PROPOSED
STATION ROAD CULVERT REPLACEMENT PROJECT

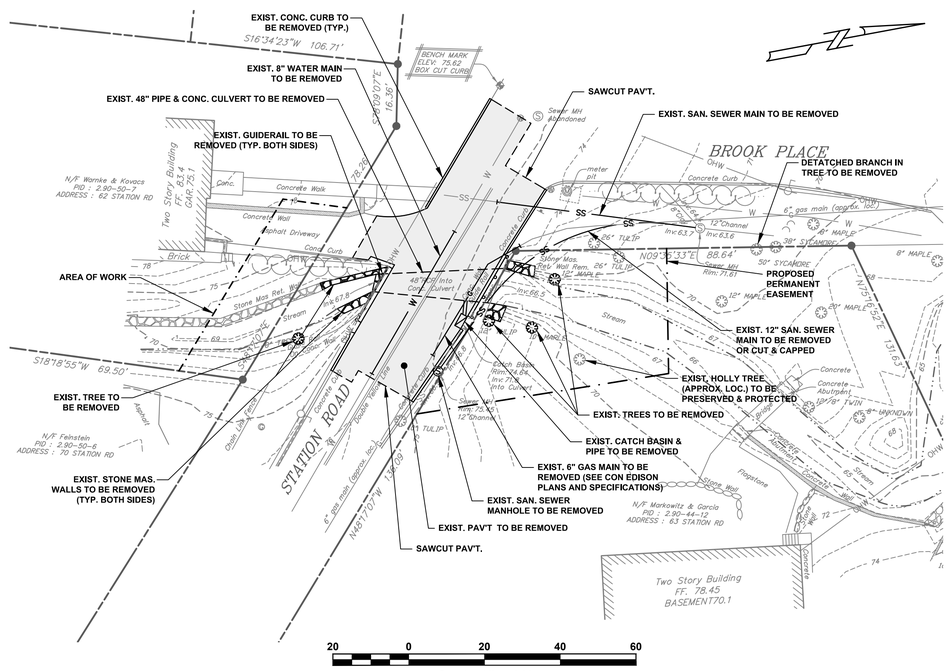
VILLAGE OF IRVINGTON, WESTCHESTER COUNTY, NY

GENERAL NOTES

1. All work and materials shall be in accordance with these plans, specifications, any revisions thereto, and the rules and regulations of the Village of Irvington.
2. The subsurface information shown hereon is not guaranteed as to accuracy or completeness. The Contractor shall verify the location of all existing utility lines whether in public right–of–way, in easements, or in private property prior to starting any excavation and shall be responsible for the same. The Contractor shall be responsible for contacting the Underground Facilities Protective Organization, pursuant to N.Y.S. Law, 16 NYCRR Code 753.
3. The Contractor shall be responsible for the relocation of any utility service line or valve which is in interference with the proposed work.
4. Existing trees shall be preserved and protected wherever possible and shall only be removed with the approval of the Engineer. Tree roots shall be avoided wherever possible. Where tree roots cannot be avoided, they shall be cut cleanly. Tree roots shall be kept moist while trenches are open.
5. The Contractor shall verify all existing and proposed elevations in the field.
6. The maintenance and protection of traffic schemes, both pedestrian and vehicular, shall be the responsibility of the Contractor. Access to all commercial, institutional and residential parking facilities shall be maintained at all times. A safe means of pedestrian access to and from all points within the contract limit shall be provided. The Contractor must submit traffic maintenance and staging schemes in writing to the Engineer for approval. All traffic maintenance devices including but not limited to temporary signs, barricades, steel plates, lights and warning signals, shall be constructed and displayed in accordance with the rules and regulations of the Village of Irvington and the Federal MUTCD.
7. The Contractor shall provide the Engineer with a telephone number of the person responsible in the case of an emergency, 24 hours a day, 7 days a week.
8. All damage to public or private facilities caused by the Contractor's operation shall be repaired to the satisfaction of the Owner at the Contractor's expense.
9. The Contractor shall submit shop drawings for all highway works to the Engineer. No construction shall be allowed until the shop drawings are approved.
10. The Contractor shall comply with O.S.H.A. Standard 29 CFR – Part 1926.650, .651 and .652 for all excavations.
11. Refuse from demolition shall become the property of the Contractor. It shall be the Contractor's responsibility to dispose of all construction refuse legally.
12. All drainage pipes shall be smooth–interior high density polyethylene corrugated pipe unless noted otherwise. Other types of drainage pipes may be used if so approved by the Engineer under special conditions.
13. Any existing pipes which are not shown on these plans which are currently discharging into existing storm drainage facilities designated for removal shall be reconnected to new drainage structures.
14. The Contractor shall prevent the formation of any low spots where water can collect and the redirection of runoff onto private property and shall take whatever corrective measures are necessary. The Contractor is responsible, at no cost to the Owner, to correct any deleterious water ponding areas.
15. Existing valves and manhole covers to remain shall be adjusted to finished grades where required.
16. Existing pavement shall be sawcut in a straight line where it is to be bounded by new pavement.
17. The pavement and subbase thicknesses noted on these plans are after compaction.
18. Fill material shall be free from organic matter, loam and frozen material. Soft or spongy areas after compaction shall be removed, the pocket drained and refilled with select material.
19. All existing site features (including but not limited to: pavement, curbing, grass, landscaping, piping, utility lines, signs, walls, fencing, and structures) disturbed or damaged by construction shall be restored by the Contractor to a condition equal to or better than those currently existing and as directed by the Engineer.
20. Disturbed grass or earth areas shall be provided with 4 inches minimum of topsoil and seeded or sodded as described in the specifications.

EROSION CONTROL NOTES

1. Silt fencing shall be installed downslope of disturbed work areas and shall remain in place until all disturbed areas are thoroughly stabilized
2. Final grades shall be established as quickly as possible and topsoiled and seeded to provide a turf which will stabilize slopes and prevent erosion.
3. Slopes to remain open during construction shall be protected with mulch and staked tobacco netting.
4. Catch basins and drain inlets shall be protected as detailed on the plans throughout the construction period and until all disturbed areas are thoroughly stabilized.
5. Soil stockpiles shall not be allowed on steep slopes, in drainage swales or in wetland areas. Soil stockpiles shall be surrounded with staked silt fencing and seeded.
6. Erosion control measures shall be inspected after each rainfall and shall be cleaned, repaired or replaced as required.
7. The Village's wetland consultant, engineer, or a N.Y.S.D.E.C. field representative may require additional erosion control measures if deemed appropriate to mitigate unforeseen siltation and erosion of disturbed soils.



Scale 1" = 20'

EXISTING CONDITIONS & DEMOLITION PLAN

LOCATION MAP

SCALE: 1" = 500'

LEGEND

- EXIST. PROPERTY LINE
- EXIST. CONTOUR LINE
- EXIST. SANITARY SEWER MAIN
- EXIST. SANITARY MANHOLE
- EXIST. WATER MAIN
- EXIST. WATER VALVE
- EXIST. WATER METER
- EXIST. GAS MAIN
- EXIST. GAS VALVE
- EXIST. OVERHEAD WIRE(S)
- EXIST. UTILITLY POLE
- EXIST. GUIDERAIL
- EXIST. CATCH BASIN
- EXIST. SIGN

DRAWING INDEX

SHEET NO.	DRAWING NO.	TITLE
1	C-1	EXISTING CONDITIONS & DEMOLITION PLAN, NOTES
2	C-2	SITE PLAN & PROFILES
3	C-3	CULVERT DETAILS
4	C-4	SITE DETAILS

REV.	DATE	DESCRIPTION
3	10/25/16	ISSUED FOR BID
2	10/17/13	ADDITIONAL PAV'T. & CURB, TREE
1	4/3/13	MISC.

TITLE: EXISTING CONDITIONS & DEMOLITION PLAN, NOTES

PROJECT: PROPOSED STATION ROAD CULVERT REPLACEMENT PROJECT

VILLAGE OF IRVINGTON, WESTCHESTER COUNTY, NEW YORK

UNAUTHORIZED ALTERATIONS OR ADDITIONS TO THIS DRAWING IS A VIOLATION OF SECTION 7209 (2) OF THE NEW YORK STATE EDUCATION LAW. THIS PLAN IS NULL AND VOID FOR CONSTRUCTION PURPOSES WITHOUT THE SIGNATURE AND SEAL OF THE DESIGN ENGINEER.

JAMES J. HAHN ENGINEERING, P.C.
Putnam Business Park
1689 Route 22
Brewster, New York 10509
Tel: (845) 279-2220

