# EAST NORTHPORT LANDFILL
# TOWN OF HUNTINGTON
## SUFFOLK COUNTY, NEW YORK

HUNTINGTON
AB BUILTS

## INTERIM REMEDIAL PROGRAM
## WC-2
## PERIMETER LANDFILL GAS COLLECTION SYSTEM

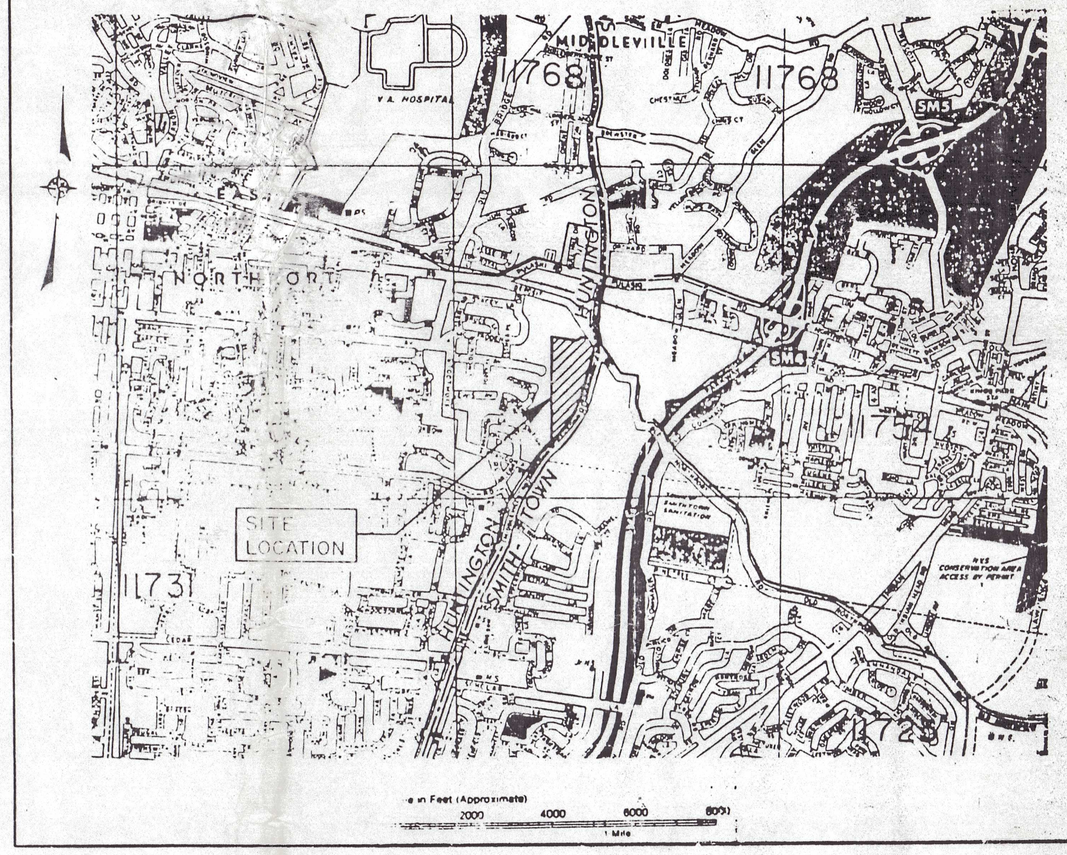
### VICINITY MAP




### LIST OF DRAWINGS

| DWG. NO. | TITLE |
|---|---|
| | COVER SHEET |
| 1 | PLAN OF LANDFILL GAS COLLECTION SYSTEM (NORTHERN SECTION) |
| 2 | PLAN OF LANDFILL GAS COLLECTION SYSTEM (CENTER SECTION) |
| 3 | PLAN OF LANDFILL GAS COLLECTION SYSTEM (SOUTHERN SECTION) |
| 4 | HEADER PIPE PROFILE |
| 5 | HEADER PIPE PROFILE |
| 6 | HEADER PIPE SECTIONS |
| 7 | NEW MONITORING WELLS & BOLLARD DETAILS |
| 8 | NEW COLLECTION WELL & MANHOLE DETAILS |
| 9 | MODIFICATIONS OF EXISTING COLLECTION WELLS |
| 10 | NEW CONDENSATE TRAP, ISOLATION VALVE & MANHOLE DETAILS |
| 11 | EXISTING COLLECTION UNIT I BLOWER STATION |
| 12 | BLOWER UNIT NO.1 |
| 13 | BLOWER UNIT NO.1 – SECTIONS |
| 14 | BLOWER UNIT NO.1 – ELECTRICAL |
| 15 | EXISTING COLLECTION UNIT II BLOWER STATION |
| 16 | PLAN OF EXISTING LANDFILL GAS COLLECTION SYSTEM |

### LOCATION MAP





**DVIRKA AND BARTILUCCI**
**CONSULTING ENGINEERS**
**SYOSSET , NEW YORK**

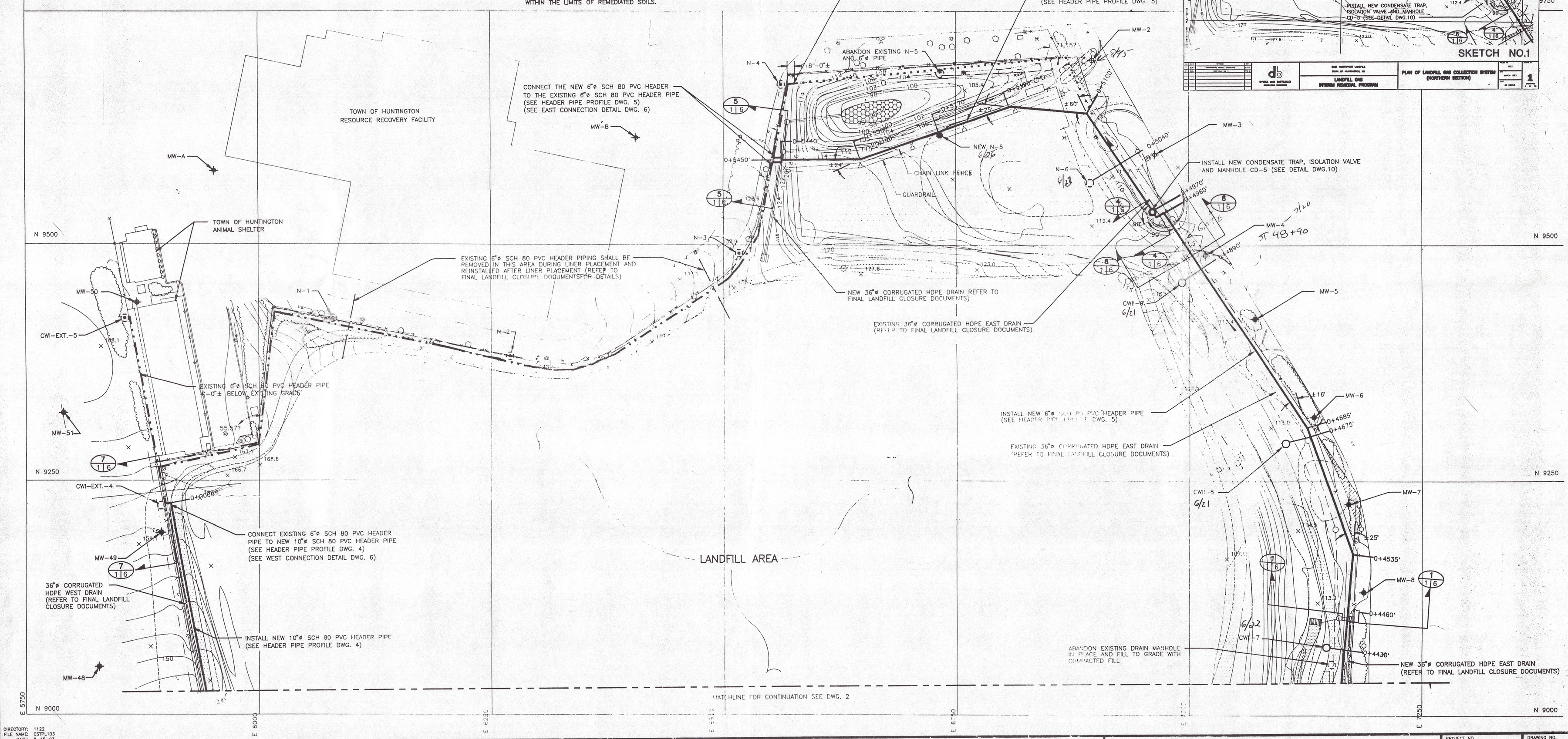

**MAY, 1994**

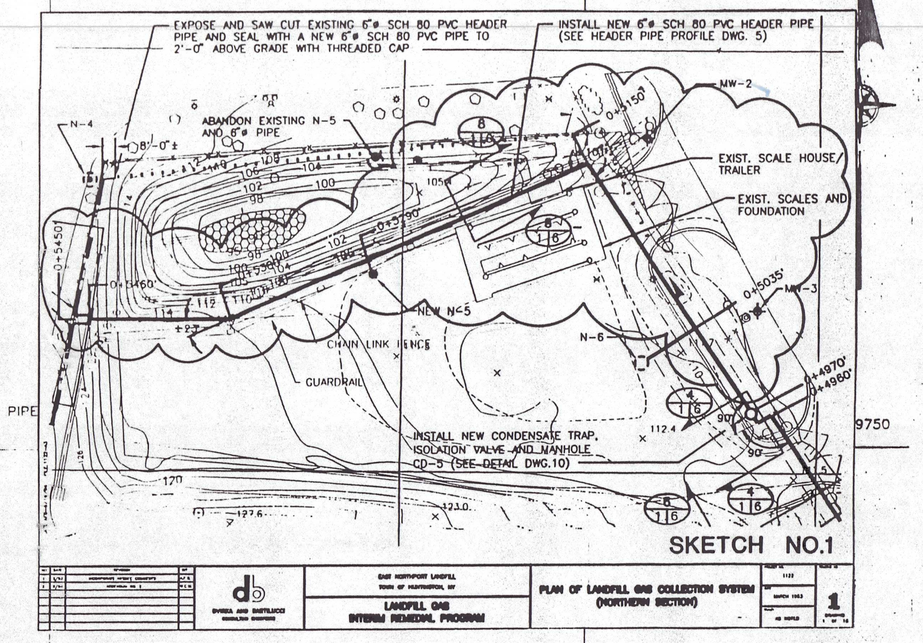
## LEGEND

- EXISTING HEADER PIPE TO BE ABANDONED
- EXISTING HEADER PIPE
- NEW HEADER PIPE
- EXISTING MONITORING WELLS MW-A AND MW-B LOCATED FOR INFORMATION ONLY. NO ACTION REQUIRED.
- INSTALL NEW MONITORING WELLS MW-2, 3 AND 4 (SEE DETAIL DWG 7)
- INSTALL NEW MONITORING WELL VALVE ENCASEMENT AND CONCRETE FOUNDATION FOR EXIST. MONITORING WELLS MW-5,6,7,8,48,49,50 AND 51 (SEE DETAIL DWG. 7)
- EXISTING COLLECTION WELL CWI-EXT.-4 AND N-6 (CONNECT TO NEW HEADER PIPE)
- MODIFY EXISTING COLLECTION WELLS CWII-7 8 AND 9 (SEE DETAIL DWG. 9)
- INSTALL NEW COLLECTION WELL N-5 (SEE DETAIL DWG. 8)
- EXISTING COLLECTION WELLS N-1,2,3, & 4 AND CWI-EXT.-5 NO ACTION REQUIRED
- NEW CONDENSATE TRAP AND ISOLATION VALVE MANHOLE CD-5 (SEE DETAIL DWG. 10)
- EXISTING N-5 TO BE ABANDONED

## GENERAL NOTES

1. ALL BACKGROUND SITE, DRAINAGE AND TOPOGRAPHICAL INFORMATION HAS BEEN REPRODUCED FROM THE FINAL LANDFILL CLOSURE DOCUMENTS AND SUPERIMPOSED OR INCORPORATED ON THESE DRAWINGS FOR THE CONTRACTOR'S CONVENIENCE. PRIOR TO THE START OF ANY WORK THE CONTRACTOR MUST VERIFY EXISTING FIELD CONDITIONS.
2. THE CONTRACTOR SHALL INSTALL ALL NEW HEADER PIPING AND WELLS WITHIN THE LIMITS OF REMEDIATED SOILS.
3. THE OWNER MAINTAINS ONGOING OPERATIONS OF EXISTING LANDFILL GAS CONTROL SYSTEM. THE CONTRACTOR SHALL PROVIDE FOR SEQUENTIAL CONSTRUCTION OF THE NEW GAS CONTROL SYSTEM TO MINIMIZE OPERATING DOWNTIME FOR THE EXISTING SYSTEM TO LESS THAN 24 HOURS FOR ANY SEGMENT UNDER CONSTRUCTION.
4. HEADER PIPE LENGTHS AND DIRECTION ANGLES ARE SHOWN ± AND ARE DEPENDENT ON FIELD CONDITIONS.
5. THE CONTRACTOR SHALL INSTALL ALL CONCRETE FOUNDATIONS WITHIN THE LIMITS OF REMEDIATED SOILS.




SKETCH NO.1

| NO. | DATE | REVISION | INT. |
|---|---|---|---|
| 1 | 2/93 | INCORPORATE NYSDEC'S COMMENTS | A.F.B. |

DIRECTORY: 1122
FILE NAME: CSTPL103
DATE: 6-15-93

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| PROJECT ENGINEER | DRAWN BY |
|---|---|
| P.J.W. | A.F.B. |
| DESIGNED BY | CHECKED BY |
| M.P.R. | |

DVIRKA AND BARTILUCCI CONSULTING ENGINEERS

EAST NORTHPORT LANDFILL
TOWN OF HUNTINGTON , N.Y.

LANDFILL GAS
INTERIM REMEDIAL PROGRAM

# PLAN OF LANDFILL GAS COLLECTION SYSTEM (NORTHERN SECTION)

PROJECT NO. 1122
DATE: JUNE, 1993
SCALE: 1"=50'
DRAWING NO. 1
DRAWING 1 OF 15

# LANDFILL GAS INTERIM REMEDIAL PROGRAM

EAST NORTHPORT LANDFILL
TOWN OF HUNTINGTON, NEW YORK

## PLAN OF LANDFILL GAS COLLECTION SYSTEM (CENTER SECTION)

DRAWING NO. 2 OF 16

PROJECT NO. 1122
DATE: JUNE, 1983
SCALE: 1"=50'

DVIRKA AND BARTILUCCI
CONSULTING ENGINEERS

M.F.R. — DESIGN BY
P.J.W. — DRAWN BY
A.F.R. — CHECKED BY

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STATE OF NEW YORK
WILLIAM C. MULLER
No. 49,703

| NO. | DATE | REVISION | INT. |
|---|---|---|---|
| 1 | 2/93 | INCORPORATE NYSDEC'S COMMENTS | A.F.R. |

DIRECTORY: 1122
FILE NAME: C8T1204
DATE: 6-10-83

MATCHLINE FOR CONTINUATION SEE DWG. 3

MATCHLINE FOR CONTINUATION SEE DWG. 1

LANDFILL AREA

STATION 0+00 DOES NOT MATCH SCALE OR COORDINATE LINES. COORDINATES USED TO LOCATE WELLS.

(REFER TO FINAL LANDFILL CLOSURE DOCUMENTS)

### LEGEND

- NEW HEADER PIPE
- INSTALL NEW MONITORING WELLS MW-10, AND 11 (SEE DETAIL DWG 7)
- INSTALL NEW MONITORING WELL VALVE ENCASEMENT AND CONCRETE FOUNDATION FOR EXIST. MONITORING WELLS MW-9,12,13,14,15,16, 17,43,44,45,46 AND 47 (SEE DETAIL DWG. 7)
- EXISTING COLLECTION WELL CWI-EXT.-1, 2 AND 3 (CONNECT TO NEW HEADER PIPE)
- MODIFY EXISTING COLLECTION WELLS CWII-2, 3,4,5 AND 6 (SEE DETAIL DWG. 9)
- INSTALL NEW COLLECTION WELL NW-3 AND 8 (SEE DETAIL DWG. 8)
- NEW CONDENSATE TRAP AND ISOLATION VALVE MANHOLE CD-1, AND 4 (SEE DETAIL DWG. 10)

INSTALL NEW CONDENSATE TRAP AND ISOLATION VALVE MANHOLE CD-1 (SEE DETAIL DWG. 10)

INSTALL NEW 12"ø SCH 80 PVC HEADER PIPE (SEE HEADER PIPE PROFILE DWG. 4)

NEW DOWNDRAIN 6 36"ø CORRUGATED HDPE (REFER TO FINAL LANDFILL CLOSURE DOCUMENTS)

NEW 36"ø CORRUGATED HDPE WEST DRAIN (REFER TO FINAL LANDFILL CLOSURE DOCUMENTS)

NEW DOWNDRAIN Z 24"ø CORRUGATED HDPE (REFER TO FINAL LANDFILL CLOSURE DOCUMENTS)

INSTALL NEW 12"ø SCH 80 PVC HEADER PIPE (SEE HEADER PIPE PROFILE DWG. 5)

INSTALL NEW 12"ø SCH 80 PVC REDUCER

INSTALL NEW 12"ø X12"ø X12"ø SCH.80 PVC TEE FACING VERTICAL W/A BLIND FLANGE AND 6"ø X12"ø SCH.80 REDUCER (SEE FUTURE CONNECTION DETAIL DWG. 6)

DEMOLISH EXISTING COLLECTION UNIT II BLOWER STATION (SEE DETAIL DWG. 14)

EXISTING DRAIN MANHOLES TO BE DEMOLISHED DOWN TO 2 FEET BELOW GEOMEMBRANE, NON-DEMOLISHED PORTION TO BE ABONDONED IN PLACE AND BACKFILLED WITH COMPACTED FILL

LIMITS OF PROPOSED LANDFILL GAS POWER GENERATOR SITE

INSTALL NEW CONDENSATE TRAP AND ISOLATION VALVE MANHOLE CD-4(SEE DETAIL DWG.10)

Surveyed in by JDP 11/20/95.

E 7500 E 7250 E 6500 E 6750

N 9000 N 8750 N 8500 N 8250

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|---|---|---|---|
| 1 | 2/93 | INCORPORATE NYSDEC'S COMMENTS | A.F.B. |

PROJECT ENGINEER: P.J.W. | DRAWN BY: A.F.B. | DESIGNED BY: M.P.R. | CHECKED BY:

DVIRKA AND BARTILUCCI
CONSULTING ENGINEERS

# LANDFILL GAS INTERIM REMEDIAL PROGRAM

EAST NORTHPORT LANDFILL
TOWN OF HUNTINGTON, NEW YORK

## PLAN OF LANDFILL GAS COLLECTION SYSTEM (SOUTHERN SECTION)

PROJECT NO. 1122 | DATE JUNE, 1993 | SCALE 1"=50' | DRAWING NO. 3 of Bb1

DIRECTORY: 1122
FILE NAME: GSTM3DS
DATE: 8-14-93

LEGEND

- NEW HEADER PIPE
- INSTALL NEW MONITORING WELLS MW-19 AND 23 (SEE DETAIL DWG 7)
- INSTALL NEW MONITORING WELL VALVE ENCASEMENT AND CONCRETE FOUNDATION FOR EXIST. MONITORING WELLS MW-18,20,21,22,24,25, 26,27,37,38,40,41 AND 42 (SEE DETAIL DWG. 7)
- MODIFY EXISTING COLLECTION WELLS CM1-4,5, 6,7 AND CM11-1 (SEE DETAIL DWG. 9)
- INSTALL NEW COLLECTION WELL MW-1,2,3 & 4 (SEE DETAIL DWG. 8)
- NEW CONDENSATE TRAP AND ISOLATION VALVE MANHOLES CD-2 & 3 (SEE DETAIL DWG. 10)

N 8000 | N 7750 | N 7500 | N 7250 | E 6000 | E 6250 | E 6500 | E 6750

MATCHLINE FOR CONTINUATION SEE SHEET 2

LANDFILL AREA

DEMOLISH EXISTING COLLECTION UNIT 1 BLOWER STATION (SEE DETAIL DWG. 11)

NEW BLOWER UNIT NO. 1 (SEE DETAIL DWG. 12 AND NOTE 5 ON DWG.NO.1)

INSTALL NEW CONDENSATE TRAP AND MANHOLE CD-2 (SEE DETAIL DWG. 10)

INSTALL NEW 12"ø x 14"ø SCH RO PVC REDUCER (SEE HEADER PIPE PROFILE DWG 4)

INSTALL NEW 14"ø SCH RO PVC HEADER PIPE (SEE HEADER PIPE PROFILE DWG. 4)

INSTALL NEW 12"ø SCH RO PVC HEADER PIPE (SEE HEADER PIPE PROFILE DWG. 4)

