



CUY-90-14.90

PID 77332/85531

APPENDIX UT-01

**SUE Level A – Report and Mapping
(Contract Document)**

State of Ohio
Department of Transportation
Jolene M. Molitoris, Director

**Innerbelt Bridge
Construction Contract Group 1 (CCG1)**



The Subsurface Utility Engineering Company
 449 Munroe Falls Road
 Tallmadge, OH 44278
 (330) 794-4455

So-Deep Test Hole Certification Form

© So-Deep 1988, 1991

So-Deep, Corporate Office
 8397 Euclid Avenue
 Manassas Park, VA 20111
 (703)361-6005

Control # **EJQC156**
 Test Hole # **1**
 Plan Scale **1"=20'**
 Sheet # **181**
 Proposed **GRADE CHANGE**
 Date **AUGUST 31, 2009**

City, County, State **CITY OF CLEVELAND, OH**
 Gen. Loc. **REAR LOT BLDG. #206 CENTRAL VIADUCT**
 Recorded Size/Material/Type **TOP SW EDGE PRECAST CONC. ELEC. TUNNEL**
 Foreman/Truck#/Form By **J. CLINE / 219 / R. MOONEY**

Condition of paving prior to work
ASP. LOT IN POOR CONDITION

B.M. 1 Elev = **627.90'**
 IS **CALCULATED**

Description: **(3) NAILS SET IN BASE OF U.P. IN REAR LOT OF BLDG. #206 CENTRAL VIADUCT**

B.M. 2 Elev. = **627.74'**
 IS **CALCULATED**

Description: **CHIS "[]" SET IN SE CORNER OF CONC. FRAME OF ELEC. MH. IN THE REAR LOT OF BLDG. #206 CENTRAL VIADUCT**

Benchmarks check **BY 0.01'**
 Elevations are referenced to **B.M.#2**

SO-DEEP will attempt to use the BM/HL most applicable to your design. If however, BMs differ by more than .05', resulting differences could cause design conflicts.

Recorded Size/Type of utility **WAS FOUND**

There **WERE NOT** additional utilities in the test hole

The utility **WAS** in good condition.

Paving Thickness and type **1" ASP.**

Color of ribbon installed **RED**

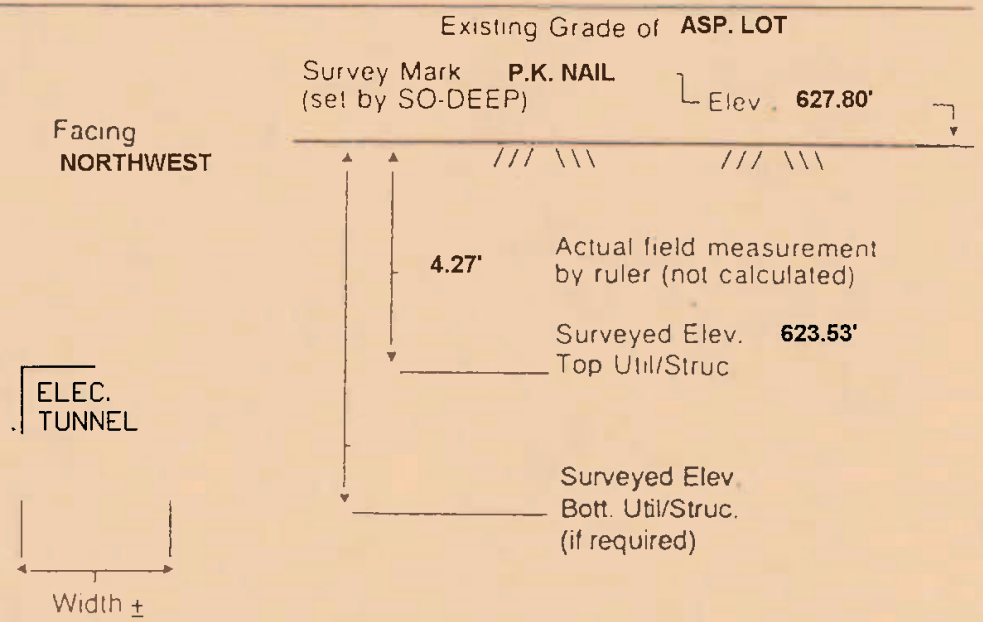
Soil Type **STONE**

Field Condition **ASP. PARKING LOT**

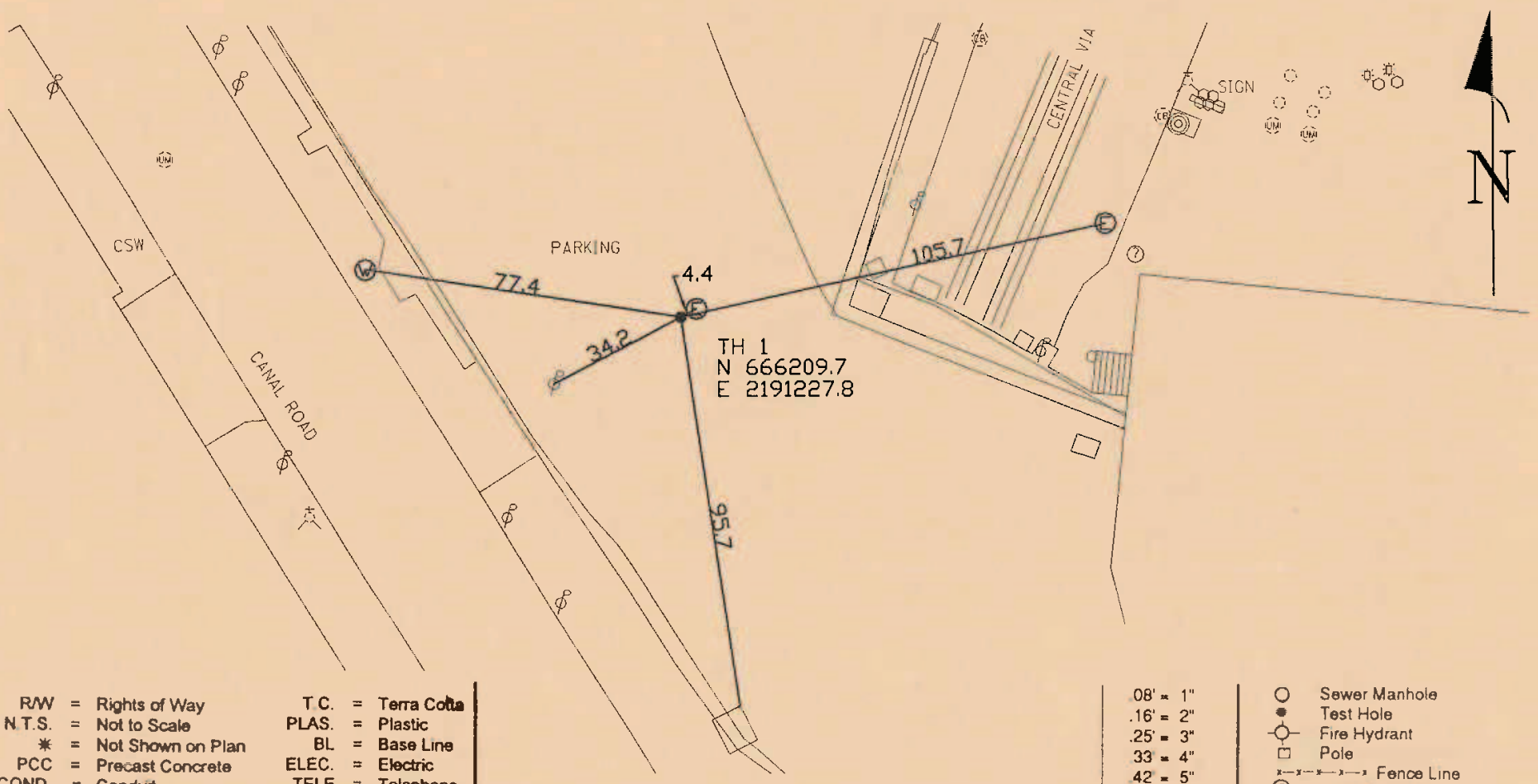
T.H. tied to **P.K. NAIL**

TOP SW EDGE PRECAST CONC. ELEC TUNNEL
 Size/Material/Type
 Portion of pipe exposed
 for O D measurement.
N/A

Remarks: **NONE**



Paul R. Cole



- | | |
|---------------------------|--------------------|
| RW = Rights of Way | T.C. = Terra Cotta |
| N.T.S. = Not to Scale | PLAS. = Plastic |
| * = Not Shown on Plan | BL = Base Line |
| PCC = Precast Concrete | ELEC. = Electric |
| COND. = Conduit | TELE = Telephone |
| CONC. = Concrete | T.H. = Test Hole |
| O.D. = Outside Diameter | SW = Sidewalk |
| C.I. = Cast Iron | DW = Driveway |
| D.I. = Ductile Iron | BM = Benchmark |
| RPC = Rough Pour Concrete | C.B. = Catch Basin |
| CL = Centerline | GV = Gas Valve |

*Performing out-of-sight work...with vision!*TM
 Note: To Eliminate mistakes and check this work, So-Deep suggests you scale and plot all dimensions onto the plans and review all elevations carefully. So-Deep is responsible only for information shown on our forms.

- | | |
|------------|-----------------------------|
| 08" = 1" | ○ = Sewer Manhole |
| .16" = 2" | ● = Test Hole |
| .25" = 3" | ⊙ = Fire Hydrant |
| .33" = 4" | □ = Pole |
| .42" = 5" | --- = Fence Line |
| .50" = 6" | ⊕ = Electric Manhole |
| .58" = 7" | ⊖ = T.S. = Traverse Station |
| .67" = 8" | △ = Valve |
| .75" = 9" | ⊗ = Water Meter |
| .83" = 10" | ⊙ = Telephone Manhole |
| .92" = 11" | □ = Telephone Pedestal |



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Control # **EJQC156**
 Test Hole # **2**
 Plan Scale **1"=20'**
 Sheet # **181**
 Proposed **GRADE CHANGE**
 Date **AUGUST 31, 2009**

City, County, State **CITY OF CLEVELAND, OH**
 Gen. Loc **REAR LOT BLDG. #206 CENTRAL VIADUCT**
 Recorded Size/Material/Type **TOP NE EDGE PRECAST CONC. ELEC. TUNNEL**
 Foreman/Truck#/Form By **J. CLINE / 219 / R. MOONEY**

Condition of paving prior to work
ASP. LOT IN POOR CONDITION

B.M. 1 Elev = **627.90'**
 IS **CALCULATED**

Description: **(3) NAILS SET IN BASE OF U.P. IN REAR LOT OF BLDG. #206 CENTRAL VIADUCT**

B.M. 2 Elev = **627.74'**
 IS **CALCULATED**

Description: **CHIS "I" SET IN SE CORNER OF CONC. FRAME OF ELEC. MH. IN THE REAR LOT OF BLDG. #206 CENTRAL VIADUCT**

Benchmarks check **BY 0.01'**
 Elevations are referenced to **B.M.#2**

SO-DEEP will attempt to use the BM/HL most applicable to your design. If however, BMs differ by more than .05', resulting differences could cause design conflicts

Recorded Size/Type of utility **WAS FOUND**

There **WERE NOT** additional utilities in the test hole

The utility **WAS** in good condition.

Paving Thickness and type **1" ASP.**

Color of ribbon installed **RED**

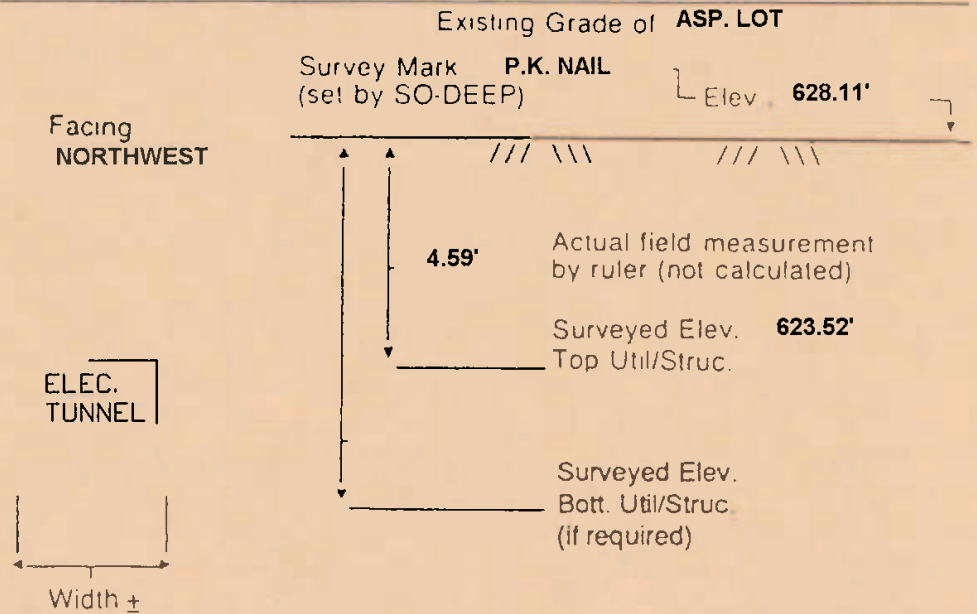
Soil Type **STONE**

Field Condition **ASP. PARKING LOT**

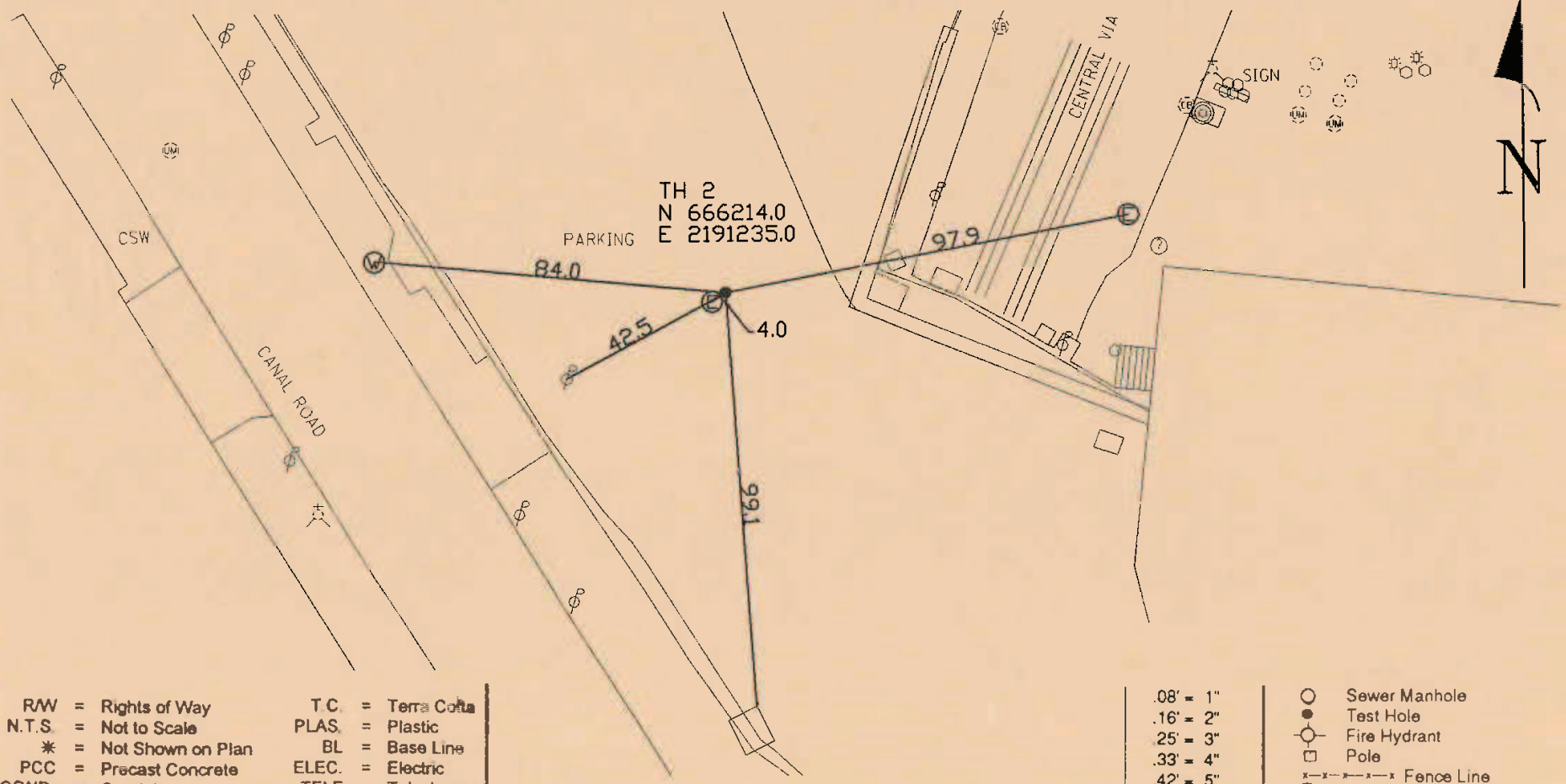
T.H. tied to **P.K. NAIL**

TOP NE EDGE PRECAST CONC. ELEC TUNNEL
 Size/Material/Type
 Portion of pipe exposed for O.D. measurement.
N/A

Remarks: **NONE**



Handwritten signature: R. Mooney



- | | |
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| COND. = Conduit | TELE. = Telephone |
| CONC. = Concrete | T.H. = Test Hole |
| O.D. = Outside Diameter | SW = Sidewalk |
| C.I. = Cast Iron | DW = Driveway |
| D.I. = Ductile Iron | BM = Benchmark |
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Control # **EJQC156**
 Test Hole # **3**
 Plan Scale **1"=20'**
 Sheet # **181**
 Proposed **GRADE CHANGE**
 Date **SEPTEMBER 1, 2009**

City, County, State **CITY OF CLEVELAND, OH**
 Gen. Loc. **REAR LOT BLDG. #206 CENTRAL VIADUCT**
 Recorded Size/Material/Type **TOP SW EDGE PRECAST CONC. ELEC. TUNNEL**
 Foreman/Truck#/Form By **J. CLINE / 219 / R. MOONEY**

Condition of paving prior to work
ASP. LOT IN POOR CONDITION

B.M. 1 Elev. = **627.90'**
 is **CALCULATED**

Description: **(3) NAILS SET IN BASE OF U.P. IN REAR LOT OF BLDG. #206 CENTRAL VIADUCT**

B.M. 2 Elev. = **627.74'**
 is **CALCULATED**

Description: **CHIS "I" SET IN SE CORNER OF CONC. FRAME OF ELEC. MH. IN THE REAR LOT OF BLDG. #206 CENTRAL VIADUCT**

Benchmarks check **BY 0.01'**
 Elevations are referenced to **B.M.#2**

SO-DEEP will attempt to use the BM/HL most applicable to your design. If however, BMs differ by more than .05', resulting differences could cause design conflicts.

Recorded Size/Type of utility **WAS FOUND**

There **WERE NOT** additional utilities in the test hole

The utility **WAS** in good condition.

Paving Thickness and type **1" ASP.**

Color of ribbon installed **RED**

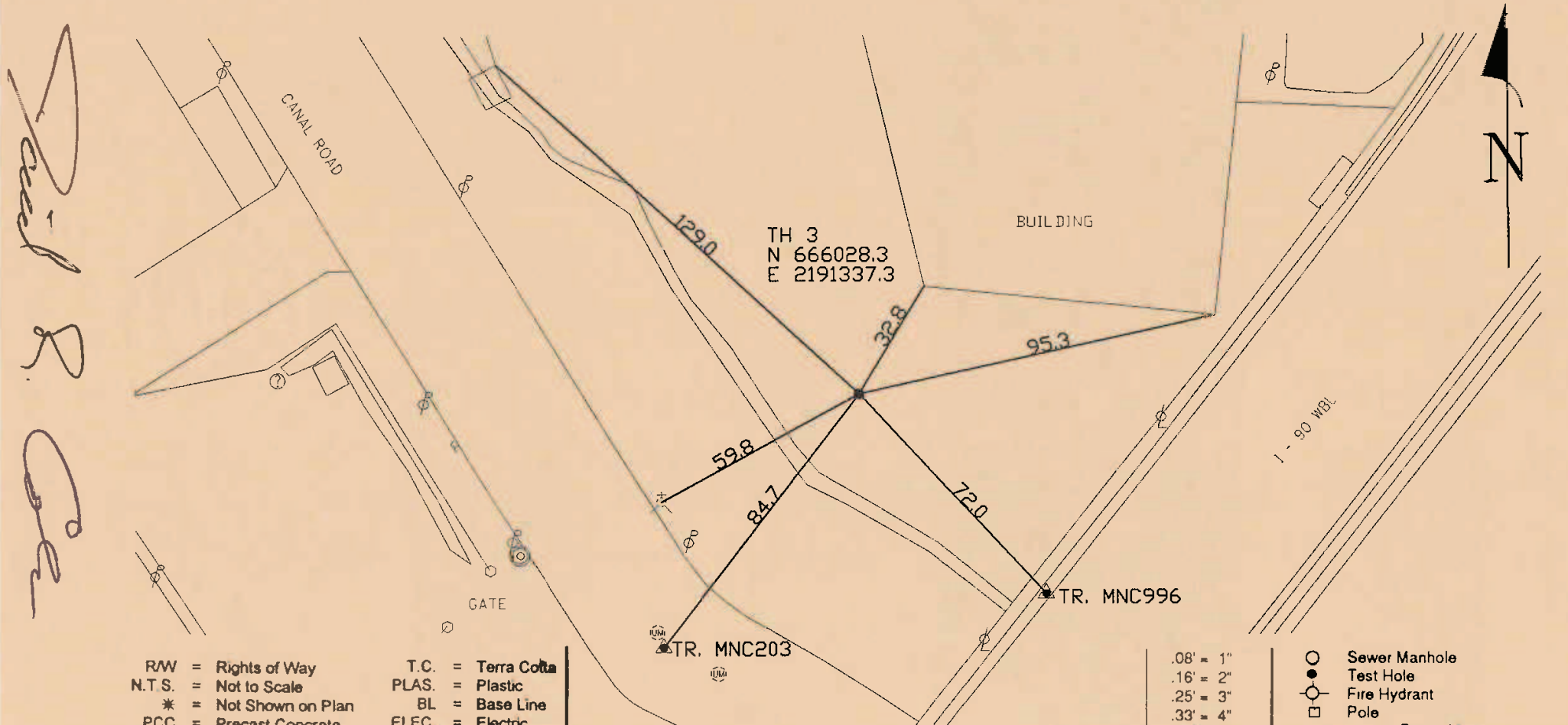
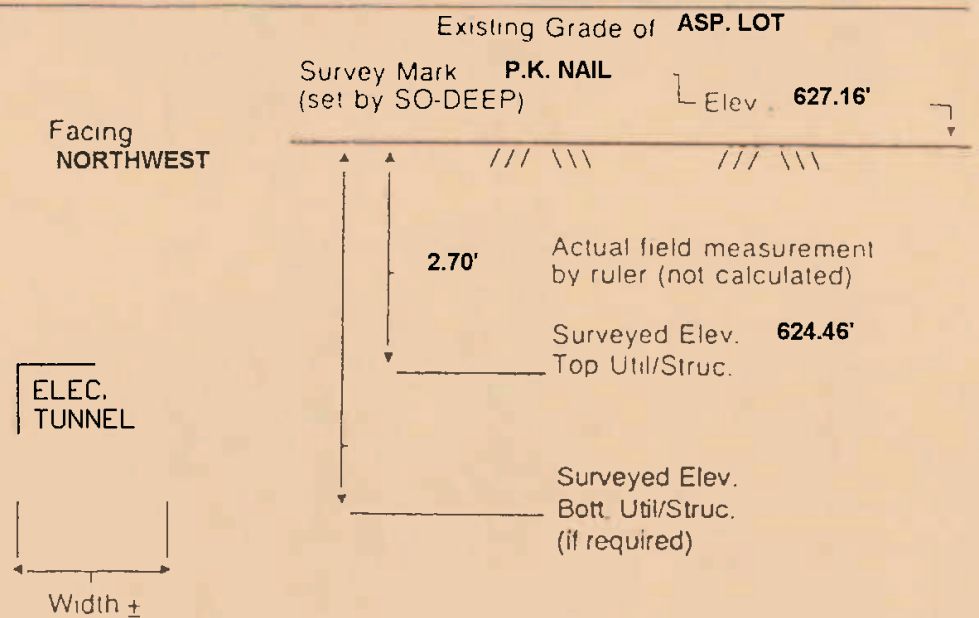
Soil Type **STONE**

Field Condition **ASP. PARKING LOT**

T.H. tied to **P.K. NAIL**

TOP SW EDGE PRECAST CONC. ELEC TUNNEL
 Size/Material/Type
 Portion of pipe exposed for O.D. measurement.
N/A

Remarks: **NONE**



- R/W = Rights of Way
- N.T.S. = Not to Scale
- * = Not Shown on Plan
- PCC = Precast Concrete
- COND. = Conduit
- CONC. = Concrete
- O.D. = Outside Diameter
- C.I. = Cast Iron
- D.I. = Ductile Iron
- RPC = Rough Pour Concrete
- CL = Centerline
- T.C. = Terra Cotta
- PLAS. = Plastic
- BL = Base Line
- ELEC. = Electric
- TELE. = Telephone
- T.H. = Test Hole
- SW = Sidewalk
- DW = Driveway
- BM = Benchmark
- C.B. = Catch Basin
- GV = Gas Valve

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- .42' = 5"
- .50' = 6"
- .58' = 7"
- .67' = 8"
- .75' = 9"
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- = Sewer Manhole
- = Test Hole
- ⊙ = Fire Hydrant
- = Pole
- = Fence Line
- ⊕ = Electric Manhole
- ⊖ = T.S. = Traverse Station
- ⊗ = Valve
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- ⊖ = Telephone Manhole
- ⊗ = Telephone Pedestal

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Control # EJQC156
 Test Hole # 4
 Plan Scale 1"=20'
 Sheet # 181
 Proposed GRADE CHANGE
 Date SEPTEMBER 1, 2009

City, County, State CITY OF CLEVELAND, OH
 Gen. Loc REAR LOT BLDG. #206 CENTRAL VIADUCT
 Recorded Size/Material/Type TOP NE EDGE PRECAST CONC. ELEC. TUNNEL
 Foreman/Truck#/Form By J. CLINE / 219 / R. MOONEY

Condition of paving prior to work
ASP. LOT IN POOR CONDITION

B.M. 1 Elev. = 627.90'
 is CALCULATED

Description: (3) NAILS SET IN BASE OF U.P. IN REAR LOT OF BLDG. #206 CENTRAL VIADUCT

B.M. 2 Elev. = 627.74'
 is CALCULATED

Description: CHIS "[]" SET IN SE CORNER OF CONC. FRAME OF ELEC. MH. IN THE REAR LOT OF BLDG. #206 CENTRAL VIADUCT

Benchmarks check BY 0.01'
 Elevations are referenced to B.M.#2

SO DEEP will attempt to use the BM/Hi most applicable to your design. If however, BMs differ by more than .05', resulting differences could cause design conflicts.

Recorded Size/Type of utility WAS FOUND

There WERE NOT additional utilities in the test hole

The utility WAS in good condition

Paving Thickness and type 1" ASP.

Color of ribbon installed RED

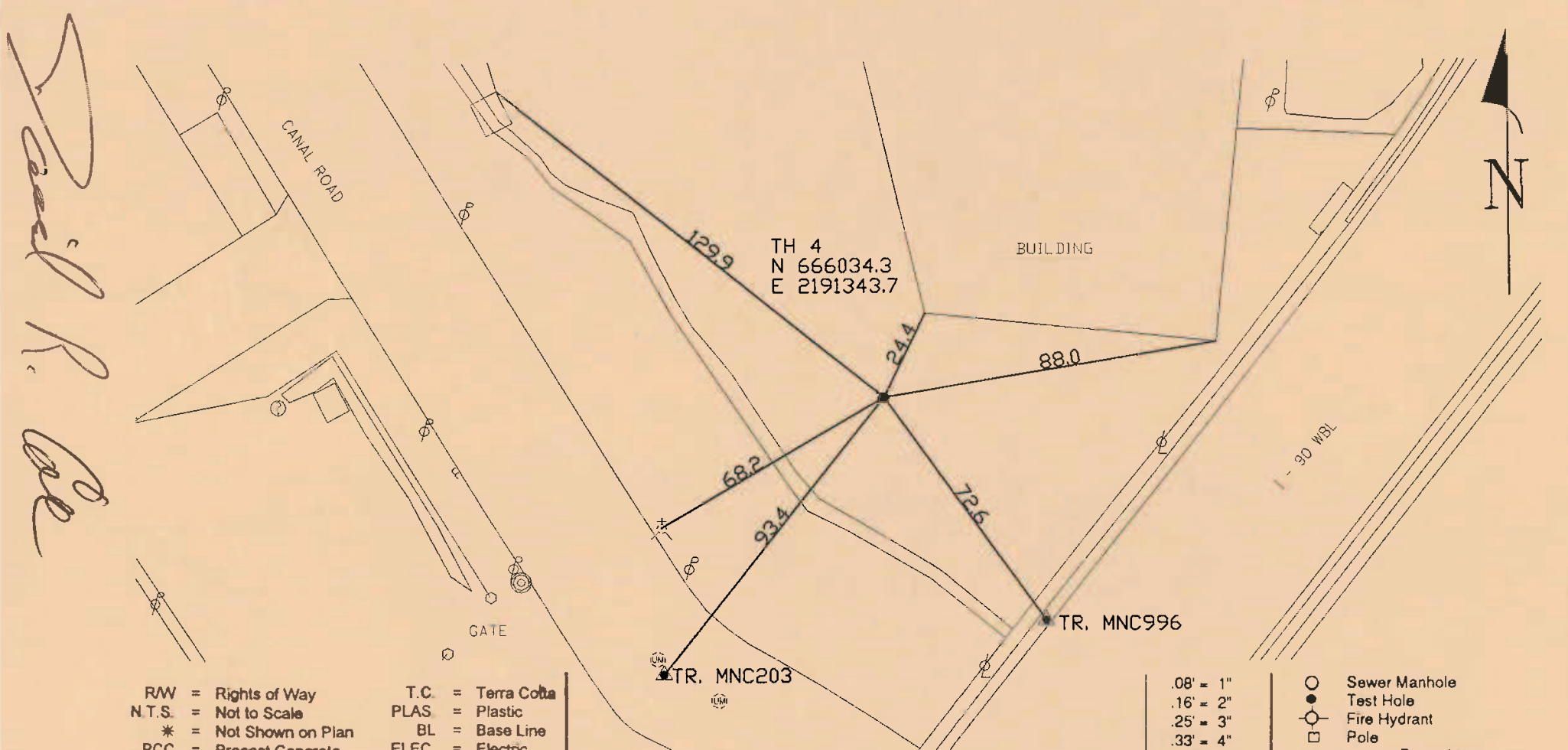
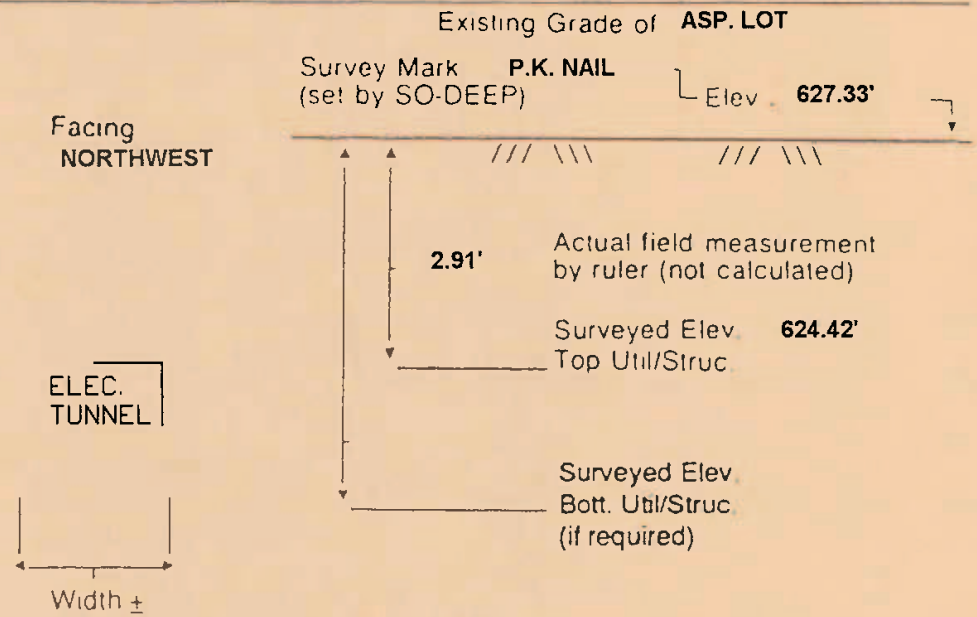
Soil Type STONE

Field Condition ASP. PARKING LOT

T.H. tied to P.K. NAIL

TOP NE EDGE PRECAST CONC. ELEC TUNNEL
 Size/Material/Type
 Portion of pipe exposed for O D measurement
 N/A

Remarks: NONE



- RW = Rights of Way
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- * = Not Shown on Plan
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- COND. = Conduit
- CONC. = Concrete
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- RPC = Rough Pour Concrete
- CL = Centerline
- T.C. = Terra Cotta
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- .83' = 10"
- .92' = 11"
- Sewer Manhole
- Test Hole
- Fire Hydrant
- Pole
- Fence Line
- ⊕ Electric Manhole
- ⊕ T.S. = Traverse Station
- ⊕ Valve
- ⊕ Water Meter
- ⊕ Telephone Manhole
- ⊕ Telephone Pedestal

Test Hole Certification Form

Utility Quality Level A Data

ASCE C/I 38-02

So-Deep Corporate Office
8397 Euclid Avenue
Manassas Park, VA 20111
(703) 361-6005

Control # **EJQC311**
Test Hole # **1**
Plan Scale **1"=20'**
Sheet # **181**
Proposed **GRADE CHANGE**
Date **FEBRUARY 8, 2010**

City, County, State **CUYAHOGA CO., OHIO**
Gen. Loc. **COMMERCIAL ROAD @ I-90 OVERPASS**
Recorded Size/Material/Type **8" STEEL 132KV (C.E.I.) ELEC. LINE**
Foreman/Truck#/Form By **J. CLINE / 219 / P. REYNOLDS**

Condition of paving prior to work
ASPHALT RDWY IN GOOD CONDITION

B.M. 1 Elev. = **658.86'**
is **CALCULATED**

Description: **CHIS "X" SET TOP RIM E.M.H., 31'± RT OF PROPOSED CL STA 17+94±, COMMERCIAL ROAD**

B.M. 2 Elev. = **663.80'**
is **CALCULATED**

Description: **CHIS "X" SET NW BONNET BOLT OF F.H., 19'± LT OF PROPOSED CL STA 18+44±, COMMERCIAL ROAD**

Benchmarks Check **BY 0.01'**
Elevations are referenced to **B.M.#1**

So-Deep will attempt to use the BM/HL most applicable to your design. If however, BMs differ by more than .05', resulting differences could cause design conflicts.