SCALE: 1" = 20' | DATE: 10/5/12 | DRAWING NO. C-1 | SHEET NO. 1 OF 4

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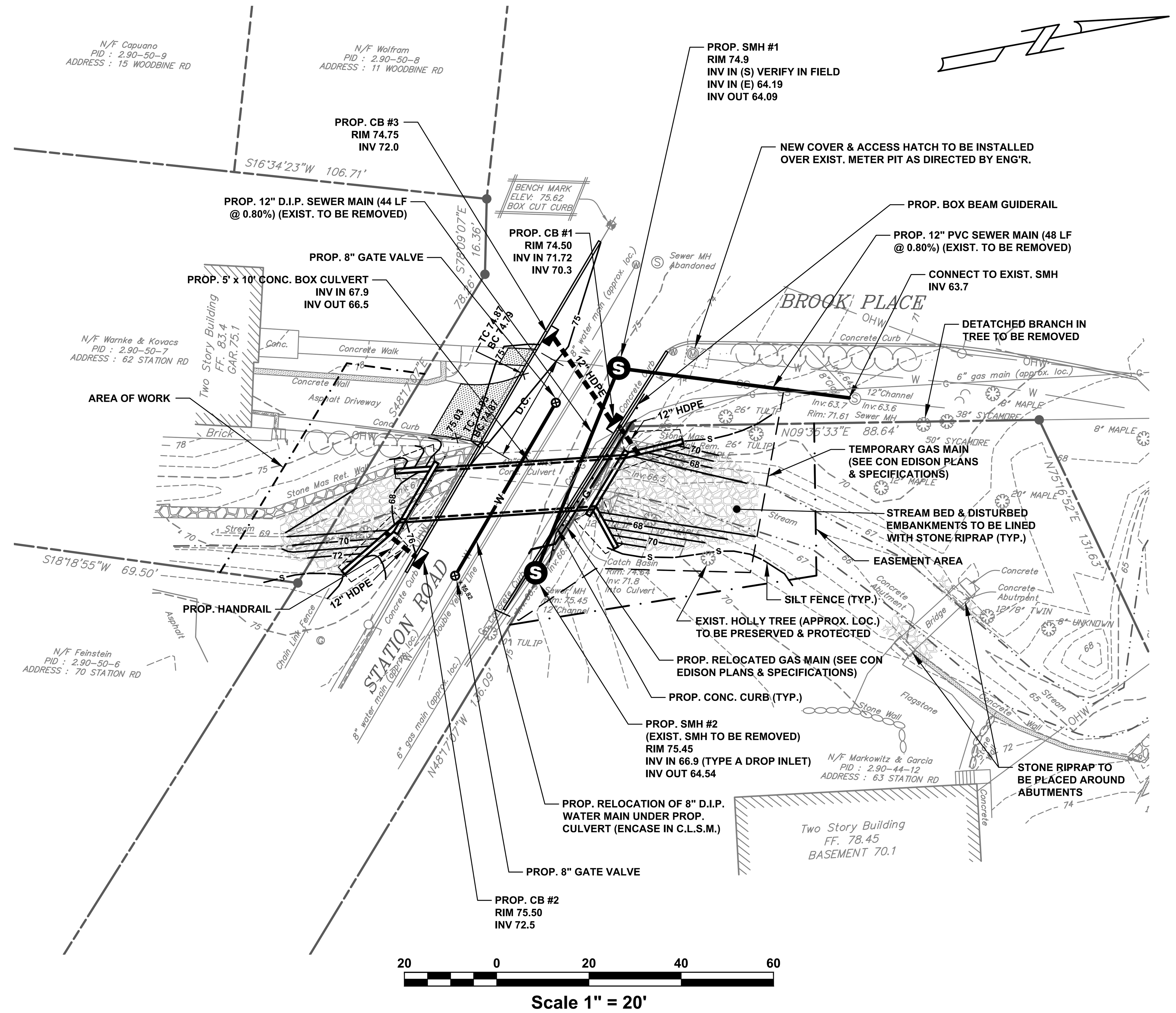
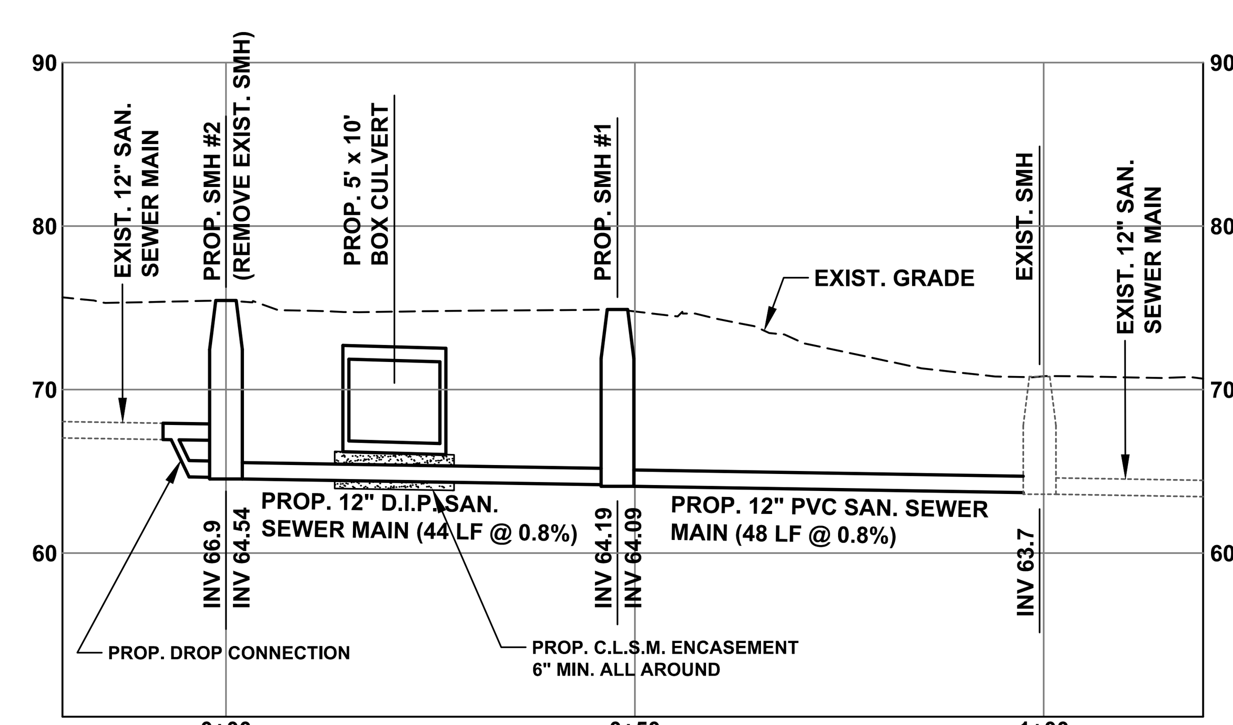
WATER MAIN NOTES

1. All work and materials shall be in accordance with the rules and regulations of the Village of Irvington, the Westchester County Department of Health and the New York State Department of Health.
2. Only details relevant to the specific public water supply improvements shown hereon are applicable to the water supply permit issued by the Westchester County Department of Health for this project.
3. Village forces shall perform all water main shutdowns and reopenings necessary for the proposed work.
4. The duration of water main shutdowns shall be less than 4 hours. The Contractor shall notify the Engineer and Village of Irvington Water Department if water main shutdowns greater than 4 hours will be required.
5. All newly installed water main, prior to being placed in service, shall be successfully pressure and leakage tested in accordance with the latest edition of A.W.W.A. Specification Section C−600. The Westchester County Department of Health shall be notified 48 hours in advance of the water main pressure test.
6. All newly installed water main, prior to being placed in service, shall be disinfected and successfully tested in accordance with the latest edition of A.W.W.A. Specification Section C−651−05 except Section 4.4.2. Microbiological testing shall include results for E. coli, total coliform and heterotrophic plate count. The microbiological test results shall be forwarded to and approved by the Westchester County Department of Health as part of the Certification of Construction prior to placing the water mains in service.
7. Water mains shall have a minimum ground cover of four feet.
8. New water main shall be cement−lined ductile iron pipe (class 54) with gasketed bell and spigot joints.
9. Gate valves shall be resilient wedge type (Mueller A−2360 or approved equal).
10. Fittings, tees and crosses shall be ductile iron (class 350).
11. Deflection of the water main joints shall not exceed 50 percent of the maximum deflection recommended by the manufacturer or as ordered by the Engineer.
12. Gate valves with mechanical joints and retainer glands shall be rodded to adjacent tees or crosses. Tie rods may be eliminated if flanged valve/fitting assemblies are used. Gate valves shall be rodded to adjacent water main with split clamps.
13. The Contractor shall submit to the Engineer, shop drawings of curb valves, corporation stops, gates valves, valve boxes, split clamps, couplings, fire hydrants and pipe materials for approval prior to construction.
14. All vertical and horizontal water main bends, tees and plugs/end caps, require concrete thrust blocks. See schedule on drawings.
15. The Contractor shall provide the Engineer with "as−built" drawings of the completed work, prepared as described in the Specifications.
16. Wherever storm/sanitary sewer pipe crosses the water main with a vertical separation of less than 18 inches, the water main shall be encased in controlled low−strength material (CLSM), 6 inches minimum all around, for a minimum horizontal distance of 10 feet from any part of the storm/sanitary sewer pipe. (Note: CLSM is identified as Dense Fill in the specifications).



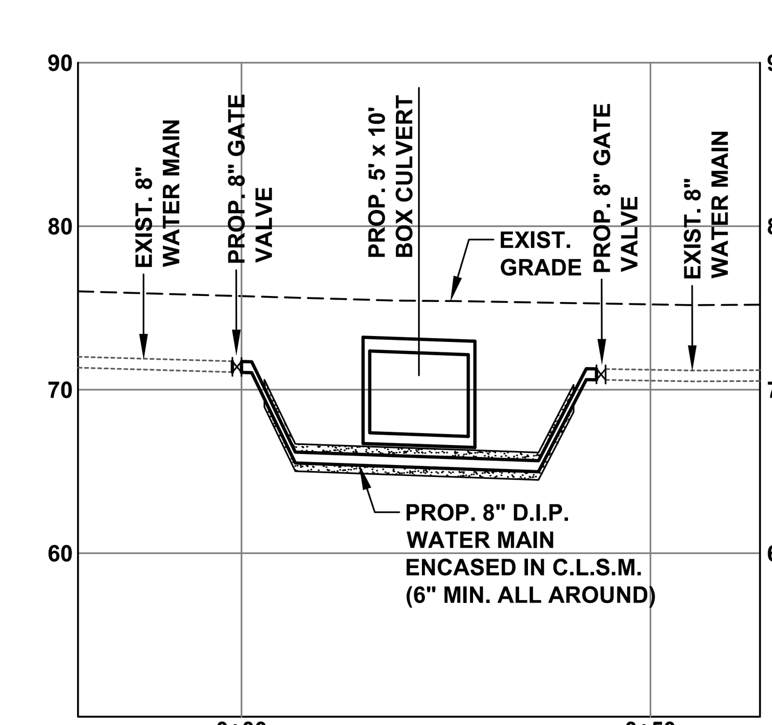
LEGEND

	EXIST. PROPERTY LINE
70	EXIST. CONTOUR LINE
SS	EXIST. SANITARY SEWER MAIN
	EXIST. SANITARY MANHOLE
W	EXIST. WATER MAIN
	EXIST. WATER VALVE
	EXIST. WATER METER
G	EXIST. GAS MAIN
	EXIST. GAS VALVE
OHW	EXIST. OVERHEAD WIRE(S)
	EXIST. UTILITLY POLE
	EXIST. GUIDERAIL
	EXIST. CATCH BASIN
	EXIST. SIGN
	PROP. PERMANENT EASEMENT
	PROP. SANITARY SEWER MAIN
S	PROP. SANITARY MANHOLE
W	PROP. WATER MAIN
G	PROP. GAS MAIN
	PROP. CATCH BASIN
	PROP. STORM PIPE
	PROP. GUIDERAIL
70	PROP. CONTOUR LINE
	PROP. CONC. CURB
D.C.	PROP. DROP CURB
S	TEMPORARY SILT FENCE



