

UTILITIES

LISTED BELOW ARE ALL UTILITIES LOCATED WITHIN THE PROJECT CONSTRUCTION LIMITS TOGETHER WITH THEIR RESPECTIVE OWNERS:

AEP-AMERICAN ELECTRIC POWER 2622 SR 100 TIFFIN, OH 44883 419.209.5583	SANDUSKY CO. ENGINEER 2500 W. STATE ST. FREMONT, OHIO 43420 419.334.9731
A T & T 130 N. ERIE ST. TOLEDO, OHIO 43624 419.245.7304	SANDUSKY CO. SANITARY ENGINEER 2100 COUNTRYSIDE PLACE FREMONT, OHIO 43420 419.332.9967
COLUMBIA GAS OF OHIO, INC. 2901 E. MANHATTAN BLVD. TOLEDO, OHIO 43611 419.539.6066	CITY OF FREMONT ATTN: TUCKER FREDRICKSEN 323 S. FRONT ST. FREMONT, OHIO 43420 419.334.8963
TOLEDO EDISON 6099 ANGOLA RD. HOLLAND, OHIO 43528 419.249.5218	

WORK LIMITS

THE WORK LIMITS SHOWN ON THESE PLANS ARE FOR PHYSICAL CONSTRUCTION ONLY. PROVIDE THE INSTALLATION AND OPERATION OF ALL WORK ZONE TRAFFIC CONTROL AND WORK ZONE TRAFFIC CONTROL DEVICES REQUIRED BY THESE PLANS WHETHER INSIDE OR OUTSIDE THESE WORK LIMITS.

PROFILE AND ALIGNMENT

PLACE THE PROPOSED PAVEMENT TO FOLLOW THE ALIGNMENT AND PROFILE OF THE EXISTING PAVEMENT.

PLANED SURFACES

NO PLANED SURFACES SHALL BE OPEN TO THE PUBLIC FOR MORE THAN 7 DAYS. IF THE PLANED SURFACE IS OPEN FOR MORE THAN 7 DAYS, THEN IT IS THE CONTRACTOR'S RESPONSIBILITY TO REPAIR THE PAVEMENT FAILURES THAT OCCURRED AFTER THE 7 DAYS.

RETENTION OF ASPHALT MILLINGS

ALL GRINDINGS INSIDE THE CORPORATION LIMITS OF THE CITY OF FREMONT WHICH HAVE BEEN OBTAINED FROM PAVEMENT PLANING MILLINGS, SHALL BE TAKEN TO ONE OF THE FOLLOWING LOCATIONS:

UNIVERSAL FARMS
219 STAHL ROAD
FREMONT, OHIO 43420

MHC RECYCLING, LLC
125 PAULA DRIVE
FREMONT, OHIO 43420

IF THE ABOVE LOCATIONS ARE UNAVAILABLE TO ACCEPT GRINDINGS, PLEASE CONTACT THE CITY OF FREMONT ENGINEER, TUCKER FREDRICKSEN AT 419-334-8963.

ITEMS ADJUSTED TO GRADE

THE FOLLOWING ESTIMATED QUANTITIES ARE TO BE USED FOR ADJUSTMENTS REQUIRED FOR THE FOLLOWING ITEMS, AS DIRECTED BY THE ENGINEER.

ITEM 638 - VALVE BOX ADJUSTED TO GRADE			
LOCATION	ROUTE	PLAN SPLIT CODE	EACH
SAN	53	02/NHS/05	2
TOTAL CARRIED TO GENERAL SUMMARY			2

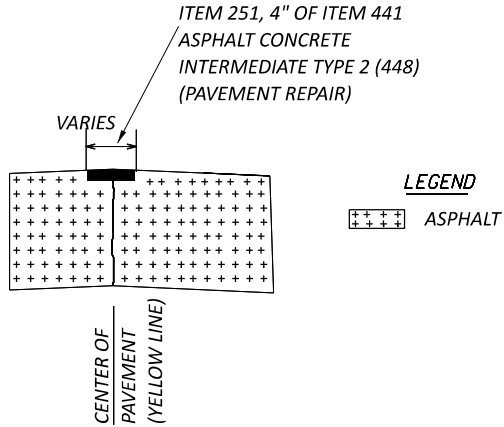
ITEM 611-MANHOLE ADJUSTED TO GRADE			
LOCATION	ROUTE	PLAN SPLIT CODE	EACH
SAN	SR 53	02/NHS/05	1
TOTAL CARRIED TO GENERAL SUMMARY			1