Recorded Size/Type of utility **WAS FOUND**

There **WERE NOT** additional utilities in the test hole

The utility **WAS** in good condition

Paving Thickness and type **6 1/2" ASP. / 9" CONC.**

Color of ribbon installed **RED**

Soil Type **SAND**

Field Condition **MODERATE RD. TRAFFIC**

T.H. tied to **MAG NAIL**

9" COATED STEEL 132 KV (C.E.I.) ELEC. LINE
Size/Material/Type
Portion of pipe exposed for O.D. measurement:
FULL

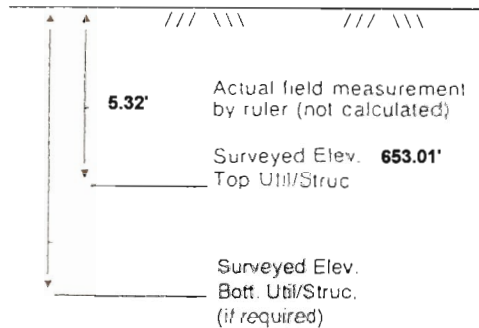
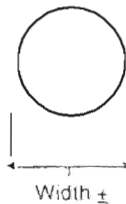
Remarks: **NONE**

J.P.C.
3/14/10

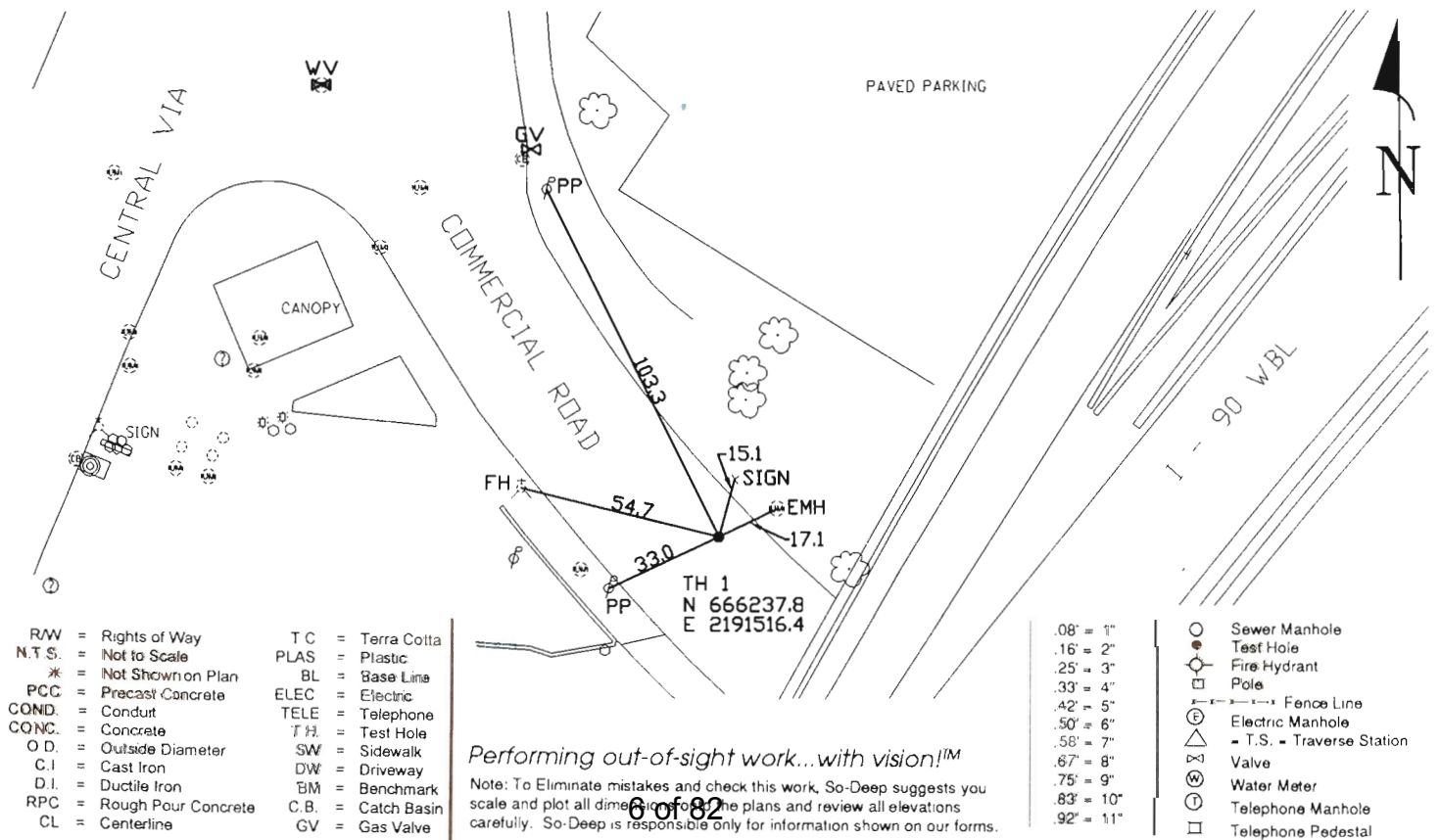
Existing Grade of **ASPHALT RDWY**

Survey Mark **MAG NAIL**
(set by So-Deep) Elev **658.34'**

Facing **NORTHWEST**



TH DUG 14.3'± RT OF PROPOSED CL STA 17+99.9±, COMMERCIAL ROAD



- | | |
|---------------------------|--------------------|
| RW = Rights of Way | TC = Terra Cotta |
| N.T.S. = Not to Scale | PLAS = Plastic |
| * = Not Shown on Plan | BL = Base Line |
| PCC = Precast Concrete | ELEC = Electric |
| COND. = Conduit | TELE = Telephone |
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- | | |
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The Subsurface Utility Engineering Company

4650 Paragon Park Road
Raleigh, NC 27616
(919) 878-7466

Test Hole Certification Form Utility Quality Level A Data

ASCE C/I 38-02

So-Deep Corporate Office
8397 Euclid Avenue
Manassas Park, VA 20111
(703) 361-6005

Control # **EJQC311**
Test Hole # **2**
Plan Scale **1"=20'**
Sheet # **181**
Proposed **GRADE CHANGE**
Date **FEBRUARY 8, 2010**

City, County, State **CUYAHOGA CO., OHIO**
Gen. Loc. **COMMERCIAL ROAD @ I-90 OVERPASS**
Recorded Size/Material/Type **8" STEEL 132KV (C.E.I.) ELEC. LINE**
Foreman/Truck#/Form By **J. CLINE / 219 / P. REYNOLDS**

Condition of paving prior to work
ASPHALT RDWY IN GOOD CONDITION

B.M. 1 Elev. = **658.86'**
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Description: **CHIS "X" SET TOP RIM E.M.H., 31'± RT OF PROPOSED CL STA 17+94±, COMMERCIAL ROAD**

B.M. 2 Elev. = **663.80'**
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Description: **CHIS "X" SET NW BONNET BOLT OF F.H., 19'± LT OF PROPOSED CL STA 18+44±, COMMERCIAL ROAD**

Benchmarks Check **BY 0.01'**
Elevations are referenced to **B.M.#1**

So-Deep will attempt to use the BM/HL most applicable to your design. If however, BMs differ by more than .05', resulting differences could cause design conflicts.

Recorded Size/Type of utility **WAS FOUND**

There **WERE NOT** additional utilities in the test hole

The utility **WAS** in good condition

Paving Thickness and type **8 1/2" ASP. / 9" CONC.**

Color of ribbon installed **RED**

Soil Type **SAND**

Field Condition **MODERATE RD. TRAFFIC**

T.H. tied to **MAG NAIL**

9" COATED STEEL 132 KV (C.E.I.) ELEC. LINE
Size/Material/Type
Portion of pipe exposed for O.D. measurement:
FULL

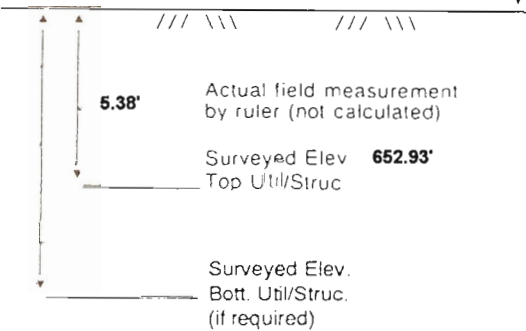
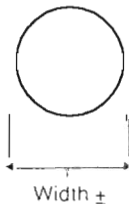
Remarks: **NONE**

Handwritten signature and date: 3/14/10

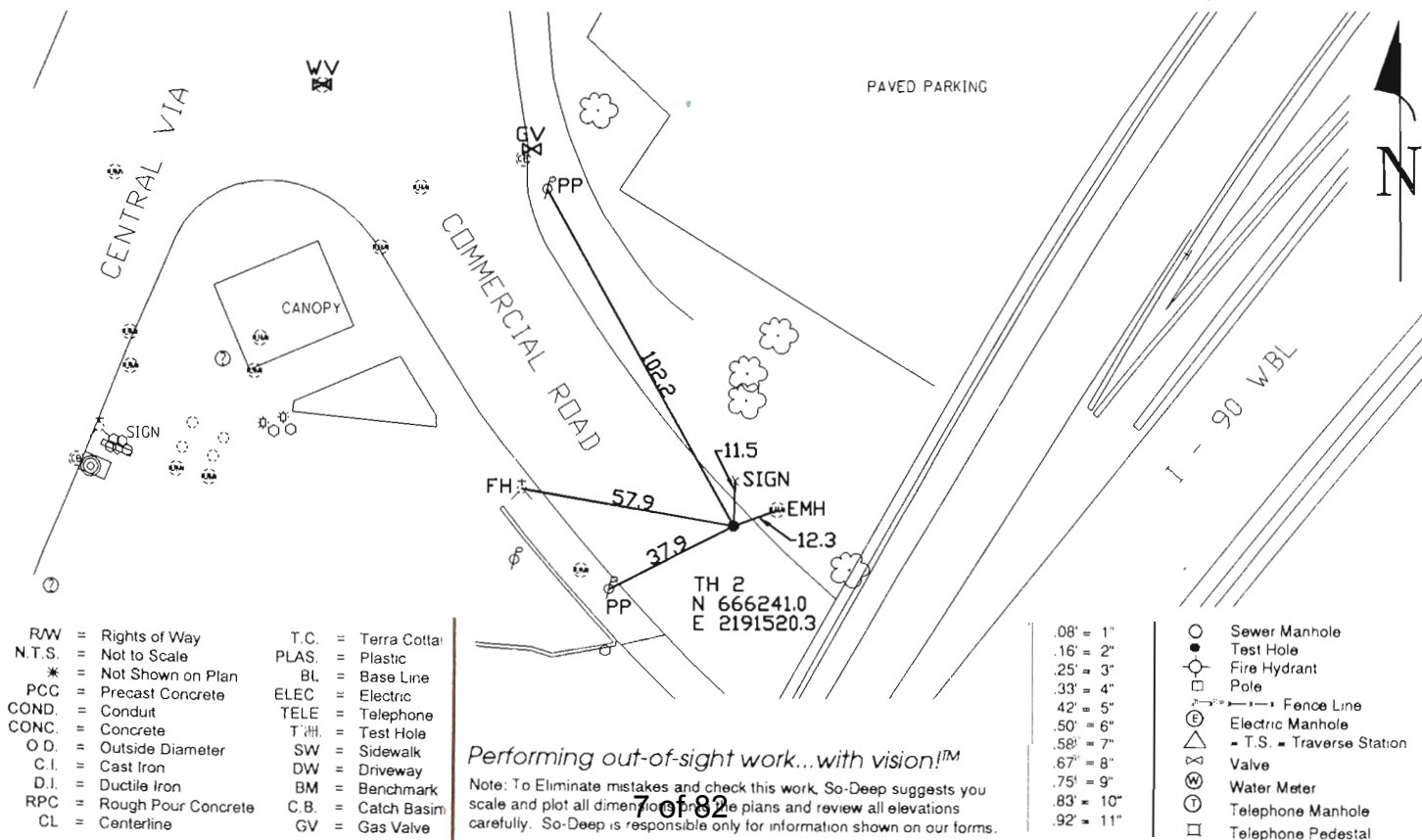
Existing Grade of **ASPHALT RDWY**

Survey Mark **MAG NAIL**
(set by So-Deep) Elev **658.31'**

Facing **NORTHWEST**



TH DUG 19.4'± RT OF PROPOSED CL STA 17+99.5±, COMMERCIAL ROAD



- RW = Rights of Way
- N.T.S. = Not to Scale
- * = Not Shown on Plan
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- COND. = Conduit
- CONC. = Concrete
- O.D. = Outside Diameter
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- .50' = 6"
- .58' = 7"
- .67' = 8"
- .75' = 9"
- .83' = 10"
- .92' = 11"
- = Sewer Manhole
- = Test Hole
- with cross = Fire Hydrant
- with dot = Pole
- = Fence Line
- with cross = Electric Manhole
- T.S. = Traverse Station
- with cross = Valve
- with cross = Water Meter
- with cross = Telephone Manhole
- = Telephone Pedestal

Performing out-of-sight work...with vision!
Note: To Eliminate mistakes and check this work, So-Deep suggests you scale and plot all dimensions on the plans and review all elevations carefully. So-Deep is responsible only for information shown on our forms.



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ASCE C/I 38-02

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(703) 361-6005

Control # **EJQC311**
Test Hole # **3**
Plan Scale **1"=20'**
Sheet # **181**
Proposed **GRADE CHANGE**
Date **FEBRUARY 12, 2010**

City, County, State **CUYAHOGA CO., OHIO**
Gen. Loc. **COMMERCIAL ROAD JUST NW OF I-90 OVERPASS**
Recorded Size/Material/Type **8" STEEL 132KV (C.E.I.) ELEC. LINE**
Foreman/Truck#/Form By **J. CLINE / 219 / P. REYNOLDS**

Condition of paving prior to work
ASPHALT RDWY IN GOOD CONDITION

B.M. 1 Elev. = **658.86'**
is **CALCULATED**

Description: **CHIS "X" SET TOP RIM E.M.H., 31'± RT OF PROPOSED CL STA 17+94±, COMMERCIAL ROAD**

B.M. 2 Elev. = **663.80'**
is **CALCULATED**

Description: **CHIS "X" SET NW BONNET BOLT OF F.H., 19'± LT OF PROPOSED CL STA 18+44±, COMMERCIAL ROAD**

Benchmarks Check **BY 0.00'**
Elevations are referenced to **B.M.#1**

So-Deep will attempt to use the BM/Hi most applicable to your design. If however, BMs differ by more than .05', resulting differences could cause design conflicts.

Recorded Size/Type of utility **WAS FOUND**

Existing Grade of **ASPHALT RDWY**

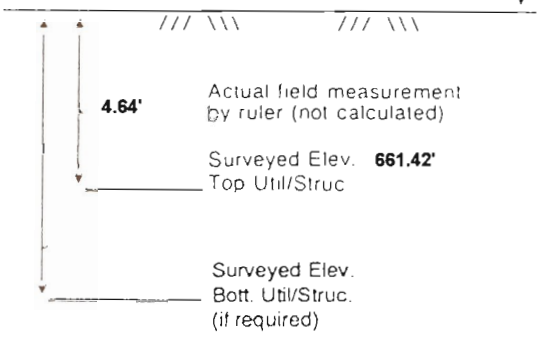
There **WERE** additional utilities in the test hole

Survey Mark **MAG NAIL**
(set by So-Deep) Elev. **666.05'**

The utility **WAS** in good condition

Facing **SOUTHEAST**

Paving Thickness and type **3 1/2" ASP. / 12" CONC.**



Color of ribbon installed **RED**



Soil Type **SAND**

Field Condition **MODERATE RD. TRAFFIC**

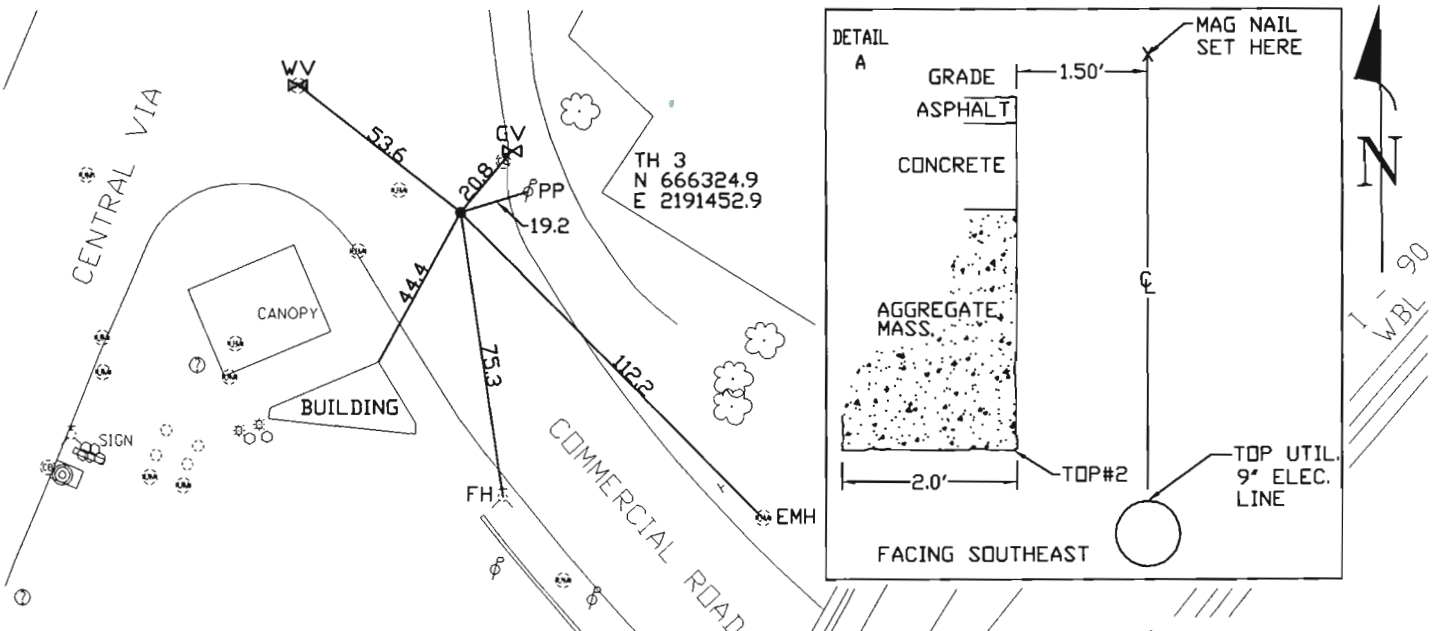
T.H. tied to **MAG NAIL**

9" COATED STEEL 132 KV (C.E.I.) ELEC. LINE *
Size/Material/Type
Portion of pipe exposed for O.D. measurement:
FULL

TOP#2
ELEV. **661.99**
ACTUAL **4.03**

Remarks: *** CREW ALSO FOUND AN AGGREGATE FILL FOR A (M.C.I.) FIBER OPTIC TELE. DUCT RUNNING ABOVE AND IN A NORTHERLY DIRECTION FROM THE 9" ELEC. LINE. ELECTRONIC DESIGNATING, TOPSIDE SURVEY & UTILITY RECORDS RESEARCH ALL INDICATE THE (M.C.I.) F.O. TELE DUCT IS CONTAINED WITHIN OR LIES DIRECTLY BENEATH THE AGGREGATE FILL. ROD READING #2 TAKEN AT BOTTOM OF AGGREGATE.**

TH DUG 18.5'± RT OF PROPOSED CL STA 19+08.0±, COMMERCIAL ROAD



- | | |
|---------------------------|--------------------|
| RAW = Rights of Way | T.C. = Terra Cotta |
| N.T.S. = Not to Scale | PLAS. = Plastic |
| * = Not Shown on Plan | BL = Base Line |
| PCC = Precast Concrete | ELEC. = Electric |
| COND. = Conduit | TELE = Telephone |
| CONC. = Concrete | T.H. = Test Hole |
| O.D. = Outside Diameter | SW = Sidewalk |
| C.I. = Cast Iron | DWV = Driveway |
| D.I. = Ductile Iron | B.M. = Benchmark |
| RPC = Rough Pour Concrete | C.B. = Catch Basin |
| CL = Centerline | GV = Gas Valve |

*Performing out-of-sight work...with vision!*TM
Note: To Eliminate mistakes and check this work, So-Deep suggests you scale and plot all dimensions on the plans and review all elevations carefully. So-Deep is responsible only for information shown on our forms.

- | | |
|------------|-----------------------------|
| .08" = 1" | ○ = Sewer Manhole |
| .16" = 2" | ● = Test Hole |
| .25" = 3" | ⊕ = Fire Hydrant |
| .33" = 4" | ⊙ = Pole |
| .42" = 5" | — — — = Fence Line |
| .50" = 6" | ⊕ = Electric Manhole |
| .58" = 7" | ⊕ = T.S. = Traverse Station |
| .67" = 8" | ⊕ = Valve |
| .75" = 9" | ⊕ = Water Meter |
| .83" = 10" | ⊕ = Telephone Manhole |
| .92" = 11" | ⊕ = Telephone Pedestal |

Test Hole Certification Form

Utility Quality Level A Data

ASCE C/I 38-02

So-Deep Corporate Office
8397 Euclid Avenue
Manassas Park, VA 20111
(703) 361-6005

Control # **EJQC311**
Test Hole # **4**
Plan Scale **1"=20'**
Sheet # **181**
Proposed **GRADE CHANGE**
Date **FEBRUARY 8, 2010**

City, County, State **CUYAHOGA CO., OHIO**
Gen. Loc. **COMMERCIAL ROAD JUST NW OF I-90 OVERPASS**
Recorded Size/Material/Type **8" STEEL 132KV (C.E.I.) ELEC. LINE**
Foreman/Truck#/Form By **J. CLINE / 219 / P. REYNOLDS**

Condition of paving prior to work
ASPHALT RDWY IN GOOD CONDITION

B.M. 1 Elev. = **658.86'**
is **CALCULATED**

Description: **CHIS "X" SET TOP RIM E.M.H., 31"± RT OF PROPOSED CL STA 17+94±, COMMERCIAL ROAD**

B.M. 2 Elev. = **663.80'**
is **CALCULATED**

Description: **CHIS "X" SET NW BONNET BOLT OF F.H., 19"± LT OF PROPOSED CL STA 18+44±, COMMERCIAL ROAD**

Benchmarks Check **BY 0.00'**
Elevations are referenced to **B.M.#1**

So-Deep will attempt to use the BM/HL most applicable to your design. If however, BMs differ by more than .05', resulting differences could cause design conflicts.

Recorded Size/Type of utility **WAS FOUND**

There **WERE NOT** additional utilities in the test hole

The utility **WAS** in good condition

Paving Thickness and type **4" ASP. / 9" CONC.**

Color of ribbon installed **RED**

Soil Type **SAND**

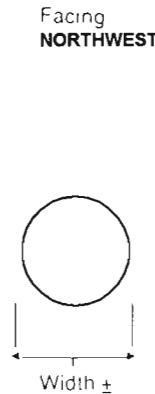
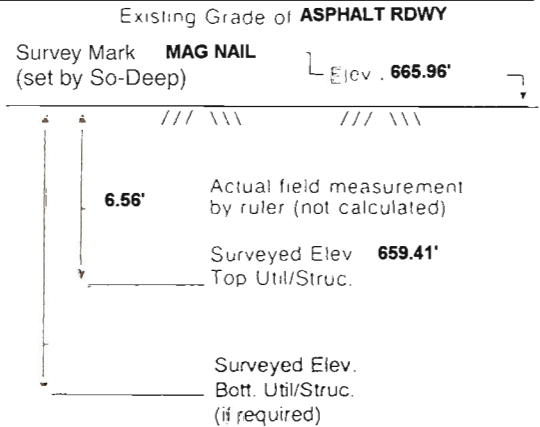
Field Condition **MODERATE RD. TRAFFIC**

T.H. tied to **MAG NAIL**

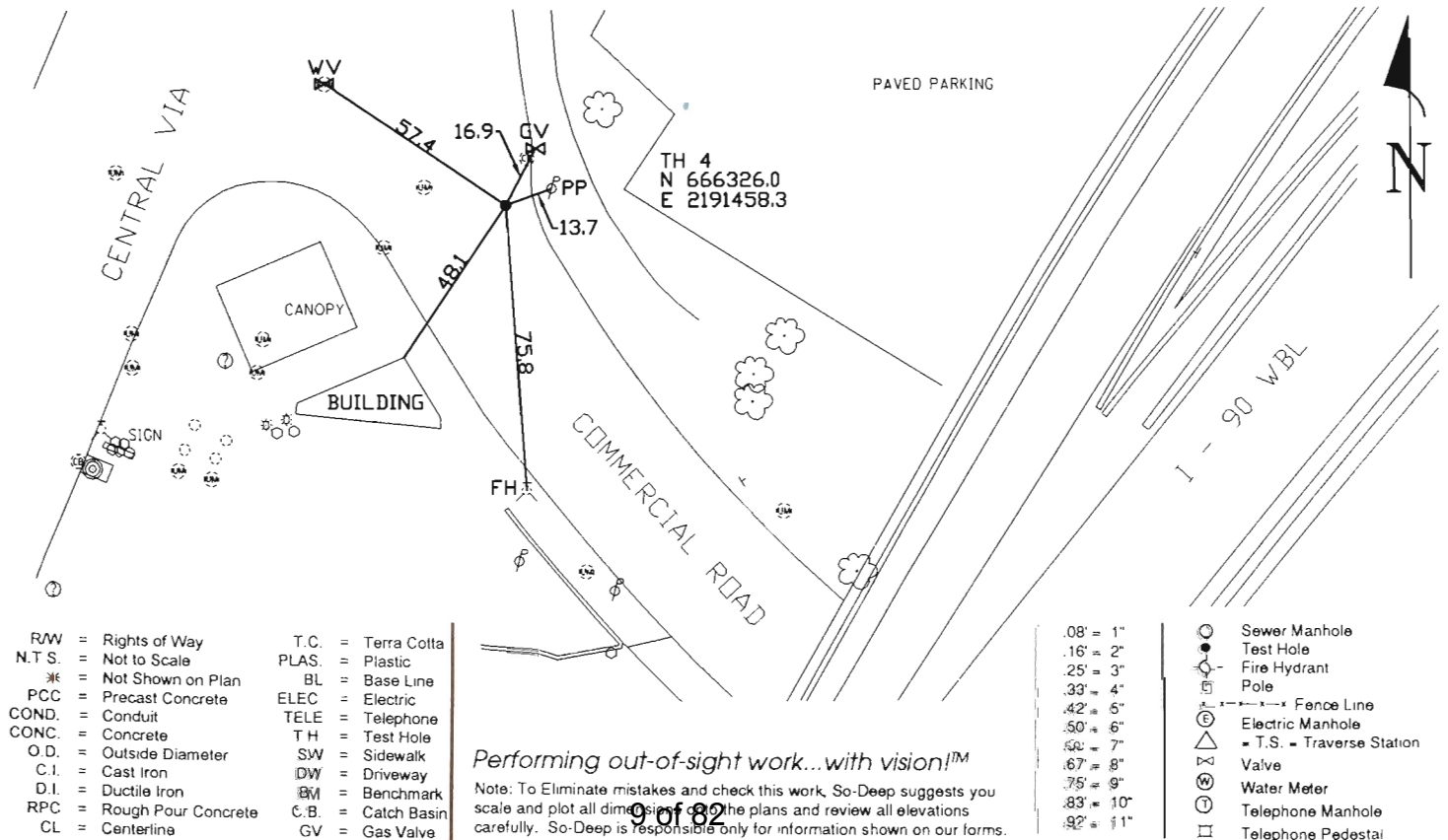
9" COATED STEEL 132 KV (C.E.I.) ELEC. LINE
Size/Material/Type
Portion of pipe exposed for O.D. measurement:
FULL

Remarks: **NONE**

Handwritten signature and date: J. Cline 2/11/10



TH DUG 23.3'± RT OF PROPOSED CL STA 19+05.5±, COMMERCIAL ROAD



- | | |
|---------------------------|--------------------|
| RAW = Rights of Way | T.C. = Terra Colla |
| N.T.S. = Not to Scale | PLAS. = Plastic |
| * = Not Shown on Plan | BL = Base Line |
| PCC = Precast Concrete | ELEC = Electric |
| COND. = Conduit | TELE = Telephone |
| CONC. = Concrete | TH = Test Hole |
| O.D. = Outside Diameter | SW = Sidewalk |
| C.I. = Cast Iron | DW = Driveway |
| D.I. = Ductile Iron | BM = Benchmark |
| RPC = Rough Pour Concrete | C.B. = Catch Basin |
| CL = Centerline | GV = Gas Valve |

- | | |
|------------|-----------------------------|
| 0.8" = 1" | ⊗ = Sewer Manhole |
| .16" = 2" | ⊙ = Test Hole |
| .25" = 3" | ⊕ = Fire Hydrant |
| .33" = 4" | ⊖ = Pole |
| .42" = 5" | ⊗ = Fence Line |
| .50" = 6" | ⊕ = Electric Manhole |
| .60" = 7" | ⊖ = T.S. = Traverse Station |
| .67" = 8" | ⊕ = Valve |
| .75" = 9" | ⊕ = Water Meter |
| .83" = 10" | ⊕ = Telephone Manhole |
| .92" = 11" | ⊕ = Telephone Pedestal |

Performing out-of-sight work...with vision!™

Note: To Eliminate mistakes and check this work, So-Deep suggests you scale and plot all dimensions of the plans and review all elevations carefully. So-Deep is responsible only for information shown on our forms.



The Subsurface Utility Engineering Company
 4650 Paragon Park Road
 Raleigh, NC 27616
 (919) 878-7466

So-Deep Test Hole Certification Form

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So-Deep Corporate Office
 8397 Euclid Avenue
 Manassas Park, VA 20111
 (703)361-6005

Control # **EJQC311**
 Test Hole # **5**
 Plan Scale **1"=20'**
 Sheet # **172**
 Proposed **GRADE CHANGE**
 Date **FEBRUARY 12, 2010**

City, County, State **CUYAHOGA CO., OHIO**
 Gen. Loc. **CENTRAL VIA JUST S. OF CARNEGIE AVE.**
 Recorded Size/Material/Type **8" STEEL 132KV (C.E.I.) ELEC. LINE**
 Foreman/Truck#/Form By **J. CLINE / 219 / P. REYNOLDS**

Condition of paving prior to work
ASPHALT RDWY IN GOOD CONDITION

B.M. 1 Elev. = **658.86'**
 is **CALCULATED**

B.M. 2 Elev. = **663.80'**
 is **CALCULATED**

Description: **CHIS "X" SET TOP RIM E.M.H., 31± RT OF PROPOSED CL STA 17+94±, COMMERCIAL ROAD**

Description: **CHIS "X" SET NW BONNET BOLT OF F.H., 19± LT OF PROPOSED CL STA 18+44±, COMMERCIAL ROAD**

SO-DEEP will attempt to use the BM/Hi most applicable to your design. If however, BMs differ by more than .05', resulting differences could cause design conflicts.

