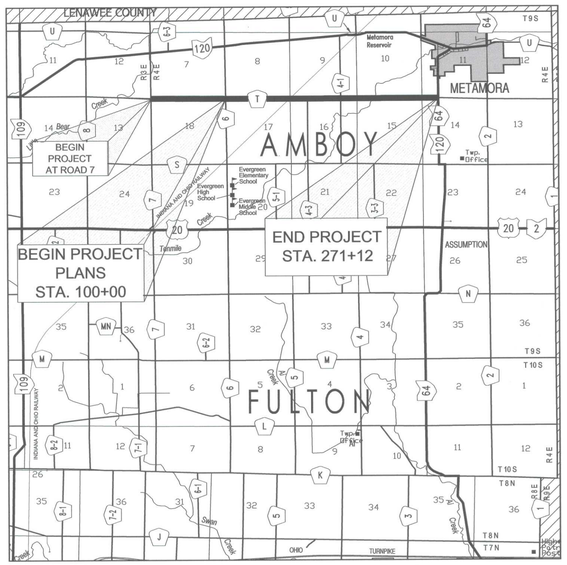

LOCATION MAP

SCALE: 1" = 5000'

FULTON COUNTY

DEPARTMENT OF HIGHWAYS

FULTON COUNTY ROAD T

BETWEEN TWP. RD. 7 & STATE ROUTE 64

AMBOY TOWNSHIP, FULTON CO., OHIO

2012

LEGEND

PORTION TO BE IMPROVED .....
STATE AND FEDERAL ROUTES .....
OTHER ROADS.....

DESIGN DESIGNATION

CURRENT ADT (2010)	589
DESIGN YEAR ADT (2032)	866
DESIGN HOURLY VOLUME (2032)	104
TRUCKS (24 HOUR B & C)	5%
FUNCTIONAL CLASSIFICATION	RURAL LOCAL ROAD

UTILITIES

CENTURYLINK
375 EAST RIVERVIEW
NAPOLEON, OHIO 43545
PH. 419-599-4030
PH. 419-592-9706
PHONE AND FIBER
ALONG ROAD T

THE INDIANA & OHIO RAIL SYSTEM
2856 CYPRESS WAY
CINCINNATI, OHIO 45212
PH. 513-860-1000, EXT. 130

QWEST COMMUNICATIONS COMPANY
700 W. MINERAL AVE.
LITTLTON, CO 80120
PH. 303-886-1299
FIBER PARALLEL TO IORR

TOLEDO EDISON
6099 ANGOLA ROAD
"B" BLDG., STOP 2330
HOLLAND, OH 43528
PH. 1-800-447-3333

FULTON COUNTY SANITARY ENGINEER
152 S. FULTON ST.
WAUSEON, OH 43567
PH. 419-337-9263
WATERLINE PARALLEL TO IORR

UNDERGROUND UTILITIES

TWO WORKING DAYS
BEFORE YOU DIG
CALL 1-800-362-2764 (TOLL FREE)
OHIO UTILITIES PROTECTION SERVICE
NON-MEMBERS
MUST BE CALLED DIRECTLY

VERTICAL DATUM

ALL VERTICAL CONTROL
IS BASED OFF
NAVD 88 (U.S.G.S.) DATUM

(SEE GENERAL NOTES FOR BENCH MARK LOCATION)

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STANDARD CONSTRUCTION DRAWINGS		SUPPLEMENTAL SPECIFICATIONS
DRAWING	DATE	DESC.
BP-3.1 ASPHALT PAVING	10-19-07	SS 800
CB-1.1 CATCH BASIN NO. 2-2B	7-15-05	
CB-1.2 CATCH BASIN NO. 2-3	7-15-05	
DM-4.4 CONSTRUCTION EROSION CONTROL	10-21-11	
GR-2.1 GUARDRAIL TYPE 5 AND 5A	1-16-04	
GR-4.1 TYPE A ANCHOR ASSEMBLY	1-21-11	
DBR-2-73 DEEP BEAM BRIDGE GUARDRAIL	7-19-02	
DS-1-92 DRIP STRIP FOR STRUCTURES	7-18-03	
PSBD-1-93 PRE STRESSED CONCRETE BOX BEAM	4-20-07	

PROJECT DESCRIPTION

A PARTIALLY O.P.W.C. FUNDED PROJECT CONSISTING OF WIDENING AND RESURFACING OF THE EXISTING ROADWAY FROM 17' TO 20', RECONSTRUCTION OF SHOULDERS AND GUTTERS, IMPROVEMENT TO SUBSURFACE DRAINAGE, REPLACEMENT OF STRUCTURES T64.9 AND 4-3S.9, 4300' OF DITCH SETBACK AND 2080' OF DITCH ENCLOSURE OF BR. 7h OF TEN MILE CREEK.

2010 SPECIFICATIONS

THE STANDARD SPECIFICATIONS OF THE STATE OF OHIO, DEPARTMENT OF TRANSPORTATION, INCLUDING CHANGES AND SUPPLEMENTAL SPECIFICATIONS LISTED IN THE PROPOSAL SHALL GOVERN THIS IMPROVEMENT.

PLAN & PROFILE SCALES:

20 0 20 40

HORIZONTAL SCALE IN FEET

5 0 5 10

VERTICAL SCALE IN FEET

CROSS SECTION SCALES:

5 0 5 10

HORIZONTAL SCALE IN FEET

5 0 5 10

VERTICAL SCALE IN FEET

I HEREBY APPROVE THESE PLANS AND DECLARE THAT THE MAKING OF THIS IMPROVEMENT WILL REQUIRE THE CLOSING TO TRAFFIC OF THE HIGHWAY AND THAT DETOURS WILL BE PROVIDED.

APPROVED Dean A Genter
DATE 2/13/12 DEAN GENTER, FULTON COUNTY COMMISSIONER

APPROVED Paul D Barnaby
DATE 2/13/2012 PAUL BARNABY, FULTON COUNTY COMMISSIONER

APPROVED
DATE 2/13/12 PERRY RUPP, FULTON COUNTY COMMISSIONER

APPROVED Frank T Onweller
DATE 2/13/12 FRANK T. ONWELLER, P.E., P.S., FULTON COUNTY ENGINEER

Drawn By: HKD/BDL | Checked By: FTO
Date: 2/13/2012 | Revised: N/A N/A

FULTON COUNTY ROAD T (CO. RD. 7 TO S.R. 64)
TITLESHEET PROJECT LIMITS ~ STA. 100+00 TO STA. 271+00

FULTON COUNTY ENGINEERING DEPT.
FRANK T. ONWELLER, P.E., P.S. - COUNTY ENGINEER
ROD CREAGER, P.E., P.S. - CHIEF DEPUTY ENGINEER
9120 Co Rd 14, WAUSEON, OHIO, 43567
PHONE (419)335-3816 FAX (419)335-1091

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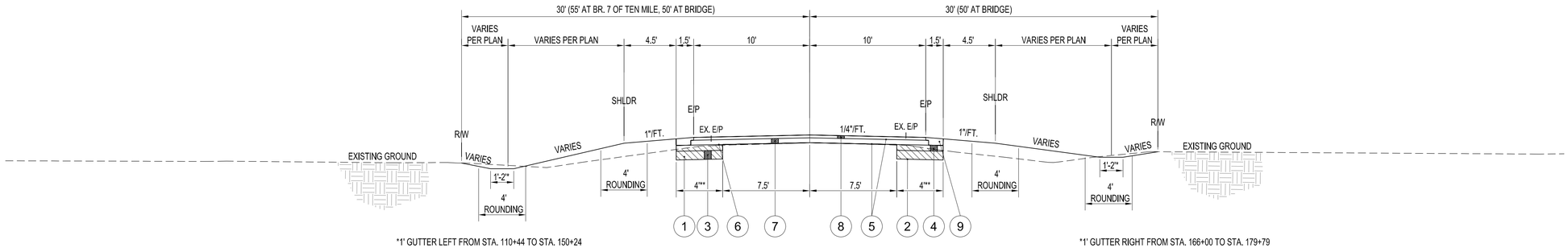


*1' GUTTER LEFT FROM STA. 110+44 TO STA. 150+24
1' GUTTER LEFT FROM STA. 209+01 TO STA. 271+00
2' GUTTER LEFT FROM STA. 192+60 TO STA. 209+00

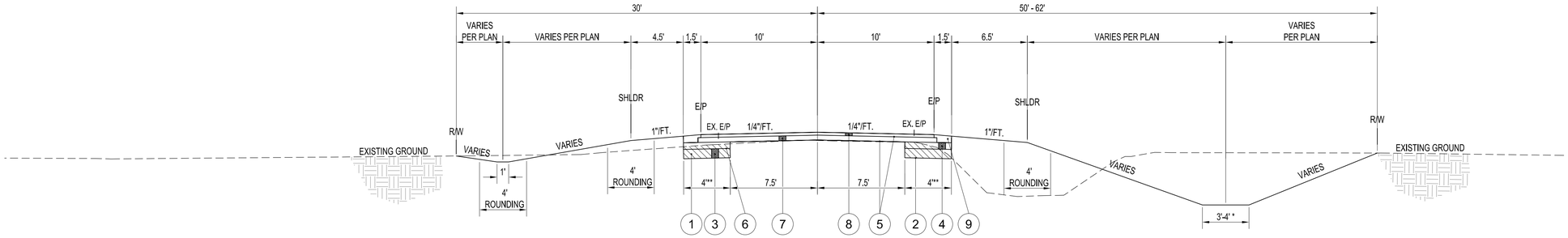
TYPICAL SECTION 1

NOT TO SCALE

STA. 110+44 TO STA. 120+45
STA. 128+88 TO STA. 130+86
STA. 140+73 TO STA. 143+35
STA. 153+87 TO STA. 156+30
STA. 165+30 TO STA. 271+00

*1' GUTTER RIGHT FROM STA. 166+00 TO STA. 179+79
1' GUTTER RIGHT FROM STA. 187+01 TO STA. 192+59
1' GUTTER RIGHT FROM STA. 209+01 TO STA. 271+00
2' GUTTER RIGHT FROM STA. 179+80 TO STA. 187+00
2' GUTTER RIGHT FROM STA. 192+60 TO STA. 209+00

** SEE "EXTRA WIDENING TABLE" ON SHEET 8. SOME AREAS ARE WIDER THAN 4'.



TYPICAL SECTION 2

NOT TO SCALE

STA. 100+60 TO STA. 110+44
STA. 120+45 TO STA. 128+88
STA. 130+86 TO STA. 140+73
STA. 143+35 TO STA. 153+87
STA. 156+30 TO STA. 165+30

* 3' DITCH RIGHT FROM STA. 101+02 TO STA. 150+24
4' DITCH RIGHT FROM STA. 151+04 TO STA. 165+30

** SEE "EXTRA WIDENING TABLE" ON SHEET 8. SOME AREAS ARE WIDER THAN 4'.

LEGEND

1	ITEM 202	EXCAVATION FOR PAVEMENT WIDENING T = 10"	4	ITEM 301	ASPHALT CONCRETE BASE FOR WIDENING, T = 4"	7	ITEM 448	ASPHALT CONCRETE, INTERMEDIATE COURSE, TYPE 2, PG 64-22, T = 2.5"
2	ITEM 204	SUBGRADE COMPACTION	5	ITEM 407	TACK COAT, 0.08 GAL./S.Y.	8	ITEM 448	ASPHALT CONCRETE, SURFACE COURSE, TYPE 1, PG 64-22, T = 1.5"
3	ITEM 304	AGGREGATE BASE FOR WIDENING, T = 6"	6	ITEM 408	PRIME COAT, 0.40 GAL./S.Y.	9	ITEM 617	RECONDITIONING OF SHOULDERS (1.5' X 4") APPROVED MATERIAL: 411

Drawn By: HKD/BDL
Checked By: FTO
Date: 2/13/2012
Revised: N/A N/A

FULTON COUNTY ROAD T (CO. RD. 7 TO S.R. 64)
TYPICAL SECTIONS

FULTON COUNTY ENGINEERING DEPT.
FRANK T. CONWELL P.E., P.S. - COUNTY ENGINEER
ROD CREAGER, P.E., P.S. - CHIEF DEPUTY ENGINEER
9120 Co Rd 14, WAUSEON, OHIO. 43567
PHONE (419)335-3816 FAX (419)335-1091

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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 O.R.C.

UTILITIES

LISTED ON THE TITLESHEET ARE ALL KNOWN UTILITIES LOCATED WITHIN THE PROJECT CONSTRUCTION LIMITS TOGETHER WITH THEIR RESPECTIVE OWNERS.

HIGHWAY EASEMENTS

THE FULTON COUNTY COMMISSIONERS AND AMBOY 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

ALL ELEVATIONS ARE REFERRED TO A DOUBLE HEAD NAIL WITH FULTON COUNTY TAG IN THE SOUTH FACE OF A POWER POLE, STA. 177+34.50, 28.96' LT., ELEVATION 728.41, NAVD 88 (U.S.G.S. DATUM). ADDITIONAL 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 #8. 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. 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 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 THE CONNECTIONS SHALL BE PAID FOR UNDER THE RESPECTIVE CONDUIT ITEM, UNLESS OTHERWISE NOTED.

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.

PIPE FITTINGS

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

DRAINAGE WITHIN PAVEMENT LIMITS

ALL ITEM 202 PIPE REMOVAL TRENCHES AND ALL PROPOSED CROSSOVER 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 #6. 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 #5.

STORM CONNECTIONS

ALL CONNECTIONS TO THE 30" OR 36" PIPE SHALL BE MADE BY FIELD CORING AND INSTALLING KOR-N-TEE OR INSERTA TEE ASSEMBLIES OR APPROVED EQUAL TO MAKE A WATERTIGHT AND FLEXIBLE CONNECTION.

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 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 (10" AND 12") SHALL MEET ANY OF THE FOLLOWING O.D.O.T. ITEMS: 706.02 (CLASS IV), 707.01.
TYPE D CONDUIT (30" AND 36") SHALL MEET ANY OF THE FOLLOWING O.D.O.T. ITEMS: 706.02 (CLASS II).
TYPE E CONDUIT SHALL MEET ANY OF THE FOLLOWING O.D.O.T. ITEMS: 707.33, 707.42, 707.45.

FOR DRAINAGE ITEM D-22, THE 1 1/2" CONDUIT SHALL BE FLEXIBLE PLASTIC OR RUBBER.

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" AND ALSO OUTLETS INTO THE PROPOSED 30" AND 36" PIPE.

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

ALL PROPOSED CONNECTIONS TO EXISTING STRUCTURES SHALL BE INCLUDED IN THE PAY ITEM OF THE PERTINENT CONDUIT ITEM.

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

ODOT ITEM 706.05 PRECAST REINFORCED CONCRETE BOX SECTIONS SHALL INCLUDE SIZE 9' X 6'.

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. THE ENGINEER SHALL BE NOTIFIED PRIOR TO THE REMOVAL OF ANY TREE OR CROP.

THE EXISTING DITCH SHALL BE SCALPED AND CLEARED OF ANY AND ALL DEBRIS PRIOR TO EMBANKMENT CONSTRUCTION.

THE CONTRACTOR SHALL REMOVE AS INDICATED ON THE PLANS: THE TREE NEAR STA. 103+70, RT.; THE BUSHES BETWEEN STA. 153+65 AND STA. 155+60

PAYMENT FOR ALL 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.

EXCAVATION FOR PAVEMENT WIDENING

EXCAVATION FOR PAVEMENT WIDENING SHALL BE CUT TO THE SPECIFIED WIDTH AND DEPTH AS SHOWN. THE MATERIAL REMOVED WILL INCLUDE SOME EMBANKMENT AND SOME EXISTING PAVEMENT AND BASE MATERIAL. THE OPEN TRENCH SHALL BE ADEQUATELY MAINTAINED WITH BARRICADES AT ALL TIMES. PLACEMENT OF THE PROPOSED 304 AND 301 MATERIAL SHALL FOLLOW CLOSE BEHIND EXCAVATION OPERATIONS SO THAT THE LENGTH OF OPEN TRENCH IS KEPT TO A MINIMUM. ANY TRENCHING ACROSS DRIVES SHALL BE IMMEDIATELY REPAIRED SO AS TO PERMIT ACCESS. THE TRENCH MAY BE LEFT OPEN OVERNIGHT BUT MUST BE ADEQUATELY MAINTAINED AND PROTECTED USING DRUMS WITH YELLOW LIGHTS ATTACHED. PROPER DRAINAGE OF THE TRENCH IS THE CONTRACTOR'S RESPONSIBILITY.

ITEM 304 AGGREGATE BASE

MATERIALS FURNISHED FOR THIS ITEM SHALL EXCLUDE ALL SLAG, LIMESTONE ONLY.

ITEM 204 PROOF ROLLING OF WIDENING TRENCH

THE CONTRACTOR SHALL PROOF ROLL THE SUBGRADE AND ANY OTHER AREAS AS DIRECTED BY THE ENGINEER. PAYMENT FOR THE ABOVE SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 204, SUBGRADE COMPACTION.

ITEM 411 ~ CRUSHED AGGREGATE BASE FOR DRIVES & MAILBOXES

MATERIALS FURNISHED FOR THIS ITEM SHALL EXCLUDE SLAG, DRIVES REQUIRING 411 SHALL BE PLACED EITHER AS AN OVERLAY TO MEET PROPOSED GRADE OR TO THE MINIMUM DEPTH AS SPECIFIED IN THE APPROACH TABLE.

ITEM 617 ~ RECONDITIONING OF SHOULDERS

APPROVED MATERIAL FOR THIS ITEM SHALL BE IN ACCORDANCE WITH O.D.O.T. ITEM 411, LIMESTONE ONLY.

ITEM 659 SEEDING AND MULCHING

THE SEEDING AND MULCHING IS TO BE PERFORMED BY FULTON COUNTY. THE CONTRACTOR SHALL BE RESPONSIBLE TO RETURN THE LANDOWNERS' FRONTAGE TO ITS ORIGINAL CONDITION OR BETTER. THIS INCLUDES PLACING TOPSOIL WITH A 4" COMPACTED THICKNESS ON ALL FRONTAGE THAT IS MAINTAINED AS LAWN. TOPSOIL PLACED IN LAWN AREAS SHALL BE FREE OF STONE AND OTHER FOREIGN OBJECTS. THE REMAINDER OF THE PROJECT SHALL HAVE TOPSOIL PLACED, ENOUGH SO THAT IT IS SUITABLE FOR SEEDING. THE CONTRACTOR SHALL KEEP THE AMOUNT OF DISTURBED SOIL TO A MINIMUM. IT IS THE INTENT OF FULTON COUNTY TO PERFORM THE SEEDING AND MULCHING ONCE AN AREA HAS REACHED FINAL GRADE. THIS WILL BE COORDINATED WITH THE CONTRACTOR SO THAT THE COUNTY DOES NOT DISTURB THE WORK OF THE CONTRACTOR. PAYMENT FOR THIS WORK SHALL BE INCLUDED IN ITEM 203 EMBANKMENT.

LOAD RESTRICTIONS

THE CONTRACTOR SHALL COMPLY WITH ALL LEGAL LOAD RESTRICTIONS IN THE HAULING OF MATERIALS BOTH ON AND OFF SITE.

LOCAL DRIVE ACCESS

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

EROSION CONTROL

THE CONTRACTOR SHALL PROVIDE AND INSTALL EROSION CONTROL DEVICES AS PER DETAILS ON SHEET # 5 AND AS DIRECTED BY THE ENGINEER THROUGHOUT THE DURATION OF THE PROJECT AS NEEDED.

THE CONTRACTOR SHALL CONSTRUCT THE INLET PROTECTION FOR THE EXISTING INLETS AT THE BEGINNING OF CONSTRUCTION AND FOR THE NEW INLETS IMMEDIATELY AFTER COMPLETING THE INLET. EROSION CONTROL DEVICES SHALL BE REMOVED BY THE CONTRACTOR ONCE SUFFICIENT VEGETATION IS ESTABLISHED.

EXISTING ROCK/CONCRETE MEETING THE PROPER GRADATION CAN BE REUSED AS TYPE D ROCK PROTECTION OR NO. 1'S AND 2'S, AS APPROVED BY THE ENGINEER. THE EXISTING TIRE HEADWALLS FROM THE DRIVE AT STA. 119+78 MAY BE REUSED IN LEU OF TYPE D ROCK PROTECTION, AS APPROVED BY THE ENGINEER.

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.

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 #10).

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 THROUGH THE DURATION OF THE PROJECT.

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

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.

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 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.

RAILROAD SYMBOL MARKING

THE RAILROAD SYMBOL MARKINGS SHALL BE PLACED IN ACCORDANCE WITH O.D.O.T. SPECIFICATION 642 AND OMUTCD PART 10. STOP BARS SHALL BE PLACED ON EACH SIDE OF THE RAILROAD CROSSING. THE COST OF THE STOP BARS SHALL BE INCLUDED IN ITEM 642, RAILROAD SYMBOL MARKING, TYPE 1.

BRIDGE PLANS

FOR THE DIFFERENCES IN THE APPROACH WORK TO THE BRIDGE ON THE ROAD PLAN AND PROFILE AND THE BRIDGE PLAN AND PROFILE, THE ROAD PLAN AND PROFILE SHALL CONTROL.

Drawn By: HKD/BDL | Checked By: FTO
Date: 2/13/2012 | Revised: N/A | N/A

FULTON COUNTY ROAD T (CO. RD. 7 TO S.R. 64)
GENERAL NOTES

FULTON COUNTY ENGINEERING DEPT.
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RAILROAD GENERAL NOTES

MINIMUM SAFETY REQUIREMENTS FOR CONTRACTORS

SAFETY OF PERSONNEL, PROPERTY, RAIL OPERATIONS AND THE PUBLIC IS OF PARAMOUNT IMPORTANCE IN THE PERFORMANCE OF WORK. AS REINFORCEMENT AND IN FURTHERANCE OF OVERALL SAFETY MEASURES TO BE OBSERVED WHILE ON RAILROAD PROPERTY BY THE CONTRACTOR (AND NOT BY WAY OF LIMITATION), THE FOLLOWING SPECIAL SAFETY RULES SHALL BE FOLLOWED:

THE CONTRACTOR SHALL KEEP THE JOB SITE FREE FROM SAFETY AND HEALTH HAZARDS AND ENSURE THAT ITS EMPLOYEES ARE COMPETENT AND ADEQUATELY TRAINED IN ALL SAFETY AND HEALTH ASPECTS OF THE JOB. THE CONTRACTOR SHALL HAVE THE PROPER FIRST-AID SUPPLIES AVAILABLE ON THE JOB SITE SO THAT PROMPT FIRST-AID SERVICES CAN BE PROVIDED TO ANY PERSON THAT MAY BE INJURED ON THE JOB SITE. THE CONTRACTOR SHALL PROMPTLY NOTIFY THE RAILROAD OF ANY U.S. OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION REPORTABLE INJURIES OCCURRING TO ANY PERSON THAT MAY ARISE DURING WORK PERFORMED ON THE JOB SITE. THE CONTRACTOR SHALL HAVE A NON-DELEGABLE DUTY TO CONTROL ITS EMPLOYEES, WHILE THEY ARE ON THE JOB SITE OR OTHER PROPERTY OF THE RAILROAD, TO BE CERTAIN THEY DO NOT USE, BE UNDER THE INFLUENCE OF, OR HAVE IN THEIR POSSESSION ANY ALCOHOLIC BEVERAGE OR ILLEGALLY OBTAINED DRUG, NARCOTIC OR OTHER SUBSTANCE.

IN ADDITION TO ALL APPLICABLE OSHA, FRA AND OTHER FEDERAL OR STATE REGULATIONS, CONTRACTORS MUST ALSO HAVE COPIES OF AND ADHERE TO THE FOLLOWING RAILROAD POLICIES: RAILAMERICA ROADWAY WORKER PROTECTION & MOFW RULES JAN 1ST, 2010); RAILAMERICA CONTRACTOR SAFETY (U.S.A.); RAILAMERICA ENGINEERING SAFETY RULES (2009)

ALL HEAVY EQUIPMENT PROVIDED OR LEASED BY THE CONTRACTOR SHALL OPERATE IN COMPLIANCE WITH FRA 214 REGULATIONS AND BE EQUIPPED WITH AUDIBLE BACKUP WARNING DEVICES.

IF, IN THE OPINION OF THE RAILROAD REPRESENTATIVE, ANY OF THE CONTRACTOR'S OR ANY OF ITS SUBCONTRACTORS EQUIPMENT IS UNSAFE FOR USE ON THE RAILROAD'S RIGHT OF WAY, THE CONTRACTOR, AT THE REQUEST OF THE RAILROAD REPRESENTATIVE, SHALL REMOVE SUCH EQUIPMENT FROM THE RAILROAD'S RIGHT OF WAY.

RAILROAD PROTECTIVE LIABILITY INSURANCE

CONTRACTORS WORKING ON OR AROUND ANY OF RAILAMERICA'S PROPERTIES ARE REQUIRED TO OBTAIN RAILROAD PROTECTIVE LIABILITY INSURANCE IN THE AMOUNTS OF $2,000,000 PER OCCURRENCE AND $6,000,000 AGGREGATE. MORE INFORMATION REGARDING THE INSURANCE CAN BE FOUND AT HTTP://WWW.RAILAMERICA.COM/REALESTATE/INSURANCE_REQUIREMENTS.ASPX

THERE IS APPROXIMATELY 0 TO 3 TRAINS PER DAY. THERE IS ONE CONDUCTOR AND ONE ENGINEER PER TRAIN WITH NO ADDITIONAL PASSENGERS. THE FREIGHT IS BETWEEN 3000 AND 9000 TON PER TRAIN. A SLOW ORDER DOWN TO 10 MPH CAN BE USED.

THE INSURANCE HEREIN BEFORE SPECIFIED SHALL BE TAKEN OUT BEFORE EXECUTION OF THE CONTRACT AND KEPT IN EFFECT UNTIL ALL WORK REQUIRED TO BE PERFORMED UNDER THE TERMS OF THE CONTRACT IS SATISFACTORILY COMPLETED AS EVIDENCED BY THE FORMAL ACCEPTANCE BY THE ENGINEER. THE CONTRACTOR SHALL FURNISH TO THE ENGINEER A CERTIFIED COPY OF THE POLICY.

PAYMENT FOR ALL THE ABOVE SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM SPECIAL, PREMIUM FOR RAILROAD PROTECTIVE PUBLIC LIABILITY AND PROPERTY DAMAGE LIABILITY INSURANCE.

36" CONDUIT, TYPE A - CASING PIPE SPECIFICATIONS

THE 36" CONDUIT, TYPE A MUST HAVE A STEEL ENCASEMENT PIPE.

THE STEEL PIPE SHALL HAVE A SPECIFIED MINIMUM YIELD STRENGTH, SMYS, OF AT LEAST 35,000 PSI.

THE STEEL CASING PIPE SHALL HAVE A 48" DIAMETER.

THE OUTSIDE OF THE CASING PIPE SHALL BE PROTECTED BY BLACK BITUMINOUS COATING FOR PROTECTION AGAINST CORROSION.

THE WALL THICKNESS OF THE STEEL CASING PIPE SHALL BE 0.688".

ALL CASING PIPE JOINTS WILL BE WELDED IN ACCORDANCE WITH AISC SPECIFICATIONS, SECTION 1-7-2. ALL JOINT WELDS WILL BE FULL PENETRATION.

BORE AND JACKING MUST BE CONTINUOUS ONCE THE PIPE IS SUBJECT TO RAILROAD LIVE LOADING.

ANY NECESSARY SHORING MUST MEET AREMA REQUIREMENTS.

INSTALLATION SHALL FOLLOW THE BORING DETAILS SHOWN ON SHEET #7.

A RAILROAD INSPECTOR MUST BE PRESENT DURING THE ENTIRE INSTALLATION OF THE CASING PIPE. THE INSPECTOR WILL HAVE COMPLETE AUTHORITY OVER THE PROJECT ON THE RAILROAD'S RIGHT-OF-WAY.

PAYMENT FOR ALL THE ABOVE SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 603, 36" CONDUIT, TYPE A.

36" CONDUIT, TYPE A - CARRIER PIPELINE SPECIFICATIONS

THE CARRIER PIPE SHALL BE PVC LARGE DIAMETER GRAVITY SEWER PIPE PER ASTM F-679.

ALL BLOCKING, GROUTING AND INSTALLATION SHALL FOLLOW THE BORING DETAILS SHOWN ON SHEET #7.

PAYMENT FOR ALL THE ABOVE SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 603, 36" CONDUIT, TYPE A.

RIGHT OF ENTRY REQUIREMENTS

METHODS AND PROCEDURES FOR PERFORMING WORK ON PROPERTY OF THE INDIANA & OHIO RAIL SYSTEM MUST BE APPROVED BY RAIL AMERICA THROUGH AN APPLICATION FOR CONTRACTOR OCCUPANCY ON RAILROAD PROPERTY. THIS APPLICATION IS INCLUDED IN THE PROPOSAL AND WILL HAVE TO BE COMPLETED BY THE CONTRACTOR. THE COMPLETED APPLICATION MUST BE SUBMITTED TO THE FULTON COUNTY ENGINEER'S OFFICE. THE COUNTY WILL SUBMIT THE APPLICATION TO RAIL AMERICA ALONG WITH OTHER REQUIRED DOCUMENTS AND ASSOCIATED FEES. FULTON COUNTY WILL BE RESPONSIBLE FOR PAYING THE PERMIT FEES.

THE STANDARD APPLICATION PROCESSING TIME IS APPROXIMATELY 4-8 WEEKS. A RIGHT OF ENTRY PERMIT NUMBER WILL BE ASSIGNED ONCE THE APPLICATION IS APPROVED. ALL COSTS ASSOCIATED WITH COMPLETING THE ABOVE APPLICATION SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM SPECIAL, RAILROAD FEES.

FLAGGING AND INSPECTION REQUIREMENTS

AFTER A RIGHT OF ENTRY PERMIT NUMBER IS ASSIGNED, FLAGGING PROTECTION AND AN INSPECTOR MUST BE SETUP. THE INDIANA AND OHIO FLAGGING AGREEMENT IS INCLUDED IN THE PROPOSAL AND MUST BE COMPLETED AND SUBMITTED BY THE CONTRACTOR. WHEN COMPLETING THE AGREEMENT, MAKE NOTE THAT INSPECTION IS ALSO REQUIRED. INDIANA AND OHIO RAILROAD PERSONNEL HAS INDICATED THAT ONE FLAGGER WILL BE REQUIRED. THE ONSITE FLAGGER WILL ALSO SERVE AS THE INSPECTOR. A RAILROAD FLAGGER MUST BE PRESENT DURING ANY WORK ON THE RAILROAD RIGHT-OF-WAY. ALL COSTS ASSOCIATED WITH COMPLETING THE ABOVE APPLICATION AND ALL FLAGGING AND INSPECTINON FEES SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM SPECIAL, RAILROAD FEES.

PIPE SUPPLIER REQUIREMENTS

THE PIPE SUPPLIER WILL HAVE TO PERFORM AND SUBMIT CASING THICKNESS DETERMINATIONS BASED ON COOPER E-80 RAILWAY LOADING, USING APPLICABLE FORMULAS AND CALCULATIONS. THE PIPE SUPPLIER WILL ALSO HAVE TO SUBMIT STAMPED PLANS AND CALCULATIONS STATING THAT THE PIPE COVER WILL SUSTAIN RAILROAD LOADS ACCORDING TO AREMA CRITERIA. THE SIGNED AND SEALED CALCULATIONS MUST BE PERFORMED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF OHIO. THIS INFORMATION SHOULD BE SUBMITTED TO THE FULTON COUNTY ENGINEER'S OFFICE AT THE SAME TIME AS THE APPLICATION FOR CONTRACTOR OCCUPANCY ON RAILROAD PROPERTY. PAYMENT FOR THE ABOVE WILL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM SPECIAL, RAILROAD FEES.

GENERAL RAILROAD NOTES

FAILURE TO NOTIFY THE RAILROAD COMPANY SHALL BE CAUSE FOR STOPPING WORK UNTIL ALL PROVISIONS FOR PROTECTING RAILROAD PROPERTY HAVE BEEN PROVIDED.

AT NO TIME WILL CONSTRUCTION INTERFERE WITH THE NORMAL AND SAFE OPERATION OF THE RAILROAD. NO CONSTRUCTION, MANPOWER, OR EQUIPMENT WILL ENTER OR OPERATE ON THE RIGHT-OF-WAY WITHIN A SAFETY CLEARANCE OF 25.0 FEET FROM THE CENTERLINE OF NEAR TRACK.

42" CONDUIT, TYPE A - ALTERNATE BID ITEM

A 42" CLASS V, STRAIGHT WALL, REINFORCED CONCRETE PIPE SHALL BE BORED AND JACKED WHERE THE 36" CONDUIT, TYPE A IS SPECIFIED. THIS SHALL BE PAID FOR IN THE UNIT PRICE BID FOR ITEM 603, 42" CONDUIT, TYPE A - ALTERNATE BID ITEM. THIS ITEM SHALL NOT BE INCLUDED IN THE BID TOTAL.