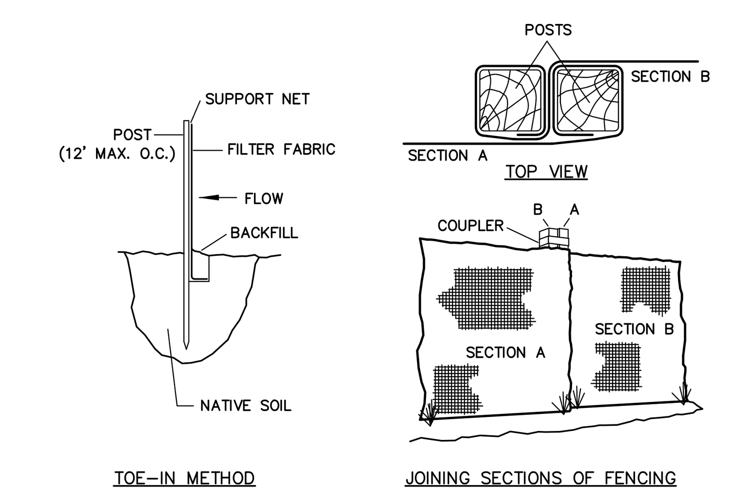
SANITARY SEWER MAIN PROFILE

SCALE: HOR. 1" = 20'
VER. 1" = 10'



WATER MAIN PROFILE

SCALE: HOR. 1" = 20'
VER. 1" = 10'



INSTALLATION NOTES

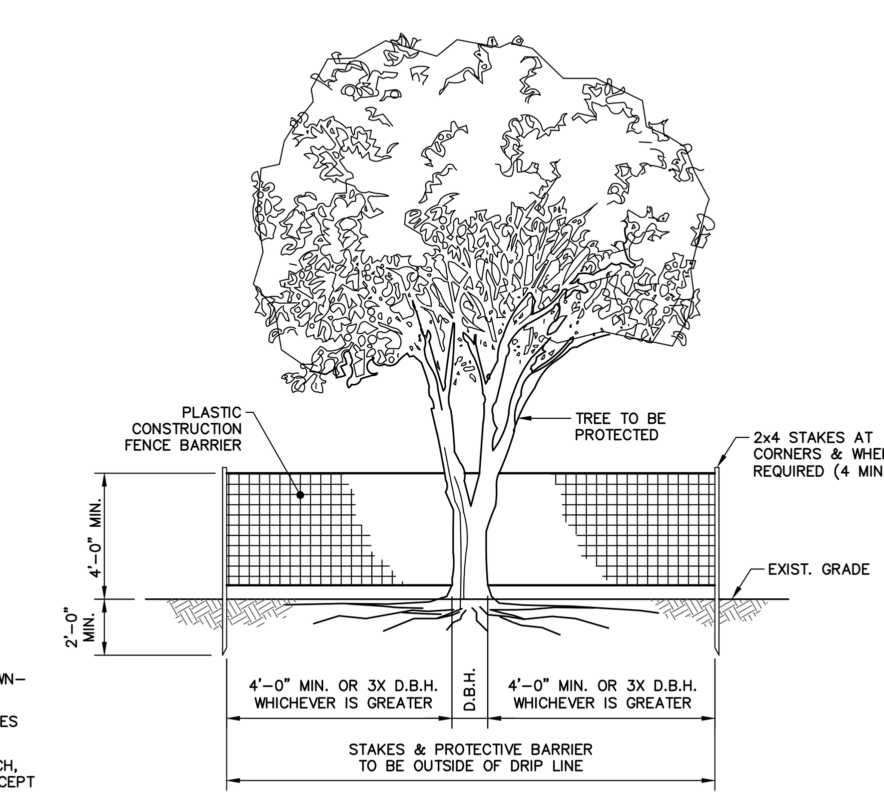
1. EXCAVATE A 4"W x 6"D TRENCH ALONG THE LOWER PERIMETER OF THE SITE.
2. UNROLL A SECTION AT A TIME AND POSITION THE POSTS AGAINST THE BACK (DOWN−STREAM) WALL OF THE TRENCH (NET SIDE AWAY FROM THE DIRECTION OF FLOW).
3. DRIVE THE POST INTO THE GROUND UNTIL THE NETTING IS APPROXIMATELY 2 INCHES FROM THE TRENCH BOTTOM.
4. LAY THE TOE−IN FLAP OF FABRIC ONTO THE UNDISTURBED BOTTOM OF THE TRENCH, BACKFILL THE TRENCH AND TAMP THE SOIL. STEEPER SLOPES REQUIRE AN INTERCEPT TRENCH.
5. JOIN SECTIONS AS SHOWN ABOVE.

SILT FENCE

N.T.S.

NOTES

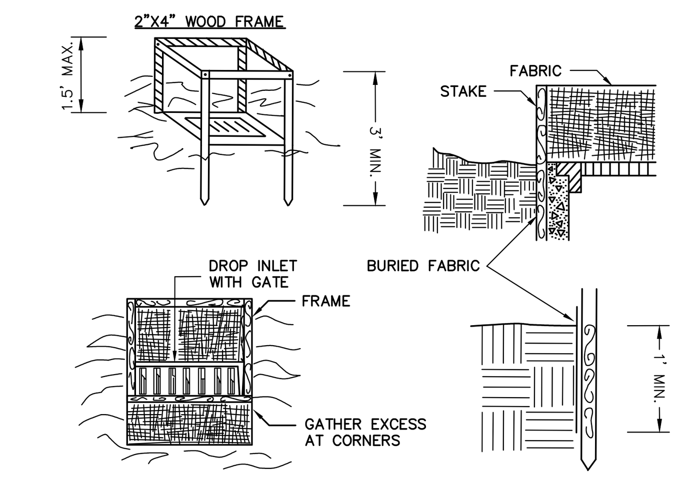
1. PROTECTIVE BARRIER SHALL BE INSTALLED PRIOR TO THE START OF SITE WORK.
2. PROVIDE ADDITIONAL STAKES AS REQUIRED TO ENSURE THAT THE PROTECTIVE BARRIER IS OUTSIDE OF THE TREE'S DRIP LINE AND TO MINIMIZE ITS AREA.
3. NO STORAGE OF MATERIALS SHALL BE PERMITTED INSIDE OF THE PROTECTIVE BARRIER.
4. FOR TREES OUTSIDE OF THE LIMIT OF DISTURBANCE, PROTECTIVE BARRIERS SHALL BE PLACED ONLY ON THE SIDE OF THE TREE THAT FACES THE CONSTRUCTION SITE.



SECTION

TREE PROTECTION

N.T.S.



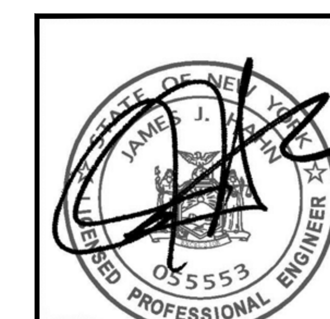
MAXIMUM DRAINAGE AREA 1 ACRE

CONSTRUCTION SPECIFICATIONS

1. FILTER FABRIC SHALL HAVE AN EOS OF 40−85. BURLAP MAY BE USED FOR SHORT TERM APPLICATIONS.
2. CUT FABRIC FROM A CONTINUOUS ROLL TO ELIMINATE JOINTS. IF JOINTS ARE NEEDED THEY SHALL BE OVERLAPPED TO THE NEXT STAKE.
3. STAKE MATERIALS SHALL BE STANDARD 2x4 WOOD OR EQUIVALENT. METAL WITH A MINIMUM LENGTH OF 3 FEET.
4. 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" x 4" WOOD FRAME SHALL BE COMPLETED AROUND THE CREST OF THE FABRIC FOR OVERFLOW STABILITY.

FILTER FABRIC DROP INLET PROTECTION

N.T.S.



REV.	DATE	DESCRIPTION
5	10/25/16	ISSUED FOR BID
4	6/13/16	TEMPORARY GAS MAIN
3	10/17/13	ADD CB# 3
2	4/3/13	MISC.
1	2/5/13	PER W.C.D.O.H.

