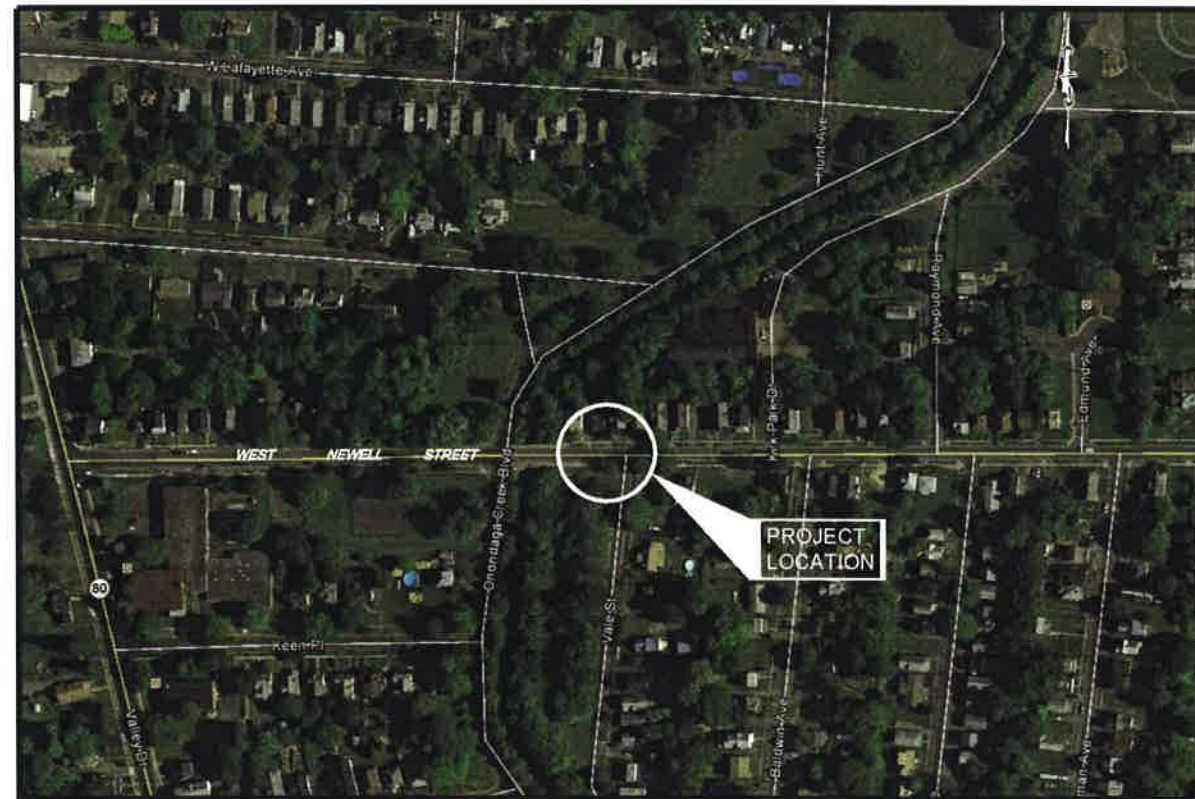


THIS PROJECT UTILIZES THE ONONDAGA COUNTY 2015 ANNUAL GREEN STRUCTURES CONTRACT AT VARIOUS LOCATIONS FOR STANDARD DETAILS.

# CSO 067 GREEN STREETS ONONDAGA COUNTY WATER ENVIRONMENT PROTECTION WEST NEWELL STREET & VALE STREET SYRACUSE, NEW YORK ONONDAGA COUNTY TASK ORDER: 2017-003G



SHEET NO.	TITLE
16144-01	TITLE SHEET
16144-02	NOTES
16144-03	SITE PLAN
16144-04	MANHOLE DETAIL

SPECTRA ENGINEERING, ARCHITECTURE & SURVEYING, P.C.  
307 SOUTH TOWNSEND STREET  
SYRACUSE, NEW YORK 13202  
PHONE (315) 471-2101  
FAX (315) 471-2111  
AUGUST 2016

