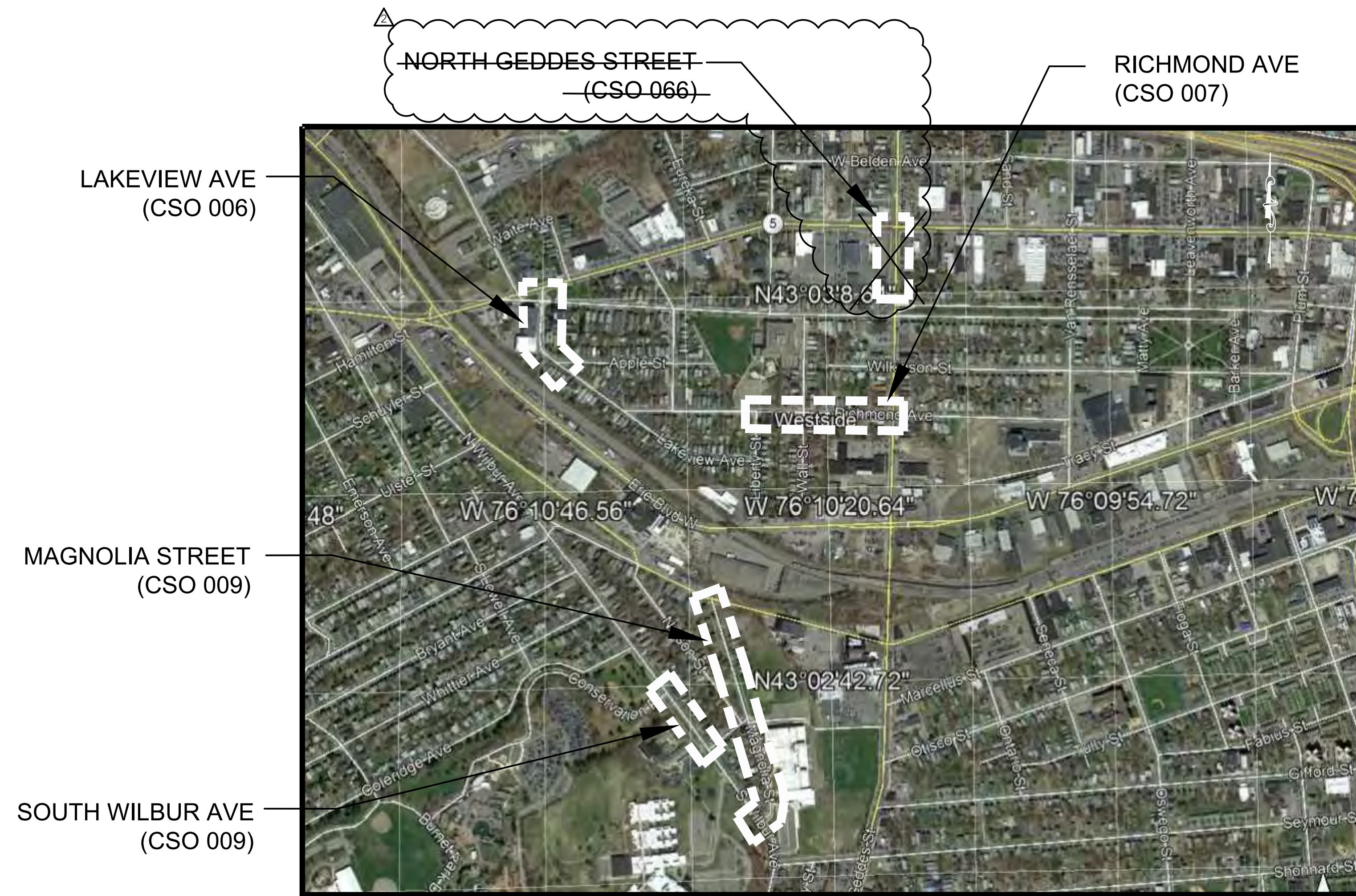




HARBOR BROOK GREEN STREETS ONONDAGA COUNTY WATER ENVIRONMENT PROTECTION SYRACUSE, NEW YORK ONONDAGA COUNTY



LOCATION MAP
NOT TO SCALE

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TITLE SHEET

SCALE: NO SCALE

DRAWING COVER

SHEET NO. 1



J. RYAN McMAHON, II
ONONDAGA COUNTY EXECUTIVE



THIS PROJECT UTILIZES THE ONONDAGA COUNTY 2017 ANNUAL GREEN STRUCTURES CONTRACT AT VARIOUS LOCATIONS FOR STANDARD DETAILS.

LEGEND		
	DECID	DECIDUOUS TREE
	SHRUB	SHRUB
	WS	WATER SERVICE
	WV	WATER VALVE
	HYD	HYDRANT
	GV	GAS VALVE
	GCP	GAS CP TEST
	GRI	GAS RISER
	SAMH	SANITARY MANHOLE
	SV	SEWER VENT
	CO	SEWER CLEAN OUT
	CB	CATCH BASIN
	STMH	STORM MANHOLE
	UP	UTILITY POLE
	UPL	UTILITY POLE WITH LIGHT
	TMH	TELEPHONE MANHOLE
	DEL	DELINEATOR
	SIGN	1 POLE SIGN
	SIGN	STREET SIGN
	MON	CITY MONUMENT
	BM	BENCHMARK
	BAPC-HCP-PK	SURVEY HORIZONTAL CONTROL POINT
	W	WATER LINE
	G	GAS LINE
	CS	COMBINED SEWER LINE
		DRAINAGE BOUNDARY LINE
	P	PROPERTY LINE
	UT	UNDERGROUND UTILITY (TELEPHONE) LINE
		STREET BOUNDARY LINE
		8" PERF HDPE PIPE (SEE DETAIL IS.01)
		8" SOLID HDPE PIPE (SEE DETAIL DR.13)
		CLEANOUT
		BERM
		TREE
		INFILTRATION TRENCH (SEE DETAILS PS.02 & IS.01)
		PAVEMENT REPAIR LIMITS (SEE SHEET TYP-1, DETAIL PS.05)
		TRUING AND LEVELING, HOT MIX ASPHALT (SEE SHEET GNN-1, NOTE 52)
		ANTICIPATED WATER SERVICE REPLACEMENT (SEE GNN-1, NOTE 12)
		SIDEWALK REPAIRS/RECONSTRUCTION (SEE DETAIL PS.13 AND PS.11)
		TACTILE WARNING STRIP (SEE DETAIL PS.13)

ABBREVIATIONS	
ADA	AMERICANS WITH DISABILITIES ACT
BC	BOTTOM OF CURB
CAL	CALIPER
CB	CATCH BASIN
CONC	CONCRETE
DI	DROP INLET
DWG	DRAWING
ELEV	ELEVATION
EX	EXISTING
FT	FOOT, FEET
FH	FIRE HYDRANT
G	NATURAL GAS
HDPE	HIGH-DENSITY POLYETHYLENE
INV	INVERT
LF	LINEAR FEET
MH	MANHOLE
MIN	MINIMUM
NYSDOT	NEW YORK STATE DEPARTMENT OF TRANSPORTATION
OC	ON CENTER
OHE	OVERHEAD ELECTRIC
PERF	PERFORATED
PSI	POUND PER SQUARE INCH
PVC	POLYVINYL CHLORIDE
R/W	RIGHT OF WAY
SAN	SANITARY
ST	STORM
TC	TOP OF CURB
TYP	TYPICAL POTABLE WATER
RCP	REINFORCED CONCRETE PIPE
SICPP	SMOOTH INTERIOR CORRUGATED POLYETHYLENE PIPE
VCP	VITRIFIED CLAY PIPE

BENCHMARK TABLE		
BENCHMARK NAME & LOCATION	ELEVATION	DESCRIPTION
BM A (MAGNOLIA STREET) STA. M 4+13	405.23	CHISELED "X" ON HYDRANT WEST BOLT
BM B (MAGNOLIA STREET) STA. M 6+93	410.38	CHISELED "X" ON HYDRANT SOUTH EAST BOLT
BM C (MAGNOLIA STREET) STA. M 10+25	411.92	RAILROAD SPIKE IN UTILITY POLE (NO NUMBER)
BM D (MAGNOLIA STREET) STA. M 16+01	415.03	RAILROAD SPIKE IN UTILITY POLE (NG 15)
BM E (E. MARCELLUS ST.)	410.38	CHISELED "X" ON HYDRANT SOUTH EAST BOLT
BM F (S. WILBUR AVE.) STA. W 3+55	460.91	RAILROAD SPIKE IN UTILITY POLE (NG 20)
BM G (S. WILBUR AVE.) STA. W 0+02	472.10	RAILROAD SPIKE IN UTILITY POLE (NG 16)
BM A (W. GENESEE ST.) STA.	397.38	CHISELED "X" ON HYDRANT NORTH BOLT
BM A (LAKEVIEW AVE.) STA. L 2.46	391.12	RAILROAD SPIKE IN UTILITY POLE (NG 21)
BM B (LAKEVIEW AVE.) STA. L 4+97	394.63	CHISELED "X" ON HYDRANT WEST BOLT
BM C (LAKEVIEW AVE.) STA. L 6+80	392.47	RAILROAD SPIKE IN UTILITY POLE (NG 12)
BM A (RICHMOND AVE.) STA. R 4+04	384.70	CHISELED "X" ON HYDRANT SOUTH EAST BOLT
BM B (RICHMOND AVE.) STA. R 6+30	399.16	RAILROAD SPIKE IN UTILITY POLE (NG 17)
BM C (RICHMOND AVE.) STA. R 9+14	399.85	RAILROAD SPIKE IN UTILITY POLE (NG 14)

TREE INVENTORY TABLE				
QTY.	KEY	NAME	COMMON NAME	SIZE
FLOWERING TREES				
13	CC	CERCIS CANDENSIS	EASTERN REDBUD	2.5" CAL
2	MR	MALUS 'RED JEWEL'	CRAB	2.5" CAL
11	MS	MALUS 'STARLITE'	CRAB	2.5" CAL
2	PS	PRUNUS SUBHIRTILLA 'AUTUMNALIS'	ROSEBUD CHERRY	2.5" CAL
2	SR	SYRINGA RETICULATA 'IVORT SILK'	LILAC	2.5" CAL
SHADE TREES				
7	AG	ACER GRISEUM	PAPERBARK MAPLE	2.5" CAL
2	AB	ACER RUBRUM 'BURGUNDY BELL'	RED MAPLE	2" CAL
2	AA	ACER RUBRUM 'AUTUMN BLAZE'	RED MAPLE	2.5" CAL
5	AR	ACER RUBRUM 'RED SUNSET'	RED MAPLE	2.5" CAL
6	CP	CARPINUS	HORNBEAM	2.5" CAL
2	GM	GINKO BILOBA	GINKO	2.5" CAL
4	GT	GLEDITSIA TRICANTHOS INERMIS	HONEYLOCUST	2.5" CAL
7	GD	GYMNOCLADUS DIOICUS	KENTUCKY COFFEETREE	2" CAL
2	NS	NYSSA SYLVATICA	BLACK TUPELO	2.5" CAL
3	QB	QUERCUS BICOLOR	SWAMP OAK	2.5" CAL



HARBOR BROOK GREEN STREETS
ONONDAGA COUNTY WATER
ENVIRONMENT PROTECTION
SYRACUSE, NEW YORK
ONONDAGA COUNTY

sym.	Revisions	date
	RECORD DWG INSPECTION JMT	03.27.20

PROJECT NO: 17-S0182N-001
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LEGEND, LINE AND POINT SYMBOLOGY

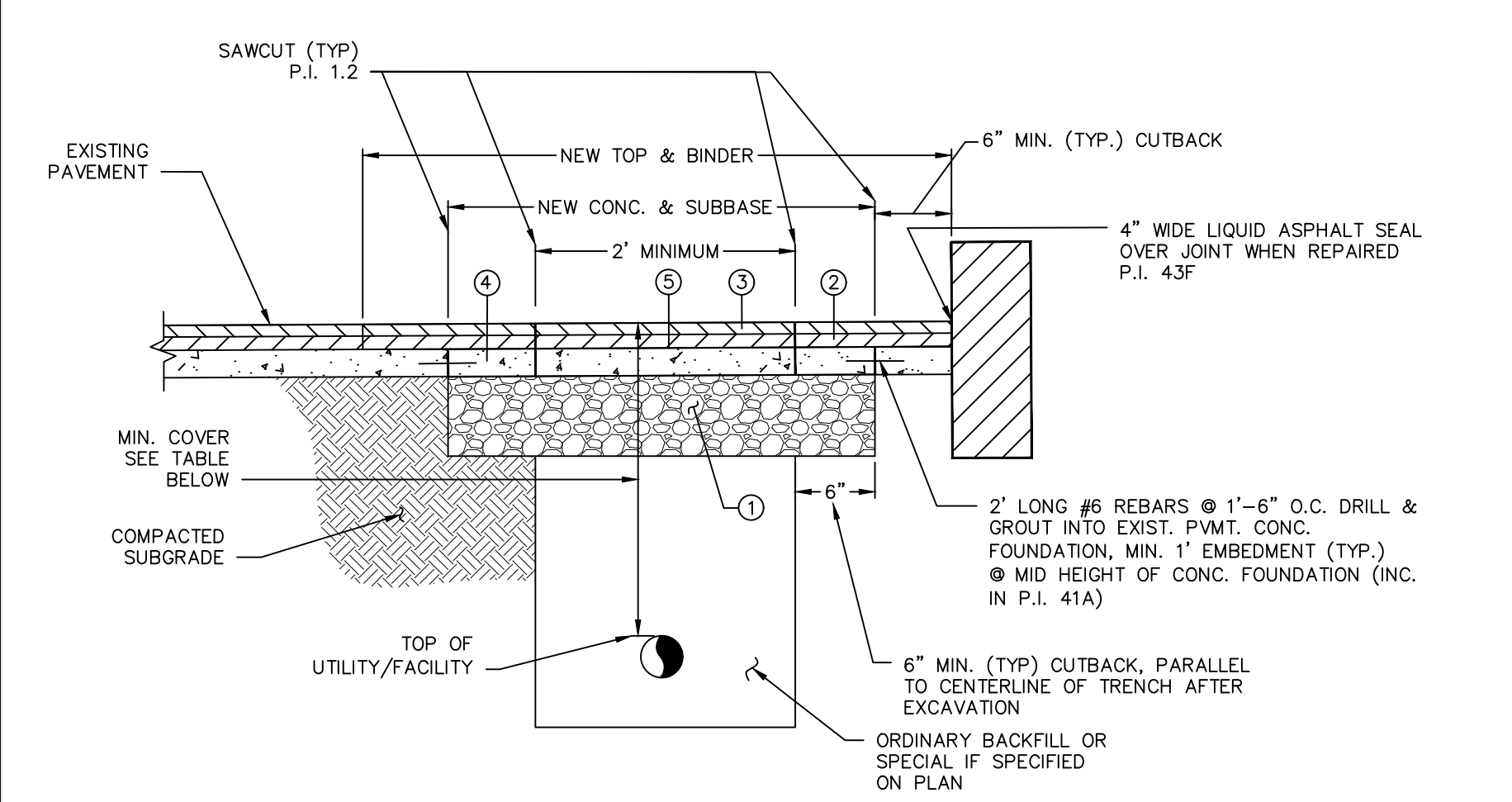
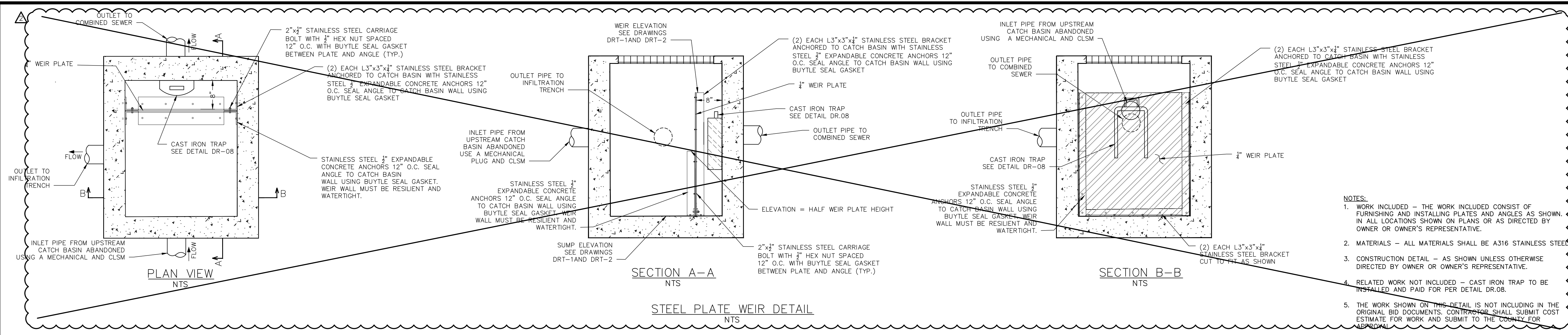
SCALE: NO SCALE

DRAWING LEG-1

SHEET NO. 2



Project No. 17-S0182N-001



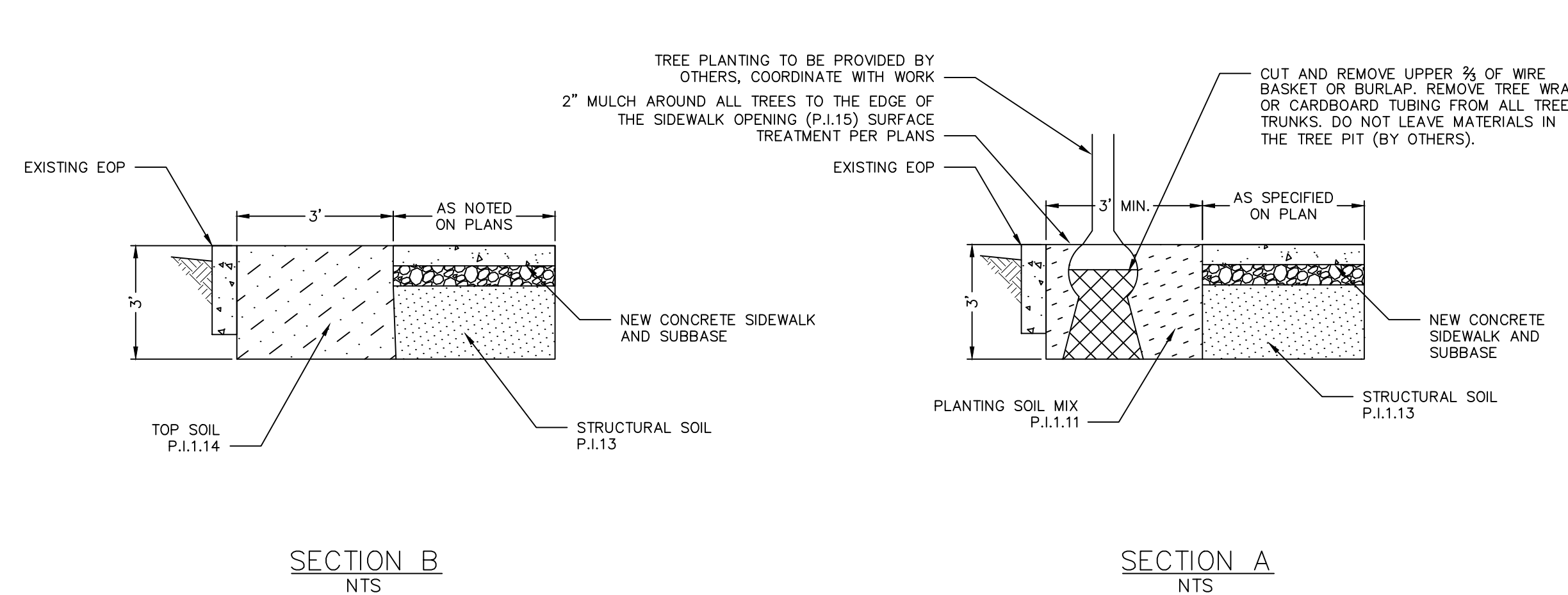
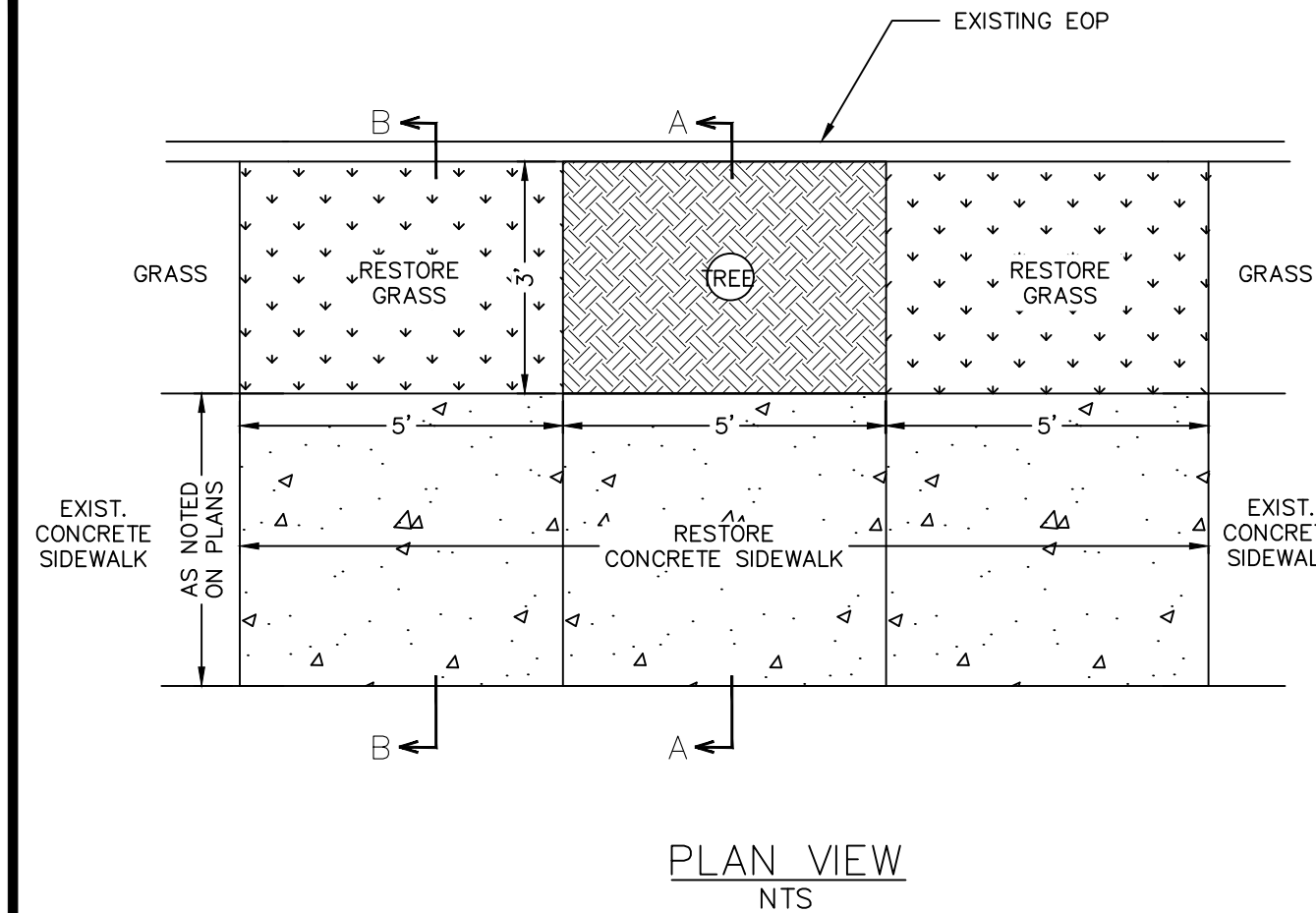
DRAWING KEY	DESCRIPTION	PAY ITEM
①	SUBBASE COURSE, TYPE "1" RUN-OF-CRUSHER (12")	9A
②	ASPHALT CONCRETE-TYPE 19 BINDER COURSE (ONE-1-1/2" LIFT)	43C
③	ASPHALT CONCRETE-TYPE 9 TOP COURSE (ONE-1-1/2" LIFT)	43A
④	FIBER-REINFORCED PORTLAND CEMENT CONCRETE-3,500 PSI (8")	41A
⑤	ASPHALT TACK COAT	43E

MINIMUM COVER	
3'-0"	GAS, ELECTRIC, CABLE, TV, TELECOMMUNICATIONS
5'-0"	WATER
3'+ AS DIRECTED BY CITY'S ENGINEER	ALL OTHERS

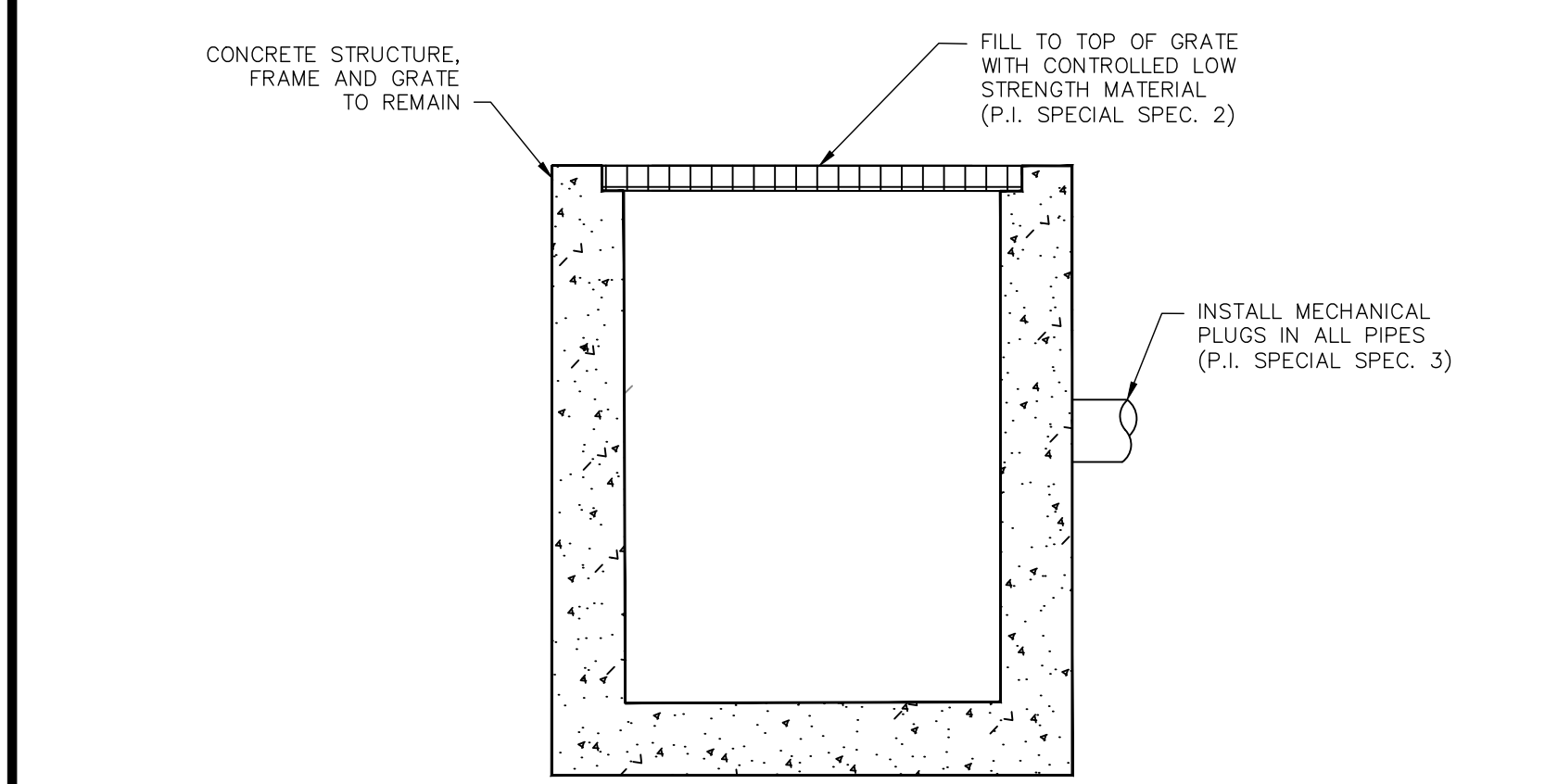
- GENERAL NOTES:**
1. REFER TO CITY OF SYRACUSE STANDARD SPECIFICATIONS OR DETAILS. THE MINIMUM THICKNESS OF EACH LAYER OF BINDER, TOP, SUBBASE AND CONCRETE BASE SHALL MATCH THOSE SHOWN ON STANDARD DETAILS OR MATCH EXISTING WHERE CONDITIONS EXCEED MINIMUMS.
 2. IN NO CASE SHALL THE TOP OF CONCRETE BASE BE HIGHER THAN THAT OF THE SURROUNDING EXISTING CONCRETE.
 3. IF PAVEMENT MARKINGS OR SIGNAL LOOPS ARE DISTURBED OR DESTROYED, THEY SHALL BE REPLACED IN ACCORDANCE WITH CITY OF SYRACUSE STANDARDS. PAYMENT UNDER ITEM 1.61/1.72.
 4. MATCH EXISTING PAVEMENT STOPE.
 5. IF, IN THE OPINION OF THE CONTRACTOR, THE EXISTING CONCRETE FOUNDATION IS IN POOR CONDITION, THE ENGINEER SHALL BE CONTACTED FOR PRIOR APPROVAL TO ELIMINATE DOWELS.
- UTILITY STREET CUT REPAIR NOTES:**

1. WHEN 30% OR MORE OF THE PAVEMENT IS EXCAVATED BY PRIVATE UTILITY WORK, THE CITY, AT ITS DISCRETION, MAY REQUIRE RECONSTRUCTION FROM THE CENTER LINE TO THE EDGE/CURB OF THE ENTIRE SECTION.
2. WHEN 60% OR MORE OF THE PAVEMENT LANE AREA IS EXCAVATED BY PRIVATE UTILITY, THE ENTIRE AREA FROM THE CENTER LINE OF THE PAVEMENT TO THE CURB MUST BE RECONSTRUCTED.
3. IF ANY PAVEMENT DISTURBANCE OCCURS WITHIN 2 FEET OF THE EDGE/CURB, PAVEMENT RECONSTRUCTION MUST BE COMPLETED TO THE EDGE/CURB.
4. IN AREAS WHERE TRENCH WIDTH VARIES THE PERCENTAGES SHALL BE DETERMINED PER 100 LINEAR FEET ALONG CENTER LINE OF THE STREET. IN INTERSECTIONS THE AREA WILL BE PER QUADRANT OF THE INTERSECTION.
5. EXISTING PAVEMENT IS TO BE SAW-CUT FULL DEPTH TO OBTAIN A STRAIGHT AND NEAT EDGE FOR PAVING. SAW-CUT IS TO BE MADE AFTER BACKFILLING THE TRENCH TO THE BOTTOM OF NEW PAVEMENT SECTION.

