

CALC. BY MB DATE 10/84  
CHKD. BY JO 10/89

FED. RD. DIVISION STATE PROJECT  
5 OHIO MED-71-2250

6  
13

MEDINA COUNTY  
MED-71-2250 (N.B.)  
IR-71-4(6)224 PART II

SHEET NUMBER													ITEM	TOTAL	UNIT	DESCRIPTION
2	3	4	5	6	7	8	9	10	11	12	13					
							1						SPEC	1	EACH	MOTORIST SERVICES BUILDING INTERIOR MODIFICATIONS (EXCEPT ELECT. & PLUMBING WORK)
	1												SPEC	1	EACH	REST AREA WATER RESERVOIR TANK CLEAN-OUT (EXCEPT ELECT. & PLUMBING WORK)
						275							SPEC	275	LN.FT.	SNOW FENCE TREE PROTECTION
						1							SPEC	1	EACH	CONC. SLAB FOR PICNIC TABLE
						4							SPEC	4	EACH	PICNIC TABLES
						2							SPEC	2	EACH	WASTE RECEPTACLE SLEEVE
						1							SPEC	1	EACH	CHARCOAL GRILL AND SERVING TABLE (WITH SLAB)
						2							SPEC	2	EACH	WASTE RECEPTACLE SLAB
						2							SPEC	2	EACH	WOOD BENCH
						1							SPEC	1	EACH	SHELTER HOUSE WITH ASPHALT SHINGLE ROOF
						LUMP							201	LUMP		CLEARING AND GRUBBING
						1020							202	1020	SQ.FT.	WALK REMOVED
						50							202	50	SQ.YD.	PAVEMENT REMOVED
						LUMP							202	LUMP		STRUCTURES REMOVED
						10							202	10	LN.FT.	CURB REMOVED
						160							202	160	LN.FT.	FENCE REMOVED
						LUMP							203	LUMP		EXCAVATION, NOT INCLUDING EMBANKMENT
						LUMP							203	LUMP		EMBANKMENT
								632	1000	811			603	2443	LN.FT.	8" SANITARY SEWER, AS PER PLAN
								2	4	2			604	8	EACH	MANHOLE MODIFIED, AS PER PLAN
						2							604	2	EACH	STANDARD NO. 3A CATCH BASIN RECONSTRUCTED TO GRADE
						10							605	10	LN.FT.	CURB STANDARD TYPE G
						1004							606	1	EACH	CURB RAMP, STANDARD TYPE I
						131							606	1004	SQ.FT.	7" CONCRETE WALK, AS PER PLAN
						33							606	131	SQ.FT.	4" CONCRETE WALK
						130							606	33	SQ.YD.	TOPSOIL FURNISHED AND PLACED
						LUMP							606	130	SQ.YD.	SODDING, AS PER PLAN
						200							606	LUMP		MOVING, AS PER PLAN
						55							606	200	SQ.YD.	SEEDING AND MULCHING
						11							621	55	LN.FT.	CROSSWALK LINES
						3							621	11	LN.FT.	CURB MARKING
						25							630	3	SQ.FT.	SIGNS, FLAT SHEET
													630	25	LN.FT.	GROUND MOUNTED SUPPORTS, NO. 2 POSTS
LUMP													614	LUMP		MAINTAINING TRAFFIC
													623	LUMP		CONSTRUCTION LAYOUT STAKES
													624	LUMP		MOBILIZATION
LUMP													615	LUMP		FIELD OFFICE
													TOTAL BID GENERAL CONTRACT			

$$\frac{7}{13}$$
$$\frac{7}{13}$$
[illegible]



BENCH MARK:  
TOP OF WELL CASING @ N.B. REST AREA &  
STA. 88+36, 66.5' RT.  
ELEV. +1173.58

11/8/84  
10/8/84

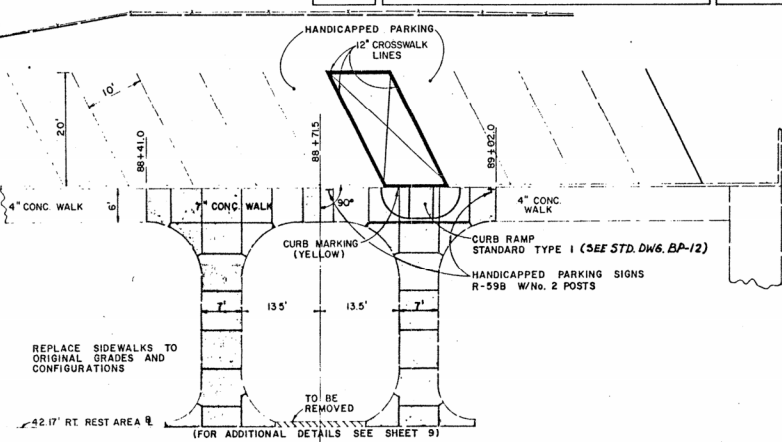
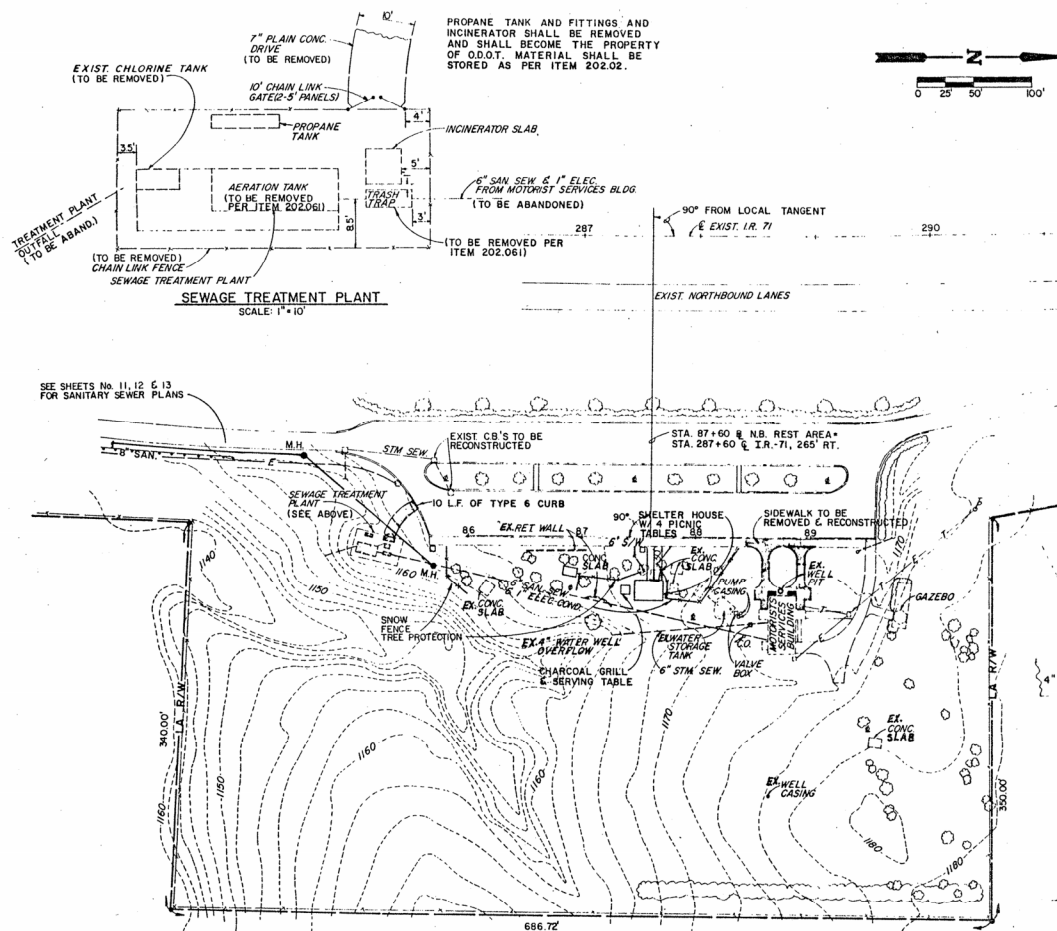
F.H.W.A.	STATE	PROJECT
5	OHIO	MED-71-22.50

8  
13

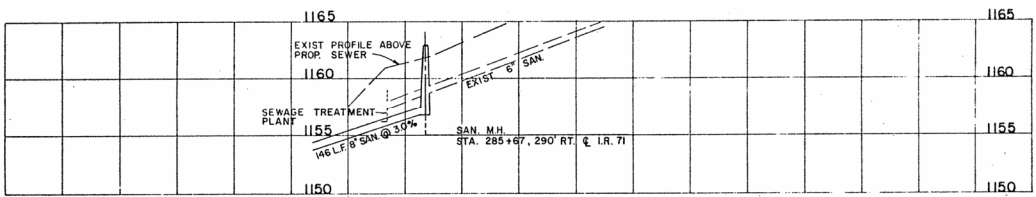
MEDINA COUNTY  
MED-71-22.50 (N.B.)  
IR-71-4(61)224 PART II

# ESTIMATED QUANTITIES

ITEM NO.	DESCRIPTION	QUANTITY
GENERAL CONTRACT		
275	SNOW FENCE FOR TREE PROTECTION	1 EA
276	CONCRETE SLAB FOR PICNIC TABLE	2 EA
277	WASTE RECEPTACLE SLEEVE	2 EA
278	WASTE RECEPTACLE SLAB	1 EA
279	SHELTER HOUSE WITH ASPHALT SHINGLE ROOF	LUMP
280	CLEARING & GRADING	1020 S.F.
281	WALK REMOVED	50 S.Y.
282	PAVEMENT REMOVED	LUMP
283	STRUCTURE REMOVED	10 L.F.
284	CURB REMOVED	160 L.F.
285	FENCE REMOVED	LUMP
286	EXCAVATION NOT INCLUDING EMBANKMENT CONST.	LUMP
287	EMBANKMENT	2 EA
288	STD. NO. 3A CATCH BASIN RECONST. TO GRADE	1 EA
289	CURB RAMP STANDARD TYPE 1	191 S.F.
290	4" CONCRETE WALK	190 S.F.
291	SODDING, AS PER PLAN	55 L.F.
292	CROSSWALK LINES	11 L.F.
293	CURB MARKINGS	3 S.F.
294	SIGNS, PLAT SHEET	25 L.F.
295	GROUND MOUNTED SUPPORTS, NO. 2 POSTS	1002 S.F.
296	1" CONCRETE WALK AS PER PLAN	10 L.F.
297	CURB STANDARD TYPE 6	55 S.F.
298	TOPSOIL FURNISHED AND PLACED	LUMP
299	MOWING & MULCHING	200 S.Y.
300	PICNIC TABLES	4 EA
301	CHARCOAL GRILL AND SERVING TABLE (W/SLAB)	1 EA
302	WOOD BENCH	2 EA



SIDEWALK AND PARKING DETAIL  
SCALE: 1"=10'



PROFILE

## LEGEND

- ITEMS TO BE REMOVED
- AREAS TO BE PROTECTED WITH SNOW FENCE AS PER GENERAL NOTES
- WASTE RECEPTACLE WITH SLAB
- 6" WOOD BENCH
- CHARCOAL GRILL & SERVING TABLE (W/ SLAB)
- NEW CONCRETE SLAB FOR PICNIC TABLE
- EXIST. 6" SANITARY SEWER & 1" ELECTRICAL CONDUIT
- - - - - EXIST. ELECTRICAL & TELEPHONE CONDUIT
- PROP. 8" SANITARY SEWER & MANHOLES
- ⊥ EXIST. LIGHT POLES
- EXIST. ELECTRICAL PULL BOX

SITE PLAN-NORTHBOUND

FURNISH & INSTALL NEW GFCI RECEPTACLE, BOX & PLATE. CONNECT LINE SIDE TO PANEL "L" CIRCUIT B LOAD SIDE TO RECEPTACLES IN MEN & WOMENS TOILET. ROUTE THRU PANEL TO EXISTING TOILET FROM CONDUITS.

EXISTING PANEL "L"

EXISTING PANEL "B" - REPLACE 2 20A-1P CIRCUIT BREAKERS, 1# 22, 24 W/NEW 20A-2P CIRCUIT BREAKERS

EXISTING HOT WATER HEATER (AOSMITH/ELECTRIC 1 MODEL NO. KEN 120, SERIES 800, 240V, AG, 4500 MAX. WATTS, 120 GAL.) TO BE REMOVED AND REPLACED WITH COMPARABLE UNIT. HEATER TO HAVE TWO (2) ELEMENTS OF 4500 MAX. WATTS (UPPER AND LOWER) FOR NON-SIMULTANEOUS OPERATION WITH TWO (2) SINGLE-THROW THERMOSTATS.

REPLACE EXISTING WATER PRESSURE TANK WITH A THROUGH-ANTIFROST MODEL WX-1200L

HANDICAPPED STALLS SHALL HAVE 2 GRAB BARS EACH AND DOOR SHALL BE 2'-8" WIDE

REMOVE EXISTING TOWEL DISPOSAL UNITS AND FILL IN RECESS. INSTALL NEW CERAMIC TILE OVER PATCHED AREA TO MATCH ADJACENT TILE.

REPLACE LAVATORIES INCLUDING SUPPLY AND WASTE TRIM & CHAIR CARRIERS AS REQUIRED

2 NEW ELECTRIC HAND DRIERS

REMOVE & REPLACE METAL PARTITIONS

INSTALL INTERNATIONAL HANDICAPPED SYMBOL ON MEN & WOMENS TOILET ROOM DOORS

REMOVE ALL EXIST. TOILET PARTITIONS & URINAL SCREEN. REPLACE WITH FLOOR SUPPORTED COMPARTMENTS WITH HEAD-RAIL & FLOOR TO CEILING SUPPORTED URINAL SCREENS. UNITS TO BE FABRICATED OF STAINLESS STEEL. ACCEPTABLE MFGRS INCLUDE: BANYN METAL GENERAL PARTITIONS WEIS

SEE SHEET (8) FOR CONTINUATION OF SIDEWALK PAVING

## FLOOR PLAN

SCALE 1/4" = 1'-0"

REMOVE EXISTING 5 KN CEILING MOUNTED HEATING UNIT TO BE REMOVED AND REPLACED WITH COMPARABLE UNIT, EXCEPT THAT THERMOSTAT TO BE INTEGRAL WITH HEATING UNIT.

PROVIDE 2 TON TONKLE TYPE MOTOR SHORTER - WESTINGHOUSE MOTOR ON EQUAL FOR HYDROCLONATOR. MOTOR, SIZE OVERLOAD HEATED FOR MOTOR W/REPLACE CURRENT.

CONNECT HYDROCLONATOR PANEL

RELOCATE EXISTING THERMOSTATS FROM WALL TO CEILING EXISTING BASEBOARD HEATER COVER.

DISCONNECT & REMOVE CIRCUIT 5/6 FROM TOILET ROOMS TO PANEL "L". RULL NEW CIRCUITS 5/6 48 IN EXISTING CONDUITS AS SHOWN. RECONNECT CIRCUIT 5 TO MEN'S TOILET LIGHTS, CIRCUIT 6 TO WOMENS TOILET LIGHTS AND CIRCUIT 8 TO THE RECEPTACLE IN EACH TOILET ROOM. ROUTE CIRCUIT 8 THRU GFCI RECEPTACLE ADJACENT TO PANEL "L".

REMOVE EXISTING SANITAND TOILET & REIN. AGE WITH STANDARD TOILET. ROOM IN PLUMBING FOR VENT AND WASTE TO BE MODIFIED FOR INSTALLATION OF NEW PICTURE. REPLACE THERMOSTAT FROM LOBBY TO RETURN AIR PLENUM IN MECHANICAL ROOM MUST BE MINNEAPOLIS, HONEYWELL OR EQUAL.

REMOVE EXISTING RECEPTACLE & PLATE - FURNISH & INSTALL NEW FEED-THRU GFCI RECEPTACLE & PLATE. WIRE TO PROTECT DOWNSTREAM RECEPTACLE.

REMOVE & REPLACE THREE LAVATORIES INCLUDING SUPPLY AND WASTE TRIM & CHAIR CARRIERS AS REQUIRED. LAVATORIES TO BE SALVAGED IN WOMENS ROOM AND RETURNED TO OWNER.

ADD NEW BASEBOARD HEATERS W/ SHIELDS AND THERMOSTAT. SEE SHEET NO 38 FOR HEAT SHIELD DETAILS

INSTALL NEW THRESHOLD

EXISTING WATER COOLER TO BE REPLACED WITH NEW FIXTURE TO MEET HANDICAPPED REQUIREMENTS. EXISTING WATER COOLER TO BE SALVAGED AND RETURNED TO OWNER.

RESCALE AS REQUIRED AROUND ALUMINUM KINDON SECTIONS

ADD NEW WEATHER STRIPPING AROUND ALL HINGED AND SLIDING DOORS (TYR)

EXISTING TELEPHONE BOOTH MEETS HANDICAPPED REQUIREMENTS

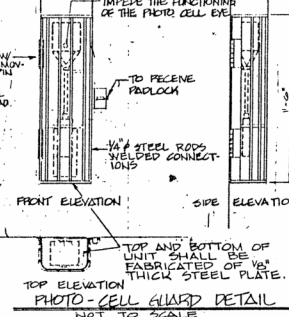
EXISTING EXPOSED AGGREGATE CONCRETE & BRICK WORK TO REMAIN

EXISTING BRICK & CONCRETE WALK TO BE REMOVED AND REPLACED WITH NEW CONCRETE WALK AT SAME FINISHED ELEVATIONS (SHADED AREA)

EXISTING WELL ACCESS COVER & FRAME TO REMAIN. INSTALL NEW CONCRETE FLUSH TO FRAME. PROVIDE PREFORMED ELASTOMERIC SEAL BETWEEN FRAME & NEW CONCRETE WORK.

WHERE NEW CONCRETE PAVING ADJUTS EXISTING PAVEMENT PROVIDE A PERFORMED ELASTOMERIC COMPRESSION JOINT SEAL (TYPICAL)

NOTE: NEW INFLECTION RAMP SHALL BE IN WAY WHERE THE POSITIONING OF THE PHOTO CELL EYE



TOP ELEVATION

PHOTO-CELL GUARD DETAIL

NOT TO SCALE

REPLACE BROKEN CERAMIC TILE & REPOINT GROUT WHERE NECESSARY

RESET EXISTING WATER CLOSET 20 ALL UNITS ARE 15" ABOVE FLOOR

## MEN'S TOILET ROOM

SCALE 1/4" = 1'-0"

### "TOILET ROOM ACCESSORIES"

FOR DETAILED DESCRIPTION SEE "TOILET ROOM ACCESSORIES" SPECIFICATIONS ON SHEET 2/13.

