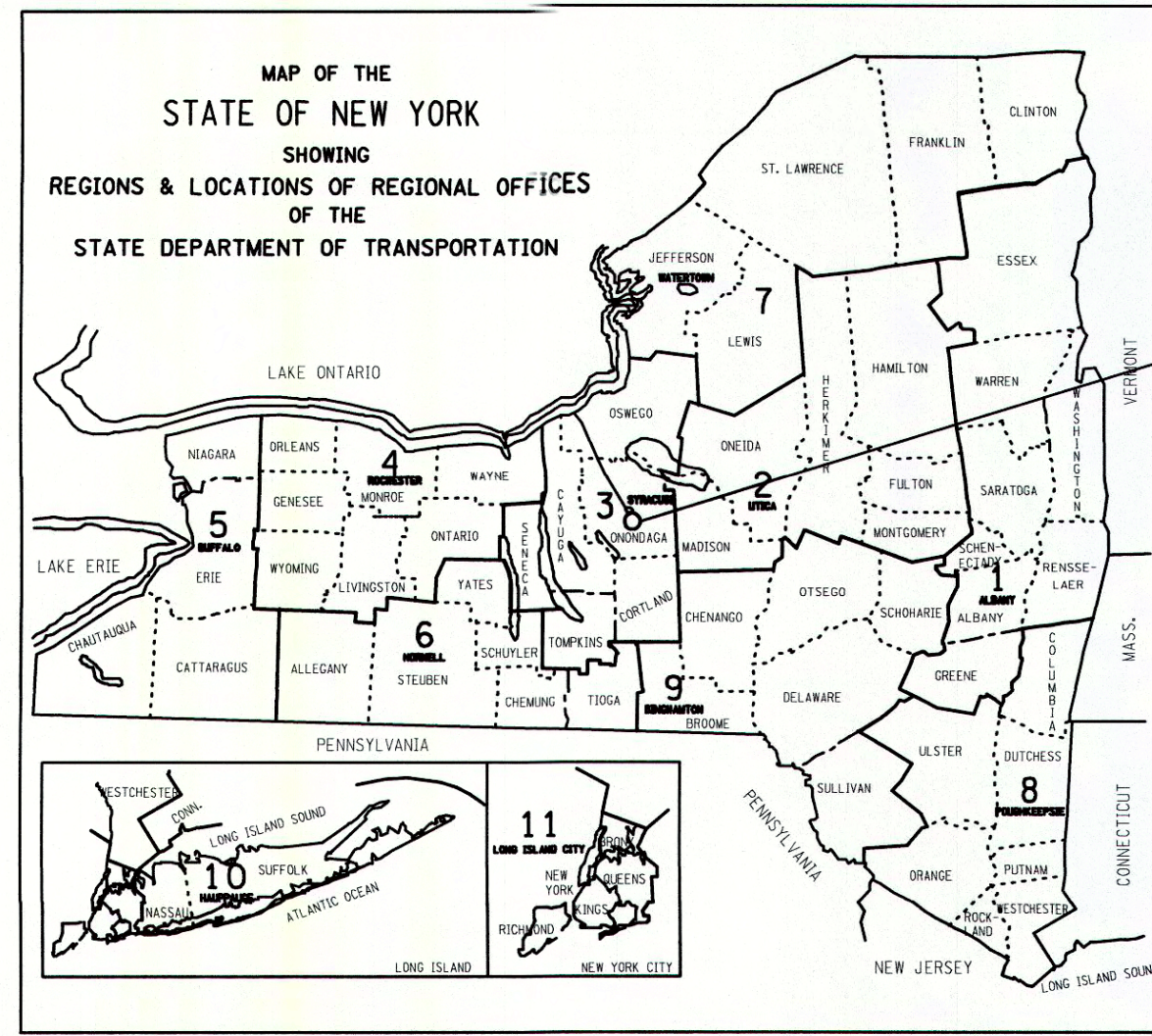
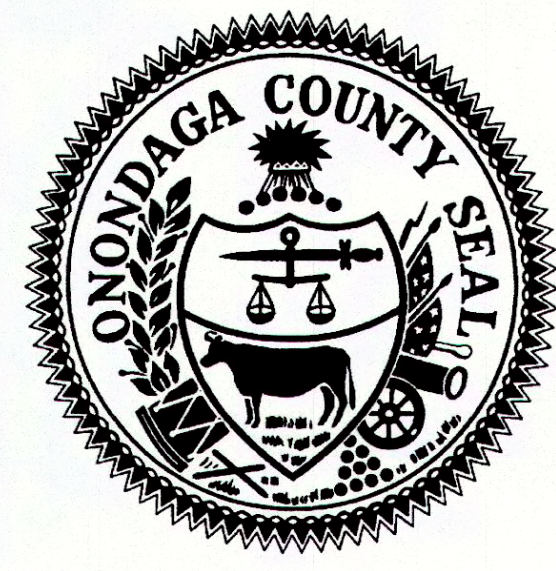


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 JPD
 IN CHARGE OF



PROJECT LOCATION



STANDARD SHEETS:
 ALL WORK CONTEMPLATED UNDER THIS CONTRACT IS TO BE COVERED BY
 AND IN CONFORMITY WITH THE ONONDAGA COUNTY GREEN INFRASTRUCTURE
 PROGRAM 2015 ANNUAL GREEN STRUCTURES CONTRACT AT VARIOUS LOCATIONS.
 CONTRACT NUMBER: 1G - GENERAL; 1L - LANDSCAPE
 BID REFERENCE NUMBER: 7724
 VOLUME II OF II: STANDARD DETAILS

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING
 UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER,
 ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN
 ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED
 PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT,
 LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE
 DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY
 THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC
 DESCRIPTION OF THE ALTERATION.

ONONDAGA COUNTY DEPARTMENT OF WATER ENVIRONMENT PROTECTION TASK ORDER 2016-007G/005L

CITY OF SYRACUSE ONONDAGA COUNTY, NY

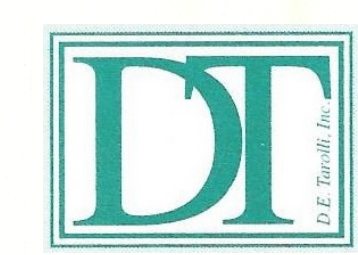
OFFICE OF THE COUNTY EXECUTIVE
 JOANNE M. MAHONEY
 COUNTY EXECUTIVE
 OCDWEP COMMISSIONER
 TOM RHODS

FEBRUARY 2017

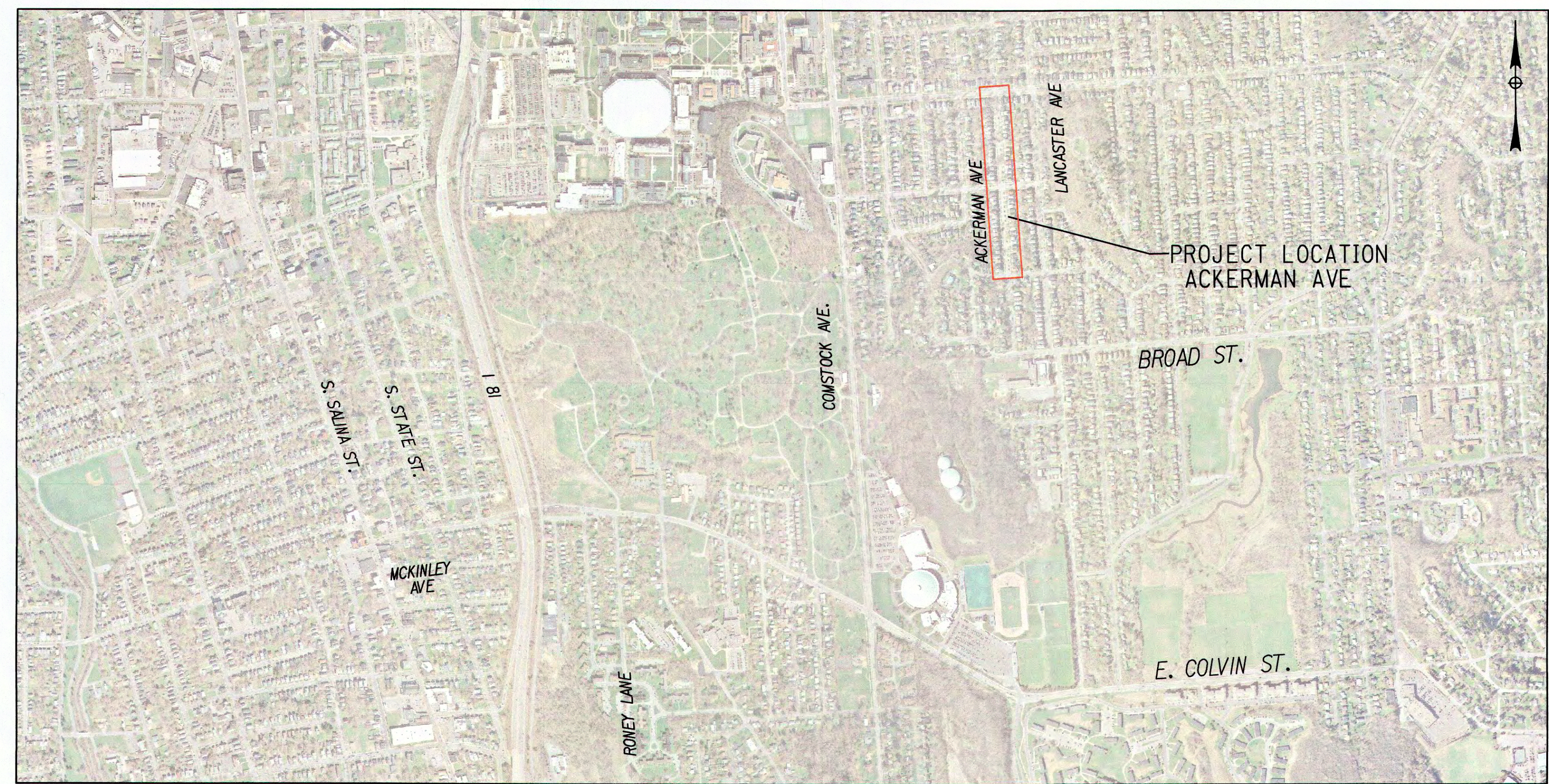
RECOMMENDED BY

TOM RHODS, 3/6/17
 OCDWEP COMMISSIONER DATE

DRAWING NAME	DRAWING #	SHEET #
COVER	-	1
GENERAL NOTES AND LEGEND	GN-1	2
ACKERMAN AVE DEMOLITION PLANS	DM-1 TO DM-4	3 - 6
DRAINAGE AREA PLANS	DA-1	7
ACKERMAN AVE DRAINAGE TABLE	DRT-1	8
ACKERMAN AVE INFILTRATION TRENCH PROFILES	PR-1, PR-2	9, 10
ACKERMAN AVE GENERAL PLANS	APL-1 TO APL-4	11-14
ACKERMAN AVE PLANTING PLANS	APP-1 TO APP-4	15-18
MISCELLANEOUS DETAILS	MD-1, MD-2	19, 20
WORK ZONE TRAFFIC CONTROL	WZTC-1 TO WZTC-5	21 - 25

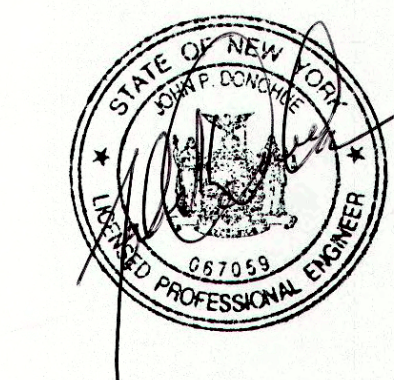


D.E. TAROLLI, INC.
 RECORD DRAWINGS
 11/27/2017



PROJECT LOCATION

PREPARED AND RECOMMENDED BY
 BARTON & LOGUIDICE, D.P.C.



JOHN P. DONOHUE, P.E., LEED AP 02/24/17
 NEW YORK STATE PROFESSIONAL ENGINEERS LICENSE NO. 067059 DATE

CONTRACTOR'S NAME _____	
AWARD DATE _____	
COMPLETION DATE _____	
FINAL ACCEPTANCE DATE _____	
ENGINEER IN CHARGE _____	
FINAL COST TOTAL _____	
FISCAL SHARE _____ COST(S) _____	

CSO 060/077 GREEN STREETS PROJECT			
TASK ORDER: 2016-007G/005L			
ONONDAGA CO. DEPT. OF WATER ENVIRONMENT PROTECTION			
CITY OF SYRACUSE, ONONDAGA COUNTY			
FED. ROAD REG. NO.	STATE	SHEET NO.	TOTAL SHEETS
	N.Y.	1	25
FEDERAL AID PROJECT NO.			
CAPITAL PROJECT IDENTIFICATION NO.			

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IN CHARGE OF JPD
DESIGNED BY KAW
CHECKED BY MCB
DRAFTED BY PJJ
CHECKED BY KAW
PUCJ
KAW

GENERAL NOTES

STANDARD DETAIL REFERENCES IN THE PLANS REFER TO THE ONONDAGA COUNTY GREEN INFRASTRUCTURE 2015 ANNUAL GREEN STRUCTURES CONTRACT AT VARIOUS LOCATIONS, VOLUME II OF II: STANDARD DETAILS.

GENERAL CONSTRUCTION

EXISTING TOPOGRAPHY, STRUCTURES, AND SITE FEATURES ARE SHOWN SCREENED AND/OR LIGHT-LINED. NEW FINISH GRADE, STRUCTURES, AND SITE FEATURES ARE SHOWN HEAVY-LINED.

ALL DISTURBED SIGNS SHALL BE RE-INSTALLED IN KIND IN THE SAME LOCATION AS PER THE ONONDAGA COUNTY GREEN INFRASTRUCTURE PROGRAM 2016 ANNUAL GREEN STRUCTURES DETAIL TU.04, UNLESS OTHERWISE NOTED.

COORDINATES AND DIMENSIONS SHOWN FOR ROADWAY IMPROVEMENTS ARE TO FACE OF CURB OR EDGE OF PAVEMENT.

PROVIDE TEMPORARY FENCING AS NECESSARY TO MAINTAIN SAFETY AND SECURITY AT ALL TIMES. SEE THE GENERAL SPECIFICATIONS SECTION S-041.

ELEVATIONS GIVEN ARE TO FINSH GRADE UNLESS OTHERWISE NOTED.

SLOPE UNIFORMLY BETWEEN CONTOURS AND SPOT ELEVATIONS SHOWN.

UNLESS SHOWN, ALL DISTURBED AREAS NOT RECEIVING A HARD SURFACE SHALL BE RESTORED WITH GRASS AS SPECIFIED.

NOTIFY DIG SAFELY NEW YORK (811) AT LEAST 72 HOURS PRIOR TO CONSTRUCTION.

AGGREGATE FOR STORMWATER INFILTRATION TRENCHES SHALL BE CLEAN-WASHED PRIOR TO PLACEMENT.

MAINTAIN LOOSE AND UNDISTRUBED STORMWATER INFILTRATION TRENCH SUBGRADE. SCARIFY TOP 6 INCHES. DO NOT ALLOW CONSTRUCTION EQUIPMENT ON TRENCH BOTTOM SURFACE.

PROTECT EXISTING TREES IDENTIFIED ON THE PLANS TO REMAIN, DURING CONSTRUCTION.

UNLESS OTHERWISE NOTED, EXISTING GRANITE CURBING IS TO BE LEFT IN PLACE OR REPLACED TO THE NEAREST JOINT FROM THE DISTURBED AREA. WHERE DISTURBED DURING CONSTRUCTION, ALL EXISTING MANHOLE AND CATCH BASIN FRAMES AND COVERS SHALL BE REINSTALLED UPON A MINIMUM OF 2 COURSES OF BRICK, WHICH SHALL BE REPLACED IN KIND. THIS WORK SHALL BE PERFORMED AT THE CONTRACTOR'S EXPENSE.

CONTRACTOR SHALL PREPARE A TRAFFIC CONTROL PLAN FOR VEHICULAR AND PEDESTRIAN TRAFFIC IN ACCORDANCE WITH THE FEDERAL HIGHWAY ADMINISTRATION MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS (MUTCD). TRAFFIC CONTROL PLAN SHALL BE APPROVED BY THE CITY OF SYRACUSE PRIOR TO THE COMMENCEMENT OF ALL CONSTRUCTION ACTIVITIES. ALL TRAFFIC CONTROL DEVICES SHALL REMAIN IN PLACE AND PROPERLY MAINTAINED FOR THE DURATION OF THE WORK.

WHERE DISTURBED, CONCRETE SIDEWALK TO BE REPLACED IN FULL WIDTH TO CLOSEST JOINT FROM DISTURBED AREA.

ADJUST TOPS OF EXISTING DRAINAGE STRUCTURES IN ACCORDANCE WITH NYSOT STANDARD SHEET 604-2.

AT CLOSE OF PROJECT, RECORD DRAWINGS VERIFYING ALL STRUCTURES ELEVATIONS SHALL BE COMPLETED BY A NYS LICENSED SURVEYOR.

AT CLOSE OF PROJECT, CONTRACTOR SHALL VACUUM ALL STRUCTURES CONNECTED TO AND WITHIN PROJECT AREA.

ALL WATER VALVE BOXES, SEWER CLEANOUTS, AND SEWER VENTS SHALL BE RESET TO MATCH NEW GRADES.

INSPECT AND CLEAN ALL EXISTING CATCH BASIN LATERALS PRIOR TO CONNECTING OVERFLOWS. CONNECTION SHALL BE MADE BY AN ONONDAGA COUNTY LICENSED PLUMBER AND REQUIRES A PLUMBING PERMIT THROUGH ONONDAGA COUNTY.

IF A LATERAL IS FOUND DAMAGED, CONTACT THE ENGINEER IMMEDIATELY. ONONDAGA COUNTY PLUMBING TO VERIFY WITH A PHOTO OR INSPECT. REPAIR SHALL OCCUR UNDER SEPARATE CHANGE ORDER.

IF FIRE HYDRANTS LEAKS ARE FOUND CONTACT THE ENGINEER AND SYRACUSE WATER DEPARTMENT IMMEDIATELY.

UNLESS OTHERWISE APPROVED BY THE CITY OF SYRACUSE, PEDESTRIAN AND VEHICULAR ACCESS TO WALKWAYS, BUSINESSES, AND DRIVEWAYS SHALL BE MAINTAINED AT ALL TIMES. SAFETY FENCING SHALL BE PER SECTION S-041 OF THE GENERAL SPECIFICATIONS.

PREPARED BY: BARTON & LOGUIDICE, D.P.C.
ON: FEBRUARY 24, 2017



EROSION AND SEDIMENT CONTROL

PROVIDE EROSION AND SEDIMENT CONTROL MEASURES WHERE AND WHEN APPROPRIATE AS PER THE NEW YORK STATE STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL (AUGUST 2005, OR LATEST EDITION). PROTECT EXISTING SITE FEATURES UNLESS OTHERWISE NOTED. CONSULT ENGINEER PRIOR TO INFILTRATION TRENCH INSTALLATION.

DURING CONSTRUCTION, NO WET OR FRESH CONCRETE SHALL BE ALLOWED TO ESCAPE INTO ANY WATERS, NOR SHALL WASHINGS FROM CONCRETE TRUCKS, MIXERS, OR OTHER DEVICES BE ALLOWED TO ENTER ANY WATERS OR SEWERS. CONCRETE WASHOUTS SHALL BE USED. WASHOUT AREAS SDHALL NOT BE LOCATED IN GREEN INFRASTRUCTURE AREAS.

CONTRACTOR SHALL TAKE ALL OTHER MEASURES TO POSITIVELY PRECLUDE ERODED MATERIALS FROM LEAVINGTHE SITE. CONTRACTOR TO SUBMIT EROSION CONTROL PLAN.

EROSION CONTROLS MUST BE CONSTRUCTED, STABLIZED, AND FUNCTIONAL BEFORE SITE DISTURBANCE BEGINS WITHIN THE TRIBUTARY AREAS OF THOSE CONTROLS.

AFTER FINAL SITE STABILIZATION HAS BEEN ACHIEVED, TEMPORARY EROSION CONTROLS MUST BE REMOVED. AREAS DISTURBED DURING REMOVAL OF THE CONTROLS MUST BE STABILIZED IMMEDIATELY.

UNTIL THE SITE IS STABILIZED, ALL EROSION CONTROLS MUST BE MAINTAINED PROPERLY. MAINTENANCE MUST INCLUDE INSPECTIONS OF ALL EROSION CONTROLS AFTER EACH RUNOFF EVENT AND ON A WEEKLY BASIS. ALL PREVENTATIVE AND REMEDIAL MAINTENANCE WORK, INCLUDING CLEAN OUT, REPAIR, REPLACEMENT, RE-GRADING, RE-SEEDING, RE-MULCHING AND RE-NETTING, MUST BE PERFORMED IMMEDIATELY. IF EROSION CONTROLS FAIL TO PERFORM AS EXPECTED, REPLACEMENT CONTROLS, OR MODIFICATIONS OF THOSE INSTALLED WILL BE REQUIRED.

PROTECT INFILTRATION TRENCH SUBGRADE FROM SEDIMENT DEPOSITION AND/OR COMPACTION DURING CONSTRUCTION. DO NOT ALLOW CONSTRUCTION VEHICLES TO TREAD ON THE INFILTRATION BED SUBGRADE.

CONTRACTOR SHALL FOLLOW INFILTRATION TRENCH AND DRAINAGE CONTROL REQUIREMENTS AS SPECIFIED BY ENGINEER.

SURVEY

COORDINATES AND NORTH ORIENTATION SHOWN HEREON ARE REFERENCED TO THE NEW YORK STATE PLANE COORDINATE SYSTEM, CENTRAL ZONE, TRANSVERSE MERCATOR PROJECTION, NAD 83/96 2011 EPOCH 2010.00 USING GPS PROCEDURES AND THE NEW YORK STATE DOT CORS NETWORK.

ELEVATIONS SHOWN HEREON ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 USING GPS PROCEDURES.

UNDERGROUND UTILITIES SHOWN HEREON WERE PLOTTED FROM FIELD LOCATIONS, VISIBLE AT THE TIME OF SURVEY, AND UTILITY COMPANY RECORD DRAWINGS. THE LOCATIONS OF ALL UNDERGROUND UTILITIES SHOULD BE STAKED BY THE RESPECTIVE UTILITY COMPANY PRIOR TO ANY CONSTRUCTION.

THE LOCATIONS OF STREET RIGHT-OF-WAYS ARE BASED ON A BOUNDARY SURVEY PERFORMED BY FISHER ASSOCIATES ON MARCH 29, 2016, USING INFORMATION RESEARCHED AT THE CITY OF SYRACUSE SURVEYORS OFFICE. PROPERTY LINES SHOWN HEREON ARE APPROXIMATE AND PLOTTED FOR GRAPHICAL REPRESENTATION ONLY.

THE CITY OF SYRACUSE SURVEY MONUMENTS SHALL NOT BE DISTURBED OR DESTROYED. IF THERE IS A CONFLICT OR A SURVEY MONUMENT IS WITHIN FIVE FEET OF CONSTRUCTION, THE CITY OF SYRACUSE DEPARTMENT OF ENGINEERING MUST BE CONTACTED AT (315) 448-8207 BEFORE ANY DEMOLITION OR CONSTRUCTION BEGINS.

SITE PROTECTION NOTES

THE CONTRACTOR SHALL PROVIDE AND MAINTAIN AT ALL TIMES A SAFE AND ADEQUATE INGRESS AND EGRESS TO AND FROM ALL PRIVATE AND PUBLIC PLACES OF BUSINESS.

THE CONTRACTOR SHALL COORDINATE WITH ANY AND ALL CONTRACTORS PERFORMING WORK ON THIS OR IMMEDIATELY ADJACENT TO THIS JOB SITE.

THE CONTRACTOR SHALL AT THEIR OWN EXPENSE, RESTORE LAWNS, DRIVEWAYS, CULVERTS, FENCES, GUIDERAILS, SIGNS AND OTHER PUBLIC AND PRIVATE PROPERTY DAMAGED OR REMOVED TO AT LEAST AS GOOD A CONDITION AS BEFORE BEING DISRUPTED.

EXCAVATED SPOILS NOT DESIGNATED FOR USE ON SITE SHALL BE REMOVED AT THE END OF EACH WORK DAY.

ALL BACKFILL MATERIAL STORED ON SITE SHALL BE COVERED TO PREVENT DUST AND MOISTURE INCREASE.

ALL TRUCKS ENTERING AND LEAVING THE SITE SHALL BE COVERED BY LAW TO REDUCE DUST AND ODOR. ALL MATERIALS (HAZARDOUS) SHALL BE LOCKED IN APPROPRIATE STORAGE UNITS.

CONTRACTOR SHALL MAINTAIN A CLEAN WORK SITE AT ALL TIMES. AT THE END OF THE WORK DAY ALL EQUIPMENT AND MATERIALS SHALL BE STORED IN THE DESIGNATED STAGING AREA. ALL SOIL, DUST AND MUD SHALL BE REMOVED FROM THE PROJECT AREA AND OUTSIDE THE PROJECT AREA. AT THE END OF THE DAY, TIRES OF CONSTRUCTION VEHICLES SHALL BE CLEANED OF SOIL AND MUD BEFORE BEING ALLOWED ON CITY STREETS. ANY SOIL OR MUD DEPOSITED ON CITY STREETS BY CONSTRUCTION VEHICLES SHALL BE REMOVED IMMEDIATELY.

CONTRACTOR SHALL PRESERVE AND MAINTAIN ALL EXISTING FACILITIES INCLUDING SIDEWALKS, SURVEY MONUMENTS, LIGHTING, CURBING AND PAVEMENT WITHIN THE PROJECT LIMITS.

CONTRACTOR SHALL REMOVE, OR PROPERLY CONTAINERIZE UNNECESSARY CONSTRUCTION DEBRIS AT THE END OF EACH WORK DAY.

UTILITIES

THE APPROXIMATE LOCATION OF THE UTILITIES ARE SHOWN ON THE PLANS. THE CONTRACTOR SHALL VERIFY THE TRUE LOCATION BEFORE COMMENCING WORK, AND NOTIFY THE ENGINEER OF ANY POTENTIAL CONFLICTS OR DISCREPENCIES. BEFORE ANY PIPE IS PLACED, THE CONTRACTOR SHALL UNCOVER ALL UTILITIES AT PIPE CROSSINGS TO ENABLE THE ENGINEER TO VERIFY THE PROPOSED PIPE WITH GRADES SHOWN ON THE PLANS IS NOT OBSTRUCTED BY EXISTING UTILITIES. THE COST OF THIS WORK SHALL BE INCLUDED IN THE PRICE BID FOR VARIOUS ITEMS IN THE CONTRACT.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UTILITIES ENCOUNTERED IN THIS WORK. WHERE NECESSARY, THE CONTRACTOR SHALL PROVIDE TIMBER, OR OTHER APPROVED MATERIALS AND SECURELY BRACE AND PROTECT THESE UTILITIES. THE COST OF THIS WORK SHALL BE INCLUDED IN THE PRICE BID FOR VARIOUS ITEMS IN THE CONTRACT.

WHEN UTILITIES ARE ENCOUNTERED WITHIN THE REQUIREMED STORMWATER FACILITY EXCAVATION, CONTRACTOR SHALL WRAP EXISTING UTILITIES WITH 40 MIL GEOMEMBRANE SHEETING AND SECURE WITH PVC TAPE AT 2 FT OC (MAX); OVERLAP SHEETING BY 2 FT (MIN.); EXTEND SHEETING 12 INCHES BEYOND BOTH ENDS OF STORMWATER FACILITY. OVERLAP GEOMEMBRANE SHEETING A MINIMUM OF 57*64 OF THE PIPE CIRCUMFERENCE AND ENSURE OVERLAP RUNS ALONG CROWN OF PIPE. SLEEVES AND CASINGS SHALL BE MOISTURE-FREE BEFORE SEALING.

DURING UTILITY RELOCATION WORK REQUIRED FOR THIS CONTRACT, THE CONTRACTOR SHALLCOOPERATE IN EVERY WAY WITH THE UTILITY OWNER, AND WILL SCHEDULE WORK IN SUCH A WAY AS TO COMPLY WITH SHUTDOWN TIMES AND ANY OTHER REQUIREMENTS OF THE UTILITY OWNER. NO ADDITIONAL PAYMENTS WILL BE MADE FOR ANY COST INCURRED DUE TO COMPLYING WITH OTHERS REQUIREMENTS. SUCH COSTS WILL BE INCLUDED IN PRICES BID FOR VARIOUS ITEMS IN THE CONTRACT.

THE FOLLOWING UTILITIES MAY BE ENCOUNTERED IN THE FIELD:

- ELECTRIC, NATIONAL GRID: DONALD AMBROSE - 315.440.2115 - DONALD.AMBROSE@NATIONALGRID.COM
GAS, NATIONAL GRID: KATIE AYLING - 315.428.3379 - KATHERINE.AYLING@NATIONALGRID.COM
WATER, CITY OF SYRACUSE: KIM KELCHNER - 315.473.2609 x238
SANITARY/STORM SEWER, OCDWEP: JAMIE ISGAR - 315.744.0892 - JAMIEISGAR@ONGOV.NET
TELEPHONE, VERIZON: JOHN CONSIDINE - JOHN.J.CONSIDINE@VERIZON.COM
CABLE TELEVISION, TIME WARNER: STEVEN HICKS - 315.634.6225 - STEVEN.HICKS@TWCABLE.COM
PLUMBING CONTROL, OCDWEP: JOHN WILLIAMS - 315.435.6614 - JOHNWILLIAMS@ONGOV.NET
STORM SEWER/GI, OCDWEP: ADAM WOODBURN - 315.435.5402 - ADAMWOODBURN@ONGOV.NET

THE DEGREE OF ACCURACY FOR ALL UNDERGROUND UTILITIES WITHIN THE PROJECT LIMITS IS QUALITY LEVEL C/D.

NATIONAL GRID WILL BE RETIRING THE EXISTING GAS MAIN ON THE WEST SIDE OF ACKERMAN AVENUE PRIOR TO THE CONSTRUCTION OF THIS PROJECT. A NEW GAS MAIN WILL BE INSTALLED BY NATIONAL GRID ON THE EAST SIDE OF ACKERMAN AVENUE. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING THE RETIRED GAS MAIN AS NECESSARY FOR THE COMPLETION OF THIS WORK.

EXISTING CONDITIONS LEGEND

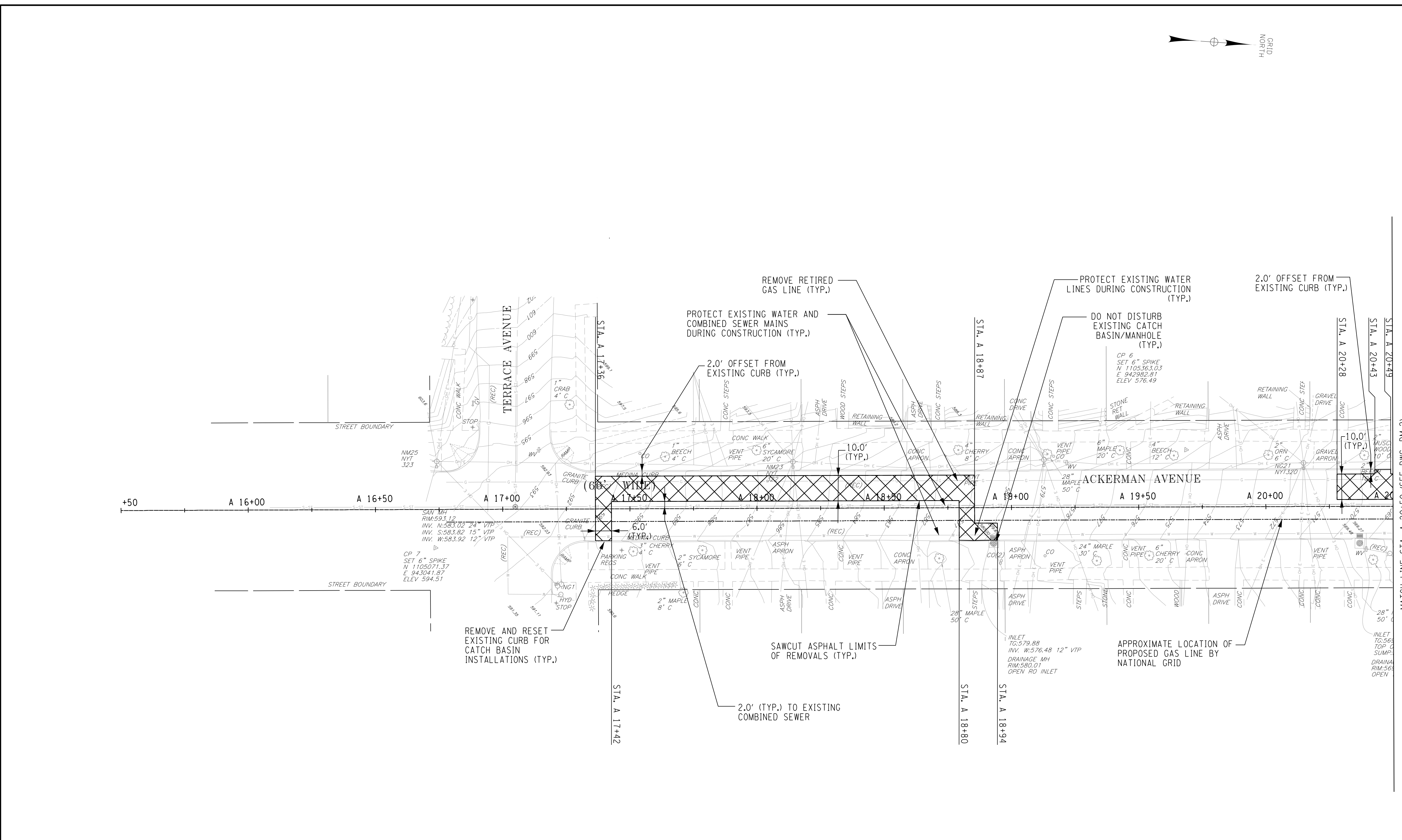
- PROPERTY LINE/LEASE PARCEL LINE
RIGHT-OF-WAY LINE
EASEMENT LINE
BUILDING LINE
FENCE LINE
EDGE OF WATER, STREAM OR DITCH
EDGE OF WOODS OR BRUSH
SANITARY SEWER LINE W/MANHOLE & C.O.
CULVERTS, STORM SEWER LINE W/MH & CATCH BASIN
WATER LINE W/HYDRANT, VALVE & VAULT
ELECTRIC LINE W/PULLBOX, METER & MANHOLE
NATURAL GAS LINE W/METER & VALVE
OVERHEAD WIRES, ELECTRIC, TELEPHONE & CABLE LINE
UNDERGROUND TELEPHONE LINE
UNDERGROUND FIBER OPTIC LINE
HEATING LINE (STEAM)
SIGNAL ARM/HEAD, SIGNAL POLE, PEDESTRIAN POLE & TRAFFIC PULL BOX
TRAFFIC CONTROL LINE
UTILITY POLE, GUY, LIGHT POLE & TOP MOUNT LIGHT
WETLAND FLAG
BORING LOCATION

Revision table with 2 revisions. Includes logos for Barton & Loguidice, D.P.C., Onondaga County, and City of Syracuse. Contains text: 'UNAUTHORIZED ALTERATION OR ADDITION TO THIS DRAWING IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW ARTICLE 145 SECTION 7209'. Includes 'GENERAL NOTES AND LEGEND', 'SCALE: AS SHOWN', 'DATE ISSUED: FEB 2017', and 'DRAWING GN-1'.

