

# NOTES

THE CONTRACTOR SHALL TAKE ADEQUATE PRECAUTIONS TO PREVENT DAMAGE TO PAVEMENT, ELECTRIC, TELEPHONE, WATER, GAS, AND SEWER LINES ON "STATE ROUTE 84" DURING CONSTRUCTION OF THE "CELLULAR WALL". THE COST OF THE PROTECTION SHALL BE INCLUDED IN THE LUMP SUM PRICE BID FOR ITEM 503, COFFERDAMS, CRIBS AND SHEETING.

DETAILS AND DIMENSIONS OF THE WALL SHALL CONFORM TO THOSE MANUFACTURED BY "ARMCO DRAINAGE AND METAL PRODUCTS INC." DESIGN "D", OR AN APPROVED METAL EQUIVALENT.

### SEEDING:

QUANTITIES FOR SEEDING ARE CALCULATED FOR THE SOIL AREAS BETWEEN THE WORK LIMITS AND THE CURB AS SHOWN ON THE CROSS SECTIONS.

### UTILITY ADJUSTMENT:

ANY AND ALL WORK REQUIRED FOR PUBLIC OR PRIVATE UTILITIES WILL BE DONE BY AND AT THE EXPENSE OF THEIR RESPECTIVE OWNERS, UNLESS OTHERWISE NOTED ON THESE PLANS.

### UTILITIES:

THE FOLLOWING IS A LIST OF THE UTILITIES WITHIN OR ADJACENT TO THE CONSTRUCTION LIMITS OF THIS PROJECT.

CLEVELAND ELECTRIC ILLUMINATING COMPANY  
55 PUBLIC SQUARE  
CLEVELAND, OHIO 44101

CITY OF WILLOUGHBY  
SERVICE DEPARTMENT  
MUNICIPAL HALL  
WILLOUGHBY, OHIO 44094

EAST OHIO GAS COMPANY  
1201 EAST 55TH STREET  
CLEVELAND, OHIO 44103

OHIO BELL TELEPHONE COMPANY  
820 W. SUPERIOR AVE.  
CLEVELAND, OHIO 44113

### UNDERGROUND UTILITIES:

THE LOCATIONS OF THE UNDERGROUND UTILITIES SHOWN ON THE PLANS HAVE BEEN OBTAINED BY DILIGENT FIELD CHECKS AND SEARCHES OF AVAILABLE RECORDS. IT IS BELIEVED THAT THEY ARE ESSENTIALLY CORRECT, BUT THE STATE OF OHIO DOES NOT GUARANTEE THEIR ACCURACY OR COMPLETENESS.

### ROUNDING OF CORNERS SHOWN ON CROSS SECTIONS:

THE ROUNDED CORNERS SHOWN ON THE TYPICAL SECTIONS APPLY TO ALL CROSS SECTIONS EVEN THOUGH OTHERWISE SHOWN ON THESE PLANS.

### FIELD OFFICE:

THE CONTRACTOR SHALL PROVIDE A SUITABLE FIELD OFFICE HAVING A MINIMUM OF 150 SQ. FT. OF FLOOR SPACE AND IN ADDITION TO THE REQUIREMENTS OF ITEM 619, HE SHALL PROVIDE AND MAINTAIN SANITARY PROVISIONS PER 107.06 ALL THE ABOVE IS INCLUDED IN THE LUMP SUM PRICE BID FOR ITEM 619, FIELD OFFICE.

### REMOVAL OF TREES AND STUMPS:

NO TREES AND STUMPS SHALL BE REMOVED UNLESS SPECIFICALLY DIRECTED BY THE ENGINEER.