1. REMOVE 3 COMBINATION MIRROR AND SOAP/TOWEL DISPENSER.
2. INSTALL 2 HANDICAPPED MIRRORS & 3 OTHER MIRRORS.
3. INSTALL 2 COMPLETE LIQUID SOAP SYSTEMS.
4. INSTALL 4 ELECTRIC HAND DRIERS.
5. REMOVE EXISTING AND INSTALL 2 NEW PAIR OF HANDICAPPED GRAB BARS.
6. INSTALL 2 FEMININE NAPKIN DISPOSALS.
7. INSTALL 7 DOUBLE ROLL TOILET TISSUE HOLDERS. W/ ONE-WAY SCREENS
8. REMOVE 2 WASTE TOWEL DISPOSALS.

WHEELCHAIR LAVATORY AMERICAN STANDARD 9140 DIB. INSULATE EXPOSED SUPPLY AND DRAIN LINES

REMOVE EXISTING COMBINATION MIRROR UNITS. FILL IN RECESS & PATCH DAMAGED AREA WITH TILE TO MATCH ADJACENT WALL. INSTALL TILT MIRROR OVER HANDICAPPED LAVATORY & INSTALL NEW MIRROR & SOAP DISPENSER VALVES OVER EACH LAVATORY TO RIGHT OR LEFT OF FAUCETS.

EXISTING WATER COOLER TO BE REMOVED AND REPLACED WITH HANDICAPPED WATER COOLER

REMOVE EXISTING LAVATORIES & REPLACE WITH 3 STANDARD 10" HANDICAPPED LAVATORIES. REPLACE SUPPLY & WASTE TRIM. EXISTING LAVATORIES SHALL BE SALVAGED & TURNED OVER TO OWNER

RESET WATER CLOSET 20 ALL UNITS ARE 15" ABOVE FLOOR

REMOVE EXISTING PARTITIONS AND INSTALL NEW STAINLESS STEEL TOILET PARTITIONS.

## WOMEN'S TOILET ROOM

SCALE 1/4" = 1'-0"



ORIGINAL SURVEY		BY		DATE	
SURVED	( )	NAME	NO.		
PLANTED	( )	NO.	DATE		
TOTALS ARE	( )	NO.	DATE		
AREAS	( )	NO.	DATE		
HO	( )	NO.	DATE		

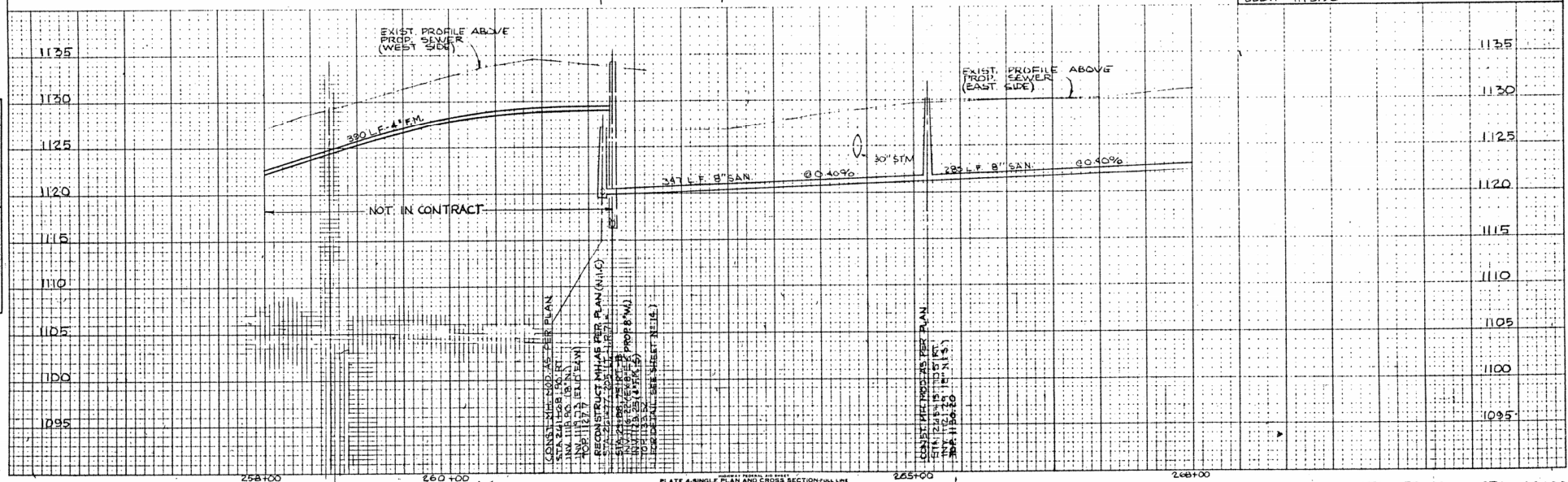
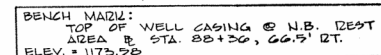
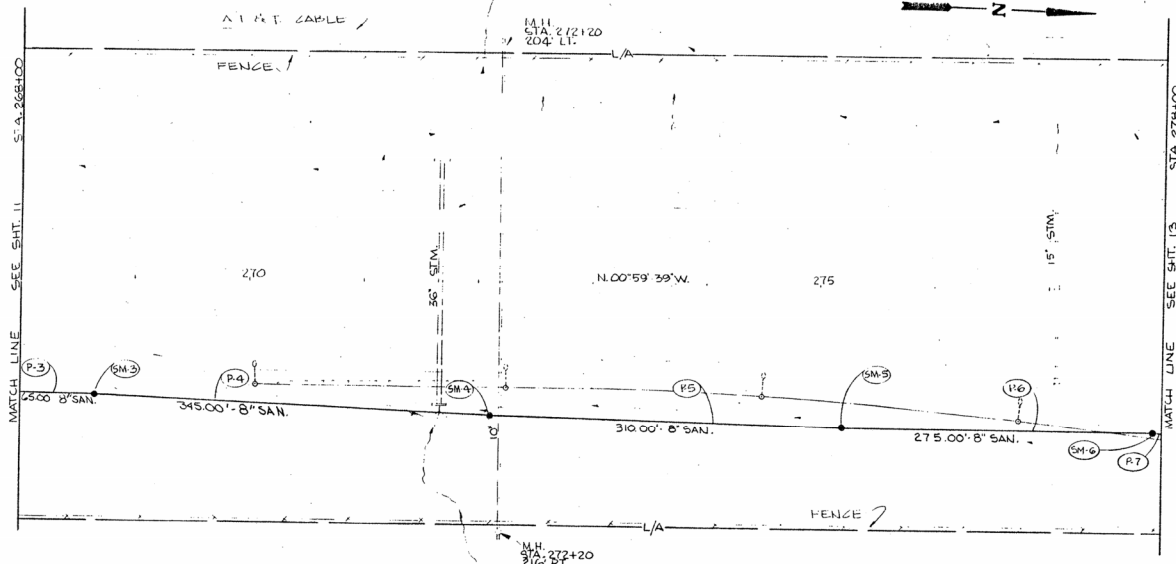


PLATE 4-SINGLE PLAN AND CROSS SECTION-FULL LINE  
BY TELETYPE  
PRINTED IN U. S. A.

I-71 STA. 258+00 to STA 268+00

FINAL SURVEY  
 DATE: 12/12/12  
 BY: MFB  
 CHECKED BY: JRO  
 PROJECT: MED-71-2250 (N.B.)  
 SHEET: 12 OF 13

ORIGINAL SURVEY  
 DATE: 12/12/12  
 BY: MFB  
 CHECKED BY: JRO  
 PROJECT: MED-71-2250 (N.B.)  
 SHEET: 12 OF 13



CALC. BY: MFB  
 CHKD. BY: JRO

DATE: 12/12/12

FED. RD. DIVISION: 5  
 STATE: OHIO  
 PROJECT: MED-71-2250

MEDINA COUNTY  
 MED-71-2250 (N.B.)  
 IR-71-4(6)224 PART II

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MARK	SIDE	STATION		603	603
		FROM	TO	MANHOLE MOD AS PER PLAN	8" SAN. SEWER AS PER PLAN
P.3	RT	268+00	268+65	EACH	LIN. FT.
SM.3	RT	268+65	268+65	1	65
P.4	RT	268+65	272+10	1	345
SM.4	RT	272+10	272+10	1	345
P.5	RT	272+10	275+20	1	310
SM.5	RT	275+20	275+20	1	310
P.6	RT	275+20	277+95	1	275
SM.6	RT	277+95	277+95	1	275
P.7	RT	277+95	278+00	1	5
TOTALS				4	1000

BENCH MARK:  
 TOP OF WELL CASING @ N.B. REST  
 AREA @ STA. 268+36, 66.5' DT.  
 ELEV. = 1173.93

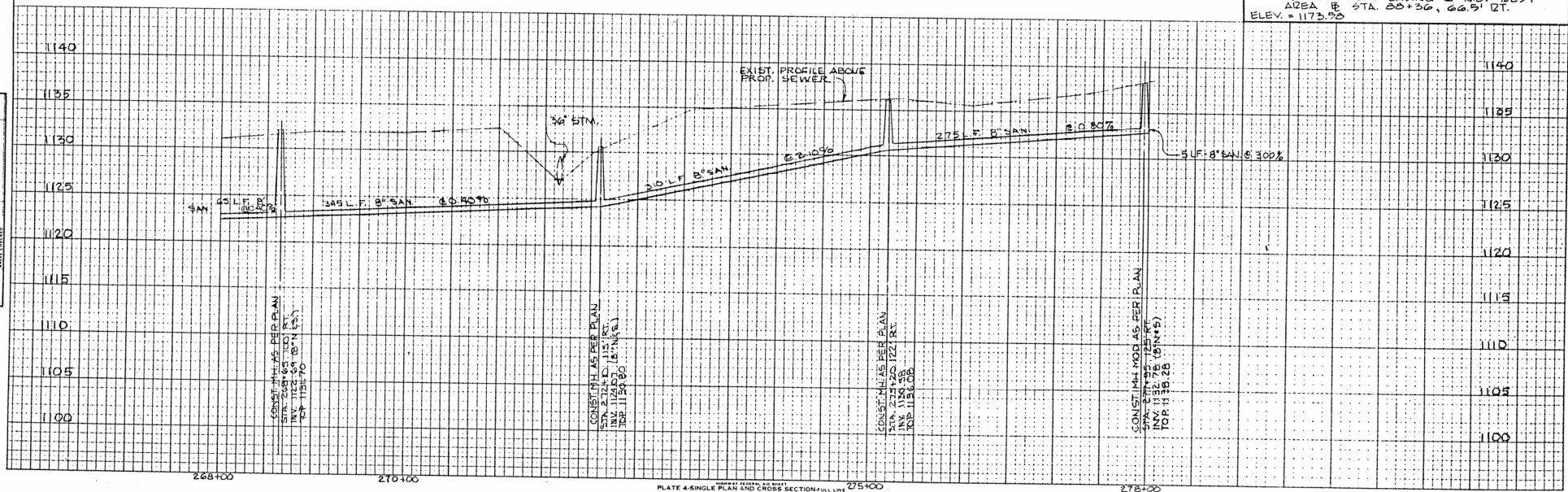
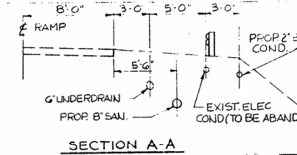
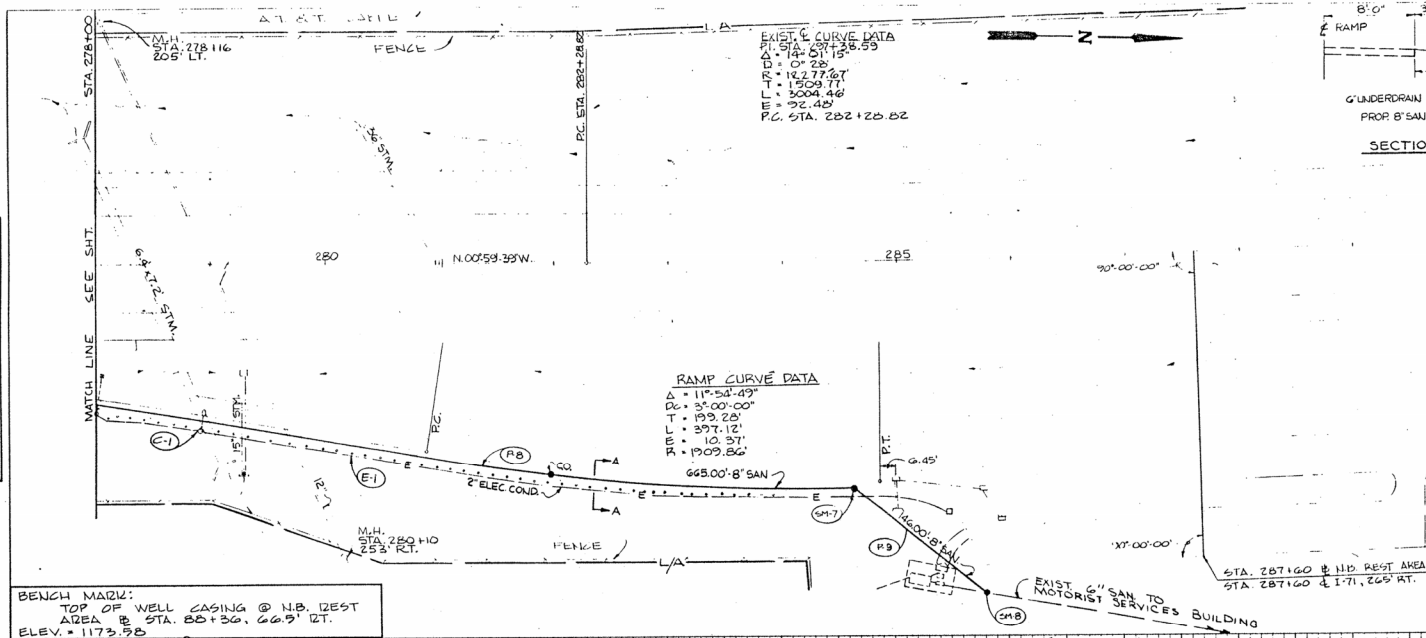


PLATE 4-SINGLE PLAN AND CROSS SECTION FULL LINE

NO.	DATE	BY	CHKD.
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			

NO.	DATE	BY	CHKD.
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			



FED. RD. DIVISION	STATE	PROJECT	
5	OHIO	MED-71-22.50	13 13

MEDINA COUNTY  
MED-71-22.50 (N.B.)  
IR-71-4(61)224 PART II

CALC. BY	DATE
MAJ	10/84
CHKD BY	DATE
TRD	10/84

OF 2

EDGE OF PAVT. 2

NAIL IN DISK 1" FROM PAVT.

STA. 2+71.29.40 R.H.

STA. 2+82.29.88 L.H.

TIES FOR PC:

STA. 2+71.29.40 R.H.

STA. 2+82.29.88 L.H.

OF 2

EDGE OF PAVT. 2

NAIL IN DISK 1" FROM PAVT.

STA. 2+71.29.40 R.H.

STA. 2+82.29.88 L.H.

TIES FOR PC:

STA. 2+71.29.40 R.H.

STA. 2+82.29.88 L.H.

QUANTITIES									
MARK	SIDE	STATION		603	604	625	625		
		FROM	TO	B SAN SEWER AS PER PLAN	MANHOLE AS PER PLAN	2 DUCT CABLE 600 VOLT INSUL NG	TRENCH 24" DEEP	CABLE SPlicing KIT	
				LIN FT	EXCH	LIN FT	LIN FT	EA	EA
E-1	RT	278+00	285+40			740	740		1
C-1	RT	281+25							
A-B	RT	278+60	284+65	665.1					
S-7	RT	284+65			1				
P-B	RT	284+65		146					
S-B	RT	285+61			1				
TOTALS				811	2	740	740		1

\* COST OF PIPE TO INCLUDE PRICE OF 8\"/>

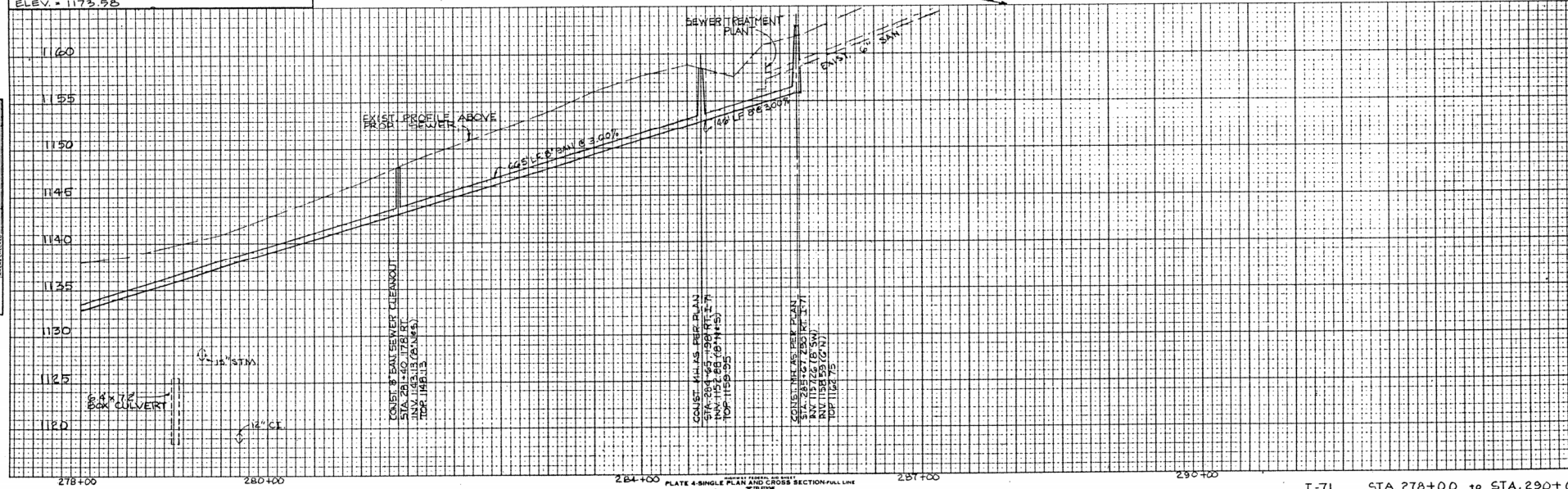
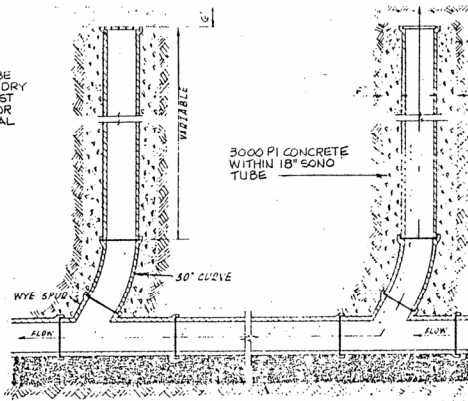


PLATE 4-SINGLE PLAN AND CROSS SECTION-FULL LINE  
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I-71 STA 278+00 to STA 290+00

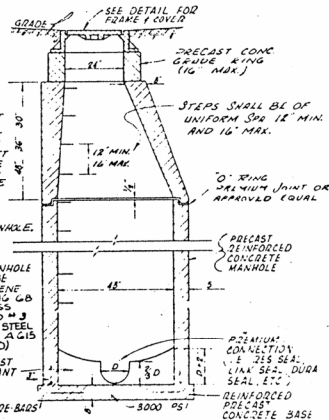


COVER SHALL BE  
NEENAH FOUNDRY  
R-4055 OR EAST  
JORDAN G300 OR  
APPROVED EQUAL



CLEANOUT

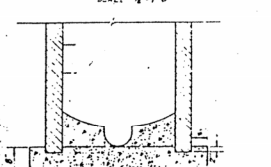
NOTE MANHOLE  
STEPS SHALL BE  
SAFELY SLOPED  
TO THE STREET  
OR THE LARGEST  
SECTION OF THE  
SANITARY SEWER  
THAT IS AN INLET  
OR OUTLET PIPE  
INTERFERENCE  
TWO STEPS SHOULD  
BE PLACED IN THE  
BEST LOCATION  
TO FACILITATE  
ENTRANCE OR  
EXIT TO THE MANHOLE.



