SOUTHSIC STATE OF THE STATE OF

SITE LOCATION MAP

WATER ENVIRONMENT PROTECTION

FRANK MENTO, COMMISSIONER ONONDAGA COUNTY DEPARTMENT OF WATER ENVIRONMENT PROTECTION 650 HIAWATHA BLVD., W SYPACUSE, NY 13204

CONTRACT DRAWINGS

CSO-052 GREEN STREETS

CONTRACT NO. 1 BID REF. NO. ONGOV-004-0019

FAIRFIELD, HUTCHINSON, FLETCHER AND EDGEWOOD AVENUES



ONONDAGA COUNTY DEPARTMENT OF WATER ENVIRONMENT PROTECTION SYRACUSE, NEW YORK

JANUARY 2019



O'BRIEN & GERE ENGINEERS, INC.

333 WEST WASHINGTON STREET SYRACUSE, NY 13202 PHONE: (315) 956-6100 FAX: (315) 463-7554



IT IS A VIOLATION OF LAW FOR ANY PERSON UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER TO ALTER THIS DOCUMENT.

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RECORD DRAWINGS

To the best of our knowledge, information and belief these record drawings substantially represent the project as constructed.

O'BRIEN & GERE ENGINEERS, INC.

for a start

115.63990-021

- 4 RENCHMARKS AS SHOWN ON THE DRAWINGS
- 5. LOCATE, PROTECT, AND MAINTAIN ALL EXISTING CITY OF SYRACUSE SURVIEY MONUMENTS AT ALL TIMES DURING CONSTRUCTION. EXISTING SURVEY MONUMENTS SHALL NOT BE DISTURBED OR DAMAGED. INQUIRES REGARDING SURVEY MONUMENTS SHALL BE DIRECTED TO THE CITY OF SYRACUSE DEPARTMENT OF ENGINEERING, MAPPING DIVISION, AT (315) 448-8200.

ABBREVIATIONS

CATCH BASIN CAST IRON PIPE COMMUNICATION CONCRETE CB
CIP
COMM
CONC
DA
DIA
DWG
EL
ELEC
EXST
FT
G
HDPE
HORIZ
INVT
LF
MAX
MH
MIN
MON DRAINAGE AREA DIAMETER ELEVATION ELECTRIC EXISTING EXISTING
FOOT, FEET
FIRE HYDRANT
NATURAL GAS
HIGH-DENSITY POLYETHYLENE
HORIZONTAL INVERT LINEAR FOOT, LINEAR FEET MAXIMUM MANHOLE CITY OF SYRACUSE MONUMENT NOT TO SCALE NEW YORK STATE DEPARTMENT OF TRANSPORTATION OHE OHT O/C PC OVERHEAD ELECTRIC OVERHEAD TELEPHONE ON CENTER POINT OF CURVATURE PERFORATED
POINT OF TANGENCY
POLYVINYL CHLORIDE REINFORCED CONCRETE PIPE RUN-OF-CRUSHER STORM TOP OF CURB, OR TOP OF CASTING UNDERGROUND VITRIFIED CLAY PIPE VERTICAL

LEGEND

POTABLE WATER



GENERAL CONSTRUCTION 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.
- 2. NOTIFY DIG SAFELY NEW YORK (811) AT LEAST 72 HOURS PRIOR TO CONSTRUCTION
- CONTRACTOR SHALL NOTIFY THE CITY OF SYRACUSE DEPT. OF WATER, SYRACUSE POLICE AND FIRE DEPTS., AND CENTRO BUS SERVICE AT LEAST 48 HOURS PRIOR TO BEGINNING CONSTRUCTION.
- 4. ALL DISTURBED SIGNS SHALL BE RE-INSTALLED PER THE STANDARD DETAILS. ACCORDING TO THE MOST CURRENT CODE IN THE SAME LOCATION, UNLESS OTHERWISE NOTED
- 5. COORDINATES AND DIMENSIONS SHOWN FOR ROADWAY IMPROVEMENTS ARE TO FACE OF CURB OR EDGE OF PAYEMENT
- 6. PROVIDE TEMPORARY FENCING TO MAINTAIN SAFETY AND SECURITY AT ALL TIMES.
- 7. ELEVATIONS GIVEN ARE TO FINISH GRADE UNLESS OTHERWISE NOTED.
- 8. SLOPE UNIFORMLY BETWEEN CONTOURS AND SPOT ELEVATIONS SHOWN.
- 9. UNLESS SHOWN, ALL DISTURBED AREAS NOT RECEIVING A HARD SURFACE SHALL BE RESTORED WITH GRASS
- 10. PROVIDE EROSION AND SEDIMENT CONTROL MEASURES WHERE AND WHEN APPROPRIATE AS PER THE NEW YORK STATE STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL (NOVEMBER 2016). PROTECT EXISTING SITE FEATURES UNLESS OTHERWISE NOTED. CONSULT ENGINEER PRIOR TO INFILTRATION TRENCH INSTALLATION.
- 11. CONTRACTOR SHALL TAKE ALL OTHER MEASURES TO POSITIVELY PRECLUDE ERODED MATERIALS FROM LEAVING THE SITE. CONTRACTOR TO SUBMIT EROSION CONTROL PLAN.
- 12. EROSION CONTROLS MUST BE CONSTRUCTED, STABILIZED, AND FUNCTIONAL BEFORE SITE DISTURBANCE BEGINS WITHIN THE TRIBUTARY AREAS OF THOSE CONTROLS.
- 13. AFTER FINAL SITE STABILIZATION HAS BEEN ACHIEVED. TEMPORARY EROSION CONTROLS MUST BE REMOVED. AREAS DISTURBED DURING REMOVAL OF THE CONTROLS MUST BE STABILIZED IMMEDIATELY.
- 14. 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
- 15. 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.
- 17. ALL CATCH BASINS, EXISTING AND PROPOSED, THAT ARE TRIBUTARY TO THE INFILTRATION PRACTICES SHALL BE FITTED WITH A CATCH BASIN FILTER INSERT (ADS FLEXSTORM PURE FX FILTER OR APPROVED EQUAL). FILTER INSERTS SHALL BE INSTALLED PRIOR TO CONNECTING CATCH BASIN TO INFILTERATION PRACTICE.
- 18. ALL CATCH BASINS CONNECTED TO SEWER NEED TO BE INSTALLED WITH A CAST IRON TRAP (EJ 5954 OR
- 19. AGGREGATE FOR STORMWATER INFILTRATION TRENCHES SHALL BE CLEAN-WASHED PRIOR TO PLACEMENT
- 20. MAINTAIN LOOSE AND UNDISTURBED STORMWATER INFILTRATION TRENCH SUBGRADE. SCARIFY TOP 6 INCHES DO NOT ALLOW CONSTRUCTION EQUIPMENT ON TRENCH BOTTOM SURFACE.
- VERIFY ALL EXISTING UTILITIES AND OTHER IMPROVEMENTS PRIOR TO START OF WORK AND IMMEDIATELY NOTIFY ENGINEER OF POTENTIAL CONFLICTS WITH PROPOSED WORK.

