



# GENERAL NOTES

## CONSTRUCTION NOISE ASSESSMENT

IN ORDER TO MINIMIZE ANY ADVERSE CONSTRUCTION NOISE IMPACTS, ANY POWER OPERATED CONSTRUCTION-TYPE DEVICE SHALL NOT BE OPERATED BETWEEN THE HOURS OF 10:00 P.M. AND 6:00 A.M. IN ADDITION, ANY POWER OPERATED CONSTRUCTION-TYPE DEVICE SHALL NOT BE OPERATED IN SUCH A MANNER THAT THE NOISE CREATED SUBSTANTIALLY EXCEEDS THE NOISE CUSTOMARILY AND NECESSARILY ATTENDANT TO THE REASONABLE AND EFFICIENT PERFORMANCE OF SUCH EQUIPMENT.

## UNDERGROUND UTILITIES

THE LOCATIONS OF THE UNDERGROUND UTILITIES SHOWN ON THESE PLANS ARE AS OBTAINED FROM THE OWNERS OF THE UTILITY AS REQUIRED BY SECTION 153.64 OF THE O.R.C.

## UTILITIES

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

TOLEDO EDISON MAIL STOP HLOC-2330 TOLEDO, OH 43528 PH. 419-249-4139 PH. 800-447-3333	WINDSTREAM OHIO, INC. 225 W. COLUMBUS ST. KENTON, OH 43326 PH. 419-674-1124	TRICOUNTY RURAL ELECTRIC 8-200 TWP. RD. K2 MALINTA, OH 43535 PH. 419-256-7006	OHIO GAS COMPANY P.O. BOX 528 BRYAN, OHIO 43506 PH. 419-636-1117 PH. 1-800-331-7396 PH. 1-800-331-2176
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## HIGHWAY EASEMENTS

THE SWANCREEK TOWNSHIP TRUSTEES HAVE ACQUIRED ALL THE ADDITIONAL RIGHT OF WAY NECESSARY FOR THIS PROJECT. THE CONTRACTOR SHALL NOT PERFORM WORK, NOR STORE EQUIPMENT AND/OR MATERIALS OUTSIDE THE ESTABLISHED HIGHWAY RIGHT OF WAY. IN THE EVENT THAT THE CONTRACTOR NEEDS TO OCCUPY LAND OUTSIDE THE ESTABLISHED HIGHWAY RIGHT OF WAY IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN AN AGREEMENT WITH THE LANDOWNER.

## BENCH MARK DATUM

SITE BENCH MARKS HAVE BEEN ESTABLISHED AND CAN BE FOUND ON THE RESPECTIVE PLAN AND PROFILE SHEETS AND WITHIN THE BENCH MARK TABLE AS SHOWN ON SHEET #3. ANY ADDITIONAL BENCH MARKS THAT MAY BE NEEDED ARE THE RESPONSIBILITY OF THE CONTRACTOR. THIS SHALL BE PAID FOR UNDER ITEM 623 CONSTRUCTION LAYOUT AND STAKING.

## CONTROL POINTS

BEFORE ACTUAL CONSTRUCTION OPERATIONS BEGIN, THE ENGINEER WILL REFERENCE ALL EXISTING MONUMENTS, RAILROAD SPIKES, HARROW TEETH, ETC. IN THE SURVEY LINE. UPON COMPLETION OF THE PROPOSED PAVEMENT, THE ENGINEER SHALL RESET ALL CONTROL POINTS IN THE NEW PAVEMENT.

## RELOCATION OR REMOVAL OF EXISTING TRAFFIC CONTROL DEVICES

ANY EXISTING TRAFFIC CONTROL SIGNS OR DELINEATORS WHICH CONFLICT WITH THE PROPOSED CONSTRUCTION OPERATIONS WILL BE RELOCATED OR REMOVED PRIOR TO CONSTRUCTION BY THE FULTON COUNTY HIGHWAY DEPARTMENT OR SWANCREEK TOWNSHIP. TO ALLOW FOR PROPER SCHEDULING OF THE WORK, IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO GIVE FULTON COUNTY AT LEAST A THREE WORKING DAY NOTICE OF THEIR INTENT TO BEGIN WORK IN THOSE AREAS WHERE TRAFFIC CONTROL DEVICES MUST BE RELOCATED. FAILURE TO PROVIDE THIS NOTICE WILL RESULT IN THE REMOVAL AND RE-ERECTION OF THE TRAFFIC CONTROL SIGNS BY THE CONTRACTOR AT HIS EXPENSE TO THE SATISFACTION OF THE ENGINEER.

## CROSSING EXISTING PIPES AND UTILITIES

WHERE PLANS PROVIDE FOR A PROPOSED CONDUIT TO BE CONNECTED TO, OR CROSS OVER OR UNDER AN EXISTING SEWER OR UNDERGROUND UTILITY, THE CONTRACTOR SHALL LOCATE THE EXISTING PIPES OR UTILITIES BOTH AS TO LINE AND GRADE BEFORE STARTING TO LAY THE PROPOSED CONDUIT.

IF IT IS DETERMINED THAT THE ELEVATION OF THE EXISTING CONDUIT, OR EXISTING APPURTENANCE TO BE CONNECTED, DIFFERS FROM THE PLAN ELEVATION OR RESULTS IN A CHANGE OF PLAN CONDUIT SLOPE, THE ENGINEER SHALL BE NOTIFIED BEFORE STARTING CONSTRUCTION OF ANY PORTION OF THE PROPOSED CONDUIT WHICH WILL BE AFFECTED BY THE VARIANCE IN THE EXISTING ELEVATIONS.

IF IT IS DETERMINED THAT THE PROPOSED CONDUIT WILL INTERSECT AN EXISTING SEWER OR UNDERGROUND UTILITY IF CONSTRUCTED AS SHOWN ON THE PLAN, THE ENGINEER SHALL BE NOTIFIED BEFORE STARTING CONSTRUCTION OF ANY PORTION OF THE PROPOSED CONDUIT WHICH WOULD BE AFFECTED BY THE INTERFERENCE WITH AN EXISTING FACILITY.

PAYMENT FOR ALL THE OPERATION ABOVE SHALL BE INCLUDED IN THE CONTRACT PRICE FOR THE PERTINENT 603 CONDUIT ITEM.

## FARM DRAINS AND HOUSE CONNECTIONS

EXISTING FARM DRAINS, ROOF DRAINS, CLEAN WATER DRAINS, FOOTER DRAINS, OR YARD DRAINS DISTURBED BY THE PROPOSED WORK SHALL BE PROVIDED WITH UNOBSTRUCTED OUTLETS BY CONNECTION TO A STORM SEWER, CATCH BASIN, OR OUTLET INTO A DITCH AS DIRECTED BY THE ENGINEER. THE LOCATION, TYPE, SIZE AND GRADE OF THE REQUIRED REPLACEMENT WILL BE DETERMINED BY THE ENGINEER DURING CONSTRUCTION. PAYMENT FOR ANY NECESSARY BENDS, TEES, WYES OR OTHER FITTINGS SHALL BE INCLUDED IN THE RESPECTIVE CONDUIT ITEM.

## PIPE COLLARS

WHERE CONNECTIONS ARE MADE BETWEEN RIGID AND FLEXIBLE PIPE SECTIONS OR BETWEEN PIPE SECTIONS OF DIFFERENT MATERIAL OR TYPE OF END FABRICATION, WHETHER REQUIRED BY THE PLANS OR ENCOUNTERED IN CONNECTION TO EXISTING FACILITIES, THE JOINT SHALL BE SEALED BY MEANS OF A CONCRETE COLLAR, FERNCO FITTING OR APPROVED EQUAL. PAYMENT FOR ALL OPERATIONS DESCRIBED ABOVE SHALL BE INCLUDED IN THE UNIT PRICE FOR ITEM 603.

## DRAINAGE WITHIN PAVEMENT LIMITS

ALL ITEM 202 PIPE REMOVAL TRENCHES AND ALL PROPOSED CROSSEVER TRENCHES SHALL BE BACKFILLED TO FIVE FEET OUTSIDE THE EDGE OF PROPOSED PAVEMENT BASE WITH NO. 8 GRANULAR BEDDING AND BACKFILL MATERIAL AS PER TYPE B CONDUIT TRENCH DETAIL SHOWN ON SHEET #4. THOSE PORTIONS OF THE TRENCHES THAT EXTEND OUTSIDE THE EDGE OF PROPOSED PAVEMENT BASE TO THE RIGHT OF WAY LINE, SHALL CONFORM WITH THE TYPE C CONDUIT TRENCH DETAIL AS SHOWN ON SHEET #4.

## PIPE FITTINGS

THE UNIT PRICE BID FOR THE CONDUIT ITEMS SHALL INCLUDE ALL PROPOSED BENDS, TEES, WYES, AND OTHER FITTINGS NECESSARY TO CONSTRUCT THE CONDUIT. ALL PIPE FITTINGS SHALL BE FACTORY MADE.

## ITEM 603 CONDUIT

THE JOINTS OF ALL PIPE PROVIDED FOR TYPE B CONDUIT SHALL BE EQUIPPED WITH GASKETS. ALL CONNECTIONS OF EXISTING TILE TO PROPOSED TYPE B CONDUIT SHALL BE OF A PREMIUM, WATERTIGHT JOINT.

ANY EXISTING TILE TO BE CUT OFF AND DESIGNATED AS "ABANDONED TILE" BY THE ENGINEER, SHALL BE SEALED OFF AND APPROVED BY THE ENGINEER. THE CONTRACTOR SHALL MAKE NOTE OF LOCATION, SIZE AND CONDITION OF ANY EXISTING TILE THAT MAY COME INTO CONTACT WITH THE PROPOSED CONDUIT TRENCH.

TYPE B CONDUIT SHALL MEET ANY OF THE FOLLOWING O.D.O.T. ITEMS: 706.02 (CLASS IV), 707.45.  
TYPE C CONDUIT SHALL MEET ANY OF THE FOLLOWING O.D.O.T. ITEMS: 706.02 (CLASS IV), 707.33, 707.42, 707.45.  
TYPE D CONDUIT SHALL MEET ANY OF THE FOLLOWING O.D.O.T. ITEMS: 707.01.  
TYPE E CONDUIT SHALL MEET ANY OF THE FOLLOWING O.D.O.T. ITEMS: 707.33, 707.42, 707.45.

ALL EXPOSED TILE OUTLETS 12" AND UNDER SHALL HAVE ANIMAL GUARDS PLACED AT THE OUTLET AND BE INCLUDED IN THE PAY ITEM OF THE RESPECTIVE CONDUIT. THIS SHALL INCLUDE ALL OUTLETS INTO BASINS WHERE THE OUTLET PIPE IS GREATER THAN 12".

ALL PROPOSED CONNECTIONS TO EXISTING STRUCTURES SHALL BE A WATERTIGHT PREMIUM JOINT OR A CONCRETE COLLAR.

SLAG SHALL NOT BE PERMITTED FOR TYPE A AND TYPE B CONDUIT BEDDING/BACKFILL OR ANY STRUCTURES UNDER OR WITHIN 5' OF THE PAVEMENT.

