

ITEM 614 - MAINTAINING TRAFFIC

SPIETH ROAD - S.R. 57 (WEST LEG OF ROUNDABOUT)

A MINIMUM OF ONE LANE OF TRAFFIC IN EACH DIRECTION SHALL BE MAINTAINED ON S.R. 57 (SPIETH ROAD AND COLUMBIA ROAD) AT ALL TIMES, EXCEPT FOR A PERIOD NOT TO EXCEED 90 CONSECUTIVE CALENDAR DAYS WHEN THROUGH TRAFFIC MAY BE DETOURED AS SHOWN ON SHEET 9 AND PER THE ADDITIONAL RESTRICTIONS NOTED BELOW.

COLUMBIA ROAD - S.R. 57/S.R. 252 (SOUTH LEG OF ROUNDABOUT)

A MINIMUM OF ONE LANE OF TRAFFIC IN EACH DIRECTION SHALL BE MAINTAINED ON S.R. 57/S.R. 252 (COLUMBIA ROAD) AT ALL TIMES, EXCEPT FOR A PERIOD NOT TO EXCEED 14 CONSECUTIVE CALENDAR DAYS WHEN THROUGH TRAFFIC MAY BE DETOURED AS SHOWN ON SHEET 10.

SPIETH ROAD - C.H. 65 (EAST LEG OF ROUNDABOUT)

A MINIMUM OF ONE LANE OF TRAFFIC IN EACH DIRECTION SHALL BE MAINTAINED ON C.H. 65 (SPIETH ROAD) AT ALL TIMES, EXCEPT FOR A PERIOD NOT TO EXCEED 7 CONSECUTIVE CALENDAR DAYS, WHEN EASTBOUND TRAFFIC MAY BE DETOURED AS SHOWN ON SHEET 11. WESTBOUND TRAFFIC ON C.H. 65 (SPIETH ROAD) SHALL BE MAINTAINED AT ALL TIMES DURING THE PROJECT.

* S.R. 57 (SPIETH ROAD) SHALL NOT BE DETOURED AT THE SAME TIME AS S.R. 57/S.R. 252 (COLUMBIA ROAD), C.H. 65, OR LESTER ROAD. THE TOTAL COMBINED CLOSURE DURATION FOR S.R. 57, S.R. 252, AND C.H. 65 SHALL NOT EXCEED 90 CONSECUTIVE CALENDAR DAYS.

A DISINCENTIVE SHALL BE ASSESSED IN THE AMOUNT OF \$3,200 PER DAY FOR EACH CALENDAR DAY THE ROADWAY REMAINS CLOSED TO TRAFFIC BEYOND THE SPECIFIED LIMIT.

LESTER ROAD

A MINIMUM OF ONE LANE OF TRAFFIC IN EACH DIRECTION SHALL BE MAINTAINED AT ALL TIMES, EXCEPT FOR A PERIOD NOT TO EXCEED 3 CONSECUTIVE CALENDAR DAYS, WHEN THROUGH TRAFFIC MAY BE DETOURED TO CONSTRUCT THE STORM SEWER ACROSS LESTER ROAD. THIS CLOSURE SHALL NOT BE PERFORMED WHILE S.R. 57 IS DETOURED.

SEQUENCE OF CONSTRUCTION

COMPLETE ALL WORK ASSOCIATED WITH THE PROPOSED STORM SEWER PRIOR TO THE FILLING IN OF THE DETENTION POND.

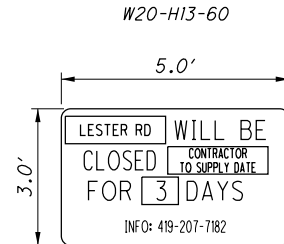
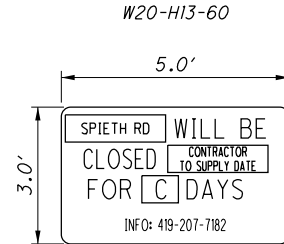
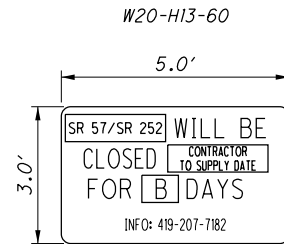
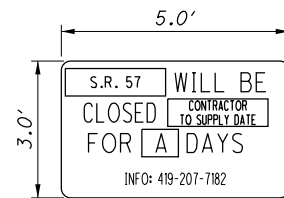
LENGTH AND DURATION OF LANE CLOSURES AND RESTRICTIONS SHALL BE AT THE APPROVAL OF THE ENGINEER. IT IS THE INTENT TO MINIMIZE THE IMPACT TO THE TRAVELING PUBLIC. LANE CLOSURES OR RESTRICTIONS OVER SEGMENTS OF THE PROJECT IN WHICH NO WORK IS ANTICIPATED WITHIN A REASONABLE TIME FRAME, AS DETERMINED BY THE ENGINEER, SHALL NOT BE PERMITTED. THE LEVEL OF UTILIZATION OF MAINTENANCE OF TRAFFIC DEVICES SHALL BE COMMENSURATE WITH THE WORK IN PROGRESS.