TITLE: SITE PLAN & PROFILES

PROJECT: PROPOSED STATION ROAD CULVERT REPLACEMENT PROJECT

VILLAGE OF IRVINGTON, WESTCHESTER COUNTY, NEW YORK

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Tel: (845) 279-2220

SCALE	DATE
AS NOTED	10/5/12
DRAWING NO.	SHEET NO.
C-2	2 OF 4

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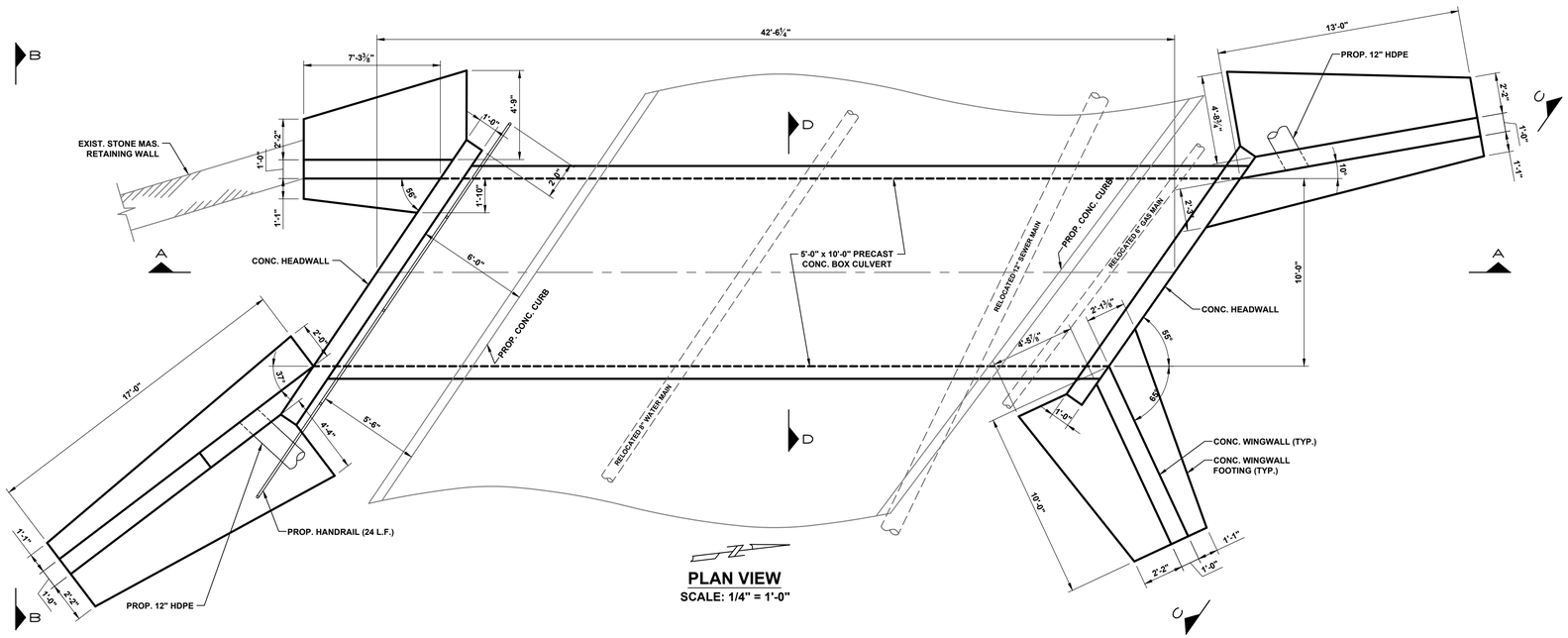
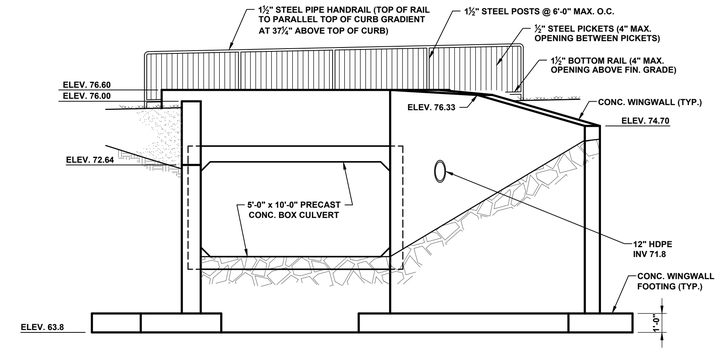
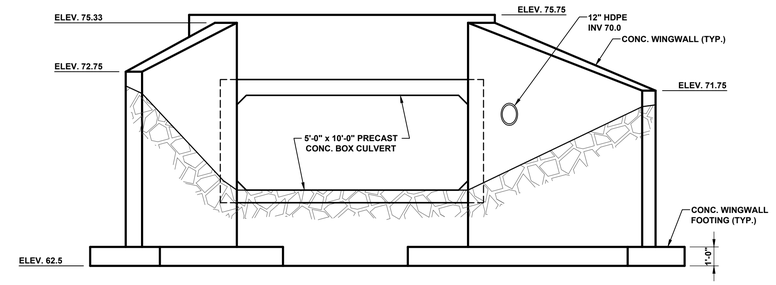


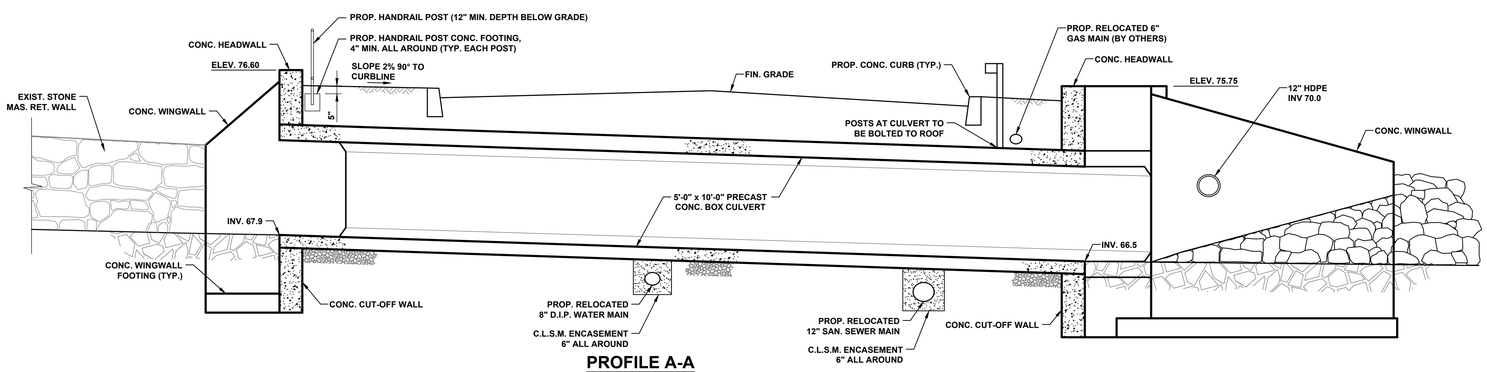
PLAN VIEW
SCALE: 1/4" = 1'-0"



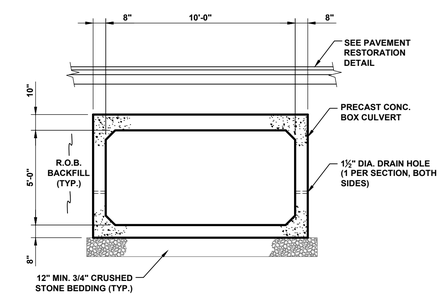
UPSTREAM ELEVATION B-B
SCALE: 1/4" = 1'-0"



DOWNSTREAM ELEVATION C-C
SCALE: 1/4" = 1'-0"



PROFILE A-A
SCALE: 1/4" = 1'-0"



SECTION D-D
SCALE: 1/4" = 1'-0"

NOTES:

1. SHOP DRAWINGS OF THE CULVERT, HEADWALLS, WINGWALLS, AND FOOTINGS, INCLUDING STEEL REINFORCEMENT, SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO CONSTRUCTION.
2. THE CONCRETE BOX CULVERT SHALL BE CAPABLE OF SUPPORTING H-20 LOADING.
3. HEADWALLS, WINGWALLS, AND FOOTINGS SHALL BE REINFORCED TO COMPLY WITH THE REQUIREMENTS OF THE NEW YORK STATE BUILDING CODE AND CHAPTER 14 OF THE "MANUAL OF STANDARD PRACTICE" PUBLISHED BY THE CONCRETE REINFORCING STEEL INSTITUTE.
4. STEEL REINFORCEMENT SHALL BE EPOXY-COATED BARS.
5. PROVIDE A 1 INCH CHAMFER ON ALL EXPOSED CORNERS.

CONCRETE BOX CULVERT DETAIL

REV.	DATE	DESCRIPTION
3	10/25/16	ISSUED FOR BID
2	4/3/13	MISC.
1	2/5/13	NOTES

TITLE: CULVERT DETAILS

PROJECT:
PROPOSED
STATION ROAD
CULVERT REPLACEMENT PROJECT
VILLAGE OF IRVINGTON, WESTCHESTER COUNTY, NEW YORK

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SCALE: AS NOTED
DATE: 10/5/12
DRAWING NO.: C-3
SHEET NO.: 3 OF 4

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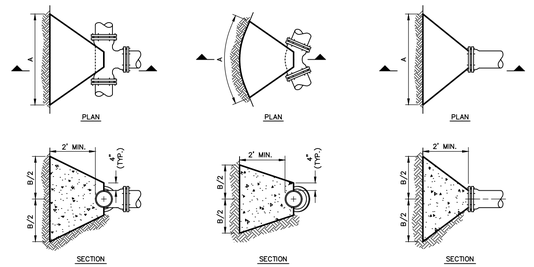
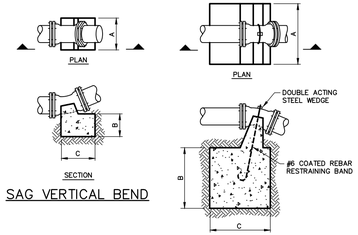
NOTE:
ALL THRUST BLOCKS TO BE POURED AGAINST UNDISTURBED EARTH.



TEE | HORIZONTAL BEND | PLUG/CAP



SAG VERTICAL BEND

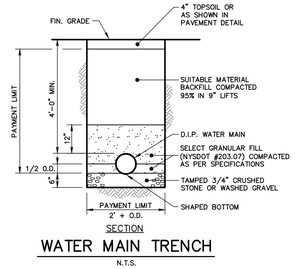
CREST VERTICAL BEND

THRUST BLOCKS
N.T.S.

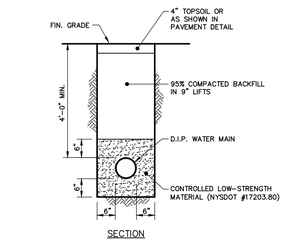
THRUST BLOCK DIMENSIONS SCHEDULE FOR 10" AND 12" WATER MAINS

FITTING	A	B	C	C.Y.
45° (HORIZ.)	5'-0"	4'-8"	–	1.00
22 1/2° (HORIZ.)	4'-0"	3'-0"	–	0.50
11 1/4° (HORIZ.)	3'-0"	2'-3"	–	0.33
TEE	5'-8"	5'-0"	–	1.33
PLUG/CAP	5'-8"	5'-0"	–	1.25
45° (SAG)	2'-0"	1'-6"	3'-0"	3.33
22 1/2° (SAG)	1'-6"	1'-0"	2'-4"	3.00
11 1/4° (SAG)				*
45° (CREST)	5'-0"	4'-0"	4'-0"	3.00
22 1/2° (CREST)	3'-6"	3'-6"	3'-4"	1.50
11 1/4° (CREST)	2'-10"	2'-10"	2'-10"	0.84

* BEND TO BE SET AGAINST UNDISTURBED EARTH, BACKFILL TO BE FIRMLY TAMPED, OR BLOCK TO BE FURNISHED AS DIRECTED BY ENGINEER.

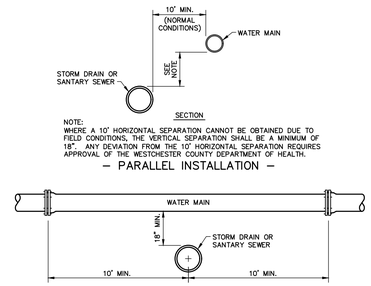


WATER MAIN TRENCH
N.T.S.



NOTE:
WHEREVER STORM/SANITARY SEWER PIPE CROSSES THE WATER MAIN WITH A VERTICAL SEPARATION OF LESS THAN 18 INCHES, THE WATER MAIN SHALL BE ENCASED IN CONTROLLED LOW-STRENGTH MATERIAL, 6" MINIMUM ALL AROUND, FOR A MINIMUM HORIZONTAL DISTANCE OF 10 FEET FROM ANY PART OF THE STORM/SANITARY SEWER PIPE.

WATER MAIN TRENCH W/ C.L.S.M. ENCASEMENT
N.T.S.