GENERAL SUMMARY

SHEET NO.	ITEM	GRAND TOTAL	UNIT	DESCRIPTION	ORIGIN
				EARTHWORK	
	201	1	LUMP	CLEARING AND GRUBBING	
8,9	202	12	EA.	REMOVE EXISTING HEADWALL	TABLE D & A
8	202	4	EA.	REMOVE EXISTING CATCH BASIN	TABLE D
8,9	202	2,362	FT.	PIPE REMOVED 24-INCH & UNDER	TABLE D & A
8,9	202	264	FT.	PIPE REMOVED, OVER 24-INCH	TABLE D & A
9	202	46	S.Y.	DRIVEWAY PAVEMENT AND BASE REMOVED	TABLE A
9	202	46	S.Y.	CONCRETE REMOVED	TABLE A
8	202	329	S.Y.	PAVEMENT REMOVED FOR BUTT JOINTS	TABLE P
9	203	395	C.Y.	EXCAVATION FOR DRIVEWAY MATERIAL	TABLE A
8	203	5,793	C.Y.	EXCAVATION FOR PAVEMENT WIDENING	TABLE P
9	203	14,796	C.Y.	EXCAVATION	TABLE E
9	203	19,593	C.Y.	EMBANKMENT	TABLE E
9	204	2,182	S.Y.	SUBGRADE COMPACTION, DRIVES	TABLE A
8	204	20,890	S.Y.	SUBGRADE COMPACTION, WIDENING	TABLE P
				EROSION CONTROL	
11-45	207	73	EA.	STRAW BALES FOR EROSION CONTROL, AS PER DETAILS	PLAN
8	207	44	EA.	INLET PROTECTION, AS PER DETAIL	TABLE D
8	207	80	TON	NO. 1'S AND 2'S	TABLE D
8,9	207	398	TON	ROCK CHANNEL PROTECTION, TYPE D, WITHOUT FILTER	TABLE D & A
				DRAINAGE	
8	603	80	FT.	36" CONDUIT, TYPE A	TABLE D
8	603	508	FT.	12" CONDUIT, TYPE B	TABLE D
8	603	291	FT.	4" CONDUIT, TYPE C	TABLE D
8	603	57	FT.	6" CONDUIT, TYPE C	TABLE D
8	603	55	FT.	8" CONDUIT, TYPE C	TABLE D
8	603	1,818	FT.	10" CONDUIT, TYPE C	TABLE D
8	603	2,555	FT.	12" CONDUIT, TYPE C	TABLE D
8	603	7	FT.	15" CONDUIT, TYPE C	TABLE D
8	603	1,688	FT.	30" CONDUIT, TYPE C	TABLE D
8	603	340	FT.	36" CONDUIT, TYPE C	TABLE D
9	603	140	FT.	10" CONDUIT, TYPE D	TABLE A
9	603	80	FT.	12" CONDUIT, TYPE D	TABLE A
9	603	40	FT.	30" CONDUIT, TYPE D	TABLE A
9	603	50	FT.	36" CONDUIT, TYPE D	TABLE A
8	603	20	FT.	1 1/2" CONDUIT, TYPE E	TABLE D
8	603	93	FT.	4" CONDUIT, TYPE E	TABLE D
8	603	78	FT.	6" CONDUIT, TYPE E	TABLE D
8	603	30	FT.	8" CONDUIT, TYPE E	TABLE D
8	603	5	EA.	4" CONNECTION TO ENCLOSURE PIPE	TABLE D
8	603	5	EA.	6" CONNECTION TO ENCLOSURE PIPE	TABLE D
8	603	4	EA.	8" CONNECTION TO ENCLOSURE PIPE	TABLE D
8	603	7	EA.	10" CONNECTION TO ENCLOSURE PIPE	TABLE D
8	603	1	EA.	12" CONNECTION TO ENCLOSURE PIPE	TABLE D
8	604	24	EA.	NO. 2-2B CATCH BASIN	TABLE D
8	604	1	EA.	NO. 2-3 CATCH BASIN	TABLE D
8	604	4	EA.	15" INLINE DRAIN, AS PER DETAIL	TABLE D
8	613	10	C.Y.	LOW STRENGTH MORTAR BACKFILL	TABLE D
				PAVEMENT	
8	253	181	C.Y.	PAVEMENT REPAIR	TABLE P
8	301	2,357	C.Y.	ASPHALT CONCRETE BASE FOR WIDENING	TABLE P
8	304	3,471	C.Y.	AGGREGATE BASE FOR WIDENING	TABLE P
8	301	12	C.Y.	ASPHALT CONCRETE BASE FOR PIPE TRENCH	TABLE D
8	304	19	C.Y.	AGGREGATE BASE FOR PIPE TRENCH	TABLE D
8,9	407	8,441	GAL.	TACK COAT	TABLE P & A
8	408	8,358	GAL.	PRIME COAT	TABLE P
9	411	91	C.Y.	AGGREGATE BASE, OVERLAY EXISTING DRIVE	TABLE A
8,9	411	393	C.Y.	AGGREGATE BASE FOR DRIVES	TABLE P & A
8,9	448	3,719	C.Y.	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, PG 64-22	TABLE P & A
8,9	448	2,187	C.Y.	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, PG 64-22	TABLE P & A
9	448	5	C.Y.	ASPHALT CONCRETE SURFACE COURSE, FOR DRIVEWAYS	TABLE A
9	452	54	S.Y.	NON-REINFORCED PORTLAND CEMENT CONCRETE PAVEMENT	TABLE A
8	617	859	C.Y.	RECONDITIONING OF SHOULDERS	TABLE P
				MISCELLANEOUS	
	103	1	LUMP	PREMIUM FOR CONTRACT PERFORMANCE BOND AND MAINTENANCE GUARANTEE BOND	
	SPECIAL	1	LUMP	PREMIUM FOR RAILROAD PROTECTIVE LIABILITY INSURANCE	
	SPECIAL	1	LUMP	RAILROAD FEES	
	614	1	LUMP	MAINTAINING TRAFFIC	
	623	1	LUMP	CONSTRUCTION LAYOUT STAKES	
8	606	100	FT.	TYPE 5 GUARDRAIL	TABLE G
8	606	87.5	FT.	RAILING (DEEP BEAM RAIL WITH TUBULAR BACKUP, TYPE 2 POST & ANCHOR BOLTS)	TABLE G
8	606	25	FT.	TYPE 5 GUARDRAIL, 10' RADIUS	TABLE G
8	606	3	EA.	ANCHOR ASSEMBLY, TYPE A	TABLE G
8	606	1	EA.	FLARED END SECTION	TABLE G
	642	2	EA.	RAILROAD SYMBOL MARKING, TYPE 1	
	642	4.25	MILE	CENTER LINE, TYPE 1	
	642	8.50	MILE	EDGE LINE, TYPE 1	
				ALTERNATE BID ITEM	
	603	80	FT.	42" CONDUIT, TYPE A	

FOR ROAD 4-3 AND CULVERT 4-3S.9 GENERAL SUMMARY, SEE SHEET #88.
FOR BRIDGE T64.9 ESTIMATED QUANTITIES, SEE SHEET #91

Drawn By: HKD/BDL | Checked By: FTO
Date: 2/13/2012 | Revised: N/A N/A

FULTON COUNTY ROAD T (CO. RD. 7 TO S.R. 64)
RAILROAD GENERAL NOTES AND GENERAL SUMMARY

FULTON COUNTY ENGINEERING DEPT.
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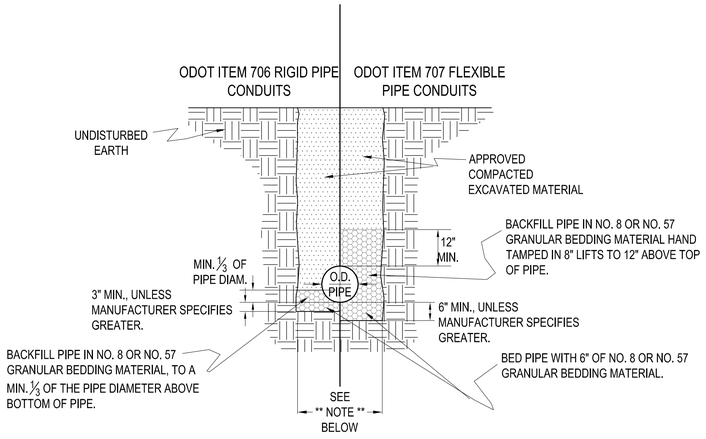


** NOTE ** MINIMUM TRENCH WIDTH SHALL BE THE GREATER OF EITHER THE PIPE OUTSIDE DIAMETER PLUS 16", OR THE PIPE OUTSIDE DIAMETER TIMES 1.25, PLUS 12".

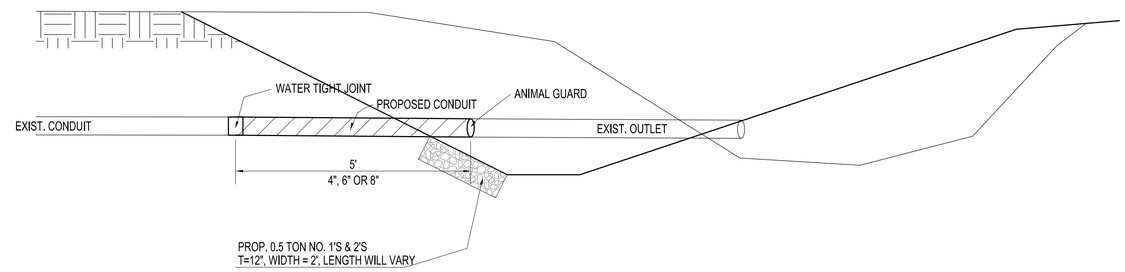
NOTE: ALL BEDDING AND BACKFILL MATERIALS SHALL BE COMPACTED TO MEET THE REQUIREMENTS AS SPECIFIED BY O.D.O.T. ITEM 603.

NOTE: UNDER EXISTING SEWERS, WATER LINES, GAS LINES, TELEPHONE CABLE AND ELECTRICAL CONDUITS, BACKFILL WITH NO. 8 GRANULAR BEDDING MATERIAL TO 6" ABOVE THE EXISTING UTILITY LINES.

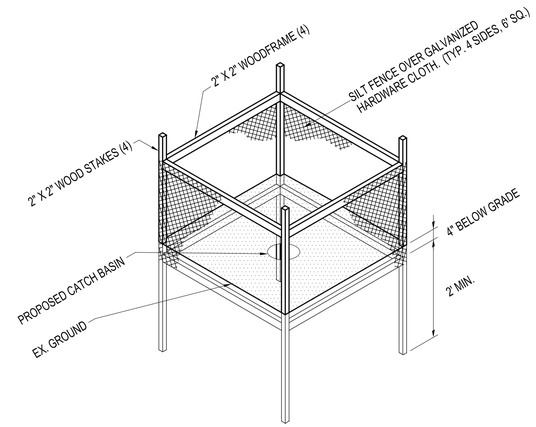
NOTE: WHERE TYPE C CONDUIT CROSSES THROUGH A DRIVE; GRANULAR MATERIAL SHALL BE USED AS BACKFILL TO THE BASE OF DRIVE. THE COST OF THE GRANULAR MATERIAL BACKFILL SHALL BE INCLUDED IN THE UNIT PRICE BID ITEM FOR THE RESPECTIVE TYPE C CONDUIT.

TYPE C CONDUIT ~ TRENCH DETAIL

(OUTSIDE 5 FT. OF EDGE OF PAVEMENT)



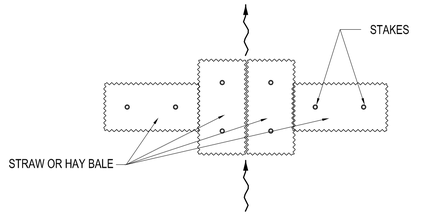
PROPOSED TYPICAL DRAINAGE OUTLET INTO PROPOSED DITCH



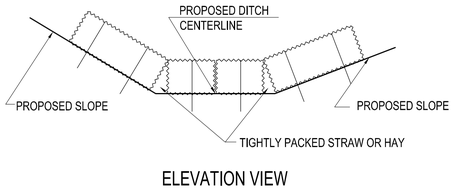
TYPICAL SILT FENCE

SEDIMENT BARRIER

ALL DRAWINGS
NOT TO SCALE



PLAN VIEW



ELEVATION VIEW

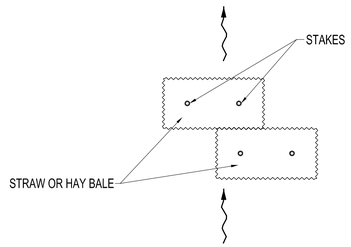
BALE PLACEMENT: BALES SHALL BE TIGHTLY AND ADJACENTLY PLACED; EACH BALE SHALL BE STAKED IF NECESSARY. STAKES SHALL BE AT LEAST 3' IN LENGTH AND WOODEN 2"x3/4" LATHE, REINFORCING BARS, OR FENCE POSTS, AS APPROVED BY THE ENGINEER.

LOOSE STRAW OR HAY SHALL BE SCATTERED FOR A DISTANCE OF 10' ON THE UPSTREAM END OF EACH DITCH CHECK, AND SHALL BE WEDGED BETWEEN AND UNDER BALES.

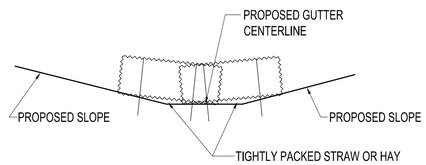
THE ENGINEER MAY DIRECT THE PLACEMENT OF ADDITIONAL BALES AS DEEMED NECESSARY FOR TEMPORARY EROSION CONTROL.

BASIS OF PAYMENT: STRAW BALE INSTALLATION SHALL BE PAID FOR UNDER THE RESPECTIVE ITEM. COST WILL INCLUDE PLACING, STAKING, MAINTAINING AND REMOVING.

BALE DITCH CHECK (4 BALES EACH)

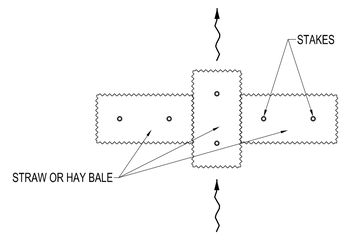


PLAN VIEW

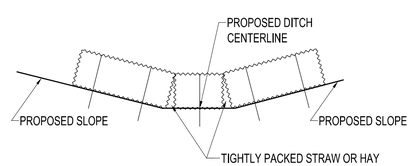


ELEVATION VIEW

BALE GUTTER CHECK (2 BALES EACH)



PLAN VIEW



ELEVATION VIEW

BALE DITCH CHECK (3 BALES EACH)

Drawn By: HKD/BDL | Checked By: FTO
Date: 2/13/2012 | Revised: N/A | N/A

FULTON COUNTY ROAD T (CO. RD. 7 TO S.R. 64)
STANDARD DETAILS

FULTON COUNTY ENGINEERING DEPT.
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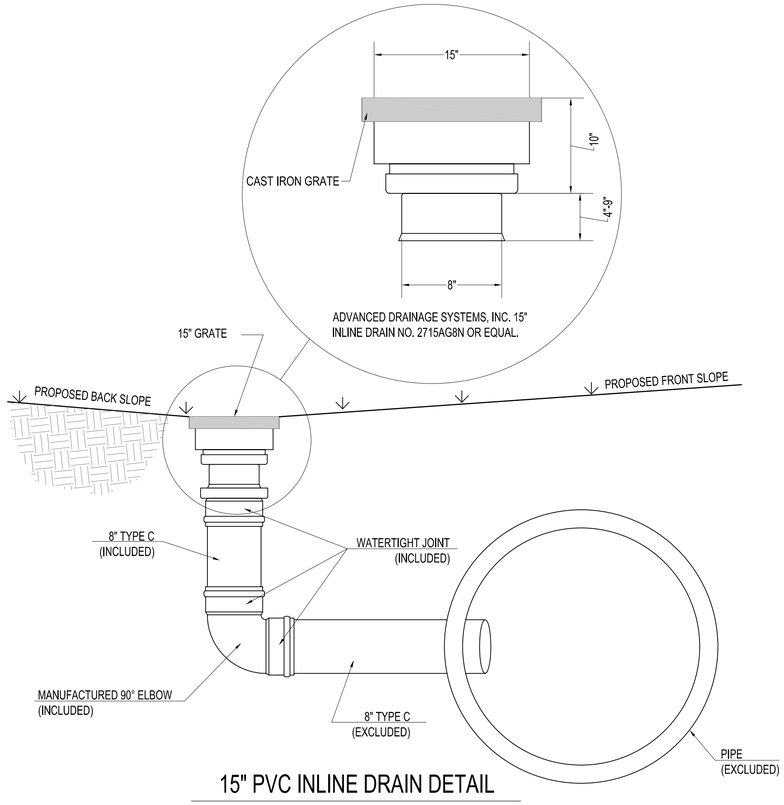
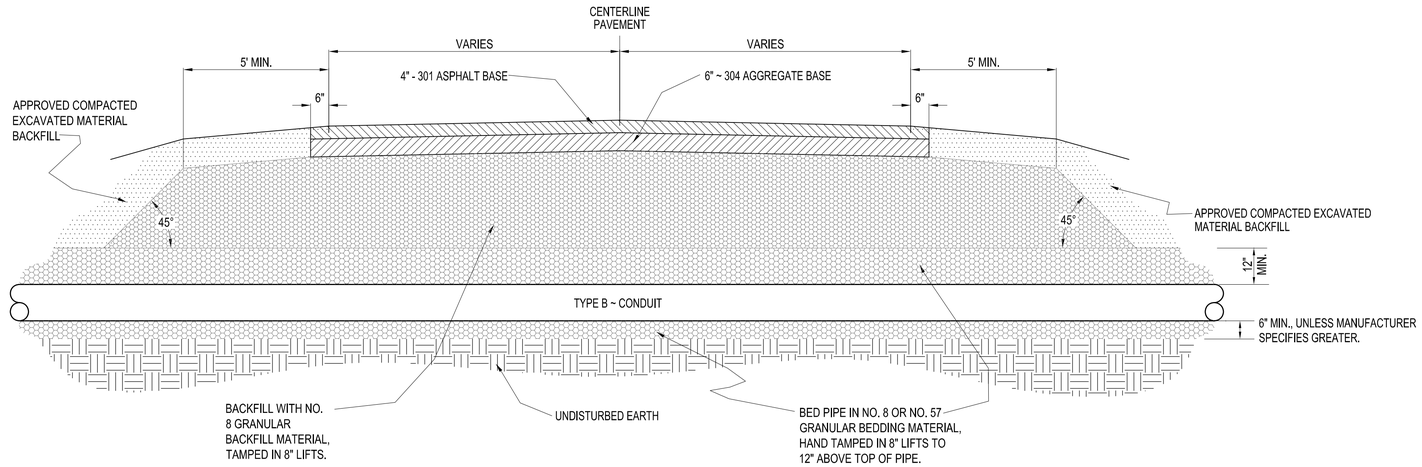


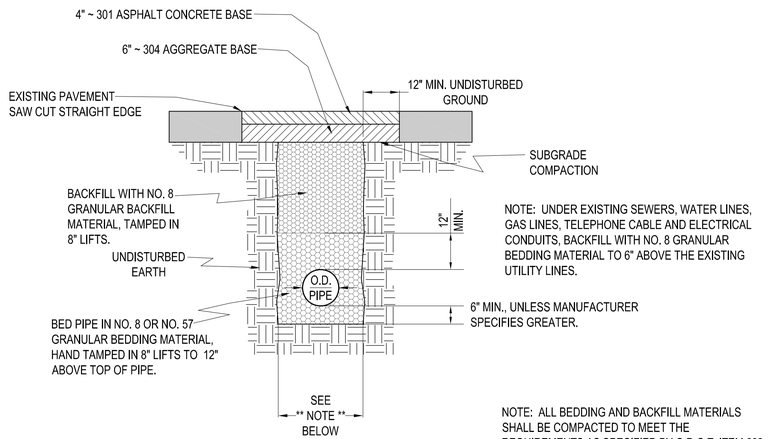
15" PVC INLINE DRAIN DETAIL



NOTE: UNDER EXISTING SEWERS, WATER LINES, GAS LINES, TELEPHONE CABLE AND ELECTRICAL CONDUITS, BACKFILL WITH NO. 8 GRANULAR BEDDING MATERIAL TO 6" ABOVE THE EXISTING UTILITY LINES.

NOTE: ALL BEDDING AND BACKFILL MATERIALS SHALL BE COMPACTED TO MEET THE REQUIREMENTS AS SPECIFIED BY O.D.O.T. ITEM 603.

CROSS-SECTION DETAIL ~ OPEN CUT



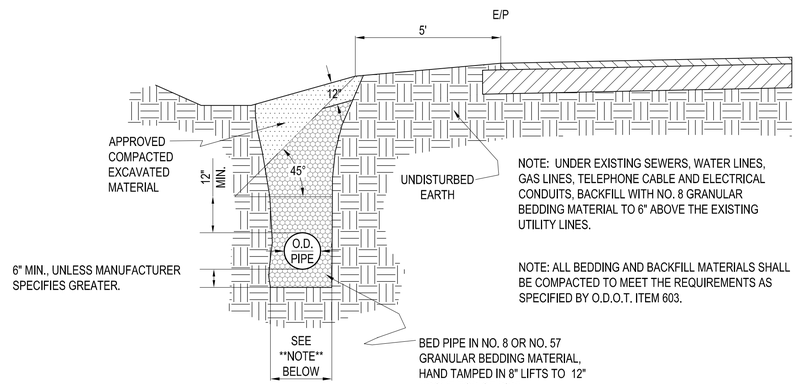
NOTE: UNDER EXISTING SEWERS, WATER LINES, GAS LINES, TELEPHONE CABLE AND ELECTRICAL CONDUITS, BACKFILL WITH NO. 8 GRANULAR BEDDING MATERIAL TO 6" ABOVE THE EXISTING UTILITY LINES.

NOTE: ALL BEDDING AND BACKFILL MATERIALS SHALL BE COMPACTED TO MEET THE REQUIREMENTS AS SPECIFIED BY O.D.O.T. ITEM 603.

** NOTE ** MINIMUM TRENCH WIDTH SHALL BE THE GREATER OF EITHER THE PIPE OUTSIDE DIAMETER PLUS 16", OR THE PIPE OUTSIDE DIAMETER TIMES 1.25, PLUS 12".

TYPE B CONDUIT ~ TRENCH DETAIL

(UNDER AND/OR WITHIN 5 FT. OF EDGE OF PAVEMENT)



NOTE: UNDER EXISTING SEWERS, WATER LINES, GAS LINES, TELEPHONE CABLE AND ELECTRICAL CONDUITS, BACKFILL WITH NO. 8 GRANULAR BEDDING MATERIAL TO 6" ABOVE THE EXISTING UTILITY LINES.

NOTE: ALL BEDDING AND BACKFILL MATERIALS SHALL BE COMPACTED TO MEET THE REQUIREMENTS AS SPECIFIED BY O.D.O.T. ITEM 603.

NOTE MINIMUM TRENCH WIDTH SHALL BE THE GREATER OF EITHER THE PIPE OUTSIDE DIAMETER PLUS 16", OR THE PIPE OUTSIDE DIAMETER TIMES 1.25, PLUS 12".

CONDUIT ALONG EDGE OF PAVEMENT

ALL DRAWINGS
NOT TO SCALE

Drawn By: HKD/BDL | Checked By: FTO
Date: 2/13/2012 | Revised: N/A N/A

FULTON COUNTY ROAD T (CO. RD. 7 TO S.R. 64)
STANDARD DETAILS

FULTON COUNTY ENGINEERING DEPT.
FRANK T. OMWEILER, P.E., P.S. - COUNTY ENGINEER
ROD CREAGER, P.E., P.S. - CHIEF DEPUTY ENGINEER
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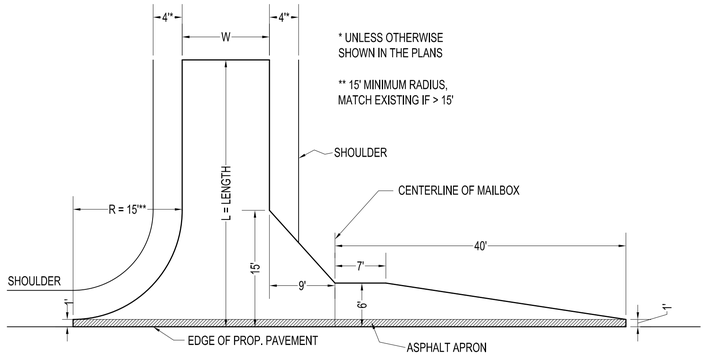
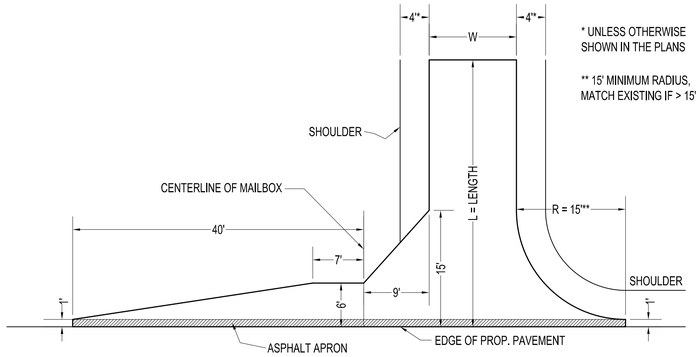


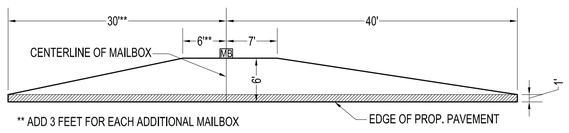
RESIDENTIAL DRIVE W/ MAILBOX APPROACH

A-6, A-34, A-49, A-68, A-77



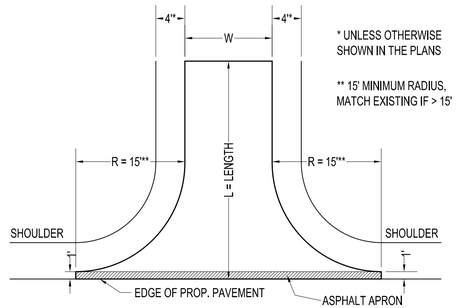
RESIDENTIAL DRIVE W/ MAILBOX APPROACH

A-4, A-5, A-11, A-15, A-21, A-26, A-61, A-62, A-70, A-71, A-78



MAILBOX APPROACH

A-2, A-17, A-23, A-28, A-30, A-37, A-39, A-43, A-48, A-52, A-64, A-72

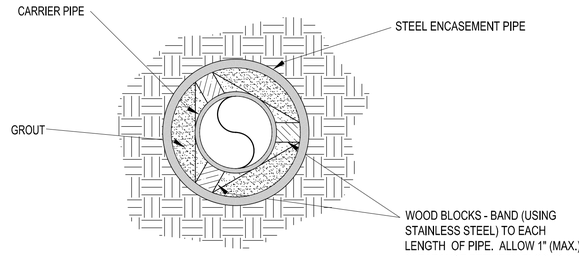


DRIVEWAY W/ RADIUS

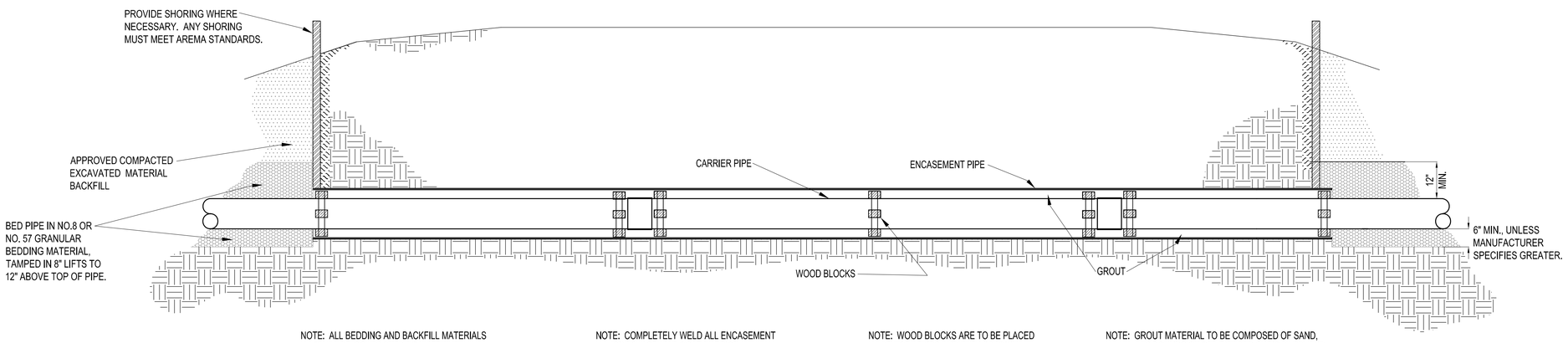
A-4, A-5, A-7, A-8, A-9, A-13, A-14, A-16, A-18, A-19, A-20, A-22, A-25, A-27, A-29, A-31, A-32, A-33, A-35, A-36, A-40, A-41, A-42, A-44, A-45, A-46, A-47, A-50, A-51, A-53, A-54, A-55, A-56, A-57, A-58, A-59, A-60, A-63, A-65, A-66, A-67, A-69, A-73, A-74, A-75, A-76, A-79, A-80, A-81

THE ASPHALT FOR DRIVES A-1, A-3, A-38 IS TO BE REMOVED AND REPLACED AS SHOWN ON THE PLANS

THE CONCRETE FOR DRIVES A-10 AND A-12 IS TO BE REMOVED AND REPLACED AS SHOWN ON TH PLANS



TYPICAL BORING END-SECTION



NOTE: ALL BEDDING AND BACKFILL MATERIALS SHALL BE COMPACTED TO MEET THE REQUIREMENTS AS SPECIFIED BY O.D.O.T. ITEM 603.

NOTE: COMPLETELY WELD ALL ENCASEMENT JOINTS, ASPHALT COAT EXERIOR ENCASEMENT PIPE, AND GROUT SOLID FROM BOTH ENDS.

NOTE: WOOD BLOCKS ARE TO BE PLACED AT BOTH ENDS AND THE MIDPOINT OF EACH CARRIER PIPE SECTION, AND AT BOTH ENDS OF THE ENCASEMENT PIPE.

NOTE: GROUT MATERIAL TO BE COMPOSED OF SAND, 50 POUNDS OF CEMENT PER CUBIC YARD, AND 30% AIR BY VOLUME. ANY OTHER FORM OF GROUT MUST BE APPROVED BY THE ENGINEER.

CROSS-SECTION DETAIL ~ 36" CONDUIT, TYPE A UNDER RAILROAD

ALL DRAWINGS
NOT TO SCALE

Drawn By: HKD/BDL | Checked By: FTO
Date: 2/13/2012 | Revised: N/A N/A

FULTON COUNTY ROAD T (CO. RD. 7 TO S.R. 64)
STANDARD DETAILS

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DRAINAGE TABLE "D"

REFERENCE NUMBER	SHEET NUMBER	STATION FROM	STATION TO	SIDE	202 REMOVE EXIST. HEADWALL	202 REMOVE EXIST. CATCH BASIN	202 REMOVE PIPE 24" & UNDER	202 REMOVE PIPE OVER 24"	613 LOW STRENGTH MORTAR BACKFILL	207 INLET PROTECTION	601 NO. 1'S & 2'S	601 TYPE D ROCK CHANNEL PROTECTION WITHOUT FILTER	603 TYPE A 36"	603 TYPE B 12"	304 AGGREGATE BASE FOR PIPE TRENCH (6")	301 ASPHALT CONCRETE BASE FOR PIPE TRENCH (4")	603 TYPE C 4"	603 TYPE C 6"	603 TYPE C 8"	603 TYPE C 10"	603 TYPE C 12"	603 TYPE C 15"	603 TYPE C 30"	603 TYPE C 36"	603 TYPE E 1 1/2"	603 TYPE E 4"	603 TYPE E 6"	603 TYPE E 8"	603 4" CONNECTION TO ENCLOSURE PIPE	603 6" CONNECTION TO ENCLOSURE PIPE	603 8" CONNECTION TO ENCLOSURE PIPE	603 10" CONNECTION TO ENCLOSURE PIPE	603 12" CONNECTION TO ENCLOSURE PIPE	604 NO. 2-2B CATCH BASIN	604 NO. 2-3 CATCH BASIN	604 15" INLINE DRAIN	FOR INFORMATION ONLY (PRICE TO BE INCLUDED IN COST OF ASSOCIATED PIPE) 11.25° BEND - 4"	11.25° BEND - 10"	11.25° BEND - 12"	22.5° BEND - 30"	22.5° BEND - 36"	ANIMAL GUARD - 4"	ANIMAL GUARD - 6"	ANIMAL GUARD - 8"	ANIMAL GUARD - 10"	ANIMAL GUARD - 12"
					EA.	EA.	FT.	FT.	C.Y.	EA.	TON	TON	FT.	FT.	C.Y.	C.Y.	FT.	FT.	FT.	FT.	FT.	FT.	FT.	FT.	FT.	FT.	FT.	FT.	EA.	EA.	EA.	EA.	EA.	EA.	EA.	EA.	EA.	EA.	EA.	EA.	EA.	EA.	EA.	EA.	EA.	EA.	EA.
D-1	11	100+60	101+02	RT.						1		16						7					45											1					1				1		
D-2	11	104+59	104+61	BOTH			41				3			60	1.9	1.2																												1
D-3	12-13	109+47	111+89	RT.		1	22			1	10	16					9			8			195				1			2		1		1			2			2		1	
D-4	13	112+41	114+57	RT.				22		2									10	7	2		216			4			1	1	1		1		1					1	1	1	
D-5	13-14	114+87	115+43	RT.						1									7				57						1	1	1				1							1	
D-6	14-15	115+86	120+92	RT.	2		180	41		3		16							14	17			510			19	2		3	1	1	2		2		1			2		4	1	1	2	
D-7	15	121+25		RT.							3										18																							1
D-8	16	125+12		RT.							23									18																							1	
D-9	16-17	128+46	131+34	RT.			109			1		32							3	5			295									1		1			4					1	
D-10	17	131+40		BOTH						1				60	1.9	1.2																		1									1
D-11	18	137+39		RT.							3										16																							1
D-12	19	140+24	143+86	RT.	4			46		1		32							3	6			370											1		1			4				1	
D-13	20	145+56	147+54	RT.							3										17																							1
D-14	20	147+53		BOTH						1	3			58											20									1									
D-15	21	150+24	150+24	BOTH						1				60	1.9	1.2					59														1									1
D-16	21	150+24	151+12	RT.					10			44	80																														
D-17	21-22	153+36	158+70	RT.	4		58			2		34							12	7				340							1	1	1	1		1			4			1	1	
D-18	24	165+28	165+36	BOTH				56				140		65	5.2	3.5																												1
D-19	25-26	171+98	177+51	LT.							3									560																				1			1	
D-20	27-28	183+31	185+92	RT.			24										262		6		68	7												1					1		2		1	
D-21	31-32	203+11	209+10	BOTH						3				52	1.9	1.2				600														3						2				
D-22	32-34	209+10	218+12	RT.		1	660			1								45			905													1						3			1	
D-23	34	218+20	218+40	LT.			40				3						20			30																						1		1	
D-24	34-35	218+60	224+30	LT.		1				1	3									560														1						1			1	
D-25	34-36	218+30	227+40	RT.						2	3										120													2										1
D-26	37	231+40	231+62	BOTH		1				2				51	1.9	1.2					40													2										
D-27	41-42	250+55	255+55	BOTH			45			2				50	1.9	1.2		5			500													2										
D-28	42-43	255+55	263+64	BOTH			76			2	3			52	1.9	1.2					810													2						2				1
D-29	11-16	101+18	128+30	RT.			740				17															70	75	30													14	15	6		
D-30		EXISTING BASINS								16																																			
TOTALS TO GENERAL SUMMARY					10	4	1995	165	10	44	80	330	80	508	19	12	291	57	55	1818	2555	7	1688	340	20	93	78	30	5	5	4	7	1	24	1	4	1	4	5	13	4	21	20	12	11	11