- 22 WATER/SEWER CROSSING SHALL MEET REQUIREMENTS SHOWN ON DETAIL SHEET C-501
- 22. CONTRACTOR SHALL NOTIFY THE CITY OF SYRACUSE DEPT OF PUBLIC WORKS AT LEAST SHADURE IN ADVANCE OF CONNECTION OF SORWING HEAD AND HEAD OF CONNECTION OF SORWING HEAD OF CONNECTION. FIGURE OF CONTRACTOR WILL BE RESPONSIBLE FOR RE-EXCAVATING AROUND THE CONNECTION OF CITY DWW APPROVAL CONNECTION TO SERVER MAN OR LATERALS MUST BE PERFORMED BY A NYS LICENSED PLUMBER AND REQUIRES A PLUMBING PERMIT THROUGH ONONDAGA COUNTY
- 24. CONNECTIONS TO THE COMBINED SEWER THAT HAVE BEEN DESIGNATED TO BE PLUGGED, SHALL BE ABANDONED IN THE FOLLOWING MANNER:

 AT EXISTING CATCH BASIN: PLUG OPENING WITH BRICK AND MORTAR.
 - · AT EXISTING PIPE: PLUG WITH A FERNCO QUIK CAP OR EQUAL, ENCASED IN CONCRETE
- 25. PROTECT EXISTING TREES DURING CONSTRUCTION, AND CRITICAL ROOT ZONES (CRZ) UNDER DRIP LINES OFF TREE CANOPY FROM COMPACTION BY EQUIPMENT. CONSTRUCTION MATERIAL NOT TO BE STORED ON GRASS I
- 26. UNLESS OTHERWISE NOTED, EXISTING GRANITE CURBING IS TO BE LEFT IN PLACE OR REPLACED TO THE NEAREST JOINT FROM THE DISTURBED AREA. ANY NEW OR RESET CURBING MUST HAVE THE JOINTS
- 27. 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 FT CO (MAX.): OVERLAP SHEETING 8 Y 2 FT (MIN.), EXTEND SHEETING 12 MICHES BEYOND BOTH ENDS OF STORMWATER FACILITY, OVERLAP GEOMEMBRANE SHEETING A MINIMUM OF 14 OF THE PIPE CIRCLIMFERENCE AND ENSURE OVERLAP RUNS ALONG CROWN OF PIPE. SLEEVES AND CASINGS SHALL BE MIGHTURE FREE BEFORE SEALING.
- 28. WHERE DISTURBED DURING CONSTRUCTION. ALL EXISTING MANHOLE AND CATCH BASIN FRAMES AND COVERS SHALL BE REPIXED TO A MINIMUM OF 2 COURSES OF BRICK, WHICH SHALL BE REPIXED DIT THE CONTRACTOR'S EXPENSE.

 WORK SHALL BE PERFORMED AT THE CONTRACTOR'S EXPENSE.
- 29 CONTRACTOR SHALL PREPARE A TRAFFIC CONTROL PLAN FOR VEHICLILAR AND PEDESTRIAN TRAFFIC IN ACCORDANCE WITH THE FEDERAL HIGHWAY ADMINISTRATION MEMBAL, ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS BUTTON, TRAFFIC CONTROL PLAN SHALL BE APPROVED BY THE CITY OF SYRACUSE PRIOR TO THE COMMENCEMENT OF ALL CONSTRUCTION ACTIVITIES. ALL TRAFFIC CONTROL DEVICES SHALL REASHIN IN PLACE AND PROPERTY MAINTAINED FOR THE DURRATION OF THE WORK.
- 30. WHERE DISTURBED, CONCRETE SIDEWALK TO BE REPLACED IN FULL WIDTH TO CLOSEST JOINT FROM
- 31. ADJUST TOPS OF EXISTING DRAINAGE STRUCTURES TO ENSURE POSITIVE DRAINAGE, IN ACCORDANCE WITH NYSDOT STANDARD SHEET 604-2.
- 32. AT CLOSE OF PROJECT, AS-BUILT RECORD DRAWINGS VERIFYING ALL STRUCTURE ELEVATIONS SHALL BE COMPLETED BY A NYS LICENSED SURVEYOR. GPS COORDINATES ARE REQUIRED FOR ALL CLEANOUT TOPS
- AT CLOSE OF PROJECT, CONTRACTOR SHALL VACUUM ALL STRUCTURES CONNECTED TO GI PRACTICES AND CLEAN FILTER INSERTS WITHIN PROJECT AREA.
- 34. ALL WATER VALVE BOXES, SEWER CLEANOUTS, AND SEWER VENTS SHALL BE RESET TO MATCH NEW GRADES.

- 35. LEAD WATER SERVICES ENCOUNTERED DURING THE PROJECT WILL NEED TO BE REPLACED FROM THE MAIN TO THE CURB BOX. COORDINATE LEAD SERVICE REPLACEMENT WITH SYRACUSE WATER DEPARTMENT FOR THE CURB BOX. COORDINATE LEAD SERVICES AT 125 SARVINE AND THE CUTY OF STRACUSE LISTS LEAD SERVICES AT 125 SARVINE AND THE CUTY OF STRACUSE LISTS LEAD SERVICES AT 125 SARVINE DAVE. 129 FARRIFIED AVE., 131 FAIRFIELD AVE., 135 FARRIFIED AVE., 135 FARRIFIED AVE., 130 FAIRFIED AVE. 130 FAIRFIED AVE. 131 FAIRFIED AVE. 131 SAFARRIFIED AVE. 200 300 HUTCHINSON AVE REPLACED. THE HUTCHINSON A
- ALL STORM SEWER STRUCTURES AND LATERALS WITHIN WORK AREA TO BE CLEANED AND INSPECTED PRIOR TO CONNECTING OVERFLOWS.
- 37. IF A LATERAL IS FOUND DAMAGED, CONTACT THE ENGINEER IMMEDIATELY.
- 38. IF FIRE HYDRANT/WATER MAIN LEAKS ARE FOUND CONTACT THE ENGINEER AND SYRACUSE WATER DEPT
- ALL ADA SIDEWALK RAMP INSTALLATIONS SHALL MEET THE CURRENT NYSDOT STANDARDS. ALL SIDEWALKS SHALL BE ADA COMPLIANT. SEE BELOW NOTES REGARDING CITY OF SYRACUSE SIDEWALK/ADA REPLACEMENT.
- 40. CONTRACTOR MUST MAINTAIN 18-INCHES OF SEPARATION FROM GAS MAINS. ALL GAS MAIN CROSSINGS NEED BE LIMITED TO 3-FEET IN WIDTH. NATIONAL GRID MUST BE PRESENT TO WITNESS CROSSIN
- 41. ASPHALT TO BE MILLED FROM THE INSIDE EDGE OF TRENCHES TO THE EDGE OF ASPHALT
- 42. ANTI-SEEP COLLARS SHALL BE PLACED IN LOCATIONS WHERE PIPE IS LEAVING AN INFILTRATION TRENCH AND

CITY OF SYRACUSE SIDEWALK/ADA RAMP REPLACEMENT 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 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 IT IDE INTO THE EXISTING SIDEWALK. THE LAST FLAG OF SIDEWALK REPLACEMENT MAY BE PLACED OUT OF ADA COMPLIANCE TO FACILITATE TYING INTO
- 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 REPLACED FLAGS TO TIE INTO THE EXISTING SIDEWALK
- 4. WHEN INSTALLING NEW SIDEWALK THAT REPLACES SIDEWALK THAT WAS PREVIOUSLY LESS THAN THE STANDARD 5 WIDTH, THE CONTRACTOR SHALL MAINTAIN THE BACK EDGE OF THE SIDEWALK AND EXTEND THE ADDED SIDEWALK WIDTH TOWARD CURB, UNLESS OTHERWISE APPROVED BY THE ENGINES.
- 5. WHEN NEW SIDEWALK ENCROACHES UPON EXISTING MATURE TREES, THE SIDEWALK WIDTH IS ALLOWED TO DECREASE TO MINIMUM # WIDTH AROUND THE TREE. THE TEMPORARY DECREASE IN SIDEWALK WIDTH AROUND TREES MUST BE APPROVED BY THE ENSIN

RECORD DRAWINGS To the best of our knowledge, information and belief, these record drawings substantially represent the project as constructed.

O'BRIEN & GERE ENGINEERS, INC.