## ITEM 604 CATCH BASINS

ALL CATCH BASINS SHALL HAVE A TWELVE (12)-INCH SUMP, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

## ITEM 201 CLEARING AND GRUBBING

THE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEARING ALL DEBRIS TO THE ROAD RIGHT OF WAY LINE. THIS SHALL INCLUDE ALL TREES AND STUMPS AS MARKED ON THIS SET OF ROAD PLANS. THE ENGINEER SHALL BE NOTIFIED PRIOR TO THE REMOVAL OF ANY TREE OR CROP.

ROAD 5-2 - THE TOWNSHIP WILL DO NO WORK ON THIS DITCH PRIOR TO THE CONTRACTOR BEGINNING WORK.

ROAD C - THE TOWNSHIP WILL DO NO WORK ON THIS DITCH PRIOR TO THE CONTRACTOR BEGINNING WORK. THE CONTRACTOR WILL BE RESPONSIBLE TO REMOVE ALL STUMPS AND BRUSH.

ROAD 2 - THE TOWNSHIP WILL REMOVE THE TWO LARGE TREES AND CLEAR THE BRUSH ON THE BACKSLOPE PRIOR TO THE CONTRACTOR COMMENCING WORK. THE CONTRACTOR WILL HAVE TO REMOVE THE TWO STUMPS. THE TOWNSHIP WORK WILL NOT OCCUR UNTIL THE OPWC PAPERWORK IS PROCESSED IN JULY.

THE EXISTING DITCH SHALL BE SCALPED AND CLEARED PRIOR TO EMBANKMENT CONSTRUCTION.

PAYMENT FOR THE ABOVE SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 201 CLEARING AND GRUBBING.

## ROADBED/CHANNEL EMBANKMENTS

PORTIONS OF THE EXISTING CHANNEL OUTSIDE OF THE ROADBED, SHALL BE FILLED AND SLOPED TO GRADE, AS CALLED FOR ON THE PLANS. THE CONTRACTOR SHALL USE SUITABLE MATERIALS, TO THE EXTENT AVAILABLE, FOR CHANNEL EMBANKMENTS. WHEN BORROW IS SPECIFIED IN THE PLANS AND TO BE PROVIDED BY THE CONTRACTOR, ALL MATERIAL SHALL BE APPROVED BY THE ENGINEER PRIOR TO PLACEMENT.

NO PROVISIONS OF THE SPECIFICATIONS SHALL BE WAIVED FOR EMBANKMENT WHICH SUPPORT ANY PORTION OF THE NEW ROADBED OR STRUCTURAL MEMBERS.

UPON CLEARING THE EXISTING DITCH OF ALL VEGETATION, THE UNSUITABLE MATERIAL FROM THE DITCH BOTTOM SHALL BE REMOVED. THIS MATERIAL MAY BE USED FOR EMBANKMENT WITHIN THE PROJECT, AS APPROVED BY THE ENGINEER.

PAYMENT FOR ALL THE ABOVE SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 203, EMBANKMENT.

## ROUNDING

THE ROUNDING AT SLOPE BREAKPOINTS SHOWN ON THE TYPICAL SECTIONS APPLY TO ALL CROSS SECTIONS EVEN THOUGH OTHERWISE SHOWN.

## ITEM 617 ~ RECONDITIONING OF SHOULDERS

APPROVED MATERIAL FOR THIS ITEM SHALL BE IN ACCORDANCE WITH O.D.O.T. ITEM. ALL EXISTING STONE MAILBOX APPROACHES SHALL BE OVERLAID WHILE PLACING THE AGGREGATE SHOULDER. QUANTITY HAS BEEN INCLUDED IN ITEM 617, RECONDITIONING OF SHOULDERS FOR THE OVERLAY OF THE MAILBOX APPROACH AREAS.

## ITEM 411 ~ CRUSHED AGGREGATE BASE FOR DRIVES & MAILBOXES

MATERIALS FURNISHED FOR THIS ITEM SHALL EXCLUDE ALL SLAG. DRIVES REQUIRING 411 SHALL BE PLACED EITHER AS AN OVERLAY TO MEET PROPOSED GRADE OR TO A MINIMUM OF 6" WHERE NEW BASE MATERIAL IS REQUIRED.

## ITEM 448 ~ ASPHALT CONCRETE SURFACE COURSE, TYPE 1

THERE SHALL BE A 1' ASPHALT KICKOUT ON ALL EXISTING STONE DRIVES AND MAILBOX APPROACHES. THERE SHALL BE A 2'-3" ASPHALT KICKOUT ON ALL EXISTING ASPHALT AND CONCRETE DRIVES, AS DETERMINED BY THE ENGINEER. QUANTITY HAS BEEN INCLUDED IN ITEM 448, ASPHALT SURFACE COURSE, TYPE 1 FOR THE KICKOUTS.

## ITEM 253 ~ PAVEMENT REPAIR

THE REPAIR AREA WILL BE 250' X 4' X 4". THE MATERIAL TO BE PLACED IN THE REPAIR AREA IS ITEM 448, ASPHALT CONCRETE SURFACE COURSE, TYPE 1. THE ASPHALT SHALL BE PLACED AND COMPACTED IN TWO SEPARATE LIFTS. PAYMENT FOR THIS ITEM SHALL BE INCLUDED IN THE PAVEMENT REPAIR ITEM.

## ITEM 407 TACK COAT

THE RATE OF APPLICATION OF THE 407 TACK COAT SHALL BE SUBJECT TO ADJUSTMENT, AS DIRECTED BY THE ENGINEER. PLAN QUANTITIES INDICATE AN AVERAGE APPLICATION RATE OF 0.08 GALLONS PER SQUARE YARD FOR THE ESTIMATING PURPOSES ONLY.

## EROSION CONTROL

THE CONTRACTOR SHALL PROVIDE AND INSTALL EROSION CONTROL DEVICES AS PER DETAIL ON SHEET #4 AND AS DIRECTED BY THE ENGINEER THROUGHOUT THE DURATION OF THE PROJECT AS NEEDED. THE CONTRACTOR SHALL CONSTRUCT THE INLET PROTECTION IMMEDIATELY AFTER COMPLETING INSTALLATION OF THE INLET. PAYMENT FOR THIS WORK SHALL BE INCLUDED IN ITEM INLET PROTECTION.

## EXISTING STORM STRUCTURES

THE CONTRACTOR SHALL PROTECT EXISTING AND PROPOSED INLETS AND STORM SEWERS FROM SOIL AND DEBRIS DURING CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING ANY AND ALL STORM SEWERS, CULVERTS OR DITCHES THAT BECOME FILLED OR PARTIALLY FILLED WITH SOLIDS DUE TO THIS CONTRACT WORK.

## LOCAL DRIVE ACCESS

THE CONTRACTOR SHALL MAINTAIN ACCESS TO LOCAL DRIVES AT ALL TIMES UNLESS AN AGREEMENT IS MADE WITH ENGINEER OR LANDOWNER.

## ITEM 614 MAINTAINING TRAFFIC

METHODS OF MAINTAINING TRAFFIC SHALL BE IN ACCORDANCE WITH O.D.O.T. ITEM 614 AND THE LATEST EDITION OF THE "OHIO MANUAL UNIFORM TRAFFIC CONTROL DEVICES" (OMUTCD).

SHOULD ADDITIONAL SIGNS AND/OR BARRICADES BE REQUIRED TO PROVIDE CLARITY TO THE TRAFFIC CONTROL SCHEMES SET FORTH IN THE PLANS OR THE O.M.U.T.C.D. OR SHOULD ANY SIGNS AND/OR BARRICADES REQUIRE RELOCATION TO PROVIDE THIS CLARITY AS DIRECTED BY THE ENGINEER, THIS WORK SHALL BE INCLUDED IN ITEM 614, MAINTAINING TRAFFIC.

THE CONTRACTOR SHALL NOTIFY THE FULTON COUNTY ENGINEER IN WRITING SEVEN (7) WORKING DAYS PRIOR TO THE CLOSING OF THE ROAD UNDER CONSTRUCTION.

THE CONTRACTOR SHALL FOLLOW THE TRAFFIC MAINTENANCE DIAGRAM AS DETAILED ON THE SPECIFIED SHEET BEING TRAFFIC MAINTENANCE (SHEET #5, 6 & 7).

THE CONTRACTOR SHALL PLACE CONSTRUCTION DRUMS ALONG THE EDGE(S) OF PAVEMENT THROUGHOUT THE DURATION OF CONSTRUCTION IN PERTINENT AREAS.

THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING AND KEEPING INFORMED, THE FULTON COUNTY SHERIFF AND ALL AFFECTED SCHOOL DISTRICTS DURING THE ENTIRE PROJECT.

THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING AND/OR CONSTRUCTING ACCESS FOR RESIDENTS AND EMERGENCY VEHICLES TO ALL DRIVES THROUGHOUT THE DURATION OF THE PROJECT.

PAYMENT FOR PROVIDING THE ABOVE METHOD OF TRAFFIC CONTROL SHALL BE INCLUDED IN THE ITEM 614, MAINTAINING TRAFFIC.

## POSTAL SERVICE

THE CONTRACTOR SHALL ARRANGE WITH THE POSTAL SERVICE TO RELOCATE ANY MAILBOXES WITHIN THE RIGHT OF WAY TO A SAFE LOCATION DURING CONSTRUCTION WHILE MAINTAINING ACCESS FOR DELIVERY AND COLLECTION OF MAIL. ANY DISTURBED MAILBOXES WILL BE RESET BY THE CONTRACTOR UPON COMPLETION OF WORK. COST OF THE ABOVE COMPLETED WORK SHALL BE INCLUDED IN THE LUMP SUM ITEM 614 MAINTAINING TRAFFIC.

## WORK ZONE CENTERLINE

WORK ZONE CENTERLINE STRIPING SHALL BE PLACED ON THE WEARING COURSE IN ACCORDANCE WITH O.D.O.T. SPECIFICATION 614. IN THE EVENT THAT THE INTERMEDIATE COURSE AND WEARING COURSE ARE NOT GOING TO BE PLACED CONSECUTIVELY, THE CONTRACTOR SHALL ALSO PLACE THE WORK ZONE CENTERLINE STRIPING ON THE INTERMEDIATE COURSE. PAYMENT FOR THE WORK ZONE CENTERLINE STRIPING SHALL BE INCLUDED IN THE LUMP SUM PRICE FOR ITEM 614.

## DAILY ROAD MAINTENANCE

THE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING THE ROADWAY FREE OF DEBRIS FROM CONSTRUCTION ACTIVITY ON A DAY-TO-DAY BASIS OR AT THE REQUEST OF THE ENGINEER. MEANS AND METHODS MAY BE AT THE CONTRACTOR'S DISCRETION AND SHALL MEET THE APPROVAL OF THE ENGINEER. PAYMENT FOR ALL WORK SHALL BE INCLUDED IN THE LUMP SUM ITEM 614 MAINTAINING TRAFFIC.