GUARDRAIL TABLE "G"

REFERENCE NUMBER	SHEET NO.	STATION FROM	STATION TO	OUT TO FACE	SIDE	606 TYPE 5 GUARDRAIL	606 RAILING (DEEP BEAM RAIL WITH TUBULAR BACKUP, TYPE 2 POST & ANCHOR BOLTS)	606 TYPE 5 GUARDRAIL, 10' RADIUS	606 ANCHOR ASSEMBLY, TYPE A	606 FLARED END SECTION
						FT.	FT.	FT.	EACH	EACH
G-1	34	217+53.8	218+05	14.0	LT.	31.25			1	
G-2	34	218+05	218+49.25	14.0	LT.		43.75			
G-3	34	218+49.25	218+71	14.0	LT.	12.50		25.0		1
G-4	34	217+71.9	218+23	14.0	RT.	25.00			1	
G-5	34	218+23	218+67.25	14.0	RT.		43.75			
G-6	34	218+67.25	219+18.4	14.0	RT.	31.25			1	
TOTALS TO GENERAL SUMMARY						100	87.5	25	3	1

BENCHMARK TABLE

BM NO.	SHT. NO.	STATION	OFFSET	ELEVATION	DESCRIPTION
18	11	100+30.6	26.5' RT.	741.19	DH NAIL W/TAG IN E. FACE PP
17	11	103+52.9	25.3' LT.	741.94	DH NAIL W/TAG IN S. FACE PP
16	13	112+58.8	25.8' LT.	738.67	DH NAIL W/TAG IN S. FACE PP
15	15	120+24	250' LT.	736.48	DH NAIL W/TAG IN S. FACE PP
6	16	128+55.3	25.8' LT.	734.91	DH NAIL W/TAG IN S. FACE PP
5	19	142+25.3	23.7' LT.	733.96	DH NAIL W/TAG IN S. FACE PP
4	21	150+64	26.4' LT.	733.89	DH NAIL W/TAG IN S. FACE PP
3	22	155+66.6	28.7' LT.	732.47	DH NAIL W/TAG IN N. FACE PP
2	24	165+44.7	27.3' LT.	731.49	FOUND RR SPIKE IN S. SIDE PP (SHAFT)
7	25	171+85.4	28.8' LT.	729.69	DH NAIL W/TAG IN S. FACE PP
8	26	177+34.5	29.0' LT.	728.41	DH NAIL W/TAG IN S. FACE PP
9	28	185+57	27.0' RT.	729.13	DH NAIL W/TAG IN N. FACE PP
10	29	192+06.4	29.1' RT.	729.80	DH NAIL W/TAG IN N. FACE PP
11	30	198+08.2	26.6' RT.	729.16	DH NAIL W/TAG IN N. FACE PP
12	32	206+06.4	22.1' RT.	727.90	DH NAIL W/TAG IN N. FACE PP
13	33	212+79.4	22.5' RT.	728.24	DH NAIL W/TAG IN NE FACE PP #4015 0
14	34	219+24.1	24.5' RT.	724.86	DH NAIL W/FULTON CO. TAG IN N. FACE PP
20	36	229+35.7	24.4' RT.	728.45	DH NAIL W/TAG IN N. FACE PP #157838 D74418
21	38	237+16.5	26.2' RT.	727.82	DH NAIL W/TAG IN N. FACE PP
22	39	244+61.3	24.2' RT.	727.19	DH NAIL W/TAG IN N. FACE PP
23	41	251+86.4	22.4' RT.	725.76	DH NAIL W/TAG IN N. FACE PP
24	42	257+94	27.3' LT.	725.51	DH NAIL W/TAG IN N. FACE PP
25	43	263+67.8	30.0' LT.	722.39	SET CHISELED "X" ON N. END 72" RCP
26	45	270+93.1	73.6' RT.	727.60	SET CHISELED "X" ON S. BONNET BOLT OF FH

PAVEMENT TABLE "P"

LINE NO.	SHEET NO.	STATION FROM	STATION TO	LENGTH	EXISTING PAVEMENT WIDTH	PROPOSED PAVEMENT WIDTH	202 PAVEMENT REMOVAL FOR BUTT JOINTS	203 EXCAVATION FOR PAVEMENT WIDENING (10")	204 SUBGRADE COMPACTION	253 PAVEMENT REPAIR WIDTH=4', DEPTH=4"	301 ASPHALT CONCRETE BASE FOR WIDENING (4")	304 AGGREGATE BASE FOR WIDENING (6")	407 TACK COAT (0.08 GAL./S.Y.)	408 PRIME COAT (0.4 GAL./S.Y.)	448 ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, PG 64-22, (2.5")	448 ASPHALT CONCRETE SURFACE COURSE, TYPE 1, PG 64-22, (1.5")	617 RECONDITIONING OF SHOULDERS (4")
				L.F.	FEET	FEET	S.Y.	C.Y.	S.Y.	C.Y.	C.Y.	C.Y.	GALLON	GALLON	C.Y.	C.Y.	C.Y.
P-1*		39+87	40+57	85	VARIES	VARIES	72.0	21.0	75.6		12.6	8.4	38.7	30.2	14.3	11.6	3.1
P-2*		40+57	99+51	5894	16	20		1455	5239	14.7	582.1	873.2	2121.8	2095.6	932.3	545.7	218.3
P-3	11	99+51	100+52	57	VARIES	VARIES		14.1	50.7		5.6	8.4	44.3	20.3	15.6	13.7	2.1
P-4	11-21	100+52	150+95	5043	16.0	20.0	34.2	1245.2	4482.7	14.7	498.1	747.1	1815.5	1793.1	797.7	466.9	186.8
P-5	21-34	151+03	218+15	6712	16.0	20.0	36.8	1657.3	5966.2	73.3	662.9	994.4	2416.3	2386.5	1061.7	621.5	248.6
		218+15	218+57	SEE BRIDGE DECK QUANTITY TABLE													
P-6	34-45	218+57	270+61	5204	16.0	20.0		1284.9	4625.8	78.2	514.0	771.0	1873.4	1850.3	823.2	481.9	192.7
P-7	24	165+36	166+09	75	VARIES	VARIES	18.0	15.6	56.1		6.2	9.4	22.7	24.4	9.2	6.3	2.8
P-8	29	191+98	192+82	82	VARIES	VARIES	117.3						9.4			4.9	1.5
P-9	45	270+61	270+99.2	87	VARIES	VARIES	50.3	21.5	77.3		12.9	8.6	38.7	30.9	14.3	11.6	3.2
TOTALS FROM EXTRA WIDENING TABLE								87.9	316.6		52.8	35.2		126.6			
TOTALS FROM DRAINAGE TABLE											10	15					
TOTALS TO GENERAL SUMMARY							329	5803	20890	181	2357	3471	8381	8358	3668	2164	859

*P-1 AND P-2 ARE QUANTITIES FOR ROAD T BETWEEN ROAD 6 AND ROAD 7

Drawn By: HKD/BDL | Checked By: FTO

Date: 2/13/2012 | Revised: N/A N/A

FULTON COUNTY ROAD T (CO. RD. 7 TO S.R. 64)

QUANTITY TABLES

FULTON COUNTY ENGINEERING DEPT.
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DRIVEWAY APPROACH TABLE "A"

REFERENCE NUMBER	SHEET NUMBER	STATION			SIDE	DIMENSIONS (PROPOSED)			PROPOSED AREA	EXISTING AREA	202	202	202	203	204	407	411	411	411	448	448	448	452	202	202	603	603	603	603	601
		CENTERLINE	EXISTING MATERIAL	TYPE		WIDTH		LENGTH			REMOVE EXIST. HEADWALL	DRIVEWAY PAVEMENT AND BASE REMOVED	CONCRETE REMOVED	EXCAVATION FOR DRIVEWAY MATERIAL	SUBGRADE COMPACTION	TACK COAT	AGGREGATE BASE (OVERLAY EXISTING DRIVE)	AGGREGATE BASE	AGGREGATE BASE	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, PG 64-22	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, PG 64-22	ASPHALT CONCRETE SURFACE COURSE, FOR DRIVEWAYS TYPE 1, PG 64-22*	NON-REINFORCED PORTLAND CEMENT CONCRETE PAVEMENT	PIPE REMOVED UNDER 24"	PIPE REMOVED OVER 24"	10" TYPE D	12" TYPE D	30" TYPE D	36" TYPE D	TYPE D ROCK CHANNEL PROTECTION, WITHOUT FILTER
						FRONT @ E/P	BACK @ R/W									0.08 GAL/S.Y.	VARIES	6"	8"	2.5"	1.5"	3"	6"							
		FT.							S.F.	S.F.	EA.	S.Y.	S.Y.	C.Y.	S.Y.	GAL.	C.Y.	C.Y.	C.Y.	C.Y.	C.Y.	C.Y.	S.Y.	FT.	FT.	FT.	FT.	FT.	FT.	TON
A-1	11	102+33	ASPHALT	RESIDENTIAL	LT.	50	25.3	8	279	205		22.8		3.8	22.7	0.6		3.8		0.5	0.2	2.6							
A-2	11	103+15	GRASS	MAILBOX APPROACH	RT.	70	13	6	175					4.3	19.4	0.8			4.3	0.7	0.3								
A-3	11	103+18	ASPHALT	RESIDENTIAL	LT.	40	10	19	127	120		13.3		1.2	7.4	0.4		1.2		0.4	0.2	1.2							
A-4	12	107+09	GRASS	FIELD	RT.	50	20	42	892					16.5	99.1	0.6		16.5		0.5	0.2					31		40		32
A-5	12	108+53	GRASS	FIELD	LT.	50	20	18	412					7.6	45.8	0.6		7.6		0.5	0.2								
A-6	13	112+25	STONE	RESIDENTIAL W/MAILBOX APPROACH	RT.	76	12	21	487	423				1.6	7.1	0.8	2.6		1.6	0.7	0.4								
A-7	13	112+91	GRASS	FIELD	RT.	50	20	21	492					9.1	54.7	0.6		9.1		0.5	0.2								
A-8	13	112+98	STONE	RESIDENTIAL	LT.	42	12	18	361	361						0.5	2.2			0.4	0.2								
A-9	13	114+45	GRASS	FIELD	LT.	50	20	18	412					7.6	45.8	0.6		7.6		0.5	0.2				30		40		
A-10	13	114+71	CONCRETE	RESIDENTIAL W/MAILBOX APPROACH	RT.	84	20	22	286	233			25.9	5.3	31.8	0.9		3.0		0.8	0.4			32					
A-11	14	115+64	STONE	RESIDENTIAL W/MAILBOX APPROACH	RT.	88	25	23	749	565				4.5	20.4	1.0	3.5		4.5	0.8	0.4								
A-12	14	118+37	CONCRETE	RESIDENTIAL	RT.	16	10	15	196	178			19.8	3.2	19.1	0.2		3.2		0.2	0.1			22					
A-13	14	118+91	STONE	RESIDENTIAL	RT.	40	10	22	293	260				0.8	3.7	0.4	1.6		0.8	0.4	0.2								
A-14	14	119+00	GRASS	FIELD	LT.	50	20	18	412					7.6	45.8	0.6		7.6		0.5	0.2								
A-15	14	119+78	STONE	RESIDENTIAL W/MAILBOX APPROACH	RT.	82	27	22	745	603				3.5	15.8	0.9	3.7		3.5	0.8	0.4								
A-16	15	122+04	STONE	FIELD	LT.	50	20	18	412	329				1.5	9.2	0.6	2.0	1.5		0.5	0.2								
A-17	16	125+42	GRASS	MAILBOX APPROACH	RT.	70	13	6	175					4.3	19.4	0.8			4.3	0.7	0.3								
A-18	16	125+74	STONE	RESIDENTIAL	LT.	50	19	18	416	385				0.8	3.4	0.6	2.4		0.8	0.5	0.2								
A-19	16	128+88	GRASS	FIELD	LT.	50	20	20	458					8.5	50.9	0.6		8.5		0.5	0.2								
A-20	16	128+92	GRASS	FIELD	RT.	70	40	20	822					15.2	91.3	0.8		15.2		0.7	0.3								
A-21	17	130+03	STONE	RESIDENTIAL W/MAILBOX APPROACH	RT.	75	11	20	439.5	322				2.9	13.1	0.8	2.0		2.9	0.7	0.3								
A-22	17	134+00	GRASS	FIELD	LT.	50	20	20	458					8.5	50.9	0.6		8.5		0.5	0.2								
A-23	18	139+39	GRASS	MAILBOX APPROACH	RT.	70	13	6	175					4.3	19.4	0.8			4.3	0.7	0.3								
A-24	18	139+54	STONE	RESIDENTIAL	LT.	72	35	20	875	823				1.3	5.8	0.8	5.1		1.3	0.7	0.3								
A-25	19	140+52	GRASS	FIELD	RT.	50	20	20	458					8.5	50.9	0.6		8.5		0.5	0.2								
A-26	19	141+83	STONE	RESIDENTIAL	RT.	74	11	20	399	206				4.8	21.4	0.8	1.3		4.8	0.7	0.3								
A-27	19	141+97	STONE	RESIDENTIAL	LT.	59	28	20	685	685						0.7	4.2			0.6	0.3								
A-28	20	146+65	GRASS	MAILBOX APPROACH	RT.	70	13	6	175					4.3	19.4	0.8			4.3	0.7	0.3								
A-29	20	146+90	STONE	RESIDENTIAL	LT.	43	13	20	328	266				1.5	6.9	0.5	1.6		1.5	0.4	0.2								
A-30	20	148+46	GRASS	MAILBOX APPROACH	RT.	70	13	6	175					4.3	19.4	0.8			4.3	0.7	0.3								
A-31	20	148+76	STONE	RESIDENTIAL	LT.	41	11	20	321	313						0.5	1.9			0.4	0.2								
A-32	20	149+48	STONE	FIELD	LT.	50	20	20	458	107				6.5	39.0	0.6	0.7	6.5		0.5	0.2				28				
A-33	21	152+01	GRASS	FIELD	RT.	52	22	45	1040					19.3	115.6	0.6		19.3		0.5	0.2					36		50	36
A-34	22	155+89	STONE	RESIDENTIAL W/MAILBOX APPROACH	RT.	75	11	20	404	241				4.0	18.1	0.8	1.5		4.0	0.7	0.3								
A-35	22	156+41	GRASS	FIELD	RT.	54	24	19	509					9.4	56.6	0.6		9.4		0.5	0.3								
A-36	22	158+37	STONE	RESIDENTIAL	LT.	45	15	21	396	333				1.6	7.0	0.5	2.1		1.6	0.4	0.2								
A-37	22	158+74	GRASS	MAILBOX APPROACH	RT.	70	13	6	175					4.3	19.4	0.8			4.3	0.7	0.3								
A-38	22	159+20	ASPHALT	RESIDENTIAL	LT.	35	39	4	109	90		10.0		2.0	6.3	0.4		2.0		0.3	0.2	1.0							
A-39	23	162+44	GRASS	MAILBOX APPROACH	RT.	70	13	6	175					4.3	19.4	0.8			4.3	0.7	0.3								
A-40	23	162+73	STONE	RESIDENTIAL	LT.	42	12	21	333	273				1.5	6.7	0.5	1.7		1.5	0.4	0.2								
A-41	23	163+40	GRASS	FIELD	LT.	50	20	21	478					8.9	53.1	0.6		8.9		0.5	0.2								
A-42	24	168+00	GRASS	FIELD	LT.	50	20	21	478					8.9	53.1	0.6		8.9		0.5	0.2								
A-43	25	173+19	GRASS	MAILBOX APPROACH	RT.	70	13	6	175					4.3	19.4	0.8			4.3	0.7	0.3								
A-44	25	173+55	STONE	RESIDENTIAL	LT.	45	15	21	461	443						0.5	2.7			0.4	0.2								
A-45	26	178+50	GRASS	FIELD	RT.	50	20	19	438					8.1	48.7	0.6		8.1		0.5	0.2								
A-46	27	183+84	GRASS	FIELD	RT.	50	20	19	470					8.7	52.2	0.6		8.7		0.5	0.2								
A-47	28	186+71	STONE	RESIDENTIAL	LT.	47	15	20	455	455						0.5	2.8			0.5	0.2								
A-48	28	187+00	GRASS	MAILBOX APPROACH	RT.	70	13	6	175					4.3	19.4	0.8			4.3	0.7	0.3								
A-49	28	188+68	STONE	RESIDENTIAL	RT.	78	12	20	474	365				2.7	12.1	0.9	2.3		2.7	0.8	0.4								
A-50	30	197+33	GRASS	FIELD	RT.	50	20	20	458					8.5	50.9	0.6		8.5		0.5	0.2				20		40		
A-51	30	198+30	STONE	RESIDENTIAL	LT.	45	15	20	360	338				0.5	2.4	0.5	2.1		0.5	0.4	0.2				52			40	
A-52	30	198+71	GRASS	MAILBOX APPROACH	RT.	70	13	6	175					4.3	19.4	0.8			4.3	0.7	0.3								
A-53	31	202+42	GRASS	FIELD	LT.	50	20	20	458					8.5	50.9	0.6		8.5		0.5	0.2				18			40	
A-54	32	205+49	STONE	FIELD	LT.	50	20	20	458					8.5	50.9	0.6		8.5		0.5	0.2				42				
A-55	33	210+74	STONE	FIELD	RT.	50	20	21	478	291				3.5	20.8	0.6	1.8	3.5		0.5	0.2								
A-56	33	212+68	STONE	RESIDENTIAL	RT.	40	10	21	211	200						0.4	1.2			0.4	0.2								
A-57	33	213+89	GRASS	FIELD	LT.	50	20	19	438					8.1	48.7	0.6		8.1		0.5	0.2								
A-58	33	214+44	STONE	RESIDENTIAL	LT.	42	12	19	313	323						0.5	2.0			0.4	0.2								
A-59	34	216+14	STONE	RESIDENTIAL	LT.	36	11	19	288	279				0.2	1.0	0.4	1.7		0.2	0.3	0.2								
A-60	34	219+00	GRASS	FIELD	RT.	50	20	21	478					8.9	53.1	0.6		8.9		0.5	0.2								
A-61	35	220+16	STONE	RESIDENTIAL W/MAILBOX APPROACH	RT.	75	10	21	412	238				4.3	19.3	0.8	1.5		4.3	0.7	0.3								
A-62	35	222+67	STONE	RESIDENTIAL W/MAILBOX APPROACH	RT.	73	9	21	383	235				3.7	16.4	0.8	1.5		3.7	0.7	0.3								
A-63	35	222+78	STONE	FIELD	LT.	50	20	19	438					8.1	48.7	0.6		8.1		0.5	0.2								
A-64	35	223+66	GRASS	MAILBOX APPROACH	RT.	70	13	6	175					4.3	19.4	0.8			4.3	0.7	0.3								
A-65	35	224+09	STONE	RESIDENTIAL	LT.	40	11	19	298	298						0.4	1.8			0.4	0.2								
A-66	35	224+26	STONE	RESIDENTIAL	RT.	39	9	21	262	227				0.9	3.9	0.4	1.4		0.9	0.4	0.2								
A-67	36	225+55	STONE	RESIDENTIAL	LT.	50	20	19	448	435				0.3	1.4	0.6	2.7		0.3	0.5	0.2								
A-68	36	226+77	STONE	RESIDENTIAL W/MAILBOX APPROACH	RT.	84	20	21	607	440				4.1	18.6	0.9	2.7		4.1	0.8	0.4								
A-69	36	227+12	STONE	FIELD	LT.	50	20	19	440	228				3.9	23.6	0.6	1.4	3.9		0.5	0.2								
A-70	36	228+58	STONE	RESIDENTIAL W/MAILBOX APPROACH	RT.	79	15	20	518	377				3.5	15.7	0.9	2.3		3.5	0.8	0.4								
A-71	38	237+01	STONE	RESIDENTIAL W/MAILBOX APPROACH	RT.	73	9	20	378	173				5.1	22.8	0.8	1.1		5.1	0.7	0.3				25		30		
A-72	38	239+00	GRASS	MAILBOX APPROACH	RT.	70	13	6	175					4.3	19.4	0.8			4.3	0.7	0.3								
A-73	38	239+08	STONE	RESIDENTIAL	LT.	42	12	20	343	337						0.5	2.1			0.4	0.2				26				
A-74	38	239+39	GRASS	FIELD	RT.	50	20	20	458					8.5	50.9	0.6		8.5		0.5	0.2								
A-75	39	244+78	GRASS	FIELD	RT.	50	20	20	466					8.6	51.8	0.6		8.6		0.5	0.2				22		30		
A-76	41	251+51	GRASS	FIELD	LT.	50	20	18	417					7.7	46.3	0.6		7.7		0.5	0.2								
A-77	41	251+58	STONE	RESIDENTIAL W/MAILBOX APPROACH	RT.	72	8	22	387	185	2			5.0	22.4	0.8	1.1		5.0	0.7	0.3				33	32			
A-78	42	257+34	GRASS	FIELD W/MAILBOX APPROACH	RT.	84	20	21	741					13.7	68.3	0.9		13.7		0.8	0.4				30				
A-79	42	257+62	STONE	RESIDENTIAL	LT.	50	20	19	434	382				1.0	5.8	0.6	2.4	1.0		0.5	0.2								
A-80	42	258+17	STONE	FIELD	RT.	50	20	21	478	350				2.4	14.2	0.6	2.2	2.4		0.5	0.2				41				
A-81	42	258+20	GRASS	FIELD	LT.	50	20	19	438					8.1	48.7	0.6		8.1		0.5	0.2								
A-82		ROAD T (6 TO 7)		RES. DRIVES AND MBOX APPROACHES	BOTH	665										7.4	10.0			6.4	3.1								
TOTALS TO GENERAL SUMMARY											2	46	46	395	2182	60	91	282	111	51	23	5	54	367	99	140	80	40	50	68

*MATCH EXISTING THICKNESS IF GREATER THAN 3".

EXTRA WIDENING TABLE

STATION FROM	STATION TO	SIDE	LENGTH	EXTRA WIDENING WIDTH	203 EXCAVATION FOR PAVEMENT WIDENING (10")	204 SUBGRADE COMPACTION	301 ASPHALT CONCRETE BASE FOR WIDENING (4")	304 AGGREGATE BASE FOR WIDENING (6")	408 PRIME COAT (0.4 GAL./S.Y.)
			FT.	FT.	C.Y.	S.Y.	C.Y.	C.Y.	GALLON
100+41	105+00	LT.	459	1	14.2	51.0	8.5	5.7	20.4
115+00	123+00	RT.	800	1.5	37.0	133.3	22.2	14.8	53.3
134+00	139+00	LT.	500	0.5	7.7	27.8	4.6	3.1	11.1
175+00	177+50	RT.	250	1	7.7	27.8	4.6	3.1	11.1
178+50	181+50	LT.	300	1	9.3	33.3	5.6	3.7	13.3
186+00	191+50	RT.	550	1	17.0	61.1	10.2	6.8	24.4
195+00	200+00	LT.	500	1	15.4	55.6	9.3	6.2	22.2
211+00	217+90	RT.	690	1	21.3	76.7	12.8	8.5	30.7
218+70	226+00	RT.	730	1	22.5	81.1	13.5	9.0	32.4
**192+80	198+00	RT.	520	-4	-64.2	-231.1	-38.5	-25.7	-92.4
TOTALS TO PAVEMENT TABLE					87.9	316.6	52.8	35.2	126.5

EXTRA WIDENING WIDTH IS REQUIRED AT THE ABOVE LOCATIONS
**NO WIDENING IS REQUIRED AT THIS LOCATION

EARTHWORK TABLE "E"

SHEET NO.	STATION FROM	STATION TO	203 EXCAVATION	203 EMBANKMENT
			C.Y.	
	ROAD T (6 TO 7)**		1,476.0	260.0
46	100+60	101+90	280.0	249.1
47	102+33	103+49	511.7	273.7
48	104+59	107+09	1,355.0	655.5
49	108+53	110+10	1,190.9	466.1
50	110+50	114+71	128.8	728.4
51	115+20	119+00	123.1	605.1
52	119+26	120+85	121.2	358.8
53	120+93	123+00	699.4	409.4
54	124+00	126+00	978.9	559.8
55	127+00	128+60	775.1	512.7
56	128+90	130+50	66.9	224.8
57	131+20	133+00	485.3	493.8
58	134+00	136+50	847.6	674.7
59	137+40	140+24	981.2	636.0
60	140+30	141+83	48.9	242.6
61	141+97	143+87	78.8	398.3
62	144+50	147+60	1,108.9	645.5
63	148+00	150+00	1,188.0	495.3
64	150+24	151+04	169.0	292.2
65	151+50	153+42	849.3	201.0
66	154+50	156+41	96.2	452.2
67	156+55	158+37	480.5	216.1
68	158+60	160+00	453.6	139.1
69	160+70	163+00	787.0	345.9
70	164+00	168+00	896.9	489.5
71	169+00	176+00	336.1	675.5
72	177+00	183+31	223.8	625.8
73	183+50	190+00	238.0	304.3
74	191+00	200+00	418.7	412.3
75	201+00	209+00	468.4	853.9
76	210+00	213+89	215.6	453.2
77	214+44	222+67	284.7	376.7
78	222+78	227+30	146.1	133.3
79	228+00	235+00	361.5	480.6
80	236+00	244+00	395.3	834.4
81	244+78	251+55	375.4	780.0
82	252+00	257+75	286.7	843.1
83	258+20	263+50	213.4	981.7
84	264+00	270+70	446.9	812.1
		SUBTOTAL	20,588.8 *	19,592.5
	TOTAL FROM PAVEMENT TABLE-PAVEMENT WIDENING		-5,793.0	
	TOTALS TO GENERAL SUMMARY		14,796	19,593

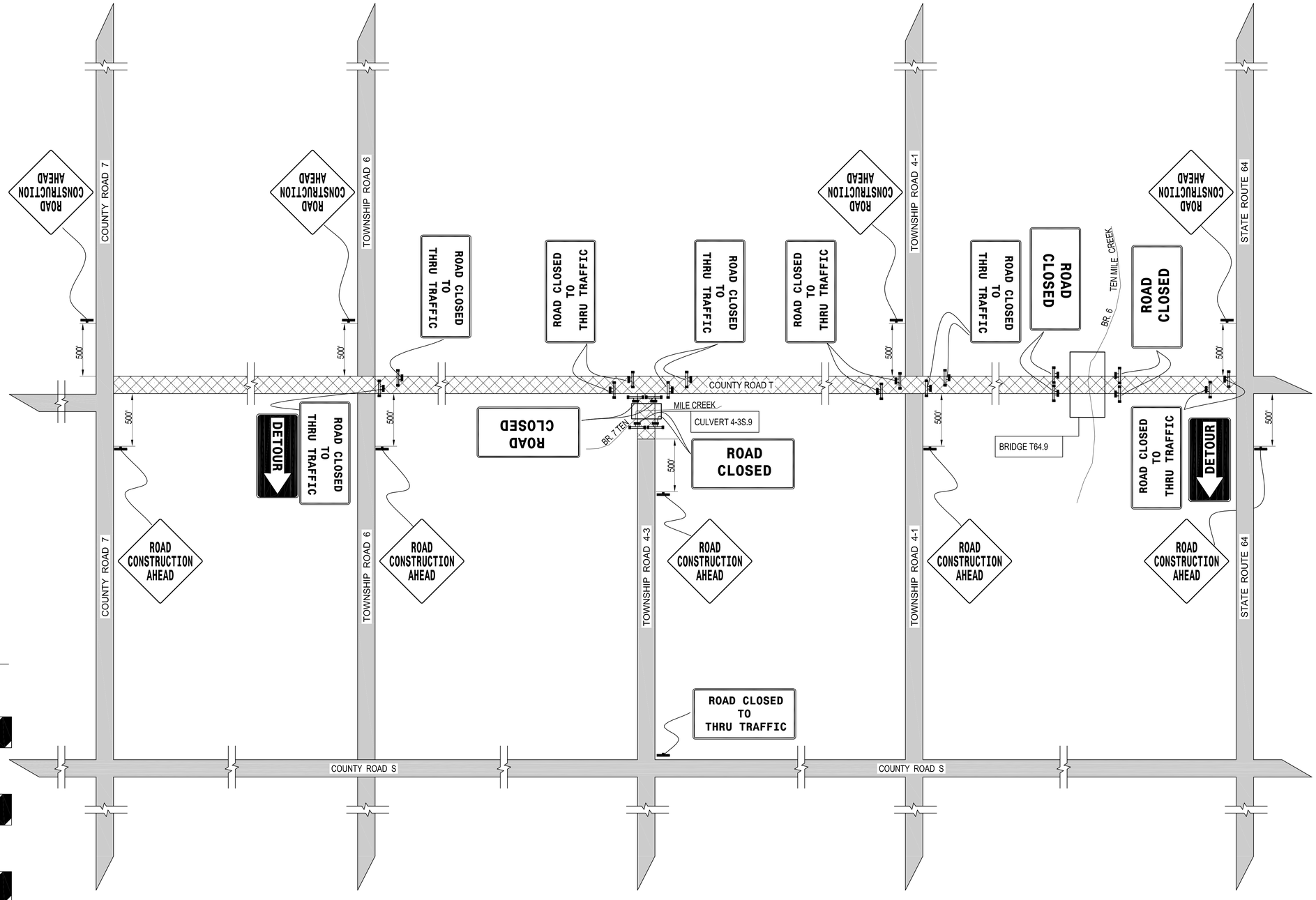
*THE SUBTOTAL FOR EXCAVATION INCLUDES PAVEMENT WIDENING
**QUANTITIES FOR ROAD T (6 TO 7) ARE FIGURED FOR AN AVERAGE OF 4' OF EMBANKMENT ON EACH SIDE OF THE OVERLAY, AS NECESSARY AND AS DETERMINED BY THE ENGINEER

Drawn By: HKD/BDL | Checked By: FTO
Date: 2/13/2012 | Revised: N/A | N/A

FULTON COUNTY ROAD T (CO. RD. 7 TO S.R. 64)
QUANTITY TABLES

FULTON COUNTY ENGINEERING DEPT.
FRANK T. CONWELLER, P.E., P.S., COUNTY ENGINEER
ROD CREAGER, P.E., P.S., CHIEF DEPUTY ENGINEER
9120 Co Rd 14, WAUSEON, OHIO, 43567
PHONE (419)335-3816 FAX (419)335-1091

File: G:\Projects\Roads\County\Road T (7 to SR64)\dwgs\Quantity Tables.dwg - Feb 10, 2012 - 9:05am - Fulton County Engineer's Office



TYPICAL PORTABLE/MOVABLE
TYPE III BARRICADE

NOT TO SCALE

NOTE:
THE TYPE III ROAD CLOSED TO THRU TRAFFIC BARRICADES SHALL BE PLACED AS NEEDED. A DETOUR ARROW DIRECTING TRAFFIC TO THE SOUTH SHALL BE PLACED ON A TYPE III BARRICADE AT THE END OF EACH CLOSED SECTION.