By: _

ILE NO. 115.63990 -022

JANUARY 2019

C-001

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THIS DRAWING WAS PREPARED AT THE SCALE INDICATED INACCURACIES IN THE STATED SCALE MAY BE INTRODUCED WHEN DRAWINGS ARE REPRODUCED BY ANY MEANS.
USE THE GRAPHIC SCALE BAR TO DETERMINE THE ACTUAL SCALE.

DRAWING IS NOT SCALABLE WHEN NO SCALE BAR IS PRESENT CHARGE OF R. GANLEY GNED BY M. LASELL ECKED BY C. FIORELLO 11/06/2020 RECORD DRAWINGS 0 01/24/2019 ISSUED FOR BID

O'BRIEN & GERE ENGINEERS, INC VEST WASHINGTON ST. SYRACUSE. NY 1322

ONONDAGA COUNTY DEPARTMENT OF WATER ENVIRONMENT PROTECTION **GREEN STREETS - CSO-052** SYRACUSE, NEW YORK

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EXISTING SURVEY PROVIDED FOR

FAIRFIELD AND HUTCHINSON AREA

FAIRFIELD AND HUTCHINSON AREA

TABLE OF BENCHMARKS					
BM #	DESCRIPTION	ELEV. (FT)			
8M #1	RR SPIKE IN UTILITY POLE NG15 AT THE NW CORNER OF FAIRFIELD AVE. AND EDGEWOOD AVE.	551.34			
8M H2	"X" ON N BOLT OF HYDRANT AT THE SE CORNER OF HUTCHINSON AVE. AND EDGEWOOD AVE.	551.91			
8M #3	RR SPIKE IN LIGHT POLE NM12 AT THE SW CORNER OF HUTCHINSON AVE. AND RUSSELL PL.	552.92			

EXISTING SURVEY PROVIDED FOR

FAIRFIELD AND HUTCHINSON AREA as

RECORD DRAWINGS

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O'BRIEN & GERE
ENGINEERS, INC.
By:

By: _

ILE NO. 115.63990 -023

C-002

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UNLESS ACTING LINDER THE DREFOTON OF A MACCINACISM IN THE STATED SCALE MYS BE INTRODUCED.

LICENSED ENGINEER, TO ALTER THIS DOCUMENT. WHEN DRAWNES ARE REPRODUCED BY MY MEANS.

THE GRAPHIC SCALE BART OD ETERMINE THE ACTIVAL SCALE.

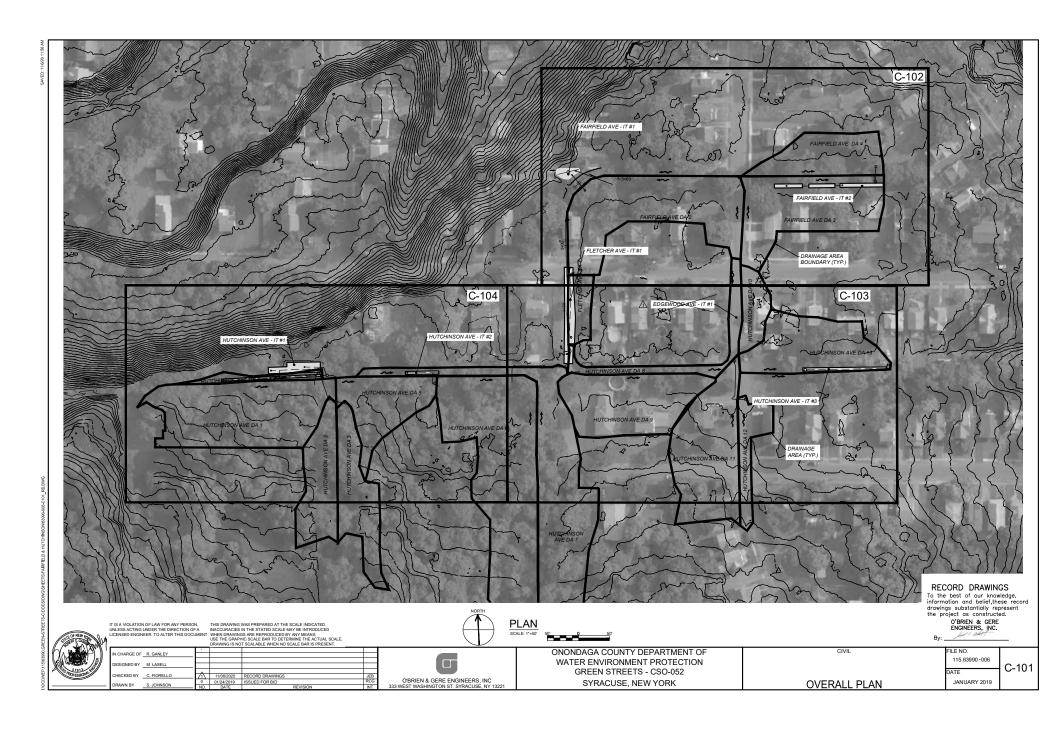
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IN CHARGE OF R. GANLEY	_								
DESIGNED BY M. LASELL									
CHECKED BY C FIORELLO	Α.	11/06/2020	RECORD DRAWINGS	JEB					
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DRAWN BY S. JOHNSON	NO.	01/24/2019 DATE	REVISION	INT.					