STANDARD SANITARY MANHOLE

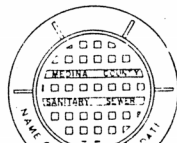
NOTE 4 FOOT DIA. SECTIONS MUST CONNECT  
INTO MANHOLE

ALTERNATE MANHOLE BASE

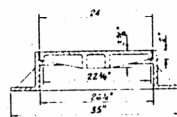


NOTE IF BOTTOM SECTION AND MANHOLE BASE ARE NOT  
HORIZONTALLY ROUNDED AND TIED WITH #5  
RE-BARS, THIS BASE IS REQUIRED.

MANHOLE COVER & FRAME



MANHOLE FRAME SHALL BE  
NEENAH FOUNDRY R-101 N-1780 3000 PSI COVER 30 1/2"  
JORDAN 1000 G3000 F-101  
WITH TYPE A COVER  
OR APPROVED EQUAL



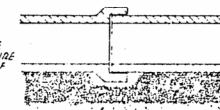
BELL HOLES TO BE  
ELEVATED AT LEAST  
1/2" ABOVE THE  
PROPOSED BEDDING  
OF PIPE

TYPICAL TRENCH SECTION

PIPE SIZE MAX TRENCH	PIPE SIZE MAX TRENCH
8" 11'-0"	8" 11'-0"
10" 12'-0"	10" 12'-0"
12" 14'-0"	12" 14'-0"
14" 16'-0"	14" 16'-0"
16" 18'-0"	16" 18'-0"
18" 20'-0"	18" 20'-0"
20" 22'-0"	20" 22'-0"
24" 26'-0"	24" 26'-0"
30" 32'-0"	30" 32'-0"
36" 38'-0"	36" 38'-0"
42" 44'-0"	42" 44'-0"
48" 50'-0"	48" 50'-0"
54" 56'-0"	54" 56'-0"

THIS STANDARD IS FOR VITRIFIED PIPE SANITARY SEWERS  
IN NON-PAVED AREAS ONLY. SEE GENERAL NOTES  
FOR ABS & P.V.C. TRENCH CONDITIONS.

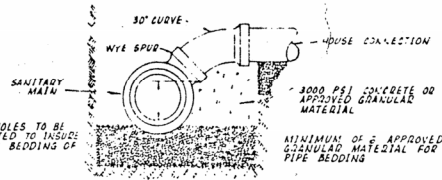
BELL HOLES



BELL HOLES TO BE  
ELEVATED TO INSURE  
PROPER BEDDING OF  
PIPE

MINIMUM OF 6" APPROVED  
GRANULAR MATERIAL FOR  
PIPE BEDDING

WYE DETAIL

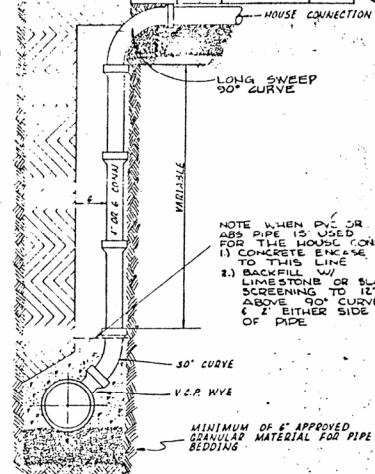


BELL HOLES TO BE  
ELEVATED TO INSURE  
PROPER BEDDING OF  
PIPE

MINIMUM OF 6" APPROVED  
GRANULAR MATERIAL FOR  
PIPE BEDDING

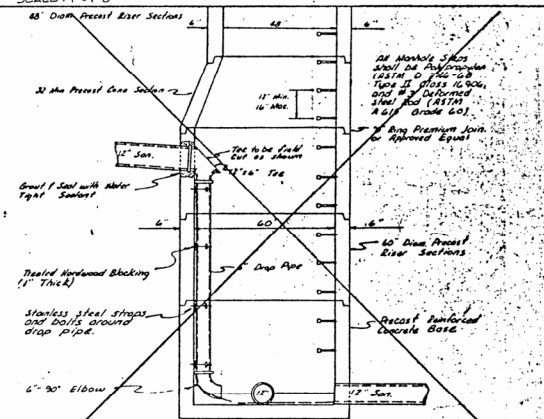
MEDINA COUNTY  
MED-71-22.50 N.B.  
IR-71-4(6) 224 PART II

BACKFILL AND COMPACT  
SOIL IN 6" LAYERS TO A  
HEIGHT OF 12" ABOVE  
NO. 4 CURVE



NOTE WHEN P.V.C. OR  
ABS PIPE IS USED FOR  
THE HOUSE CONNECTION  
1) CONCRETE ENCASE  
TO THIS LINE  
2) BACKFILL WITH  
LIMESTONE OR SLAG  
SCREENING TO 12"  
ABOVE 90° CURVE  
& 2' EITHER SIDE  
OF PIPE

TYPICAL RISER



DELETE

INSIDE SANITARY DROP MANHOLE  
(Scale: 1"=1'-0")

MEDINA COUNTY SANITARY ENGINEERS  
STANDARD DETAIL SHEET

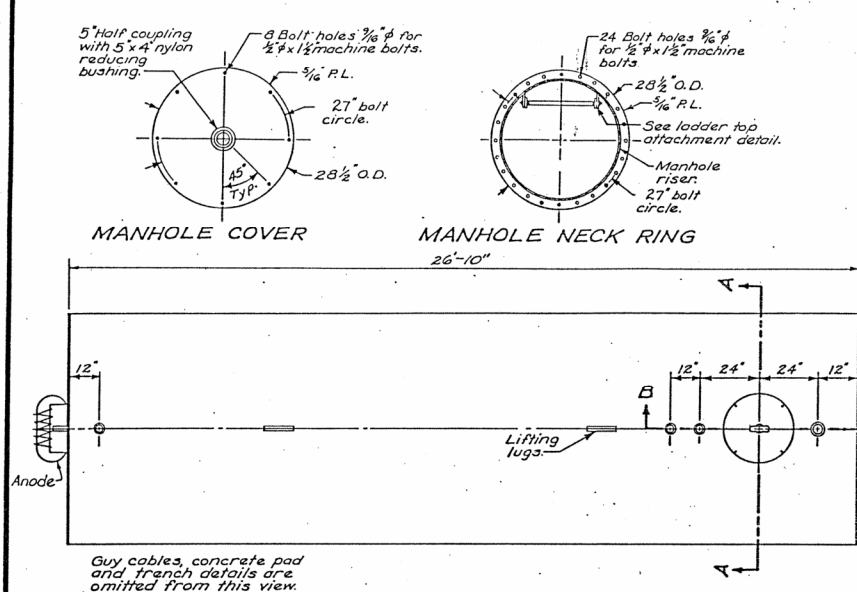
SANITARY SEWER DETAILS

SCALES AS SHOWN MARCH 1991  
PROJECT NO. SHEET NO.

SANITARY SEWER DETAILS

M.C.S.E. STANDARD DETAILS (Sanitary Sewers)

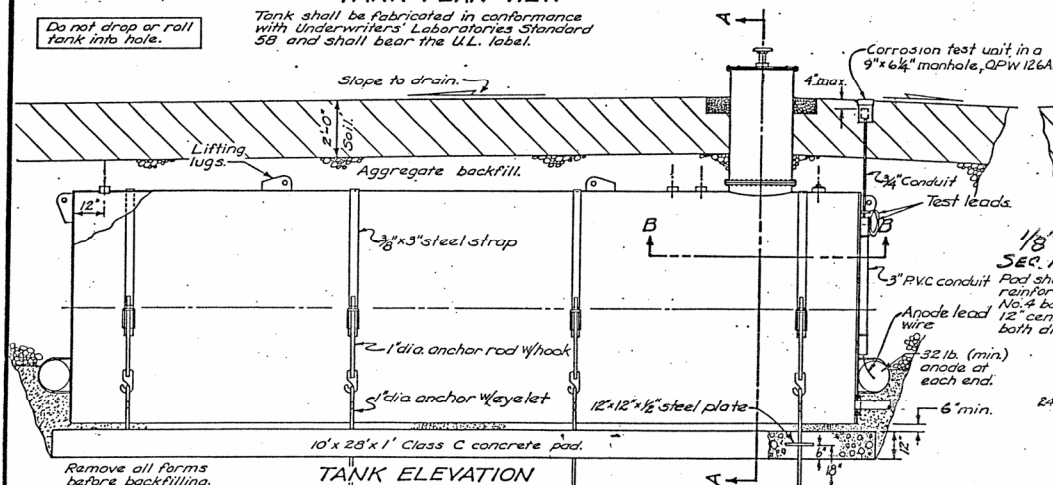




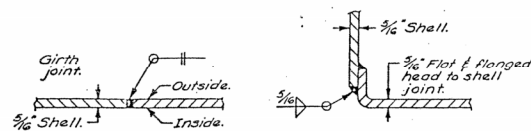
TANK PLAN VIEW

*Do not drop or roll tank into hole.*

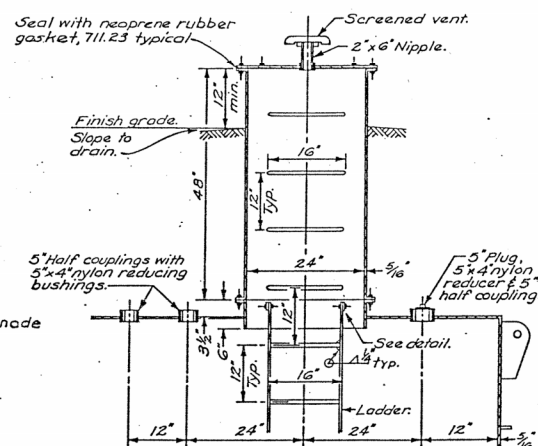
*Tank shall be fabricated in conformance with Underwriters' Laboratories Standard 58 and shall bear the U.L. label.*



### TANK ELEVATION



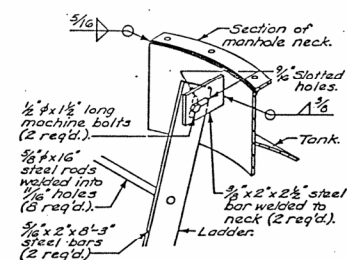
### HORIZONTAL OR VERTICAL TANK WELDS



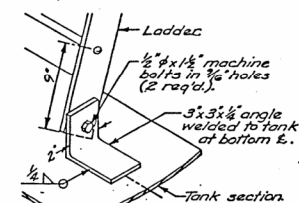
*PARTIAL SECTION B-B*  
(Along tank E)



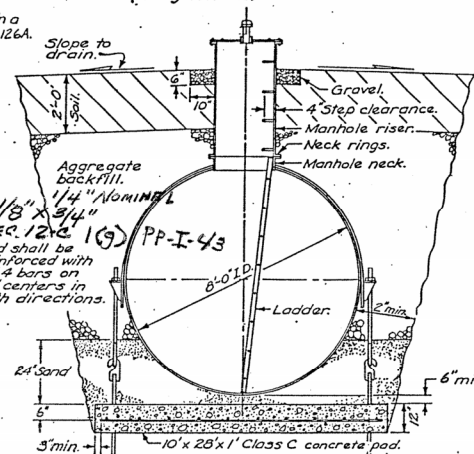
HALF COUPLING WELD



LADDER TOP  
ATTACHMENT

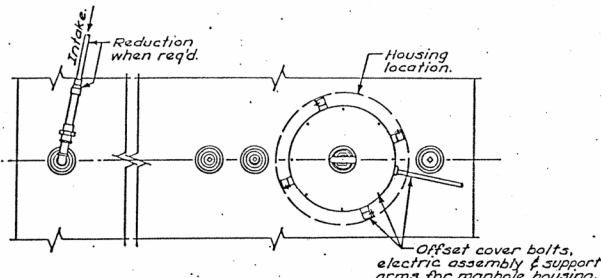


LADDER BASE  
ATTACHMENT



SECTION A-A

BUREAU OF DESIGN SERVICES DIVISION OF HIGHWAYS		DATE 9/2/82
OHIO DEPARTMENT OF TRANSPORTATION		
WATER RESERVOIR TANK (MODIFIED)		
RRA-9		
APPROVED <i>E. J. Smith</i> Engr. of Design Services		

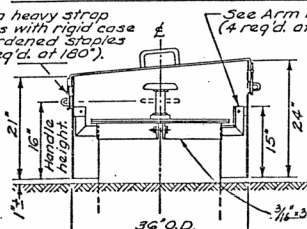


PLUMBING AND ELECTRIC - PLAN

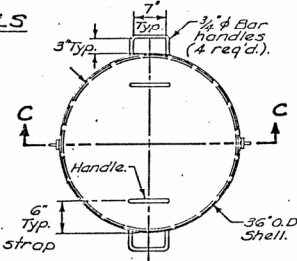
MANHOLE HOUSING DETAILS

Extra heavy strap hasps with rigid case & hardened stop/s (2 req'd. at 180°).

See Arm Detail (4 req'd. at 90°).



SECTION C-C



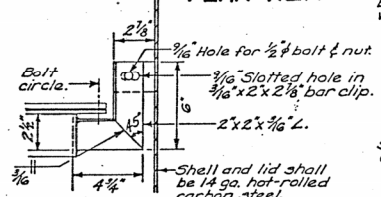
PLAN VIEW

WELDS: Arms, bar clips, handles, hasps and stop/s shall be filler welded all around.

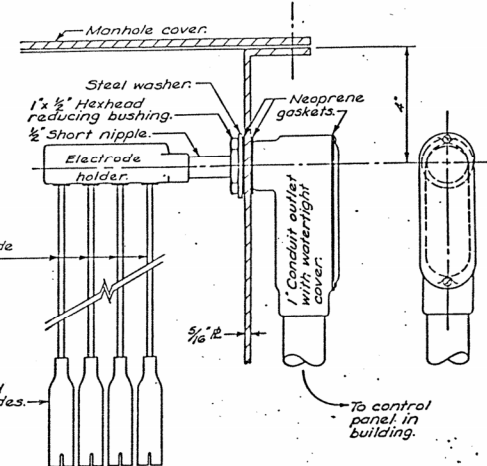
Shell and lid shall be coated inside and outside with red oxide primer (700.19) and green finish point (700.09).

Arms shall be covered by the same outside coating required on the tank, manhole and manhole cover.

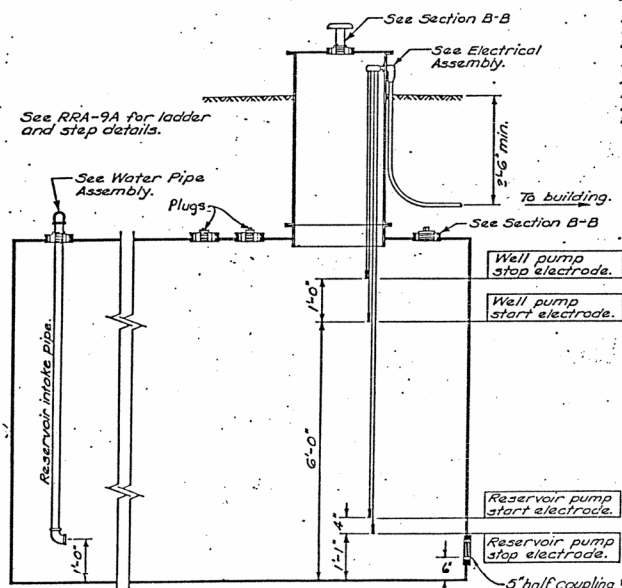
Two padlocks equal to Master No. 48KA or Wilson Bahannon 660 and meeting the corrosion and keying requirements of 631.03 shall be furnished with each housing.