Benchmarks check **BY 0.00'**
 Elevations are referenced to **B.M.#1**

Recorded Size/Type of utility **WAS FOUND**

Existing Grade of **ASPHALT RDWY**

There **WERE NOT** additional utilities in the test hole

The utility **WAS** in good condition

Paving Thickness and type **6" ASP. / 12" CONC.**

Color of ribbon installed **RED**

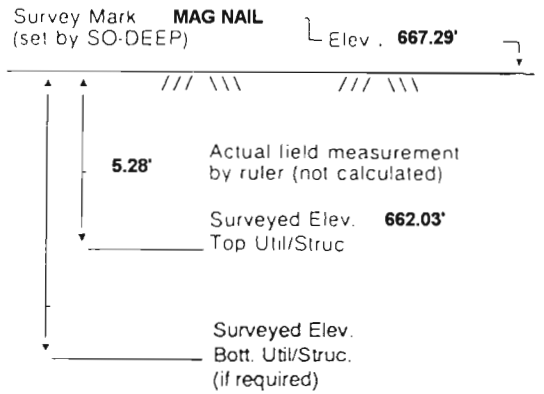
Soil Type **SAND**

Field Condition **MODERATE RD. TRAFFIC**

T.H. tied to **MAG NAIL**

9" COATED STEEL 132 KV (C.E.I.) ELEC. LINE
 Size/Material/Type
 Portion of pipe exposed for O.D. measurement.
FULL

Remarks: **NONE**

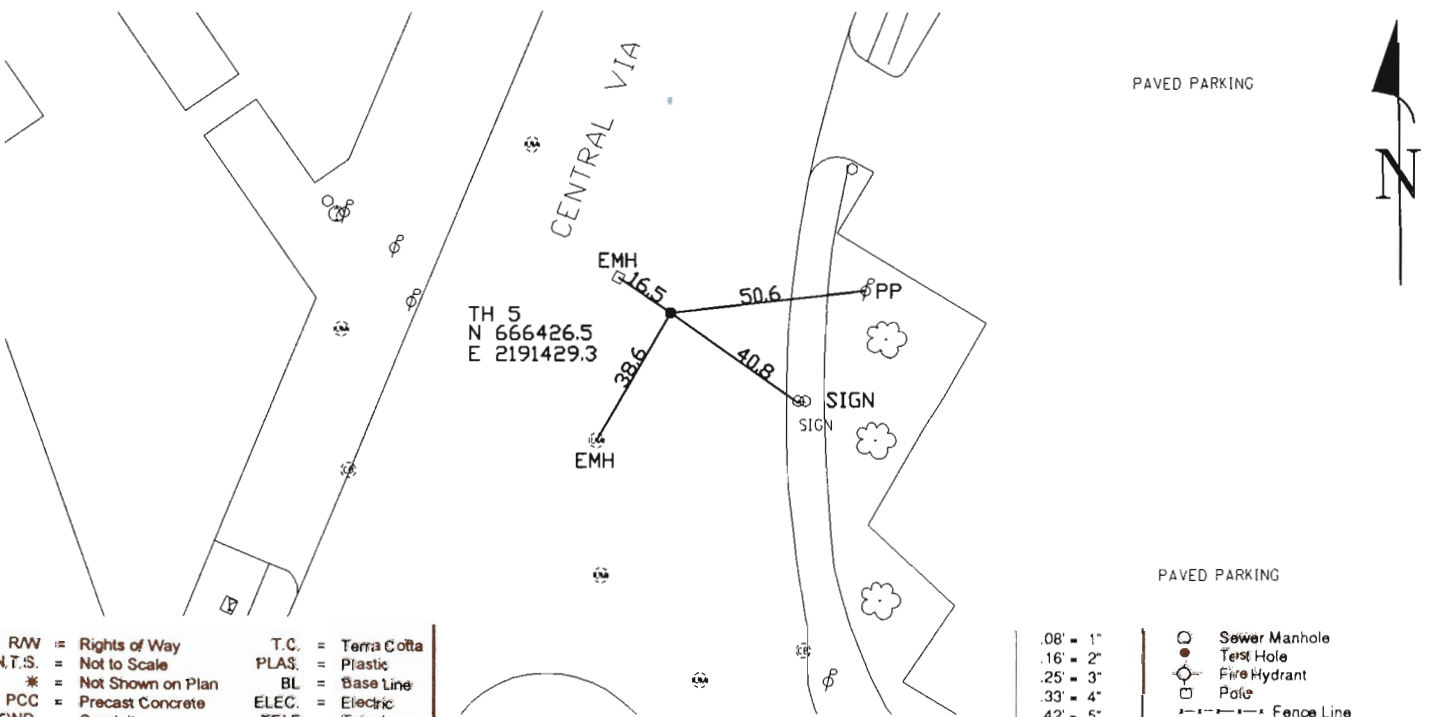


Facing **NORTH**



Handwritten signature and date: 3/4/10

TH DUG 35.2± RT OF PROPOSED CL STA 102+50.3±, CENTRAL VIA



- | | |
|---------------------------|--------------------|
| RAW = Rights of Way | T.C. = Terra Cotta |
| N.T.S. = Not to Scale | PLAS. = Plastic |
| * = Not Shown on Plan | BL = Base Line |
| PCC = Precast Concrete | ELEC. = Electric |
| COND. = Conduit | TELE = Telephone |
| CONC. = Concrete | T.H. = Test Hole |
| O.D. = Outside Diameter | SW = Sidewalk |
| C.I. = Cast Iron | DW = Driveway |
| D.I. = Ductile Iron | BM = Benchmark |
| RPC = Rough Pour Concrete | C.B. = Catch Basin |
| CL = Centerline | GV = Gas Valve |

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Note: To Eliminate mistakes and check this work, So-Deep suggests you scale and plot all dimensions on all plans and review all elevations carefully. So-Deep is responsible only for information shown on our forms.

- | | |
|------------|-----------------------------|
| .08" = 1" | ⊗ = Sewer Manhole |
| .16" = 2" | ● = Test Hole |
| .25" = 3" | ⊕ = Fire Hydrant |
| .33" = 4" | ⊖ = Pole |
| .42" = 5" | ⊘ = Fence Line |
| .50" = 6" | ⊙ = Electric Manhole |
| .58" = 7" | ⊚ = T.S. = Traverse Station |
| .67" = 8" | ⊛ = Valve |
| .75" = 9" | ⊜ = Water Meter |
| .83" = 10" | ⊝ = Telephone Manhole |
| .92" = 11" | ⊞ = Telephone Pedestal |



The Subsurface Utility Engineering Company
4650 Paragon Park Road
Raleigh, NC 27616
(919) 878-7466

So-Deep Test Hole Certification Form

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So-Deep Corporate Office
8397 Euclid Avenue
Manassas Park, VA 20111
(703)361-6005

Control # **EJQC311**
Test Hole # **6**
Plan Scale **1"=20'**
Sheet # **172**
Proposed **GRADE CHANGE**
Date **FEBRUARY 12, 2010**

City, County, State **CUYAHOGA CO., OHIO**
Gen. Loc **CENTRAL VIA JUST S. OF CARNEGIE AVE.**
Recorded Size/Material/Type **8" STEEL 132KV (C.E.I.) ELEC. LINE**
Foreman/Truck#/Form By **J. CLINE / 219 / P. REYNOLDS**

Condition of paving prior to work
ASPHALT RDWY IN GOOD CONDITION

B.M. 1 Elev = **658.86'**
IS **CALCULATED**

Description **CHIS "X" SET TOP RIM E.M.H., 31'± RT OF PROPOSED CL STA 17+94±, COMMERCIAL ROAD**

B.M. 2 Elev = **663.80'**
IS **CALCULATED**

Description **CHIS "X" SET NW BONNET BOLT OF F.H., 19'± LT OF PROPOSED CL STA 18+44±, COMMERCIAL ROAD**

SO-DEEP will attempt to use the B.M.H. most applicable to your design. If however, B.M.s differ by more than .05', resulting differences could cause design conflicts.

Benchmarks check **BY 0.00'**
Elevations are referenced to **B.M.#1**

Recorded Size/Type of utility **WAS FOUND**

Existing Grade of **ASPHALT RDWY**

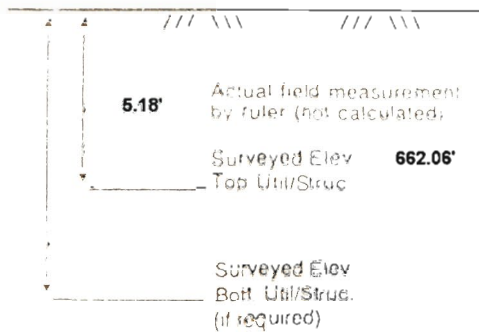
There **WERE NOT** additional utilities in the test hole

Survey Mark **MAG NAIL**
(set by SO-DEEP) Elev **667.22'**

The utility **WAS** in good condition

Facing **NORTH**

Paving Thickness and type **8" ASP. / 7" CONC.**



Color of ribbon installed **RED**

Soil Type **SAND**

Field Condition **MODERATE RD. TRAFFIC**

T.H. tied to **MAG NAIL**

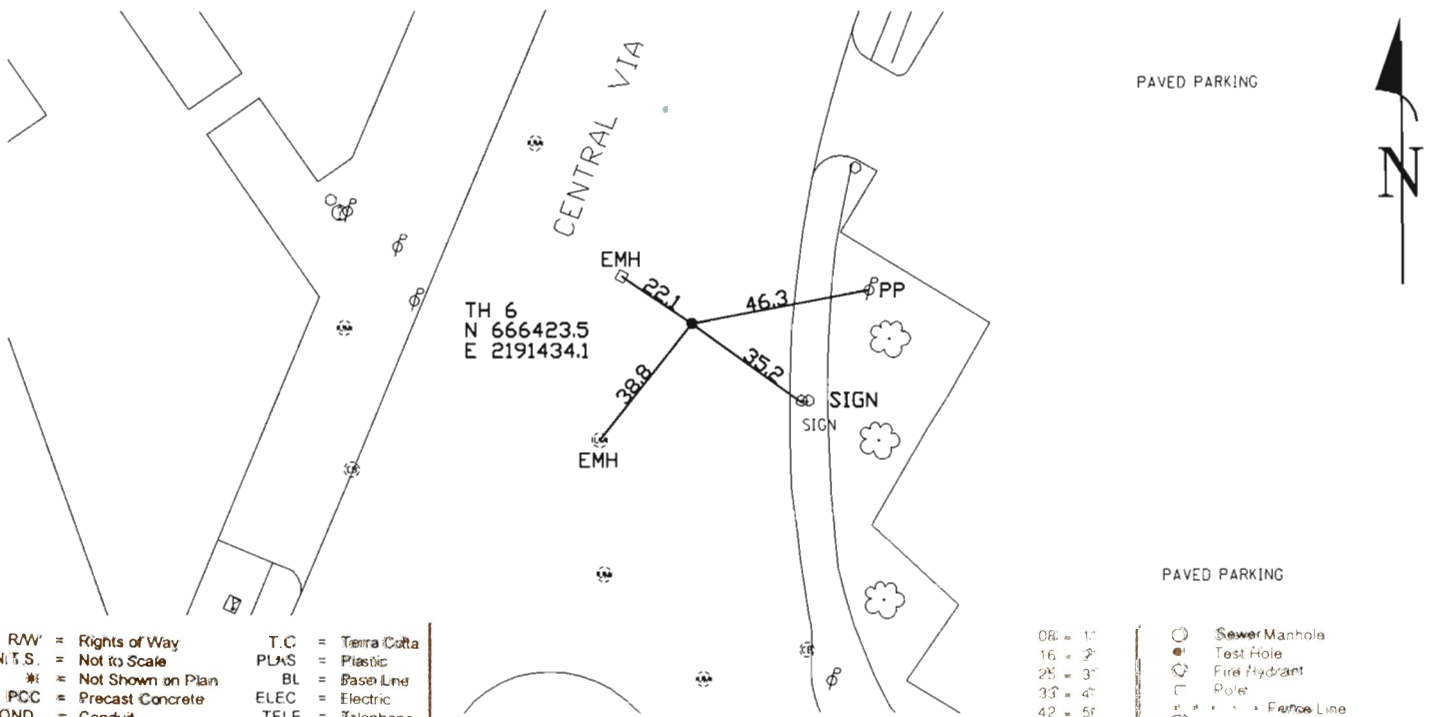


9" COATED STEEL 132 KV (C.E.I.) ELEC. LINE
Size/Material/Type
Portion of pipe exposed for O.D. measurement
FULL

Remarks: **NONE**

Handwritten signature/initials

TH DUG 40.7'± RT OF PROPOSED CL STA 102+49.5±, CENTRAL VIA



- | | |
|------------------------------|--------------------|
| R.W. = Rights of Way | T.C. = Terra Cotta |
| N.T.S. = Not to Scale | PLAS = Plastic |
| * = Not Shown on Plan | BL = Base Line |
| PC = Precast Concrete | ELEC = Electric |
| COND. = Conduit | TELE = Telephone |
| CONC. = Concrete | T.H. = Test Hole |
| O.D. = Outside Diameter | SW = Sidewalk |
| C.I. = Cast Iron | D.V. = Driveway |
| D.I. = Ductile Iron | BM = Benchmark |
| R.P.C. = Rough Pour Concrete | C.B. = Catch Basin |
| CL = Centerline | GV = Gas Valve |

- | | |
|-----------|-----------------------------|
| 08" = 1" | ⊙ = Sewer Manhole |
| 16" = 2" | ⊙ = Test Hole |
| 25" = 3" | ⊙ = Fire Hydrant |
| 33" = 4" | ⊙ = Pole |
| 42" = 5" | ⊙ = Fence Line |
| 50" = 6" | ⊙ = Electric Manhole |
| 58" = 7" | ⊙ = T.S. = Traverse Station |
| 67" = 8" | ⊙ = Valve |
| 75" = 9" | ⊙ = Water Meter |
| 83" = 10" | ⊙ = Telephone Manhole |
| 92" = 11" | ⊙ = Telephone Pedestal |

Performing out-of-sight work...with vision!SM
Note: To Eliminate mistakes and check this work, So-Deep suggests you scale and plot all dimensions onto the plans and review all elevations carefully. So-Deep is responsible for information shown on our forms.



The Subsurface Utility Engineering Company
4650 Paragon Park Road
Raleigh, NC 27616
(919) 878-7466

So-Deep Test Hole Certification Form

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So-Deep Corporate Office
8397 Euclid Avenue
Manassas Park, VA 20111
(703)361-6005

Control # **EJQC311**
Test Hole # **7**
Plan Scale **1"=20'**
Sheet # **163**
Proposed **GRADE CHANGE**
Date **FEBRUARY 23, 2010**

City, County, State **CUYAHOGA CO., OHIO**
Gen. Loc **CENTRAL VIA @ CARNEGIE AVE.**
Recorded Size/Material/Type **8" STEEL 132KV (C.E.I.) ELEC. LINE**
Foreman/Truck#/Form By **J. CLINE / 219 / P. REYNOLDS**

Condition of paving prior to work
ASPHALT RDWY IN GOOD CONDITION

B.M. 1 Elev = **669.21'**
is **CALCULATED**

Description: **CHIS "X" SET NW BONNET BOLT OF F.H., 66± LT OF PROPOSED CL STA 15+98±, CARNEGIE AVE.**

B.M. 2 Elev = **668.80'**
is **CALCULATED**

Description: **CHIS "X" TOP RIM T.M.H., 37± RT OF PROPOSED CL STA 18+23±, CARNEGIE AVE.**

SO DEEP will attempt to use the BM/HI most applicable to your design. If however, BMs differ by more than .05', resulting differences could cause design conflicts.

Benchmarks check **BY 0.02'**
Elevations are referenced to **B.M.#2**

Recorded Size/Type of utility **WAS FOUND**

There **WERE NOT** additional utilities in the test hole

The utility **WAS** in good condition

Paving Thickness and type **2" ASP./7" CONC.**

Color of ribbon installed **RED**

Soil Type **SAND & DEBRIS**

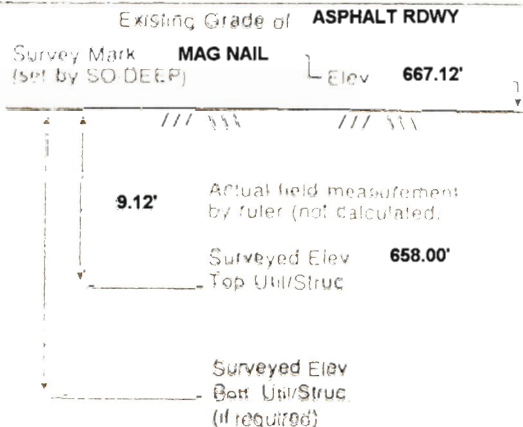
Field Condition **MODERATE RD. TRAFFIC**

T.H. tied to **MAG NAIL**

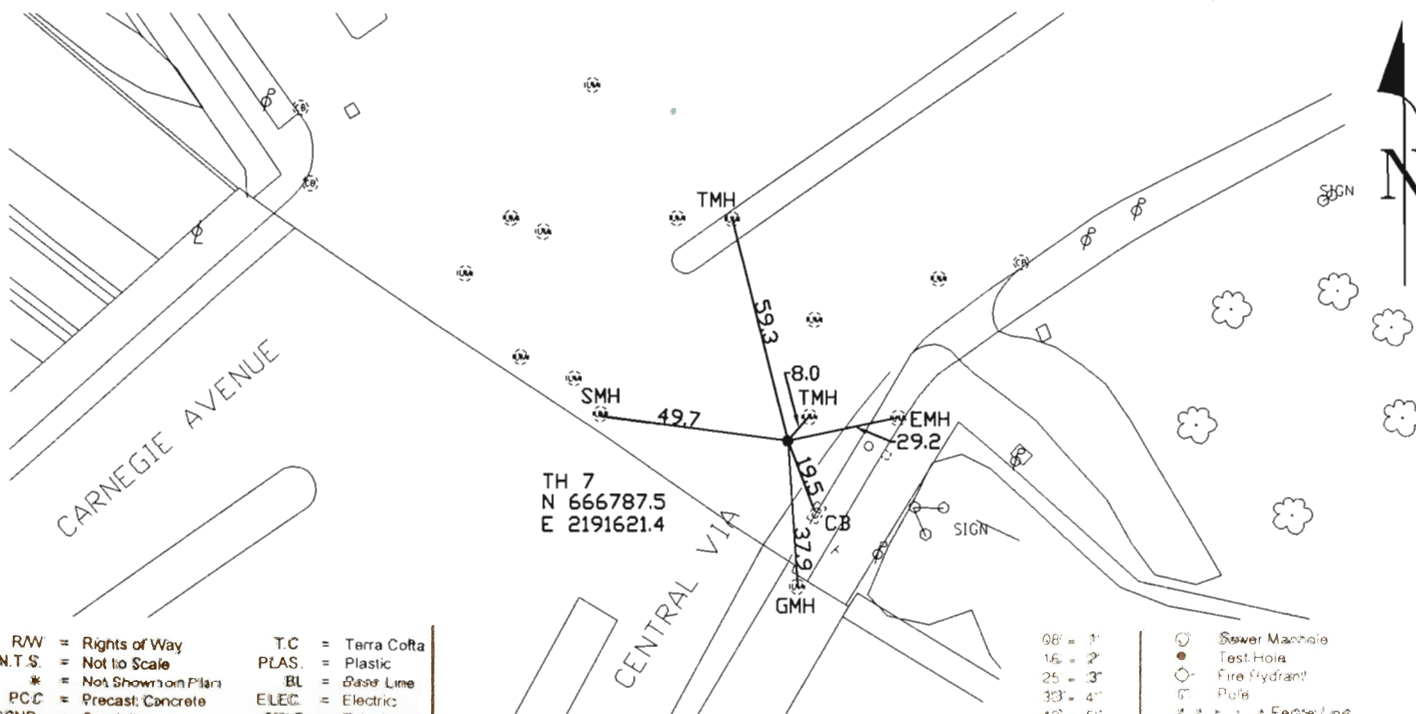
9" COATED STEEL 132 KV (C.E.I.) ELEC. LINE
Size/Material/Type
Portion of pipe exposed for O.D. measurement
FULL

Remarks: **NONE**

J.P.C.
3/14/10



TH DUG 65.8'± RT OF PROPOSED CL STA 15+39.4±, CARNEGIE AVE.



- R/W = Rights of Way
- N.T.S. = Not to Scale
- * = Not Shown on Plan
- P.C.C. = Precast Concrete
- CQND. = Conduit
- CONC. = Concrete
- O.D. = Outside Diameter
- C.I. = Cast Iron
- D.I. = Ductile Iron
- RPC = Rough Pour Concrete
- CL = Centeline
- T.C. = Terra Cotta
- PLAS. = Plastic
- BL = Base Line
- ELEC. = Electric
- TELE. = Telephone
- T.H. = Test Hole
- SW = Sidewalk
- DW = Dimeyway
- BM = Benchmark
- C.B. = Catch Basin
- GV = Gas Valve

- 06" = 1'
- 16" = 2'
- 25" = 3'
- 33" = 4'
- 42" = 5'
- 50" = 6'
- 58" = 7'
- 62" = 8'
- 75" = 9'
- 83" = 10'
- 92" = 11'
- ⊙ = Sewer Manhole
- = Test Hole
- ⊕ = Fire Hydrant
- ⊖ = Pole
- ⊙ = Fertilizer Line
- ⊖ = Electric Manhole
- ⊙ = T.S. = Traverse Station
- ⊖ = Valve
- ⊙ = Water Meter
- ⊖ = Telephone Manhole
- ⊙ = Telephone Pedestal

Performing out-of-sight work... with vision!SM
Note: To Eliminate mistakes and check this work, So-Deep suggests you scale and plot all dimensions onto the plans and review all elevations carefully. So-Deep is not responsible for information shown on our forms.



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 4650 Paragon Park Road
 Raleigh, NC 27616
 (919) 878-7466

So-Deep Test Hole Certification Form

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So-Deep Corporate Office
 8397 Euclid Avenue
 Manassas Park, VA 20111
 (703)361-6005

Control # **EJQC311**
 Test Hole # **8**
 Plan Scale **1"=20'**
 Sheet # **163**
 Proposed **GRADE CHANGE**
 Date **FEBRUARY 23, 2010**

City, County, State **CUYAHOGA CO., OHIO**
 Gen. Loc. **CENTRAL VIA @ CARNEGIE AVE.**
 Recorded Size/Material/Type **8" STEEL 132KV (C.E.I.) ELEC. LINE**
 Foreman/Truck#/Form By **J. CLINE / 219 / P. REYNOLDS**

Condition of paving prior to work
ASPHALT RDWY IN GOOD CONDITION

B.M. 1 Elev = **669.21'**
 is **CALCULATED**

Description: **CHIS "X" SET NW BONNET BOLT OF F.H., 66± LT OF PROPOSED CL STA 15+98±, CARNEGIE AVE.**

B.M. 2 Elev = **668.80'**
 is **CALCULATED**

Description: **CHIS "X" TOP RIM T.M.H., 37± RT OF PROPOSED CL STA 18+23±, CARNEGIE AVE.**

SO-DEEP will attempt to use the BM/HL most applicable to your design. If however, BMs differ by more than .05', resulting differences could cause design conflicts.

Benchmarks check **BY 0.02'**
 Elevations are referenced to **B.M.#2**

Recorded Size/Type of utility **WAS FOUND**

Existing Grade of **ASPHALT RDWY**

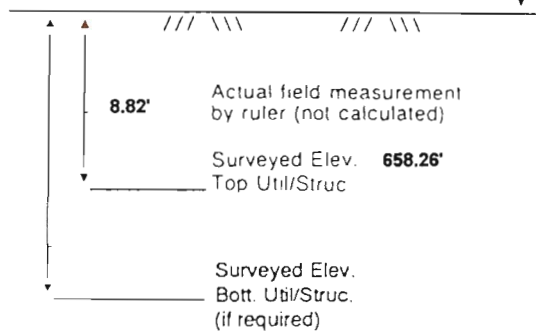
There **WERE NOT** additional utilities in the test hole

Survey Mark **MAG NAIL**
 (set by SO-DEEP) Elev. **667.06'**

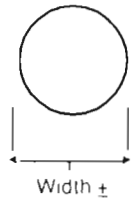
The utility **WAS** in good condition.

Facing **NORTHEAST**

Paving Thickness and type **8" ASP. / 5" CONC.**



Color of ribbon installed **RED**



Soil Type **SAND & DEBRIS**

Field Condition **MODERATE RD. TRAFFIC**

T.H. tied to **MAG NAIL**

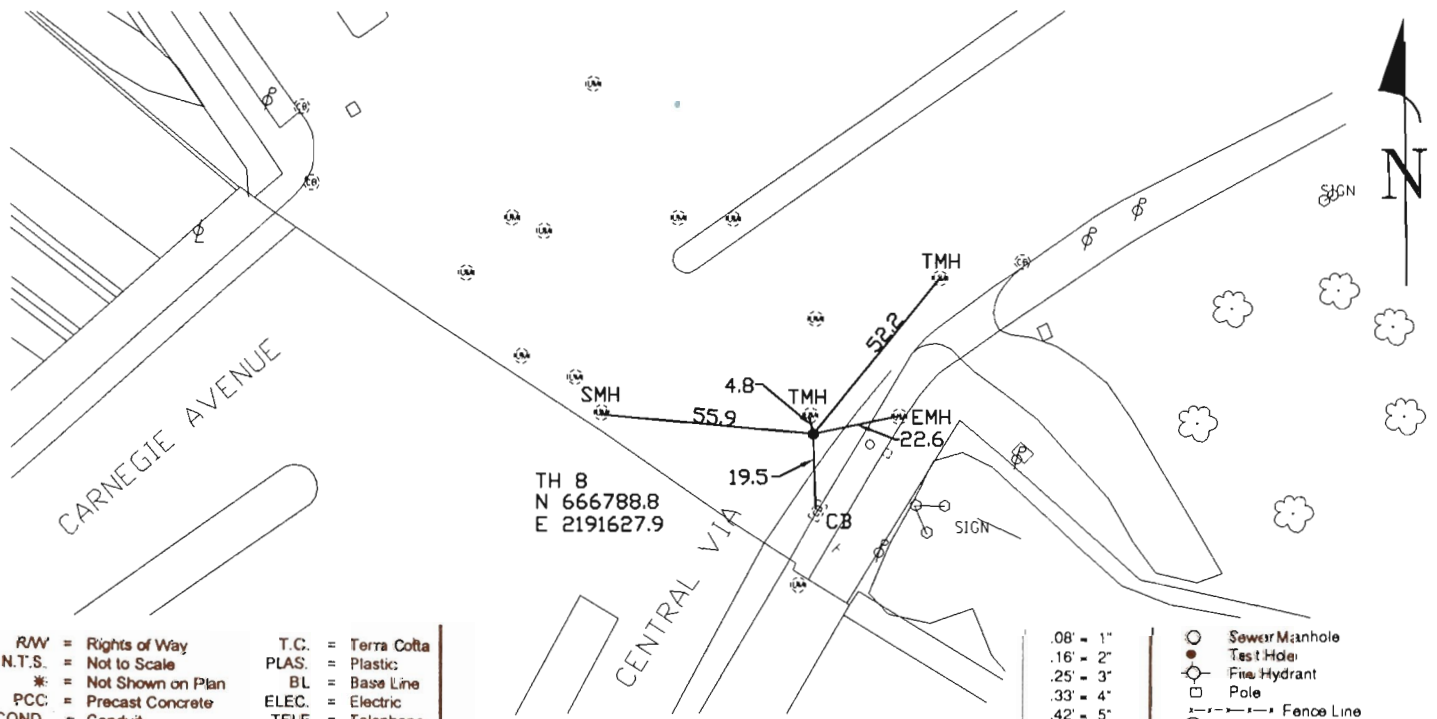
9" COATED STEEL 132 KV (C.E.I.) ELEC. LINE
 Size/Material/Type
 Portion of pipe exposed for O.D. measurement

FULL

Remarks: **NONE**

Handwritten signature and date: J. Cline 3/14/10

TH DUG **68.0± RT OF PROPOSED CL STA 15+45.6±, CARNEGIE AVE.**



- | | |
|----------------------------------|---------------------------|
| R/W = Rights of Way | T.C. = Terra Cotta |
| N.T.S. = Not to Scale | PLAS. = Plastic |
| * = Not Shown on Plan | BL = Base Line |
| P.C.C. = Precast Concrete | ELEC. = Electric |
| COND. = Conduit | TELE = Telephone |
| CONC. = Concrete | T.H. = Test Hole |
| O.D. = Outside Diameter | SW = Sidewalk |
| C.I. = Cast Iron | DW = Driveway |
| D.I. = Ductile Iron | BM = Benchmark |
| RPC = Rough Pour Concrete | C.B. = Catch Basin |
| CL = Centerline | GV = Gas Valve |

Performing out-of-sight work...with vision!
 Note: To Eliminate mistakes and check this work, So-Deep suggests you scale and plot all dimensions on utility plans and review all elevations carefully. So-Deep is responsible only for information shown on our forms.

- | | | |
|-------------------|--|-------------------------|
| .08' - 1" | | Sewer Manhole |
| .16' - 2" | | Test Hole |
| .25' - 3" | | Fire Hydrant |
| .33' - 4" | | Pole |
| .42' - 5" | | Fence Line |
| .50' - 6" | | Electric Manhole |
| .58' - 7" | | T.S. - Traverse Station |
| .67' - 8" | | Valve |
| .75' - 9" | | Water Meter |
| .83' - 10" | | Telephone Manhole |
| .92' - 11" | | Telephone Pedestal |



The Subsurface Utility Engineering Company
 4650 Paragon Park Road
 Raleigh, NC 27616
 (919) 878-7466

So-Deep Test Hole Certification Form

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So-Deep Corporate Office
 8397 Euclid Avenue
 Manassas Park, VA 20111
 (703)361-6005

Control # **EJQC311**
 Test Hole # **9**
 Plan Scale **1"=20'**
 Sheet # **163**
 Proposed **GRADE CHANGE**
 Date **FEBRUARY 22, 2010**

City, County, State **CUYAHOGA CO., OHIO**
 Gen. Loc **CARNEGIE AVE., JUST SW OF ONTARIO ST.**
 Recorded Size/Material/Type **8" STEEL 132KV (C.E.I.) ELEC. LINE**
 Foreman/Truck#/Form By **J. CLINE / 219 / P. REYNOLDS**

Condition of paving prior to work
ASPHALT RDWY IN GOOD CONDITION

B.M. 1 Elev = **669.21'**
 is **CALCULATED**

Description: **CHIS "X" SET NW BONNET BOLT OF F.H., 66'± LT OF PROPOSED CL STA 15+98±, CARNEGIE AVE.**

B.M. 2 Elev. = **668.80'**
 is **CALCULATED**

Description: **CHIS "X" TOP RIM T.M.H., 37'± RT OF PROPOSED CL STA 18+23±, CARNEGIE AVE.**

SO-DEEP will attempt to use the BM/HL most applicable to your design. If however, BMs differ by more than .05', resulting differences could cause design conflicts.

Benchmarks check **BY 0.02'**
 Elevations are referenced to **B.M.#2**

Recorded Size/Type of utility **WAS FOUND**

Existing Grade of **ASPHALT RDWY**

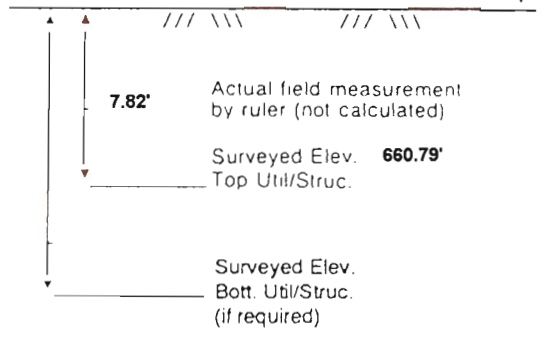
There **WERE NOT** additional utilities in the test hole

Survey Mark **MAG NAIL**
 (set by SO-DEEP) Elev. **668.60'**

The utility **WAS** in good condition.

Facing **NORTHEAST**

Paving Thickness and type **8" ASP. / 10" CONC.**



Color of ribbon installed **RED**



Soil Type **SAND & DEBRIS**

Field Condition **HEAVY ROAD TRAFFIC**

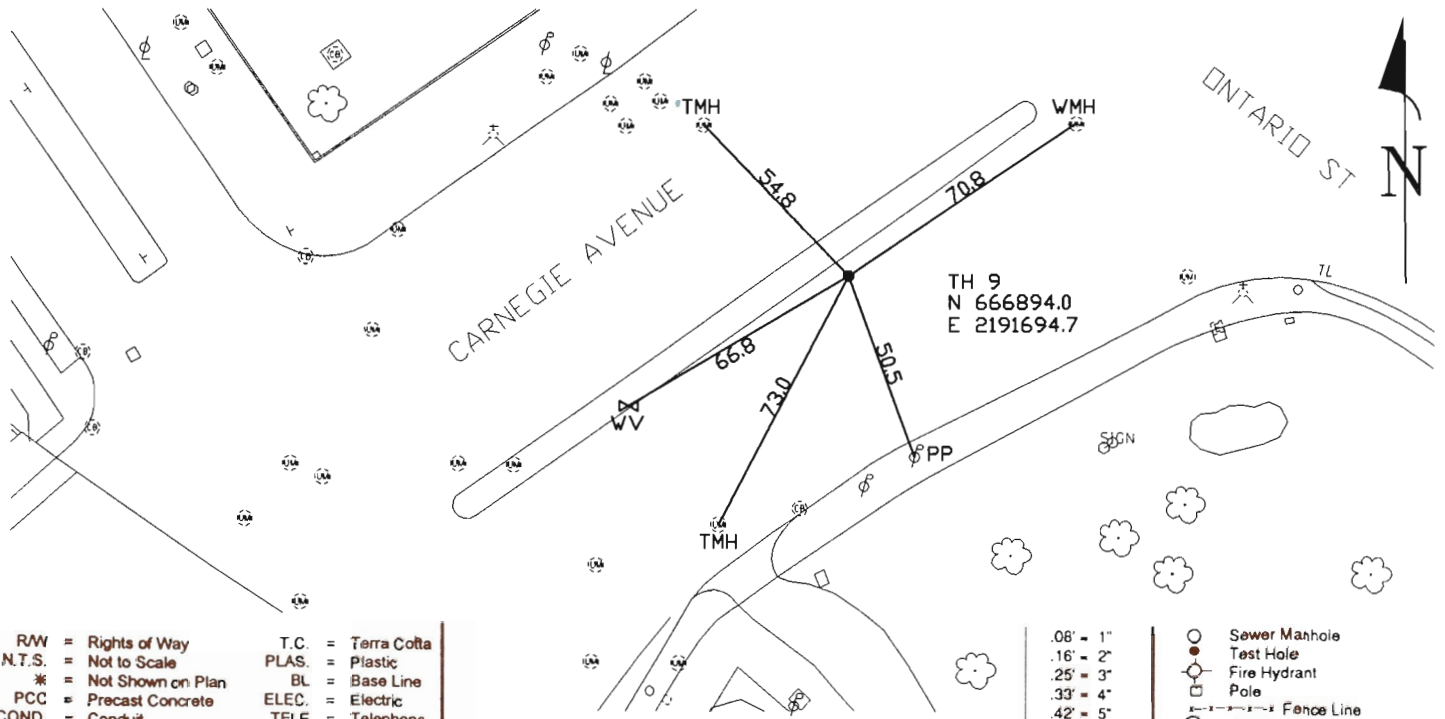
T.H. tied to **MAG NAIL**

9" COATED STEEL 132 KV (C.E.I.) ELEC. LINE
 Size/Material/Type
 Portion of pipe exposed for O.D. measurement
FULL

Handwritten signature and initials

Remarks: **NONE**

TH DUG 13.6'± RT OF PROPOSED CL STA 16+57.7±, CARNEGIE AVE.