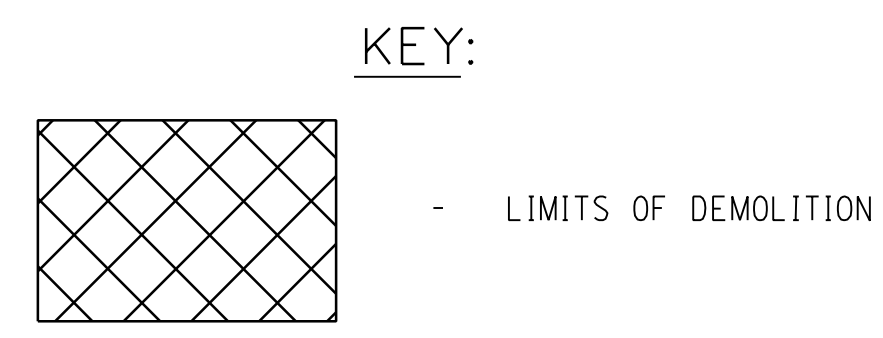
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PREPARED BY: BARTON & LOGUIDICE, D.P.C.
 ON: FEBRUARY 24, 2017



- NOTES:**
- ALL EXISTING LOCAL AND STATE TRAFFIC SIGNAGE WITHIN LIMITS OF DISTURBANCE SHALL BE REMOVED AND RESET.
 - CONCRETE WALK PAVEMENT REMOVALS SHALL BE IN AREAS INDICATED ON PLANS TO THE NEAREST CONTROL OR EXPANSION JOINT.

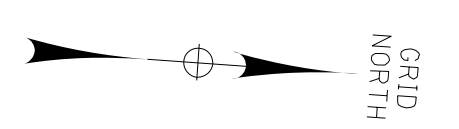
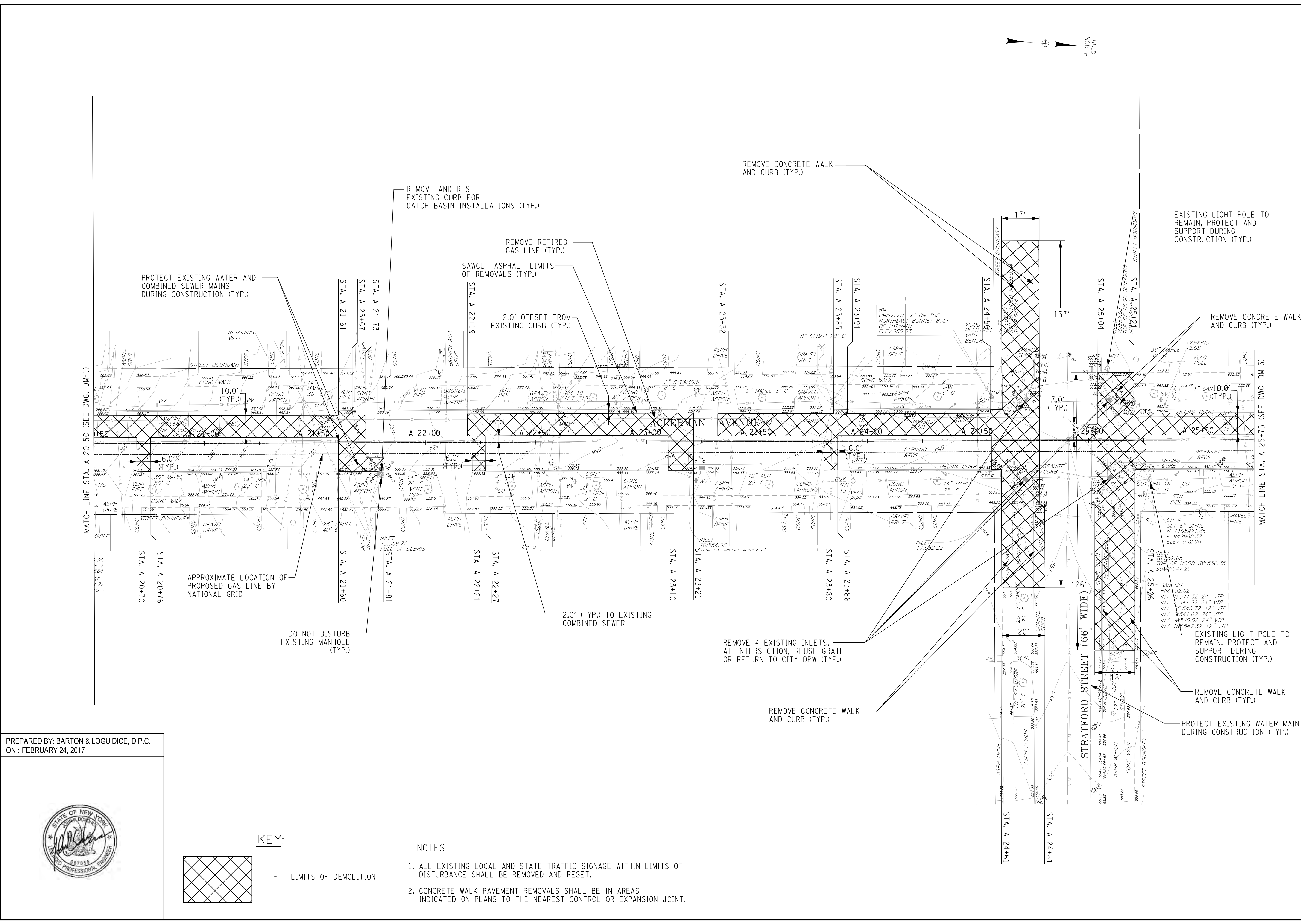
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NO. DATE BY REVISION		 ONONDAGA COUNTY
ONONDAGA COUNTY GREEN INFRASTRUCTURE IMPROVEMENTS ONONDAGA COUNTY DEPARTMENT OF WATER ENVIRONMENT PROTECTION CITY OF SYRACUSE ONONDAGA COUNTY		
ACKERMAN AVE DEMOLITION PLAN		
SCALE: AS SHOWN		
DATE ISSUED: FEB 2017		
DRAWING DM-1		

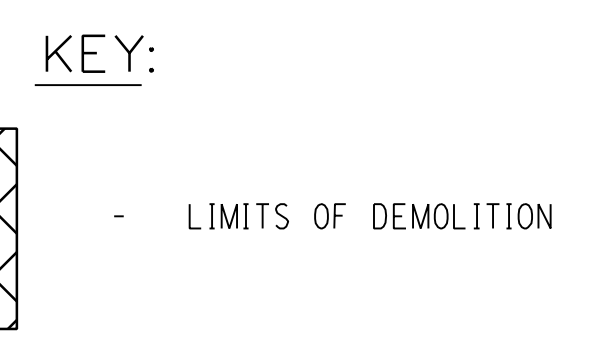
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PREPARED BY: BARTON & LOGUIDICE, D.P.C.
ON: FEBRUARY 24, 2017



- NOTES:**
1. ALL EXISTING LOCAL AND STATE TRAFFIC SIGNAGE WITHIN LIMITS OF DISTURBANCE SHALL BE REMOVED AND RESET.
 2. CONCRETE WALK PAVEMENT REMOVALS SHALL BE IN AREAS INDICATED ON PLANS TO THE NEAREST CONTROL OR EXPANSION JOINT.

NO.	DATE	BY	REVISION



Barton & Loguidice, D.P.C.
UNAUTHORIZED ALTERATION OR ADDITION TO THIS DRAWING IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW, ARTICLE 145 SECTION 7209

ONONDAGA COUNTY
GREEN INFRASTRUCTURE IMPROVEMENTS
ONONDAGA COUNTY DEPARTMENT OF WATER ENVIRONMENT PROTECTION
CITY OF SYRACUSE
ONONDAGA COUNTY


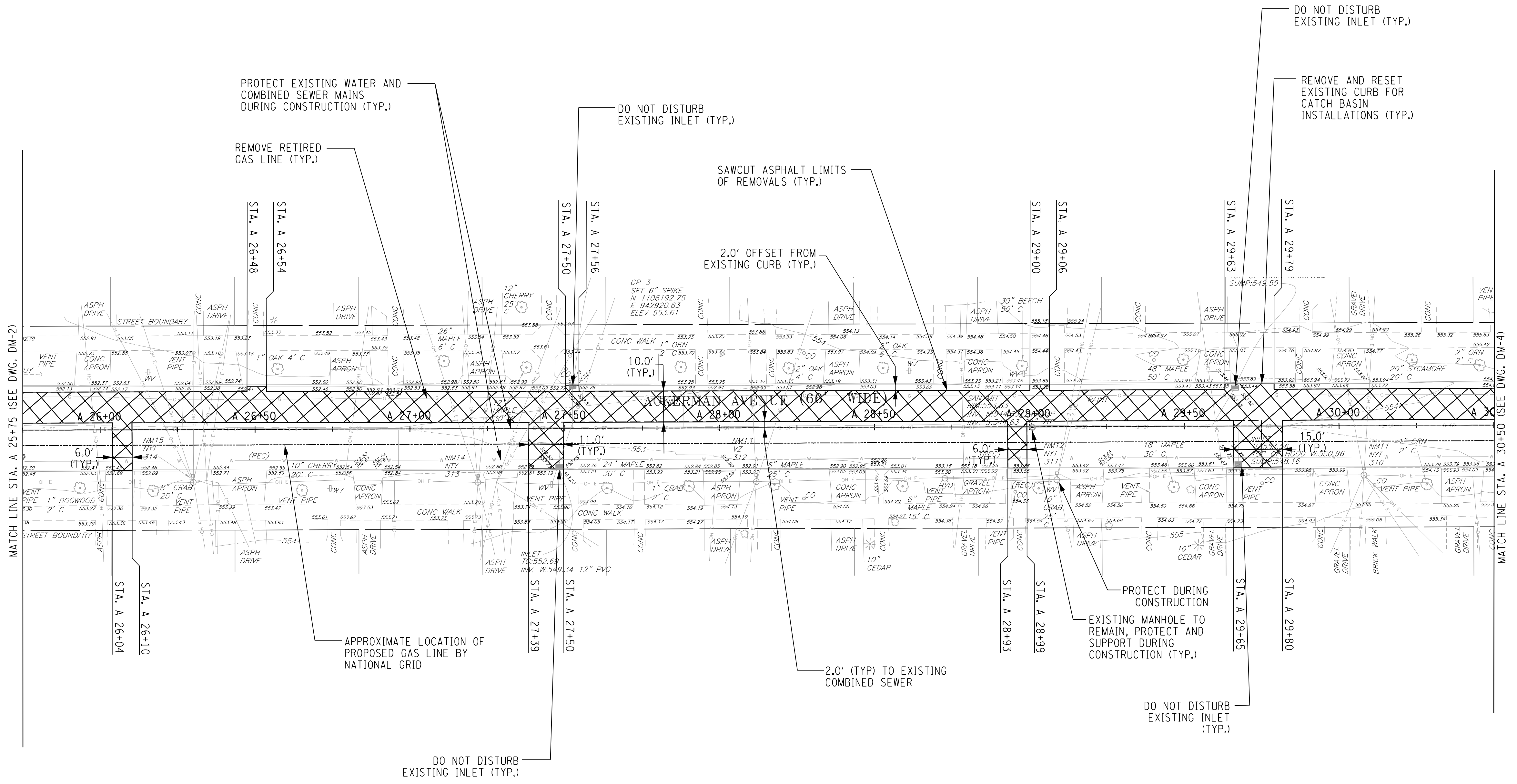
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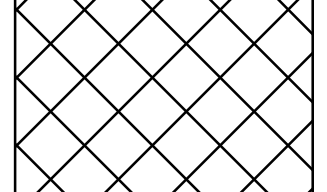
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IN CHARGE OF JPD DESIGNED BY KAW CHECKED BY MCB DRAFTED BY PJZ CHECKED BY KAW

PREPARED BY: BARTON & LOGUIDICE, D.P.C.
 ON: FEBRUARY 24, 2017

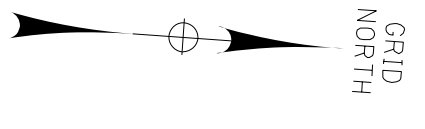



KEY:



LIMITS OF DEMOLITION

- NOTES:**
- ALL EXISTING LOCAL AND STATE TRAFFIC SIGNAGE WITHIN LIMITS OF DISTURBANCE SHALL BE REMOVED AND RESET.
 - CONCRETE WALK PAVEMENT REMOVALS SHALL BE IN AREAS INDICATED ON PLANS TO THE NEAREST CONTROL OR EXPANSION JOINT.



NO.	DATE	BY	REVISION
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Barton & Loguidice, D.P.C.

ONONDAGA COUNTY
 GREEN INFRASTRUCTURE IMPROVEMENTS
 ONONDAGA COUNTY DEPARTMENT OF
 WATER ENVIRONMENT PROTECTION
 CITY OF SYRACUSE
 ONONDAGA COUNTY

UNAUTHORIZED ALTERATION OR ADDITION TO THIS DRAWING IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW, ARTICLE 145 SECTION 7209

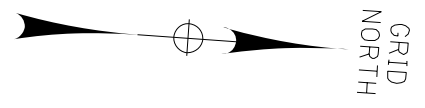
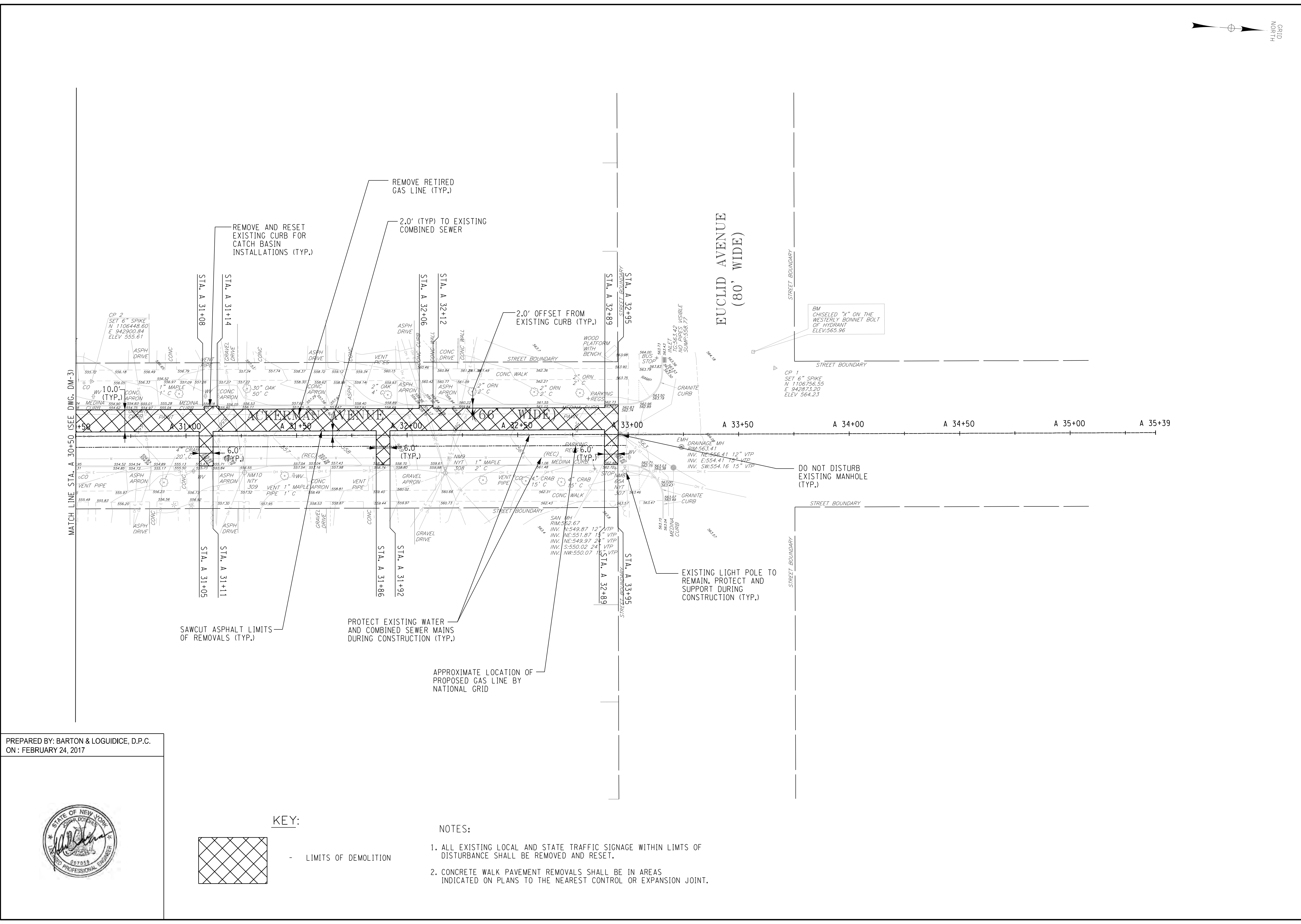
ACKERMAN AVE
 DEMOLITION PLAN

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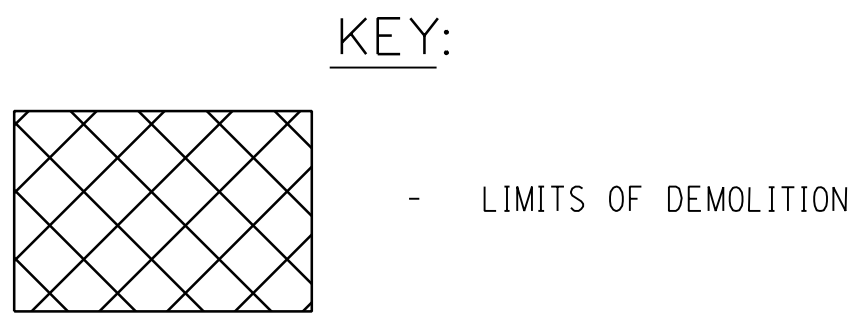
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IN CHARGE OF JPD DESIGNED BY KAW CHECKED BY MCB DRAFTED BY PJZ CHECKED BY KAW



PREPARED BY: BARTON & LOGUIDICE, D.P.C.
 ON: FEBRUARY 24, 2017



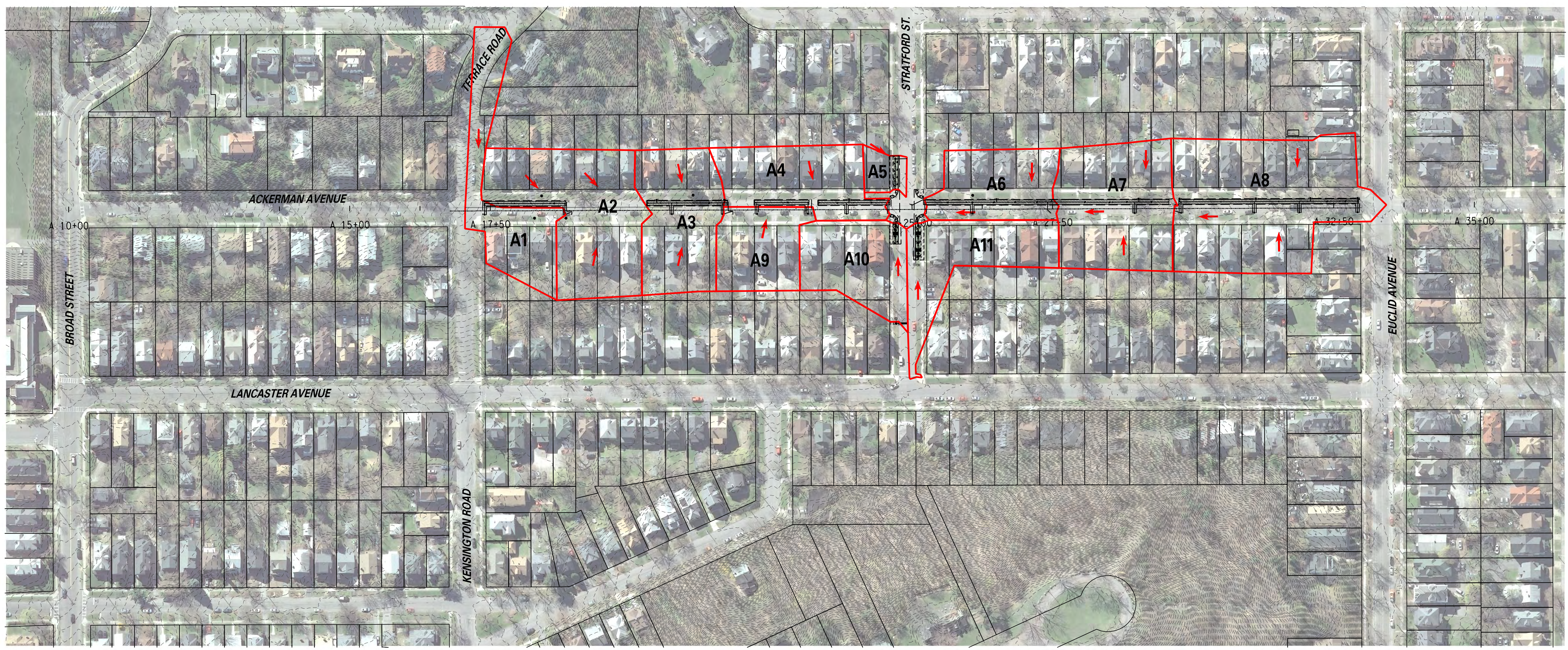
- NOTES:
1. ALL EXISTING LOCAL AND STATE TRAFFIC SIGNAGE WITHIN LIMITS OF DISTURBANCE SHALL BE REMOVED AND RESET.
 2. CONCRETE WALK PAVEMENT REMOVALS SHALL BE IN AREAS INDICATED ON PLANS TO THE NEAREST CONTROL OR EXPANSION JOINT.

NO. DATE BY REVISION		 ONONDAGA COUNTY
		UNAUTHORIZED ALTERATION OR ADDITION TO THIS DRAWING IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW, ARTICLE 145 SECTION 7209
ONONDAGA COUNTY GREEN INFRASTRUCTURE IMPROVEMENTS	ONONDAGA COUNTY DEPARTMENT OF WATER ENVIRONMENT PROTECTION	
ACKERMAN AVE DEMOLITION PLAN		
SCALE: AS SHOWN		
DATE ISSUED: FEB 2017		
DRAWING DM-4		

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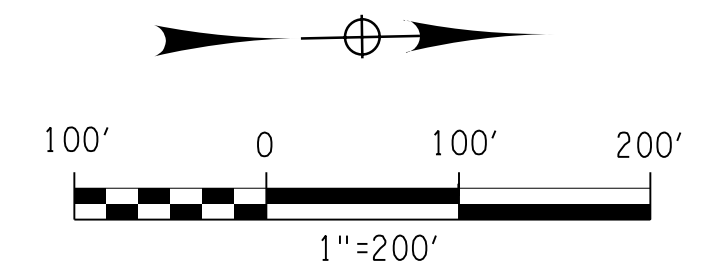


PREPARED BY: BARTON & LOGUIDICE, D.P.C.
 ON: FEBRUARY 24, 2017



- LEGEND**
- DRAINAGE BASIN AREA
 - A-#** ACKERMAN AVENUE DRAINAGE BASIN NUMBER
 - ➔ DIRECTION OF SURFACE STORM WATER FLOW

DRAINAGE BASIN AREA	
A1	0.74 AC.
A2	1.21 AC.
A3	0.81 AC.
A4	0.73 AC.
A5	0.18 AC.
A6	0.61 AC.
A7	1.05 AC.
A8	1.69 AC.
A9	0.52 AC.
A10	0.64 AC.
A11	0.71 AC.



NO.	DATE	BY	REVISION
7			
25			



Barton & Loguidice, D.P.C.
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ONONDAGA COUNTY
 GREEN INFRASTRUCTURE IMPROVEMENTS
 ONONDAGA COUNTY DEPARTMENT OF
 WATER ENVIRONMENT PROTECTION
 CITY OF SYRACUSE
 ONONDAGA COUNTY

ACKERMAN AVENUE
 DRAINAGE AREAS
 SCALE: AS SHOWN
 DATE ISSUED: FEB 2017
 DRAWING
 DA-1

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IN CHARGE OF JPD
 DESIGNED BY KAW
 CHECKED BY MCB
 DRAFTED BY PJZ
 CHECKED BY KAW

ACKERMAN DRAINAGE STRUCTURES (DOME OUTLETS & CATCH BASINS)									
NO.	STATION	SIDE	OFFSET	SIZE/ TYPE	RIM ELEV.	SUMP ELEV.	INV. ELEV.	PIPE INSTALLATION DESCRIPTION	DETAIL NO.
DI A1-1	A 17+40	RT	12'	A	590.50	583.70	W = 585.70	W: INSTALL 19' OF SOLID HDPE PIPE AT 10.0% SLOPE, USE SOLID HDPE TEE TO TIE INTO INFILTRATION TRENCH UNDERDRAIN AT ELEV 583.80.	DR-04
DI A1-2	A 18+82	RT	12'	A	580.53	574.96	N = 576.96 W = 577.06	N (OVERFLOW CONNECTION): INSTALL 10' OF SOLID HDPE PIPE TO EXISTING LATERAL W/ FILTER INSERT & TRAP. CONTRACTOR TO VERIFY LATERAL DEPTH AND LOCATION. TOP OF WEIR AT ELEV 578.52, LOW FLOW ORIFICE AT ELEV 576.96. INSTALL ANTI-SEEP COLLAR WHERE PIPE LEAVES INFILTRATION TRENCH. W: INSTALL 19' OF SOLID HDPE PIPE AT 0.5% SLOPE, USE SOLID HDPE TEE TO TIE INTO INFILTRATION TRENCH UNDERDRAIN AT ELEV 576.97.	DR-04
DI A1-3	A 20+46	LT	13'	A	569.40	561.79	E = 563.79	E: INSTALL 5' OF SOLID HDPE PIPE AT 10.0% SLOPE, USE SOLID HDPE TEE TO TIE INTO INFILTRATION TRENCH UNDERDRAIN AT ELEV 563.29.	DR-04
DI A2-1	A 20+73	RT	12'	A	566.82	561.11	W = 563.11	W: INSTALL 19' OF SOLID HDPE PIPE AT 10.0% SLOPE, USE SOLID HDPE TEE TO TIE INTO INFILTRATION TRENCH UNDERDRAIN AT ELEV 561.21.	DR-04
DI A2-2	A 21+64	LT	14'	A	561.21	554.50	E = 556.50	E: INSTALL 5' OF SOLID HDPE PIPE AT 10.0% SLOPE, USE SOLID HDPE TEE TO TIE INTO INFILTRATION TRENCH UNDERDRAIN AT ELEV 556.00.	DR-04
DI A2-3	A 21+70	RT	12'	A	560.37	554.22	N = 556.22 W = 556.47	N (OVERFLOW CONNECTION): INSTALL 16' OF SOLID HDPE PIPE TO EXISTING LATERAL W/ FILTER INSERT & TRAP. CONTRACTOR TO VERIFY LATERAL DEPTH AND LOCATION. TOP OF WEIR AT ELEV 558.29, LOW FLOW ORIFICE AT ELEV 556.22. INSTALL ANTI-SEEP COLLAR WHERE PIPE LEAVES INFILTRATION TRENCH. W: INSTALL 19' OF SOLID HDPE PIPE AT 2.5% SLOPE, USE SOLID HDPE TEE TO TIE INTO INFILTRATION TRENCH UNDERDRAIN AT ELEV 556.00.	DR-04
DI A2-4	A 22+24	RT	12'	A	557.52	549.50	W = 551.50	W: INSTALL 19' OF SOLID HDPE PIPE AT 10.0% SLOPE, USE SOLID HDPE TEE TO TIE INTO INFILTRATION TRENCH UNDERDRAIN AT ELEV 549.60.	DR-04
DI A2-5	A 23+15	RT	12'	A	554.65	548.31	N = 550.31 W = 550.56	N (OVERFLOW CONNECTION): INSTALL 13' OF SOLID HDPE PIPE TO STORM SEWER W/ FILTER INSERT & TRAP. CONTRACTOR TO VERIFY LATERAL DEPTH AND LOCATION. TOP OF WEIR AT ELEV 552.44, LOW FLOW ORIFICE AT ELEV 550.31. INSTALL ANTI-SEEP COLLAR WHERE PIPE LEAVES INFILTRATION TRENCH. W: INSTALL 19' OF SOLID HDPE PIPE AT 5.0% SLOPE, USE SOLID HDPE TEE TO TIE INTO INFILTRATION TRENCH UNDERDRAIN AT ELEV 549.60.	DR-04
DI A2-6	A 23+83	RT	12'	A	553.48	547.13	W = 559.13	W: INSTALL 19' OF SOLID HDPE PIPE AT 10.0% SLOPE, USE SOLID HDPE TEE TO TIE INTO INFILTRATION TRENCH UNDERDRAIN AT ELEV 547.23.	DR-04
DI A2-7	A 23+88	LT	13'	A	553.37	545.73	E = 547.73	E: INSTALL 5' OF SOLID HDPE PIPE AT 10.0% SLOPE, USE SOLID HDPE TEE TO TIE INTO INFILTRATION TRENCH UNDERDRAIN AT ELEV 547.23.	DR-04
DI A2-8	A 24+59	RT	12'	A	552.43	546.18	W = 548.18	W: INSTALL 19' OF SOLID HDPE PIPE AT 5.0% SLOPE, USE SOLID HDPE TEE TO TIE INTO INFILTRATION TRENCH UNDERDRAIN AT ELEV 547.23.	DR-04
DI A2-9	A 24+60	LT	14'	A	552.30	545.58	N = 547.58 E = 547.83	N (OVERFLOW CONNECTION): INSTALL 15' OF SOLID HDPE PIPE TO EXISTING STORM SEWER W/FILTER INSERT & TRAP. CONTRACTOR TO VERIFY LATERAL DEPTH AND LOCATION. TOP OF WEIR AT ELEV 550.01, LOW FLOW ORIFICE AT ELEV 547.23. E: INSTALL 6' OF SOLID HDPE PIPE AT 10.0% SLOPE, USE SOLID HDPE TEE TO TIE INTO INFILTRATION TRENCH UNDERDRAIN AT ELEV 547.23.	DR-04
DO A2-1	A 24+70	RT	53'	24"	551.72	546.02	E = 547.62 W = 547.62	W: TOP OF WEIR AT ELEV 548.66, LOW FLOW ORIFICE AT ELEV 547.62.	DR-03
DO A2-2	A 24+70	RT	35'	24"	551.33	545.48	E = 546.98 W = 547.08	W (OVERFLOW CONNECTION): INSTALL 20' OF SOLID HDPE PIPE TO EXISTING LATERAL WITH FILTER INSERT AND TRAP. CONTRACTOR TO VERIFY DEPTH AND LOCATION. TOP OF WEIR AT ELEV 547.92, LOW FLOW ORIFICE AT ELEV 546.88. INSTALL ANTI-SEEP COLLAR WHERE PIPE LEAVES INFILTRATION TRENCH.	DR-03

LEGEND		
DI AX-N	DI	DRAINAGE INLET (CATCH BASIN)
	X	PLAN DRAWING NUMBER
DO AX-N	N	STRUCTURE NUMBER
	DO	DOME OUTLET
	X	PLAN DRAWING NUMBER
	N	STRUCTURE NUMBER

PREPARED BY: BARTON & LOGUIDICE, D.P.C.
 ON: FEBRUARY 24, 2017



- NOTES:
- 1) ALL STRUCTURES WITH A DIRECT CONNECTION TO THE COMBINED SEWER MUST HAVE TRAPS.
 - 2) ALL CATCH BASINS AND PVC RISER STRUCTURES SHALL HAVE FILTER INSERTS INSTALLED (P.I. 1.19A OR P.I. 1.19D).
 - 3) ORIFICE DIAMETER FOR ALL STRUCTURES IS 1 INCH. ALL ORIFICES ARE TO BE PROVIDED WITH REMOVABLE PLUGS.
 - 4) ALL PIPE RUNS (PERFORATED OR SOLID) ARE 8" DIAMETER HDPE UNLESS SHOWN OTHERWISE.