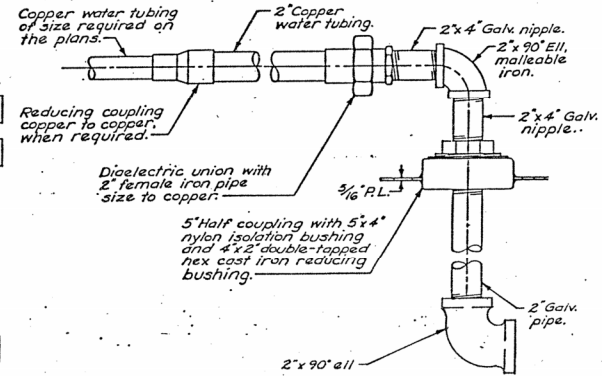
ARM DETAIL



ELECTRICAL ASSEMBLY



PLUMBING AND ELECTRIC - SECTION



WATER PIPE ASSEMBLY

BUREAU OF DESIGN SERVICES DIVISION OF HIGHWAYS OHIO DEPARTMENT OF TRANSPORTATION	
DATE 9/2/82	
WATER RESERVOIR TANK (MODIFIED)	
RRA-9A	
APPROVED <i>E. L. Schaefer</i> Engr. of Design Services	

STATE OF OHIO  
DEPARTMENT OF TRANSPORTATION  
**MED-71-22.50**  
SAFETY REST AREA REHABILITATION  
MEDINA COUNTY  
BRUNSWICK TOWNSHIP

MEDINA COUNTY MED-71-22.50 NB. REST AREA	OHIO FHWA REGION 5	1 13
IR-71-4(6)224	FEDERAL PROJECT	

IR-71-4(6)224 PART II  
FOR PART I, SEE MED-71-22.14

LIMITED ACCESS

This improvement is especially designed for through traffic and has been declared a limited access highway or freeway by action of the Director of Transportation in accordance with the provisions of Section 5511.02 of the Revised Code of Ohio.

1983 SPECIFICATIONS

The standard specifications of the State of Ohio, Department of Transportation, including changes and supplemental specifications listed in the proposal shall govern this improvement.

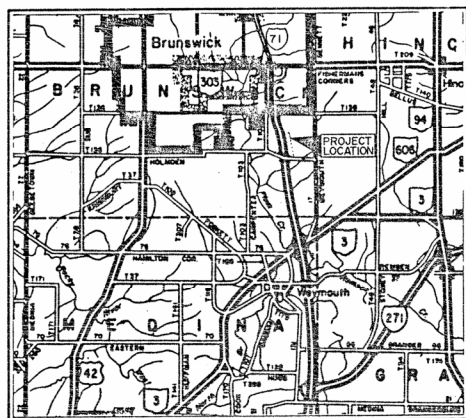
I hereby approve these plans and declare that the making of this improvement will not require the closing of the highway except the affected rest areas, and that provisions for maintenance and safety of traffic will be set forth in these plans and estimate.

CONVENTIONAL SIGNS

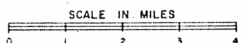
County Line	Limited Access (only)	LA
Township Line	Right of Way (only)	RW
Section Line	Limited Access & Right of Way	LA & RW
Corporation Line	Existing Right of Way	
Fence Line (existing)	Property Line (in existing fence)	
Center Line	Railroad	
Trees, Stumps, (to be removed)	Guardrail (existing)	
Utility Poles: Telephone, Power, Light		

INDEX OF SHEETS

TITLE SHEET	1
GENERAL NOTES	2, 3, 3A, 3B, 4
MAINTENANCE OF TRAFFIC	5, 5A
GENERAL SUMMARY	6-7
SITE PLAN	8
BUILDING INTERIOR PLAN & ELECTRICAL DETAILS	9
WATER SYSTEM IMPROVEMENTS	10
SANITARY SEWER PLAN/PROFILE	11-13
OTHER DETAIL DRAWINGS	13A, 13B, 13C



LOCATION MAP

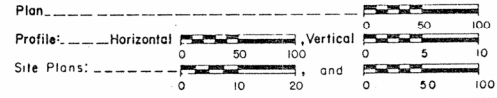


LINE DATA

NET LENGTH OF PROJECT = 0.00 LIN. FT. OR 0.000 MILE  
BEGIN WORK STA. 261+68  
END WORK STA. 289+70  
TOTAL NET LENGTH OF WORK = 2802 LIN. FT. OR 0.531 MILE

Portion to be improved: \_\_\_\_\_  
State & Federal Routes: \_\_\_\_\_  
Other Roads: \_\_\_\_\_

SCALES



SUPPLEMENTAL SPECIFICATIONS SEE PART I
---

	SUPPLEMENTAL PRINTS OF STANDARD CONSTRUCTION DRAWINGS				
	SEE PART I				

Plan Prepared By:  
JOHN DAVID JONES & ASSOCIATES, INC.  
2162 FRONT STREET  
CUYAHOGA FALLS, OHIO 44122

Approved: \_\_\_\_\_  
Date: 10/22/81 District Deputy Director of Transportation

Approved: \_\_\_\_\_  
Date: 2/7/82 Engineer of Design Services

Approved: \_\_\_\_\_  
Date: 2-25-82 Chief Engineer, Planning and Design

Approved: \_\_\_\_\_  
Date: 2-25-82 Director, Department of Transportation

DEPARTMENT OF TRANSPORTATION  
FEDERAL HIGHWAY ADMINISTRATION

APPROVED:

DIVISION ADMINISTRATOR DATE

Project: \_\_\_\_\_  
Date of Letting: \_\_\_\_\_, 19\_\_\_\_, Contract No. \_\_\_\_\_  
LD0300 Rev. 11-1-78

## GENERAL

### GENERAL RULES

**BENCH MARK & BASE LINE**  
A BENCH MARK AND BASE LINE WILL BE VERIFIED BY D.O.D.I. PERSONNEL.

**FIELD OFFICE (PART I & PART II)**  
THE GENERAL CONTRACTOR SHALL PROVIDE A SUITABLE FIELD OFFICE HAVING A MINIMUM OF 400 SQUARE FEET OF FLOOR SPACE. PAYMENT SHALL BE AT THE LUMP SUM PRICE BID FOR ITEM 619 FIELD OFFICE.

**CLOSURE OF REST AREA TO PUBLIC**  
THE REST AREA WILL BE CLOSED TO THE TRAVELING PUBLIC FOR THE TIME OF CONSTRUCTION.

**STORAGE OF MATERIALS & EQUIPMENT**  
ALL MATERIAL, EQUIPMENT AND VEHICLES SHALL TYPICALLY BE STORED WITHIN THE CONFINES OF THE REST AREA PARKING LOTS (BUT AT NO TIME CLOSER THAN 30 FEET FROM THRU LANES) AT THE DIRECTION OF THE ENGINEER.

SEWAGE TREATMENT PLANT REMOVAL ACTIVITIES SHALL BE CONFINED WITHIN THE R/W AND/OR CONSTRUCTION EASEMENT LIMITS. THE CONTRACTOR MAY AT HIS OWN RISK AND COST RENT PRIVATE PROPERTY FOR THIS USE.

**UNDERGROUND UTILITIES**  
THE LOCATIONS OF THE UNDERGROUND UTILITIES SHOWN ON THE PLANS ARE AS OBTAINED FROM THE OWNERS OF THE UTILITY AS REQUIRED BY SECTION 153.64 ORC.

### UTILITIES NOTIFICATION

AT LEAST TWO WORKING DAYS PRIOR TO COMMENCING CONSTRUCTION OPERATIONS IN AN AREA WHICH MAY INVOLVE UNDERGROUND UTILITY FACILITIES, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER, THE REGISTERED UNDERGROUND UTILITY PROTECTION SERVICES AT 800-362-2764, AND THE OWNERS OF ALL UNDERGROUND UTILITY FACILITIES SHOWN IN THE PLANS.

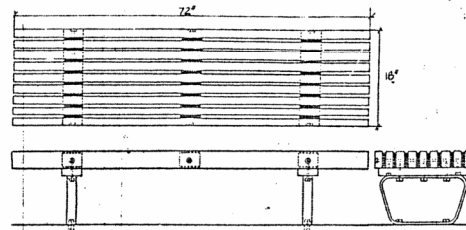
THE OWNER OF THE UNDERGROUND UTILITY FACILITY SHALL, WITHIN FORTY EIGHT HOURS, EXCLUDING SATURDAYS, SUNDAYS AND LEGAL HOLIDAYS, AFTER NOTICE IS RECEIVED, STAKE, MARK OR OTHERWISE DESIGNATE THE LOCATION OF THE UNDERGROUND UTILITY FACILITIES IN THE CONSTRUCTION AREA IN SUCH A MANNER AS TO INDICATE THEIR COURSE TOGETHER WITH THE APPROXIMATE DEPTH AT WHICH THEY WERE INSTALLED. THE MARKING OR LOCATING SHALL BE COORDINATED TO STAY APPROXIMATELY TWO DAYS AHEAD OF THE PLANNED CONSTRUCTION.

THE FOLLOWING UTILITIES WILL BE AFFECTED BY THIS PROJECT:

OHIO DEPARTMENT OF TRANSPORTATION DISTRICT 3 906 N. CLARK STREET ASHLAND, OHIO 44805 ATTN: DAVE MOLLENKAMP	(419) 324-1511
AMERICAN TELEPHONE AND TELEGRAPH 3833 WYOMOUTH ROAD MEDINA, OHIO 44256	(216) 725-4552
GENERAL TELEPHONE COMPANY OF OHIO 6223 NORWALK ROAD MEDINA, OHIO 44256	(216) 722-9580
OHIO/EDISON COMPANY 117 PUBLIC SQUARE MEDINA, OHIO 44256	(216) 723-3671
MEDINA COUNTY SANITARY ENGINEERING DEPT. 791 W. SMITH ROAD - P.O. BOX 542 MEDINA, OHIO 44256	(216) 225-3113

### 7" PLAIN PORTLAND CEMENT PAVEMENT, AS PER PLAN

SUBGRADE UNDER SERVICE DRIVES AND CURB RAMPS SHALL BE COMPACTED TO A DEPTH OF SIX (6) INCHES AS DESCRIBED IN 203.13. JOINTS SHALL BE PLACED AT MAXIMUM 10 FOOT INTERVALS AND CONSTRUCTED IN ACCORDANCE WITH STANDARD DRAWING BP-6. THE COST OF JOINTS, GRADING, EXCAVATION AND COMPACTION SHALL BE INCLUDED IN ITEM 452 - 7" PLAIN PORTLAND CEMENT PAVEMENT, AS PER PLAN.



WOOD BENCH - TYPICAL DETAIL

### ITEM SPECIAL - WOOD BENCH

THIS ITEM SHALL CONSIST OF FURNISHING AND INSTALLING WOOD BENCHES AS SHOWN ON THE PLANS. BENCHES SHALL BE MADE OF CLEAR HEARTWOOD REDWOOD, APPROXIMATELY 72" LONG BY 18" WIDE, SEAT PLANKS SET ON EDGE, SURFACE KEENED WITH GALVANIZED VANDALPROOF FASTENERS AS PER MANUFACTURER'S RECOMMENDATIONS AND APPROVAL OF THE ENGINEER. BENCHES SHALL BE AS MANUFACTURED BY THE FOLLOWING COMPANIES OR APPROVED EQUAL:

"MACOTTA" MB 7220  
"VAUGHAN & ASSOC." P17003R  
"TIMBERFORM" 2160-6

THE COST OF ALL OF THE ABOVE SHALL BE INCLUDED IN THE PRICE BID FOR EACH ITEM SPECIAL - WOOD BENCH.

### ITEM SPECIAL - CONCRETE SLABS

DETAIL PLACEMENT OF PICNIC TABLES, PICNIC TABLE SLABS, GRILL SLABS, SHELTER HOUSE AND WASTE RECEPTACLE SLEEVES SHALL BE AS DIRECTED BY THE ENGINEER IN CONSULTATION WITH THE DISTRICT LANDSCAPE ARCHITECT OR HORTICULTURIST. COST FOR EACH ITEM AND SLAB SHALL BE INCLUDED IN EACH ITEM SPECIAL AS DESCRIBED AND DETAILED ON SHEET B.

### REMOVAL OF FOUNDATIONS AND SLABS

THIS WORK SHALL CONSIST OF THE REMOVAL OF FOUNDATIONS, CONCRETE SLABS AND WALKS IN CONFORMANCE WITH THE PROVISIONS OF ITEM 202.

THE GENERAL CONTRACTOR SHALL REMOVE: ONE (1) CONCRETE SERVICE DRIVE, ONE (1) PICNIC TABLE SLAB AS WELL AS MISCELLANEOUS WALKS AND CURBS.

### TREE PROTECTION

NO WORK WILL BE PERMITTED WHERE TREES, SHRUBS, OR UTILITIES ARE PRESENT WITHIN THE WORK LIMITS OF THE REST AREA PROJECT PRIOR TO STAKING BY THE GENERAL CONTRACTOR OF THE LIMITS OF PROPOSED SHELTER HOUSE, SEWER LINES, SIDEWALKS, GRADING WORK AND EXISTING AND PROPOSED UTILITY LINES.

THE METHOD FOR MARKING TREES AND SHRUBS TO BE SALVAGED, PROTECTED OR REMOVED WILL BE ESTABLISHED BY THE ENGINEER, DISTRICT LANDSCAPE ARCHITECT OR HORTICULTURIST AND THE GENERAL CONTRACTOR PRIOR TO WORK AROUND ANY EXISTING TREES, SHRUBS AND UTILITY LINES.

TREE AND ROOT PROTECTION USING SNOW FENCE SHALL BE PROVIDED BY THE GENERAL CONTRACTOR AS INDICATED ON THE PLAN AND AS DIRECTED BY THE ENGINEER. TREE ROOT AREAS EQUAL TO THE BRANCH SPREAD SHALL BE PROTECTED AS PER STANDARD DRAWING LA-1.

ONLY PNEUMATIC TIRE EQUIPMENT SHALL BE USED WITHIN THE REST AREAS OUTSIDE THE PARKING LOTS UNLESS SPECIFICALLY PERMITTED BY THE PROJECT ENGINEER. CARE SHALL BE TAKEN BY THE VARIOUS CONTRACTORS NOT TO OPERATE EQUIPMENT OR OTHER VEHICLES WHEN THE GROUND IS WET OR SOFT IN ORDER TO AVOID DEEP RUTTING, SOIL COMPACTION AND OTHER DESTRUCTION OF TREE ROOT SYSTEMS.

## NOTES

TREES TO BE SALVAGED THAT ARE DAMAGED AT ANY TIME DURING THE CONTRACT SHALL BE REPAIRED OR REPLACED (AT THE CONTRACTORS EXPENSE) AS DETERMINED BY THE ENGINEER AFTER CONSULTATION WITH THE DISTRICT LANDSCAPE ARCHITECT OR HORTICULTURIST. DAMAGED TREES THAT CAN BE REPAIRED SHALL BE PRUNED. REPLACEMENT SHALL BE, IN QUANTITY AND QUALITY, SUFFICIENT TO COMPENSATE FOR SIZES OF TREES LOST. THE WORK SHALL BE COMPLETED AS PER 665 WITH TREES OF THE SIZE AND VARIETY, AS DIRECTED BY THE ENGINEER IN CONSULTATION WITH THE DISTRICT LANDSCAPE ARCHITECT OR HORTICULTURIST.

### ITEM SPECIAL - SNOW FENCE - TREE PROTECTION

SNOW FENCE SHALL CONSIST OF WOOD PICKETS 1/2" X 1-1/3" X 4'-0" NOMINAL SIZE, PAINTED RED AND WOVEN WITH FIVE (5) DOUBLE STRANDS OF 12 GAUGE STEEL WIRE, SPACED APPROXIMATELY 2" APART. THE FENCE SHALL BE SUPPORTED BY STEEL OR WOOD POSTS OF ADEQUATE SIZE AND SPACING. USED FENCE AND POSTS IN GOOD CONDITION MAY BE USED AS APPROVED BY THE ENGINEER.

PAYMENT WILL BE AT THE CONTRACT UNIT PRICE PER LINEAR FOOT OF SNOW FENCE. TREE PROTECTION, WHICH SHALL INCLUDE FURNISHING, ERECTION AND SUBSEQUENT REMOVAL.

### SODDING, AS PER PLAN

ALL NEW CONCRETE WALKS AND DRIVES WITHIN THE REST AREAS SHALL HAVE A BORDER OF SOD ON EACH SIDE. SOD SHALL BE LAID IN ACCORDANCE WITH ITEM 660 EXCEPT THAT IT SHALL BE KENTUCKY BLUEGRASS, WEO FREE, AND BE COMMERCIALLY CULTIVATED (NURSERY GROWN). \*Additional Areas of sodding will be as shown as per plan or as directed by the Engineer.

### REMOVAL OF EXISTING GRASS AREAS

AREAS WHICH ARE DAMAGED DUE TO STORAGE OR CONSTRUCTION OPERATIONS UNDER THIS CONTRACT ARE TO BE FILLED IN AND UNIFORMLY COVERED WITH ONE (1) INCH OF TOPSOIL (653.02).

FERTILIZER (12-12-12), 659.03, SHALL BE APPLIED AT THE RATE OF 15 POUNDS PER 1,000 SQUARE FEET AND WORKED INTO THE SOIL TO A DEPTH OF THREE (3) INCHES.

SEED SHALL BE THE URBAN MIXTURE AS SPECIFIED IN 659.08. MULCH SHALL BE AS SPECIFIED IN 659.09.

THE EXTENT OF AREAS TO BE RENOVATED SHALL BE AS DETERMINED BY THE ENGINEER. ALL AREAS TO BE RENOVATED, PLUS THE IMMEDIATE ADJACENT AREA, SHALL BE MOVED TO A HEIGHT OF TWO (2) INCHES BEFORE ACTUAL OPERATION OF SEEDING AND RENOVATING EXISTING SOIL IN ACCORDANCE WITH ITEM 655. ALL AREAS TO BE RENOVATED SHALL BE DONE BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE STATE.

### TRAFFIC MAINTENANCE

THE GENERAL CONTRACTOR SHALL PROVIDE ALL LABOR AND MATERIALS (SIGNS, BARRIERS, ETC.) FOR CONTROL OF TRAFFIC DURING CONSTRUCTION AS SHOWN ON SHEET NO. 5.

THE CONTRACTOR SHALL FURNISH, PLACE AND SUBSEQUENTLY REMOVE THE BARRIER AS WELL AS FURNISH, ERECT AND SUBSEQUENTLY REMOVE ALL SIGNS AND OTHER TRAFFIC CONTROL DEVICES NECESSARY TO CLOSE THE REST AREAS. ANY TEMPORARY REARRANGEMENT OR ALTERATION OF THE TRAFFIC CONTROL DEVICES THAT MAY BECOME NECESSARY FOR THE CONTRACTOR TO FACILITATE OPERATIONS SHALL BE DONE BY THE CONTRACTOR. HOWEVER, NO TRAFFIC CONTROL DEVICES SHALL BE REARRANGED OR ALTERED WITHOUT THE PRIOR APPROVAL OF THE ENGINEER. AT THE CONCLUSION OF THE TEMPORARY OPERATION, THE CONTRACTOR SHALL REPLACE THE TRAFFIC CONTROL DEVICES TO THEIR ORIGINAL POSITION AND CONDITION.