- | | |
|---------------------------|--------------------|
| RW = Rights of Way | T.C. = Terra Cotta |
| N.T.S. = Not to Scale | PLAS. = Plastic |
| * = Not Shown on Plan | BL = Base Line |
| PCC = Precast Concrete | ELEC. = Electric |
| COND. = Conduit | TELE = Telephone |
| CONC. = Concrete | T.H. = Test Hole |
| O.D. = Outside Diameter | SW = Sidewalk |
| C.I. = Cast Iron | DW = Driveway |
| D.I. = Ductile Iron | BM = Benchmark |
| RPC = Rough Pour Concrete | C.B. = Catch Basin |
| CL = Centerline | GV = Gas Valve |

- | | |
|------------|-----------------------------|
| .08' = 1" | ○ = Sewer Manhole |
| .16' = 2" | ● = Test Hole |
| .25' = 3" | ⊙ = Fire Hydrant |
| .33' = 4" | □ = Pole |
| .42' = 5" | ⊘ = Fence Line |
| .50' = 6" | ⊙ = Electric Manhole |
| .58' = 7" | ⊙ = T.S. = Traverse Station |
| .67' = 8" | ⊙ = Valve |
| .75' = 9" | ⊙ = Water Meter |
| .83' = 10" | ⊙ = Telephone Manhole |
| .92' = 11" | □ = Telephone Pedestal |

Performing out-of-sight work... with vision!
 Note: To Eliminate mistakes and check this work, So-Deep suggests you scale and plot all dimensions on the plans and review all elevations carefully. So-Deep is responsible only for information shown on our forms.



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 Raleigh, NC 27616
 (919) 878-7466

So-Deep Test Hole Certification Form

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So-Deep Corporate Office
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 Manassas Park, VA 20111
 (703)361-6005

Control # **EJQC311**
 Test Hole # **10**
 Plan Scale **1"=20'**
 Sheet # **163**
 Proposed **GRADE CHANGE**
 Date **FEBRUARY 22, 2010**

City, County, State **CUYAHOGA CO., OHIO**
 Gen. Loc **CARNEGIE AVE., JUST SW OF ONTARIO ST.**
 Recorded Size/Material/Type **8" STEEL 132KV (C.E.I.) ELEC. LINE**
 Foreman/Truck#/Form By **J. CLINE / 219 / P. REYNOLDS**

Condition of paving prior to work
ASPHALT RDWY IN GOOD CONDITION

B.M. 1 Elev. = **669.21'**
 is **CALCULATED**

Description: **CHIS "X" SET NW BONNET BOLT OF F.H., 66± LT OF PROPOSED CL STA 15+98±, CARNEGIE AVE.**

B.M. 2 Elev. = **668.80'**
 is **CALCULATED**

Description: **CHIS "X" TOP RIM T.M.H., 37± RT OF PROPOSED CL STA 18+23±, CARNEGIE AVE.**

SO-DEEP will attempt to use the BM/HL most applicable to your design. If however, BMs differ by more than .05', resulting differences could cause design conflicts.

Benchmarks check **BY 0.02'**
 Elevations are referenced to **B.M.#2**

Recorded Size/Type of utility **WAS FOUND**

Existing Grade of **ASPHALT RDWY**

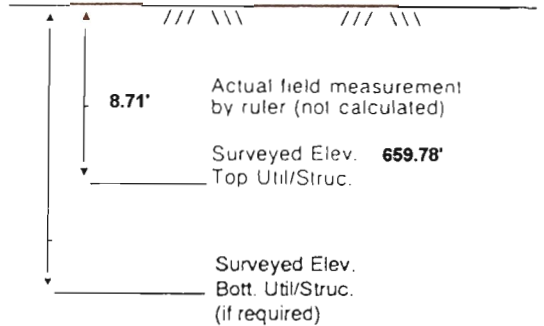
There **WERE NOT** additional utilities in the test hole

Survey Mark **MAG NAIL**
 (set by SO-DEEP) Elev. **668.52'**

The utility **WAS** in good condition

Facing **NORTHEAST**

Paving Thickness and type **8" ASP. / 10" CONC.**



Color of ribbon installed **RED**

Soil Type **SAND & DEBRIS**

Field Condition **HEAVY ROAD TRAFFIC**

T.H. tied to **MAG NAIL**

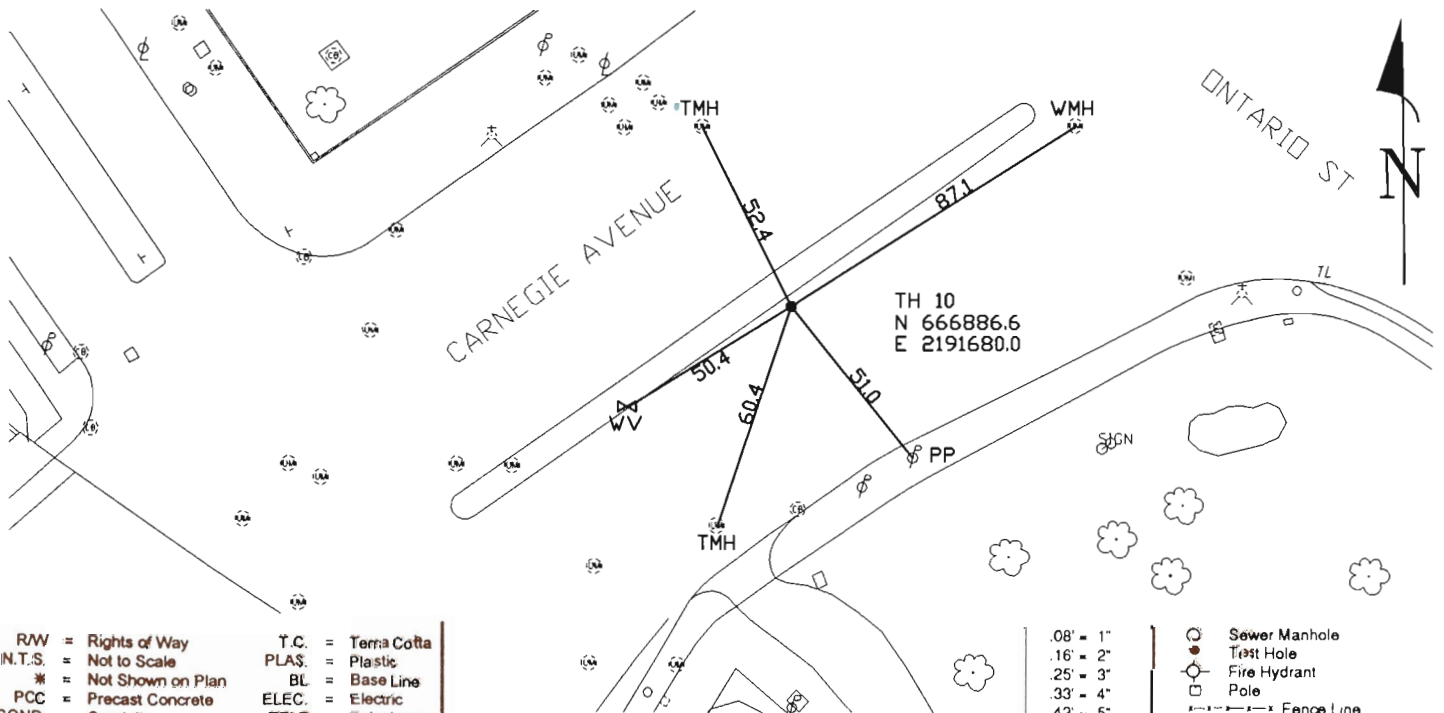


9" COATED STEEL 132 KV (C.E.I.) ELEC. LINE
 Size/Material/Type
 Portion of pipe exposed for O.D. measurement.
FULL

Remarks: **NONE**

Handwritten signature

TH DUG 12.2'± RT OF PROPOSED CL STA 16+41.3±, CARNEGIE AVE.



- | | |
|---------------------------|--------------------|
| R/W = Rights of Way | T.C. = Terra Cotta |
| I.N.T.S. = Not to Scale | PLAS. = Plastic |
| * = Not Shown on Plan | BL = Base Line |
| PCC = Precast Concrete | ELEC. = Electric |
| COND. = Conduit | TELE = Telephone |
| CONC. = Concrete | T.H. = Test Hole |
| O.D. = Outside Diameter | SW = Sidewalk |
| C.I. = Cast Iron | DW = Driveway |
| D.I. = Ductile Iron | BM = Benchmark |
| RPC = Rough Pour Concrete | C.B. = Catch Basin |
| CL = Centeline | GV = Gas Valve |

Performing out-of-sight work...with vision!™

Note: To Eliminate mistakes and check this work, So-Deep suggests you scale and plot all dimensions onto the plans and review all elevations carefully. So-Deep is responsible for information shown on our forms.

- | | |
|------------|-----------------------------|
| .08' = 1" | ⊗ = Sewer Manhole |
| .16' = 2" | ⊙ = Test Hole |
| .25' = 3" | ⊕ = Fire Hydrant |
| .33' = 4" | ⊖ = Pole |
| .42' = 5" | ⊗ = Fence Line |
| .50' = 6" | ⊕ = Electric Manhole |
| .58' = 7" | ⊖ = T.S. = Traverse Station |
| .67' = 8" | ⊗ = Valve |
| .75' = 9" | ⊕ = Water Meter |
| .83' = 10" | ⊖ = Telephone Manhole |
| .92' = 11" | ⊗ = Telephone Pedestal |



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So-Deep Test Hole Certification Form

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 Manassas Park, VA 20111
 (703)361-6005

Control # **EJQC311**
 Test Hole # **12**
 Plan Scale **1"=20'**
 Sheet # **155**
 Proposed **GRADE CHANGE**
 Date **FEBRUARY 19, 2010**

City, County, State **CUYAHOGA CO., OHIO**
 Gen. Loc. **CARNEGIE AVE., 365± SW OF E. 9TH ST.**
 Recorded Size/Material/Type **8" STEEL 132KV (C.E.I.) ELEC LINE**
 Foreman/Truck#/Form By **J. CLINE / 219 / P. REYNOLDS**

Condition of paving prior to work
ASPHALT RDWY IN GOOD CONDITION

B.M. 1 Elev = **669.93'**
 is **GIVEN**

Description: **(MNC321) TOP OF P.K. NAIL FOUND, 53'± RT OF PROPOSED CL STA 22+21±, CARNEGIE AVE.**

B.M. 2 Elev = **670.25'**
 is **GIVEN**

Description: **(MNC324) TOP OF P.K. NAIL FOUND, 52'± RT OF PROPOSED CL STA 21+11±, CARNEGIE AVE.**

SO-DEEP will attempt to use the BM/Hi most applicable to your design. If however, BMs differ by more than .05', resulting differences could cause design conflicts.

Benchmarks check **BY 0.03'**
 Elevations are referenced to **B.M.#2**

Recorded Size/Type of utility **WAS FOUND**

There **WERE** additional utilities in the test hole

The utility **WAS** in good condition.

Paving Thickness and type **7" ASP. / 6" CONC.**

Color of ribbon installed **RED**

Soil Type **SAND**

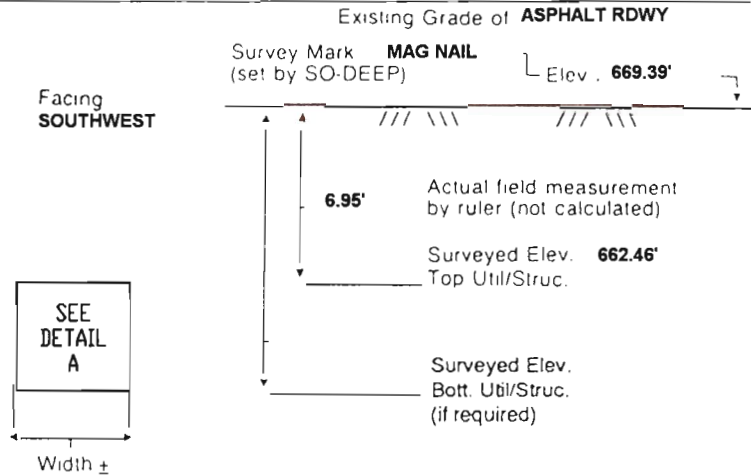
Field Condition **MODERATE RD. TRAFFIC**

T.H. tied to **MAG NAIL**

9" COATED STEEL 132 KV (C.E.I.) ELEC. LINE *
 Size/Material/Type
 Portion of pipe exposed for O.D. measurement:
FULL

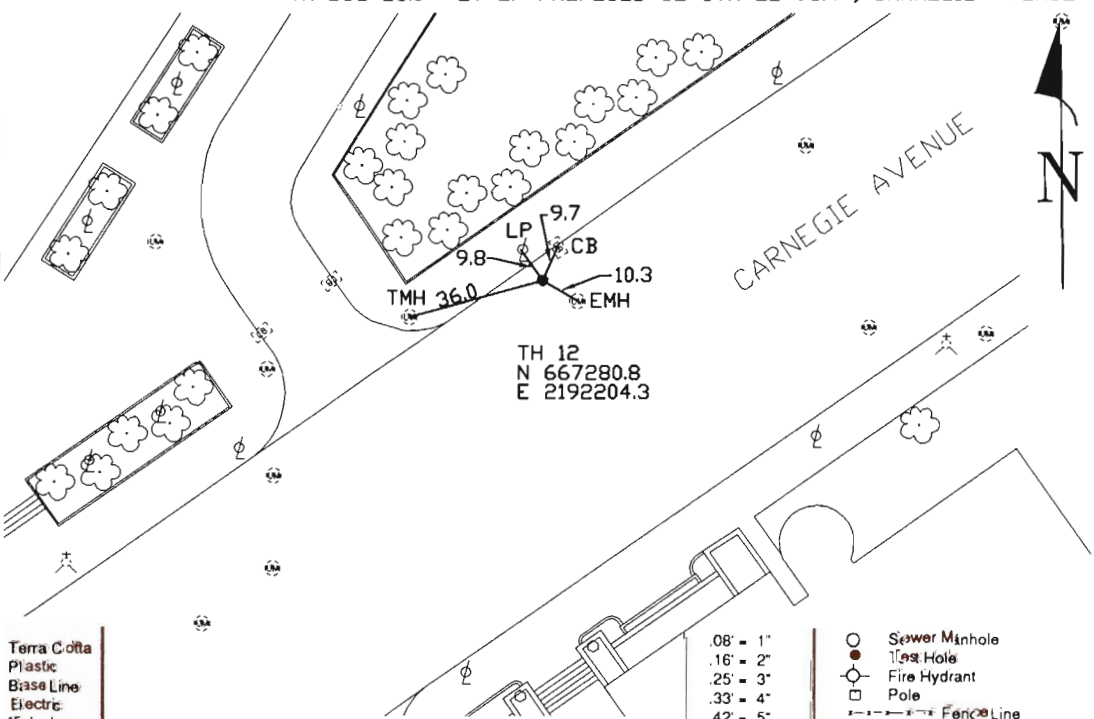
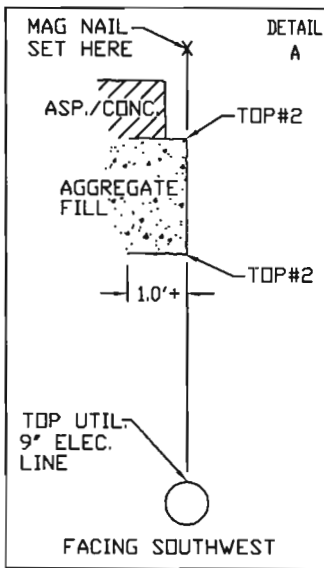
J.P. Mallico

Remarks: *** CREW ALSO FOUND 1.95' H. AGGREGATE (X.O.) FIBER OPTIC TELE. DUCT RUNNING ABOVE & PARALLEL TO THE 9" ELEC. LINE. ELECTRONIC DESIGNATING, TOPSIDE SURVEY & UTILITY RECORDS RESEARCH ALL INDICATE THAT THE (8) 2" PLASTIC FIBER OPTIC TELE. CONDUITS ARE CONTAINED WITHIN OR LIE DIRECTLY BELOW THE AGGREGATE FILL.**



	TOP#2	BOTT#2
ELEV.	668.31	666.36
ACTUAL	1.08	3.00

TH DUG 26.0'± LT OF PROPOSED CL STA 22+96.4±, CARNEGIE AVENUE



- R/W = Rights of Way
- N.T.S. = Not to Scale
- ∅ = Not Shown on Plan
- PCC = Precast Concrete
- COND. = Conduit
- CONC. = Concrete
- O.D. = Outside Diameter
- C.I. = Cast Iron
- D.I. = Ductile Iron
- RPC = Rough Pour Concrete
- CL = Centerline
- T.C. = Terra Cotta
- PLAS. = Plastic
- BL = Base Line
- ELEC. = Electric
- TELE. = Telephone
- T.H. = Test Hole
- SW = Sidewalk
- D/W = Driveway
- BM = Benchmark
- C.B. = Catch Basin
- GV = Gas Valve

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Note: To Eliminate mistakes and check this work, So-Deep suggests you scale and plot all dimensions and elevations on all plans and review all elevations carefully. So-Deep is responsible only for information shown on our forms.

- 08" = 1'
- 16" = 2'
- 25" = 3'
- 33" = 4'
- 42" = 5'
- 50" = 6'
- 58" = 7'
- 67" = 8'
- 75" = 9'
- 83" = 10'
- 92" = 11'
- = Sewer Manhole
- = Test Hole
- ⊕ = Fire Hydrant Pole
- ⊗ = Fence Line
- ⊕ = Electric Manhole
- ⊕ = T.S. = Traverse Station
- ⊕ = Valve
- ⊕ = Water Meter
- ⊕ = Telephone Manhole
- ⊕ = Telephone Pedestal



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 Manassas Park, VA 20111
 (703)361-6005

Control # **EJQC311**
 Test Hole # **13**
 Plan Scale **1"=20'**
 Sheet # **181**
 Proposed **GRADE CHANGE**
 Date **FEBRUARY 8, 2010**

City, County, State **CUYAHOGA CO., OHIO**
 Gen. Loc. **COMMERCIAL ROAD JUST NW OF I-90 OVERPASS**
 Recorded Size/Material/Type **UNK. SIZE & TYPE (C.P.P.) ELEC. DUCT**
 Foreman/Truck#/Form By **J. CLINE / 219 / P. REYNOLDS**

Condition of paving prior to work
ASPHALT RDWY IN GOOD CONDITION

B.M. 1 Elev. = **658.86'**
 is **CALCULATED**

Description: **CHIS "X" SET TOP RIM E.M.H., 31'± RT OF PROPOSED CL STA 17+94±, COMMERCIAL ROAD**

B.M. 2 Elev. = **663.80'**
 is **CALCULATED**

Description: **CHIS "X" SET NW BONNET BOLT OF F.H., 19'± LT OF PROPOSED CL STA 18+44±, COMMERCIAL ROAD**

SO-DEEP will attempt to use the BM/HI most applicable to your design. If however, BMs differ by more than .05, resulting differences could cause design conflicts.

Benchmarks check **BY 0.00'**
 Elevations are referenced to **B.M.#1**

Recorded Size/Type of utility **WAS FOUND**

Existing Grade of **ASPHALT RDWY**

There **WERE NOT** additional utilities in the test hole

The utility **WAS** in good condition

Paving Thickness and type **4" ASP. / 9" CONC.**

Color of ribbon installed **RED**

Soil Type **SAND**

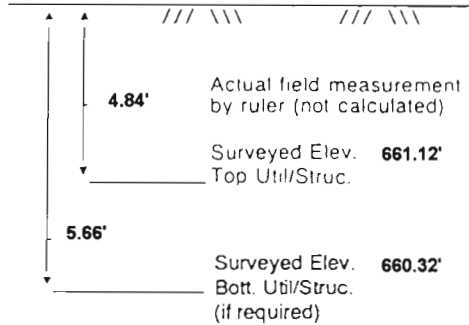
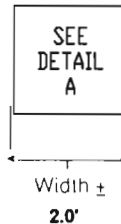
Field Condition **MODERATE RD. TRAFFIC**

T.H. tied to **MAG NAIL**

0.80' H. X 2.0' W. R.P.C. (C.P.P.) ELEC. DUCT *
 Size/Material/Type
 Portion of pipe exposed for O.D. measurement
N/A

Facing **NORTHWEST**

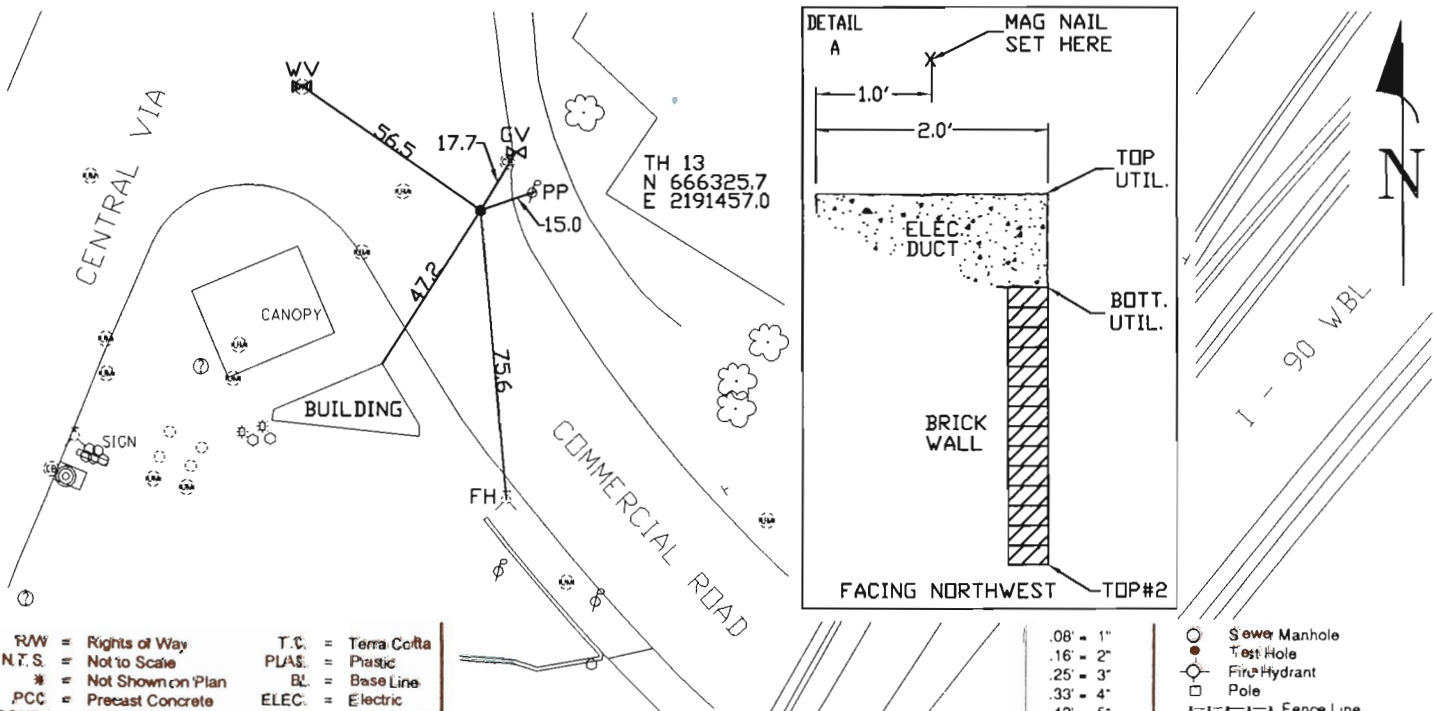
Survey Mark **MAG NAIL**
 (set by SO-DEEP) Elev. **665.97'**



TOP#2
 ELEV. **658.61**
 ACTUAL **7.38**

Remarks: * CREW COULD NOT OBTAIN AN ACCURATE BOTTOM ELEVATION ON THE R.P.C. ELECTRIC DUCT DUE TO AN OLD BRICK WALL & DEBRIS LYING DIRECTLY UNDERNEATH THE R.P.C. DUCT. TOPSIDE SURVEY, UTILITY RECORDS RESEARCH & ELECTRONIC DESIGNATING ALL INDICATE THAT THE TEST HOLE WAS DUG ON THE CORRECT UTILITY.

TH DUG 22.2'± RT OF PROPOSED CL STA 19+06.1±, COMMERCIAL ROAD



- R.W. = Rights of Way
- N.T.S. = Not to Scale
- * = Not Shown on Plan
- P.C.C. = Precast Concrete
- COND. = Conduit
- CONC. = Concrete
- O.D. = Outside Diameter
- C.I. = Cast Iron
- D.I. = Ductile Iron
- RPC = Rough Pour Concrete
- CL = Centerline
- T.C. = Terra Cotta
- PLAS. = Plastic
- BL. = Base Line
- ELEC. = Electric
- TELE. = Telephone
- T.H. = Test Hole
- SW = Sidewalk
- DW = Driveway
- BM = Benchmark
- C.B. = Catch Basin
- GV = Gas Valve

Performing out-of-sight work...with vision!™

Note: To Eliminate mistakes and check this work, So-Deep suggests you scale and plot all dimensions from the plans and review all elevations carefully. So-Deep is responsible only for information shown on our forms.

- = 1"
- = 2"
- = 3"
- = 4"
- = 5"
- = 6"
- = 7"
- = 8"
- = 9"
- = 10"
- = 11"
- = Sewer Manhole
- = Test Hole
- = Fire Hydrant
- = Pole
- = Fence Line
- = Electric Manhole
- = T.S. = Traverse Station
- = Valve
- = Water Meter
- = Telephone Manhole
- = Telephone Pedestal

John J. Cline
 3/3/10

So-Deep Test Hole Certification Form

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(703)361-6005

Control # **EJQC311**
Test Hole # **19**
Plan Scale **1"=20'**
Sheet # **164**
Proposed **GRADE CHANGE**
Date **FEBRUARY 15, 2010**

City, County, State **CUYAHOGA CO., OHIO**
Gen. Loc **INTR. BROADWAY AVE. & CARNEGIE AVE.**
Recorded Size/Material/Type **6-WAY TERRA COTTA (AT&T) TELE. DUCT**
Foreman/Truck#/Form By **J. CLINE / 219 / P. REYNOLDS**

Condition of paving prior to work
ASPHALT RDWY IN GOOD CONDITION

B.M. 1 Elev = **669.21'**
is **CALCULATED**

B.M. 2 Elev = **668.80'**
is **CALCULATED**

Description: **CHIS "X" SET NW BONNET BOLT OF F.H., 66'± LT OF PROPOSED CL STA 15+98±, CARNEGIE AVE.**

Description: **CHIS "X" TOP RIM T.M.H., 37'± RT OF PROPOSED CL STA 18+23±, CARNEGIE AVE.**

SO-DEEP will attempt to use the BM/HL most applicable to your design. If however, BMs differ by more than .05', resulting differences could cause design conflicts.

Benchmarks check **BY 0.00'**
Elevations are referenced to **B.M.#1**

Recorded Size/Type of utility **WAS FOUND**

Existing Grade of **ASPHALT RDWY**

There **WERE NOT** additional utilities in the test hole

The utility **WAS** in good condition

Paving Thickness and type **8 1/2" ASP. / 6" CONC.**

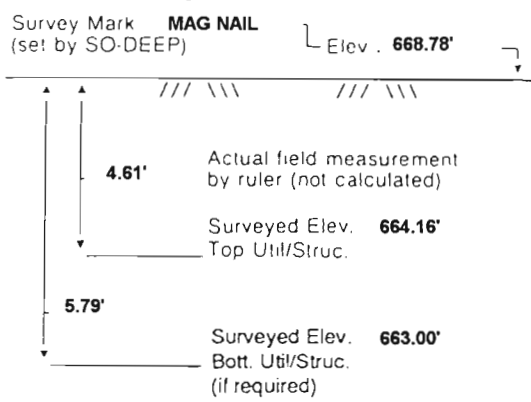
Color of ribbon installed **ORANGE**

Soil Type **SAND & DEBRIS**

Field Condition **HEAVY RD. TRAFFIC**

T.H. tied to **MAG NAIL**

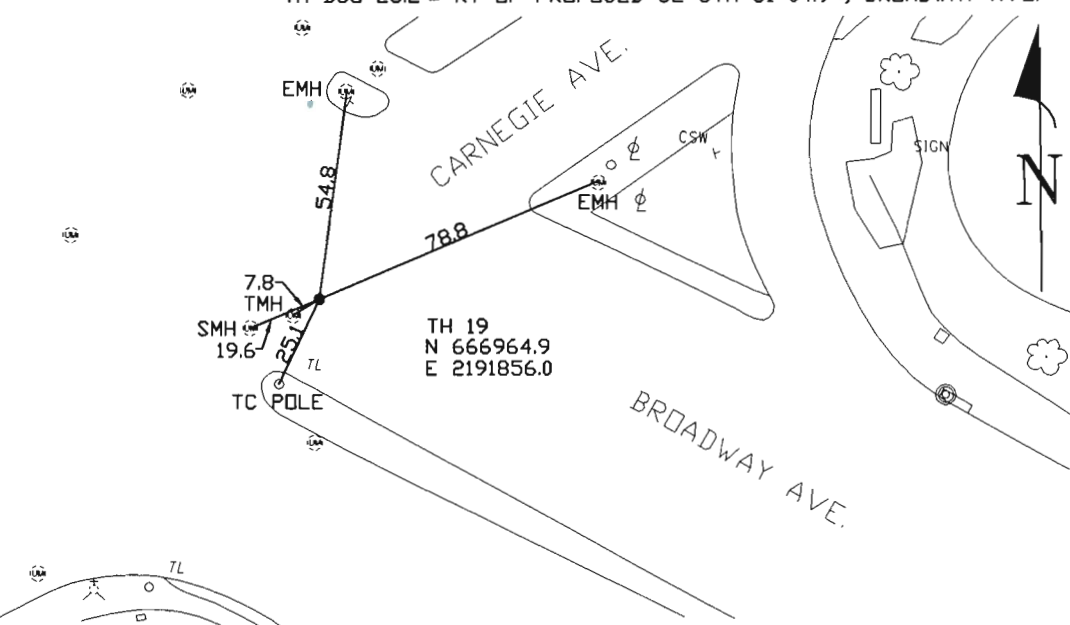
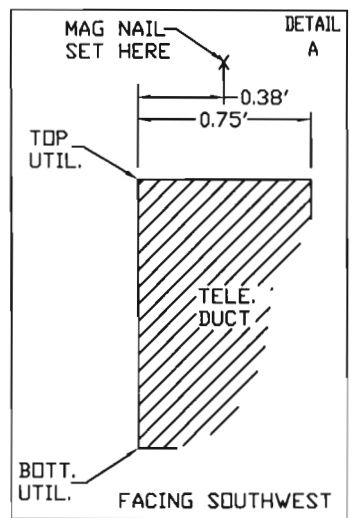
1.16' H. X 0.75' W. TERRA COTTA (AT&T) TELE DUCT *
Size/Material/Type
Portion of pipe exposed for O.D. measurement
N/A



Handwritten signature and date: 2/14/10

Remarks: * (AT&T) UTILITY VAULT INSPECTION INDICATES THAT THE 6-WAY TERRA COTTA DUCT CONTAINS FIBER OPTICS AT THIS LOCATION.

TH DUG 26.2'± RT OF PROPOSED CL STA 31+04.9±, BROADWAY AVE.



- | | |
|---------------------------|--------------------|
| RAW = Rights of Way | T.C. = Terra Cotta |
| N.T.S. = Not to Scale | PLAS. = Plastic |
| * = Not Shown on Plan | BL = Base Line |
| PCC = Precast Concrete | ELEC. = Electric |
| COND. = Conduit | TELE = Telephone |
| CONC. = Concrete | T.H. = Test Hole |
| O.D. = Outside Diameter | SW = Sidewalk |
| C.I. = Cast Iron | DW = Driveway |
| D.I. = Ductile Iron | BM = Benchmark |
| RPC = Rough Pour Concrete | C.B. = Catch Basin |
| CL = Centerline | GV = Gas Valve |

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Note: To Eliminate mistakes and check this work, So-Deep suggests you scale and plot all dimensions on the plans and review all elevations carefully. So-Deep is responsible only for information shown on our forms.