ACKERMAN DRAINAGE STRUCTURES (DOME OUTLETS & CATCH BASINS)									
NO.	STATION	SIDE	OFFSET	SIZE/ TYPE	RIM ELEV.	SUMP ELEV.	INV. ELEV.	PIPE INSTALLATION DESCRIPTION	DETAIL NO.
DO A2-3	A 24+70	LT	92'	24"	550.89	544.87	E = 546.71 N = 546.61	N (OVERFLOW CONNECTION): INSTALL 20' OF SOLID HDPE PIPE TO COMBINED SEWER WITH FILTER INSERT AND TRAP. CONTRACTOR TO VERIFY DEPTH AND LOCATION. TOP OF WEIR AT ELEV 547.22. LOW FLOW ORIFICE AT ELEV 546.61. INSTALL ANTI-SEEP COLLAR WHERE PIPE LEAVES INFILTRATION TRENCH	DR-03
DO A2-4	A 25+11	RT	83'	24"	551.70	545.87	E = 547.70 W = 547.70	W: TOP OF WEIR AT ELEV. 548.74, LOW FLOW ORIFICE AT ELEV 547.70.	DR-03
DO A2-5	A 25+11	RT	54'	24"	550.95	545.17	E = 547.00 W = 547.00	W: TOP OF WEIR AT ELEV. 548.04, LOW FLOW ORIFICE AT ELEV 547.00.	DR-03
DO A2-6	A 25+11	RT	31'	24"	550.23	544.30	E = 546.23 W = 546.13	W (OVERFLOW CONNECTION): INSTALL 20' OF SOLID HDPE PIPE TO EXISTING LATERAL. CONTRACTOR TO VERIFY DEPTH AND LOCATION. TOP OF WEIR AT ELEV 546.74. LOW FLOW ORIFICE AT ELEV 546.13. INSTALL ANTI-SEEP COLLAR WHERE PIPE LEAVES INFILTRATION TRENCH.	DR-03
DI A2-10	A 25+23	RT	12'	A	552.03	545.72	W = 547.68	W: INSTALL 19' OF SOLID HDPE PIPE AT 0.5% SLOPE, USE SOLID HDPE TEE TO TIE INTO INFILTRATION TRENCH UNDERDRAIN AT ELEV 547.59.	DR-04
DI A2-11	A 25+23	LT	13'	A	552.03	545.84	E = 548.09 S = 547.84	S (OVERFLOW CONNECTION): INSTALL 15' OF SOLID HDPE PIPE TO EXISTING LATERAL W/FILTER INSERT & TRAP. CONTRACTOR TO VERIFY LATERAL DEPTH AND LOCATION. TOP OF WEIR AT ELEV. 549.85, LOW FLOW ORIFICE AT ELEV 547.84. E: INSTALL 5' OF SOLID HDPE PIPE AT 10.0% SLOPE, USE SOLID HDPE TEE TO TIE INTO INFILTRATION TRENCH UNDERDRAIN AT ELEV 547.59. INSTALL ANTI-SEEP COLLAR WHERE PIPE LEAVES INFILTRATION TRENCH.	DR-04
DI A3-1	A 26+07	LT	13'	A	552.45	546.09	E = 548.09	E: INSTALL 5' OF SOLID HDPE PIPE AT 10.0% SLOPE, USE SOLID HDPE TEE TO TIE INTO INFILTRATION TRENCH UNDERDRAIN AT ELEV 547.59.	DR-04
DI A3-2	A 26+52	RT	12'	A	552.43	547.49	W = 549.49	W: INSTALL 19' OF SOLID HDPE PIPE AT 8.0% SLOPE, USE SOLID HDPE TEE TO TIE INTO INFILTRATION TRENCH UNDERDRAIN AT ELEV 547.59.	DR-04
EXIST.	A 27+48	RT	12'	-	552.69	-	S = 549.24	S: INSTALL 23' OF SOLID HDPE PIPE AT 7.0% SLOPE, USE SOLID HDPE TEE TO TIE INTO INFILTRATION TRENCH UNDERDRAIN AT ELEV 547.59.	-
EXIST.	A 27+52	LT	13'	-	557.55	549.24	S = 548.39	S: INSTALL 8' OF SOLID HDPE PIPE AT 10.0% SLOPE, USE SOLID HDPE TEE TO TIE INTO INFILTRATION TRENCH UNDERDRAIN AT ELEV 547.59.	-
DI A3-3	A 29+03	LT	13'	A	553.27	546.09	E = 548.09	E: INSTALL 5' OF SOLID HDPE PIPE AT 10.0% SLOPE, USE SOLID HDPE TEE TO TIE INTO INFILTRATION TRENCH UNDERDRAIN AT ELEV 547.59.	DR-04
DI A3-4	A 29+09	RT	13'	A	553.26	547.49	W = 549.49	W: INSTALL 19' OF SOLID HDPE PIPE AT 10.0% SLOPE, USE SOLID HDPE TEE TO TIE INTO INFILTRATION TRENCH UNDERDRAIN AT ELEV 547.59.	DR-04
DI A3-5	A 29+76	RT	13'	A	553.59	548.31	W = 550.56	W: INSTALL 19' OF SOLID HDPE PIPE AT 4.5% SLOPE, USE SOLID HDPE TEE TO TIE INTO INFILTRATION TRENCH UNDERDRAIN AT ELEV 549.63.	DR-04
DI A3-6	A 29+76	LT	13'	A	553.56	547.88	S = 549.88 E = 550.13	S (OVERFLOW CONNECTION): INSTALL 12' OF SOLID HDPE PIPE TO EXISTING LATERAL W/ FILTER INSERT & TRAP. CONTRACTOR TO VERIFY LATERAL DEPTH AND LOCATION. TOP OF WEIR AT ELEV 552.71, LOW FLOW ORIFICE AT ELEV 549.88. E: INSTALL 5' OF SOLID HDPE PIPE AT 10.0% SLOPE, USE SOLID HDPE TEE TO TIE INTO INFILTRATION TRENCH UNDERDRAIN AT ELEV 549.63.	DR-04
DI A4-1	A 31+12	LT	13'	A	555.75	548.13	E = 550.13	E: INSTALL 5' OF SOLID HDPE PIPE AT 10.0% SLOPE, USE SOLID HDPE TEE TO TIE INTO INFILTRATION TRENCH UNDERDRAIN AT ELEV 549.63.	DR-04
DI A4-2	A 31+09	RT	13'	A	555.38	549.53	W = 551.53	W: INSTALL 19' OF SOLID HDPE PIPE AT 10.0% SLOPE, USE SOLID HDPE TEE TO TIE INTO INFILTRATION TRENCH UNDERDRAIN AT ELEV 549.63.	DR-04
DI A4-3	A 32+12	RT	13'	A	559.22	552.25	W = 554.25	W: INSTALL 5' OF SOLID HDPE PIPE AT 10.0% SLOPE, USE SOLID HDPE TEE TO TIE INTO INFILTRATION TRENCH UNDERDRAIN AT ELEV 553.75.	DR-04
DI A4-4	A 31+89	LT	13'	A	558.42	551.64	E = 553.64	E: INSTALL 19' OF SOLID HDPE PIPE AT 10.0% SLOPE, USE SOLID HDPE TEE TO TIE INTO INFILTRATION TRENCH UNDERDRAIN AT ELEV 551.74.	DR-04
DI A4-5	A 32+92	RT	13'	A	562.41	555.72	W = 557.72	W: INSTALL 19' OF SOLID HDPE PIPE AT 10.0% SLOPE, USE SOLID HDPE TEE TO TIE INTO INFILTRATION TRENCH UNDERDRAIN AT ELEV 555.82.	DR-04
DI A4-6	A 32+93	LT	13'	A	562.44	554.32	E = 556.32	E: INSTALL 5' OF SOLID HDPE PIPE AT 10.0% SLOPE, USE SOLID HDPE TEE TO TIE INTO INFILTRATION TRENCH UNDERDRAIN AT ELEV 555.82.	DR-04



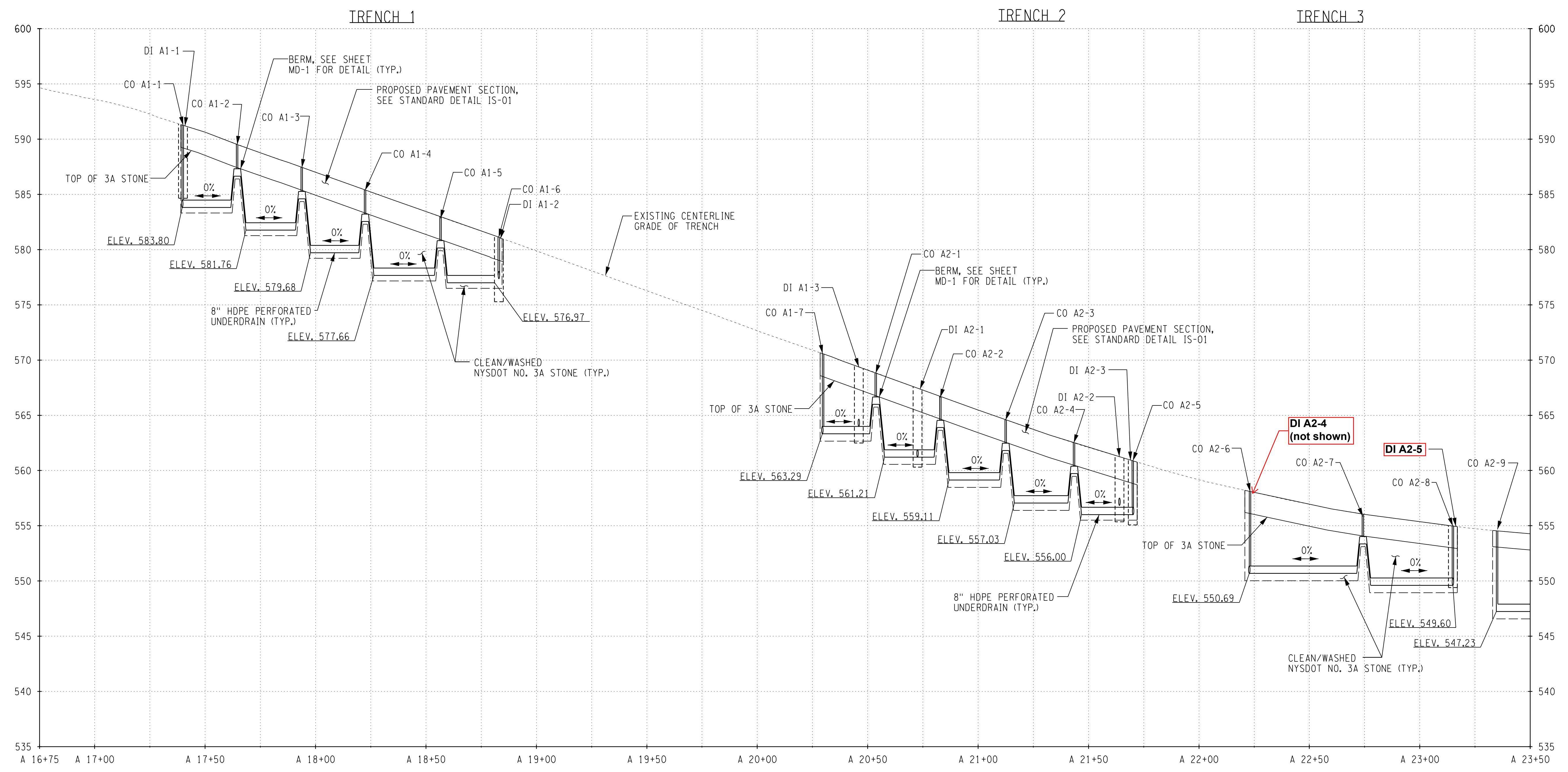
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ONONDAGA COUNTY
 GREEN INFRASTRUCTURE IMPROVEMENTS
 ONONDAGA COUNTY DEPARTMENT OF
 WATER ENVIRONMENT PROTECTION
 CITY OF SYRACUSE
 ONONDAGA COUNTY

DRAINAGE
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 DATE ISSUED: FEB 2017
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 DRT-1

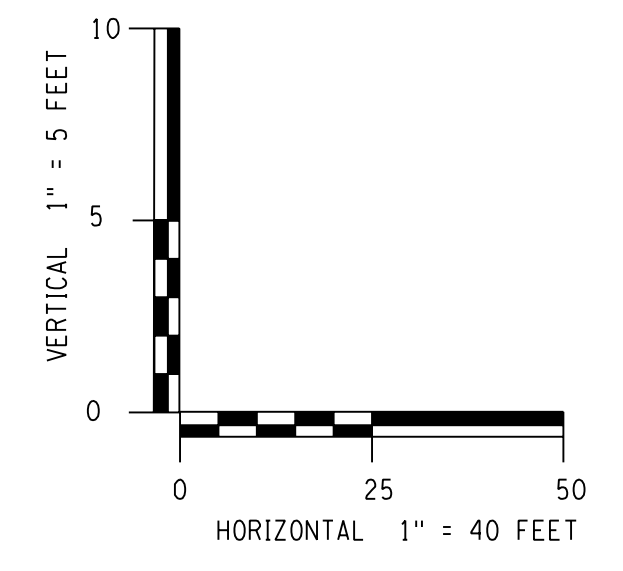
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IN CHARGE OF JPD
 DESIGNED BY KAW
 CHECKED BY MCB
 DRAFTED BY PJZ
 CHECKED BY KAW



INFILTRATION TRENCH PROFILE
 STA. A 16+75.00 TO STA. A 23+50.00; RT.

PREPARED BY: BARTON & LOGUIDICE, D.P.C.
 ON: FEBRUARY 24, 2017



Trench	Station	Station	Upstream Grade	Downstream Grade	Trench Bottom	Max Excavation (FT)	Top of Stone at Low End	Berm Elevation	Pipe Elev.
1	A 17+39	A 17+64	591.30	589.51	583.30	8.00	587.55	586.40	583.80
	A 17+64	A 17+93	589.51	587.45	581.26	8.00	585.49	584.35	581.76
	A 17+93	A 18+22	587.45	585.40	579.18	8.00	583.44	582.29	579.68
	A 18+22	A 18+56	585.40	582.96	577.16	8.00	581.00	579.90	577.66
	A 18+56	A 18+84	582.96	580.98	576.47	8.00	579.02	-	576.97
2	A 20+28	A 20+53	570.65	568.84	562.79	8.00	566.88	565.73	563.29
	A 20+53	A 20+82	568.84	566.71	560.71	8.00	564.75	563.62	561.21
	A 20+82	A 21+12	566.71	564.60	558.61	8.00	562.64	561.55	559.11
	A 21+12	A 21+43	564.60	562.53	556.53	8.00	560.57	559.45	557.03
	A 21+43	A 21+72	562.53	560.75	555.50	8.00	558.79	-	556.00
3	A 22+20	A 22+74	558.20	555.98	550.19	8.00	554.02	553.10	550.69
	A 22+74	A 23+17	555.98	554.92	549.10	7.00	552.96	-	549.60

NO. DATE BY REVISION

ONONDAGA COUNTY
 GREEN INFRASTRUCTURE IMPROVEMENTS
 ONONDAGA COUNTY DEPARTMENT OF WATER ENVIRONMENT PROTECTION
 CITY OF SYRACUSE
 ONONDAGA COUNTY

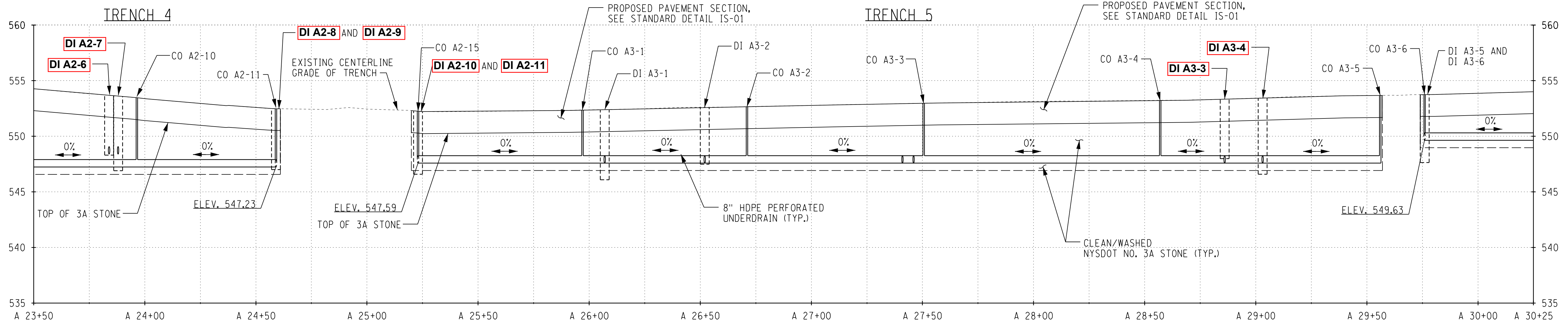
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 SCALE: AS SHOWN
 DATE ISSUED: FEB 2017
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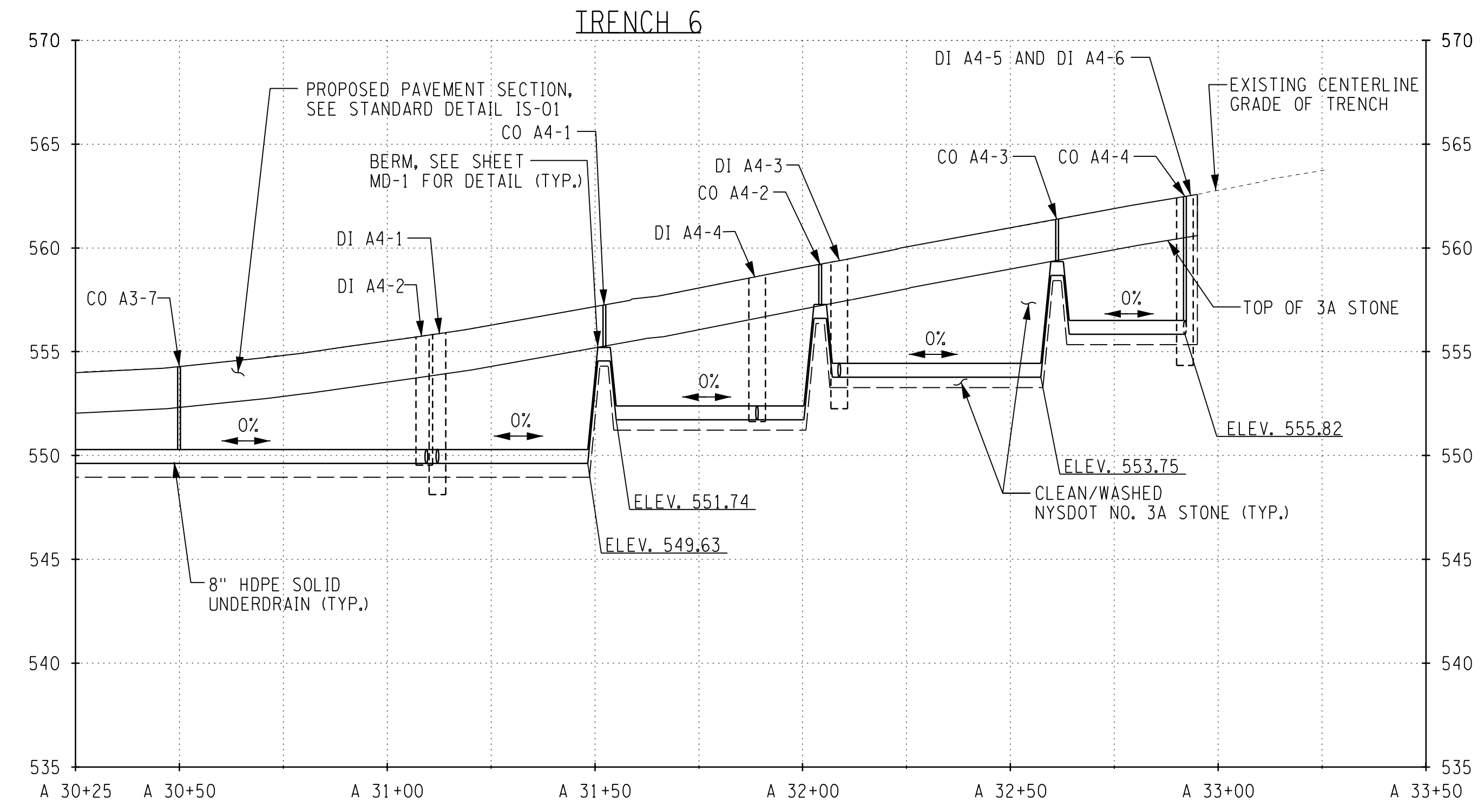
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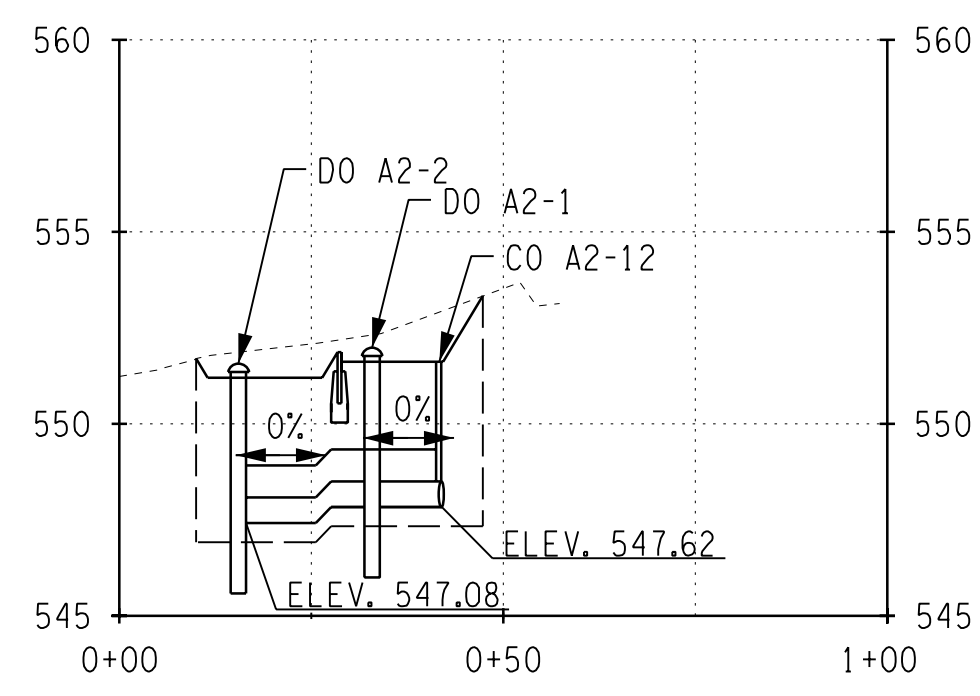
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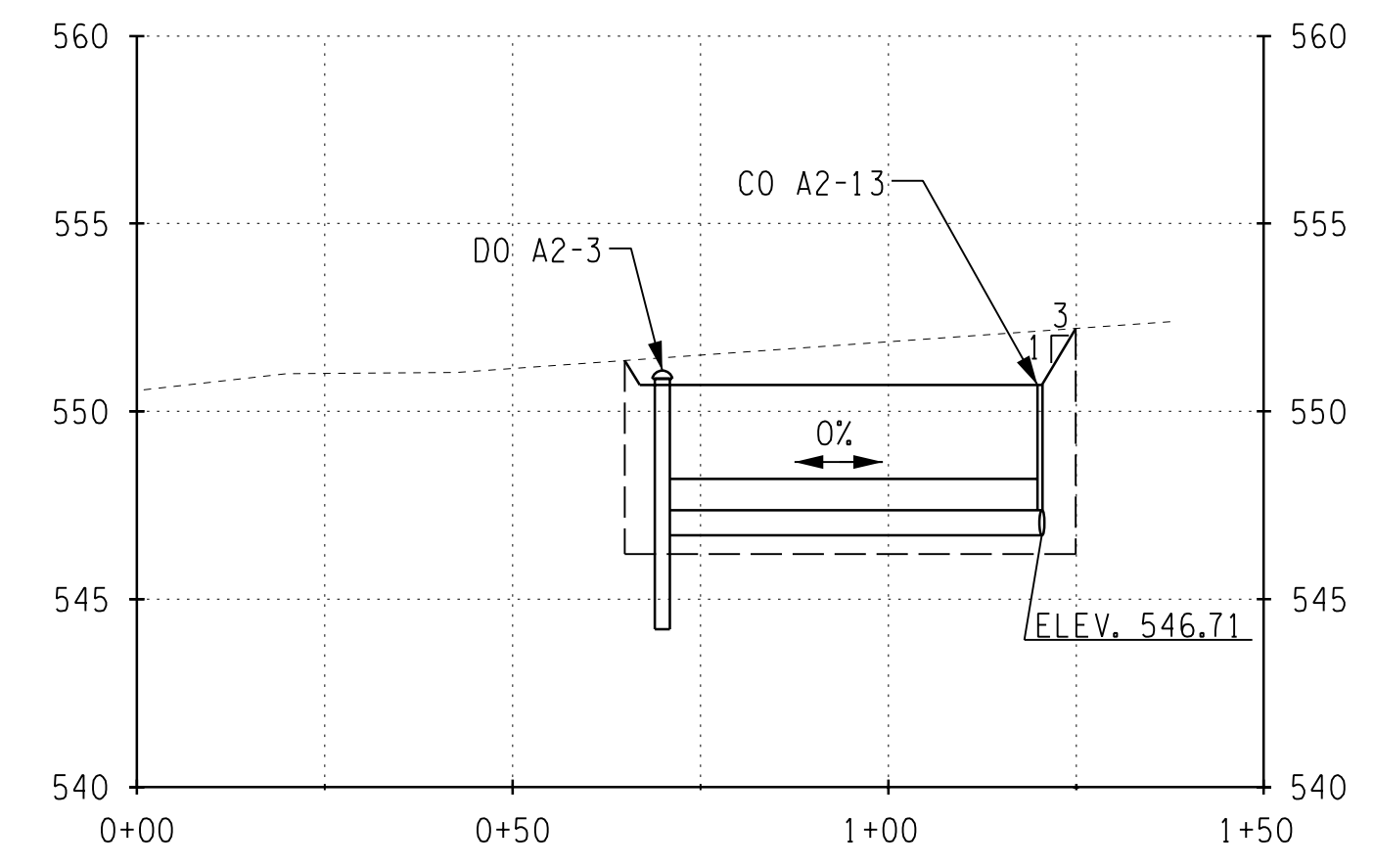
INFILTRATION TRENCH PROFILE
STA. A 23+50.00 TO STA. A 30+25.00; RT.



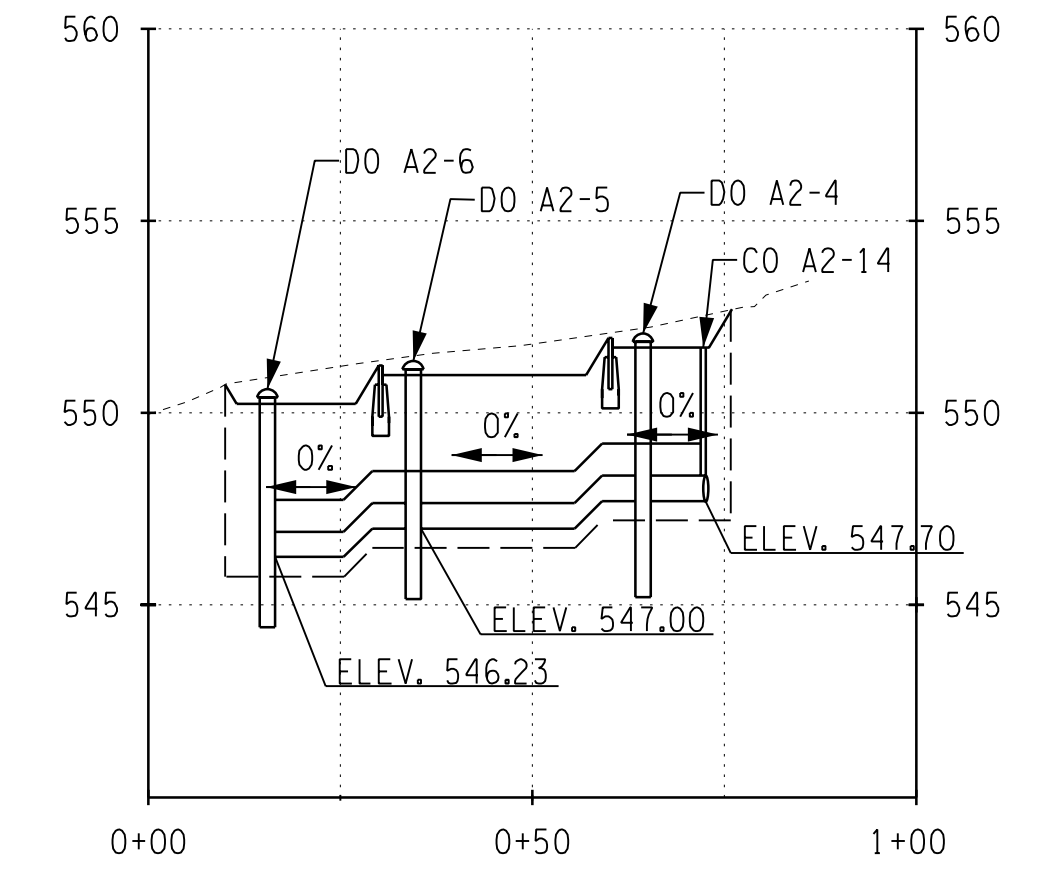
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STA. A 30+25.00 TO STA. A 33+50.00; RT.



VEGETATED INFILTRATION TRENCH ON STRAFFORD AVE
STA. A 24+70 RT.
NOTE: DETAIL FOR THIS PROFILE IS ON SHEETS MD-1 & MD-2.

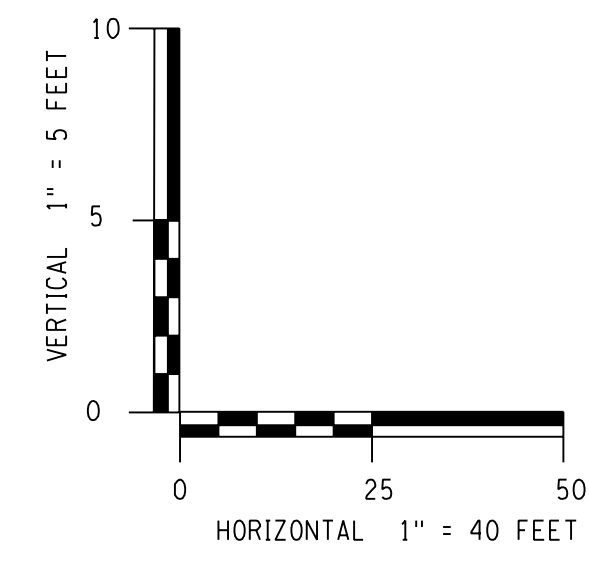


VEGETATED INFILTRATION TRENCH ON STRAFFORD AVE
STA. A 24+70 LT.
NOTE: DETAILS FOR THIS PROFILE ARE ON SHEETS MD-1 & MD-2.



VEGETATED INFILTRATION TRENCH ON STRAFFORD AVE
STA. A 25+11 RT.
NOTE: DETAILS FOR THIS PROFILE ARE ON SHEETS MD-1 & MD-2.

PREPARED BY: BARTON & LOGUIDICE, D.P.C.
ON: FEBRUARY 24, 2017



Trench	Station	Station	Upstream Grade	Downstream Grade	Trench Bottom	Max Excavation (FT)	Top of Stone at Low End	Berm Elevation	Pipe Elev.
4	A 23+33	A 24+57	554.57	552.47	546.73	7.84	550.51	-	547.23
5	A 25+20	A 29+57	553.68	552.31	547.09	6.59	550.35	-	547.59
6	A 29+74	A 31+52	557.26	553.73	549.13	8.00	551.77	-	549.63
	A 31+52	A 32+04	559.21	557.26	551.24	8.00	555.30	554.30	551.74
	A 32+04	A 32+61	561.38	559.21	553.25	8.00	557.25	556.36	553.75
	A 32+61	A 32+95	562.57	561.38	555.32	8.00	559.42	558.42	555.82



Barton & Loguidice, D.P.C.