NOTICE OF CLOSURE SIGNS (W20-H13) SHALL BE ERECTED BY THE CONTRACTOR PRIOR TO THE SCHEDULED ROAD OR RAMP CLOSURE IN ACCORDANCE WITH THE NOTICE OF CLOSURE TIME TABLE BELOW.

THE SIGNS SHALL BE ERECTED ON THE RIGHT-HAND SIDE OF THE ROAD FACING TRAFFIC. THEY SHALL BE PLACED SO AS NOT TO INTERFERE WITH THE VISIBILITY OF ANY OTHER TRAFFIC CONTROL SIGNS. ON ROADWAYS, THEY SHOULD BE ERECTED AT OR NEAR THE POINT OF CLOSURE.

NOTICE OF CLOSURE SIGN TIME TABLE

ITEM	DURATION OF CLOSURE	SIGN DISPLAYED TO PUBLIC
ROAD CLOSURES	>=2 WEEKS > 12 HOURS & < 2 WEEKS < 12 HOURS	14 CALENDAR DAYS PRIOR TO CLOSURE 7 CALENDAR DAYS PRIOR TO CLOSURE 2 BUSINESS DAYS PRIOR TO CLOSURE



B = MAX. 14 DAYS
C = MAX. 7 DAYS
A+B+C = MAX. 90 DAYS

THE SIGN SHALL DISPLAY THE DATE OF THE CLOSURE IN MMM-DD FORMAT AND THE NUMBER OF DAYS OF THE CLOSURE. THE LAST LINE OF THE W20-H13 SIGN LISTS A PHONE NUMBER WHICH A MOTORIST MAY CALL FOR ADDITIONAL INFORMATION. THIS IS TO BE A SPECIFIC OFFICE WITHIN THE DISTRICT RATHER THAN THE GENERAL SWITCHBOARD NUMBER.

THE CONTRACTOR SHALL PROVIDE, ERECT AND MAINTAIN STANDARD 48 X 30 INCH ROAD CLOSED SIGNS, SIGN SUPPORTS, BARRICADES AND LIGHTS, AS DETAILED IN SCD MT-101.60 AT THE LOCATIONS SHOWN ON THIS PLAN.

THE CONTRACTOR SHALL PROVIDE, ERECT AND MAINTAIN SIGNS AND SIGN SUPPORTS, AS DETAILED IN THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, AND TYPE III BARRICADES OF THE TYPE AND LOCATION SHOWN ON THIS PLAN.

ALL WORK AND TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH C&MS 614 AND OTHER APPLICABLE PORTIONS OF THE SPECIFICATIONS, AS WELL AS THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES. PAYMENT FOR ALL LABOR, EQUIPMENT AND MATERIALS SHALL BE INCLUDED IN THE LUMP SUM CONTRACT PRICE FOR ITEM 614, MAINTAINING TRAFFIC, UNLESS SEPARATELY ITEMIZED IN THE PLAN.

ITEM 614 - DETOUR SIGNING

ALL LABOR, EQUIPMENT, AND MATERIALS NECESSARY TO PROVIDE, ERECT, MAINTAIN, AND REMOVE THE DETOUR SIGNING SHALL BE INCLUDED IN THE LUMP SUM PRICE BID FOR ITEM 614 - DETOUR SIGNING.

PROJECT COORDINATION

THE CONTRACTOR SHALL BE ADVISED THAT THE S.R. 57 DETOUR ROUTE AND SIGNING SHOWN IN THE PLANS FOR THIS PROJECT WILL OVERLAP WITH THE MED-18-0.00 PID 98570 RESURFACING PROJECT, THE MED-252-5.51 PID 102624 CULVERT REPLACEMENT PROJECT, AND THE LOR-83/303 PID 109455 ROUNDABOUT PROJECT. COORDINATION BETWEEN PROJECTS IS REQUIRED PRIOR TO IMPLEMENTING THE DETOUR FOR THIS PROJECT.