KEY

NOT TO SCALE

- TYPE III BARRICADES
- CONSTRUCTION SIGNS
- CONSTRUCTION ZONE

Drawn By: HKD/BDL | Checked By: FTO
Date: 2/13/2012 | Revised: N/A N/A

FULTON COUNTY ROAD T (CO. RD. 7 TO S.R. 64)
MAINTENANCE OF TRAFFIC

FULTON COUNTY ENGINEERING DEPT.
FRANK T. OWNLEY, P.E., P.S., COUNTY ENGINEER
ROD DREAGER, P.E., P.S., CHIEF DEPUTY ENGINEER
9120 Co Rd 14, WAUSEON, OHIO, 43567
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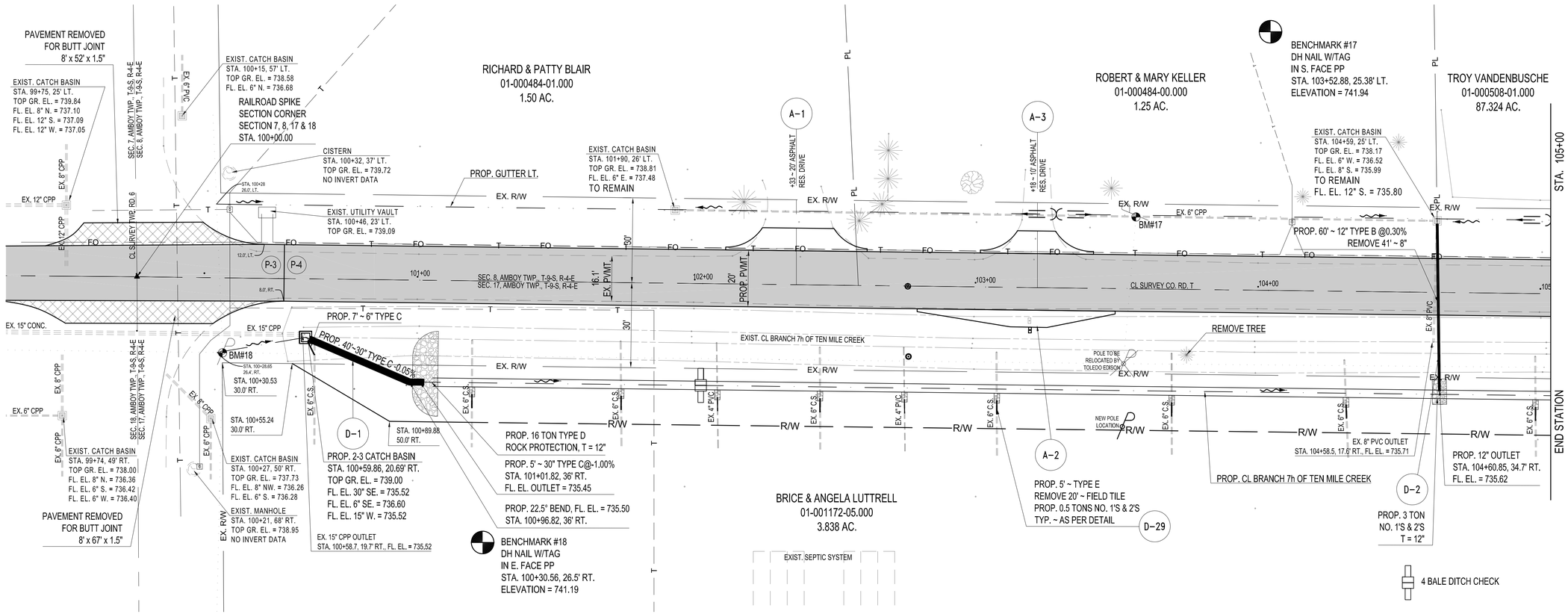

HORIZONTAL SCALE IN FEET

Drawn By: HKD/BDL | Checked By: FTO

Date: 2/13/2012 | Revised: N/A | N/A

FULTON COUNTY ROAD T (CO. RD. 7 TO S.R. 64)
PLAN AND PROFILE ~ STA. 100+00 TO STA. 105+00

FULTON COUNTY ENGINEERING DEPT.
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9120 Co Rd 14, WAUSEON, OHIO, 43567
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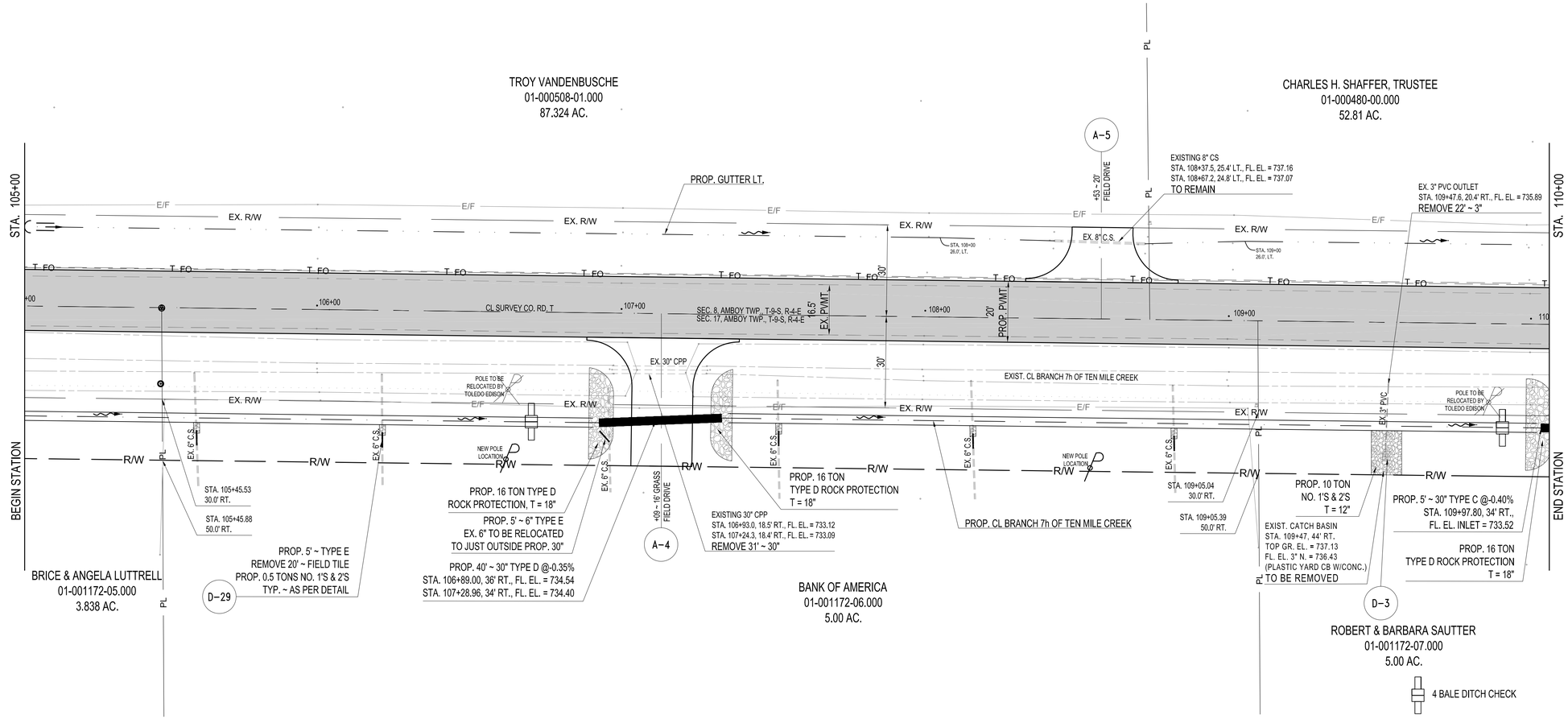
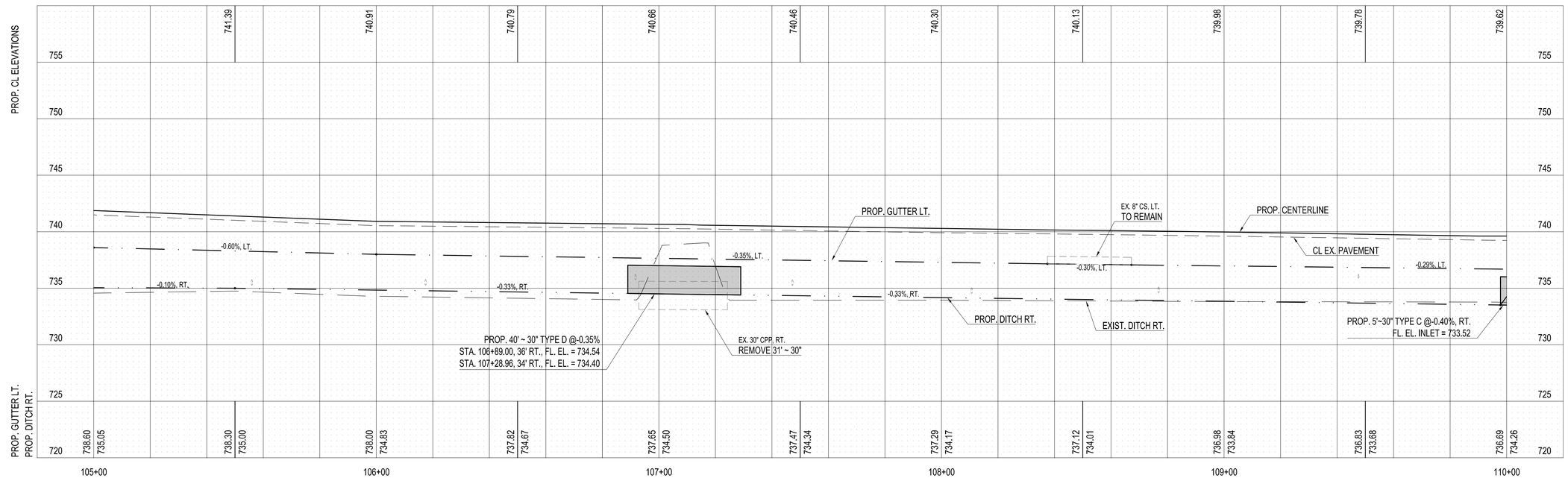
File: G:\Projects\Roads\County\Road T (7 to SR64)\dwgs\RCp01001.dwg – Feb 13, 2012 – 2:09pm – Fulton County Engineer's Office





HORIZONTAL SCALE IN FEET

Drawn By: HKD/BDL
Checked By: FTO
Date: 2/13/2012
Revised: N/A
Revised: N/A

FULTON COUNTY ROAD T (CO. RD. 7 TO S.R. 64)
PLAN AND PROFILE ~ STA. 105+00 TO STA. 110+00

FULTON COUNTY ENGINEERING DEPT.
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File: G:\Projects\Roads\County\Road T (7 to SR64)\dwgs\RCp02001.dwg – Feb 13, 2012 – 3:28pm – Fulton County Engineer's Office

BENCHMARK #16
DH NAIL W/TAG
IN S. FACE PP
STA. 112+58.84, 25.83' LT.
ELEVATION = 738.67

CHARLES H. SHAFFER, TRUSTEE
01-000480-00.000
52.81 AC.

STA. 110+00

STA. 115+00

BEGIN STATION

END STATION

EX. R/W

PROP. 22.5° BEND, FL. EL. = 733.36
STA. 110+39.76, 18.69' RT.

EXIST. CATCH BASIN
STA. 111+63, 25' LT.,
TOP GR. EL. = 736.01
FL. EL. 1.5" N. = 734.21
FL. EL. 8" E. = 734.21
TO REMAIN

PROP. 15" INLINE DRAIN
STA. 112+46, 26' RT.
TOP GR. EL. = 736.40
FL. EL. 8" N. = 734.50
FL. EL. 8"@ OUTLET = 734.20

BM#16

A-8

+98 - 12' STONE RES. DRIVE

PROP. GUTTER LT.

EXISTING 10" CS
STA. 114+31.5, 24.5' LT., FL. EL. = 735.37
STA. 114+61.1, 24.4' LT., FL. EL. = 735.33
REMOVE 30' ~ 10"

A-9

+45 - 20' FIELD DRIVE

EXIST. CATCH BASIN
STA. 114+22, 25' LT.
TOP GR. EL. = 735.26
FL. EL. 8" W. = 733.26
FL. EL. 12" S. = 733.11
TO REMAIN
FL. EL. 10" E. = 733.30

PROP. 40' ~ 10" TYPE D @4.25%
STA. 114+62.18, 27' LT.,
FL. EL. = 735.00

EX. 8" CPP
STA. 113+97
25.0' LT.

EX. 10" CS

PROP. 2' ~ 12" TYPE C
TIE EX. 12" INTO PROP. 30"

EX. 12" PVC OUTLET
STA. 114+29.6, 15.6' RT., FL. EL. = 732.97

EX. 27" PVC

PROP. 20' PVMT.

EX. PVMT.

16.6'

80'

30'

SEC. 8, AMBOY TWP., T-9-S, R-4-E
SEC. 17, AMBOY TWP., T-9-S, R-4-E

CL SURVEY CO. RD. T

PROP. 150' ~ 30" TYPE C @-0.35%

PROP. 40'~30" TYPE C @-0.35%

STA. 110+35
26.0' RT.

NEW POLE LOCATION

STA. 110+43.70
30.0' RT.

TIE EX. 6" INTO PROP. 30"

EX. 6" C.S.

EX. 6" TILE

PROP. GUTTER RT.

PROP. 1' ~ 6" TYPE E
TIE EX. 6" INTO PROP. 30"

STA. 110+06
34.0' RT.

PROP. 22.5° BEND, FL. EL. = 733.50
STA. 110+02.80, 34' RT.

STA. 110+03.39
50.0' RT.

EXIST. SEPTIC SYSTEM

D-3

PROP. 9' ~ 4" TYPE C

EX. 4" CPP

EX. 4" PVC

PROP. 8' ~ 10" TYPE C@3.75%

PROP. 2-2B CATCH BASIN
STA. 111+61, 26' RT.
TOP GR. EL. = 737.50
FL. EL. 10" N. = 734.50
FL. EL. 4" S. = 734.60
FL. EL. 4" W. = 735.50
FL. EL. 10"@ OUTLET = 734.20

EXISTING 30" CPP
STA. 111+89.76, 17.7' RT., FL. EL. = 732.84
STA. 112+40.8, 18.0' RT., FL. EL. = 732.84
TO REMAIN

EX. 30" CPP

EX. 27" RCP

PROP. 7' ~ 8"
TYPE C@4.29%

STA. 112+64.12
30.0' RT.

TIE EX. 6"
INTO PROP. 30"

EX. 6" PVC

EX. 4" CPP

PROP. 216' ~ 30" TYPE C @-0.51%

PROP. 7' ~ 10" TYPE C@4.29%

PROP. 4' ~ 4" TYPE E
TIE EX. 4" INTO PROP. 30"

STA. 113+04.18
30.0' RT.

EXISTING 27" RCP
STA. 112+79.2, 18.0' RT., FL. EL. = 732.48
STA. 113+01.5, 18.0' RT., FL. EL. = 732.26
REMOVE 22' ~ 27"

D-4

EXIST. SEPTIC SYSTEM

PROP. 2-2B CATCH BASIN
STA. 114+25, 25' RT.
TOP GR. EL. = 736.50
FL. EL. 10" N. = 734.00
FL. EL. 8" S. = 734.10
FL. EL. 10"@ OUTLET = 733.70

PROP. 3' ~ 8" TYPE C, CAPPED

EX. 30" CPP
STA. 114+61
25.0' RT.

EXISTING 30" CPP
STA. 114+56.6, 17.6' RT., FL. EL. = 731.73
STA. 114+86.6, 18.3' RT., FL. EL. = 731.73
TO REMAIN

+71 - 20' CONC. RES. DRIVE

A-10

D-5

PROP. 14'(57') ~ 30" TYPE C@-0.55%

+25 - 12' STONE RES. DRIVE

A-6

A-7

+91 - 11.5' GRASS FIELD DRIVE

PL

ROBERT & BARBARA SAUTTER
01-001172-07.000
5.00 AC.

ALMYRA SHAFFER, TRUSTEE
01-001172-00.000
16.154 AC.

MICHAEL & CHERI MITCHEY
01-001168-01.000
3.00 AC.

PROP. CL ELEVATIONS

PROP. GUTTER LT.
PROP. DITCH RT.

750 745 740 735 730 725 720 715

739.52 739.48 739.13 738.83 738.58 738.36 738.38 738.29 738.31 738.18

EXIST. CATCH BASIN
STA. 111+63, 25' LT.
TOP GR. EL. = 736.01
FL. EL. 1.5" N. = 734.21
FL. EL. 8" E. = 734.21
TO REMAIN

PROP. GUTTER LT.

PROP. GUTTER RT.

EX. 30" CPP, RT.
TO REMAIN

PROP. CENTERLINE

CL EX. PAVEMENT

EXIST. CATCH BASIN
STA. 114+22, 25' LT.
TOP GR. EL. = 735.26
FL. EL. 8" W. = 733.26
FL. EL. 12" S. = 733.11
TO REMAIN
FL. EL. 10" E. = 733.30

PROP. 40'~10" TYPE D @4.25%, LT.

EX. 10" CS, LT.
REMOVE 30' ~ 10"

PROP. 9'~4" TYPE C, RT.

0.67%, RT. -0.29%, LT. -0.25%, RT. -0.62%, LT. 0.18%, RT. 5.24%, LT. 0.36%, LT. -7.86%, RT. 1.25%, RT. -1.76%, LT. -0.24%, RT. -1.51%, LT. 0.94%, RT. 3.38%, LT. -1.21%, RT. 0.30%, LT.

EX. 8" CPP, LT.

EX. 8" CPP, LT.

PROP. 40'~30" TYPE C @-0.35%, RT.

PROP. 150'~30" TYPE C @-0.35%, RT.

PROP. 2-2B CATCH BASIN
STA. 111+61, 26' RT.
TOP GR. EL. = 737.50
FL. EL. 10" N. = 734.50
FL. EL. 4" S. = 734.60
FL. EL. 4" W. = 735.50
FL. EL. 10"@ OUTLET = 734.20

PROP. 15" INLINE DRAIN
STA. 112+46, 26' RT.
TOP GR. EL. = 736.40
FL. EL. 8" N. = 734.50
FL. EL. 8"@ OUTLET = 734.20

EX. 27" RCP, RT.
REMOVE 22' ~ 27"

PROP. 216'~30" TYPE C @-0.51%, RT.

EXIST. DITCH RT.

EX. 30" CPP, RT.
TO REMAIN

PROP. 14'(57')~30" TYPE C @-0.55%, RT.

PROP. 2-2B CATCH BASIN
STA. 114+25, 25' RT.
TOP GR. EL. = 736.50
FL. EL. 10" N. = 734.00
FL. EL. 8" S. = 734.10
FL. EL. 10"@ OUTLET = 733.70

+01, 736.80

+58, 735.70

| | | |

CHARLES H. SHAFFER, TRUSTEE
01-000480-00.000
52.81 AC.

DIANE L. PATEK, CO-TRUSTEE
01-000460-01.000
20.0 AC.

STA. 115+00

STA. 120+00

BEGIN STATION

END STATION

PROP. GUTTER LT.

EX. R/W

E/F

FO

T

TIE EX. 6" INTO PROP. 30"

PROP. 7' ~ 8" TYPE C@4.29%

TIE EX. 4" INTO PROP. 30"

116+00

117+00

118+00

119+00

SEC. 8, AMBOY TWP., T-9-S, R-4-E
SEC. 17, AMBOY TWP., T-9-S, R-4-E

16.2' EX. P/MT.

30'

CL SURVEY CO. RD. T

20' PROP. P/MT.

EXISTING 18" RCP
STA. 118+21.5, 16.1' RT., FL. EL. = 731.23
STA. 119+07.6, 15.2' RT., FL. EL. = 731.27
REMOVE 86' ~ 18"

A-14

+00 ~ 20' FIELD DRIVE

PROP. 2-2B CATCH BASIN
STA. 119+26, 27' RT.
TOP GR. EL. = 734.90
FL. EL. 10" N. = 732.40
FL. EL. 4" W. = 733.00
FL. EL. 8" S. = 732.50
FL. EL. 10"@ OUTLET = 732.10

PROP. 2' ~ 6" TYPE E
TIE EX. 6" INTO PROP. 30"

PROP. 43'(57')~30" TYPE C @-0.55%

PROP. 414'(460') ~ 30" TYPE C @-0.12%

EX. 30" CPP

EX. 6" P/C

EX. 4" CPP

STA. 115+00
26.0' RT.

STA. 115+34.18
30.0' RT.

+64 ~ 25' STONE RES. DRIVE

STA. 115+77
26' RT.

EXISTING 30" CPP
STA. 115+43.1, 18.2' RT., FL. EL. = 731.42
STA. 115+85.7, 18.4' RT., FL. EL. = 731.18
TO REMAIN

PROP. 8" ~ 10" TYPE C@3.75%

PROP. 3' ~ 8" TYPE C, CAPPED

PROP. 2-2B CATCH BASIN
STA. 116+80, 26' RT.
TOP GR. EL. = 735.90
FL. EL. 10" N. = 732.80
FL. EL. 8" S. = 732.90
FL. EL. 10"@ OUTLET = 732.50

PROP. GUTTER RT.

PROP. 2' ~ 4" TYPE E
TIE EX. 4" INTO PROP. 30"

EXIST. SEPTIC SYSTEM

EX. 4" P/C

EX. 15" RCP

EX. 18" RCP

EXISTING 15" RCP
STA. 118+22.6, 17.5' RT., FL. EL. = 732.52
STA. 119+09.1, 17.3' RT., FL. EL. = 731.90
REMOVE 87' ~ 15"

+37 ~ 10' CONC. RES. DRIVE

STA. 118+98
27.0' RT.

STA. 118+86
26.0' RT.

PROP. 8' ~ 8" TYPE C@5.00%

+91 ~ 10' STONE RES. DRIVE

PROP. 9' ~ 10" TYPE C@3.33%

EX. 6" P/C

STA. 119+42
27.0' RT.

STA. 119+59.18
30.0' RT.

PROP. 3' ~ 8" TYPE C, CAPPED

PROP. 4' ~ 4" TYPE E

EXISTING 36" CPP
STA. 119+58.3, 16.5' RT., FL. EL. = 730.30
STA. 119+99.5, 15.8' RT., FL. EL. = 730.35
REMOVE 41' ~ 36"
REMOVE (2) TIRE HEADWALLS

EXISTING 15" RCP
STA. 119+08.5, 25.7' RT., FL. EL. = 734.31
STA. 119+08.5, 32.8' RT., FL. EL. = 734.43
REMOVE 7' ~ 15"

+78 ~ 28' STONE RES. DRIVE

STA. 119+68.68
30.0' RT.

EX. 36" CPP

EX. 4" P/C

TIE EX. 4" INTO PROP. 30"

D-5

A-11

D-6

A-12

A-13

A-15

MICHAEL & CHERI MITCHEY
01-001168-01.000
3.00 AC.

PROP. 15" INLINE DRAIN
STA. 115+20, 26' RT.
TOP GR. EL. = 736.20
FL. EL. 8" N. = 733.30
FL. EL. 8"@OUTLET = 733.00

DAVID & ROBIN MITCHEY
01-001168-02.000
2.54 AC.

EXIST. SEPTIC SYSTEM

EXIST. SEPTIC SYSTEM

DIANE L. PATEK, CO-TRUSTEE
01-001168-03.000
3.001 AC.

PROP. 15" INLINE DRAIN
STA. 118+60, 26' RT.
TOP GR. EL. = 736.70
FL. EL. 8" N. = 732.70
FL. EL. 8"@OUTLET = 732.30

PAUL & MONICA PATEK
01-001168-00.000
30.588 AC.

PROP. CL ELEVATIONS

PROP. GUTTER LT.
PROP. DITCH RT.

738.04 738.10 737.97 738.08 738.15 738.39 738.12 738.18 737.82 737.75

735.11 736.70 | 735.26 736.60 | +78, 736.70 | 735.41 736.20 | 735.56 736.01 | 735.71 735.95 | 735.85 736.08 | 736.00 736.20 | +30, 737.30 | +43, 737.45 736.15 737.00 | +83, 737.15 | 736.30 736.87 | +97, 737.10 | 735.60 735.89 | +60, 736.30 | +78, 736.70 | 734.90 736.25 | +95, 736.30

750 745 740 735 730 725 720 715

115+00 116+00 117+00 118+00 119+00 120+00

PROP. 43'(57')~30" TYPE C @-0.55%, RT.

PROP. CENTERLINE

CL EX. PAVEMENT

PROP. GUTTER RT.

PROP. GUTTER LT.

EX. 15" RCP, RT.
REMOVE 87' ~ 15"

EX. 18" RCP, RT.
REMOVE 86' ~ 18"

PROP. 2-2B CATCH BASIN
STA. 119+26, 27' RT.
TOP GR. EL. = 734.90
FL. EL. 10" N. = 732.40
FL. EL. 4" W. = 733.00
FL. EL. 8" S. = 732.50
FL. EL. 10"@ OUTLET = 732.10

-2.50% RT. 1.33% RT. -0.36% RT. -2.27% RT. -0.38% RT. 0.30% LT. 0.25% RT. 3.67% RT. -3.00% RT. 1.96% RT. -0.38% RT. -7.58% RT. 4.19% RT. 2.22% RT. 2.35% RT. 1.40% LT.

PROP. 15" INLINE DRAIN
STA. 115+20, 26' RT.
TOP GR. EL. = 736.20
FL. EL. 8" N. = 733.30
FL. EL. 8"@OUTLET = 733.00

EX. 30" CPP, RT.
TO REMAIN

PROP. 2-2B CATCH BASIN
STA. 116+80, 26' RT.
TOP GR. EL. = 735.90
FL. EL. 10" N. = 732.80
FL. EL. 8" S. = 732.90
FL. EL. 10"@ OUTLET = 732.50

EXIST. DITCH RT.

PROP. 414'(460')~30" TYPE C @-0.12%, RT.

PROP. 15" INLINE DRAIN
STA. 118+60, 26' RT.
TOP GR. EL. = 736.70
FL. EL. 8" N. = 732.70
FL. EL. 8"@OUTLET = 732.30

EX. 15" RCP, RT.
REMOVE 7' ~ 15"

EX. 36" CPP, RT.
REMOVE 41' ~ 36"

Drawn By: HKD/BDL
Checked By: FTO
Date: 2/13/2012
Revised: N/A N/A

HORIZONTAL SCALE IN FEET
10 0 10 20

FULTON COUNTY ROAD T (CO. RD. 7 TO S.R. 64)
PLAN AND PROFILE ~ STA. 115+00 TO STA. 120+00

FULTON COUNTY ENGINEERING DEPT.
FRANK T. OMWELLER, P.E., P.S., COUNTY ENGINEER
ROD CREAGER, P.E., P.S., CHIEF DEPUTY ENGINEER
9120 Co Rd 14, WAUSEON, OHIO. 43567
PHONE (419)335-3816 FAX (419)335-1091

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DIANE PATEK, CO-TRUSTEE
01-000460-01.000
20.0 AC.

BENCHMARK #15
DH NAIL W/TAG
IN S. FACE PP
STA. 120+24, 249.96' LT.
ELEVATION = 736.48

SCOTT & JENNIFER CONRAD
01-000460-00.000
27.247 AC.

PATRICK & JANET BURGHARDT
01-000464-00.000
5.231 AC.

PAUL & MONICA PATEK
01-001168-00.000
30.588 AC.

BEGIN STATION
STA. 120+00
STA. 120+08.07
50.0' RT.

END STATION
STA. 125+00

EXIST. CATCH BASIN
STA. 121+25, 27' LT.
TOP GR. EL. = 733.43
FL. EL. 6" N. = 731.83
FL. EL. 12" S. = 731.78
TO REMAIN

EX. 6" CPP

D-7

A-16

+04 - 14" STONE FIELD DRIVE

PROP. 22.5° BEND, FL. EL. = 730.62
STA. 120+45.66, 17.78' RT.

EX. 12" RCP OUTLET
STA. 121+24.5, 14.3' RT., FL. EL. = 731.44

EX. 12" RCP

SEC. 8, AMBOY TWP., T-9-S, R-4-E
SEC. 17, AMBOY TWP., T-9-S, R-4-E

CL SURVEY CO. RD. T

PROP. 20' PVMT.

EX. 16.4' PVMT.

PROP. GUTTER LT.

EXIST. CL BRANCH 7h OF TEN MILE CREEK

PROP. 46'(460')~30" TYPE C @-0.12%

PROP. 45'~30" TYPE C @-0.11%

TIE EX. 4" INTO PROP. 30"

EXIST. SEPTIC SYSTEM

D-6

D-29

EX. 4" P/VC

NEW POLE LOCATION

POLE TO BE RELOCATED BY TOLEDO EDISON

PROP. 5' ~ 30" TYPE C @-0.20%
STA. 120+92.23, 35' RT.,
FL. EL. OUTLET = 730.56

PROP. 16 TON
TYPE D ROCK PROTECTION
T = 18"

PROP. 5' ~ 4" TYPE E
EX. 4" TO BE LOCATED TO
JUST OUTSIDE PROP. 30"

PROP. 22.5° BEND, FL. EL. = 730.57
STA. 120+87.23, 35' RT.

PROP. 18' ~ 12" TYPE C
STA. 121+24.6, 32.3' RT.
FL. EL. OUTLET = 731.20

PROP. 3 TON
NO. 1'S & 2'S
T = 12"

PROP. 5' ~ TYPE E
REMOVE 20' ~ FIELD TILE
PROP. 0.5 TONS NO. 1'S & 2'S
TYP. ~ AS PER DETAIL

PROP. CL BRANCH 7h OF TEN MILE CREEK

4 BALE DITCH CHECK

PROP. CL ELEVATIONS

PROP. GUTTER LT.
PROP. DITCH RT.

120+00	121+00	122+00	123+00	124+00	125+00
734.90 / 736.25	734.45 / 735.73	+72, 735.50	734.00 / 730.55	734.14 / 730.50	+94, 735.40 / 735.35 / 730.45 / +16, 735.20
735.11 / 730.40	734.98 / 730.35	734.84 / 730.30	734.71 / 730.25	734.58 / 730.20	734.44 / 730.15

737.29 · 737.16 · 736.86 · 736.58 · 736.67 · 736.70 · 736.77 · 736.84 · 736.90 · 736.95

PROP. 45'~30" TYPE C @-0.11%, RT.
EXIST. CATCH BASIN
STA. 121+25, 27' LT.
TOP GR. EL. = 733.43
FL. EL. 6" N. = 731.83
FL. EL. 12" S. = 731.78
TO REMAIN
PROP. CENTERLINE
CL EX. PAVEMENT
PROP. GUTTER LT.
-1.04% RT.
-0.90% LT.
-2.28% LT.
2.86% LT.
-0.91% LT.
-0.27% LT.
-0.10% RT.
PROP. 5'~30" TYPE C @-0.20% RT.
FL. EL. OUTLET = 730.56
PROP. 46'(460')~30" TYPE C @-0.12% RT.
PROP. DITCH RT.
EXIST. DITCH RT.

HORIZONTAL SCALE IN FEET
10 0 10 20

Drawn By: HKD/BDL
Checked By: FTO
Date: 2/13/2012
Revised: N/A
Revised: N/A

FULTON COUNTY ROAD T (CO. RD. 7 TO S.R. 64)
PLAN AND PROFILE ~ STA. 120+00 TO STA. 125+00

FULTON COUNTY ENGINEERING DEPT.
FRANK T. OMWELER, P.E., P.S., COUNTY ENGINEER
ROD CREAGER, P.E., P.S., CHIEF DEPUTY ENGINEER
9120 Co Rd 14, WAUSEON, OHIO 43567
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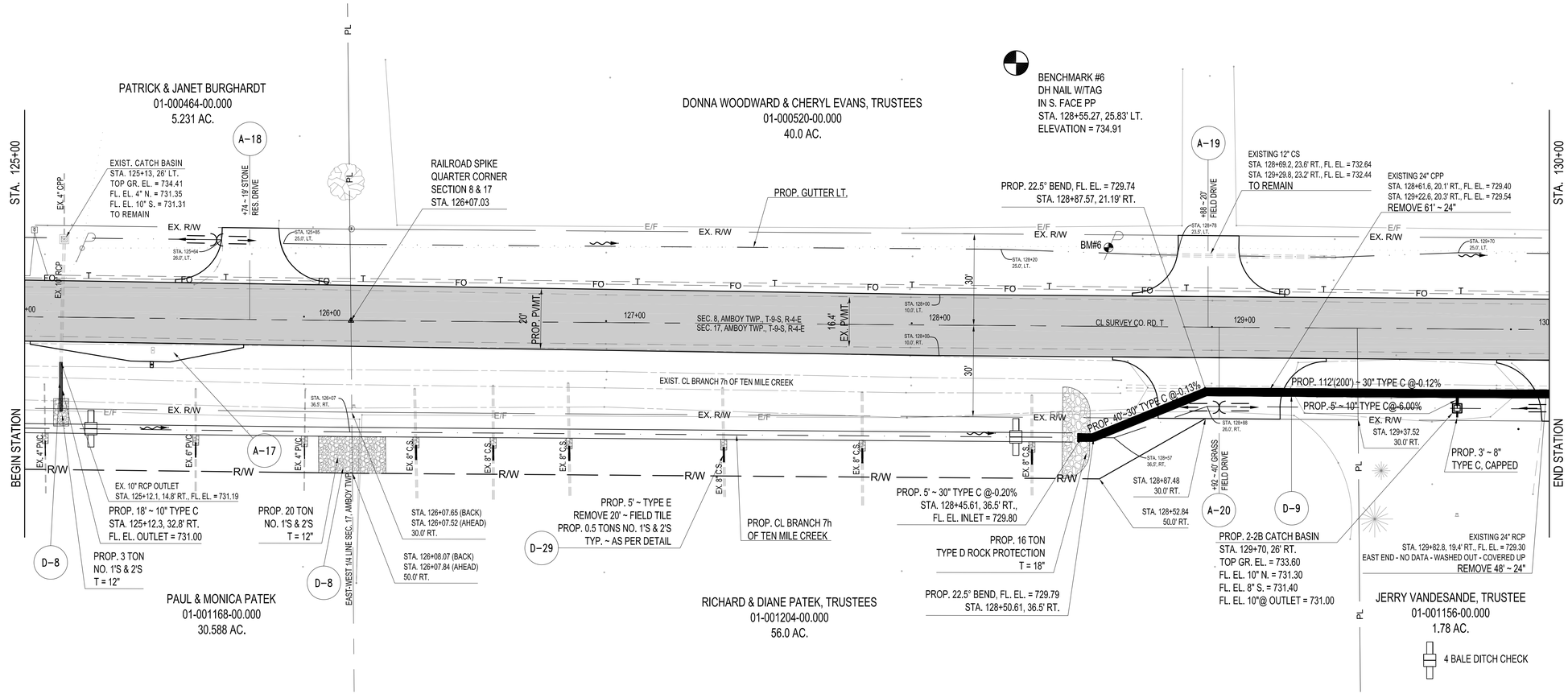

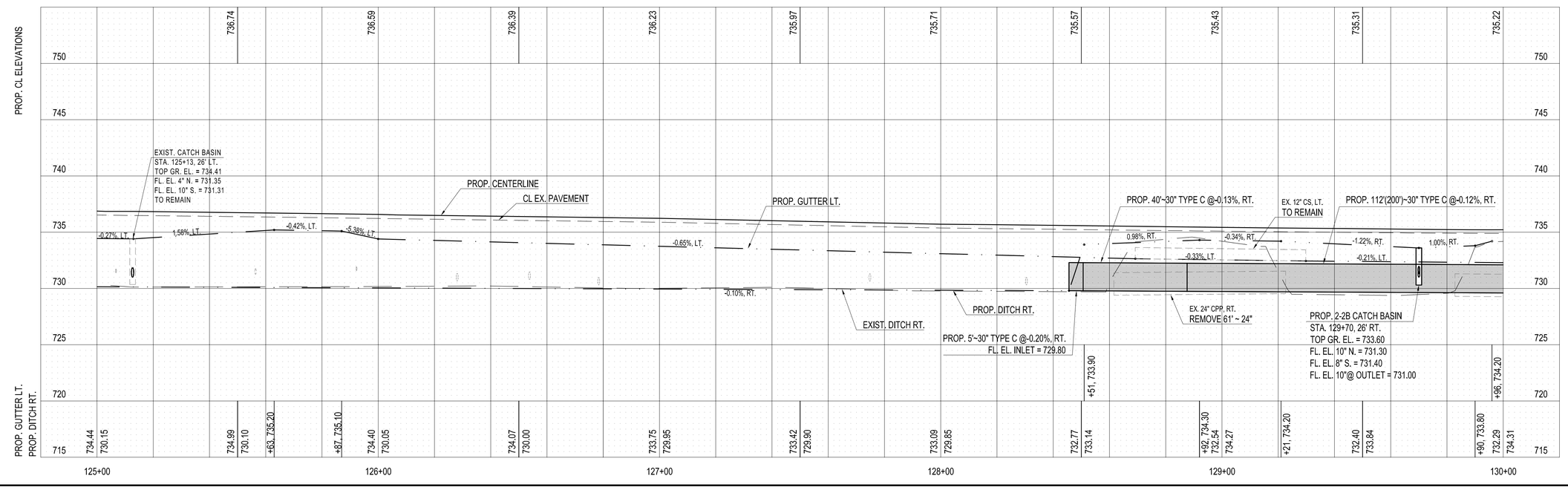

FULTON COUNTY ENGINEERING DEPT.
FRANK T. DINWILLER, P.E., P.S., COUNTY ENGINEER
ROD DREAGER, P.E., P.S., CHIEF DEPUTY ENGINEER
9120 Co Rd 14, WAUSEON, OHIO, 43567
PHONE (419)335-3816 FAX (419)335-1091