TYPICAL SECTION PIPE TRENCHING/ROAD RESTORATION W/CONCRETE BASE
NTS

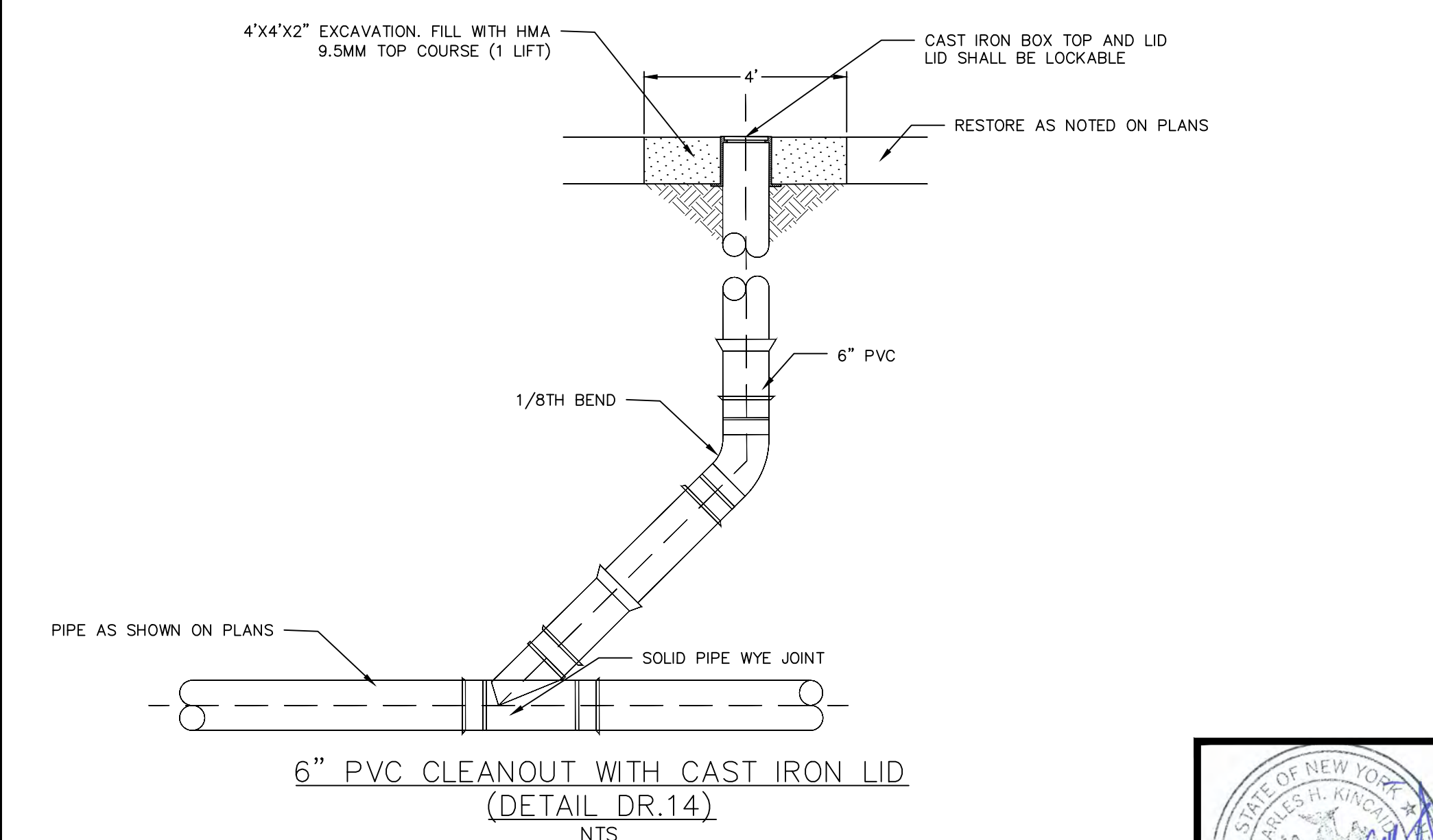


STREET TREE DETAIL (DETAIL TT.03)
NTS



- NOTES:**
1. CONTROLLED LOW STRENGTH MATERIAL (CLSM) PLACEMENTS SHALL CONFORM TO NYSDOT §204 FLOWABLE FILL.
 2. CONTRACTOR SHALL PROPOSE MATERIALS AND CONSTRUCTION DETAILS FOR MECHANICAL PLUGS TO THE ENGINEER FOR APPROVAL. PLUG SHALL BE WATER TIGHT.
 3. THE WORK SHOWN ON THIS DETAIL IS NOT INCLUDING IN THE ORIGINAL BID DOCUMENTS. CONTRACTOR SHALL SUBMIT COST ESTIMATE FOR WORK AND SUBMIT TO THE COUNTY FOR APPROVAL.

CATCH BASIN DECOMMISSION DETAIL
NTS



6" PVC CLEANOUT WITH CAST IRON LID
NTS



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TYPICAL SECTIONS

SCALE: NO SCALE

DRAWING TYP-1

SHEET NO. 3

A. GENERAL NOTES

1. PROVIDE TEMPORARY FENCING AND ADEQUATE SIGNAGE TO MAINTAIN SECURITY AT ALL TIMES IN ORDER TO PROTECT THE WORK IN PROGRESS. OPEN EXCAVATIONS SHALL BE PROPERLY PROTECTED AT ALL HOURS. ALL EXCAVATIONS SHALL BE BACK FILLED AT THE END OF EACH DAY.
2. NOTIFY DIG SAFELY NEW YORK (811) AT LEAST 72 HOURS PRIOR TO CONSTRUCTION.
3. CONTRACTOR SHALL NOTIFY ALL UTILITY PURVEYORS AT LEAST 72 HOURS IN ADVANCE OF STARTING ANY WORK.
4. VERIFY ALL EXISTING UTILITIES AND OTHER IMPROVEMENTS PRIOR TO START OF WORK AND IMMEDIATELY NOTIFY ENGINEER OF POTENTIAL CONFLICTS WITH PROPOSED WORK.
5. PROTECT EXISTING TREES AND OTHER SITE AMENITIES INDICATED TO REMAIN DURING CONSTRUCTION. INSTALL PROTECTIVE FENCING AS INDICATED ON THE TYPICAL DETAILS. EXERCISE ALL REASONABLE CARE WHEN WORKING IN CLOSE PROXIMITY TO EXISTING VEGETATION TO AVOID DAMAGE. AVOID THE USE OF HEAVY EQUIPMENT OR STOCKPILING MATERIALS WITHIN THE TREES' DRIP LINE.
6. THE 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 BE PROPERLY MAINTAINED FOR THE DURATION OF THE WORK.
7. THE CONTRACTOR SHALL APPLY FOR ALL REQUIRED PERMITS AND PAY ALL REQUIRED FEES BY GOVERNING AGENCIES HAVING JURISDICTION OVER THE FACILITIES AND NATURAL FEATURES FOUND ON THE SITE.
8. ALL WORK AND AMENITIES SHOWN ON THE CONTRACT DOCUMENTS SHALL BE CONSIDERED NEW UNLESS INDICATED TO BE EXISTING.
9. THE CONTRACTOR SHALL SCHEDULE THE CONSTRUCTION SEQUENCE TO MAINTAIN CONTINUITY OF ACTIVITIES WITHOUT DELAYS.
10. THE CONTRACTOR SHALL BECOME FAMILIAR WITH THE EXISTING SITE CONDITIONS PRIOR TO THE START OF ANY CONSTRUCTION SITE DISTURBANCE.
11. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS AND MAKE ALL NECESSARY PROVISIONS FOR PROTECTION OF THE PUBLIC, THE WORKMEN AND THE WORK, AND FOR MAINTENANCE AND PROTECTION OF PEDESTRIAN AND VEHICULAR TRAFFIC AS REQUIRED BY THE AGENCIES OF GOVERNMENT HAVING JURISDICTION.
12. SITE ACCESS IS RESTRICTED TO THE LOCATIONS SPECIFICALLY DESIGNATED ON PLAN.
13. THE CONTRACTOR SHALL ADHERE TO ALL OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA), STATE AND LOCAL SAFETY REGULATIONS.
14. PROMPTLY REPORT TO THE ENGINEER ANY DISCREPANCIES FOUND ON THE SITE OR IN THE CONTRACT DOCUMENTS FOR REVIEW AND RESOLUTION BEFORE PROCEEDING WITH THE WORK IN THE AREA IN QUESTION. PROVIDE FIELD INFORMATION SPECIFIC TO THE DISCREPANCY TO EXPEDITE RESOLUTION.
15. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING A NEW YORK STATE LICENSED LAND SURVEYOR FOR THE LAYOUT AND STAKEOUT OF ALL SITE WORK AND PREPARATION OF AS-BUILT SURVEY.
16. AT CLOSE OF PROJECT, CONTRACTOR SHALL VERIFY INVERT ELEVATIONS OF ALL STRUCTURES USING A NYS LICENSED SURVEYOR. THE CONTRACTOR SHALL PREPARE AS-BUILT RECORD DRAWING SHOWING RIMS, INVERTS, PIPE SIZES, PIPE LOCATIONS PIPE BENDS, CLEANOUTS, BLIND CONNECTIONS.
17. LOCATE, PROTECT, AND MAINTAIN BENCHMARKS, MONUMENTS, CONTROL POINTS AND PROJECT SURVEYING REFERENCE POINTS.
18. AVOID ANY DISTURBANCE OF EXISTING VEGETATION ON THE SITE EXCEPT THE VEGETATION SPECIFICALLY DESIGNATED TO BE REMOVED.
19. TAKE ALL PRECAUTIONS NECESSARY TO PREVENT EROSION AND CONTROL SEDIMENTATION AS REQUIRED BY THE AGENCIES OF GOVERNMENT HAVING JURISDICTION.

20. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DEWATERING AND MAINTENANCE OF SURFACE WATER AND/OR GROUNDWATER ENCOUNTERED DURING THE COURSE OF WORK.
21. COMPLY WITH ALL LOCAL, STATE AND FEDERAL REQUIREMENTS REGARDING MATERIALS, METHODS OF WORK AND DISPOSAL OF EXCESS AND WASTE MATERIALS.
22. BURNING OF MATERIALS OF ANY DESCRIPTION ON THE SITE IS PROHIBITED.
23. PRIOR TO THE START OF WORK, THE CONTRACTOR SHALL:
 - A. REVIEW THE CONTRACT DOCUMENTS FOR ACCURACY OF EXISTING CONDITIONS. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES. BY COMMENCING CONSTRUCTION, THE CONTRACTOR ACCEPTS THE CONTRACT DOCUMENTS AS ACCURATELY REPRESENTING THE EXISTING SITE CONDITIONS.
 - B. ESTABLISH THE LIMITS OF ALL AREAS TO BE DISTURBED.
 - C. PROVIDE EXPLORATORY EXCAVATIONS AND COORDINATE ALL PIPING LAYOUTS WITH THE ENGINEER TO ELIMINATE ALL CONFLICTS WITH EXISTING UTILITIES.
24. THE USE OF EXPLOSIVES OF ANY DESCRIPTION ON THE SITE IS PROHIBITED.
25. CONSTRUCTION DEBRIS AND DEMOLISHED MATERIALS SHALL BE REMOVED FROM THE SITE DAILY AS DETERMINED BY THE ENGINEER AND SHALL NOT BE ALLOWED TO ACCUMULATE. EMPLOY APPROPRIATE MEASURES TO PREVENT LOOSE DEBRIS FROM LEAVING THE CONSTRUCTION AREA.
26. ALL FACILITIES TO BE CONSTRUCTED OR INSTALLED SHALL COMPLY WITH ALL SECTIONS AND LATEST REVISIONS OF THE REQUIREMENTS OF ALL AGENCIES OF GOVERNMENT HAVING JURISDICTION.
27. LONG LEAD AND SCARCE MATERIALS SHALL BE ORDERED IN A TIMELY MANNER TO PREVENT AVOIDABLE CONSTRUCTION DELAYS.
28. THE CONTRACTOR IS RESPONSIBLE FOR ALL DAMAGE CAUSED BY CONSTRUCTION TO EXISTING UTILITIES AND FACILITIES WHICH ARE NOT INCLUDED AS PART OF THE INTENDED WORK. THE CONTRACTOR SHALL REPAIR, RESTORE AND/OR REPLACE ALL DAMAGE TO THE SATISFACTION OF ENGINEER AT NO ADDITIONAL COST TO THE OWNER.
29. THE CONTRACTOR SHALL RESTORE ALL DISTURBED SURFACES TO ORIGINAL OR BETTER CONDITION INCLUDING 6 INCHES OF TOPSOIL, SEED, FERTILIZER, AND MULCH. OTHER SURFACES SHALL BE RESTORED AS SHOWN ON THE DETAILS. SEE PLANTING PLAN FOR APPROPRIATE SEED MIX.
30. REPAIR ALL CONSTRUCTION ACCESS PATHWAYS TO PRE-CONSTRUCTION CONDITIONS AT THE CONCLUSION OF WORK.
31. DESIGN SPECIFICATIONS: ONONDAGA COUNTY GREEN INFRASTRUCTURE TERM CONTRACT SPECIFICATIONS WITH ALL PROVISIONS IN EFFECT AS OF 2017.
32. THE CONTRACTOR SHALL VISIT THE SITE BEFORE BIDDING TO FAMILIARIZE THEMSELVES WITH THE FIELD CONDITIONS AND TO DETERMINE THE EXTENT AND NATURE OF WORK TO BE PERFORMED UNDER THIS CONTRACT. NO EXTRA COMPENSATION WILL BE ALLOWED TO THE CONTRACTOR BECAUSE OF THE CONTRACTORS FAILURE TO INCLUDE IN HIS BID. ALL ITEMS AND MATERIALS WHICH HE IS REQUIRED TO FURNISH IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
33. THE CONTRACTOR IS ADVISED TO THE FACT THAT THERE ARE UTILITIES WITHIN THE PROJECT AREA. LOCATIONS AS SHOWN ON THE PLANS ARE BASED ON THE BEST AVAILABLE INFORMATION AND ARE ONLY APPROXIMATE. THE CONTRACTOR SHALL VERIFY THE LOCATION FOR THESE UTILITIES PRIOR TO COMMENCING OPERATIONS.
34. ADDITIONAL UTILITY LINES, WHETHER ABANDONED OR IN SERVICE, MAY EXIST AND IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CONDUCT THEIR OPERATIONS AND TAKE THE NECESSARY PRECAUTIONS TO PREVENT INTERFERENCE WITH, OR DAMAGE TO THESE FACILITIES DURING THE COURSE OF CONSTRUCTION
35. IN THE EVENT THAT THE CONTRACTOR DAMAGES AND EXISTING SERVICE, CAUSING AN INTERRUPTION IN SAID SERVICE, THEY SHALL IMMEDIATELY CONTACT THE UTILITY OWNER AND PROTECT FROM CONTAMINATION WHEN STORED ON SITE.

36. PROTECT INFILTRATION BED SUBGRADE FROM SEDIMENT DEPOSITION AND/OR COMPACTION DURING CONSTRUCTION. DO NOT ALLOW CONSTRUCTION VEHICLES TO TREAD ON THE INFILTRATION BED SUBGRADE.
37. CONTRACTOR SHALL FOLLOW INFILTRATION BED, AND DRAINAGE CONTROL REQUIREMENTS AS SPECIFIED.
38. AGGREGATE FOR INFILTRATION BED SHALL BE CLEAN-WASHED PRIOR TO PLACEMENT AND PROTECTED FROM CONTAMINATION WHEN STORED.
39. MAINTAIN LOOSE AND UNDISTURBED STORMWATER INFILTRATION BED SUBGRADE, SCARIFY TOP 6 INCHES, DO NOT ALLOW CONSTRUCTION EQUIPMENT ON TRENCH BOTTOM SURFACE.
40. LEAD WATER SERVICES DISTURBED SHALL BE REPLACED. WORK FROM WATER MAIN TO WATER SERVICE CURB BOX SHALL BE PERFORMED BY THE CONTRACTOR. WORK FROM CURB BOX TO RESIDENCE SHALL BE PERFORMED BY THE CITY OF SYRACUSE. THIS WORK SHALL BE COORDINATED WITH THE CITY OF SYRACUSE PRIOR TO REPLACING WATER LINES.
41. CONTRACTOR SHALL NOTIFY CITY OF SYRACUSE DEPARTMENT OF WATER AT LEAST 24 HOURS IN ADVANCE OF STARTING ANY WORK.
42. CONTRACTOR SHALL MAINTAIN ACCESS TO DRIVEWAYS AND PEDESTRIAN ACCESS AT ALL TIMES.
43. CLEANING STRUCTURES – AT THE CLOSE OF PROJECT, THE CONTRACTOR SHALL VACUUM CLEAN ALL STRUCTURES AND CATCH BASIN FILTER INSERTS (NEW AND EXISTING) CONNECTED TO THE PROJECT SCOPE.
44. IF PAVEMENT DISTURBANCE OCCURS WITHIN 2 FEET OF THE EDGE/CURBS, 2" MILLING AND PAVEMENT MUST BE COMPLETED TO THE EDGE/CURB.
45. EXISTING PAVEMENT IS TO BE SAWCUT FULL DEPTH TO OBTAIN A STRAIGHT AND NEAT EDGE FOR PAVING. SAWCUT IS TO BE MADE AFTER BACKFILLING THE TRENCH TO THE BOTTOM OF THE NEW PAVEMENT SECTION. NO DIAGONAL CUTS WILL BE ALLOWED.
46. ALL UTILITY OFFSET DIMENSIONS ARE FROM CENTERLINE OF UTILITY.
47. ALL OFFSETS FROM GRANITE CURBS ARE FROM FRONT FACE OF CURB.
48. ALL PAVEMENT THAT IS DISTURBED SHALL BE RESTORED PER CITY OF SYRACUSE STANDARDS. SEE DETAIL PS.05
49. THE CONTRACTOR SHALL INVENTORY ALL PAVEMENT MARKINGS TO BE DISTURBED DURING THE COURSE OF WORK. INVENTORY AND RESTORATION OF DISTURBED MARKINGS SHALL BE PAID FOR UNDER THE APPLICABLE PAVEMENT STRIPING ITEMS FOR WHITE AND YELLOW PAINT RESPECTIVELY. FINAL LAYOUT OF NEW MARKINGS SHALL BE APPROVED BY THE ENGINEER BEFORE COMMENCING PAINTING OPERATIONS.
50. RIM ELEVATIONS SHOWN FOR RESTORATION OF CURB BOX AND MANHOLE COVERS AND INSTALLATION OF NEW CURB BOXES AND MANHOLES ARE APPROXIMATE. FINAL ELEVATIONS ACCOUNTING FOR FIELD CONDITIONS SHALL BE PROPOSED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER TO ENSURE PROPER DRAINAGE.
51. FOR ALL MILL/FILL AREAS DESIGNATED ON THE PLANS THAT CONTAIN TRUING AND LEVELING: THE CONTRACTOR SHALL PROPOSE A REPAIR PROCEDURE TO INCLUDE DEPTH OF MILLING AND HMA COURSES TO BE PLACED TO ADEQUATELY RESTORE PAVEMENT SURFACES. TRUING AND LEVELING OPERATIONS WILL BE PAID UNDER THE APPLICABLE HOT MIX ASPHALT ITEM BASED ON THE MATERIAL PLACED. APPARENT PROFILE AND CROSS-SLOPE OF THE PAVEMENT SHALL BE DETERMINED IN THE FIELD. ALL TRUING AND LEVELING REPAIR PROCEDURES SHALL BE APPROVED BY THE ENGINEER PRIOR TO COMMENCING WORK.
52. CONTRACTOR SHALL LEAK TEST ALL WEIRS TO ENSURE WATER TIGHTNESS. TEST SHALL BE FOR 48 HOURS. IF NO WET SPOTS OR VISIBLE LEAKAGE ARE OBSERVED, TEST WILL BE CONSIDERED SATISFACTORY. TESTING MUST BE WITNESSED BY THE ENGINEER'S AUTHORIZED REPRESENTATIVE.

B. UTILITY NOTES

1. EXISTING UNDERGROUND FACILITIES, STRUCTURES, AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE PLANS, RECORDS AND SURVEYS. THEIR LOCATION MUST THEREFORE BE CONSIDERED APPROXIMATE & NO GUARANTEE IS MADE BY BRYANT ASSOCIATES, P.C. TO THE HORIZONTAL OR VERTICAL LOCATION OF SUCH FACILITIES, STRUCTURES AND UTILITIES, THERE MAY BE OTHERS. THE EXISTENCE OF WHICH IS PRESENTLY UNKNOWN. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE HORIZONTAL & VERTICAL LOCATIONS OF ALL FACILITIES, STRUCTURES & UTILITIES IN THE FIELD PRIOR TO COMMENCING WORK.

C. SURVEY NOTES

1. THE BOUNDARY AND TOPOGRAPHIC SURVEY INFORMATION SHOWN ON THIS PLAN WERE PREPARED BY BRYANT ASSOCIATES, P.C. DATED OCTOBER 2017.
2. THE COORDINATE DATUM IS BASED ON NEW YORK STATE PLANE COORDINATE SYSTEM – CENTRAL ZONE, NAD83.
3. VERTICAL DATUM IS NAVD88 (NYSNET).
4. SUBSURFACE UTILITY INFORMATION WAS OBTAINED FROM FIELD SURVEY AND FROM RESPECTIVE UTILITY PURVEYORS AND THEIR LOCATIONS AS SHOWN ARE APPROXIMATE AND SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO ANY SOIL DISTURBANCE. VERIFY ALL EXISTING UTILITIES AND OTHER IMPROVEMENTS PRIOR TO START OF WORK AND IMMEDIATELY NOTIFY ENGINEER OF POTENTIAL CONFLICTS WITH PROPOSED WORK.
5. THE LOCATIONS OF STREET RIGHT-OF-WAY LINES ARE APPROXIMATE AND WERE PLOTTED FOR GRAPHICAL REPRESENTATION ONLY USING TAX MAP INFORMATION AND THE CITY OF SYRACUSE RIGHT-OF-WAY PLAT MAPS. NO TITLE DOCUMENTS WERE PROVIDED OR REVIEWED AT THE TIME OF THIS SURVEY.
6. THE CONTRACTOR'S ATTENTION IS DIRECTED TO ALL APPLICABLE LAWS REGARDING LIABILITY INCURRED THROUGH THE DISTURBANCE AND DESTRUCTION OF GEODETIC SURVEY MONUMENTS.
7. CITY OF SYRACUSE 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 OF CONSTRUCTION BEGINS.



Project No: 17-S0182N-001



HARBOR BROOK GREEN STREETS
ONONDAGA COUNTY WATER
ENVIRONMENT PROTECTION
SYRACUSE, NEW YORK
ONONDAGA COUNTY

sym.	Revisions	date

PROJECT NO: 17-S0182N-001
DATE: 03-06-19
DRAWN BY: MEN
DESIGNED BY: SBC
CHECKED BY: CHK

NO ALTERATION PERMITTED HEREIN EXCEPT AS PROVIDED UNDER SECTION 7209 SUBDIVISION 2 OF THE NEW YORK EDUCATION LAW

GENERAL NOTES

SCALE: NO SCALE

DRAWING GNN-1

SHEET NO. 4



D. DEMOLITION NOTES

- UNLESS INDICATED "REMOVE AND SALVAGE" OR "REMOVE AND REUSE," ALL ITEMS INDICATED "REMOVE" SHALL BE DEMOLISHED, HAULED OFF-SITE AND DISPOSED OF IN STRICT COMPLIANCE WITH THE REQUIREMENTS OF ALL AGENCIES OF GOVERNMENT HAVING JURISDICTION.
- EXERCISE ALL REASONABLE CARE IN REMOVING AND HANDLING EXISTING ON-SITE MATERIALS INDICATED FOR SALVAGE TO THE OWNER OR FOR REUSE ON THE SITE.
- IF A CONFLICT WITH EXISTING UTILITIES IS DISCOVERED, THE CONTRACTOR SHALL IMMEDIATELY MAKE THE ENGINEER AWARE OF THE CONFLICT. IF ANY RELOCATIONS OF UTILITIES ARE REQUIRED, THE CONTRACTOR SHALL PERFORM WORK AND PROVIDE ALL MATERIALS NECESSARY TO DISCONNECT OR RELOCATE EXISTING UTILITIES IN ACCORDANCE WITH THE CITY OF SYRACUSE AND ONONDAGA COUNTY REQUIREMENTS. COORDINATE WITH THE RESPECTIVE UTILITY COMPANIES FOR SHUTOFF AND RECONNECTION OF ACTIVE SERVICES. THE CONTRACTOR SHALL RECORD EXISTING UTILITY TERMINATION POINTS BEFORE DISCONNECTION.
- WHERE EXISTING PAVEMENT IS TO BE REMOVED, CONTRACTOR WILL PROVIDE A TRUE, NEAT AND CLEAN EDGE AGAINST WHICH TO ABUT WORK OF THIS CONTRACT.
- ALL ABANDONED PIPES TO REMAIN ARE TO BE FILLED WITH CONTROLLED LOW STRENGTH CONCRETE, EXCEPT THOSE CONNECTED TO A COMBINED SEWER. THOSE LATERALS WILL BE DISCONNECTED, CAPPED, AND ABANDONED IN PLACE PER THE CITY OF SYRACUSE AND ONONDAGA COUNTY PLUMBING CONTROL REQUIREMENTS.
- THE CONTRACTOR IS PERMITTED TO SALVAGE ALL MATERIALS AND EQUIPMENT FROM THE DEMOLITION WORK EXCEPT FOR MATERIALS AND EQUIPMENT SHOWN OR SPECIFIED TO BE REMOVED AND DELIVERED TO AN ON-SITE LOCATION TO BE NAMED BY THE ENGINEER.
- ALL SALVAGED MATERIALS AND EQUIPMENT SHALL BE TAKEN OFF-SITE IMMEDIATELY UPON REMOVAL. NO ON-SITE STORAGE IS ALLOWED EXCEPT FOR TOPSOIL. NO RE-USE OF SALVAGED MATERIALS IS ALLOWED IN THIS CONTRACT. NO SALE OF SALVAGED ITEMS IS ALLOWED ON THE PROJECT SITE.