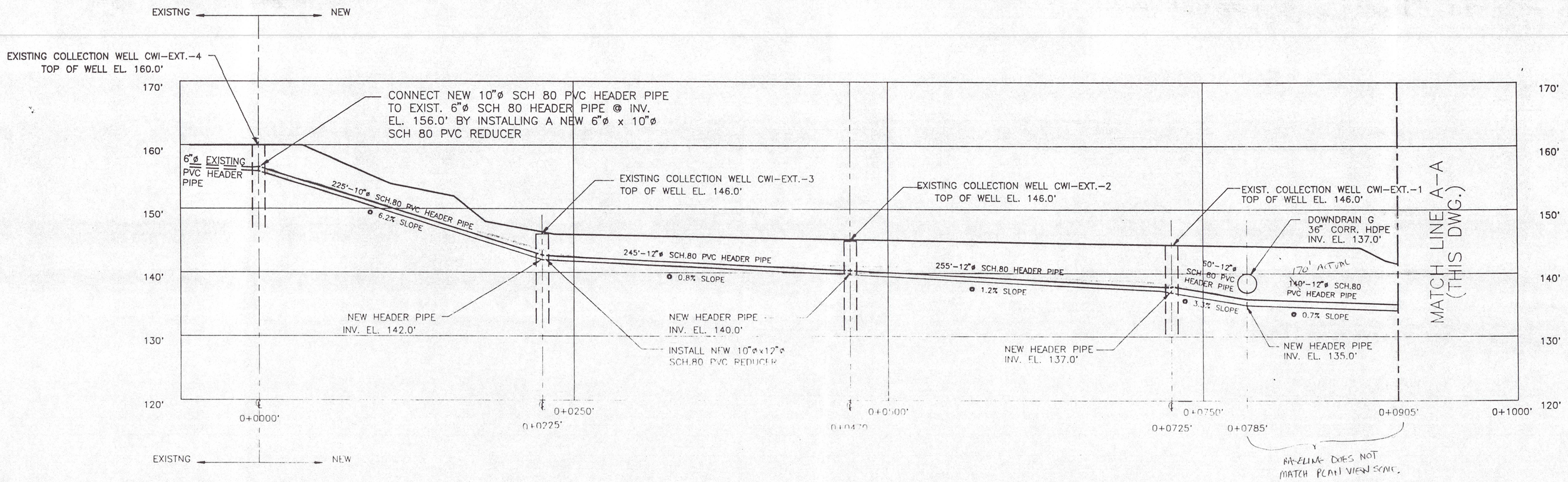
INSTALL NEW 14"ø SCH RO PVC HEADER PIPE (SEE HEADER PIPE PROFILE DWG. 5)

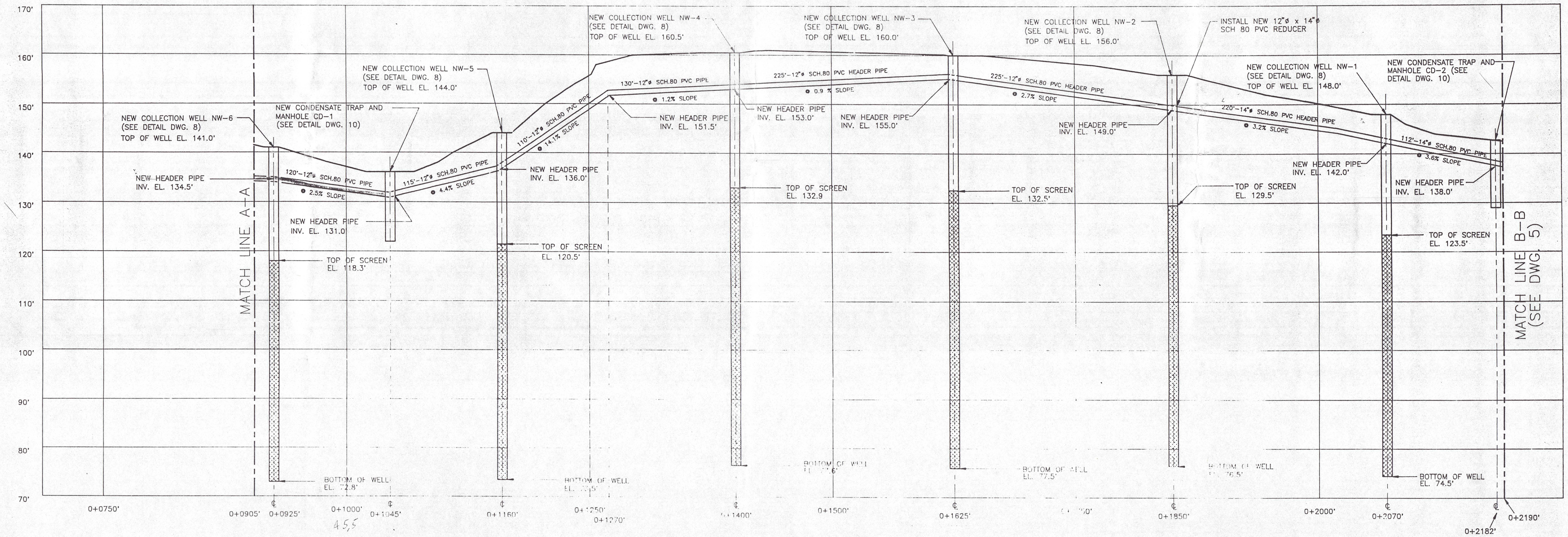
ABANDON IN PLACE AND FILL TO GRADE WITH COMPACTED FILL

INSTALL NEW CONDENSATE TRAP AND ISOLATION VALVE MANHOLE CD-3 (SEE DETAIL DWG. 10)

MW-18 MW-19 MW-20 MW-21 MW-22 MW-23 MW-24 MW-25 MW-27 MW-35 MW-37 MW-38 MW-39 MW-40 MW-41 MW-42 MW-2 MW-3 MW-4 MW-5 MW-6 MW-7 MW-8

CM1-5 CM1-6 CM1-7 CM11-1




## WESTERN BRANCH HEADER PIPE PROFILE

SCALE: HORIZONTAL 1"=50'
VERTICAL 1"=10'

DIRECTORY: 1122
FILE NAME: HPPROF1
DATE: 4-13-93

| NO. | DATE | REVISION | INT. |
|---|---|---|---|
| 1 | 2/93 | INCORPORATE NYSDEC COMMENTS | A.F.B. |

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| PROJECT ENGINEER: P.J.W. | DRAWN BY: A.F.B. |
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| DESIGNED BY: M.P.R. | CHECKED BY: |

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CONSULTING ENGINEERS

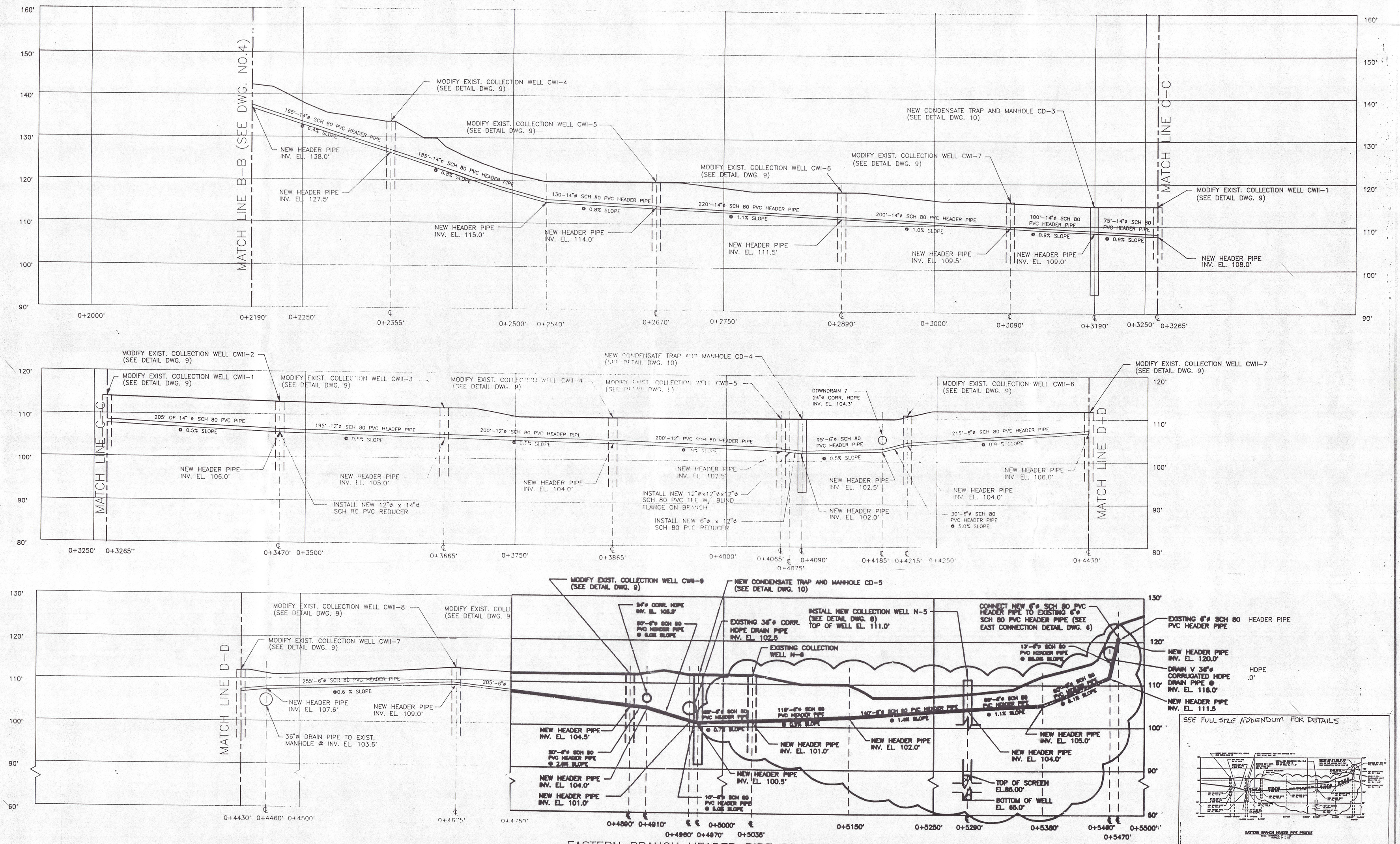
EAST NORTHPORT LANDFILL
TOWN OF HUNTINGTON, N.Y.

LANDFILL GAS
INTERIM REMEDIAL PROGRAM

HEADER PIPE PROFILE

PROJECT NO. 1122
DATE: MARCH, 1993
SCALE: AS-SHOWN

DRAWING NO. 4
DRAWING 4 OF 16




SEE FULL SIZE ADDENDUM FOR DETAILS



EASTERN BRANCH HEADER PIPE PROFILE

SCALE: HORIZONTAL 1" = 50'
VERTICAL 1" = 10'

SKETCH NO.2

DIRECTORY: 1122
FILE NAME: HPPROF2
DATE: 6-15-93

| NO. | DATE | REVISION | INT. |
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| PROJECT ENGINEER | DRAWN BY |
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| P.J.W. | A.F.B. |
| DESIGNED BY | CHECKED BY |
| M.P.R. | |

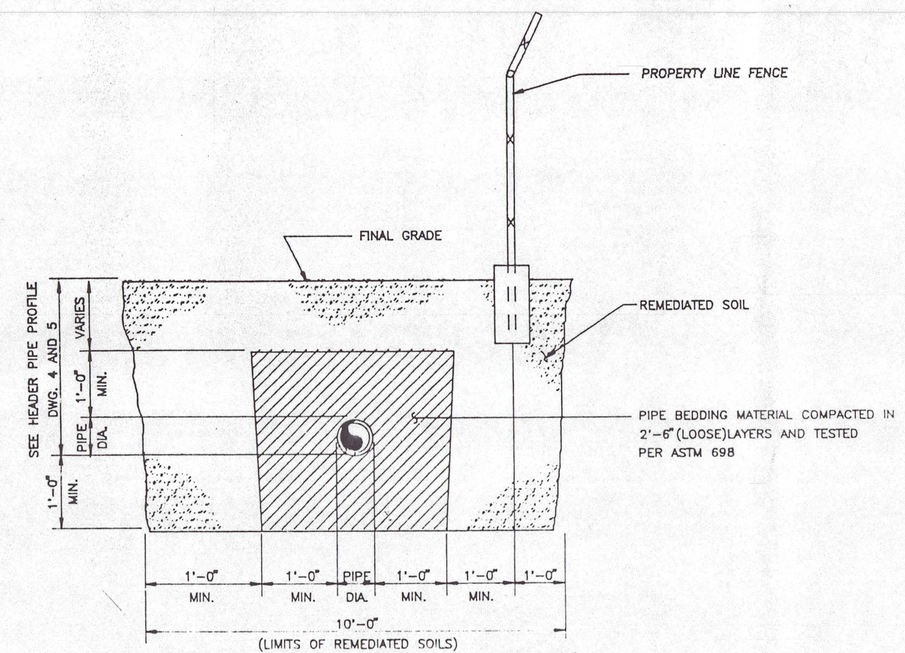
DVIRKA AND BARTILUCCI
CONSULTING ENGINEERS

EAST NORTHPORT LANDFILL
TOWN OF HUNTINGTON, N.Y.

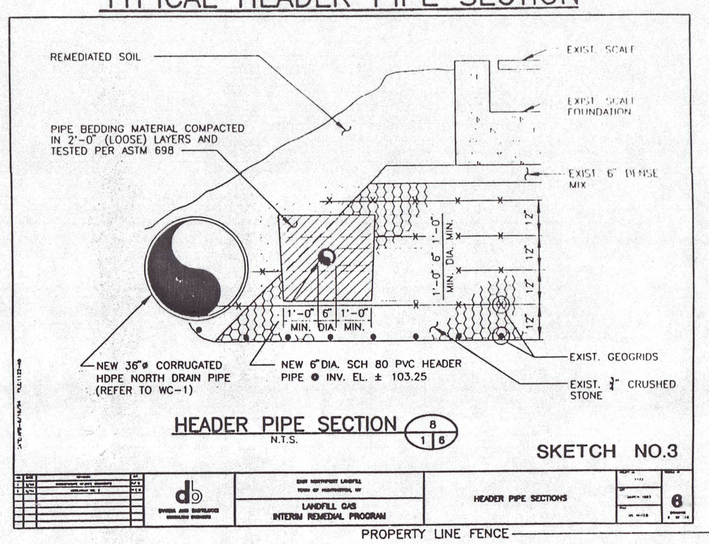
LANDFILL GAS
INTERIM REMEDIAL PROGRAM

# HEADER PIPE PROFILE

| PROJECT NO. | DRAWING NO. |
|---|---|
| 1122 | 5 |
| DATE: JUNE,1993 | |
| SCALE: AS–SHOWN | |



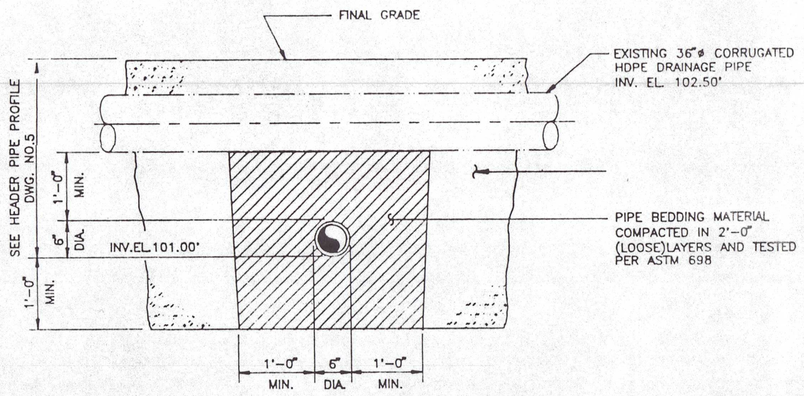

## TYPICAL HEADER PIPE SECTION



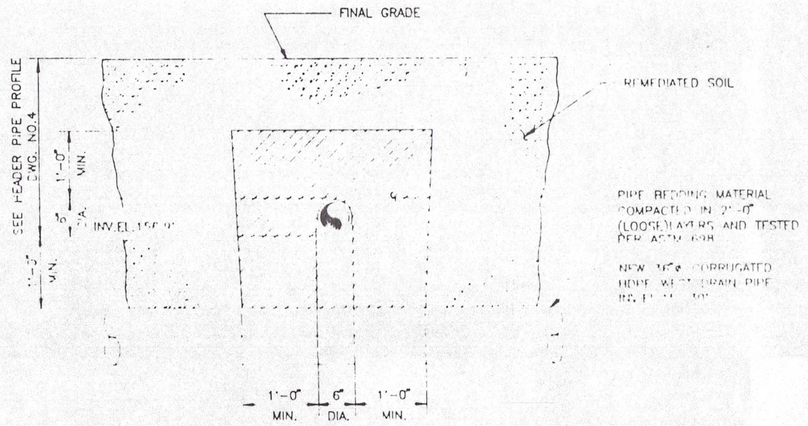

## HEADER PIPE SECTION (6 / 1 | 5)
N.T.S.

SKETCH NO.3

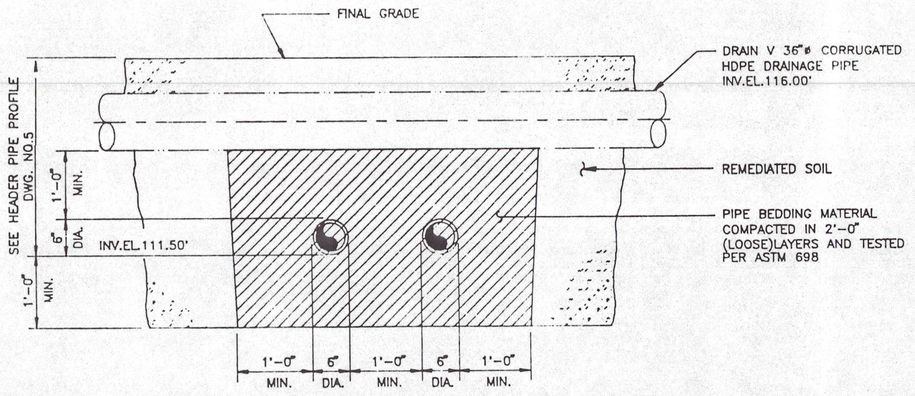
| | | | |
|---|---|---|---|
| | | EAST NORTHPORT LANDFILL TOWN OF HUNTINGTON, NY | HEADER PIPE SECTIONS |
| | | LANDFILL GAS INTERIM REMEDIAL PROGRAM | |