HORIZONTAL SCALE IN FEET

Drawn By: HKD/BDL | Checked By: FTO

Date: 2/13/2012 | Revised: N/A | N/A

FULTON COUNTY ROAD T (CO. RD. 7 TO S.R. 64)
PLAN AND PROFILE ~ STA. 125+00 TO STA. 130+00

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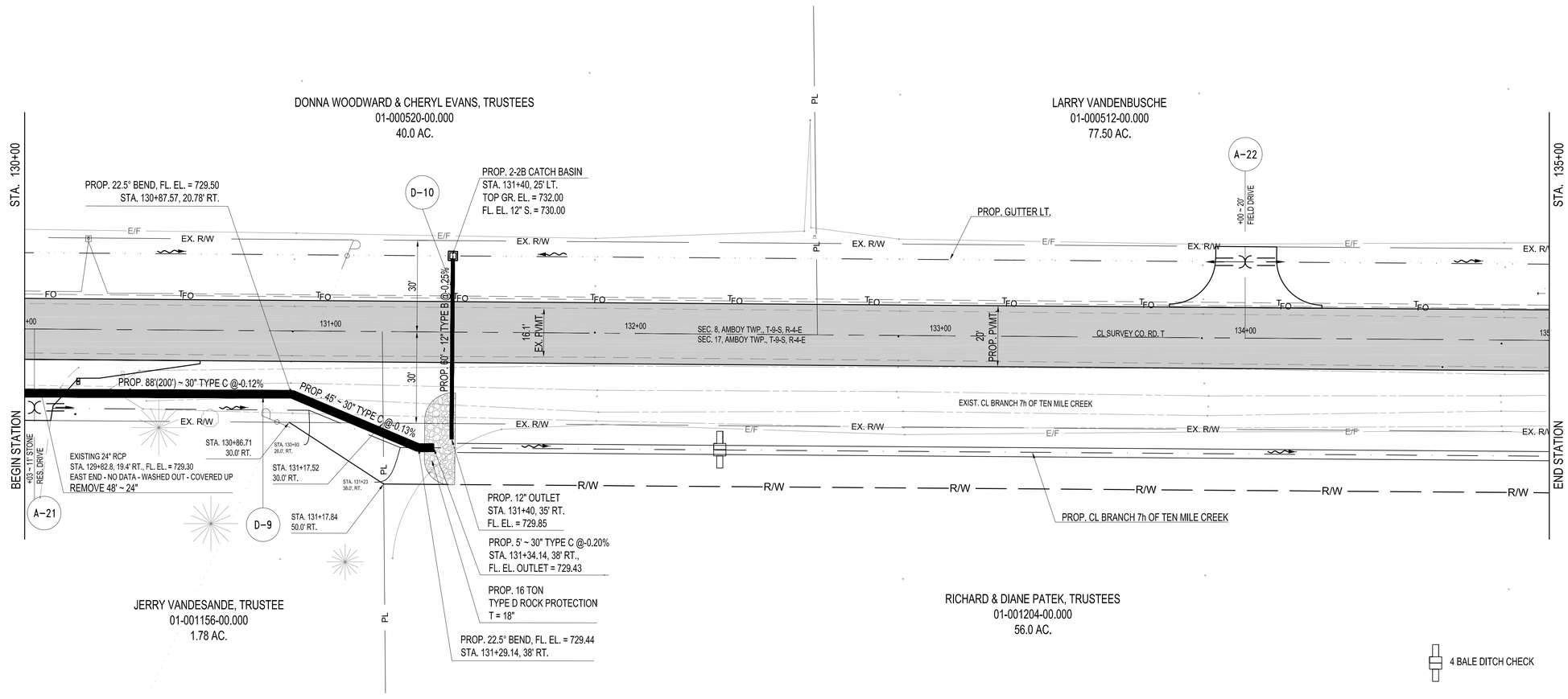

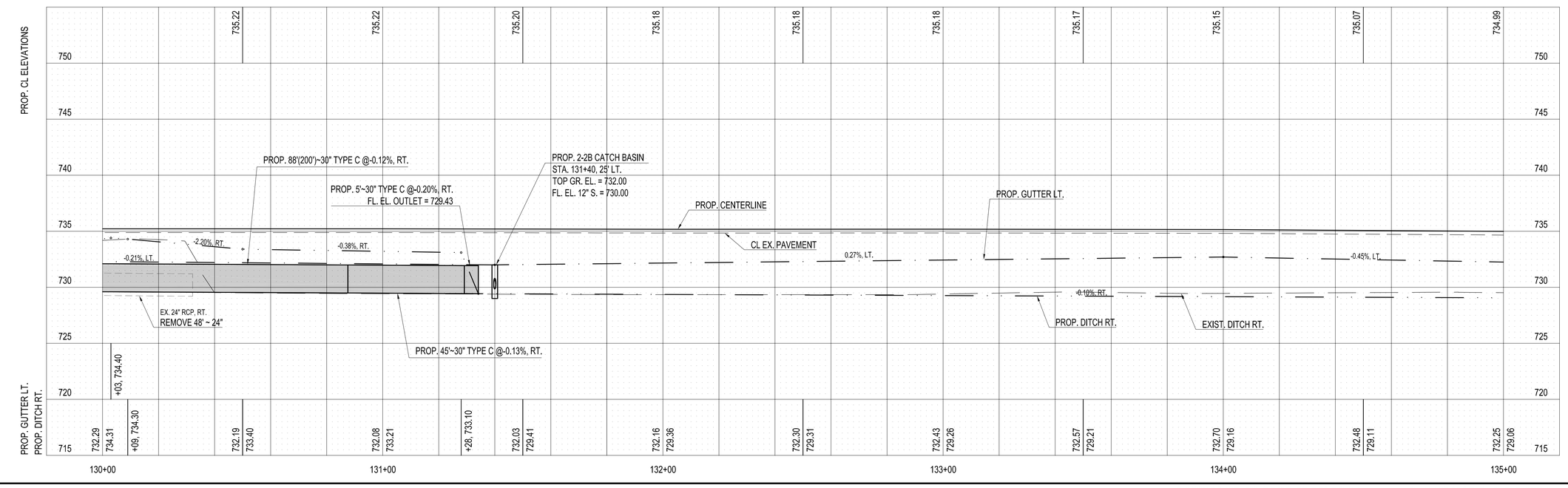

HORIZONTAL SCALE IN FEET

Drawn By: HKD/BDL
Checked By: FTO
Date: 2/13/2012
Revised: N/A
Revised: N/A

FULTON COUNTY ROAD T (CO. RD. 7 TO S.R. 64)
PLAN AND PROFILE ~ STA. 130+00 TO STA. 135+00

FULTON COUNTY ENGINEERING DEPT.
FRANK T. OMWELLER, P.E., P.S. - COUNTY ENGINEER
ROD D'REAGER, P.E., P.S. - CHIEF DEPUTY ENGINEER
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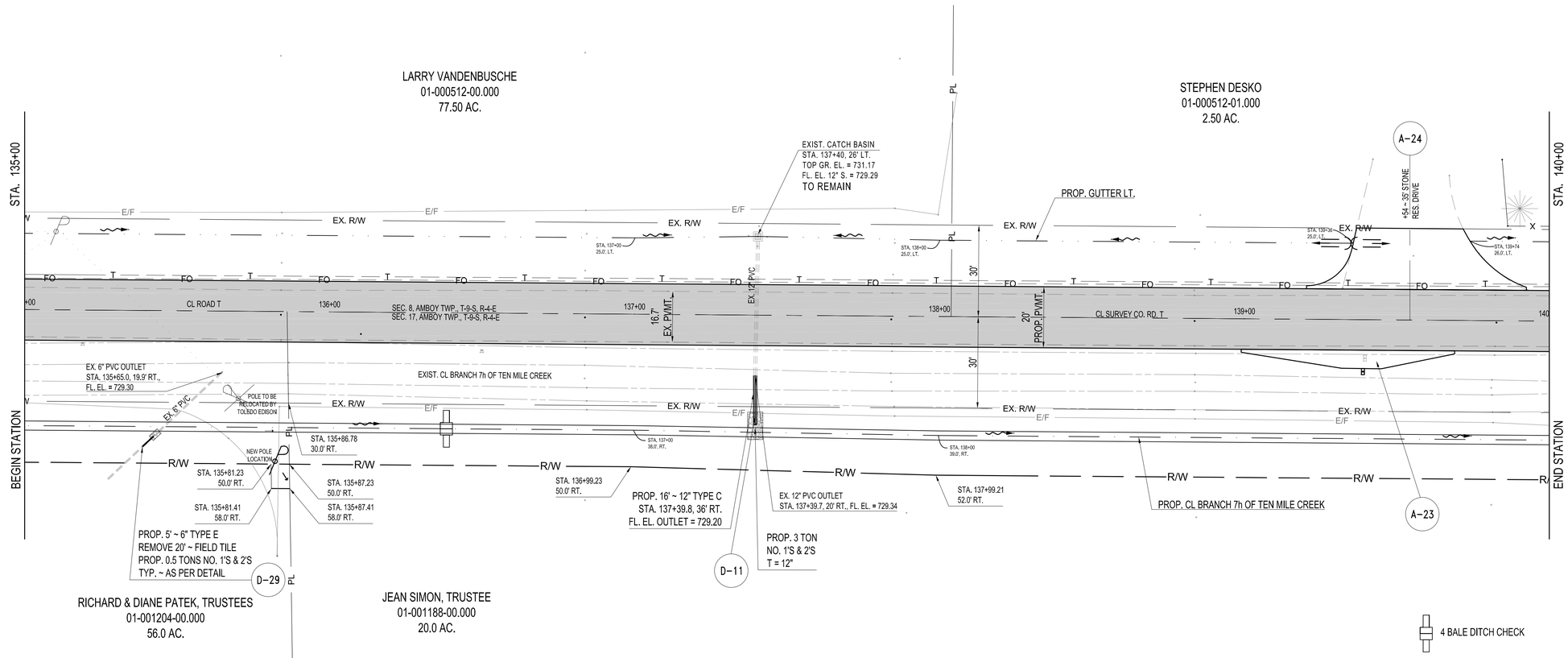

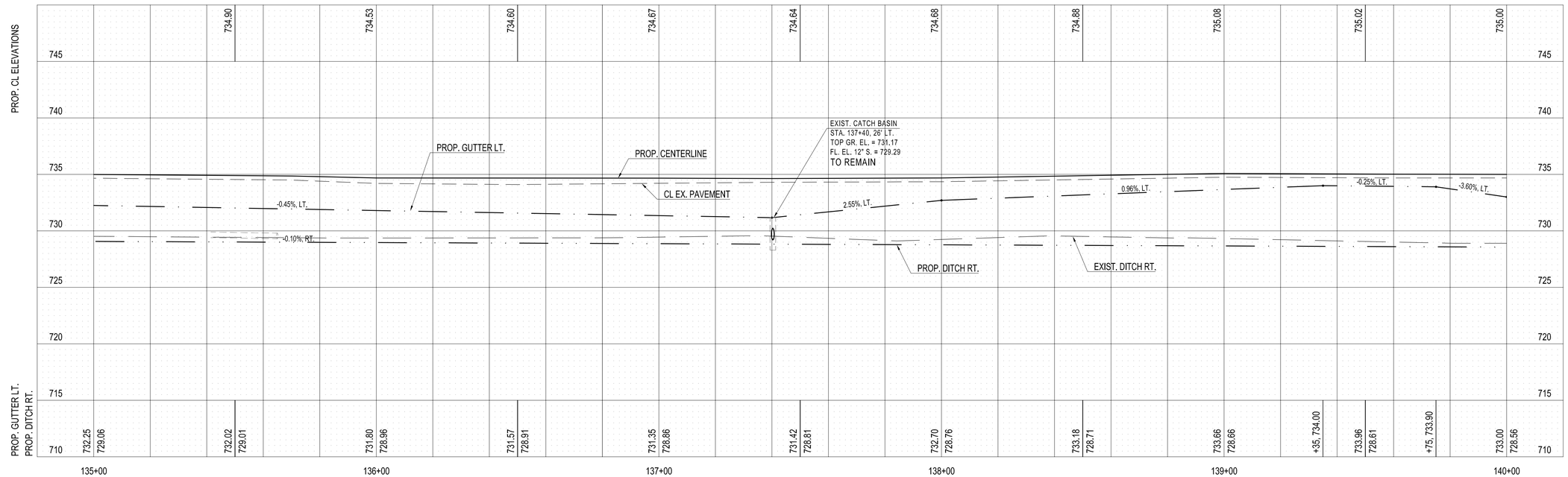

4 BALE DITCH CHECK

N

HORIZONTAL SCALE IN FEET
0 10 20
10

Drawn By: HKD/BDL
Checked By: FTO
Date: 2/13/2012
Revised: N/A
Revised: N/A

FULTON COUNTY ROAD T (CO. RD. 7 TO S.R. 64)
PLAN AND PROFILE ~ STA. 135+00 TO STA. 140+00

FULTON COUNTY ENGINEERING DEPT.
FRANK T. CONWELLER, P.E., P.S. - COUNTY ENGINEER
ROD CREAGER, P.E., P.S. - CHIEF DEPUTY ENGINEER
9120 Co Rd 14, WAUSEON, OHIO. 43567
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STEPHEN DESKO
01-000512-01.000
2.50 AC.

BENCHMARK #5
DH NAIL W/TAG
IN S. FACE PP
STA. 142+25.34, 23.74' LT.
ELEVATION = 733.96

LARRY VANDENBUSCHE
01-000512-00.000
77.50 AC.

STA. 140+00

STA. 145+00

BEGIN STATION

END STATION

EX. R/W

EXISTING 8" CPP
STA. 141+67.6, 23.6' LT., FL. EL. = 731.51
STA. 142+28.3, 22.3' LT., FL. EL. = 731.36

EX. 8" CPP

+97 - 27.5' STONE RES. DRIVE

A-27

BM#5

PROP. GUTTER LT.

E/F

PROP. 22.5° BEND, FL. EL. = 728.47
STA. 140+75.19, 19.87' RT.

PROP. 22.5° BEND, FL. EL. = 728.15
STA. 143+35.19, 18.87' RT.

FO T

141+00

SEC. 8, AMBOY TWP., T-9-S, R-4-E
SEC. 17, AMBOY TWP., T-9-S, R-4-E

142+00

143+00

16.6'
EX. PVMT

30'

CL SURVEY CO. RD. T

144+00

20'
PROP. PVMT

PROP. 50' ~ 30" TYPE C @-0.12%

EX. 36" RCP

EX. 30" RGP

PROP. 260' ~ 30" TYPE C @-0.12%

PROP. 50' ~ 30" TYPE C @-0.12%

EXIST. CL BRANCH 7h OF TEN MILE CREEK

STA. 140+69
26.0' RT.

STA. 140+35
26.0' RT.

+52 - 10' GRASS FIELD DRIVE

EX. R/W
PROP. 6' ~ 10"
TYPE C@5.00%

PROP. 3' ~ 8"
TYPE C, CAPPED

+83 - 11' STONE RES. DRIVE

EXISTING 30" RCP
STA. 141+72.3, 18.9' RT., FL. EL. = 728.47
STA. 141+93.6, 18.6' RT., FL. EL. = 728.45
REMOVE 21' ~ 30"
REMOVE (2) CONCRETE HEADWALLS

STA. 143+37
26.0' RT.

STA. 143+85
26.0' RT.

STA. 143+35.48
30.0' RT.

STA. 145+00
26.0' RT.

A-25

A-26

D-12

STA. 140+72.62
30.0' RT.

EXISTING 36" RCP
STA. 140+40.6, 20.9' RT., FL. EL. = 728.89
STA. 140+66.0, 20.2' RT., FL. EL. = 728.88
REMOVE 25' ~ 36"
REMOVE (2) BRICK HEADWALLS

PROP. 2-2B CATCH BASIN
STA. 141+40, 26' RT.
TOP GR. EL. = 733.10
FL. EL. 10" N. = 729.90
FL. EL. 8" S. = 730.00
FL. EL. 10"@ OUTLET = 729.60

STA. 143+70.12
50.0' RT.

STA. 144+02.66
30.0' RT.

PROP. CL BRANCH 7h OF TEN MILE CREEK

STA. 144+03.12
50.0' RT.

STA. 144+98.12
50.0' RT.

PROP. 5' ~ 30" TYPE C @-0.20%
STA. 143+86.38, 38' RT.,
FL. EL. OUTLET = 728.08

STA. 140+39.21
52.0' RT.

PROP. 22.5° BEND, FL. EL. = 728.53
STA. 140+29, 39' RT.

PROP. 16 TON
TYPE D ROCK PROTECTION
T = 18"

PROP. 5' ~ 30" TYPE C @-0.20%
STA. 140+24, 39' RT.,
FL. EL. INLET = 728.54

MALCOLM & JEAN SIMON, TRUSTEES
01-001188-00.000
20.0 AC.

POND

PROP. 22.5° BEND, FL. EL. = 728.09
STA. 143+81.38, 38' RT.

PROP. 16 TON
TYPE D ROCK PROTECTION
T = 18"

LINDA BARNABY
01-001160-00.000
47.80 AC.

4 BALE DITCH CHECK

PROP. CL ELEVATIONS

PROP. GUTTER LT.
PROP. DITCH RT.

	140+00			141+00			142+00			143+00			144+00			145+00
	735.03			734.94			734.65		734.37		734.14	733.94		733.81	733.75		733.81		733.80
745																			
740																			
735																			
730																			
725																			
720																			
715																			
710	733.00	728.56	+31, 733.60	732.70	733.67	+60, 733.70	732.40	733.40	+40, 733.10	731.75	733.16	+76, 733.30	+90, 733.50	731.43	733.30	731.31	733.15	731.18	733.00	731.07	732.38	+80, 732.00	730.95	728.07	730.83	728.01	730.71	727.96

PROP. 50'~30" TYPE C @-0.12%, RT.
PROP. 260'~30" TYPE C @-0.12%, RT.
EX. 8" CPP, LT.
PROP. CENTERLINE
CL EX. PAVEMENT
PROP. GUTTER LT.
0.34%, RT.
-0.60%, LT.
-0.75%, RT.
-1.32%, LT.
0.56%, RT.
1.43%, RT.
-2.09%, RT.
-0.30%, RT.
-1.25%, RT.
-0.24%, LT.
-0.19%, RT.
-0.17%, RT.
EX. 36" RCP, RT.
REMOVE 25' ~ 36"
EX. 30" RCP, RT.
REMOVE 21' ~ 30"
PROP. DITCH RT.
PROP. 5'~30" TYPE C @-0.20%, RT.
FL. EL. INLET = 728.54
PROP. 2-2B CATCH BASIN
STA. 141+40, 26' RT.
TOP GR. EL. = 733.10
FL. EL. 10" N. = 729.90
FL. EL. 8" S. = 730.00
FL. EL. 10"@ OUTLET = 729.60
PROP. 50'~30" TYPE C @-0.12%, RT.
PROP. 5'~30" TYPE C @-0.20%, RT.
FL. EL. OUTLET = 728.08
EXIST. DITCH RT.

FULTON COUNTY ENGINEERING DEPT.
FRANK T. ONWELLER, P.E., P.S. - COUNTY ENGINEER
ROD CREAGER, P.E., P.S. - CHIEF DEPUTY ENGINEER
9120 Co Rd 14, WAUSEON, OHIO. 43567
PHONE (419)335-3816 FAX (419)335-1091

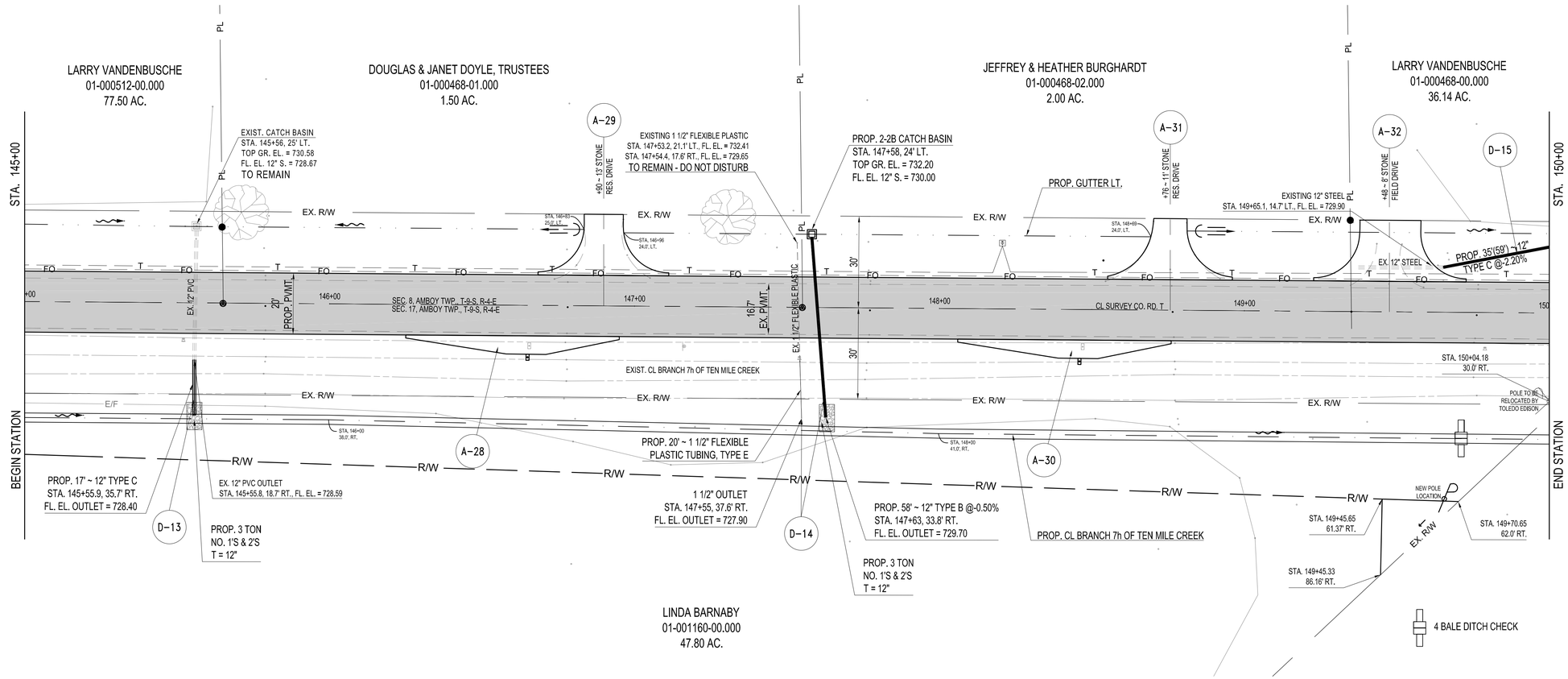
Drawn By: HKD/BDL
Checked By: FTO
Date: 2/13/2012
Revised: N/A
Revised: N/A

HORIZONTAL SCALE IN FEET
20 10 0 10

FULTON COUNTY ROAD T (CO. RD. 7 TO S.R. 64)
PLAN AND PROFILE ~ STA. 140+00 TO STA. 145+00

19
97

File: G:\Projects\Roads\County\Road T (7 to SR64)\dwgs\RCp09001.dwg - Feb 13, 2012 - 3:44pm - Fulton County Engineer's Office



HORIZONTAL SCALE IN FEET

Drawn By: HKD/BDL
Checked By: FTO
Date: 2/13/2012
Revised: N/A
Revised: N/A

FULTON COUNTY ROAD T (CO. RD. 7 TO S.R. 64)
PLAN AND PROFILE ~ STA. 145+00 TO STA. 150+00

FULTON COUNTY ENGINEERING DEPT.
FRANK T. ONWEILER, P.E., P.S. - COUNTY ENGINEER
ROD CREAGER, P.E., P.S. - CHIEF DEPUTY ENGINEER
9120 Co Rd 14, WAUSEON, OHIO, 43567
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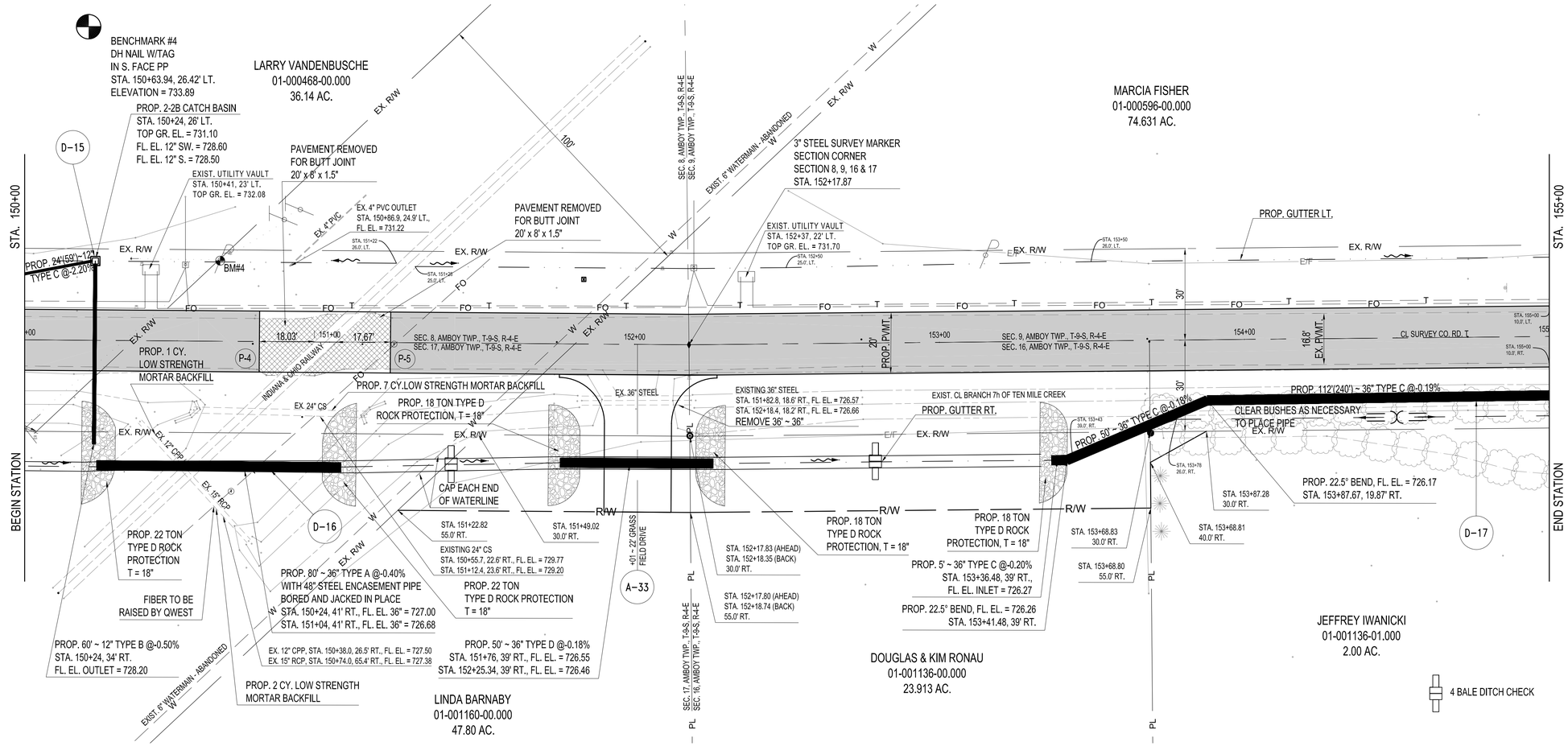
File: G:\Projects\Roads\County\Road T (7 to SR64)\dwgs\RCp10001.dwg - Feb 13, 2012 - 3:46pm - Fulton County Engineer's Office



FULTON COUNTY ROAD T (CO. RD. 7 TO S.R. 64)
PLAN AND PROFILE ~ STA. 150+00 TO STA. 155+00

HORIZONTAL SCALE IN FEET

Drawn By: HKD/BDL | Checked By: FTO
Date: 2/13/2012 | Revised: N/A | N/A

FULTON COUNTY ENGINEERING DEPT.
FRANK T. OMWILLER, P.E., P.S., COUNTY ENGINEER
ROD CREAGER, P.E., P.S., CHIEF DEPUTY ENGINEER
9120 Co Rd 14, WAUSEON, OHIO 43567
PHONE (419)335-3816 FAX (419)335-1091

File: G:\Projects\Roads\County\Road T (7 to SR64)\dwgs\RCp11001.dwg – Feb 13, 2012 – 2:39pm – Fulton County Engineer's Office

BENCHMARK #3
DH NAIL W/TAG
IN N. FACE PP
STA. 155+66.57, 28.72' LT.
ELEVATION = 732.47

MARCIA FISHER
01-000596-00.000
74.631 AC.

STEVE FEEBACK
01-000596-01.000
1.139 AC.

MARCIA FISHER
01-000596-00.000
74.631 AC.

STA. 155+00

STA. 160+00

BEGIN STATION

END STATION

PROP. 2-2B CATCH BASIN
STA. 155+50, 26' RT.
TOP GR. EL. = 730.40
FL. EL. 10" N. = 728.00
FL. EL. 8" S. = 728.10
FL. EL. 10"@ OUTLET = 727.80

EXIST. CATCH BASIN
STA. 156+12, 28' LT.
TOP GR. EL. = 728.94
FL. EL. 12" S. = 727.32
TO REMAIN

PROP. GUTTER LT.

EXIST. CATCH BASIN
STA. 159+06, 16' LT.
TOP GR. EL. = 729.58
FL. EL. 6" N. = 725.28
FL. EL. 8" E. = 725.23
FL. EL. 5" W. = 725.36
TO REMAIN

A-36

A-38

+37 - 16' STONE
RES. DRIVE

+20 - 35' ASPHALT
RES. DRIVE

EX. 6" CLAY

EX. 5" CLAY

EX. 8" CLAY

EX. R/W

E/F

BM#3

STA. 155+75
26.0', LT.

STA. 156+50
26.0', LT.

STA. 158+30
26.0', LT.

STA. 159+38
25.0', LT.

TIE EX. 12"
INTO PROP. 30"

EX. 12" PVC

EX. 12" PVC OUTLET
STA. 156+11.5, 16.9' RT., FL. EL. = 727.07

PL

T FO

STA. 155+00
10.0', LT.

STA. 155+00
10.0', RT.

156+00

STA. 157+00
9.0', LT.

STA. 157+00
11.0', RT.

157+00

158+00

159+00

160

30'

17.4'
EX. PVMT.

20'
PROP. PVMT.

SEC. 9, AMBOY TWP., T-9-S, R-4-E
SEC. 16, AMBOY TWP., T-9-S, R-4-E

CL SURVEY CO. RD. T

PROP. 9' ~ 8"
TYPE C @2.22%

PROP. 22.5° BEND, FL. EL. = 725.72
STA. 156+27.67, 18.69' RT.

PROP. 128'(240') ~ 36" TYPE C @-0.19%

EX. 21" RCP

EX. 24" CPP

PROP. 40'~36" TYPE C @-0.20%

EXIST. CL BRANCH 7h OF TEN MILE CREEK

POLE TO BE
RELOCATED BY
TOLEDO EDISON
NEW POLE
LOCATION

STA. 155+84
26.0', RT.

STA. 155+95
28.0', RT.

STA. 156+36
28.0', RT.

PROP. 7' ~ 10"
TYPE C@2.86%

PROP. 3' ~ 8"
TYPE C, CAPPED

+89 - 11' STONE
RES. DRIVE

+41 - 29' GRASS
FIELD DRIVE

D-17

A-34

A-35

A-37

R/W

PROP. 5' ~ 36" TYPE C @-0.20%
STA. 156+69.63, 34' RT.,
FL. EL. OUTLET = 725.63

PROP. 16 TON
TYPE D ROCK PROTECTION, T = 18"

PROP. 22.5° BEND, FL. EL. = 725.64
STA. 156+64.63, 34' RT.

EXISTING 24" CPP
STA. 156+21.4, 18.6' RT., FL. EL. = 726.18
STA. 156+58.0, 18.7' RT., FL. EL. = 726.10
REMOVE 36' ~ 24"
REMOVE (2) HEADWALLS

STA. 157+99.75
30.0' RT.

STA. 157+99.58
50.0' RT.

PROP. CL BRANCH 7h OF TEN MILE CREEK

EX. 21" RCP, STA. 155+79.0, 17.9' RT., FL. EL. = 726.65
EX. 18" CLAY, STA. 156+01.4, 19.4' RT., FL. EL. = 726.69
REMOVE 22' ~ 18"/21"
REMOVE (2) HEADWALLS

JEFFREY IWANICKI
01-001136-01.000
2.00 AC.

PROP. 15" INLINE DRAIN
STA. 156+10, 28' RT.
TOP GR. EL. = 729.20
FL. EL. 8" N. = 727.80
FL. EL. 8"@OUTLET = 727.60

STA. 156+65.58
50.0' RT.

STA. 156+30.94
30.0' RT.

STA. 156+18.83
30.0' RT.

DOUGLAS & KIM RONAU
01-001136-00.000
23.913 AC.

GEORGE & PATRICIA SCHUDEL
01-001072-00.000
35.00 AC.

4 BALE DITCH CHECK

PROP. CL ELEVATIONS

PROP. GUTTER LT.
PROP. DITCH RT.

	155+00				156+00				157+00				158+00				159+00				160+00	
	732.19		731.91		731.62		731.43		731.18		730.92		730.65		730.45		730.61		730.90	
745																						745
740																						740
735																						735
730																						730
725																						725
720																						720
715				+96, 730.50												+06, 729.58						715
710	729.93	730.90	729.67	730.40	+75, 730.50	+89, 730.80	729.40	729.40	+12, 728.94	+25, 729.90	+41, 730.00	729.14	729.90	+59, 729.80	729.40	726.15	729.51	726.05	729.62	725.96	+37, 729.70	729.68	725.87	729.59	725.78	+40, 729.50	729.37	725.69	728.70	725.60	710

PROP. 2-2B CATCH BASIN
STA. 155+50, 26' RT.
TOP GR. EL. = 730.40
FL. EL. 10" N. = 728.00
FL. EL. 8" S. = 728.10
FL. EL. 10"@ OUTLET = 727.80

EXIST. CATCH BASIN
STA. 156+12, 28' LT.
TOP GR. EL. = 728.94
FL. EL. 12" S. = 727.32
TO REMAIN

PROP. 40'~36" TYPE C @-0.20%, RT.

PROP. CENTERLINE

CL EX. PAVEMENT

PROP. GUTTER LT.

EXIST. CATCH BASIN
STA. 159+06, 16' LT.
TOP GR. EL. = 729.58
FL. EL. 6" N. = 725.28
FL. EL. 8" E. = 725.23
FL. EL. 5" W. = 725.36
TO REMAIN

-1.00% RT.
0.40% RT.
2.14% RT.
-1.29% RT.
4.67% RT.
0.63% RT.
-1.11% RT.
0.52% LT.
-0.53% LT.
0.22% LT.
-0.17% LT.
-0.24% LT.
-1.33% LT.
-0.16% RT.