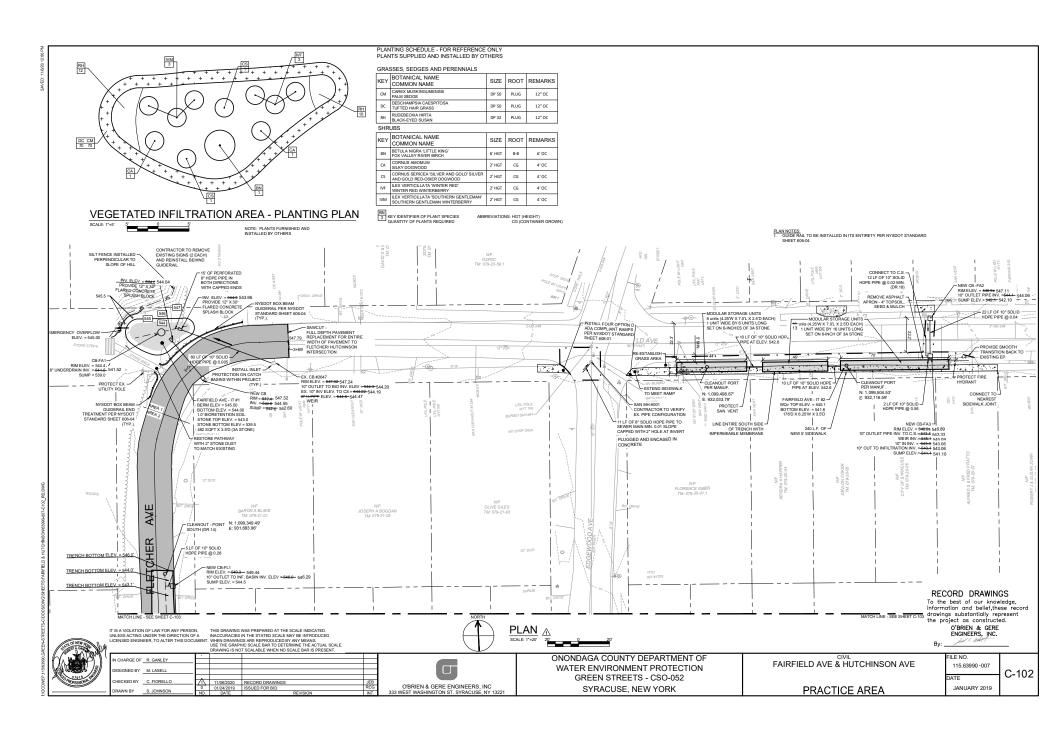


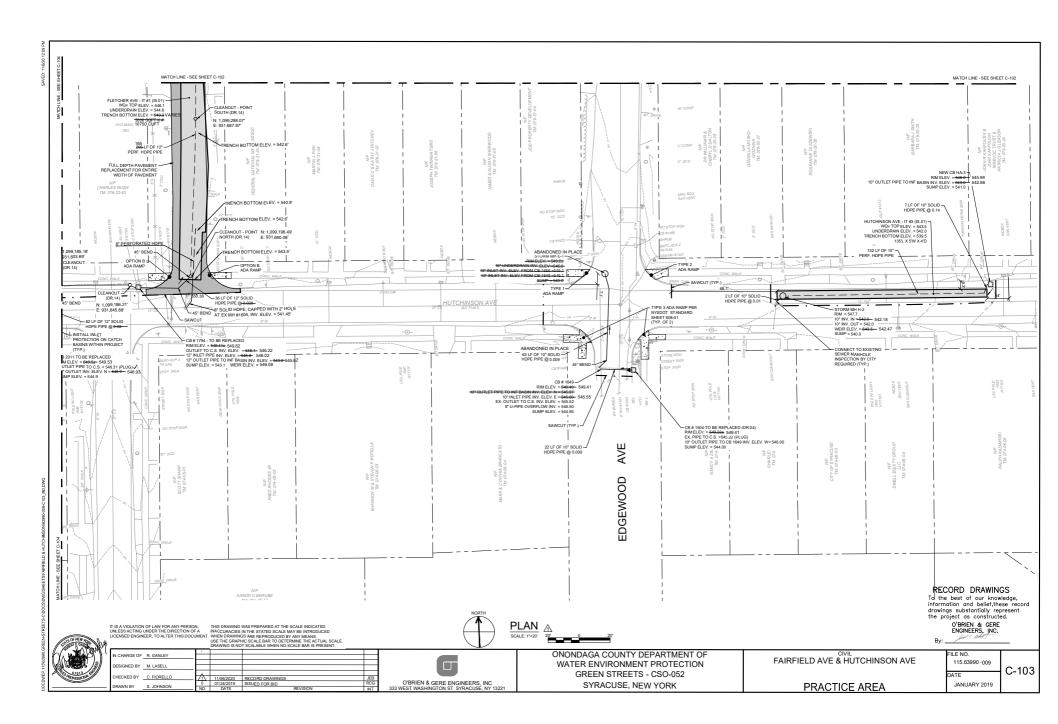
ONONDAGA COUNTY DEPARTMENT OF WATER ENVIRONMENT PROTECTION GREEN STREETS - CSO-052 SYRACUSE, NEW YORK