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ONONDAGA COUNTY GREEN INFRASTRUCTURE IMPROVEMENTS
ONONDAGA COUNTY DEPARTMENT OF WATER ENVIRONMENT PROTECTION
CITY OF SYRACUSE
ONONDAGA COUNTY

ACKERMAN AVE INFILTRATION TRENCH PROFILES
SCALE: AS SHOWN
DATE ISSUED: FEB 2017
DRAWING PR-2

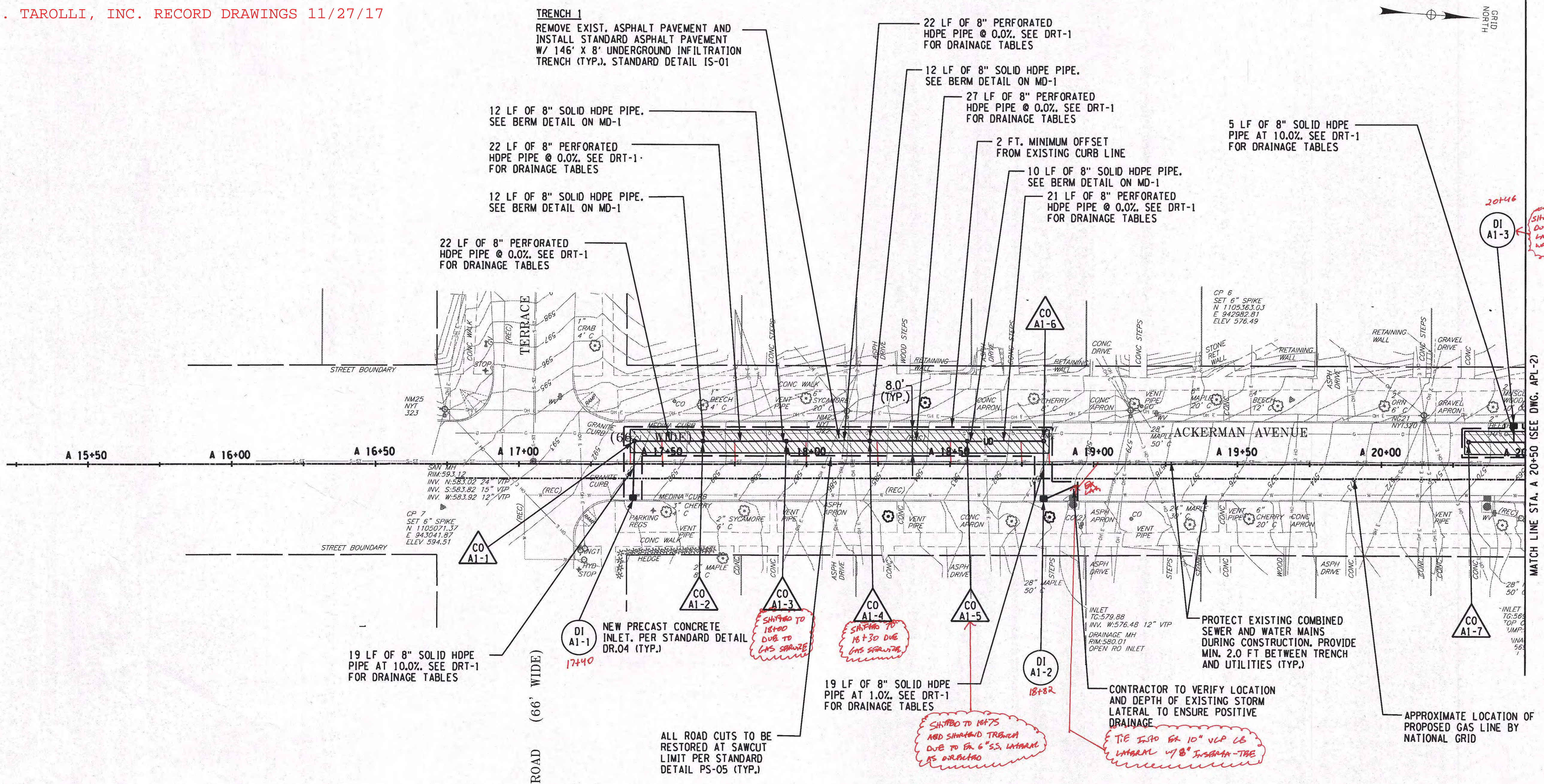


D.E. TAROLLI, INC. RECORD DRAWINGS 11/27/17

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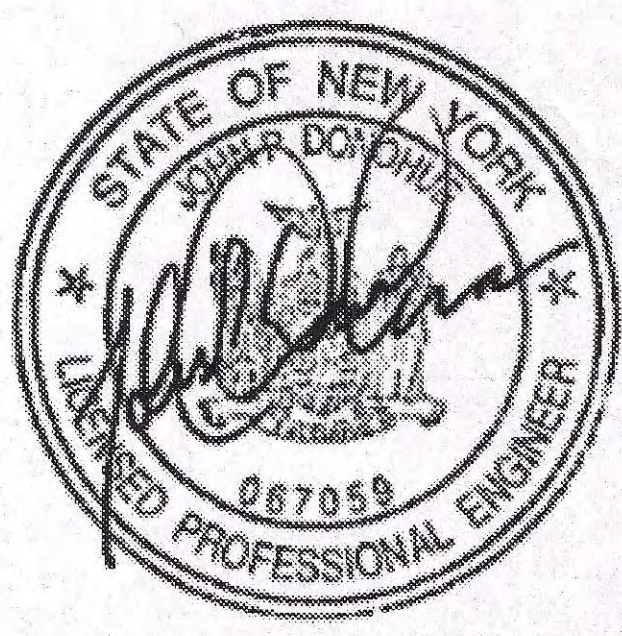
IN CHARGE OF JPD
DESIGNED BY KAW
CHECKED BY MCB
DRAFTED BY PJZ
CHECKED BY KAW



CLEANOUTS					
NO.	STATION	SIDE	OFFSET	INVERT ELEV.	DETAIL NO.
CO A1-1	A 17+40	LT	8'	584.46	DR-14
CO A1-2	A 17+64	LT	8'	587.31	DR-14
CO A1-3	A 17+93	LT	8'	585.26	DR-14
CO A1-4	A 18+22	LT	8'	583.20	DR-14
CO A1-5	A 18+56	LT	8'	580.81	DR-14
CO A1-6	A 18+84	LT	8'	577.63	DR-14
CO A1-7	A 20+29	LT	8'	563.95	DR-14

NOTE: CONTRACTOR TO CONFIRM LOCATION AND ELEVATION OF EXISTING WATER MAIN. CONTRACTOR TO NOTIFY ENGINEER OF ANY POTENTIAL CONFLICTS.

PREPARED BY: BARTON & LOGUIDICE, D.P.C.
ON:

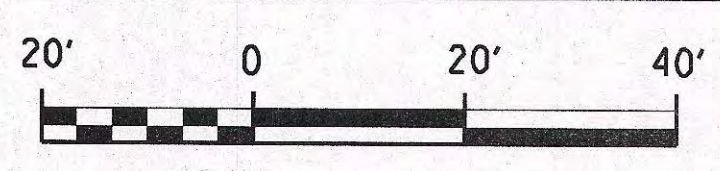


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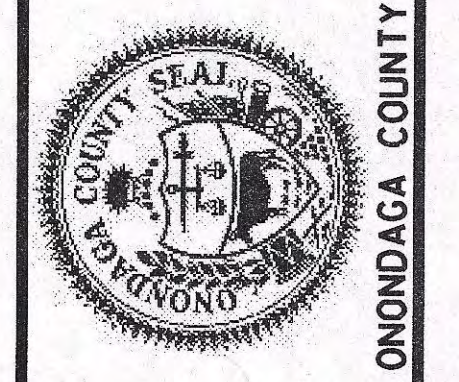
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XX - DRAWING NUMBER
N - STRUCTURE NUMBER
(SEE DRT-1 FOR GI TABLES)
- CO XX-N - CLEANOUTS
XX - DRAWING NUMBER
N - STRUCTURE NUMBER
(SEE DRT-1 FOR GI TABLES)

LEGEND:

- UNDERGROUND INFILTRATION TRENCH
- PROPOSED INLET
- EXISTING INLET
- 8" PERF. HDPE UNDERDRAIN PIPE
- PAVEMENT SAWCUT LINE
- PROPOSED TREE (SEE APP-1)



NO.	DATE	BY	REVISION



Barton & Loguidice, D.P.C.
ONONDAGA COUNTY DEPARTMENT OF WATER ENVIRONMENT PROTECTION
CITY OF SYRACUSE
ONONDAGA COUNTY

ONONDAGA COUNTY GREEN INFRASTRUCTURE IMPROVEMENTS
ACKERMAN AVE GENERAL PLAN

SCALE: AS SHOWN
DATE ISSUED: FEB 2017
DRAWING APL-1

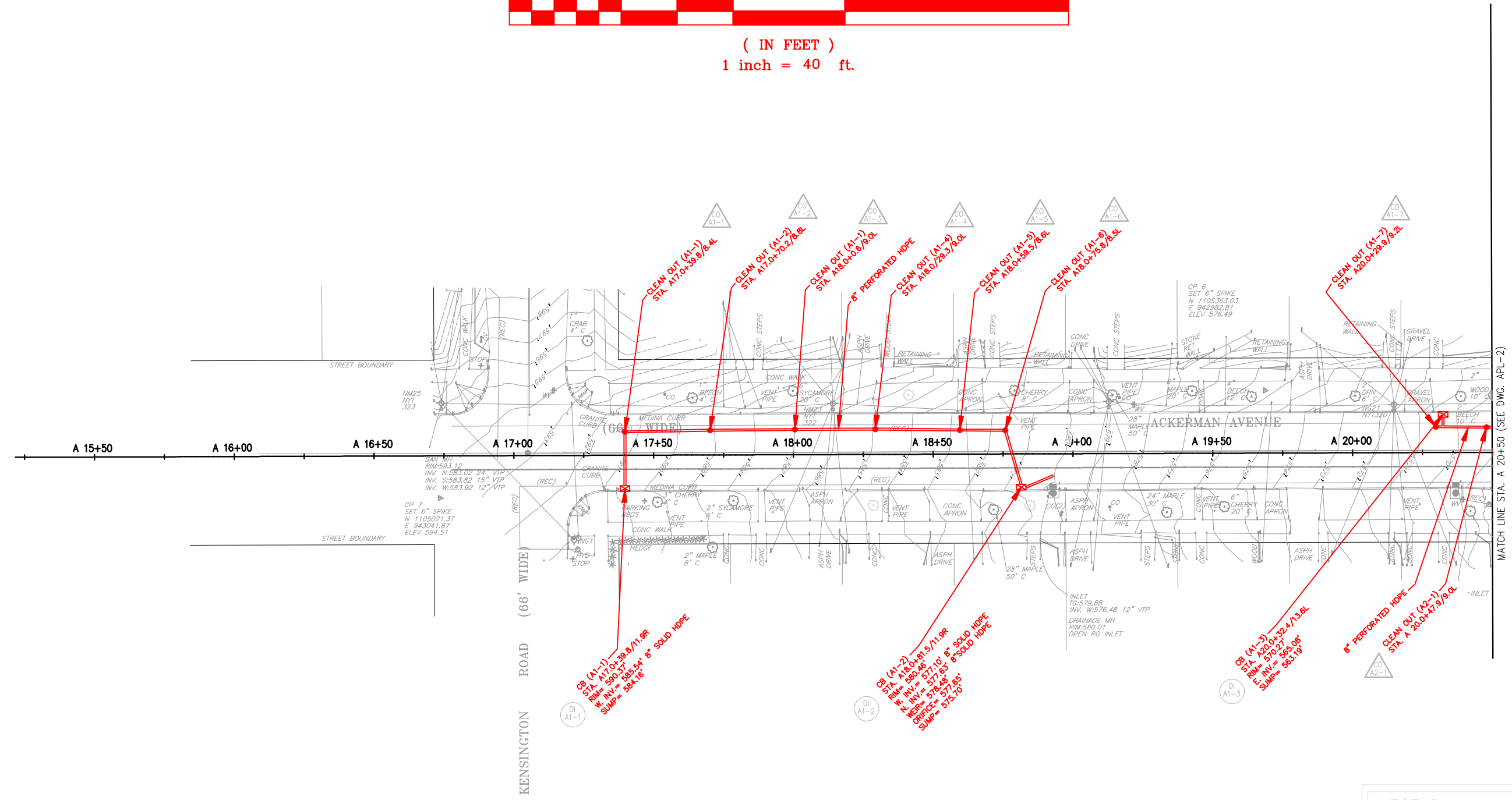
GRAPHIC SCALE



(IN FEET)
1 inch = 40 ft.



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 IN CHARGE OF JPD DESIGNED BY KAW CHECKED BY MCB DRAFTED BY PAZ CHECKED BY KAW
 \$USERS\$ \$SPENRLL\$ \$PLDRVL\$



MATCH LINE STA. A 20+50 (SEE DWG. APL-2)

PREPARED BY: BARTON & LOGUIDICE, D.P.C.
ON: FEBRUARY 24, 2017

LAND LINES
SURVEYING, P.C.
6181 JAMESVILLE TOLL ROAD
JAMESVILLE, NEW YORK 13078
315-492-4604

As-Built Survey

Colin M. Kraft
COLIN M. KRAFT LICENSE No. 50450

DRAWN BY: WHJ DATE: 12/18/2017
SCALE: 1"=20' DWG.No.: 171230

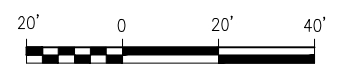
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REV: 05/14/2018	
REV: 05/22/2018	

KEY:

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XX - DRAWING NUMBER
N - STRUCTURE NUMBER
(SEE DRT-1 FOR GI TABLES)
- CO XX-N - CLEANOUTS
XX - DRAWING NUMBER
N - STRUCTURE NUMBER
(SEE DRT-1 FOR GI TABLES)

LEGEND:

- UNDERGROUND INFILTRATION TRENCH
- PROPOSED INLET
- EXISTING INLET
- 8" PERF. HDPE UNDERDRAIN PIPE
- PAVEMENT SAWCUT LINE
- PROPOSED TREE (SEE APP-1)



NO.	DATE	BY	REVISION

ONONDAGA COUNTY

UNAUTHORIZED ALTERATION OR ADDITION TO THIS DRAWING IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW ARTICLE 145 SECTION 7209

ONONDAGA COUNTY
GREEN INFRASTRUCTURE IMPROVEMENTS
ONONDAGA COUNTY DEPARTMENT OF WATER ENVIRONMENT PROTECTION
CITY OF SYRACUSE
ONONDAGA COUNTY

ACKERMAN AVE GENERAL PLAN
SCALE: AS SHOWN
DATE ISSUED: FEB 2017
DRAWING APL-1

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D.E. TAROLLI, INC. RECORD DRAWINGS 11/27/17

TRENCH 2
 REMOVE EXIST. ASPHALT PAVEMENT AND INSTALL STANDARD ASPHALT PAVEMENT W/ 143' X 8' UNDERGROUND INFILTRATION TRENCH (TYP.). STANDARD DETAIL IS-01

24 LF OF 8" PERFORATED HDPE PIPE @ 0.0%. SEE DRT-1 FOR DRAINAGE TABLES

11 LF OF 8" SOLID HDPE PIPE. SEE BERM DETAIL ON MD-1

45 LF OF 8" PERFORATED HDPE PIPE @ 0.0%. SEE DRT-1 FOR DRAINAGE TABLES

11 LF OF 8" SOLID HDPE PIPE. SEE BERM DETAIL ON MD-1

10 LF OF 8" SOLID HDPE PIPE. SEE BERM DETAIL ON MD-1

ALL ROAD CUTS TO BE RESTORED AT SAWCUT LIMIT PER STANDARD DETAIL PS-05 (TYP.)

2 FT. MINIMUM OFFSET FROM EXISTING CURB LINE

49 LF OF 8" PERFORATED HDPE PIPE @ 0.0%. SEE DRT-1 FOR DRAINAGE TABLES

5 LF OF 8" SOLID HDPE PIPE AT 10.0%. SEE DRT-1 FOR DRAINAGE TABLES

19 LF OF 8" SOLID HDPE PIPE AT 2.5%. SEE DRT-1 FOR DRAINAGE TABLES

10 LF OF 8" SOLID HDPE PIPE. SEE BERM DETAIL ON MD-1

TRENCH 3
 REMOVE EXIST. ASPHALT PAVEMENT AND INSTALL STANDARD ASPHALT PAVEMENT W/ 97' X 8' UNDERGROUND INFILTRATION TRENCH (TYP.). STANDARD DETAIL IS-01

37 LF OF 8" PERFORATED HDPE PIPE @ 0.0%. SEE DRT-1 FOR DRAINAGE TABLES

CONCRETE SIDEWALK PER STANDARD DETAIL PS-11 (TYP.)

TRENCH 4
 REMOVE EXIST. ASPHALT PAVEMENT AND INSTALL STANDARD ASPHALT PAVEMENT W/ 127' X 8' UNDERGROUND INFILTRATION TRENCH (TYP.). STANDARD DETAIL IS-01

124 LF OF 8" PERFORATED HDPE PIPE @ 0.0%. SEE DRT-1 FOR DRAINAGE TABLES

5 LF OF 8" SOLID HDPE PIPE AT 10.0%. SEE DRT-1 FOR DRAINAGE TABLES

ALL CURB RAMPS PER STANDARD DETAIL PS-13 (TYP.)

VEGETATIVE INFILTRATION TRENCH PER DETAIL ON DWG. MD-1 (TYP.)

49 LF OF 8" PERFORATED HDPE PIPE @ 0.0%. SEE DRT-1 FOR DRAINAGE TABLES

6 LF OF 8" SOLID HDPE PIPE AT 10.0%. SEE DRT-1 FOR DRAINAGE TABLES

19 LF OF 8" SOLID HDPE PIPE AT 10.0%. SEE DRT-1 FOR DRAINAGE TABLES

19 LF OF 8" SOLID HDPE PIPE AT 10.0%. SEE DRT-1 FOR DRAINAGE TABLES

5 LF OF 8" SOLID HDPE PIPE AT 10.0%. SEE DRT-1 FOR DRAINAGE TABLES

19 LF OF 8" SOLID HDPE PIPE AT 10.0%. SEE DRT-1 FOR DRAINAGE TABLES

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19 LF OF 8" SOLID HDPE PIPE AT 10.0%. SEE DRT-1 FOR DRAINAGE TABLES

19 LF OF 8" SOLID HDPE PIPE AT 10.0%. SEE DRT-1 FOR DRAINAGE TABLES

19 LF OF 8" SOLID HDPE PIPE AT 10.0%. SEE DRT-1 FOR DRAINAGE TABLES

CLEANOUTS					CLEANOUTS						
NO.	STATION	SIDE	OFFSET	INVERT ELEV.	DETAIL NO.	NO.	STATION	SIDE	OFFSET	INVERT ELEV.	DETAIL NO.
CO A2-1	A 20+53	LT	8'	566.64	DR-14	CO A2-8	A 23+15	LT	8'	549.60	DR-14
CO A2-2	A 20+82	LT	8'	564.53	DR-14	CO A2-9	A 23+35	LT	7'	548.41	DR-14
CO A2-3	A 21+12	LT	8'	562.46	DR-14	CO A2-10	A 23+96	LT	7'	548.41	DR-14
CO A2-4	A 21+43	LT	8'	560.36	DR-14	CO A2-11	A 24+59	LT	7'	548.41	DR-14
CO A2-5	A 21+70	LT	8'	556.66	DR-14	CO A2-12	A 24+71	RT	66'	548.02	DR-14
CO A2-6	A 22+22	LT	8'	555.57	DR-14	CO A2-13	A 24+71	LT	36'	546.87	DR-14
CO A2-7	A 23+74	LT	8'	550.69	DR-14	CO A2-14	A 25+11	RT	93'	552.87	DR-14
						CO A2-15	A 25+23	LT	7'	548.09	DR-14

CLEANOUTS					CLEANOUTS						
NO.	STATION	SIDE	OFFSET	INVERT ELEV.	DETAIL NO.	NO.	STATION	SIDE	OFFSET	INVERT ELEV.	DETAIL NO.
CO A2-1	A 20+53	LT	8'	566.64	DR-14	CO A2-8	A 23+15	LT	8'	549.60	DR-14
CO A2-2	A 20+82	LT	8'	564.53	DR-14	CO A2-9	A 23+35	LT	7'	548.41	DR-14
CO A2-3	A 21+12	LT	8'	562.46	DR-14	CO A2-10	A 23+96	LT	7'	548.41	DR-14
CO A2-4	A 21+43	LT	8'	560.36	DR-14	CO A2-11	A 24+59	LT	7'	548.41	DR-14
CO A2-5	A 21+70	LT	8'	556.66	DR-14	CO A2-12	A 24+71	RT	66'	548.02	DR-14
CO A2-6	A 22+22	LT	8'	555.57	DR-14	CO A2-13	A 24+71	LT	36'	546.87	DR-14
CO A2-7	A 23+74	LT	8'	550.69	DR-14	CO A2-14	A 25+11	RT	93'	552.87	DR-14
						CO A2-15	A 25+23	LT	7'	548.09	DR-14

NOTE: CONTRACTOR TO CONFIRM LOCATION AND ELEVATION OF EXISTING WATER MAIN. CONTRACTOR TO NOTIFY ENGINEER OF ANY POTENTIAL CONFLICTS.

LEGEND:

- RECONSTRUCT CONCRETE SIDEWALK
- VEGETATED INFILTRATION TRENCH
- UNDERGROUND INFILTRATION TRENCH
- PROPOSED INLET
- EXISTING CB
- PROPOSED OVERFLOW RISER
- 8" PERF. HDPE UNDERDRAIN PIPE
- PAVEMENT SAWCUT LINE
- CURB STORMWATER INLET
- PROPOSED TREE (SEE APP-2)

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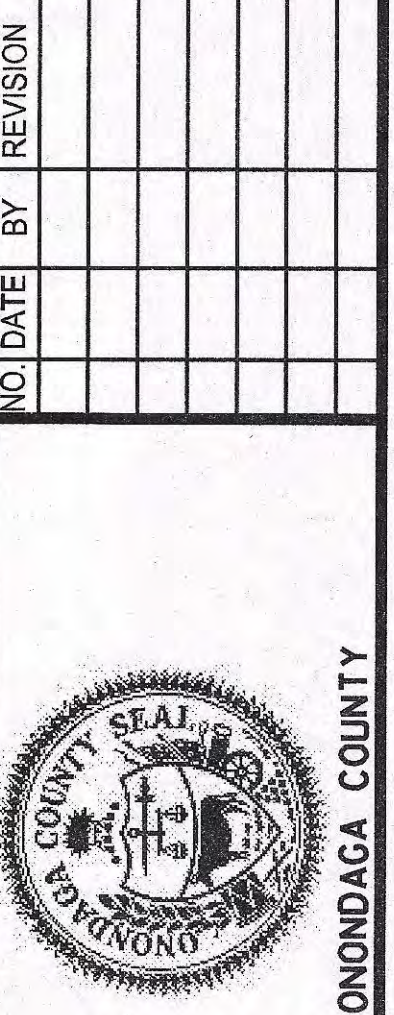
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- CO XX-N - CLEANOUTS XX - DRAWING NUMBER N - STRUCTURE NUMBER (SEE DRT-1 FOR GI TABLES)



PREPARED BY: BARTON & LOGUIDICE, D.P.C.
 ON:



DESIGNED BY: JPD
 CHECKED BY: KAW
 MCB
 DRAFTED BY: P.J.Z.
 CHECKED BY: KAW
 NO. DATE BY REVISION



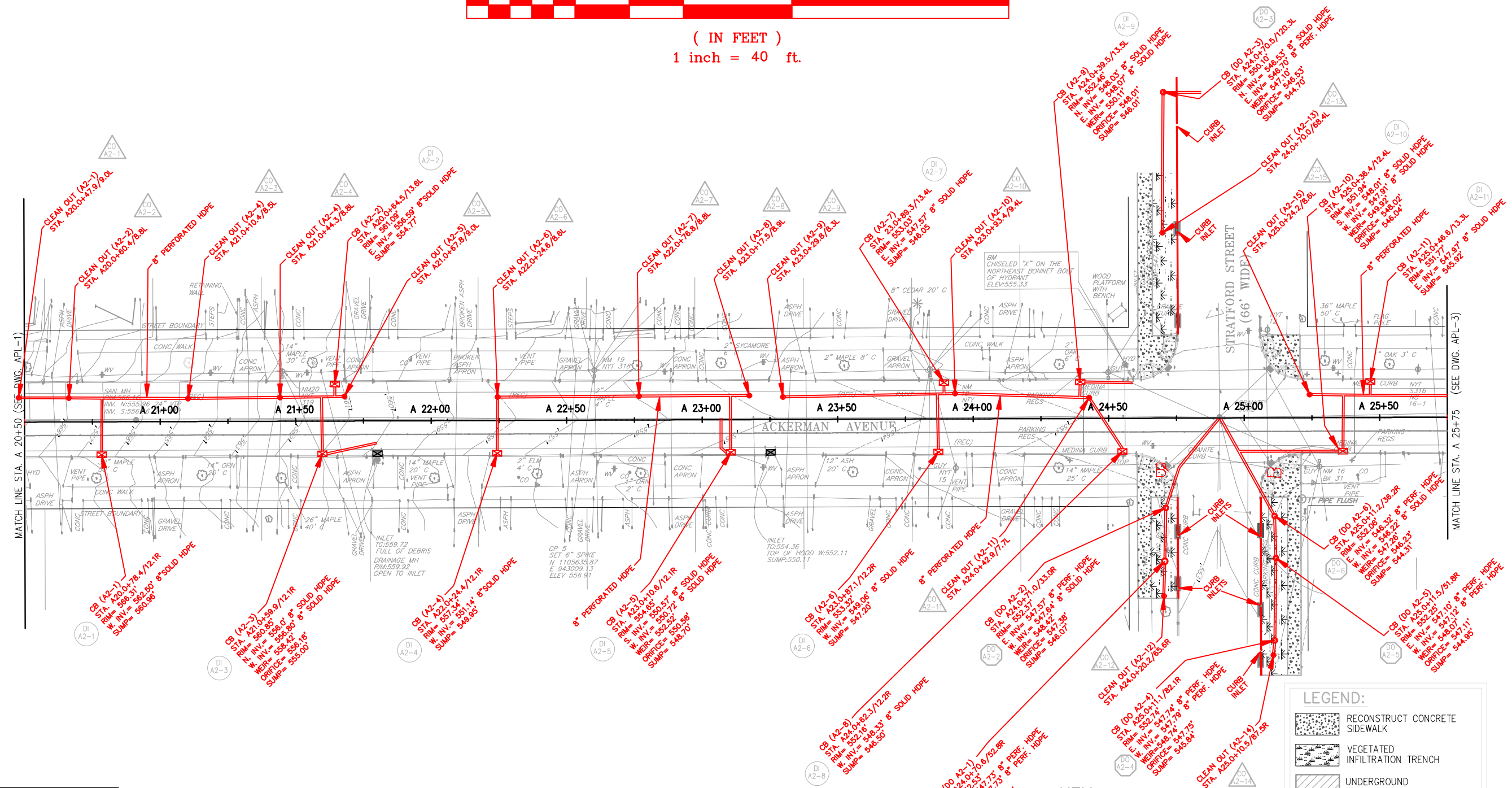
Barton & Loguidice, D.P.C.
 GREEN INFRASTRUCTURE IMPROVEMENTS
 ONONDAGA COUNTY DEPARTMENT OF WATER ENVIRONMENT PROTECTION
 CITY OF SYRACUSE
 ONONDAGA COUNTY

ACKERMAN AVE GENERAL PLAN
 SCALE: AS SHOWN
 DATE ISSUED: FEB 2017
 DRAWING APL-2

GRAPHIC SCALE



(IN FEET)
1 inch = 40 ft.



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 TIME = \$TIME\$
 IN CHARGE OF JPD
 DESIGNED BY KAW
 CHECKED BY MCB
 DRAFTED BY PAZ
 CHECKED BY KAW
 \$USERS\$
 \$SPENRLL\$
 \$PLDRVL\$

PREPARED BY: BARTON & LOGUIDICE, D.P.C.
ON: FEBRUARY 24, 2017

LAND LINES
SURVEYING, P.C.
6181 JAMESVILLE TOLL ROAD
JAMESVILLE, NEW YORK 13078
315-492-4604

As-Built Survey
Colin M. Kraft
COLIN M. KRAFT LICENSE No. 50450

DRAWN BY: WHJ DATE: 12/18/2017
SCALE: 1"=20' DWG.No.: 171230

REVISIONS	
REV: 05/14/2018	
REV: 05/22/2018	
REV: 05/23/2018	

KEY:

- DI XX-N - DRAINAGE INLET
XX - DRAWING NUMBER
N - STRUCTURE NUMBER
(SEE DRT-1 FOR GI TABLES)
- DO XX-N - DOME OVERFLOW OUTLETS
XX - DRAWING NUMBER
N - STRUCTURE NUMBER
(SEE DRT-1 FOR GI TABLES)
- CO XX-N - CLEANOUTS
XX - DRAWING NUMBER
N - STRUCTURE NUMBER
(SEE DRT-1 FOR GI TABLES)

LEGEND:

- RECONSTRUCT CONCRETE SIDEWALK
- VEGETATED INFILTRATION TRENCH
- UNDERGROUND INFILTRATION TRENCH
- PROPOSED INLET
- EXISTING CB
- PROPOSED OVERFLOW RISER
- 8" PERF. HDPE UNDERDRAIN PIPE
- PAVEMENT SAWCUT LINE
- CURB STORMWATER INLET
- PROPOSED TREE (SEE APP-2)



NO.	DATE	BY	REVISION

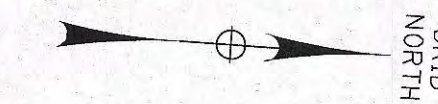
ONONDAGA COUNTY
UNAUTHORIZED ALTERATION OR ADDITION TO THIS DRAWING IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW, ARTICLE 145 SECTION 7209

ONONDAGA COUNTY
GREEN INFRASTRUCTURE IMPROVEMENTS
ONONDAGA COUNTY DEPARTMENT OF WATER ENVIRONMENT PROTECTION
CITY OF SYRACUSE
ONONDAGA COUNTY

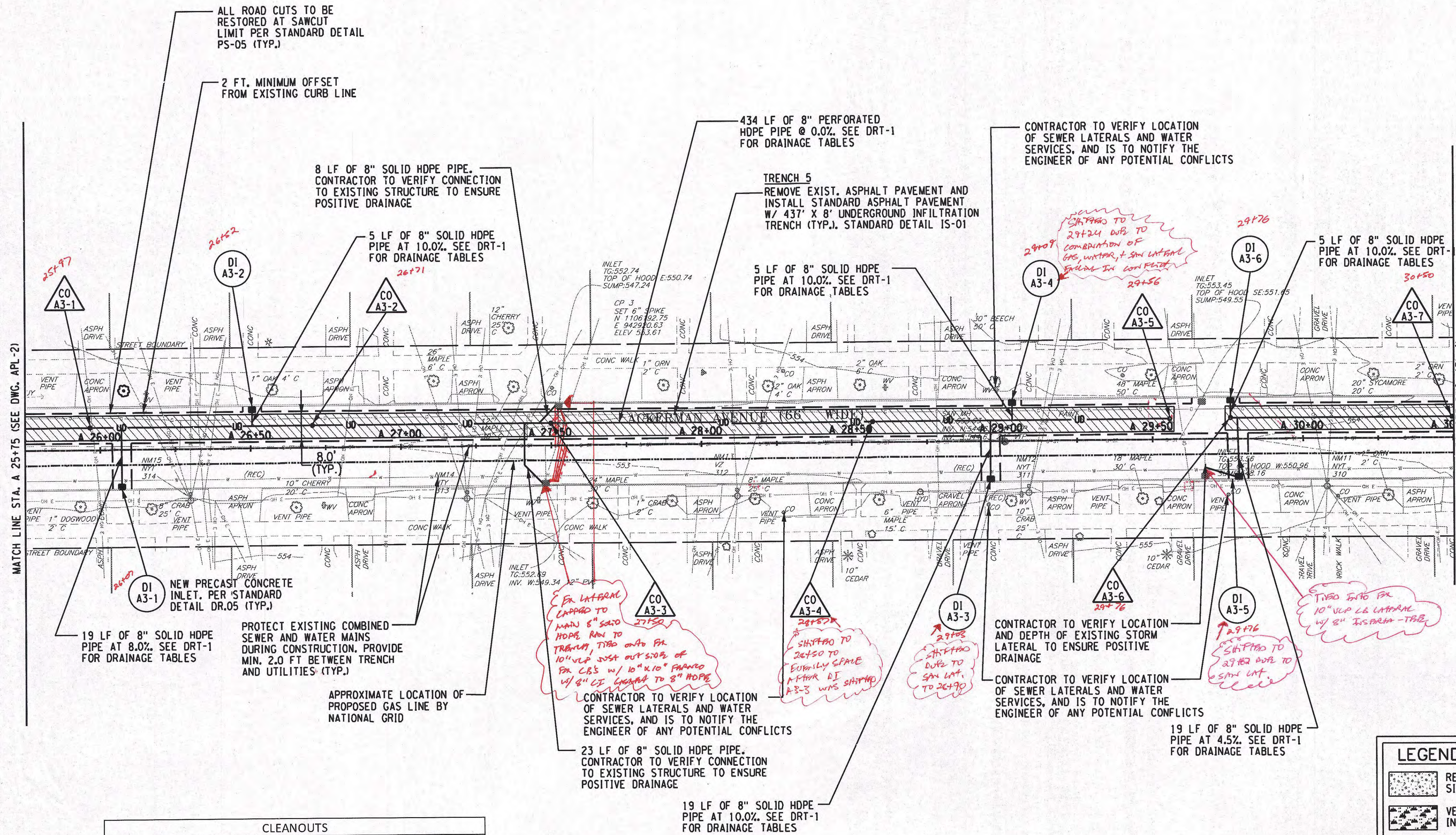
ACKERMAN AVE GENERAL PLAN
SCALE: AS SHOWN
DATE ISSUED: FEB 2017
DRAWING APL-2



D.E. TAROLLI, INC. RECORD DRAWINGS 11/27/17



13
25



CLEANOUTS					
NO.	STATION	SIDE	OFFSET	INVERT ELEV.	DETAIL NO.
CO A3-1	A 25+97	LT	7'	548.09	DR-14
CO A3-2	A 26+71	LT	7'	548.09	DR-14
CO A3-3	A 27+50	LT	7'	548.09	DR-14
CO A3-4	A 28+57	LT	7'	548.09	DR-14
CO A3-5	A 29+56	LT	7'	548.09	DR-14
CO A3-6	A 29+76	LT	7'	549.70	DR-14
CO A3-7	A 30+50	LT	7'	549.70	DR-14

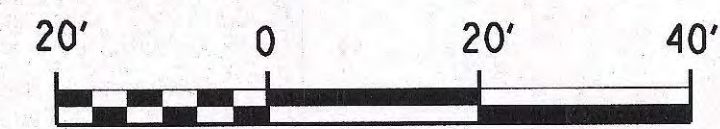
NOTE: CONTRACTOR TO CONFIRM LOCATION AND ELEVATION OF EXISTING WATER MAIN. CONTRACTOR TO NOTIFY ENGINEER OF ANY POTENTIAL CONFLICTS.