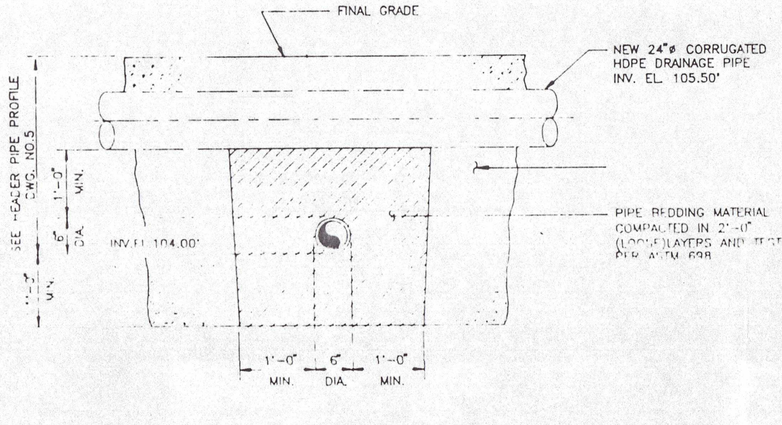

## HEADER PIPE SECTIONS (4 / 1 | 6)
N.T.S.



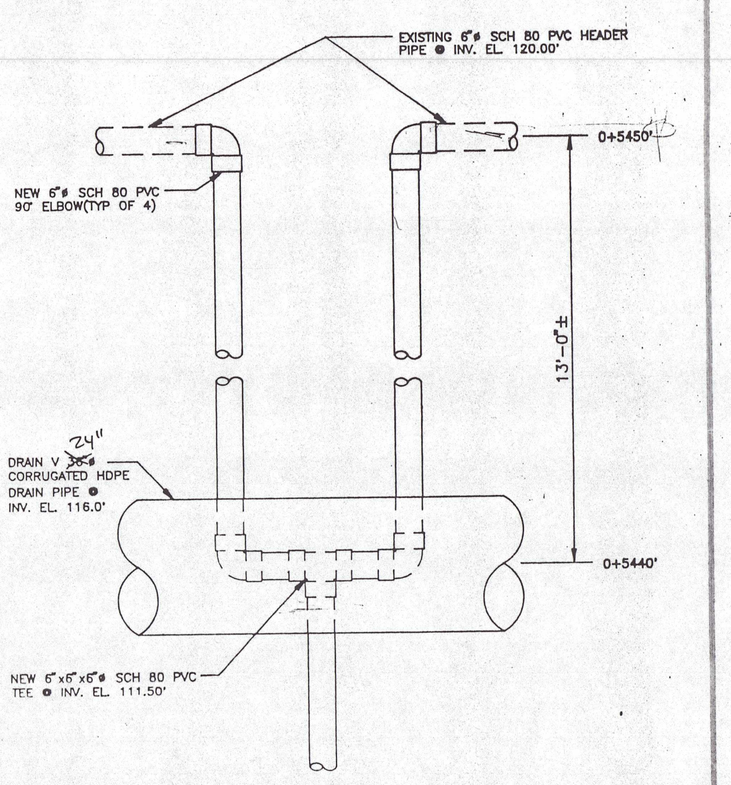

## HEADER PIPE SECTIONS (7 / 1 | 6)
N.T.S.



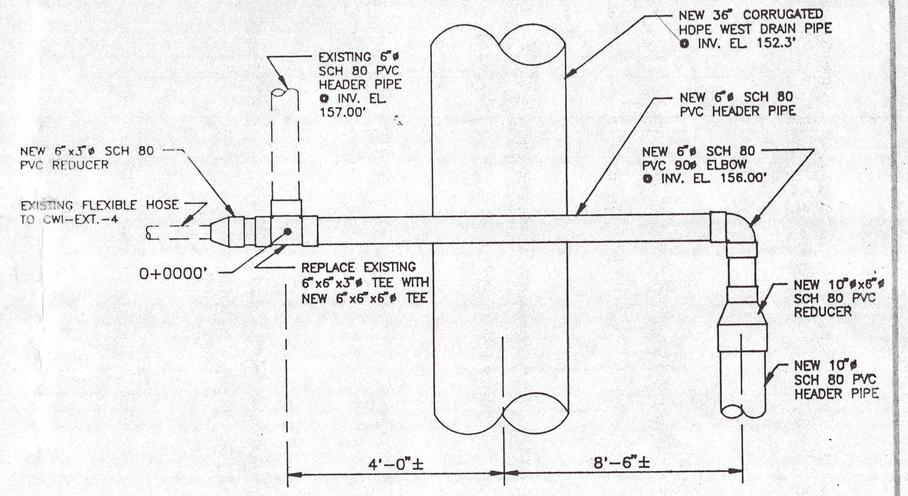

## HEADER PIPE SECTIONS (5 / 1 | 6)
N.T.S.



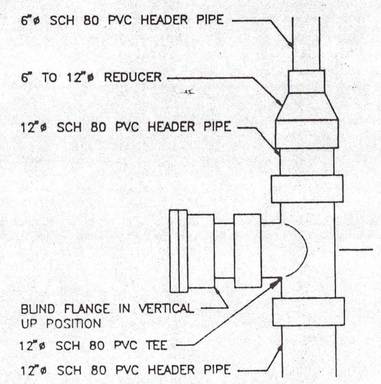

## HEADER PIPE SECTIONS (6 / 1 | 6)
N.T.S.



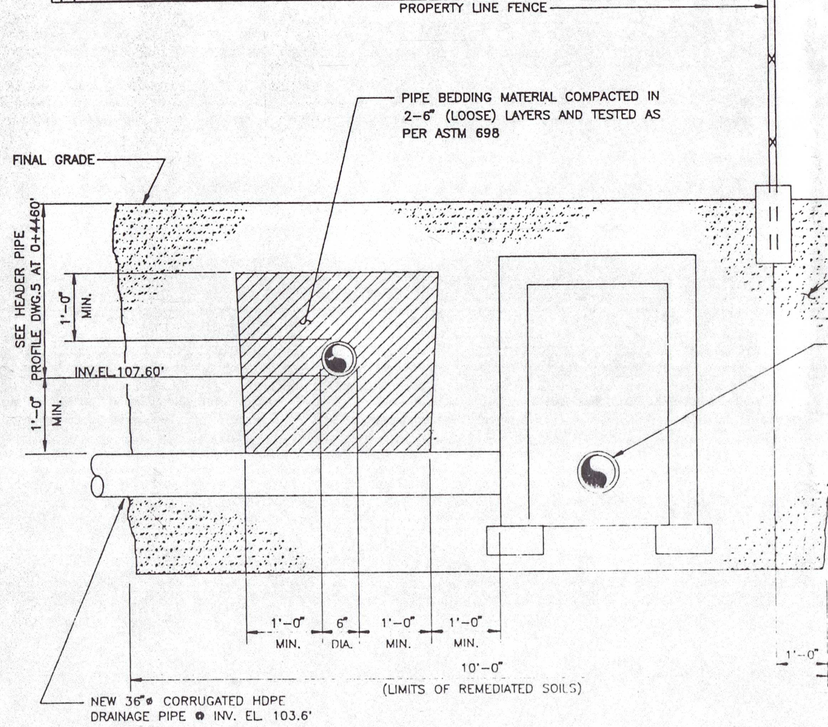

## EAST CONNECTION DETAIL
1/2"=1'-0"



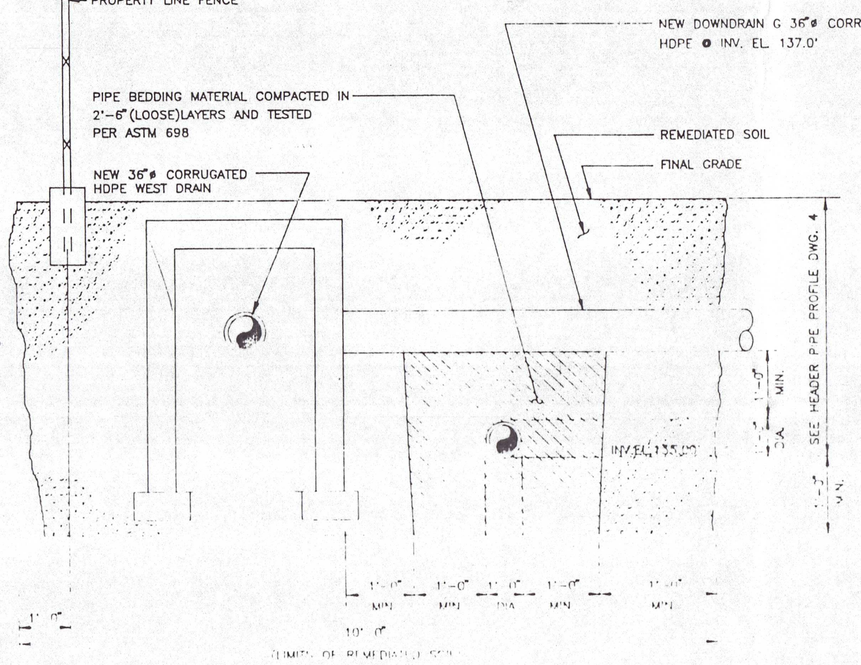

## WEST CONNECTION DETAIL
1/2"=1'-0"



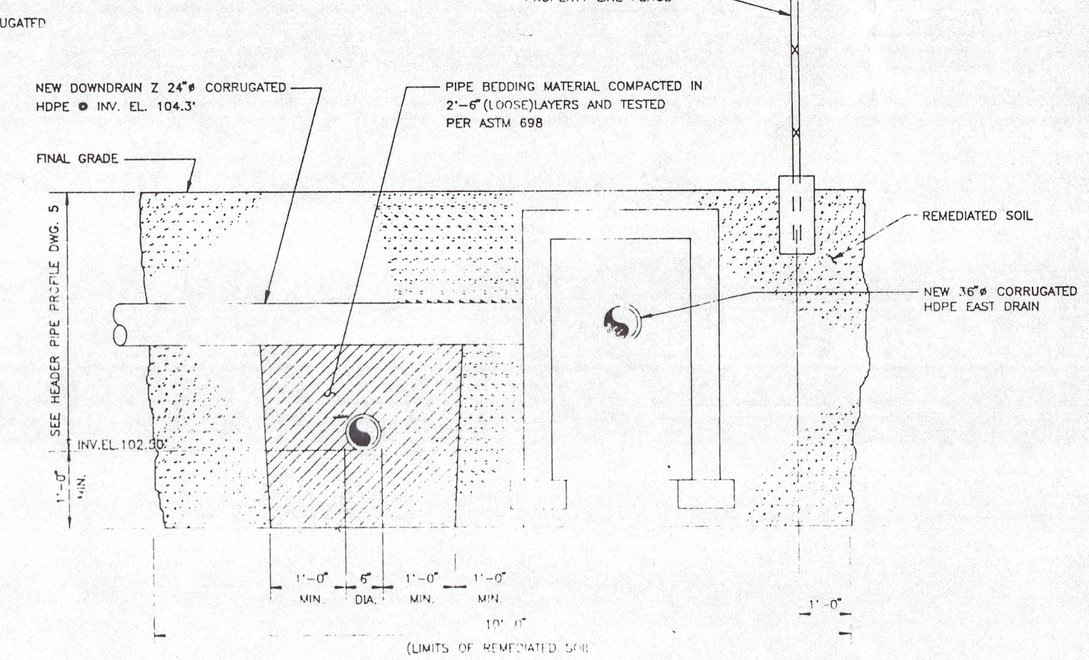

## FUTURE CONNECTION DETAIL
1/2"=1'-0"




## HEADER PIPE SECTION (1 / 1 | 6)
N.T.S.




## HEADER PIPE SECTION (2 / 2 | 6)
N.T.S.




## HEADER PIPE SECTION (3 / 2 | 6)
N.T.S.

## GENERAL NOTES:

1. ALL INFORMATION RELATING TO DRAINAGE SYSTEM IS INCLUDED IN THE FINAL LANDFILL CLOSURE DOCUMENTS.
2. THE CONTRACTOR SHALL INSTALL ALL NEW HEADER PIPING WITHIN THE LIMITS OF REMEDIATED SOILS.

PLOT: 1"=1'-0"
FILE NAME: 1122-BUR
DATE: 6-15-93

| NO. | DATE | REVISION | INT. |
|---|---|---|---|
| 1 | 2/93 | INCORPORATE NYSDEC COMMENTS | A.F.B. |

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| PROJECT ENGINEER: P.J.W. | DRAWN BY: A.F.B. |
| DESIGNED BY: A.F.B | CHECKED BY: |

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CONSULTING ENGINEERS

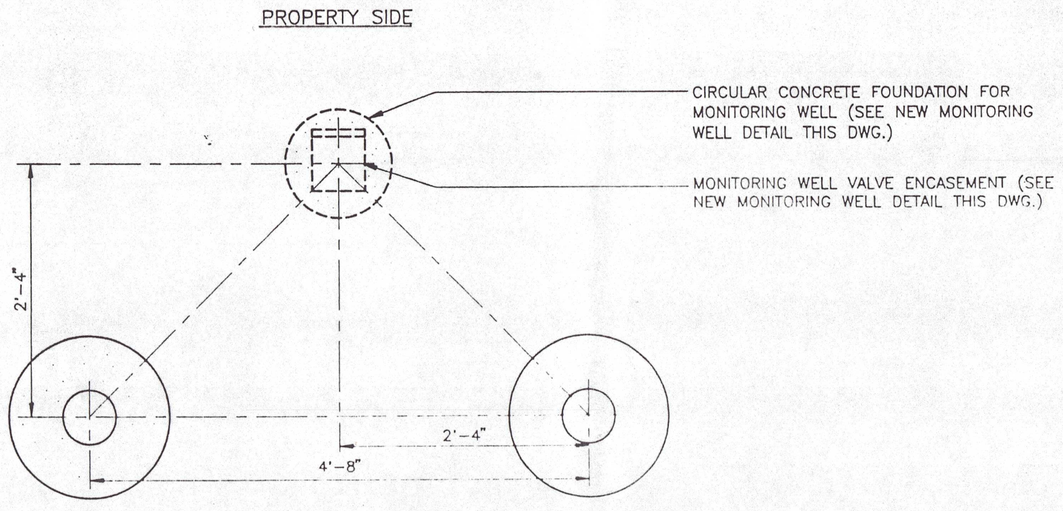
EAST NORTHPORT LANDFILL
TOWN OF HUNTINGTON, NEW YORK

LANDFILL GAS
INTERIM REMEDIAL PROGRAM

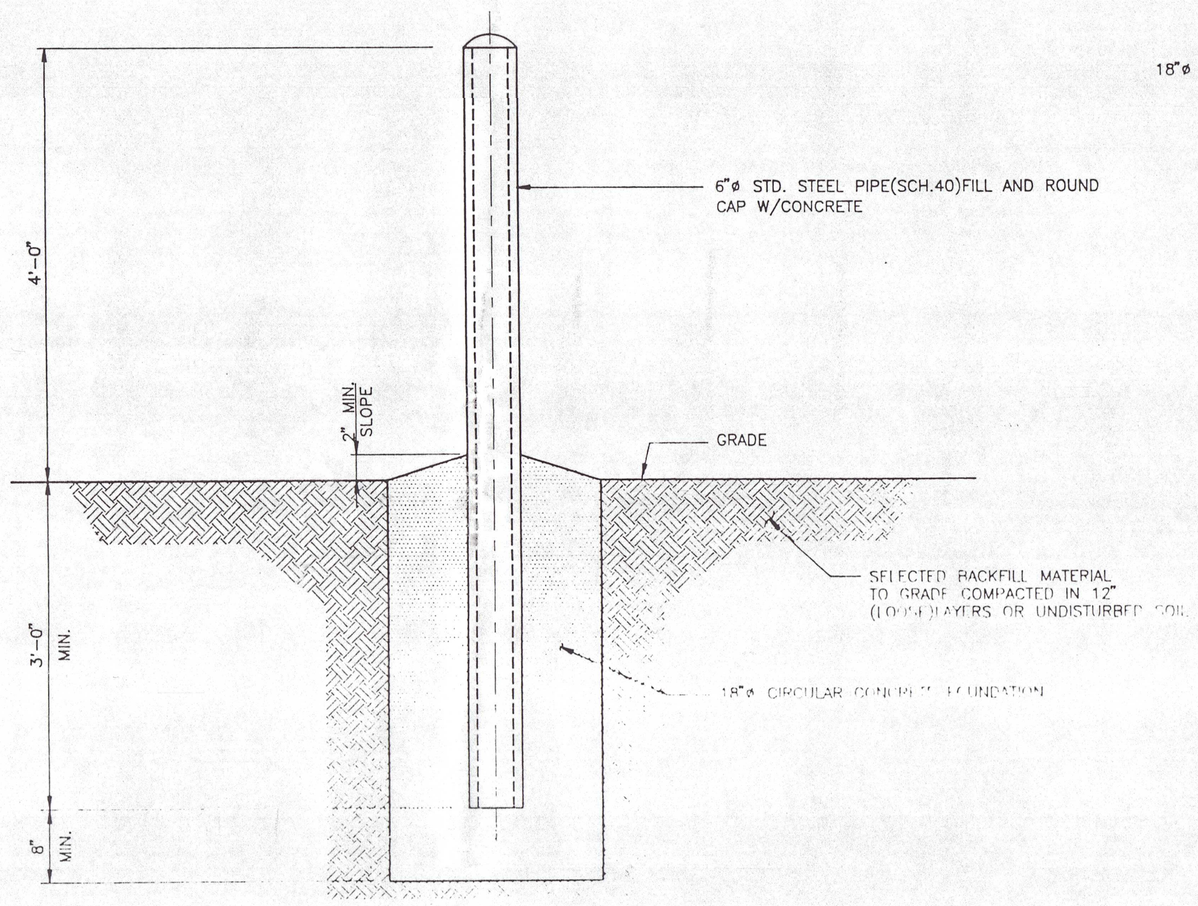
HEADER PIPE SECTIONS

| | |
|---|---|
| PROJECT NO. | 1122 |
| DATE: | JUNE, 1993 |
| SCALE: | NONE |
| DRAWING NO. | 6 |

DRAWING 6 OF 16

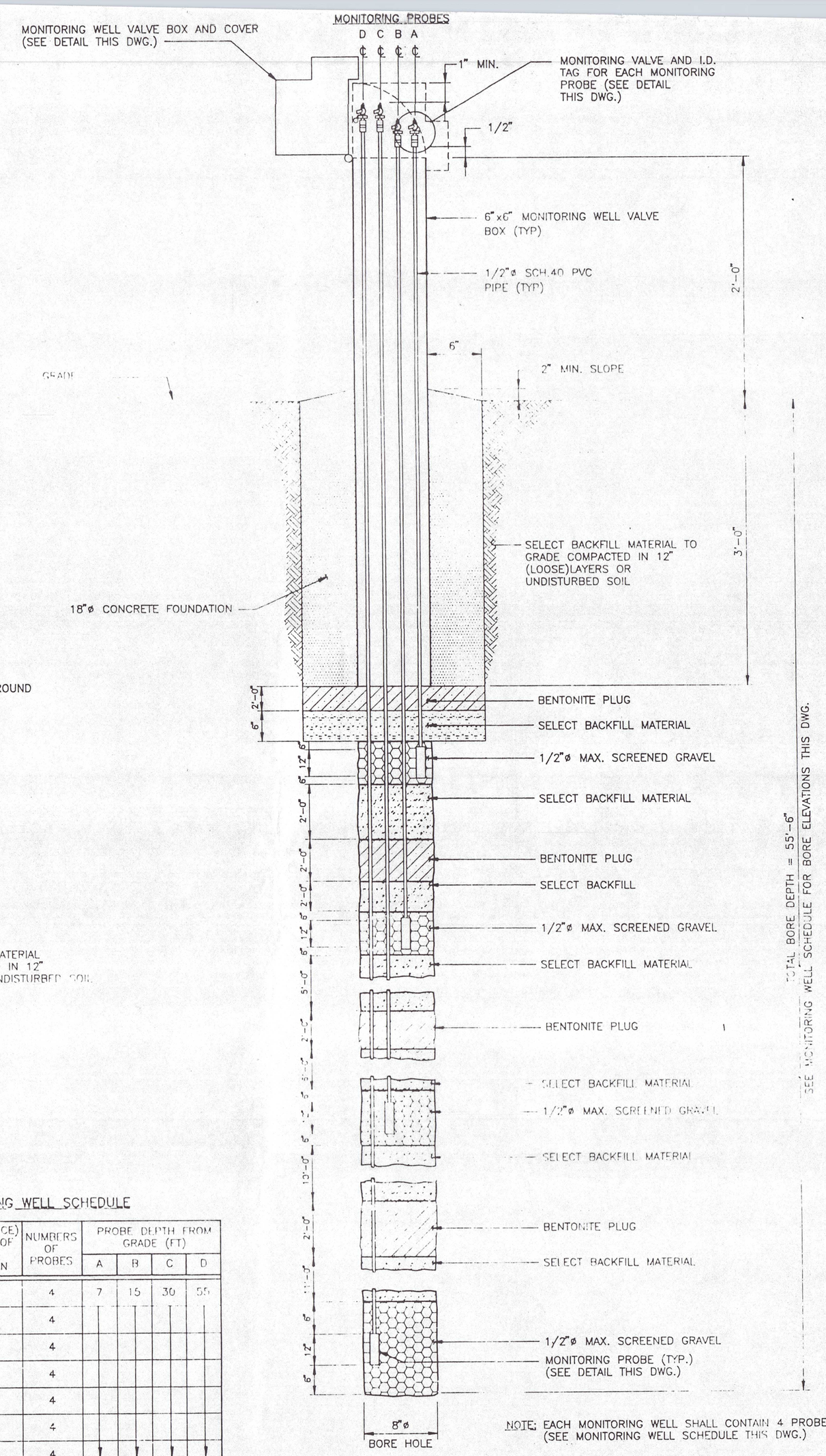



PLAN
N.T.S.




## BOLLARD DETAIL (TYPICAL)
N.T.S.

MONITORING WELLS MW-2 THROUGH MW-27 REQUIRED BOLLARDS



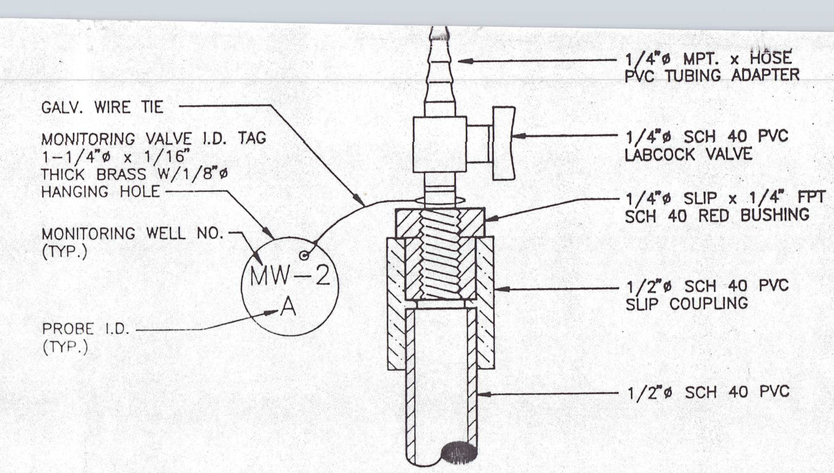

NOTE: EACH MONITORING WELL SHALL CONTAIN 4 PROBES (SEE MONITORING WELL SCHEDULE THIS DWG.)

## NEW MONITORING WELL SCHEDULE

| WELL NUMBER | GRADE ELEVATION | (REFERENCE) BOTTOM OF BORE ELEVATION | NUMBERS OF PROBES | PROBE DEPTH FROM GRADE (FT) | | | |
|---|---|---|---|---|---|---|---|
| | | | | A | B | C | D |
| MW-2 | 110.0 | 54.5 | 4 | 7 | 15 | 30 | 55 |
| MW-3 | 110.0 | 54.5 | 4 | | | | |
| MW-4 | 110.0 | 54.5 | 4 | | | | |
| MW-10 | 110.0 | 54.5 | 4 | | | | |
| MW-11 | 106.0 | 50.5 | 4 | | | | |
| MW-19 | 115.5 | 60.0 | 4 | | | | |
| MW-23 | 118.0 | 62.5 | 4 | | | | |

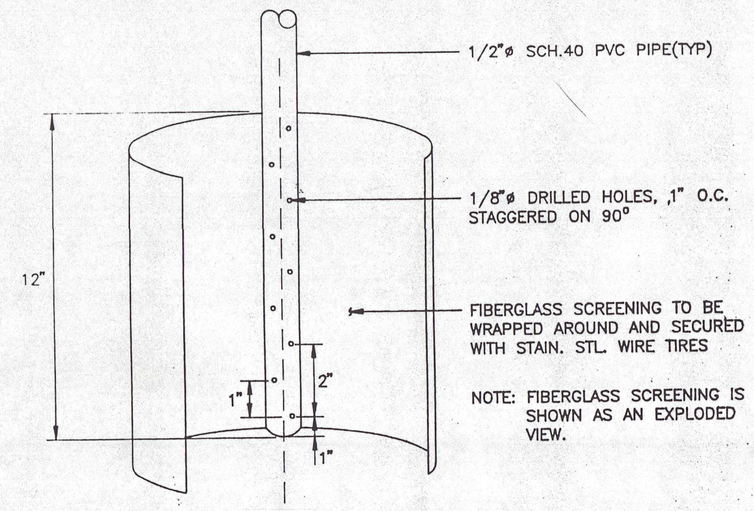
GRADE ELEVATION SHOWN(±)(CONTRACTOR TO VERIFY)

## NEW MONITORING WELL DETAIL
NTS

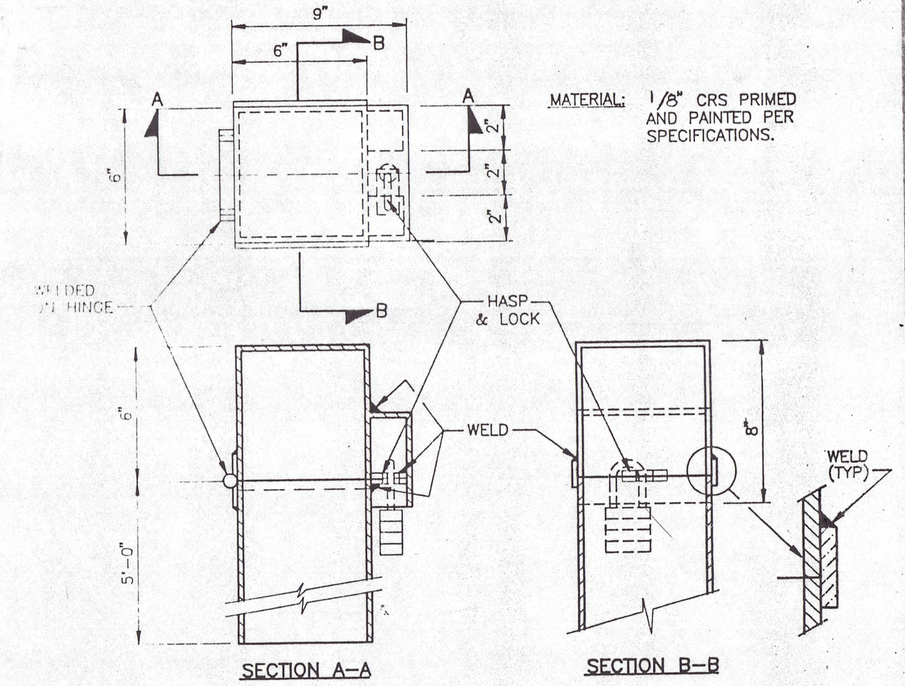



## MONITORING VALVE DETAIL
NTS
(TYPICAL FOR ALL NEW MONITORING WELLS)

NOTE:
1. GREASE ALL THREADED PIPING FITTINGS PRIOR TO INSTALLATION.