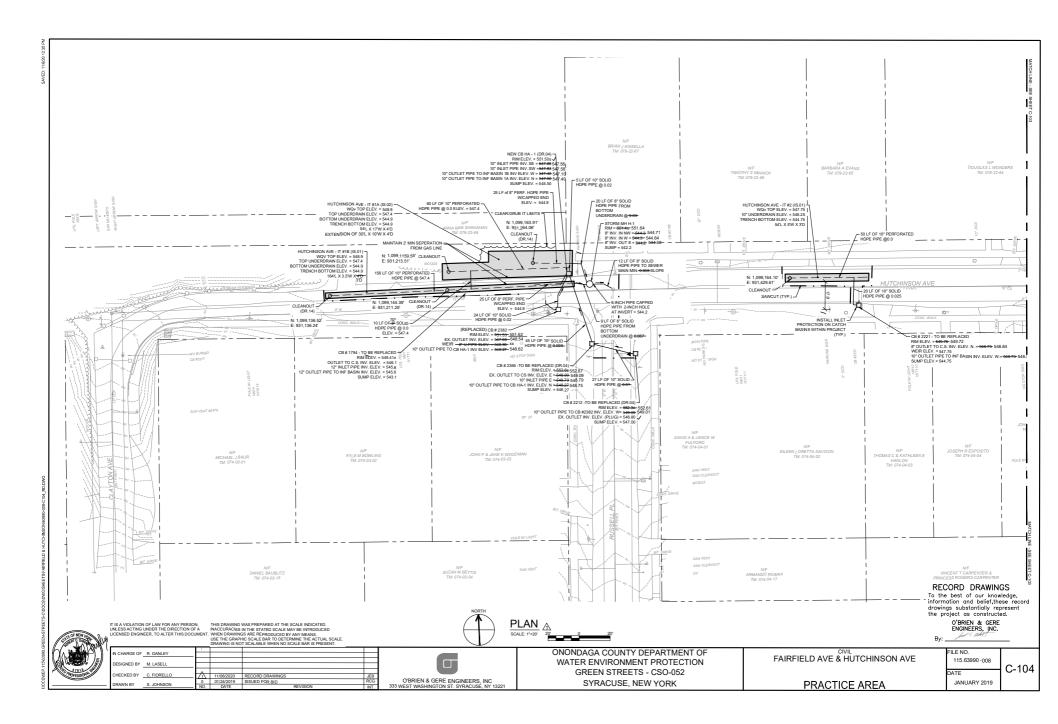
TABLE OF STRUCTURES AND EXISTING DATE RIMS & INVERTS

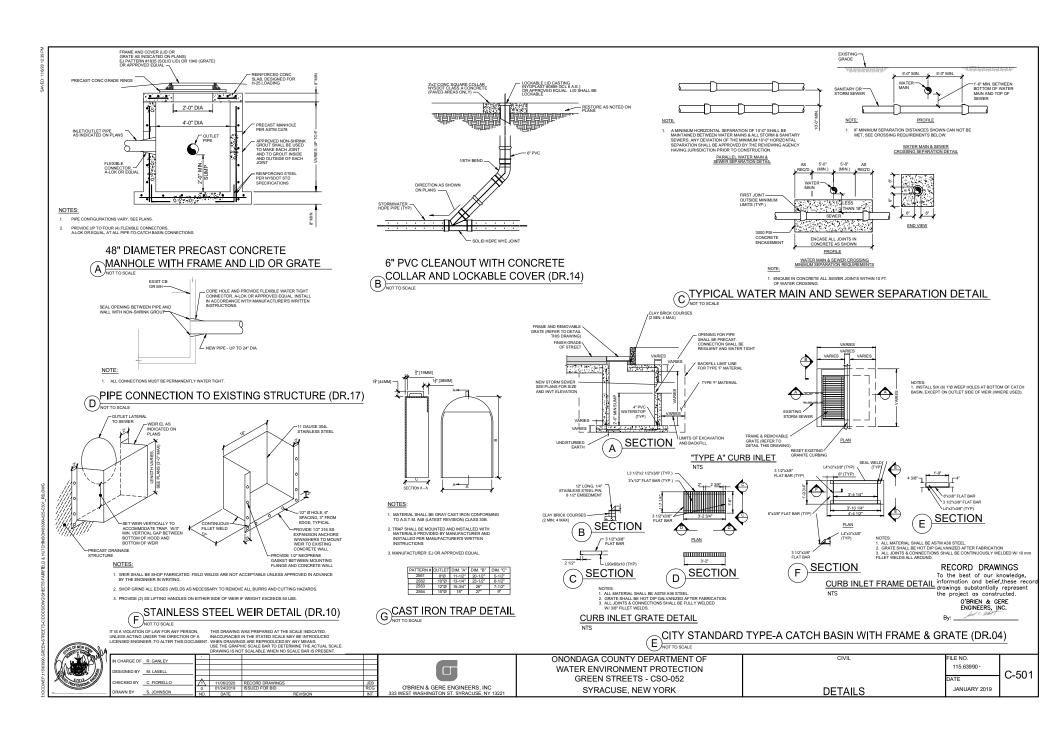
JANUARY 2019

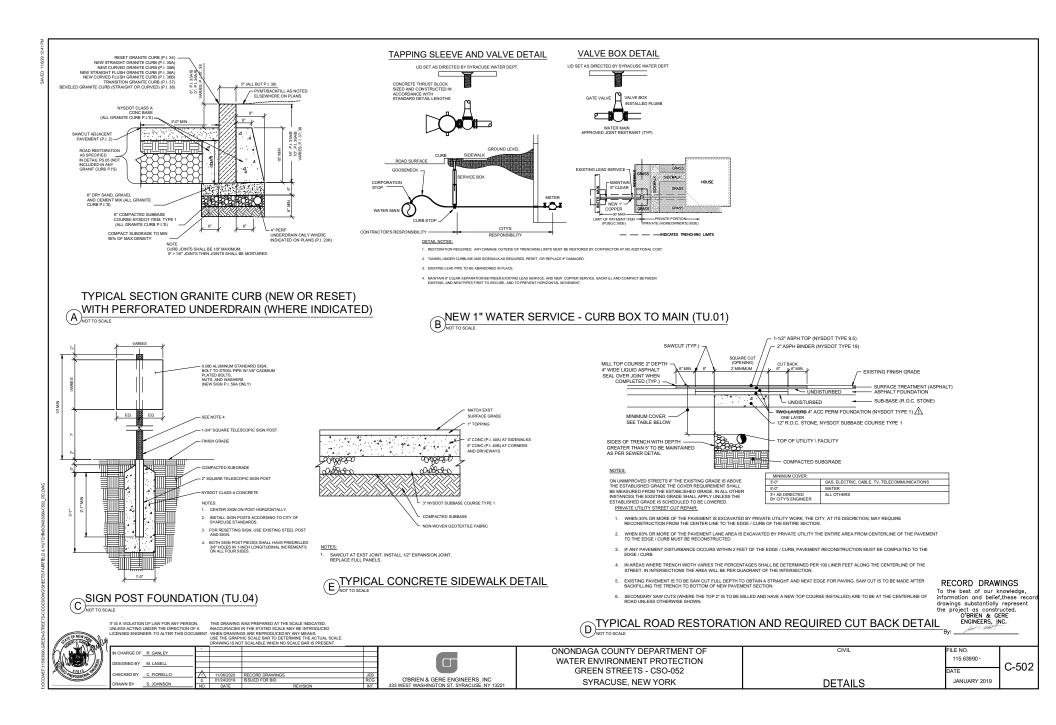






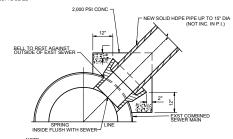






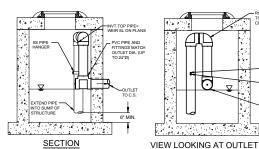
NOTE: FIRST TWO LIFTS - SHOVEL TAMPED REMAINING LIFTS - USE PNEUMATIC TAMPER

HDPE PIPE BEDDING NOT IN INFILTRATION TRENCH



NOTE: CONNECTION TO BE CORE DRILLED AND IS TO BE PERFORMED BY A LICENSED PLUMBER IN THE PRESENCE OF CITY DEPARTMENT OF PUBLIC WORKS.

PIPE CONNECTION TO EXISTING SEWER MAIN (DR.18) G NOT TO SCALE



PVC U-PIPE (DR.09)

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CHARGE OF R. GANLEY

GNED BY M. LASELL

ECKED BY __C. FIORELLO

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WATER ENVIRONMENT PROTECTION **GREEN STREETS - CSO-052** SYRACUSE, NEW YORK

ONONDAGA COUNTY DEPARTMENT OF

NYSDOT No. 3A CRUSHED AND

1/2" WIDE STAINLESS STEEL CLAMP (EACH SIDE) CONTINUOUS PLASTIC

RESTORE AS NOTED ON PLANS, BLEND AND MEET EXST GRADE

SECTION A-A

LAWN SECTIONS: 12" PLANTING SOIL OVER WRAPPED TYPE 3A STONE ON DETAIL D SHEET C-502 4" TOPSOIL SEED AND MUI CH ₽₩ NYSDOT No. 3A STONE -RIVERSTONE)CLEAN, ROUND NYSDOT #2 STONE) - PLACED IN A 1-FT RING AROUND STRUCTURE @2-1. SECURE WITH GRAVEL-LOK ADHESIVE OR APPROVED EQUAL PERF HDPE AT ELEV. SHOWN ON DRAWINGS SCARIFY BOTTOM OF EXCAVATION MIN 6" DEEP PRIOR TO BACKFILLIN LINE SIDE/S OF TRENCH W/ 30 MIL IMPERMEABLE LINER IN LIEU OF GEOTEXTILE IF INDICATED ON PLANS TRENCH WIDTH AS SHOWN ON PLANS

DETAIL NOTES:

CITY OF SYPACIESE CUTBACK

IREMENTS AS SHOWN

UPON COMPLETION OF SUBGRADE WORK, THE OWNER AND OWNER'S REPRESENTATIVE SHALL BE NOTIFIED AND SHALL INSPECT AT THEIR DISCRETION BEFORE PROCEEDING WITH INFILTRATION BED INSTALLATION.

2. NON-WOVEN GEOTEXTILE AND BED AGGREGATE SHALL BE PLACED IMMEDITLY AFTER APPROVAL OF SUBGRADE PREPARATION. ANY ACCUMULATION OF DEBRIS OR SEDIMENT WHICH HAS TAKEN PLACE AFTER APPROVAL OF SUBGRADE SHALL BE REMOVED PRIOR TO INSTALLATION OF NON-WOVEN GEOTEXTILE AT NO EXTRA COST TO THE OWNER.

3. PLACE NON-WOVEN GEOTEXTILE IN ACCORDANCE WITH MANUFACTURERS STANDARDS AND RECOMMENDATIONS. ADJACENT STRESS OF NOW-WOVEN GEOTEXTILE SHALL OPERLIAR A MINIMUM OF STRETE NOVERS (FG.) SECURE MINIMUM OF STRETE NOVERS (FG.) SECURE MAY REMOVED A STRETE NOVERS (FG.) SECURE NOVERS (FG.) SE

4. INSTALL BRILLTRATION BED ACCREGATE TO GRADES INDICATED ON THE DRAWNINGS. INSTALL COARSE ACCREGATE IN SIR BRICH MAXIMUM LETS LIGHTLY COMMERCE ACCAMPACT AND AN AREA WITH EQUIPMENT, KEEPING EQUIPMENT MOXIMUM OVER STORAGE BED SUBGRADES TO A MINIMUM. INSTALL PERFORATED PIPE, CLEANOUTS/OBSERVATION WELLS AS INDICATED ON THE PLANS.

5. SHOULD THE OWNER OR OWNERS REPRESENTATIVE DETERMINE THAT CONTAMINATION OF THE INFILTRATION BED HAS OCCURRED, THE CONTRACTOR SHALL REPLACE THE INFILTRATION BED STONE AT NO ADDITIONAL COST TO THE OWNER.

INFILTRATION BASIN TRENCH UNDER PAVEMENT (IS.01)

UNDER LAWN (IS.02)

RECORD DRAWINGS

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PAVEMENT: ASPHALT OVER 12" ROC (MIN.)

AS SHOWN ON ON DETAIL D. SHEET C-502

ENGINEERS, INC.