- | | |
|--------------|---------------------------|
| ○ .08' = 1" | ○ Sewer Manhole |
| ○ .16' = 2" | ● Test Hole |
| ○ .25' = 3" | ○ Fire Hydrant |
| ○ .33' = 4" | □ Pole |
| ○ .42' = 5" | — Fence Line |
| ○ .50' = 6" | ○ Electric Manhole |
| ○ .58' = 7" | — T.S. = Traverse Station |
| ○ .67' = 8" | ○ Valve |
| ○ .75' = 9" | ○ Water Meter |
| ○ .83' = 10" | ○ Telephone Manhole |
| ○ .92' = 11" | □ Telephone Pedestal |



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So-Deep Test Hole Certification Form

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Control # **EJQC311**
 Test Hole # **20**
 Plan Scale **1"=20'**
 Sheet # **164**
 Proposed **GRADE CHANGE**
 Date **FEBRUARY 15, 2010**

City, County, State **CUYAHOGA CO., OHIO**
 Gen. Loc. **INTR. BROADWAY AVE. & CARNEGIE AVE.**
 Recorded Size/Material/Type **6-WAY TERRA COTTA (AT&T) TELE. DUCT**
 Foreman/Truck#/Form By **J. CLINE / 219 / P. REYNOLDS**

Condition of paving prior to work
ASPHALT RDWY IN GOOD CONDITION

B.M. 1 Elev. = **669.21'**
 is **CALCULATED**

Description: **CHIS "X" SET NW BONNET BOLT OF F.H., 66'± LT OF PROPOSED CL STA 15+98±, CARNEGIE AVE.**

B.M. 2 Elev. = **668.80'**
 is **CALCULATED**

Description: **CHIS "X" TOP RIM T.M.H., 37'± RT OF PROPOSED CL STA 18+23±, CARNEGIE AVE.**

SO-DEEP will attempt to use the BM/PI most applicable to your design. If however, BMs differ by more than .05', resulting differences could cause design conflicts.

Benchmarks check **BY 0.00'**
 Elevations are referenced to **B.M.#1**

Recorded Size/Type of utility **WAS FOUND**

Existing Grade of **ASPHALT RDWY**

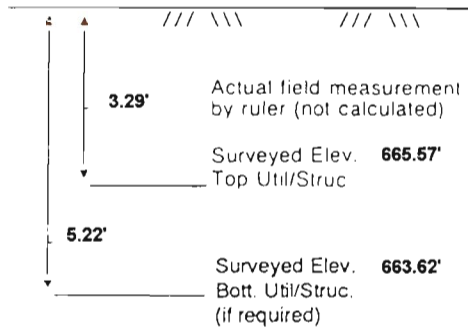
There **WERE** additional utilities in the test hole

Survey Mark **MAG NAIL**
 (set by SO-DEEP) Elev. **668.86'**

The utility **WAS** in good condition

Facing **SOUTHWEST**

Paving Thickness and type **6" ASP. / 7" CONC.**

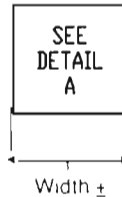


Color of ribbon installed **ORANGE**

Soil Type **SAND & DEBRIS**

Field Condition **HEAVY RD. TRAFFIC**

T.H. tied to **MAG NAIL**

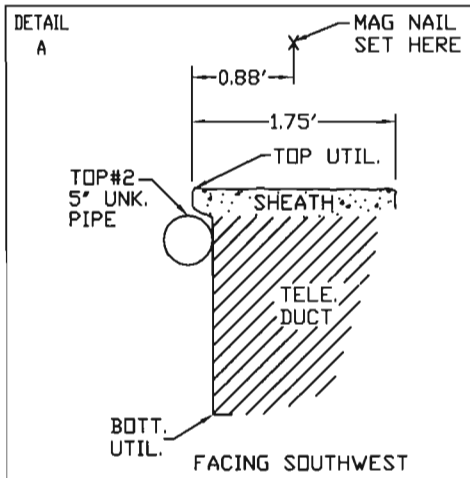


SEE REMARKS *
 Size/Material/Type
 Portion of pipe exposed
 for O.D. measurement.
N/A

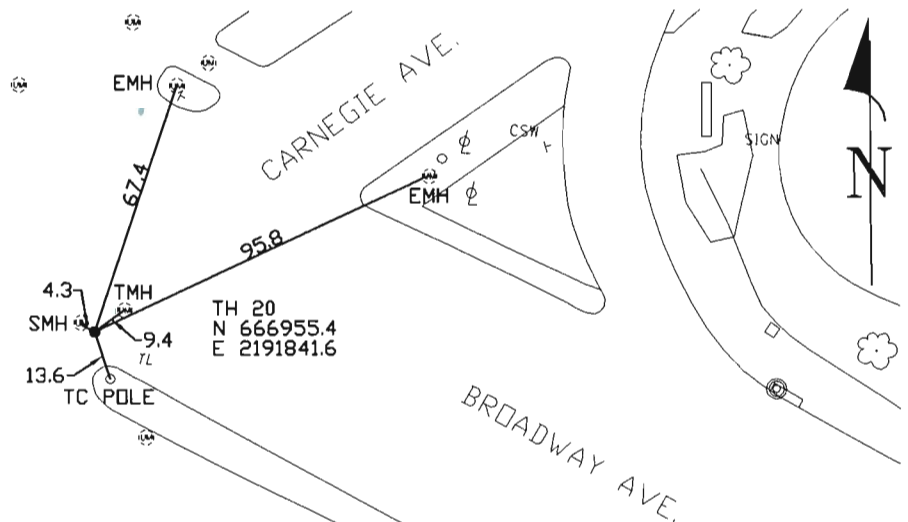
Handwritten signature/initials

Remarks: * **1.95' H. X 1.75' W. ROUGH POUR CONC. SHEATH / TERRA COTTA (AT&T) TELE. DUCT. CREW ALSO FOUND 5" CORRODED METALLIC UNK. FUNCTION PIPE RUNNING BESIDE AND PARALLEL TO THE TELE. DUCT.**

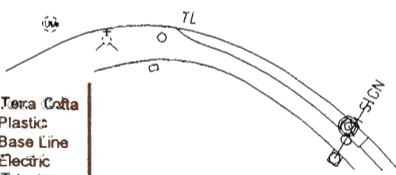
TOP#2
ELEV. 665.34
ACTUAL 3.52



TH DUG 10.8'± RT OF PROPOSED CL STA 31+12.7±, BROADWAY AVE.



- | | |
|---------------------------|--------------------|
| R/W = Rights of Way | T.C. = Terra Cotta |
| N.T.S. = Not to Scale | PLAS. = Plastic |
| * = Not Shown on Plan | BL = Base Line |
| PCC = Precast Concrete | ELEC. = Electric |
| COND. = Conduit | TELE. = Telephorie |
| CONC. = Concrete | T.H. = Test Hole |
| O.D. = Outside Diameter | SW = Sidewalk |
| C.I. = Cast Iron | DW = Driveway |
| D.I. = Ductile Iron | BM = Benchmark |
| RPC = Rough Pour Concrete | C.B. = Catch Basin |
| CL = Centerline | GV = Gas Valve |



*Performing out-of-sight work...with vision!*TM

Note: To Eliminate mistakes and check this work. So-Deep suggests you scale and plot all dimensions onto the plans and review all elevations carefully. So-Deep is not responsible for information shown on our forms.

- .08' = 1"
- .16' = 2"
- .25' = 3"
- .33' = 4"
- .42' = 5"
- .50' = 6"
- .58' = 7"
- .67' = 8"
- .75' = 9"
- .83' = 10"
- .92' = 11"

- Sewer Manhole
- Test Hole
- Fire Hydrant
- Pole
- - - Fence Line
- ⊕ Electric Manhole
- T.S. = Traverse Station
- ⊕ Valve
- ⊕ Water Meter
- ⊕ Telephone Manhole
- Telephone Pedestal



The Subsurface Utility Engineering Company

4650 Paragon Park Road
Raleigh, NC 27616
(919) 878-7466

Test Hole Certification Form Utility Quality Level A Data

ASCE C/1 38-02

So-Deep Corporate Office
8397 Euclid Avenue
Manassas Park, VA 20111
(703) 361-6005

Control # **EJQC311**
Test Hole # **21**
Plan Scale **1"=20'**
Sheet # **184**
Proposed **GRADE CHANGE**
Date **FEBRUARY 16, 2010**

City, County, State **CUYAHOGA CO., OHIO**
Gen. Loc. **BROADWAY AVE., JUST W. OF E. 14TH ST.**
Recorded Size/Material/Type **(2) 9-WAY TERRA COTTA (AT&T) TELE. DUCTS**
Foreman/Truck#/Form By **J. CLINE / 219 / P. REYNOLDS**

Condition of paving prior to work
ASPHALT RDWY IN GOOD CONDITION

B.M. 1 Elev. = **677.60'**
is **CALCULATED**

Description: **CHIS "X" SET TOP RIM T.M.H., 79'± LT OF PROPOSED CL STA 12+02±, E. 14TH ST.**

B.M. 2 Elev. = **678.13'**
is **CALCULATED**

Description: **CHIS "X" TOP RIM T.M.H., 19'± RT OF PROPOSED CL STA 11+24±, E. 14TH ST.**

Benchmarks Check **BY 0.00'**
Elevations are referenced to **B.M.#1**

So-Deep will attempt to use the BM/Hi most applicable to your design. If however, BMs differ by more than .05', resulting differences could cause design conflicts.

Recorded Size/Type of utility **WAS FOUND**

There **WERE** additional utilities in the test hole

The utility **WAS** in good condition

Paving Thickness and type **5" ASP / 5" BRK / 6" CONC**

Color of ribbon installed **ORANGE**

Soil Type **SAND & DEBRIS**

Field Condition **HEAVY RD. TRAFFIC**

T.H. tied to **MAG NAIL**

R.P.C. SHEATH OVER (2) TERRA COTTA TELE. DUCTS *
Size/Material/Type
Portion of pipe exposed for O.D. measurement:
N/A

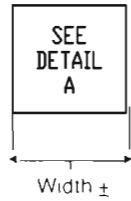
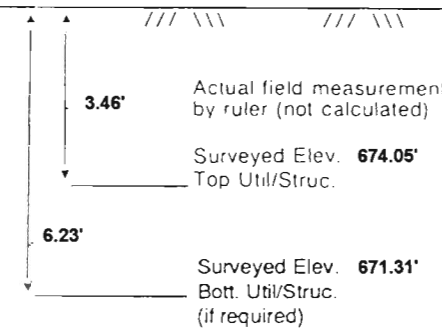
Remarks: * **CREW ALSO FOUND A 13" C.I. WATER LINE RUNNING PARALLEL TO THE (2) TELE. DUCTS. THE CREW COULD NOT OBTAIN AN ACCURATE WIDTH DUE TO CONCRETE, DEBRIS AND THE TELE. VAULT DIRECTLY ADJACENT TO THE TEST HOLE. NOTE: THE TELE. DUCTS CONTAINS FIBER OPTICS AT THIS LOCATION.**

Handwritten signature and date: J. Cline 3/19/10

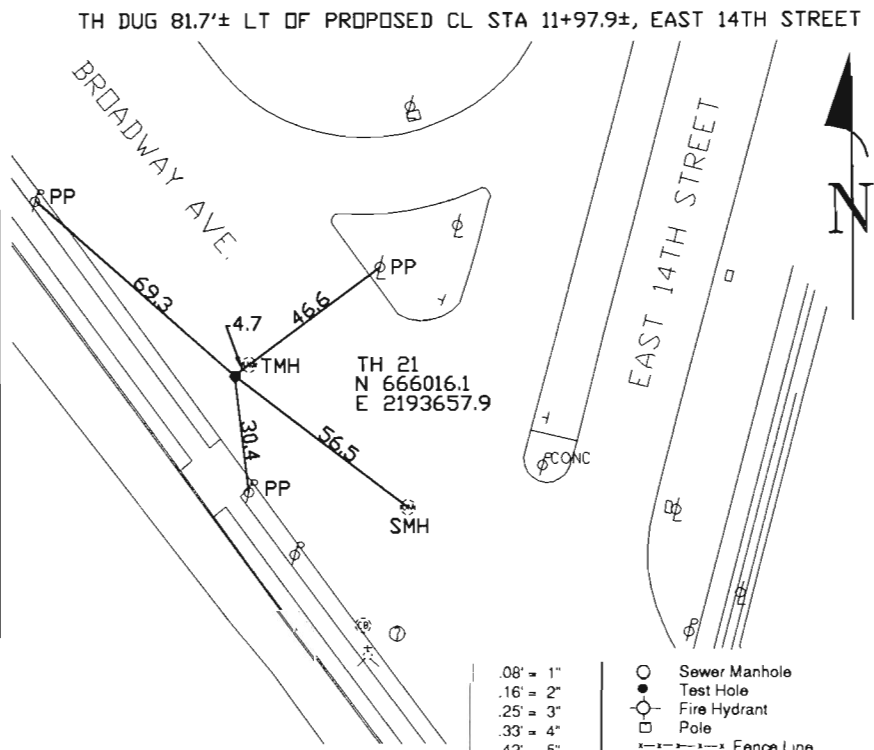
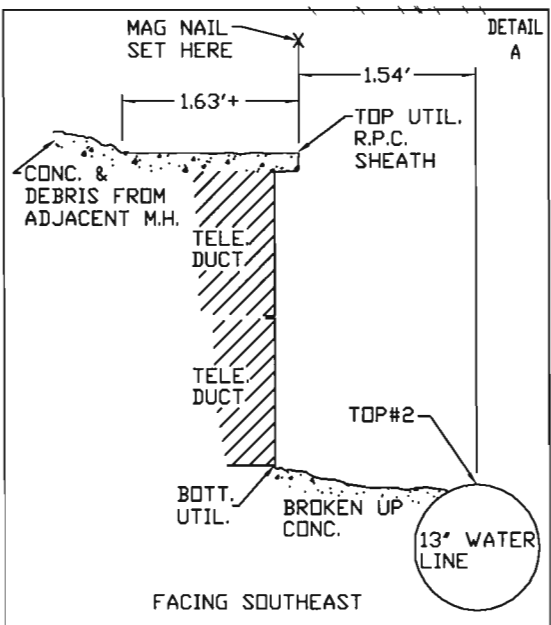
Existing Grade of **ASPHALT RDWY**

Survey Mark **MAG NAIL**
(set by So-Deep) Elev. **677.52'**

Facing **SOUTHEAST**



TOP#2
ELEV. 671.13
ACTUAL 6.39



- R/W = Rights of Way
- N.T.S. = Not to Scale
- * = Not Shown on Plan
- PCC = Precast Concrete
- COND. = Conduit
- CONC. = Concrete
- O.D. = Outside Diameter
- C.I. = Cast Iron
- D.I. = Ductile Iron
- RPC = Rough Pour Concrete
- CL = Centerline
- T.C. = Terra Cotta
- PLAS. = Plastic
- BL = Base Line
- ELEC. = Electric
- TELE. = Telephone
- T.H. = Test Hole
- SW = Sidewalk
- DW = Driveway
- BM = Benchmark
- C.B. = Catch Basin
- GV = Gas Valve

- 08' = 1"
- 16' = 2"
- 25' = 3"
- 33' = 4"
- 42' = 5"
- 50' = 6"
- 58' = 7"
- 67' = 8"
- 75' = 9"
- 83' = 10"
- 92' = 11"
- = Sewer Manhole
- = Test Hole
- ⊕ = Fire Hydrant
- = Pole
- = Fence Line
- ⊙ = Electric Manhole
- ⊙ = T.S. = Traverse Station
- ⊕ = Valve
- ⊕ = Water Meter
- ⊕ = Telephone Manhole
- = Telephone Pedestal

Performing out-of-sight work...with vision!TM
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The Subsurface Utility Engineering Company

4650 Paragon Park Road
Raleigh, NC 27616
(919) 878-7466

Test Hole Certification Form Utility Quality Level A Data

ASCE C/I 38-02

So-Deep Corporate Office
8397 Euclid Avenue
Manassas Park, VA 20111
(703) 361-6005

Control # **EJQC311**
Test Hole # **27**
Plan Scale **1"=20'**
Sheet # **208**
Proposed **GRADE CHANGE**
Date **FEBRUARY 16, 2010**

City, County, State **CUYAHOGA CO., OHIO**
Gen. Loc. **BROADWAY AVE., 740± SE OF E. 14TH ST.**
Recorded Size/Material/Type **(3) 6-WAY TERRA COTTA (AT&T) TELE. DUCTS**
Foreman/Truck#/Form By **J. CLINE / 219 / P. REYNOLDS**

Condition of paving prior to work
NO PAVING

B.M. 1 Elev. = **680.62'**
is **GIVEN**

Description: **(MNC234) TOP OF I.P. IN MON. BOX FOUND, 9'± RT OF PROPOSED CL STA 14+24±, BROADWAY AVE.**

B.M. 2 Elev. = **683.10'**
is **CALCULATED**

Description: **CHIS "X" TOP RIM T.M.H., 22'± RT OF PROPOSED SL STA 9+81±, BROADWAY AVE.**

So-Deep will attempt to use the BM/HL most applicable to your design. If however, BMs differ by more than .05', resulting differences could cause design conflicts.

Benchmarks Check **BY 0.02'**
Elevations are referenced to **B.M.#1**

Recorded Size/Type of utility **WAS FOUND**

There **WERE NOT** additional utilities in the test hole

The utility **WAS** in good condition

Paving Thickness and type **NO PAVING**

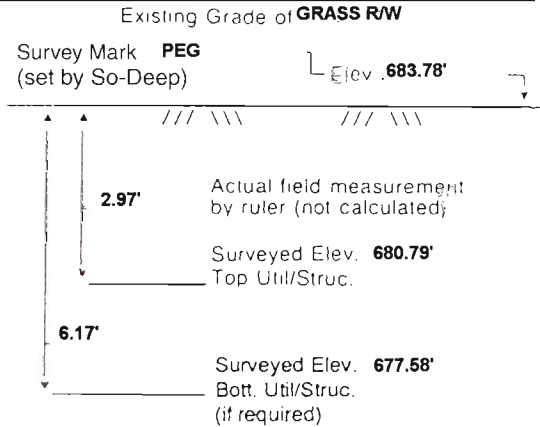
Color of ribbon installed **ORANGE**

Soil Type **SAND & DEBRIS**

Field Condition **GRASS R/W**

T.H. tied to **PEG**

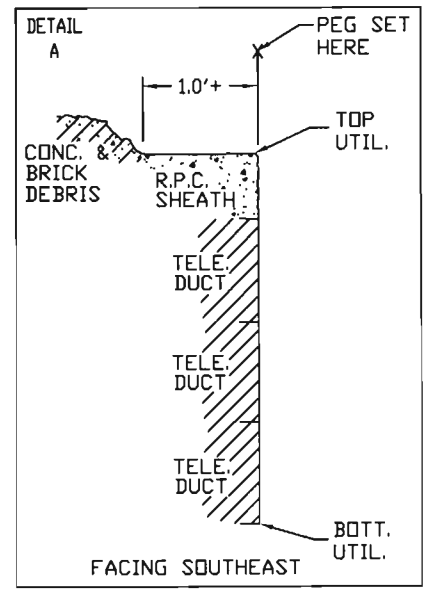
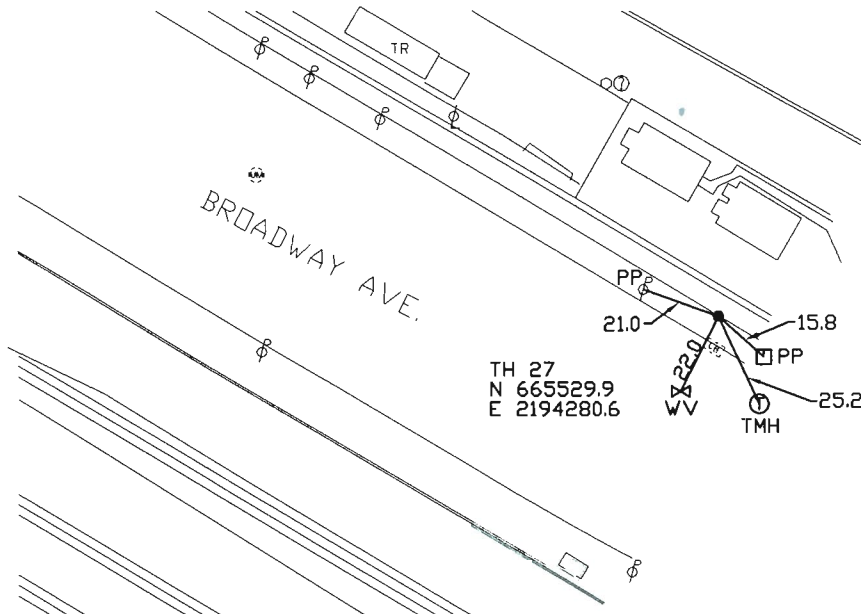
R.P.C. SHEATH OVER (3) TERRA COTTA TELE. DUCTS *
Size/Material/Type
Portion of pipe exposed for O.D. measurement:
N/A



Remarks: * **CREW COULD NOT OBTAIN AN ACCURATE WIDTH DUE TO CONCRETE AND BRICK DEBRIS IN THE TEST HOLE. NOTE: THE TELE. DUCT CONTAINS FIBER OPTICS AT THIS LOCATION.**

Handwritten signature and date: J. Cline 3/14/10

TH DUG 36.2'± RT OF PROPOSED CL STA 10+02.5±, BROADWAY AVENUE



- R/W = Rights of Way
- N.T.S. = Not to Scale
- * = Not Shown on Plan
- PCC = Precast Concrete
- COND. = Conduit
- CONC. = Concrete
- O.D. = Outside Diameter
- C.I. = Cast Iron
- D.I. = Ductile Iron
- RPC = Rough Pour Concrete
- CL = Centerline
- T.C. = Terra Cotta
- PLAS. = Plastic
- BL = Base Line
- ELEC. = Electric
- TELE = Telephone
- T.H. = Test Hole
- SW = Sidewalk
- DW = Driveway
- BM = Benchmark
- C.B. = Catch Basin
- GV = Gas Valve

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- .08" = 1"
- .16" = 2"
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- .33" = 4"
- .42" = 5"
- .50" = 6"
- .58" = 7"
- .67" = 8"
- .75" = 9"
- .83" = 10"
- .92" = 11"
- = Sewer Manhole
- = Test Hole
- ⊙ = Fire Hydrant
- = Pole
- ⊕ = Fence Line
- ⊖ = Electric Manhole
- ⊗ = T.S. = Traverse Station
- ⊘ = Valve
- ⊙ = Water Meter
- ⊖ = Telephone Manhole
- ⊗ = Telephone Pedestal



The Subsurface Utility Engineering Company

4650 Paragon Park Road
Raleigh, NC 27616
(919) 878-7466

Test Hole Certification Form Utility Quality Level A Data

ASCE C/I 38-02

So-Deep Corporate Office
8397 Euclid Avenue
Manassas Park, VA 20111
(703) 361-6005

Control # **EJQC311**
Test Hole # **31**
Plan Scale **1"=20'**
Sheet # **164**
Proposed **I-90 OVERPASS**
Date **FEBRUARY 5, 2010**

City, County, State **CUYAHOGA CO., OHIO**
Gen. Loc. **ONTARIO ST., JUST EAST OF CARNEGIE AVE.**
Recorded Size/Material/Type **8" STEEL (D.E.O.) GAS LINE**
Foreman/Truck#/Form By **J. CLINE / 219 / P. REYNOLDS**

Condition of paving prior to work
CONC. SIDEWALK POOR CONDITION

B.M. 1 Elev. = **669.46'**
is **CALCULATED**

Description: **(VAULT #17) CHIS "X" SET TOP RIM T.M.H., 15'± RT OF PROPOSED CL STA 28+52±, ONTARIO ST.**

B.M. 2 Elev. = **671.70'**
is **CALCULATED**

Description: **CHIS "X" SET NW MOST BASE BOLT OF O.H. SIGN, 12'± RT OF PROPOSED CL STA 28+04±, ONTARIO ST.**

So-Deep will attempt to use the BM/HL most applicable to your design. If however, BMs differ by more than .05', resulting differences could cause design conflicts.

Benchmarks Check **BY 0.01'**
Elevations are referenced to **B.M.#1**

Recorded Size/Type of utility **WAS FOUND**

There **WERE NOT** additional utilities in the test hole

The utility **WAS** in good condition

Paving Thickness and type **4" CONCRETE**

Color of ribbon installed **YELLOW**

Soil Type **SAND**

Field Condition **CONC. SIDEWALK**

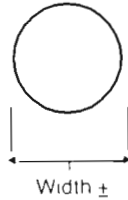
T.H. tied to **CHIS "X"**

8 3/4" WRAPPED STEEL GAS LINE
Size/Material/Type
Portion of pipe exposed for O.D. measurement:
FULL

Remarks: **NONE**

Handwritten signature and date: J. Cline 3/4/10

Facing
SOUTHEAST



Existing Grade of **CONC. SW**

Survey Mark **CHIS "X"**
(set by So-Deep) Elev. **668.57'**

1.75' Actual field measurement by ruler (not calculated)

Surveyed Elev. **666.83'**
Top Util/Struc

Surveyed Elev.
Bott. Util/Struc.
(if required)

TH DUG 52.6'± LT OF PROPOSED CL STA 29+36.3±, ONTARIO STREET



- | | |
|---------------------------|--------------------|
| RW = Rights of Way | T.C. = Terra Cotta |
| N.T.S. = Not to Scale | PLAS. = Plastic |
| * = Not Shown on Plan | BL = Base Line |
| PCC = Precast Concrete | ELEC. = Electric |
| COND. = Conduit | TELE. = Telephone |
| CONC. = Concrete | T.H. = Test Hole |
| O.D. = Outside Diameter | SW = Sidewalk |
| C.I. = Cast Iron | DW = Driveway |
| D.I. = Ductile Iron | BM = Benchmark |
| RPC = Rough Pour Concrete | C.B. = Catch Basin |
| CL = Centerline | GV = Gas Valve |

Performing out-of-sight work...with vision!™

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- | | |
|------------|-----------------------------|
| .08" = 1" | ○ = Sewer Manhole |
| .16" = 2" | ● = Test Hole |
| .25" = 3" | ⊙ = Fire Hydrant |
| .33" = 4" | □ = Pole |
| .42" = 5" | ⊘ = Fence Line |
| .50" = 6" | ⊕ = Electric Manhole |
| .58" = 7" | ⊖ = T.S. = Traverse Station |
| .67" = 8" | ⊗ = Valve |
| .75" = 9" | ⊙ = Water Meter |
| .83" = 10" | ⊕ = Telephone Manhole |
| .92" = 11" | ⊖ = Telephone Pedestal |



The Subsurface Utility Engineering Company

4650 Paragon Park Road
Raleigh, NC 27616
(919) 878-7466

Test Hole Certification Form Utility Quality Level A Data

ASCE C/1 38-02

So-Deep Corporate Office
8397 Euclid Avenue
Manassas Park, VA 20111
(703) 361-6005

Control # **EJQC311**
Test Hole # **32**
Plan Scale **1"=20'**
Sheet # **173**
Proposed **I-90 OVERPASS**
Date **FEBRUARY 5, 2010**

City, County, State **CUYAHOGA CO., OHIO**
Gen. Loc. **E.B. ONTARIO ST. @ I-90 OVERPASS**
Recorded Size/Material/Type **8" STEEL (D.E.O.) GAS LINE**
Foreman/Truck#/Form By **J. CLINE / 219 / P. REYNOLDS**

Condition of paving prior to work
CONC. SIDEWALK POOR CONDITION

B.M. 1 Elev. = **669.46'**
is **CALCULATED**

Description: **(VAULT #17) CHIS "X" SET TOP RIM T.M.H., 15'± RT OF PROPOSED CL STA 28+52±, ONTARIO ST.**

B.M. 2 Elev. = **671.70'**
is **CALCULATED**

Description: **CHIS "X" SET NW MOST BASE BOLT OF O.H. SIGN, 12'± RT OF PROPOSED CL STA 28+04±, ONTARIO ST.**

Benchmarks Check **BY 0.01'**
Elevations are referenced to **B.M.#1**

So-Deep will attempt to use the BM/HL most applicable to your design. If however, BMs differ by more than .05', resulting differences could cause design conflicts.

Recorded Size/Type of utility **WAS FOUND**

There **WERE NOT** additional utilities in the test hole

The utility **WAS** in good condition

Paving Thickness and type **4" CONCRETE**

Color of ribbon installed **YELLOW**

Soil Type **SAND**

Field Condition **CONC. SIDEWALK**

T.H. tied to **CHIS "X"**

8 3/4" WRAPPED STEEL GAS LINE
Size/Material/Type
Portion of pipe exposed for O.D. measurement:
FULL

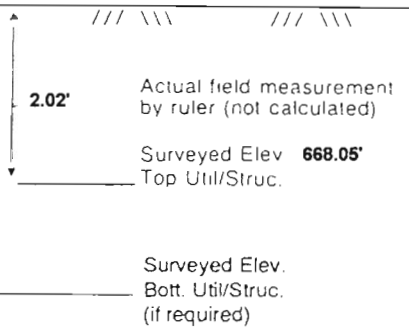
Remarks: **NONE**

Handwritten signature and date: 3/11/10

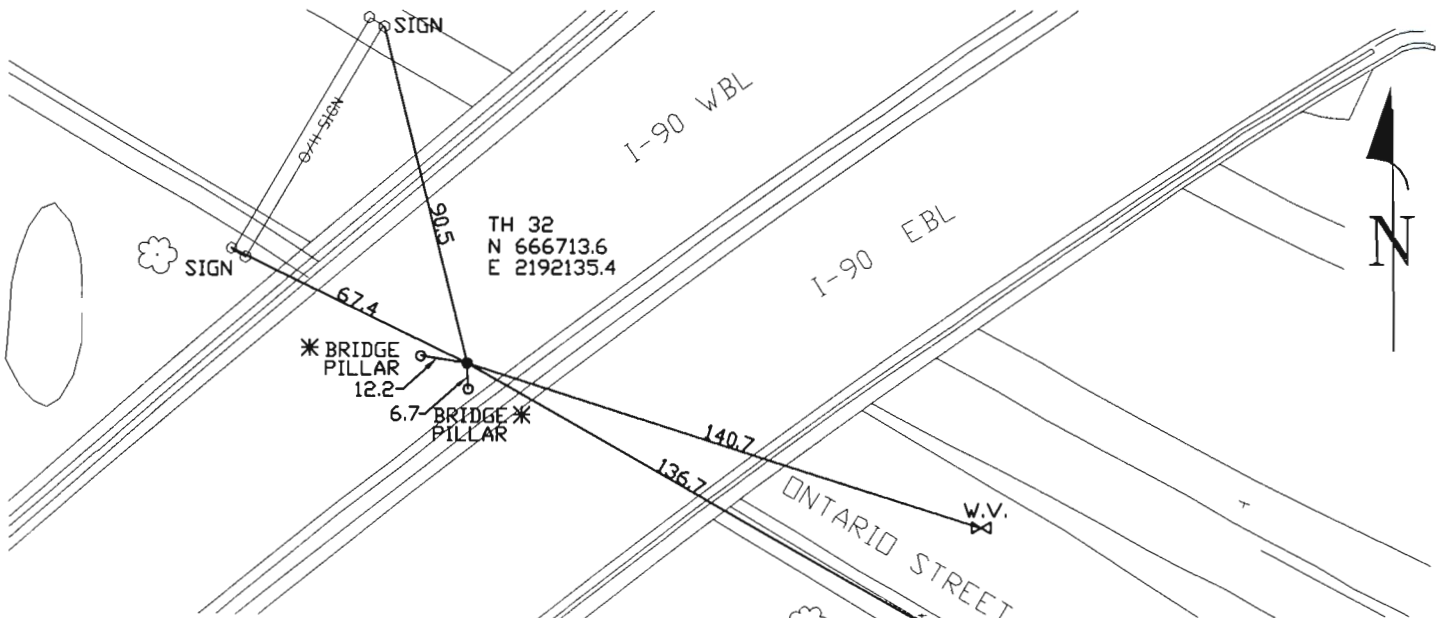
Facing **SOUTHEAST**



Existing Grade of **CONC. SW**
Survey Mark **CHIS "X"**
(set by So-Deep) Elev. **.670.07'**



TH DUG 52.8'± LT OF PROPOSED CL STA 27+37.5±, ONTARIO STREET



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- * = Not Shown on Plan
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- COND. = Conduit
- CONC. = Concrete
- O.D. = Outside Diameter
- C.I. = Cast Iron
- D.I. = Ductile Iron
- RPC = Rough Pour Concrete
- CL = Centerline

- T.C. = Terra Cotta
- PLAS. = Plastic
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- .33' = 4"
- .42' = 5"
- .50' = 6"
- .58' = 7"
- .67' = 8"
- .75' = 9"
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- .92' = 11"

- Sewer Manhole
- Test Hole
- ⊕ Fire Hydrant Pole
- ⊖ Electric Manhole
- ⊙ T.S. = Traverse Station
- ⊕ Valve
- ⊙ Water Meter
- ⊙ Telephone Manhole
- ⊙ Telephone Pedestal

Performing out-of-sight work...with vision!TM

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The Subsurface Utility Engineering Company
 4650 Paragon Park Road
 Raleigh, NC 27616
 (919) 878-7466

Test Hole Certification Form Utility Quality Level A Data

ASCE C/1 38-02

So-Deep Corporate Office
 8397 Euclid Avenue
 Manassas Park, VA 20111
 (703) 361-6005

Control # **EJQC311**
 Test Hole # **33**
 Plan Scale **1"=20'**
 Sheet # **164**
 Proposed **GRADE CHANGE**
 Date **FEBRUARY 15, 2010**

Condition of paving prior to work
ASPHALT RDWY IN GOOD CONDITION

City, County, State **CUYAHOGA CO., OHIO**
 Gen. Loc. **INTR. BROADWAY AVE. & CARNEGIE AVE.**
 Recorded Size/Material/Type **8-WAY TERRA COTTA (AT&T) TELE. DUCT**
 Foreman/Truck#/Form By **J. CLINE / 219 / P. REYNOLDS**

B.M. 1 Elev. = **669.21'**
 is **CALCULATED**

B.M. 2 Elev. = **668.80'**
 is **CALCULATED**

Description: **CHIS "X" SET NW BONNET BOLT OF F.H., 66± LT OF PROPOSED CL STA 15+98±, CARNEGIE AVE.**

Description: **CHIS "X" TOP RIM T.M.H., 37± RT OF PROPOSED CL STA 18+23±, CARNEGIE AVE.**

So-Deep will attempt to use the BM/HI most applicable to your design. If however, BMs differ by more than .05', resulting differences could cause design conflicts.

