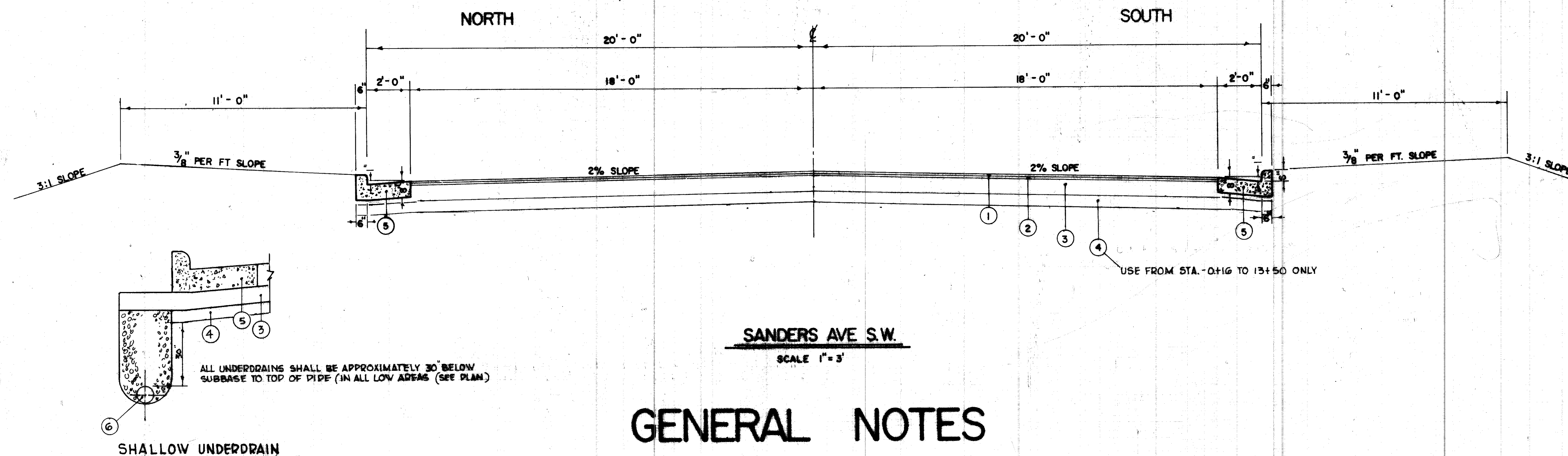


TYPICAL SECTIONS



GENERAL NOTES

REFERENCE

ALL REFERENCE TO ITEM AND SECTION NUMBERS APPEARING IN THESE PLANS SHALL BE CONSIDERED TO READ ITEM AND SECTION NUMBERS OF THE STATE OF OHIO: DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND MATERIAL SPECIFICATIONS IN FORCE ON JANUARY 1, 1979 CITY OF MASSILLON STANDARD CURB AND GUTTER, CATCH BASINS AND MANHOLES SHALL BE USED.

UNDERGROUND UTILITIES

THE LOCATION OF THE UNDERGROUND UTILITIES SHOWN ON THE PLANS HAVE BEEN OBTAINED BY DILIGENT FIELD CHECK AND SEARCHES OF AVAILABLE RECORDS. IT IS BELIEVED THAT THEY ARE ESSENTIALLY CORRECT, BUT THE CITY OF MASSILLON DOES NOT GUARANTEE THEIR ACCURACY OR COMPLETENESS APPROXIMATE DEPTH OF UTILITIES ARE:

(OHIO WATER SERVICE CO. VARIES 4 TO 5 FT. COVER)
(EAST OHIO GAS CO. VARIES 2 1/2 TO 3 FT. COVER)

LIST OF AFFECTED UTILITIES

THE EAST OHIO GAS CO.
1717 EAST NINTH ST.
CLEVELAND, OHIO 44114

OHIO BELL TELEPHONE CO.
832 MCKINLEY AVE. N.W.
ROOM 01
CANTON, OHIO 44703

OHIO EDISON COMPANY
48 1ST STREET N.E.
MASSILLON, OHIO 44646

OHIO WATER SERVICE CO.
123 THIRD ST. S.E.
MASSILLON, OHIO 44646

MASSILLON CABLE T.V.
814 CABLE CT. N.W.
MASSILLON, OHIO 44646

ESTIMATED QUANTITIES

SPECIFIC LOCATIONS AND USAGE OF ESTIMATED QUANTITIES SET UP ON THIS PLAN TO BE USED AS DIRECTED BY THE ENGINEER. SHALL BE MADE A MATTER OF RECORD BY INCORPORATION INTO THE FINAL CHANGE OR GOVERNING COMPLETION OF THIS PROJECT. ESTIMATED QUANTITIES OF MATERIAL SHALL NOT BE ORDERED FOR DELIVERY TO THE PROJECT UNLESS AUTHORIZED BY THE ENGINEER.

