FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

161
279

CUYAHOGA COUNTY
CUY-71-13.68

NOTE: SEE SHEET NO. 163 FOR RECONN. TAP NOS. 128776 & 115284

0+61.00 ℄ 12" W.M. = 26' LT. STA. 8+19.38 SURVEY ℄

SEE SHEET Nº 156 FOR NOTES & RECOMMENDED ALIGNMENT OF TEMP. 24" WATER MAIN

SLEEVE
PROVIDE TEMP. PLUG WITH 2 OUTLETS FOR TESTING & CHLORINATING

0+77
18" OFFSET B&S

SOLID SLEEVE SHORT, CL "D" TO CONNECT

0+01.57
12" INSERTING VALVE NO. 4 VALVE BOX

3'G

EXIST. W.M.

6" H.P.G.

TEMP. 24" FLANGE VALVE (SEE NOTE)

TEMP. 24" WATER MAIN

CONC. PIER
2" AIR COCK

ACCESS M.H. TYPE "A"

4" DRAIN

CLOSURE

0+00 CONNECT TO EXIST. 36" W.M. SEE DETAIL "A"

0+00.00 ℄ 36" W.M. = 26' 60" RT. STA. 7+82.28 ℄ SURVEY

2-ACCESS M.H.'S. TYPE "A" SEE SHT. 164 FOR DETAILS

1+31.26
45° BEND PIER

1+49.6
VERT. BEND

2+17.22
VERT. BEND

1+36.41
18 BEND PIER

1+06.13
18 BEND PIER

12" COMB. SEWER TO BE ABANDONED

0+60
℄ 30" GATE VALVE

0+68
℄ OUTLET (SEE PROFILE)

TEST BULKHEAD & BLOCKING FOR FULL TEST

0+16
45° BEND PIER

EXISTING 6" WATER MAIN & PEELOR

AVENUE

SEE SHEET Nº 162 FOR NOTES ON TEMP. LINES AND TIE IN'S

RELOCATED 36" WATER MAIN

RELOCATED 12" WATER MAIN

EXISTING ℄ IN

ABANDON EXISTING 12" WATER MAIN

MEMPHIS AVE.

SURVEY ℄

ABAND. EXISTING 36" WATER MAIN & REMOVE

SEE DETAIL SHEET Nº 162
CONCRETE CRADLE
12" WIDE × 25' LONG – LONGITUDINALLY CENTERED ON AXIS OF 114" SEWER

4+61 SEE DETAIL SHEET 168
4" DRAIN VALVE & VAULT (TOP OF VAULT TO BE BURIED 1' BELOW SURFACE)

4+64.00
VERT. BEND

6'-0" MIN.

4+72
VERT. BEND

5+40
VERT. BEND

5'-0" VERT BEND

5' SIDEWALK

12" SEWER TO BE ABAND.

NEW PAVEMENT 9" THICK REINF. CONC.

18" SANITARY SEWER

12" C.I. PIPE
12" C.I. SPIGOT OUTLET IN CONC. PIPE
2-12" 30LD SLEEVE CL. D, SHORT
12" × 12" BRANCH SLEEVE & VALVE, Nº 4 VALVE BOX
12" OFF SET

6+50.98 ℄ 36" W.M. = 18.06' LT. 13+82.93 SURVEY ℄

TEMP. 24" FLANGE VALVE Nº 4 VALVE BOX

5+60.16
45° BEND, PIER

5+82.4
℄ 30" GATE VALVE & VAULT

CONC. PIER

TYPE A ACCESS M.H.

TEST PRESSURE THIS POINT
PROVIDE TEST HEAD & BLOCKING FOR FULL TEST
6+14 ± CONNECT TO EXIST. 36" W.M. DETAILS OF CONN. BY PIPE MFG. SEE DETAIL SHEET Nº 162

EXISTING 30" VALVE & ACCESS M.H.'S. MANHOLE COVERS & RINGS TO BE ADJUSTED TO FINAL GRADE

TEMP. 24" WATER MAIN

CLOSURE CONC. PIER

DRAIN VALVE BOXES TO BE ADJUSTED TO FINAL GRADE

5+51.84
18 BEND, PIER

6+17.33
13 45° BEND, PIER

6+29
18 BEND, PIER

PROVIDE TEMP. PLUG WITH 2 OUTLETS FOR TESTING
SLEEVE

6+60 ±
REMOVE EXIST. 18 BEND & CONN. TO 12" W.M.