LEGEND:

- RECONSTRUCT CONCRETE SIDEWALK
- VEGETATED INFILTRATION TRENCH
- UNDERGROUND INFILTRATION TRENCH
- PROPOSED INLET
- EXISTING CB
- PROPOSED OVERFLOW RISER
- 8" PERF. HDPE UNDERDRAIN PIPE
- PAVEMENT SAWCUT LINE
- PROPOSED TREE (SEE APP-3)

KEY:

- DI XX-N - DRAINAGE INLET
XX - DRAWING NUMBER
N - STRUCTURE NUMBER
(SEE DRT-1 FOR GI TABLES)
- CO XX-N - CLEANOUTS
XX - DRAWING NUMBER
N - STRUCTURE NUMBER
(SEE DRT-1 FOR GI TABLES)



IN CHARGE OF: JPD
 DESIGNED BY: KAW
 CHECKED BY: MCB
 DRAFTED BY: PZJ
 CHECKED BY: KAW

PREPARED BY: BARTON & LOGUIDICE, D.P.C.
ON:

NO. DATE BY REVISION

ONONDAGA COUNTY

Barton & Loguidice, D.P.C.

UNAUTHORIZED ALTERATION OR ADDITION TO THIS DRAWING IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW ARTICLE 145 SECTION 7209

ONONDAGA COUNTY GREEN INFRASTRUCTURE IMPROVEMENTS

ONONDAGA COUNTY DEPARTMENT OF WATER ENVIRONMENT PROTECTION

CITY OF SYRACUSE ONONDAGA COUNTY

ACKERMAN AVE GENERAL PLAN

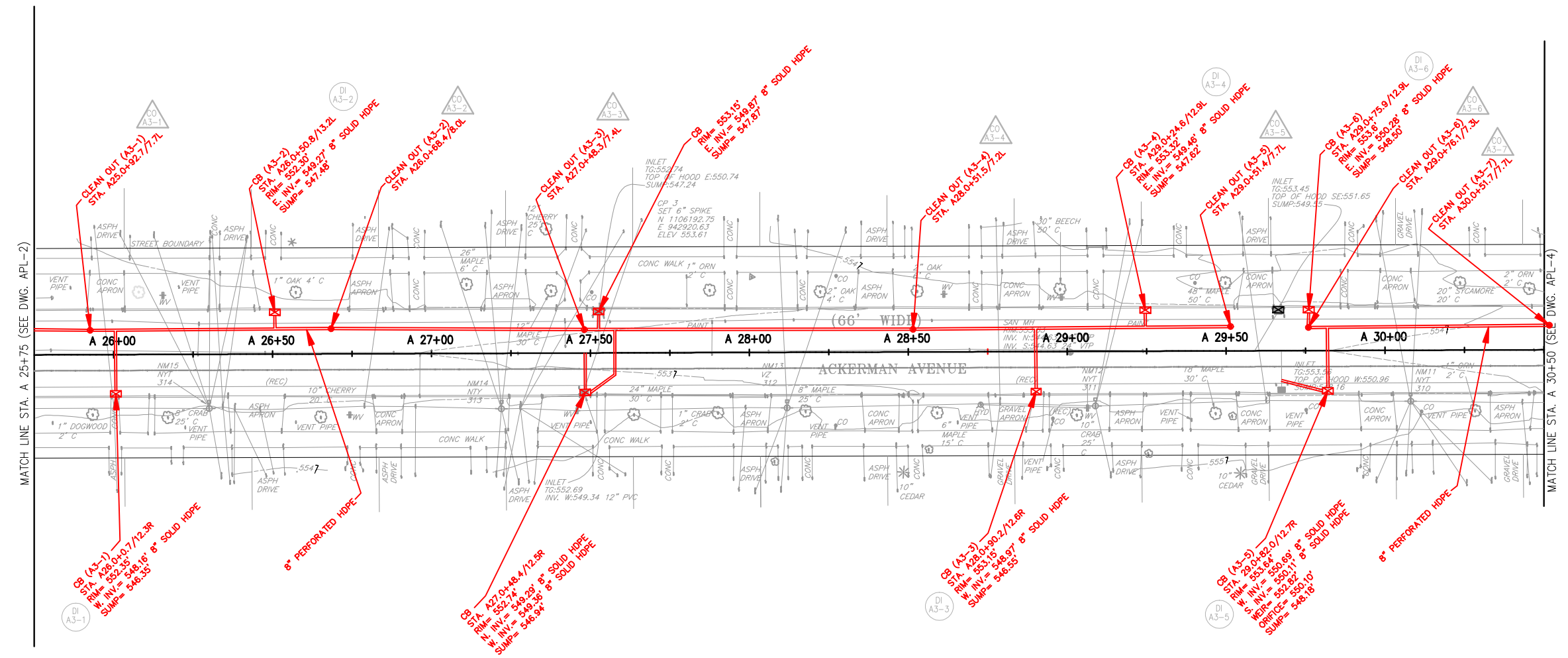
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GRAPHIC SCALE



(IN FEET)
1 inch = 40 ft.



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 CHECKED BY MCB
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 CHECKED BY KAW
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PREPARED BY: BARTON & LOGUIDICE, D.P.C.
ON: FEBRUARY 24, 2017

LAND LINES
SURVEYING, P.C.
6181 JAMESVILLE TOLL ROAD
JAMESVILLE, NEW YORK 13078
315-492-4604

As-Built Survey
Colin M. Kraft
COLIN M. KRAFT LICENSE No. 50450

DRAWN BY: WHJ DATE: 12/18/2017
SCALE: 1"=20' DWG.No.: 171230

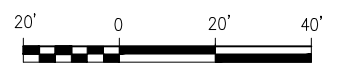
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REV: 05/14/2018	
REV: 05/22/2018	

KEY:

- DI XX-N - DRAINAGE INLET
XX - DRAWING NUMBER
N - STRUCTURE NUMBER
(SEE DRT-1 FOR GI TABLES)
- CO XX-N - CLEANOUTS
XX - DRAWING NUMBER
N - STRUCTURE NUMBER
(SEE DRT-1 FOR GI TABLES)

LEGEND:

- RECONSTRUCT CONCRETE SIDEWALK
- VEGETATED INFILTRATION TRENCH
- UNDERGROUND INFILTRATION TRENCH
- PROPOSED INLET
- EXISTING CB
- PROPOSED OVERFLOW RISER
- 8" PERF. HDPE UNDERDRAIN PIPE
- PAVEMENT SAWCUT LINE
- PROPOSED TREE (SEE APP-3)



NO.	DATE	BY	REVISION

ONONDAGA COUNTY
GREEN INFRASTRUCTURE IMPROVEMENTS
ONONDAGA COUNTY DEPARTMENT OF WATER ENVIRONMENT PROTECTION
CITY OF SYRACUSE
ONONDAGA COUNTY

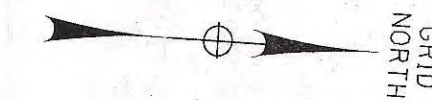
UNAUTHORIZED ALTERATION OR ADDITION TO THIS DRAWING IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW, ARTICLE 145 SECTION 7209

ACKERMAN AVE
GENERAL PLAN

SCALE: AS SHOWN
DATE ISSUED: FEB 2017
DRAWING
APL-3



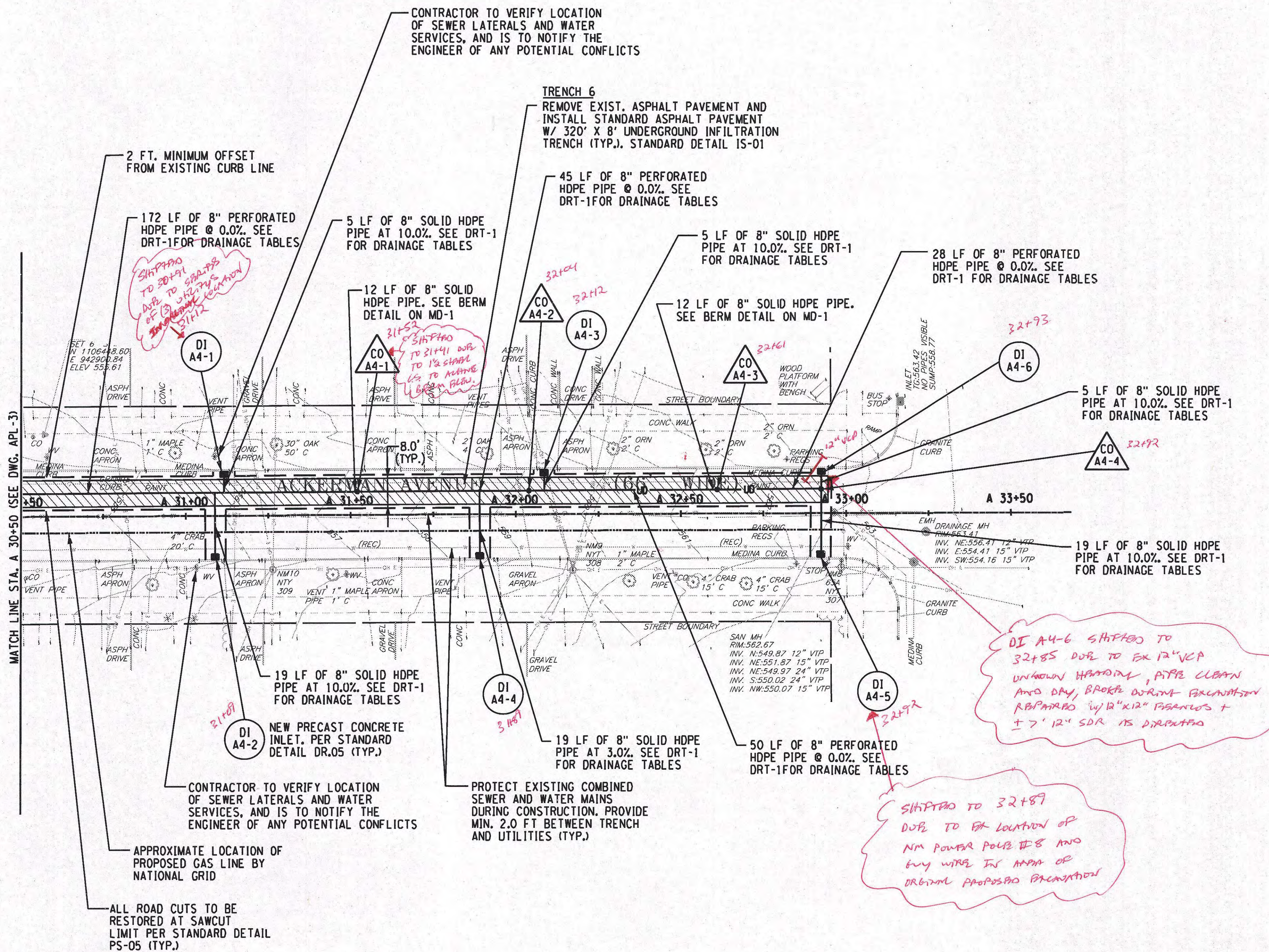
D.E. TAROLLI, INC. RECORD DRAWINGS 11/27/17



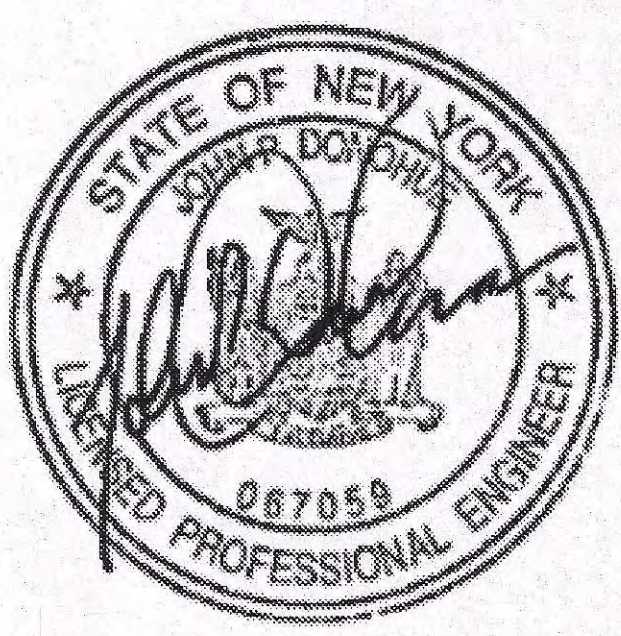
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IN CHARGE OF JPD
DESIGNED BY KAW
CHECKED BY MCB
DRAFTED BY PJZ
CHECKED BY KAW
NO. DATE BY REVISION



PREPARED BY: BARTON & LOGUIDICE, D.P.C.
ON:



CLEANOUTS					
NO.	STATION	SIDE	OFFSET	INVERT ELEV.	DETAIL NO.
CO A4-1	A 31+52	LT	7'	550.29	DR-14
CO A4-2	A 32+04	LT	7'	555.21	DR-14
CO A4-3	A 32+61	LT	7'	557.27	DR-14
CO A4-4	A 32+92	LT	7'	559.33	DR-14

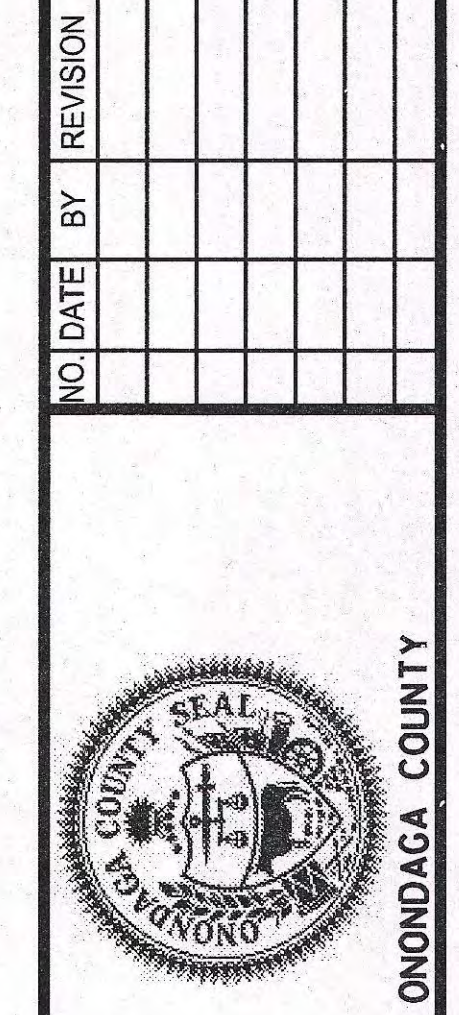
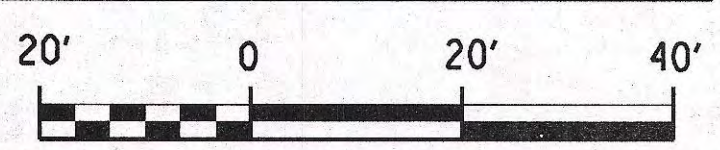
NOTE: CONTRACTOR TO CONFIRM ELEVATION OF EXISTING WATER MAIN. CONTRACTOR TO NOTIFY ENGINEER OF ANY POTENTIAL CONFLICTS.

KEY:

- DI XX-N - DRAINAGE INLET
XX - DRAWING NUMBER
N - STRUCTURE NUMBER
(SEE DRT-1 FOR GI TABLES)
- CO XX-N - CLEANOUTS
XX - DRAWING NUMBER
N - STRUCTURE NUMBER
(SEE DRT-1 FOR GI TABLES)

LEGEND:

- RECONSTRUCT CONCRETE SIDEWALK
- VEGETATED INFILTRATION TRENCH
- UNDERGROUND INFILTRATION TRENCH
- PROPOSED INLET
- EXISTING CB
- PROPOSED OVERFLOW RISER
- 8" PERF. HDPE UNDERDRAIN PIPE
- PAVEMENT SAWCUT LINE
- CURB STORMWATER INLET



Barton & Loguidice, D.P.C.
ONONDAGA COUNTY DEPARTMENT OF WATER ENVIRONMENT PROTECTION
CITY OF SYRACUSE
ONONDAGA COUNTY

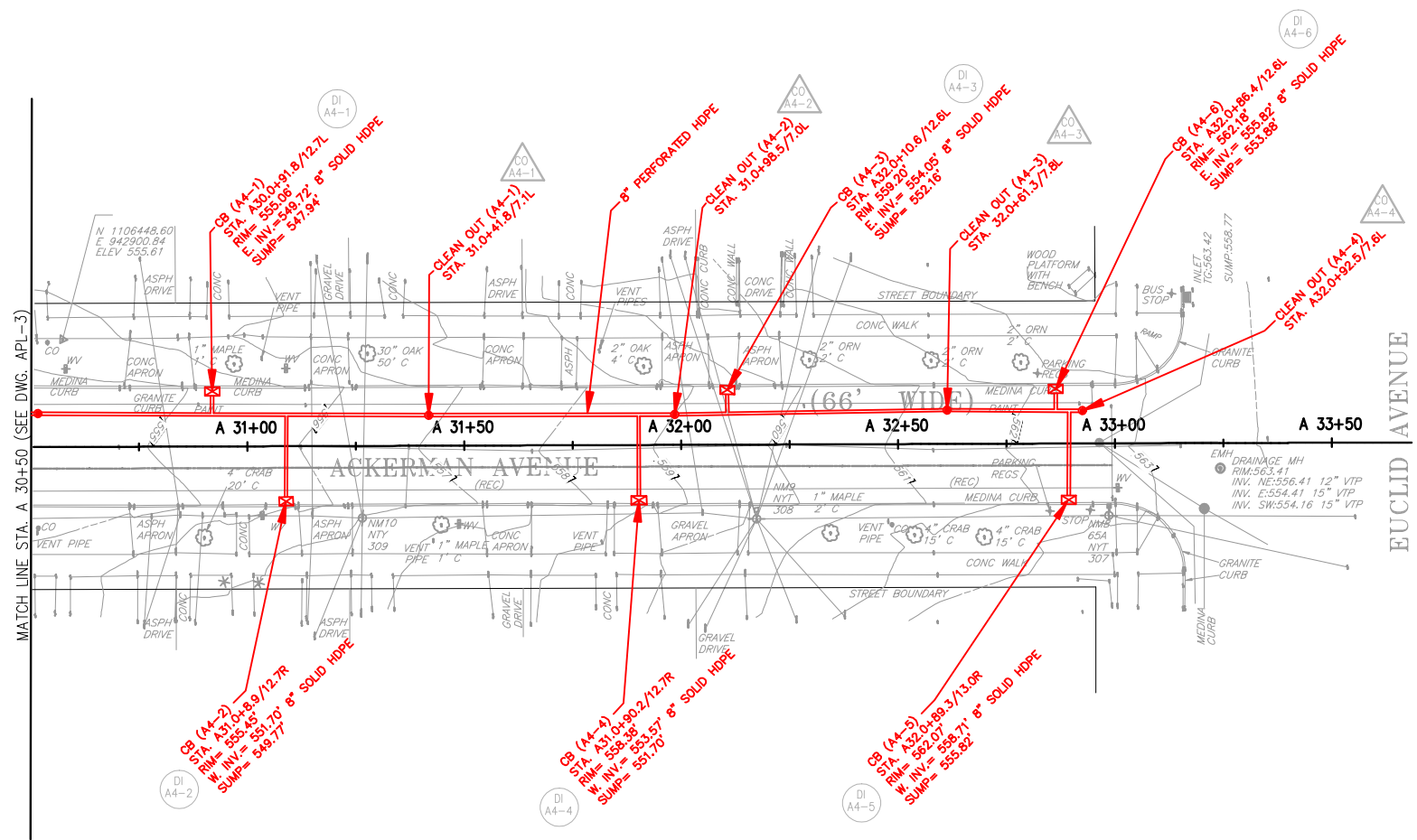
ONONDAGA COUNTY GREEN INFRASTRUCTURE IMPROVEMENTS
SCALE: AS SHOWN
DATE ISSUED: FEB 2017
DRAWING APL-4

UNAUTHORIZED ALTERATION OR ADDITION TO THIS DRAWING IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW ARTICLE 145 SECTION 7209

GRAPHIC SCALE



(IN FEET)
1 inch = 40 ft.



FILE NAME = \$FILES\$
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NO. DATE BY REVISION

PREPARED BY: BARTON & LOGUIDICE, D.P.C.
ON: FEBRUARY 24, 2017

LAND LINES
SURVEYING, P.C.
6181 JAMESVILLE TOLL ROAD
JAMESVILLE, NEW YORK 13078
315-492-4604

As-Built Survey
Colin M. Kraft
COLIN M. KRAFT LICENSE No. 50450
DRAWN BY: WHJ DATE: 12/18/2017
SCALE: 1"=20' DWG.No.: 171230

REVISIONS	
REV: 05/14/2018	
REV: 05/22/2018	

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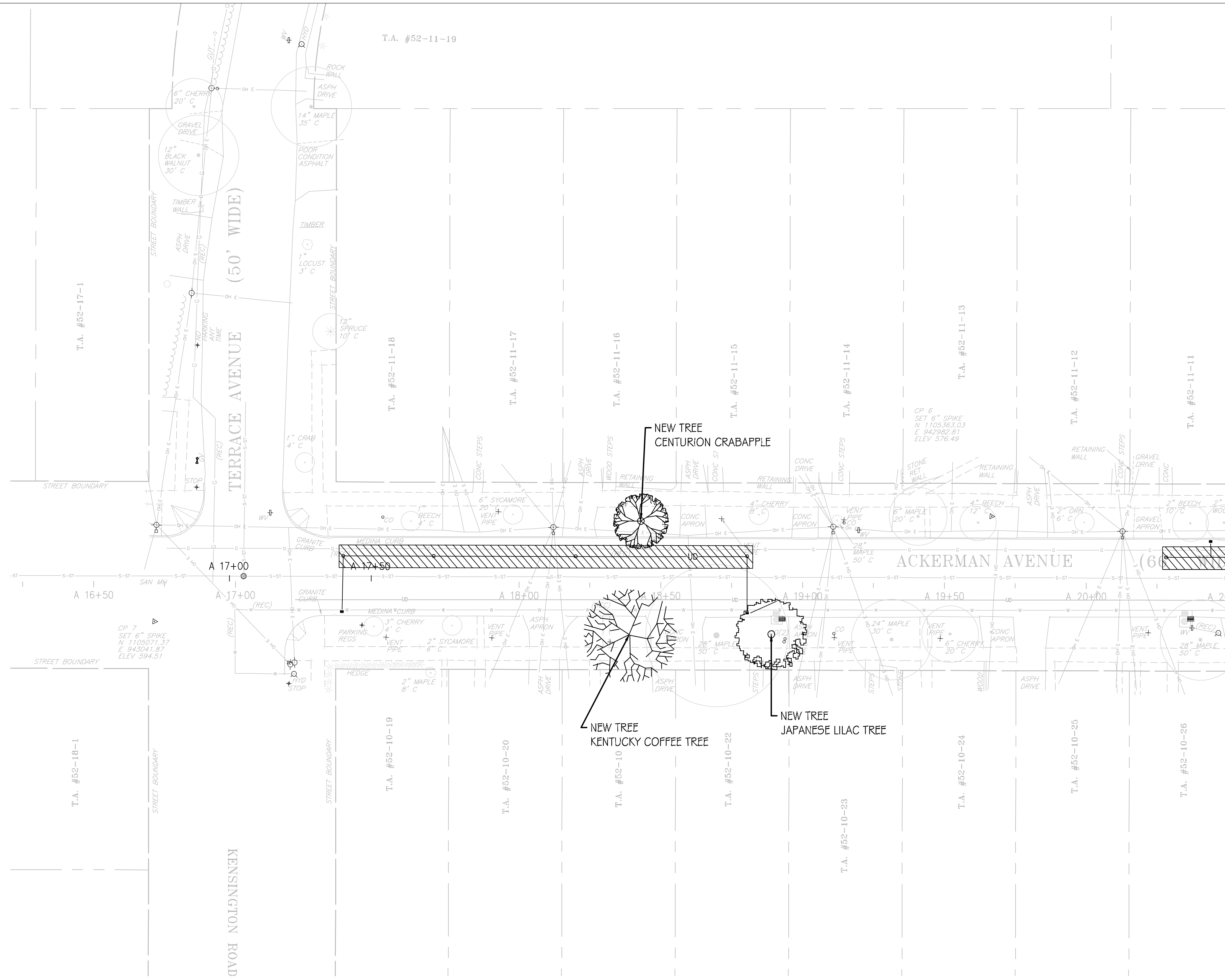
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(SEE DRT-1 FOR GI TABLES)
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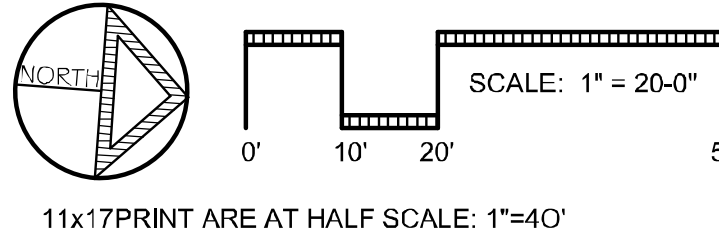
- RECONSTRUCT CONCRETE SIDEWALK
- VEGETATED INFILTRATION TRENCH
- UNDERGROUND INFILTRATION TRENCH
- PROPOSED INLET
- EXISTING CB
- PROPOSED OVERFLOW RISER
- 8" PERF. HDPE UNDERDRAIN PIPE
- PAVEMENT SAWCUT LINE
- CURB STORMWATER INLET



ONONDAGA COUNTY GREEN INFRASTRUCTURE IMPROVEMENTS	ONONDAGA COUNTY
ONONDAGA COUNTY DEPARTMENT OF WATER ENVIRONMENT PROTECTION	CITY OF SYRACUSE ONONDAGA COUNTY
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ACKERMAN AVE GENERAL PLAN	
SCALE: AS SHOWN DATE ISSUED: FEB 2017 DRAWING APL-4	

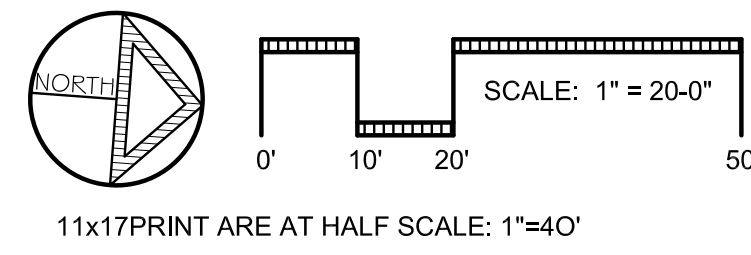
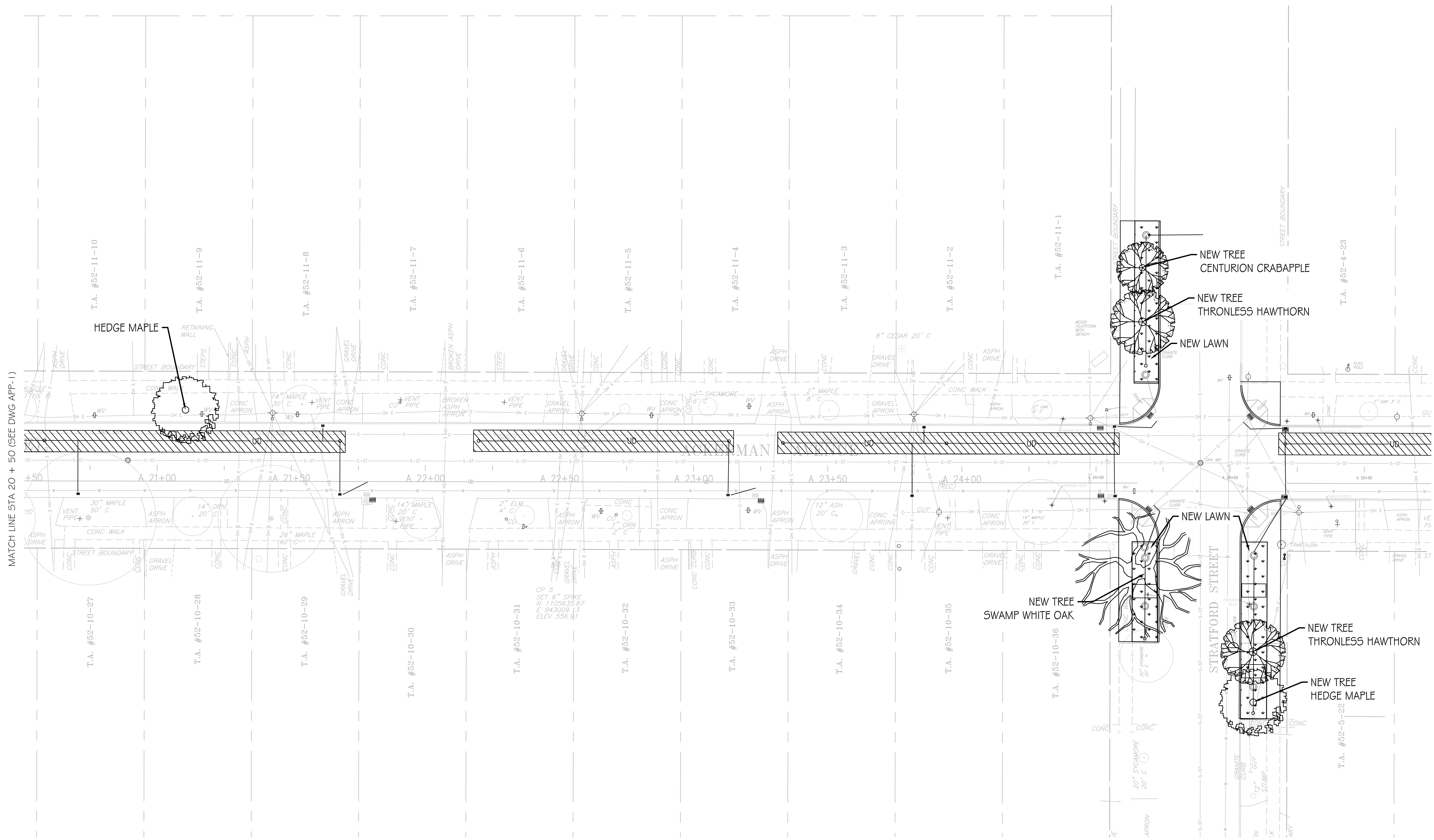


MATCH LINE STA 20 + 50 (SEE DWG APP-2)