ITEM 611 - CATCH BASIN ADJUSTED TO GRADE			
LOCATION	ROUTE	PLAN SPLIT CODE	EACH
SAN	SR 53	02/NHS/05	1
TOTAL CARRIED TO GENERAL SUMMARY			1

ITEM 251 - PARTIAL DEPTH PAVEMENT REPAIR (441):

ALL EXISTING PAVEMENT AREAS WHICH WILL BE IN CONTACT WITH THE PAVEMENT REPAIR SHALL BE COATED WITH PG GRADE LIQUID ASPHALT (SIDES AND BOTTOM) AT AN APPLICATION RATE OF 0.25 GAL. PER SY. PAYMENT SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 251 - PARTIAL DEPTH PAVEMENT REPAIR.

THE FOLLOWING ESTIMATED QUANTITY FOR 4" PAVEMENT REPAIR AS DIRECTED BY THE ENGINEER.



NOTE: THE ENGINEER SHALL FIELD VERIFY ALL LOCATIONS PRIOR TO THE BEGINNING OF WORK. ANY ADJUSTMENTS NECESSARY SHALL BE AS DIRECTED BY THE ENGINEER.

SR 53 (PLAN SPLIT 03/NHS/05)	130 CY
SR 53 (PLAN SPLIT 01/NHS/05)	100 CY
TOTAL = 230 CY	

SURVEYING PARAMETERS

PRIMARY PROJECT CONTROL MONUMENTS GOVERN ALL POSITIONING ON ODOT PROJECTS.

USE THE FOLLOWING PROJECT CONTROL, VERTICAL POSITIONING, AND HORIZONTAL POSITIONING PARAMETERS FOR ALL SURVEYING:

PROJECT CONTROL

POSITIONING METHOD: ODOT VRS
MONUMENT TYPE: TYPE B

VERTICAL POSITIONING

ORTHOMETRIC HEIGHT DATUM: NAVD88
GEOID: GEOID12B

HORIZONTAL POSITIONING

REFERENCE FRAME: NAD83 (2011)
ELLIPSOID: GRS80
MAP PROJECTION: LAMBERT CONFORMAL CONIC
COORDINATE SYSTEM: OHIO STATE PLANE NORTH
COMBINED SCALE FACTOR: 1.000000 (GRID)
ORIGIN OF COORDINATE SYSTEM: 0,0,0

USE THE POSITIONING METHODS AND MONUMENT TYPE USED IN THE ORIGINAL SURVEY TO RESTORE ALL MONUMENTS RELATED TO PRIMARY PROJECT CONTROL THAT ARE DAMAGED OR DESTROYED BY CONSTRUCTION ACTIVITIES. RESTORE THE DAMAGED OR DESTROYED MONUMENTS IN ACCORDANCE WITH CMS 623.

UNITS ARE IN U.S. SURVEY FEET.

ITEM 632, DETECTOR LOOP, AS PER PLAN (ALTERNATE 1)

ALL NEW LOOP INSTALLATIONS SHALL BE INSTALLED IN THE INTERMEDIATE COURSE BELOW THE SURFACE COURSE. THE LISTED ITEM SHALL BE USED AS DIRECTED BY THE ENGINEER, MAY VARY IN LENGTH AND DETAIL. THE CONTRACTOR SHALL CONTACT THE PROJECT ENGINEER, AS WELL AS THE DISTRICT 2 TRAFFIC MAINTENANCE ENGINEER, DYLAN FOUKES, AT 419-373-4303, 10 DAYS PRIOR TO INSTALLATION. ODOT SHALL DETERMINE, BY WAY OF FIELD INSPECTION, THE LOCATION AND FINAL QUANTITY OF DETECTOR LOOPS THAT HAVE BEEN DAMAGED AND NEED REPLACEMENT. ODOT SHALL FIELD LOCATE WITH THE CONTRACTOR THE PROPOSED DETECTOR LOOP PLACEMENTS, THE NECESSARY PULL BOXES AND LOOP LEAD-IN CABLES (ODOT SIGNAL).

ALL LOOPS SHALL CONFORM TO SCD TC-82.10 AND THE FOLLOWING:

FOR STOP BAR DETECTION: TWO DETECTOR LOOPS ARE REQUIRED FOR EACH LANE. THE FRONT LOOP SHALL BE A POWERHEAD LOOP 30' IN LENGTH THAT BEGINS 5' IN FRONT OF THE STOP LINE, AND THE SECOND BACK LOOP, LOCATED 5' BEHIND THE FRONT LOOP, SHALL BE A RECTANGULAR LOOP 30' IN LENGTH TO ENSURE AN ADEQUATE DETECTION ZONE.