E. EROSION & SEDIMENT CONTROL NOTES

- CONTRACTOR SHALL ENSURE THAT NEITHER EROSION NOR SEDIMENTATION OCCURS RESULTING IN ADVERSE IMPACT TO CITY SEWER SYSTEM OR ADJACENT DOWNSTREAM PROPERTY (IES), THROUGH THE USE OF SILT FENCING, CATCH BASIN INLET PROTECTION, AND/OR OTHER ESC MEASURES, IF NECESSARY.
- MAINTAIN AN ADEQUATE SUPPLY OF EROSION AND SEDIMENT CONTROL MATERIALS AT THE CONSTRUCTION SITE AT ALL TIMES TO BE USED FOR URGENT SITUATIONS SUCH AS UNEXPECTED HEAVY RAINFALL.
- MAINTENANCE AND REPAIR OF ALL EQUIPMENT AND VEHICLES INVOLVING OIL CHANGES, HYDRAULIC SYSTEM AND FUEL TANK DRAIN DOWN, DEGREASING OPERATIONS AND OTHER ACTIVITIES THAT MAY RESULT IN THE ACCIDENTAL RELEASE OF CONTAMINANTS MUST BE CONDUCTED OFF-SITE. ACCIDENTAL SPILLS MUST BE CLEANED UP IMMEDIATELY AND CONTAMINANTS DISPOSED OF PROPERLY.
- DISTURBED AREAS SHALL BE AS SMALL AS PRACTICAL, AND SHALL BE RESTORED, IMPROVED OR TEMPORARILY STABILIZED WITHIN 48 HOURS OF COMPLETION OF WORK.
- CONCRETE WASHOUTS SHALL BE USED TO CONTAIN CONCRETE WASHOUT AND WASTE MATERIAL. CONCRETE WASHOUTS SHALL BE MAINTAINED AS NECESSARY TO NOT ALLOW WASTE MATERIAL TO ESCAPE THE WASHOUT. LOCATIONS SHALL BE APPROVED BY ENGINEER, PER THE NEW YORK STATE STANDARDS FOR EROSION AND SEDIMENT CONTROL, LATEST EDITION.

F. GRADING AND DRAINAGE NOTES

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

- ELEVATIONS GIVEN ARE TO FINISH GRADE UNLESS OTHERWISE SHOWN.
- MAINTAIN LOOSE AND UNDISTURBED BIORETENTION SUBGRADE. SCARIFY TOP 6 INCHES OF SUBGRADE. DO NOT ALLOW CONSTRUCTION EQUIPMENT TO TREAD ON BOTTOM SURFACE OR WITHIN A VERTICAL FOOT OF THE BOTTOM..
- WHEN ENCOUNTERED WITHIN THE REQUIRED STORMWATER FACILITY EXCAVATION, CONTRACTOR SHALL WRAP EXISTING UTILITIES WITH 40 MIL GEOMEMBRANE SHEETING AND SECURE WITH PVC TAPE AT 2'-0" OC (MAX) OVERLAP SHEETING BY 2'-0" (MIN). EXTEND SHEETING A MINIMUM OF 1 OF THE PIPE CIRCUMFERENCE AND ENSURE OVERLAP RUNS ALONG THE CROWN OF THE PIPE. SLEEVES AND CASTINGS SHALL BE DRY AND MOISTURE FREE BEFORE SEALING.
- ALL GRATES AND COVERS FOR STORM SEWER STRUCTURES SHALL BE LOCKABLE EXCEPT CITY OF SYRACUSE TYPE A CATCH BASINS.
- PROVIDE PERMANENT FILTER INSERTS FOR ALL NEW STORM DRAINAGE INLETS AND CATCH BASINS, AND FOR EXISTING STORM DRAINAGE INLETS AFFECTED BY GREEN INFRASTRUCTURE (GI) IMPROVEMENTS WORK AS SPECIFIED.
- MEET THE LINE AND GRADE OF EXISTING CONDITIONS AT THE LIMITS OF WORK. TRANSITIONS TO EXISTING CONDITIONS SHALL BE SMOOTH AND UNIFORM WITHOUT ABRUPT CHANGES IN GRADE.
- CLEAN AND RESTORE EXISTING DRAINAGE DITCHES AND/OR PIPES TO REMAIN THAT ARE AFFECTED BY CONSTRUCTION TO FUNCTIONING CONDITION.
- TOP DRESS WITH MINIMUM 6" OF TOP SOIL, SEED AND MULCH ALL LAWN AREAS DISTURBED BY THE CONSTRUCTION AS SOON AS THE FINISHED GRADING OPERATION IS COMPLETED.
- THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING RIM ELEVATIONS IN THE FIELD.
- THE ENGINEER WILL REVIEW THE LAYOUT OF ALL UTILITIES IN THE FIELD BEFORE INSTALLATION. THE CONTRACTOR SHALL SCHEDULE 72 HOURS ADVANCED NOTIFICATION TO THE ENGINEER TO FACILITATE TIMELY REVIEW.
- ADJUST THE RIM ELEVATIONS OF EXISTING UTILITY STRUCTURES SCHEDULED TO REMAIN TO BE FLUSH WITH THE FINISHED GRADE ELEVATIONS.
- WHEN PLACING PIPE IN THE EXCAVATION, POSITION THE BELL OF THE PIPE ON THE UPSTREAM END.
- THE CONTRACTOR SHALL SEE THAT ALL NECESSARY PERMITS, CERTIFICATIONS, AND/OR INSPECTIONS REQUIRED BY CODES AND/OR UTILITY SERVICE PROVIDERS, SHALL BE PERFORMED/OBTAINED PRIOR TO FINAL CONNECTION OF SERVICES.
- FOR WORK WITHIN THE RIGHT-OF-WAY, THE REQUIREMENTS OF THE HIGHWAY OWNER SHALL BE ADHERED TO FOR ITEMS ABOVE THE PIPE BEDDING, INCLUDING, BUT NOT LIMITED TO, MAINTENANCE AND PROTECTION OF TRAFFIC, BACKFILL MATERIAL, AND SURFACE RESTORATION.
- ALL EXPOSED BOLTS, RODS, OR METALS TO BE BURIED SHALL BE COATED WITH COAL TAR TO PREVENT CORROSION.
- THE CONTRACTOR SHALL MAINTAIN EXISTING SANITARY SEWER AND WATER SERVICES AT ALL TIMES, EXCEPT DURING APPROVED AND SCHEDULED INTERRUPTIONS.
- ROOTS SHALL BE REMOVED FROM EXISTING PIPES IN THE DESIGNATED SECTIONS WHERE ROOT INTRUSION IS A PROBLEM. ROOTS SHALL BE REMOVED WITH HIGH-VELOCITY JET CLEANERS COMBINED WITH A ROOT CUTTING BLADE OF APPROPRIATE SIZE. AFTER ROOTS HAVE BEEN CUT, POST CLEANING AND TELEVISION OF THE DESIGNATED SECTIONS IS REQUIRED. ACCEPTANCE OF ROOT REMOVAL SHALL BE MADE UPON COMPLETION OF THE TELEVISION INSPECTION AND SHALL BE TO THE SATISFACTION OF THE ENGINEER. THE CONTRACTOR SHALL PROVIDE THE TELEVISION INSPECTION AT NO ADDITIONAL COST TO THE OWNER.
- ALL STRUCTURES SHALL MEET AASHTO H20 LOADING REQUIREMENTS, UNLESS OTHERWISE NOTED.
- ANY NEW LATERALS SHALL BE INSTALLED WITH A MINIMUM 1/4" PER FOOT SLOPE.
- THE CONTRACTOR IS RESPONSIBLE FOR HANDLING, CUTTING AND DISPOSAL OF ALL ASBESTOS CEMENT (AC) PIPE TO BE REMOVED OR CUT IN ACCORDANCE WITH ALL APPLICABLE REGULATIONS.

- ALL PROPOSED MANHOLE RIMS ARE TO BE ADJUSTED TO MEET FINISHED GRADE, AS REQUIRED.
- ALL EXISTING DRAINAGE FACILITIES SHALL BE MAINTAINED FREE OF DEBRIS AND FOREIGN MATTER AND BE IN OPERATION THROUGHOUT CONSTRUCTION.
- PROVIDE FILTER INSERTS FOR ALL GRATED STRUCTURES RECEIVING STORM DRAINAGE. CATCH BASIN FILTER INSERT (P.I. 1.19A) PVC DOMED RISER STRUCTURE (P.I. 1.19D).
- CONTRACTOR TO VERIFY EXISTING SEWER LOCATION AND INVERT ELEVATIONS PRIOR TO START OF WORK.

G. PLANTING AND SEEDING NOTES

- REPAIR ALL DISTURBED AREAS NOT DESIGNATED FOR OTHER SURFACE TREATMENT BY INSTALLING TOPSOIL, SEED AND MULCH AS SPECIFIED TO ESTABLISH LAWN.
- INSTALL 2" DEPTH OF MULCH AS SPECIFIED IN ALL PLANTINGS BEDS, EXCEPT AS INDICATED OTHERWISE.
- PROVIDE 4" DEPTH TOPSOIL IN ALL LAWN, NO-MOW LAWN, NATURAL VEGETATION AND PLANTING AREAS. UNLESS OTHERWISE INDICATED ON THE PLANS
- PLANTING WARRANTY PERIOD IS ONE YEAR. CONTRACTOR IS RESPONSIBLE FOR PROTECTION AND MAINTENANCE DURING THIS PERIOD, AS SPECIFIED.

H. SIDEWALK/ADA RAMP NOTES

- ADA RAMP REPLACEMENT IS REQUIRED IF ADA RAMPS ARE DIRECTLY DISTURBED, OR IF ROADWAY MILLING AND PAVING OPERATIONS EXTEND INTO INTERSECTIONS AND AROUND ADA RAMPS. IF ONE ADA RAMP IS DISTURBED, THE REMAINING ADA RAMPS WITHIN THE INTERSECTION ARE ALSO REQUIRED TO BE REPLACED AND BROUGHT INTO ADA COMPLIANCE, IF NOT ALREADY COMPLIANT.
- WHEN REPLACING ADA RAMPS, THE CONTRACTOR IS REQUIRED TO EXTEND INSTALLATION OF ADA COMPLIANT SIDEWALK A MAXIMUM OF 15 FEET BEYOND THE ADA RAMP TO TIE INTO THE EXISTING SIDEWALK. THE LAST FLAG OF SIDEWALK REPLACEMENT MAY BE PLACED OUT OF ADA COMPLIANCE TO FACILITATE TYING INTO EXISTING SIDEWALK.
- AT MID-BLOCK SIDEWALK REPLACEMENTS (I.E. NOT AT ADA RAMPS) THE CONTRACTOR SHALL REPLACE THE DISTURBED SIDEWALK FLAGS AND ONE ADDITIONAL NON-COMPLIANT FLAG ON EITHER SIDE OF THE REPLACED FLAGS TO TIE INTO THE EXISTING SIDEWALK.
- WHEN INSTALLING NEW SIDEWALK THAT REPLACES SIDEWALK THAT WAS PREVIOUSLY LESS THAN THE STANDARD 5 FOOT WIDTH, THE CONTRACTOR SHALL MAINTAIN THE BACK EDGE OF THE SIDEWALK AND EXTEND THE ADDED SIDEWALK WIDTH TOWARD CURB, UNLESS OTHERWISE APPROVED BY THE ENGINEER.
- WHEN NEW SIDEWALK ENCROACHES UPON EXISTING MATURE TREES, THE SIDEWALK WIDTH IS ALLOWED TO DECREASE TO MINIMUM 4' WIDTH AROUND THE TREE. THE TEMPORARY DECREASE IN SIDEWALK WIDTH AROUND TREES MUST BE APPROVED BY THE ENGINEER PRIOR TO PLACEMENT.



HARBOR BROOK GREEN STREETS
ONONDAGA COUNTY WATER
ENVIRONMENT PROTECTION
SYRACUSE, NEW YORK
ONONDAGA COUNTY

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GENERAL NOTES

SCALE: NO SCALE

DRAWING GNN-2

SHEET NO. 5

Project No. 17-S0182N-001

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△	RECORD DWG SURVEY LANDLINE	09.12.19
△	RECORD DWG INSPECTION JMT	03.27.20

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GENERAL PLANS
 MAGNOLIA

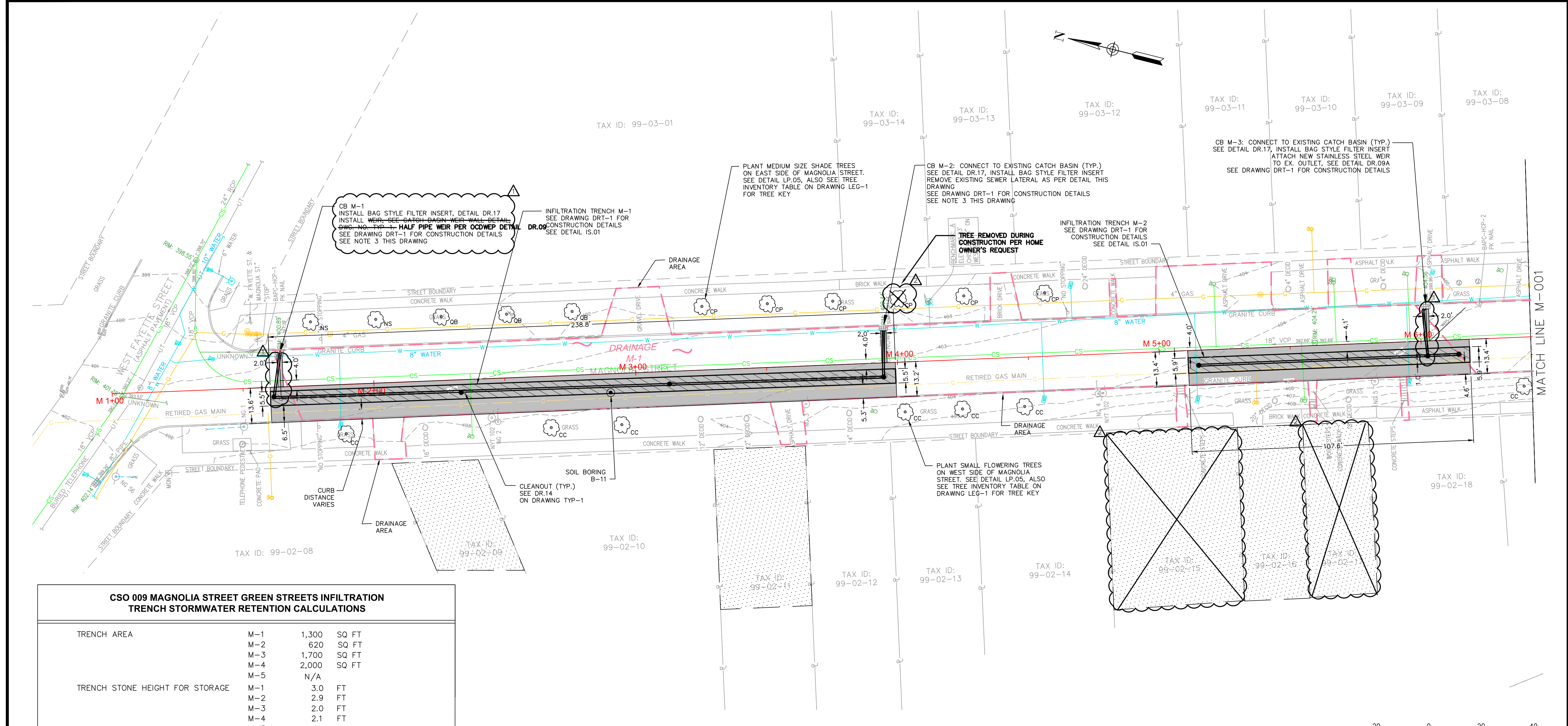
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DRAWING GNP-1

SHEET NO. 6

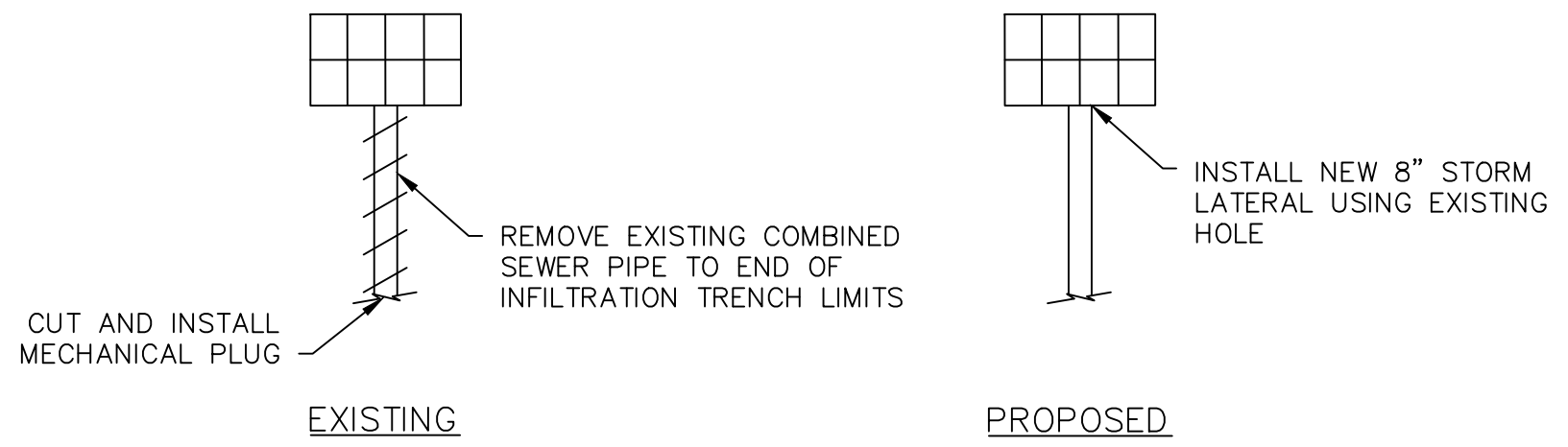


REVISION NO. 1: AS-BUILT PLAN INFORMATION TRANSFERRED FROM PLANS PREPARED BY LANDLINES SURVEYING P.C. 6181 JAMESVILLE TOLL ROAD, JAMESVILLE, NY 13078 315-492-4604. SEE ATTACHED DRAWINGS 190854, 190605, 191002 SHEETS 1 THROUGH 9 DATED SEPTEMBER 12, 2019



CSO 009 MAGNOLIA STREET GREEN STREETS INFILTRATION TRENCH STORMWATER RETENTION CALCULATIONS			
TRENCH AREA	M-1	1,300	SQ FT
	M-2	620	SQ FT
	M-3	1,700	SQ FT
	M-4	2,000	SQ FT
	M-5	N/A	
TRENCH STONE HEIGHT FOR STORAGE	M-1	3.0	FT
	M-2	2.9	FT
	M-3	2.0	FT
	M-4	2.1	FT
	M-5	N/A	
INFILTRATION RATE	B-11	16.5	IN/HR
	B-12	16.5	IN/HR
	B-13	16.5	IN/HR
DESIGN EVENT		1.25	IN
DRAINAGE AREA	M-1	14,577	SQ FT
	M-2	6,724	SQ FT
	M-3	13,008	SQ FT
	M-4	15,879	SQ FT
	M-5	39,112	SQ FT
TRENCH LOADING	M-1	11.2	:1
	M-2	10.8	:1
	M-3	7.7	:1
	M-4	7.9	:1
	M-5	N/A	
RUNOFF VOLUME DESIGN EVENT		5,228	CU FT
INFILTRATION BASIN POROSITY		40%	
TIME TO DEWATER DESIGN EVENT	M-1	2.2	HRS
	M-2	2.1	HRS
	M-3	1.5	HRS
	M-4	1.5	HRS
	M-5	N/A	
MAXIMUM STORMWATER RETENTION:		5,319	CU FT
	ANNUAL RUNOFF REDUCTION	886,168	GAL. (TRENCHES 1-4)
		690,599	GAL. (DRAINAGE AREA 5)

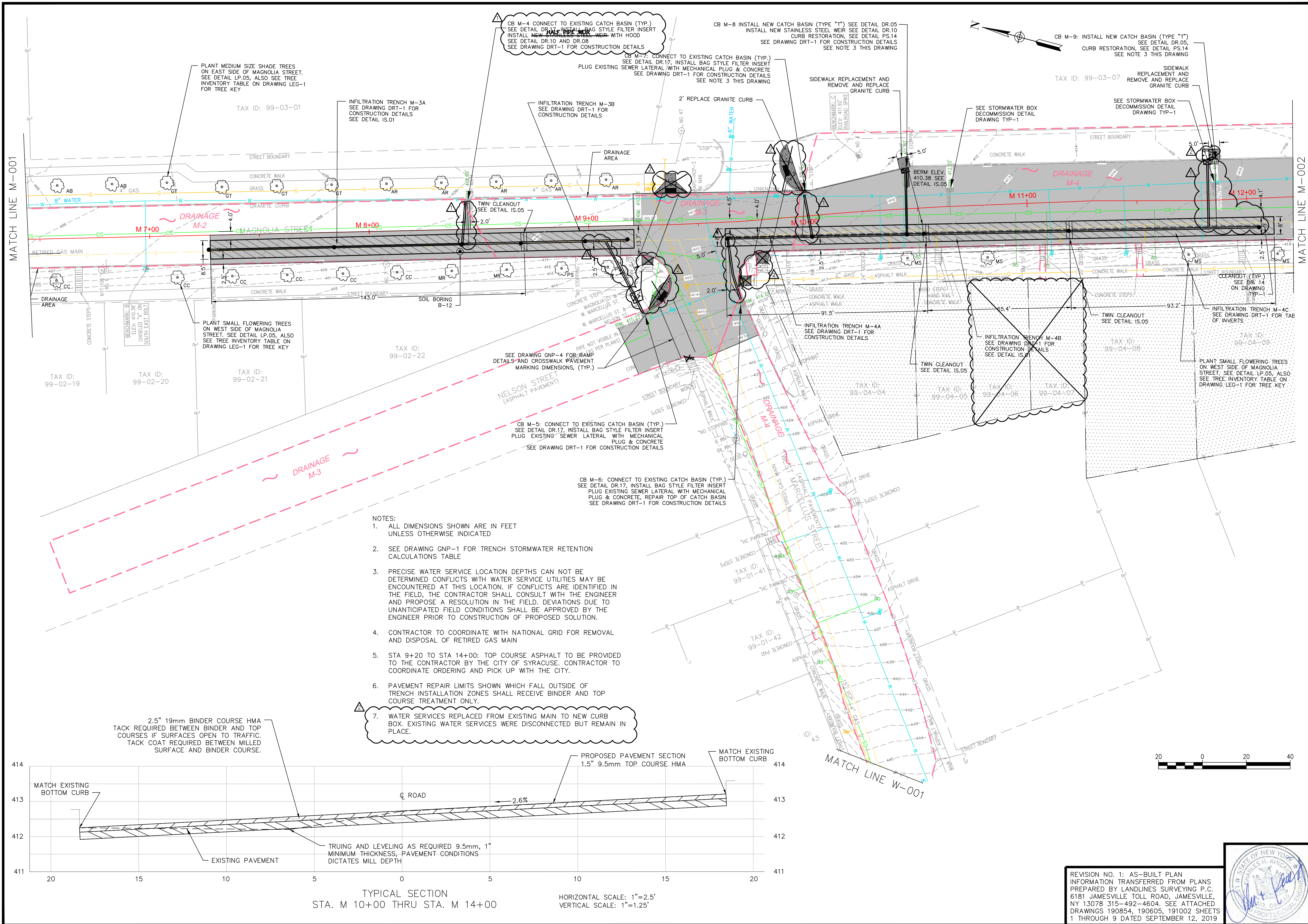
NOTE:
 INFILTRATION MEASURED ON APRIL 27, 2018 BY ATLANTIC TESTING LABORATORIES. RATES AT MAGNOLIA WERE TOO RAPID TO BE MEASURED. RATE TAKEN AS MAXIMUM OF 33 IN/HR OBSERVED AT TEST HOLE B-6 (GENESEE ST.) DIVIDED BY SAFETY FACTOR OF 2. DRAINAGE AREA M-5 RUNOFF REDUCTION ASSOCIATED WITH RETROFITTING C.B. M-11 TO CONNECT TO CB M-10 CURRENTLY SEPARATED TO HARBOR BROOK.



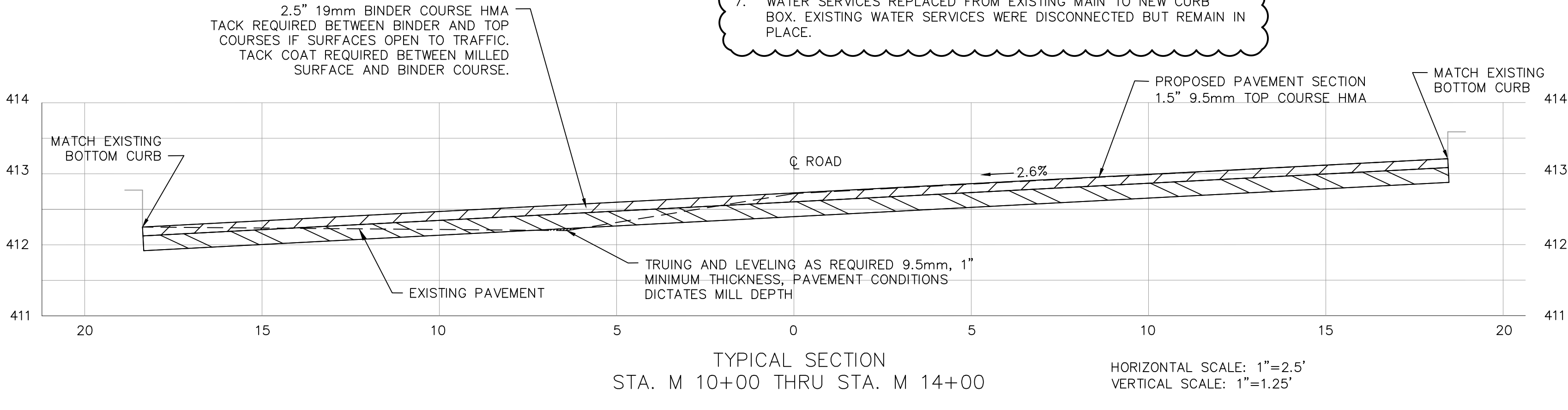
REMOVAL OF EXISTING SEWER LATERAL WITH A NEW OUTLET PIPE
 N.T.S.

- NOTES:
- ALL DIMENSIONS SHOWN ARE IN FEET UNLESS OTHERWISE INDICATED
 - CONTRACTOR TO COORDINATE WITH NATIONAL GRID FOR REMOVAL AND DISPOSAL OF RETIRED GAS MAIN.
 - PRECISE WATER SERVICE LOCATION DEPTHS CAN NOT BE DETERMINED. CONFLICTS WITH WATER SERVICE UTILITIES MAY BE ENCOUNTERED AT THIS LOCATION. IF CONFLICTS ARE IDENTIFIED IN THE FIELD, THE CONTRACTOR SHALL CONSULT WITH THE ENGINEER AND PROPOSE A RESOLUTION IN THE FIELD. DEVIATIONS DUE TO UNANTICIPATED FIELD CONDITIONS SHALL BE APPROVED BY THE ENGINEER PRIOR TO CONSTRUCTION OF PROPOSED SOLUTION.
 - WATER SERVICES REPLACED FROM EXISTING MAIN TO NEW CURB BOX. EXISTING WATER SERVICES WERE DISCONNECTED BUT REMAIN IN PLACE.