APPROVED: \_\_\_\_\_  
OCDWEP COMMISSIONER:  
TOM RHOADS  
DATE: \_\_\_\_\_



JOANNE M. MAHONEY  
ONONDAGA COUNTY EXECUTIVE



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DRAWN BY:	MN
CHECKED BY:	CK
APPROVED BY:	CK
CONTOUR INT:	
DATUM:	

**CSO 67 GREEN STREETS  
WEST NEWELL STREET AND VALE STREET  
ONONDAGA COUNTY**

Syracuse, New York

**SPECTRA ENGINEERING, ARCHITECTURE  
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DATE: 8-2-16 SCALE: NO SCALE PROJ. NO. E0316144 SHEET 1 OF 4

THIS PROJECT UTILIZES THE ONONDAGA COUNTY 2015 ANNUAL GREEN STRUCTURES CONTRACT AT VARIOUS LOCATIONS FOR STANDARD DETAILS.

# CSO 067 GREEN STREETS

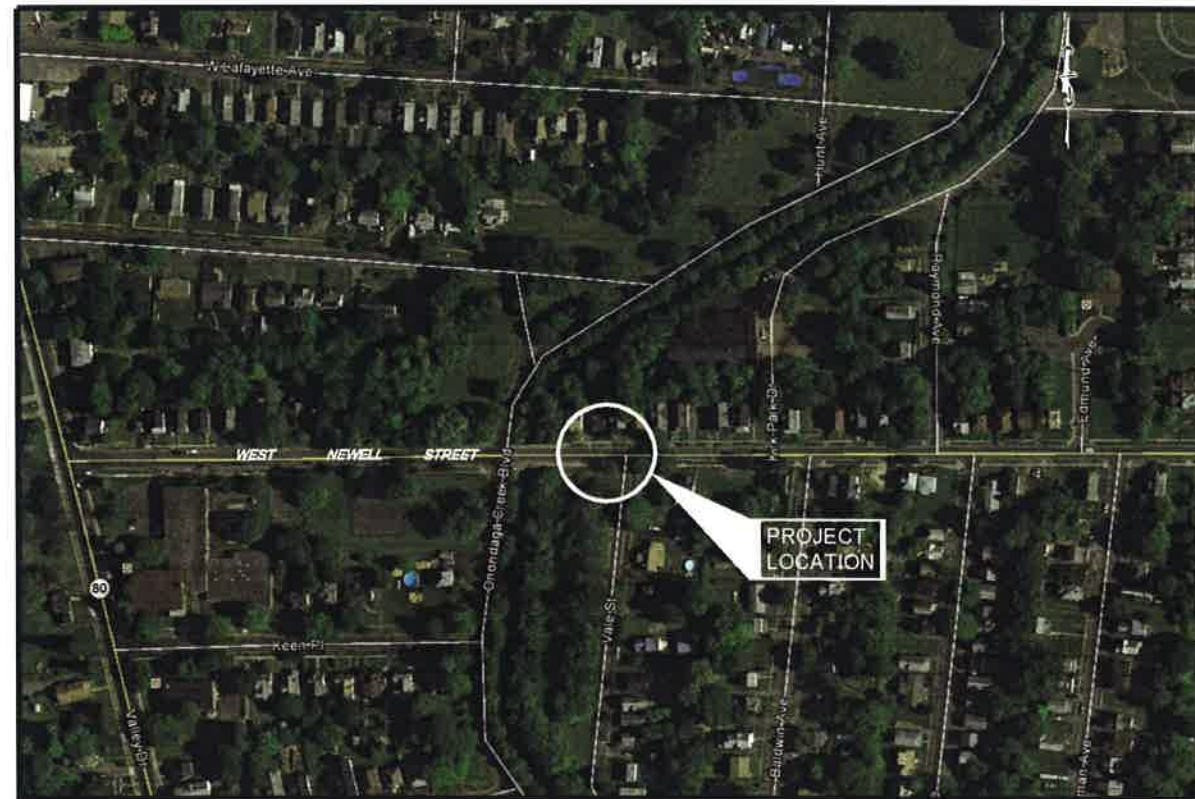
## ONONDAGA COUNTY WATER ENVIRONMENT PROTECTION

### WEST NEWELL STREET & VALE STREET

### SYRACUSE, NEW YORK

### ONONDAGA COUNTY

### TASK ORDER: 2017-003G



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**CSO 67 GREEN STREETS**  
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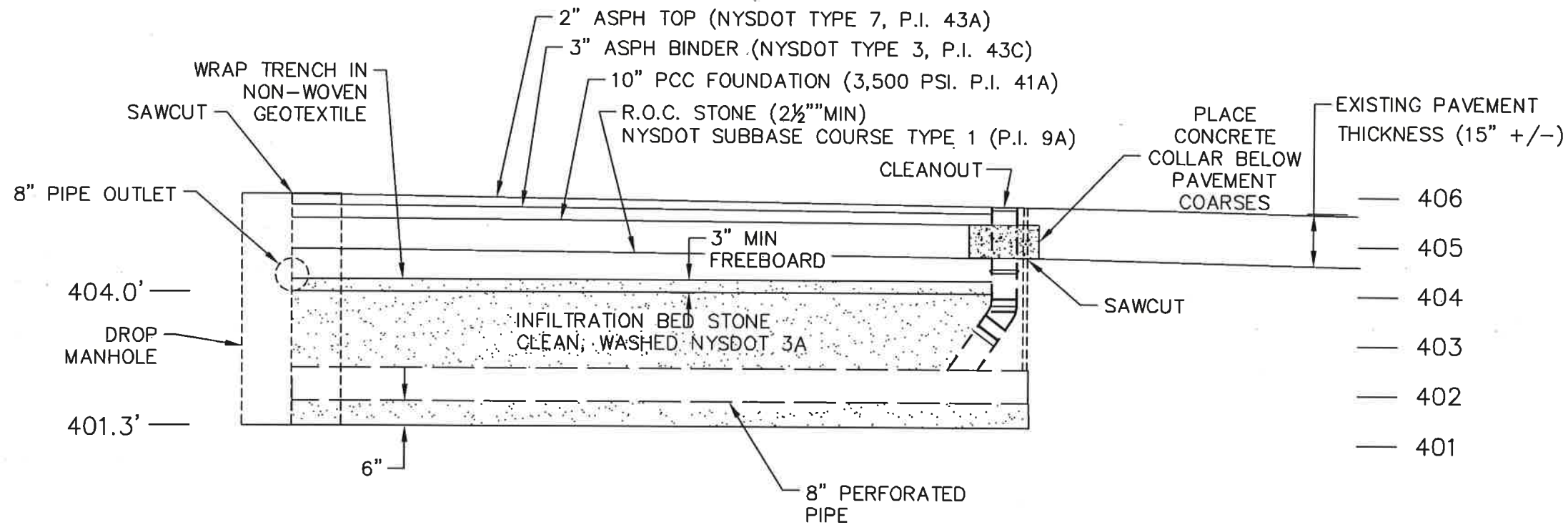
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**GENERAL NOTES:**