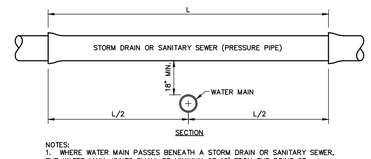


NOTE:
WHERE A 10' HORIZONTAL SEPARATION CANNOT BE OBTAINED DUE TO FIELD CONDITIONS, THE VERTICAL SEPARATION SHALL BE A MINIMUM OF 18". ANY DEVIATION FROM THE 10' HORIZONTAL SEPARATION REQUIRES APPROVAL OF THE WESTCHESTER COUNTY DEPARTMENT OF HEALTH.

NOTES:
1. FOR ANY CONDITIONS OTHER THAN THOSE SHOWN ABOVE, THE FOLLOWING REQUIREMENTS SHALL BE MET: THE JOINTS OF THE SANITARY SEWER OR STORM DRAIN SHALL BE A MINIMUM OF 10' FROM THE POINT OF CROSSING AND THE SANITARY SEWER SHALL BE CLASS 150 PRESSURE PIPE AND THE STORM DRAIN SHALL BE LOCK-JOINT PRESSURE PIPE.

2. ANY DEVIATION FROM THE 18 INCH MINIMUM VERTICAL SEPARATION REQUIRES APPROVAL FROM THE WESTCHESTER COUNTY DEPARTMENT OF HEALTH.

– WATER MAIN CROSSING OVER STORM DRAIN OR SANITARY SEWER –

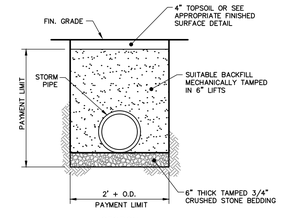


NOTES:
1. WHERE WATER MAIN PASSES BENEATH A STORM DRAIN OR SANITARY SEWER, THE WATER MAIN JOINTS SHALL BE MINIMUM OF 10' FROM THE POINT OF CROSSING AND THE SANITARY SEWER SHALL BE CLASS 150 PRESSURE PIPE AND THE STORM DRAIN SHALL BE LOCK-JOINT PRESSURE PIPE.

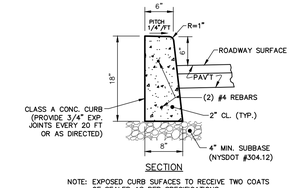
2. ANY DEVIATION FROM THE 18 INCH MINIMUM VERTICAL SEPARATION REQUIRES APPROVAL FROM THE WESTCHESTER COUNTY DEPARTMENT OF HEALTH.

– WATER MAIN CROSSING UNDER STORM DRAIN OR SANITARY SEWER –

WATER MAIN SEPARATION REQUIREMENTS
N.T.S.

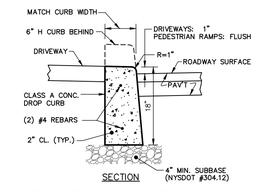


STORM DRAIN TRENCH
N.T.S.



NOTE: EXPOSED CURB SUFACES TO RECEIVE TWO COATS OF SEALER AS PER SPECIFICATIONS.

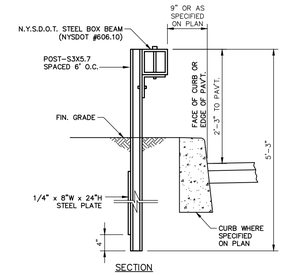
CONCRETE CURB
N.T.S.



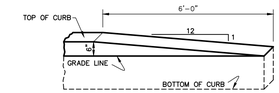
NOTE: EXPOSED CURB SUFACES TO RECEIVE TWO COATS OF SEALER AS PER SPECIFICATIONS.

CONCRETE DROP CURB
N.T.S.

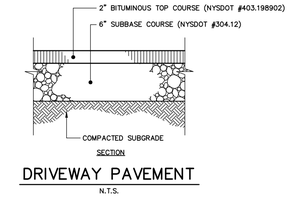
NOTE:
BOX BEAM INSTALLATION, INCLUDING END ASSEMBLIES AND ANCHORS SHALL CONFORM TO N.Y.S.D.O.T. STANDARD SHEET 606-04



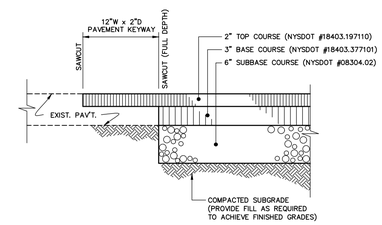
BOX BEAM
N.T.S.



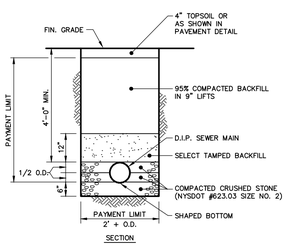
CURB TERMINATION
N.T.S.



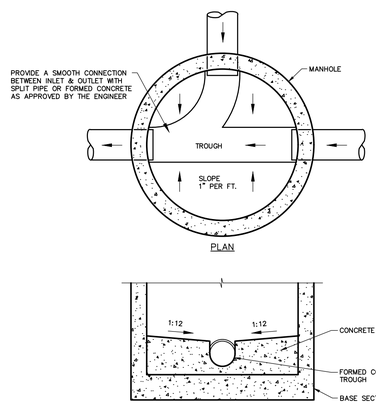
DRIVEWAY PAVEMENT
N.T.S.



ROADWAY PAVEMENT REPLACEMENT & KEYWAY
N.T.S.



SEWER MAIN TRENCH
N.T.S.



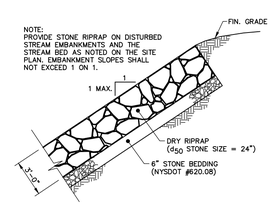
NOTES:

1. THE FORMED TROUGH SHALL BE AT LEAST FULL PIPE DEPTH.

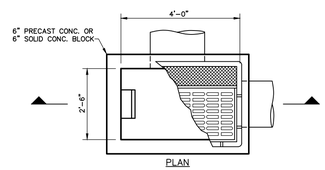
2. BOTTOM OF TERMINAL MANHOLE SHALL BE DISHED WITH A MINIMUM OF 0.1 FT. SLOPE ACROSS THE BOTTOM OF THE MANHOLE.

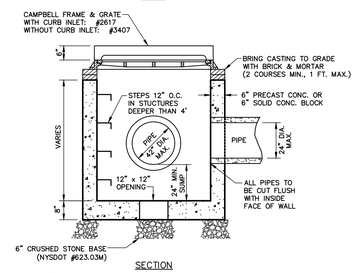
SEWER MANHOLE BASE
N.T.S.

NOTE:
PROVIDE STONE RIPRAP ON DISTURBED STREAM EMBANKMENTS AND THE STREAM BED AS NOTED ON THE SITE PLAN. EMBANKMENT SLOPES SHALL NOT EXCEED 1 ON 1.



STONE RIPRAP STABILIZATION
N.T.S.





NOTES:

1. CATCH BASINS SHALL MEET REQUIREMENTS FOR H-20 LOADING.

2. CATCH BASIN RIM SHALL BE SET AT AN ELEVATION 1/4" BELOW THE SURROUNDING FINISHED GRADE.

3. USE OVERSIZE CATCH BASIN FOR PIPES EXCEEDING SIZES SHOWN (SEE DETAIL).

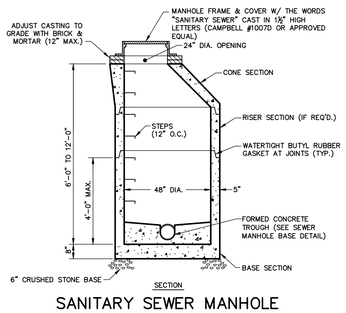
STANDARD CATCH BASIN
N.T.S.

NOTES:

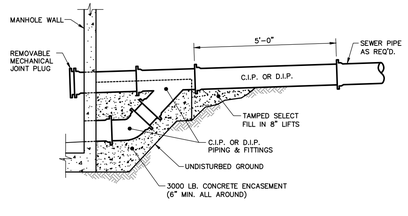
1. PRECAST MANHOLES SHALL HAVE A MINIMUM REINFORCEMENT OF 0.12 SQ. IN. PER L.F. FOR 48" BARRELS AND 0.17 SQ. IN. PER L.F. FOR 60" BARRELS.

2. INLET AND OUTLET PIPES SHALL BE JOINED TO THE MANHOLE WITH A GASKETED FLEXIBLE WATERTIGHT CONNECTION COMPATIBLE WITH THE TYPE OF PIPE BEING USED.

3. MANHOLE EXTERIOR SHALL BE WATERPROOFED WITH AN APPROVED COATING.

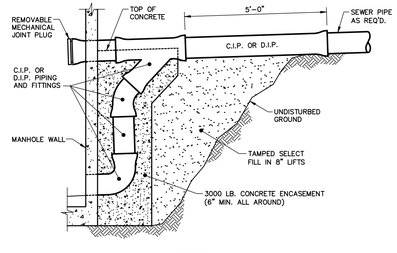


SANITARY SEWER MANHOLE
N.T.S.



NOTE:
ALL PIPES, FITTINGS AND BENDS TO BE C.I.P. (CL 150) OR D.I.P. (CLASS 56)

DROP MANHOLE CONNECTION – TYPE A
N.T.S.



NOTE:
ALL PIPES, FITTINGS AND BENDS TO BE C.I.P. (CL 150) OR D.I.P. (CLASS 56)

DROP MANHOLE CONNECTION – TYPE B
N.T.S.

REV.	DATE	DESCRIPTION
3	10/25/16	ISSUED FOR BID
2	4/3/13	MISC.
1	2/5/13	PER W.C.D.O.H.

STATE OF NEW YORK · JAMES J. HAHN · 035553 · LICENSED PROFESSIONAL ENGINEER

TITLE: SITE DETAILS

PROJECT:

PROPOSED STATION ROAD CULVERT REPLACEMENT PROJECT

VILLAGE OF IRVINGTON, WESTCHESTER COUNTY, NEW YORK

UNAUTHORIZED ALTERATIONS OR ADDITIONS TO THIS DRAWING IS A VIOLATION OF SECTION 7209 (2) OF THE NEW YORK STATE EDUCATION LAW. THIS PLAN IS NULL AND VOID FOR CONSTRUCTION PURPOSES WITHOUT THE SIGNATURE AND SEAL OF THE DESIGN ENGINEER.