## MONITORING PROBE DETAIL
NTS
(TYPICAL FOR ALL NEW MONITORING WELLS)




## MONITORING WELL VALVE BOX AND COVER DETAIL
NTS
(TYPICAL FOR ALL NEW & EXISTING MONITORING WELLS)

PLOT: 1"=1'-0"
FILE NAME: 1122-MW
DATE: 6-14-93

| NO. | DATE | REVISION | INT. |
|---|---|---|---|
| 1 | 2/93 | INCORPORATE NYSDEC'S COMMENTS | A.F.B. |

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|---|---|
| P.J.W. | A.F.B. |
| DESIGNED BY: | CHECKED BY: |
| M.P.R. | |

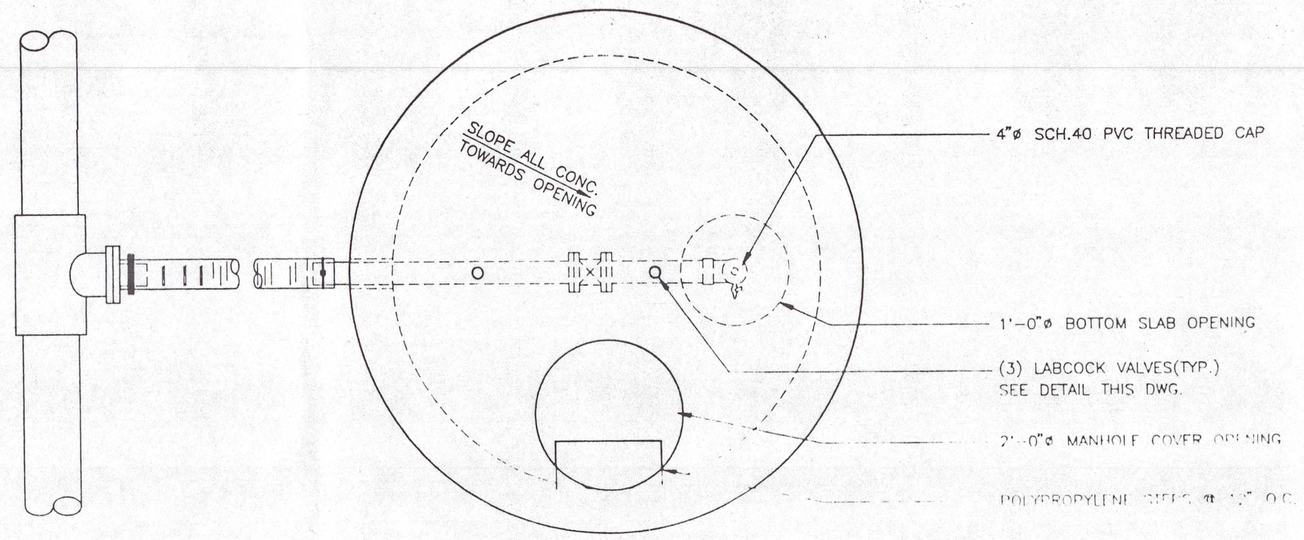
DVIRKA AND BARTILUCCI
CONSULTING ENGINEERS

EAST NORTHPORT LANDFILL
TOWN OF HUNTINGTON, NEW YORK

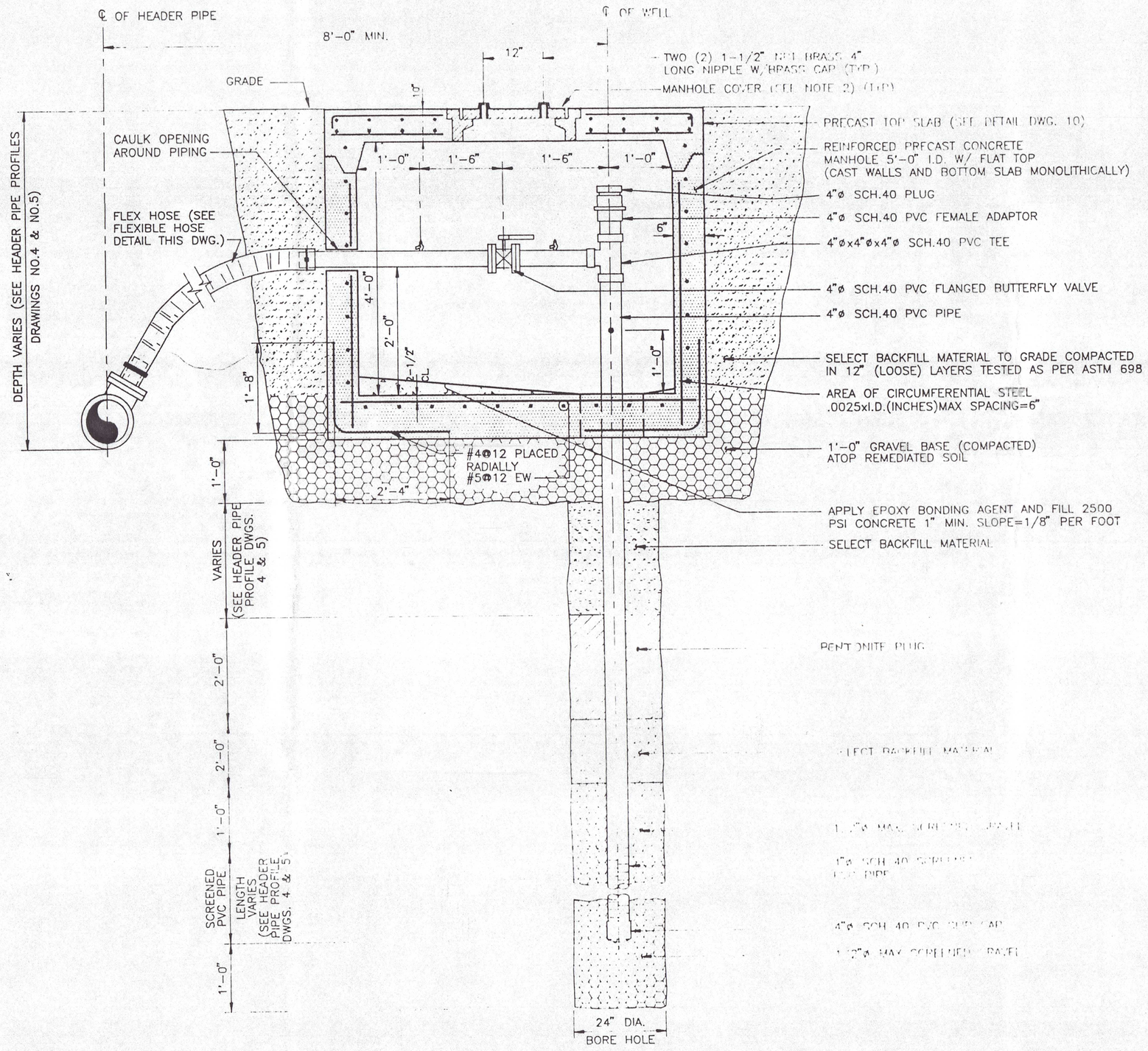
LANDFILL GAS
INTERIM REMEDIAL PROGRAM

NEW MONITORING WELLS AND BOLLARD DETAILS

| PROJECT NO. | DRAWING NO. |
|---|---|
| 1122 | 7 |
| DATE: JUNE, 1993 | DRAWING 7 OF 16 |
| SCALE: AS NOTED | |



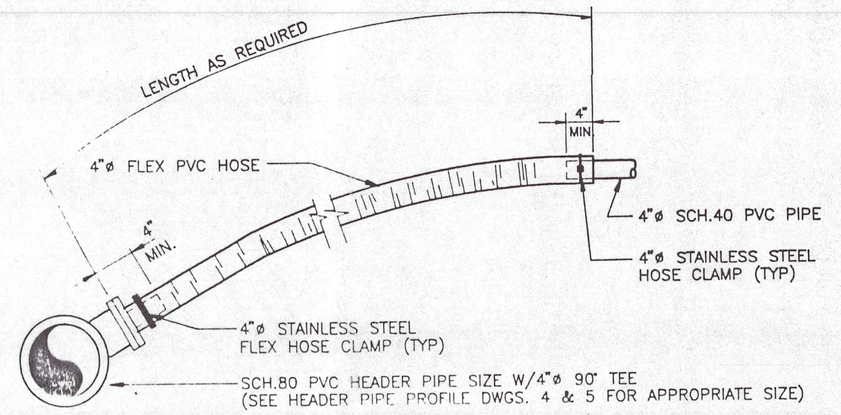

PLAN
NTS




SECTION

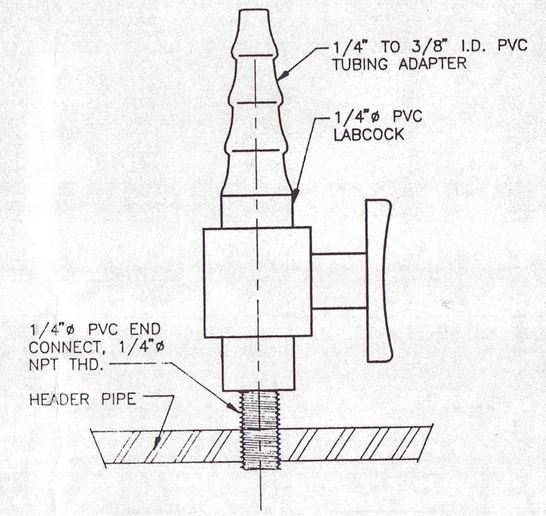
## NEW COLLECTION WELL DETAIL

NTS




## FLEXIBLE HOSE CONNECTION DETAIL

NTS




## TYPICAL LABCOCK DETAIL

NTS

NOTES:
1. GREASE ALL THREADED PIPING FITTINGS PRIOR TO INSTALLATION
2. ALL MANHOLE COVERS AND FRAMES SHALL BE SUITABLE TO ACCOMODATE H20 LOADING AND SHALL BE INSTALLED INTO CONCRETE MANHOLE TOP BY MANUFACTURER DURING CASTING OF THE TOP.
3. THE CONTRACTOR MUST VERIFY ALL EXISTING FIELD CONDITIONS AND GRADE ELEVATIONS PRIOR TO COMMENCING CONSTRUCTION ACTIVITIES.

PLOT: 1"=1'-0"
FILE NAME: 1122-150
DATE: 6-14-93

| NO. | DATE | REVISION | INT. |
|---|---|---|---|
| 1 | 2/93 | INCORPORATE NYSDEC COMMENTS | A.F.B. |

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| DESIGNED BY: | CHECKED BY: |
| M.P.R. | |

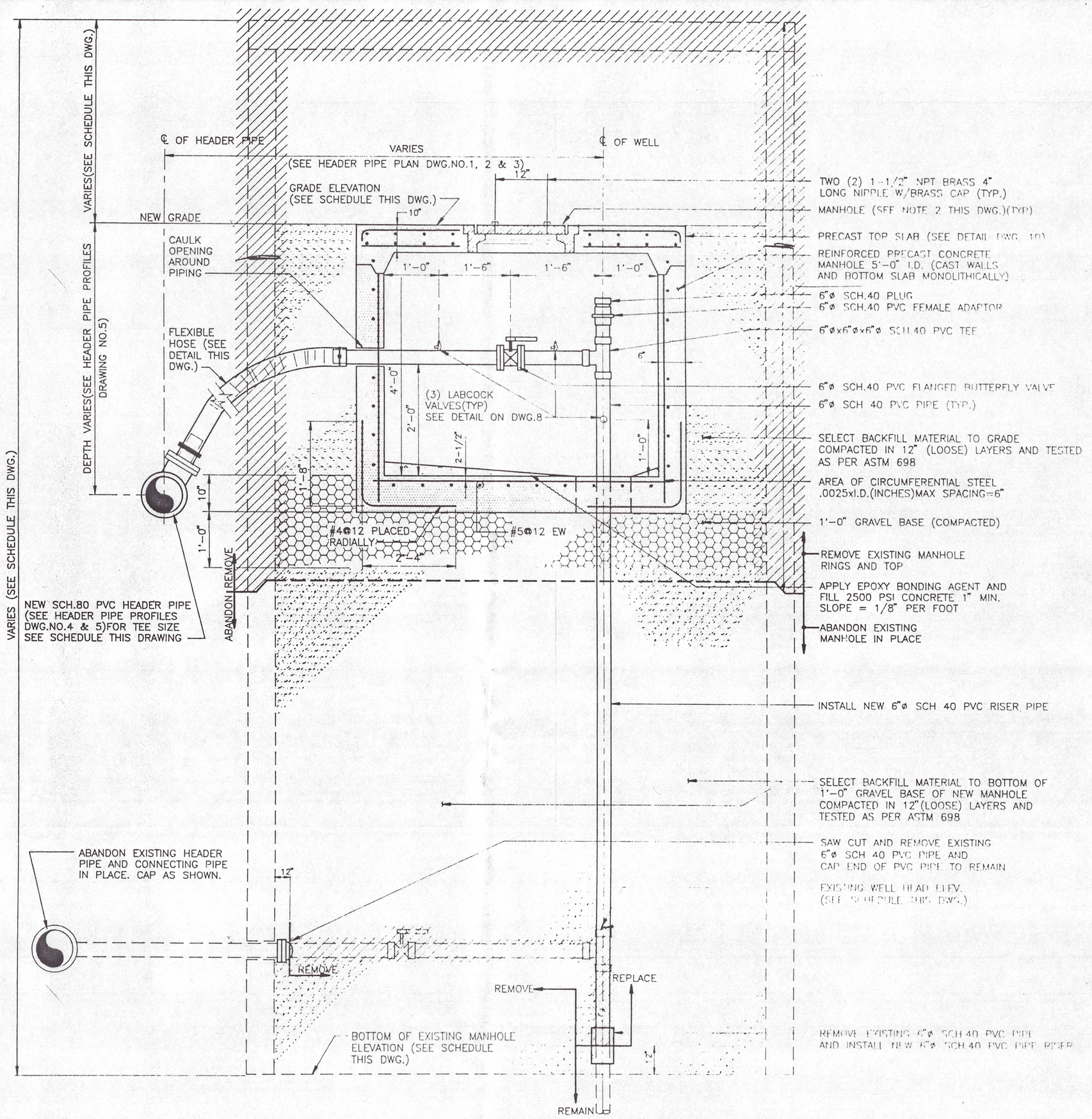
DVIRKA AND BARTILUCCI
CONSULTING ENGINEERS

EAST NORTHPORT LANDFILL
TOWN OF HUNTINGTON, NY

LANDFILL GAS
INTERIM REMEDIAL PROGRAM

# NEW COLLECTION WELL AND MANHOLE DETAILS

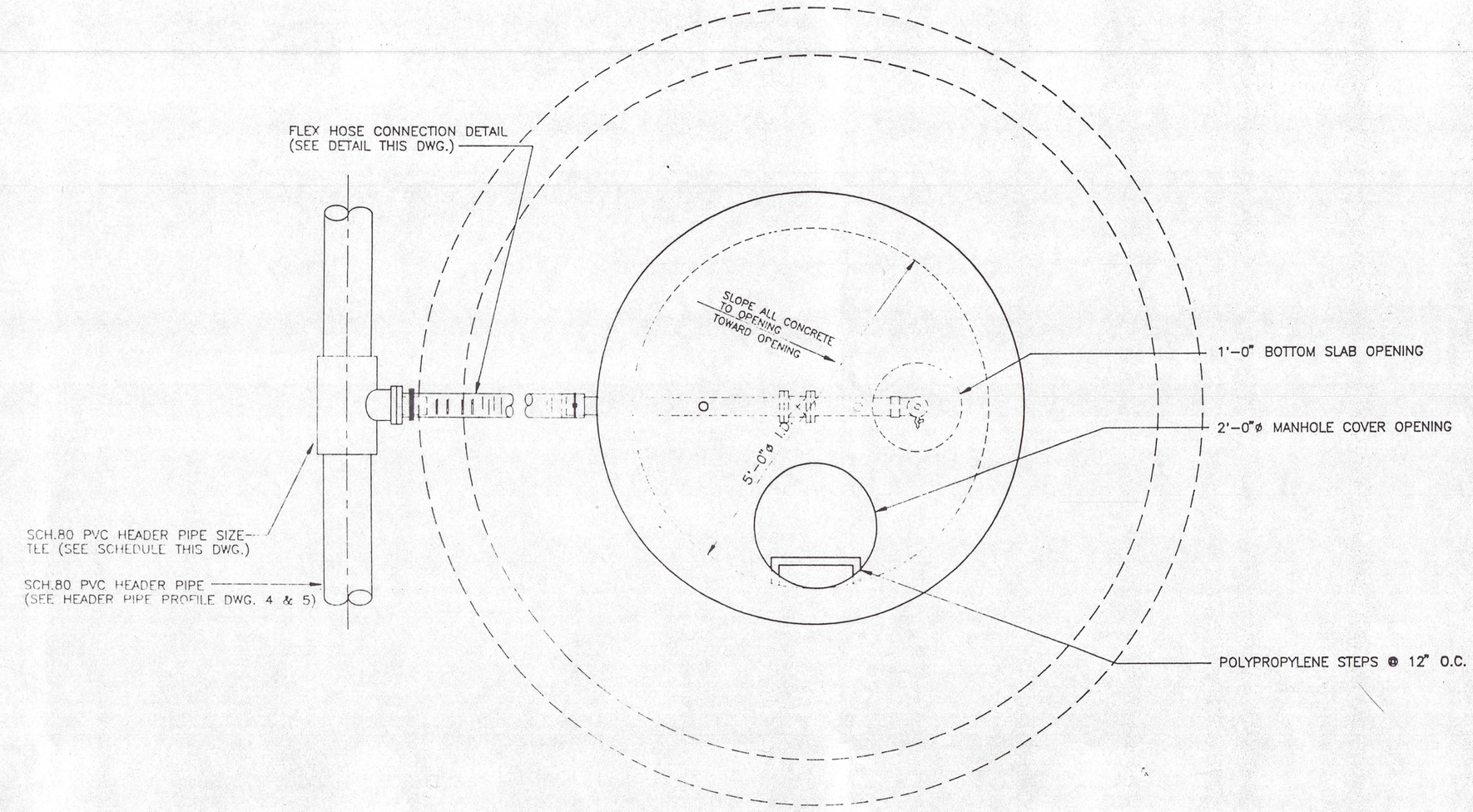
| PROJECT NO. | DRAWING NO. |
|---|---|
| 1122 | 8 |
| DATE: MARCH, 1993 | DRAWING 8 OF 16 |
| SCALE: AS NOTED | |



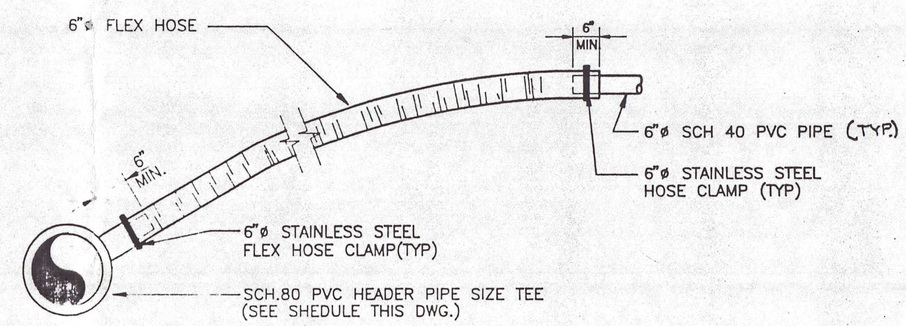

SECTION

## EXISTING COLLECTION WELL MODIFICATION DETAIL

(NTS)




PLAN




## FLEXIBLE HOSE CONNECTION DETAIL

NTS

EXISTING COLLECTION WELL SCHEDULE

| WELL NUMBER | REF. NEW WELL GRADE ELEVATION | TOP OF EXISTING MANHOLE ELEVATION | BOT. OF EXISTING MANHOLE ELEVATION | EXISTING WELL HEAD ELEVATION | HEADER PIPE TEE SIZE |
|---|---|---|---|---|---|
| CWI-4 | 134' | 138' | 128.5' | 131.5' | 14"x14"x6" |
| CWI-5 | 120' | 126' | 118' | 119' | 14"x14"x6" |
| CWI-6 | 118' | 124' | 110.5' | 115' | 14"x14"x6" |
| CWI-7 | 116' | 119.5' | 110.5' | 112.5' | 14"x14"x6" |
| CWII-1 | 115' | 121.5' | 111' | 115.5' | 14"x14"x6" |
| CWII-2 | 113' | 116.5' | 106.5 | 111' | 14"x14"x6" |
| CWII-3 | 112' | 110' | 104' | 105.5' | 12"x12"x6" |
| CWII-4 | 110' | 112' | 102.5' | 106.5' | 12"x12"x6" |
| CWII-5 | 110' | 114' | 105' | 108' | 12"x12"x6" |
| CWII-6 | 111' | 114' | 104' | 107.5' | 6"x6"x6" |
| CWII-7 | 112' | 115.5' | 102' | 105.5' | 6"x6"x6" |
| CWII-8 | 113' | 120' | 106' | 109.5' | 6"x6"x6" |
| CWII-9 | 112' | 116.5' | 103.5 | 106' | 6"x6"x6" |

6/21
6/21

ALL GRADE ELEVATIONS SHOWN(±)(CONTRACTOR TO VERIFY EXISTING GRADE)

NOTES:

1. GREASE ALL THREADED PIPING FITTINGS PRIOR TO INSTALLATION
2. ALL MANHOLE COVERS AND FRAMES SHALL BE SUITABLE TO ACCOMODATE H20 LOADING AND SHALL BE INSTALLED INTO CONCRETE MANHOLE TOP BY MANUFACTURER DURING CASTING OF THE TOP.
3. THE CONTRACTOR MUST VERIFY ALL EXISTING FIELD CONDITIONS AND GRADE ELEVATIONS PRIOR TO COMMENCING CONSTRUCTION ACTIVITIES.