CENTERLINE CONTROL

THE CITY OF MASSILLON WILL FURNISH CENTERLINE CONTROL AND CONSTRUCTION STAKES. STAKES WILL BE SET ONE TIME ONLY, STAKES THAT ARE DISTURBED OR DESTROYED WILL BE REPLACED BY THE CONTRACTOR, AT HIS OWN EXPENSE.

REMOVAL OF EXISTING PIPE

THE REMOVAL OF ALL EXISTING PIPE DRAINS WHICH WOULD NORMALLY BE REMOVED IN THE VARIOUS EXCAVATION ITEMS SHALL BE INCLUDED FOR PAYMENT IN THE UNIT PRICES, BID FOR THE RESPECTIVE EXCAVATION ITEM UNLESS OTHERWISE SHOWN IN THE PLANS.

CONNECTION TO EXISTING PIPE

WHERE THE PLANS PROVIDE FOR PROPOSED CONDUIT TO BE CONNECTED TO OR TO CROSS EITHER OVER OR UNDER AN EXISTING SEWER, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE THE EXISTING PIPE BOTH AS TO LINE AND GRADE BEFORE HE STARTS TO LAY THE PROPOSED CONDUIT. PAYMENT FOR ALL OPERATIONS DESCRIBED ABOVE SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE PERTINENT 605 CONDUIT ITEMS.

OLD FOUNDATIONS

IF OLD FOUNDATIONS, CISTERNS OR WELLS OR ENCOUNTERED DURING EXCAVATION OR GRUBBING, THE COST TO REMOVE SUCH SHALL BE INCLUDED IN THE COST OF CLEANING AND GRUBBING. IF ANY EXISTING FILLS ARE ENCOUNTERED, THEY SHALL BE RECOMPACTED AND INCLUDED IN THE EMBANKMENT ITEM.

SCHEDULE

THE CONTRACTOR SHALL SUBMIT TO THE CITY ENGINEER A TENTATIVE SCHEDULE AS TO HOW HE PLANS TO PROCEED WITH THE WORK REQUIRED UNDER THIS CONTRACT INCLUDING SEQUENCE AND TENTATIVE DATE AS TO COMPLETION. IT IS OF THE UTMOST IMPORTANCE THAT THE CONTRACTOR CONCENTRATE HIS ENDEAVORS TO FINISH THE PORTION OF THE ROAD TO THE GEM TECK AS SOON AS POSSIBLE.

REMOVAL OF TREES AND STUMPS

ALL TREES AND STUMPS SPECIFICALLY MARKED FOR REMOVE WITHIN THE CONSTRUCTION LIMITS OF THIS PROJECT SHALL BE REMOVED UNDER THE LUMP SUM PRICE BID FOR ITEM 201 CLEARING AND GRUBBING (UNDER 12'). THE FOLLOWING IS AN APPROXIMATE ESTIMATE OF THE NUMBER OF TREES AND STUMPS TO BE REMOVED.

SIZES 12" & OVER NO TREES 20 NO STUMPS 20

THE ABOVE ESTIMATE IS APPROXIMATE AND THE CITY RESERVES THE RIGHT TO ORDER THE REMOVAL OF ADDITIONAL TREES OR STUMPS OUTSIDE OF THE LIMITS OF CONSTRUCTION BUT WITHIN RIGHT-OF-WAY AND/OR EASEMENT LINES. PAYMENT FOR THE REMOVAL OF THESE ADDITIONAL TREES OR STUMPS SHALL BE INCLUDED IN THE LUMP SUM PRICE BID FOR ITEM 201 CLEARING AND GRUBBING.

ITEM 605 SHALLOW UNDERDRAINS

UNDERDRAINS SHALL BE PLACED AS DIRECTED BY THE ENGINEER. AN ESTIMATED QUANTITY OF 2000 L.F. OF UNDERDRAIN HAS BEEN PROVIDED IN THE GENERAL SUMMARY FOR THESE ITEMS.

REVIEW OF DRAINAGE FACILITIES

BEFORE ANY WORK IS STARTED ON THE PROJECT AND AGAIN BEFORE FINAL ACCEPTANCE BY THE CITY REPRESENTATIVES OF THE CITY AND THE CONTRACTOR SHALL MAKE AN INSPECTION OF EXISTING SEWERS WITHIN THE WORK LIMITS WHICH ARE TO REMAIN IN SERVICE AND WHICH MAY BE AFFECTED BY THE WORK. THE CONDITION OF THE EXISTING CONDUITS AND THEIR APPURTENANCES SHALL BE DETERMINED FROM FIELD OBSERVATIONS. RECORDS OF THE INSPECTIONS SHALL BE KEPT IN WRITING BY THE CITY.