JAMES J. HAHN ENGINEERING, P.C.
Putnam Business Park
1689 Route 22
Brewster, New York 10509
Tel: (845) 279-2220

SCALE: AS NOTED | DATE: 10/5/12
DRAWING NO.: C-4 | SHEET NO.: 4 OF 4

H:\Irvington\125009-Station Road Culvert\Drawings\125009\dwg\details\details-125009.dwg | 11/14/2016 4:23:59 PM

conEdison LAYOUT: P14-7300-WI_P1 TICKET NO. WG14010437 DISTRICT 04 BUD.REF. 14GD1

LOCATION: STATION ROAD & BROOK PLACE G-M&S 48-AL G-GEN. G48-AT

DESCRIPTION OF WORK: D.B NEW 8-INCH L.P PE GAS / REMOVE 6-INCH LP STEEL

E-COND./C&DUCT OCCUP. 48-AL E-COMP N/A E-M&S 48-AL

NOTE: IF WORK CANNOT BE DONE AS LAID OUT CALL: 718-839-1765

CONJUNCTIONAL LAYOUT P14-7300-WI P2, DETAIL DWG

FINAL COMPLETION
NOTE: AS CONSTRUCTED CHANGES MUST BE SHOWN ON COPY RETURNED TO MAPS & RECORDS
BY:
DATE:

LAYOUT
DRAWN BY: P. MAGUIRE DATE: 8/09/2016
APPROVED BY: DATE: 8/9/16

* FIELD VERIFY AND CROSS CHECK ALL FACILITIES VIA MAPS AND CODE 753 MARK OUT PRIOR TO WORK *

NO.	REVISION	DRAWN BY	APPROVED BY	DATE
1				
2				
3				

	YES	NO
U.G. PRIMARY/SECONDARY IN WORK AREA		X
OIL-O-STATIC/H.P.P FEEDERS IN WORK AREA		X
KNOWN FIBER OPTICS IN WORK AREA		X
SERVICE THRU VAULTED AREA (REPORT TO GDS)		X
REGULATOR STA. IN WORK AREA		X
MAPS INDICATE PCB'S, COAL TAR WRAP, AUTO SEAL, EPI SEAL		X
NEW MAIN VALVE NUMBERS	X	
DRIP/SYPHON IN WORK AREA	X	
CORROSION WORK ORDER REQUIRED		X
UTILIZE RIGGING EQUIPMENT, CREWS ETC.	X	
LOCAL TRAFFIC IMPACTED FOR EXTENDED PERIODS	X	
IF YES TO BELOW COMPLETE CEHSP 11.03 CHECKLIST		
MGP SITE		X
DEC MAP INDICATES CONTAMINATED SITE WITHIN 100 FT		X
WETLANDS WITHIN 300 FEET OF WORK AREA	X	

GAS TRANSMISSION MAIN IN AREA — YES ☐
CASE NO.
NOTIFY E.R.C. 1-718-319-2343
48 HRS. PRIOR TO EXCAVATION
AS PER SPEC G-11863 — NO ☒

REVIEWED FOR MINIMUM 35-FOOT CLEARANCE BETWEEN EXISTING AND PROPOSED STEAM FACILITIES AND PLASTIC GAS PIPES
NAME P.MAGUIRE EMP. # 13074 DATE 08/09/2016
GAS ENGINEERING
NAME _____ EMP. # _____ DATE _____
STEAM ENGINEERING
STEAM FACILITIES WITHIN 35 FEET OF GAS PIPE YES ☐ NO ☒
TO BE COMPLETED BY FIELD PERSONNEL FOR EXISTING MAINS AT TIE-IN LOCATIONS

EXTERNAL CORROSION - YES ☐ NO ☐ INTERNAL CORROSION - YES ☐ NO ☐ ANODE INSTALLED - YES ☐ NO ☐

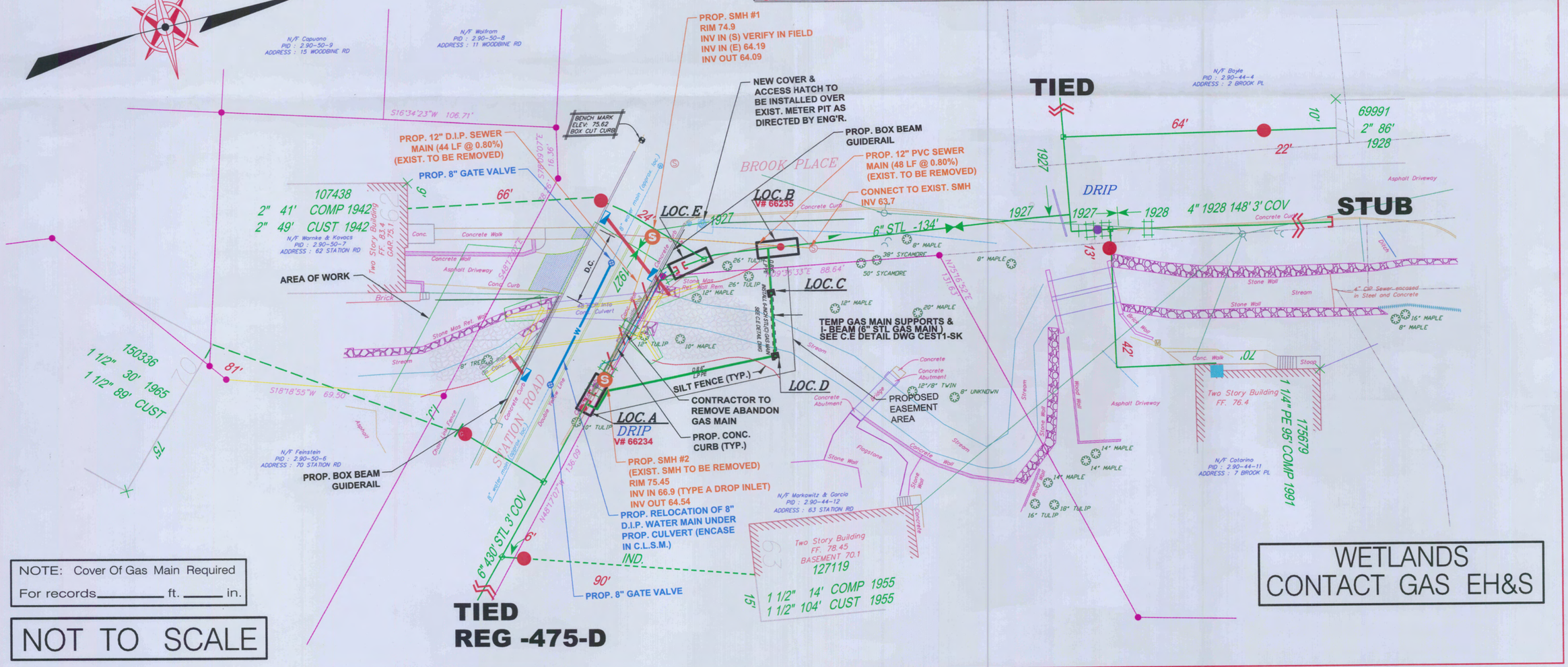
MAINTAINING PROPER CLEARANCES AROUND GAS DISTRIBUTION MAINS AND SERVICES

NOTIFY SUPERVISOR IF PROPER CLEARANCE CANNOT BE MAINTAINED

	MAINTAINED/INSTALLED	
FOR MAINS: 6" MIN. CLEARANCE REQUIRED (2" MIN. PERMITTED WITH PHENOLIC BOARD)	☐ YES	☐ NO
FOR TRANSMISSION MAINS: 12" MIN. CLEARANCE REQUIRED (2" MIN. PERMITTED WITH PHENOLIC BOARD)	☐ YES	☐ NO
FOR SERV'S: 4" MIN. CLEARANCE REQUIRED (2" MIN. PERMITTED WITH PHENOLIC BOARD)	☐ YES	☐ NO

P000497

ITEM	LOCATION	DESCRIPTION OF CONTRACTOR WORK	AS PER C.E SPEC	LENGTH	PROJECT/TASK ACCOUNT NO.	DATE	FIELD SUPV. SIG.
1		FIELD VERIFY GAS MAIN SIZE, LOCATION AND GAS PRESSURE					
2		HAND EXCAVATE 6' X 6' TOLERANCE ZONE AT EACH SERVICE TEE					
3		FIELD VERIFY AND CROSS CHECK ALL ELECTRIC FACILITIES VIA MAPS AND CODE 753 MARK OUT					
4	NOTE	NYSDOT ITEM 08662.8206 INSTALL STEEL GAS MAIN ON STRUCTURE	G-8005		10069923/0001/29564		
5		(CON EDISON TEMP-BYPASS) L.S.					
6	NOTE	NYSDOT ITEM 08662.8332 INSTALL P. E GAS MAIN OFF STRUCTURE	G-8005		10069923/0001/29565		
7		(CON EDISON TEMP-BYPASS) L.S.					
8	NOTE	CONTRACTOR TO SEE CON EDISON TEMP BYPASS DETAIL DWG # CEST1-SK			10069923/0001/29564		
9	C-D	CONTRACTOR TO SUPPLY & INSTALL TEMP GAS PIPE SUPPORTS					
10		ASSOCIATED HARDWARE & STEEL SUPPORT SEE DETAIL DWG # CEST1-SK					
11	A,B,E	CONTRACTOR TO EXCAVATE WORKING OPENING 10' X 5' X 1' BELOW	EO-8085		10069923/0001/29565		
12		EXISTING GAS MAIN.					
13	A-D, B-C	CONTRACTOR TO EXCAVATE & BACKFILL 6-INCH TEMP TRENCH	309495	60'-20'	10069923/0001/29565		
14		SEE CON ED SPEC G-8005-24					
15	D-C	CONTRACTOR TO INSTALL 6-INCH L.P (C) STL SEE C.E DETAIL DWG	G-8005	40'	10069923/0001/29564		
16		SEE_CON_SPECS_G-8005-24.					
17	A,E	ALL_STRUCTURE_WELDS_SHALL_CONFORM_TO_	G-1064-20		10069923/0001/M3741		
18		CON_EDISON_SPEC_G-1064-20.	G-1065				
19	A-B	CONTRACTOR_TO_FABRICATE_&_PLACE_TIE-IN_PIECES_AFTER_	G-8005		10069923/0001/29564		
20		VERIFIED_IN_FIELD.					
21	A-B	CONTRACTOR TO PURGE OUT WITH INERTS & PRESSURE TEST TEMP BY-PASS	G-8204	120'	10100394/0002/M3741		
22		6-INCH LOW_PRESSURE GAS MAIN_AS PER CON EDISON SPEC G-8204-7a					
23	A-E	CONTRACTOR TO REMOVE 6-INCH L.P STL GAS AFTER C.E C/C/P GAS MAIN (SEE ITEM #33)	G-8129-9	55'	10100394/0001/40776		
24		**DESCRIPTION OF CON EDISON WORK**					
25	NOTE	C.E FORCE PUMP DRIPS WITHIN AREA PRIOR TO L.P MAIN CUT-OUTS	IP-7-11		10069923/0001/M3741		
26	A,B	TIE-IN WORK ON LIVE GAS MAINS TO BE PERFORMED BY CON EDISON_	G-8005		10069923/0001/29564		
27	A,B	CON EDISON TO INSTALL 6-INCH BOTTOM-OUT CONTROL FITTINGS	G-8005		10069923/0001/29564		
28	A,B	CON EDISON TO INSTALL 6-INCH TRANSITION FITTINGS	G-8005		10069923/0001/29564		
29	A,B	CON EDISON TO INSTALL 6-INCH P.E BALL VALVES # 66234, # 66235	G-8141		10069923/0001/29565		
30	A,E	CON EDISON TO STOP-OFF, CUT & INS. DRESSER STYLE 31 END CAPS	G-8005		10069923/0001/29564		
31	A	CON EDISON TO CUT & REM.DRIP POTS & C/C/P 6" L.P STL GAS MAIN	GEHSI.E06.07		10067729/0001/40776		
32	A,B	CON EDISON TO INSTALL HOT SPOT & 32 LB MAG ANODE	G-8205-12		10069923/0001/M3741		
33	A-B	CON EDISON TO GAS-IN 6-INCH L.P TEMP BYPASS	G-8005	120'	10100394/0001/M3741		
34	A-E	CON EDISON TO C/C/P 6" L.P STL GAS MAIN ON CULVERT	G-8129-9	55'	10100394/0001/M3741		