PLOT:1"=1'-0"
DIRECTORY: 1122
FILE NAME:REWELL
DATE:1.MOD/6-8-93

| NO. | DATE | REVISION | INT. |
|---|---|---|---|
| 1 | 2/93 | INCORPORATE NYSDEC COMMENTS | A.F.B. |

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|---|---|
| P.J.W. | A.F.B. |
| DESIGNED BY: | CHECKED BY: |
| M.P.R. | |

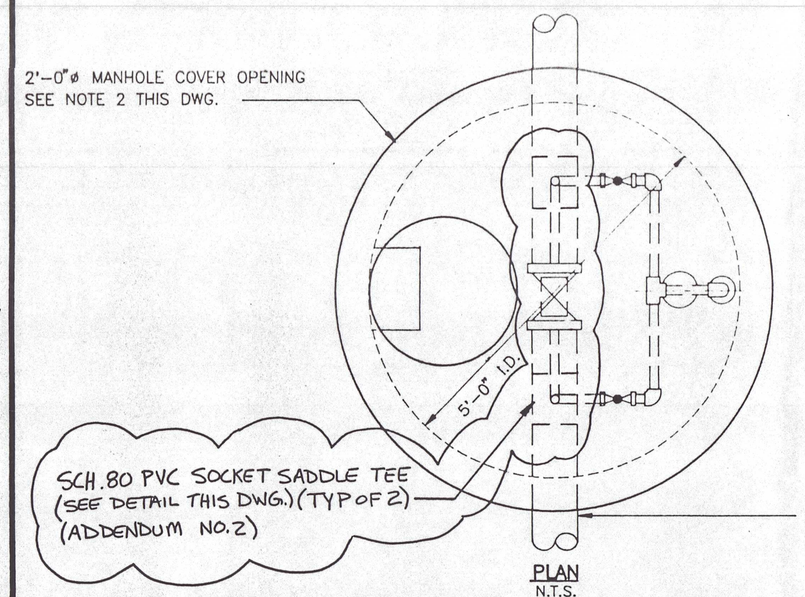
DVIRKA AND BARTILUCCI
CONSULTING ENGINEERS

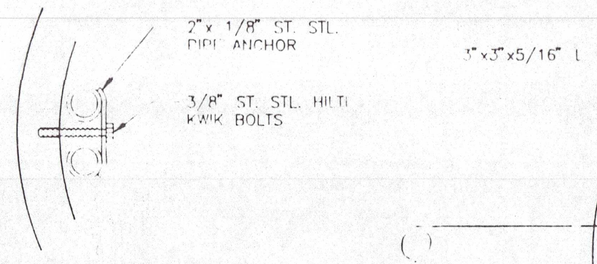
EAST NORTHPORT LANDFILL
TOWN OF HUNTINGTON, NEW YORK

LANDFILL GAS
INTERIM REMEDIAL PROGRAM

MODIFICATIONS OF
EXISTING COLLECTION WELLS

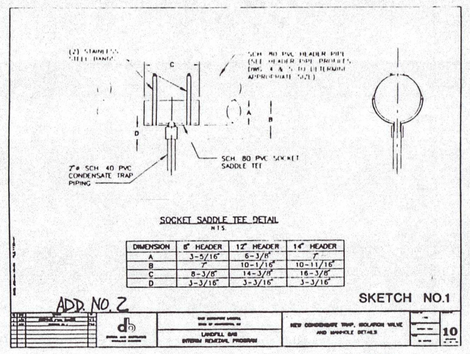
| PROJECT NO. | DRAWING NO. |
|---|---|
| 1122 | 9 |
| DATE: MARCH, 1993 | DRAWING 9 OF 16 |
| SCALE: AS NOTED | |

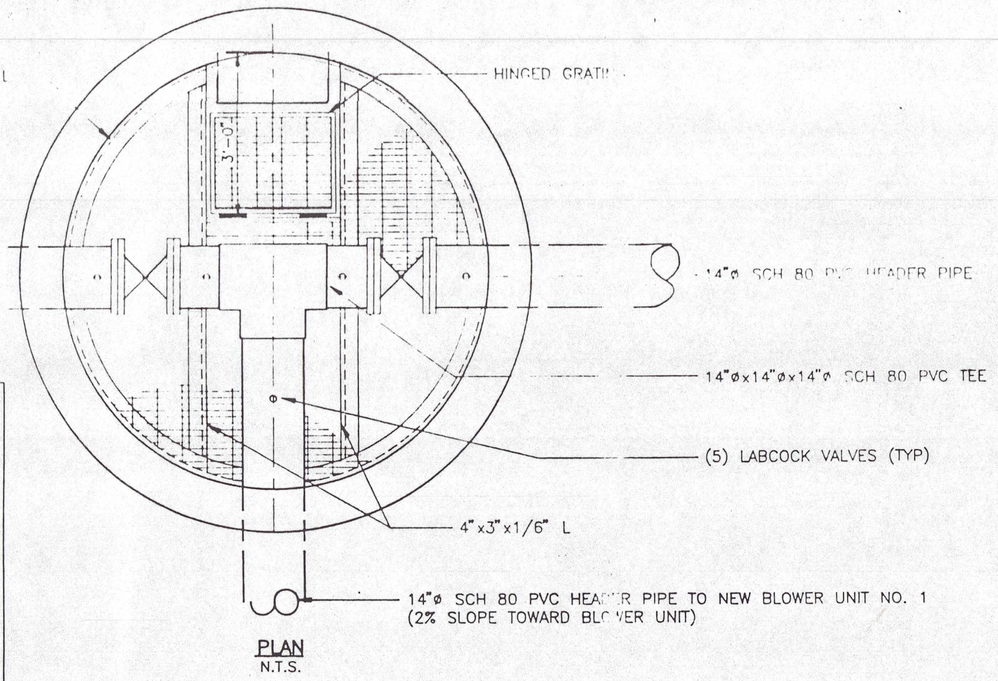


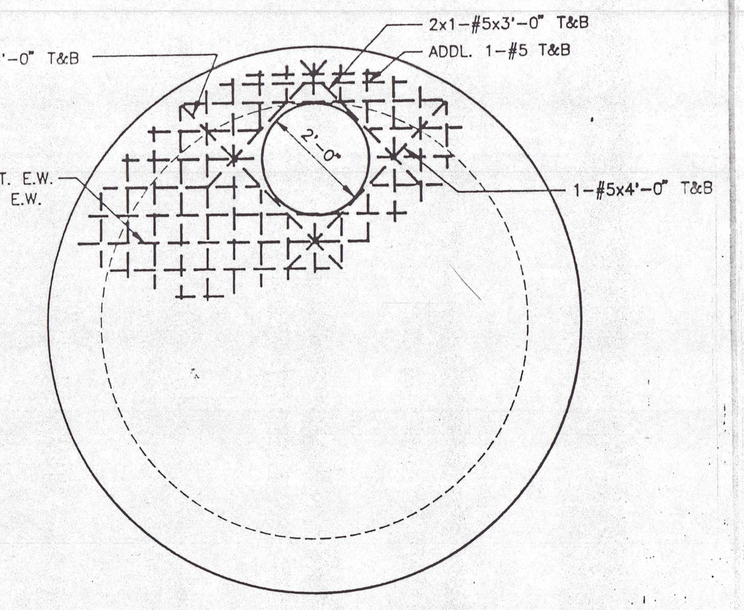




## CONDENSTATE PIPE SUPPORT BRACKET DETAIL

N.T.S.

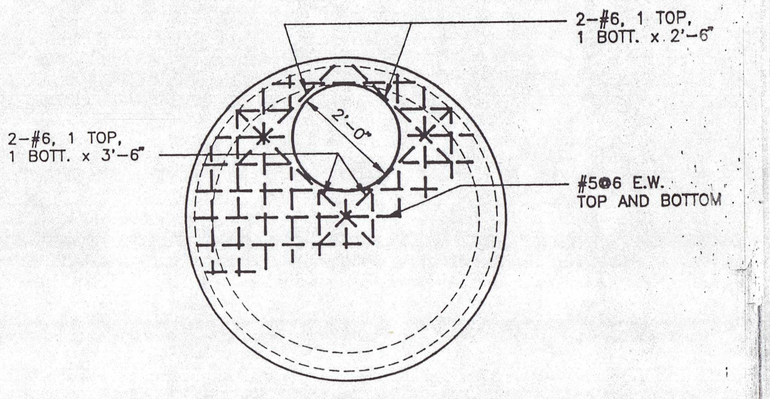


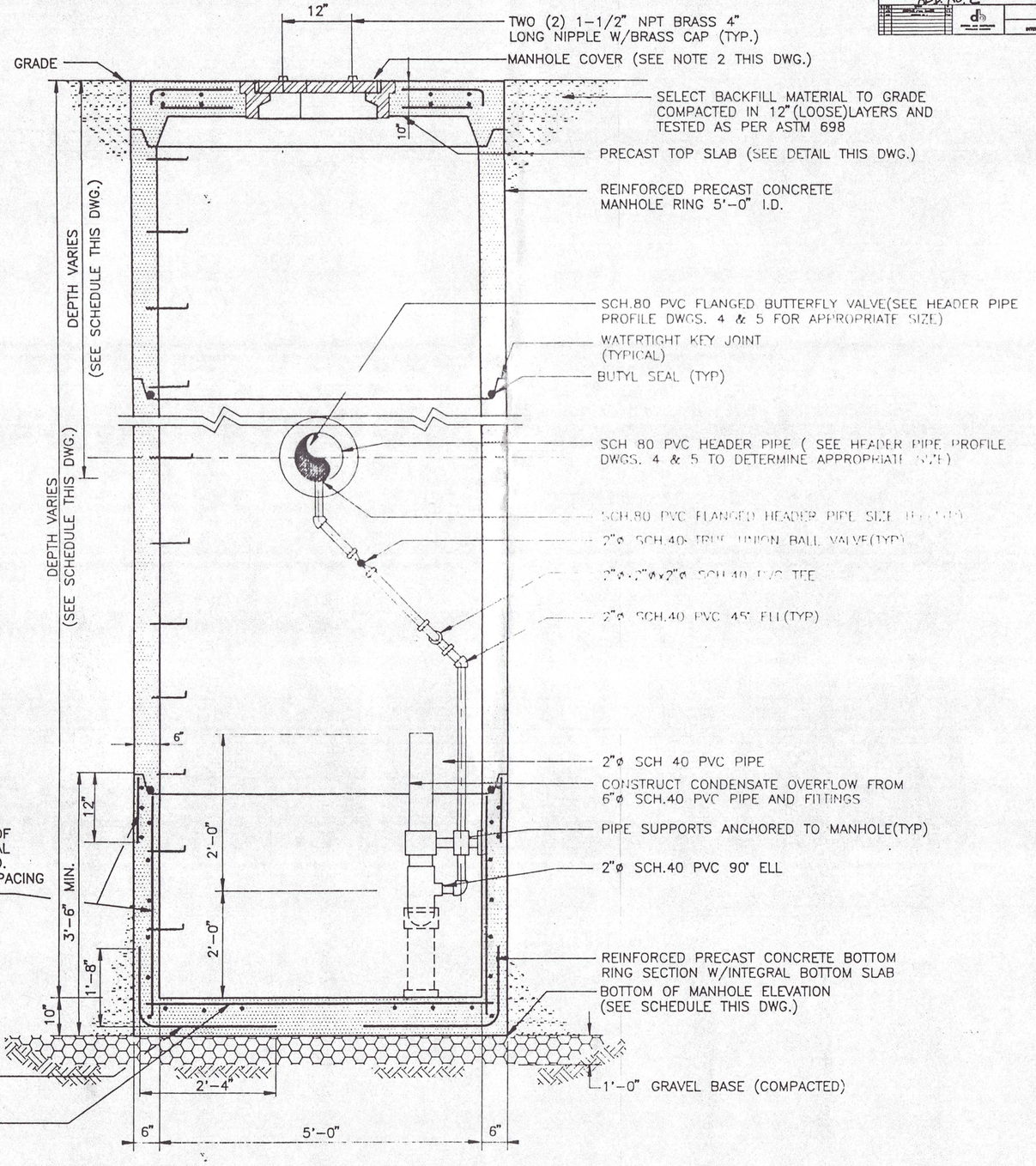

## PRECAST TOP SLAB 8'-0" MANHOLE DETAIL

1/2"=1'-0"



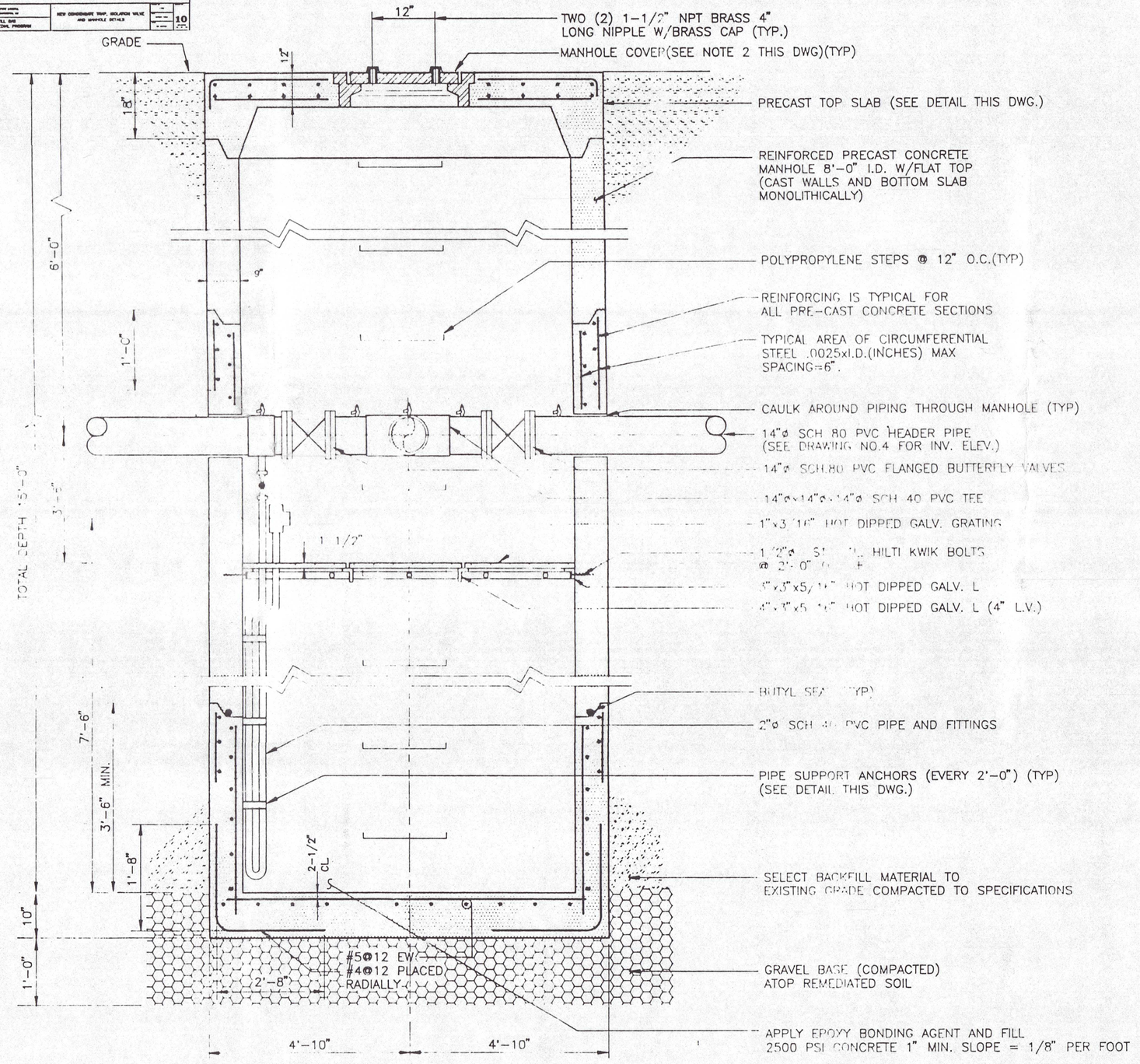

## PRECAST TOP SLAB 5'-0" MANHOLE DETAIL

1/2" = 1'




## CONDENSATE TRAP & ISOLATION VALVE MANHOLE CD-1, 3, 4 & 5 DETAIL

N.T.S.




## CONDENSATE TRAP AND MANHOLE CD-2 DETAIL

N.T.S.

### CONDENSATE TRAP MANHOLE SCHEDULE

| MANHOLE NUMBER | REF. NEW MANHOLE GRADE ELEVATION | BOTTOM OF MANHOLE ELEVATION | TOTAL MANHOLE DEPTH | HEADER PIPE INV. EL. |
|---|---|---|---|---|
| CD – 1 | 136' | 122' | 14' | 132' |
| CD – 2 | 144' | 129' | 15' | 138' |
| CD – 3 | 115' | 100' | 15' | 109' |
| CD – 4 | 110' | 93' | 17' | 102' |
| CD – 5 | 112' | 91.5' | 20.5' | 100.5' |

(ALL GRADE ELEVATIONS SHOWN (±))

**NOTES:**

1. GREASE ALL THREADED PIPING FITTINGS PRIOR TO INSTALLATION.
2. ALL MANHOLE COVERS AND FRAMES SHALL BE SUITABLE TO ACCOMODATE H20 LOADING AND SHALL BE INSTALLED INTO CONCRETE MANHOLE TOP BY MANUFACTURER DURING CASTING OF THE TOP.
3. THE CONTRACTOR MUST VERIFY ALL EXISTING FIELD CONDITIONS AND GRADE ELEVATIONS PRIOR TO COMMENCING CONSTRUCTION ACTIVITIES.
4. ALL RINGS AND TOPS TO BE WATERTIGHT WITH BUTYL RUBBER RINGS.