## ITEM 659 SEEDING AND MULCHING

THE CONTRACTOR SHALL BE RESPONSIBLE TO RETURN THE LANDOWNERS' FRONTAGE TO ITS ORIGINAL CONDITION OR BETTER. ALSO WITHIN THIS ITEM THE CONTRACTOR WILL BE RESPONSIBLE TO PLACE TOPSOIL WITH A 4" COMPACTED THICKNESS ON ALL FRONTAGE THAT IS MAINTAINED AS LAWN. THE REMAINDER OF THE PROJECT SHALL HAVE TOPSOIL PLACED, ENOUGH SO THAT IT IS SUITABLE FOR SEEDING. SUITABLE MATERIAL FROM THE PROJECT CAN BE USED FOR TOPSOIL. USE CLASS 1-LAWN MIXTURE ON ALL RESIDENTIAL AND COMMERCIAL LAWNS AND CLASS 2-ROADSIDE MIXTURE ON FOR ALL OTHER LOCATIONS. ALL SEEDING FOR THIS PROJECT SHALL BE PLACED WITH A HYDRO SEEDER. ALL WORK SHALL BE IN ACCORDANCE WITH ITEM 659 SEEDING AND MULCHING. PAYMENT FOR THIS WORK SHALL BE INCLUDED IN ITEM 659 SEEDING AND MULCHING.

## EQUIPMENT OPERATION

THE CONTRACTOR SHALL OPERATE EQUIPMENT IN A MANNER THAT IT WILL NOT DAMAGE THE EXISTING ROADWAY. ROADWAY DAMAGE CAUSED BY THE OPERATION OF EQUIPMENT WILL RESULT IN THE CONTRACTOR BEING RESPONSIBLE TO REPAIR THE DAMAGE AT HIS EXPENSE AS APPROVED BY SWANCREEK TOWNSHIP.

## ROAD 2 PAVING

THE CONTRACTOR SHALL COMPLETE ALL OF THE DITCH ENCLOSURE WORK PRIOR TO PLACING THE ASPHALT OVERLAY ON THE ENTIRE MILE.

Drawn By:  
HKD/BDL

Date: 5/20/2013

Checked By:  
FTO

Revised:

SWANCREEK TWP. DITCH IMPROVEMENTS & RESURFACING

GENERAL NOTES

FULTON COUNTY ENGINEERING DEPT.  
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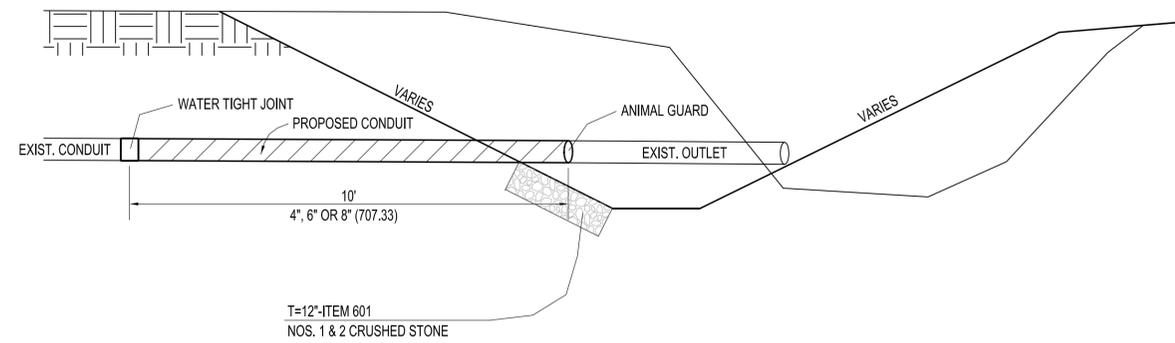
LOCATION	LENGTH	EXISTING PAVEMENT WIDTH	PROPOSED PAVEMENT WIDTH	202	253	407	448	617
				PAVEMENT REMOVAL FOR BUTT JOINTS	PAVEMENT REPAIR WIDTH=4', DEPTH=4"	TACK COAT (0.08 GAL./S.Y.)	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, PG 64-22, (1.5')	RECONDITIONING OF SHOULDERS (2')
	L.F.	FEET	FEET	S.Y.	C.Y.	GALLON	C.Y.	C.Y.
AT ROAD D	4	VARIES	VARIES	30.2		11.1	5.8	0.9
MAINLINE (C TO D)	5894	19	19		12	901	469.3	96.3
AT ROAD C	4	VARIES	VARIES	48.4		31.1	16.2	1.5
DRIVEWAYS & MB APPROACHES						19.6	41.6	27.2
TOTALS TO GENERAL SUMMARY				79	12	963	533	126

REFERENCE NUMBER	SHEET NUMBER	ROAD SECTION	STATION			202 PIPE REMOVED 24" & UNDER	202 PIPE REMOVED OVER 24"	202 42" PIPE REMOVED & STORED FOR REUSE	207 INLET PROTECTION	601 NO. 1'S & 2'S	601 TYPE D ROCK CHANNEL PROTECTION WITHOUT FILTER	603												604 NO. 2-2B CATCH BASIN	604 NO. 2-5 CATCH BASIN	FOR INFORMATION ONLY									
			FROM	TO	SIDE							TYPE B						TYPE C								(PRICE TO BE INCLUDED IN COST OF ASSOCIATED PIPE)									
												12"	6"	8"	10"	12"	15"	42" PLACEMENT OF STORED PIPE	48"	34 1/32" X 53 9/32"	ANIMAL GUARD - 6"	ANIMAL GUARD - 8"	ANIMAL GUARD - 10"			ANIMAL GUARD - 12"									
FT.	FT.	FT.	EA.	TON	TON	FT.	FT.	FT.	FT.	FT.	FT.	FT.	EA.	EA.	EA.	EA.																			
D-1	8	ROAD 5-2	37+09	37+11	RT.				1	12	14					15				1															
D-2	8	ROAD 5-2	39+83	40+11	RT.	8			1	10											1	1	1												
D-3	10	ROAD C	36+92	37+14	LT.				1	22																									
D-4	11	ROAD C	45+56	45+71	LT.					18																									
D-5	12	ROAD C	46+58	46+66	LT.					4						16					1														
D-6	13	ROAD C	51+51	51+66	LT.					18																									
D-7	13	ROAD C	51+00	53+50	LT.				1	4						16					1														
D-8	17	ROAD 2	31+60	35+60	LT.	33	4	8	3		14																								
ROAD 5-2 SUBTOTAL						8			2	22						15					1	1	2	1											
ROAD C SUBTOTAL									3	66						32						2	1												
ROAD 2 SUBTOTAL						33	4	8	3		14											1	2	1	1	2	1								
TOTALS TO GENERAL SUMMARY						41	4	8	8	88	28												4	4	3	2	2	3							

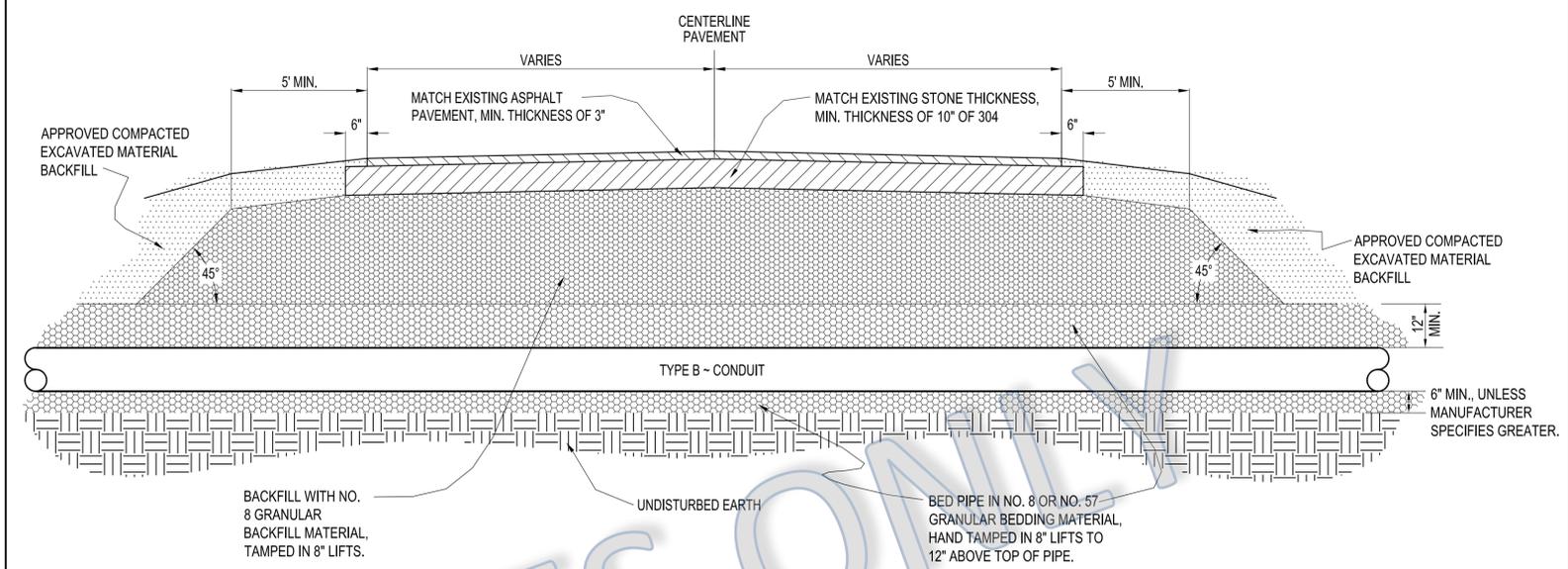
SHEET NO.	ROAD SECTION	STATION		203		659
		FROM	TO	EXCAVATION	EMBANKMENT	SEEDING
				C.Y.	C.Y.	S.Y.
9	ROAD 5-2	37+10	40+00	591.2	573.0	1,038.5
14	ROAD C	37+00	42+00	1,152.3	1,262.6	3,143.4
15	ROAD C	43+00	49+00	2,229.2	1,775.7	3,642.3
16	ROAD C	50+00	54+00	1,071.9	991.7	2,496.4
18	ROAD 2	31+60	34+08	98.8	412.5	627.1
19	ROAD 2	34+50	35+60	28.8	207.6	504.3
TOTALS TO GENERAL SUMMARY				5,172	5,223	11,452

ROAD SECTION	BM NO.	SHT. NO.	STATION	OFFSET	ELEVATION	DESCRIPTION
ROAD 5-2	1	8	35+75.24	17.79' LT.	700.10	DH NAIL W/TAG IN NE FACE PP
ROAD 5-2	2	8	40+31.74	24.84' LT.	697.26	CHISELED X ON WEST END OF 48" RCP
ROAD C	3	13	54+27.20	25.15' RT.	673.51	DH NAIL W/TAG IN N FACE PP
ROAD C	4	12	50+11.77	21.59' RT.	676.41	DH NAIL W/TAG IN N FACE PP
ROAD C	5	12	46+37.47	23.18' RT.	674.89	DH NAIL W/TAG IN N FACE PP
ROAD C	6	10	40+54.94	22.83' RT.	677.12	DH NAIL W/TAG IN N FACE PP
ROAD C	7	10	36+60.81	24.32' RT.	677.53	DH NAIL W/TAG IN E FACE PP
ROAD 2	8	17	34+13.43	33.69' RT.	676.27	DH NAIL W/TAG IN NW FACE PP
ROAD 2	9	17	31+58.58	26.86' RT.	674.07	CHISELED SQUARE ON EAST END OF 42" RCP