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MAINTENANCE OF TRAFFIC GENERAL NOTES

MED-57-17.65

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ITEM 203 - EMBANKMENT, AS PER PLAN

THIS WORK INCLUDES PUMPING AND DEWATERING THE EXISTING POND, REMOVING ALL UNSUITABLE SOILS WITHIN THE LIMITS OF THE POND, INSTALLATION OF A CLAY LINER PER THE REQUIREMENTS BELOW, AND FILLING THE POND PER THE REQUIREMENTS OF C&MS 203. THE POND WATER SHALL BE PUMPED TO THE EXISTING CATCH BASIN LOCATED ON PARCEL 1. ALL LABOR, EQUIPMENT, AND MATERIALS NECESSARY TO COMPLETE THIS WORK SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 203 - EMBANKMENT, AS PER PLAN.

CLAY LINER COMPACTION

THE CLAY LINER SHALL BE APPLIED TO ALL SIDES AND BOTTOM OF THE EXISTING POND FROM STATION 1+60 TO STATION 2+95 UP TO THE TOP OF THE EXISTING BANKS. THE LINER SHALL BE CONSTRUCTED FROM MATERIALS CLASSIFIED AS A-6A, A-6B OR A-7-6 TO A THICKNESS NOT LESS THAN 24 INCHES. THESE MATERIALS SHALL BE PLACED IN ACCORDANCE WITH ODOT CMS 203.06 AND SHALL BE COMPACTED TO THE OPTIMUM DRY DENSITY NECESSARY TO ACHIEVE THE SPECIFIED PERMEABILITY. PRIOR TO CONSTRUCTION OF THE LINER, MOISTURE AND DENSITY REQUIREMENTS SHALL BE DETERMINED BASED ON PERMEABILITY TEST RESULTS CONDUCTED IN THE LABORATORY ON REPRESENTATIVE SOIL SAMPLES FOR USE AS THE CLAY LINER.

PRESS SAMPLES

AT LEAST TWO PRESS SOIL SAMPLES SHALL BE TAKEN IN ACCORDANCE WITH AASHTO T207-87 FROM EACH VERNAL POOL AT LOCATIONS TO BE DETERMINED BY THE FIELD ENGINEER. THE SAMPLES SHALL BE OBTAINED FROM VARYING DEPTHS SO AS TO FULLY REPRESENT THE THICKNESS OF THE CLAY LINER AND SUBGRADE STRATA. DRILLING EQUIPMENT IS NOT REQUIRED TO PRESS THE SOIL SAMPLES, BUT SHALL BE CONDUCTED IN A MANNER TO MEET THE AASHTO STANDARDS.

LABORATORY TESTING

EACH PRESS SOIL SAMPLE SHALL BE TESTED FOR PERMEABILITY IN ACCORDANCE WITH ASTM D5084.00. THE CLAY LINER SHALL HAVE A PERMEABILITY WHICH IS LESS THAN OR EQUAL TO 3.9 E-8 IN/S (1.0 E-7 CM/S). PERMEABILITY TESTING SHALL INCLUDE SAMPLES REPRESENTING THE UPPER, MIDDLE, AND LOWER PORTIONS OF THE CLAY LINER FROM EACH VERNAL POOL. NO TWO SAMPLES FROM THE SAME VERNAL POOL SHALL BE TESTED REPRESENTING THE SAME DEPTH INTERVAL.

ITEM SPECIAL - PIPE CLEANOUT

THIS WORK SHALL CONSIST OF REMOVING SEDIMENT AND DEBRIS FROM THE EXISTING DRAINAGE CONDUITS SPECIFIED IN THE PLANS. ALL MATERIAL REMOVED SHALL BE DISPOSED OF AS PER 105.16 AND 105.17. ALL SEWERS SHALL BE CLEANED OUT TO THE SATISFACTION OF THE ENGINEER.

CLEANOUT OF THE PIPE SHALL BE PAID FOR AT THE UNIT PRICE BID FOR ITEM SPECIAL - PIPE CLEANOUT. THIS PRICE SHALL INCLUDE THE COST FOR MATERIAL, EQUIPMENT, LABOR, AND ALL INCIDENTALS REQUIRED TO COMPLETE THE CLEANOUT.

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED IN THE GENERAL SUMMARY FOR THE ABOVE NOTED WORK:

SPECIAL, PIPE CLEANOUT, 24" AND UNDER 42 FT

ITEM 659 - SEEDING AND MULCHING, AS PER PLAN

THE EXISTING WETLAND LIMITS ARE SHOWN ON SHEET 62 OF THE PLANS. ANY AREA DISTURBED BY THE CONTRACTOR WITHIN THE WETLAND LIMITS SHALL BE RESTORED AND RE-SEEDED PER ITEM 659, EXCEPT AS FOLLOWS:

1. PERMANENT SEEDING AND MULCHING SHALL ONLY BE PERFORMED BETWEEN MARCH 15 AND OCTOBER 15.
2. FERTILIZER SHALL NOT BE APPLIED.
3. SEED MIXES AND RATES SPECIFIED IN THE FOLLOWING TABLE SHALL BE USED.
4. MULCHING SHALL BE PERFORMED USING STRAW MULCH. HYDROSEEDING AND MULCHING IS ALSO ACCEPTABLE, BUT ONLY BETWEEN MARCH 15 AND OCTOBER 15. DO NOT PLACE SEEDING AND MULCHING ON FROZEN GROUND.
5. IF STRAW MULCH IS USED, DO NOT CRIMP. STRAW MULCH IS TO BE APPLIED AT A RATE OF 2 TONS PER ACRE.
6. PAYMENT SHALL BE PER SQUARE YARD AND INCLUDE ALL LABOR, EQUIPMENT, MATERIALS, AND INCIDENTALS NECESSARY TO PERFORM THIS WORK.

SEED SOURCES:

ERNST CONSERVATION NURSERY
9006 MERCER PIKE
MEADVILLE, PA 16335
800-873-3321

EARTH SOURCE AND HEARTLAND
RESTORATION SERVICES, INC.
14921 HAND ROAD
FORT WAYNE, IN 46818-9540
260-489-8511

SPENCE RESTORATION NURSERY
2220 EAST FUSON ROAD
MUNCIE, IN 47302
765-286-7154

PERMANENT SEEDING SCHEDULE (WETLAND SEEDING MIX)		
ITEM 659 - SEEDING AND MULCHING, AS PER PLAN		
PLANTING AREA (DISTURBED WETLAND AREAS - SEE SHEET 62)		
COMMON NAME	SPECIES NAME	POUNDS/ACRE
COMMON OAT	AVENA SATIVA	31.600
ANNUAL RYE	SECALE CEREALE	31.600
COMMON WATER PLANTAIN	ALISMA SUBCORDATUM	0.120
SWAMP MILKWEED	ASCLEPIAS INCARNATA	0.120
NODDING BUR MARIGOLD	BIDENS CERNUA	0.120
DEVIL'S BEGGARSTICKS	BIDENS FRONDOSA	0.120
MARSH MARIFOLD	CALTHA PALUSTRIS	0.120
BRISTLY SEDGE	CAREX CORNOSA	0.240
FRINGED SEDGE	CAREX CRINITA	0.120
HOP SEDGE	CAREX LUPULINA	0.360
BOTTLEBRUSH SEDGE	CAREX LURIDA	0.240
AWL-FRUITED SEDGE	CAREX STIPATA	0.120
BROWN FOX SEDGE	CAREX VULPINOIDEA	0.360
JOE PYE WEED	EUPATORIUM MACULATUM	0.120
BONESET	EUPATORIUM PERFOLIATUM	0.240
NORTHERN BLUE FLAG IRIS	IRIS VERSICOLOR	0.360
SOUTHERN BLUE FLAG IRIS	IRIS VIRGINICA	0.360
RICE CUT GRASS	LEERSIA ORYZOIDES	0.240
CARDINAL FLOWER	LOBELIA CARDINALIS	0.360
GREAT BLUE LOBELIA	LOBELIA SIPHILITICA	0.480
MONKEY FLOWER	MIMULUS RINGENS	0.480
ARROW ARUM	PELTANDRA VIRGINICA	0.600
DITCH STONECROP	PENTHORUM SEDOIDES	0.600
WATER KNOTWEED	POLYGONUM AMPHIBIUM	0.720
PENNSYLVANIA SMARTWEED	POLYGONUM PENNSYLVANICUM	0.840
PICKEREL WEED	PONTERERIA CORDATA	0.840
COMMON ARROWWOOD	SAGITTARIA LATIFOLIA	0.840
HARD-STEM BULRUSH	SCRIPUS ACUTUS	0.120
RIVER BULRUSH	SCRIPUS FLUVIATILIS	0.360
SOFT-STEM BULRUSH	SCRIPUS VALIDUS	0.360
COMMON BUR REED	SPARGANIUM EURYCARPUM	0.960
BLUE VERVAIN	VERBENA HASTATA	1.080

THE DISTURBED AREAS SHALL BE SEEDED AT THE RATES SPECIFIED ABOVE. A TEMPORARY COVER CROP OF GRAIN RYE SHALL ALSO BE SEEDED AT THE RATE OF 30 LBS/ACRE.

THE FOLLOWING ESTIMATED QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY:

ITEM 659, SEEDING AND MULCHING, AS PER PLAN 4000 SQ YD

CALCULATED
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CHECKED
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DETENTION BASIN NOTES

MED - 57 - 17 .65

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