PLOT: 1"=1'-0"
DIRECTORY: 1122
FILE NAME: 1122-CD
DATE: 5-15-93

| NO. | DATE | REVISION | INT. |
|---|---|---|---|
| 1 | 2/93 | INCORPORATE NYSDEC COMMENTS | A.F.B. |

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| REVIEWED BY | APPROVED BY |
| M.P.R. | |

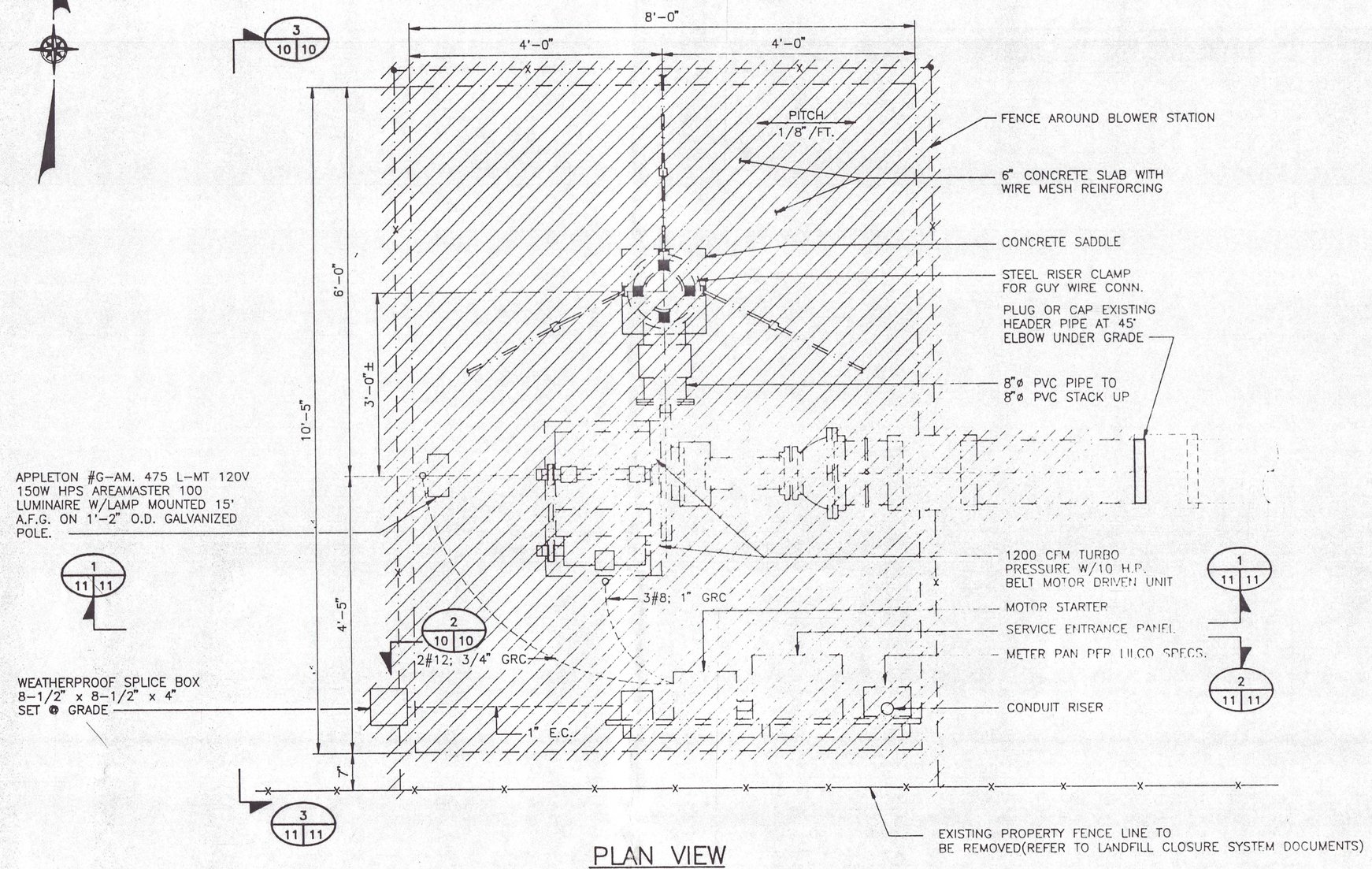
DVIRKA AND BARTILUCCI CONSULTING ENGINEERS

EAST NORTHPORT LANDFILL
TOWN OF HUNTINGTON, NY

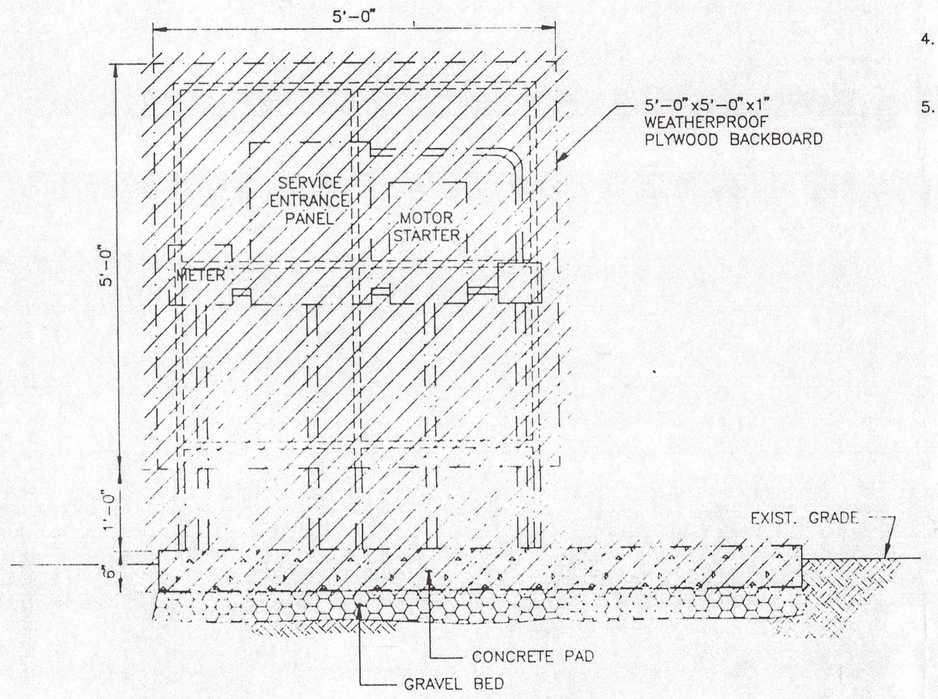
LANDFILL GAS
INTERIM REMEDIAL PROGRAM

NEW CONDENSATE TRAP, ISOLATION VALVE AND MANHOLE DETAILS

PROJECT NO. 1122
DATE: MARCH 1993
SCALE: AS NOTED
DRAWING NO. 10
DRAWING 10 OF 16



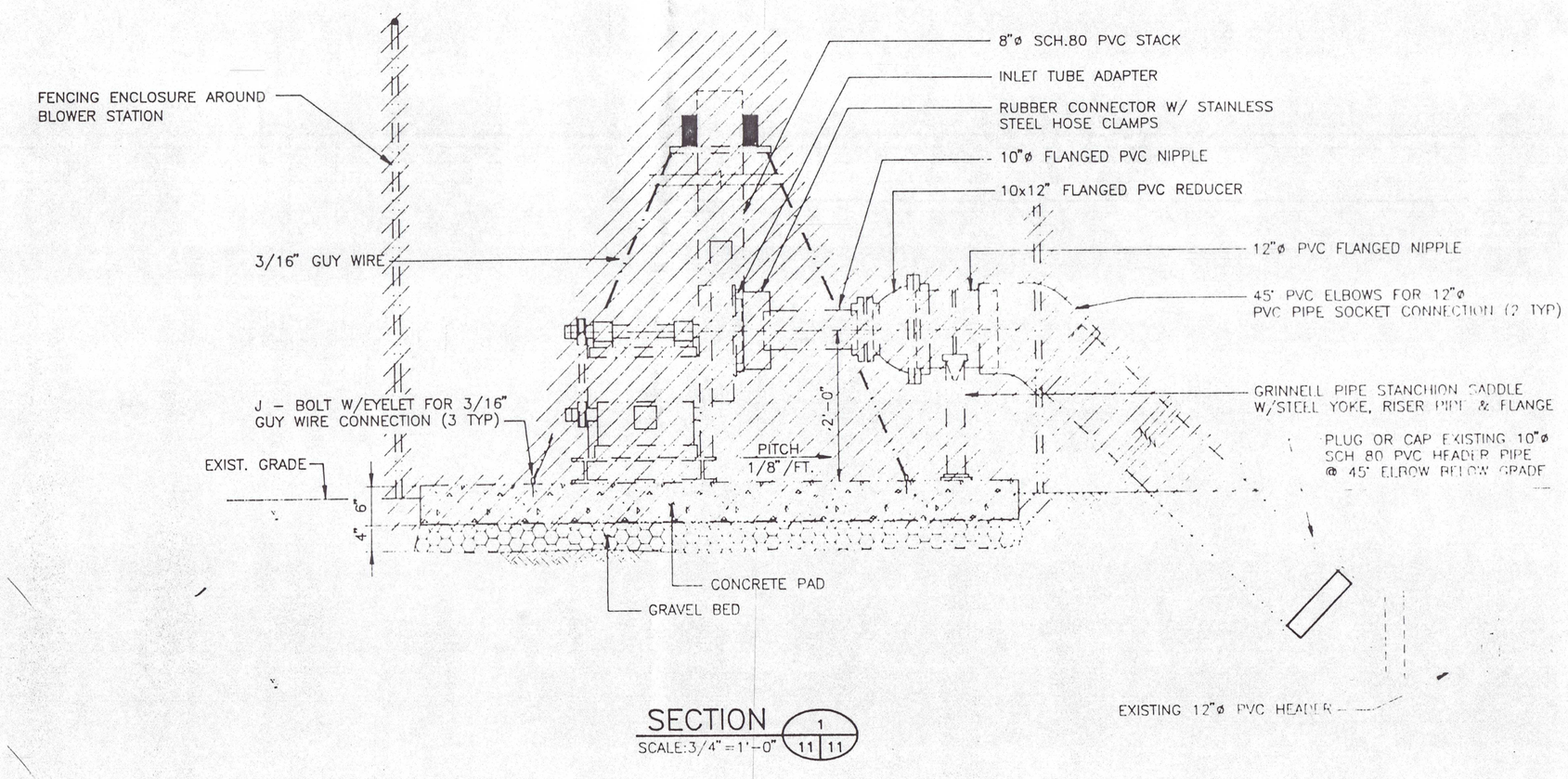

PLAN VIEW
SCALE:3/4"=1'-0"



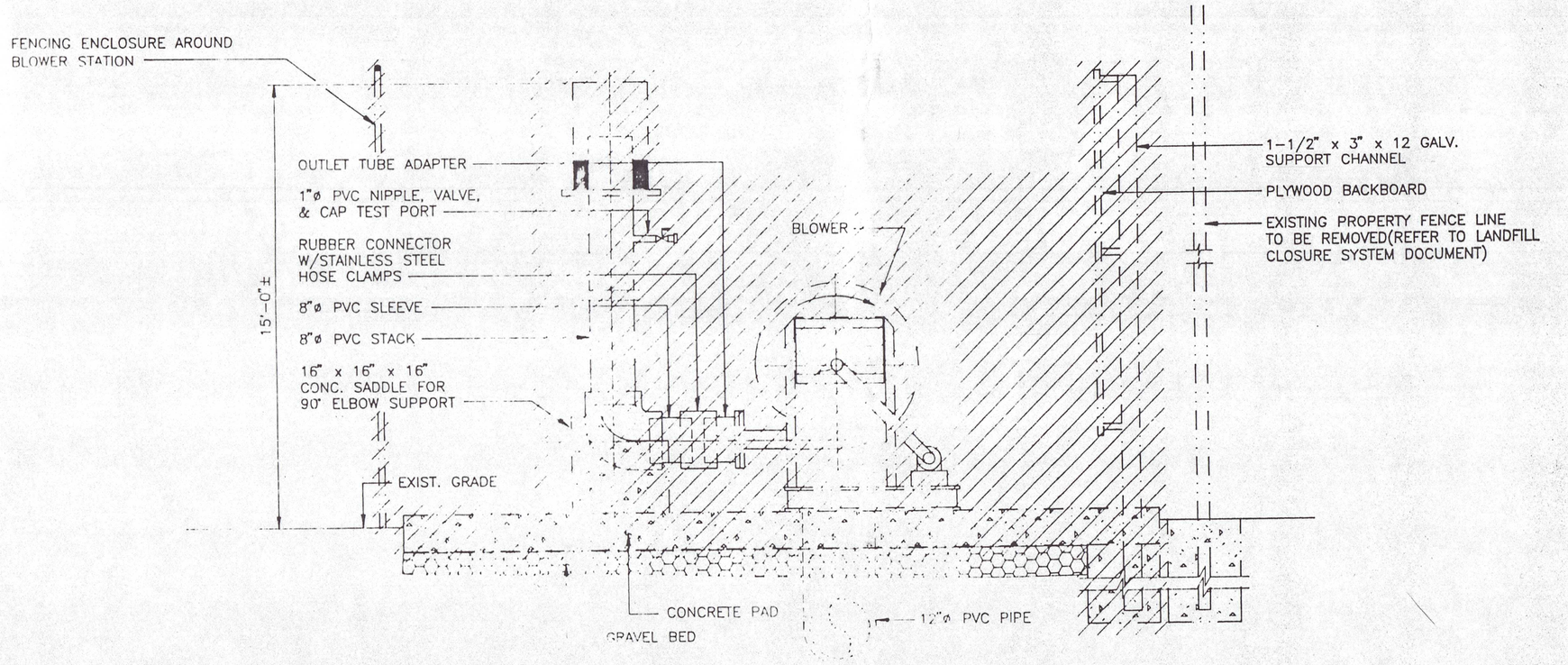

SECTION
SCALE:3/4"=1'-0"

## GENERAL NOTES:

1. REMOVE EXISTING COLLECTION UNIT 1 BLOWER STATION IN ITS ENTIRETY INCLUDING ALL RELATED ABOVE GROUND PIPING, FITTINGS, REINFORCED CONCRETE PAD, FENCING ENCLOSURE AND APPURTENANCES.
2. ALL ELECTRICAL EQUIPMENT SHALL BE DISCONNECTED AND REMOVED.
3. THE CONTRACTOR MUST VERIFY ALL EXISTING FIELD CONDITIONS AND GRADE ELEVATIONS PRIOR TO COMMENCING CONSTRUCTION ACTIVITIES.
4. BLOWER AND MOTOR ASSEMBLY SHOULD BE CAREFULLY REMOVED, GREASED AND WRAPPED IN PROTECTIVE PLASTIC SHEET OR TARP, AND PREPARED FOR REMOVAL BY THE TOWN.
5. SITE SHALL BE GRADED TO ELEVATIONS SHOWN ON THESE CONTRACT DRAWINGS.




SECTION
SCALE:3/4"=1'-0"




SECTION
SCALE:3/4"=1'-0"

DIRECTORY:1122
FILE NAME:BLOWER-1
T.MCC/4-7-93

| NO. | DATE | REVISION | INT. |
|---|---|---|---|
| | | | |

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|---|---|
| DESIGNED BY: M.P.R. | CHECKED BY: |

DVIRKA AND BARTILUCCI
CONSULTING ENGINEERS

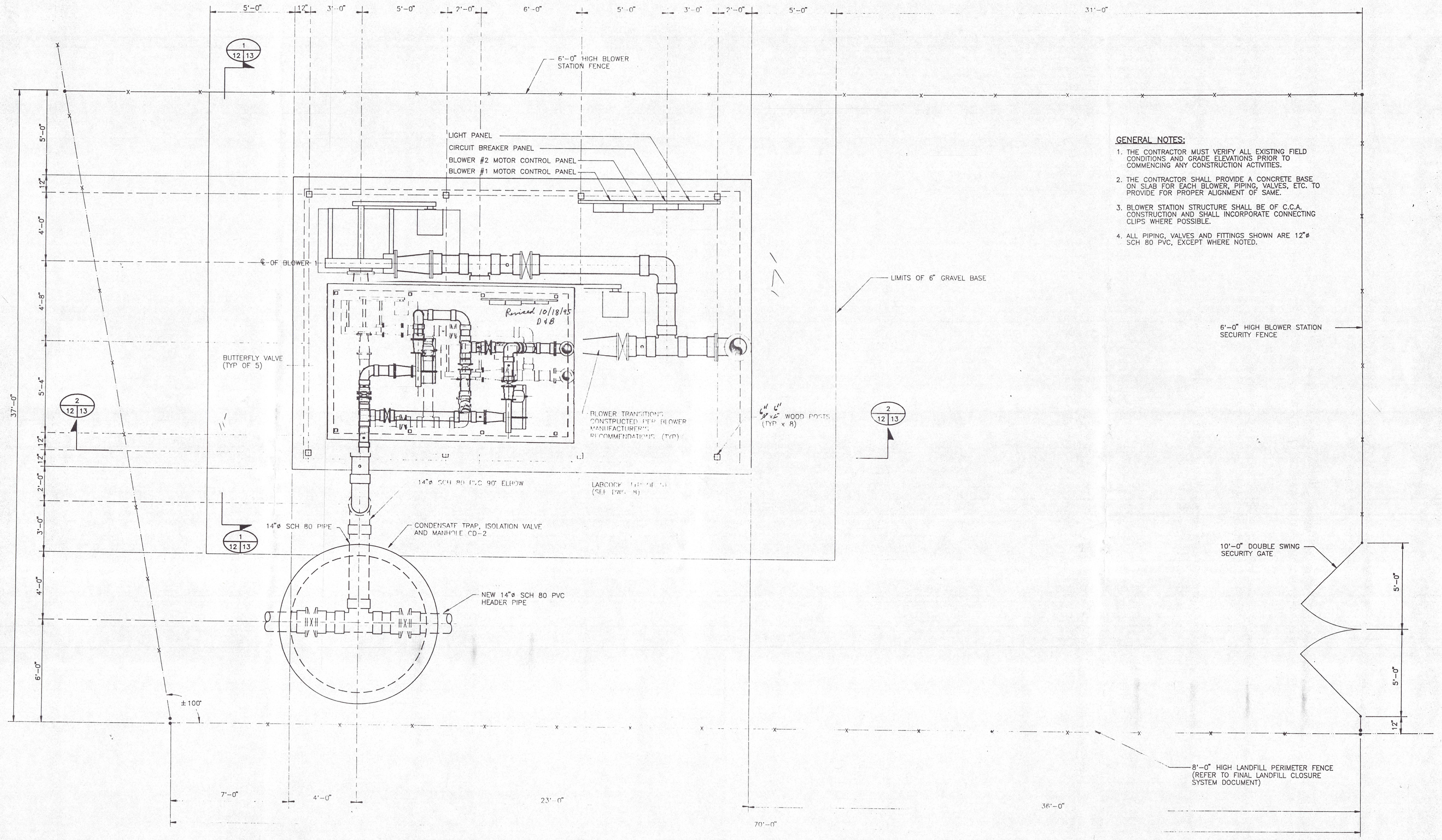
EAST NORTHPORT LANDFILL
TOWN OF HUNTINGTON, NY

LANDFILL GAS
INTERIM REMEDIAL PROGRAM

# EXISTING COLLECTION UNIT 1 BLOWER STATION

DEMOLITION

PROJECT NO. 1122
DATE MARCH, 1993
SCALE 3/4"=1'-0"
DRAWING NO. 11
DRAWING 11 OF




## PLAN SECTION OF NEW BLOWER UNIT NO. 1 (1 / 13 12)

SCALE: 3/8"=1'-0"

**GENERAL NOTES:**

1. THE CONTRACTOR MUST VERIFY ALL EXISTING FIELD CONDITIONS AND GRADE ELEVATIONS PRIOR TO COMMENCING ANY CONSTRUCTION ACTIVITIES.
2. THE CONTRACTOR SHALL PROVIDE A CONCRETE BASE ON SLAB FOR EACH BLOWER, PIPING, VALVES, ETC. TO PROVIDE FOR PROPER ALIGNMENT OF SAME.
3. BLOWER STATION STRUCTURE SHALL BE OF C.C.A. CONSTRUCTION AND SHALL INCORPORATE CONNECTING CLIPS WHERE POSSIBLE.
4. ALL PIPING, VALVES AND FITTINGS SHOWN ARE 12"ø SCH 80 PVC, EXCEPT WHERE NOTED.

DIRECTORY: 1122
FILE NAME: 1122-BLP
DATE: 6/15/93

| NO. | DATE | REVISION | INIT. |
|---|---|---|---|
| 1 | 2/93 | INCORPORATE NYSDEC'S COMMENTS | A.F.B. |

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| DESIGN ENGINEER | DRAWN BY |
|---|---|
| P.J.W. | T.McC., A.F.B. |
| IN CHARGE BY | CHECKED BY |
| M.P.R. | |

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CONSULTING ENGINEERS

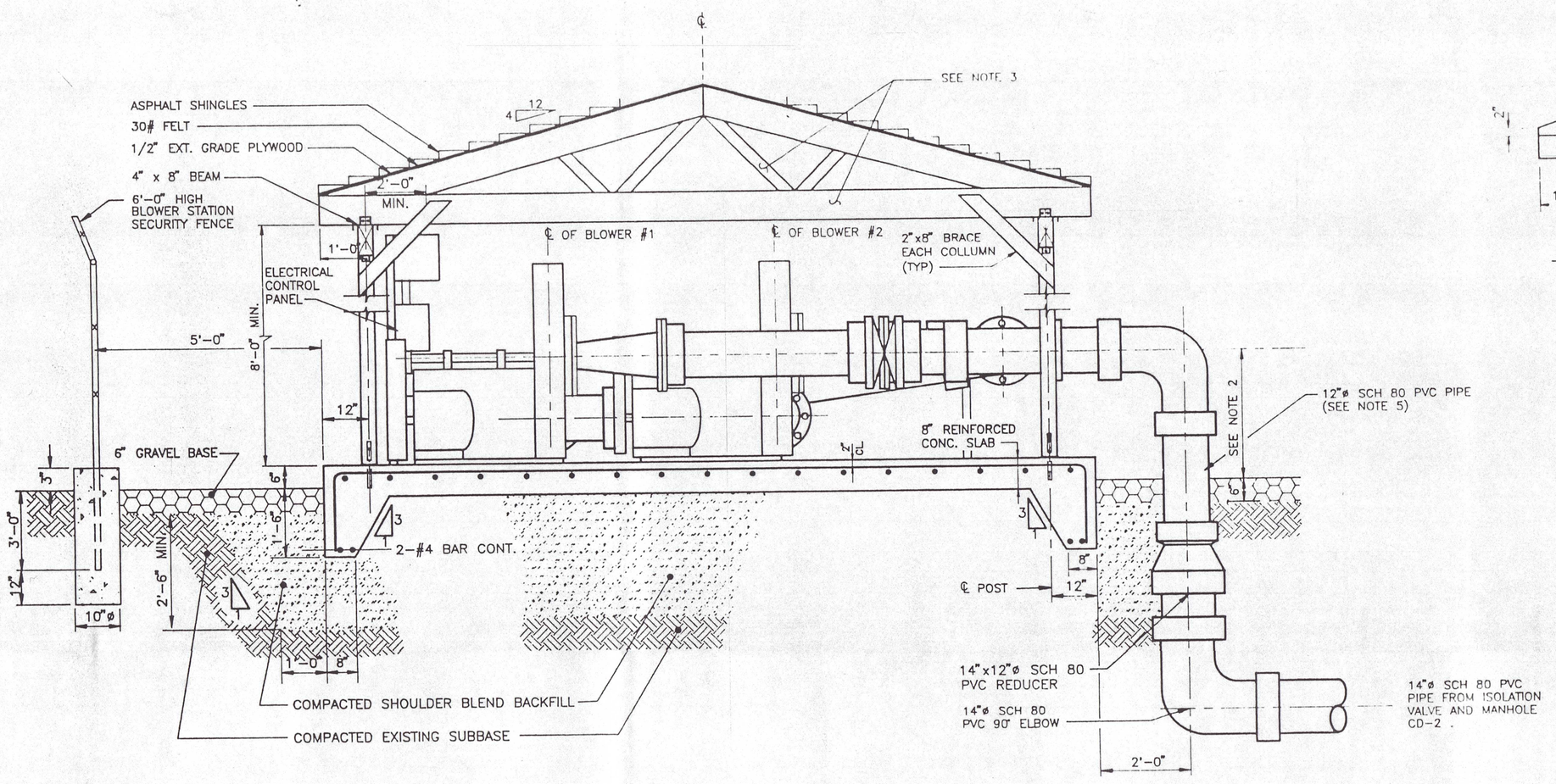
EAST NORTHPORT LANDFILL
TOWN OF HUNTINGTON, NY.