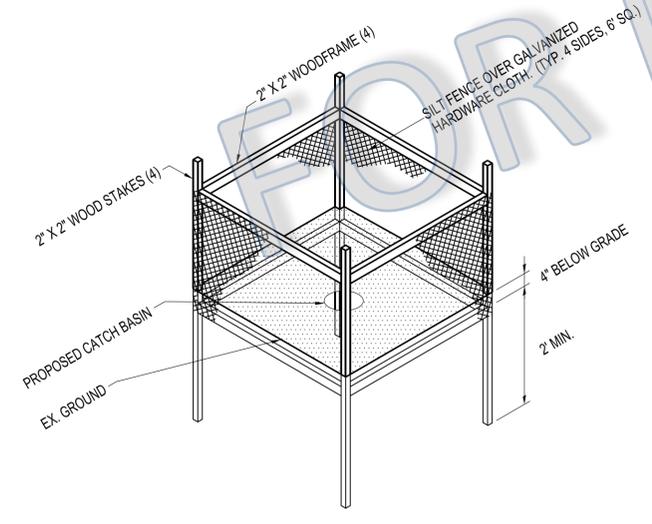
SHEET NO.	ITEM	GRAND TOTAL	UNIT	DESCRIPTION	ORIGIN
				<b>EARTHWORK</b>	
	201	1	LUMP	CLEARING AND GRUBBING	PLANS
3	202	41	FT.	PIPE REMOVED 24" & UNDER	TABLE D
3	202	4	FT.	PIPE REMOVED, OVER 24"	TABLE D
3	202	8	FT.	42" PIPE REMOVED & STORED FOR REUSE	TABLE D
3	203	5,172	C.Y.	EXCAVATION	TABLE E
3	203	5,223	C.Y.	EMBANKMENT	TABLE E
				<b>EROSION CONTROL</b>	
8,10-13,17	207	38	EA.	STRAW BALES FOR EROSION CONTROL, AS PER DETAILS	PLANS
3	207	8	EA.	INLET PROTECTION, AS PER DETAIL	TABLE D
3	601	88	TON	NO. 1'S AND 2'S	TABLE D
3	601	28	TON	ROCK CHANNEL PROTECTION, TYPE D, WITHOUT FILTER	TABLE D
8,10-13,17	659	11,452	S.Y.	SEEDING AND MULCHING	TABLE E
				<b>DRAINAGE</b>	
3	603	10	FT.	12" CONDUIT, TYPE B	TABLE D
3	603	8	FT.	6" CONDUIT, TYPE C	TABLE D
3	603	13	FT.	8" CONDUIT, TYPE C	TABLE D
3	603	6	FT.	10" CONDUIT, TYPE C	TABLE D
3	603	35	FT.	12" CONDUIT, TYPE C	TABLE D
3	603	15	FT.	15" CONDUIT, TYPE C	TABLE D
3	603	8	FT.	42" CONDUIT, TYPE C, PLACEMENT OF STORED PIPE	TABLE D
3	603	52	FT.	48" CONDUIT, TYPE C	TABLE D
3	603	400	FT.	34 1/32" X 53 9/32" CONDUIT, TYPE C	TABLE D
3	604	4	EA.	NO. 2-2B CATCH BASIN	TABLE D
3	604	4	EA.	NO. 2-5 CATCH BASIN	TABLE D
				<b>PAVEMENT</b>	
3	202	79	S.Y.	PAVEMENT REMOVED FOR BUTT JOINTS	TABLE P
3	253	12	C.Y.	PAVEMENT REPAIR	TABLE P
3	407	963	GAL.	TACK COAT	TABLE P
3	448	533	C.Y.	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, PG 64-22	TABLE P
17	411	7	C.Y.	AGGREGATE BASE FOR DRIVES	PLANS
3	617	126	C.Y.	AGGREGATE SHOULDER	TABLE P
				<b>MISCELLANEOUS</b>	
	103	1	LUMP	PREMIUM FOR CONTRACT PERFORMANCE BOND AND MAINTENANCE GUARANTEE BOND	
	614	1	LUMP	MAINTAINING TRAFFIC	
	623	1	LUMP	CONSTRUCTION LAYOUT STAKES	



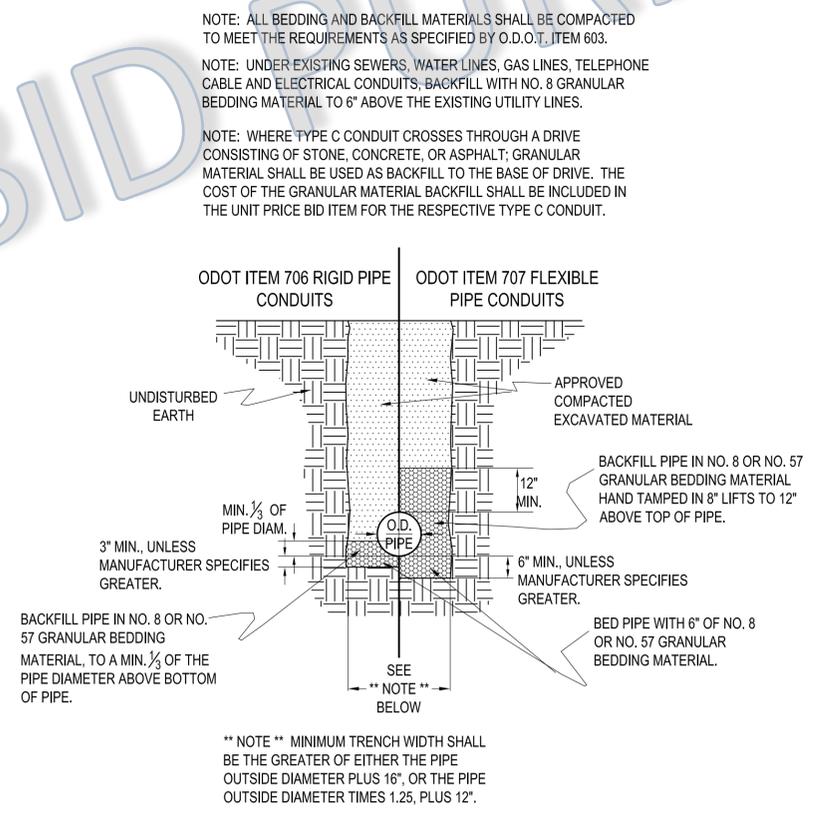
**PROPOSED TYPICAL DRAINAGE OUTLET INTO PROPOSED DITCH**  
(NOT TO SCALE)