By: 115.63990 -C-503

UNDISTURBED / UNCOMPACTED SUBGRADE -DIMENSIONS PER PLAN PERFORATED HOPE DISTRIBUTION PIPE SEE PLAN FOR EXACT LOCATION DETAIL NOTES: UPON COMPLETION OF SUBGRADE WORK. THE OWNER AND OWNER'S REPRESENTATIVE SHALL BE NOTIFIED AND SHALL INSPECT AT THEIR DISCRETION BEFORE PROCEEDING WITH INFILTRATION BED INSTALLATION. FUNCE NUM-WOVEN (BEDIEXILE IN ACCORDANCE WITH MANUFACTURERS STANDARDS AND RECOMMENDATIONS. ADJACENT STRIPS OF NON-WOVEN GEOTEXTLE SHALL OVER APA MINIMAN OF SKITEEN NOHES (19). SECURE NON-WOVEN GEOTEXTLE AT LEAST FOUR FEET (4) OUTSIDE OF BED AND TAKE STEPS NECESSARY OF PREVENT ANY RANDOF OR SEMBINET FROM WEITERS THE BEE. THIS GEOTESTARE LEGGE STRIP POWER MEAN IN PAGE UNITS. ALL BARE SOUS CONTISCUOS TO AND INTERCORD HED OF THE STEPS HE SECURE AND A STEPS HE ADDRESS AND A STEPS HE SECURE AND A STEPS HE SECURE AND A STEPS HE ADDRESS AND A STEPS HE ADDRES

NON-WOVEN GEOTEXTILE AND BED AGGREGATE SHALL BE PLACED IMMEDIATELY AFTER APPROVAL OF SUBGRADE PREPARATION, ANY ACCUMULATION OF DEBRIS OR SEDIMENT WHICH HAS TAKEN PLACE AFTER APPROVAL OF SUBGRADE SHALL BE REMOVED PRIOR TO INSTALLATION OF NON-WOVEN GEOTEXTILE AT NO EXTRA COST TO THE OWNER.

NYLON OR STAINLESS STEEL BOLT (TYP)

DMENSION "W" SHALL BE THREE TIMES THE DAMFTER OF THE INTERSECTING PIPE CONNECTING BAND SHALL BE SEALED AT BOTH ENDS WITH NON-SPRINK GROUT. SHALL BE SEALED AT BOTH ENDS WITH NON-SPRINK GROUT. STANLESS STEEL SHALL BE GROWN SHOOT BETTER THATEFARM. STANLESS TEEL SHALL BE GROWN SHOOT BETTER THE STANLESS THE SHALL BE SHALL

TYPICAL ANTI-SEEP COLLAR

PLANTINGS BY OTHERS

LOCKABLE PVC DOMED RISER

3. PLACE NON-WOVEN GEOTEXTILE IN ACCORDANCE WITH MANUFACTURER'S STANDARDS AND RECOMMENDATIONS ADJACENT STRIPS OF NON-WOVEN GEOTEXTILE

SHOULD THE OWNER OR OWNER'S REPRESENTATIVE DETERMINE THAT CONTAMINATION OF THE INFILTRATION BED HAS OCCURRED, THE CONTRACTOR SHALL REPLACE THE INFILTRATION BED STONE AT NO ADDITIONAL COST TO THE OWNER.

5. CONSTRUCTION SHALL BE UNDERTAKEN IN SUCH A WAY AS TO PREVENT CONTAMINATION OF THE STONE AND PLANTING SOIL WITH SEDIMENT AND FINES FROM THE SITE OR EQUIPMENT.

6. PROTECT NEWLY GRADED AREAS FROM TRAFFIC, FREEZING AND EROSION. KEEP FREE OF TRASH, DEBRIS OR CONSTRUCTION MATERIALS.

WITHIN THE INSTALLATION WARRANTY PERIOD REPAIR AND RE-ESTABLISH GRADES TO SPECIFIED TOLERANCES WHERE COMPLETED OR PARTIALLY COMPLETED SURFACES BECOME ERODED, RUTTED, SETTLED, OR COMPACTED DUE TO SUBSEQUENT CONSTRUCTION OPERATIONS OR WEATHER CONDITIONS.

8 SCARIEY A MINIMUM OF 6"

3" MULCH LAYER

BOTTOM OF INFILTRATION TRENCH

LEVEL INFILTRATION TRENCH BOTTOM

9. CONTRACTOR IS RESPONSIBLE TO ESTABLISH GRASS TURF OUTSIDE OF THE INFILTRATION AREA

•••(|)

NOTES:

UPSTREAM ELEVATION

DVEGETATED INFILTRATION AREA FAIRFIELD AVE IT #1

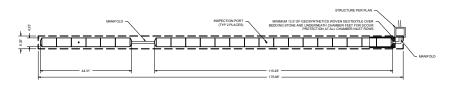
DETAILS JANUARY 2019

STORMWATER CHAMBER SPECIFICATIONS

- CHAMBERS SHALL BE STORMTECH SC-740 OR APPROVED EQUAL.
- CHAMBERS SHALL BE ARCH-SHAPED AND SHALL BE MANUFACTURED FROM VIRGIN. IMPACT-MODIFIED POLYPROPYLENE COPOLYMERS
- CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2418-16st, "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
- CHAMBER ROWS SHALL PROVIDE CONTINUOUS, UNOBSTRUCTED INTERNAL SPACE WITH NO INTERNAL SUPPORTS THAT WOULD IMPEDE FLOW OR LIMIT ACCESS FOR INSPECTION.
- THE STRUCTURAL DESIGN OF THE CHAMBERS, THE STRUCTURAL BLOCFFLL AND THE INSTALLATION REQUIREMENTS SHALL BISINET HAN THE LOAD FACTORS SPECFED IN THE ASSITOL BESIDNED EDSIGN SEPECHATIONS, SECTION 1272, ARE MET FOR 11, LINCA DUPATION DEFOLORISM, MOY 2 SHORT CHARACTURATION LIVE LOADS, BASED ON THE ANSHTO DESIGN TRUCK WITH CONSIDERATION FOR IMPACT AND MULTIPLE VEHICLE PRESENTS.
- CHAMBERS SHALL BE DESIGNED, TESTED AND ALLOWABLE LOAD CONFIGURATIONS DETERMINED IN ACCORDANCE WITH ASTIN FZIZY, "STANDARD PRACTICE FOR STRUCTURAL DESIGNO OF THERMOPLASTIC CORRUCATED WAIL STORMANTER COLLECTION CHAMBERS". LOAD CONFIGURATIONS SHALL INCLIDE: IN CONFIGURATION SHALL INCLIDE: INCREASE OF THE CONFIGURATION SHALL INCLIDE: INCREASE OF THE CONFIGURATION SHALL INCLIDE: INCREASE OF THE CONFIGURATION OF THE CONFIGURATION
- REQUIREMENTS FOR HANDLING AND INSTALLATION:
 TO MAINTAIN THE WIDTH OF CHAMBERS DURING SHIPPING AND HANDLING, CHAMBERS SHALL HAVE
- TO MARTINI TIES WILLIO LE COMMERCIS LOURS IN DIFFERENCIA DE PROPERTION DE L'ORGENE DI ACTUAL DE L'ORGENE DI ACTUAL D
- ONLY CHAMBEDS THAT ARE ADDROVED BY THE SITE DESIGN ENGINEED WILL BE ALLOWED LIDON DEGLIEST BY
- ONLY CHAMBERS THAT ARE APPROVED BY THE STIE DESIGN ENGINEER WILL BE ALLOWED. LOVE REQUEST BY THE ENGINEER FOR OWMER THE CHAMBER MANAFACTINES BY SHILL SUBMIT A STRUCTURAL EVALUATION FOR THE ENGINEER OF CHAMBER AND ADMINISTRATION FOR THE STRUCTURAL EVALUATION SHILL BE SEALED BY A RECISTERED PROFESSIONAL BROWNER. THE STRUCTURAL EVALUATION SHILL BE SEALED BY A RECISTERED PROFESSIONAL BROWNER. THE STRUCTURAL EVALUATION SHILL BE SEALED BY A RECISTERED PROFESSIONAL BROWNER. THE STRUCTURAL EVALUATION SHILL BE SEALED BY A RECISTERED PROFESSIONAL BROWNER. ON THE STRUCTURAL EVALUATION SHIP AND ADMINISTRATION FOR A STATE PARTY OF THE STRUCTURAL SHIP AND ADMINISTRATION FOR A STATE PARTY OF THE STRUCTURAL SHIP AND ADMINISTRATION FOR A STATE PARTY SHALL BE INSERT OF PREMINENT DEAD LOAD DESIGN RECEIPT AND THE SHALL BE IN SHALL BE INSERT OF PREMINENT DEAD LOAD DESIGN RECEIPT AND THE SHALL BE IN SHAM DOUGH US DEFORMED.
- 9. CHAMBERS AND END CAPS SHALL BE PRODUCED AT AN ISO 9001 CERTIFIED MANUFACTURING FACILITY.