LANDFILL GAS
INTERIM REMEDIAL PROGRAM

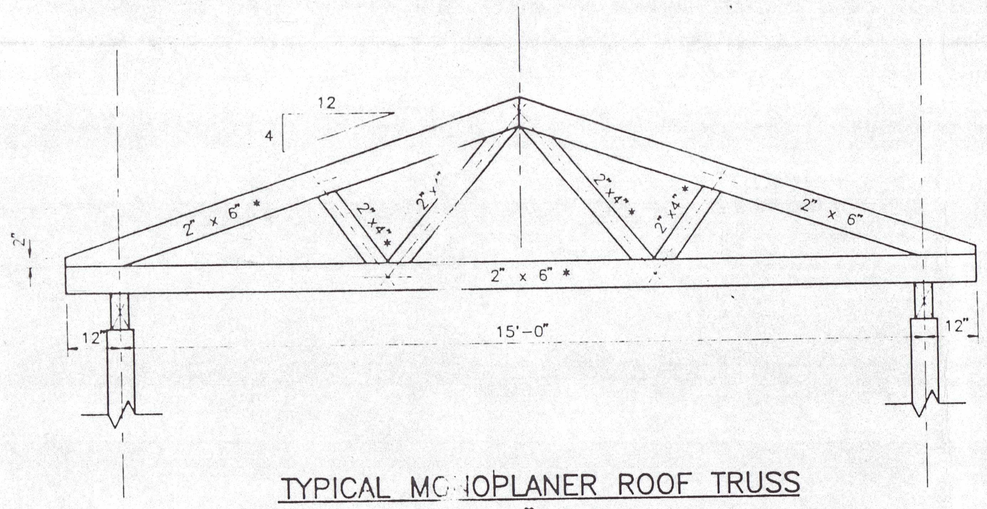
BLOWER UNIT NO. 1

PROJECT NO.: 1122 -
DATE: JUNE, 1993
SCALE: 3/8"=1'-0"

DRAWING NO. 12
DRAWING 12 OF 16



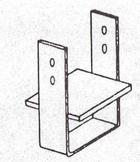

SECTION (1 / 12 / 13)
SCALE:1/2"=1'-0"



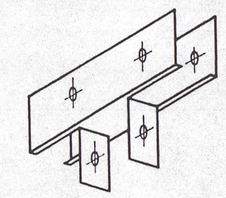

TYPICAL MONOPLANER ROOF TRUSS
2'-0" O.C.
SCALE:1/2"=1'

NOTE: TOTAL ROOF LOAD = 55 P.S.F.

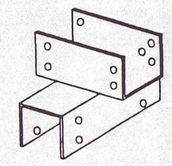
* END TRUSS SUPPORTING STACK USE 3"x6" AND 3"x4".



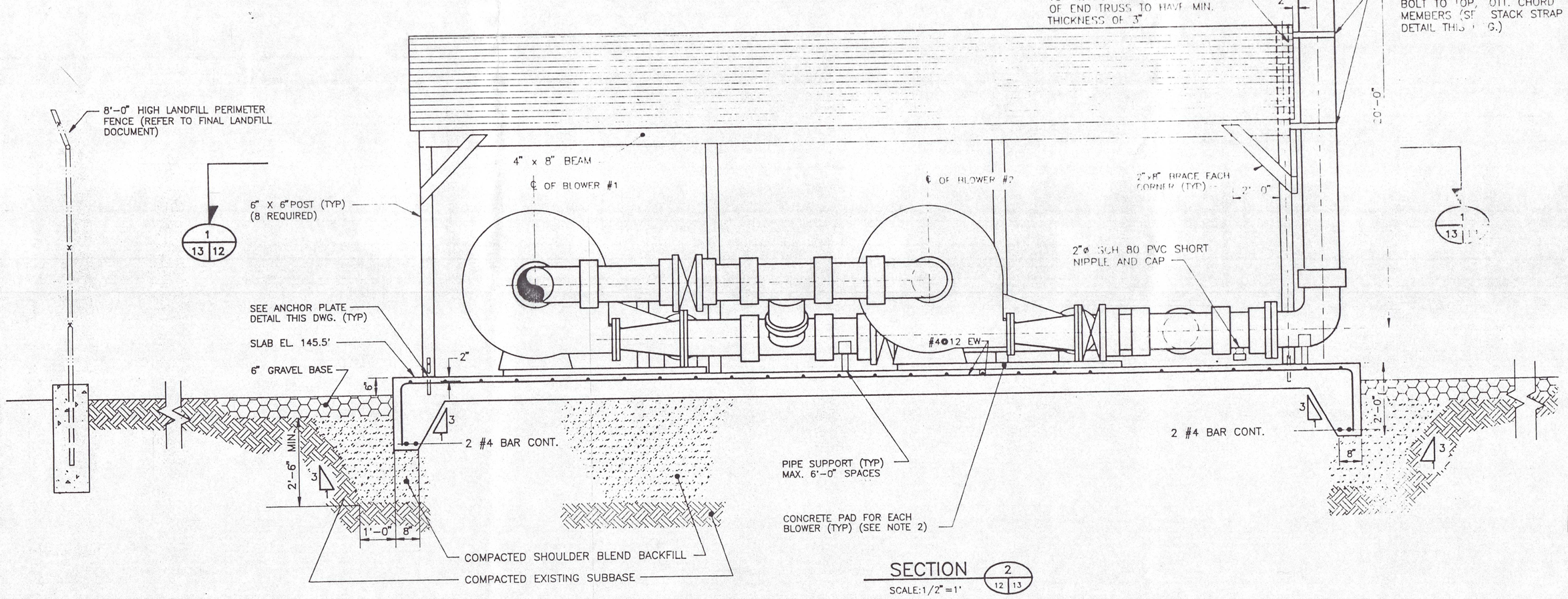
ANCHOR PLATE DETAIL
NOT TO SCALE



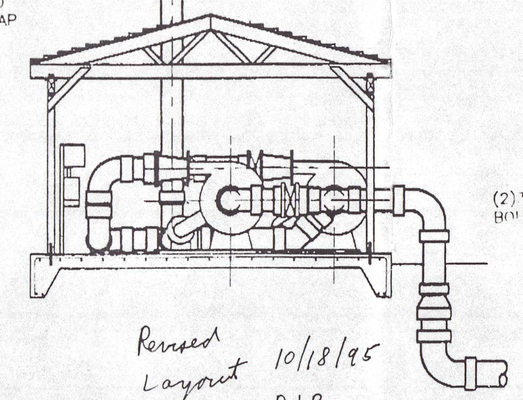
POST CAP DETAIL
NOT TO SCALE



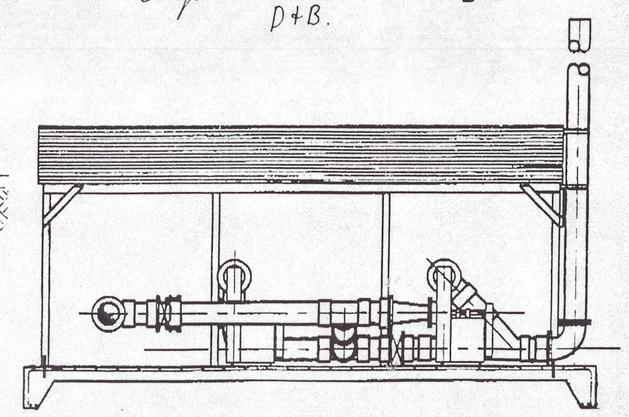
COLUMN CAP DETAIL
NOT TO SCALE

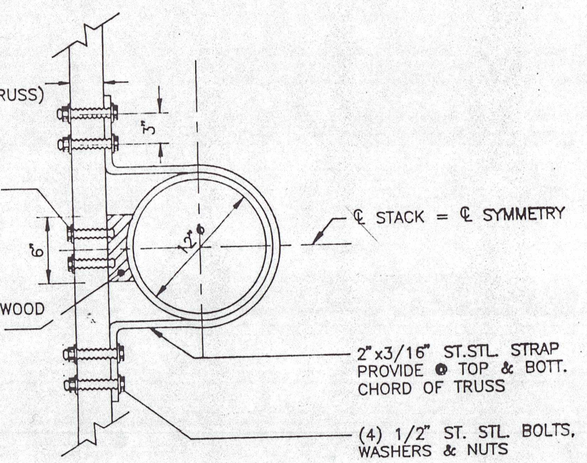



SECTION (2 / 12 / 13)
SCALE:1/2"=1'




Revised Layout 10/18/95 D+B.






STACK STRAP DETAIL
NOT TO SCALE

GENERAL NOTES:

1. THE CONTRACTOR MUST VERIFY ALL EXISTING FIELD CONDITIONS AND GRADE ELEVATIONS PRIOR TO COMMENCING ANY CONSTRUCTION ACTIVITIES.
2. THE CONTRACTOR SHALL PROVIDE A CONCRETE BASE FOR EACH BLOWER, PIPING, VALVES, ETC. TO PROVIDE FOR PROPER ALIGNMENT OF SAME.
3. BLOWER STATION STRUCTURE SHALL BE OF CCA CONSTRUCTION AND SHALL INCORPORATE CONNECTING CLIPS WHERE POSSIBLE.
4. ALL PIPING, VALVES AND FITTINGS SHOWN ARE 12"ø SCH 80 PVC EXCEPT WHERE NOTED.

DIR:1122
FILE:1122-BLS
DATE:4/16/93

| NO. | DATE | REVISION | INT. |
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| 1 | 2/93 | INCORPORATE NYSDEC'S COMMENTS | A.F.B. |

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| REVIEWED BY | CHECKED BY |
| M.P.R. | |

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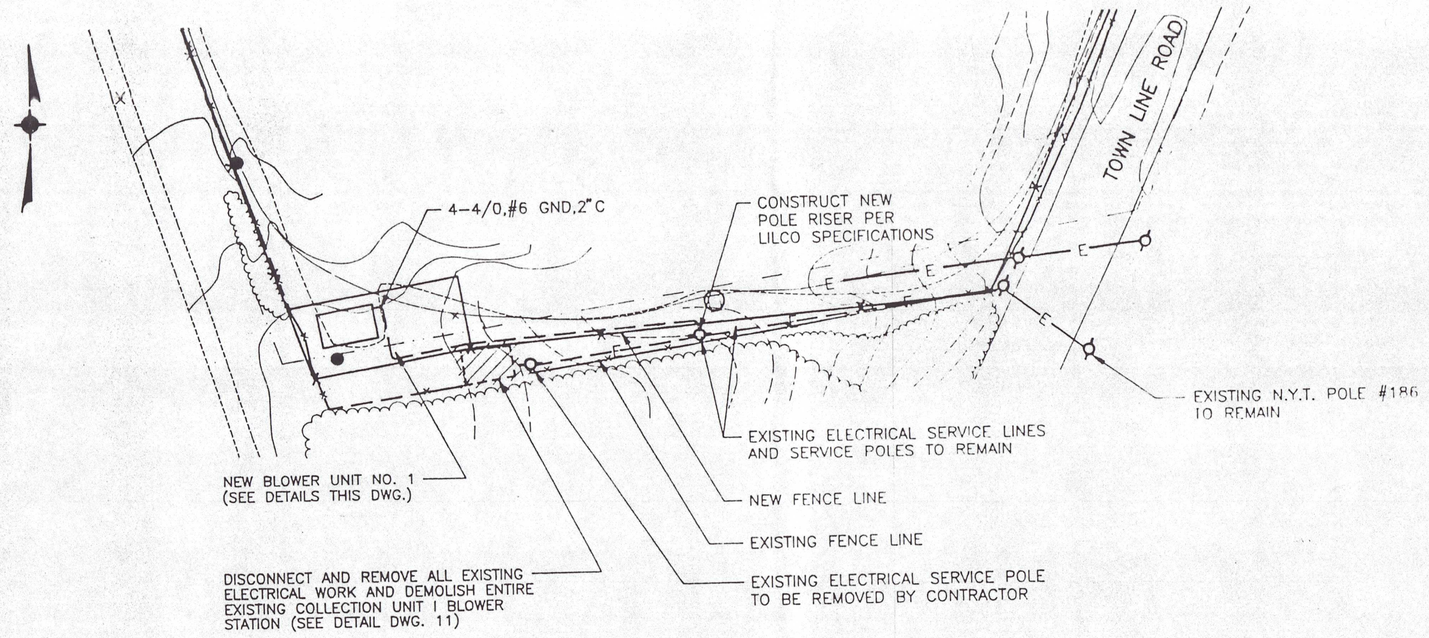
EAST NORTHPORT LANDFILL
TOWN OF HUNTINGTON, NY

LANDFILL GAS
INTERIM REMEDIAL PROGRAM

# BLOWER UNIT NO.1 SECTIONS

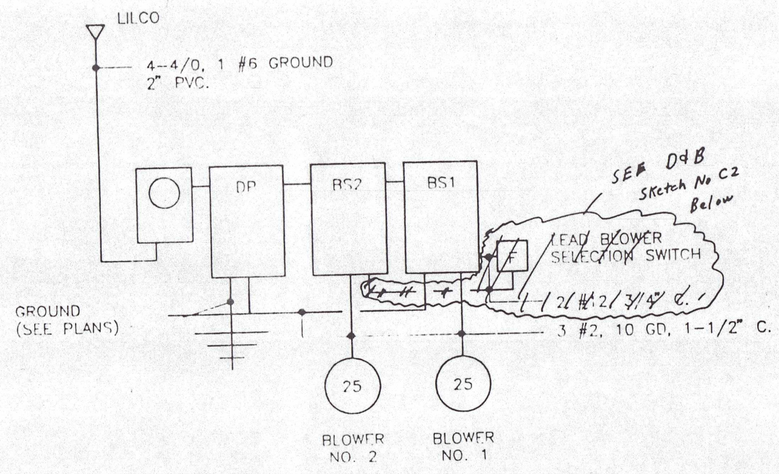
PROPOSED

| PROJECT NO. | DRAWING NO. |
|---|---|
| 1122 | 13 |
| DATE: MARCH, 1993 | |
| SCALE: 1/2"=1'-0" | DRAWING 13 OF 16 |




## PARTIAL SITE PLAN

SCALE 1"=50'




(SEE SPECIFICATIONS FOR EQUIPMENT DETAILS)

## ONE-LINE DIAGRAM

N.T.S.

**PANEL-UP**

| CKT NO. | DEVICE POLE | DEVICE TRIP | LOAD DESIGNATION | LOAD H.P. | LOAD KVA | LOAD AMPS | FEEDER |
|---|---|---|---|---|---|---|---|
| 1 | 1 | | | | | | |
| | 3 | 125 | BLOWER NO. 1 | 25 | | | 3 #2,#10 GND. 1-1/2" C. |
| | 5 | | | | | | |
| 2 | 7 | | | | | | |
| | 9 | 125 | BLOWER NO. 2 | 25 | | | 3 #2,#10 GND. 1-1/2" C. |
| | 11 | | | | | | |
| 3 | 13 | | | | | | |
| | 15 | 125 | SPARE | | | | |
| | 17 | | | | | | |
| 4 | 8 | | SPACES | | | | |
| | 10 | | | | | | |
| | 12 | | | | | | |
| 5 | 25 | | | | | | |
| | 27 | | | | | | |
| | 29 | | | | | | |
| 6 | 31 | | | | | | |
| | 33 | | | | | | |
| | 35 | | | | | | |
| 7 | 37 | | | | | | |
| | 39 | | | | | | |
| | 41 | | | | | | |
| 8 | 2 | 20 | LIGHTS, BLOWER AREA | | 0.4 | | 2 #12, 3/4" |
| | 4 | 20 | LIGHTS, FLOOD | | 1.0 | | 2 #12, 3/4" |
| | 6 | 20 | RECEPTACLE | | 0.5 | | 3 #12, 3/4" |
| 9 | 8 | 20 | SPARE | | | | |
| | 10 | 20 | SPARE | | | | |
| | 12 | 20 | SPARE | | | | |
| 10 | 14 | | SPACES | | | | |
| | 16 | | | | | | |
| | 18 | | | | | | |
| 11 | 20 | | | | | | |
| | 22 | | | | | | |
| | 24 | | | | | | |
| 12 | 26 | | | | | | |
| | 28 | | | | | | |
| | 30 | | | | | | |
| 13 | 32 | | | | | | |
| | 34 | | | | | | |
| | 36 | | | | | | |
| 14 | 38 | | | | | | |
| | 40 | | | | | | |
| | 42 | | | | | | |

PANEL: CIR. BKR.
MAIN: 200A CIRCUIT BREAKER,
• LABLED AS "SERVICE ENTRANCE EQUIPMENT", NEMA 3R ENCL.

TYPE: BOLT ON SURF. MTD
208/120 VOLTS: 1 Φ, 3W, 60~
FEEDER: 4-4/0, #6 GND. 2" C.

## PANEL DP SCHEDULE

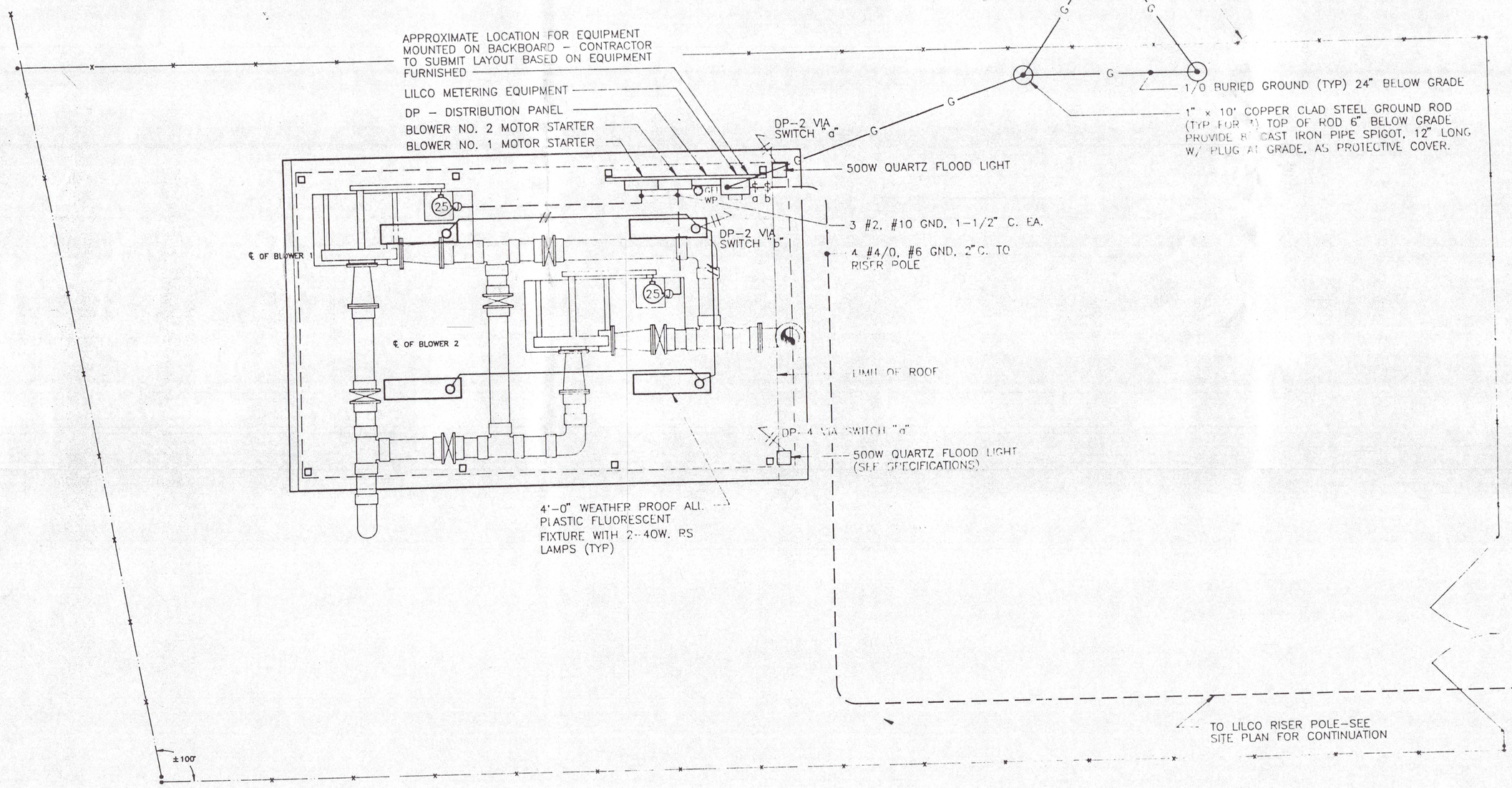
N.T.S.

NOTES:

1. EXISTING POLE LINE, EXISTING BLOWER STATION SERVICE EQUIPMENT AND EXISTING BLOWER STATION ELECTRICAL WORK CANNOT BE DEMOLISHED UNTIL ALL ELECTRICAL WORK AND ELECTRICAL SERVICE EQUIPMENT FOR NEW BLOWER UNIT NO. 1 HAS BEEN ENERGIZED AND TESTED.