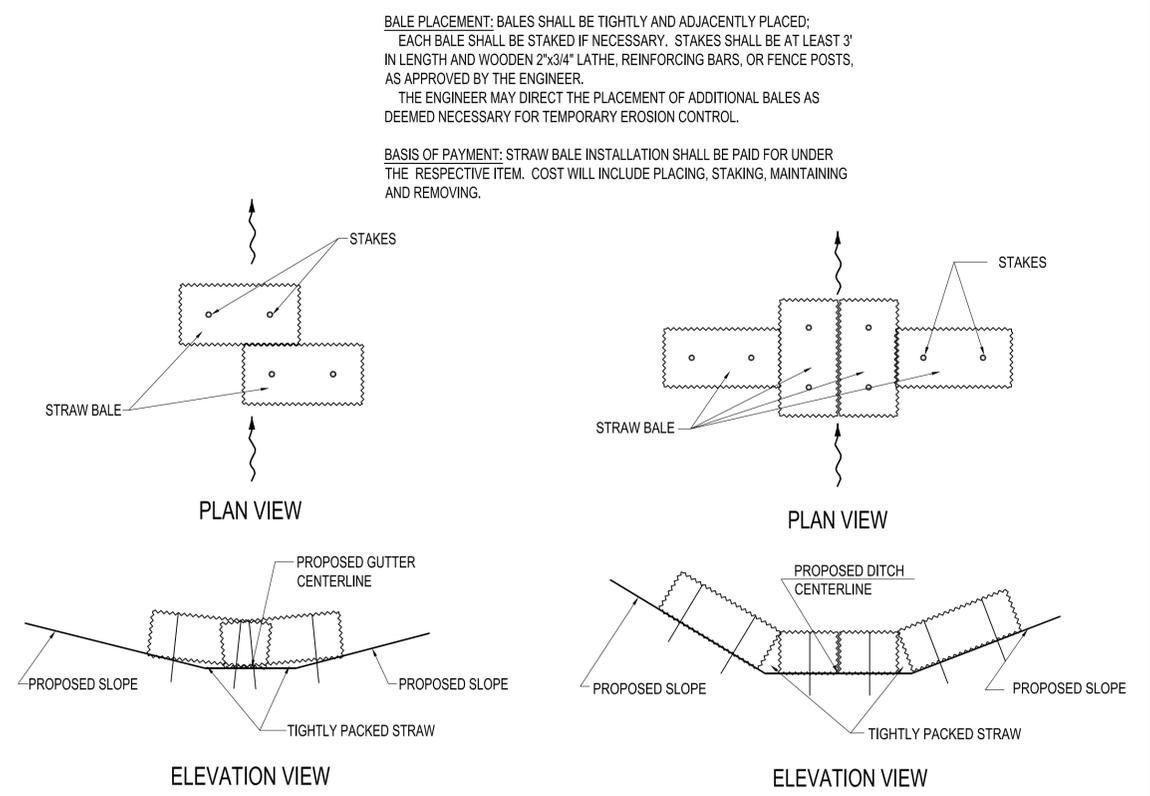
**CROSS-SECTION DETAIL ~ OPEN CUT**  
\* NOT TO SCALE



**TYPICAL SILT FENCE**  
**SEDIMENT BARRIER**  
(NOT TO SCALE)



**TYPE C CONDUIT ~ TRENCH DETAIL**  
(OUTSIDE 5 FT. OF EDGE OF PAVEMENT)  
\* NOT TO SCALE



**STRAW BALE GUTTER CHECK (2 BALES)**

**STRAW BALE DITCH CHECK (4 BALES)**

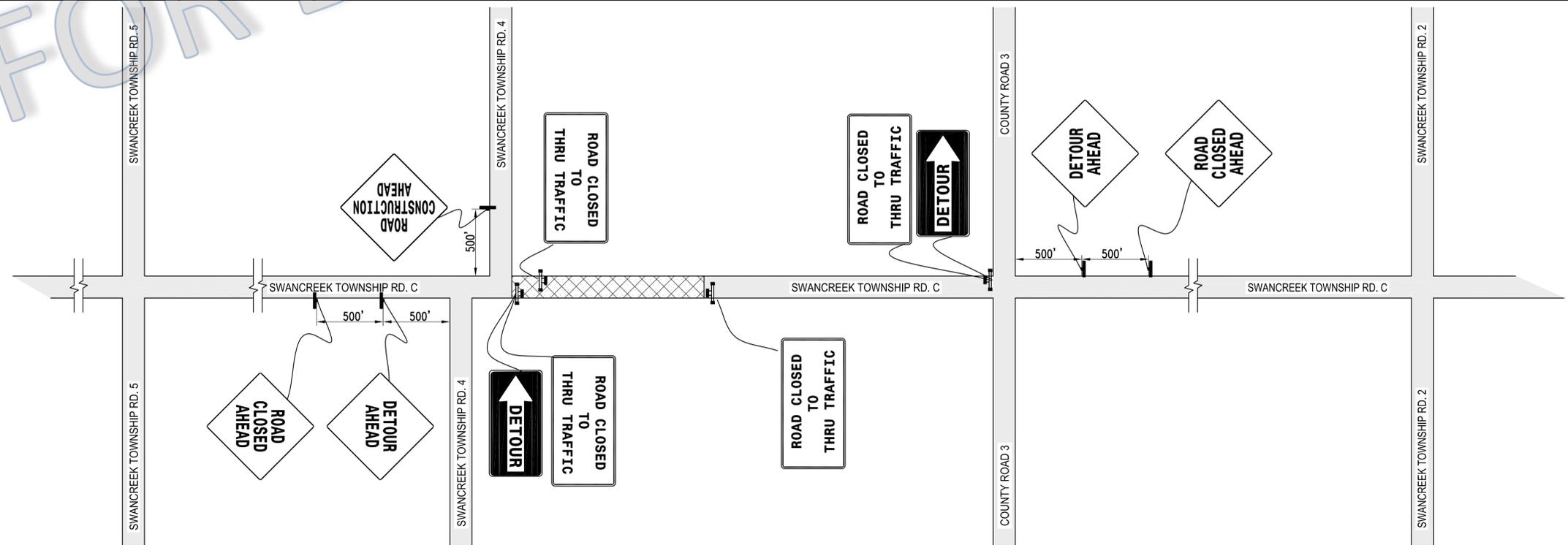
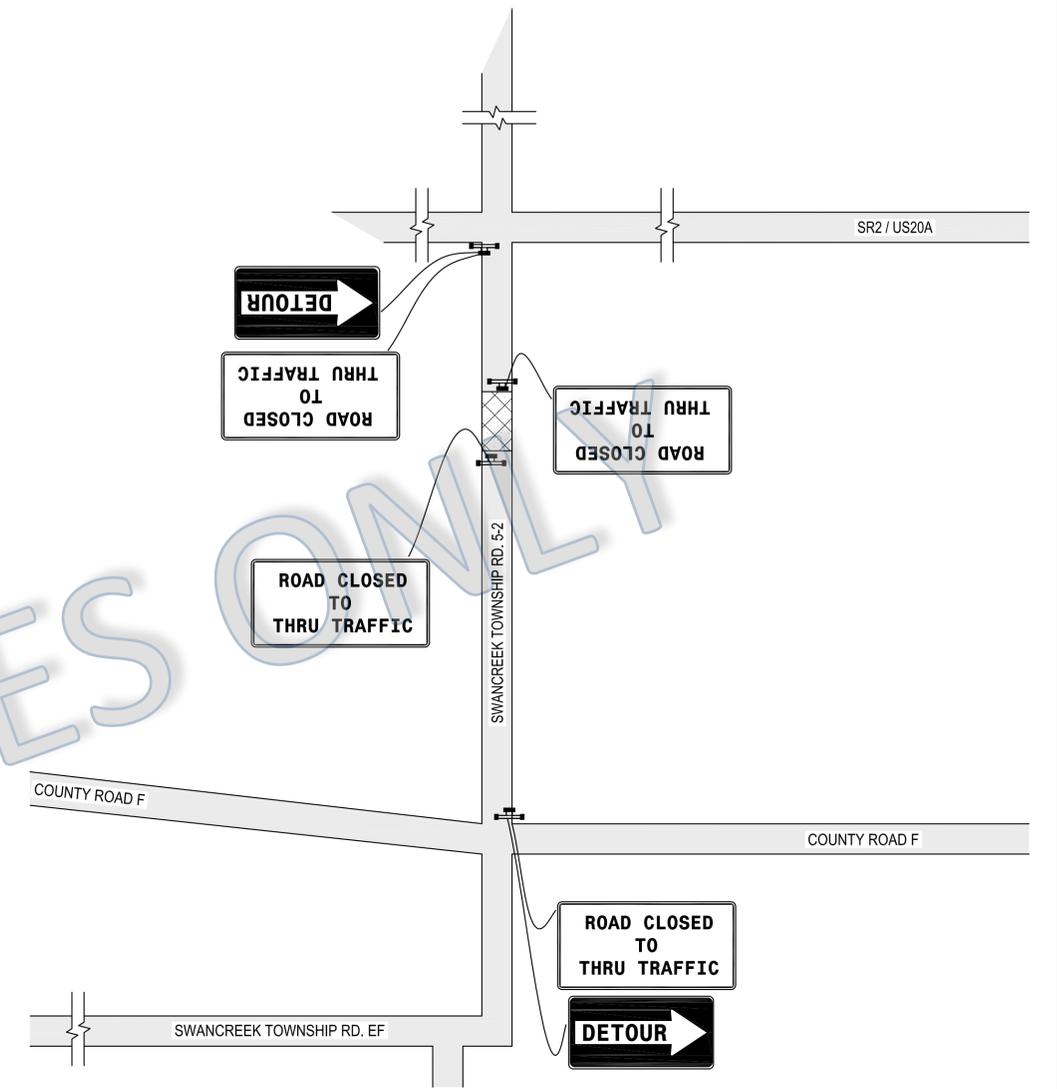
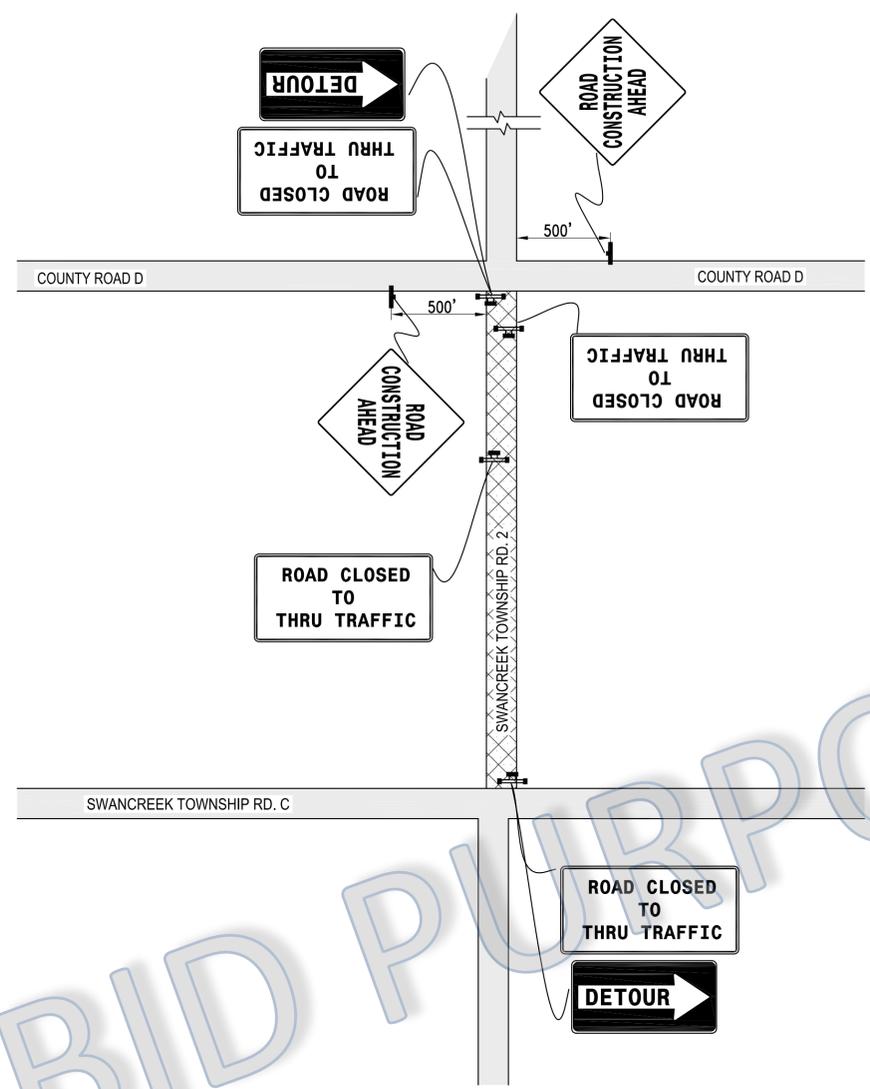
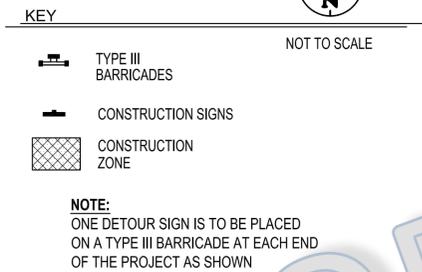
File: C:\Projects\Roads\Township\SwanCreek\Combined ditches project\dwg\Standard Details.dwg - May 22, 2013 - 4:08pm - Fulton County Engineer's Office

Drawn By: HKD/BDL  
Date: 5/20/2013  
Checked By: FTO  
Revised:

SWANCREEK TWP. DITCH IMPROVEMENTS & RESURFACING  
STANDARD DETAILS

FULTON COUNTY ENGINEERING DEPT.  
FRANK T. ONWELLER, P.E., P.S. - COUNTY ENGINEER  
ROD CREAHER, P.E., P.S. - CHIEF DEPUTY ENGINEER  
9120 Co Rd 14, WAUSEON, OHIO, 43667  
PHONE (419)335-3816 FAX (419)335-0391

File: G:\Projects\Roads\Township\SwanCreek\Combined ditches project\dwgs\Maintenance of Traffic.dwg -- May 22, 2013 -- 4:08pm -- Fulton County Engineer's Office



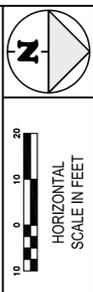
Drawn By: HKD/BDL  
 Date: 5/20/2013  
 Checked By: FTO  
 Revised:  
 SWANCREEK TWP. DITCH IMPROVEMENTS & RESURFACING  
 MAINTENANCE OF TRAFFIC  
 FULTON COUNTY ENGINEERING DEPT.  
 FRANK T. ONWELLER, P.E., P.S. - COUNTY ENGINEER  
 ROD CREAHER, P.E., P.S. - CHIEF DEPUTY ENGINEER  
 9120 Co Rd 14, WAUSEON, OHIO, 43667  
 PHONE (419)335-3816 FAX (419)335-0391