Benchmarks Check **BY 0.00'**
 Elevations are referenced to **B.M.#1**

Recorded Size/Type of utility **WAS FOUND**

There **WERE** additional utilities in the test hole

The utility **WAS** in good condition

Paving Thickness and type **6" ASP. / 7" CONC.**

Color of ribbon installed **ORANGE**

Soil Type **SAND & DEBRIS**

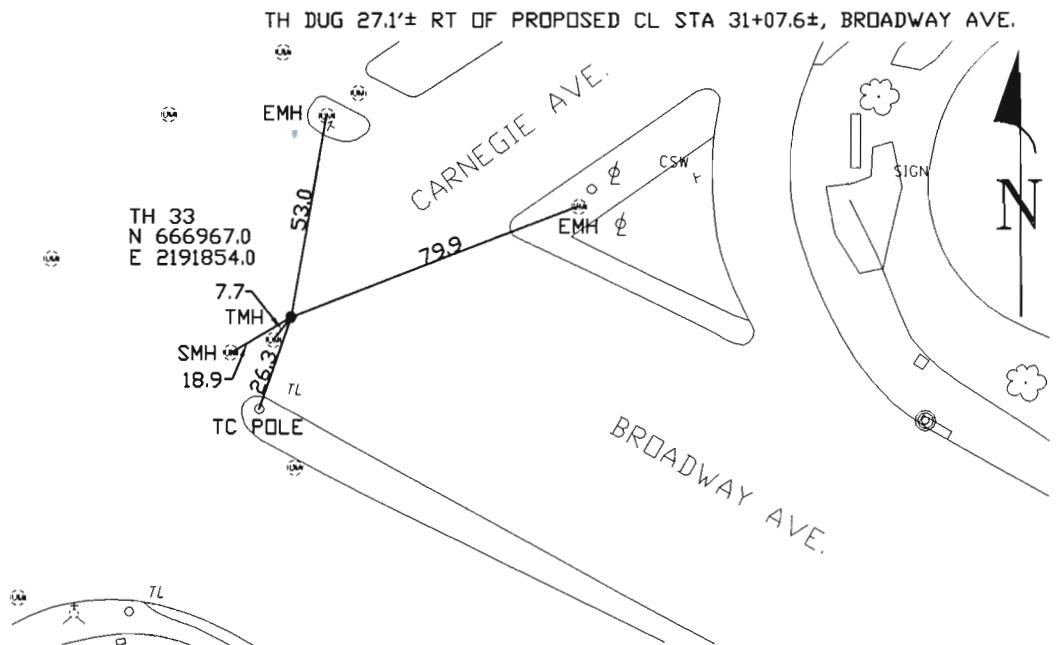
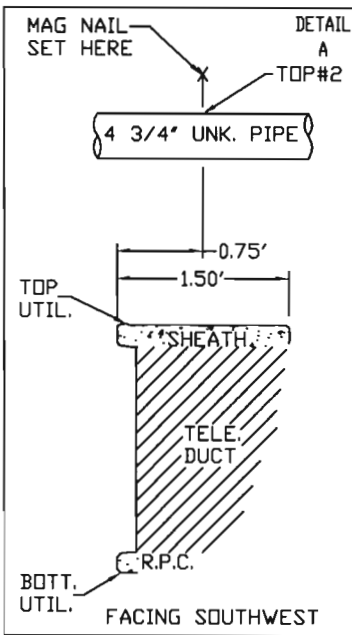
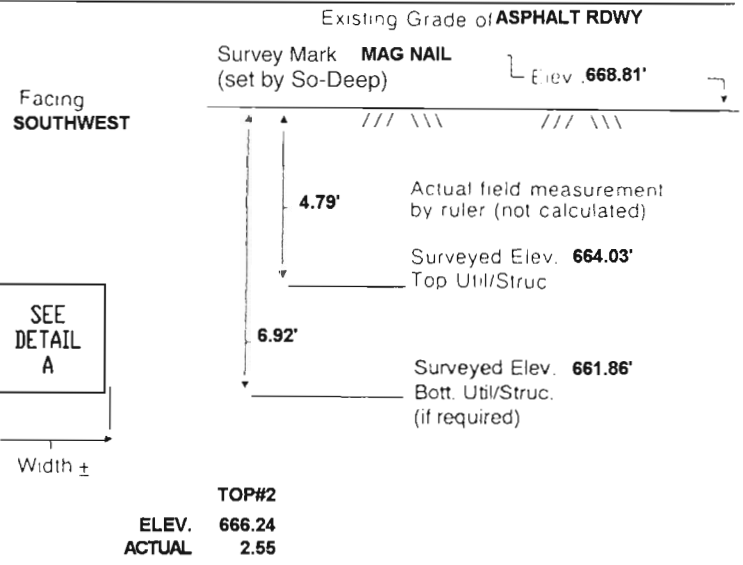
Field Condition **HEAVY RD. TRAFFIC**

T.H. tied to **MAG NAIL**

SEE REMARKS *
 Size/Material/Type
 Portion of pipe exposed
 for O.D. measurement:
N/A

as/b/c

Remarks: *** 2.17' H. X 1.50' W. ROUGH POUR CONCRETE SHEATH / TERRA COTTA (AT&T) TELE. DUCT. CREW ALSO FOUND 4 3/4" CORRODED METALLIC UNKNOWN FUNCTION PIPE RUNNING ABOVE & PERPENDICULAR TO THE TELE. DUCT.**



- | | |
|---------------------------|--------------------|
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| N.T.S. = Not to Scale | PLAS. = Plastic |
| * = Not Shown on Plan | BL = Base Line |
| PCC = Precast Concrete | ELEC. = Electric |
| COND. = Conduit | TELE. = Telephone |
| CONC. = Concrete | T.H. = Test Hole |
| O.D. = Outside Diameter | SW = Sidewalk |
| C.I. = Cast Iron | DW = Driveway |
| D.I. = Ductile Iron | BM = Benchmark |
| RPC = Rough Pour Concrete | C.B. = Catch Basin |
| CL = Centerline | GV = Gas Valve |

Performing out-of-sight work...with vision!

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- | | |
|------------|-----------------------------|
| 0.08' = 1" | ○ = Sewer Manhole |
| .16' = 2" | ● = Test Hole |
| .25' = 3" | ⊙ = Fire Hydrant |
| .33' = 4" | ⊙ = Pole |
| .42' = 5" | —+— = Fence Line |
| .50' = 6" | ⊙ = Electric Manhole |
| .58' = 7" | ⊙ = T.S. = Traverse Station |
| .67' = 8" | ⊙ = Valve |
| .75' = 9" | ⊙ = Water Meter |
| .83' = 10" | ⊙ = Telephone Manhole |
| .92' = 11" | ⊙ = Telephone Pedestal |



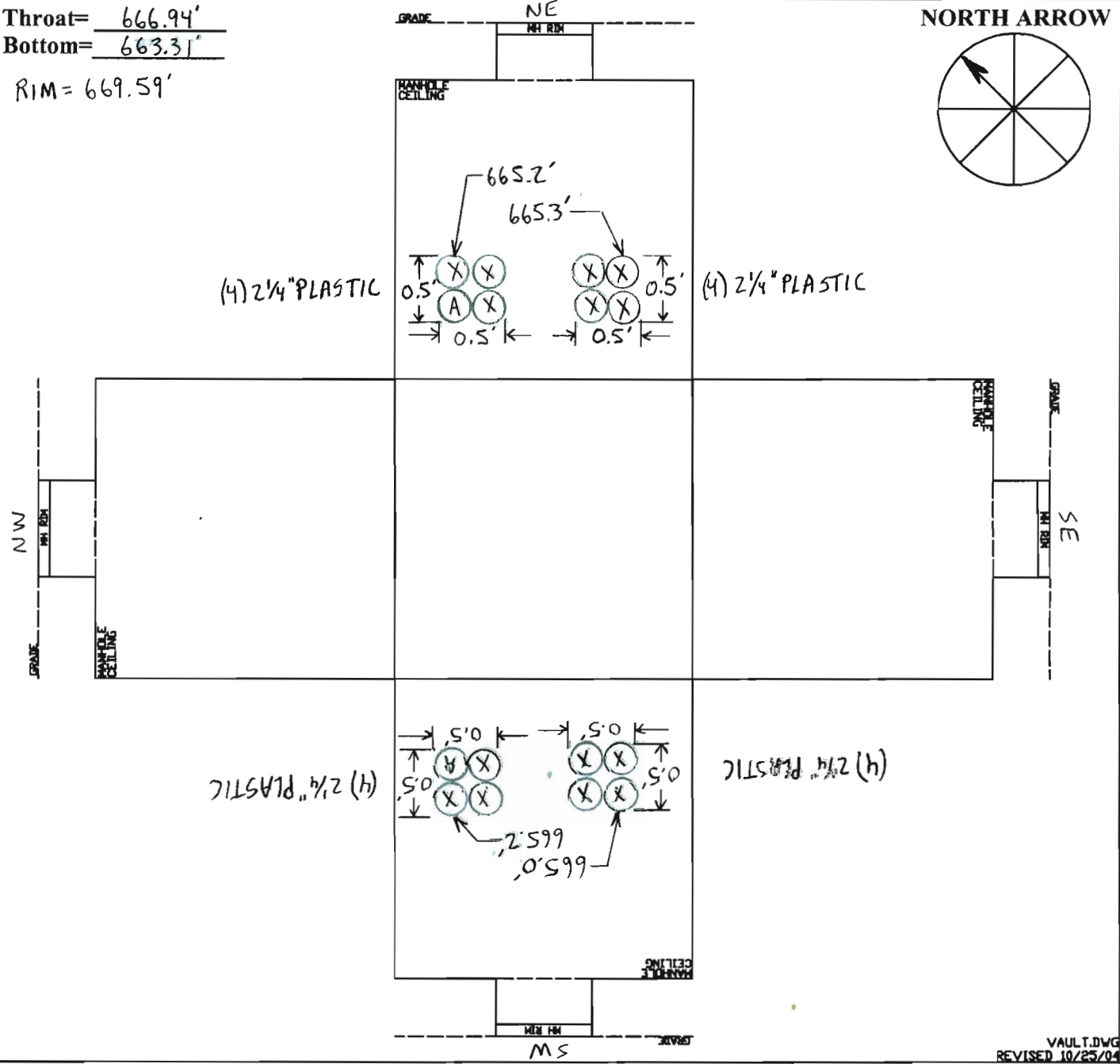
JOB #: EJQC311 DATE: 1/27/10
 PLAN SHEET #: 164
 MANHOLE LOCATION: CARNEGIE AVE., N. OF BROADWAY AVE.
 TYPE OF MANHOLE: TELE.
 UTILITY RECORD MANHOLE #: NO #

MANHOLE DIAGRAM FORM

Performing out-of-sight work... with vision!
 CORPORATE HEADQUARTERS
 8397 EUCLID AVENUE
 MANASSAS PARK, VA 20111
 (703) 361-6005

SO-DEEP MANHOLE #: VAULT 11
 SO-DEEP CREW: P.R./S.E./J.C.
 DID THE MANHOLE NEED TO BE DEWATERED? YES NO

Throat = 666.94'
 Bottom = 663.31'
 RIM = 669.59'



NOTES: A- FIBER OPTIC CABLE WITH TRACE WIRE

LEGEND	
○	EMPTY CONDUIT
①	ONE CABLE IN CONDUIT
②	TWO CABLES IN CONDUIT, ETC.
⊗	CONDUIT PLUGGED OR CAPPED
Ⓐ	SEE NOTE A, ETC.
I.D.	= INNER DUCT
F.O.	= FIBER OPTIC
NOTE: DIAGRAM NOT-TO-SCALE	

DISCLAIMER
 SO-DEEP DOES NOT GUARANTEE OR WARRANT IN ANY WAY, AND, ACCORDINGLY, DOES NOT UNDERTAKE ANY LIABILITY OR RESPONSIBILITY WHATSOEVER FOR, THE ACCURACY OR RELIABILITY OF THE DIAGRAM OR DIMENSIONS SHOWN HEREIN. THIS ROUGH FIELD DATA IS GATHERED BY SO-DEEP FOR ITS INTERNAL PURPOSES ONLY AND IS MADE AVAILABLE ON A CASE-BY-CASE BASIS AS A COURTESY. THE RECIPIENT RECEIVES THIS DATA WITH FULL UNDERSTANDING OF THE ABOVE DISCLAIMER AND USES ANY SUCH DATA AT THE RECIPIENT'S SOLE RISK AND EXPENSE.





JOB #: EJQC311 DATE: 1/27/10
 PLAN SHEET #: 172
 MANHOLE LOCATION: FRONT OF BUILDING # 312 CARNEGIE AVE.
 TYPE OF MANHOLE: ELEC.
 UTILITY RECORD MANHOLE #: 67 67-23
 SO-DEEP MANHOLE #: VAULT 14
 SO-DEEP CREW: P.R./S.E./J.C.

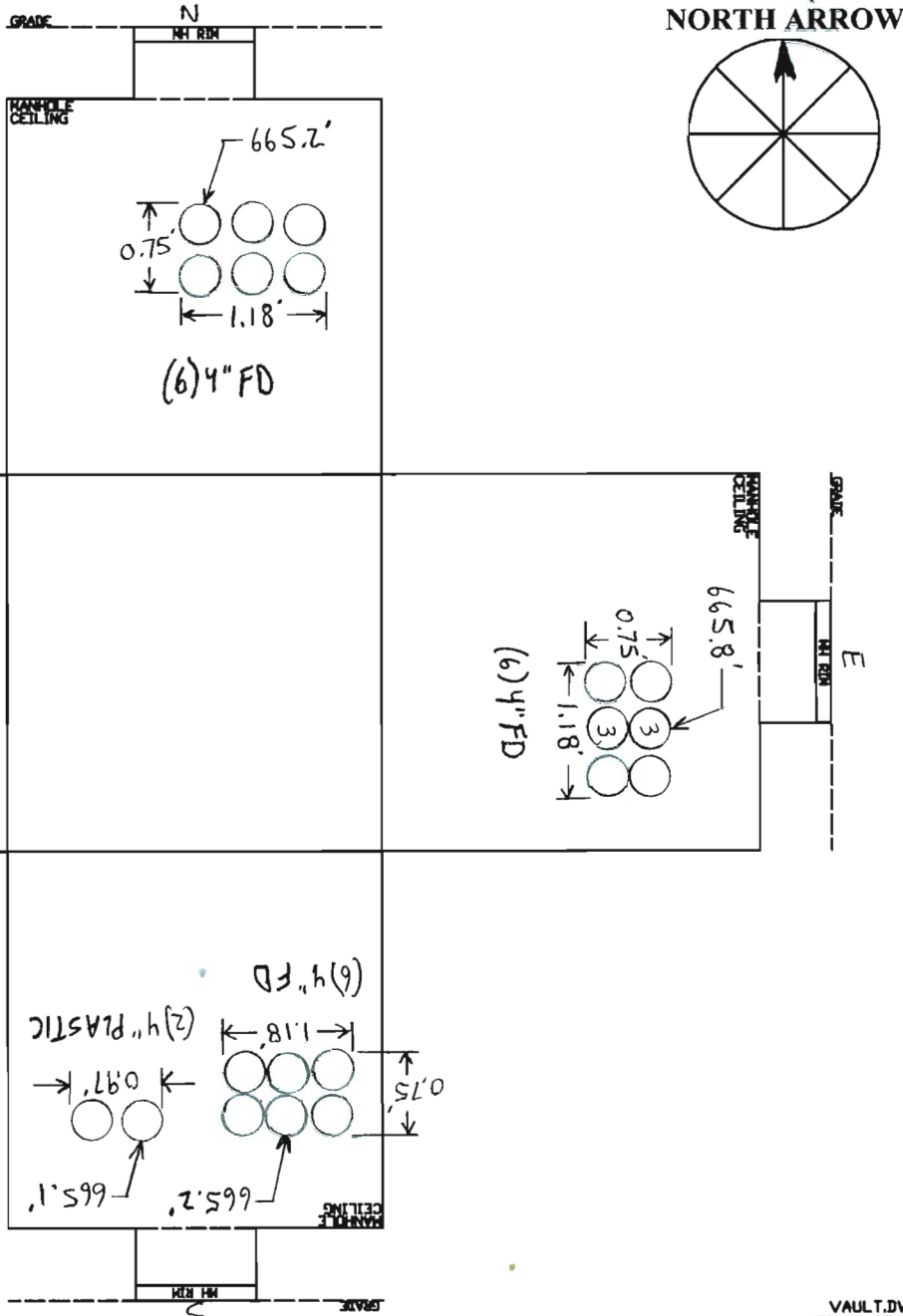
MANHOLE DIAGRAM FORM

Performing out-of-sight work ... with vision!

CORPORATE HEADQUARTERS
 8397 EUCLID AVENUE
 MANASSAS PARK, VA 20111
 (703) 361-6005

DID THE MANHOLE NEED TO BE DEWATERED? YES NO

Throat = 666.84'
 Bottom = 660.92'
 RIM = 667.84'



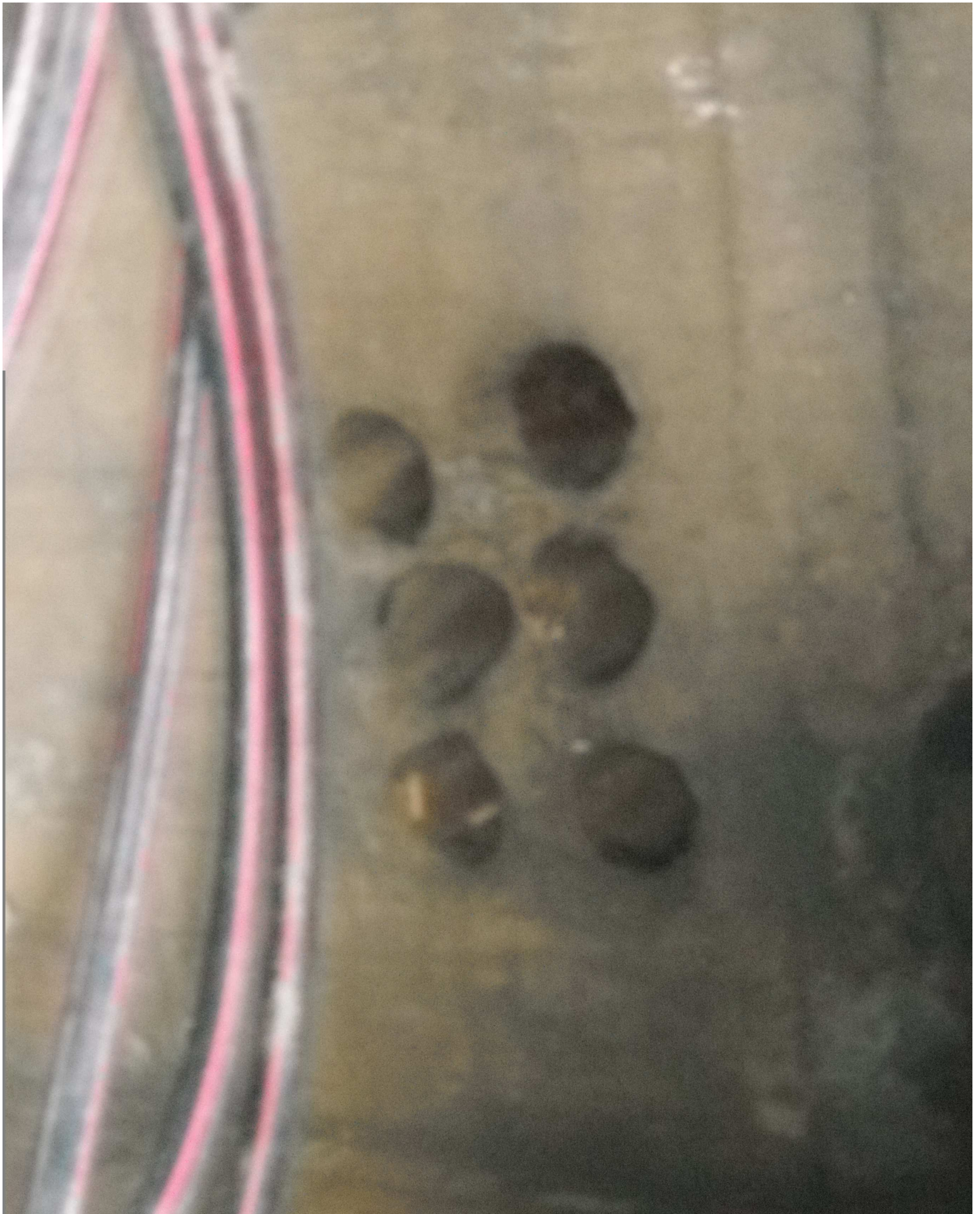
VAULT.DWG
 REVISED 10/25/04

NOTES: A = 1 CUT CABLE

DISCLAIMER
 SO-DEEP DOES NOT GUARANTEE OR WARRANT IN ANY WAY, AND, ACCORDINGLY, DOES NOT UNDERTAKE ANY LIABILITY OR RESPONSIBILITY WHATSOEVER FOR THE ACCURACY OR RELIABILITY OF THE DIAGRAM OR DIMENSIONS SHOWN HEREIN. THIS ROUGH FIELD DATA IS GATHERED BY SO-DEEP FOR ITS INTERNAL PURPOSES ONLY AND IS MADE AVAILABLE ON A CASE-BY-CASE BASIS AS A COURTESY. THE RECIPIENT RECEIVES THIS DATA WITH FULL UNDERSTANDING OF THE ABOVE DISCLAIMER AND USES ANY SUCH DATA AT THE RECIPIENT'S SOLE RISK AND EXPENSE.

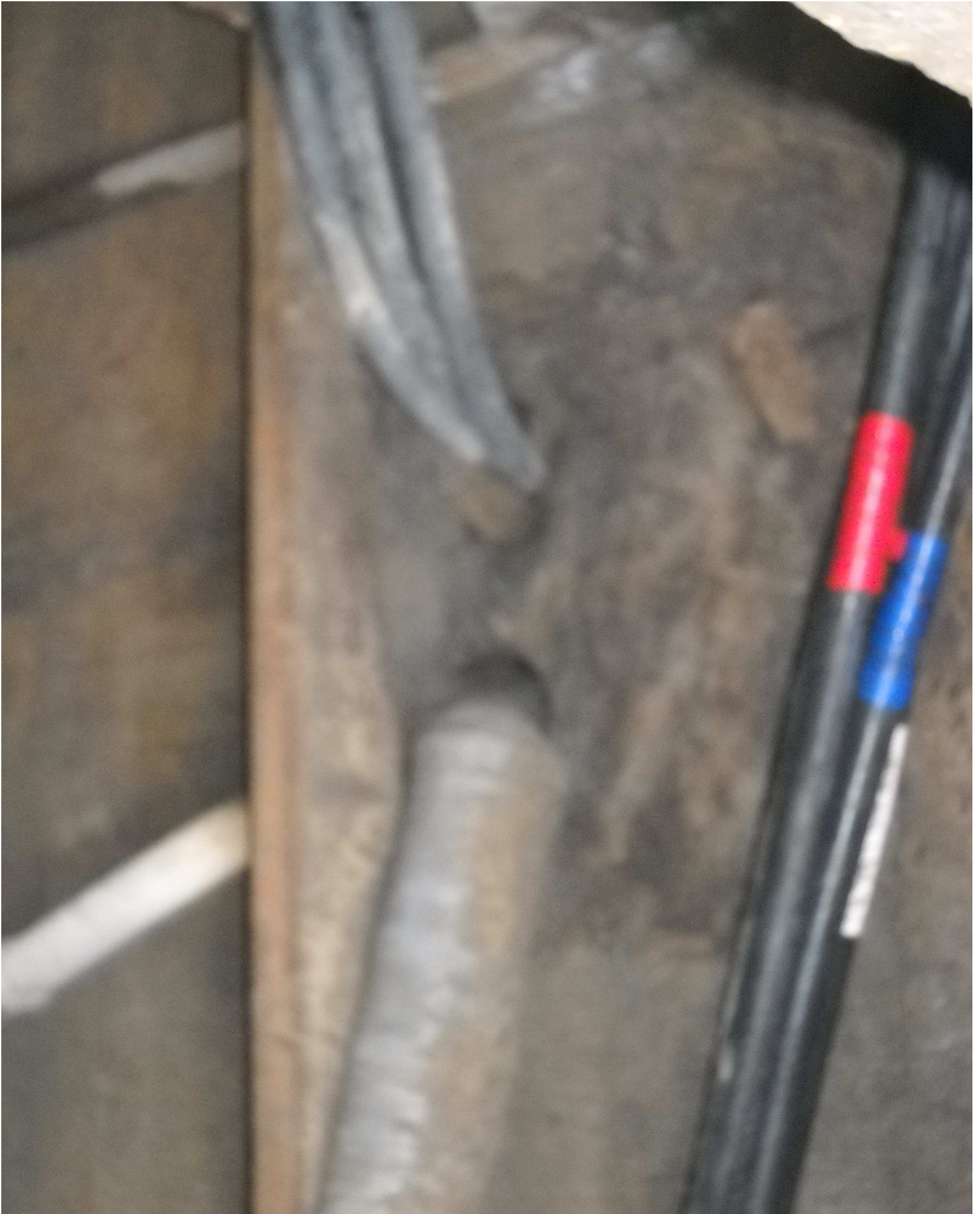
- LEGEND**
- EMPTY CONDUIT
 - ① ONE CABLE IN CONDUIT
 - ② TWO CABLES IN CONDUIT, ETC.
 - ⊗ CONDUIT PLUGGED OR CAPPED
 - Ⓐ SEE NOTE A, ETC.
- I.D. = INNER DUCT
 F.O. = FIBER OPTIC
 NOTE: DIAGRAM NOT-TO-SCALE













JOB #: E5QC311 DATE: 1/25/10

MANHOLE DIAGRAM FORM

PLAN SHEET #: 173

MANHOLE LOCATION: ONTARIO ST., E. OF I-90

TYPE OF MANHOLE: TELE.

UTILITY RECORD MANHOLE #: MAIN CONDUIT #208 MH "I"

SO-DEEP MANHOLE #: VAULT 15

SO-DEEP CREW: P.R./J.C./S.E.

DID THE MANHOLE NEED TO BE DEWATERED?

YES NO

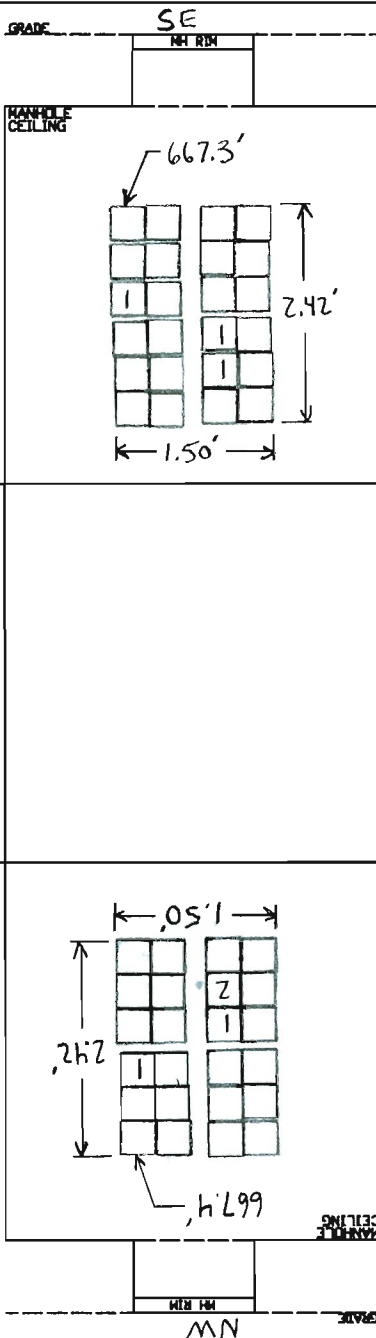
Performing out-of-sight work ... with vision!

CORPORATE HEADQUARTERS

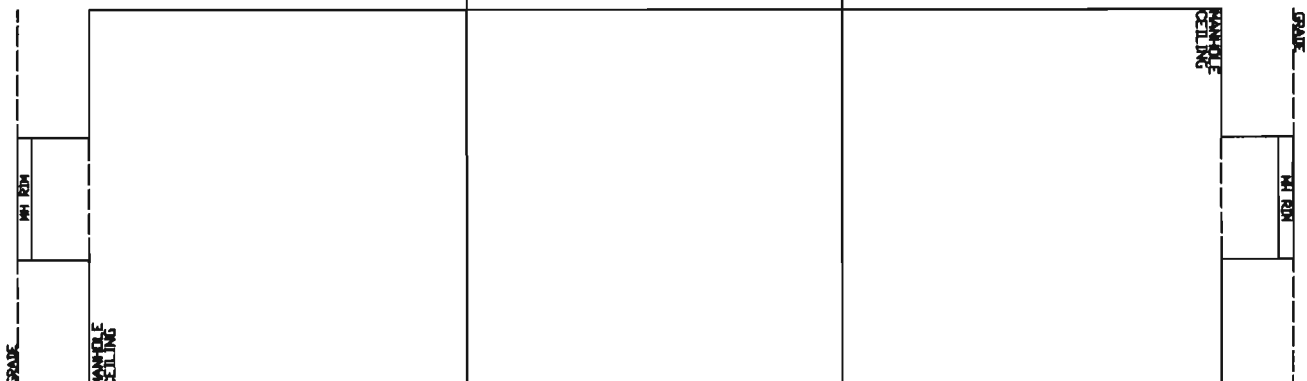
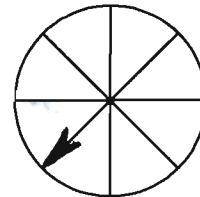
8397 EUCLID AVENUE
MANASSAS PARK, VA 20111
(703) 361-6005

Throat = 670.33'
Bottom = 662.62'

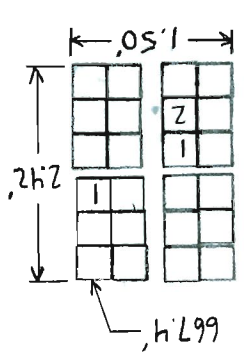
RIM = 672.08'



NORTH ARROW



(24) 3 1/2" T.C.



VAULT.DWG
REVISED 10/25/04

NOTES:

LEGEND

- EMPTY CONDUIT
- ① ONE CABLE IN CONDUIT
- ② TWO CABLES IN CONDUIT, ETC.
- ⊗ CONDUIT PLUGGED OR CAPPED
- Ⓐ SEE NOTE A, ETC.

I.D. = INNER DUCT
F.O. = FIBER OPTIC
NOTE: DIAGRAM NOT-TO-SCALE

DISCLAIMER
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JOB #: EJQC311 DATE: 1/27/10

MANHOLE DIAGRAM FORM

PLAN SHEET #: 164

MANHOLE LOCATION: BROADWAY 100'± E. OF CARNEGIE AVE.

TYPE OF MANHOLE: TELE.

UTILITY RECORD MANHOLE #: MAIN CONDUIT # 9 MH "D"

SO-DEEP MANHOLE #: VAULT 17

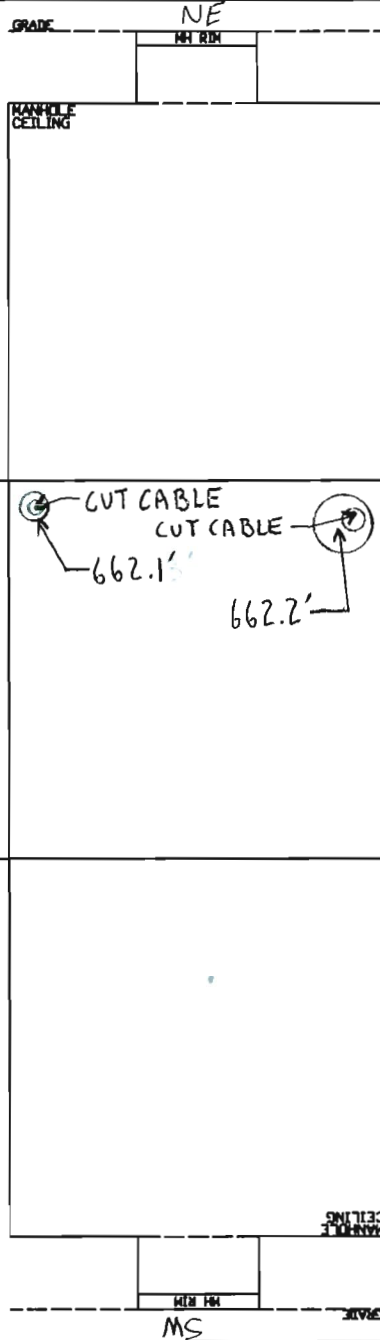
SO-DEEP CREW: P.R./S.E./J.C.

DID THE MANHOLE NEED TO BE DEWATERED?