### TRAFFIC MAINTENANCE:

TWO-WAY TRAFFIC IS TO BE MAINTAINED AS PER PLAN AT ALL TIMES EXCEPT THAT (ALTERNATE) ONE-WAY TRAFFIC MOVEMENT WILL BE PERMITTED FOR NOT MORE THAN 25 CONSECUTIVE WORKING DAYS. ANY AND ALL REVISIONS TO THE ABOVE SHALL REQUIRE APPROVAL BY THE ENGINEER AFTER RECEIPT OF A WRITTEN REQUEST FOR A PLAN MODIFICATION FROM THE CONTRACTOR. WHEN ALTERNATE ONE-WAY TRAFFIC IS REQUIRED, IT SHALL NOT COMMENCE BEFORE OR CONTINUE UNTIL THE REQUIRED TRAFFIC CONTROL DEVICES (SIGNS, BARRICADES, FLOODLIGHTS, AND FLAGMEN) ARE IN PLACE. THE CONTRACTOR SHALL ADHERE IN ALL RESPECTS TO THE "OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS, CURRENT EDITION, LATEST REVISION." SIGNS SHALL BE KEPT IN PROPER POSITION, CLEAN, AND LEGIBLE AT ALL TIMES. BARRICADES AND TEMPORARY GUARD RAIL SHALL BE NEATLY CONSTRUCTED AND SHALL NOT APPEAR MAKESHIFT. TWO FLAGMEN, WEARING REFLECTORIZED ORANGE VESTS AND ORANGE CAPS, SHALL BE CLEARLY VISIBLE TO APPROACHING TRAFFIC AT ALL TIMES. SHALL USE TWO-WAY RADIOS FOR COORDINATING THE MOVEMENT OF ONE-LANE TRAFFIC AND TO SAFEGUARD THE MOVEMENT OF VEHICLES FROM PRIVATE DRIVEWAYS WITHIN THE AREA, SHALL USE REFLECTORIZED OR ILLUMINATED SIGN PADDLES AT NIGHT, AND SHALL OCCUPY FLAGMAN STATIONS THAT ARE ADEQUATELY ILLUMINATED WITH TEMPORARY FLOODLIGHTS. DURING THE PAVEMENT RECONSTRUCTION, THE TEMPORARY GUARD RAIL SHOWN ON THE PLANS SHALL BE RELOCATED TO THE NORTH TO PROVIDE FOR PAVEMENT CONSTRUCTION AND TO ALLOW FOR ONE TRAFFIC LANE OF NOT LESS THAN 12 FEET. THE PAYMENT FOR ALL ITEMS ABOVE SHALL BE INCLUDED IN THE LUMP SUM PRICE FOR ITEM 614 MAINTAINING TRAFFIC, INCLUDING MAINTENANCE AND OPERATION AS REQUIRED OF ANY FLASHING DEVICES, TEMPORARY GUARD RAIL, TEMPORARY STRIPING, FLOODLIGHTS, TWO-WAY RADIO, AND ANY AND ALL OTHER TRAFFIC CONTROL EQUIPMENT. THE CONTRACTOR SHALL, LIKEWISE MAINTAIN THE PAVEMENT SURFACE USED BY THROUGH TRAFFIC SO THAT IT IS SMOOTH AND FREE FROM RUTS OR ANY OTHER OBSTACLES AS SOON AS NOTIFIED BY THE ENGINEER.

QUANTITY CALCULATIONS  
BY: J.A.A. DATE 4/2/75  
CHKD: D.C.D. DATE 4/2/75  
COLPETZER - WOODS CONSULTANTS

FED. RD. DIVISION	STATE	PROJECT	FISCAL YEAR
5	OHIO	STATE	

LAKE COUNTY  
LAK. 84-5.28

3  
12

# GENERAL SUMMARY

ITEM	SHEET NUMBER						ITEM	QUANT.	UNIT	DESCRIPTION
	2	7	6	5	4	3				
201							201	LUMP	LUMP	CLEARING AND GRUBBING
202							202	LUMP	LUMP	STRUCTURE REMOVED (EXISTING BIN TYPE RETAINING WALL)
202							202	331	LIN. FT.	CURB REMOVED
202							202	298	SQ. YDS.	PAVEMENT REMOVED
202							202	3	EACH	CATCH BASIN REMOVED
202							202	247	LIN. FT.	PIPE REMOVED, 24" AND UNDER
202							202	354	LIN. FT.	GUARD RAIL REMOVED
203							203	877	CU. YDS.	EXCAVATION INCLUDING EMBANKMENT CONSTRUCTION
203							203	316	SQ. YDS.	SUBGRADE COMPACTION
305							305	298	SQ. YDS.	PORTLAND CEMENT CONCRETE BASE
310							310	61	CU. YDS.	SUBBASE, GRADING "A"
402							402	12	CU. YDS.	ASPHALT CONCRETE AC-20
404							404	12	CU. YDS.	ASPHALT CONCRETE AC-20
407							407	30	GALS.	TACK COAT, 702.04, SS-1, 55-1h, MS-2 OR RS-1, OR 702.02, RC-250
407							407	1.1	TONS	COVER AGGREGATE
503							LUMP 503	LUMP	LUMP	COFFERDAMS, CRIBS AND SHEETING
518							518	102	LIN. FT.	6"-707.01 TYPE III PIPE
518							518	4	LIN. FT.	6"-707.01 PIPE, INCLUDING SPECIALS
518							518	25	CU. YDS.	POROUS BACKFILL
601							601	3.7	CU. YDS.	ROCK CHANNEL PROTECTION TYPE "B" WITH BEDDING AS PER PLAN
602							602	8.64	CU. YDS.	CONCRETE MASONRY
603							603	20	LIN. FT.	12" CONDUIT TYPE "C" 706.08
603							603	154	LIN. FT.	15" CONDUIT TYPE "F"
603							603	107	LIN. FT.	15" CONDUIT TYPE "F" ENCASED, AS PER PLAN
604							604	1	EACH	STANDARD No. 1 MANHOLE
604							604	1	EACH	STANDARD No. 2-A-6 PAVED SHOULDER INLET
604							604	1	EACH	STANDARD No. 3 CATCH BASIN
605							605	265	LIN. FT.	6" SHALLOW PIPE UNDERDRAIN, 707.01 TYPE III
606							606	354	LIN. FT.	GUARD RAIL TYPE 5
609							609	331	LIN. FT.	CURB TYPE 2B
610							610	2307	SQ. FT.	METAL CELLULAR RETAINING WALL
659							659	1392	SQ. YDS.	SEEDING AND MULCHING
659							659	0.13	TONS	COMMERCIAL FERTILIZER (12-12-12)
614							LUMP 614	LUMP	LUMP	MAINTAINING TRAFFIC
619							LUMP 619	LUMP	LUMP	FIELD OFFICE
623							623	LUMP	LUMP	CONSTRUCTION LAYOUT STAKES