- NOTES:
1. ALL DIMENSIONS SHOWN ARE IN FEET UNLESS OTHERWISE INDICATED
 2. SEE DRAWING GNP-1 FOR TRENCH STORMWATER RETENTION CALCULATIONS TABLE
 3. PRECISE WATER SERVICE LOCATION DEPTHS CAN NOT BE DETERMINED CONFLICTS WITH WATER SERVICE UTILITIES MAY BE ENCOUNTERED AT THIS LOCATION. IF CONFLICTS ARE IDENTIFIED IN THE FIELD, THE CONTRACTOR SHALL CONSULT WITH THE ENGINEER AND PROPOSE A RESOLUTION IN THE FIELD. DEVIATIONS DUE TO UNANTICIPATED FIELD CONDITIONS SHALL BE APPROVED BY THE ENGINEER PRIOR TO CONSTRUCTION OF PROPOSED SOLUTION.
 4. CONTRACTOR TO COORDINATE WITH NATIONAL GRID FOR REMOVAL AND DISPOSAL OF RETIRED GAS MAIN
 5. STA 9+20 TO STA 14+00: TOP COURSE ASPHALT TO BE PROVIDED TO THE CONTRACTOR BY THE CITY OF SYRACUSE. CONTRACTOR TO COORDINATE ORDERING AND PICK UP WITH THE CITY.
 6. PAVEMENT REPAIR LIMITS SHOWN WHICH FALL OUTSIDE OF TRENCH INSTALLATION ZONES SHALL RECEIVE BINDER AND TOP COURSE TREATMENT ONLY.
 7. WATER SERVICES REPLACED FROM EXISTING MAIN TO NEW CURB BOX. EXISTING WATER SERVICES WERE DISCONNECTED BUT REMAIN IN PLACE.



REVISION NO. 1: AS-BUILT PLAN INFORMATION TRANSFERRED FROM PLANS PREPARED BY LANDLINES SURVEYING P.C. 6181 JAMESVILLE TOLL ROAD, JAMESVILLE, NY 13078 315-492-4604. SEE ATTACHED DRAWINGS 190854, 190605, 191002 SHEETS 1 THROUGH 9 DATED SEPTEMBER 12, 2019



sym.	Revisions	date
△	RECORD DWG SURVEY LANDLINE	09.12.19
△	RECORD DWG INSPECTION JMT	03.27.20

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CHECKED BY:	CHK



HARBOR BROOK GREEN STREETS
 ONONDAGA COUNTY WATER
 ENVIRONMENT PROTECTION
 MAGNOLIA STREET
 SYRACUSE, NEW YORK
 ONONDAGA COUNTY

sym.	Revisions	date

PROJECT NO: 17-S0182N-001
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GENERAL PLANS
MAGNOLIA

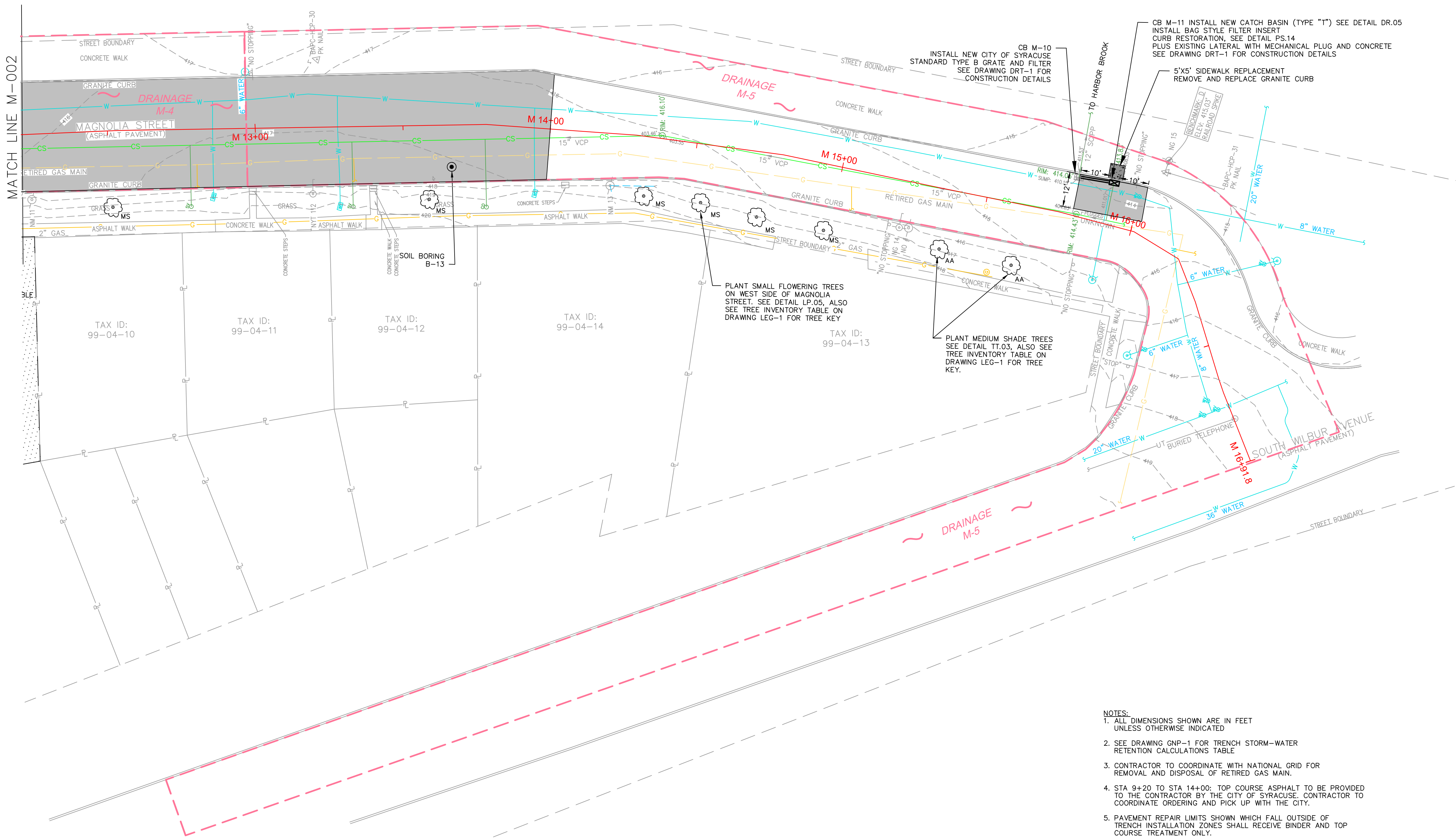
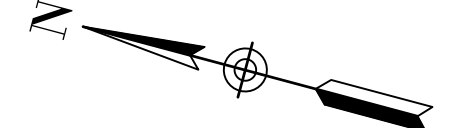
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DRAWING GNP-3

SHEET NO. 8



TAX ID: 99-03-07



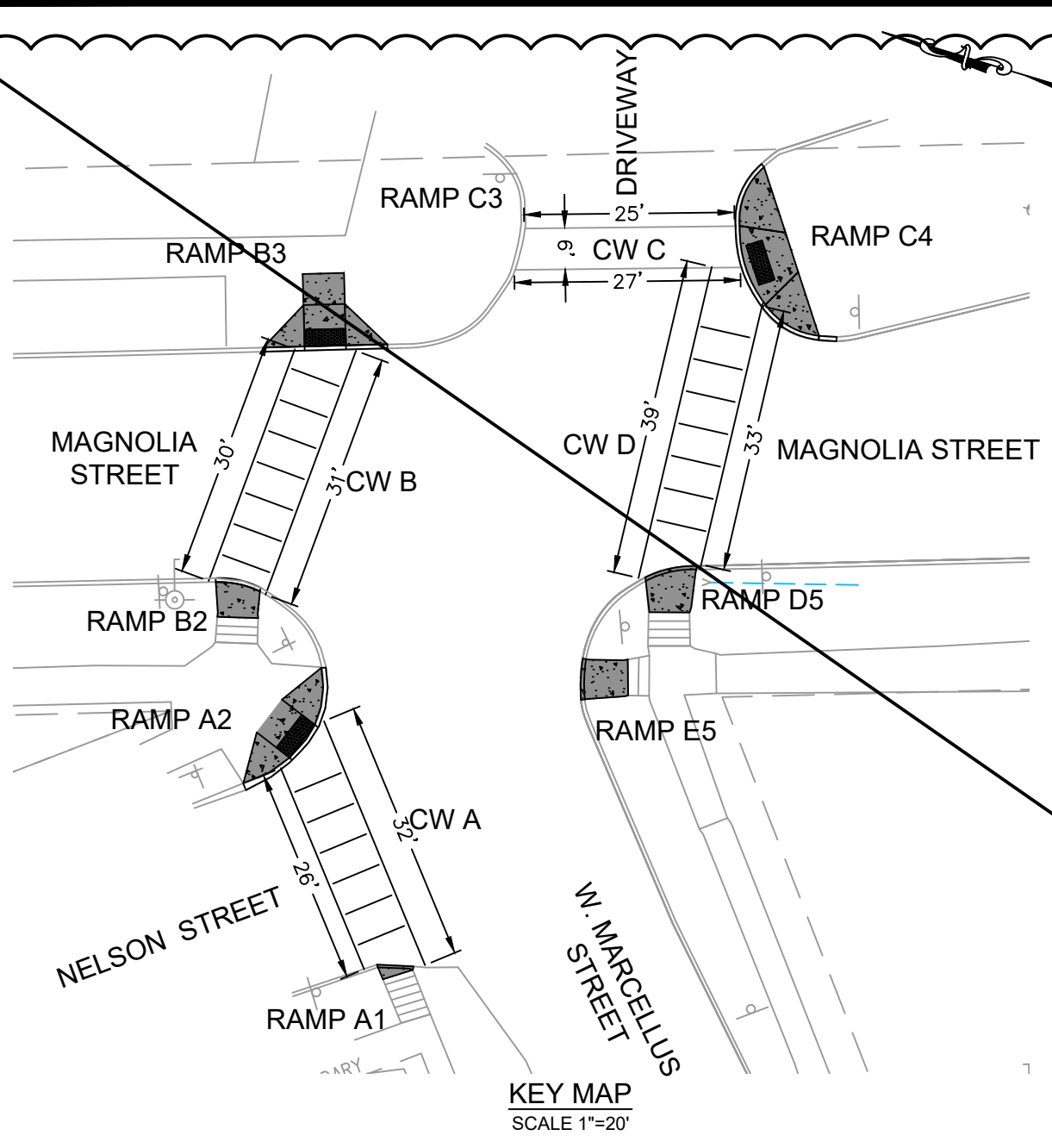
- NOTES:**
1. ALL DIMENSIONS SHOWN ARE IN FEET UNLESS OTHERWISE INDICATED
 2. SEE DRAWING GNP-1 FOR TRENCH STORM-WATER RETENTION CALCULATIONS TABLE
 3. CONTRACTOR TO COORDINATE WITH NATIONAL GRID FOR REMOVAL AND DISPOSAL OF RETIRED GAS MAIN.
 4. STA 9+20 TO STA 14+00: TOP COURSE ASPHALT TO BE PROVIDED TO THE CONTRACTOR BY THE CITY OF SYRACUSE. CONTRACTOR TO COORDINATE ORDERING AND PICK UP WITH THE CITY.
 5. PAVEMENT REPAIR LIMITS SHOWN WHICH FALL OUTSIDE OF TRENCH INSTALLATION ZONES SHALL RECEIVE BINDER AND TOP COURSE TREATMENT ONLY.



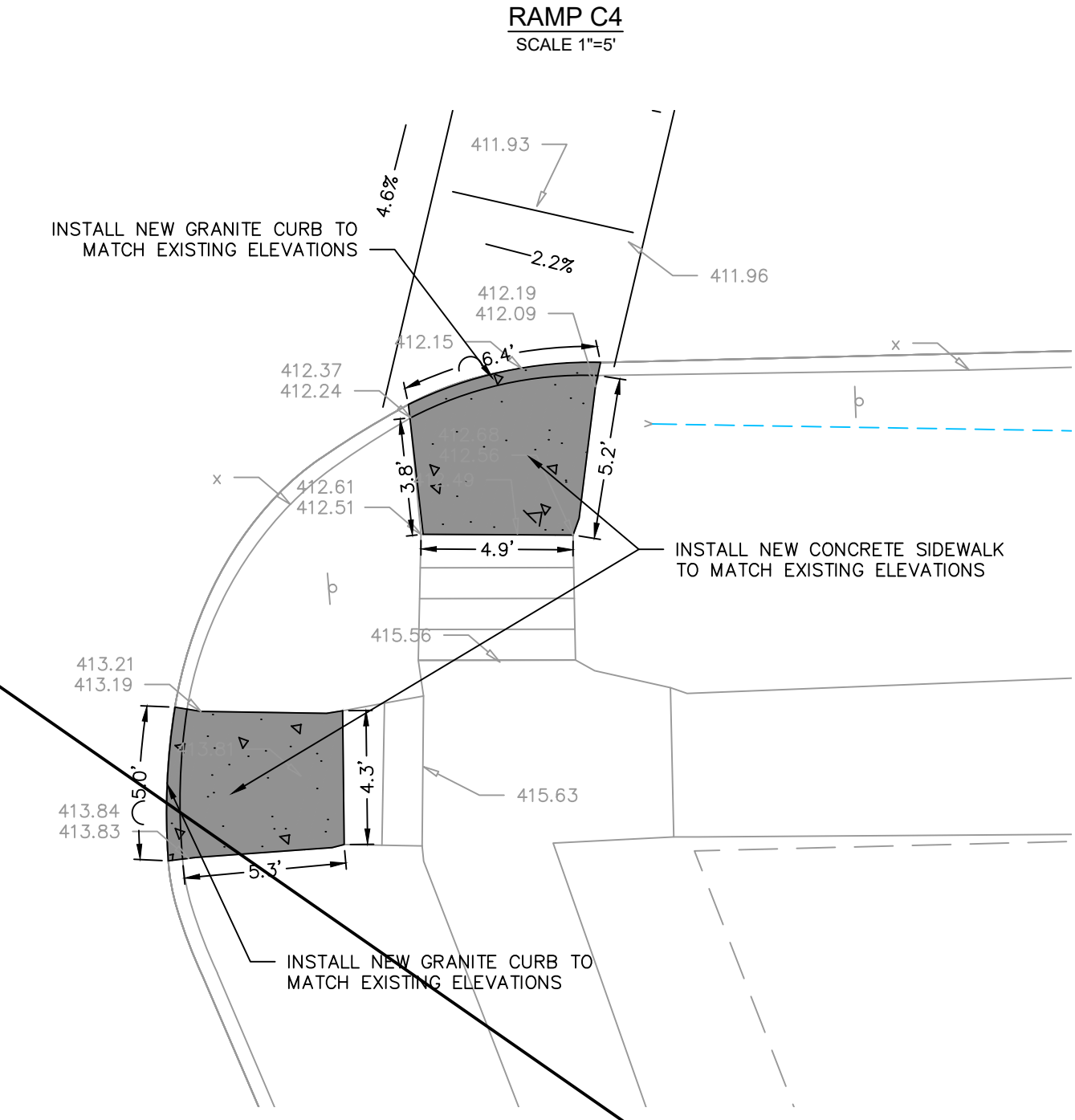
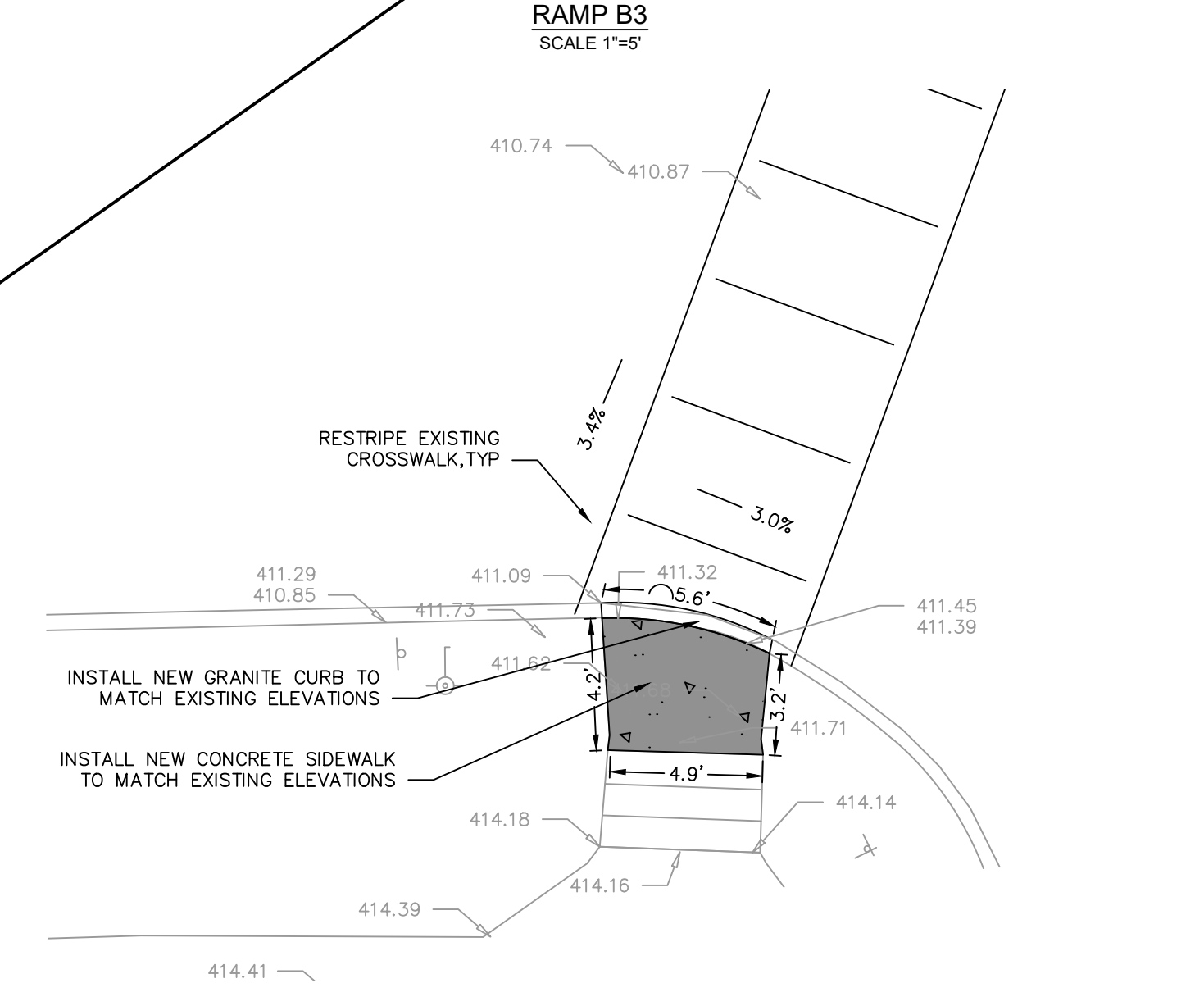
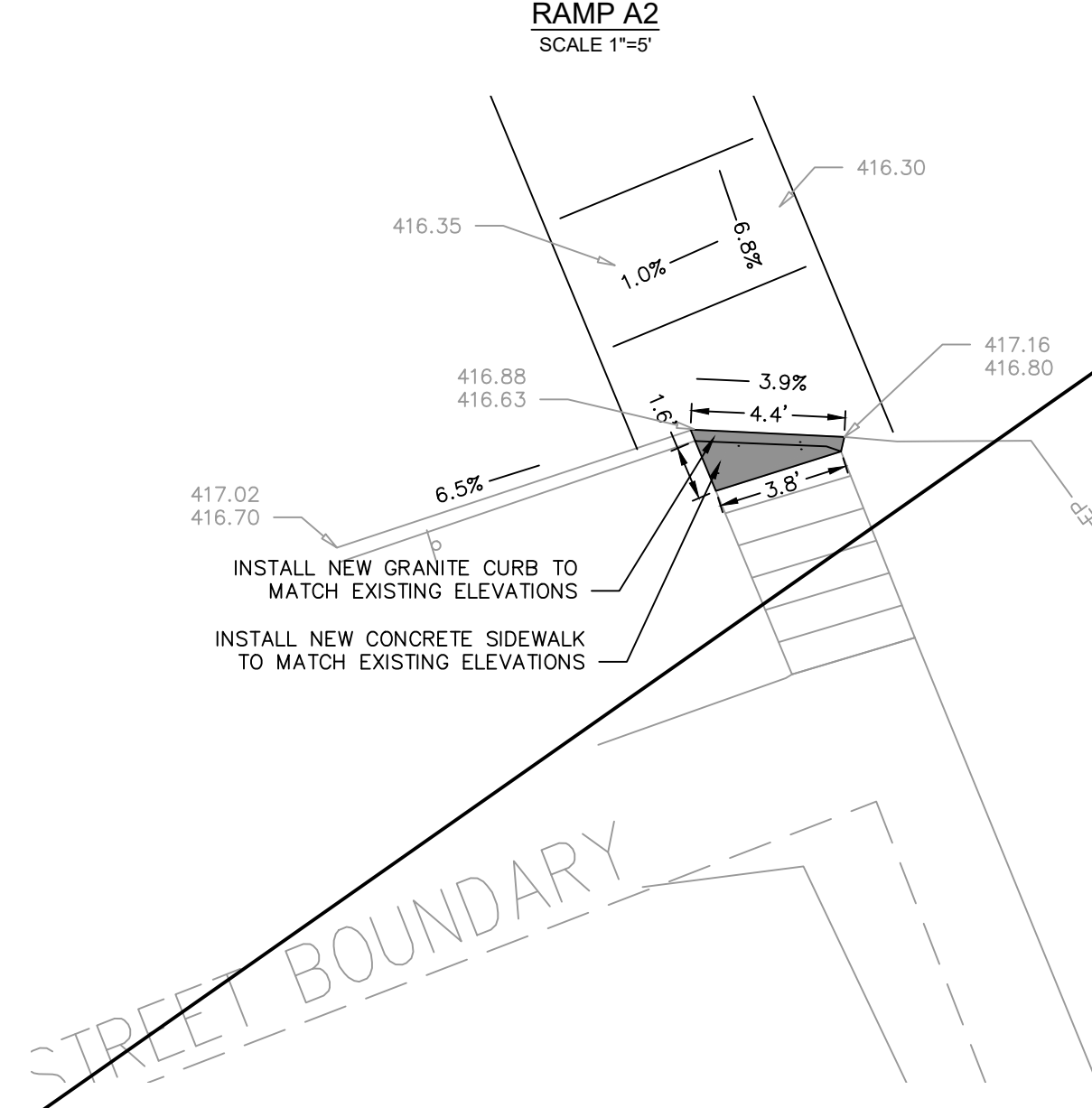
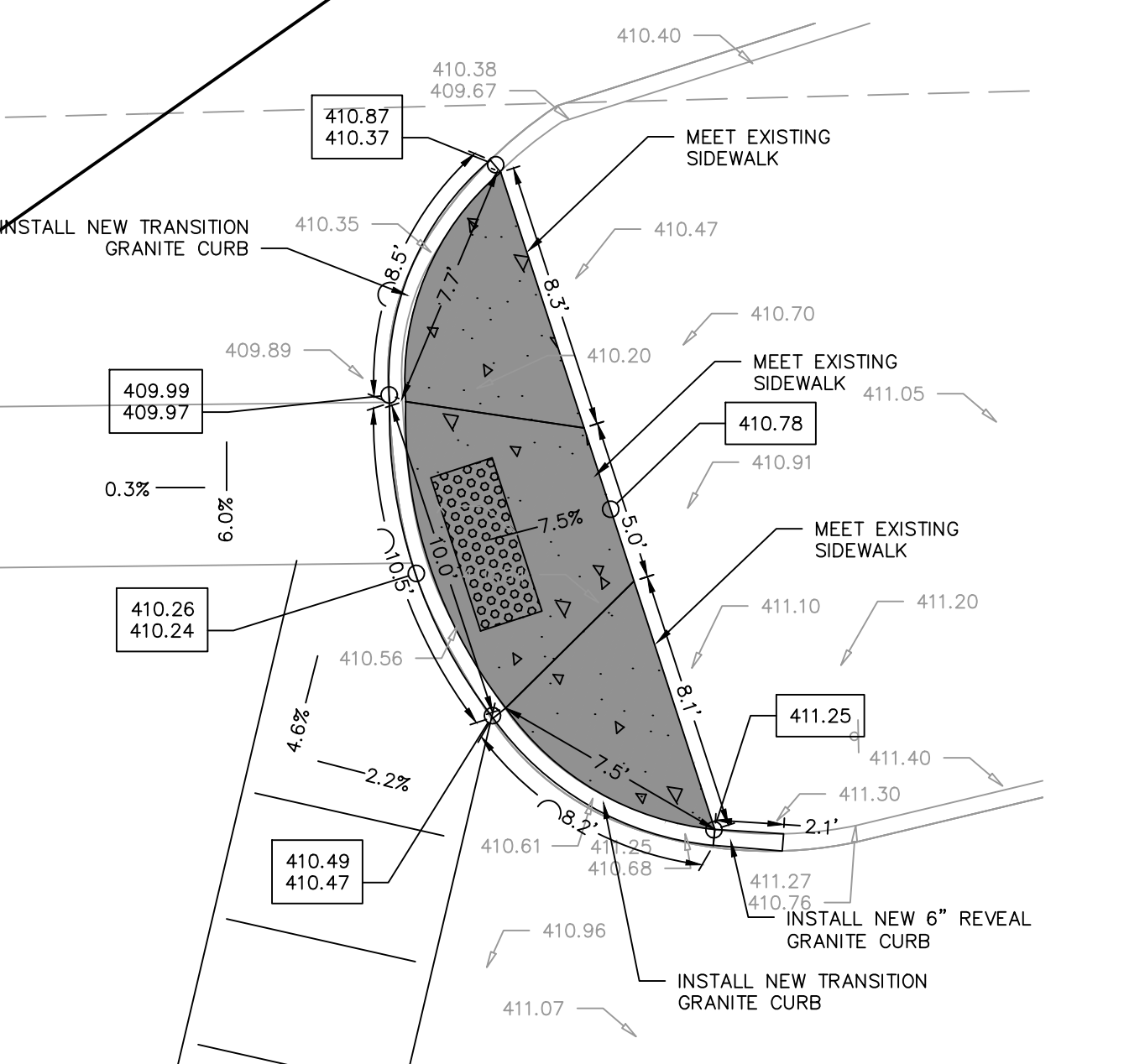
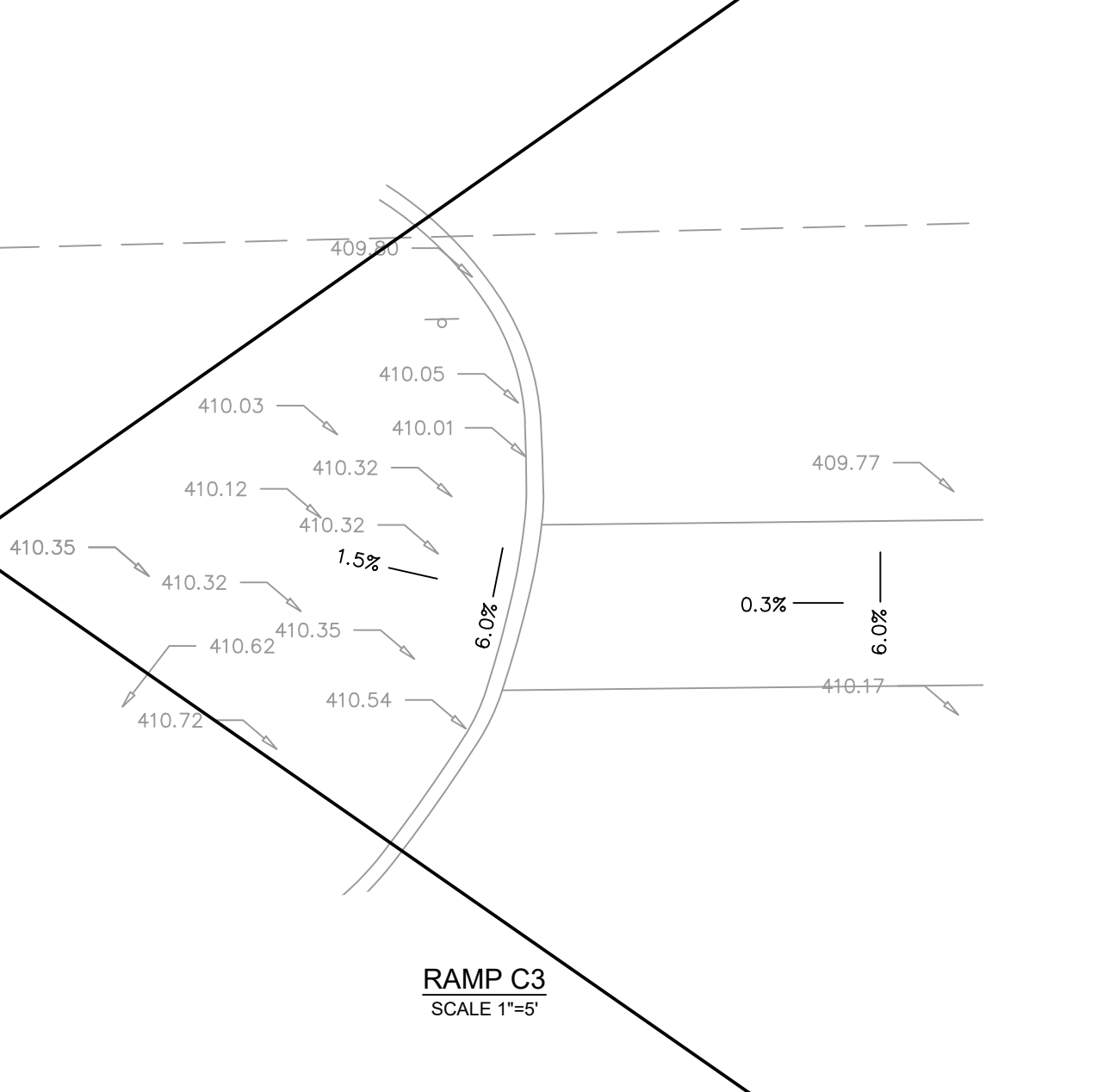
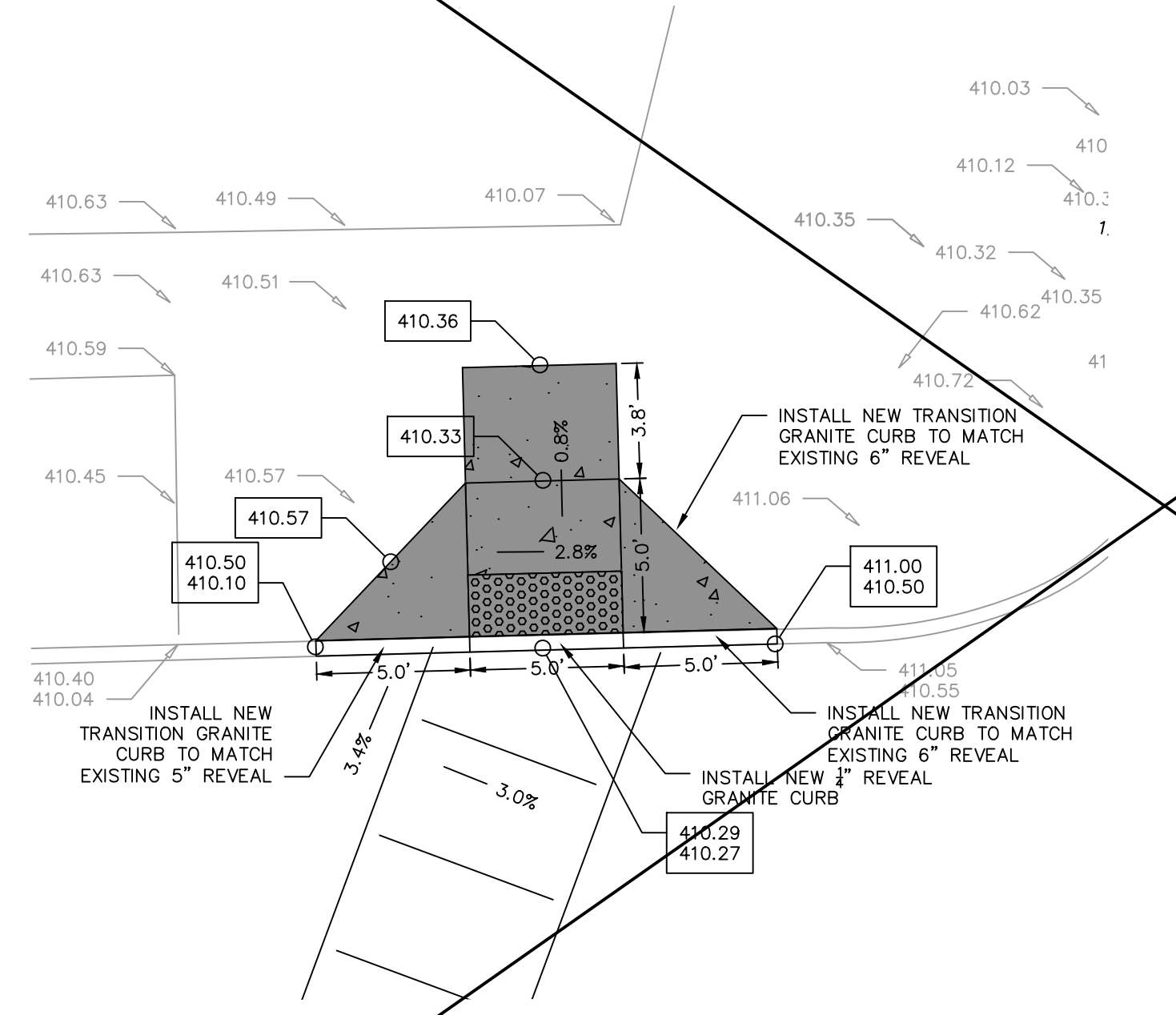
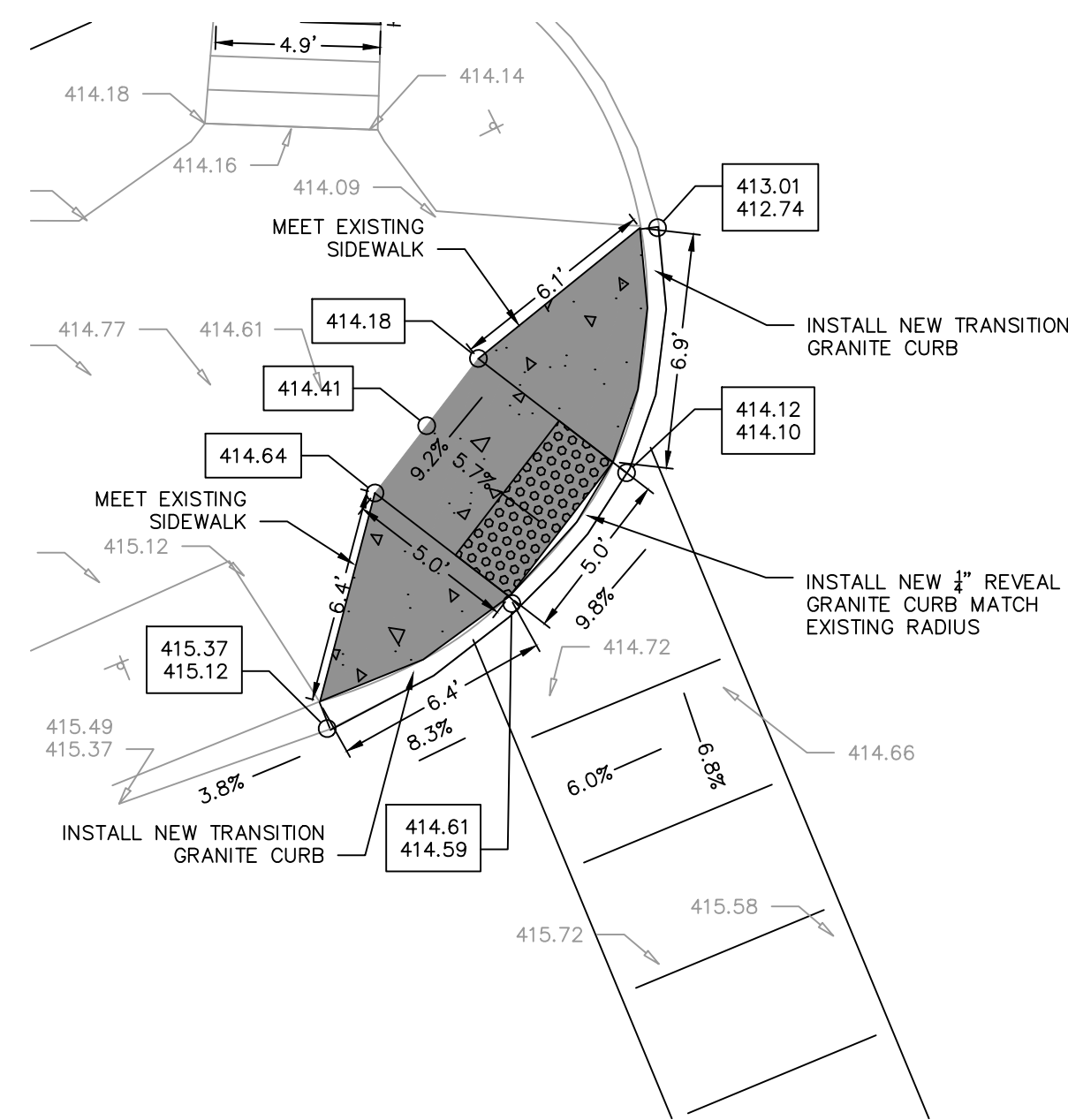
MATCH LINE M-002