06/18/14

conEdison LAYOUT: P14-7300-WI P2 TICKET NO. WG14010437 DISTRICT 04 BUD.REF. 14GD1

LOCATION: STATION ROAD & BROOK PLACE G-M&S 48-AL G-GEN. G48-AT

DESCRIPTION OF WORK: D.B NEW 8-INCH L.P PE GAS / REMOVE 6-INCH LP STEEL

E-COND./C&DUCT OCCUP. 48-AL E-COMP N/A E-M&S 48-AL

NOTE: IF WORK CANNOT BE DONE AS LAID OUT CALL: 718-839-1765

CONJUNCTIONAL LAYOUT P14-7300-WI P1, DETAIL DWG

LAYOUT

FINAL COMPLETION
NOTE: AS CONSTRUCTED CHANGES MUST BE SHOWN ON COPY RETURNED TO MAPS & RECORDS
BY:
DATE:

DRAWN BY: P MAGUIRE DATE: 8/09/2016
APPROVED BY: DATE: 8/9/16

* FIELD VERIFY AND CROSS CHECK ALL FACILITIES VIA MAPS AND CODE 753 MARK OUT PRIOR TO WORK *

NO.	REVISION	DRAWN BY	APPROVED BY	DATE
1				
2				
3				

	YES	NO
U.G. PRIMARY/SECONDARY IN WORK AREA		X
OIL-O-STATIC/H.P.P FEEDERS IN WORK AREA		X
KNOWN FIBER OPTICS IN WORK AREA		X
SERVICE THRU VAULTED AREA (REPORT TO GDS)		X
REGULATOR STA. IN WORK AREA		X
MAPS INDICATE PCB'S, COAL TAR WRAP, AUTO SEAL, EPI SEAL		X
NEW MAIN VALVE NUMBERS	X	
DRIP/SYPHON IN WORK AREA	X	
CORROSION WORK ORDER REQUIRED	X	
UTILIZE RIGGING EQUIPMENT, CREWS ETC.	X	
LOCAL TRAFFIC IMPACTED FOR EXTENDED PERIODS	X	
IF YES TO BELOW COMPLETE CEHSP 11.03 CHECKLIST		
MGP SITE		X
DEC MAP INDICATES CONTAMINATED SITE WITHIN 100 FT		X
WETLANDS WITHIN 300 FEET OF WORK AREA	X	

GAS TRANSMISSION MAIN IN AREA
CASE NO.
NOTIFY E.R.C. 1-718-319-2343
48 HRS. PRIOR TO EXCAVATION
AS PER SPEC G-11863
YES ☐ NO ☒

REVIEWED FOR MINIMUM 35-FOOT CLEARANCE BETWEEN EXISTING AND PROPOSED STEAM FACILITIES AND PLASTIC GAS PIPES
NAME P. MAGUIRE EMP. # 13074 DATE 8/09/2016
GAS ENGINEERING
NAME EMP. # DATE
STEAM ENGINEERING
STEAM FACILITIES WITHIN 35 FEET OF GAS PIPE YES ☐ NO ☒
TO BE COMPLETED BY FIELD PERSONNEL FOR EXISTING MAINS AT TIE-IN LOCATIONS

EXTERNAL CORROSION - YES ☐ NO ☐ INTERNAL CORROSION - YES ☐ NO ☐ ANODE INSTALLED - YES ☐ NO ☐

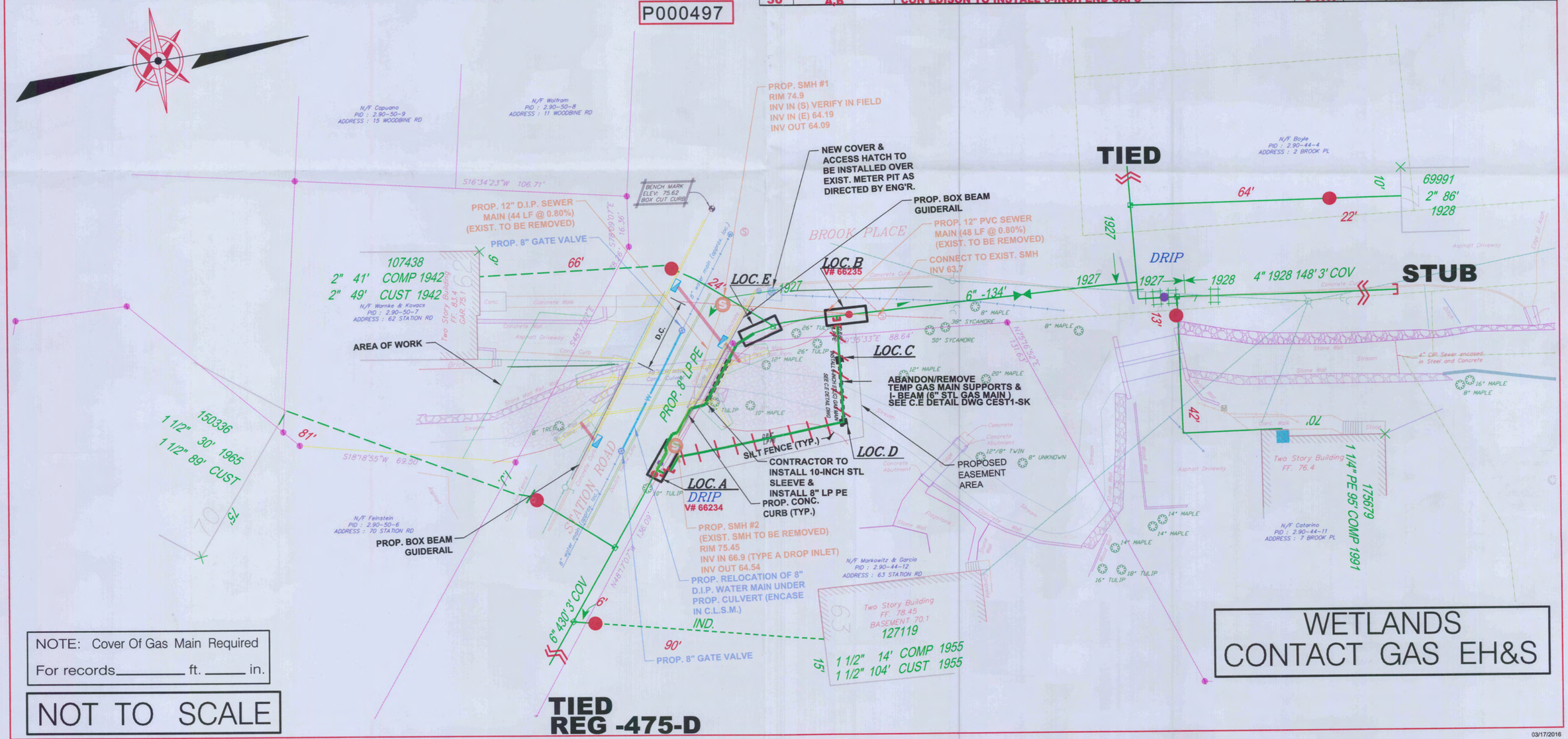
MAINTAINING PROPER CLEARANCES AROUND GAS DISTRIBUTION MAINS AND SERVICES

NOTIFY SUPERVISOR IF PROPER CLEARANCE CANNOT BE MAINTAINED

	MAINTAINED/INSTALLED	
FOR MAINS: 6" MIN. CLEARANCE REQUIRED (2" MIN. PERMITTED WITH PHENOLIC BOARD)	☐ YES	☐ NO
FOR TRANSMISSION MAINS: 12" MIN. CLEARANCE REQUIRED (2" MIN. PERMITTED WITH PHENOLIC BOARD)	☐ YES	☐ NO
FOR SERV'S: 4" MIN. CLEARANCE REQUIRED (2" MIN. PERMITTED WITH PHENOLIC BOARD)	☐ YES	☐ NO