1. DESIGN SPECIFICATIONS: ONONDAGA COUNTY GREEN INFRASTRUCTURE TERM CONTRACT SPECIFICATIONS WITH ALL PROVISIONS IN EFFECT AS OF 2015.
2. 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.
3. NO ADDITIONAL PAYMENT WILL BE MADE FOR WORK CALLED FOR BY NOTES ON THE PLANS OR IN THE SPECIFICATIONS UNLESS PAYMENT IS SPECIFICALLY INDICATED BY AN ITEM NUMBER. THE COST OF ANY WORK FOR WHICH NO ITEM NUMBER IS PROVIDED, SHALL BE INCLUDED IN THE UNIT PRICE BID FOR VARIOUS ITEMS IN THE CONTRACT.
4. NOTIFY DIG SAFELY NEW YORK (811) AT LEAST 72 HOURS PRIOR TO CONSTRUCTION.
5. THE CONTRACTOR IS ADVISED TO THE FACT THAT THERE ARE UTILITIES WITHIN THE PROJECT AREA. THEIR 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 HIS OPERATIONS.
6. ADDITIONAL UTILITY LINES, WHETHER ABANDONED OR IN SERVICE, MAY EXIST AND IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CONDUCT HIS OPERATIONS AND TAKE THE NECESSARY PRECAUTIONS TO PREVENT INTERFERENCE WITH, OR DAMAGE TO THESE FACILITIES DURING THE COURSE OF CONSTRUCTION.
7. IN THE EVENT THAT THE CONTRACTOR DAMAGES AN EXISTING UTILITY SERVICE, CAUSING AN INTERRUPTION IN SAID SERVICE, THEY SHALL IMMEDIATELY COMMENCE WORK TO RESTORE SERVICE AND MAY NOT CEASE THIS OPERATION UNTIL THE SERVICE IS RESTORED.
8. PROTECT INFILTRATION BED SUBGRADE FROM SEDIMENT DEPOSITION AND/OR COMPACTION DURING CONSTRUCTION. DO NOT ALLOW CONSTRUCTION VEHICLES TO TREAD ON THE INFILTRATION BED SUBGRADE.
9. CONTRACTOR SHALL FOLLOW INFILTRATION BED, AND DRAINAGE CONTROL REQUIREMENTS AS SPECIFIED.
10. AGGREGATE FOR INFILTRATION BED AND SHALL BE CLEAN-WASHED PRIOR TO PLACEMENT.
11. MAINTAIN LOOSE AND UNDISTURBED STORMWATER INFILTRATION BED SUBGRADE, SCARIFY TOP 6 INCHES, DO NOT ALLOW CONSTRUCTION EQUIPMENT ON TRENCH BOTTOM SURFACE.
12. VERIFY ALL EXISTING UTILITIES AND OTHER IMPROVEMENTS PRIOR TO START OF WORK AND IMMEDIATELY NOTIFY ENGINEER OF POTENTIAL CONFLICTS WITH PROPOSED WORK.
13. CONTRACTOR SHALL NOTIFY CITY OF SYRACUSE DEPARTMENT OF WATER AT LEAST 24 HOURS IN ADVANCE OF STARTING ANY WORK.
14. AT CLOSE OF PROJECT, CONTRACTOR SHALL VERIFY INVERT ELEVATIONS OF ALL STRUCTURES USING A NYS LICENSED SURVEYOR. INVERT ELEVATIONS SHALL BE PROVIDED ON RECORD DRAWINGS.
15. CONTRACTOR SHALL MAINTAIN ACCESS TO DRIVEWAYS AND PEDESTRIAN ACCESS AT ALL TIMES.
16. CLEANING STRUCTURES - AT THE CLOSE OF PROJECT, THE CONTRACTOR SHALL VACUUM CLEAN ALL STRUCTURES (NEW AND EXISTING) CONNECTED TO WITHIN THE PROJECT SCOPE.
17. IF ANY PAVEMENT DISTURBANCE ACCURS WITHIN 2 FEET OF THE EDGE/CURBS, PAVEMENT RECONSTRUCTION MUST BE COMPLETED TO THE EDGE/CURB.
18. EXISTING PAVEMENT IS TO BE SAWCUT FULL DEPTH TO OBTAIN A STRAIGHT AND NEAT EDGE FOR PAVNG. SAWCUT IS TO BE MADE AFTER BACKFILLING THE TRENCH TO THE BOTTOM OF NEW PAVEMENT SECTION.