ACKERMAN PLANTING PLAN		ONONDAGA COUNTY GREEN INFRASTRUCTURE IMPROVEMENTS		ONONDAGA COUNTY SEAL'S OFFICE ONONDAGA COUNTY	
SCALE: AS NOTED		ONONDAGA COUNTY DEPARTMENT OF WATER ENVIRONMENT PROTECTION		NO. DATE BY REVISION	
DATE ISSUED: 02/2017		CITY OF SYRACUSE ONONDAGA COUNTY			
DRAWING APP-1		MAXIAN + HORST Landscape Architects + Land Planners, PLLC, WBE. 308 Hawley Avenue Syracuse, NY 13203 P: 315.472.0371 F: 315.472.0378 www.maxianhorst.com		15 25	
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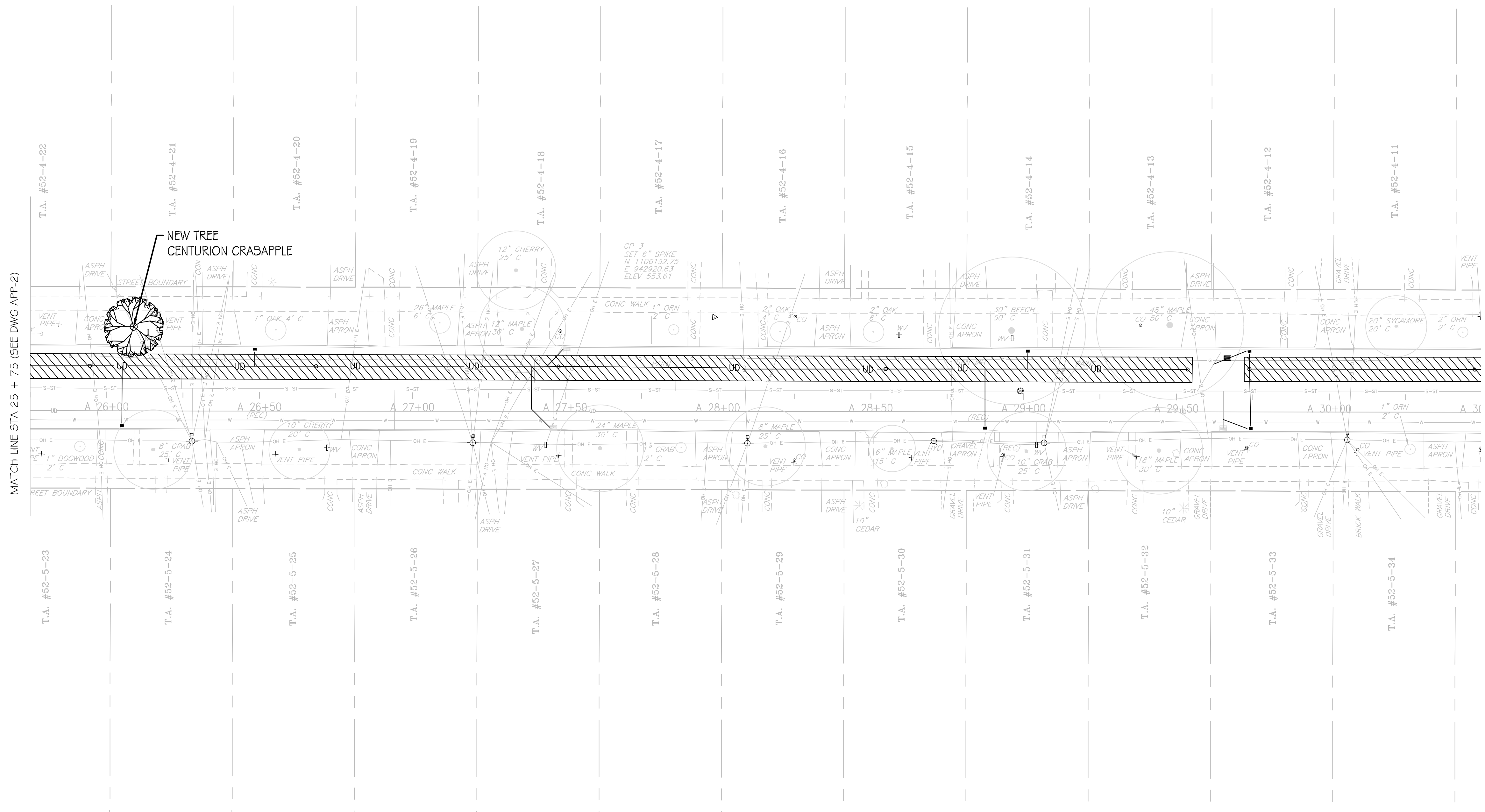
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MATCH LINE STA 20 + 50 (SEE DWG APP-1) MATCH LINE STA 25 + 75 (SEE DWG APP-3)

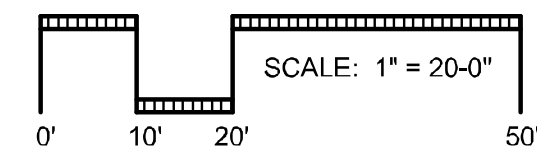
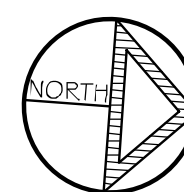
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CITY OF SYRACUSE ONONDAGA COUNTY	
ACKERMAN PLANTING PLAN	
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MAXIAN + HORST Landscape Architects + LandPlanners P.L.L.C. W.B.E. 335 Highway Avenue Syracuse, NY 13203 P: 315.472.8278 www.maxianhorst.com	
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MATCH LINE STA 25 + 75 (SEE DWG APP-2)

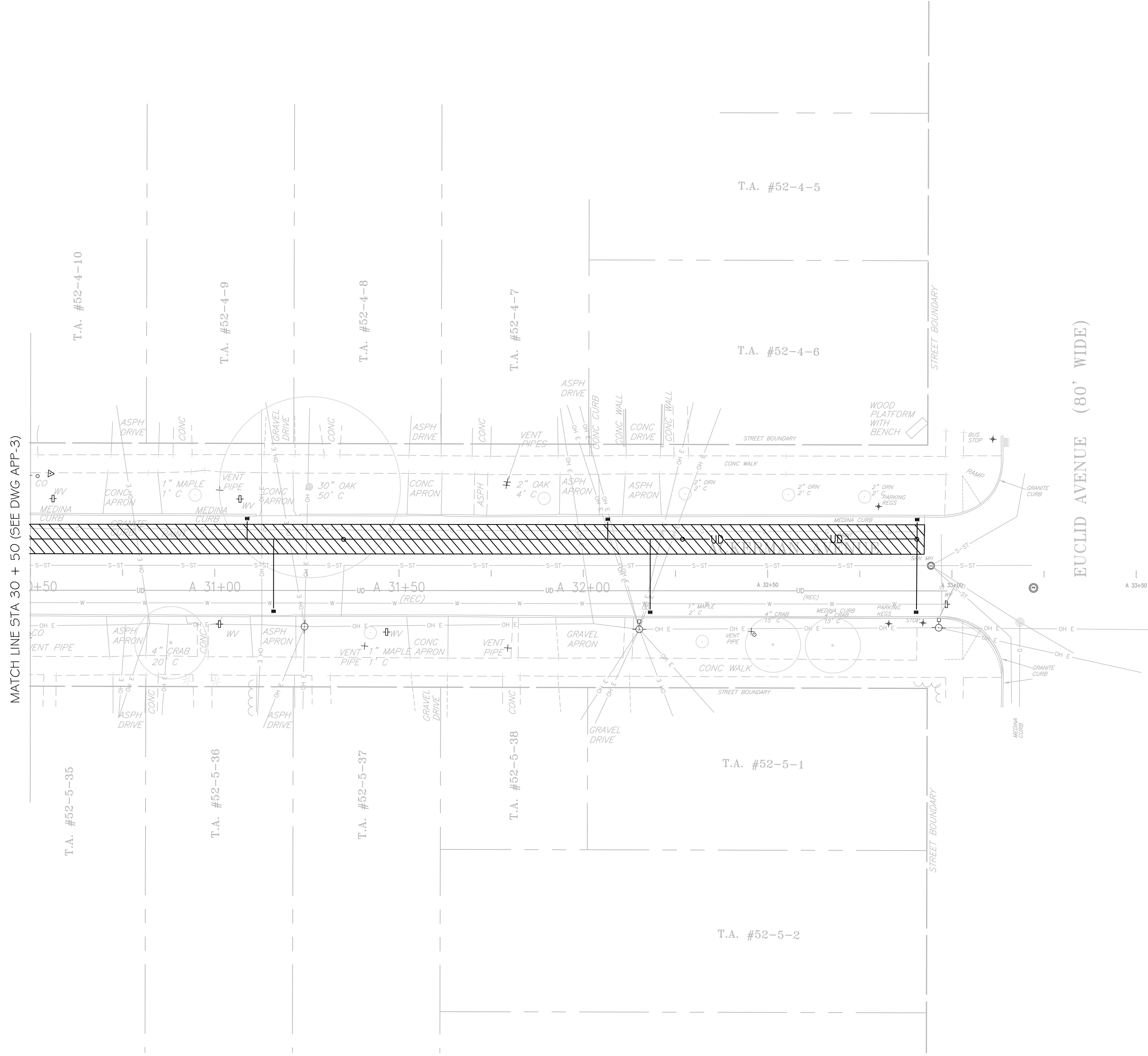
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SCALE: AS NOTED
DATE ISSUED: 02/2017
DRAWING APP-3

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<p>CITY OF SYRACUSE ONONDAGA COUNTY</p>		<p>UNAUTHORIZED ALTERATION OR ADDITION TO THIS DRAWING IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW ARTICLE 145 SECTION 7209</p>	 <p>ONONDAGA COUNTY</p>
 <p>MAXIAN + HORST Landscape Architects + LandPlanners, PLLC, WBE.</p> <p>300 Hawley Avenue Syracuse, NY 13203 P: 315.472.0731 www.maxianhorst.com</p>			

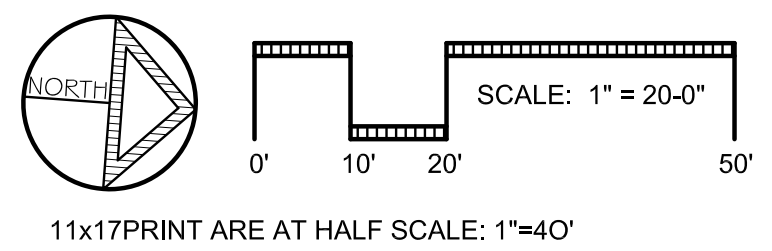
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PLANT SCHEDULE: TREES - ACKERMAN

SYM.	QTY.	BOTANICAL NAME	COMMON NAME	SIZE	COMMENTS
DECIDUOUS TREES					
Ac	2	Cataegus inermis	Thornless Hawthorn	2.5'	Tree Form B4B
Af	2	Acer campestri	Hedge Maple	2.5'	B4B
Gd	1	Gymnocladus dioica	Kentucky Coffee Tree	2.5'	B4B
Mc	3	Malus centurion	Centurion Crabapple	2.5'	B4B
Pa	1	Quercus bicolor	Swamp White Oak	2.5'	B4B
Sg	1	Syringa reticulata	Japanese Lilac Tree	2.5'	Tree Form B4B

NOTE: ALL TREES TO BE PLANTED AT THE PROPER DEPTH AND SO AS NOT TO OBSTRUCT THE FLOW OF WATER IN SWALES



NO. DATE BY REVISION



ONONDAGA COUNTY



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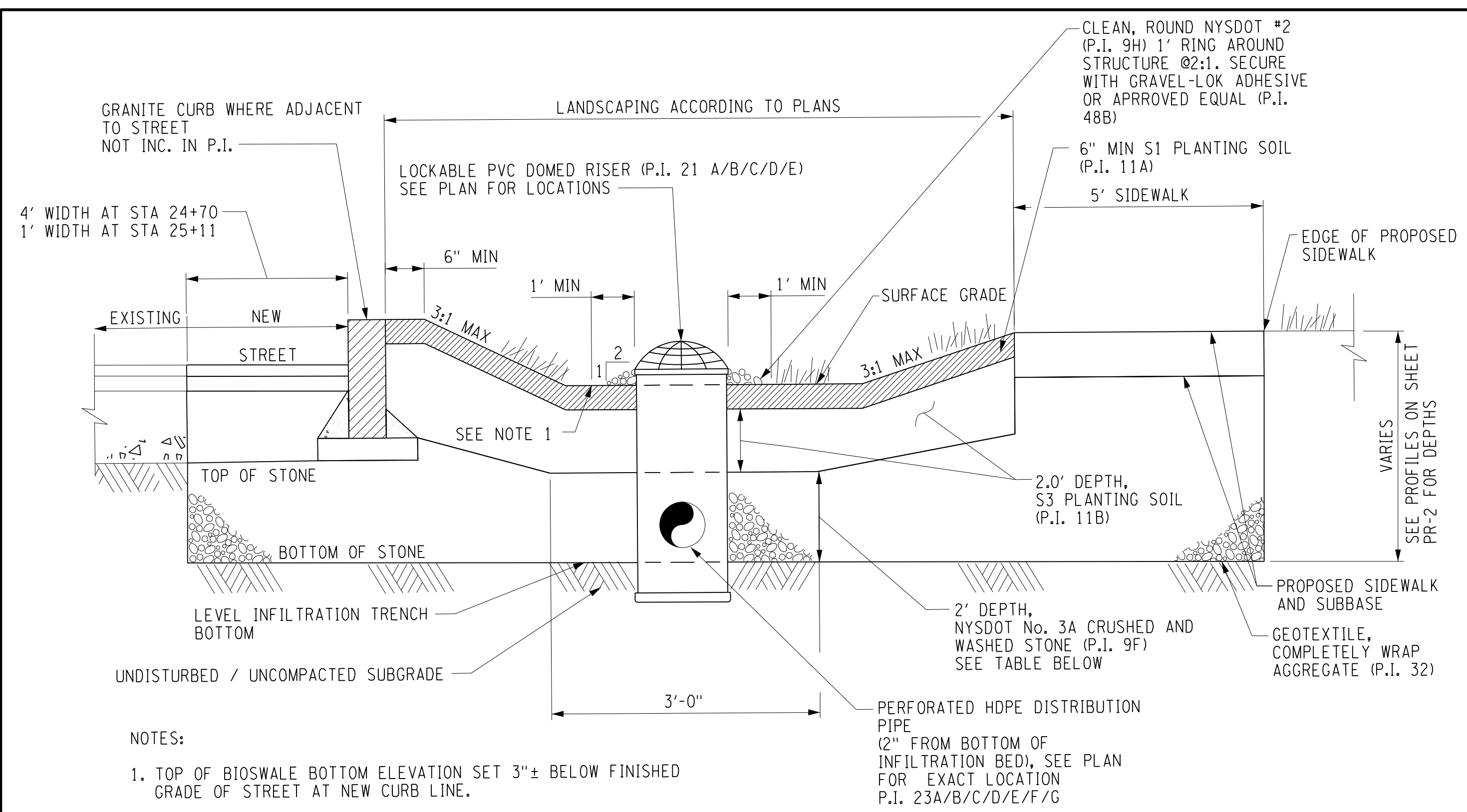
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GREEN INFRASTRUCTURE IMPROVEMENTS
ONONDAGA COUNTY DEPARTMENT OF
WATER ENVIRONMENT PROTECTION
CITY OF SYRACUSE
ONONDAGA COUNTY

ACKERMAN
PLANTING PLAN

SCALE: AS NOTED
DATE ISSUED: 02/2017
DRAWING
APP-4

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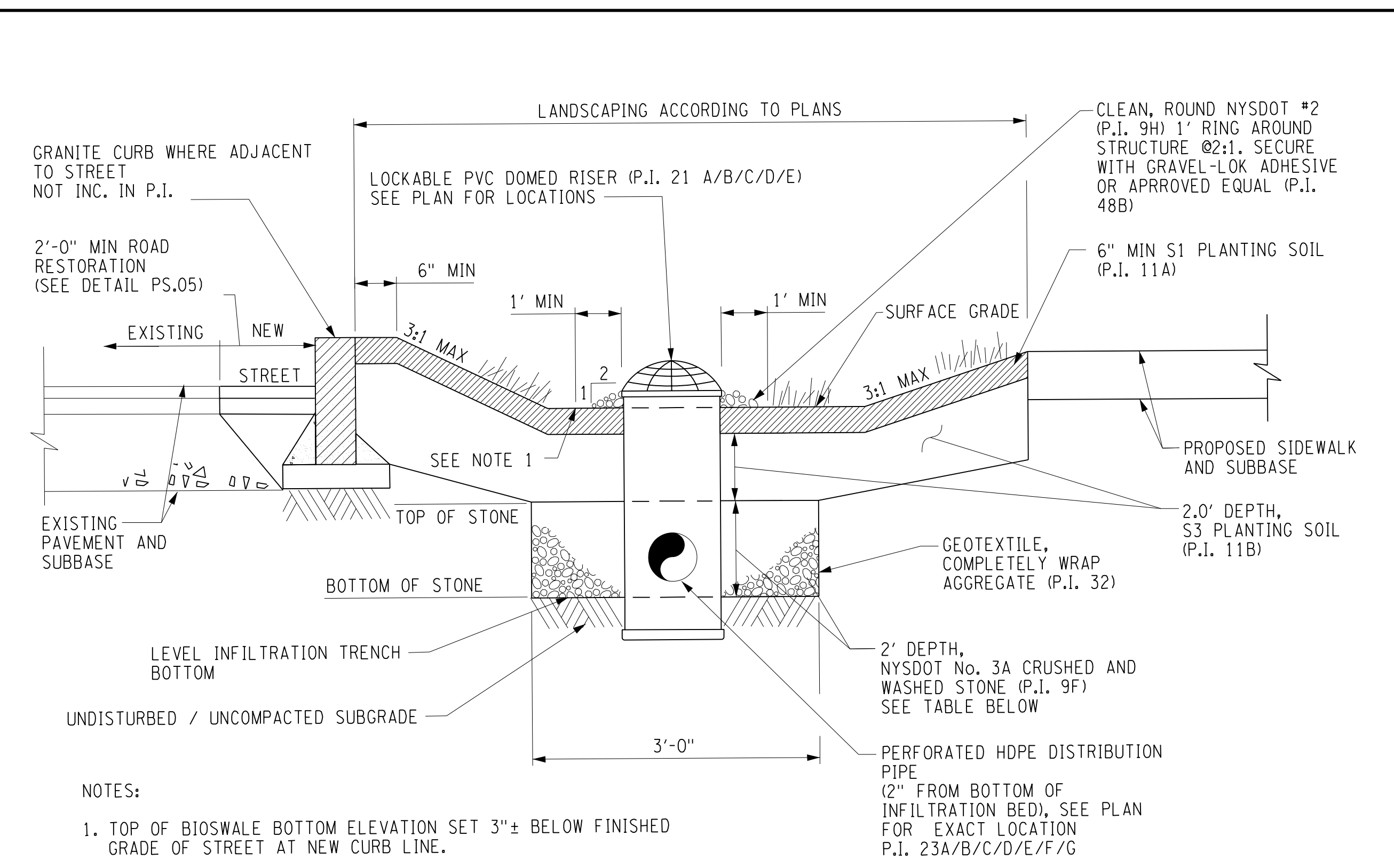
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 DESIGNED BY KAW
 CHECKED BY MCB
 DRAFTED BY PJZ
 CHECKED BY KAW



NOTES:

1. TOP OF BIOSWALE BOTTOM ELEVATION SET 3"± BELOW FINISHED GRADE OF STREET AT NEW CURB LINE.

VEGETATED INFILTRATION TRENCH WITH SIDEWALK AND ROADWAY EXTENSION



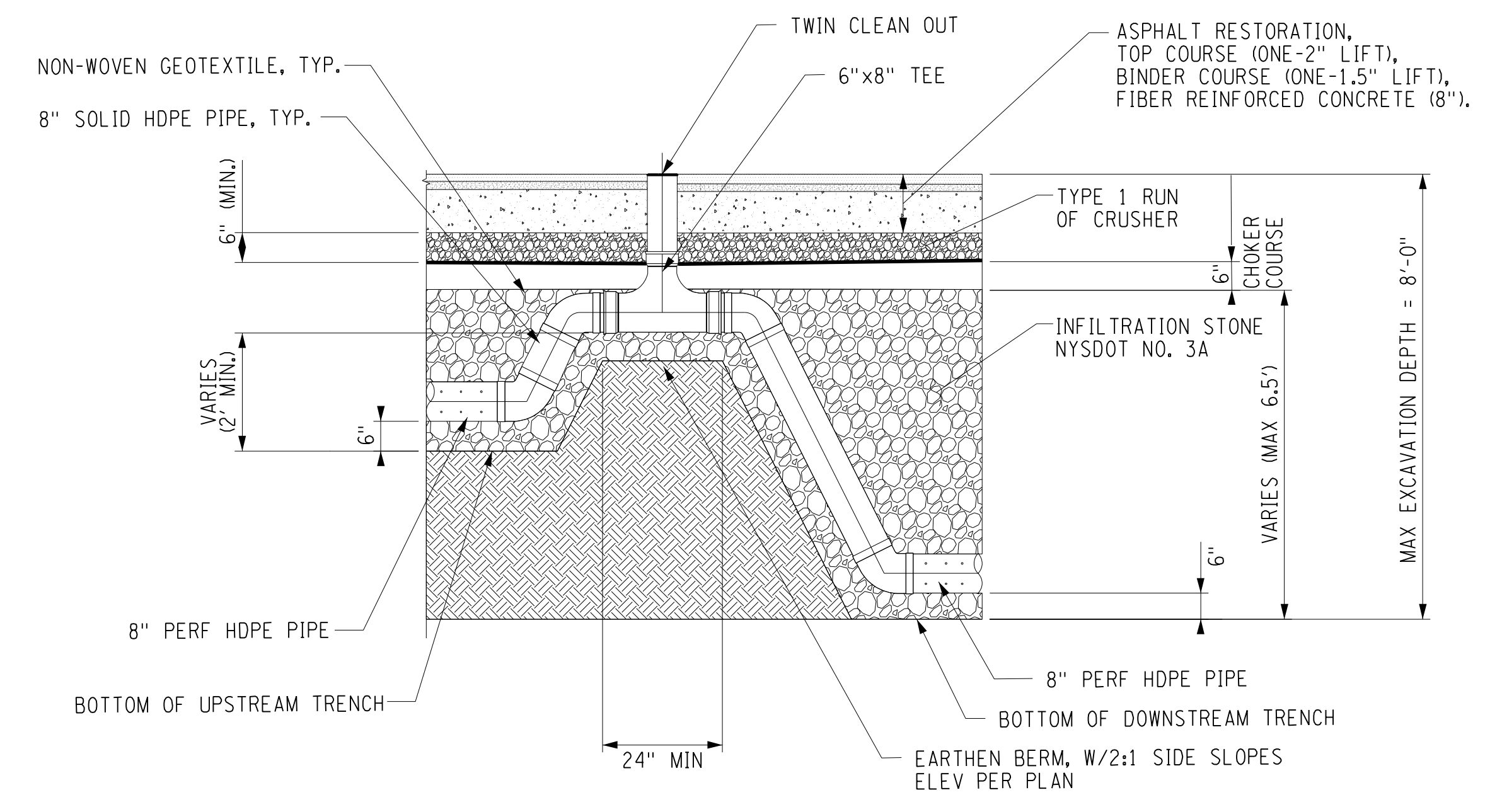
NOTES:

1. TOP OF BIOSWALE BOTTOM ELEVATION SET 3"± BELOW FINISHED GRADE OF STREET AT NEW CURB LINE.

VEGETATED INFILTRATION TRENCH
NTS

Ackerman Vegetative Infiltration Area Elevations								
Start Station	Start Offset	End Station	End Offset	Side	Surface Grade EL	Top of Stone EL	Bottom of Stone EL	Pipe Invert EL
A 24+70	37'	A 24+70	90'	LT	550.70	548.21	546.21	546.71
A 24+70	65'	A 24+70	50'	RT	551.62	549.12	547.12	547.62
A 24+70	45'	A 24+70	36'	RT	551.08	548.58	546.58	547.08
A 25+11	92'	A 25+11	80'	RT	551.70	549.20	547.20	547.70
A 25+11	74'	A 25+11	50'	RT	551.00	548.50	546.50	547.00
A 25+11	44'	A 25+11	35'	RT	550.23	547.73	545.73	546.23

PREPARED BY: BARTON & LOGUIDICE, D.P.C.
 ON: FEBRUARY 24, 2017



TRENCH BERM DETAIL
NTS

NO.	DATE	BY	REVISION



Barton & Loguidice, D.P.C.
 ONONDAGA COUNTY DEPARTMENT OF WATER ENVIRONMENT PROTECTION
 CITY OF SYRACUSE
 ONONDAGA COUNTY

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 ONONDAGA COUNTY DEPARTMENT OF WATER ENVIRONMENT PROTECTION
 CITY OF SYRACUSE
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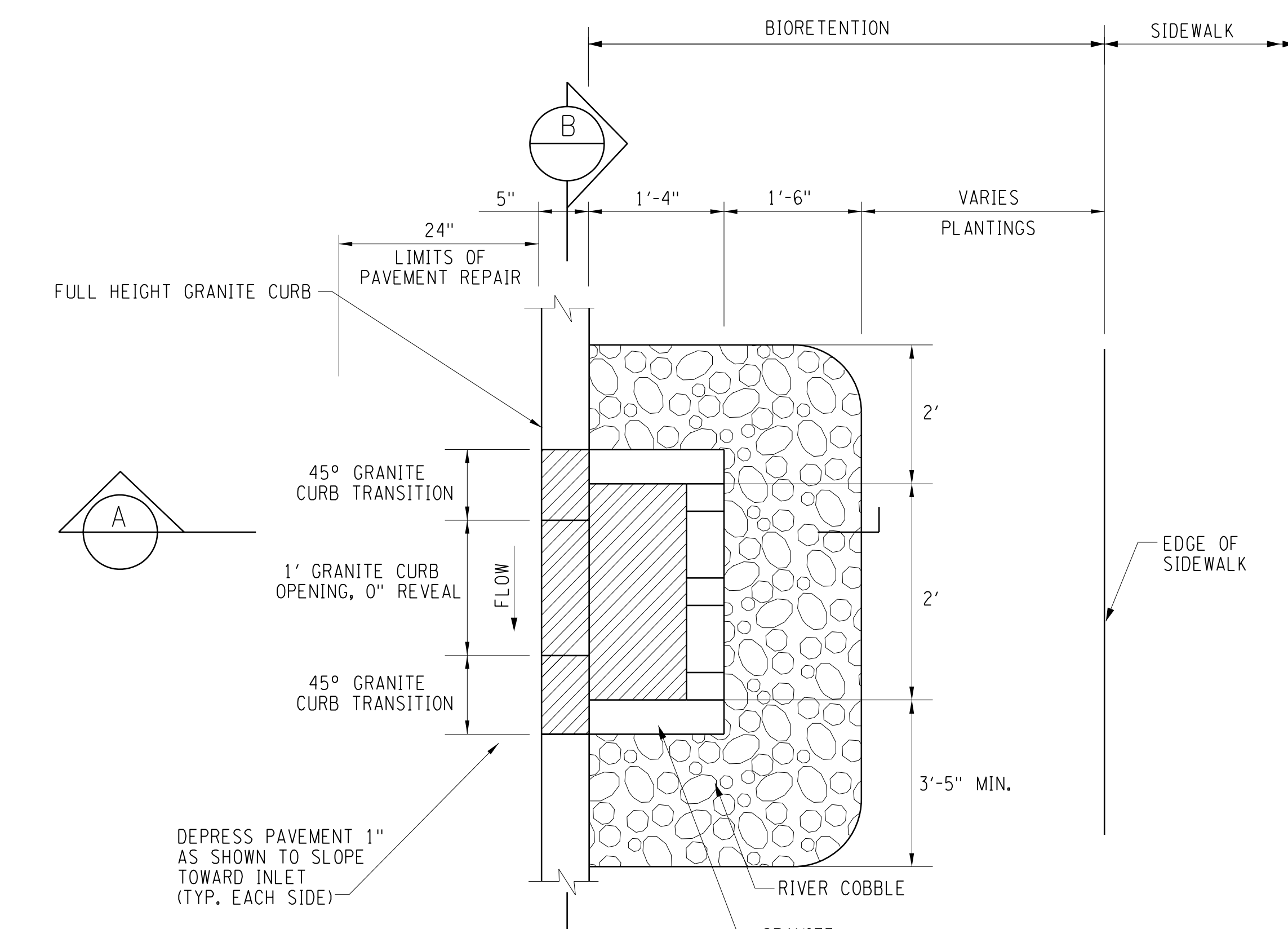
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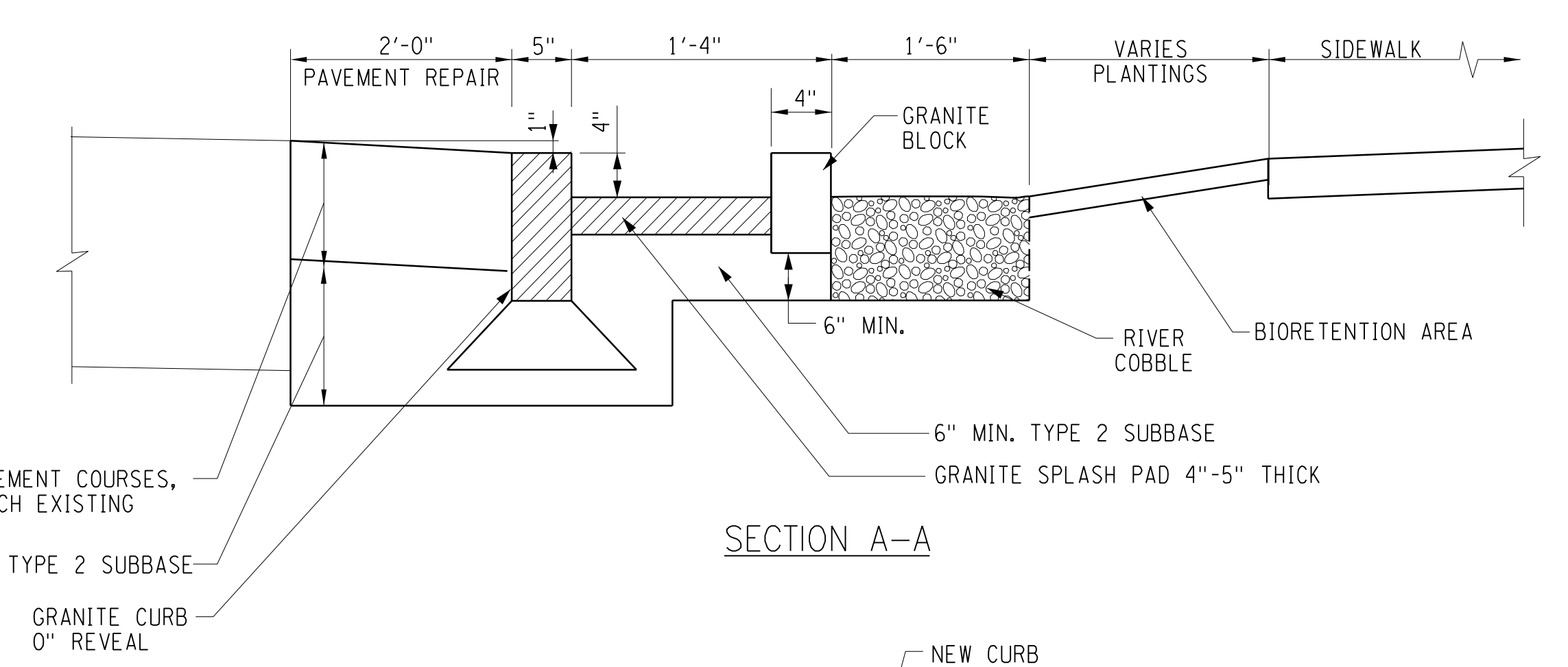
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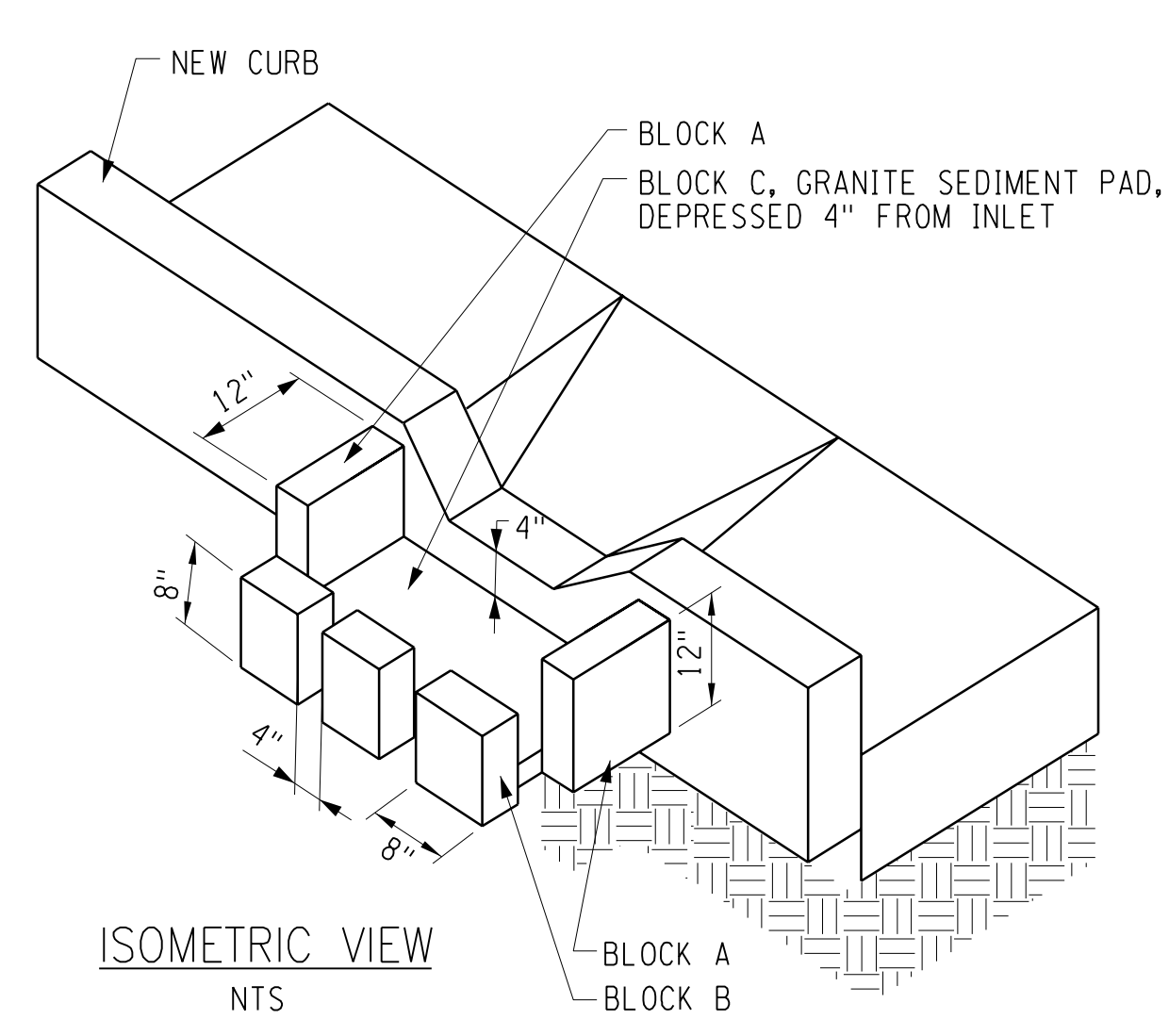
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 DESIGNED BY KAW
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CURB STORMWATER INLET
 NTS