PROP. 128'(240')~36" TYPE C @-0.19%, RT.

EX. 21" RCP/18" CLAY, RT.
REMOVE 22' ~ 18"/21"

PROP. 15" INLINE DRAIN
STA. 156+10, 28' RT.
TOP GR. EL. = 729.20
FL. EL. 8" N. = 727.80
FL. EL. 8"@OUTLET = 727.60

EX. 24" CPP, RT.
REMOVE 36' ~ 24"

PROP. 5'~36" TYPE C @-0.20%, RT.
FL. EL. OUTLET = 725.63

EXIST. DITCH RT.

PROP. DITCH RT.

PROP. CL ELEVATIONS

PROP. GUTTER LT.
PROP. DITCH RT.

	155+00				156+00				157+00				158+00				159+00				160+00	
	732.19		731.91		731.62		731.43		731.18		730.92		730.65		730.45		730.61		730.90	
745																						745
740																						740
735																						735
730																						730
725																						725
720																						720
715				+96, 730.50												+06, 729.58						715
710	729.93	730.90	729.67	730.40	+75, 730.50	+89, 730.80	729.40	729.40	+12, 728.94	+25, 729.90	+41, 730.00	729.14	729.90	+59, 729.80	729.40	726.15	729.51	726.05	729.62	725.96	+37, 729.70	729.68	725.87	729.59	725.78	+40, 729.50	729.37	725.69	728.70	725.60	710

155+00 156+00 157+00 158+00 159+00 160+00

HORIZONTAL SCALE IN FEET
0 10 20

Drawn By: HKD/BDL
Checked By: FTO
Date: 2/13/2012
Revised: N/A
Revised: N/A

FULTON COUNTY ROAD T (CO. RD. 7 TO S.R. 64)
PLAN AND PROFILE ~ STA. 155+00 TO STA. 160+00

FULTON COUNTY ENGINEERING DEPT.
FRANK T. ONWELLER, P.E., P.S. - COUNTY ENGINEER
ROD CREAGER, P.E., P.S. - CHIEF DEPUTY ENGINEER
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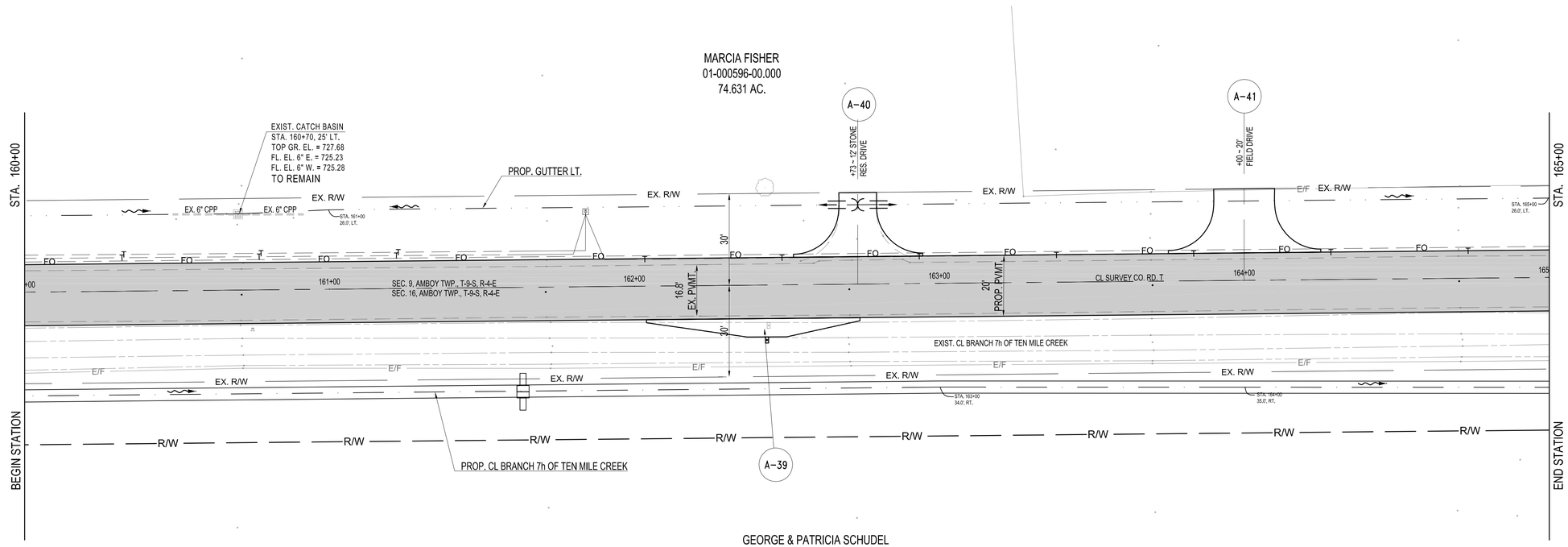
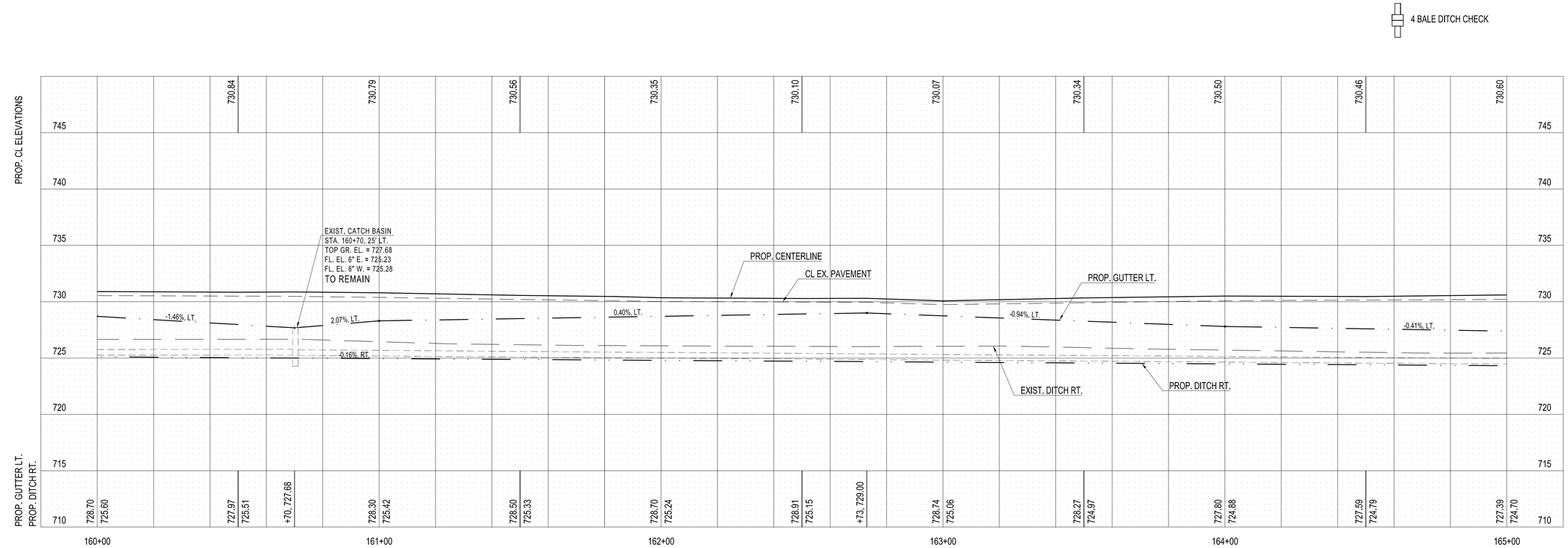
File: G:\Projects\Roads\County\Road T (7 to SR64)\dwgs\RCp12001.dwg - Feb 14, 2012 - 9:11am - Fulton County Engineer's Office





HORIZONTAL SCALE IN FEET

Drawn By: HKD/BDL
Checked By: FTO
Date: 2/13/2012
Revised: N/A N/A

FULTON COUNTY ROAD T (CO. RD. 7 TO S.R. 64)
PLAN AND PROFILE ~ STA. 160+00 TO STA. 165+00

FULTON COUNTY ENGINEERING DEPT.
FRANK T. OMWELLER, P.E., P.S., COUNTY ENGINEER
ROD CREAGER, P.E., P.S., CHIEF DEPUTY ENGINEER
9120 Co Rd 14, WAUSEON, OHIO 43567
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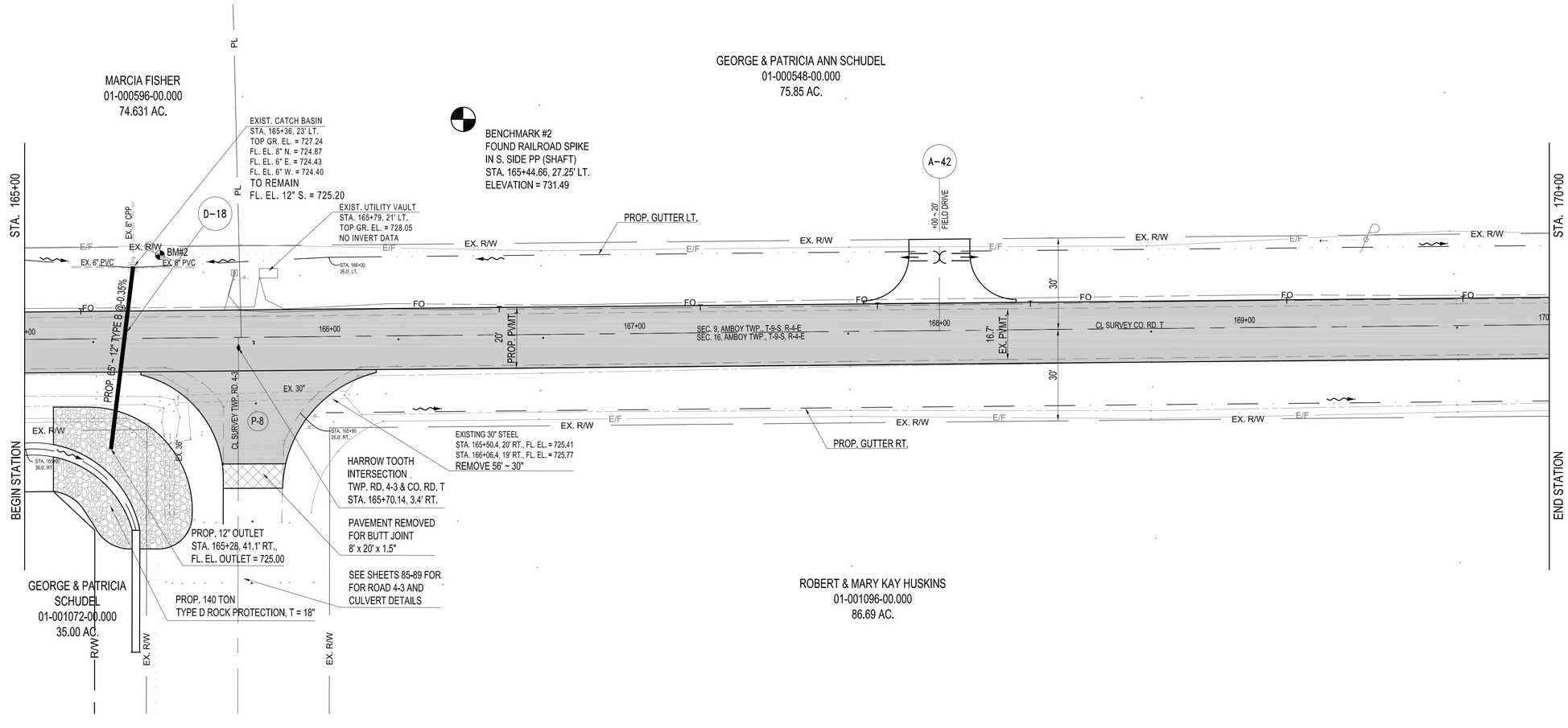
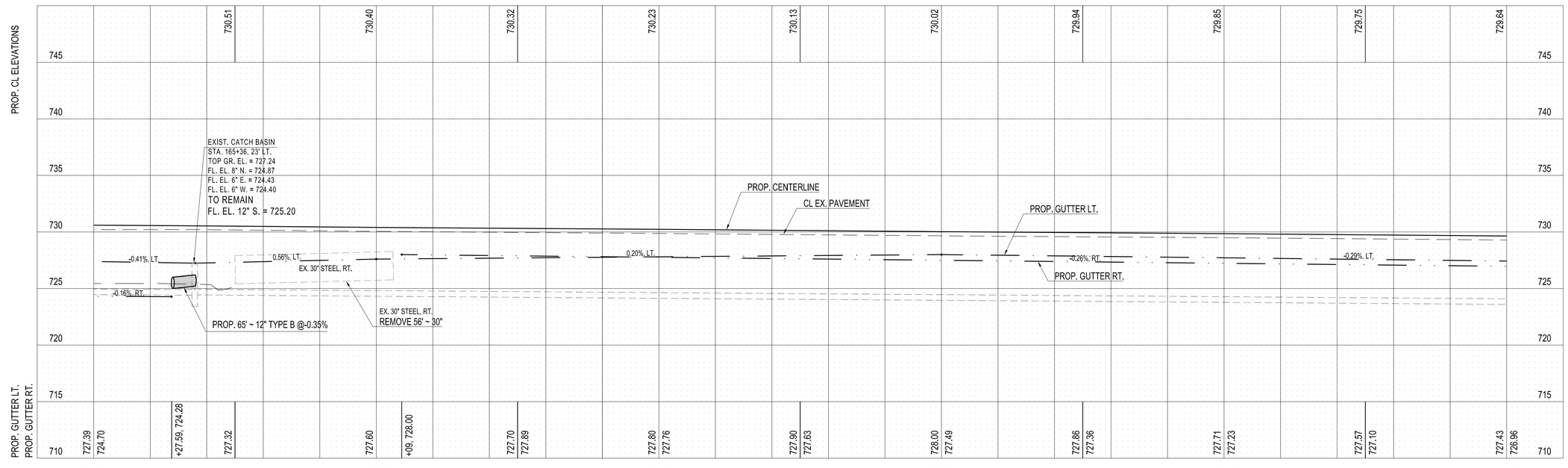
File: G:\Projects\Roads\County\Road T (7 to SR64)\dwgs\RCp13001.dwg - Feb 14, 2012 - 9:13am - Fulton County Engineer's Office





FULTON COUNTY ROAD T (CO. RD. 7 TO S.R. 64)
PLAN AND PROFILE ~ STA. 165+00 TO STA. 170+00

HORIZONTAL SCALE IN FEET

Drawn By: HKD/BDL | Checked By: FTO
Date: 2/13/2012 | Revised: N/A | N/A

FULTON COUNTY ENGINEERING DEPT.
FRANK T. OMWILLER, P.E., P.S., COUNTY ENGINEER
ROD CREAGER, P.E., P.S., CHIEF DEPUTY ENGINEER
9120 Co Rd 14, WAUSEON, OHIO. 43567
PHONE (419)335-3816 FAX (419)335-1091

File: G:\Projects\Roads\County\Road T (7 to SR64)\dwgs\RCp14001.dwg - Feb 10, 2012 - 10:47am - Fulton County Engineer's Office

GEORGE & PATRICIA ANN SCHUDEL
01-000548-00.000
75.85 AC.

BENCHMARK #7
DH NAIL W/TAG
IN S. FACE PP
STA. 171+85.39, 28.82' LT.
ELEVATION = 729.69

EXIST. CATCH BASIN
STA. 171+98.19, 26.09' LT.
TOP GR. EL. = 726.26
FL. EL. 6" N. = 723.32
FL. EL. 6" E. = 723.16
FL. EL. 6" W. = 723.24
TO REMAIN
FL. EL. 10" SE. = 723.16

STA. 172+97.68, 16' LT.
FL. EL. = 722.87

STA. 174+57.68, 16' LT.
FL. EL. = 722.41

D-19

A-44

A-43

BEGIN STATION

END STATION

STA. 170+00

STA. 175+00

PROP. GUTTER LT.

PROP. GUTTER RT.

EX. R/W

E/F

FO

T

BM#7

EX. 6" CPP

CAP EXIST. 6" @ STA. 172+03

PROP. 100' ~ 10" TYPE C @-0.29%

PROP. 160' ~ 10" TYPE C @-0.29%

PROP. 42.8'(260')~10" TYPE C @-0.29%

55' - 15' STONE RES. DRIVE

30'

16.6' EX. PVMT.

28' PROP. PVMT.

171+00

172+00

173+00

174+00

SEC. 9, AMBOY TWP., T-9-S, R-4-E
SEC. 16, AMBOY TWP., T-9-S, R-4-E

CL SURVEY CO. RD. T

ROBERT & MARY KAY HUSKINS
01-001096-00.000
86.69 AC.

PROP. CL ELEVATIONS

PROP. GUTTER LT.
PROP. GUTTER RT.

729.57 729.50 729.46 729.39 729.28 729.16 729.10 729.07 729.03 729.00

740 735 730 725 720 715 710 705

727.43 726.96 | 727.29 726.83 | 727.14 726.70 | 727.00 726.60 | +85, 726.90 | 726.29 726.49 | 726.99 726.39 | 727.70 726.29 | 727.80 726.19 | +47, 727.80 | +67, 727.80 | 727.65 726.08 | 727.43 725.98 | 727.20 725.88

170+00 171+00 172+00 173+00 174+00 175+00

EXIST. CATCH BASIN
STA. 171+98.19, 26.09' LT.
TOP GR. EL. = 726.26
FL. EL. 6" N. = 723.32
FL. EL. 6" E. = 723.16
FL. EL. 6" W. = 723.24
TO REMAIN
FL. EL. 10" SE. = 723.16

PROP. GUTTER LT.

PROP. GUTTER RT.

PROP. CENTERLINE

CL EX. PAVEMENT

-0.26% RT.

-0.29% LT.

-4.92% LT.

1.41% LT.

0.21% LT.

-0.21% RT.

-0.45% LT.

PROP.100'~10" TYPE C @-0.29% LT.

PROP. 160'~10" TYPE C @-0.29% LT.

PROP. 42.8'(260')~10" TYPE C @-0.29% LT.

HORIZONTAL SCALE IN FEET
10 0 10 20

Drawn By: HKD/BDL
Checked By: FTO
Date: 2/13/2012
Revised: N/A
Revised: N/A

FULTON COUNTY ROAD T (CO. RD. 7 TO S.R. 64)
PLAN AND PROFILE ~ STA. 170+00 TO STA. 175+00

FULTON COUNTY ENGINEERING DEPT.
FRANK T. OMWILLER, P.E., P.S. - COUNTY ENGINEER
ROD CREAGER, P.E., P.S. - CHIEF DEPUTY ENGINEER
9120 Co Rd 14, WAUSEON, OHIO 43567
PHONE (419)335-3816 FAX (419)335-1091

File: G:\Projects\Roads\County\Road T (7 to SR64)\dwgs\RCp15001.dwg - Feb 10, 2012 - 10:49am - Fulton County Engineer's Office

GEORGE & PATRICIA ANN SCHUDEL
01-000548-00.000
75.85 AC.

BENCHMARK #8
DH NAIL W/TAG
IN S. FACE PP
STA. 177+34.50, 28.96' LT.
ELEVATION = 728.41

SHEILA M. JENNEWINE
01-000592-03.000
49.572 AC.

STA. 175+00

BEGIN STATION

STA. 180+00

END STATION

D-19

PROP. GUTTER LT.

PROP. 11.25° BEND, FL. EL. = 721.65
STA. 177+17.65, 20' LT.

PROP. 40' ~ 10" TYPE C @-0.29%

PROP. 10" OUTLET, FL. EL. = 721.54
STA. 177+56.75, 28.4' LT.

PROP. 3 TON
NO. 1'S & 2'S, T = 12"

EX. 12" CS
STA. 178+54.0, 43.2' LT., FL. EL. = 722.20

PROP. 217'(260') ~ 10" TYPE C @-0.29%

BM#8

EX. R/W

EX. 8" CS
STA. 177+60.5, 28.9' LT., FL. EL. = 721.56

BR. 7 TEN MILE CREEK

FO

T

E/F

30'

55'

SEC. 9, AMBOY TWP., T-9-S, R-4-E
SEC. 16, AMBOY TWP., T-9-S, R-4-E

176+00

177+00

178+00

179+00

180

EX. 9'9" x 6'8" CS PIPE ARCH

PROP. P/VMT.

20'

EX. P/VMT.

16.8'

CL SURVEY CO. RD. T

STA. 176+03
26.0', RT.

STA. 176+00
25.0', RT.

STA. 176+50
26.5', RT.

STA. 177+35
27.0', RT.

STA. 179+00
27.5', RT.

STA. 180+00
25.5', RT.

EX. 9'9" x 6'8" CS PIPE ARCH CULVERT
STA. 177+19.6, 23.1' RT., FL. EL. = 720.50
STA. 177+58.9, 22.6' LT., FL. EL. = 720.09

+50 - 20'
FIELD DRIVE

A-45

RAILROAD SPIKE
QUARTER CORNER
SECTION 9 & 16
STA. 179+24.38

EAST-WEST 1/4 LINE SEC. 16, AMBOY TWP.

PROP. GUTTER RT.

ROBERT & MARY KAY HUSKINS
01-001096-00.000
86.69 AC.

2 BALE GUTTER CHECK

PROP. CL ELEVATIONS

PROP. GUTTER LT.
PROP. GUTTER RT.

740
735
730
725
720
715
710
705

728.99 728.99 729.30 729.61 729.77 729.33 728.85 728.58 728.47 728.37

727.20 725.88 726.80 725.78 726.40 725.67 726.26 725.57 +85, 725.50 726.11 +40, 726.00 726.10 726.30 +38, 726.40 726.45 +62, 726.50 726.31 726.05 725.80

PROP. CENTERLINE
CL EX. PAVEMENT
PROP. GUTTER LT.
PROP. GUTTER RT.

-0.80%, LT.
-0.21%, RT.
-0.29%, LT.
0.40%, RT.
0.26%, RT.
0.42%, RT.
-0.51%, RT.

EX. 8" CS, LT.
STA. 177+60.5, 28.9' LT.
FL. EL. = 721.56

PROP. 217'(260')~10" TYPE C @-0.29%, LT.

PROP. 40'~10" TYPE C @-0.29%, LT.
FL. EL. OUTLET = 721.54

EX. 12" CS, LT.
STA. 178+54, 43.2' LT.
FL. EL. = 722.20

175+00 176+00 177+00 178+00 179+00 180+00

HORIZONTAL SCALE IN FEET
20 10 0 10

Drawn By: HKD/BDL
Checked By: FTO
Date: 2/13/2012
Revised: N/A
Revised: N/A

FULTON COUNTY ROAD T (CO. RD. 7 TO S.R. 64)
PLAN AND PROFILE ~ STA. 175+00 TO STA. 180+00

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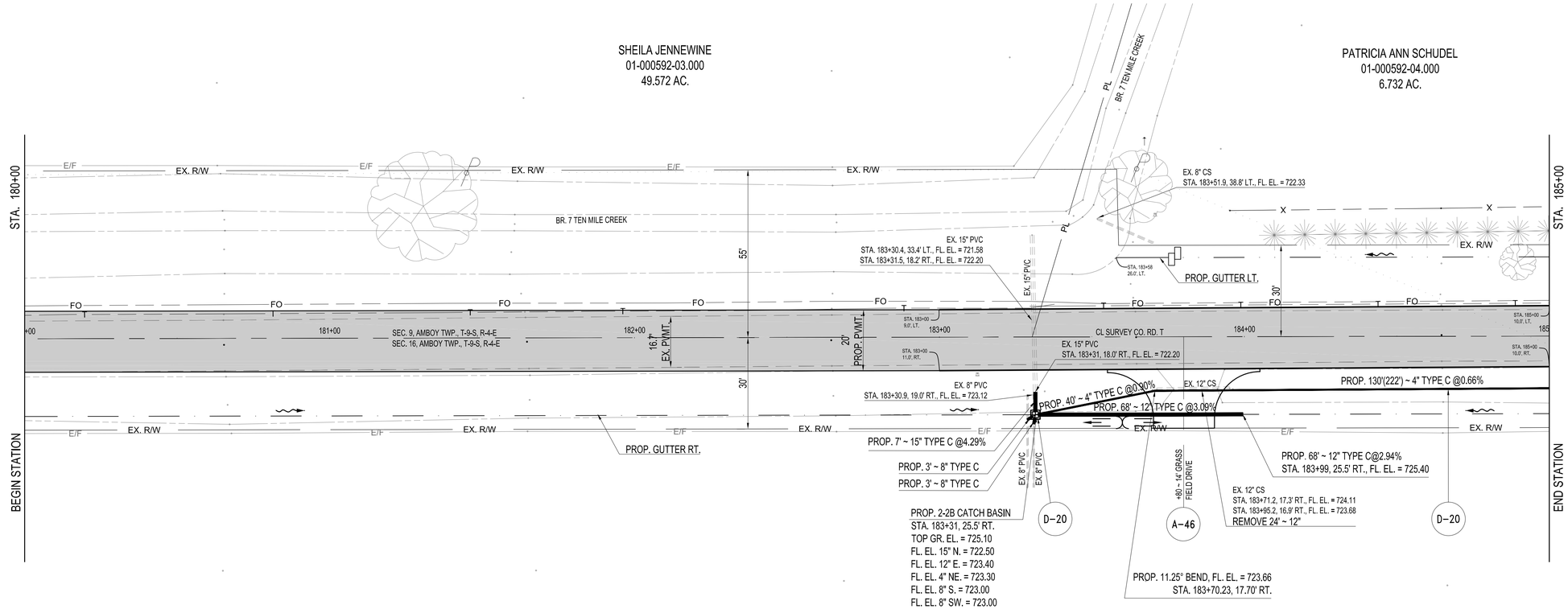
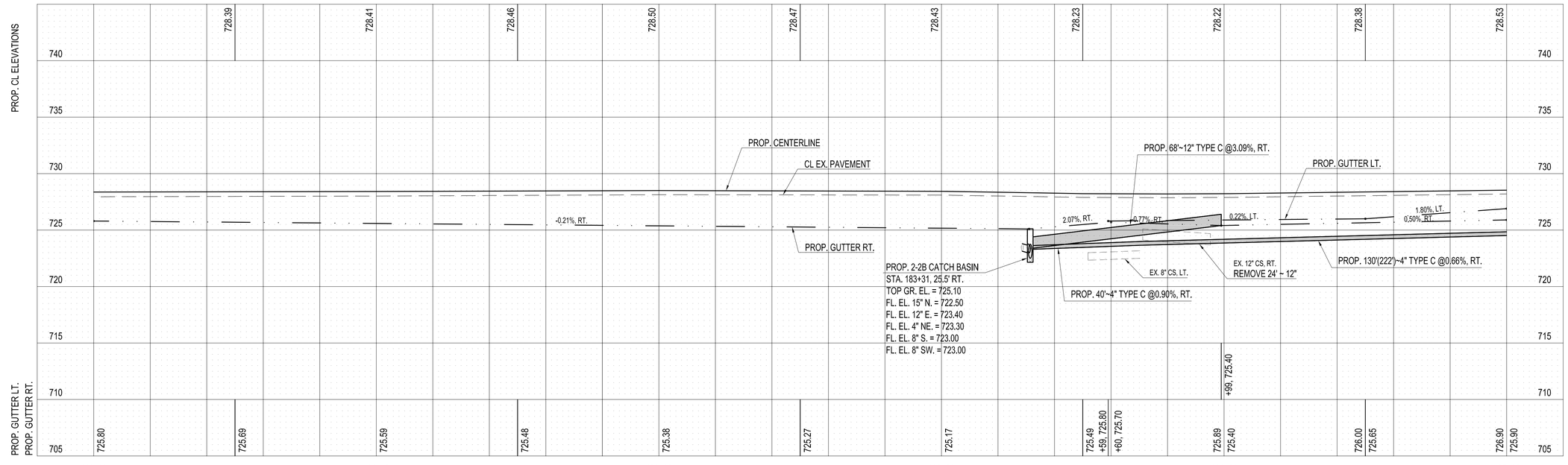
SHEILA JENNEWINE
01-000592-03.000
49.572 AC.

PATRICIA ANN SCHUDEL
01-000592-04.000
6.732 AC.



ROBERT & MARY KAY HUSKINS
01-001096-00.000
86.69 AC.

2 BALE GUTTER CHECK



HORIZONTAL SCALE IN FEET
10 0 10 20

Drawn By: HKD/BDL
Checked By: FTO
Date: 2/13/2012
Revised: N/A
Revised: N/A

FULTON COUNTY ROAD T (CO. RD. 7 TO S.R. 64)
PLAN AND PROFILE ~ STA. 180+00 TO STA. 185+00

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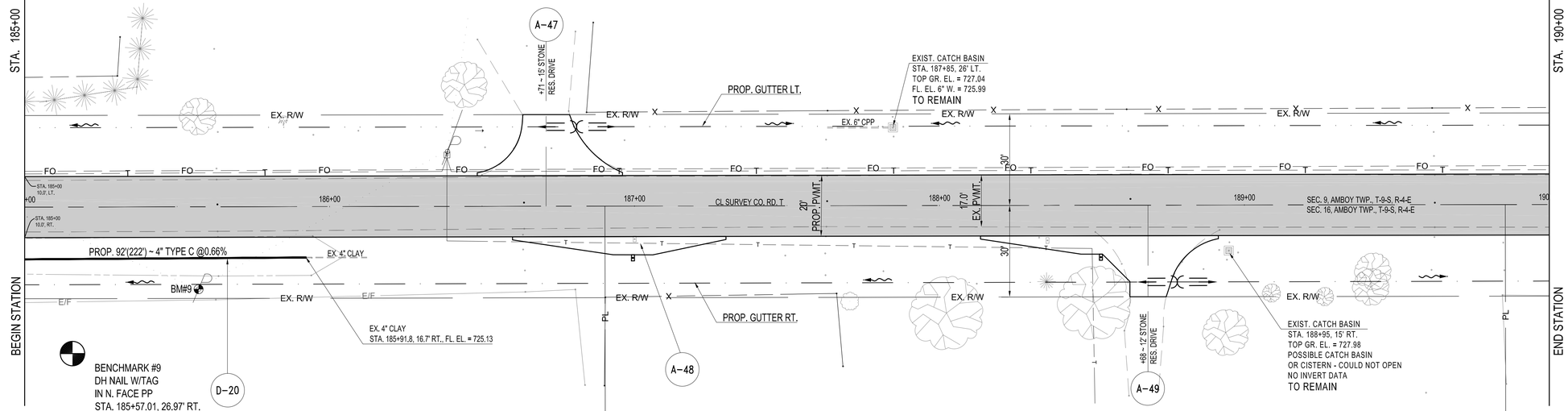
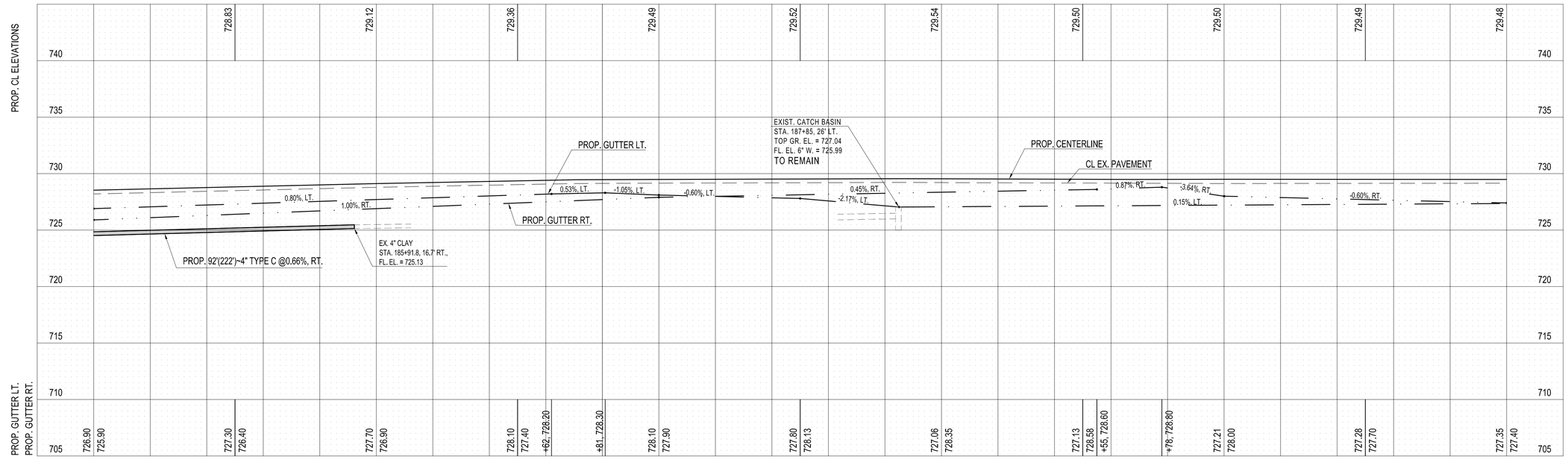
PATRICIA ANN SCHUDEL
01-000592-04.000
6.732 AC.



ROBERT & MARY KAY HUSKINS
01-001096-00.000
86.69 AC.

MELVIN & LORAINE BARGER
01-001096-01.000
1.81 AC.