ALL NEW CONDUITS, INLETS, CATCH BASINS, MANHOLES AND SUMP BASINS CONSTRUCTED AS A PART OF THIS PROJECT SHALL BE FREE OF ALL FOREIGN MATTER AND IN A CLEAN CONDITION BEFORE THE PROJECT WILL BE ACCEPTED BY THE CITY. ALL EXISTING SEWERS INSPECTED INITIALLY BY THE ABOVE MENTIONED PARTIES SHALL BE MAINTAINED AND LEFT IN A CONDITION REASONABLY COMPARABLE TO THAT DETERMINED BY THE ORIGINAL INSPECTION. ANY CHANGE IN THE CONDITION RESULTING FROM THE CONTRACTOR'S OPERATIONS SHALL BE CORRECTED BY THE CONTRACTOR TO THE SATISFACTION OF THE ENGINEER. PAYMENT FOR ALL OPERATIONS DESCRIBED ABOVE SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE PERTINENT 605 CONDUIT ITEMS OF THIS CONTRACT.

COOPERATION WITH UTILITY COMPANIES

THE CONTRACTOR IS ADVISED THAT THROUGHOUT THESE PLANS THE UTILITY COMPANIES HAVE BEEN CALLED UPON TO PERFORM NECESSARY ADJUSTMENT, RELOCATIONS AND INSTALLATION OF PUBLIC OR PRIVATE UTILITY FIXTURES, PIPE LINES AND OTHER APPURTENANCES WITHIN OR ADJACENT TO THE LIMITS OF CONSTRUCTION. THE CONTRACTOR SHALL COOPERATE WITH THE UTILITY COMPANIES IN ACCORDANCE WITH 105.06 TO ARRANGE A MUTUALLY ACCEPTABLE WORK SCHEDULE, SUBJECT TO THE APPROVAL OF THE ENGINEER. COMPENSATION FOR THE ABOVE COOPERATION SHALL BE INCIDENTAL TO THE VARIOUS PAY ITEMS INVOLVED WITHIN THE PROJECT.

INTERPRETATION OF NOTES AND DETAILS

WHEN CONFLICT ARISES OVER THE INTERPRETATION OF NOTES AND DETAILS, THE NOTES AND DETAILS IN THE DRAWINGS SHALL BE GIVEN PREFERENCE OVER THE GENERAL PROVISIONS AND SPECIFICATIONS THAT APPEAR IN THE CONTRACT.

SUBGRADING

FROM STA. -0+16 TO STA. 13+150 17" UNDERCUT AND FROM STA. 13+50 TO STA. 21+00 11" UNDERCUT AND FROM STA. -0+16 TO STA. 12+50 PLACE 2" 304 ON 6" 310 24" WIDE FOR TEMPORARY ROAD TO GEM TECK

DATE OF COMPLETION

DATE SET FOR COMPLETION, JAN. 7, 1980, OR 90 CALENDAR DAYS FROM DATE OF AWARDING CONTRACT BY THE CITY'S BOARD OF CONTROL, WHICHEVER IS THE LATER.

CALCULATIONS

ITEM 304 1200' x 24" x 0.1047' = 3000 C.U.F.T. 3000 C.U.F.T. = 187.6 C.Y.
TOTAL 304 = 187.6 C.Y.
ITEM 310 1200' x 24" x 0.20' = 5760 C.U.F.T. 5760 C.U.F.T. = 362.7 C.Y.
TOTAL ITEM 310 = 362.7 C.Y.

ITEM 305 EXCAVATION AND EMBANKMENT

	CUT	FILL
SH. 7	5717.28	149.66
SH. 8	5621.68	140.6
SH. 9	114.52	6216.64
SH. 10	1040.96	4694.64
SH. 11	71.20	767.96

CORR. FOR AVERAGE (17'-0" to 15'-0" 15'-0" to 13'-0" 13'-0" to 11'-0" 11'-0" to 9'-0" 9'-0" to 7'-0" 7'-0" to 5'-0" 5'-0" to 3'-0" 3'-0" to 1'-0" 1'-0" to 0'-0")
+ 2,559.6
13,124.8
15,124 C.Y.
- 1,701
11,423 C.Y.