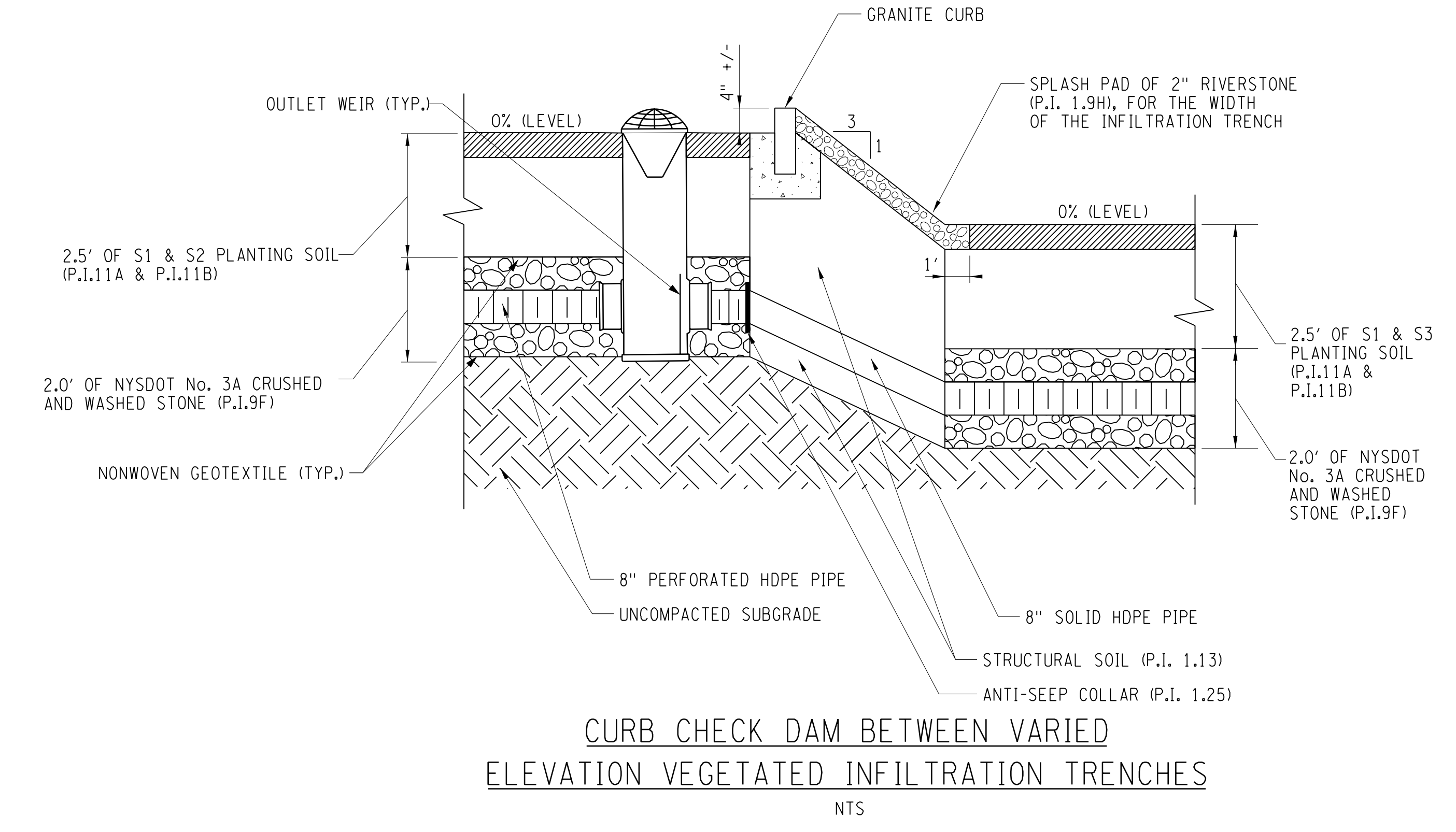


SECTION A-A

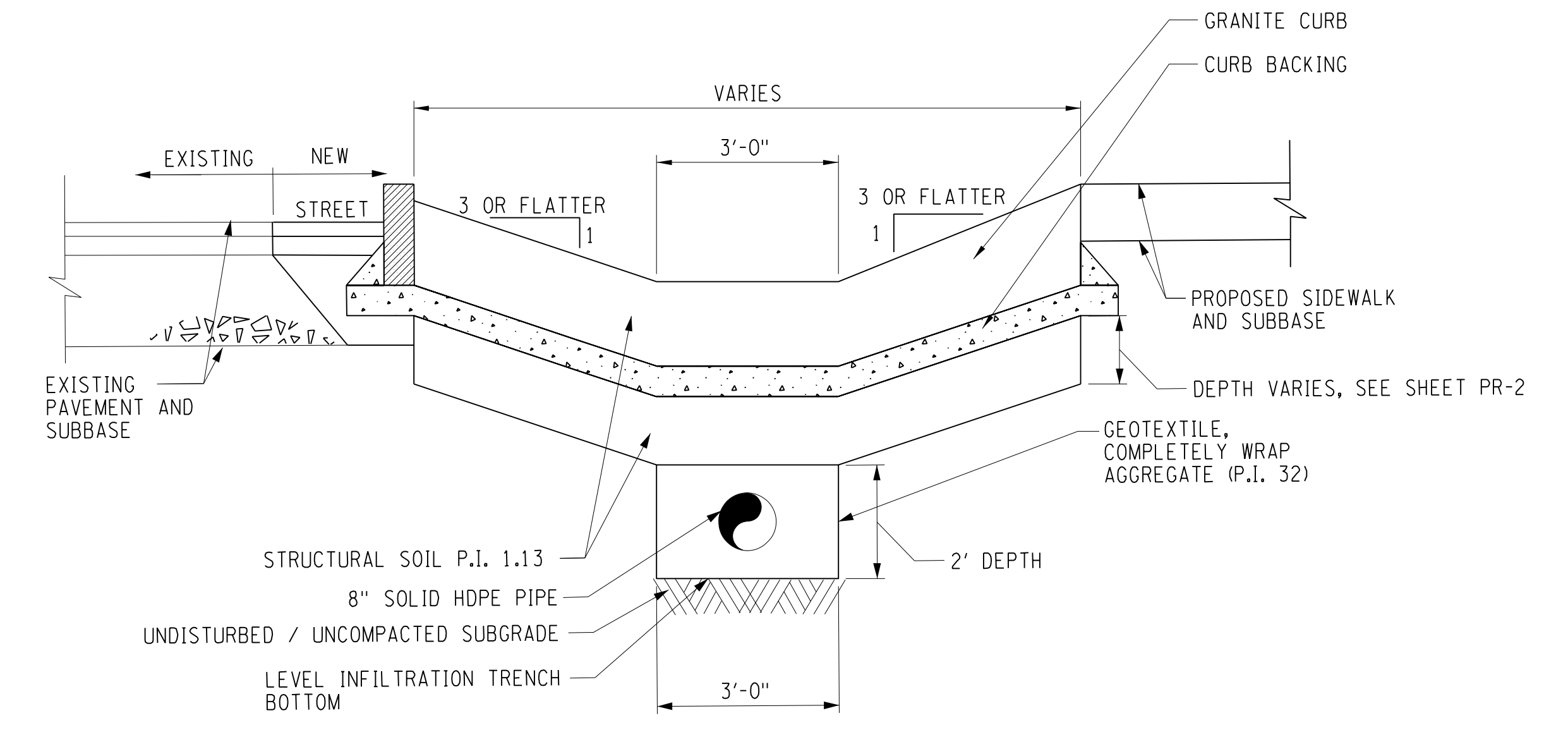


ISOMETRIC VIEW
 NTS

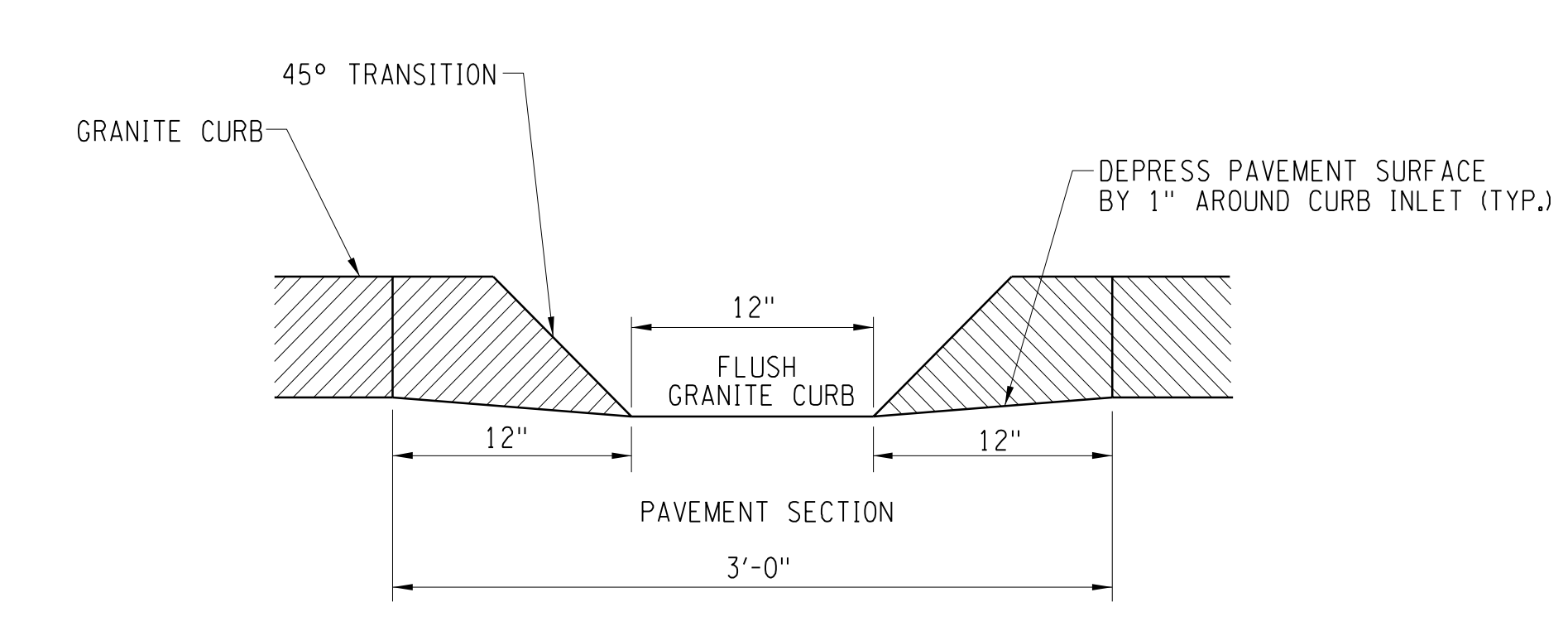
BLOCK A - 12" x 12" x 4"
 BLOCK B - 8" x 8" x 4"
 BLOCK C - 2'-0" x 1'-4" x 4"



CURB CHECK DAM BETWEEN VARIED ELEVATION VEGETATED INFILTRATION TRENCHES
 NTS



CURB CHECK DAM BETWEEN VARIED ELEVATION VEGETATED INFILTRATION TRENCHES
 NTS



SECTION B-B

PREPARED BY: BARTON & LOGUIDICE, D.P.C.
 ON: FEBRUARY 24, 2017



NO.	DATE	BY	REVISION



Barton & Loguidice, D.P.C.
 ONONDAGA COUNTY DEPARTMENT OF WATER ENVIRONMENT PROTECTION
 CITY OF SYRACUSE
 ONONDAGA COUNTY

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 CITY OF SYRACUSE
 ONONDAGA COUNTY

MISCELLANEOUS DETAILS
 SCALE: AS SHOWN
 DATE ISSUED: FEB 2017
 DRAWING MD-2

WORK ZONE TRAFFIC CONTROL NOTES

1. GENERAL

- A. THE CONTRACTOR SHALL MAINTAIN TRAFFIC THROUGHOUT THE LENGTH AND DURATION OF THE CONTRACT IN ACCORDANCE WITH THE WORK TRAFFIC DETAILS IN THE PLANS AND PROPOSAL OR AOB.
- B. FOR TYPICAL APPLICATIONS OF TRAFFIC CONTROL DEVICES IN CONSTRUCTION AREAS NOT SPECIFIED IN THE PROPOSAL, THE PROVISIONS OF THE MUTCD AND THE NEW YORK STATE SUPPLEMENT, ALL APPLICABLE REVISIONS SHALL APPLY. THE STANDARDS OF APPLICATION NOTED THEREIN AND ON THE PROPOSAL ARE TO BE CONSIDERED MINIMAL STANDARDS. WHERE OPTIONS EXIST FOR SIGN SHAPE, THE DIAMOND SHAPE SHALL BE USED.
- C. PRIOR TO ANY WORK ZONE SET-UP THE ENGINEER SHALL DETERMINE THE ACCEPTABILITY OF ALL SIGNS, TRAFFIC CONTROL DEVICES AND WORK ZONE TRAFFIC CONTROL DEVICES.
- D. PROPOSED REVISIONS TO THE TRAFFIC CONTROL PLAN SHALL BE SUBMITTED FOR THE REVIEW AND APPROVAL BY THE REGIONAL TRAFFIC ENGINEER 30 DAYS PRIOR TO THE PLANNED IMPLEMENTATION OF SUCH REVISIONS.
- E. ANY AND ALL WORK RELATED TO WORK ZONE TRAFFIC CONTROL IS CONSIDERED SKILLED AND SPECIALIZED WORK. ALL WORKERS ENGAGED IN WORK ZONE TRAFFIC CONTROL WORK SHALL HAVE SUFFICIENT EXPERIENCE IN SUCH WORK TO SATISFACTORILY PERFORM IT. IDENTIFICATION OF EACH WORKER, ALONG WITH DOCUMENTATION OF EXPERIENCE, SHALL BE PROVIDED TO THE ENGINEER PRIOR TO THE WORKER ENGAGING IN WORK ZONE TRAFFIC CONTROL WORK THE TRAFFIC CONTROL SUPERVISOR SHALL BE IN COMPLIANCE ACCORDING TO SECTION 619.3.20 OF THE NYS DOT STANDARD SPECIFICATION. DETERMINATION OF COMPETENCY AND DISCHARGING OF INDIVIDUALS SHALL BE AS PER SECTION 105-02 OF THE NYS DOT STANDARD SPECIFICATION.
- F. THE CONTRACTOR'S ATTENTION IS DIRECTED TO THE FACT THAT THESE HIGHWAYS WILL BE DESIGNATED AS RESTRICTED UNDER THIS CONTRACT.

2. LANE CLOSURES

- A. THE CONTRACTOR SHALL SCHEDULE WORK SO THAT ALL TRAVEL LANES IN EACH DIRECTION ARE OPEN WHEN THE CONTRACTOR'S OPERATIONS ARE CLOSED DOWN OR SUBSTANTIALLY CLOSED DOWN. THE MINIMUM WIDTH OF A TRAVEL LANE SHALL BE 10.0 FT UNLESS OTHERWISE SHOWN IN THE PLANS OR PROPOSAL.
- B. IF, IN THE OPINION OF THE ENGINEER LANE CLOSURES ARE CREATING SIGNIFICANT DELAYS TO TRAFFIC OR ARE CREATING A SAFETY CONCERN DUE TO SLOWED OR STOPPED TRAFFIC, AFFECTED LANE CLOSURES SHALL BE REMOVED AND THE ROADWAY OPENED TO TRAFFIC AS DIRECTED BY THE ENGINEER.

3. WORK AREA COORDINATION

- A. WHEN TWO OR MORE WORK AREAS ARE ADJACENT, OVERLAP, OR ARE IN CLOSE PROXIMITY AS DETERMINED BY THE ENGINEER, THE CONTRACTOR SHALL COORDINATE ALL CONTRACT WORK WITH ANY, UTILITY WORK, SUBCONTRACTOR WORK, PUBLIC MAINTENANCE OPERATIONS OR OTHER CONSTRUCTION ACTIVITIES IN THE AREA TO ENSURE THAT THERE ARE NO WORK ZONE TRAFFIC CONTROL CONFLICTS, SIGNING AND LANE CONTINUITY, AND THAT WORK ZONE TRAFFIC CONTROL IS PER STANDARDS.
- B. ALL VEHICLES, EQUIPMENT, WORKERS AND ACTIVITIES SHALL BE RESTRICTED TO ONE SIDE OF THE ROADWAY AT A TIME, UNLESS OTHERWISE SHOWN IN THE PLANS OR PROPOSAL.
- C. THE CONTRACTOR SHALL COORDINATE ALL CONTRACT WORK WITH ANY ADJACENT PROJECTS TO ENSURE THERE ARE NO WORK ZONE TRAFFIC CONTROL CONFLICTS, SIGNING AND LANE CONTINUITY, AND THAT WORKZONE TRAFFIC CONTROL IS PER STANDARDS.

4. CONES, DRUMS, BARRICADES AND MARKERS

- A. ALL CHANNELIZING DEVICES ARE TO BE PLACED SO AS TO PROVIDE A MINIMUM OF 2.0 FT MIN. CLEARANCE TO THE TRAVELED WAY UNLESS OTHERWISE SHOWN ON THE PLANS. WHERE POSSIBLE ALATERAL BUFFER SPACE OF 2.0 FT MIN. SHOULD BE PROVIDED BETWEEN THE WORK SPACE AND THE LINE OF DELINEATION DEVICES.
- B. LONGITUDINAL SPACING SHALL BE 40 FT FOR POSTED SPEED LIMITS OVER 40 MPH AND 20 FT FOR SPEED LIMITS 40 MPH AND UNDER. THROUGHOUT THE WORK ZONE, REDUCED SPACING MAY BE REQUIRED AS SHOWN IN THE PLANS, SPECIFICATIONS OR AOB. INTERSECTIONS AND DRIVEWAYS SHALL BE CHANNELIZED AT 5.0 FT SPACING.
- C. DRUMS OR VERTICAL PANELS (8" x 36" OR 12" x 24") SHALL BE USED DURING THE HOURS OF DARKNESS. "TYPE B" LIGHTS SHALL BE REQUIRED ON THE FIRST DEVICE AND ON THE FIRST DEVICE AFTER EACH INTERSECTION.

5. SIGNS

- A. BLANK COVERS USED TO COVER PORTIONS OF EXISTING SIGNS SHALL BE OF A COLOR AND REFLECTORIZED MATERIAL MATCHING THAT OF THE SIGN BEING PARTIALLY COVERED.
- B. WHERE SHOULDER WIDTHS ARE LIMITED AND SIGNS CAN NOT BE ERECTED BEYOND THE SHOULDER, TEMPORARY SIGNS MAY NEED TO BE MOUNTED ON CONCRETE MEDIAN BARRIER OR BRIDGE PARAPETS, ETC.. PRIOR TO ERECTING THOSE SIGNS THE CONTRACTOR SHALL PROVIDE MOUNTING DETAILS TO AND RECEIVE APPROVAL FROM THE ENGINEER. SIGNS SHALL NOT ENCRACH MORE THAN 4" INTO SHOULDERS USED BY PEDESTRIANS OR BICYCLES.
- C. SIGNS SHALL BE MOUNTED AS SHOWN IN CHAPTER 6F OF THE MUTCD AND THE NEW YORK STATE SUPPLEMENT.

6. BUMPS

- A. THE CONTRACTOR SHALL TAKE ALL ACTION AS DIRECTED BY THE ENGINEER, TO ELIMINATE BUMPS, WHICH ARE DEFINED AS, A PAVEMENT CONDITION CONSIDERED BY THE ENGINEER TO BE SUFFICIENTLY ABRUPT ENOUGH TO CAUSE CONSIDERABLE DISCOMFORT, CARGO SHIFTING, OR DEFLECTION OF A VEHICLE FROM ITS TRUE COURSE AT PREVAILING DRIVING SPEEDS. ONLY WHEN IT IS NOT POSSIBLE OR FEASIBLE IN THE OPINION OF THE ENGINEER TO ELIMINATE A BUMP, SHALL A BUMP BE ALLOWED TO REMAIN.
- B. BUMPS SHALL BE RAMPED AT A MINIMUM RATE OF, SPEED LIMIT HORIZONTAL TO 1 VERTICAL, (IE; 55 HORIZONTAL TO 1 VERTICAL FOR 55 MPH).
- C. WB-1 BUMP SIGNS SHALL BE PLACED ON ALL APPROACHES TO A BUMP OR DIP CAUSED BY CONSTRUCTION OPERATIONS (IE: ROAD PLATES, MILLED PAVEMENT TERMINATION, ETC..) PER TABLE NY2C-4. NUMEROUS BUMPS OR DIPS SHALL WARRANT THE USE OF WB-8 "ROUGH ROAD" SIGNS INSTEAD OF THE WB-1 SIGN. WB-1 SIGNS SHALL BE SUPPLEMENTED WITH W16-4 "NEXT XXX FEET" PANELS AND POSTED ON THE MAINLINE IN ADVANCE OF THE CONDITION AND REPEATED AT EACH INTERSECTION.
- D. AN OM1-3 MARKER SHALL BE LOCATED RIGHT AT OR IMMEDIATELY IN ADVANCE OF THE BUMP AND SHALL BE USED IN CONJUNCTION WITH THE WB-1 SIGN, AND EQUIPPED WITH A "TYPE B" WARNING LIGHT.

7. PUBLIC INGRESS AND EGRESS

- A. THE CONTRACTOR SHALL PROVIDE PROPERTY OWNERS WITH PROPER ACCESS AS SHOWN IN THE PLANS AND AOB, TO THEIR DRIVEWAYS AND SHALL MAINTAIN THEM THROUGH ALL PHASE WORK AREAS AND SHALL DELINEATE THEM BY MEANS OF SIGNS AND CHANNELIZING DEVICES AOB.
- B. WHERE DIRECT ACCESS TO DRIVEWAYS IS NOT POSSIBLE DUE TO NECESSARY CONSTRUCTION OPERATIONS, THE CONTRACTOR SHALL PLAN ALTERNATE MEANS OF ACCESS AND SUBMIT SUCH PLANS TO THE ENGINEER FOR APPROVAL. PROPERTY OWNERS/OCCUPANTS SHALL HAVE 24 HOUR NOTICE OF ANY CHANGES.
- C. WHEN A SIDE ROAD OR DRIVEWAY INTERSECTS THE HIGHWAY WITHIN THE TEMPORARY TRAFFIC CONTROL ZONE, ADDITIONAL TRAFFIC CONTROL DEVICES SHALL BE ERECTED AND FLAGGERS POSTED AT APPROPRIATE LOCATIONS OR AOB.

8. CONSTRUCTION INGRESS AND EGRESS

- A. VEHICLES, MATERIALS AND/OR EQUIPMENT, INCLUDING OUT OF SERVICE SIGNS, SHALL NOT BE PARKED OR STORED WITHIN 30 FT OF A ROADWAY USED BY THE GENERAL PUBLIC, OR ANY OTHER TRAVERSABLE AREAS IN WHICH AN ERRANT VEHICLE MAY STRIKE THE OBJECT.

9. EMERGENCY ACCESS

- A. DURING WORK OPERATIONS ON OR NEAR SIDE ROADS AND DRIVEWAYS, THE CONTRACTOR SHALL MAINTAIN ACCESS TO THOSE SIDE ROADS AND DRIVEWAYS FOR EMERGENCY VEHICLES, AOB. EVEN WHEN THE FACILITY IS CLOSED TO NORMAL TRAFFIC.

10. PAVEMENT MARKINGS

- A. THE CONTRACTOR SHALL PROVIDE PAVEMENT MARKINGS AT ALL TIMES, ON ALL PAVEMENT, WHETHER EXISTING, TEMPORARY OR NEW, UNTIL PERMANENT MARKINGS ARE INSTALLED OR RESTORED. THIS SHALL INCLUDE AT ALL LOCATIONS, EDGE LINES, CENTERLINE, LANE LINES (SOLID OR BROKEN), CHANNELIZING LINES, DOTTED LINES, PLUS ANY MARKINGS ORDERED BY THE ENGINEER. ALL MARKINGS SHALL BE APPLIED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS AND THE MUTCD AND NEW YORK STATE SUPPLEMENT AND SHALL INDICATE ACTUAL CONDITIONS AT ALL TIMES. THESE MARKINGS SHALL BE PAID FOR AS SHOWN IN THE CONTRACT PLANS.
- B. TEMPORARY OR INTERIM PAVEMENT MARKINGS COMPRISED OF TRAFFIC MARKING PAINT SHALL BE REPAINTED AT NO ADDITIONAL COST, WHEN 10% OF THE UNDERLYING PAVEMENT IS VISIBLE THROUGH THE PAVEMENT MARKING OR WHEN THE ENGINEER DEEMS REFLECTIVITY IS INADEQUATE.

11. PEDESTRIANS

- A. WHERE WALKWAYS EXIST AND PEDESTRIANS CAN BE SAFELY MAINTAINED ON THEM, THEN PEDESTRIAN TRAFFIC SHALL BE MAINTAINED ON THEM.
- B. IF THE PEDESTRIAN WALKWAY IS LESS THAN 5.0 FT WIDE AND OVER 200 FT IN LENGTH THE CONTRACTOR SHALL FURNISH A 5.0 FT AREA WHERE WHEELCHAIRS CAN PASS EVERY 200 FT. THESE WALKWAYS SHALL BE A MINIMUM OF 4.0 FT, UNLESS OTHERWISE SHOWN ON THE PLANS.
- C. FOR INSTANCES OF VERY SHORT SHOULDER CLOSURES AND LOW VEHICLE AND OR PEDESTRIAN VOLUMES, IN LIEU OF IMPLEMENTING THE CHANNELIZED PEDESTRIAN WALKWAY AS SHOWN ON THE PLANS, A FLAGGER CAN BE POSTED AT THE BEGINNING OF THE SHOULDER CLOSURE. THE FLAGGER SHALL STOP ALL APPROACHING TRAFFIC AND KEEP SUCH TRAFFIC STOPPED TO ALLOW PEDESTRIANS TO PASS THE WORK AREA, ANOTHER FLAGGER WOULD BE POSTED TO ASSIST THE PEDESTRIANS IN THE TRAVERSING OF THE WORK ZONE. WHERE THE LENGTH OF THE SHOULDER CLOSURE, VOLUME OF PEDESTRIAN TRAFFIC, THE VOLUME OF VEHICULAR TRAFFIC OR OTHER FACTORS RENDER THIS TREATMENT INEFFECTIVE, AS DETERMINED BY THE ENGINEER, THE CHANNELIZED PEDESTRIAN WALKWAY SHALL BE IMPLEMENTED.

11. PEDESTRIANS CONTINUED

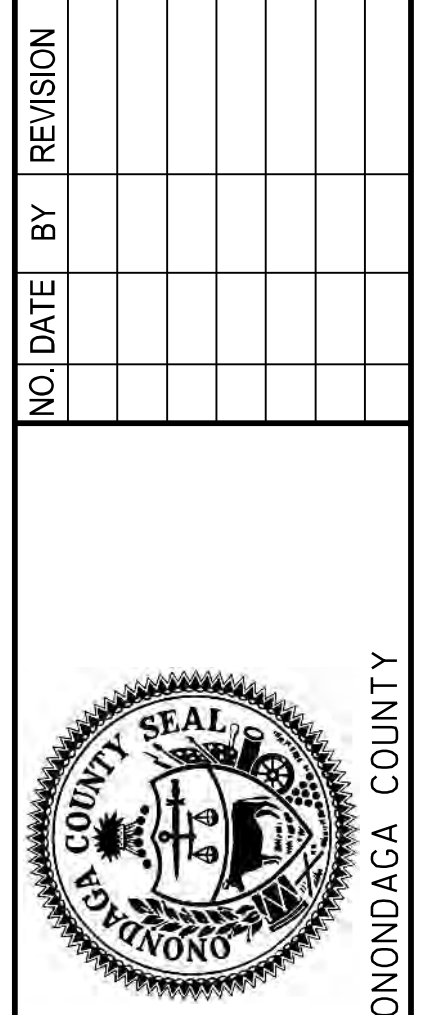
- D. WHERE IT IS DETERMINED BY THE ENGINEER THAT THERE IS A LIKELYHOOD OF PEDESTRIANS LEAVING THE DEDICATED WALKWAY TO CROSS THE ACTIVE LANE OF TRAFFIC, THE CHANNELIZING DEVICES SHALL BE SUPPLEMENTED WITH A R9-3a "NO PEDESTRIAN CROSSING SYMBOL" SIGN TO RESTRICT THE PEDESTRIAN MOVEMENT.

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IN CHARGE OF JPD DESIGNED BY KAW CHECKED BY MCB DRAFTED BY PJZ CHECKED BY KAW

PREPARED BY: BARTON & LOGUIDICE, D.P.C.
ON: FEBRUARY 24, 2017



ONONDAGA COUNTY
GREEN INFRASTRUCTURE IMPROVEMENTS

ONONDAGA COUNTY DEPARTMENT OF
WATER ENVIRONMENT PROTECTION

CITY OF SYRACUSE
ONONDAGA COUNTY

WORK ZONE
TRAFFIC CONTROL
NOTES

SCALE: AS SHOWN

DATE ISSUED: FEB 2017

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WZTC-1

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CLOSURE TYPE	EXPOSURE CONDITION ¹	USE REQUIREMENTS ^{4,5}			
		FREEWAY	NON-FREEWAY (PRECONSTRUCTION POSTED SPEED LIMIT)		
			≥ 45 MPH	35-40 MPH	≤ 30 MPH
LANE CLOSURE	WORKERS ON FOOT OR IN VEHICLES EXPOSED TO TRAFFIC	REQUIRED ³	REQUIRED ³	REQUIRED ³	OPTIONAL ²
	NON-TRAVERSABLE HAZARD (IE. EQUIPMENT, MATERIALS, EXCAVATION) ONLY NO WORKERS EXPOSED	REQUIRED ³	REQUIRED ³	OPTIONAL ²	OPTIONAL ²
SHOULDER CLOSURE	WORKERS ON FOOT OR IN VEHICLES EXPOSED TO TRAFFIC	REQUIRED ³	REQUIRED ³	OPTIONAL ²	OPTIONAL ²
	NON-TRAVERSABLE HAZARD (IE. EQUIPMENT, MATERIALS, EXCAVATION) ONLY NO WORKERS EXPOSED	REQUIRED ³	OPTIONAL ²	OPTIONAL ²	OPTIONAL ²

1. THE EXPOSURE CONDITIONS DESCRIBED IN TABLE NY1-A ASSUMES THERE IS NO POSITIVE PROTECTION (TEMPORARY TRAFFIC BARRIER) PRESENT. WHERE WORKERS OR HAZARDS ARE PROTECTED BY A TEMPORARY TRAFFIC BARRIER, BARRIER VEHICLES ARE NOT REQUIRED.
2. WHERE THE REQUIREMENT IS "OPTIONAL", EITHER A BARRIER VEHICLE OR THE STANDARD LONGITUDINAL BUFFER SPACE (TABLE 6C-2) SHALL BE PROVIDED.
3. REQUIREMENTS SHALL INCLUDE PROVIDING A SEPARATE BARRIER VEHICLE FOR EACH CLOSED LANE AND EACH CLOSED PAVED SHOULDER 8' OR GREATER IN WIDTH. IF THE WORK SPACE MOVES WITHIN THE STATIONARY CLOSURE, THE BARRIER VEHICLE SHALL BE REPOSITIONED ACCORDINGLY. BARRIER VEHICLES PROTECTING NON-TRAVERSABLE HAZARDS SHALL REMAIN IN PLACE DURING BOTH WORKING AND NON-WORKING HOURS UNTIL THE HAZARD NO LONGER EXISTS. EXCEPTIONS TO THESE REQUIREMENTS MAY BE MADE, AS APPROVED BY THE REGIONAL DIRECTOR OR HIS/HER DESIGNEE WHERE BARRIER VEHICLE PLACEMENT WOULD BE INEFFECTIVE OR WOULD INTERFERE WITH THE SAFE OPERATION OF TRAFFIC.
4. BARRIER VEHICLES ARE NOT REQUIRED FOR MILLING AND/OR PAVING OPERATIONS, BUT THE STANDARD LONGITUDINAL BUFFER SPACE (TABLE 6C-2) SHALL BE PROVIDED.
5. BARRIER VEHICLES ARE NOT REQUIRED FOR FLAGGING OPERATIONS, BUT THE STANDARD LONGITUDINAL BUFFER SPACE (TABLE 6C-2) SHALL BE PROVIDED.