31E

RAMP NO.	ROADWAY	SIDE	ACTION	TYPE
A1	NELSON	WEST	REPAIR BOTTOM OF STEP	N/A
A2	NELSON	EAST	NEW RAMP (PS.13)	5' WIDE RAMP
B2	MAGNOLIA	WEST	REPAIR BOTTOM OF STEP	N/A
B3	MAGNOLIA	EAST	NEW RAMP (PS.13)	5' WIDE RAMP
C3	DRIVEWAY	NORTH	MAINTAIN EXISTING RAMP	5' WIDE RAMP
C4	DRIVEWAY	SOUTH	NEW RAMP (PS.13)	10' WIDE RAMP
D5	MAGNOLIA	WEST	REPAIR BOTTOM OF STEP	N/A
E5	MARCELLUS	SOUTH	REPAIR BOTTOM OF STEP	N/A



CATCH BASIN L-1 WAS RELOCATED AS A RESULT, THE ADJACENT SIDEWALK WAS REPLACED IN THE NEW LOCATION, NOT AS DESIGNED.



LEGEND

XXX.XX	EXIST SPOT ELEV
XXX.XX	EXIST TOP ELEV
XXX.XX	EXIST BOT ELEV
XXX.XX	PROP SPOT ELEV
XXX.XX	PROP TOP ELEV
XXX.XX	PROP BOT ELEV

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INSPECTION JMT		03.27.20

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GENERAL PLANS
MAGNOLIA
RAMP DETAILS

SCALE: 1"=20'

DRAWING GNP-4

SHEET NO. 9



sym.	Revisions	date
△	RECORD DWG SURVEY LANDLINE	09.12.19
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GENERAL PLANS
 SOUTH WILBUR

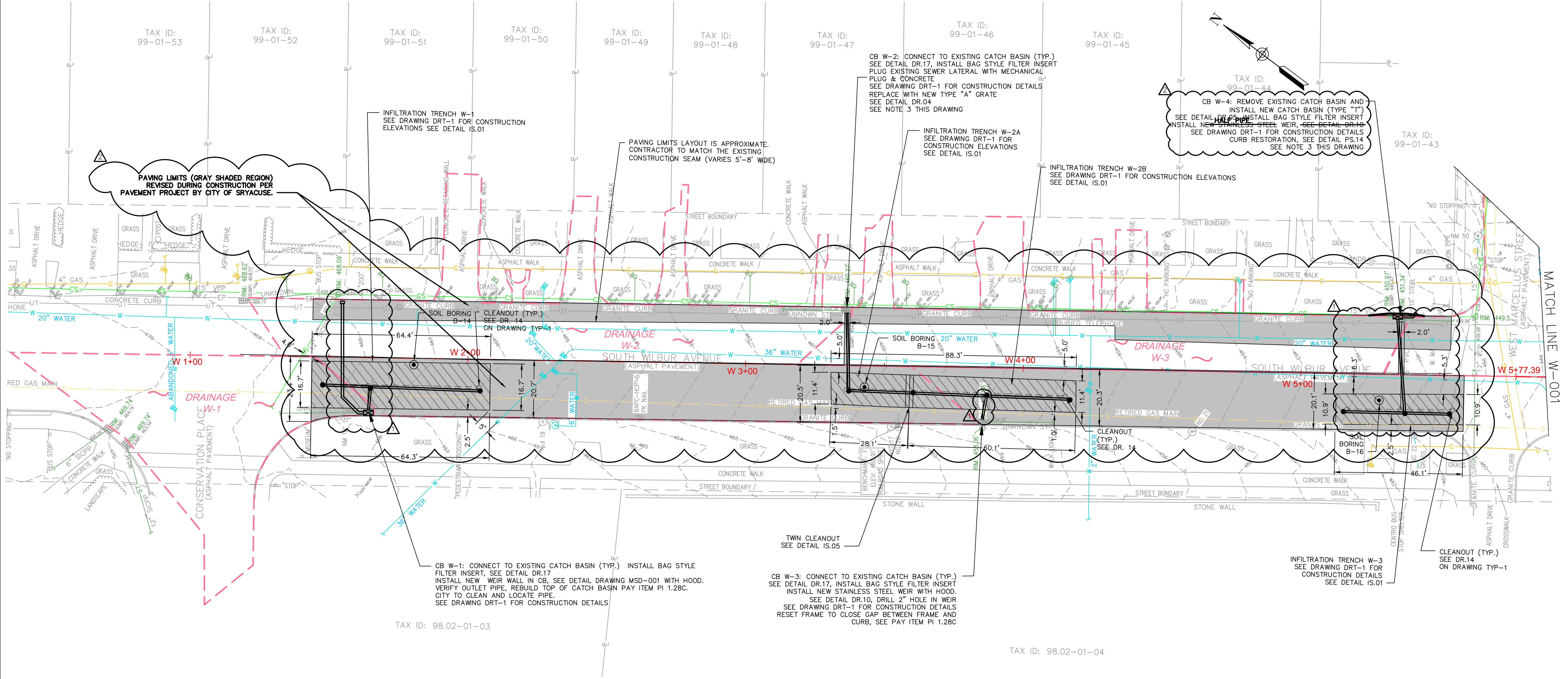
SCALE: 1"=20'

DRAWING GNP-5

SHEET NO. 10



REVISION NO. 1: AS-BUILT PLAN INFORMATION TRANSFERRED FROM PLANS PREPARED BY LANDLINES SURVEYING P.C. 6181 JAMESVILLE TOLL ROAD, JAMESVILLE, NY 13078 315-492-4604. SEE ATTACHED DRAWINGS 190854, 190605, 191002 SHEETS 1 THROUGH 9 DATED SEPTEMBER 12, 2019



CSO 009 WILBUR AVENUE GREEN STREETS INFILTRATION TRENCH STORMWATER RETENTION CALCULATIONS			
TRENCH AREA	W-1	385	SQ FT
	W-2	1,000	SQ FT
	W-3	500	SQ FT
TRENCH STONE HEIGHT FOR STORAGE	W-1	3.0	FT
	W-2	2.7	FT
	W-3	2.9	FT
INFILTRATION RATE	B-14	0.5	IN/HR
	B-15	0.3	IN/HR
	B-16	0.5	IN/HR
STORMWATER MITIGATION			
DESIGN EVENT		1.25	IN
DRAINAGE AREA	W-1	4,387	SQ FT
	W-2	10,009	SQ FT
	W-3	5,505	SQ FT
LOADING	W-1	11.4	:1
	W-2	10.0	:1
	W-3	11.0	:1
RUNOFF VOLUME DESIGN EVENT		2,073	CU FT
INFILTRATION BASIN POROSITY		40%	
TIME TO DEWATER DESIGN EVENT	W-1	72.0	HRS
	W-2	28	HRS
	W-3	69.6	HRS
MAXIMUM STORMWATER RETENTION: ANNUAL RUNOFF REDUCTION		2,122	CU FT
		351,368	GAL.

- NOTES:**
- ALL DIMENSIONS SHOWN ARE IN FEET UNLESS OTHERWISE INDICATED
 - CONTRACTOR TO COORDINATE WITH NATIONAL GRID FOR REMOVAL AND DISPOSAL OF RETIRED GAS MAIN.
 - PRECISE WATER SERVICE LOCATION DEPTHS CAN NOT BE DETERMINED. CONFLICTS WITH WATER SERVICE UTILITIES MAY BE ENCOUNTERED AT THIS LOCATION. IF CONFLICTS ARE IDENTIFIED IN THE FIELD, THE CONTRACTOR SHALL CONSULT WITH THE ENGINEER AND PROPOSE A RESOLUTION IN THE FIELD. DEVIATIONS DUE TO UNANTICIPATED FIELD CONDITIONS SHALL BE APPROVED BY THE ENGINEER PRIOR TO CONSTRUCTION OF PROPOSED SOLUTION.
 - TOP COURSE ASPHALT TO BE PROVIDED TO THE CONTRACTOR BY THE CITY OF SYRACUSE. CONTRACTOR TO COORDINATE ORDERING AND PICK UP WITH THE CITY.

NOTE:
 INFILTRATION MEASURED ON APRIL 23, 24, AND 25, 2018 BY ATLANTIC TESTING LABORATORIES. RATE PRESENTED IS AVERAGE OBSERVED AT THREE LOCATIONS DIVIDED BY FACTOR OF 2.

sym.	Revisions	date
▲	RECORD DWG INSPECTION JMT	03.27.20

PROJECT NO:	17-S0182N-001
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DESIGNED BY:	KET
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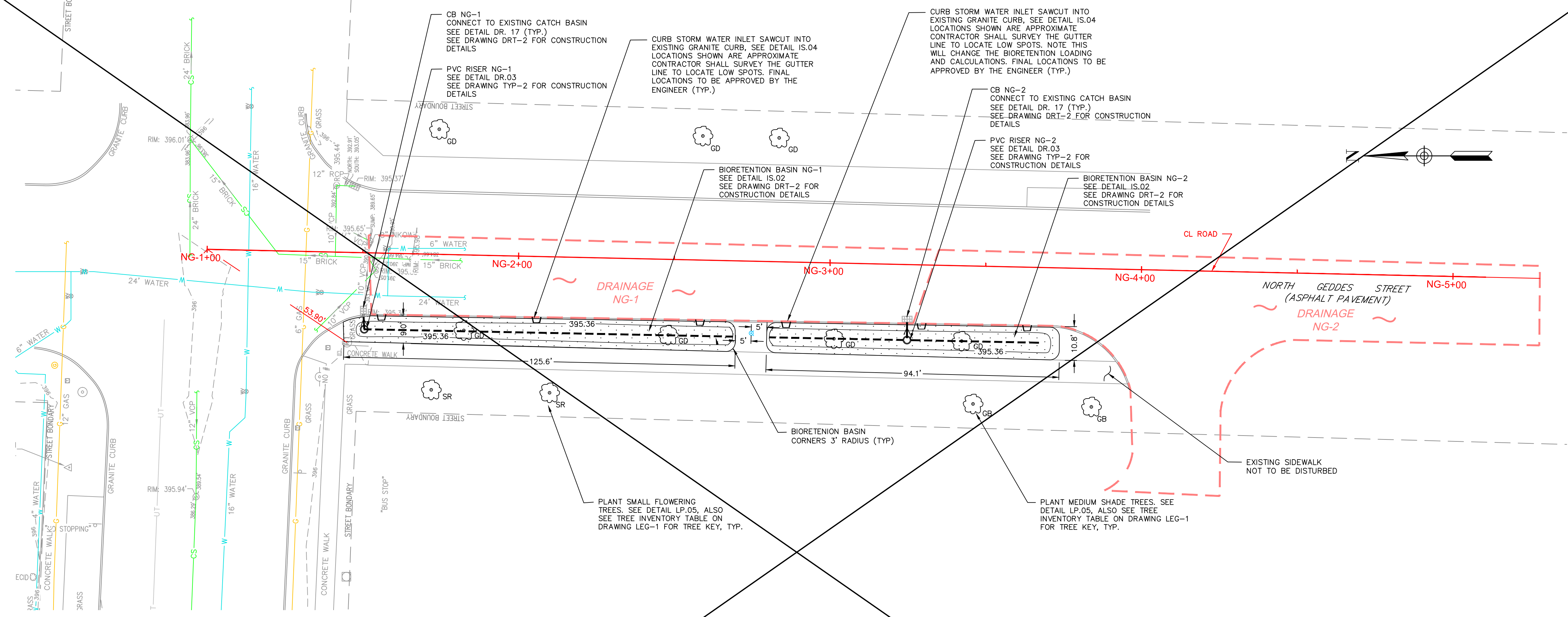
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GENERAL PLANS
NORTH GEDDES

SCALE: 1"=20'

DRAWING GNP-6

SHEET NO. 11

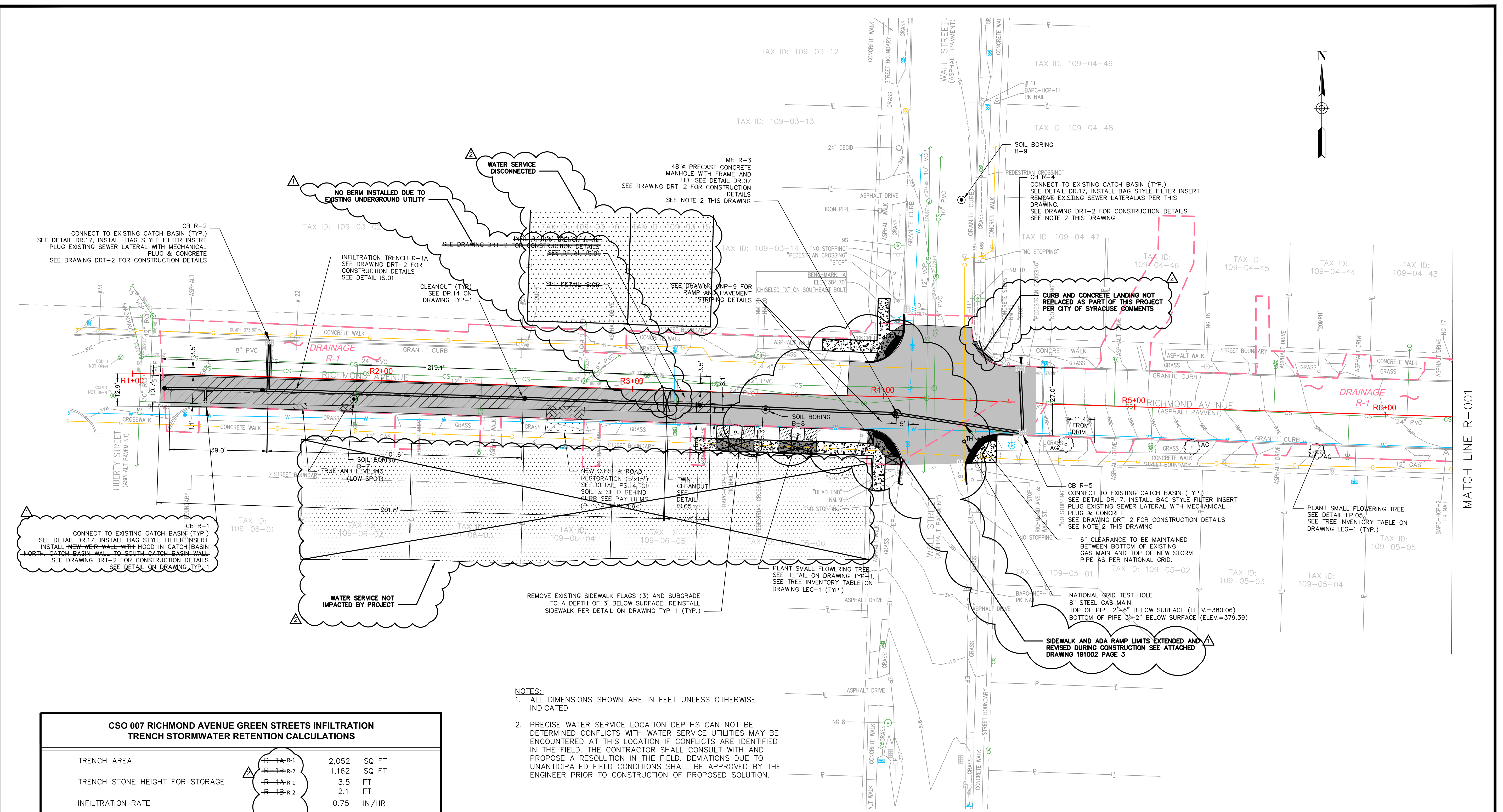


CSO 005 NORTH GEDDES STREET GREEN STREETS BIORETENTION STORMWATER RETENTION CALCULATIONS			
G1 AREA	NG-1	926	SQ FT
	NG-2	791	SQ FT
BIORETENTION SOIL MEDIUM DEPTH	NG-1	3.0	FT
	NG-2	3.0	FT
INFILTRATION RATE		16.5	IN/HR
STORMWATER MITIGATION			
DESIGN EVENT		1.25	IN
DRAINAGE AREA	NG-1	4,387	SQ FT
	NG-2	6,601	SQ FT
LOADING	NG-1	4.7	:1
	NG-2	8.3	:1
RUNOFF VOLUME DESIGN EVENT	NG-1	457	CU FT
	NG-2	688	CU FT
SOIL MEDIUM POROSITY		20%	
MAXIMUM TIME TO DEWATER DESIGN EVENT	NG-1	1.8	HRS
	NG-2	2.3	HRS
MAXIMUM STORMWATER RETENTION:	NG-1	864	CU FT
	NG-2	738	CU FT
ANNUAL RUNOFF REDUCTION		194,002	GAL.