RITA B. ZIELINSKI  
24-045852-00.000  
118.273 ACRES

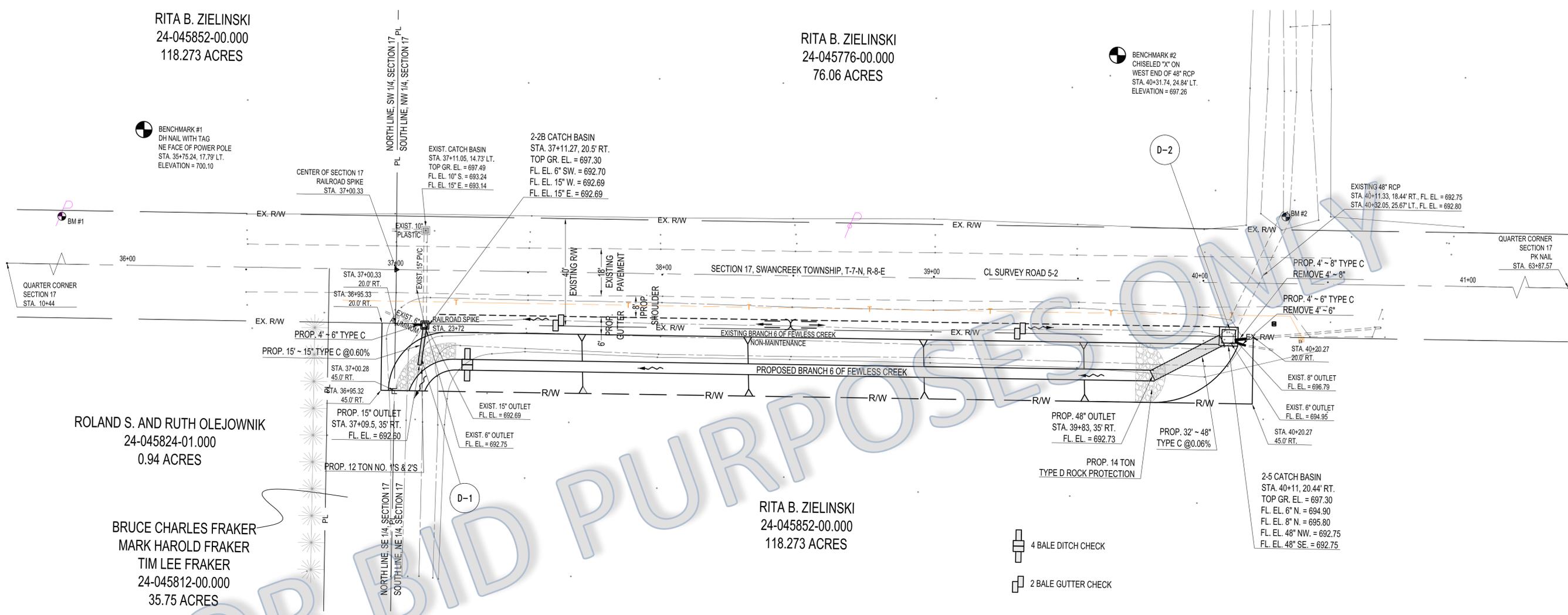
RITA B. ZIELINSKI  
24-045776-00.000  
76.06 ACRES

BENCHMARK #1  
DH NAIL WITH TAG  
NE FACE OF POWER POLE  
STA. 35+75.24, 17.79' LT.  
ELEVATION = 700.10

BENCHMARK #2  
CHISELED "X" ON  
WEST END OF 48" RCP  
STA. 40+31.74, 24.84' LT.  
ELEVATION = 697.26



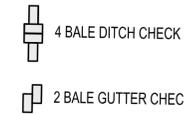
Drawn By: HKD/BDL  
Checked By: FTO  
Date: 5/20/2013  
Revised:



ROLAND S. AND RUTH OLEJOWNIK  
24-045824-01.000  
0.94 ACRES

BRUCE CHARLES FRAKER  
MARK HAROLD FRAKER  
TIM LEE FRAKER  
24-045812-00.000  
35.75 ACRES

RITA B. ZIELINSKI  
24-045852-00.000  
118.273 ACRES

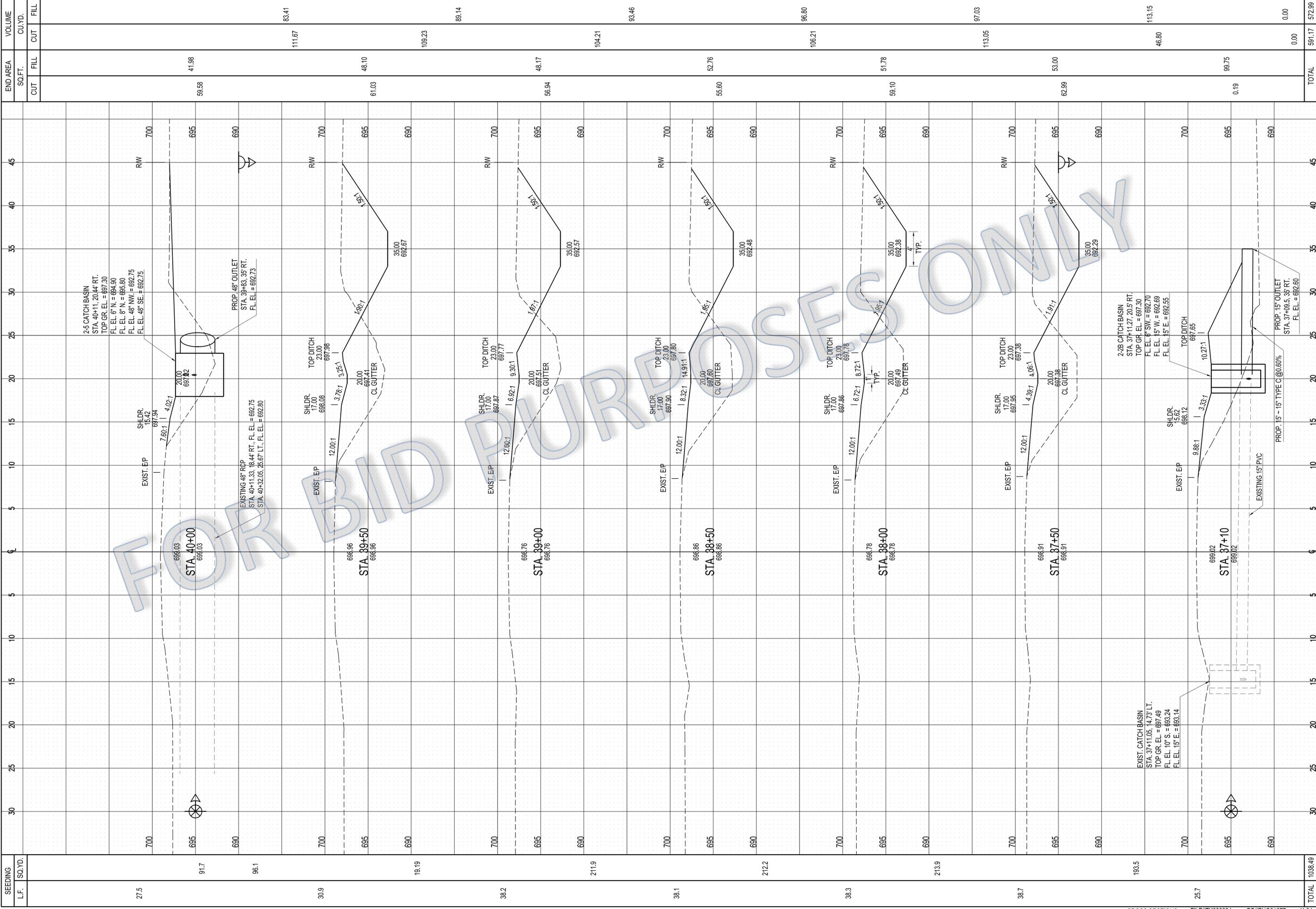


PROP. GUTTER RT.	PROP. DITCH RT.	EXIST. CL ELEVATIONS
675	685	695
680	690	700
685	695	705
690	700	710

SWANCREEK TWP. DITCH IMPROVEMENTS & RESURFACING  
TWP. RD. 5-2 ~ PLAN & PROFILE ~ STA. 36+00 TO STA. 41+00

FULTON COUNTY ENGINEERING DEPT.  
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9120 Co Rd 14, WAUATON, OHIO, 43067  
PHONE (419) 335-3616 FAX (419) 335-1081

File: G:\Projects\Roads\Township\Swancreek\Road 5-2 (F to SR2) ditch\dwg\RCp01001.dwg - May 22, 2013 - 4:07pm - Fulton County Engineer's Office



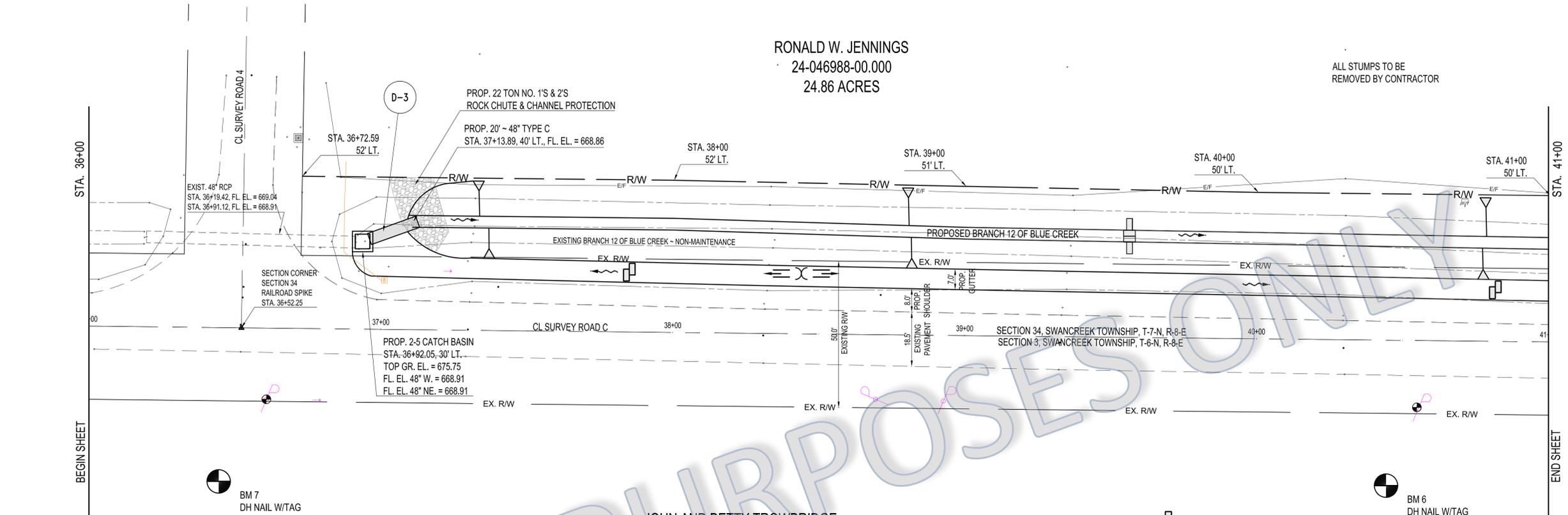
SEEDING L.F.	SO.YD.	END AREA SQ.FT.	FILL	CUT	FILL	VOLUME CUYD.
27.5	91.7	41.98	59.58			111.67
30.9	96.1					83.41
38.2	19.19					89.14
38.3	21.19					83.46
212.2	38.1					93.46
38.7	213.9					96.80
193.5	25.7					96.80
TOTAL	1038.49	TOTAL	591.17	0.00	572.99	113.15



Date: 5/20/2013  
 Drawn By: HKD/BDL  
 Checked By: FTO

SWAN CREEK TWP. DITCH IMPROVEMENTS & RESURFACING  
 TWP. RD. 5-2 ~ CROSS SECTIONS ~ STA. 37+10 TO STA. 40+00

FULTON COUNTY ENGINEERING DEPT.  
 FRANK T. OWELLER, P.E., P.S. - COUNTY ENGINEER  
 ROD CREAGER, P.E., P.S. - CHIEF DEPUTY ENGINEER  
 9720 Co. Rd. 14, WAUSEON, OHIO 43887  
 PHONE (419) 335-3616 FAX (419) 335-1091

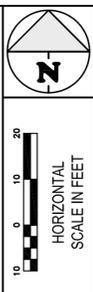


RONALD W. JENNINGS  
24-046988-00.000  
24.86 ACRES

JOHN AND BETTY TROWBRIDGE  
25-047388-00.000  
34.63 ACRES

ALL STUMPS TO BE  
REMOVED BY CONTRACTOR

690	676.88	676.74	677.09	677.17	677.16	676.99	676.86	676.87	676.84	676.78
685										
680										
675										
670										
665										
660										
655										
36+00	37+00	38+00	39+00	40+00	41+00					