INSTALLATION NOTES:

- CHAMBERS SHALL NOT BE INSTALLED UNTIL THE MANUFACTURER'S REPRESENTATIVE HAS COMPLETED A PRE-CONSTRUCTION MEETING WITH THE INSTALLERS.
- 2. CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
- CHAMBERS ARE NOT TO BE BACKFILLED WITH A DOZER OR AN EXCAVATOR SITUATED OVER THE CHAMBERS PTABLE BACKFILL METHODS: STONESHOOTER LOCATED OFF THE CHAMBER BED.
- BACKFILL AS ROWS ARE BUILT USING AN EXCAVATION ON THE FOUNDATION STONE OR SUBGRADE. BACKFILL FROM OUTSIDE THE EXCAVATION USING A LONG BOOM HOE OR EXCAVATOR.
- THE FOUNDATION STONE SHALL BE LEVELED AND COMPACTED PRIOR TO PLACING CHAMBERS
- 5 JOINTS RETWEEN CHAMBERS SHALL BE PROPERLY SEATED PRIOR TO PLACING STONE
- MAINTAIN MINIMUM 6" SPACING BETWEEN THE CHAMBER ROWS.
- EMBEDMENT STONE SURROUNDING CHAMBERS MUST BE A CLEAN, CRUSHED, ANGULAR STONE 3/4-2*.
- THE CONTRACTOR MUST REPORT ANY DISCREPANCIES WITH CHAMBER FOUNDATION MATERIALS BEARING CAPACITIES TO THE ENGINEER.
- INLETS SHALL NOT BE CONNECTED UNTIL THE CHAMBER BED IS COMPETE AND THE FILTER BASKETS HAVE BEEN INSTALLED.

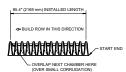


ACCEPTABLE FILL MATERIALS

		ACCEPTABLE TIEL	WATERIALS				
	MATERIAL LOCATION	DESCRIPTION	AASHTO MATERIAL CLASSIFICATIONS	COMPACTION / DENSITY REQUIREMENT			
D	FINAL FILL: FILL MATERIAL FOR LAYER TO' STARTS FROM THE TOP OF THE C' LAYER TO THE BOTTOM OF FLEXIBLE PAYMEMENT OR UNPAYED FINISHED GRADE ABOVE. NOTE THAT PAYEMENT SUBBASE MAY BE PART OF THE 'D' LAYER	ANY SOL/ROCK MATERIALS, NATIVE SOILS, OR PER ENGINEER'S PLANS. CHECK PLANS FOR PAVEMENT SUBGRADE REQUIREMENTS.	PER PLANS	PER SPECIFICATIONS			
С	INITIAL FILL: FILL MATERIAL FOR LAYER 'C' STARTS FROM THE TOP OF THE EMBEDMENT STONE (ET LAYER) TO 16" (450 mm) ABOVE THE TOP OF THE CHAMBER NOTE THAT PAVEMENT SUBBASE MAY BE A PART OF THE 'C' LAYER.	GRANUAR WELL-GRADED SOIL/AGGREGATE MIXTURES, -35% FINES OR PROCESSED AGGREGATE. MOST PAVEMENT SUBBASE MATERIALS CAN BE USED IN LIEU OF THIS LAYER.	NYSDOT TYPE 1 - R.O.C.	BEGIN COMPACTIONS AFTER 12" OF MATERIAL OVER THE CHAMBERS IS REACHED. COMPACT ADDITIONAL LAYERS IN 6" MAX LIFTS TO A IMIN. 95%, PROCTOR DENSITY FOR WELL GRADED MATERIAL AND 95% RELIATURE DENSITY FOR PROCESSED AGGREGATE MATERIALS. ROLLER GROSS VEHICLE WIEIGHT NOT DE OXCEED 12:00 lbs. DYNAMIC FORCE NOT TO EXCEED 12:00 lbs. DYNAMIC FORCE NOT TO EXCEED 20:000 lbs.			
В	EMBEDMENT STONE: FILL SURROUNDING THE CHAMBERS FROM THE FOUNDATION STONE (A' LAYER) TO THE 'C' LAYER ABOVE.	CLEAN, CRUSHED, ANGULAR STONE	NYSDOT 3A	NO COMPACTION REQUIRED.			
А	FOUNDATION STONE: FILL BELOW CHAMBERS FROM THE SUBGRADE UP TO THE FOOT (BOTTOM) OF THE CHAMBER.	CLEAN, CRUSHED, ANGULAR STONE	NYSDOT 3A	PLATE COMPACT OR ROLL TO ACHIEVE A FLAT SURFACE. ^{2,3}			

- THE LISTED ASHTO DESIGNATIONS ARE FOR GRADATIONS ONLY. THE STONE MUST ALSO BE CLEAN, CRUSHED, ANGULAR, FOR EXAMPLE, A SPECIFICATION FOR #3A STONE WOULD STATE: "CLEAN.
- THE LIST BE MANTH OF BEATMINES ARE FOR EVALUATIONS URLY. HE STUDE MUST ASSOCIATED, AND DEVELOP, AND DEVELOP,









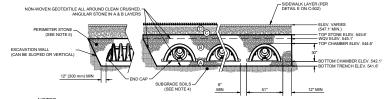


NOMINAL CHAMBER SPECIFICATIONS SIZE (W X H X INSTALLED LENGTH) CHAMBER STORAGE MINIMUM INSTALLED STORAGE* WEIGHT

51.0" X 30.0" X 85.4

ASSUMES 6 ABOVE, BELOW, AND BETWEEN CHAMBERS





NOTES:

- 2. CHAMBERS SHALL BE DESIGNED IN ACCORDANCE WITH ASTM F2787 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
- "ACCEPTABLE FILL MATERIALS" TABLE ABOVE PROVIDES MATERIAL LOCATIONS, DESCRIPTIONS, GRADATIONS, AND COMPACTION REQUIREMENTS FOR FOUNDATION, EMBEDMENT, AND FILL MATERIALS.
- 4. SCARIFY SUBGRADE
- 5. PERIMETER STONE MUST BE EXTENDED HORIZONTALLY TO THE EXCAVATION WALL FOR BOTH VERTICAL AND SLOPED EXCAVATION WALLS.
- 6. ONCE LAYER 'C' IS PLACED, ANY SOILMATERIAL CAN BE PLACED IN LAYER 'D' UP TO THE FINISHED GRADE.

A STORMWATER CHAMBER DETAIL FOR FAIRFIELD AVE IT#2

RECORD DRAWINGS

To the best of our knowledge, information and belief,these record drawings substantially represent the project as constructed. O'BRIEN & GERE ENGINEERS, INC.