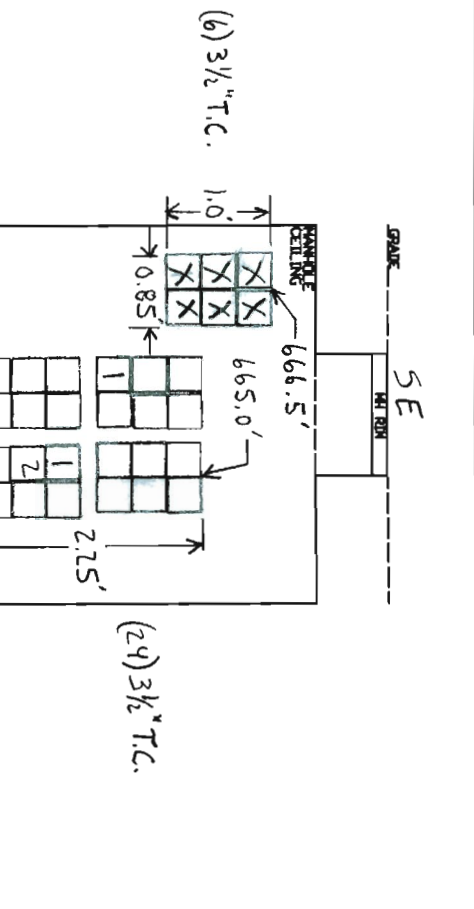
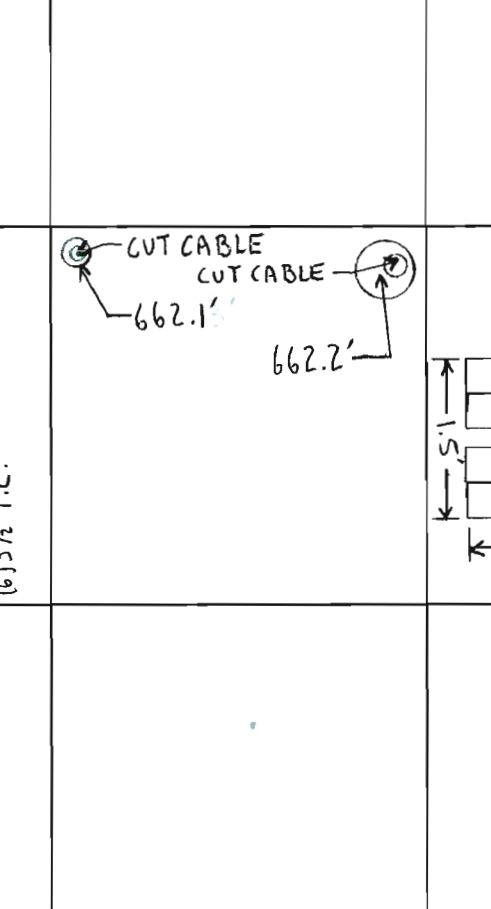
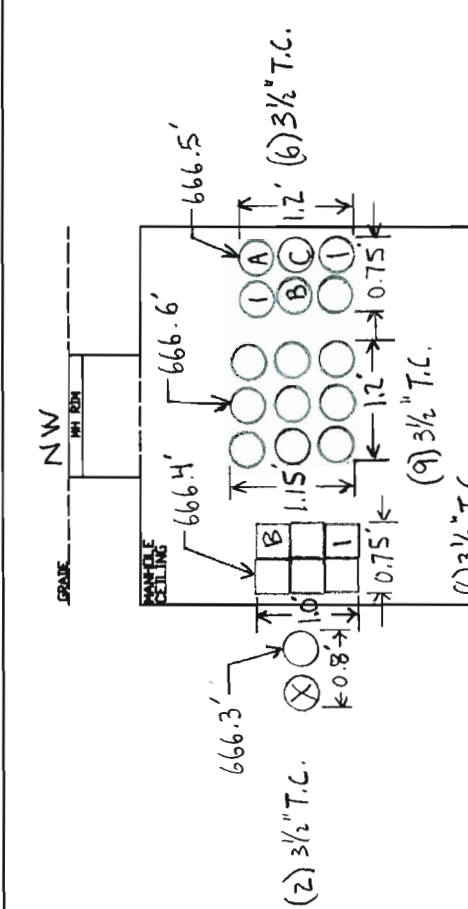
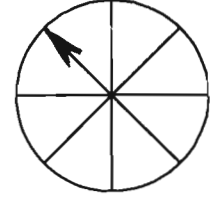
YES NO

CORPORATE HEADQUARTERS
8397 EUCLID AVENUE
MANASSAS PARK, VA 20111
(703) 361-6005

Throat= 667.23'
Bottom= 660.76'
RIM= 669.46'



NORTH ARROW



NOTES: A= CUT
B= PULL WIRE
C= LEAD CABLE

LEGEND

- EMPTY CONDUIT
- ① ONE CABLE IN CONDUIT
- ② TWO CABLES IN CONDUIT, ETC.
- ⊗ CONDUIT PLUGGED OR CAPPED
- Ⓐ SEE NOTE A, ETC.

I.D. = INNER DUCT
F.O. = FIBER OPTIC
NOTE: DIAGRAM NOT-TO-SCALE

DISCLAIMER

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VAULT.DWG
REVISED 10/25/04



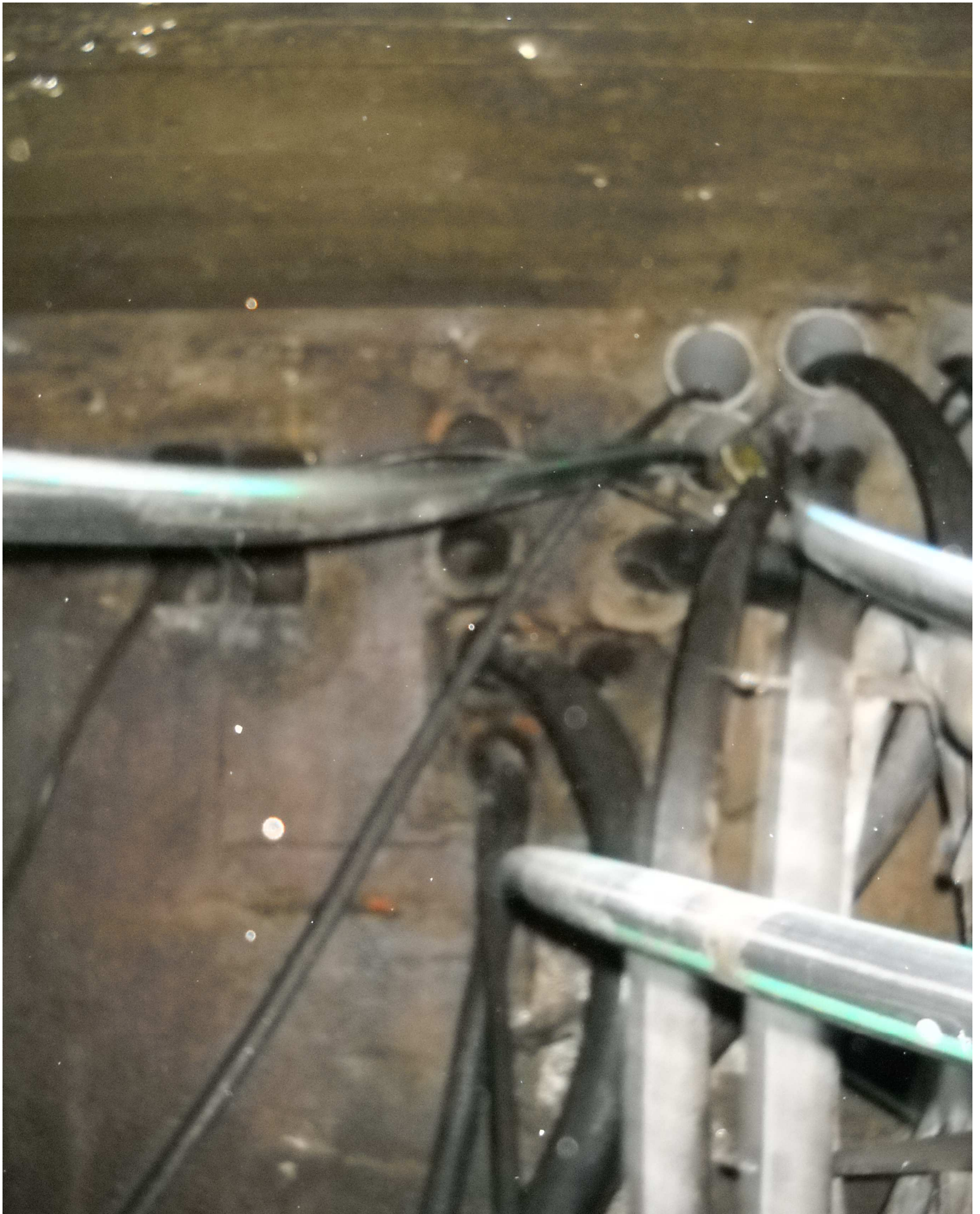






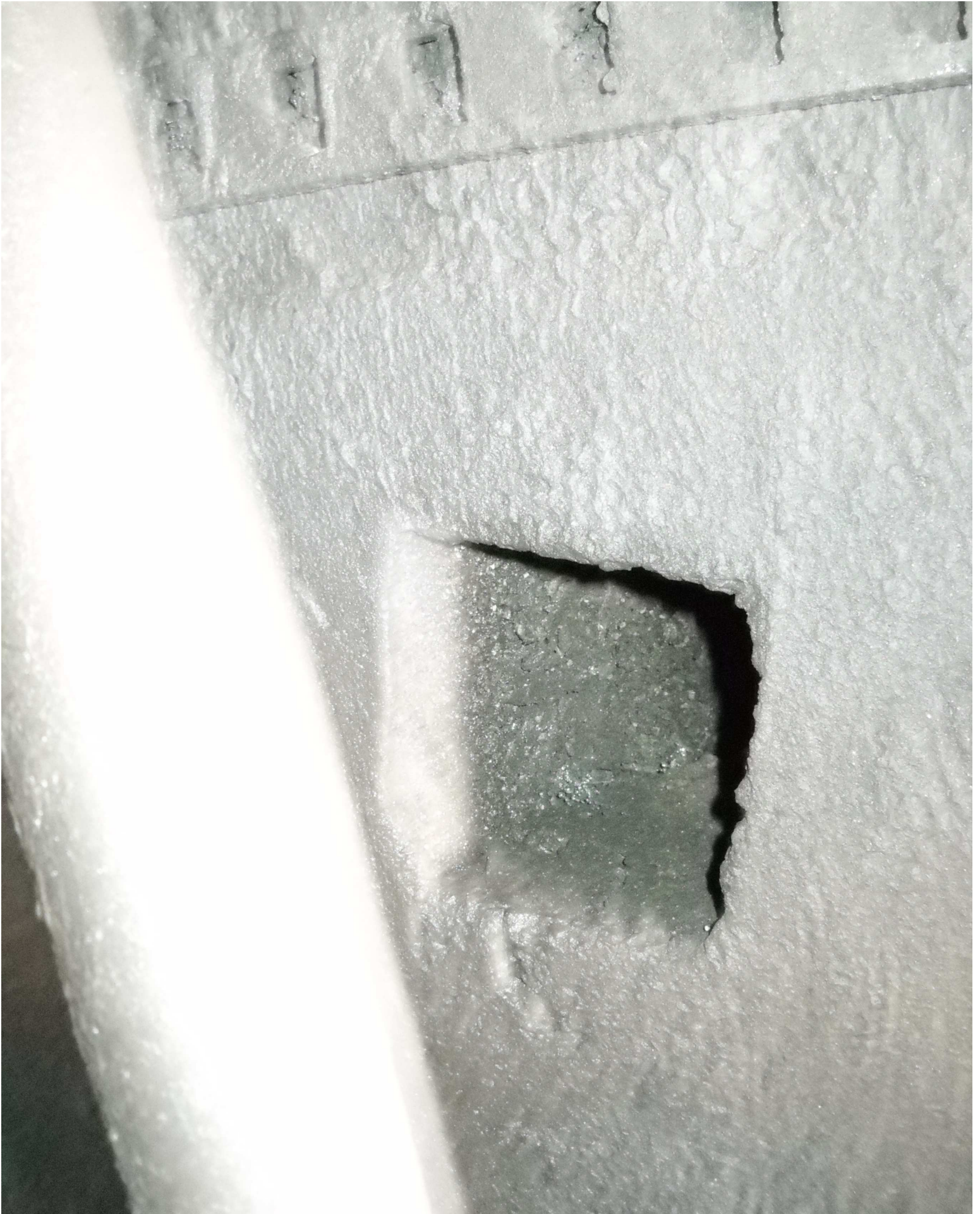
















JOB #: EJQC311 DATE: 1/25/10
 PLAN SHEET #: 184

MANHOLE DIAGRAM FORM

MANHOLE LOCATION: INTR. BROADWAY AND E. 14TH ST.

TYPE OF MANHOLE: TELE.

UTILITY RECORD MANHOLE #: MAIN CONDUIT #10 MH "C"

SO-DEEP MANHOLE #: VAULT 22

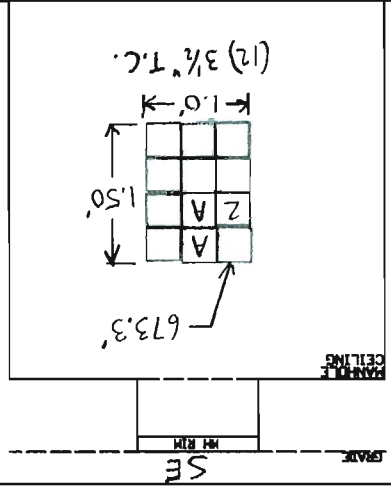
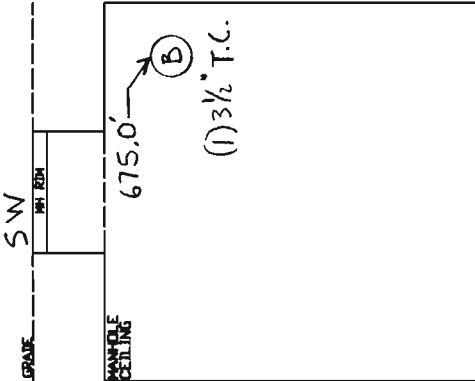
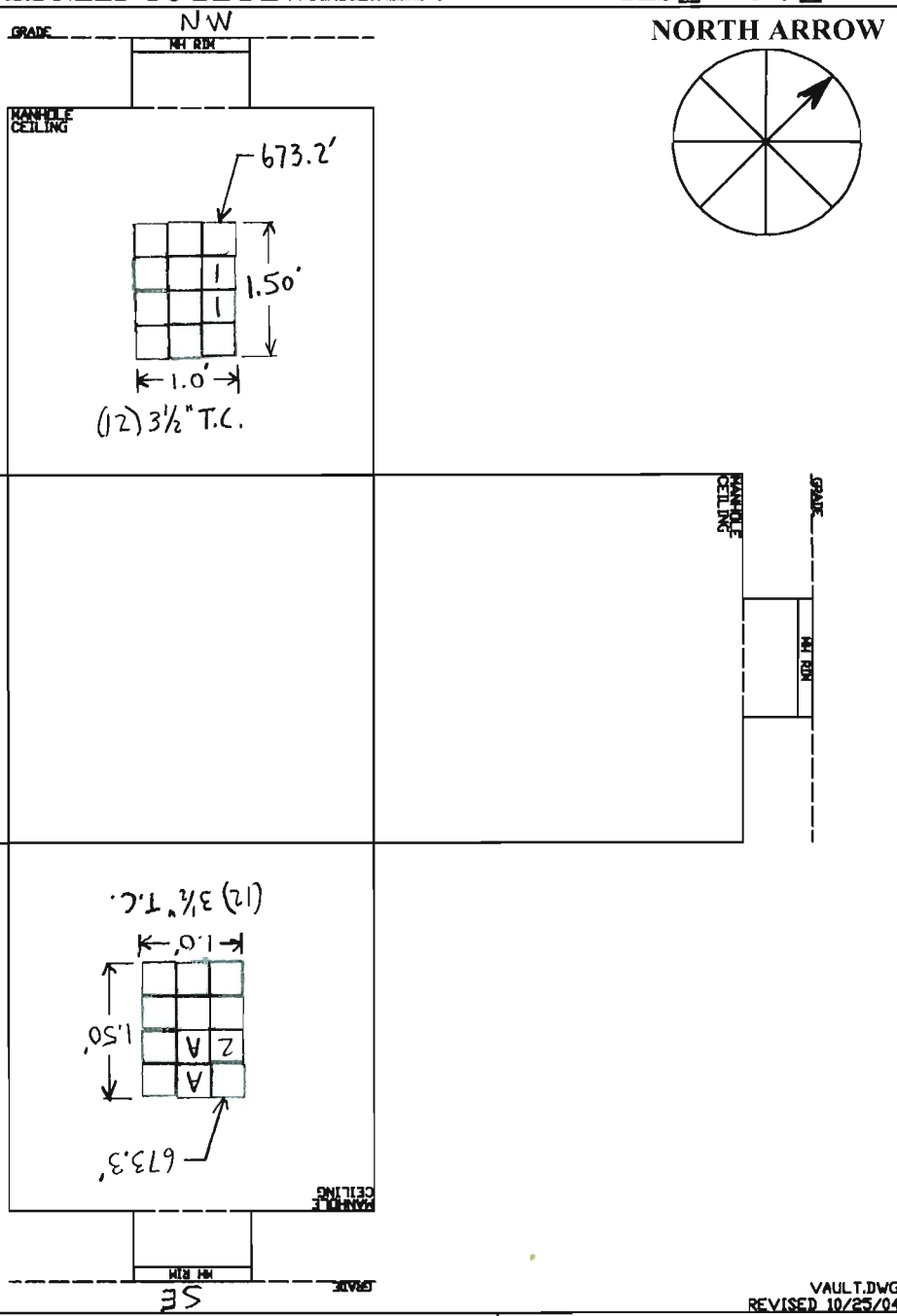
SO-DEEP CREW: P.R./J.C./S.E.

DID THE MANHOLE NEED TO BE DEWATERED? YES NO

Performing out-of-sight work ... with vision!

CORPORATE HEADQUARTERS
 8397 EUCLID AVENUE
 MANASSAS PARK, VA 20111
 (703) 361-6005

Throat= 675.33'
 Bottom= 669.94'
 RIM= 677.59'



NOTES: VAULT IN POOR CONDITION

A = 1 CUT
 B = 1 WIRE

DISCLAIMER

SO-DEEP DOES NOT GUARANTEE OR WARRANT IN ANY WAY, AND, ACCORDINGLY, DOES NOT UNDERTAKE ANY LIABILITY OR RESPONSIBILITY WHATSOEVER FOR THE ACCURACY OR RELIABILITY OF THE DIAGRAM OR DIMENSIONS SHOWN HEREIN. THIS ROUGH FIELD DATA IS GATHERED BY SO-DEEP FOR ITS INTERNAL PURPOSES ONLY AND IS MADE AVAILABLE ON A CASE-BY-CASE BASIS AS A COURTESY. THE RECIPIENT RECEIVES THIS DATA WITH FULL UNDERSTANDING OF THE ABOVE DISCLAIMER AND USES ANY SUCH DATA AT THE RECIPIENT'S SOLE RISK AND EXPENSE.

LEGEND

- EMPTY CONDUIT
- ① ONE CABLE IN CONDUIT
- ② TWO CABLES IN CONDUIT, ETC.
- ⊗ CONDUIT PLUGGED OR CAPPED
- Ⓐ SEE NOTE A, ETC.
- I.D. = INNER DUCT
- F.O. = FIBER OPTIC
- NOTE: DIAGRAM NOT-TO-SCALE

VAULT.DWG
 REVISED 10/25/04









JOB #: EJQC311 DATE: 12/30/09

MANHOLE DIAGRAM FORM

PLAN SHEET #: 196

MANHOLE LOCATION: BROADWAY @ INTR. W/ 14TH ST.

TYPE OF MANHOLE: TELE,

UTILITY RECORD MANHOLE #: MAIN CONDUIT #11/10 MH"X"/"D"

SO-DEEP MANHOLE #: VAULT 23-24 (2 LIDS)

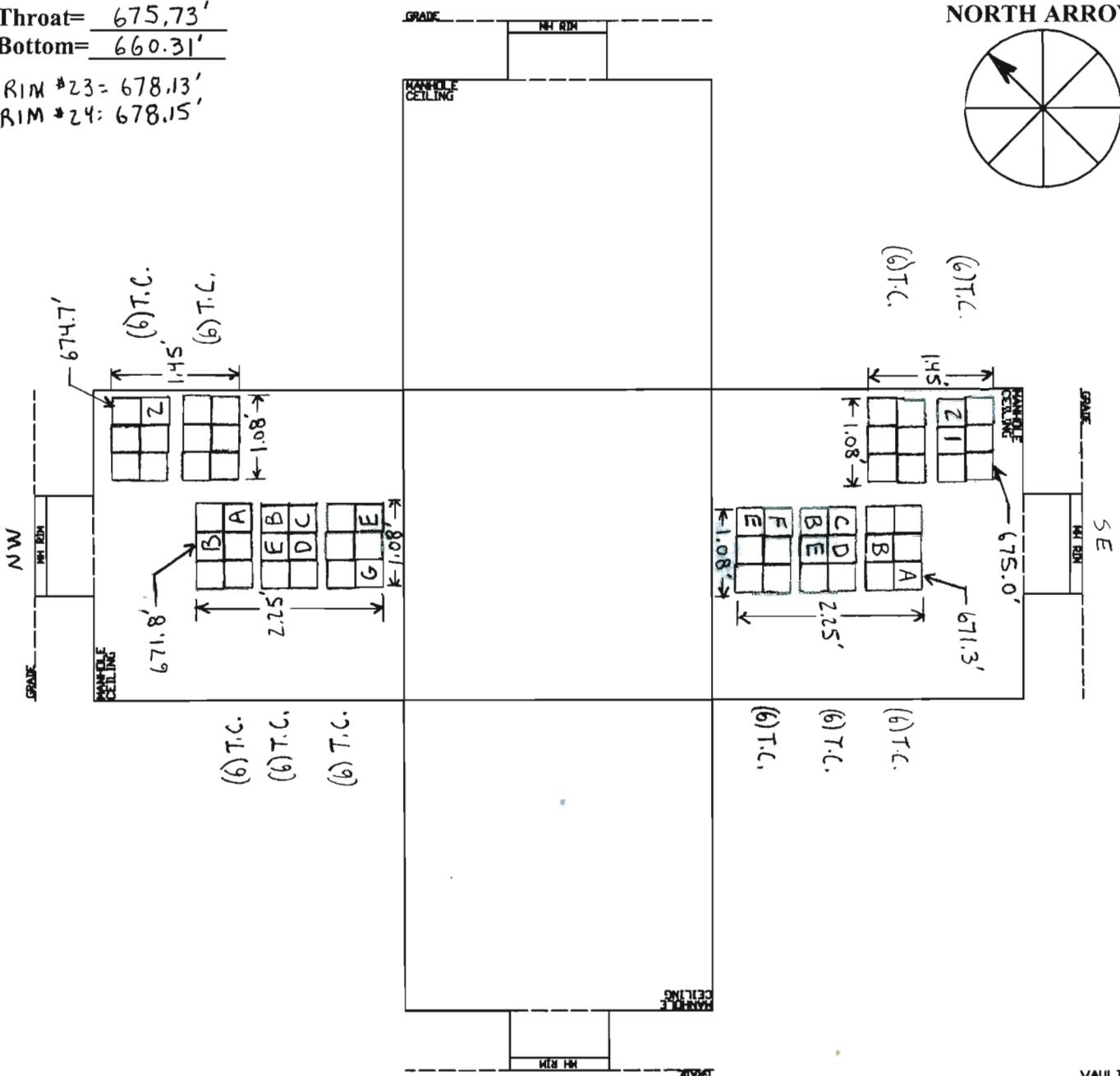
SO-DEEP CREW: R.M./J.C./S.E.

DID THE MANHOLE NEED TO BE DEWATERED? YES NO

Performing out-of-sight work ... with vision

CORPORATE HEADQUARTERS
8397 EUCLID AVENUE
MANASSAS PARK, VA 20111
(703) 361-6005

Throat= 675.73'
Bottom= 660.31'
RIM #23= 678.13'
RIM #24= 678.15'



NOTES: A= A1R F= 1 CUT
B= 2 F.O. G= 1 CONV.-CUT
C= CONV.
D= 3 F.O.
E= 1 F.O.

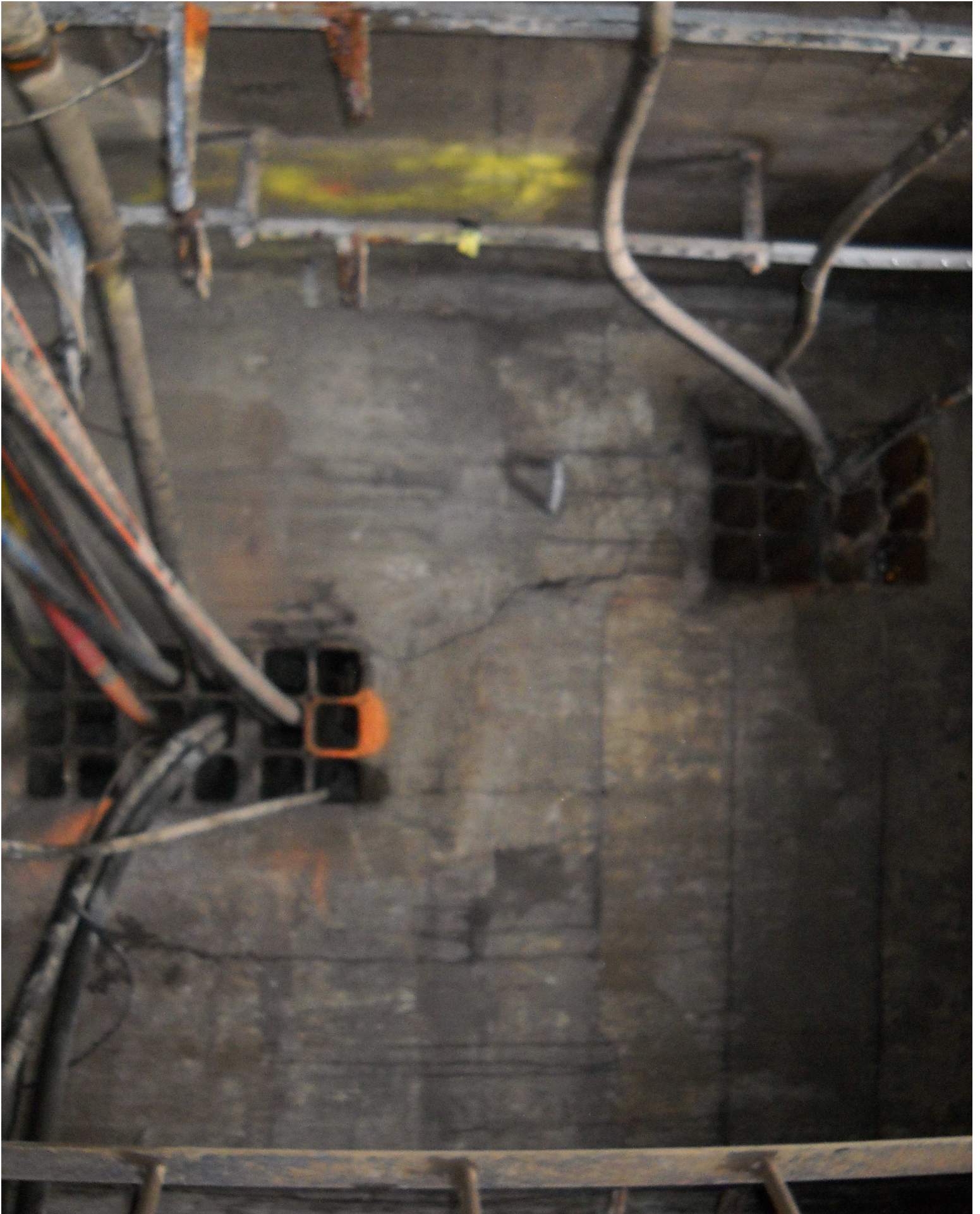
DISCLAIMER
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LEGEND

- EMPTY CONDUIT
- ① ONE CABLE IN CONDUIT
- ② TWO CABLES IN CONDUIT, ETC.
- ⊗ CONDUIT PLUGGED OR CAPPED
- Ⓐ SEE NOTE A, ETC.

I.D. = INNER DUCT
F.O. = FIBER OPTIC
NOTE: *DIAGRAM NOT-TO-SCALE*







JOB #: E1QC311 DATE: 1/25/10

MANHOLE DIAGRAM FORM

PLAN SHEET #: 196

MANHOLE LOCATION: BROADWAY, SE OF E. 14TH ST.

TYPE OF MANHOLE: TELE.

UTILITY RECORD MANHOLE #: MAIN CONDUIT #11 MH "E"

SO-DEEP MANHOLE #: VAULT 25

SO-DEEP CREW: P.R./J.C./S.E.

DID THE MANHOLE NEED TO BE DEWATERED?

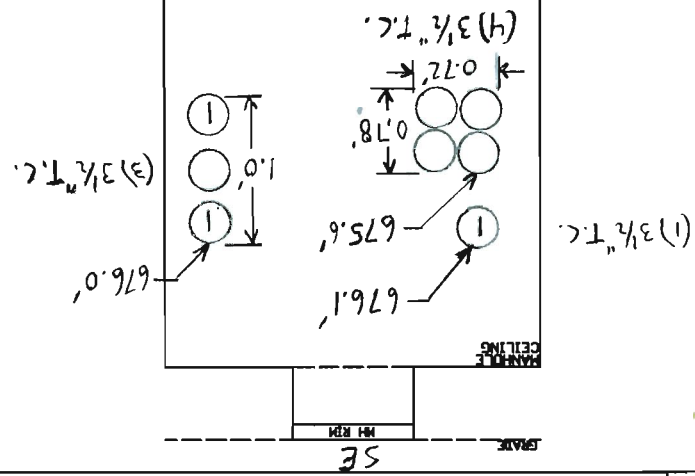
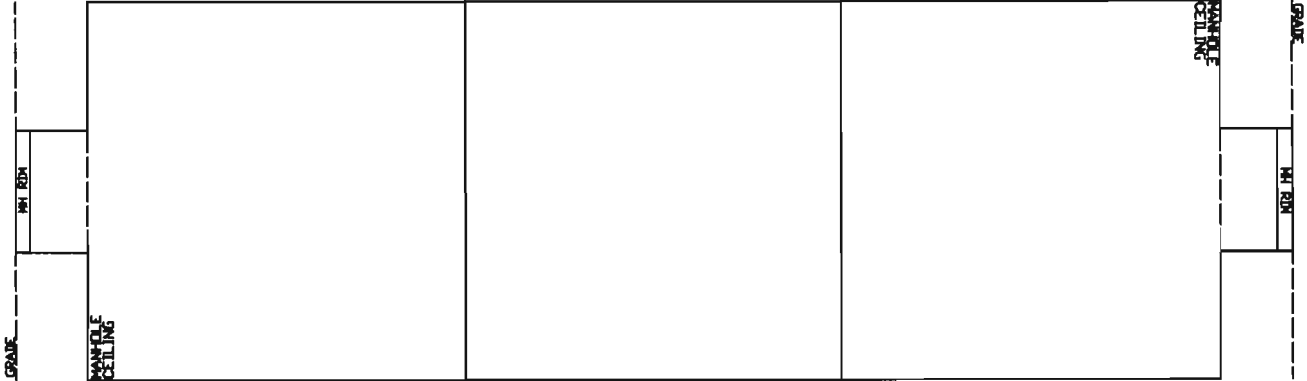
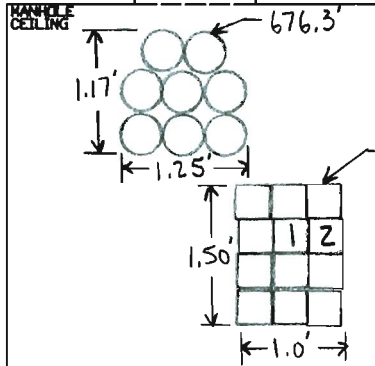
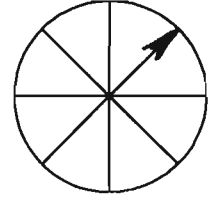
YES NO

CORPORATE HEADQUARTERS
8397 EUCLID AVENUE
MANASSAS PARK, VA 20111
(703) 361-6005

Throat = 677.45'
Bottom = 671.80'
RIM = 680.09'

GRADE
NW
MH RIM

NORTH ARROW



VAULT.DWG
REVISED 10/25/04

NOTES:

LEGEND

- EMPTY CONDUIT
- ① ONE CABLE IN CONDUIT
- ② TWO CABLES IN CONDUIT, ETC.
- ⊗ CONDUIT PLUGGED OR CAPPED
- Ⓐ SEE NOTE A, ETC.

I.D. = INNER DUCT
F.O. = FIBER OPTIC
NOTE: DIAGRAM NOT-TO-SCALE

DISCLAIMER

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JOB #: EJQC311 DATE: 12/30/09

MANHOLE DIAGRAM FORM

PLAN SHEET #: 208

MANHOLE LOCATION: BROADWAY AVE. IN FRONT OF BLDG. # 201 (POST OFFICE)

TYPE OF MANHOLE: TELE.

UTILITY RECORD MANHOLE #: MAIN CONDUIT # 11 MH "B"

SO-DEEP MANHOLE #: VAULT 28

SO-DEEP CREW: R.M./I.C./S.E.