TOP SOIL CORR. 11,423 C.Y.
EXCAV. & EMBANKMENT MATERIALS 11,423 C.Y.
TOTAL 11,423 C.Y.
11,423 C.Y.

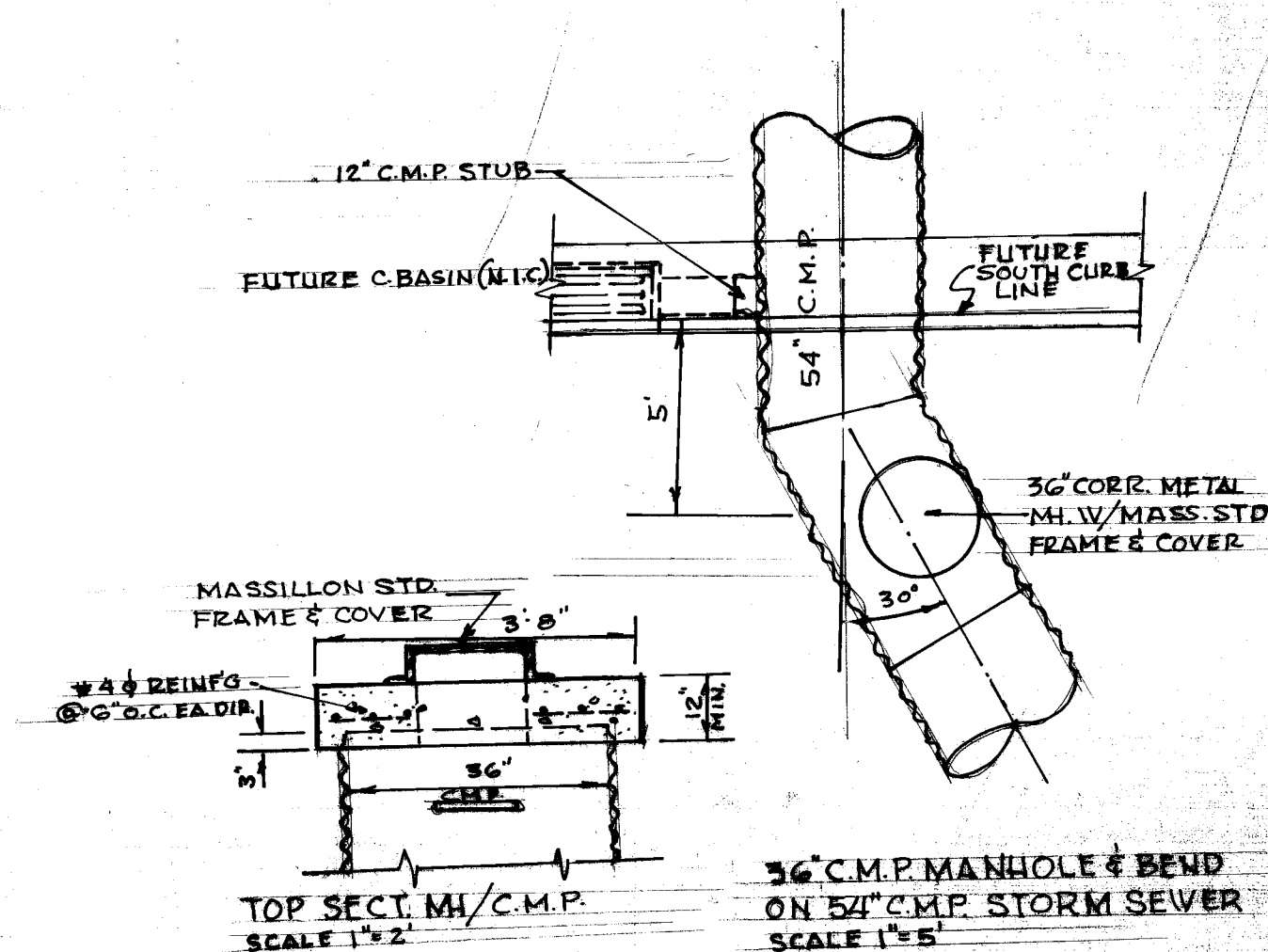
SEE P-308 FOR COVER SHEET & BALANCE OF TRACINGS.