### ITEM 659 - MOWING, AS PER PLAN

MOWING OF THE AREA IN THE CONFINES OF THE R/W LIMITS OF THE REST AREA SHALL BE MAINTAINED DURING THE REHABILITATION OF THE PROJECT BY THE GENERAL CONTRACTOR. THE MOWING SHALL BE MAINTAINED AT 2-1/2" - 4" HEIGHT AT ALL TIMES.

PAYMENT WILL BE AT THE CONTRACT PRICE FOR ITEM 659 MOWING AS PER PLAN.

### ESTIMATED QUANTITIES AND BID ITEMS

THE ESTIMATED QUANTITIES OF THE VARIOUS SPECIFIC AND SPECIAL ITEMS LISTED THROUGHOUT THESE PLANS ARE APPROXIMATE. THESE QUANTITIES ARE SUBSEQUENTLY INCLUDED IN THE BID ITEMS LISTED ON THE GENERAL SUMMARY SHEET AND IN OTHER CONTRACT DOCUMENTS.

MEDINA COUNTY  
MED-71 2250 (NB)  
IR-71-4(61)224 PART II

STATE	OHIO
PROJECT	7
DATE	10/24
BY	MA8
CHECKED BY	JRO

2  
13

### RESTORATION OF EXISTING SEWAGE TREATMENT PLANT AREA

THE AREAS OF THE EXISTING SEWAGE TREATMENT PLANT AND DRIVEWAY WITHIN THE TREATMENT PLANT AREA SHALL BE PROVIDED WITH 6" OF TOPSOIL PER ITEM 653 - TOPSOIL FURNISHED AND PLACED, AND SEEDED AND MULCHED AS PER ITEM 659 - SEEDING AND MULCHING.

### ITEMS TO BE SALVAGED

THE FOLLOWING ITEMS SHALL BE REMOVED AND BECOME THE PROPERTY OF THE OHIO DEPARTMENT OF TRANSPORTATION. MATERIAL SHALL BE STORED AS PER ITEM 202.02.

1. SANITIL CHLORINATOR UNIT ONLY.
2. BLOWER MOTOR AND BLOWER W/PULLEY OR SWEAVE.
3. SEWAGE TREATMENT PLANT CONTROL PANEL.
4. PROPANE TANK.
5. INCINERATOR.
6. PERMANENT AIR FILTER.

### REMOVAL OF EXISTING SEWAGE TREATMENT PLANT

THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF EXISTING SEWAGE TREATMENT PLANT, APPURTENANCES SUCH AS PIPING, FITTINGS, GRATING AND ETC. AND TRASH TRAP, AND DISPOSING OF SAME PER ITEM 202 - REMOVAL OF STRUCTURES AND OBSTRUCTIONS.

THE SEWAGE TREATMENT PLANT AND TRASH TRAP SHALL BE PUMPED OUT PRIOR TO THE GENERAL CONTRACTORS REMOVAL OF THESE ITEMS. OHIO DEPARTMENT OF TRANSPORTATION'S DISTRICT 3 OFFICE SHALL CONTACT AN APPROVED AGENCY WHO IS LICENSED TO REMOVE, TRANSPORT AND DISPOSE OF WASTEWATER AND OBTAIN THEIR SERVICES AND PAY FOR SAME. THE GENERAL CONTRACTOR SHALL PROVIDE A MAXIMUM OF TEN (10) WORKING DAYS NOTICE TO THE DISTRICT OFFICE FROM THE DAY THEY WANT TO START THEIR REMOVAL OPERATIONS.

### MISCELLANEOUS

FOR ADDITIONAL NOTES, PAY ITEMS AND DESCRIPTIONS, SEE VARIOUS SPECIALTY ITEM SHEETS THROUGHOUT THE PLANS.

### PERMITS AND FEES (PART I & PART II)

IN ACCORDANCE WITH SEC. 107.02, THE CONTRACTOR SHALL PROCURE ALL PERMITS AND LICENSES AND PAY ALL FEES, AT NO COST TO THE STATE. THE CONTRACTOR IS REMINDED THAT MEDINA COUNTY REQUIRES VARIOUS INSPECTION FEES AND PERMITS TO WORK ON COUNTY FACILITIES. FURTHER INFORMATION CAN BE OBTAINED FROM:

WM. ANDERSON MEDINA COUNTY ENGINEER P.O. BOX 825 791 W. SMITH RD. MEDINA, OHIO 44256 216-723-3641	KENNETH HOTZ MEDINA COUNTY SANITARY ENGINEER P.O. BOX 542 791 W. SMITH RD. MEDINA, OHIO 44256 216-723-3641
--	---

# GENERAL

PURPOSE: THE PURPOSE OF THIS OUTLINE SPECIFICATION IS TO ESTABLISH THE DESIGN AND QUALITY OF THE MAJOR ELEMENTS OF THE RENOVATION OF THE BUILDING AND SITE AREA, INCLUDING NEW IMPROVEMENTS. WHERE MANUFACTURERS ARE LISTED, THERE MAY BE OTHERS WHICH ARE ACCEPTABLE.

## GENERAL CONTRACT

(NOTE: ALL PLUMBING AND ELECTRICAL WORK IS COVERED UNDER THE PLUMBING CONTRACT OR ELECTRICAL CONTRACT.)

### 1. CONCRETE

A. ALL CONCRETE DESIGN AND PLACEMENT WITHIN THE BUILDING AREA SHALL BE IN ACCORDANCE WITH THE OHIO DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND MATERIAL SPECIFICATIONS ITEM 499 CONCRETE - GENERAL, CLASS "C" CONCRETE AND ITEM 511 - CONCRETE FOR STRUCTURES, ITEM 509 - REINFORCING STEEL, ITEM 705.03 - PREFORMED FILLERS AND ITEM 709.10 - WELDED STEEL WIRE FABRIC FOR CONCRETE REINFORCEMENT.

B. SLOPES IN THE SLAB SHALL CONFORM TO ORIGINAL ELEVATIONS.

### 2. MASONRY

A. ANY DEFECTIVE MORTAR JOINTS SHALL HAVE LOOSE MORTAR REMOVED AND JOINTS REPOINTED WITH MORTAR OF COMPARABLE COLOR OF EXISTING WORK.

### 3. THERMAL AND MOISTURE PROTECTION

A. WHERE SEALANT HAS DETERIORATED BETWEEN ALUMINUM WINDOW SECTIONS AND ADJOINING MASONRY MATERIALS, THE EXISTING SEALANT SHALL BE REMOVED IN ITS ENTIRETY AND A NEW SEALANT, A ONE PART SILICONE GLAZING SEALANT SIMILAR TO DOW CORNING 989 SILICONE GLAZING SEALANT, GENERAL ELECTRIC SILICONE 1200, RHONE-POULENC RHODORSIL 30 OR AN APPROVED EQUAL, SHALL BE INSTALLED.

B. WEATHER STRIP SHALL BE INSTALLED ON EXTERIOR SWINGING AND SLIDING DOORS SIMILAR TO 137NOKB, BY NATIONAL GUARD PRODUCTS, 303 AV BY PENKO, 815 DUE BY REESE ENTERPRISES, INC. OR AN APPROVED EQUAL.

C. NEW THRESHOLDS SHALL BE INSTALLED UNDER SWINGING DOORS. INSTALL SADDLE TYPE ALUMINUM SIMILAR TO "425" AS MANUFACTURED BY NATIONAL GUARD PRODUCTS, INC., 655 AS MANUFACTURED BY ZERO INTERNATIONAL, S 2058A AS MANUFACTURED BY REESE ENTERPRISES INC., OR AN APPROVED EQUAL.

### 4. TOILET ROOM ACCESSORIES

A. WHERE CERAMIC TILE IS BROKEN, OTHER THAN A SINGLE HAIRLINE CRACK, THE TILE SHALL BE REMOVED, THE SUBSTRATE THOROUGHLY CLEANED AND A REPLACEMENT TILE OF THE SAME SIZE, COLOR AND TEXTURE INSTALLED.

B. ANY DEFECTIVE GROUT SHALL BE REMOVED AND JOINT RE-GROUTED.

C. FIVE (5) EXISTING COMBINATION MIRROR, SOAP AND TOWEL DISPENSERS SHALL BE REMOVED, VOID FILLED AND NEW TILE INSTALLED TO MATCH ADJACENT CERAMIC TILE.

D. REMOVE EXISTING WASTE TOWEL DISPOSALS FROM MEN'S TOILET ROOM, FILL VOID AND INSTALL NEW TILE TO MATCH ADJACENT CERAMIC TILE.

### E. HEATER SHIELD:

THE GENERAL CONTRACTOR SHALL FURNISH AND INSTALL, ABOVE EACH BASEBOARD HEATING UNIT, AND UNDER HAND DRYERS, A STAINLESS STEEL HEATER SHIELD.

THE SHIELD SHALL BE FABRICATED OF 16GA (.0625) 304 SERIES STAINLESS STEEL IN ACCORDANCE WITH THE PLANS AND CONFORMING TO 230.09, WITH ALL JOINTS AND CORNERS

WELDED, GROUND AND POLISHED IN ACCORDANCE WITH STANDARD INDUSTRY PRACTICES. ALL EXPOSED EDGES SHALL BE DEBURRED TO REMOVE ALL SHARP EDGES.

THE SHIELD SECTIONS SHALL BE ANCHORED TO THE WALL WITH 1/4" DIA. X 1-1/4" ANCHOR BOLTS AS MANUFACTURED BY WE3-IT OR AN APPROVED EQUAL. THE CONTRACTOR SHALL LOCATE AND DRILL THE BOLT HOLES TO MATCH THE HOLE PATTERN OF THE FABRICATED SECTIONS, WITH THE HOLE SIZE AND DEPTH RECOMMENDED BY THE ANCHOR BOLT MANUFACTURER.

F. ELECTRIC HAND DRYER: UNITS SHALL BE SURFACE MOUNTED, ONE PIECE CAST IRON COVER WITH PROCELAN ENAMEL FINISH. UNITS SHALL HAVE 30 SECOND DRYING CYCLE AND NOZZLE IN FIXED POSITION. TWO (2) ARE REQUIRED IN EACH TOILET ROOM, RATED AT 10 AMP (F.L.A.), 230 V AC, 2300 WATTS, 60 HZ. UNITS TO BE SIMILAR TO B-2009 AS MANUFACTURED BY BOBRICK, MODEL A 54 BY WORLD DRYER CORPORATION OR APPROVED EQUAL. COLOR TO BE NO. 169.

G. GRAB BARS SHALL BE REMOVED FROM MEN'S AND WOMEN'S TOILET ROOM AND REPLACED WITH A PAIR OF STAINLESS STEEL GRAB BARS. IN EACH TOILET ROOM, GRAB BARS SHALL BE CONSTRUCTED OF 18 GAUGE, TYPE 304 STAINLESS STEEL WITH CONCEALED MOUNTINGS, 1-1/4" DIAMETER WITH PEENED NON-SLIP GRIPPING SURFACE AND SATIN FINISH FLANGE. BAR SHALL BE SIMILAR TO SERIES 8-550 AS MANUFACTURED BY BOBRICK OR COMPARABLE PRODUCTS BY BRADLEY, PARKER, OR APPROVED EQUAL.

H. TOILET PARTITIONS. EXISTING TOILET PARTITIONS SHALL BE REMOVED AND DISCARDED. NEW TOILET PARTITIONS SHALL BE SANMETAL "ACADEMY", MILLS "SENTINEL" OR WEIS "HI-STYLE". TOILET PARTITIONS SHALL BE #304 STAINLESS STEEL, NO. 4 FINISH FLOOR SUPPORTED TYPE HEAD RAIL REINFORCEMENT. DOORS (DOORS A MINIMUM OF 18 GAUGE) AND PARTITIONS SHALL BE 1 INCH THICK MADE OF TWO SHEETS OF STAINLESS STEEL (PARTITIONS A MINIMUM OF 22 GAUGE) WITH EDGES FORMED, ASSEMBLED OVER AND CEMENTED UNDER PRESSURE TO A DENSE, SOUND-DEADENING CORE INSULATION. THE TWO FACE PLATES ON DOORS AND PARTITIONS SHALL HAVE FORMED EDGES, SEALED WITH CONTINUOUS OVAL CROWN LOCKING STRIPS OF 20 GAUGE STAINLESS STEEL. THE DOOR EDGES SHALL BE ELECTRICALLY WELDED TOGETHER. REINFORCE PARTITIONS TO RECEIVE HARDWARE. ALL REINFORCING TO BE CONCEALED. DRILL ALL HOLES FOR HARDWARE.

PILASTERS SHALL BE MADE 1-1/4 INCHES THICK OF TWO SHEETS OF 18 GAUGE SHEET STAINLESS STEEL WELDED TOGETHER. PILASTER, WHEN SET IN PLACE, SHALL BE ANCHORED TO FLOOR BY MEANS OF FITTINGS PROVIDING FOR VERTICAL ADJUSTMENTS.

URINAL SCREENS SHALL BE GENERAL PARTITION WIS-3, WEIS TYPE WBS, OR APPROVED EQUAL. SCREENS SHALL BE STAINLESS STEEL AND BE MOUNTED WITH A STAINLESS STEEL END POST FLOOR TO CEILING. NECESSARY MOUNTING HARDWARE SHALL BE ACCORDING TO MANUFACTURER USING VANDAL PROOF SCREWS.

DIVIDING PARTITIONS SHALL BE ATTACHED TO PILASTERS AND WALL WITH NON-FERROUS, CHROME-PLATED STIRRUP BRACKETS USING VANDAL PROOF SCREWS. THE BASE OF THE PILASTERS AND FLOOR ANCHORAGE SHALL BE CONCEALED BY A 3 INCH POLISHED STEEL TRIM.

DOORS SHALL BE EQUIPPED WITH CONCEALED, CONTROLLED GRAVITY ACTION, DOOR HINGES. EACH DOOR SHALL BE MOUNTED ON HINGES CONSISTING OF UPPER AND LOWER BRACKETS OF CAST ALLOY NONFERROUS METAL WITH CHROME-PLATED FINISH. CONTROLLED OPERATION OF DOOR SHALL BE BY A BALL BEARING ROLLER TRAVELING UNDER SPRING TENSION ON AN INCLINED CAM HINGE SHALL BE ADJUSTABLE TO PERMIT DOOR TO COME TO REST AT ANY ANGLE OR POSITION DESIRED TO HOLD DOOR IN OPEN OR CLOSED POSITION WHEN NOT LATCHED. ALL MOVING HINGE PARTS SHALL OPERATE IN BEARINGS TO PROVIDE FOR FREE MOVEMENT OF ALL PARTS. EACH DOOR SHALL BE EQUIPPED

# NOTES

WITH ONE CAST ALLOY LUMINO PLATED COAT HOOK AND BURNER, AND ONE CAST ALLOY CHROME PLATED COMBINATION DOOR STOP AND LATCH KEEPER, TO BE SECURELY ATTACHED TO THE PILASTER AT A POINT OPPOSITE SLIDE BAR LATCH ON THE DOOR. PROVIDE AND INSTALL TOILET PAPER HOLDERS FOR EACH TOILET AS HEREIN SPECIFIED.

HANDICAPPED TOILET COMPARTMENT DOORS SHALL BE 2'-8" WIDE. ALL OTHER DOORS SHALL BE 2'-0" WIDE.

1. HANDICAPPED SYMBOLS SHALL BE PLACED ON MEN AND WOMEN'S TOILET ROOM DOORS. INTERNATIONAL HANDICAPPED SYMBOL SHALL BE IN DECAL FORM.

3. GRAVITY SOAP DISPENSING SYSTEM

FURNISH AND INSTALL, AS SHOWN ON THE DRAWINGS, TWO GRAVITY FEED LIQUID SOAP SYSTEMS WHICH SHALL SUPPLY LIQUID SOAP TO EACH LAVATORY IN THE MEN'S AND WOMEN'S TOILET ROOMS.

THE SYSTEM SUPPLYING THE WOMEN'S LAVATORIES SHALL CONSIST OF ONE AMERICAN DISPENSER CO. MODEL NO. 500 SURFACE MOUNTED STAINLESS STEEL TANK, 5 GALLON CAPACITY, SIZE 15-1/2" W X 13-1/4" H X 6-7/8" D, FABRICATED OF SEAM WELDED 22 GAUGE, TYPE 18-8 STAINLESS STEEL, SATIN FINISH, WITH LEAK PROOF POSITIVE ACTING SOAP LEVEL INDICATOR LOCATED ON FRONT OF TANK. THE ENTIRE COVER SHALL SWING OPEN FOR FILLING, BOTTOM TO BE FITTED WITH 3/8 INCH NPT FEMALE COUPLING. FURNISH WITH AMERICAN DISPENSER CO. NO. 300 COMBINATION UNION SHUT-OFF.

THE TOP OF THE TANK SHALL BE MOUNTED 7'-0" OFF FINISHED FLOOR.

A WALL BRACKET SHALL BE FORMED FROM 1/4" STEEL PLATE WELDED TO FORM A 18" LONG X 8" WIDE TOP WITH AN 18" LONG X 3" HIGH BACK FOR MOUNTING TO WALL. PROVIDE THE TOP PLATE WITH A 1 INCH DIA. DRILLED HOLE, LOCATED TO ALLOW CONNECTION TO THE SOAP SUPPLY LINE. PROVIDE TWO (2) EQUALLY SPACED 3/8 INCH HOLES IN THE BACK PLATE FOR MOUNTING BRACKET TO WALL. TANK SHALL REST ON BRACKET.

ALL PIPING SHALL BE TYPE "K" HARD COPPER TUBING WITH CAST BRASS FITTINGS USED THROUGHOUT SYSTEM WITH 95/5 SOLDER JOINTS.

THREE (3) VANDAL-PROOF HORIZONTAL STYLE SOAP VALVES, AMERICAN DISPENSER CO. NO. 5012, CONSTRUCTED OF POLISHED CHROMIUM-PLATED BRASS, SHALL BE FURNISHED AND INSTALLED THROUGH THE 4" GLAZED TILE WALL OF WOMEN'S ROOM. THERE SHALL BE ONE VALVE INSTALLED AT EACH LAVATORY MOUNTED 37" ABOVE FINISHED FLOOR.

THE SYSTEM SUPPLYING THE MEN'S LAVATORIES SHALL BE DUPLICATED AS SPECIFIED IN ABOVE, EXCEPT THAT ONLY TWO (2) VANDAL-PROOF HORIZONTAL STYLE SOAP VALVES SHALL BE FURNISHED.

