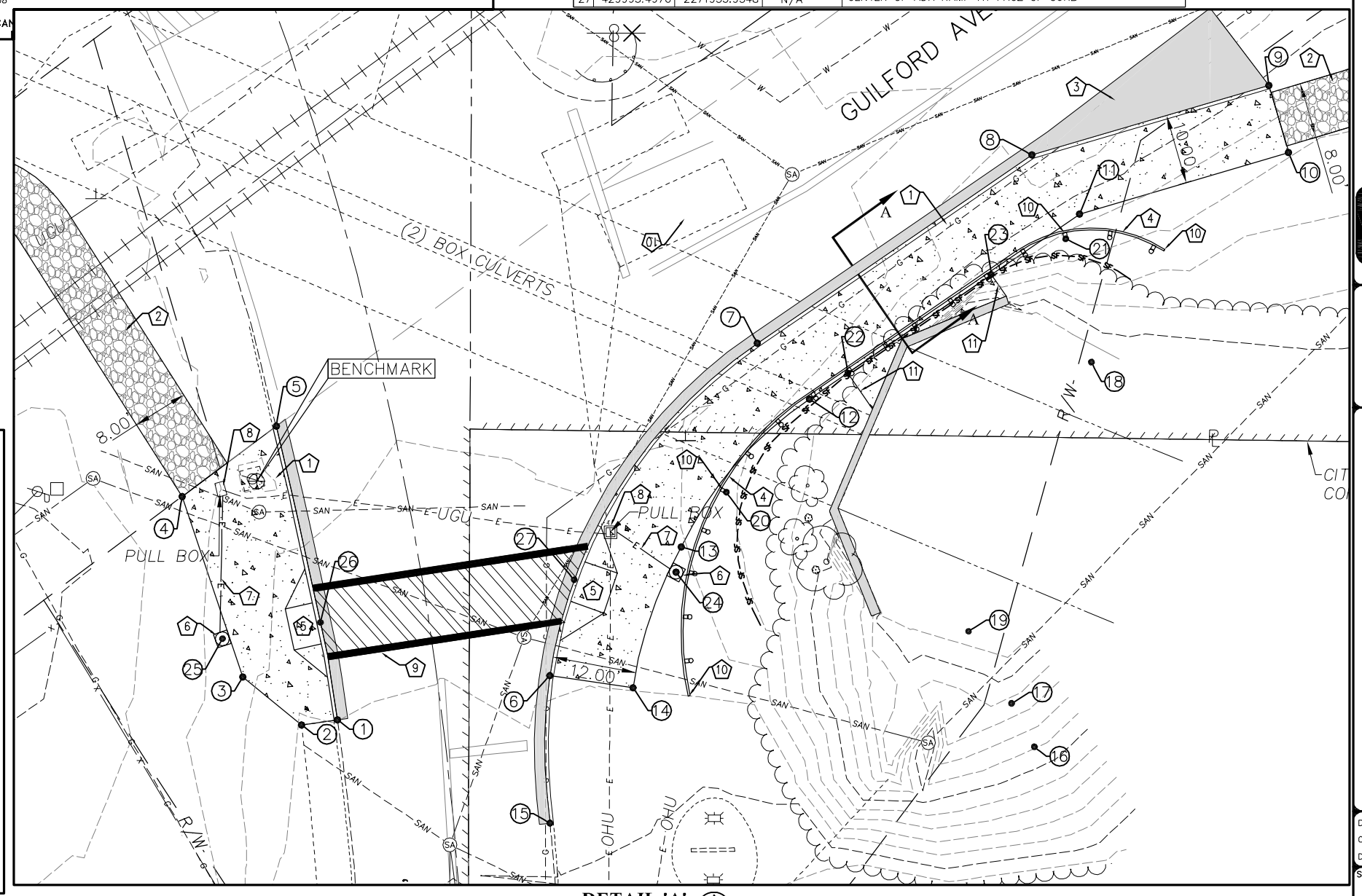
1. — PROPOSED CONCRETE SIDEWALK. SEE DETAIL FOR COMBINATION CONCRETE CURB AND WALK ON SHEET 4.
2. — PROPOSED GRAVEL WALKS BY STARK COUNTY PARKS DEPARTMENT.
3. — PROPOSED ASPHALT PAVEMENT. SEE DETAIL ON SHEET 4.
4. PROPOSED GUARDRAIL PER OHIO DEPARTMENT OF TRANSPORTATION STANDARD ROADWAY CONSTRUCTION DRAWING GR-2.1.
5. PROPOSED DOUBLE WIDE WHEEL CHAIR RAMP PER CANTON STANDARD DRAWING NO.33.
6. PROPOSED PEDESTRIAN CROSSING / SIGNAL POLE. BASE AND CONDUIT CONNECTION PER ODOT – OFFICE OF TRAFFIC ENGINEERING DETAIL TC-83.20. ALL ABOVE GROUND POLE WORK AND WIRING INSTALLATION TO BE DONE BY THE CITY OF CANTON, EXCEPT THAT THE CONTRACTOR IS RESPONSIBLE FOR THE TRANSPORTATION OF THE EQUIPMENT FROM THE CITY ENGINEER'S OFFICE TO THE SITE.
7. 2" CONDUIT FROM EXISTING POLE BOX TO PROPOSED PEDESTRIAN POLE.
8. RECONSTRUCT EXISTING POLE BOX TO PROPOSED GRADE.
9. PROPOSED PEDESTRIAN CROSS WALK PAVEMENT MARKINGS PER MUTCD SECTION 3B.17.
10. END GUARDRAIL WITH W-BEAM FLARED END SECTION PER ODOT STANDARD DRAWING NO. GR-1.1
11. CONCRETE SPLASH COAT. SEE EXTENDED INTEGRAL CONCERT CURB AND WALK DETAIL ON SHEET 4.