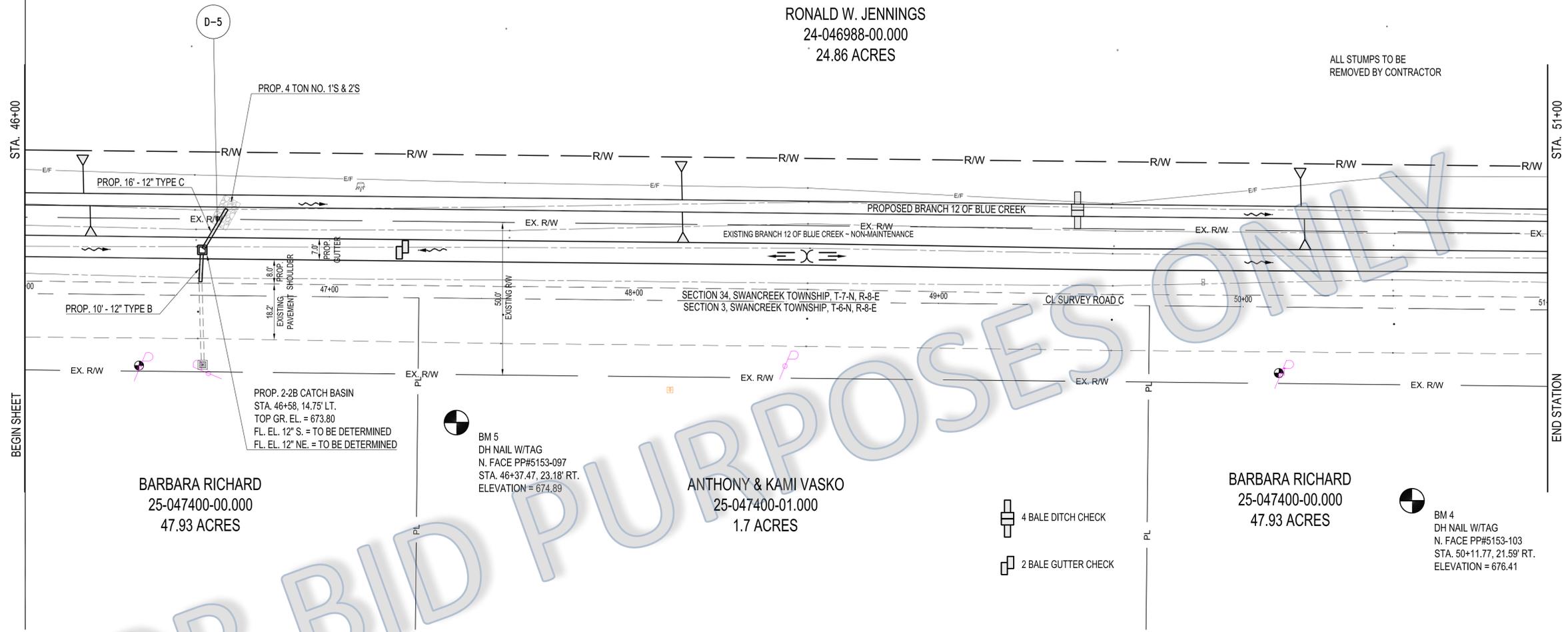


Drawn By: HKD/BDL  
Checked By: FTO  
Date: 5/20/2013  
Revised:

SWANCREEK TWP. DITCH IMPROVEMENTS & RESURFACING  
TWP. RD. C ~ PLAN & PROFILE ~ STA. 36+00 TO STA. 41+00

FULTON COUNTY ENGINEERING DEPT.  
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9120 Co Rd 14, WAUSEON, OHIO 43567  
PHONE (419)335-3616 FAX (419)335-1081





RONALD W. JENNINGS  
24-046988-00.000  
24.86 ACRES

BARBARA RICHARD  
25-047400-00.000  
47.93 ACRES

ANTHONY & KAMI VASKO  
25-047400-01.000  
1.7 ACRES

BARBARA RICHARD  
25-047400-00.000  
47.93 ACRES



ALL STUMPS TO BE REMOVED BY CONTRACTOR

STATION	PROP. GUTTER LT. ELEVATION	PROP. DITCH LT. ELEVATION	EXIST. CL. ELEVATIONS
46+00	674.03	667.95	690
46+58	673.83	667.90	685
47+00	673.98	667.84	680
47+58	674.18	667.79	675
48+00	674.39	667.74	670
48+57	674.60 G.B.	667.69	665
49+00	674.39	667.63	660
49+58	674.18	667.58	655
50+00	673.97	667.53	
50+58	673.76	667.47	
51+00	673.55	667.42	



HORIZONTAL SCALE IN FEET

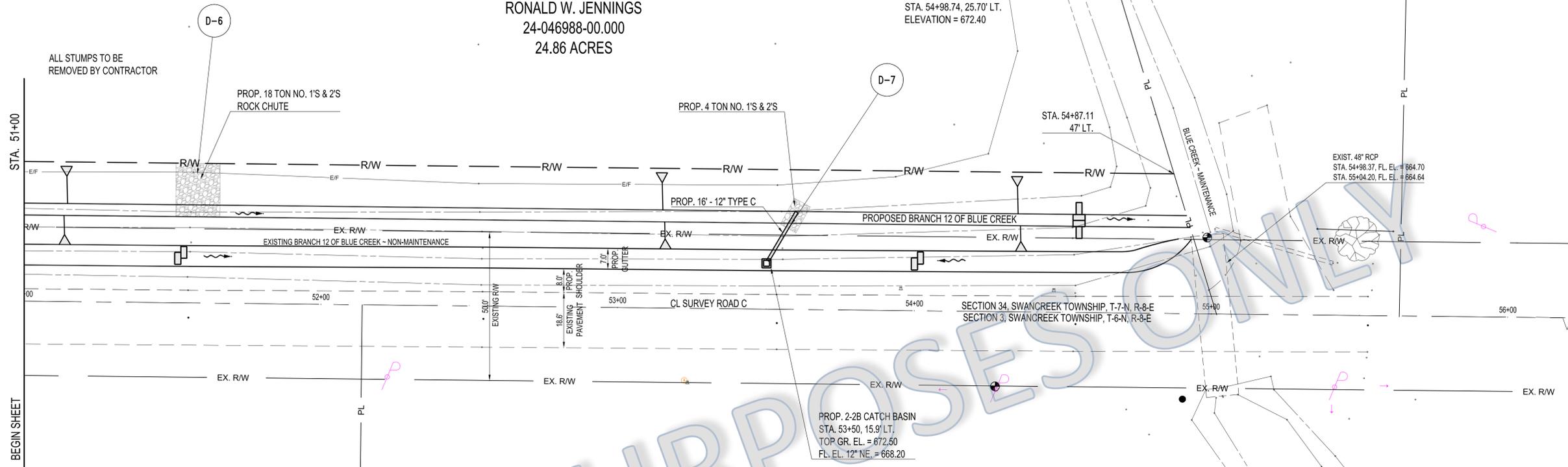
Drawn By: HKD/BDL  
Checked By: FTO

Date: 5/20/2013  
Revised:

SWANCREEK TWP. DITCH IMPROVEMENTS & RESURFACING  
TWP. RD. C ~ PLAN & PROFILE ~ STA. 46+00 TO STA. 51+00

FULTON COUNTY ENGINEERING DEPT.  
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PROP. GUTTER LT.	PROP. DITCH LT.	EXIST. CL ELEVATIONS
650	665	685
655	660	680
660	655	675
665	650	670
670	645	665
675	640	660
680	635	655
685	630	650

FEMA RM35  
NAIL  
STA. 54+98.74, 25.70' LT.  
ELEVATION = 672.40

BM 3  
DH NAIL W/TAG  
N. FACE PP#5153-108  
STA. 54+27.20, 25.15' RT.  
ELEVATION = 673.51

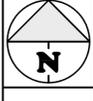
PROP. 2-2B CATCH BASIN  
STA. 53+50, 15.9' LT.  
TOP GR. EL. = 672.50  
FL. EL. 12" NE. = 668.20

EXIST. 48" RCP  
STA. 54+98.37, FL. EL. = 664.70  
STA. 55+04.20, FL. EL. = 664.64

BARBARA RICHARD  
25-047400-00.000  
47.93 ACRES

RANDY & RENEE WALKER  
25-047336-00.000  
49.00 ACRES

RONALD W. JENNINGS  
24-046988-00.000  
24.86 ACRES



HORIZONTAL  
SCALE IN FEET

Drawn By:  
HKD/BDL

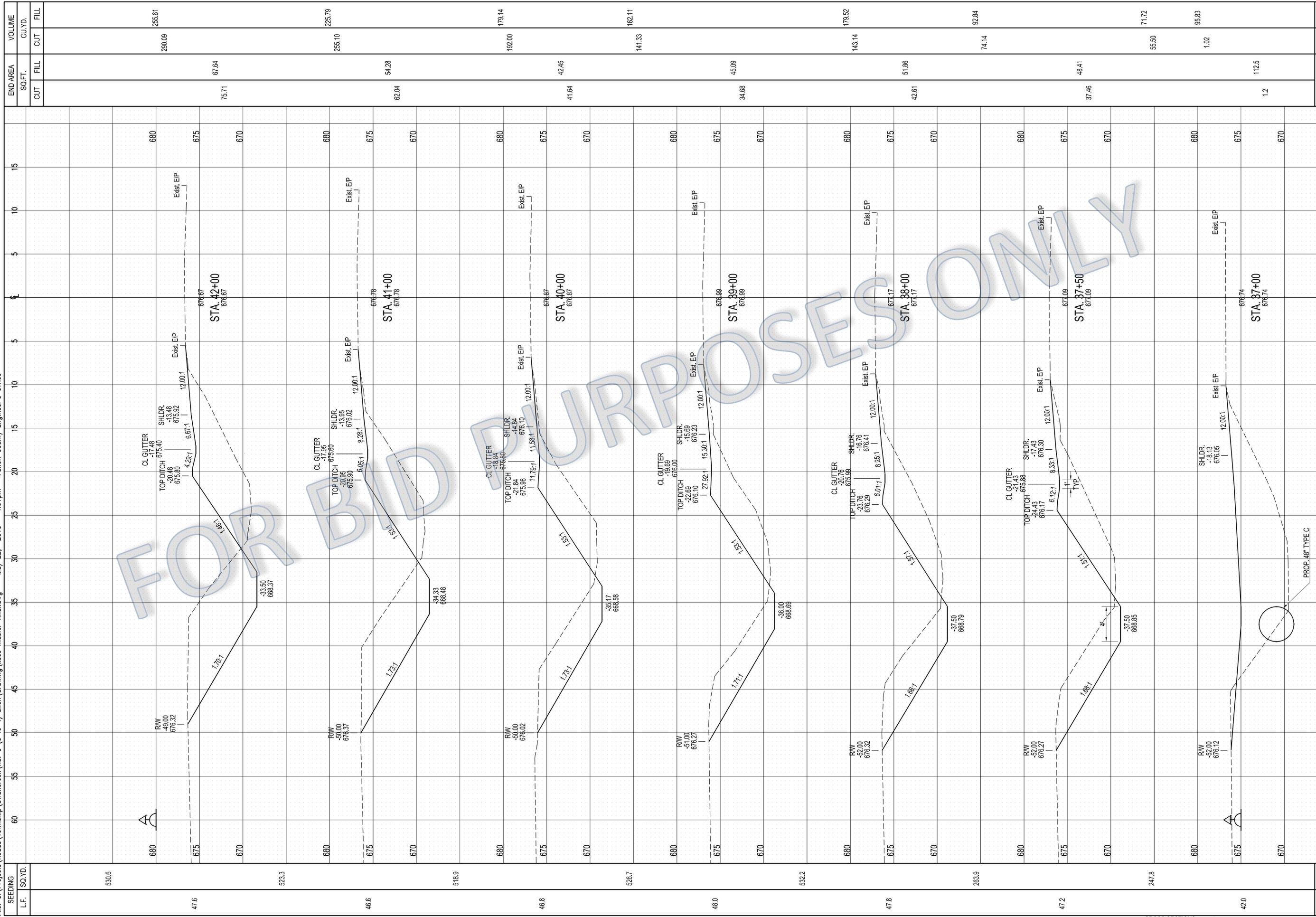
Date: 5/20/2013

Checked By:  
FTO

Revised:

SWANCREEK TWP. DITCH IMPROVEMENTS & RESURFACING  
TWP. RD. C ~ PLAN & PROFILE ~ STA. 51+00 TO STA. 56+00

FULTON COUNTY ENGINEERING DEPT.  
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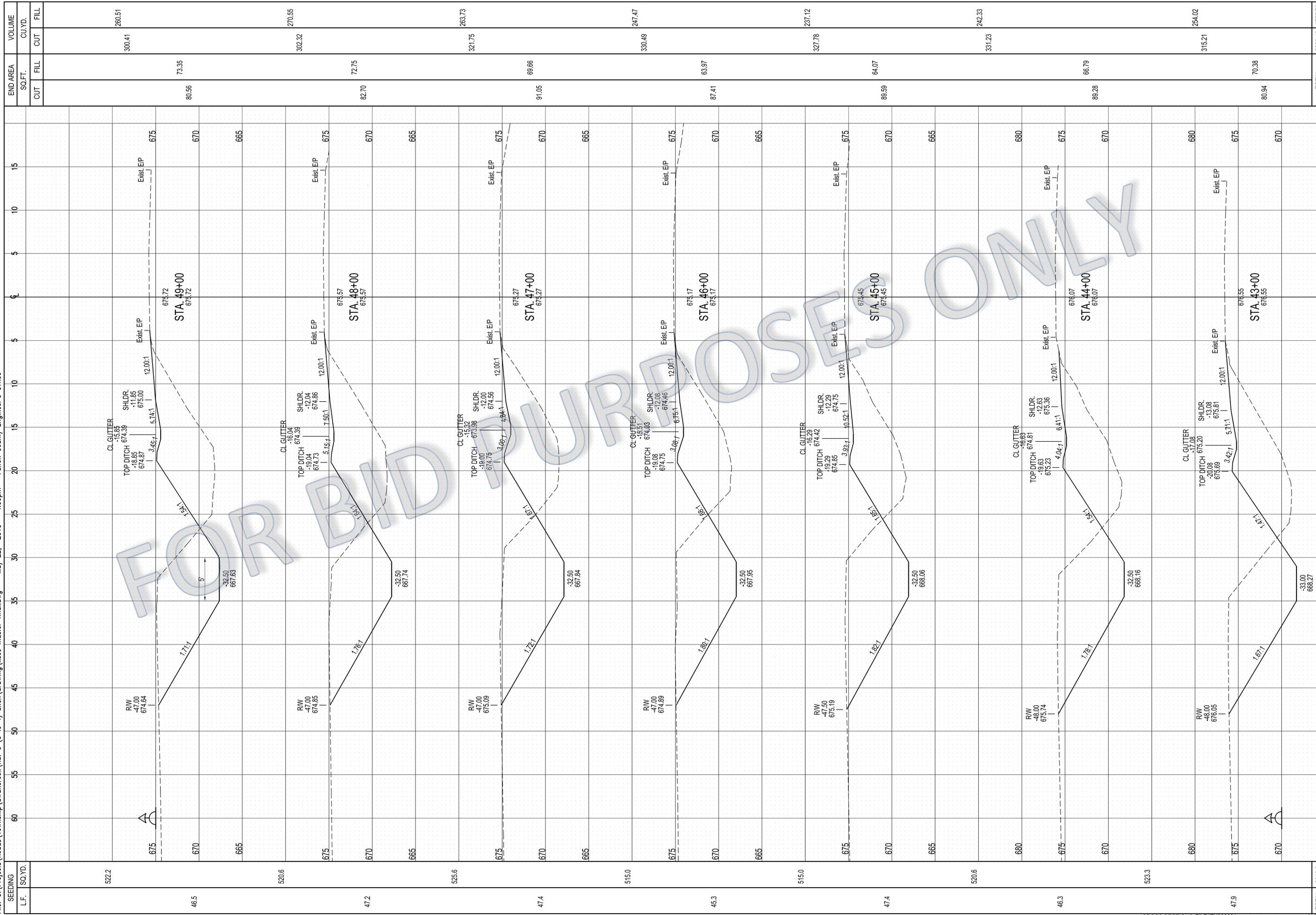
SEEDING L.F.	SO.YD.	END AREA SQ.FT.	VOLUME CU.YD.	FILL	CUT	FILL	CUT
47.6	530.6	75.71	290.09			255.61	
46.6	523.3	62.04	255.10			225.79	
46.8	518.9	41.64	192.00			179.14	
48.0	526.7	34.68	141.33			162.11	
47.8	532.2	42.61	143.14			176.52	
47.2	263.9	37.46	74.14			92.84	
42.0	247.8	112.5	55.50			71.72	
TOTAL	3143.4	TOTAL	1164.63	1200.79			



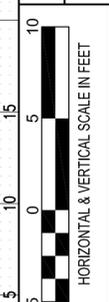
SWANCREEK TWP. DITCH IMPROVEMENTS & RESURFACING  
TWP. RD. C - CROSS SECTIONS - STA. 37+00 TO STA. 42+00

FULTON COUNTY ENGINEERING DEPT.  
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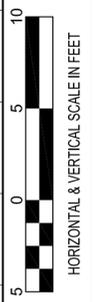
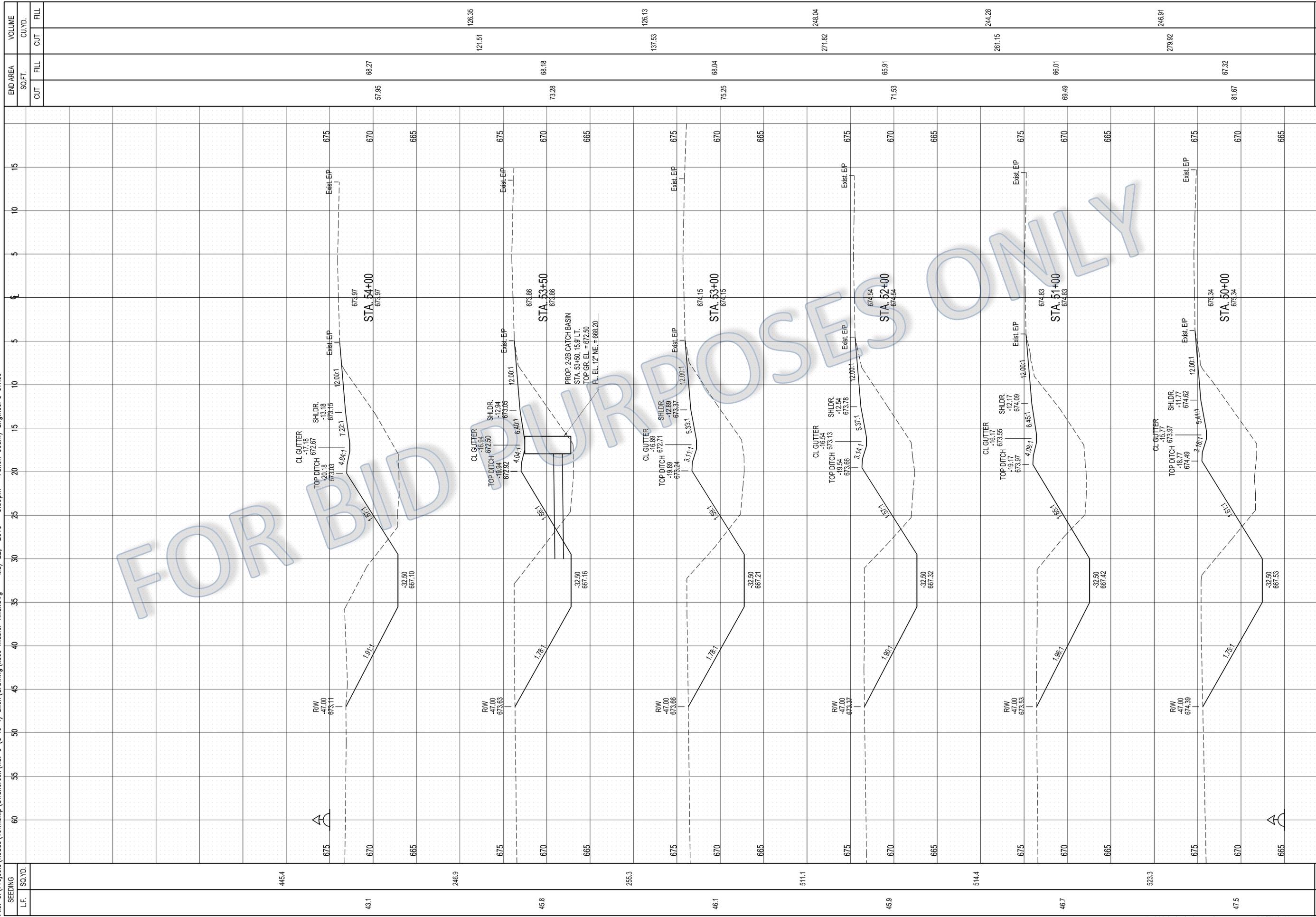
SEEDING L.F.	SQ.YD.	TOTAL	END AREA		VOLUME CUYD.
			CUT	FILL	
46.5	522.2	300.41	80.56	73.35	260.51
47.2	520.6	302.32	82.70	72.75	270.55
47.4	525.6	321.75	91.05	69.66	263.73
47.4	515.0	330.49	91.05	63.97	247.47
46.3	515.0	327.78	87.41	64.07	237.12
47.4	520.6	331.23	89.59	66.79	242.33
46.3	523.3	315.21	89.28	66.79	254.02
47.9	523.3	315.21	80.94	70.38	254.02
TOTAL	3642.3	2229.19	TOTAL	1775.73	



SWAN CREEK TWP. DITCH IMPROVEMENTS & RESURFACING  
 TWP. RD. C ~ CROSS SECTIONS ~ STA. 43+00 TO STA. 49+00

FULTON COUNTY ENGINEERING DEPT.  
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 ROD CREAGER, P.E., P.S., CHIEF DEPUTY ENGINEER  
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 PHONE (419) 335-3816 FAX (419) 335-1091

17  
 3



SWANCREEK TWP. DITCH IMPROVEMENTS & RESURFACING  
 TWP. RD. C ~ CROSS SECTIONS ~ STA. 50+00 TO STA. 54+00

FULTON COUNTY ENGINEERING DEPT.  
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