- NOTES:
1. ALL DIMENSIONS SHOWN ARE IN FEET UNLESS OTHERWISE INDICATED.
 2. BIO-RETENTION AREAS TO BE COVERED IN SOD.
 3. SOIL FOR BIORETENTION AREAS SEE PI 1.11

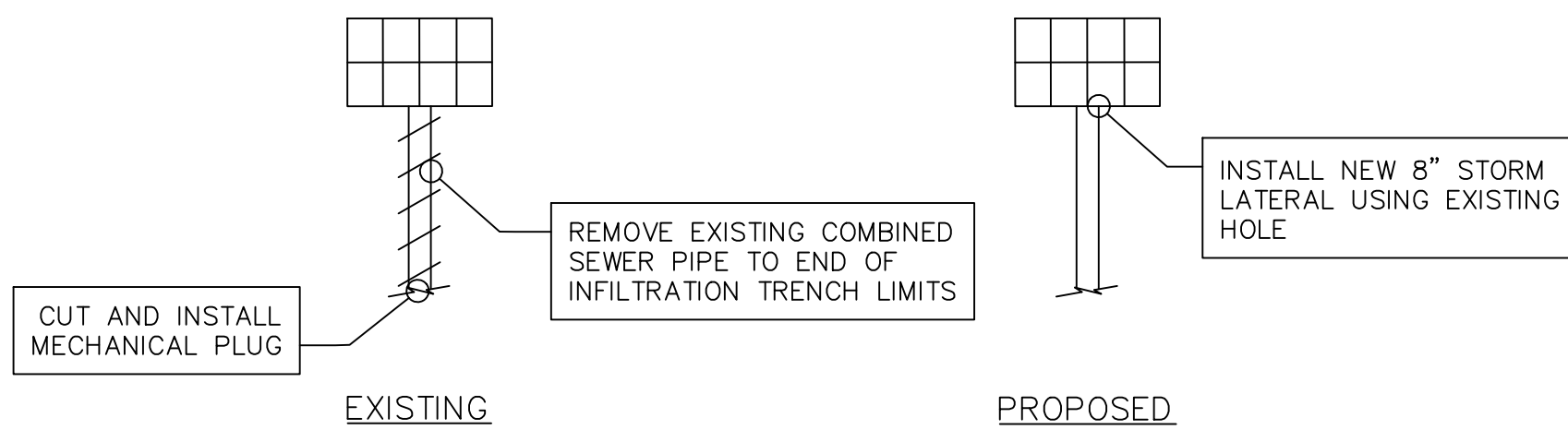


- NOTES:
1. INFILTRATION MEASURED ON APRIL 27, 2018 BY ATLANTIC TESTING LABORATORIES. RATE PRESENTED IS INFILTRATION MEASURED AT CLOSEST LOCATION (B-6) THIS SHEET, DIVIDED BY SAFETY FACTOR OF 2.
 2. THE QUANTITIES ON THIS TABLE ARE BASED ON THE CURB STORMWATER INLETS AS DETAILED ON THIS PLAN. ANY CHANGES TO THE LOCATIONS OF THE PROPOSED INLETS WILL CHANGE THESE CALCULATIONS.



- NOTES:**
- ALL DIMENSIONS SHOWN ARE IN FEET UNLESS OTHERWISE INDICATED
 - PRECISE WATER SERVICE LOCATION DEPTHS CAN NOT BE DETERMINED CONFLICTS WITH WATER SERVICE UTILITIES MAY BE ENCOUNTERED AT THIS LOCATION IF CONFLICTS ARE IDENTIFIED IN THE FIELD. THE CONTRACTOR SHALL CONSULT WITH AND PROPOSE A RESOLUTION IN THE FIELD. DEVIATIONS DUE TO UNANTICIPATED FIELD CONDITIONS SHALL BE APPROVED BY THE ENGINEER PRIOR TO CONSTRUCTION OF PROPOSED SOLUTION.

CSO 007 RICHMOND AVENUE GREEN STREETS INFILTRATION TRENCH STORMWATER RETENTION CALCULATIONS			
TRENCH AREA	R-1A-R-1	2,052	SQ FT
	R-1B-R-2	1,162	SQ FT
TRENCH STONE HEIGHT FOR STORAGE	R-1A-R-1	3.5	FT
	R-1B-R-2	2.1	FT
INFILTRATION RATE		0.75	IN/HR
STORMWATER MITIGATION			
DESIGN EVENT		1.25	IN
DRAINAGE AREA	R-1A-R-1	27,151	SQ FT
	R-1B-R-2	9,147	SQ FT
LOADING	R-1A-R-1	13.2	:1
	R-1B-R-2	7.9	:1
RUNOFF VOLUME DESIGN EVENT		3,781	CU FT
INFILTRATION BASIN POROSITY		40%	
TIME TO DEWATER DESIGN EVENT	R-1A-R-1	56.0	HRS
	R-1B-R-2	40.0	HRS
MAXIMUM STORMWATER RETENTION:		4,036	CU FT
ANNUAL RUNOFF REDUCTION		640,870	GAL.



REMOVAL OF EXISTING SEWER LATERAL WITH A NEW OUTLET PIPE
 N.T.S



NOTES:
 INFILTRATION MEASURED ON APRIL 27, 2018 BY ATLANTIC TESTING LABORATORIES. RATE PRESENTED IS INFILTRATION MEASURED AT CLOSEST LOCATION (TEST HOLE B-6 LOCATED ON WEST GENESEE ST.) DIVIDED BY SAFETY FACTOR OF 2.

REVISION NO. 1: AS-BUILT PLAN INFORMATION TRANSFERRED FROM PLANS PREPARED BY LANDLINES SURVEYING P.C. 6181 JAMESVILLE TOLL ROAD, JAMESVILLE, NY 13078 315-492-4604. SEE ATTACHED DRAWINGS 190854, 190605, 191002 SHEETS 1 THROUGH 9 DATED SEPTEMBER 12, 2019





HARBOR BROOK GREEN STREETS
 ONONDAGA COUNTY WATER
 ENVIRONMENT PROTECTION
 RICHMOND AVENUE
 SYRACUSE, NEW YORK
 ONONDAGA COUNTY

sym.	Revisions	date
△	RECORD DWG SURVEY LANDLINE	09.12.19

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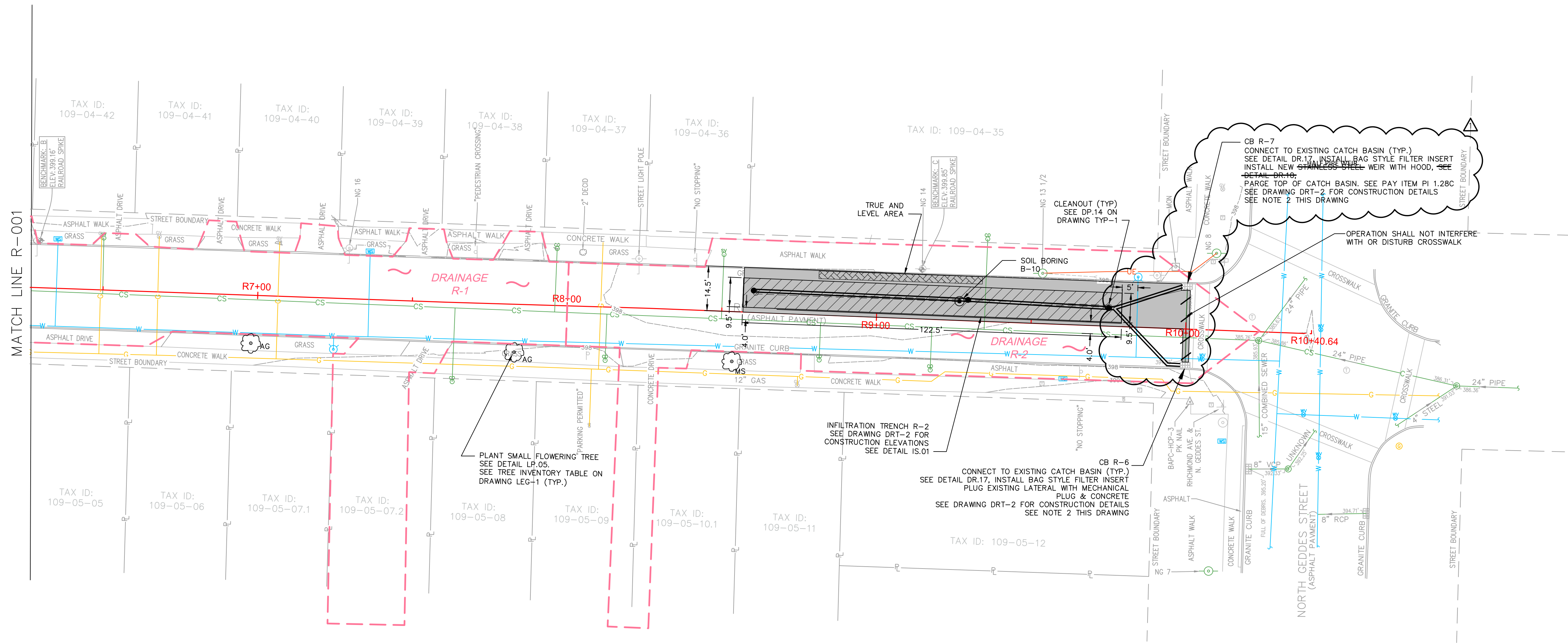
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GENERAL PLANS
 RICHMOND

SCALE: 1"=20'

DRAWING GNP-8

SHEET NO. 13



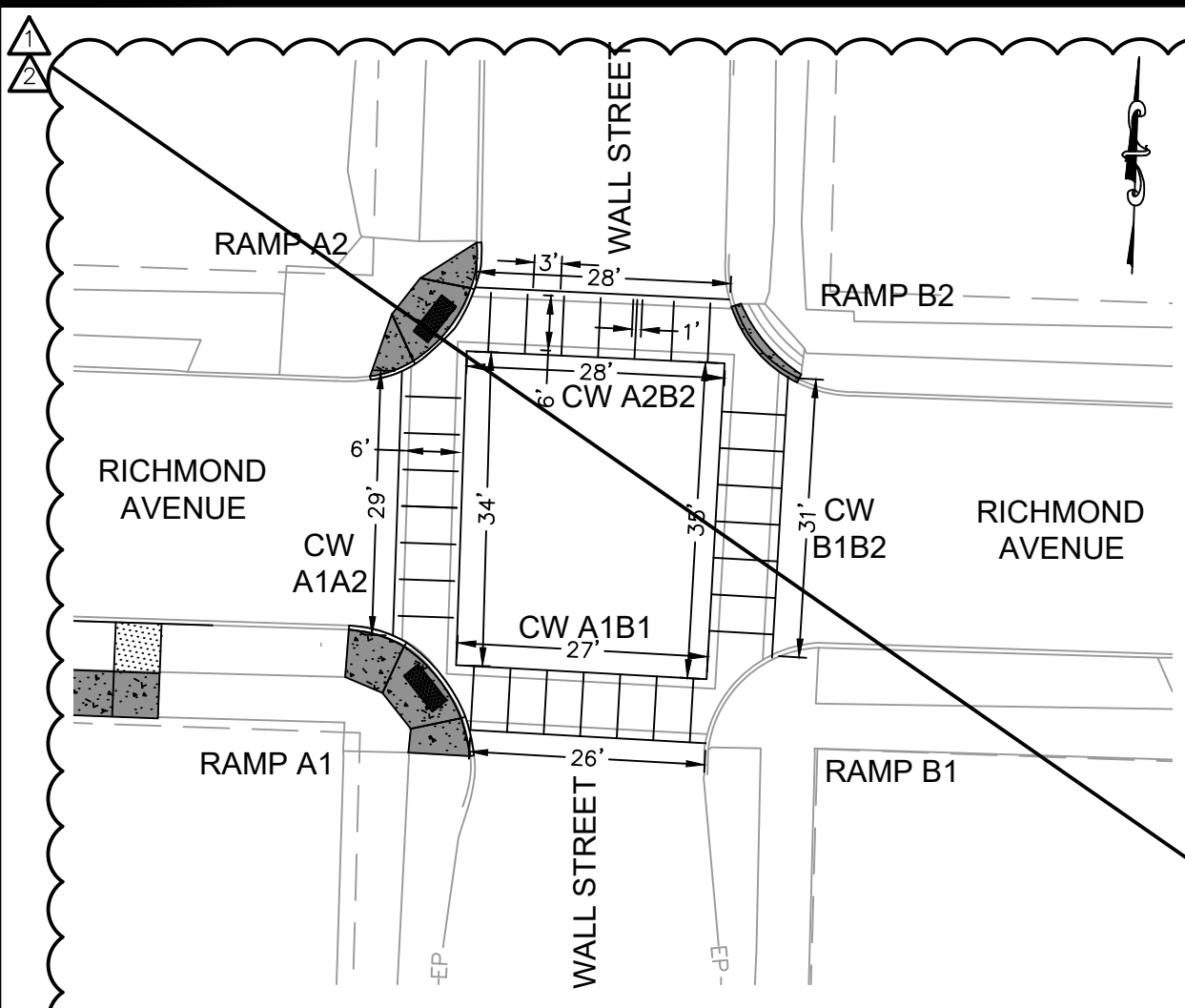
NOTES:

1. ALL DIMENSIONS SHOWN ARE IN FEET UNLESS OTHERWISE INDICATED
2. PRECISE WATER SERVICE LOCATION DEPTHS CAN'T BE DETERMINE CONFLICTS WITH WATER SERVICE UTILITIES MAY BE ENCOUNTERED AT THIS LOCATION IF CONFLICTS ARE IDENTIFIED IN THE FIELD. THE CONTRACTOR SHALL CONSULT WITH AND PROPOSE A RESOLUTION IN THE FIELD. DEVIATIONS DUE TO UNANTICIPATED FIELD CONDITIONS SHALL BE APPROVED BY THE ENGINEER PRIOR TO CONSTRUCTION OF PROPOSED SOLUTION.
3. SEE DRAWING GNP-7 FOR TRENCH AND STORMWATER RETENTION CALCULATIONS



REVISION NO. 1: AS-BUILT PLAN INFORMATION TRANSFERRED FROM PLANS PREPARED BY LANDLINES SURVEYING P.C. 6181 JAMESVILLE TOLL ROAD, JAMESVILLE, NY 13078 315-492-4604. SEE ATTACHED DRAWINGS 190854, 190605, 191002 SHEETS 1 THROUGH 9 DATED SEPTEMBER 12, 2019

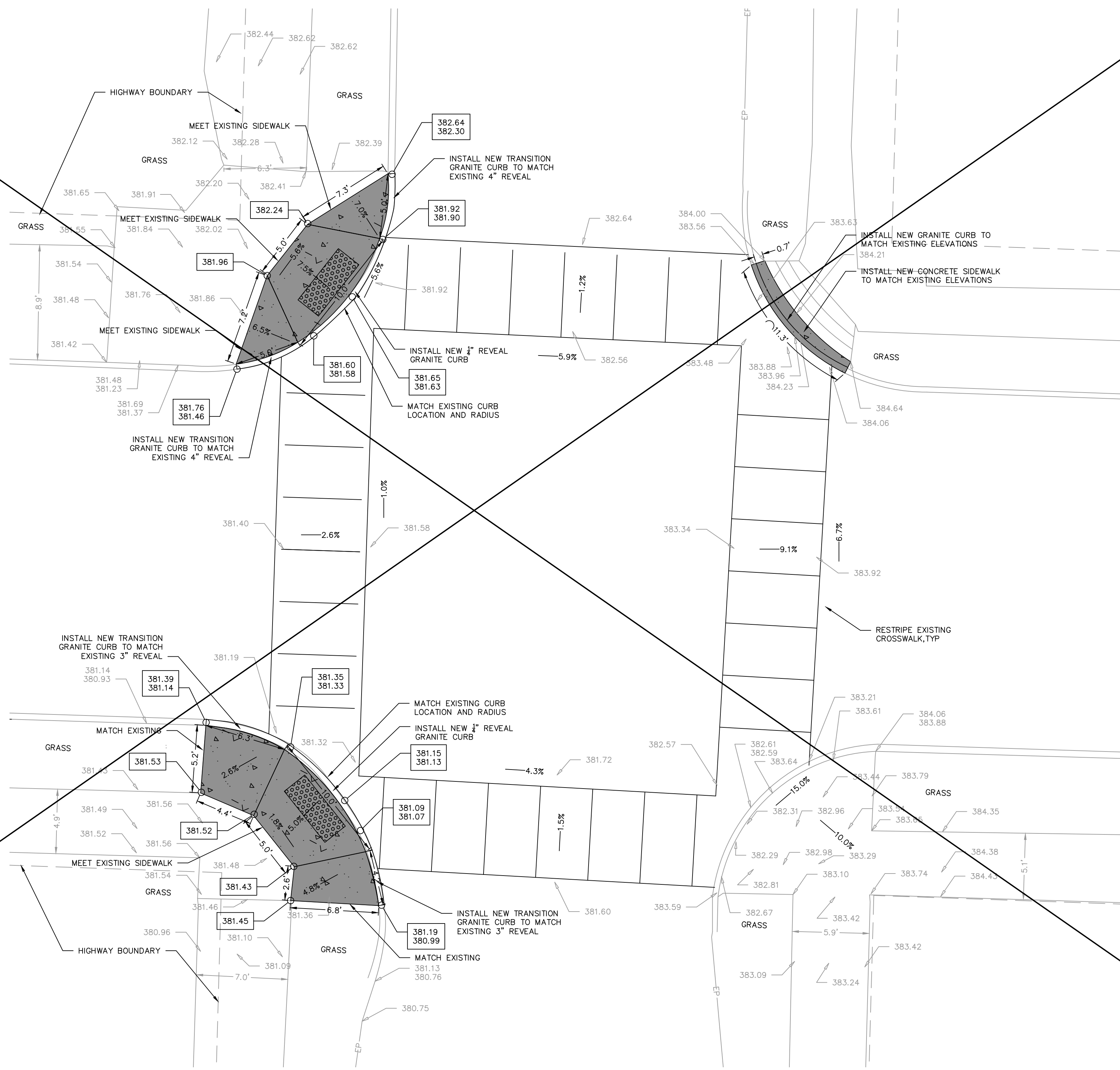




KEY MAP
SCALE 1"=20'

RAMP TABLE						
RAMP NO.	LOCATION	ACTION	TYPE	SLOPE OF FLARED SIDES	RUNNING SLOPE	CROSS SLOPE
A1	SOUTHWEST	NEW RAMP (PS.13)	10' WIDE RAMP	2.6% 4.8%	5.0%	1.8%
A2	NORTHWEST	NEW RAMP (PS.13)	10' WIDE RAMP	6.5% 7.0%	7.5%	5.6%
B1	NORTHEAST	MAINTAIN EXISTING RAMP	10' WIDE RAMP	N/A	10.0%	15.0%
B2	SOUTHEAST	REPAIR BOTTOM OF STEP	N/A	N/A	N/A	N/A

CROSSWALK TABLE			
CW NO.	WIDTH	RUNNING SLOPE	CROSS SLOPE
A1A2	6 FEET	1.0%	2.6%
A2B2	6 FEET	5.9%	1.2%
B1B2	6 FEET	6.7%	9.1%
A1B1	6 FEET	4.3%	1.5%



PLAN VIEW
SCALE 1"=5'

LEGEND

XXX.XX	EXIST SPOT ELEV
XXX.XX	EXIST TC ELEV
XXX.XX	EXIST BC ELEV
XXX.XX	PROP SPOT ELEV
XXX.XX	PROP TC ELEV
XXX.XX	PROP BC ELEV

REVISION NO. 1: AS-BUILT PLAN
INFORMATION TRANSFERRED FROM PLANS
PREPARED BY LANDLINES SURVEYING P.C.
6181 JAMESVILLE TOLL ROAD, JAMESVILLE,
NY 13078 315-492-4604; SEE ATTACHED
DRAWINGS 190854, 190605, 191002 SHEETS
1 THROUGH 9 DATED SEPTEMBER 12, 2019



sym.	Revisions	date
△	RECORD DWG SURVEY LANDLINE	09.12.19
△	RECORD DWG INSPECTION JMT	03.27.20

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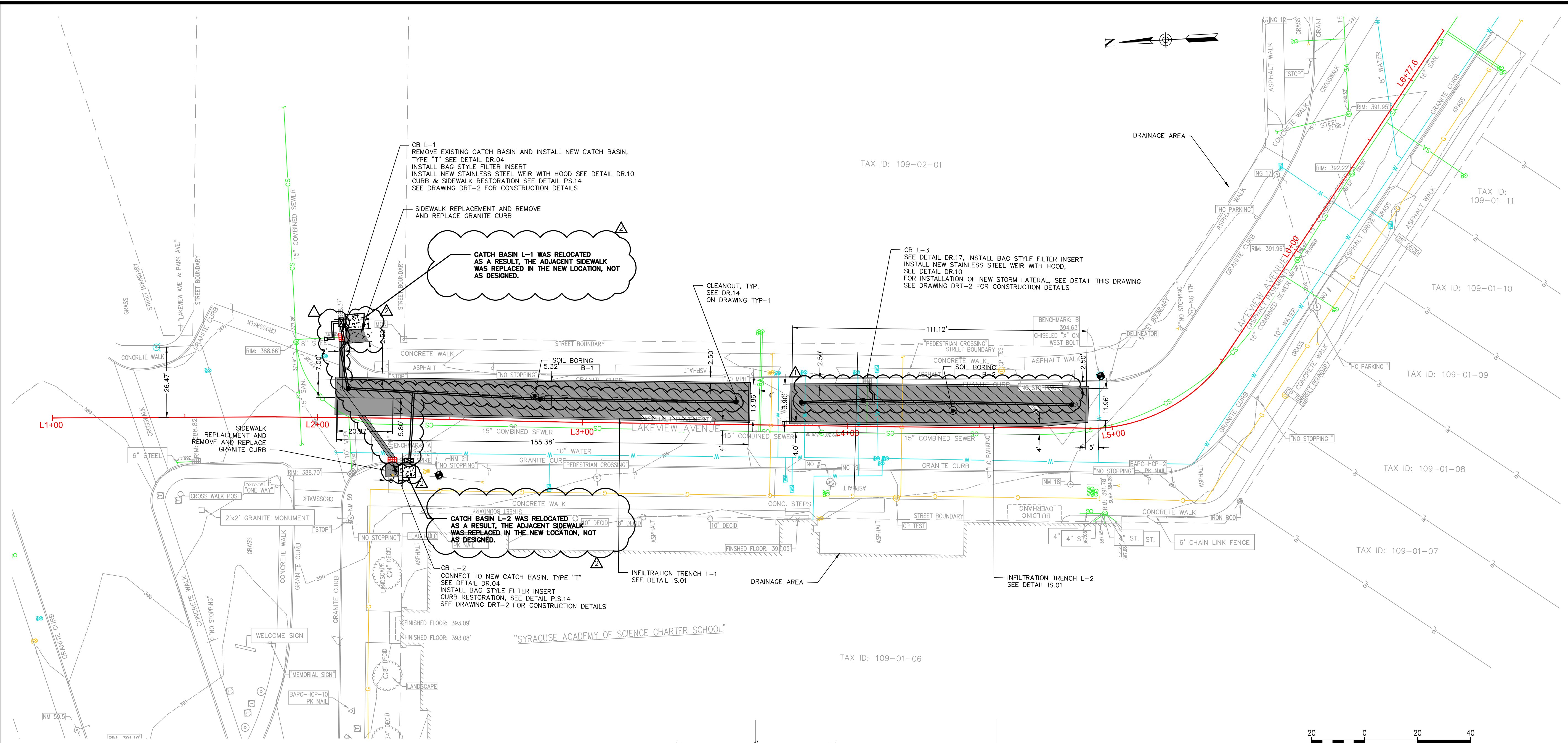
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GENERAL PLANS
RICHMOND
RAMP DETAILS

SCALE: AS NOTED

DRAWING GNP-9

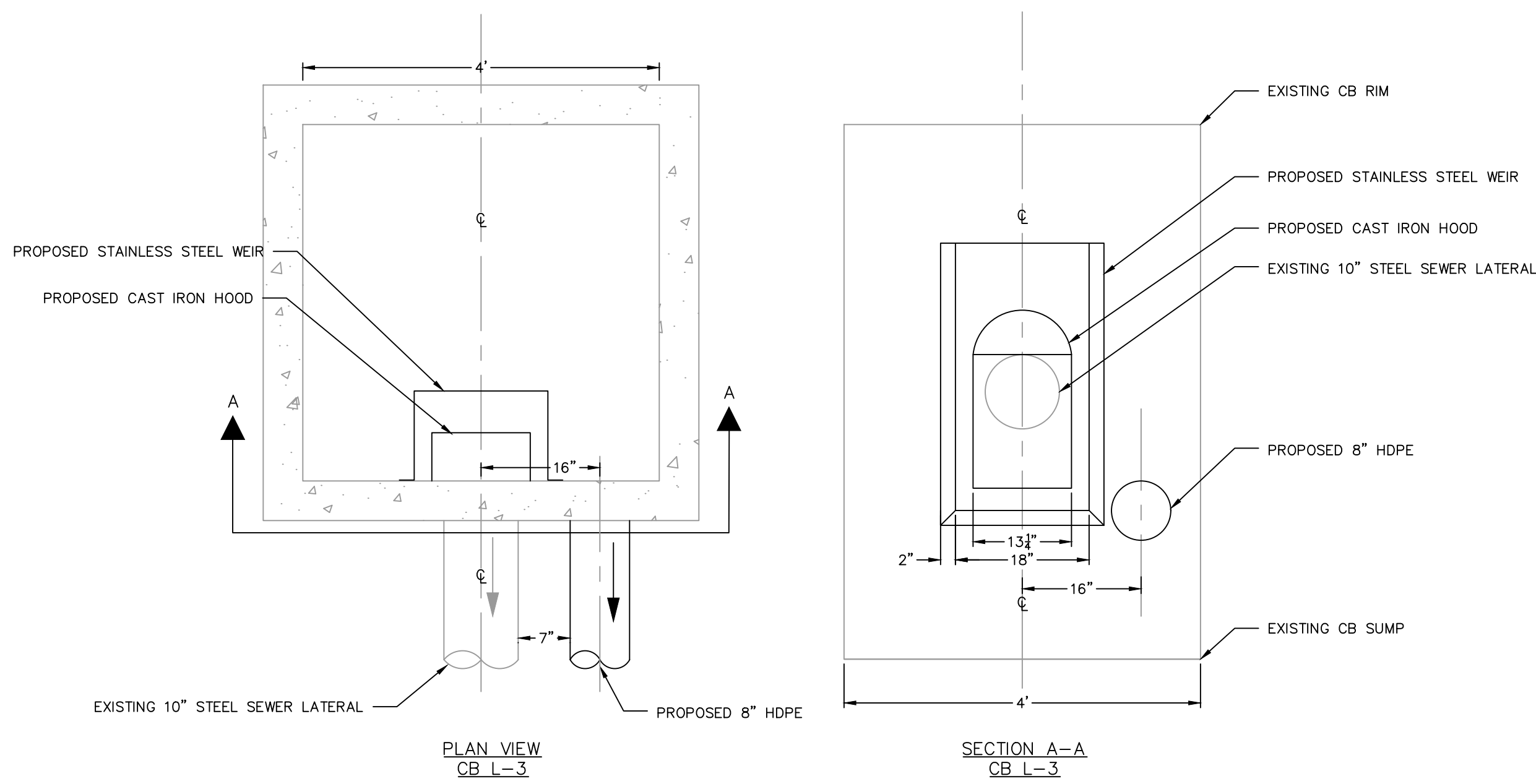
SHEET NO. 14



CSO 006 LAKEVIEW AVENUE GREEN STREETS INFILTRATION TRENCH STORMWATER RETENTION CALCULATIONS

TRENCH AREA	L-1	1,933	SQ FT
	L-2	1,517	SQ FT
TRENCH STONE HEIGHT FOR STORAGE	L-1	3	FT (EL. 387.54)
	L-2	2.8	FT (EL. 388.54)
INFILTRATION RATE	B-1	0.5	IN/HR
	B-2	2.0	IN/HR
STORMWATER MITIGATION			
DESIGN EVENT		1.25	IN
DRAINAGE AREA	L-1	21,697	SQ FT
	L-2	15,922	SQ FT
LOADING	L-1	11.2	:1
	L-2	10.5	:1
RUNOFF VOLUME DESIGN EVENT		3,919	CU FT
INFILTRATION BASIN POROSITY		40%	
TIME TO DEWATER DESIGN EVENT	L-1	30.0	HRS
	L-2	16.8	HRS
MAXIMUM STORMWATER RETENTION:		4,019	CU FT
ANNUAL RUNOFF REDUCTION		664,193	GAL.

NOTES:
INFILTRATION MEASURED ON APRIL 27, 2018 BY ATLANTIC TESTING LABORATORIES. RATE PRESENTED IS OBSERVED RATE DIVIDED BY SAFETY FACTOR OF 2.



NOTE: SEE DRAWING DRT-2 FOR INVERT ELEVATIONS AND PIPE DESCRIPTIONS

MODIFICATION TO EXISTING CB L-3



LEGEND:

RESTORE TO BINDER COURSE HMA ONLY SEE NOTE 1

NOTES:

- CITY OF SYRACUSE TO PLACE TOP COURSE HMA ON LAKEVIEW AVE. AFTER COMPLETION OF WORK SHOWN. PAVEMENT RESTORATION BY THE CONTRACTOR SHALL BE TO BINDER COURSE ONLY AT THIS LOCATION. CONTRACTOR SHALL NOTIFY THE CITY OF SYRACUSE ANTICIPATED WORK COMPLETION DATE.
- ALL DIMENSIONS ARE IN FEET UNLESS OTHERWISE INDICATED.