THE SOAP TANKS SHALL BE PLACED ON THE BACK OF THE RESPECTIVE WALL THAT SUPPORTS THE LAVATORIES THAT EACH SYSTEM IS SERVING.

APPROVED EQUAL MANUFACTURERS FOR THE ABOVE SPECIFIED EQUIPMENT SHALL BE BY BRADLEY, BOBRICK OR WATERGUS INC.

K. SANITARY NAPKIN DISPOSAL.

TWO (2) NAPKIN DISPOSALS REQUIRED IN WOMEN'S TOILET ROOM. UNIT TO SERVE TWO COMPARTMENTS. MOUNTING IN TOILET PARTITION. UNIT TO BE FABRICATED OF TYPE 304 STAINLESS STEEL SATIN FINISH. UNIT TO HAVE SEAMLESS FLANGES AND SELF-CLOSING DOORS ON EACH SIDE. ROUGH OPENING 11" WIDE X 15-1/2" HIGH. DISPOSAL TO BE SIMILAR TO MODEL B-354 AS MANUFACTURED BY BOBRICK. COMPARABLE MODELS BY BRADLEY, PARKER OR AN APPROVED EQUAL ARE ACCEPTABLE.

L. TOILET TISSUE DISPENSER - SEVEN (7) REQUIRED, ONE FOR EACH TOILET STALL. UNIT SHALL BE SURFACE MOUNTED, HEAVY DUTY ALUMINUM CASTING WITH SATIN FINISH. SPINDLES TO BE

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MIRROR HIGH IMPACT PLASTIC WITH CONCEALED LUMINO. OLIVE. CONTROLLED DELIVERY OF TISSUE. FASTENERS TO BE VANDAL RESISTANT. UNIT TO BE SIMILAR TO MODEL B-274 AS MANUFACTURED BY BOBRICK. COMPARABLE MODELS BY BRADLEY, PARKER OR APPROVED EQUAL ARE ACCEPTABLE.

M. MIRRORS: TWO (2) TILT HANDICAPPED MIRRORS REQUIRED (ONE IN EACH TOILET ROOM). SURFACE MOUNTED, FRAME TYPE 304 STAINLESS STEEL SATIN FINISH, NO. 1 QUALITY FLOAT/PLATE GLASS MIRROR ELECTROLYTICALLY COPPER PLATED. MIRROR EXTENDS 4" FROM WALL AT TOP AND TAPERS TO 1" AT BOTTOM. DIMENSIONS, 14" WIDE X 30" HIGH. MIRRORS TO BE SIMILAR TO MODEL B-293 AS MANUFACTURED BY BOBRICK. COMPARABLE PRODUCTS BY BRADLEY, PARKER OR APPROVED EQUAL ACCEPTED. THREE (3) STAINLESS STEEL CHANNEL FRAME MIRRORS 18" WIDE X 30" HIGH REQUIRED, TWO IN WOMEN'S TOILET ROOM AND ONE IN MEN'S TOILET ROOM. MIRROR TO BE NO. 1 QUALITY, 1/4" FLOAT/PLATE GLASS MIRROR ELECTROLYTICALLY COPPER PLATED; GUARANTEED AGAINST SILVER SPOILAGE FOR 10 YEARS. BACK TO BE GALVANIZED STEEL. MIRROR TO BE INSTALLED ON CONCEALED WALL HANGER AND LOCKED IN PLACE BY TWO THEFT-RESISTANT SCREWS. MIRROR TO BE SIMILAR TO MODEL B-165 AS MANUFACTURED BY BOBRICK. COMPARABLE PRODUCTS BY BRADLEY, PARKER OR APPROVED EQUAL ARE ACCEPTABLE.

## ITEM SPECIAL-REST AREA WATER RESERVOIR TANK CLEAN-OUT (EXCEPT ELECT. & PLUMBING WORK)

A. THE EXISTING WATER STORAGE TANK SHALL BE DRAINED, CLEANED AND RECOATED. ALL INTERIOR AND EXPOSED EXTERIOR CORRODED SURFACES SHALL BE WIRE BRUSHED DOWN TO CLEAN, BRIGHT BARE METAL. THESE SURFACES SHALL THEN BE PRIME WITH A SINGLE COAT OF INEMEC SERIES 20-1255 POTA-POR, 5 MILS DRY THICKNESS. ALL SURFACES TO RECEIVE PAINT SHALL BE THOROUGHLY DRY AND FREE OF STAINS. A FINAL FIELD COAT OF INEMEC SERIES 20-2000 PAINT 6 MILS DRY THICKNESS SHALL BE APPLIED AFTER THE SURFACE HAS BEEN APPROVED. PAINTING SHALL BE IN ACCORDANCE WITH THE LATEST A.W.W.A. STANDARDS FOR WATER STORAGE RESERVOIRS.

ALL PAINT SHALL BE OF THE SAME MANUFACTURER. PAINT SHALL BE MANUFACTURED BY INEMEC, KOPPERS, CARBOLINE OR EQUAL. Contractor shall also furnish, install and paint new air vent, manhole housing and anodes as shown on Sht. No. 10.

## ITEM SPECIAL-WATER WELL ASSEMBLY (EXCEPT ELECT. WORK)

1. ON THE 1-1/2" COPPER LINES FROM EACH WELL, ON EACH SIDE OF THE "TEE" CONNECTION, ADD 2 - 125# BRASS, SCREWED, HORIZONTAL SWINGS CHECK VALVE W/M.I.P.S. TO COPPER ADAPTORS. SWING SHALL BE IN DIRECTION OF FLOW OF EACH INDIVIDUAL LINE.

2. A) THE GENERAL CONTRACTOR SHALL FURNISH ALL NECESSARY LABOR, MATERIAL, TOOLS, EQUIPMENT AND ACCESSORIES REQUIRED TO CUT THE EXISTING EXTERIOR BUILDING WALL AND INTERIOR CONCRETE FLOORS, AND PERFORM ALL EXCAVATION AND BACKFILL REQUIRED THERE TO PERMIT THE PLUMBING CONTRACTOR TO INSTALL THE WELL SUPPLY PIPING FROM THE EXTERIOR OF THE BUILDING TO THE INTERIOR LOCATION OF THE CHLORINATOR PUMP AND TANK ASSEMBLY AND THE RETURN FROM THE BUILDING BACK TO THE UNDERGROUND RESERVOIR TANK. THE PLUMBING CONTRACTOR SHALL WORK JOINTLY WITH THE GENERAL CONTRACTOR IN THE LAYOUT OF THE AREA AND REQUIRED SPACE NEEDED FOR THIS INSTALLATION, UNDER THE APPROVAL OF THE PROJECT ENGINEER.

B) AFTER THE PLUMBER HAS INSTALLED AND TESTED THE INSTALLATION AND APPROVED BY THE INSPECTION AGENCY'S AND PROJECT ENGINEER, THE GENERAL CONTRACTOR SHALL RESTORE THE BUILDING TO ITS ORIGINAL CONDITION AS REQUIRED.

For details of schematic well supply piping see sheet No. 10.

## GENERAL

### PLUMBING CONTRACT

#### MOTORIST SERVICES BUILDING & STORAGE UNIT

##### TOILET ROOMS

- A. LAVATORIES: FIVE (5) LAVATORIES SHALL BE REMOVED (THE THREE FROM WOMEN'S TOILET ROOM SHALL BE SALVAGED AND TURNED OVER TO ODOT) AND BE REPLACED WITH NEW FIXTURES. ONE HANDICAPPED LAVATORY SHALL BE INSTALLED IN WOMEN'S TOILET ROOM AND ONE HANDICAPPED LAVATORY SHALL BE INSTALLED IN MEN'S TOILET ROOM. HANDICAPPED LAVATORIES SHALL BE SIMILAR TO MODEL NO. 9140.013 AS MANUFACTURED BY AMERICAN STANDARD. FIXTURES FOR HANDICAPPED LAVATORIES SHALL BE SIMILAR TO THOSE LISTED BELOW.

1. LAVATORY FITTING, SELF-CLOSING, ADJ. FROM 2-15 SECONDS, WITH "TIP-TAP" WIDE SPREAD HANDLES, HOT & COLD, ON 12" CENTERS, CHICAGO FAUCET CAT. NO. 409-E-2805 W/12" CENTERS.

2. LAVATORY TRAP SHALL BE AMERICAN STANDARD, ONE-PIECE CAST BRASS TRAP W/CLEANOUT PLUG, CAT. NO. 4428.017 W/1-1/4" INLET AND 1-1/4" M.I.P.S. OUTLET, W/AMERICAN STANDARD CAT. NO. 2411.015, 1-1/4" PERFORATED GRID DRAIN TAILPIECE.

3. FURNISH TRAP OUTLET W/AMERICAN STANDARD CAT. NO. 4445.011, 6" LONG CHROME FINISH TRAP NIPPLE, 1-1/4" SIZE W/CAST BRASS FLANGE.

4. FURNISH 3/8" SUPPLY PIPE W/LOOSE KEY STOP, AMERICAN STANDARD CAT. NO. 7536.014.

5. CONCEALED ARM SUPPORT CHAIR CARRIER TO BE SIMILAR TO MADE CAT. NO. W-520-09-M24 OR COMPARABLE ITEMS BY JOSAM OR ZURN.

6. USE CHICAGO FAUCET OR AMERICAN STANDARD STRAIGHT TAIL PICES OF SIZE AS REQUIRED TO MAKE CONNECTIONS TO FAUCETS.

7. FURNISH 10 STOP KEYS, KEYED ALIKE, FOR THE SUPPLY PIPES.

8. FIXTURES TO BE SEALED TO WALL AT TOP AND SIDES OF SPLASH BACK WITH G.E. WHITE SILICONE SEALANT OR APPROVED EQUAL.

- B. REMAINING LAVATORIES: THREE (3) SHALL BE SIMILAR TO AMERICAN STANDARD "NEW LUCERNE" CATALOG NO. 0355.015, SIZE 20" X 18" WITH 8" CENTER FAUCET HOLES. FIXTURES FOR LAVATORIES SHALL BE SIMILAR TO THOSE LISTED BELOW:

1. LAVATORY FITTING, SELF-CLOSING, ADJ. FROM 2-15 SECONDS, WITH "TIP-TAP" WIDE SPREAD HANDLES, HOT AND COLD, ON 8" CENTERS, CHICAGO FAUCET CAT. NO. 409-E-2805 W/8" CENTERS.

2. LAVATORY TRAP SHALL BE AMERICAN STANDARD, ONE-PIECE CAST BRASS WITH CLEANOUT PLUG, CAT. NO. 4428.017 WITH 1-1/4" INLET AND 1-1/4" M.I.P.S. OUTLET WITH AMERICAN STANDARD CAT. NO. 2411.015, 1-1/4" PERFORATED GRID DRAIN TAIL PICE.

3. FURNISH TRAP OUTLET WITH AMERICAN STANDARD CAT. NO. 4445.011, 6" LONG CHROME FINISH TRAP NIPPLE, 1-1/4" SIZE WITH CAST BRASS FLANGE.

4. FURNISH 3/8" SUPPLY PIPE WITH LOOSE KEY STOP, AMERICAN STANDARD CAT. NO. 2302.115.

5. CONCEALED ARM CHAIR CARRIERS SHALL BE SIMILAR TO MADE CAT. NO. W-520-08 OR COMPARABLE ITEMS BY JOSAM OR ZURN.

6. USE CHICAGO FAUCET OR AMERICAN STANDARD STRAIGHT TAIL PICES OF SIZE REQUIRED TO MAKE CONNECTIONS TO FAUCETS.

7. FIXTURES TO BE SEALED TO WALL AT TOP AND SIDES OF SPLASH BACK WITH G.E. WHITE SILICONE SEALANT OR APPROVED EQUAL.

- C. "SANISTAND" WALL HUNG TOILET FIXTURE IN WOMEN'S TOILET ROOM SHALL BE REMOVED AND DISCARDED. INSTALL NEW WATER CLOSET SIMILAR TO REMAINING ADJACENT FIXTURES. ROUGH IN PLUMBING MUST BE MODIFIED FROM A FLOOR OUTLET TO A WALL HUNG WITH A BACK OUTLET. VENT LINE MUST ALSO BE MODIFIED. THIS TOILET FIXTURE REQUIRES A NEW FLUSH VALVE SIMILAR TO SLOAN ROYAL 144-3-YBL WITH WATER SAVER KIT FOR 3 GALLON FLUSH, 1" WHEEL HANDLE STOP WITH PUSH BUTTON FLUSH VALVE AND VACUUM BREAKER. INSTALL PUSH BUTTON 36" ABOVE FINISH FLOOR. WATER CLOSET TO BE FURNISHED WITH VANDAL PROOF CAP NUTS AND M8 NEOPRENE BOWL GASKET.

- D. ALL EXISTING FLUSH VALVES ON WATER CLOSETS AND URINALS SHALL HAVE A WATER SAVER KIT AS MANUFACTURED BY SLOAN INSERTED IN EACH VALVE.

#### MOTORIST SERVICES ROOM

- A. THE EXISTING ELECTRIC WATER COOLER IN MOTORIST SERVICES ROOM SHALL BE REMOVED AND REPLACED WITH A HANDICAPPED ELECTRIC WATER COOLER SIMILAR TO MODEL HWCB, AS MANUFACTURED BY HENRY OR MODEL BFC-7, AS MANUFACTURED BY HALSEY TAYLOR, OR EQUAL. EXISTING WATER COOLER SHALL BE SALVAGED AND RETURNED TO STATE.

#### MECHANICAL ROOM

- A. REMOVE THE EXISTING HOT WATER TANK AND REPLACE WITH A LIKE UNIT. THE UNIT SHALL MEET THE FOLLOWING:

- 240 VOLT, 1 PHASE, 60 HERTZ AC.
- MAX. OF 4500 WATTS W/UPPER AND LOWER ELEMENTS FOR NON-SIMULTANEOUS OPERATION WITH TWO (2) SINGLE THROW THERMOSTATS
- NOMINAL 120 GALLON CAPACITY
- 150 PSI WORKING PRESSURE
- 300 PSI TEST PRESSURE
- EXTENDED HIGH DENSITY MAGNESIUM ANODE
- FORM INSULATION
- GLASS LINED
- RELIEF VALVE
- FURNISH W/ONE "WATTS" XL-40 THERM. AND PRESSURE RELIEF VALVE.

- B. REMOVE THE EXISTING HYDRO-PNEUMATIC TANK AND TURN IT OVER TO THE OWNER. INSTALL A NEW HYDRO-PNEUMATIC TANK SIMILAR TO A THURSH-MITROL MODEL WX-1200L, 317 GALLON CAPACITY, WITH DIAPHRAM, 125 PSIG. WORKING PRESSURE AND FACTORY CHARGED WITH 30 PSIG UNITS THAT REQUIRE TOP CONNECTION SHALL NOT BE ALLOWED.

- UNIT SHALL BE MANUFACTURED BY THURSH-MITROL, TACO OR EQUAL.

#### WATER SYSTEM IMPROVEMENTS

##### A. HYPOCHLORINATOR SYSTEM

- (A) THE WORK INCLUDED IN THIS ITEM SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE BID FOR EACH ITEM SPECIAL - WATER SYSTEM HYPOCHLORINATOR (EXCEPT ELECTRICAL WORK) COMPLETE AND ACCEPTED, WHICH PRICE AND PAYMENT SHALL CONSTITUTE FULL COMPENSATION FOR FURNISHING, HAULING, INSTALLING ALL PLUMBING MATERIALS, LABOR, EQUIPMENT (INCLUDING SOLUTION FEED PUMP AND MOTOR), TOOLS AND INCIDENTALS NECESSARY TO COMPLETE THIS ITEM AND FOR SERVICE TO AND OPERATION OF THE WATER SYSTEM HYPOCHLORINATOR.

- (B) FURNISH AND INSTALL ONE (1) (LMI) LIQUID METRONICS INCORPORATED SERIES A111-915 OR APPROVED EQUAL ELECTRONIC DIAPHRAM PUMP. THE METERING PUMP SHALL CONFORM TO THE FOLLOWING SPECIFICATIONS:

EXCEPT TO SUPPLY CAPACITY IN THIS UNIT.

## NOTES

### MECHANICAL ROOM

- REMOVE EXISTING PRESSURE SWITCHES AND REPLACE WITH TWO (2) MERCURIO PRESSURE SWITCHES, MODEL DA-31-21 HONEYWELL OR EQUAL.

- PRESSURE SWITCHES RANGE 15 - 100 PSIG, RANGE 6, EXTERNAL ADJUSTABLE DIFFERENTIAL SETTINGS, SPST MERCURY CONTACTS OPENING ON INCREASING PRESSURE, EQUIP WITH PRESSURE SNUBBER AND NEEDLE VALVE:

#### SWITCH SETTINGS

START	STOP
P.S. 1 - 30 PSI PUMP #1	50 PSI
P.S. 2 - 20 PSI PUMP #2	45 PSI

#### HYPOCHLORINATOR SYSTEM (CONTINUED)

OUTPUT CAPACITY	MIN	MAX
1. GALLONS PER HOUR	0.02	1.0
2. LITERS PER HOUR	0.076	3.79
3. ML OR CC PER MIN.	1.26	63.0
4. OUTPUT PER STROKE	0.13	0.63
ML OR CC		
5. STROKES PER MINUTE	10	100
6. STROKE LENGTH		204
(0-100% ADJUSTABLE)		
RECOMMENDED MIN.		
7. MAXIMUM INJECTION	80 PSI	
PRESSURE	(5.6 BAR)	
8. PEAK INPUT POWER	110 WATTS	
9. AVERAGE INPUT POWER	22 WATTS	
MAXIMUM SPEED		
10. HEIGHT: MAX	8" (203 MM)	
11. LENGTH: MAX	9.25" (235 MM)	
12. WIDTH: MAX	4.05" (103 MM)	
(FACING HEAD)		
13. SHIPPING WEIGHT	10 LBS. (4.55 KG)	

- THE METERING PUMP SHALL BE WIRED FOR 115 VOLTS AC, 1-PHASE, 60 HERTZ ELECTRICAL CONNECTION AND SHALL BE FURNISHED WITH A SPARE PARTS KIT NO. SP-UI AND NO. 10458 SUCTION TUBE SHIELD.