FOR DILEMMA ZONE DETECTION: LOOPS SHALL BE THE ANGULAR DESIGN DETECTION (A.D.D.) STYLE.

PAYMENT FOR THIS ITEM INCLUDES THE SPLICE CONNECTION IN THE PULL BOX



QUANTITY CARRIED TO THE GENERAL SUMMARY.

809 STOP-LINE RADAR DETECTION, AS PER PLAN (ALTERNATE 2)

THIS ITEM OF WORK SHALL CONSIST OF FURNISHING AND INSTALLING A WAVETRONIX SMARTSENSOR MATRIX DETECTION UNIT. THE DETECTION UNIT SHALL INCLUDE THE FOLLOWING:

- POWER SHALL BE PROVIDED FROM THE TRAFFIC CABINET.
- ALL REQUIRED INPUTS CARDS SHALL BE INCLUDED IN THE TRAFFIC CABINET AND SHALL BE COMPATIBLE WITH CALTRANS, NEMA TS1 AND NEMA TS2 DETECTOR RACKS. THE CARDS SHALL PROVIDE TRUE PRESENCE DETECTOR CALLS OR CONTACT CLOSURE TO THE TRAFFIC CONTROLLER.
- THE UNIT SHALL BE MOUNTED DIRECTLY TO A POLE OR MAST ARM, AS RECOMMENDED BY THE MANUFACTURER. CABLE(S) SHALL BE PROVIDED AS REQUIRED AND RECOMMENDED BY THE MANUFACTURER.
- SURGE PROTECTION DEVICES, AS RECOMMENDED BY THE MANUFACTURER SHALL BE INCLUDED BOTH AT THE POLE WHERE THE UNIT IS LOCATED TO PROTECT THE UNIT AND IN THE TRAFFIC CABINET TO PROTECT THE CABINET ELECTRONICS.
- THE MANUFACTURER'S REPRESENTATIVE SHALL BE ON SITE DURING INSTALLATION AND TESTING AND SHALL PROVIDE ONSITE TRAINING ON THE SETUP, OPERATION AND MAINTENANCE OF THE UNIT.
- A SERIAL TO ETHERNET COMMUNICATIONS MODULE AND ETHERNET CABLE (MIN. 7 FEET)
- THE POWER SUPPLY AND COMMUNICATION MODULES SHALL BE SECURED TO A SINGLE PANEL THAT CAN BE MOUNTED INTERIOR TO THE TRAFFIC CABINET. THE PANEL SHALL INCLUDE MODULAR-PLUG STYLE CONNECTIONS FOR UP TO FOUR (4) SENSOR CABLES. ADDITIONAL SENSORS MAY BE HARD-WIRED TO THE COMMUNICATION MODULES, AS NECESSARY.
- THE CONTRACTOR SHALL INSTALL THE RADAR DETECTION PRIOR TO MILLING/DISABLING THE EXISTING LOOPS.
- THE INSTALLATION SHALL INCLUDE ALL CONTROLLER PROGRAMMING FOR COMPLETE INSTALLATION, WHICH INCLUDES MODIFICATIONS FOR REMOVAL OF EXISTING DETECTION.

PAYMENT FOR ITEM 809 STOP-LINE RADAR DETECTION, AS PER PLAN SHALL BE MADE AT THE CONTRACT UNIT PRICE FOR EACH UNIT, COMPLETE AND IN PLACE INCLUDING ALL REQUIRED CABINET HARDWARE, MOUNTING BRACKETS, CABLES, CONDUIT, CONNECTIONS TESTED AND ACCEPTED, AND UNLASH & RELASH OF SPAN WIRE LOCATIONS, AS NECESSARY.

ITEM 809, STOP-LINE RADAR DETECTION, AS PER PLAN (UNITS) 4 EA
QUANTITY CARRIED TO THE GENERAL SUMMARY.

MISCELLANEOUS QUANTITIES CARRIED TO GENERAL SUMMARY

THE FOLLOWING QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY FOR ADDITIONAL ITEMS TO BE REMOVED NEAR OR AT THE INTERSECTIONS OF HAGERTY DRIVE AND SEAN DRIVE:

ITEM 202 - PAVEMENT REMOVED	6 SQ. YD.
ITEM 202 - WALK REMOVED	48 SQ. FT.
ITEN 659 - SEEDING AND MULCHING	6 SQ. YD.



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GENERAL SUMMARY

DESIGN AGENCY



DESIGNER	
ALF	
REVIEWER	
JMF	
PROJECT ID	
110039	
SHEET	TOTAL
8	2