SECTION A-A



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CSO 067 GREEN STREETS  
WEST NEWELL STREET & VALE STREET  
ONONDAGA COUNTY

Syracuse New York

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DATE: 8/12/18 SCALE: AS SHOWN PROJ. NO. #0316144 SHEET 2 OF 4



NOTE: 2.5' DIMENSION IS FROM FRONT FACE OF CURB

GAS LINE TO BE RETIRED BY NATIONAL GRID PRIOR TO OR IN CONJUNCTION W/ PROJECT. TO BE COORDINATED BY ONONDAGA COUNTY

DRAINAGE AREA

19 FT.+/- 8" SOLID HDPE PIPE, SLOPE @ 3% +/- SEE DETAIL DR.13

DEPTH OF WATER SERVICE UNKNOWN. IF ENCOUNTERED DURING CONSTRUCTION, SERVICE SHALL BE REPLACED, SEE DETAIL TU.01, TYPICAL ALL WATER SERVICES ENCOUNTERED

CONNECT TO EXISTING CATCH BASIN (TYP.) SEE DETAIL DR.17, INSTALL BAG STYLE FILTER INSERT  
CB-304 RIM EL= 405.40  
SUMP EL= 401.30  
NEW OUTLET PIPE INVERT EL= 402.4  
PLUG EX. SEWER LATERAL W/ MECHANICAL PLUG & CONCRETE

95+/- LF OF 8" PERFORATED HDPE PIPE, INVT= 401.8+/-

OVERFLOW MANHOLE SEE "OVERFLOW MANHOLE" SEWER DETAIL.

CONNECT TO EX. MH#247 (TYP.) NEW PIPE INVERT EL.=402.7 SEE DETAIL DR.17. INSTALL DROP CONNECTION IN MANHOLE WITH E.O.P. ELEV.= 398+/-

9.0 FT.+/- 8" SOLID HDPE PIPE 2.0%

26 FT.+/- 8" SOLID HDPE PIPE, SLOPE @ 2.7% +/-, SEE DETAIL DR.13

CONNECT TO EXISTING CATCH BASIN (TYP.) SEE DETAIL DR.17, INSTALL BAG STYLE FILTER INSERT  
CB-311 RIM EL= 405.50  
SUMP EL= 399.94  
NEW OUTLET PIPE INVERT EL= 402.5+/-  
PLUG EX. SEWER LATERAL W/ MECHANICAL PLUG & CONCRETE

DRAINAGE AREA

INFILTRATION TRENCH BASIN 102+/- LF LONG, 5' WIDE LEVEL BED BOTTOM EL.=401.3 SEE CROSS SECTION A-A'

21.5 FT.+/- 8" SOLID HDPE PIPE, SLOPE @ 2.3% +/-, SEE DETAIL DR.13

GAS LINE TO BE REPLACED WITH PVC ALONG LIMITS OF PROJECT BY NATIONAL GRID PRIOR TO OR IN CONJUNCTION W/ PROJECT. TO BE COORDINATED BY ONONDAGA COUNTY

DRAINAGE AREA

CONNECT TO EXISTING CATCH BASIN (TYP.) SEE DETAIL DR.17. INSTALL BAG STYLE FILTER INSERT  
CB-313 RIM EL= 405.38  
SUMP EL= 400.2+/-  
NEW OUTLET PIPE INVERT EL= 402.3  
PLUG EX. SEWER LATERAL W/ MECHANICAL PLUG & CONCRETE

NOTE: 4' DIMENSION IS FROM CENTERLINE OF 24" COMBINED SEWER

**SITE PLAN**  
SCALE: 1"=10'-0"



**Table 1: CSO 067 Green Streets Infiltration Trench Stormwater Retention Calculations**

Trench Area	510 sq ft
Trench Stone Height	2.7 ft
Total Impervious Contributing Area	5,182 sq ft
Infiltration Rate	1.11 in/hr
<b>Stormwater Mitigation:</b>	
Design Event	1.25 in
Runoff Volume Design Event	540 cu ft
Infiltration Basin Porosity	40%
Time to dewater design event	11.4 hrs
Maximum stormwater retention:	551 cu ft
Annual Runoff Reduction	91,492 gal

Notes:  
Infiltration measured on June 8, 2016 by Spectra and NSE.