- (C) THE METERING PUMP SHALL BE EQUIPPED WITH ALL ANTI-SIPHON/PRESSURE RELEASE LIQUID END AND ALL ACCESSORIES AS REQUIRED TO PROPERLY INSTALL THE METERING SYSTEM AS RECOMMENDED BY THE METER MANUFACTURER. THIS SHALL INCLUDE ALL SUCTION AND DISCHARGE VALVES, ANTI-SIPHON DEVICES, REQUIRED LENGTHS OF SUCTION AND DISCHARGE HOSES, CORPORATION STOP AND NOZZEL ASSEMBLY FOR CENTER-OF-LINE CHEMICAL INJECTION, AND IN ADDITION TO THIS A 1/2" PVC BALL CHECK VALVE ASSEMBLY TO REMOVE LINE FOR CLEANING, PLUS SUCTION LINE AND FITTING THAT SHALL BE INSTALLED IN THE TANK, ALSO SUCTION LINE AND FITTING.

- (D) FURNISH AND INSTALL A LIQUID METRONICS 50 GALLON CAPACITY POLY-ETHYLENE TANK AND RIGID PUMP SUPPORT COVER, CAT. NO. 26350. TANK AND COVER SHALL BE FOR CORROSIVE AND NON-CORROSIVE CHEMICAL SOLUTIONS, SELF-SUPPORTING TAPERED SIDES WITH U.S. GALLON AND LITER GRADUATIONS. TANK SHALL INCLUDE A CARVED HOLE SO THAT THE TANK CAN BE REFILLED WITHOUT REMOVING THE COVER.

- (E) THE METERING SYSTEM SHALL BE DESIGNED AND INSTALLED FOR USE OF ONLY ONE TYPE OF CHLORINATION SOLUTION. THIS SOLUTION SHALL BE "SODIUM HYPOCHLORITE SOLUTION" AND SHALL BE UNDILUTED 5-1/4% OR 15%. THE 5-1/4% OR 15% SODIUM HYPOCHLORITE LIQUID SOLUTION SHALL BE PURCHASED THROUGH AN AGENCY THAT SUPPLIES CHEMICALS TO A MUNICIPAL SWIMMING POOL OR FACTORY AND IT SHALL BE PLACED IN THE 50 GALLON TANK, UNDILUTED. IF THE 5-1/4% IS USED IN THIS MANNER IT HAS A LIFE OF 790 DAYS @ 70°F, AND WILL BE AT LEAST 2-1/2% ORIGINAL VALUE. NO DRY POWDER CHEMICAL SHALL BE PURCHASED AND USED IN THIS CHEMICAL FEED SYSTEM.

- (F) THE MIXER MOTOR SHALL NOT BE FURNISHED OR INSTALLED ON THIS METERING SYSTEM. DELETE THIS FROM ALL SPECIFICATIONS AND PLANS SPECIFYING OR SHOWING SUCH INCLUDING ELECTRICAL PORTION OF CONTRACT.

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DRAWN BY  
CHECKED BY

- (G) ALL NUMBERS USED IN THE ABOVE ARE "LIQUID METRONICS INCORPORATED" CATALOG NUMBERS. IT SHALL BE UNDERSTOOD THAT WHERE THESE NUMBERS APPEAR, THE WORDS "OR APPROVED EQUAL SUBJECT TO ENGINEERS APPROVAL" SHALL BE INCLUDED.

- (H) THE 50 GALLON TANK SHALL BE COMPLETELY FILLED WITH THE UNDILUTED SODIUM HYPOCHLORITE AT EACH FILLING AND SHOULD HAVE ENOUGH SOLUTION ON HAND TO KEEP THE TANK A MINIMUM OF 1/3 FULL AT ALL TIMES.

- (I) THE CONTRACTOR SHALL FURNISH A TEST KIT CAPABLE OF TESTING CHLORINE PH, HARDNESS AND IRON FOR THE OWNER'S USE.

- (J) BASIS OF PAYMENT FOR ITEM SPECIAL - WATER SYSTEM HYPOCHLORINATOR AND ALL APPURTENANCES AS SPECIFIED SHALL BE CONSIDERED AS ONE UNIT AND FURNISHED BY THE PLUMBING CONTRACTOR. THE NUMBER OF UNITS TO BE PAID FOR SHALL BE THE NUMBER OF EACH UNIT, LISTED AND ESTIMATED SEPARATELY, COMPLETE AND ACCEPTED. THE ELECTRICAL CONTRACTOR SHALL INSTALL AND HOOKUP ALL ELECTRICAL COMPONENTS AS SPECIFIED AND/OR REQUIRED. See details on Sheet No. 10.

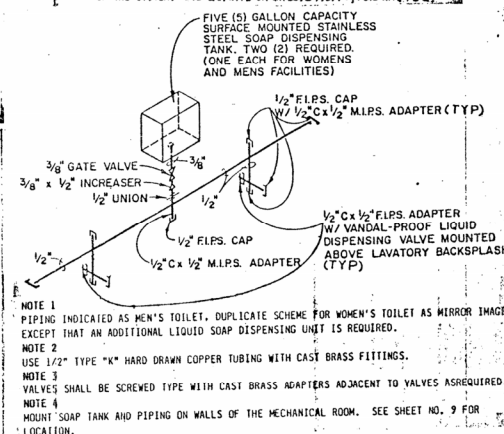
#### ITEM SPECIAL-WATER WELL ASSEMBLY (EXCEPT ELECT. WORK)

- THE CONTRACTOR SHALL REMOVE ALL EXISTING WATER SUPPLY AND WELL PUMPS AND RETURN THEM TO THE OWNER.

- THE WELL PUMPS AND WATER SUPPLY PUMPS SHALL THEN BE REPLACED WITH NEW UNITS. UNITS SHALL BE OF A SINGLE MANUFACTURER AND BE MEYERS, DENING, TRANSAMERICA, DELAVAL OR APPROVED EQUAL. EACH WELL PUMP SHALL BE SUPPLIED WITH AN IN-LINE CHECK VALVE AND DOLE FLOW CONTROL FITTING AND BE OF THE SAME SIZE CAPACITY AND PRESSURE OF THOSE REMOVED. NEW WATER STORAGE SUPPLY PUMPS SHALL BE OF THE SAME CAPACITY AND PRESSURE OF THOSE REMOVED. REPLACE ALL WELL ELECTRODES, NUMBER AS REQUIRED. See details on Sheet No. 10.

#### ITEM SPECIAL-REST AREA WATER RESERVOIR TANK (PLUMBING ONLY)

- THE PLUMBING CONTRACTOR SHALL PERFORM ALL PLUMBING WORK AS DETAILED ON THE WATER SYSTEM DRAWING, INCLUDING REMOVAL AND REPLACEMENT OF EXISTING WATER SUPPLY LINES AND CHLORINATING OF THE SYSTEM. See details on Sheets No. 10, 13B and 13C.



- NOTE 1  
PIPING INDICATED AS MEN'S TOILET. DUPLICATE SCHEME FOR WOMEN'S TOILET AS MIRROR IMAGE EXCEPT THAT AN ADDITIONAL LIQUID SOAP DISPENSING UNIT IS REQUIRED.
- NOTE 2  
USE 1/2" TYPE "K" HARD DRAWN COPPER TUBING WITH CAST BRASS FITTINGS.
- NOTE 3  
VALVES SHALL BE SCREWED TYPE WITH CAST BRASS ADAPTERS ADJACENT TO VALVES AS REQUIRED.
- NOTE 4  
MOUNT SOAP TANK AND PIPING ON WALLS OF THE MECHANICAL ROOM. SEE SHEET NO. 9 FOR LOCATION.

#### LIQUID SOAP DISPENSING UNIT ISOMETRIC

NOT TO SCALE

GENERAL NOTES



## GENERAL

### ELECTRICAL CONTRACTOR MOTORIST SERVICES BUILDING AND STORAGE UNIT

- RECEPTACLES IN MEN'S TOILET ROOM, WOMEN'S TOILET ROOM, AND MOTORIST SERVICES ROOM SHALL BE PROTECTED WITH A GROUND FAULT RECEPTACLE PLACED IN THE STORAGE UNIT.
- REMOVE EXISTING THERMOSTATS LOCATED IN THE MEN'S AND WOMEN'S ROOMS. NEW THERMOSTATS SHALL BE RELOCATED BY THE BASE BOARD HEATERS IN EACH ROOM AND INTEGRALLY MOUNTED WITH EACH UNIT.
- PERMANENT AIR FILTERS ON AIR HANDLING EQUIPMENT SHALL BE REMOVED AND REPLACED WITH NEW PERMANENT FILTERS.
- NEW REPLACEMENT PARTS OF LIKE KIND OR EQUAL THAT SHALL BE FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR TO RESTORE THE ELECTRIC FORCED AIR FURNACE IN FIRST CLASS CONDITION SHALL BE AS FOLLOWS:

- MOTOR DRIVE (FAN MOTOR)
- PULLEYS AND/OR SHEAVES
- FAN BELTS
- PRE-HEAT COILS
- RE-HEAT COILS
- PERMANENT AIR FILTERS (WASHABLE METAL)
- MISCELLANEOUS ITEMS AS REQUIRED

- THE ELECTRICAL CONTRACTOR SHALL PERFORM ALL ELECTRICAL WORK ON THE FOLLOWING ITEMS LOCATED IN THE MOTORIST SERVICES BUILDING:

- ELECTRIC WATER COOLER
- HOT WATER TANK
- HYDRO-PNEUMATIC TANK (PRESSURE SWITCHES)
- ELECTRIC UNIT HEATER
- THERMOSTATS
- ELECTRIC HAND DRYERS
- ELECTRIC EXHAUST FANS
- CHLORINATOR PUMP
- RECEPTACLES
- LIGHT FIXTURE CIRCUITS
- ELECTRIC HOT WATER HEATER
- WELL AND RESERVOIR PUMPS
- ALL WELL LEVEL CONTROLS
- PRESSURE SWITCHES

THE ITEMS SHALL BE PURCHASED UNDER THE PLUMBING CONTRACT AND SHALL CONFORM TO THE SPECIFICATIONS LISTED IN THE PLUMBING CONTRACT GENERAL NOTES.

- SKW ELECTRIC HEATING UNIT SHALL BE REMOVED AND REPLACED WITH A COMPARABLE UNIT WITH INTEGRAL THERMOSTATS.

- A HEAVY DUTY, 12 GAUGE, CUSTOM METAL GUARD SHALL BE INSTALLED OVER PHOTO-CELL UNIT IN MOTORIST SERVICES ROOM IN AREA SHOWN ON DRAWING. PAINT TO MATCH FLOOR TILE.

### WATER WELL ASSEMBLY

- THE ELECTRICAL CONTRACTOR SHALL PERFORM ALL ELECTRICAL WORK NECESSARY TO COMPLETE THE INSTALLATION OF THE WATER WELL ASSEMBLY AS DETAILED ON THE PLANS.

- LIGHTNING ARRESTORS SHALL BE ADDED TO WELL CONTROL SYSTEM.

### WATER STORAGE TANK

- THE ELECTRICAL CONTRACTOR SHALL PERFORM ALL ELECTRICAL WORK REQUIRED IN REFURBISHING THE STORAGE TANK AS DETAILED ON THE PLANS.

### WATER SYSTEM HYPOCHLORINATOR

- THE ELECTRICAL CONTRACTOR SHALL PERFORM ALL ELECTRICAL WORK NECESSARY TO COMPLETE THE INSTALLATION OF THE WATER SYSTEM HYPOCHLORINATOR TANK AS DETAILED ON THE PLANS.

### REST AREA ENTRANCE RAMP LIGHTING

- THE ELECTRICAL CONTRACTOR IS TO DISCONNECT THE EXISTING 1-1/2" DUCT-CABLE FOR RAMP LIGHTING AT THE EXISTING PULL BOXES, LOCATED AT STA 285+00 ± RT. AND 278+00 ±, DUCT TO BE ABANDONED FROM PULL BOX LOCATED AT STATION 278+00 RT. TO STATION 285+00. THIS WORK TO BE DONE BEFORE GENERAL CONTRACTOR PLACES SANITARY SEWERS ALONG RAMP.

- THE ELECTRICAL CONTRACTOR IS TO INSTALL THE NEW 2" DUCT-CABLE 3 FEET RT. OF THE EXISTING GUARDRAIL. THE NEW DUCT IS TO BE PLACED AFTER THE GENERAL CONTRACTOR COMPLETES PLACEMENT OF THE NEW SANITARY SEWER ALONG THE RAMP.

### ITEM 603 - 8" SANITARY SEWER AS PER PLAN

- ALL SANITARY SEWERS AND APPURTENANCES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE MEDINA COUNTY SANITARY ENGINEERING (MCSE) DEPARTMENT'S RULES AND REGULATIONS.
- MEDINA COUNTY SANITARY ENGINEERING DEPARTMENT REGULATIONS PROHIBIT ROOF DRAINS, FOUNDATION DRAINS, OR ANY OTHER CLEAR OR SURFACE WATER CONNECTIONS TO SANITARY SEWERS. THIS REGULATION IS STRICTLY ENFORCED BY MCSE.
- SANITARY SEWER PIPES MAY BE COMPOSED OF ONE OF THE FOLLOWING MATERIALS:

- ACRYLONITRILE BUTADIENE STYRENE (ABS) COMPOSITE, ASTM D2680, WITH JOINTS AS PER ASTM D2680 CHEMICALLY WELDED USING A STANDARD ABS COUPLING AND LATERALS AS PER ASTM D2751 WITH MINIMUM PIPE STIFFNESS OR SDR EQUAL TO 200 PSL.
- POLYVINYL CHLORIDE (PVC), ASTM D3034, WITH JOINTS AS PER ASTM 3212 COMPRESSION TYPE AND LATERALS AS PER ASTM D3034 WITH MINIMUM PIPE STIFFNESS OR SDR EQUAL TO SDR 35, SDR 33.5 FOR LATERALS.
- VITRIFIED CLAY (VCP), ASTM C700, WITH JOINTS AS PER ASTM C425 AND LATERALS AS PER ASTM C700.
- ALL ROAD SURFACES, EASEMENTS OR RIGHT-OF-WAYS DISTURBED BY CONSTRUCTION OR ANY PART OF THIS SANITARY IMPROVEMENT ARE TO BE RESTORED COMPLETELY TO THE BEFORE CONSTRUCTION CONDITION OR BETTER.

- THE CONTRACTOR SHALL KEEP OPEN AND CLEAN ALL DITCHES, RESTORE ALL DRAINAGE STRUCTURES WITHIN THE LIMITS OF CONSTRUCTION, REPLACE, IN KIND, ALL DRIVEWAY APPROACHES, AND FINE GRADE AND SEED ALL AREAS DISTURBED BY THIS CONSTRUCTION OTHER THAN PAVEMENT AND BERMS.

- FOR VITRIFIED CLAY PIPE TRENCH CONDITIONS, SEE DETAIL SHEET NO. 13A

- ABS AND PVC PIPE TRENCH CONDITIONS:
- USE CLASS "B" BEDDING PER ODOT SECTION 603.04. THE MATERIAL FOR THIS BEDDING SHALL MEET ODOT SPECIFICATIONS FOR NUMBERS 6, 8, OR 68 COARSE AGGREGATE AND SHALL BE GRAVEL, LIMESTONE OR SLAG.
- TRENCH WIDTHS SHALL BE PER MCSE STANDARD FOR VITRIFIED CLAY PIPE. (SEE DETAIL SHEET NO. 13A)
- TRENCHES IN PAVED AREAS OR PROPOSED PAVED AREAS SHALL BE BACKFILLED WITH EITHER LIMESTONE OR SLAG SCREENINGS TO PAVEMENT BASE, UNLESS OTHERWISE SPECIFIED BY THE AUTHORITY HAVING PAVEMENT MAINTENANCE RESPONSIBILITY.
- FOR ABS, MODIFY ODOT SECTION 603.04 TO CARRY THE BEDDING MATERIAL TO A MINIMUM OF SIX INCHES (6") ABOVE THE PIPE.
- FOR PVC, IN ADDITION TO ODOT CLASS "B" BEDDING, THE TRENCH SHALL BE BACKFILLED WITH COMPACTED LIMESTONE SCREENINGS TO A MINIMUM OF SIX INCHES (6") ABOVE THE TOP OF THE PIPE.

- TESTING
- PHOTOGRAPHIC OR TV INSPECTION OF ALL SANITARY SEWERS AND PASSAGE OF A STANDARD INFILTRATION TEST SHALL BE REQUIRED BEFORE THE ACCEPTANCE OF THE SANITARY SEWER BY THE MEDINA COUNTY SANITARY ENGINEERING DEPARTMENT OR ODOT.

## NOTES

- DEFLECTION TESTS WILL BE RUN ON ALL PVC PIPE, NOT LESS THAN 30 DAYS AFTER FINAL FULL BACKFILL HAS BEEN PLACED. NO PIPE SHALL EXCEED A DEFLECTION OF 5%. THESE TESTS SHALL CONSIST OF PULLING A "GO-NO/GO" MANDEREL THROUGH THE LINE. THE CONTRACTOR HAS THE OPTION OF:
  - THE COUNTY PERFORMING SAID WORK (FEE REQUIRED).
  - THE CONTRACTOR PERFORMING THE WORK UNDER COUNTY SUPERVISION.
- MAXIMUM ALLOWABLE LEAKAGE INWARD OR OUTWARD (INFILTRATION OR EXFILTRATION) FOR ANY SANITARY SEWER SECTION TESTED, INCLUDING ALL MANHOLES, IS 200 GALLONS PER INCH OF DIAMETER PER MILE OF PIPE PER DAY. MANHOLES MAY BE TESTED SEPARATELY. THE ABOVE ALLOWABLE LEAKAGE RATE IS EQUIVALENT TO 0.16 GALLONS PER INCH OF DIAMETER PER 100 FEET OF PIPE PER HOUR.
- MANHOLE TOP ELEVATIONS AS INDICATED ON THE PLAN AND PROFILE SHEETS ARE APPROXIMATE AND ARE TO BE USED FOR BIDDING PURPOSES ONLY. ACTUAL TOP ELEVATIONS WILL BE FIELD DETERMINED AT THE TIME OF CONSTRUCTION. NO INCREASE OR DEDUCTION IN BID PRICE WILL BE MADE FOR MANHOLES WHOSE AS-BUILT DEPTHS VARY FROM THOSE SHOWN ON THE PLANS.
- A TAP-IN FEE OF \$9379 PER TAP SHALL BE PAID TO THE MEDINA COUNTY SANITARY DEPARTMENT IN ACCORDANCE WITH SEC. 107.02 OF SPECIFICATIONS.
- PAYMENT FOR ALL OF THE ABOVE WILL BE INCLUDED IN THE CONTRACT UNIT PRICE BID PER LINEAR FOOT OF 8" SANITARY SEWER AS PER PLAN.