HORIZONTAL SCALE IN FEET
0 10 20

Drawn By: HKD/BDL
Checked By: FTO
Date: 2/13/2012
Revised: N/A
Revised: N/A

FULTON COUNTY ROAD T (CO. RD. 7 TO S.R. 64)
PLAN AND PROFILE ~ STA. 185+00 TO STA. 190+00

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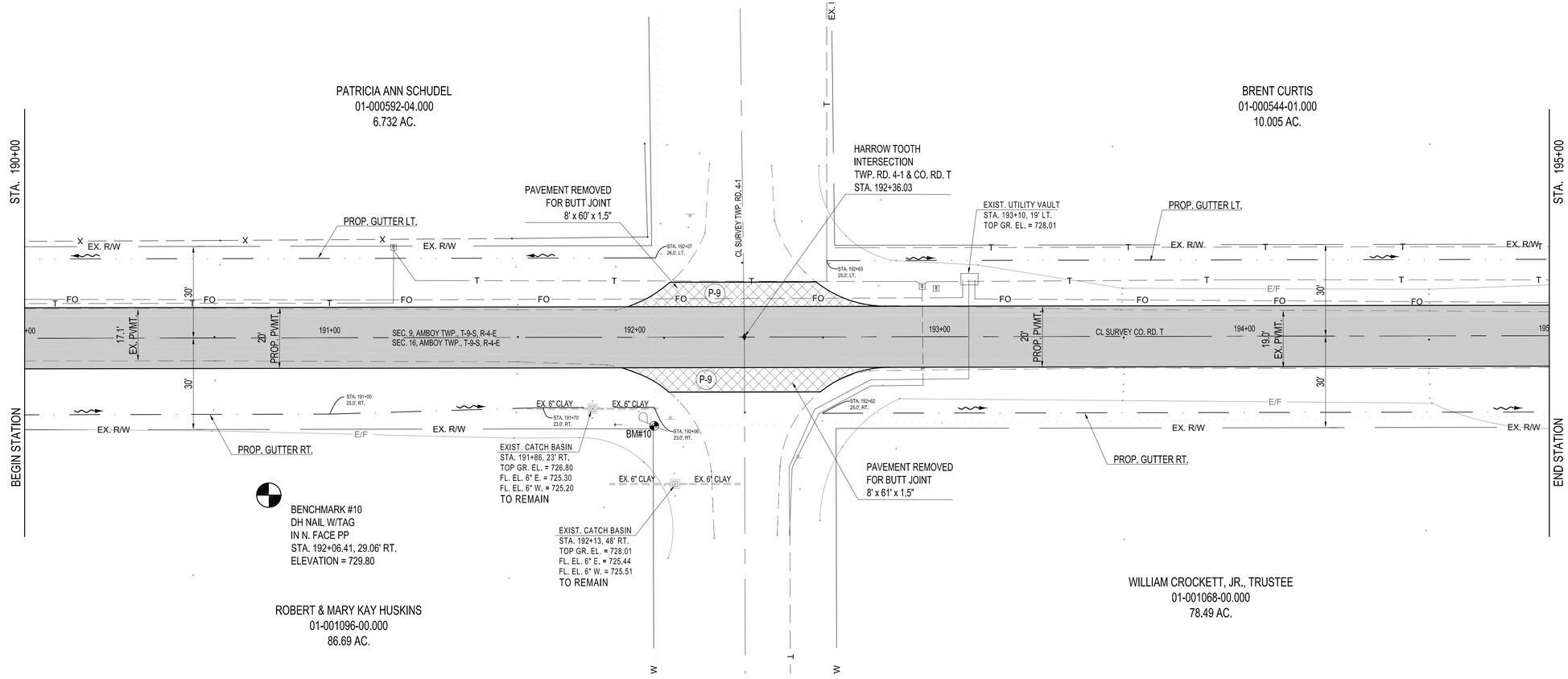

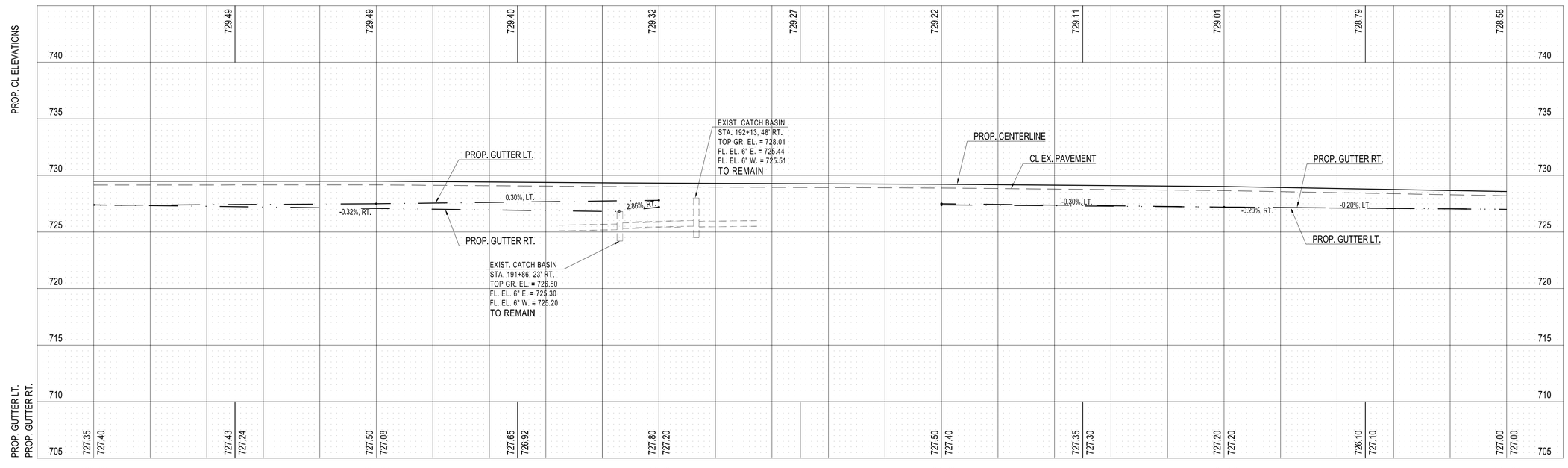

HORIZONTAL SCALE IN FEET

Drawn By: HKD/BDL
Checked By: FTO
Date: 2/13/2012
Revised: N/A
Revised: N/A

FULTON COUNTY ROAD T (CO. RD. 7 TO S.R. 64)
PLAN AND PROFILE ~ STA. 190+00 TO STA. 195+00

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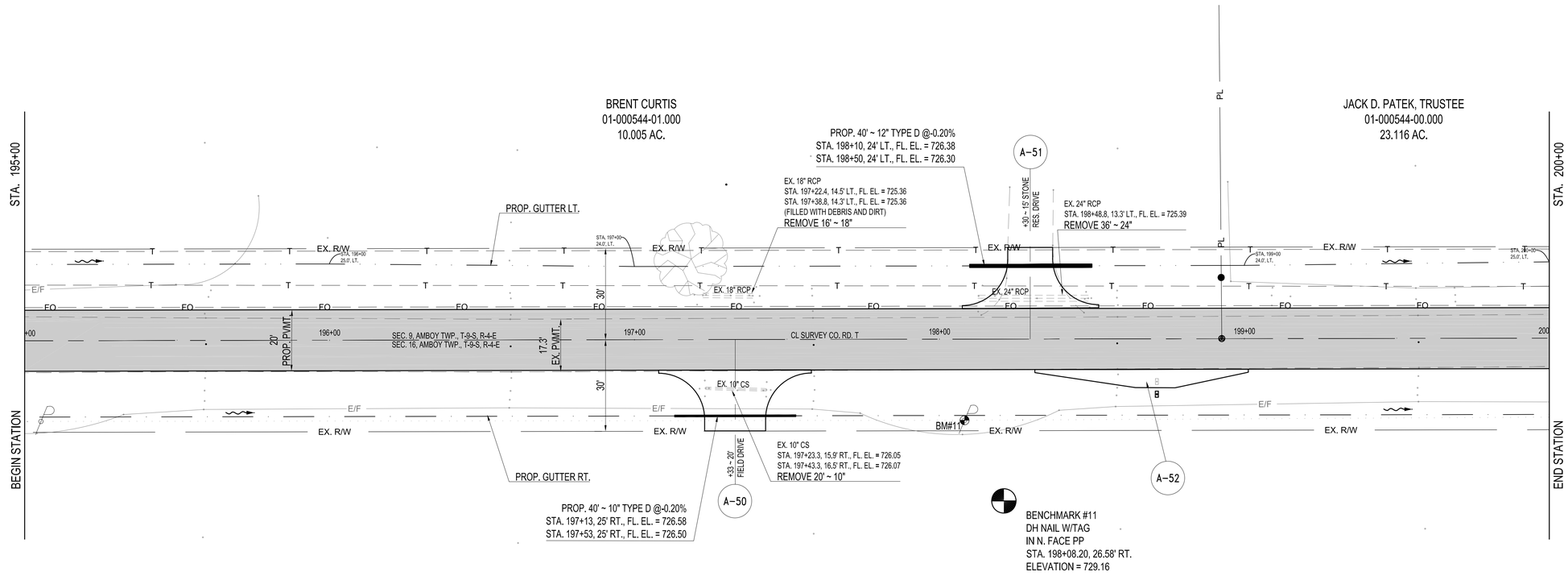

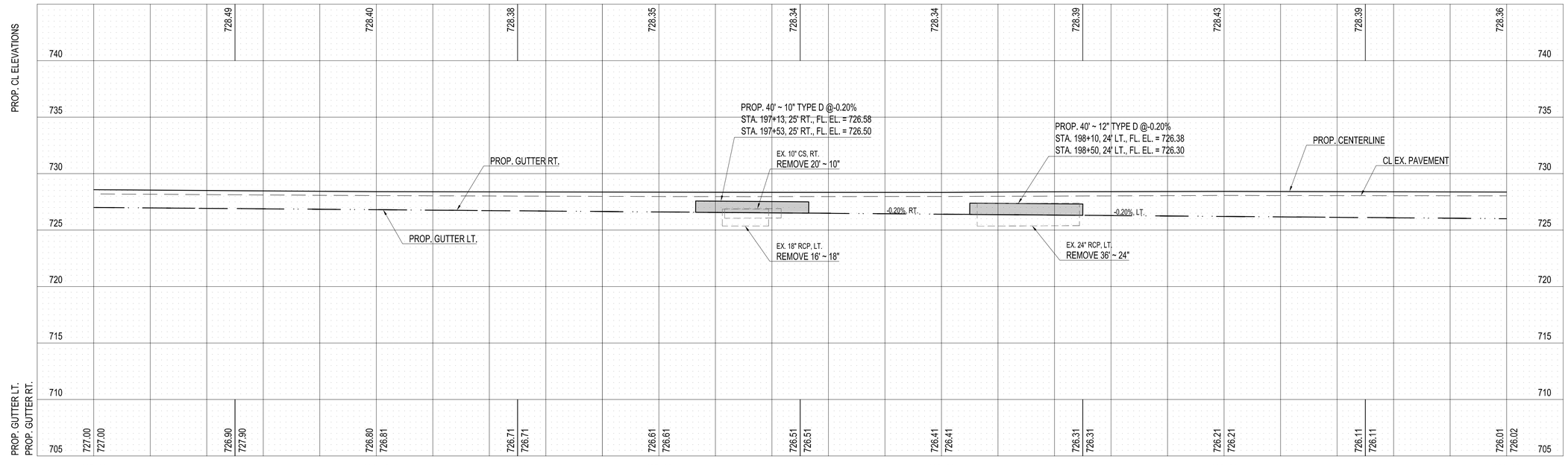

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HORIZONTAL SCALE IN FEET

Drawn By: HKD/BDL | Checked By: FTO

Date: 2/13/2012 | Revised: N/A | N/A

FULTON COUNTY ROAD T (CO. RD. 7 TO S.R. 64)
PLAN AND PROFILE ~ STA. 195+00 TO STA. 200+00

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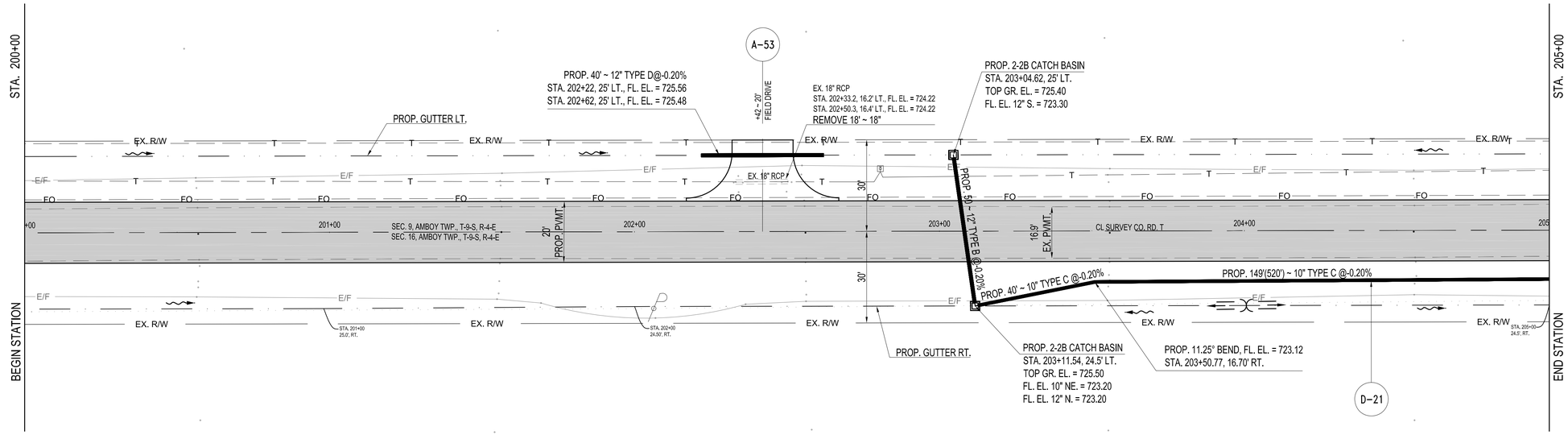
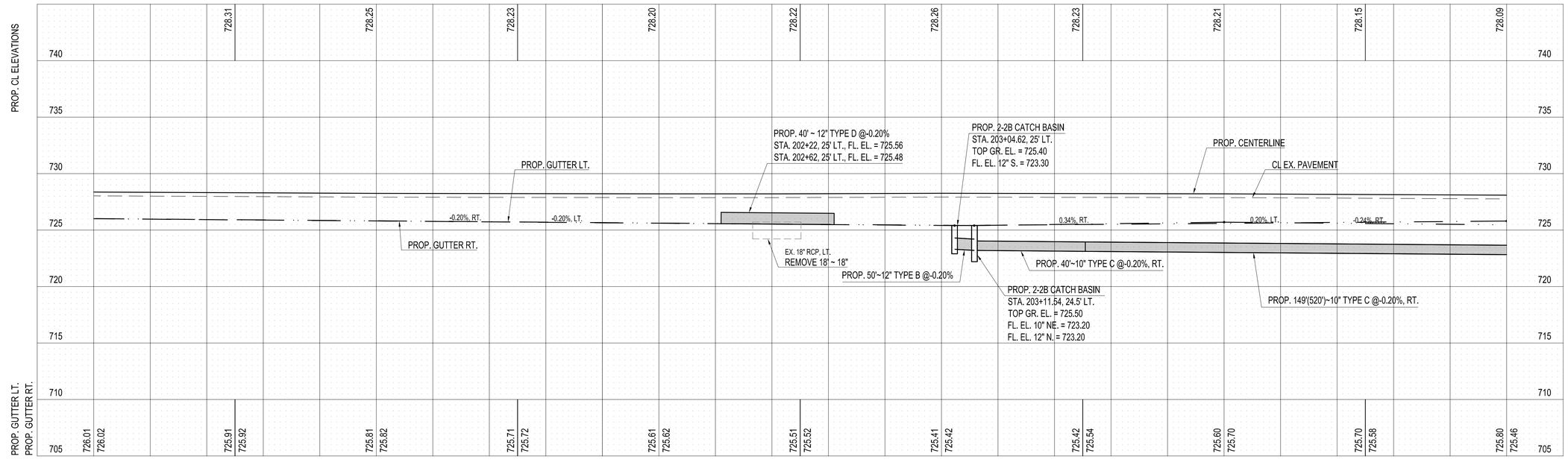
JACK D. PATEK, TRUSTEE
01-000544-00.000
23.116 AC.



WILLIAM CROCKETT, JR., TRUSTEE
01-001068-00.000
78.49 AC.



HORIZONTAL SCALE IN FEET

Drawn By: HKD/BDL | Checked By: FTO
Date: 2/13/2012 | Revised: N/A | N/A

FULTON COUNTY ROAD T (CO. RD. 7 TO S.R. 64)
PLAN AND PROFILE ~ STA. 200+00 TO STA. 205+00

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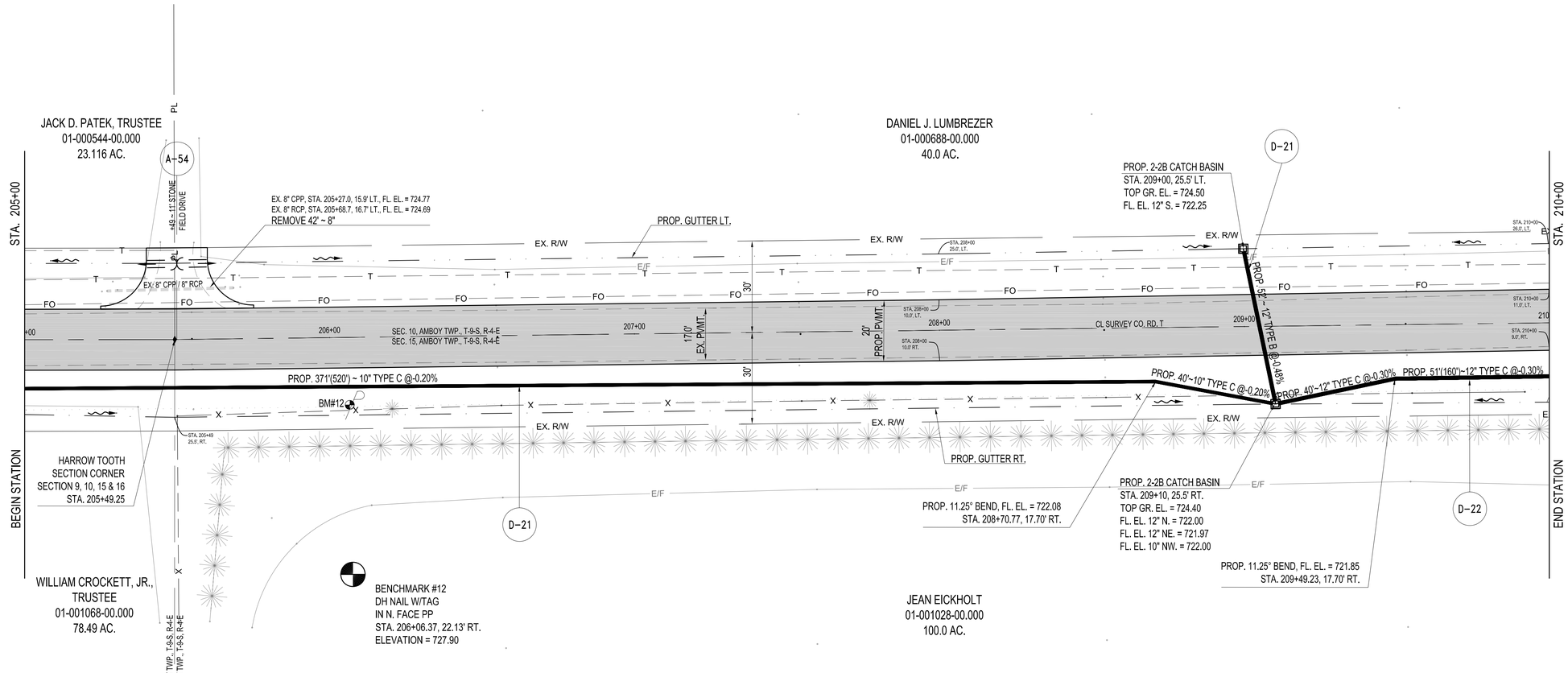

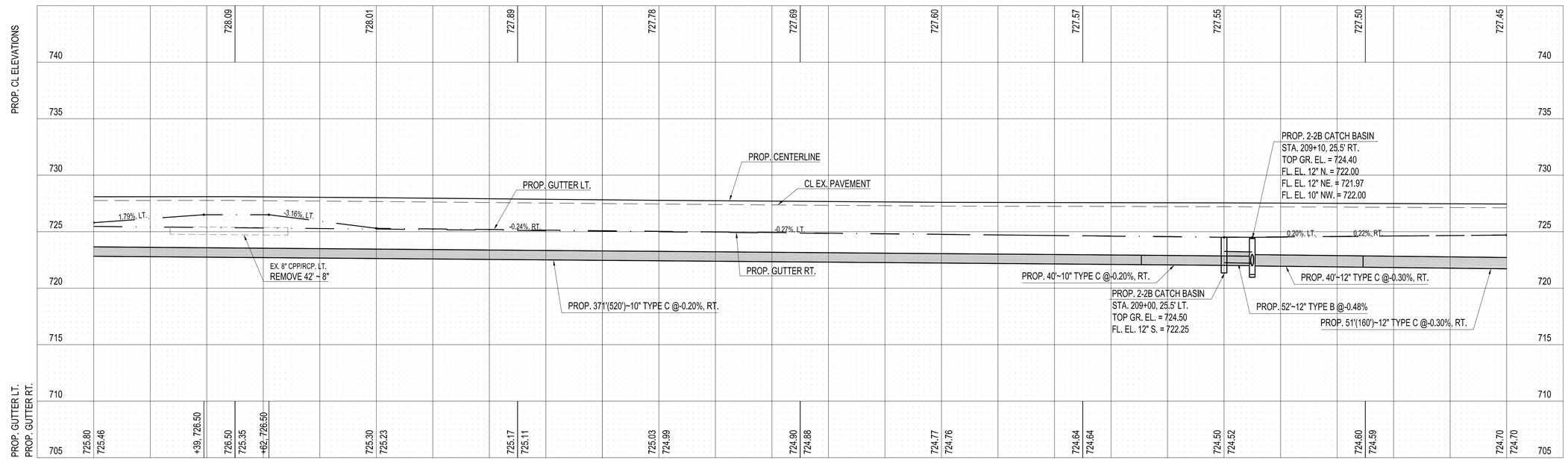

HORIZONTAL SCALE IN FEET
10 0 10 20

Drawn By: HKD/BDL
Checked By: FTO
Date: 2/13/2012
Revised: N/A
Revised: N/A

FULTON COUNTY ROAD T (CO. RD. 7 TO S.R. 64)
PLAN AND PROFILE ~ STA. 205+00 TO STA. 210+00

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DANIEL J. LUMBREZER
01-000688-00.000
40.0 AC.

JEAN EICKHOLT
01-000624-00.000
37.0 AC.

SHAWN SHULTERS
01-000624-01.000
3.00 AC.

STA. 210+00

STA. 215+00

BEGIN STATION

END STATION

DRAIN EX. 8" INTO BEDDING OF PROP. 12"

CAP EX. 8" @ STA. 211+18

PROP. 11.25° BEND, FL. EL. = 721.37
STA. 211+09.23, 17.20' RT.

COPPER LINE TO BE LOCATED 1' INSIDE R/W FROM STA. 211+37 TO STA. 270+10

COPPER LINE TO BE RETIRED IN PLACE

PROP. GUTTER LT.

EX. 10" RCP
STA. 213+81.0, 20.6' LT., FL. EL. = 723.40

PROP. 20' ~ 10" TYPE C
STA. 213+61.70, 26' LT.
FL. EL. = 723.90

A-57

A-58

+69 ~ 20' FIELD DRIVE

+44 ~ 12' STONE RES. DRIVE

EX. R/W

E/F

T

FO

PL

30'

17.0' EX. PVMT.

20' PROP. PVMT.

SEC. 10, AMBOY TWP., T-9-S, R-4-E
SEC. 15, AMBOY TWP., T-9-S, R-4-E

CL SURVEY CO. RD. T

211+00

212+00

213+00

214+00

REMOVE 13' ~ 6"

TO REMAIN

EX. 12" RCP

EX. 6" CLAY

EX. 8" CLAY

PROP. 109'(160') ~ 12" TYPE C @-0.30%

PROP. 40'~12" TYPE C @-0.30%

PROP. 45' ~ 6" TYPE C

PROP. 60'~12" TYPE C @-0.80%

PROP. 293'(540') ~ 12" TYPE C @-0.80%

BM#13

PROP. GUTTER RT.

REMOVE 292.29' ~ 8"

+74 ~ 13' STONE FIELD DRIVE

EX. 12" RCP
STA. 210+57.5, 13.8' RT., FL. EL. = 723.82
STA. 210+95.2, 14.1' RT., FL. EL. = 724.04
REMOVE 38' ~ 12"

EXIST. CATCH BASIN
STA. 211+18, 18' RT.
TOP GR. EL. = 725.44
FL. EL. 8" N. = 721.42
FL. EL. 6" W. = 721.69
FL. EL. WINDOW W. =
TO BE REMOVED

PROP. 2-2B CATCH BASIN
STA. 211+48.43, 25' RT.
TOP GR. EL. = 725.40
FL. EL. 12" NW. = 721.25
FL. EL. 6" NW. = 721.30
FL. EL. 12" NE. = 721.25

PROP. 11.25° BEND, FL. EL. = 720.77
STA. 212+07.71, 15' RT.

+68 ~ 10' GRASS RES. DRIVE

D-22

A-55

A-56

BENCHMARK #13
DH NAIL W/TAG
IN NE. FACE PP #4015 0
STA. 212+79.39, 22.47' RT.
ELEVATION = 728.24

JEAN EICKHOLT
01-001028-00.000
100.0 AC.

PROP. CL ELEVATIONS

PROP. GUTTER LT.

PROP. GUTTER RT.

740 735 730 725 720 715 710 705

727.17 727.22 727.34 727.22 727.12 727.00 726.86 726.65 726.41 726.19

724.70 724.70 | 724.80 725.35 | +62, 725.50 | +74, 725.60 | 724.90 725.53 | 725.00 725.41 | 724.74 725.60 | 724.48 726.09 | +61, 726.20 | +75, 726.00 | 724.22 724.90 | 723.96 724.75 | +65, 724.50 | 724.70 724.60 | +44, 725.60 | 725.56 724.45 | 725.20 724.30

210+00 211+00 212+00 213+00 214+00 215+00

PROP. 109'(160')~12" TYPE C @-0.30%, RT.

EX. 12" RCP, RT.
REMOVE 38' ~ 12"

EXIST. CATCH BASIN
STA. 211+18, 18' RT.
TOP GR. EL. = 725.44
FL. EL. 8" N. = 721.42
FL. EL. 6" W. = 721.69
FL. EL. WINDOW W. =
TO BE REMOVED

PROP. CENTERLINE

PROP. GUTTER RT.

CL EX. PAVEMENT

PROP. 20'~10" TYPE C
STA. 213+61.70, 26' LT.
FL. EL. = 723.90

EX. 10" RCP
STA. 213+81, 20.6' LT.
FL. EL. = 723.40

1.29% RT. 0.20% LT. 0.83% RT. -0.27% RT. 0.39% RT. 0.98% RT. -1.43% RT. -4.40% RT. -0.52% LT. 0.57% LT. 2.05% LT. -0.30% RT. -0.71% LT.

PROP. 45'~6" TYPE C, RT.
PROP. 40'~12" TYPE C @-0.30%, RT.

PROP. 2-2B CATCH BASIN
STA. 211+48.43, 25' RT.
TOP GR. EL. = 725.40
FL. EL. 12" NW. = 721.25
FL. EL. 6" NW. = 721.30
FL. EL. 12" NE. = 721.25

PROP. 60'~12" TYPE C @-0.80%, RT.

EX. 8" CLAY, RT.
REMOVE 292.29' ~ 8"

PROP. 293'(540')~12" TYPE C @-0.80%, RT.

EX. 10" RCP, LT.

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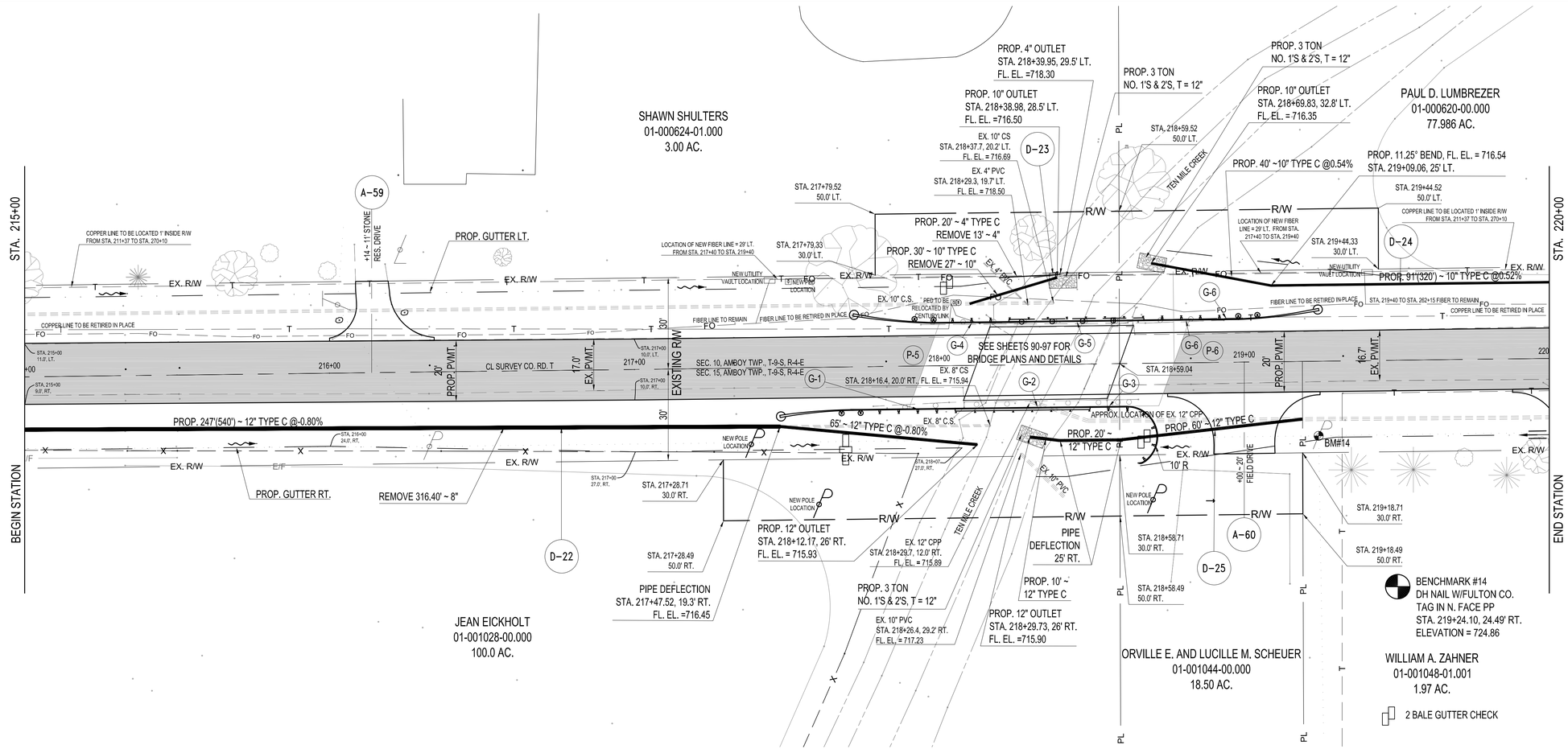
HORIZONTAL SCALE IN FEET
10 0 10 20

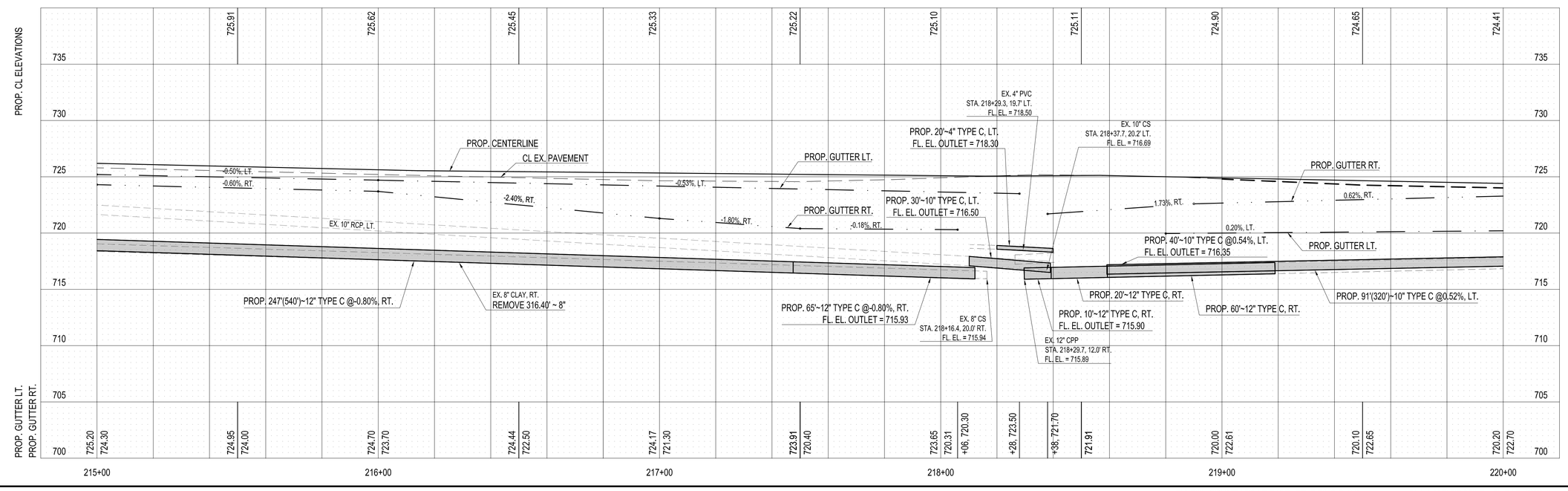
Drawn By: HKD/BDL
Checked By: FTO
Date: 2/13/2012
Revised: N/A
Revised: N/A

FULTON COUNTY ROAD T (CO. RD. 7 TO S.R. 64)
PLAN AND PROFILE ~ STA. 210+00 TO STA. 215+00

33
97

File: G:\Projects\Roads\County\Road T (7 to SR64)\dwgs\RCp23001.dwg – Feb 10, 2012 – 11:39am – Fulton County Engineer's Office