CROSS SECTION 'A-A'
SCALE: 1" = 2'

COORDINATE LAYOUT TABLE:

#	NORTHING	EASTING	ELEVATION	COMMENTS
1	429959.6855	2271953.9597	1054.50	FACE OF CURB – MATCH EXISTING
2	429954.5496	2271954.6924	1054.61	EDGE OF SIDEWALK – MATCH EXISTING
3	429946.1287	2271947.8616	1054.44	EDGE OF SIDEWALK
4	429937.4544	2271922.0343	1053.55	EDGE OF SIDEWALK
5	429950.8883	2271912.0120	1053.20	FACE OF CURB – MATCH EXISTING
6	429990.0341	2271947.6382	1054.44	FACE OF CURB AT END OF WALK
7	430019.6891	2271900.1243	1053.05	FACE OF CURB
8	430058.9255	2271873.2099	1051.70	FACE OF CURB
9	430092.7783	2271863.2718	1050.28	FACE OF CURB AT END OF WALK
10	430095.5951	2271872.8669	1050.49	EDGE OF SIDEWALK
11	430065.7419	2271881.6308	1051.93	EDGE OF SIDEWALK / END EXTENDED SIDEWALK SECTION
12	430027.1336	2271908.1144	1053.28	EDGE OF SIDEWALK
13	430008.8194	2271929.2625	1054.07	EDGE OF SIDEWALK
14	430001.9058	2271949.3886	1054.69	EDGE OF SIDEWALK
15	429990.0374	2271968.7499	1054.91	FACE OF CURB – MATCH EXISTING
16	430059.2854	2271957.8489	N/A	CENTER OF RADIUS OF CURB (70')
17	430056.0261	2271951.6392	N/A	CENTER OF RADIUS OF BACK OF WALK AT TRANSITION (52')
18	430067.4422	2271902.8193	N/A	CENTER OF RADIUS OF GUARDRAIL (19')
19	430049.8804	2271941.3217	N/A	CENTER OF RADIUS OF GUARDRAIL (41')
20	430015.2635	2271921.4355	N/A	TRANSITION FROM SINGLE TO DOUBLE RAIL GUARDRAIL
21	430063.7656	2271885.1988	N/A	TRANSITION FROM DOUBLE TO SINGLE RAIL GUARDRAIL
22	430032.6037	2271904.3621	N/A	BEGIN EXTENDED SIDEWALK & CONC. SPLASH COAT
23	430053.1291	2271890.2826	N/A	END CONCRETE SPLASH COAT
24	430008.0546	2271932.8598	N/A	CENTER OF PEDESTRIAN POLES
25	429943.2308	2271942.3742	N/A	CENTER OF PEDESTRIAN POLES
26	429957.2210	2271940.0551	N/A	CENTER OF ADA RAMP AT FACE OF CURB
27	429993.4970	2271933.9348	N/A	CENTER OF ADA RAMP AT FACE OF CURB



DETAIL 'A'
SCALE: 1" = 10'

SITE PLAN & GEOMETRICS

SCALE: NOTE ON PLAN

REVISIONS

1	FINAL CITY COMMENTS	RAF 02-09-12
2	CITY COMMENTS	RAF 11-14-11

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SITE PLAN & GEOMETRICS
LOCATED IN THE CITY OF CANTON
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38TH ST. & GUILFORD TRAIL CROSSING