ITEM	LOCATION	DESCRIPTION OF CONTRACTOR WORK	AS PER C.E SPEC	LENGTH	PROJECT/TASK ACCOUNT NO.	DATE	FIELD SUPV. SIG.
1		FIELD VERIFY GAS MAIN SIZE, LOCATION AND GAS PRESSURE					
2		HAND EXCAVATE A 6' X 6' TOLERANCE ZONE AT EACH SERVICE TEE					
3		FIELD VERIFY AND CROSS CHECK ALL ELECTRIC FACILITIES VIA MAPS AND CODE 753 MARK OUT					
4	A-E	CONTRACTOR TO INSTALL NYSDOT ITEM 662.8610nn08 INSTALL 10"	G-8005	20'	10069923/0001/29564		
5		STEEL CASING PIPE ON STRUCTURE. L.S. LINK SEALS (2) LS-475-C	G-8096-8				
6	A-E	CONTRACTOR TO INSTALL NYSDOT ITEM 662.83030808 8-INCH NPS	G-8005	30'	10069923/0001/29565		
7		PLASTIC GAS MAIN PIPE IN CASING ON STRUCTURE. L.S					
8	A-E	CONTRACTOR TO INSTALL NYSDOT ITEM 08662.8332 INSTALL	G-8005	55'	10069923/0001/29565		
9		PLASTIC GAS MAIN OFF STRUCTURE. L.S					
10							
11	A,B,E	CONTRACTOR TO RE-EXCAVATE WORKING OPENING 10' X 5' X 1'		40'	10069923/0001/29565		
12		BELOW EXISTING GAS MAIN.					
13	A-E	CONTRACTOR TO EXCAVATE & BACKFILL 8-INCH L.P P.E GAS	309495	55'	10069923/0001/29565		
14		TRENCH SEE C.E SPEC 309495					
15							
16	A-E	CONTRACTOR TO INSTALL 8-INCH L.P PE GAS MAIN 45 DEG FITTINGS,	G-8005		10069923/0001/29565		
17		TRANSITION FITTING & STEEL PROTECTION PLATES AS PER SPEC	E0-6799-C				
18	A-E	CONTRACTOR TO FABRICATE & PLACE TIE-IN PIECES AFTER	G-8005		10069923/0001/29565		
19		VERIFIED IN FIELD.					
20		CONTRACTOR TO PURGE OUT WITH INERTS & PRESSURE TEST	G-8129				
21		8-INCH DIA L.P GAS MAIN AS PER CON EDISON SPEC G-8204-6	G-8204				
22	A-B	CONTRACTOR TO REMOVE 6" STL/ PE TEMP GAS MAINS & SUPPORTS		120'	10067729/0001/40776		
23		**DESCRIPTION OF CON EDISON WORK**					
24	A-E	TIE-IN WORK ON LIVE GAS MAINS TO BE PERFORMED BY CON EDISON	G-8005		10069923/0001/29565		
25	A	CON EDISON TO INSTALL NEW DRIP # 12556.	G-8005		10069923/0001/M3741		
26	A,E	CON EDISON TO INSTALL 8-INCH X 6-INCH PE REDUCER .	G-8005		10069923/0001/29565		
27		INSTALL 32LB "HOT SPOT" MAGNESIUM AS PER SPEC G-8205-12	G-8205-12		10069923/0001/M3741		
28	A,B	CON EDISON TO CUT/PURGE/ABANDON 6-INCH STL/PE TEMP BYPASS.	G-8129	114'	10067729/0001/40776		
30	A,B	CON EDISON TO INSTALL 6-INCH END CAPS	G-8005		10067729/0001/M3741		

P000497



NOTE: Cover Of Gas Main Required
For records_____ ft. _____ in.

NOT TO SCALE

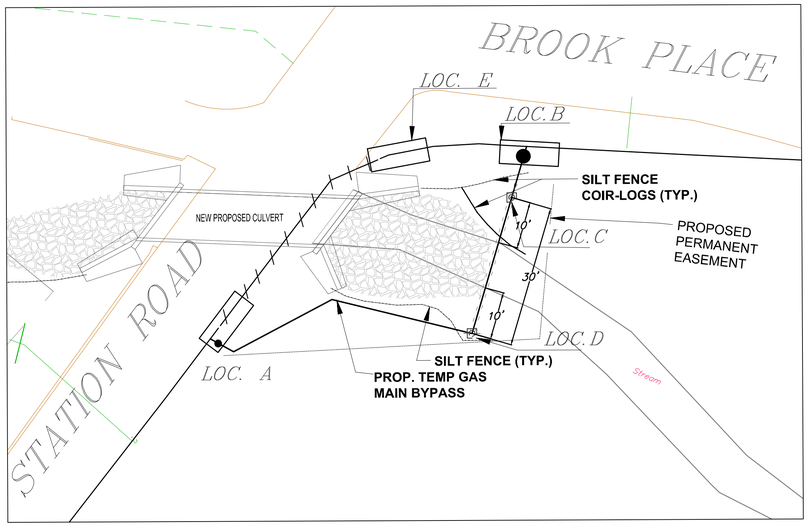
TIED
REG -475-D

03/17/2016

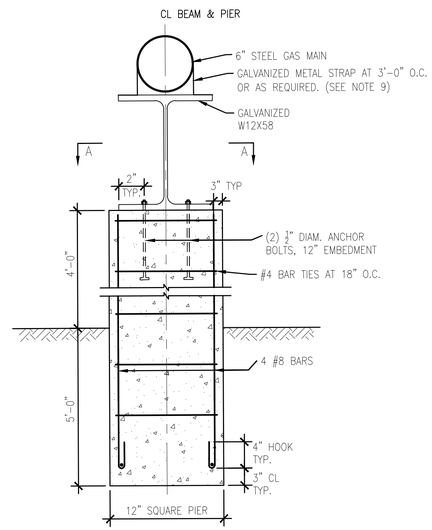
FED. RD REG. NO	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
	NEW YORK		CEST1-SK	1

VILLAGE OF IRVINGTON
WESTCHESTER COUNTY, NEW YORK

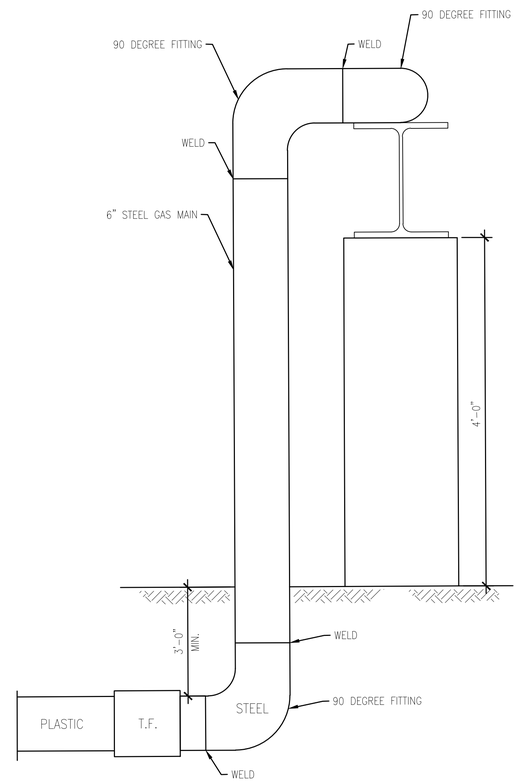
WESTCHESTER COUNTY



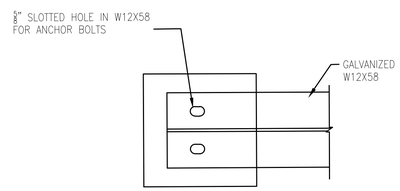
LOCATION PLAN



TEMPORARY GAS MAIN BYPASS STRUCTURE
AND FOOTING DETAIL
N.T.S.



GAS MAIN BYPASS ELEVATION
N.T.S.



SECTION A-A
N.T.S.

STRCTURAL NOTES: TEMP GAS BYPASS

NOTE:
1. WORK ZONE FOR TEMP. BYPASS WILL BE INSIDE OF CULVERT PERMANENT EASEMENT.
2. CONTRACTOR TO MAINTAIN ACCESS TO GAS MAIN AT ALL TIMES.
3. CONTRACTOR TO MAINTAIN AND PROTECT GAS MAIN.
4. CONCRETE SHALL HAVE A 28 DAY COMPRESSIVE STRENGTH OF 3,000 PSI.
5. STRUCTURAL STEEL SHALL BE MINIMUM A36 STEEL.
6. MAINTAIN MINIMUM 3 FEET COVER FOR UNDERGROUND GAS MAIN
7. CONTRACTOR TO COMPACT SOIL AROUND FOOTING.
8. GAS MAIN AND FITTINGS TO BE SUPPLIED BY CON EDISON. ALL OTHER MATERIALS TO BE SUPPLIED BY CONTRACTOR.
9. CONTRACTOR TO SUBMIT METAL STRAP FOR REVIEW BY ENGINEER
10. ALL GAS MAIN WELDING SHALL BE DONE BY A CON EDISON QUALIFIED AND CERTIFIED WELDER IN ACCORDANCE TO G-1065 (PENDING AND DETERMINATION BY CONSTRUCTION).
11. INSTALLATION OF NEW GAS MAIN IN ACCORDANCE TO ITEM 662.8101NN08 M , ITEM 662.8333XX08, ITEM 662.8334XX08, AND ITEM 662.2509 11

SEE CON EDISON SPECIFICATIONS

309495 TRENCH EXCAVATION FOR GAS MAINS UP TO 350 PSIG
EO-6799-C PROTECTIVE COVER
G-1064-18 SHIELD METAL ARC WELDING PROCEDURE FOR WELDING
CE-SS-3400-3300 CAST IN PLACE CONCRETE
G-1065 QUALIFICATION OF WELDERS AND WELDING PROCEDURES
G-1066 QUALIFICATION OF RADIOGRAPHERS AND RADIOGRAPHIC PROCEDURES
G-1070 RADIOGRAPHIC INSPECTION OF PIPELINE WELDS
G-8005 GENERAL SPECIFICATION FOR THE INSTALLATION OF GAS DISTRIBUTION MAINS
G-8204 PRESSURE TESTING REQUIREMENTS FOR NEW AND REPLACEMENT GAS MAINS AND SERVICES
G-8209 FIELD COATING OF STEEL PIPE AND FITTINGS INSTALLED UNDERGROUND AND IN SUBSURFACE STRUCTURES
662.8101NN08 M - INSTALL STEEL GAS MAIN PIPE ON STRUCTURE
662.8333XX08 - INSTALL STEEL GAS MAIN PIPE OFF STRUCTURE
662.8334XX08 - INSTALL PLASTIC GAS MAIN PIPE OFF STRUCTURE
662.2509 11 - INSTALLATION OF CON EDISON GAS MAIN AND APPURTENANT WORK AT STRUCTURE S-9 AND APPROACHES

STATE OF NEW YORK
JAMES PETER GUIDAR
068614
LICENSED PROFESSIONAL ENGINEER

PROPOSED STATION ROAD
CULVERT REPLACEMENT PROJECT

VILLAGE OF IRVINGTON
WESTCHESTER COUNTY, NEW YORK

TEMPORARY GAS BYPASS
STRUCTURAL DETAILS

DRAWING NO.	SCALE	DATE	SHEET
CEST1-SK	AS NOTED	06/27/14	CEST1-SK

CON EDISON

CON EDISON CO DWG CEST1-SK

0 1 2 3 4
ORIGINAL SIZE IN INCHES

IN CHARGE OF: C.R.KRESS
DESIGNER: C.KIRK
DRAFTER: C.KIRK
CHECKER: P.BAKARICH

06/06/06