LEGEND:

- CONDUIT RUN IN EARTH OR BELOW SLAB
- CONDUIT RUN EXPOSED – HASH MARKS INDICATE #12 WIRES
- WEATHER PROOF JUNCTION BOX
- GFI WP — DUPLEX, WEATHER PROOF 120V, 20A GROUND FAULT PROTECTED RECEPTACLE
- $ — WEATHER PROOF SPEC. GRADE TOGGLE SWITCH
- G — GROUND CONDUCTOR
- GROUND ROD
- FLUORECENT FIXTURE – SEE SPECIFICATION

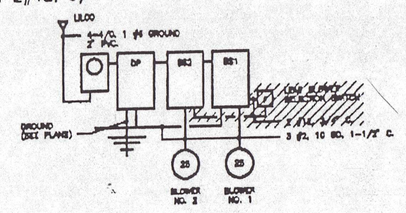



## PLAN – BLOWER UNIT NO. 1

SCALE 1/4" = 1'-0"

REF. DVIRKA & BARTILUCCI DWG. #14

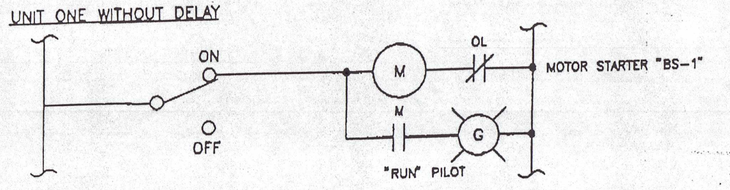
1. DELETE "LEAD BLOWER SELECTION SWITCH" (BOXED "F") ON ONE-LINE DIAGRAM, ALONG WITH 2#12, 3/4"C TO EACH BLOWER STARTER. AS SHOWN BELOW:



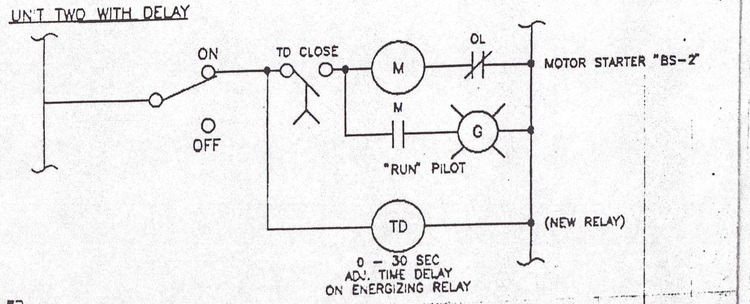

2. ADD AN ADJUSTABLE "TIME DELAY ON ENERGIZATION" RELAY (30 SEC) TO ONE OF THE BLOWER STARTERS. THE PURPOSE OF THE TIME DELAY IS TO PREVENT TWO BLOWERS FROM RESTARTING SIMULTANEOUSLY AFTER A POWER FAILURE, IF BOTH BLOWERS WERE RUNNING.

3. HOOK UP THE ON-OFF SWITCH AND PILOT LIGHT SPECIFIED FOR EACH BLOWER STARTER, AND THE ADDED TIME DELAY, AS SHOWN BELOW:

UNIT ONE WITHOUT DELAY




UNIT TWO WITH DELAY




Dvirka and Bartilucci Consulting Engineers
A Division of William F. Cosulich Associates, P.C.

SKETCH NO. C2

DIRECTORY: 1122
FILE NAME: 1122-E1
DATE: 6/16/93

| NO. | DATE | REVISION | INT. |
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| 1 | 2/93 | INCORPORATE NYSDEC'S COMMENTS | A.F.B. |

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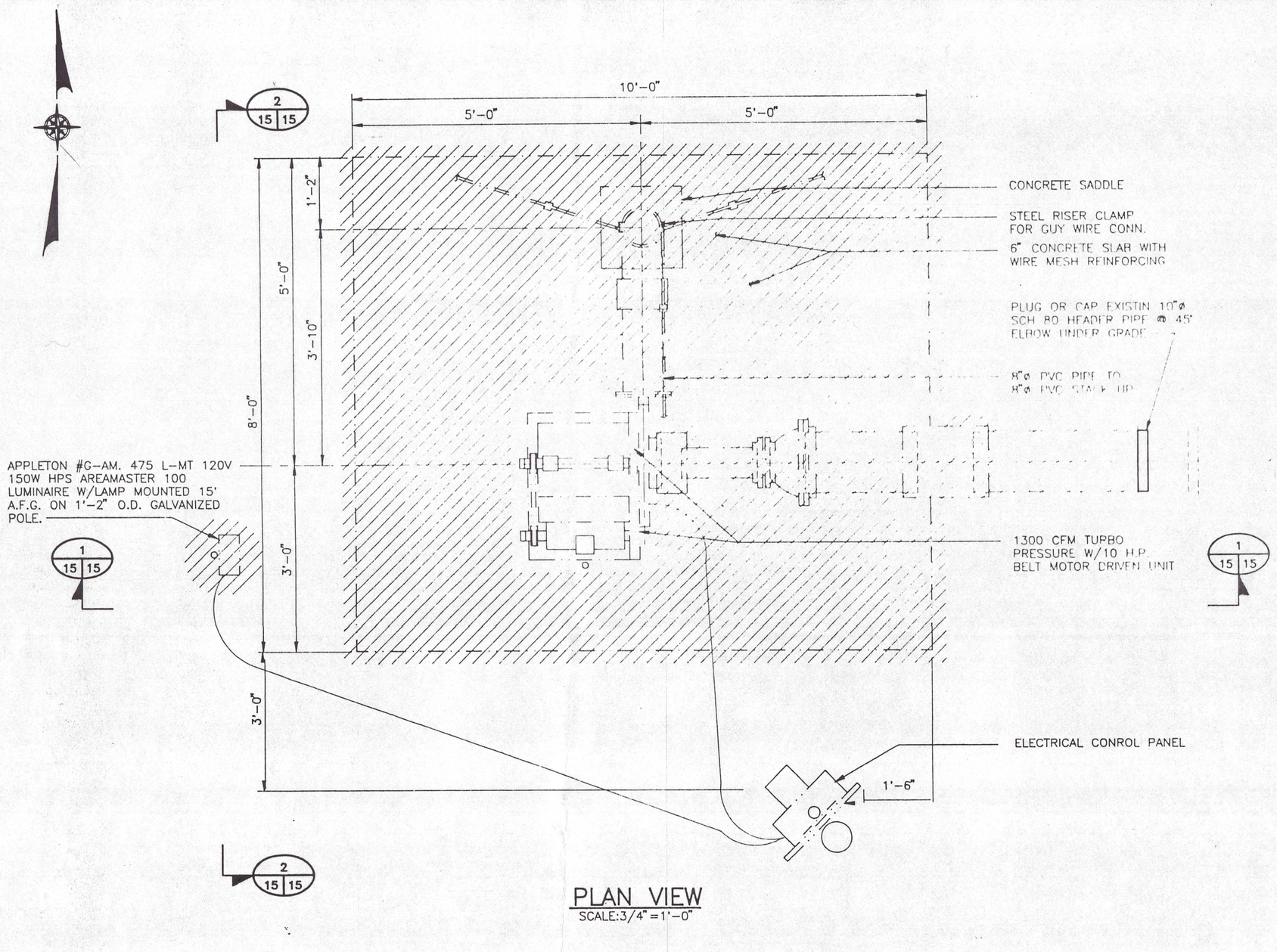
DVIRKA AND BARTILUCCI
CONSULTING ENGINEERS

EAST NORTHPORT LANDFILL
TOWN OF HUNTINGTON, NY

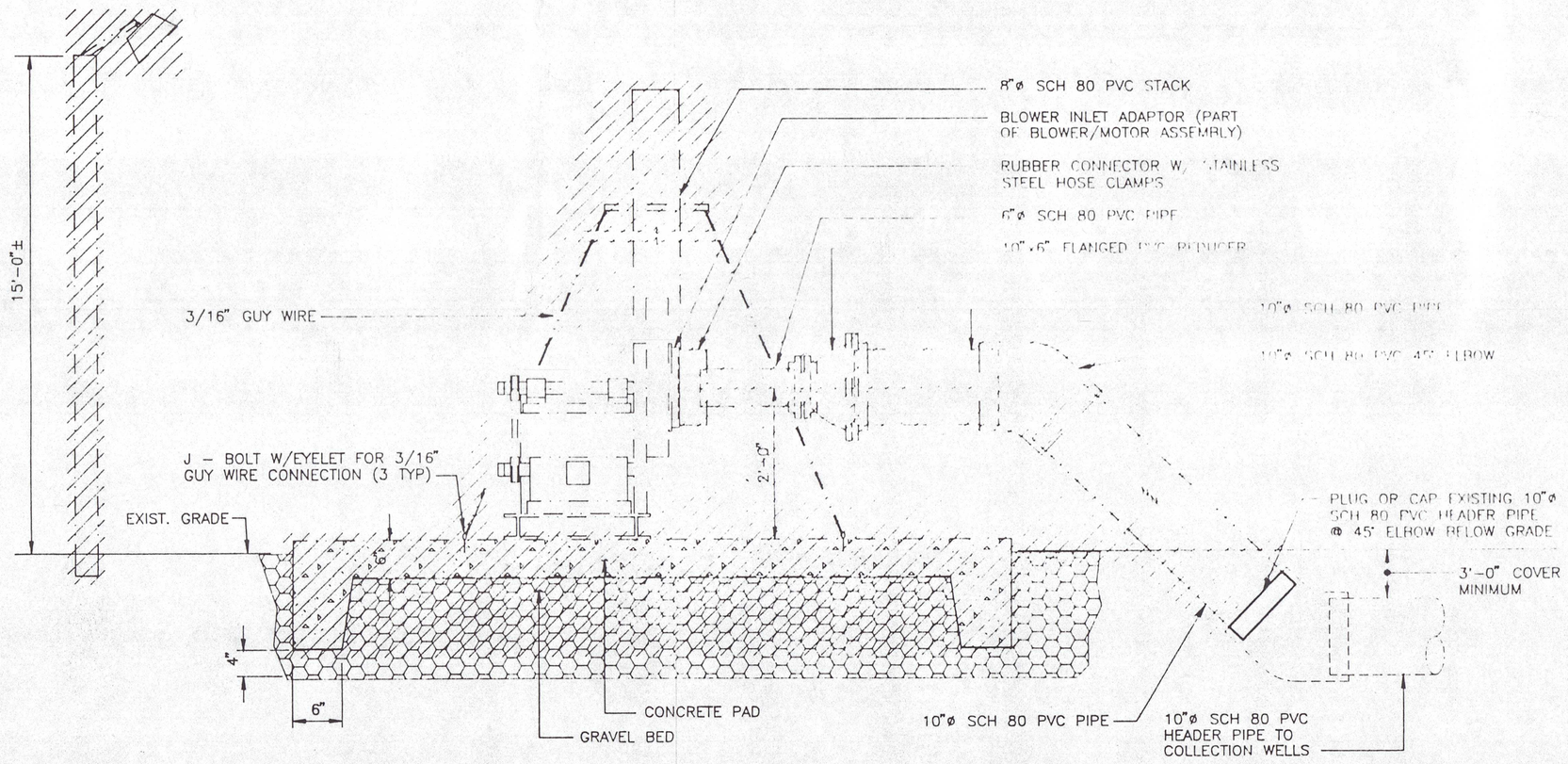
LANDFILL GAS
INTERIM REMEDIAL PROGRAM

BLOWER UNIT NO. 1
ELECTRICAL

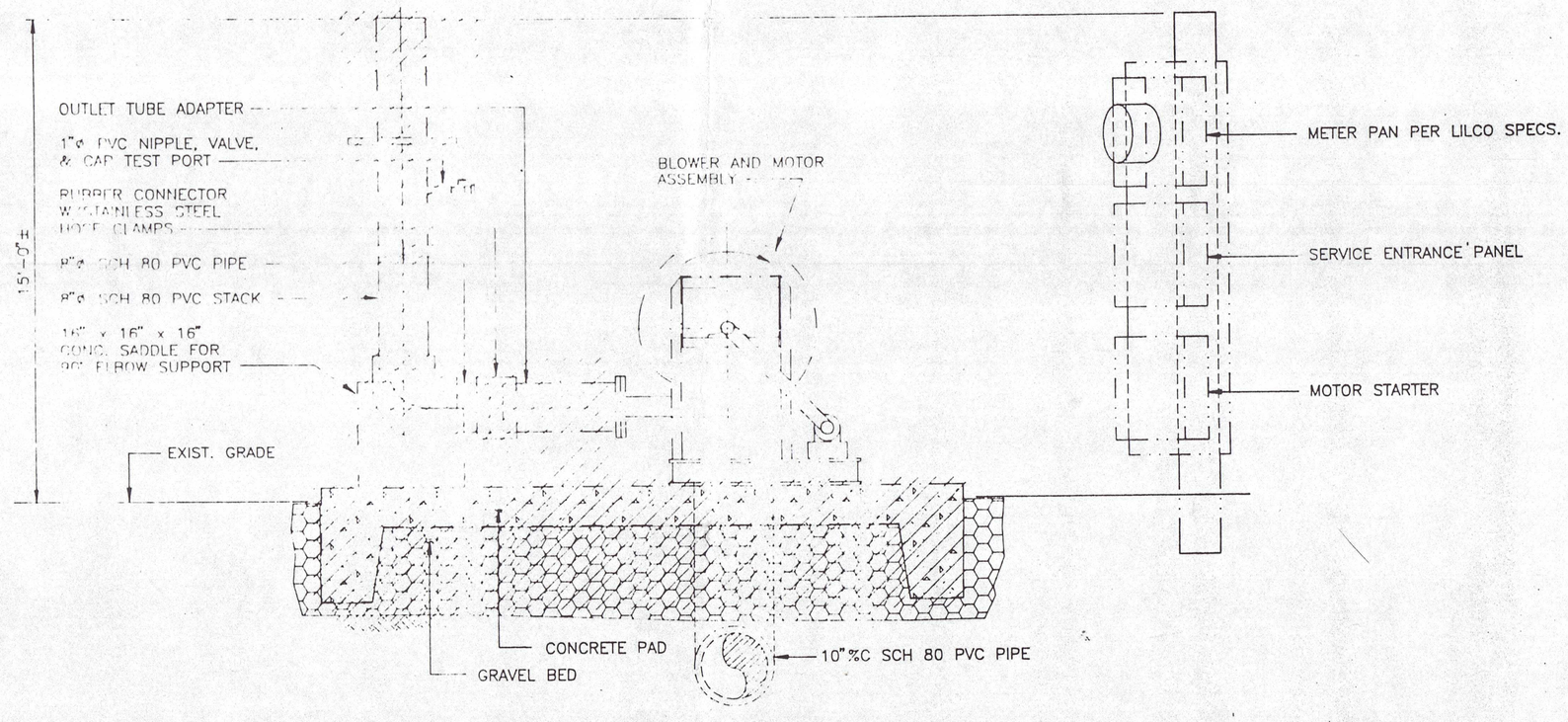
| PROJECT NO. | DRAWING NO. |
|---|---|
| 1122 | 14 |
| DATE: JUNE, 1993 | DRAWING 14 OF 15 |
| SCALE: 1/4"=1' | |




PLAN VIEW
SCALE:3/4" = 1'-0"




SOUTH ELEVATION
SECTION 1 (15 15)
SCALE:3/4" = 1'-0"




WEST ELEVATION
SECTION 2 (15 15)
SCALE:3/4" = 1'-0"

## GENERAL NOTES:

1. THE EXISTING COLLECTION UNIT II BLOWER AND MOTOR ASSEMBLY SHALL BE DISCONNECTED AND WRAPPED FOR STORAGE. THE WRAPPED ASSEMBLY SHALL BE REMOVED BY THE TOWN UPON NOTIFICATION BY THE CONTRACTOR. ALL PIPE AND PIPE FITTINGS INCLUDING CONCRETE PAD AND APPURTENANCES WILL BE DEMOLISHED AND REMOVED BY THE CONTRACTOR. THE ORIGINAL GRADE SHALL BE RESTORED.
2. ALL EXISTING ELECTRICAL EQUIPMENT WITH THE EXCEPTION OF THE LUMINAIRE W/LAMP AND ACCOMPANING POLE WILL BE DISCONNECTED AND WRAPPED FOR STORAGE BY THE CONTRACTOR.

DIRECTORY:1122
FILE NAME:BLOWER-2
DATE:4/16/93

| NO. | DATE | REVISION | INT. |
|---|---|---|---|
| | | | |

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CONSULTING ENGINEERS

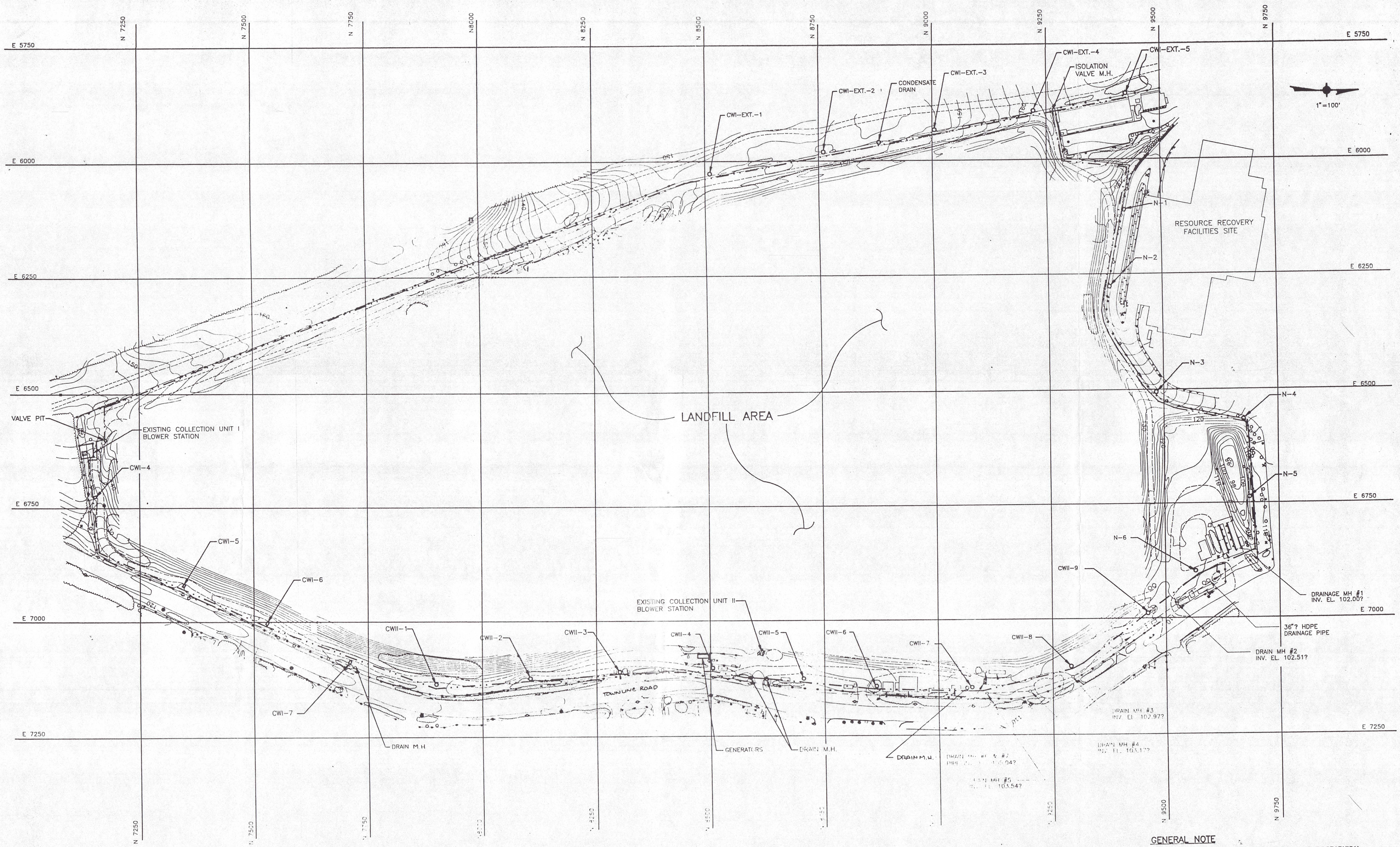
EAST NORTHPORT LANDFILL
TOWN OF HUNTINGTON, NY

LANDFILL GAS
INTERIM REMEDIAL PROGRAM

# EXISTING COLLECTION UNIT II BLOWER STATION

DEMOLITION

PROJECT NO. 1122
DATE: MARCH, 1993
SCALE: 3/4" = 1'-0"
DRAWING NO. 15
DRAWING 15 OF 16




GENERAL NOTE

1. ALL BACKGROUND SITE, DRAINAGE AND TOPOGRAPHICAL INFORMATION HAS BEEN REPRODUCED FROM THE FINAL LANDFILL CLOSURE DOCUMENTS AND SUPERIMPOSED OR INCORPORATED ON THESE DRAWINGS FOR THE CONTRACTORS CONVENIENCE. PRIOR TO THE START OF ANY WORK, THE CONTRACTOR MUST VERIFY EXISTING FIELD CONDITIONS.

LEGEND

— · · — EXISTING HEADER PIPE

DIRECTORY: 1122
FILE NAME: 1122-16
DATE: 5-14-93

| NO. | DATE | REVISION | INT. |
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| 1 | 2/93 | INCORPORATE NYSDEC'S COMMENTS | A.F.B. |

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EAST NORTHPORT LANDFILL
TOWN OF HUNTINGTON, NEW YORK

LANDFILL GAS
INTERIM REMEDIAL PROGRAM

# PLAN OF EXISTING LANDFILL GAS COLLECTION SYSTEM

| PROJECT NO. | DRAWING NO. |
|---|---|
| 1122 | 16 |
| DATE: APRIL, 1993 | DRAWING 16 OF 16 |
| SCALE: 1"=100' | |