REVISION NO. 1: AS-BUILT PLAN INFORMATION TRANSFERRED FROM PLANS PREPARED BY LANDLINES SURVEYING P.C. 6181 JAMESVILLE TOLL ROAD, JAMESVILLE, NY 13078 315-492-4604. SEE ATTACHED DRAWINGS 190854, 190605, 191002 SHEETS 1 THROUGH 9 DATED SEPTEMBER 12, 2019



sym.	Revisions	date
△	RECORD DWG SURVEY LANDLINE	09.12.19
△	RECORD DWG INSPECTION JMT	03.27.20

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GENERAL PLANS
LAKEVIEW

SCALE: 1"=20'

DRAWING GNP-10

SHEET NO. 15

RICHMOND									
TYPE	ID	STATUS	DES. ELEV.	REC. ELEV.	DESCRIPTION	PIPE	DESCRIPTION	TRENCH	DESCRIPTION
CB	R-1	EXISTING	377.88		RIM	SOLID HDPE	OUTLET PIPE		
			376.18	376.06	INV OUT 8" TO CSO	8.0	DIAMETER (IN)		
			376.04		CUSTOM WEIR WALL	8.0	LENGTH (FT)		
			374.88	374.89	INV OUT 8" TO INF	0.37	SLOPE (FT/FT)		
			373.98	373.32	SUMP	8.0	HOOD PIPE Ø (IN)		
CB	R-2	EXISTING	378.30		RIM	SOLID HDPE	OUTLET PIPE		
			375.80	374.82	INV OUT 8" TO INF	8.0	DIAMETER (IN)		
			373.80	372.79	SUMP	18.0	LENGTH (FT)		
						0.17	SLOPE (FT/FT)		
MH	R-3	NEW	380.90	381.65	RIM	SOLID HDPE	OUTLET PIPE		
			376.08	375.88	INV IN 8" FROM CBR5	8.0	DIAMETER (IN)		
			375.96	375.79	INV OUT 8" TO INF	78.0	LENGTH (FT)		
			373.96	374.08	SUMP	0.03	SLOPE (FT/FT)		
CB	R-4	EXISTING	384.91		RIM	SOLID HDPE	OUTLET PIPE		
			381.41	381.43	INV OUT 8" TO INF	8.0	DIAMETER (IN)		
			378.91	378.67	SUMP	23.0	LENGTH (FT)		
						0.02	SLOPE (FT/FT)		
CB	R-5	EXISTING	384.75		RIM	SOLID HDPE	OUTLET PIPE		
			380.95	380.93	INV IN 8" FRM CBR4	8.0	DIAMETER (IN)		
			380.00	380.80	INV OUT 8" TO MHR3	49.0	LENGTH (FT)		
			UNK	379.51	SUMP	0.08	SLOPE (FT/FT)		
CB	R-6	EXISTING	397.55	397.65	RIM	SOLID HDPE	OUTLET PIPE		
			395.30	395.49	INV OUT 8" TO INF	8.0	DIAMETER (IN)		
			UNK	392.10	SUMP	24.0	LENGTH (FT)		
CB	R-7	EXISTING							
			397.46	397.55	RIM	SOLID HDPE	OUTLET PIPE		
			396.04	395.80	WEIR	8.0	DIAMETER (IN)		
			394.82		INV IN FRM CBR6	26.0	LENGTH (FT)		
			394.66	394.78	INV OUT 8" TO INF	0.02	SLOPE (FT/FT)		
			393.66		INV OUT EX HOOD				
TRENCH	R-1A	NEW	378.00		TOP OF PAVEMENT	PERF HDPE	INFILTRATION PIPE	202.0	LENGTH (FT)
			376.54		TOP OF STONE	8.0	DIAMETER (IN)	8.2	NARROW WIDTH (FT)
			373.04		INFILTRATION PIPE	198.0	LENGTH (FT)	10.7	WIDEST WIDTH (FT)
			372.54		BOTTOM OF TRENCH			7.0	DEPTH AT DEEP END (FT)
			379.30		TOP OF PAVEMENT	PERF HDPE	INFILTRATION PIPE	18.0	LENGTH (FT)
TRENCH	R-1B	NEW	378.04		TOP OF STONE	8.0	DIAMETER (IN)	8.1	WIDTH (FT)
			373.33		INFILTRATION PIPE	14.0	LENGTH (FT)	6.2	DEPTH AT DEEP END (FT)
			372.83		BOTTOM OF TRENCH				
TRENCH	R-2	NEW	376.68		TOP OF BERM				
			397.70		TOP OF PAVEMENT	PERF HDPE	INFILTRATION PIPE	123.0	LENGTH (FT)
			396.24		TOP OF STONE	8.0	DIAMETER (IN)	9.5	WIDTH (FT)
			394.14		INFILTRATION PIPE	103.0	LENGTH (FT)		
			393.64		BOTTOM OF TRENCH				

SOUTH GEDDES								
TYPE	ID	STATUS	ELEV.	DESCRIPTION	ELEV	DESCRIPTION	PIPE	
CB	NG-1	EXISTING	395.36	RIM				
			393.36	INV OUT (EXISTING)				
			392.10	INV IN (PROPOSED)	8.0	DIAMETER (IN)		
			UNK	SUMP				
CB	NG-2	EXISTING	UNK	RIM				
			UNK	INV OUT (EXISTING)				
			392.10	INV IN (PROPOSED)	8.0	DIAMETER (IN)		
			UNK	SUMP				
BIORETENTION BASIN	NG-1	NEW	395.36	FINISH GRADE	395.69	24" PVC RISER RIM		
			394.86	BOTTOM OF BIORETENTION SOIL	395.69	WEIR		
			393.86	BOTTOM OF INFILTRATION STONE	394.03	INV IN	118 LF (6" PERF. PIPE)	
			391.03	BOTTOM OF TRENCH	392.20	INV OUT	5 LF (8" SOLID PIPE)	
BIORETENTION BASIN	NG-2	NEW			392.03	SUMP		
			395.36	FINISH GRADE	395.69	24" PVC RISER RIM		
			394.86	BOTTOM OF BIORETENTION SOIL	395.69	WEIR		
			393.86	BOTTOM OF INFILTRATION STONE	394.03	INV IN	43 LF (6" PERF. PIPE)	
			391.03	BOTTOM OF TRENCH	394.03	INV IN	41 LF (6" PERF. PIPE)	
					392.20	INV OUT	5 LF (8" SOLID PIPE)	
					392.03	SUMP		

LAKEVIEW									
TYPE	ID	STATUS	DES. ELEV.	REC. ELEV.	DESCRIPTION	PIPE	DESCRIPTION	TRENCH	DESCRIPTION
CB	L-1	NEW	388.37	388.22	RIM	SOLID HDPE	OUTLET PIPE		
			387.04	387.02	WEIR	8.0	DIAMETER (IN)		
			385.37	385.34	DRILL 2" HOLE IN WEIR	18.0	LENGTH (FT)		
			385.92	385.88	INV OUT 8" TO CSO	0.03	SLOPE (FT/FT)		
			385.37	385.66	INV OUT 8" TO INF				
			UNK	383.29	SUMP				
CB	L-2	NEW	388.70	388.82	RIM	SOLID HDPE	OUTLET PIPE		
			385.70	385.84	INV OUT 8" TO INF	8.0	DIAMETER (IN)		
			UNK	383.79	SUMP	32.0	LENGTH (FT)		
					0.04	SLOPE (FT/FT)			
CB	L-3	EXISTING	389.89	389.90	RIM	SOLID HDPE	OUTLET PIPE		
			388.04	388.05	WEIR	8.0	DIAMETER (IN)		
			386.88	386.90	INV OUT 10" TO CSO	7.0	LENGTH (FT)		
			385.68	385.63	INV OUT 8" TO INF	0.02	SLOPE (FT/FT)		
			UNK	384.50	SUMP	10.0	HOOD PIPE Ø (IN)		
TRENCH	L-1	NEW	388.60		TOP OF PAVEMENT	PERF HDPE	INFILTRATION PIPE	156.0	LENGTH (FT)
			387.29		TOP OF STONE	8.0	DIAMETER (IN)	7.0	NARROW WIDTH (FT)
			384.79		INFILTRATION PIPE	150.0	LENGTH (FT)	14.0	WIDER WIDTH (FT)
			384.29		BOTTOM OF TRENCH				
TRENCH	L-2	NEW	389.80		TOP OF PAVEMENT	PERF HDPE	INFILTRATION PIPE	112.0	LENGTH (FT)
			388.34		TOP OF STONE	8.0	DIAMETER (IN)	12.0	NARROW WIDTH (FT)
			385.54		INFILTRATION PIPE	104.0	LENGTH (FT)	13.9	WIDER WIDTH (FT)
			385.04		BOTTOM OF TRENCH				

LANDLINES SURVEYING & ENGINEERING
 307 S. TOWNSEND ST., SYRACUSE, NY 13202
 P: (315) 471-2101 F: (315) 471-2111 | www.jml.com
 Project No. 17-S0182N-001



HARBOR BROOK GREEN STREETS
 ONONDAGA COUNTY WATER
 ENVIRONMENT PROTECTION
 SYRACUSE, NEW YORK
 ONONDAGA COUNTY

sym.	Revisions	date
△	RECORD DWG SURVEY LANDLINE	09.12.19
△	RECORD DWG INSPECTION JMT	02.12.20

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DRAINAGE TABLES

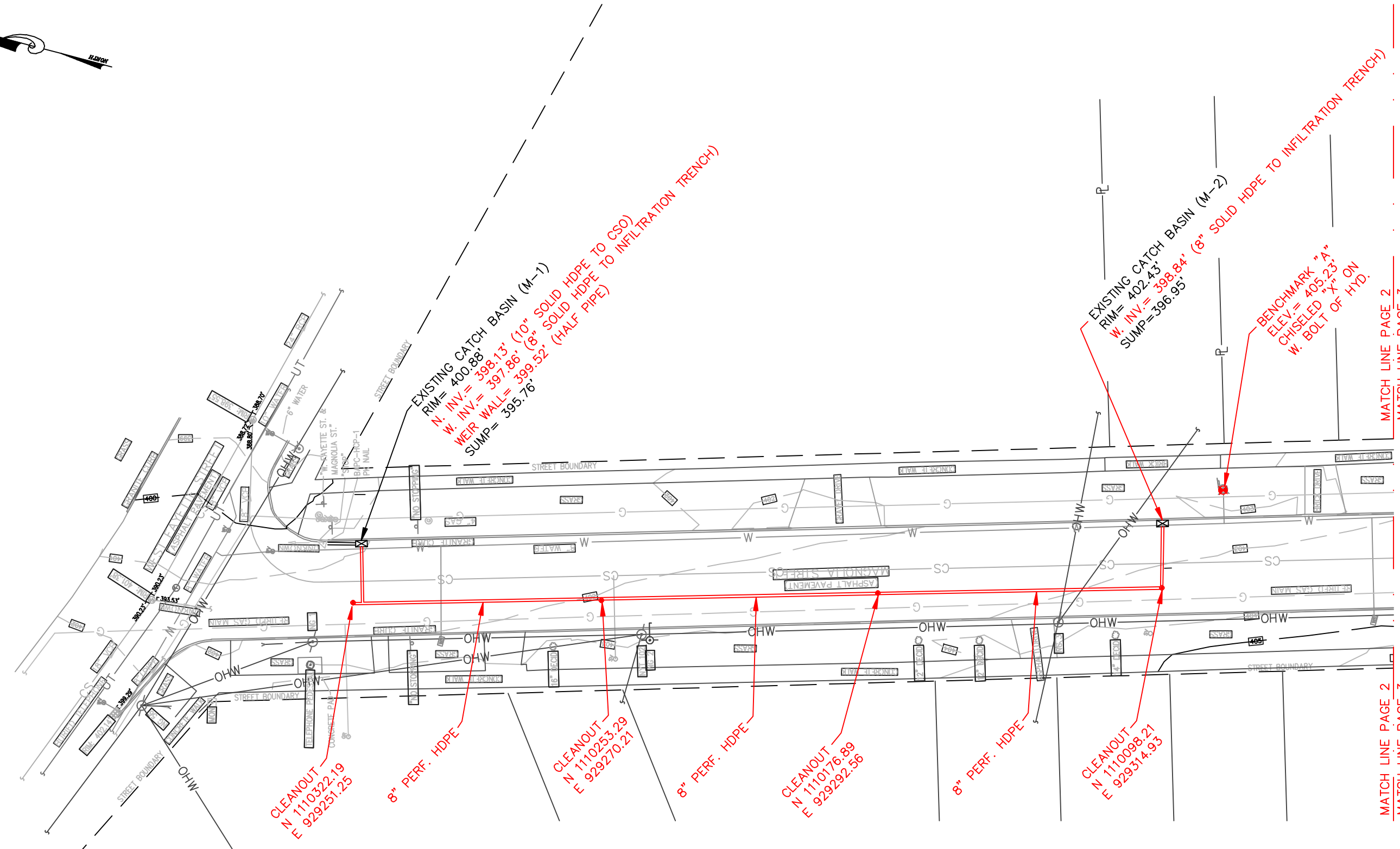
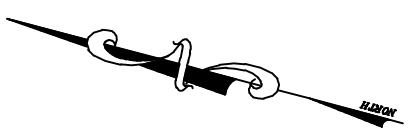
SCALE: NO SCALE

DRAWING DRT-2

SHEET NO. 17

REVISION NO. 1: AS-BUILT PLAN INFORMATION TRANSFERRED FROM PLANS PREPARED BY LANDLINES SURVEYING P.C. 6181 JAMESVILLE TOLL ROAD, JAMESVILLE, NY 13078 315-492-4604. SEE ATTACHED DRAWINGS 190854, 190605, 191002 SHEETS 1 THROUGH 9 DATED SEPTEMBER 12, 2019

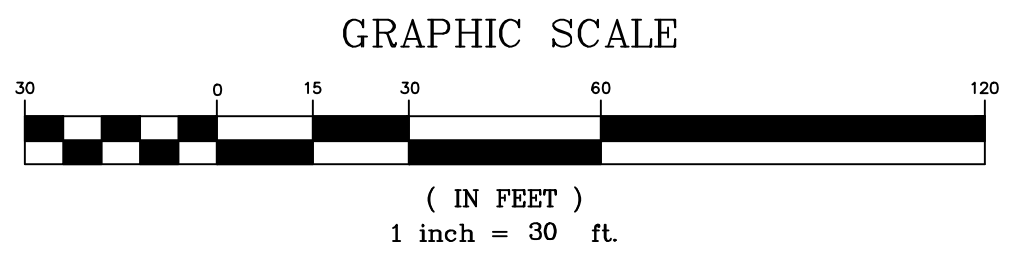




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MATCH LINE PAGE 3

MATCH LINE PAGE 2
MATCH LINE PAGE 3

NOTE: BASE SURVEY BY BRYANT ASSOCIATES, P.C. DATE OCTOBER-NOVEMBER 2017



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

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

2019-002G MAGNOLIA STREET
SEWER RECONFIGURATION
ONONDAGA COUNTY DEPARTMENT
OF WATER ENVIRONMENT PROTECTION
CITY OF SYRACUSE
COUNTY OF ONONDAGA
STATE OF NEW YORK
PAGE 1 OF 4

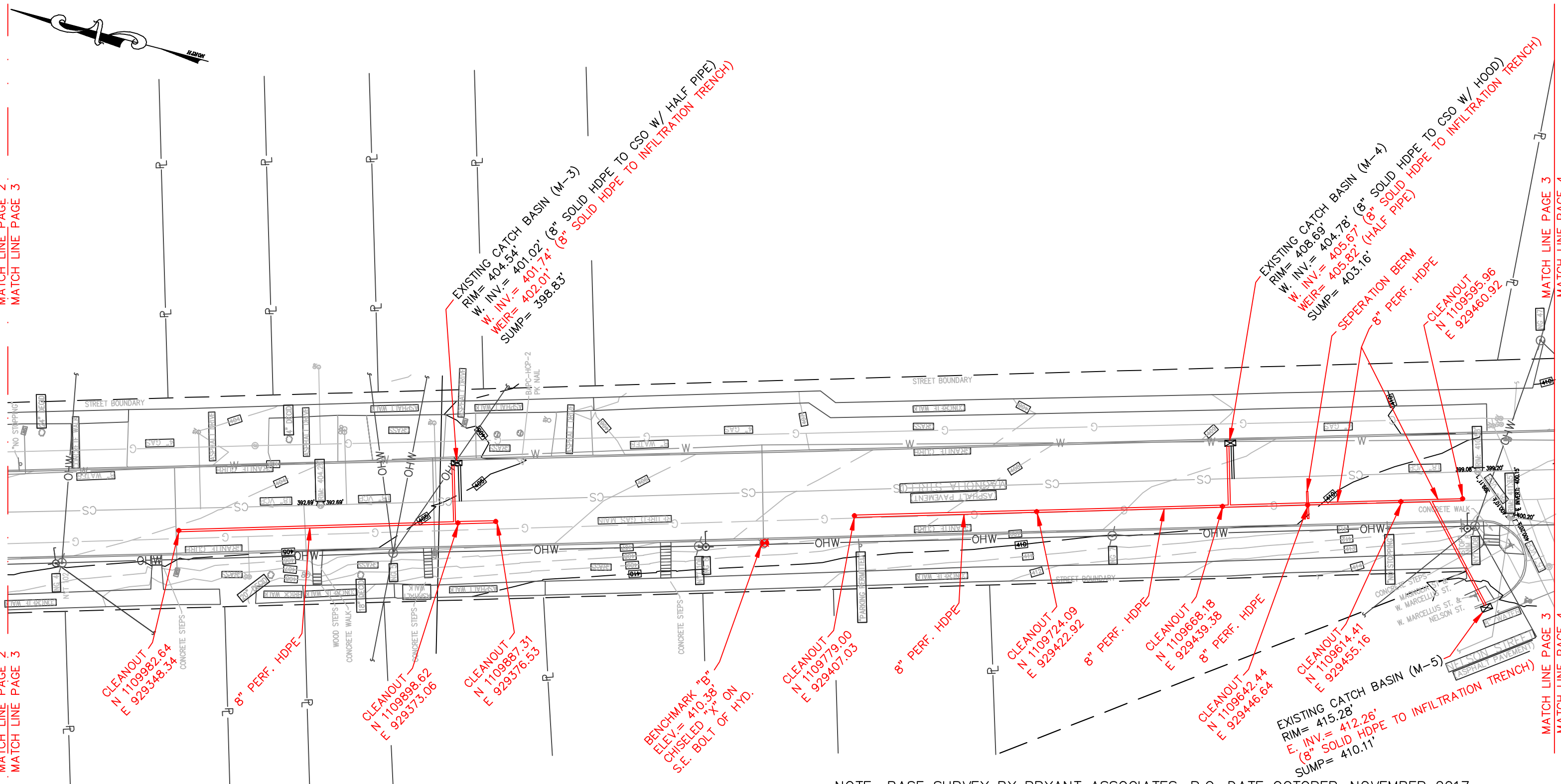
DRAWN BY: WJH	DATE: 09/12/2019
SCALE: 1"=30'	DWG.No.: 190605

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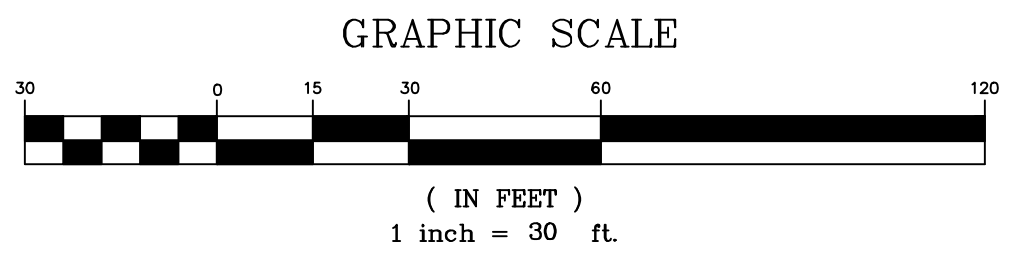
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NOTE: BASE SURVEY BY BRYANT ASSOCIATES, P.C. DATE OCTOBER-NOVEMBER 2017



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JAMESVILLE, NEW YORK 13078
315-492-4604

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CITY OF SYRACUSE
COUNTY OF ONONDAGA
STATE OF NEW YORK
PAGE 2 OF 4

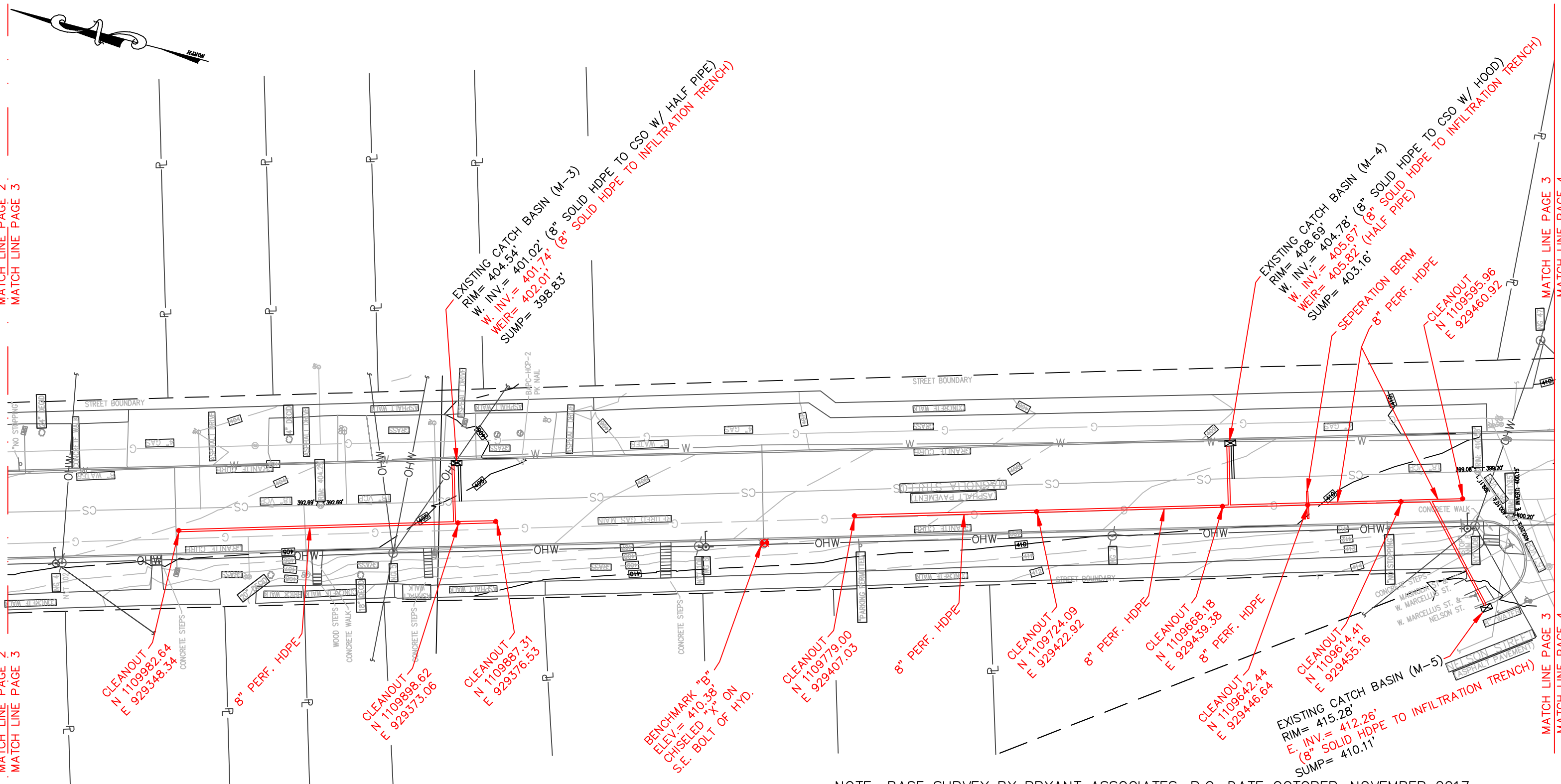
DRAWN BY: WJH	DATE: 09/03/2019
SCALE: 1"=30'	DWG.No.: 190605

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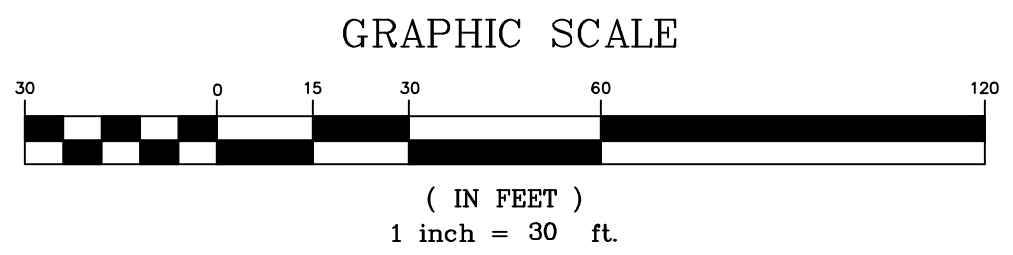
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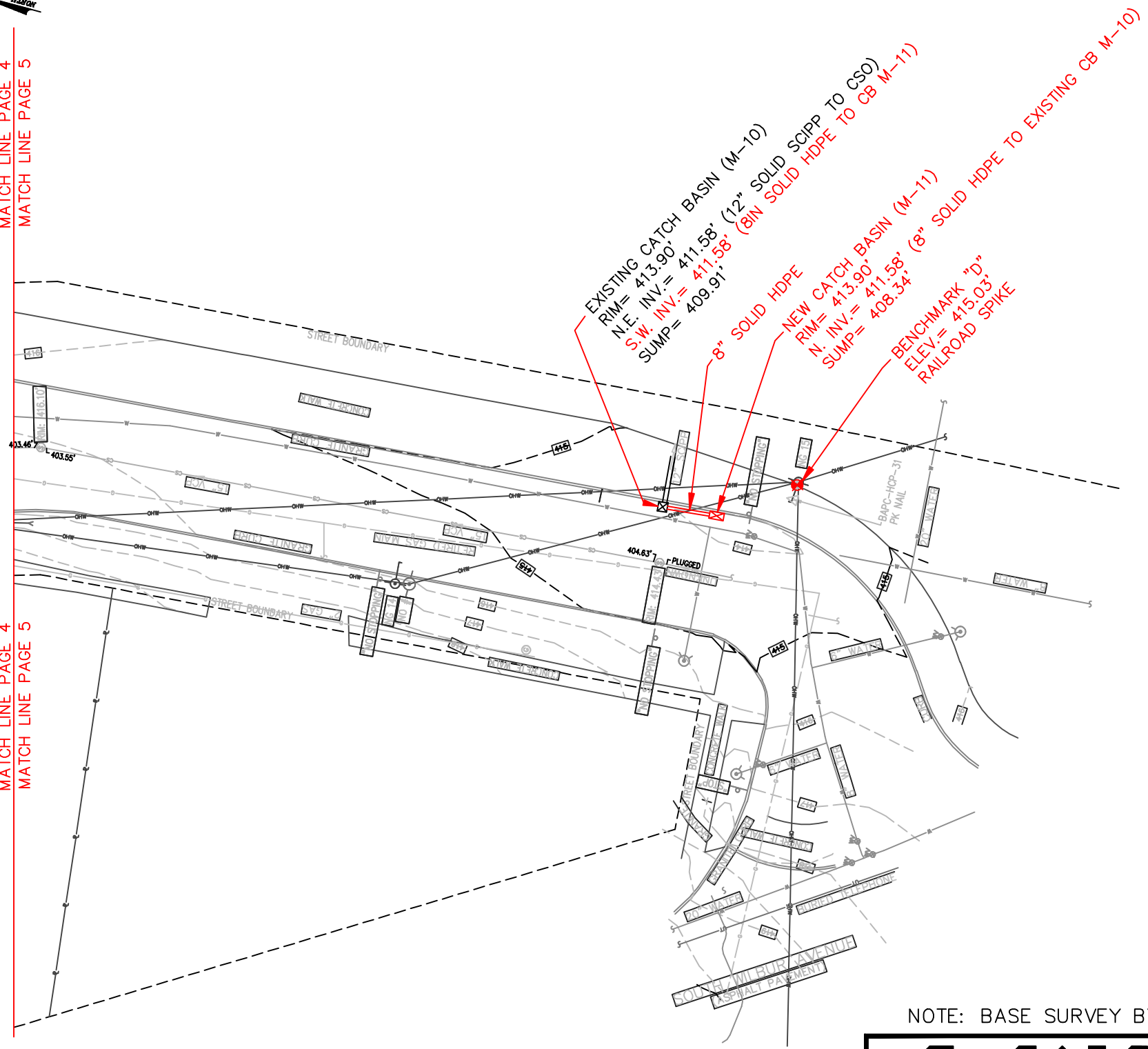
2019-002G MAGNOLIA STREET
SEWER RECONFIGURATION
ONONDAGA COUNTY DEPARTMENT
OF WATER ENVIRONMENT PROTECTION
CITY OF SYRACUSE
COUNTY OF ONONDAGA
STATE OF NEW YORK
PAGE 2 OF 4