CLOSURE TYPE	EXPOSURE CONDITION	USE REQUIREMENTS			
		FREEWAY	NON-FREEWAY (PRECONSTRUCTION POSTED SPEED LIMIT)		
			≥ 45 MPH	35-40 MPH	≤ 30 MPH
LANE CLOSURE	WHEN ANY WORKER, VEHICLE, OR OTHER HAZARD IS EXPOSED TO TRAFFIC	REQUIRED ^{2,4}	REQUIRED ^{2,4}	REQUIRED ^{2,4}	REQUIRED ^{2,4}
SHOULDER CLOSURE	WHEN ANY WORKER, VEHICLE, OR OTHER HAZARD IS EXPOSED TO TRAFFIC	REQUIRED ^{2,4}	REQUIRED ^{2,4}	REQUIRED ^{2,4}	REQUIRED ^{2,4}

1. A MOBILE CLOSURE SHALL BE USED FOR ANY WORK ACTIVITY THAT MOVES CONTINUOUSLY OR INTERMITTENTLY ALONG THE TRAVELED WAY OR SHOULDER SLOWER THAN THE PREVAILING SPEED OF TRAFFIC. CHANNELIZING DEVICES ARE NOT USED FOR MOBILE CLOSURES.
2. SHADOW VEHICLES SHALL BE EQUIPPED WITH AN APPROVED REAR MOUNTED ATTENUATOR (TRUCK MOUNTED OR TRAILER MOUNTED) FOR THE FOLLOWING MOBILE CLOSURES: LANE CLOSURES ON FREEWAYS, LANE CLOSURES ON NON-FREEWAY ROADWAYS HAVING A PRE-CONSTRUCTION POSTED SPEED LIMIT OF 35 MPH OR MORE, SHOULDER CLOSURES ON FREEWAYS, AND SHOULDER CLOSURES ON NON-FREEWAY ROADWAYS HAVING A PRE-CONSTRUCTION SPEED LIMIT OF 45 MPH OR MORE.
3. FOR MOBILE LANE CLOSURES ON NON-FREEWAY ROADWAYS HAVING A PRE-CONSTRUCTION POSTED SPEED LIMIT OF 30 MPH OR LESS AND MOBILE SHOULDER CLOSURES ON NON-FREEWAY ROADWAYS HAVING A PRE-CONSTRUCTION SPEED LIMIT OF 40 MPH OR LESS, SHADOW VEHICLES ARE NOT REQUIRED TO BE EQUIPPED WITH A REAR MOUNTED ATTENUATOR.
4. A SHADOW VEHICLE IS USED TO PROTECT EXPOSED WORKERS (ON FOOT OR IN A VEHICLE) AND SHALL BE REQUIRED FOR ALL MOBILE CLOSURES. SHADOW VEHICLE REQUIREMENTS SHALL INCLUDE PROVIDING A SEPARATE SHADOW VEHICLE FOR EACH CLOSED LANE AND EACH CLOSED PAVED SHOULDER 8' OR GREATER IN WIDTH.

PREPARED BY: BARTON & LOGUIDICE, D.P.C.
 ON: FEBRUARY 24, 2017



SPEED LIMIT (S) (MPH)	TAPER LENGTH (L) (FT.)
(40 MPH) OR LESS	$L = WS^2 / 60$
(45 MPH) OR MORE	$L = WS$

L = TAPER LENGTH
 W = WIDTH OF OFFSET (FT.)
 S = PRECONSTRUCTION POSTED SPEED LIMIT (MPH)

LATERAL SHIFT OF TRAFFIC FLOW PATH	TEMPORARY TRAFFIC CONTROL ZONE POSTED SPEED LIMIT									
	(25 MPH)	(30 MPH)	(35 MPH)	(40 MPH)	(45 MPH)	(50 MPH)	(55 MPH)	(60 MPH)	(65 MPH)	(70 MPH)
4	45	60	85	110	180	200	220	240	260	280
5	55	75	105	135	225	250	275	300	325	350
6	65	90	125	160	270	300	330	360	390	420
7	75	105	145	190	315	350	385	420	455	490
8	85	120	165	215	360	400	440	480	520	560
9	95	135	185	240	405	450	495	540	585	630
10	105	150	205	270	450	500	550	600	650	700
11	115	165	225	295	495	550	605	660	715	770
12	125	180	245	320	540	600	660	720	780	840

PRECONSTRUCTION POSTED SPEED LIMIT (MPH)	DISTANCE
25	155 FT.
30	200 FT.
35	250 FT.
40	305 FT.
45	360 FT.
50	425 FT.
55	495 FT.
60	570 FT.
65	645 FT.

PRECONSTRUCTION POSTED SPEED LIMIT (MPH)	PLACEMENT DISTANCE (FT.)			
	BARRIER VEHICLES*			
	(18000 LBS.)		(24000 LBS.)	
	MINIMUM	MAXIMUM	MINIMUM	MAXIMUM
> 55	100 FT.	200 FT.	100 FT.	200 FT.
45 - 55	100 FT.	200 FT.	85 FT.	165 FT.
< 45	85 FT.	165 FT.	50 FT.	100 FT.

* AS DEFINED IN NYS DOT STANDARD SPECIFICATION 619:
 BARRIER VEHICLE - VEHICLE USED FOR STATIONARY SHOULDER CLOSURES, LANE CLOSURES, AND OTHER STATIONARY WORK ZONES.
 MINIMUM DISTANCE SHOWN REFLECTS THE ACTUAL ROLL AHEAD DISTANCE FROM MANUFACTURER.

PRECONSTRUCTION POSTED SPEED LIMIT (MPH)	PLACEMENT DISTANCE (FT.)			
	SHADOW VEHICLES**			
	(18000 LBS.)		(24000 LBS.)	
	MINIMUM	MAXIMUM	MINIMUM	MAXIMUM
> 55	230 FT.	330 FT.	180 FT.	280 FT.
45 - 55	180 FT.	280 FT.	150 FT.	250 FT.
< 45	100 FT.	200 FT.	100 FT.	200 FT.

* AS DEFINED IN NYS DOT STANDARD SPECIFICATION 619:
 SHADOW VEHICLE - VEHICLE USED FOR MOBILE OR SHORT DURATION WORK OPERATIONS.
 MINIMUM DISTANCE SHOWN REFLECTS THE ACTUAL ROLL AHEAD DISTANCE FROM MANUFACTURER.

TYPE OF POSITIVE BARRIER	POSTED SPEED LIMIT				
	30 MPH	40 MPH	50 MPH	55 MPH	65 MPH
TEMPORARY CONCRETE BARRIER	8:1	11:1	14:1	16:1	20:1
BOX BEAM OR HEAVY POST CORRUGATED BEAM	7:1	9:1	11:1	12:1	15:1

ROAD TYPE	DISTANCE BETWEEN SIGNS			SIGN LEGEND	
	A (FT.)	B (FT.)	C (FT.)	XX	YY
URBAN (≤ 30 MPH*)	100	100	100	AHEAD	AHEAD
URBAN (35-40 MPH*)	200	200	200	AHEAD	AHEAD
URBAN (≥ 45 MPH*)	350	350	350	1000 FT.	AHEAD
RURAL	500	500	500	1500 FT.	1000 FT.
EXPRESSWAY / FREEWAY	1000	1500	2640	1 MILE	1/2 MILE

* PRECONSTRUCTION POSTED SPEED LIMIT

URBAN: (MEETS MORE THAN 1 OF THE FOLLOWING CRITERIA) SIDEWALKS, BICYCLE USAGE, CURBING, CLOSED DRAINAGE SYSTEMS, DRIVEWAY DENSITIES GREATER THAN 24 DRIVEWAYS PER MILE, MINOR COMMERCIAL DRIVEWAY DENSITIES OF 10 DRIVEWAYS PER MILE OR GREATER, MAJOR COMMERCIAL DRIVEWAYS, NUMEROUS RIGHT OF WAY CONSTRAINTS, HIGH DENSITY OF CROSS STREETS, 85TH PERCENTILE SPEEDS OF 45 MPH OR LESS.

RURAL: ANY AREA NOT EXHIBITING MORE THAN ONE OF THE ABOVE CHARACTERISTICS.

EXPRESSWAY: DIVIDED HIGHWAYS FOR TRAFFIC WITH FULL OR PARTIAL CONTROL OF ACCESS AND GENERALLY WITH GRADE SEPARATIONS AT MAJOR CROSSROADS.

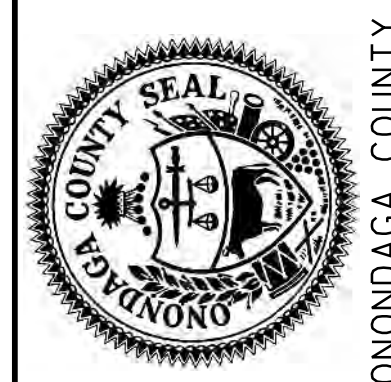
FREEWAYS/INTERSTATE: LOCAL OR INTER REGIONAL HIGH-SPEED, DIVIDED, HIGH-VOLUME FACILITIES WITH FULL OR PARTIAL CONTROL OF ACCESS.

LONG-TERM STATIONARY IS WORK THAT OCCUPIES A LOCATION MORE THAN 3 CONSECUTIVE DAYS.
INTERMEDIATE-TERM STATIONARY IS WORK THAT OCCUPIES A LOCATION MORE THAN ONE DAYLIGHT PERIOD UP TO 3 CONSECUTIVE DAYS, OR NIGHTTIME WORK LASTING MORE THAN 1 HOUR.
SHORT-TERM STATIONARY IS DAYTIME WORK THAT OCCUPIES A LOCATION FOR MORE THAN 1 HOUR WITHIN A SINGLE DAYLIGHT PERIOD.
SHORT DURATION IS WORK THAT OCCUPIES A LOCATION UP TO 1 HOUR.
MOBILE IS WORK THAT MOVES INTERMITTENTLY OR CONTINUOUSLY.

TYPE OF TAPER	TAPER LENGTH (L)
MERGING TAPER	L
SHIFTING TAPER	L/2
SHOULDER TAPER	L/3
ONE-LANE, TWO-WAY TRAFFIC TAPER	100 FT. MAXIMUM
DOWNSTREAM TAPER	100 FT. PER LANE

SYMBOL	DESCRIPTION
	ARROW PANEL
	ARROW PANEL, CAUTION MODE
	ARROW PANEL TRAILER OR SUPPORT
	CHANGEABLE MESSAGE SIGN (Pvms)
	CHANNELIZING DEVICE
	CRASH CUSHION/TEMPORARY IMPACT ATTENUATOR
	DIRECTION OF TEMPORARY TRAFFIC DETOUR
	DIRECTION OF TRAFFIC
	FLAGGER
	FLAG TREE
	LUMINAIRE
	PAVEMENT MARKINGS THAT SHALL BE REMOVED FOR A LONG TERM PROJECT
	SIGN, TEMPORARY
	TEMPORARY BARRIER
	TEMPORARY BARRIER WITH WARNING LIGHTS
	TRAFFIC OR PEDESTRIAN SIGNAL
	TYPE III BARRICADE
	WARNING LIGHTS
	WORK SPACE
	WORK VEHICLE
	WORK VEHICLE WITH TRUCK MOUNTED ATTENUATOR

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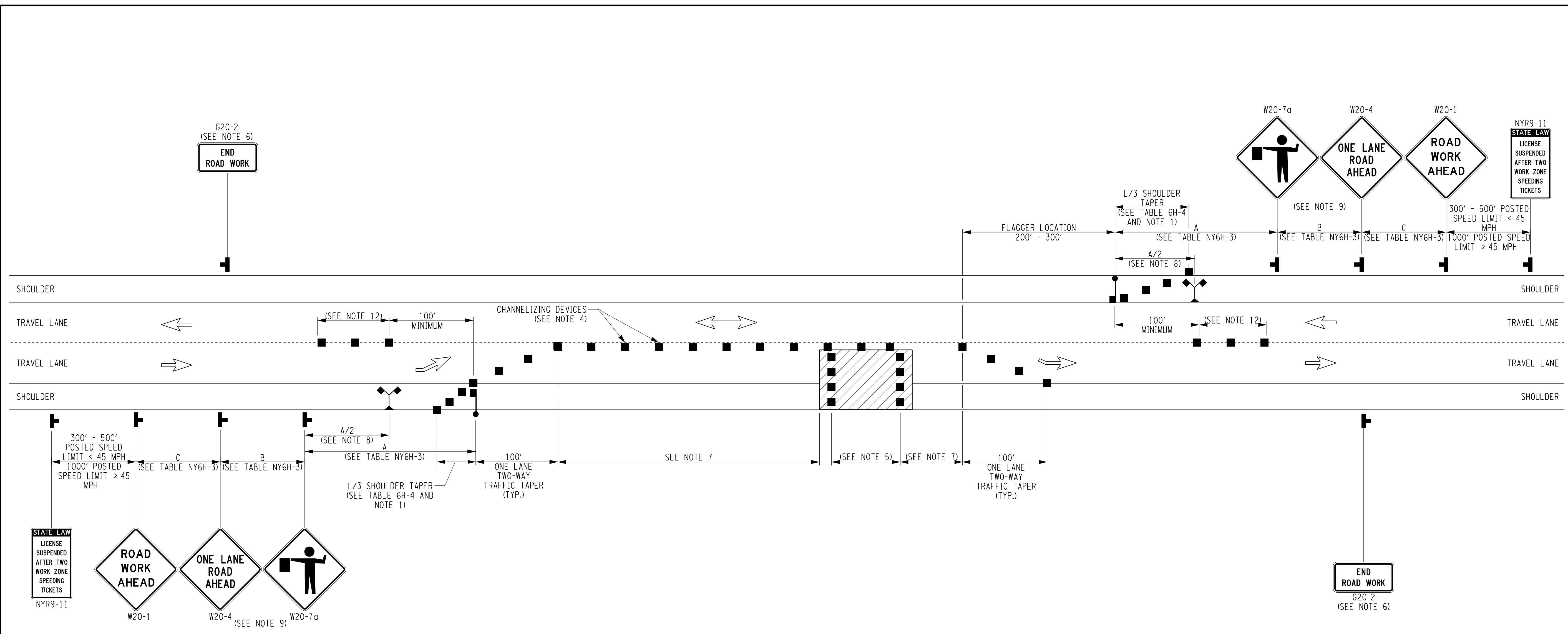
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 CITY OF SYRACUSE
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WORK ZONE TRAFFIC CONTROL TABLES AND SYMBOLS
 SCALE: AS SHOWN
 DATE ISSUED: FEB 2017
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FLAGGING OPERATION
SHORT OR INTERMEDIATE TERM STATIONARY
LANE CLOSURE ON 2-LANE 2-WAY ROADWAY
(NOT TO SCALE)

NOTES:

- WHEN PAVED SHOULDERS HAVING A WIDTH OF 8' OR MORE ARE CLOSED, CHANNELIZING DEVICES SHALL BE USED TO CLOSE THE SHOULDER IN ADVANCE TO DELINEATE THE BEGINNING OF THE WORK AREA AND DIRECT VEHICULAR TRAFFIC TO REMAIN IN THE TRAVEL WAY.
- WHEN A SIDE ROAD OR DRIVEWAY INTERSECTS THE ROADWAY WITHIN A WORK ZONE TRAFFIC CONTROL AREA, ADDITIONAL TEMPORARY TRAFFIC CONTROL DEVICES AND/OR FLAGGERS SHALL BE PLACED AS NEEDED. ADDITIONAL FLAGGERS SHALL BE LOCATED AT ALL INTERSECTIONS AND COMMERCIAL DRIVEWAYS LOCATED WITHIN OR NEAR THE ACTIVE WORK SPACE.
- NO WORK ACTIVITY, EQUIPMENT, OR STORAGE OF VEHICLES, OR MATERIAL SHALL OCCUR WITHIN THE BUFFER SPACE AT ANY TIME.
- CHANNELIZING DEVICE SPACING (CENTER TO CENTER) SHALL NOT EXCEED 40' IN THE ACTIVE WORK SPACE.
- TRANSVERSE DEVICES SHALL BE REQUIRED (AS PER 619 STANDARD SPECIFICATIONS) WHEN A PAVED SHOULDER HAVING A WIDTH OF 8' OR GREATER IS CLOSED FOR A DISTANCE GREATER THAN 1500'.
- THE END ROAD WORK SIGN (G20-2) SHALL BE PLACED A MAXIMUM OF 500' PAST THE END OF THE WORK SPACE.
- WHERE DIRECTED BY THE ENGINEER, A BUFFER SPACE SHALL BE PROVIDED IN ORDER TO LOCATE THE ONE-LANE, TWO-WAY TRAFFIC TAPER PRIOR TO ANY HORIZONTAL OR VERTICAL CURVE, IN ORDER TO PROVIDE ADEQUATE SIGHT DISTANCE FOR THE FLAGGERS AND/OR A QUEUE OF STOPPED VEHICLES.
- THE FLAG TREE SHALL BE LOCATED ON THE SHOULDER, AT APPROXIMATELY 1/2 THE DISTANCE BETWEEN THE FLAGGER SIGN (W20-7a) AND THE FLAGGER.
- FLAGGER SIGN (W20-7a) AND ONE LANE ROAD AHEAD SIGN (W20-4) SHALL BE REMOVED, COVERED OR TURNED AWAY FROM ROAD USERS WHEN FLAGGING OPERATIONS ARE NOT OCCURRING.
- FLAGGER AND FLAG TREE SHALL BE ILLUMINATED TO LEVEL II ILLUMINATION DURING NIGHT TIME OPERATIONS.
- ALL FLAGGERS SHALL USE 24" (MIN.) OCTAGON SHAPED STOP/SLOW PADDLES HAVING 6" STAFF.
- CENTERLINE CHANNELIZING DEVICES ARE OPTIONAL AND MAY BE ELIMINATED WHERE SPACE CONSTRAINTS EXIST.

WORK ZONE TRAFFIC CONTROL LEGEND	
SYMBOL	DESCRIPTION
	DIRECTION OF TRAFFIC
	CHANNELIZING DEVICE
	FLAGGER
	FLAG TREE
	SIGN, TEMPORARY
	WORK SPACE

PREPARED BY: BARTON & LOGUIDICE, D.P.C.
ON: FEBRUARY 24, 2017



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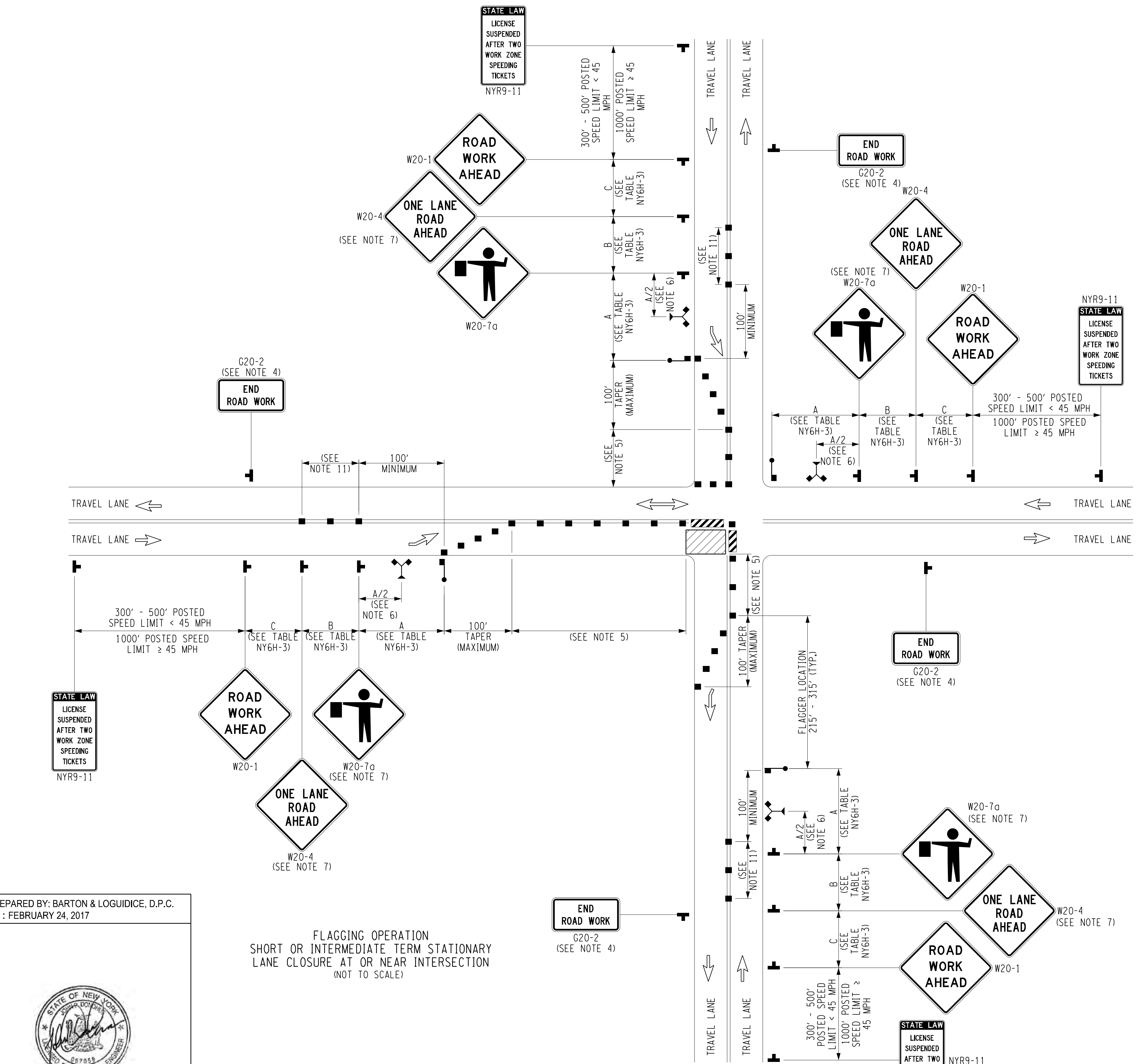
FLAGGING OPERATION
SINGLE LANE CLOSURE
SCALE: AS SHOWN
DATE ISSUED: FEB 2017
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PREPARED BY: BARTON & LOGUIDICE, D.P.C.
 ON: FEBRUARY 24, 2017




FLAGGING OPERATION
 SHORT OR INTERMEDIATE TERM STATIONARY
 LANE CLOSURE AT OR NEAR INTERSECTION
 (NOT TO SCALE)



- NOTES:
1. AT SIGNALIZED INTERSECTIONS, SIGNALS SHALL BE TURNED OFF FOR ANY FLAGGING OPERATIONS, UNLESS OTHERWISE AUTHORIZED BY THE ENGINEER.
 2. WHEN PAVED SHOULDERS HAVING A WIDTH OF 8' OR MORE ARE CLOSED, CHANNELIZING DEVICES SHALL BE USED TO CLOSE THE SHOULDER IN ADVANCE TO DELINEATE THE BEGINNING OF THE WORK AREA AND DIRECT VEHICULAR TRAFFIC TO REMAIN IN THE TRAVEL WAY.
 3. CHANNELIZING DEVICE SPACING (CENTER TO CENTER) SHALL NOT EXCEED 40' IN THE ACTIVE WORK SPACE.
 4. THE END ROAD WORK SIGN (G20-2) SHALL BE PLACED A MAXIMUM OF 500' PAST THE END OF THE WORK SPACE.
 5. WHERE DIRECTED BY THE ENGINEER, A BUFFER SPACE SHALL BE PROVIDED IN ORDER TO LOCATE THE ONE-LANE, TWO-WAY TRAFFIC TAPER PRIOR TO ANY HORIZONTAL OR VERTICAL CURVE, IN ORDER TO PROVIDE ADEQUATE SIGHT DISTANCE FOR THE FLAGGERS AND/OR A QUEUE OF STOPPED VEHICLES.
 6. THE FLAG TREE SHALL BE LOCATED ON THE SHOULDER, AT APPROXIMATELY 1/2 THE DISTANCE BETWEEN THE FLAGGER SIGN (W20-7a) AND THE FLAGGER.
 7. FLAGGER SIGN (W20-7a) AND ONE LANE ROAD AHEAD SIGN (W20-4) SHALL BE REMOVED, COVERED OR TURNED AWAY FROM ROAD USERS WHEN FLAGGING OPERATIONS ARE NOT OCCURRING.
 8. FLAGGER AND FLAG TREE SHALL BE ILLUMINATED TO LEVEL II ILLUMINATION DURING NIGHT TIME OPERATIONS.
 9. ALL FLAGGERS SHALL USE 24" (MIN.) OCTAGON SHAPED STOP/SLOW PADDLES HAVING 6' STAFF.
 10. ADDITIONAL FLAGGERS SHALL BE LOCATED AT ALL INTERSECTIONS AND COMMERCIAL DRIVEWAYS LOCATED WITHIN OR NEAR THE ACTIVE WORK AREA.
 11. CENTERLINE CHANNELIZING DEVICES ARE OPTIONAL AND MAY BE ELIMINATED WHERE SPACE CONSTRAINTS EXIST.
 12. NO WORK ACTIVITY, EQUIPMENT, OR STORAGE OF VEHICLES, OR MATERIAL SHALL OCCUR WITHIN THE BUFFER SPACE AT ANY TIME.
 13. FOR PEDESTRIAN DETOUR ACCOMMODATIONS REFER TO THE STANDARD SHEETS TITLED "SIDEWALK DETOUR OR DIVERSION" AND "CROSSWALK CLOSURE AND PEDESTRIAN DETOUR".

WORK ZONE TRAFFIC CONTROL LEGEND	
SYMBOL	DESCRIPTION
	DIRECTION OF TRAFFIC
	CHANNELIZING DEVICE
	FLAGGER
	FLAG TREE
	SIGN, TEMPORARY
	TYPE III BARRICADE
	WORK SPACE

NO. DATE BY REVISION



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FLAGGING OPERATION
 LANE CLOSURE AT INTERSECTION

SCALE: AS SHOWN

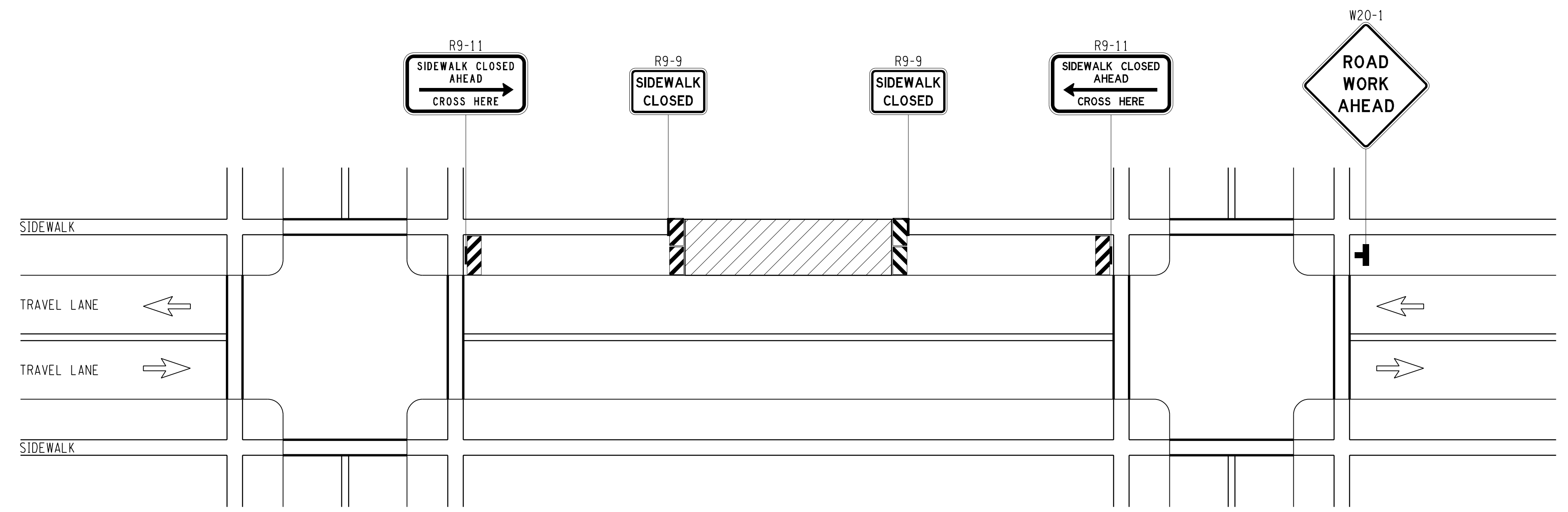
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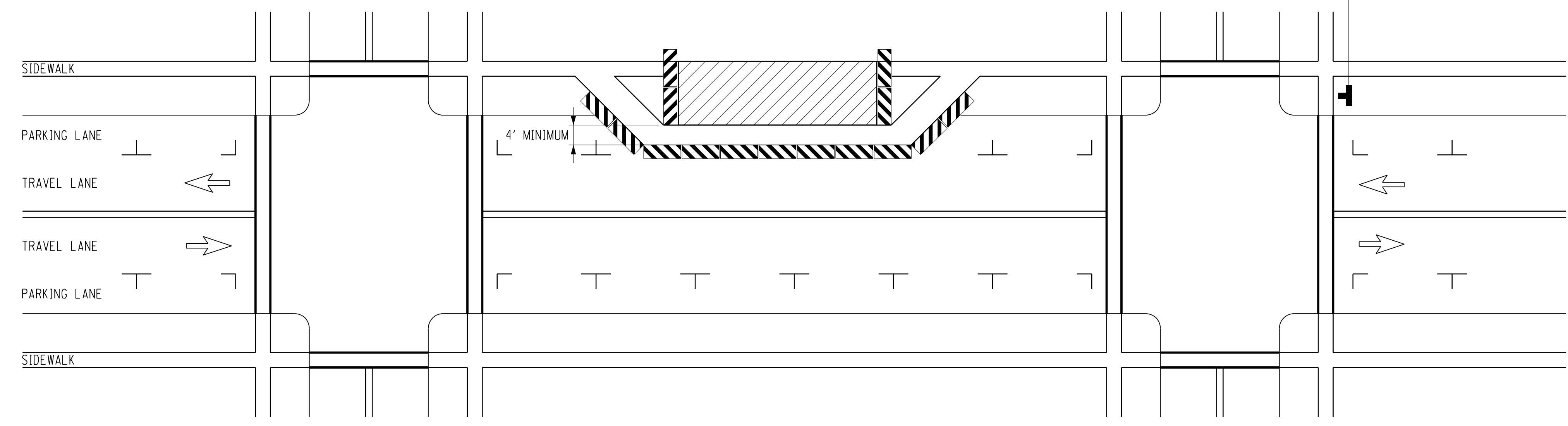
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SIDEWALK DETOUR
 SHORT, INTERMEDIATE, OR LONG TERM STATIONARY
 2-LANE 2-WAY ROADWAY
 (NOT TO SCALE)



SIDEWALK DIVERSION
 SHORT, INTERMEDIATE, OR LONG TERM STATIONARY
 2-LANE 2-WAY ROADWAY
 (NOT TO SCALE)

PREPARED BY: BARTON & LOGUIDICE, D.P.C.
 ON: FEBRUARY 24, 2017



WORK ZONE TRAFFIC CONTROL LEGEND	
SYMBOL	DESCRIPTION
	DIRECTION OF TRAFFIC
	SIGN, TEMPORARY
	TYPE III BARRICADE
	WORK SPACE

- NOTES:
- WHEN CROSSWALKS OR OTHER PEDESTRIAN FACILITIES ARE CLOSED OR RELOCATED, TEMPORARY FACILITIES SHALL BE DETECTABLE AND SHALL INCLUDE ACCESSIBILITY FEATURES CONSISTENT WITH THE FEATURES PRESENT IN THE EXISTING FACILITY.
 - WHERE HIGH SPEEDS ARE ANTICIPATED, A TEMPORARY TRAFFIC BARRIER AND TEMPORARY IMPACT ATTENUATOR SHOULD BE USED TO SEPARATE THE TEMPORARY SIDEWALKS FROM VEHICULAR TRAFFIC.
 - ONLY THE WORK ZONE TRAFFIC CONTROL DEVICES RELATED TO PEDESTRIANS ARE SHOWN. OTHER DEVICES, SUCH AS LANE CLOSURE SIGNING OR ROAD NARROWS SIGNS (W5-4), MAY BE USED TO CONTROL VEHICULAR TRAFFIC.
 - FOR NIGHTTIME CLOSURES, FLASHING WARNING LIGHTS SHALL BE USED ON BARRICADES SUPPORTING SIGNS AND CLOSING SIDEWALKS.
 - SIGNS SUCH AS KEEP RIGHT (LEFT) SHALL BE PLACED ALONG A TEMPORARY SIDEWALK, WHERE APPLICABLE AND ACCORDING TO AMERICAN WITH DISABILITIES STANDARDS, TO GUIDE OR DIRECT PEDESTRIANS.
 - TYPE II BARRICADES MAY BE SUBSTITUTED FOR TYPE III BARRICADES AS PER 619 NYSDDT STANDARD SPECIFICATIONS.

NO. DATE BY REVISION



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SIDEWALK DETOUR
 OR
 DIVERSION
 SCALE: AS SHOWN
 DATE ISSUED: FEB 2017
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