### ITEM SPECIAL - ALTERNATE SHELTER HOUSE DESIGN - "SHELTER HOUSE WITH SHINGLED ROOF"

THE CONTRACTOR MAY PROVIDE AN "IRON MOUNTAIN FORGE - PARK SHELTER" (AS MODIFIED BELOW) OR EQUAL AS A SHELTER HOUSE ON THIS PROJECT.

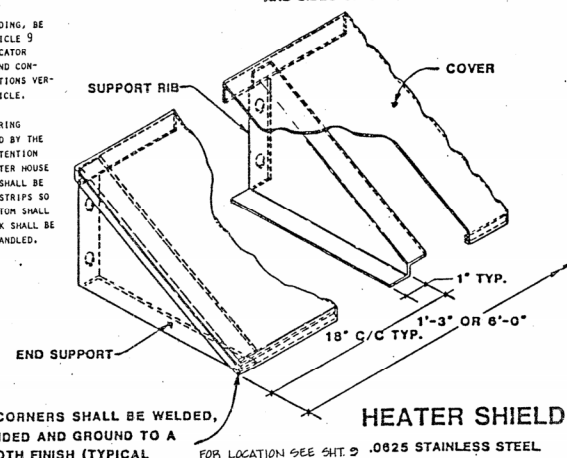
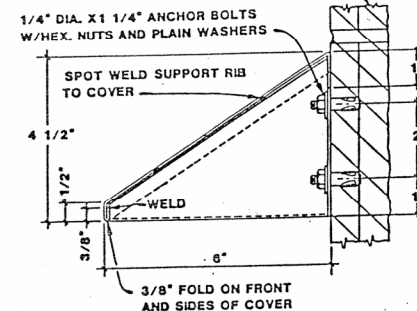
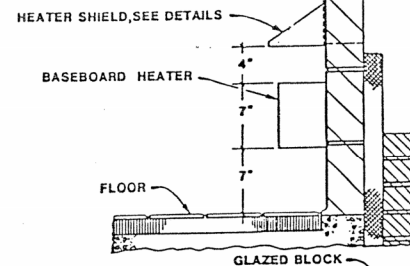
THE SHELTER HOUSE SHALL HAVE A MINIMUM SIZE OF 20' X 26' (ALT 20' X 28') AND SHALL BE MANUFACTURED FROM KILN-DRIED SOUTHERN PINE. THE STRUCTURAL, GLED LAMINATED TIMBER SHALL CONFORM TO THE FOLLOWING SPECIFICATIONS: AITC-100, 117, 177, 200 AND PS-56-73. A CERTIFICATE OF CONFORMANCE SHALL BE FURNISHED AND THE AITC QUALITY MARK SHALL APPEAR ON ALL LAMINATED MEMBERS. THE ADHESIVE SHALL BE WATER-PROOF AND CONFORMING TO ASTM D-2559-70. THE ROOF DECK SHALL BE NOMINAL 2" X 6" AND BTR, SINGLE TONGUE AND GROOVE WITH V-JOINT FACE SIDE AND SHALL BE FACTORY FINISHED WITH A POTLATCH ACRYLIC POLYMER IN EARTH TONE. THE ASPHALT SHINGLE ROOF SHALL CONFORM TO STD. DRW. LA-16.

THE ROOF SYSTEM SHALL, IN ADDITION TO THE MANUFACTURERS LOADING, BE ABLE TO WITHSTAND 90 MPH WIND LOADS IN CONFORMANCE WITH ARTICLE 9 (ORC 4101: 2-9) OF THE OHIO BASIC BUILDING CODE. THE FABRICATOR SHALL FURNISH COMPLETE SHOP DRAWINGS, SHOWING ALL DETAILS AND CONNECTIONS OF THE COLUMNS AND ROOF SYSTEM, AS WELL AS CALCULATIONS VERIFYING THAT THE SYSTEM SATISFIES THE OHIO BUILDING CODE ARTICLE.

ALL MEMBERS SHALL BE INDIVIDUALLY WRAPPED FOR PROTECTION DURING SHIPPING AND STORAGE. THE COLUMNS AND FACIA SHALL BE TREATED BY THE CELLON (R) PROCESS IN ACCORDANCE WITH STD C-28 AWP/A TO A RETENTION OF 0.6 # PER CU. FT. THE CONTRACTOR SHALL PROTECT THE SHELTER HOUSE MATERIALS ON THE JOB SITE. IF STORED TEMPORARILY, MEMBERS SHALL BE PLACED ON BLOCKS WELL OFF THE GROUNDPAID SEPARATED BY WOOD STRIPS SO THAT AIR CAN CIRCULATE AROUND EACH MEMBER. THE TOP AND BOTTOM SHALL BE COVERED WITH MOISTURE-RESISTANT PAPER. ALL ERECTION WORK SHALL BE PERFORMED USING NON-MARKING SLINGS WHEN MEMBERS ARE TO BE HANDLED.

MEDINA COUNTY  
MED-71-22.50 (N.B.)  
IR-71-4(61)224 PART II

F.H.W.A. REGION	STATE	PROJECT	3B
OHIO	OHIO	MED-71-22.50	13
DATE	DATE	DATE	
8/84	8/84	10/84	



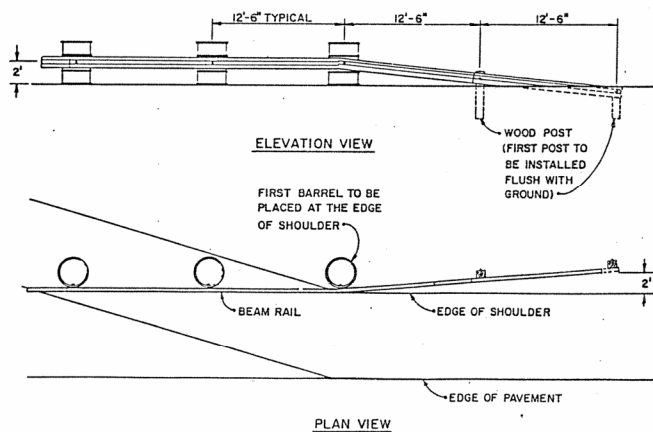
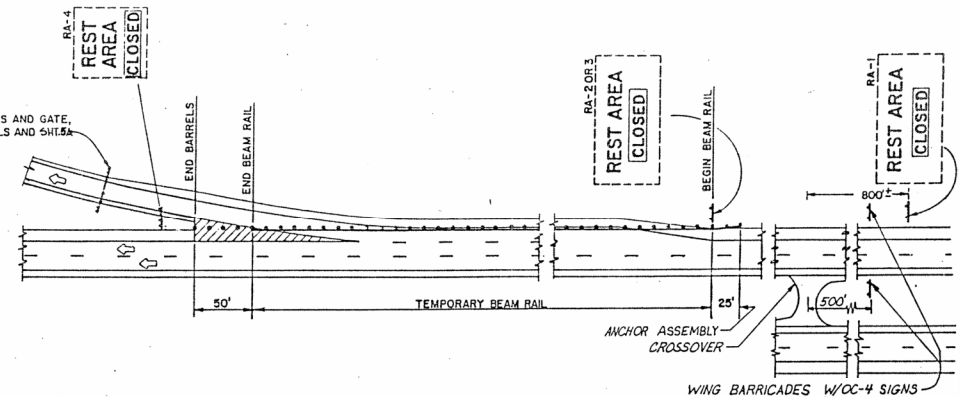
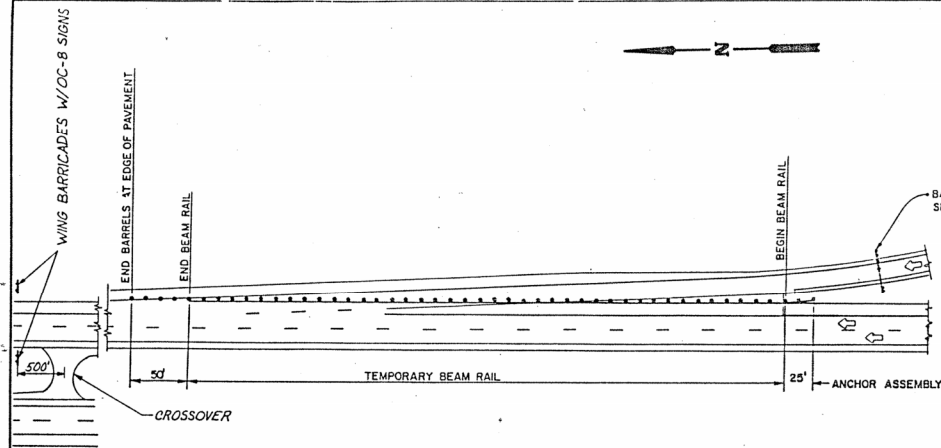
ALL CORNERS SHALL BE WELDED, ROUNDED AND GROUND TO A SMOOTH FINISH (TYPICAL) FOR LOCATION SEE SHT. 9 .0825 STAINLESS STEEL

GENERAL NOTES

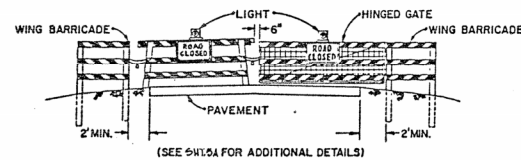


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## GENERAL NOTES



**TEMPORARY ANCHOR ASSEMBLY**

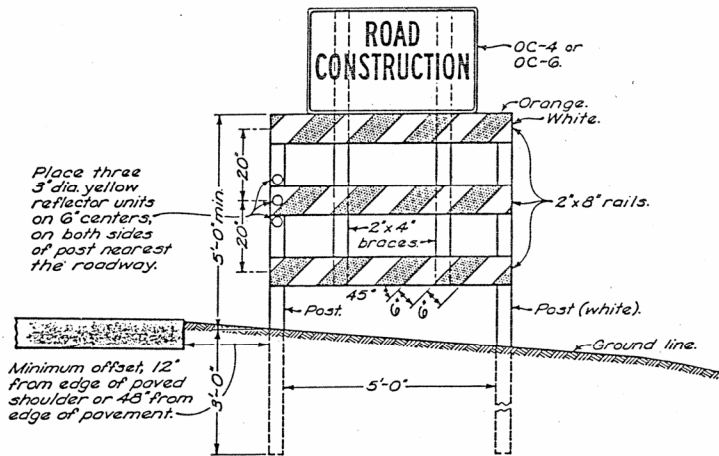
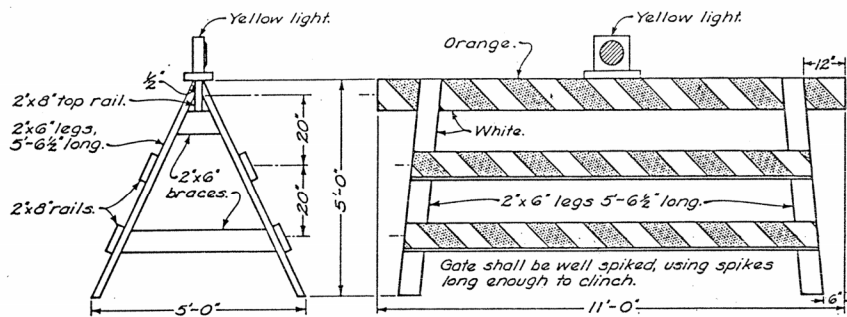


**BARRICADES AND GATE**

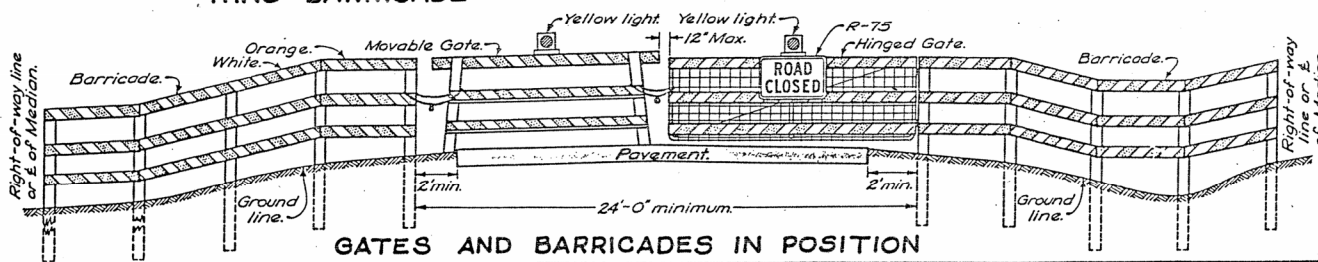
**NOTES:**

1. REST AREA SIGNS (RA-1 THRU RA-4) SHALL HAVE THE ACTION MESSAGE COVERED BY AN OVERLAY BEARING THE LEGEND "CLOSED". THIS PANEL SHALL HAVE A BLACK LEGEND ON A REFLECTORIZED ORANGE BACKGROUND. THE OVERLAY FOR THE RA-1, RA-2 AND RA-3 SIGNS SHALL BE 8' X 1 1/2'. THE OVERLAY FOR THE RA-4 SIGN SHALL BE 4' X 1 1/2'.
2. SUPPLEMENTAL PANELS LOCATED UNDER MAINLINE REST AREA SIGNS SHALL BE REMOVED OR COVERED WHEN THE REST AREA IS CLOSED. (EXAMPLE: TELEPHONE, TOURIST INFO, HANDICAPPED SYMBOL SIGN).
3. TEMPORARY BEAM RAIL, IN ACCORDANCE WITH ODOT CONSTRUCTION AND MATERIAL SPECIFICATION 606.04, SHALL BE USED TO CLOSE THE ACCELERATION AND DECELERATION LANES FOR REST AREA CLOSURES EXCEEDING 7 DAYS. (FOR DETAILS ON ANCHOR ASSEMBLIES AND GUARDRAIL FLARES, SEE TEMPORARY ANCHOR ASSEMBLY DETAIL.) FOR REST AREA CLOSURES OF LESS THAN 7 DAYS, THE DECELERATION AND ACCELERATION LANES SHOULD BE CLOSED WITH REFLECTORIZED DRUMS PLACED 15' CENTER TO CENTER. THE EXISTING SHOULDER WIDTH SHALL BE MAINTAINED AT ALL TIMES. TEMPORARY CONCRETE BARRIER WITH END TERMINALS IN ACCORDANCE WITH MC-94 MAY BE USED AS AN ALTERNATE TO THE TEMPORARY BEAM RAIL AND ANCHOR ASSEMBLY.
4. WHERE REST AREA RAMP LIGHTING EXISTS, IT SHALL BE MAINTAINED IN PROPER CONDITION TO PROVIDE OPTIMUM ILLUMINATION.
5. REST AREA SIGN RA-5 SHALL BE ADDED WITH PROPER MILEAGE SHOWN. DURING CLOSURE THE WORDS "OPEN" AND APPLICABLE MILEAGE SHALL BE ADDED WITH BLACK ON ORANGE OVERLAYS. THE OVERLAY SIZE IS 3 1/2' X 1 1/2'. LOCATION TO BE APPROVED BY THE ENGINEER.
6. GATES AND BARRICADES, IN ACCORDANCE WITH SH-54 SHALL BE ERECTED ACROSS THE EXIT AND ENTRANCE RAMP FOR THE REST AREA.

## MOVABLE GATE



# WING BARRICADE



## NOTES

FED. RD. DIVISION	STATE	PROJECT
5	OHIO	MED.-71-22.50

5A  
13

**BARRICADES** shall be constructed according to details shown. When traffic is maintained during construction, wing barricades shall be used on each shoulder: (1) at both ends of the project, (2) on all interchange entrance ramps or on the cross road preceding the entrance ramp, (3) on all other major approach roads as directed by the Engineer. When the road is closed to traffic, barricades and gates shall be used to effectively close the entire roadway including the median of divided highways. In urban areas and at locations where it is impracticable to extend the barricade to the right-of-way line because of a sidewalk or other obstruction, the ends of the barricade shall be located as directed by the Engineer to effect the desired closing of the highway.

**PAINTING AND REFLECTORIZATION:** All rails of the barricades and gates shall be reflectorized with orange and white reflectorized sheeting in 6" wide alternate stripes which slope downward toward the center line of the road at an angle of 45°. All three rails of the Road Closed barricade shall be striped on the side facing the road. On the wide end of the barricade and all gate rails shall be striped on both sides. All posts, braces, gate legs and any unstriped rails shall be painted white.

*GATES: One gate shall be erected for each traffic lane. Gates shall be chained and padlocked to one another and to adjacent posts of the barricades. Chains shall be 4" stock or larger with welded links.*

A hinged gate may be used and shall be an approved 12 by 4 steel frame farm type, or a type approved by the Engineer. The gate shall be hung on hinge screw hooks, or as otherwise approved. Striping similar to that used on the movable gate shall be accomplished with 1 x 6 lumber or with metal strips fastened to the gate. The gate shall be supported at the center in an approved manner.

**YELLOW LIGHT:** Each gate shall be equipped with a steady burning yellow light, conspicuously visible at all distances up to 1000' under normal atmospheric conditions. The light, operated by battery, electric generator, commercial power or propane gas, shall be in operation at all times between sunset and sunrise during the period the highway is closed.

**SIGNS:** Where the road is closed to traffic by the erection of gates and barricades, a ROAD CLOSED sign (R-75) shall be mounted on the gate as shown. On three-lane pavement, the sign shall be mounted on the middle gate facing traffic.

Where traffic is maintained, a **ROAD CONSTRUCTION TRAFFIC MAINTAINED** sign (OC-4) shall be used on the right shoulder wing barricade on the approaches to major construction or maintenance jobs less than 2 miles in length. A **ROAD CONSTRUCTION NEXT \_\_\_\_\_ MILES** sign (OC-6) shall be used on the right shoulder wing barricade on the approaches to any major construction or maintenance jobs less than 2 miles in length. A **ROAD CONSTRUCTION** sign (OC-5) shall be erected above the right hand wing barricade facing traffic leaving the construction section. The signs on the wing barricades shall be erected above the top rail of the wing barricade on braces, as detailed hereon.

*LUMBER used in the construction of the gates and barricades shall be No. 1 common yellow pine or No. 1 common Douglas fir, surfaced on four sides standard, or other materials approved by the Engineer. All sizes are nominal.*

POSTS shall be sound 4"x4" sawed or 4½" round. Rails of the barricade shall be bolted to the posts with ¾" bolts.