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SHEET 3 OF 4
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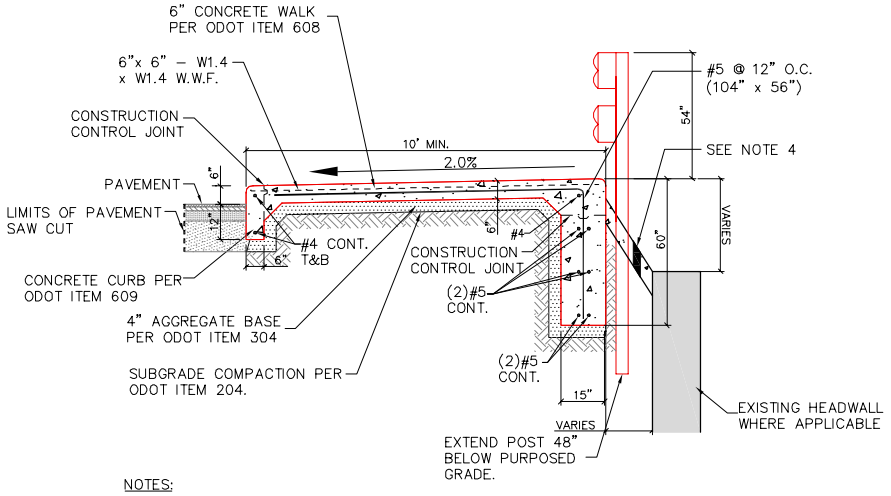
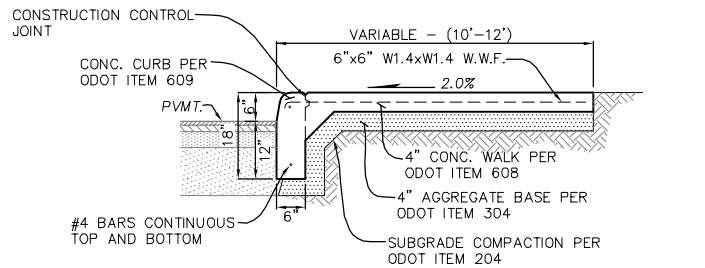


NOTES:

1. SEE SHEET 3 FOR GEOMETRIC LAYOUT AND DISTANCE OFFSETS FOR HEADWALL AND GUARDRAILS.
2. CONCRETE WALK SHALL HAVE EXPANSION JOINTS 20'–0" O.C. AND CONSTRUCTION JOINTS 5'–0" O.C.
3. EXPOSED FACE OF CURB SHALL HAVE A 6:1 CANT AND THE TOP FACE OF CURB SHALL HAVE A 3" ROUNDING
4. CONCRETE SPLASH COAT WITHIN DESIGNATED LIMITS PROVIDED OF SHEET 3. CONCRETE SHALL BE 4" THICK; SURFACE SHALL HAVE A ROUGH FINISH.
5. CONCRETE SHALL BE 4,000 PSI MINIMUM WITH 6% AIR.
6. STEAL SHALL HAVE A STRENGTH OF 60,000 PSI MIN.

EXTENDED INTEGRAL CONRETE CURB AND WALK

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

INTEGRAL CONCRETE CURB AND WALK

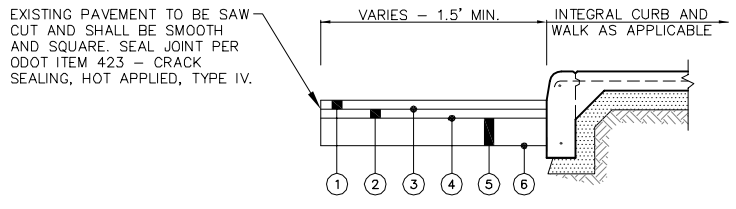
SCALE: NONE

PROJECT QUANTITIES:

PROJ: 38th & Guilford Trail Crossing - GP # 1175

DATE : 2/8/2012

ODOT ITEM	DESCRIPTION	UNIT	QTY
201	CLEAR & GRUB	LUMP	1
202	SIGN AND POST REMOVED	EA	1
202	ASPHALT PAVEMENT REMOVED (INCLUDES SAWCUT)	SY	57
202	CURB REMOVED	LF	143
202	GUARDRAIL REMOVED FOR REUSE (INCLUDES POSTS)	LF	189
253	ASPHALT PAVEMENT (FULL SECTION COMP)	SY	57
452	4" NON-REINFORCED CONCRETE SPLASH COAT	SF	63
604	ADJUST MANHOLE RIM	EA	1
606	GUARDRAIL, W-BEAM FLARED END SECTION	EA	4
606	GUARDRAIL, TYPE 5 - SINGLE RAIL COMPLETE	LF	46
606	GUARDRAIL, TYPE 5 - DOUBLE RAIL COMPLETE	LF	63
608	DOUBLE CONC CURB RAMPS; CANTON STD	EA	2
608	CONCRETE CURB (ODOT TYPE 6 = 6" X 18")	LF	21
608	EXTENDED INTEGRAL CONCRETE CURB & WALK	SF	430
608	INTEGRAL CONCRETE CURB & WALK	SF	1,425
614	MAINTAINING TRAFFIC	LUMP	1
623	CONSTRUCTION LAYOUT STAKES	LUMP	1
630	PEDESTRIAN POLE BASE	EA	2
625	2" PVC ELECTRIC CONDUIT (MAT SPEC = 725.05)	LF	29
632	RECONSTRUCT PULL BOX TOPS TO GRADE	EA	2
642	PAVEMENT MARKING - CROSSWALK COMPLETE	EA	1
651	TOPSOIL STRIPPED & STOCKPILIED	LUMP	1
659	SEEDING & MULCHING (INCL TOPSOIL REPLCMT)	LUMP	1



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

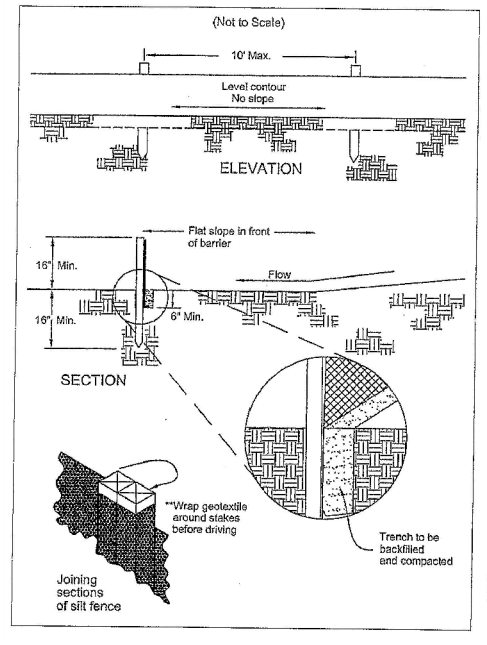
NOTE:
1.) IF BOTH 448 PAVEMENTS ARE PLACED ON THE SAME DAY, THE TACK COAT MAY BE OMITTED, OTHERWISE THE TACK COAT SHALL BE APPLIED AT A RATE OF 0.075 GAL. PER SQ. YD.

ASPHALT PAVEMENT REPLACEMENT DETAIL

SCALE: NONE

Specifications
for

Silt Fence



1. Silt fence shall be constructed before upslope land disturbance begins.
2. All silt fence shall be placed as close to the contour as possible so that water will not concentrate at low points in the fence and so that small swales or depressions that may carry small concentrated flows to the silt fence are dissipated along its length.
3. Ends of the silt fences shall be brought upslope slightly so that water ponded by the silt fence will be prevented from flowing around the ends.
4. Silt fence shall be placed on the flattest area available.
5. 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.
6. The height of the silt fence shall be a minimum of 16 inches above the original ground surface.
7. 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.
8. The silt fence shall be placed with the stakes on the downslope side of the geotextile. A minimum of 8 inches of geotextile must be below the ground surface. Excess material shall lay on the bottom of the 6-inch deep trench. The trench shall be backfilled and compacted on both sides of the fabric.
9. Seams between sections of silt fence shall be spliced together only at a support post with a minimum 6-in. overlap prior to driving into the ground, (see details).
10. Maintenance—Silt fence shall allow runoff to pass only as diffuse flow through the geotextile. If runoff overtops 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: 1) the layout of the silt fence shall be changed, 2) accumulated sediment shall be removed, or 3) 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.

Criteria for silt fence materials

1. 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.
2. Silt fence fabric – See chart below.

Table 6.3.2 Minimum criteria for Silt Fence Fabric (ODOT, 2002)

FABRIC PROPERTIES	VALUES	TEST METHOD
Minimum Tensile Strength	120 lbs. (535 N)	ASTM D 4632
Maximum Elongation at 60 lbs	50%	ASTM D 4632
Minimum Puncture Strength	50 lbs (220 N)	ASTM D 4833
Minimum Tear Strength	40 lbs (180 N)	ASTM D 4533
Apparent Opening Size	≤ 0.84 mm	ASTM D 4751
Minimum Permittivity	1X10-2 sec.-1	ASTM D 4491
UV Exposure Strength Retention	70%	ASTM G 4355

REVISIONS

FINAL CITY COMMENTS	RAF	02–09–12
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DETAILS

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LOCATED IN THE CITY OF CANTON
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SHEET 4 OF 4

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