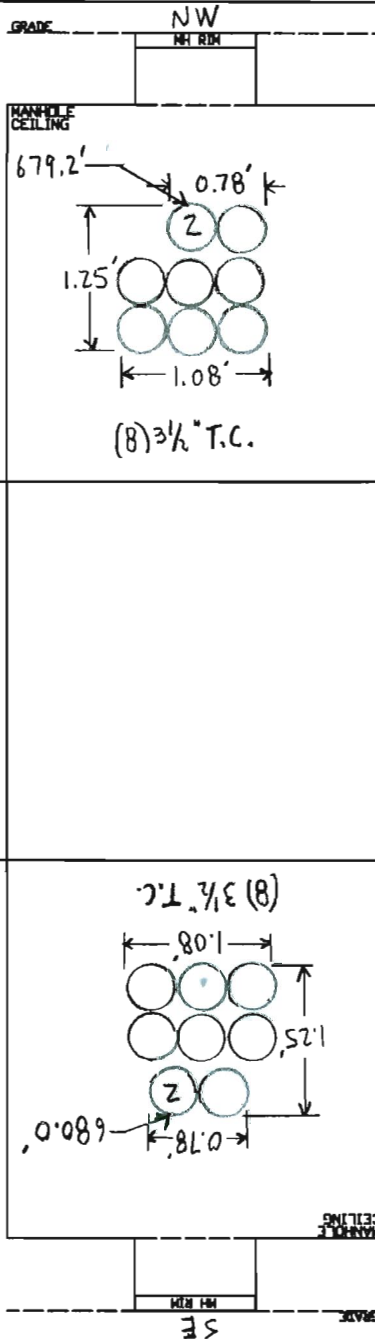
DID THE MANHOLE NEED TO BE DEWATERED?

YES NO

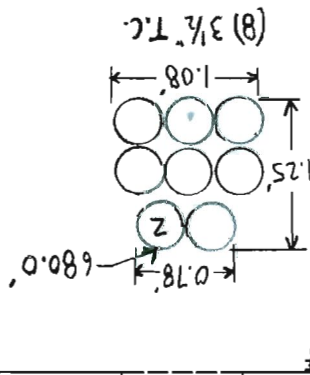
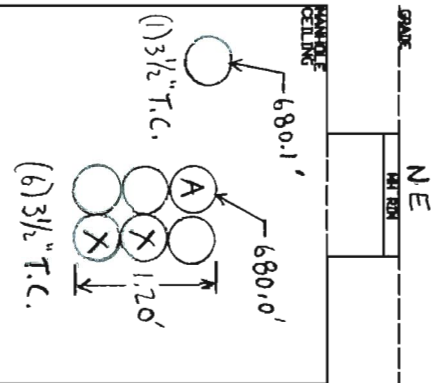
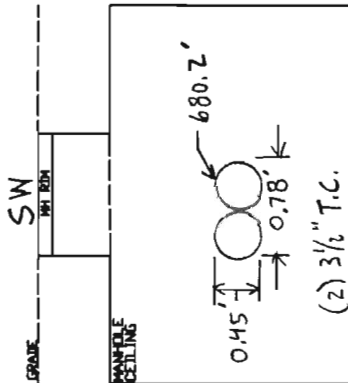
Performing out-of-sight work ... with vision!

CORPORATE HEADQUARTERS
8397 EUCLID AVENUE
MANASSAS PARK, VA 20111
(703) 361-6005

Throat = $681.10'$
Bottom = $677.63'$
RIM = $683.12'$



NORTH ARROW



NOTES: A = PULL CORD

LEGEND

- EMPTY CONDUIT
- ① ONE CABLE IN CONDUIT
- ② TWO CABLES IN CONDUIT, ETC.
- ⊗ CONDUIT PLUGGED OR CAPPED
- Ⓐ SEE NOTE A, ETC.

I.D. = INNER DUCT
F.O. = FIBER OPTIC
NOTE: DIAGRAM NOT-TO-SCALE

DISCLAIMER
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VAULT.DWG
REVISED 10/25/04













JOB #: EJQC311 DATE: 12/30/09

MANHOLE DIAGRAM FORM

PLAN SHEET #: 193

MANHOLE LOCATION: GRAVEL LOT

TYPE OF MANHOLE: TELE. (MCI)

UTILITY RECORD MANHOLE #: MH *32 DRAWING # 0H044323

SO-DEEP MANHOLE #: VAULT 30

SO-DEEP CREW: R.M./J.C./S.E.

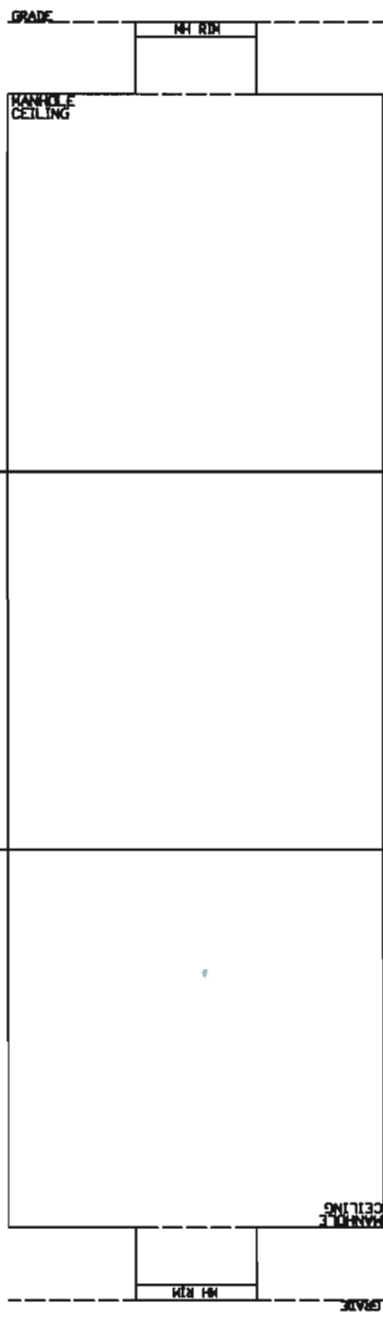
DID THE MANHOLE NEED TO BE DEWATERED? YES NO

Performing out-of-sight work ... with vision

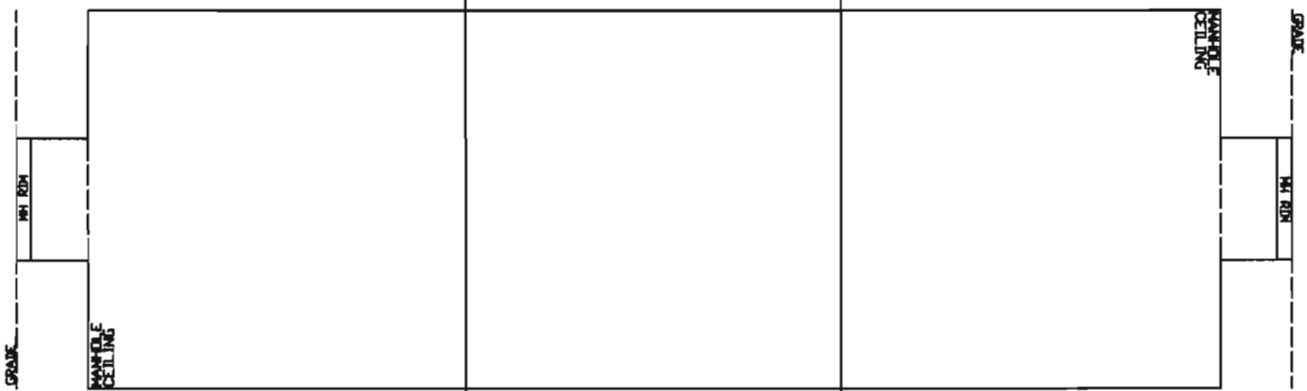
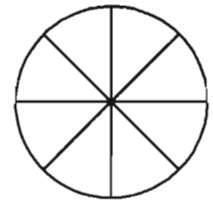
CORPORATE HEADQUARTERS
8397 EUCLID AVENUE
MANASSAS PARK, VA 20111
(703) 361-6005

Throat= _____
Bottom= _____

Rim = 672.44'



NORTH ARROW



VAULT.DWG
REVISED 10/25/04

NOTES: NO MH COVER, FULL OF DIRT

LEGEND

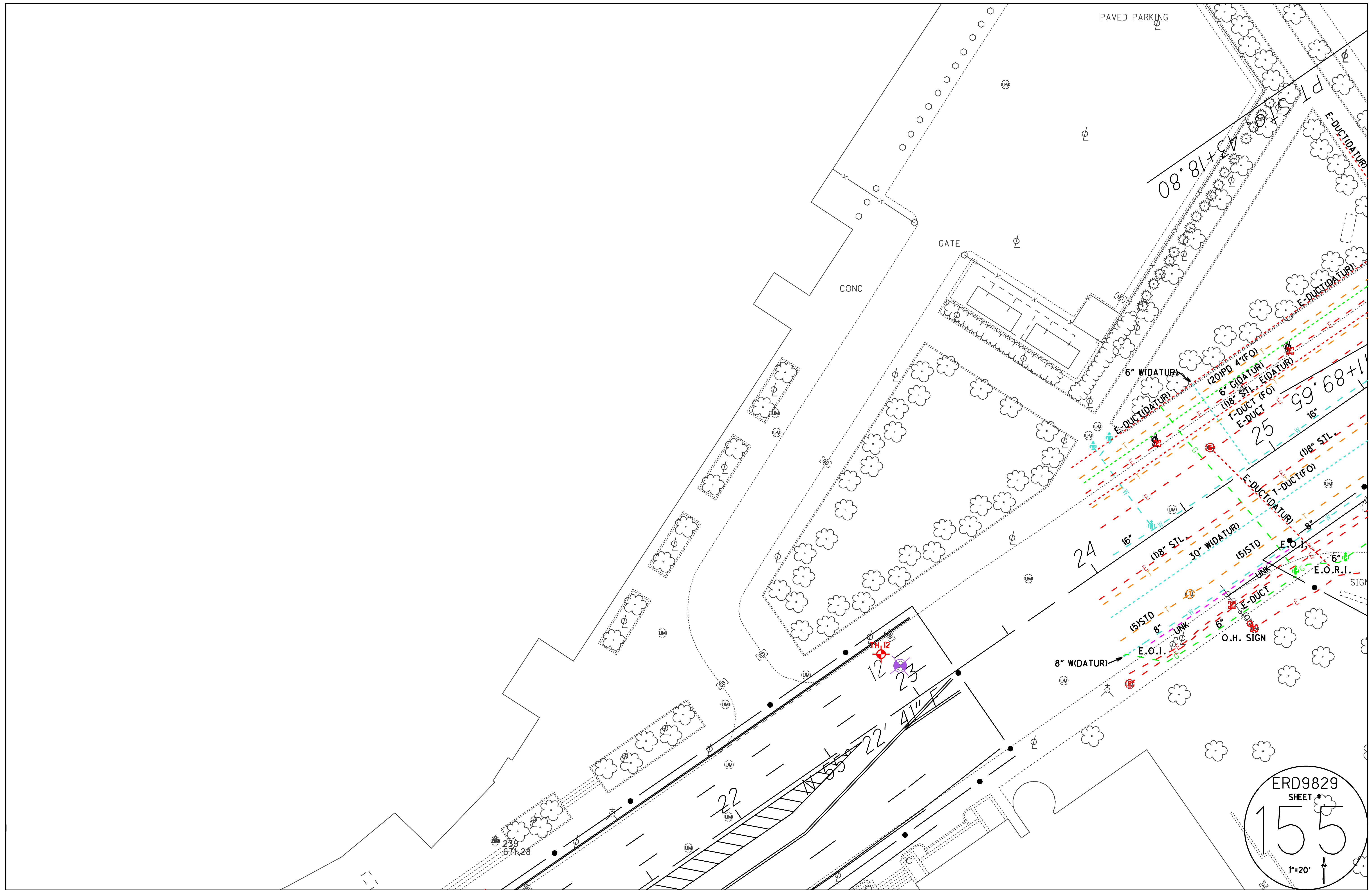
- EMPTY CONDUIT
- ① ONE CABLE IN CONDUIT
- ② TWO CABLES IN CONDUIT, ETC.
- ⊗ CONDUIT PLUGGED OR CAPPED
- Ⓐ SEE NOTE A, ETC.

I.D. = INNER DUCT
F.O. = FIBER OPTIC
NOTE: DIAGRAM NOT-TO-SCALE

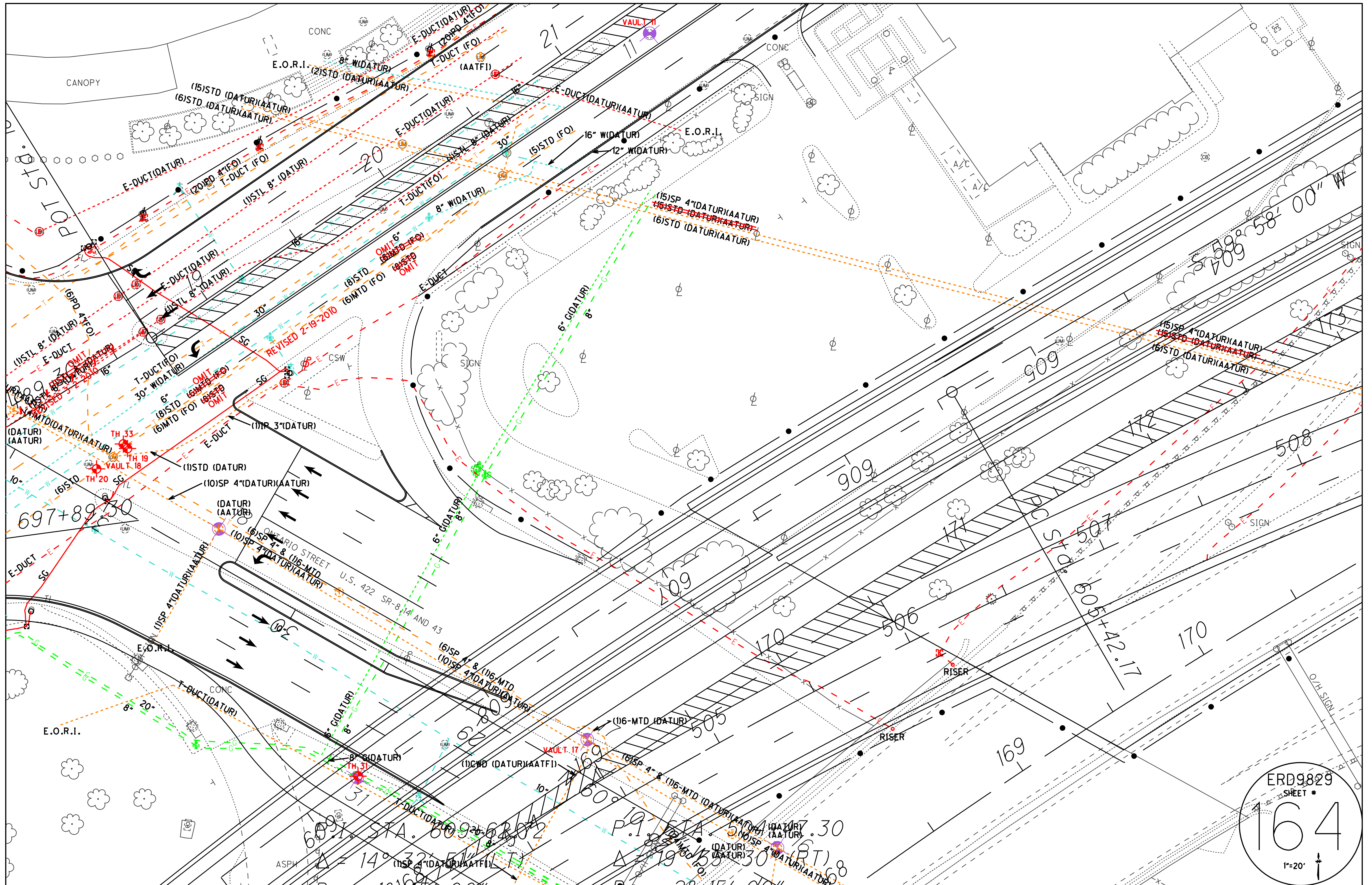
DISCLAIMER

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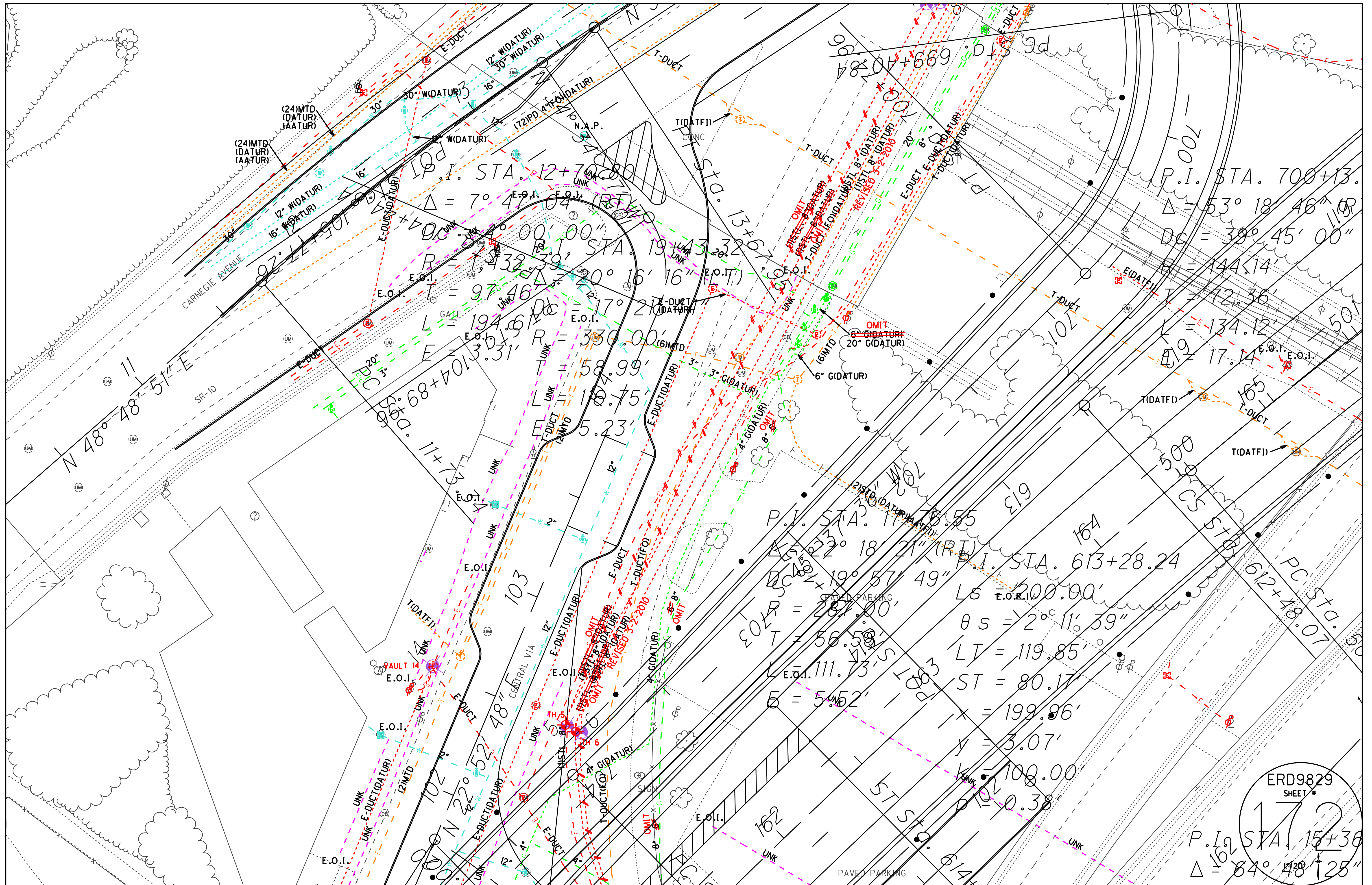


ERD9829
SHEET #
155
1"=20'



ERD9829
 SHEET #
164
 1"=20'





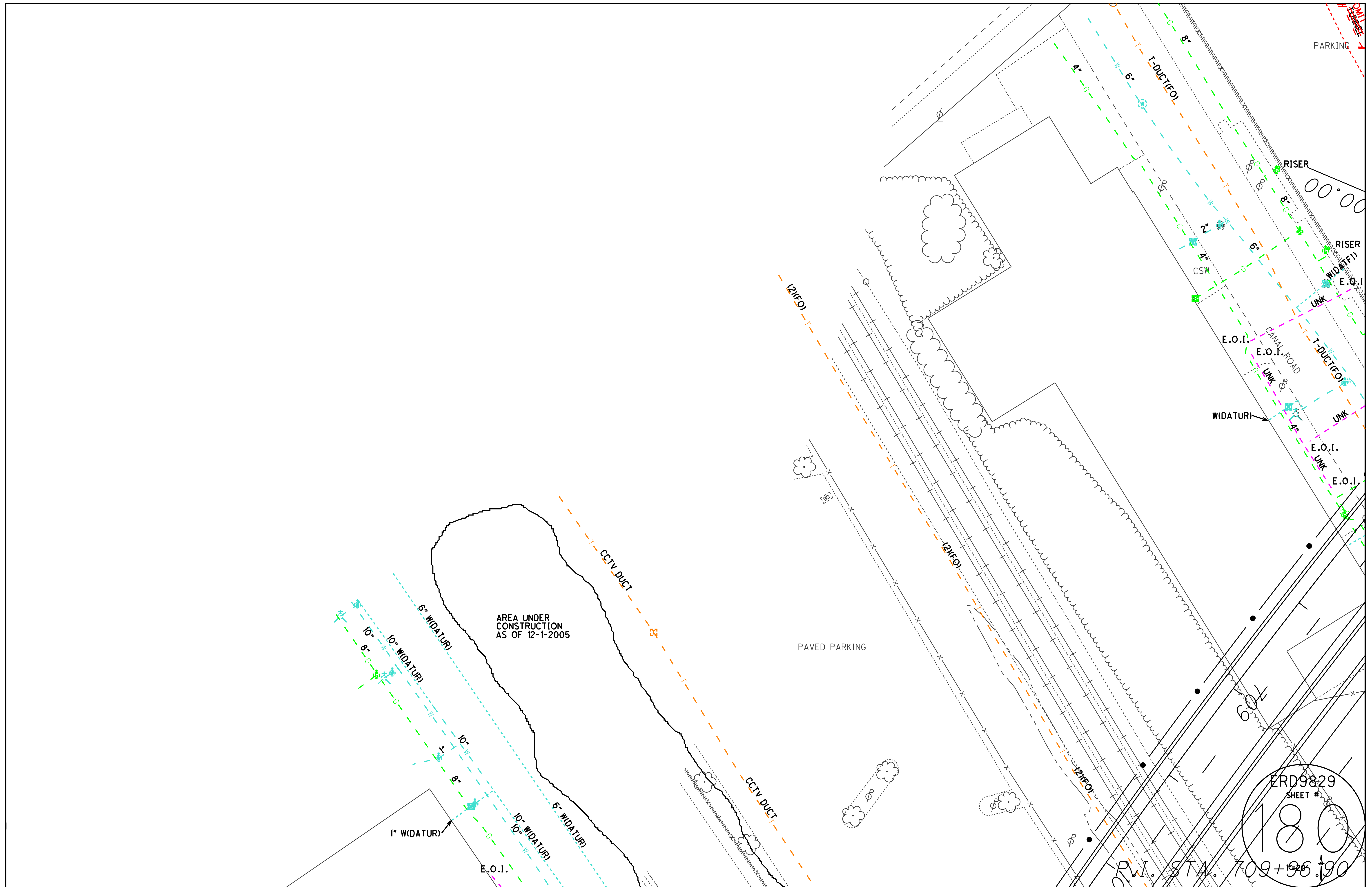
ERD9829
SHEET #
172
P.I. STA. 15+36
 $\Delta = 84^\circ 48' 25''$

P.I. STA. 17+78.55
 $\Delta = 22^\circ 18' 21''$ (RT)
 $DC = 24+19^\circ 57' 49''$
 $R = 287.00'$
 $T = 56.58'$
 $L = 111.73'$
 $E = 5.52'$
 $LS = 200.00'$
 $\theta s = 2^\circ 11' 39''$
 $LV = 119.85'$
 $ST = 80.17'$
 $x = 199.96'$
 $y = 3.07'$
 $K = 100.00'$
 $DT = 0.38'$

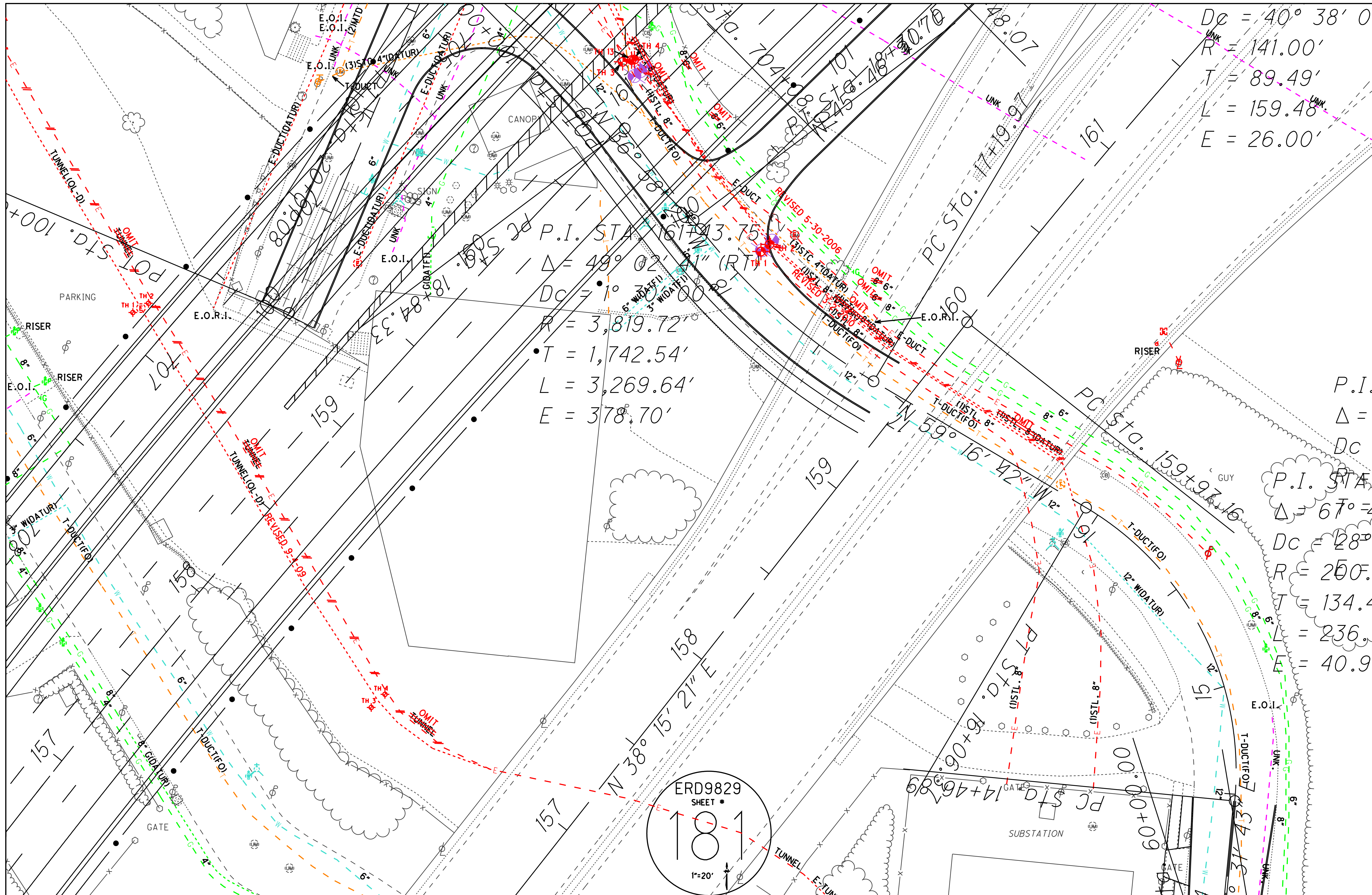
P.I. STA. 12+70.00
 $\Delta = 7^\circ 47' 04''$ (RT)
 $DC = 19+43.29'$
 $R = 432.9'$
 $T = 97.46'$
 $L = 194.61'$
 $E = 3.31'$
 $R = 330.00'$
 $H = 58.99'$
 $L = 107.75'$
 $E = 5.23'$

P.I. STA. 700+13.
 $\Delta = 53^\circ 18' 46''$ (RT)
 $DC = 39^\circ 45' 00''$
 $R = 144.14'$
 $T = 72.36'$
 $L = 134.12'$
 $E = 17.14'$

P.I. STA. 613+28.24
 $\Delta = 19^\circ 57' 49''$ (RT)
 $DC = 24+19^\circ 57' 49''$
 $R = 287.00'$
 $T = 56.58'$
 $L = 111.73'$
 $E = 5.52'$



ERD9829
 SHEET #
 180
 R.W. STA. 709+96.190

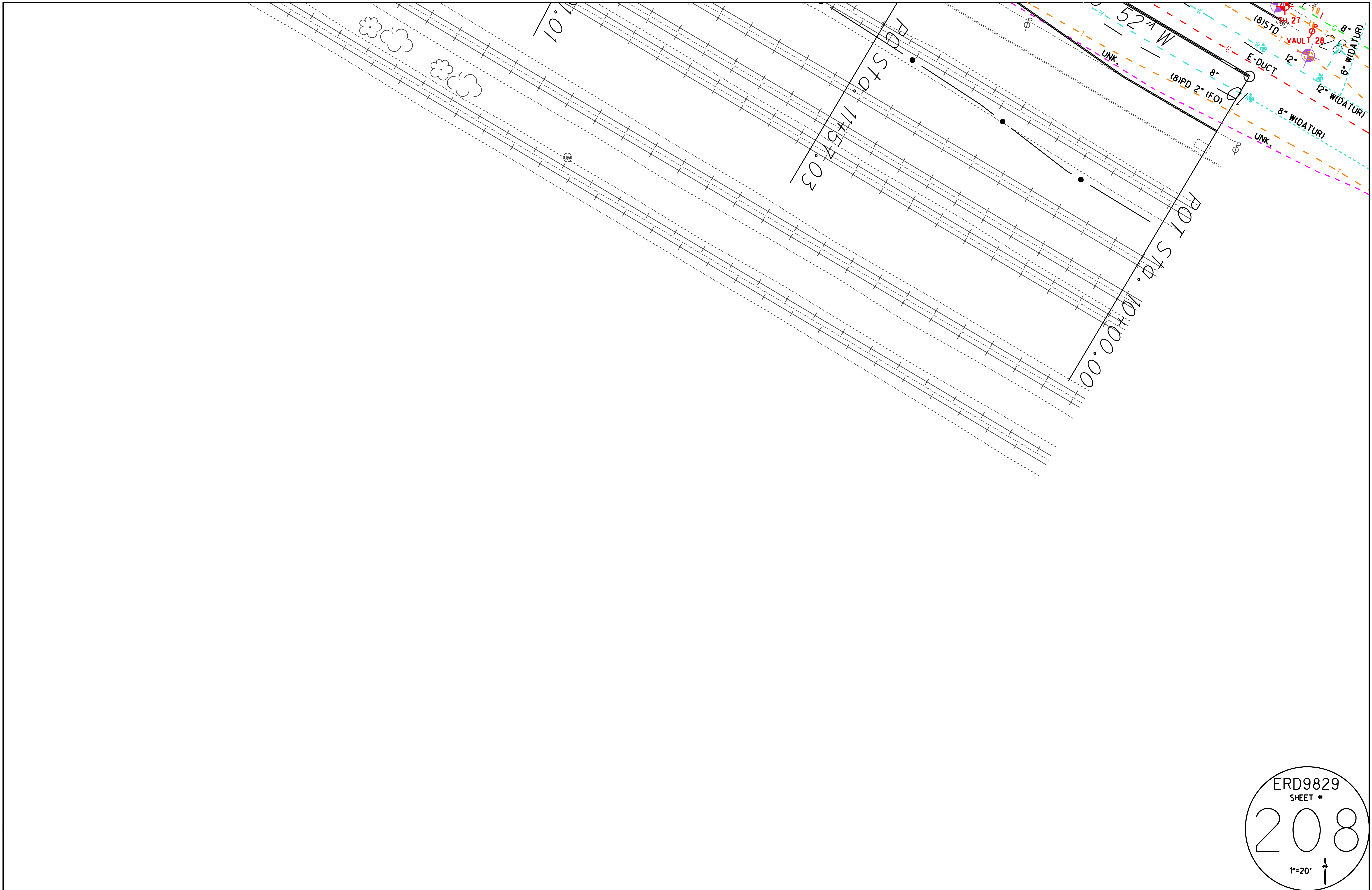


$Dc = 40^{\circ} 38' 0''$
 $R = 141.00'$
 $T = 89.49'$
 $L = 159.48'$
 $E = 26.00'$

P.I. STA. 161+13.75
 $\Delta = 49^{\circ} 02' 11''$ (RT)
 $Dc = 1^{\circ} 7' 00''$
 $R = 3,819.72'$
 $T = 1,742.54'$
 $L = 3,269.64'$
 $E = 378.70'$

P.I. STA. 159+97.16
 $\Delta = 67^{\circ} 41' 11''$
 $Dc = 28^{\circ} 00' 00''$
 $R = 200.00'$
 $T = 134.40'$
 $L = 236.00'$
 $E = 40.90'$

ERD9829
 SHEET #
181
 1"=20'
 NORTH



ERD9829
SHEET #
208
1"=20'