DRAWN BY: WJH	DATE: 09/03/2019
SCALE: 1"=30'	DWG.No.: 190605

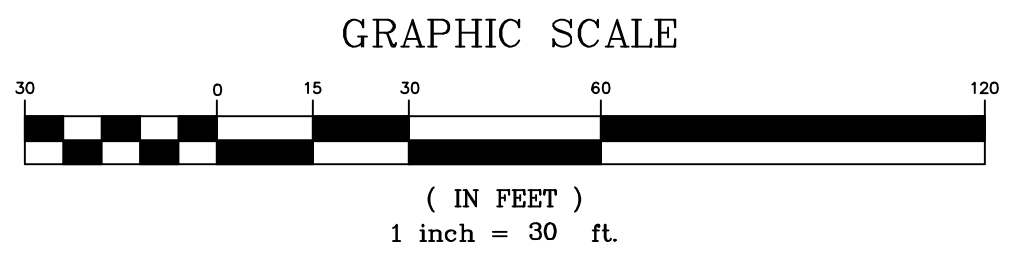


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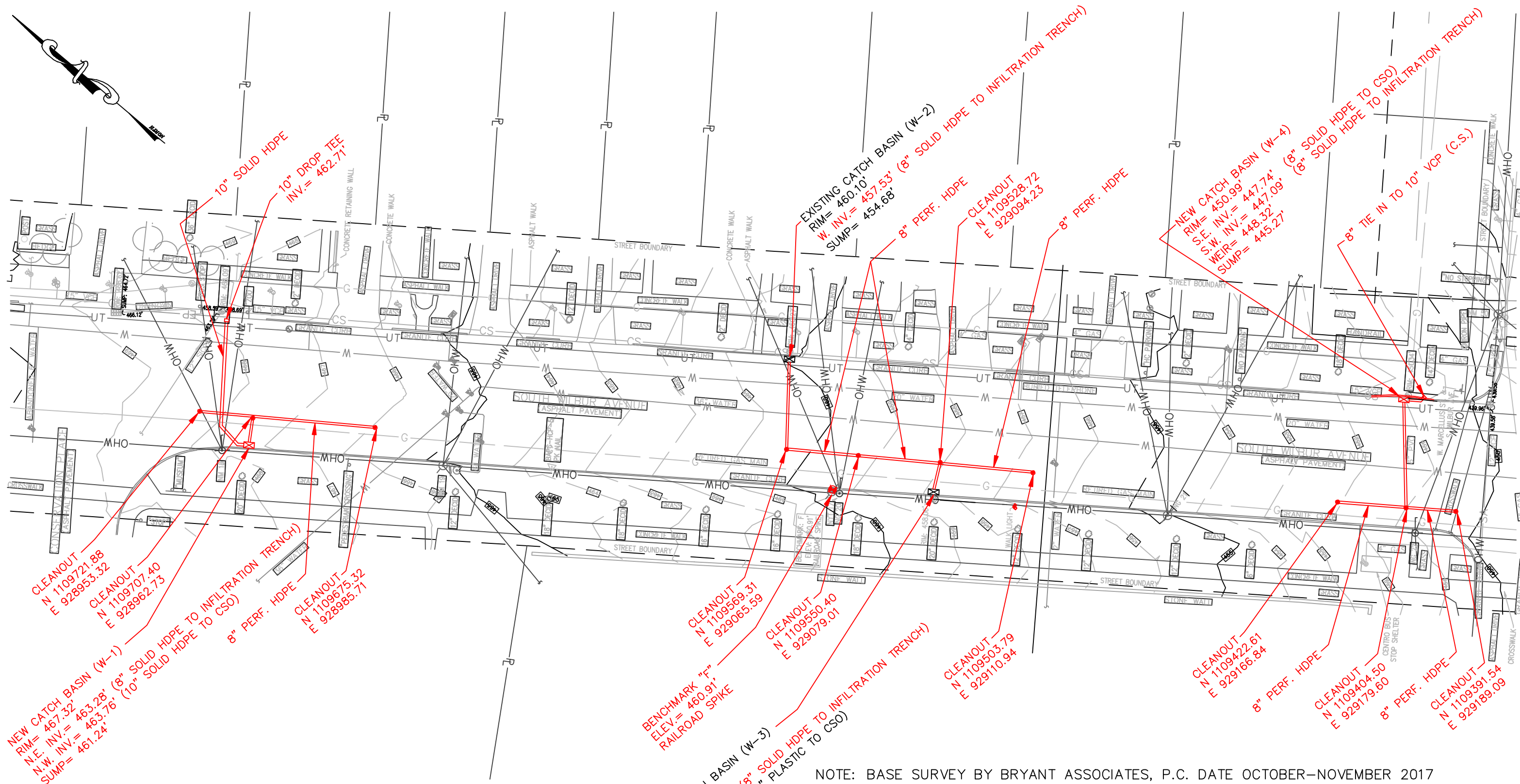
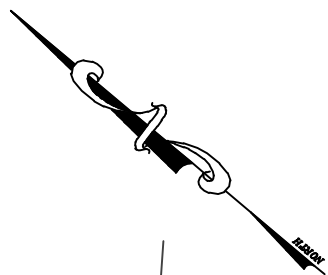


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LICENSE No. 50450

2019-002G MAGNOLIA STREET
SEWER RECONFIGURATION
ONONDAGA COUNTY DEPARTMENT
OF WATER ENVIRONMENT PROTECTION
CITY OF SYRACUSE
COUNTY OF ONONDAGA
STATE OF NEW YORK
PAGE 4 OF 4
REVISED: 12/03/2019

DRAWN BY: WJH	DATE: 09/12/2019
SCALE: 1"=30'	DWG.No.: 190605



NEW CATCH BASIN (W-1)
RIM = 467.32'
N.E. INV. = 463.28'
N.W. INV. = 463.76'
SUMP = 461.24'

CLEANOUT
N 1109721.88
E 928953.32

CLEANOUT
N 1109707.40
E 928962.73

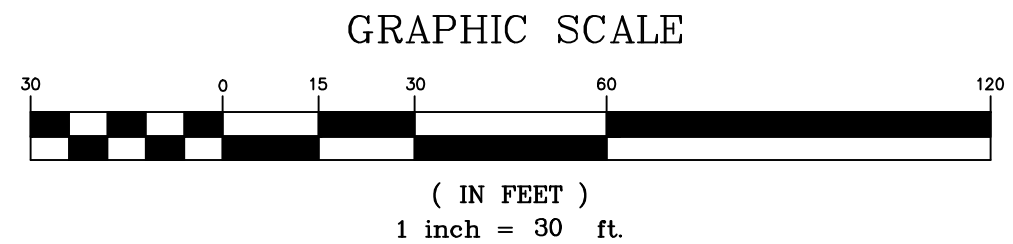
CLEANOUT
N 1109675.32
E 928985.71

EXISTING CATCH BASIN (W-3)
RIM = 457.90'
N.E. INV. = 454.69'
S.E. INV. = 454.10'
WEIR = 456.09'
ORIFICE = 454.32'
SUMP = 451.88'

EXISTING CATCH BASIN (W-2)
RIM = 460.10'
W. INV. = 457.53'
SUMP = 454.68'

NEW CATCH BASIN (W-4)
RIM = 450.99'
S.E. INV. = 447.74'
S.W. INV. = 448.32'
WEIR = 448.32'
SUMP = 445.27'

NOTE: BASE SURVEY BY BRYANT ASSOCIATES, P.C. DATE OCTOBER-NOVEMBER 2017



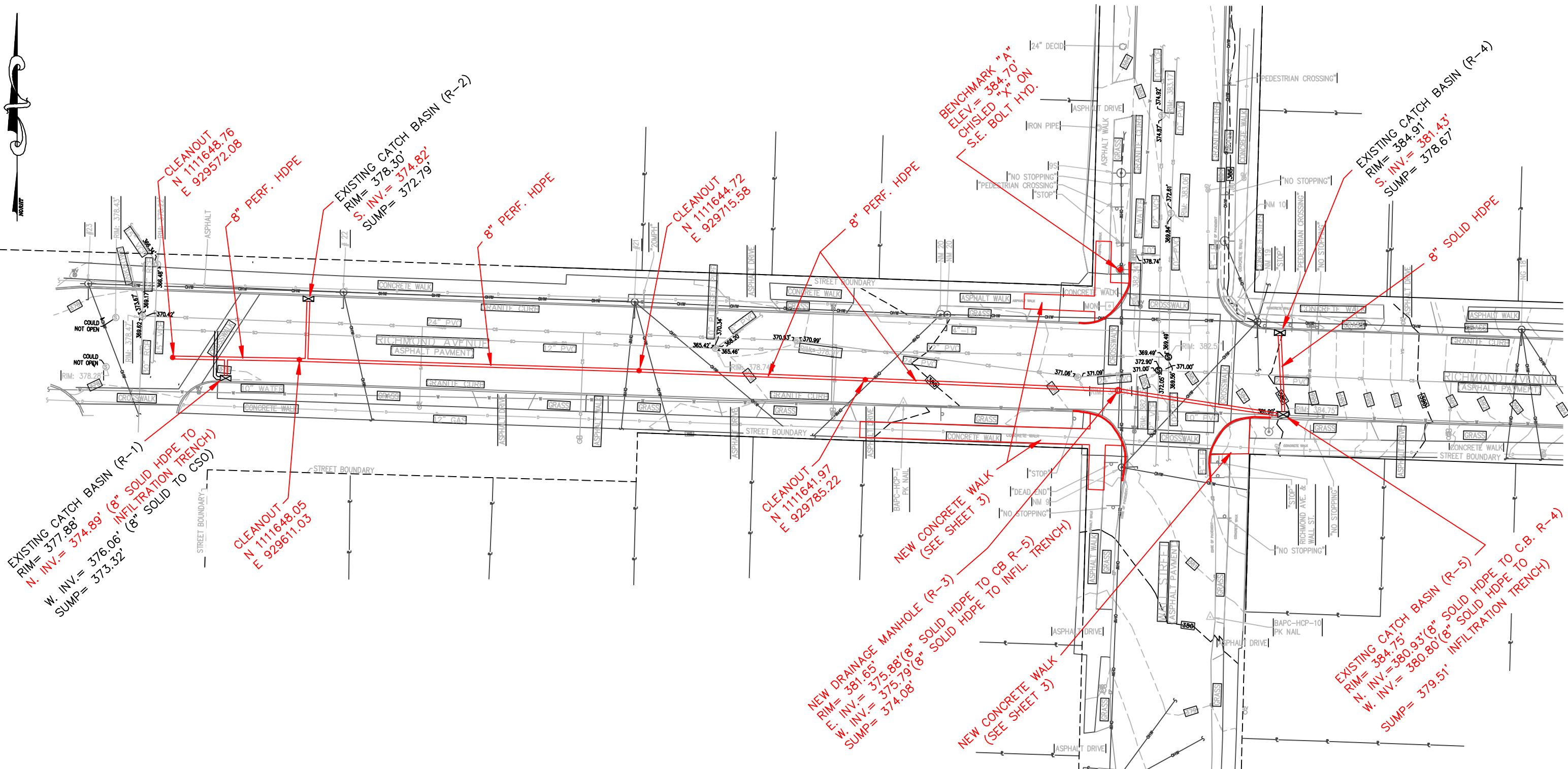
LAND LINES
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315-492-4604

STATE OF NEW YORK
COLIN M. KRAFT
LICENSED LAND SURVEYOR
050450

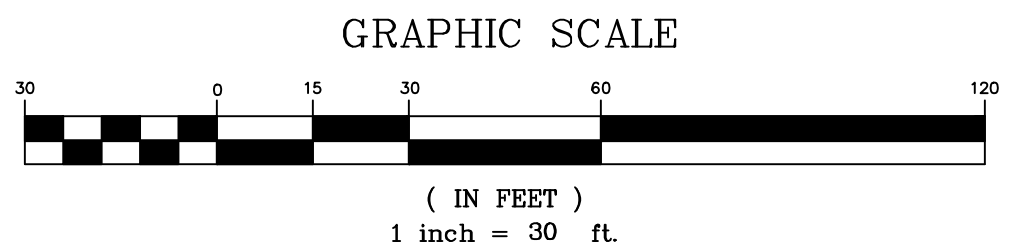
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COLIN M. KRAFT
LICENSE No. 50450

2019-003G WILBUR AVENUE
SEWER RECONFIGURATION
ONONDAGA COUNTY DEPARTMENT
OF WATER ENVIRONMENT PROTECTION
CITY OF SYRACUSE
COUNTY OF ONONDAGA
STATE OF NEW YORK

DRAWN BY: WJH DATE: 09/12/2019
SCALE: 1"=30' DWG.No.: 190605



NOTE: BASE SURVEY BY BRYANT ASSOCIATES, P.C. DATE OCTOBER-NOVEMBER 2017

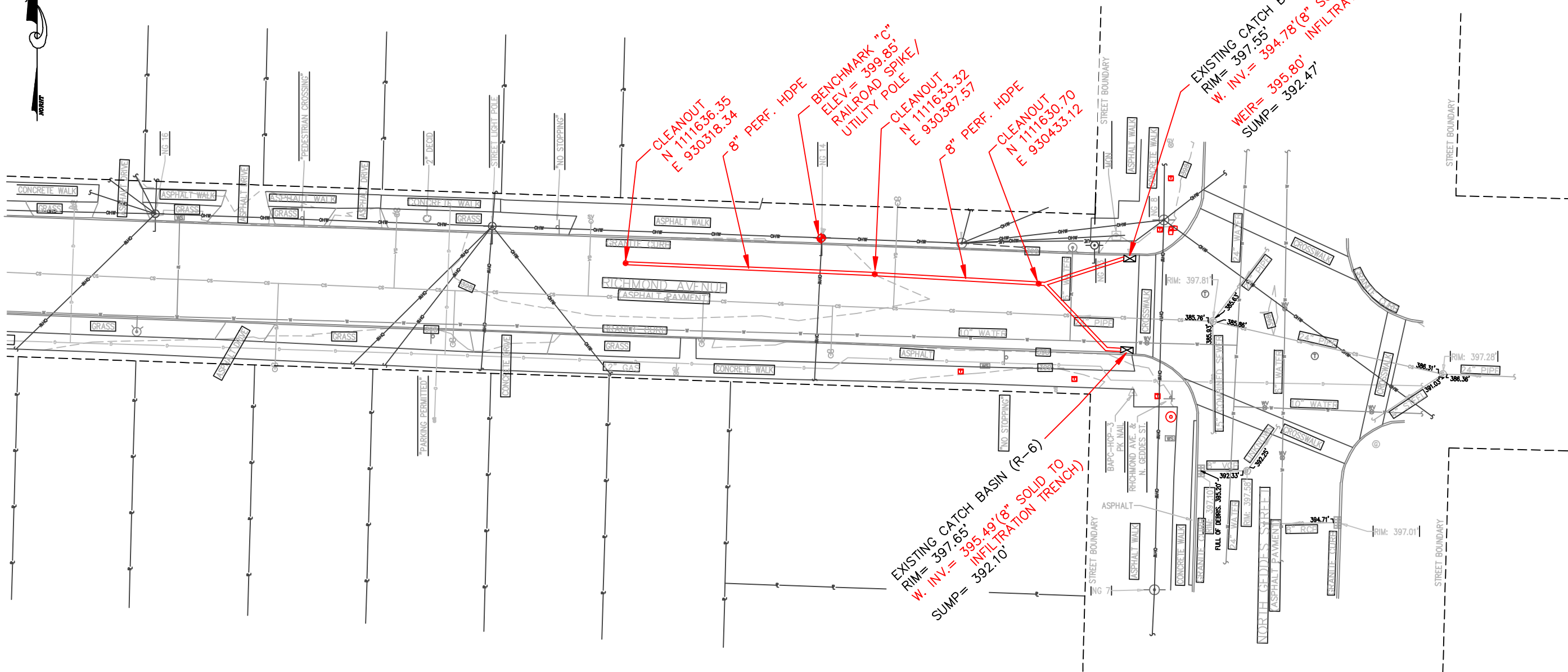


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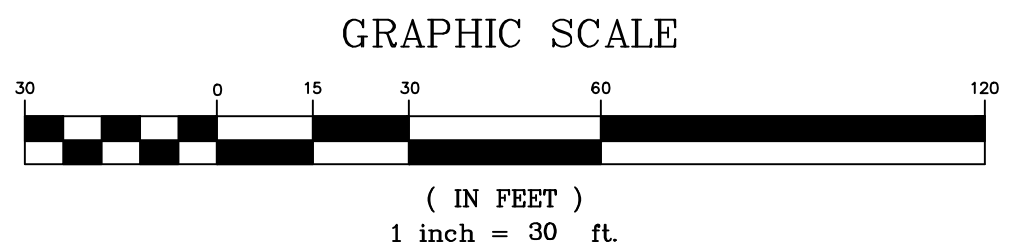
COLIN M. KRAFT
LICENSE No. 50450

CSO 007 RICHMOND AVENUE
SEWER RECONFIGURATION
ONONDAGA COUNTY DEPARTMENT
OF WATER ENVIRONMENT PROTECTION
CITY OF SYRACUSE
COUNTY OF ONONDAGA
STATE OF NEW YORK
PAGE 1 OF 3

DRAWN BY: WJH DATE: 11/18/2019
SCALE: 1"=30' DWG.No.: 191002



NOTE: BASE SURVEY BY BRYANT ASSOCIATES, P.C. DATE OCTOBER-NOVEMBER 2017



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CSO 007 RICHMOND AVENUE
SEWER RECONFIGURATION
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COUNTY OF ONONDAGA
STATE OF NEW YORK
PAGE 2 OF 3

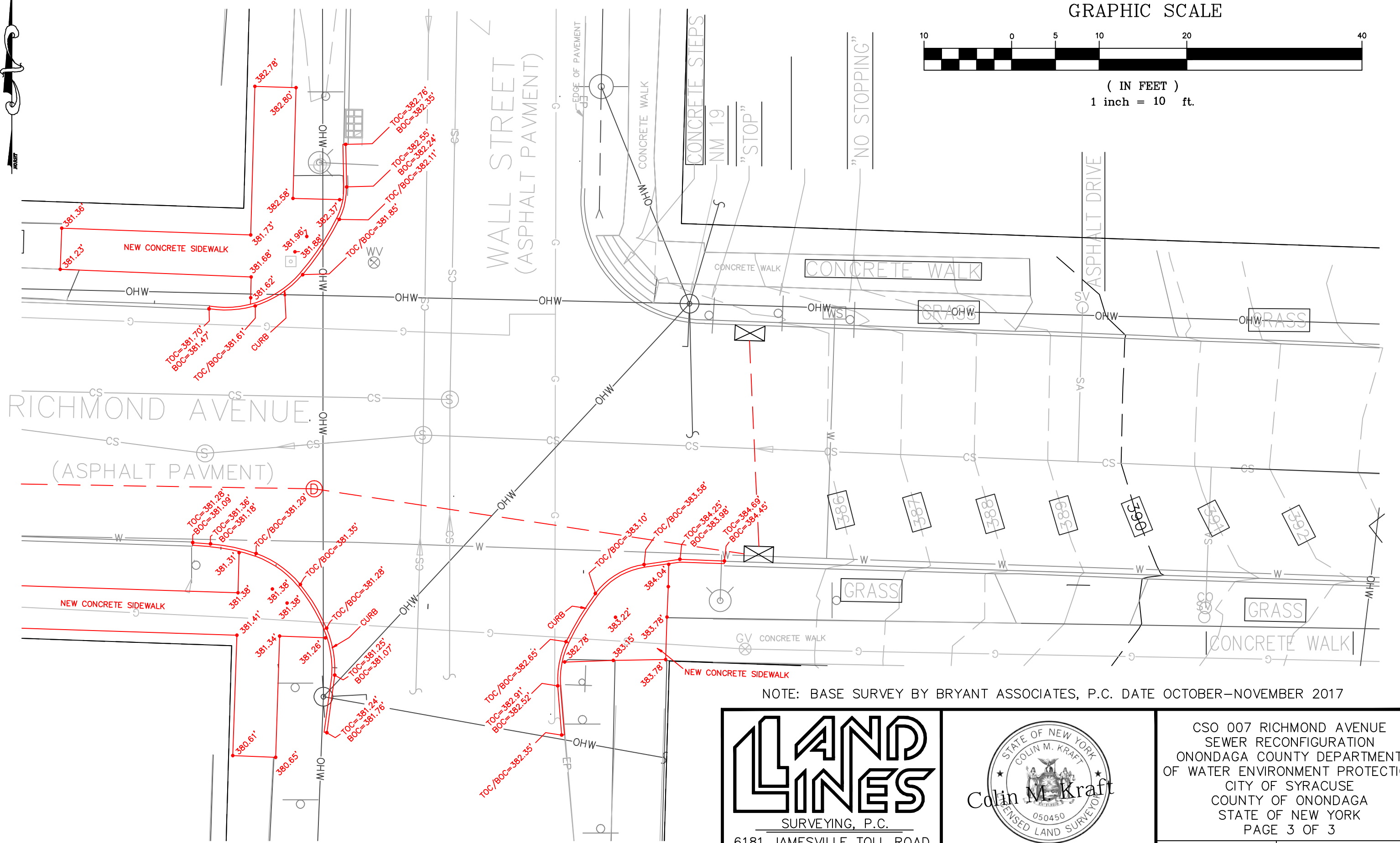
DRAWN BY: WJH	DATE: 11/18/2019
SCALE: 1"=30'	DWG.No.: 191002



GRAPHIC SCALE



(IN FEET)
1 inch = 10 ft.



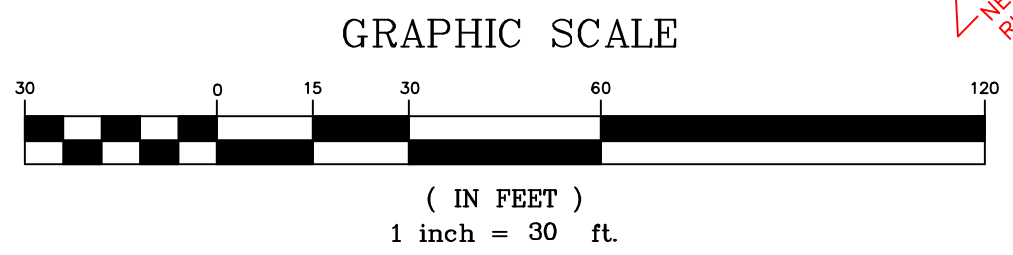
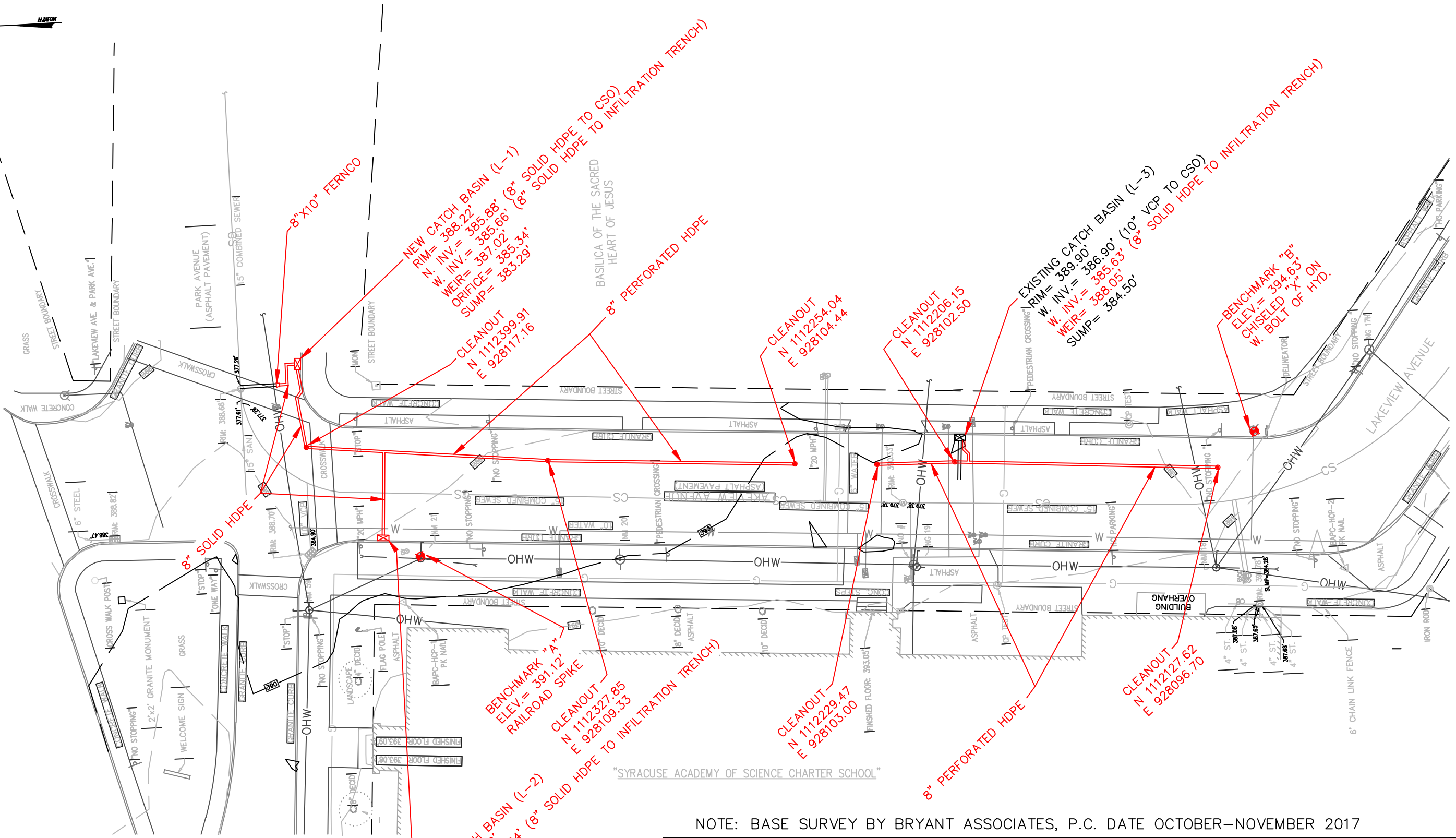
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PAGE 3 OF 3

DRAWN BY: WJH	DATE: 11/18/2019
SCALE: 1"=10'	DWG.No.: 191002



NOTE: BASE SURVEY BY BRYANT ASSOCIATES, P.C. DATE OCTOBER-NOVEMBER 2017

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COLIN M. KRAFT
LICENSE No. 50450

2019-006G LAKEVIEW AVENUE
SEWER RECONFIGURATION
ONONDAGA COUNTY DEPARTMENT
OF WATER ENVIRONMENT PROTECTION
CITY OF SYRACUSE
COUNTY OF ONONDAGA
STATE OF NEW YORK

DRAWN BY: WJH	DATE: 09/12/2019
SCALE: 1"=30'	DWG.No.: 190854