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ONONDAGA COUNTY DEPARTMENT OF WATER ENVIRONMENT PROTECTION **GREEN STREETS - CSO-052** SYRACUSE, NEW YORK

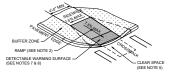
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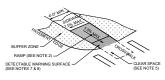
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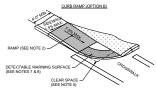
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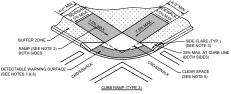




CURB RAMP (OPTION D)



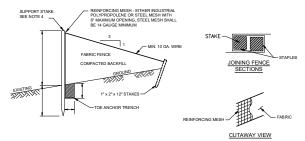
CURB RAMP (TYPE 2)



NOTES:

- 1. THE MINIMUM WIDTH OF A CURB RAMP SHALL BE 4'-0".
- THE GRADE (RUNNING SLOPE) OF A CURB RAMP SHALL BE A MINIMUM OF 5%. THE GRADE FOR DESIGN AND LAYOUT SHALL BE A MAXIMUM OF 7.5%. THE GRADE FOR ADA ACCESSIBILITY AND WORK ACCEPTANCE SHALL BE A MAXIMUM OF 8.3%.
- WHERE A PEDESTRIAN CIRCULATION PATH CROSSES THE CURB RAMP, FLARED SIDES SHALL BE INSTALLED WITH A MAXIMUM SLOPE OF 9.5% FOR DESIGN AND LAYOUT, AND 10% MAXIMUM FOR WORK ACCEPTANCE. THE SLOPE OF FLARED SIDES IS MEASURED PARALLEL TO THE CURB LINE.
- WHERE A CHANGE IN DIRECTION IS REQUIRED TO UTILIZE A CURB RAMP, A TURNING SPACE SHALL BE PROVIDED AT THE BASE OR AT THE TOP OF CURB RAMP AS APPLICABLE. TURNING SPACES SHALL BE PERMITTED TO OVERLAP CLEAR SPACES.
- BEYOND THE BOTTOM GRADE BREAK, A CLEAR SPACE OF 4-0" X 4-0" MINIMUM SHALL BE PROVIDED WITHIN THE WIDTH OF THE
 PEDESTRIAN CROSSWALK, AND OUTSIDE THE PARALLEL VEHICLE TRAVEL LANE. THE CLEAR SPACE MAY OVERLAP TURNING SPACES. TECTABLE WARNING SURFACES, AND DROP CURBS.
- TURNING SPACES SHALL NOT BE DESIGNED WITH CROSS SLOPE GREATER THAN 1.5% IN ANY DIRECTION, WHILE PROVIDING POSITIVE DRAINAGE. THE MAXIMUM CROSS SLOPE FOR WORK ACCEPTANCE IS 2.0%. A MONSTANDARD FEATURE JUSTIFICATION IS REQUIRED WHERE TURNING SPACES EXCRED 2.0% IN ANY DIRECTION.
- THE SETAL SPROVIDED ARE NOT DRAWN TO SCALE. THE DUNNITY OF DOMES DEPICED IN THE DETECTABLE WARNING SUPFACE. (DWN) IS FOR LUISTATION ONLY. THE SEQ OF THE DETECTABLE WARNING THE DISHLE LEXT HAMMAIN IN THE DETECTION OF TRAVEL AND SHALL EXTEND THE FULL WOTH OF THE CURB RAMP OR FLUSH SUPFACE. EXCLUDING ANY FLARED SIDES. THE WIDTH OF THE OFFICETABLE WARNING FILED NALUES A CONCRETE BORDER IF PROVIDED.
- 8. ON SLOPES OF 5% OR GREATER, THE ROWS OF DOMES SHALL BE ALIGNED TO BE PERPENDICULAR OR RADIAL TO THE LOWER GRADE BREAK ON THE RAMP RIIN

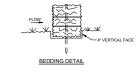
SIDEWALK CURB RAMP DETAIL



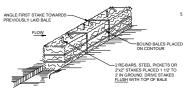
DETAIL NOTES:

- FILTER FABRIC FENCE MUST BE INSTALLED AT EXISTING LEVEL GRADE. BOTH ENDS OF EACH FENCE SECTION MUST BE EXTENDED AT LEAST 8 FEET UPSLOPE AT 45 DEGREES TO THE MAIN FENCE ALIGNMENT.
- 2. SEDIMENT MUST BE REMOVED WHERE ACCUMULATIONS REACH 1/2 THE ABOVE GROUND HEIGHT OF THE FENCE
- 3. ANY FENCE SECTION WHICH HAS BEEN UNDERMINED OR TOPPED MUST BE IMMEDIATELY REPLACED
- 3. STAKES SPACE AT 8 FEET MAXIMUM. USE 2" x 2" WOOD OR EQUIVALENT STEEL STAKES.





DRAINAGE AREA NO MORE THAN 1/4 ACRE PER 100 FEET OF STRAW BALE DIKE FOR SLOPES LESS THAN 25%



BALES SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFULNESS SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.

CONSTRUCTION SPECIFICATIONS: BALES SHALL BE PLACED AT THE TOE OF A SLOPE OR ON THE CONTOUR AND IN A ROW WITH ENDS TIGHTLY ABUTTING THE ADJACENT

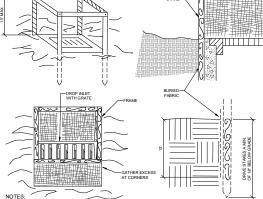
EACH BALE SHALL BE EMBEDDED IN THE SOIL A MINIMUM OF (4) INCHES, AND PLACED SO THE BINDINGS ARE HORIZONTAL.

3. BALES SHALL BE SECURELY ANCHORED IN PLACE BY EITHER TWO STAKES OR RE-BARS DRIVEN THROUGH THE BLAC. THE FIRST STAKE IN EACH BALE SHALL BE DRIVEN TOWARD THE PREVIOUSLY FUAD BALE AT AN ANGLE TO FORCE THE BALES TOGETHER STAKES SHALL BE DRIVEN FLUSH WITH THE BALE.

TYPICAL SILT FENCE DETAIL (TU.16)

NOT TO SCALE

STRAW BALE DIKE DETAIL 2"x4" WOOD FRAME STAKE-



- 1. FABRIC SHALL HAVE AN EOS OF 40-85. BURLAP MAY BE USED FOR SHORT TERM APPLICATIONS.
- CUT FABRIC FROM A CONTINUOUS ROLL TO ELIMINATE JOINTS. IF JOINTS ARE NEEDED THEY WILL BE OVERLAPPED TO THE NEXT STAKE.
- 3. STAKE MATERIALS WILL BE STANDARD 2" x 4" WOOD OR EQUIVALENT METAL WITH A MINIMUM LENGTH OF 3 FEET.
- SPACE STAKES EVENLY AROUND INLET 3 FEET APART AND DRIVE A MINIMUM 18 INCHES DEEP. SPANS GREATER THAN 3 FEET MAY BE BRIDGED WITH THE USE OF WIRE MESH BEHIND THE FILTER FABRIC FOR SUPPORT.
- 5. FABRIC SHALL BE EMBEDDED 1 FOOT MINIMUM BELOW GROUND AND BACKFILLED. IT SHALL BE SECURELY FASTENED TO THE STAKES AND FRAME
- 6. A 2"x4" WOOD FRAME SHALL BE COMPLETED AROUND THE CREST OF THE FABRIC FOR OVER FLOW STABILITY
- 7 MAXIMUM DRAINAGE AREA 1 ACRE

FILTER FABRIC DROP INLET PROTECTION (TU.19)

RECORD DRAWINGS

To the best of our knowledge, information and belief, these record drawings substantially represent the project as constructed.

O'BRIEN & GERE
ENGINEERS, INC.

By:

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DETAILS

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DRAWING IS NOT SCALABLE WHEN NO SCALE BAR IS PRESENT CHARGE OF R. GANLEY SNED BY M. LASELL ECKED BY __C. FIORELLO 1 11/06/2020 RECORD DRAWINGS 0 01/24/2019 ISSUED FOR BID

O'BRIEN & GERE ENGINEERS, INC WEST WASHINGTON ST. SYRACUSE, NY 1322

ONONDAGA COUNTY DEPARTMENT OF WATER ENVIRONMENT PROTECTION GREEN STREETS - CSO-052 SYRACUSE, NEW YORK

JANUARY 2019