EXIST. 12" TEE & 12" GATE 6+54, INSTALL NEW SLEEVING VALVE, Nº 4 VALVE BOX

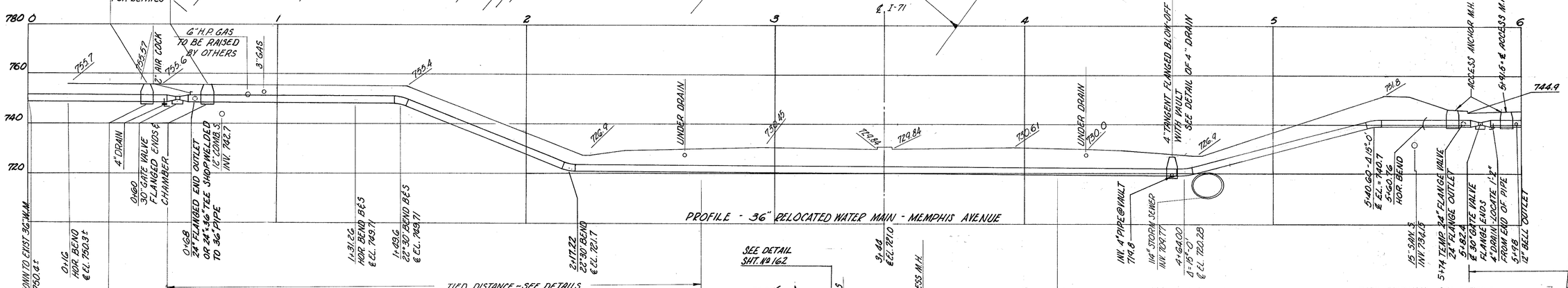
TEMP. 36" × 24" BRANCH SLEEVE & VALVE Nº 4 VALVE BOX

6+60.55 ℄ 12" W.M. = 9' RT. 13+83.50 ℄ SURVEY

CONTRACTOR SHALL PROVIDED REINFORCING BANDS & ANCHOR ANGLES ON EXISTING PIPE & INSTALL PLAIN ANCHOR AGAINST ACCESS M.H., SEE ACCESS M.H. TYPE "A" FOR MINIMUM DIMENSIONS.

NOTES: UPON COMPLETION OF NEW 36" W.M., TEMP. 24" W.M.'S SHALL BE DISCONNECTED FROM 36" W.M. AND TEMP. 24" VALVES & 36" × 24" TAPPING VALVES SHALL BE LEFT IN PLACE. THE TEMP. W.M.'S SHALL BE REMOVED UPON COMPLETION OF THE 36" W.M. SEE WATERWORK NOTES FOR PAYMENT.

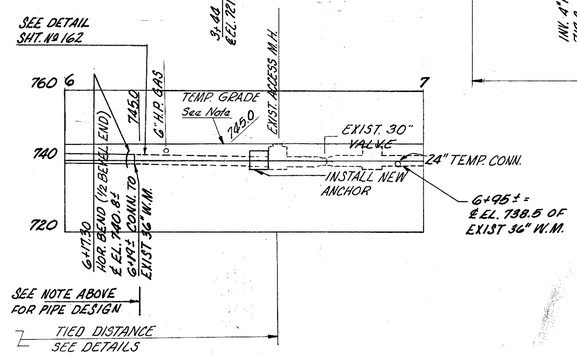
AFTER REMOVAL OF TEMP. 24" LINES PROVIDE 24" BLIND FLANGES WITH CONC. PIERS AT ALL BARE ENDS OF VALVES. 24" VALVES TO HAVE Nº 4 VALVE BOXES & BYPASS VALVES TO HAVE Nº 2 VALVE BOXES.



NOTE: PIPE IN THIS LOCATION TO BE DESIGNED FOR H-20 LOADING WITH 2½' COVER MIN. 47' PIPE STA. 5+74 TO 6+21

SURVEY TIES
TIE TO CITY MONUMENT AT INTERSECTION OF BELLAIRE & W. 117th ST.
CITY MONUMENT = 4.83' LT. STA. 4+99.88 MEMPHIS ℄ SURVEY
BRG. MEMPHIS SURVEY ℄ = S. 42° 56' 34" E.
BRG. CITY ℄ = S. 42° 57' 29" E.

NOTE:
FOR TEMP. GRADE TO CONNECT STRUCTURE TO EXISTING PAVEMENT. SEE MEMPHIS AVENUE PROFILE.



PROTTED	INKED	CHECKED
BY: DATE:	BY: DATE:	BY: DATE:

DESCRIPTION	BY	DATE
TOPOGRAPHY		
UTILITIES		
DRAINAGE		
R. O. W.		
QUANTITIES		

1ST. HIGH SERVICE DISTRICT

DEPARTMENT OF PUBLIC UTILITIES
DIVISION OF WATER AND HEAT
CLEVELAND, OHIO

APPROVED, DEC. 21, 1964.

DIRECTOR OF PUBLIC UTILITIES
COMMISSIONER OF WATER AND HEAT
COMMISSIONER DIVISION OF UTILITIES - ENGINEERING
ENGINEER OF CONSTRUCTION & SURVEYS
ENGINEER OF DESIGN

HORIZONTAL & VERTICAL SCALES: 1" = 20'

RACKOFF ASSOCIATES
ENGINEERS COLUMBUS, OHIO

MEDINA FREEWAY RELOCATION OF 12" & 36" WATER MAINS MEMPHIS AVENUE

Designed	Drawn	Traced	Checked	Reviewed	Date	Revised