FINAL SURVEY
DATE
BY
SURVEYED
PLANNED
TEMPLATE
NO.
AREAS CHECKED

ORIGINAL SURVEY
DATE
BY
SURVEYED
PLANNED
TEMPLATE
NO.
AREAS CHECKED

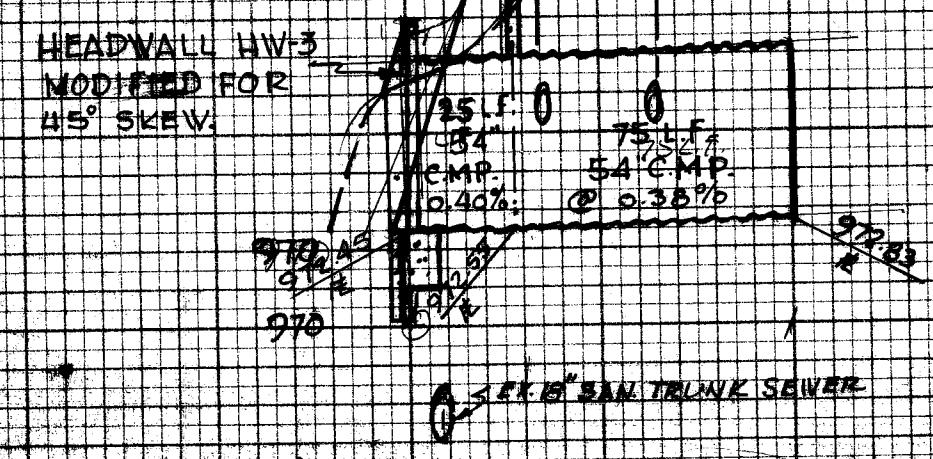
SEWERS

STATION	FROM	TO	SIDE	603 36" RCP CLASS III PIPE L.F.	602 REINFD CONC HEAD WALLS C.V.	604 EX MANHOLE RECONSTR TO GRADE EA.	604 EX MANHOLE ADD'D TO GRADE EA.	603 21" R.C.P. CL. PIPE L.F.	603 18" R.C.P. CL. PIPE L.F.	603 15" R.C.P. CL. PIPE L.F.	604 TYPE "A" CATCH BASIN EA.	603 54" C.M.P. COR. METAL PIPE L.F.
1-S	13+00	15+30	RT.	30								
	16+45	20+13	RT-LT									
4-S	15+08	16+45	RT.			1						
5-S	16+45	18+34	RT.			1						
6-S	18+34	20+62	RT.			1						
7-S	20+62	20+87	RT.									
	20+87	20+19	RT-LT									
10-S	20+19	21+04	LT.		2.2				100			
11-S	21+04	14+44	LT.		10.8				100			100
12-S	17+97	17+97	LT-RT	30	13.0	3	1		100			100
TOTAL												



DATA
Δ = 28° 30' 00"
T = 102.00'
C = 197.95'
L = 200.00'

REINFD CONC BOX CULVERT, RIPRAP GUARD RAILS, SANITARY SEWER, LATERALS, STORM SEWER STA 20+79 TO 20+87 (9TH ST), CONC CURB & GUTTER, 54" STIM SEWER NORTH OF 20' NORTH OF SANDERS AVE, NOT PART OF THIS CONTRACT.



CITY OF MASSILLON, OHIO
SANDERS AVE S.V. STREET IMPROVEMENT
DR BY RONNIE MCPHERSON
CITY ENG ROBERT VAGONER
SCALE 1"=50' HORIZ 1"=5' VERT
REVISIONS
DATE 11/11/10
DESCRIPTION CHANGE SHEET 1 PROFILE
DEPT OF PUBLIC SERVICE
ENGINEERING DIVISION
FILE NO. P-307 ACC NO. 2867

MATCH LINE

STA 12+85.00

DISPOSAL AREA
FOR SOIL BRUSH
FROM STA 13+90 TO 2+100
DO NOT GRADE THIS AREA
AREA MUST DRAIN UPON COMPLETION

AREA HAS BEEN
REGRADED BY OTHERS

A = 14'5.00'
R = 402.00'
L = 179.95'

AREA C

TOP SOIL STOCKPILE AREA
FROM STA 13+90 TO 2+100

KITCHEN COOK

R & W SCREW

MIDWESTERN IND. INC.

PROPOSED PARK LOT

PROPOSED BLDG

BORROW AREA "D"
FOR EMBANKMENT BETW STATIONS 13+90 & 2+100

BEFORE GRADING INSTALL
5" 15' 5" C.M.P. 13+90.2
TOP BANK, STE. CUT 2

9TH ST

11TH ST

M.S.W.

BORROW AREA

ROADWAY EXCAVATION
CUT = 108.6 CY
FILL = 158.4 CY
UNDERCUT = 97.48 CY
TOTAL FILL = 12,729 CY
12,560 CY CUT FROM BORROW AREA

FINEPROCK INDUSTRIAL PARK
SANDERS AVE. S.W.
MASSILLON, STARK CO., OHIO
GRADING PLAN
SCALE 1"=50'