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CSO 067 GREEN STREETS  
WEST NEWELL STREET & VALE STREET  
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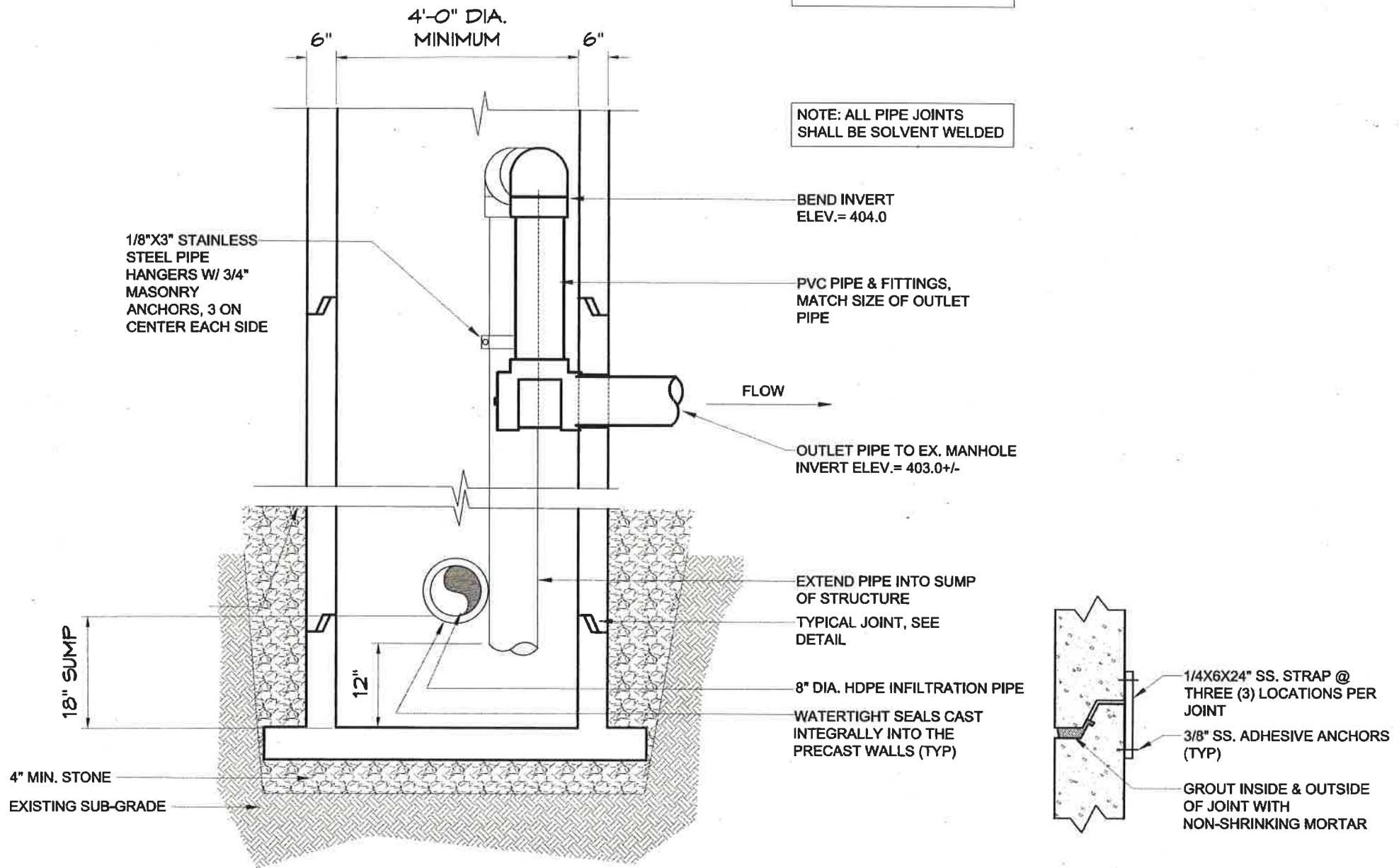
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NOTE: REFER TO STANDARD  
DETAIL DR.07 FOR MANHOLE  
CONSTRUCTION INC. FRAME  
& GRATE INFORMATION

NOTE: ALL PIPE JOINTS  
SHALL BE SOLVENT WELDED



**OVERFLOW MANHOLE DETAIL**

TYPICAL JOINT DETAIL



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