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HORIZONTAL SCALE IN FEET

Drawn By: HKD/BDL | Checked By: FTO

Date: 2/13/2012 | Revised: N/A

FULTON COUNTY ROAD T (CO. RD. 7 TO S.R. 64)
PLAN AND PROFILE ~ STA. 215+00 TO STA. 220+00

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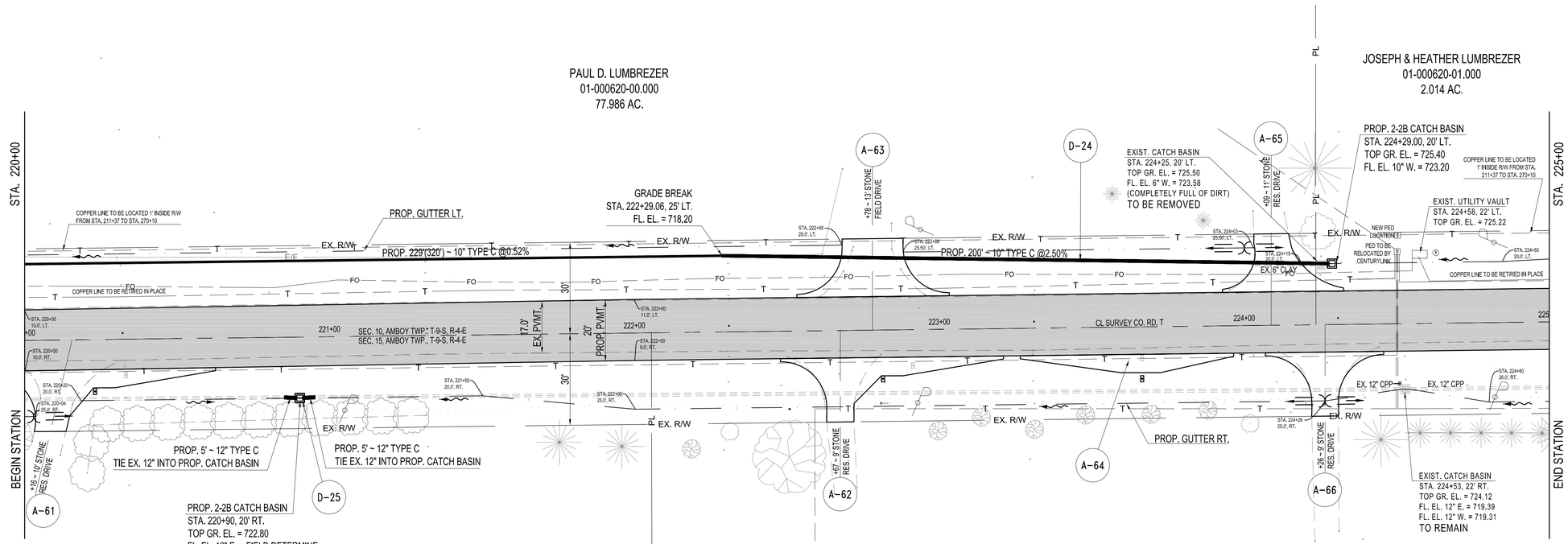

FULTON COUNTY ROAD T (CO. RD. 7 TO S.R. 64)
PLAN AND PROFILE ~ STA. 220+00 TO STA. 225+00

HORIZONTAL SCALE IN FEET
10 0 10 20

Drawn By: HKD/BDL
Checked By: FTO
Date: 2/13/2012
Revised: N/A
Revised: N/A

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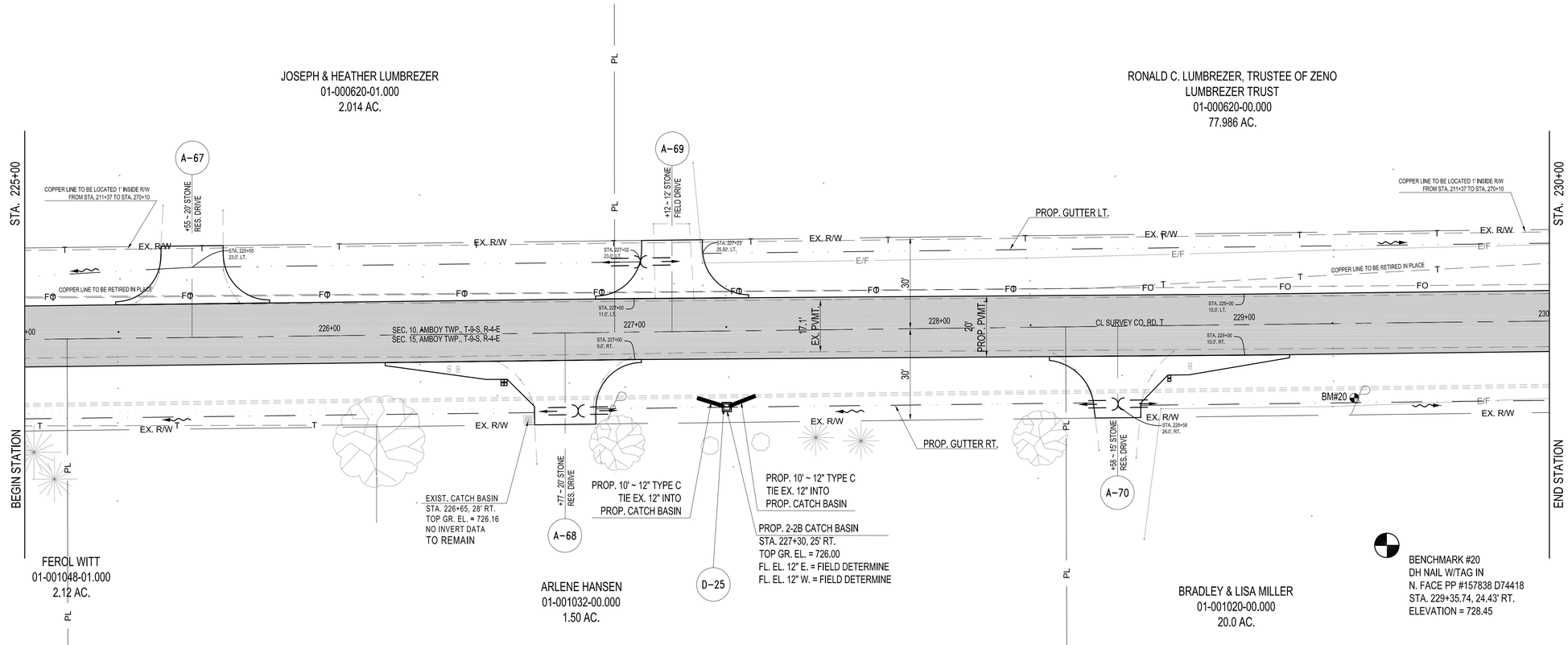

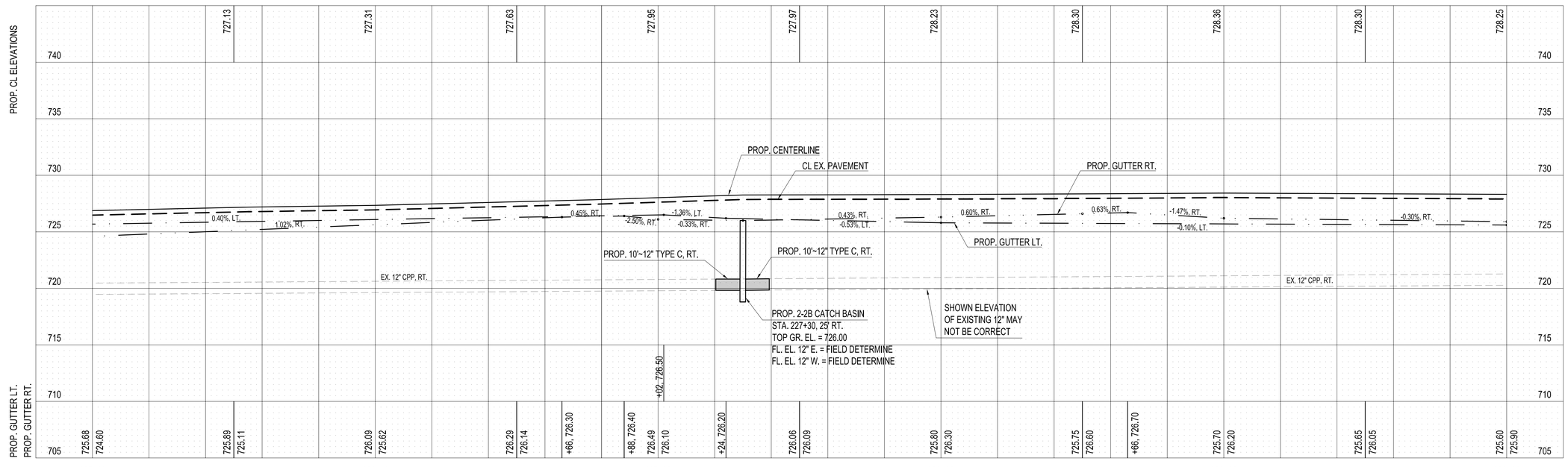

HORIZONTAL SCALE IN FEET

Drawn By: HKD/BDL
Checked By: FTO
Date: 2/13/2012
Revised: N/A
Revised: N/A

FULTON COUNTY ROAD T (CO. RD. 7 TO S.R. 64)
PLAN AND PROFILE ~ STA. 225+00 TO STA. 230+00

FULTON COUNTY ENGINEERING DEPT.
FRANK T. ONWELLER, P.E., P.S., COUNTY ENGINEER
ROD CREAGER, P.E., P.S., - CHIEF DEPUTY ENGINEER
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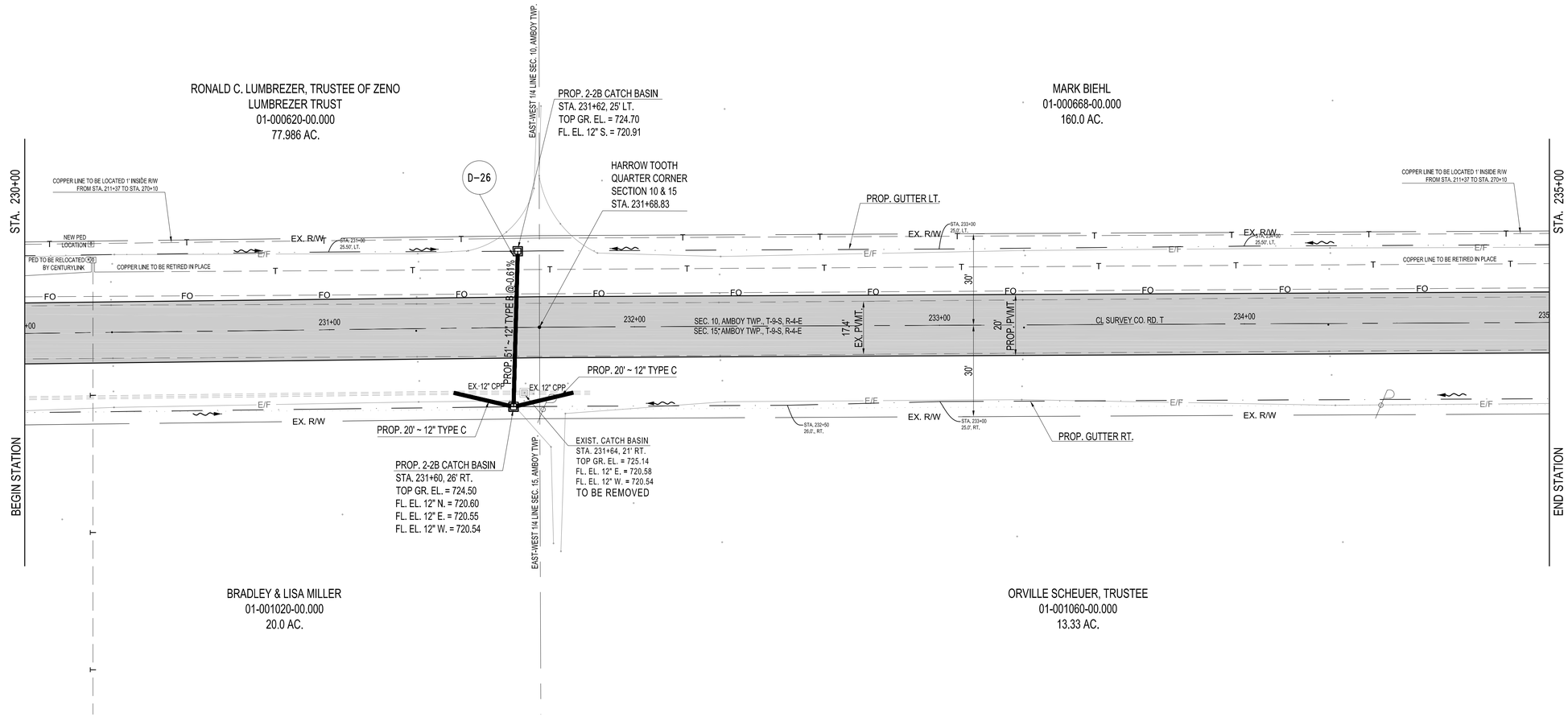
File: G:\Projects\Roads\County\Road T (7 to SR64)\dwgs\RCp26001.dwg - Feb 10, 2012 - 11:56am - Fulton County Engineer's Office



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HORIZONTAL SCALE IN FEET

Drawn By: HKD/BDL
Checked By: FTO
Date: 2/13/2012
Revised: N/A
Revised: N/A

FULTON COUNTY ROAD T (CO. RD. 7 TO S.R. 64)
PLAN AND PROFILE ~ STA. 230+00 TO STA. 235+00

FULTON COUNTY ENGINEERING DEPT.
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9120 Co Rd 14, WAUSEON, OHIO 43567
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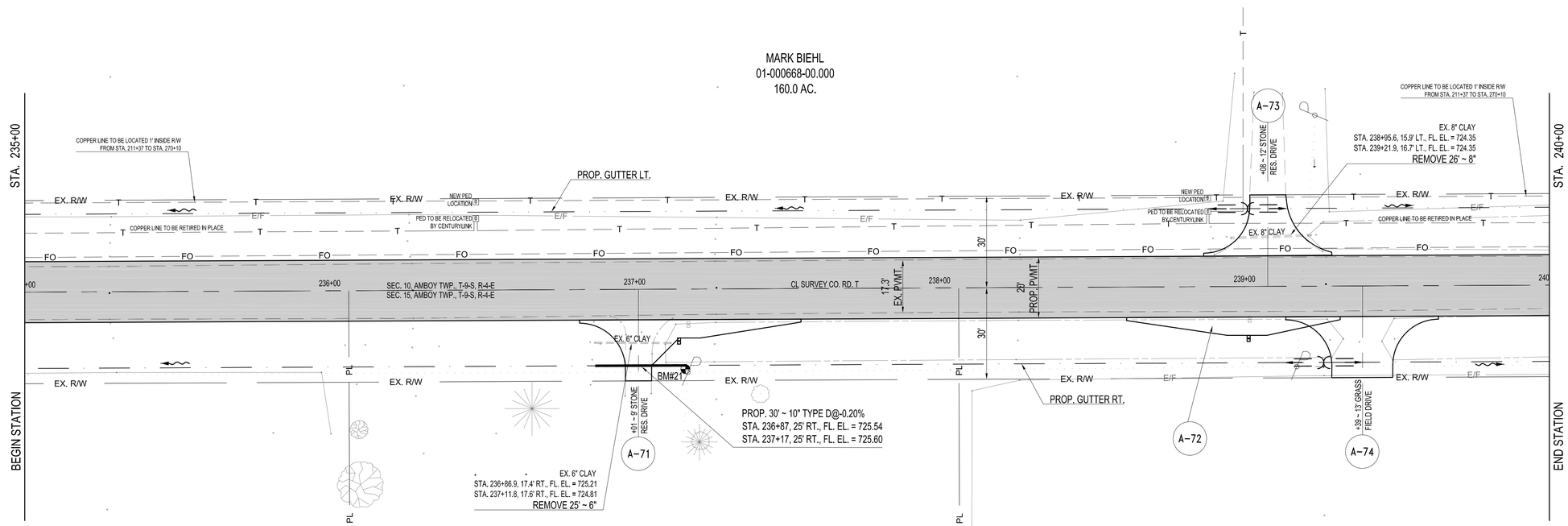

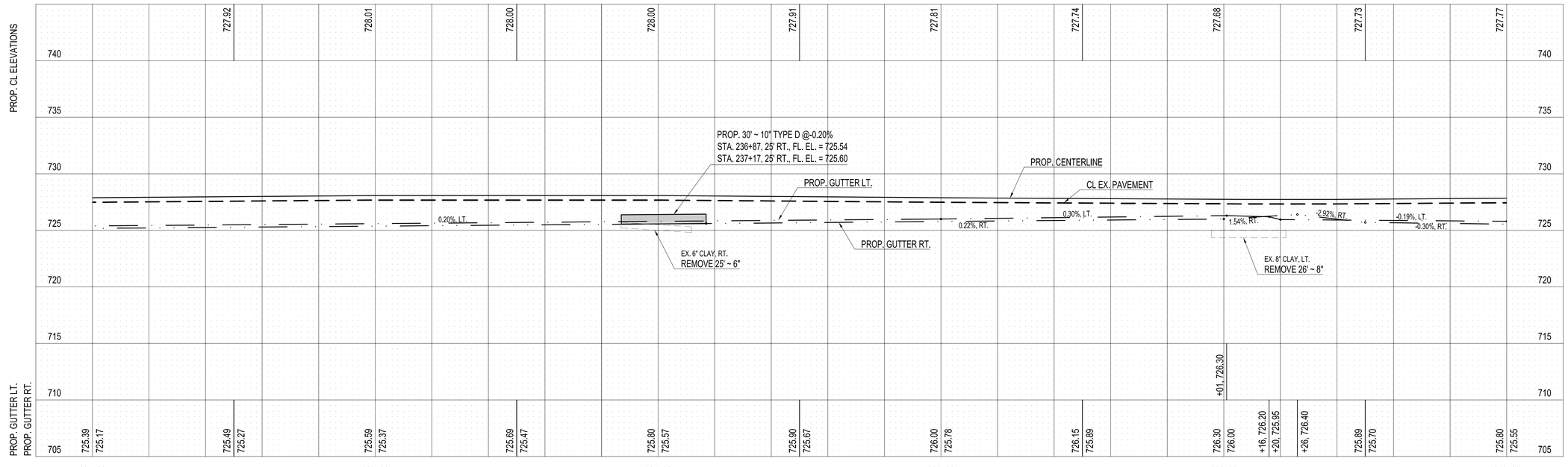

HORIZONTAL SCALE IN FEET

Drawn By: HKD/BDL | Checked By: FTO

Date: 2/13/2012 | Revised: N/A | N/A

FULTON COUNTY ROAD T (CO. RD. 7 TO S.R. 64)
PLAN AND PROFILE ~ STA. 235+00 TO STA. 240+00

FULTON COUNTY ENGINEERING DEPT.
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9120 Co Rd 14, WAUSEON, OHIO. 43567
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File: G:\Projects\Roads\County\Road T (7 to SR64)\dwgs\RCp28001.dwg - Feb 10, 2012 - 12:35pm - Fulton County Engineer's Office

MARK BIEHL
01-000668-00.000
160.0 AC.

STA. 240+00

STA. 245+00

BEGIN STATION

END STATION

COPPER LINE TO BE LOCATED 1' INSIDE R/W FROM STA. 211+37 TO STA. 270+10

COPPER LINE TO BE RETIRED IN PLACE

EX. R/W

E/F

FO

PROP. GUTTER LT.

NEW PED LOCATION

PED TO BE RELOCATED BY CENTURYLINK

30'

17.2'
EX. P/MT.

20'
PROP. P/MT.

241+00

242+00

243+00

244+00

SEC. 10, AMBOY TWP., T-9-S, R-4-E
SEC. 15, AMBOY TWP., T-9-S, R-4-E

CL SURVEY CO. RD. T

STA. 244+00
10.0', LT.

STA. 244+00
10.0', RT.

STA. 244+00
27.0', RT.

STA. 243+00
25.0', RT.

PROP. GUTTER RT.

EX. 10" CLAY / EX. 12" CS

BM#22

EX. 10" CLAY, STA. 244+67.0, 15.2' RT., FL. EL. = 722.87
EX. 12" CS, STA. 244+89.0, 16.0' RT., FL. EL. = 722.80
REMOVE 22' ~ 10"/12"

PROP. 30' ~ 10" TYPE D@-0.20%
STA. 244+63, 27' RT., FL. EL. = 724.16
STA. 244+92.93, 25' RT., FL. EL. = 724.10

+78 - 16' GRASS FIELD DRIVE

A-75

PL

THOMAS A. JR. & JOAN
HERR
01-001066-01.000
12.56 AC.

MILDRED SCHEUER, TRUSTEE
01-001064-00.000
43.08 AC.

BENCHMARK #22
DH NAIL W/TAG
IN N. FACE PP
STA. 244+61.26, 24.16' RT.
ELEVATION = 727.19

PROP. CL ELEVATIONS

PROP. GUTTER LT.
PROP. GUTTER RT.

240+00	241+00	242+00	243+00	244+00	245+00
	727.83	727.89	727.84	727.79	727.52
	727.25	727.04	726.83	726.55	726.26
	725.80	725.67	725.55	725.42	725.30
	725.13	724.97	724.80	724.63	724.47
	724.30				
	725.55	725.40	725.25	725.10	724.95
	724.80	724.65	724.50	724.35	724.20
	724.09				

740 735 730 725 720 715 710 705

PROP. CENTERLINE
CL EX. PAVEMENT
PROP. GUTTER LT.
PROP. GUTTER RT.
-0.25%, LT.
-0.30%, RT.
-0.33%, LT.
-0.20%, RT.
-0.18%, RT.
PROP. 30' ~ 10" TYPE D @-0.20%
STA. 244+63, 27' RT., FL. EL. = 724.16
STA. 244+92.93, 25' RT., FL. EL. = 724.10
EX. 10" CLAY/12" CS, RT.
REMOVE 22' ~ 10"/12"

HORIZONTAL SCALE IN FEET
10 0 10 20

Drawn By: HKD/BDL
Checked By: FTO
Date: 2/13/2012
Revised: N/A
Revised: N/A

FULTON COUNTY ROAD T (CO. RD. 7 TO S.R. 64)
PLAN AND PROFILE ~ STA. 240+00 TO STA. 245+00

FULTON COUNTY ENGINEERING DEPT.
FRANK T. OMWELLER, P.E., P.S., COUNTY ENGINEER
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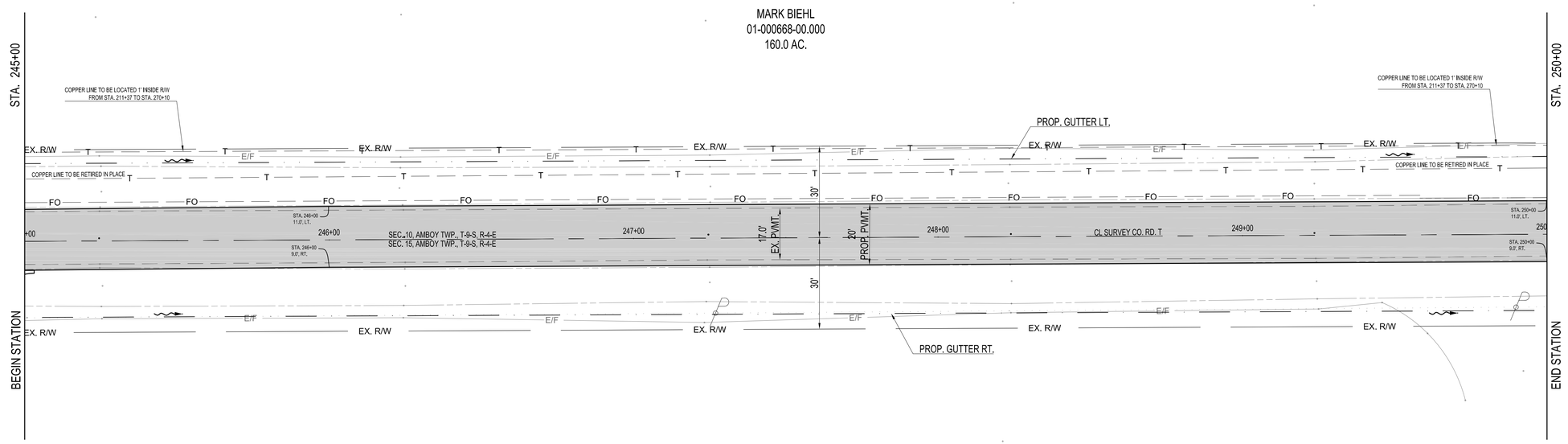
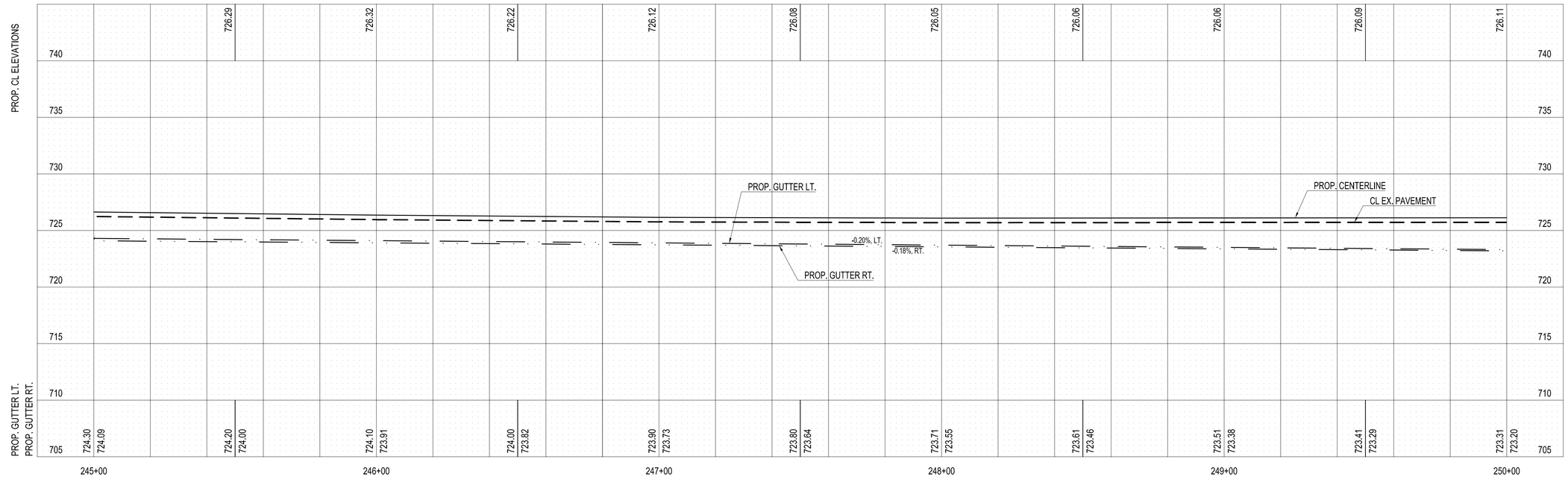
File: G:\Projects\Roads\County\Road T (7 to SR64)\dwgs\RCp29001.dwg - Feb 10, 2012 - 12:45pm - Fulton County Engineer's Office





HORIZONTAL SCALE IN FEET
10 0 10 20

Drawn By: HKD/BDL
Checked By: FTO
Date: 2/13/2012
Revised: N/A
Revised: N/A

FULTON COUNTY ROAD T (CO. RD. 7 TO S.R. 64)
PLAN AND PROFILE ~ STA. 245+00 TO STA. 250+00

FULTON COUNTY ENGINEERING DEPT.
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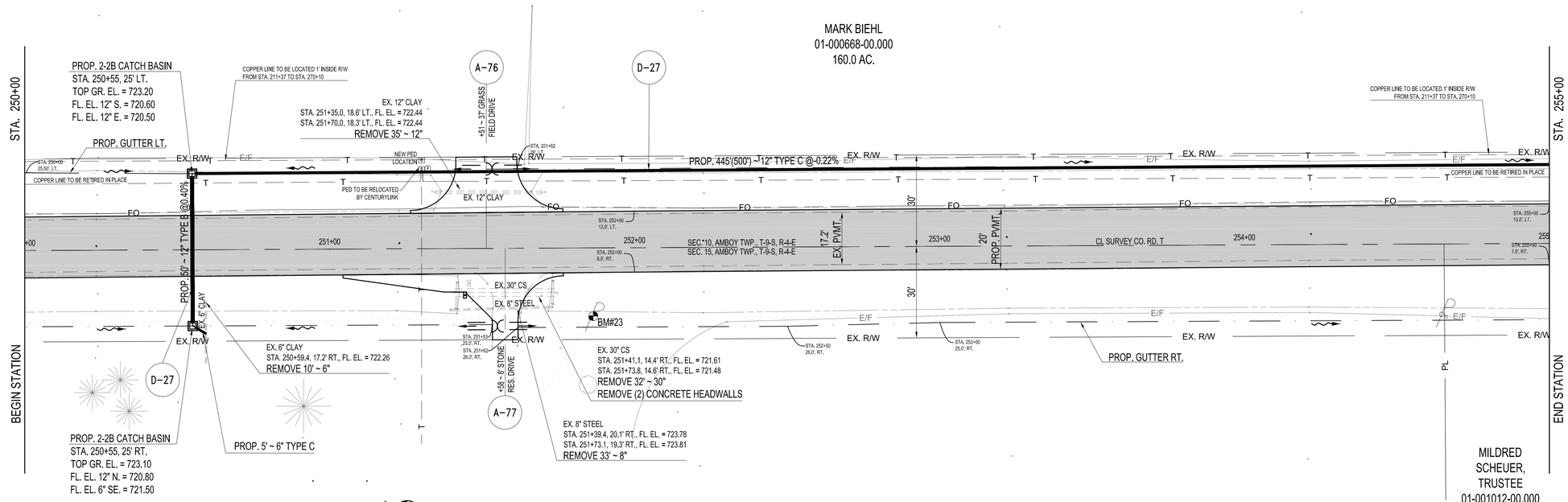
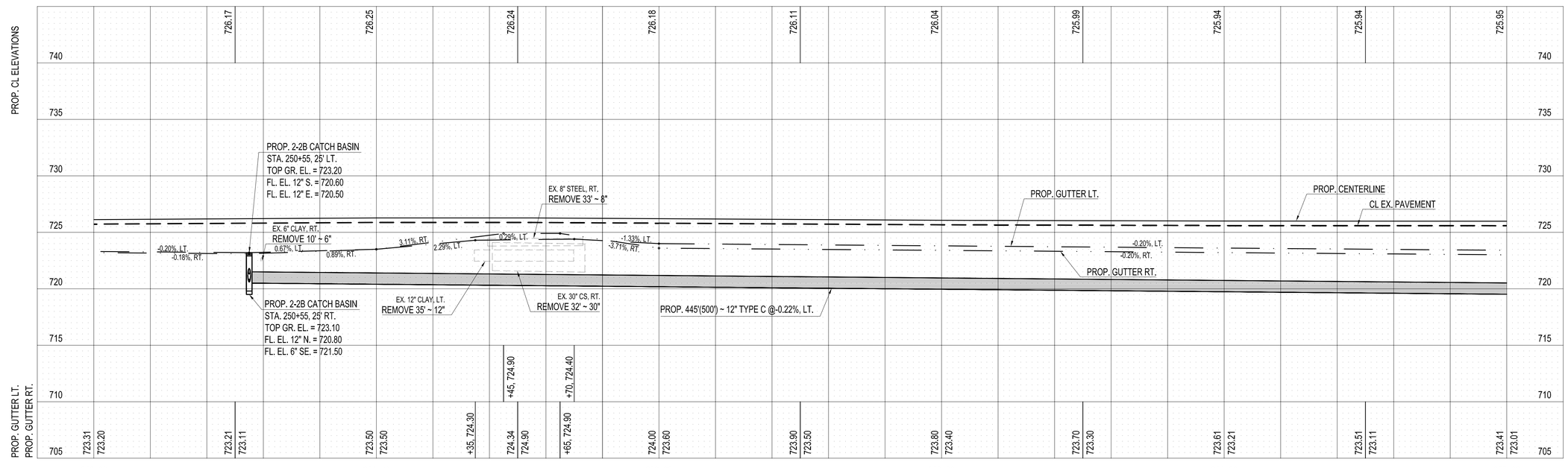


BENCHMARK #23
DH NAIL W/TAG
IN N. FACE PP
STA. 251+86.37, 22.37' RT.
ELEVATION = 725.76



HORIZONTAL SCALE IN FEET
10 0 10 20

Drawn By: HKD/BDL
Checked By: FTO
Date: 2/13/2012
Revised: N/A

FULTON COUNTY ROAD T (CO. RD. 7 TO S.R. 64)
PLAN AND PROFILE ~ STA. 250+00 TO STA. 255+00

FULTON COUNTY ENGINEERING DEPT.
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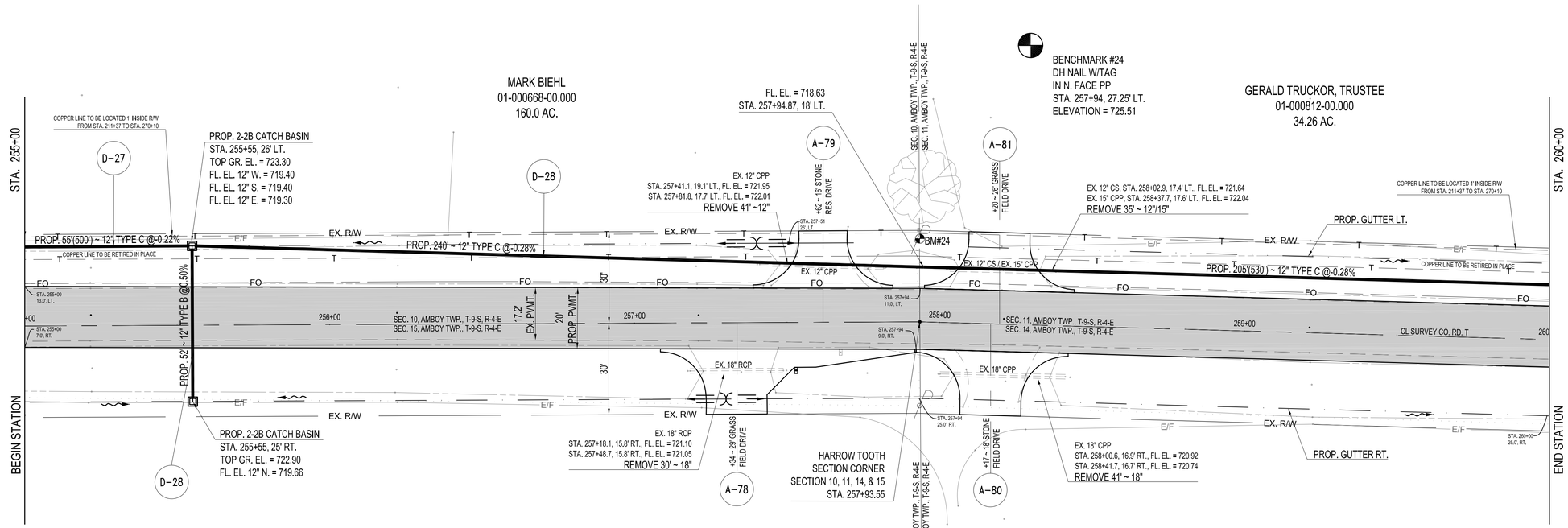

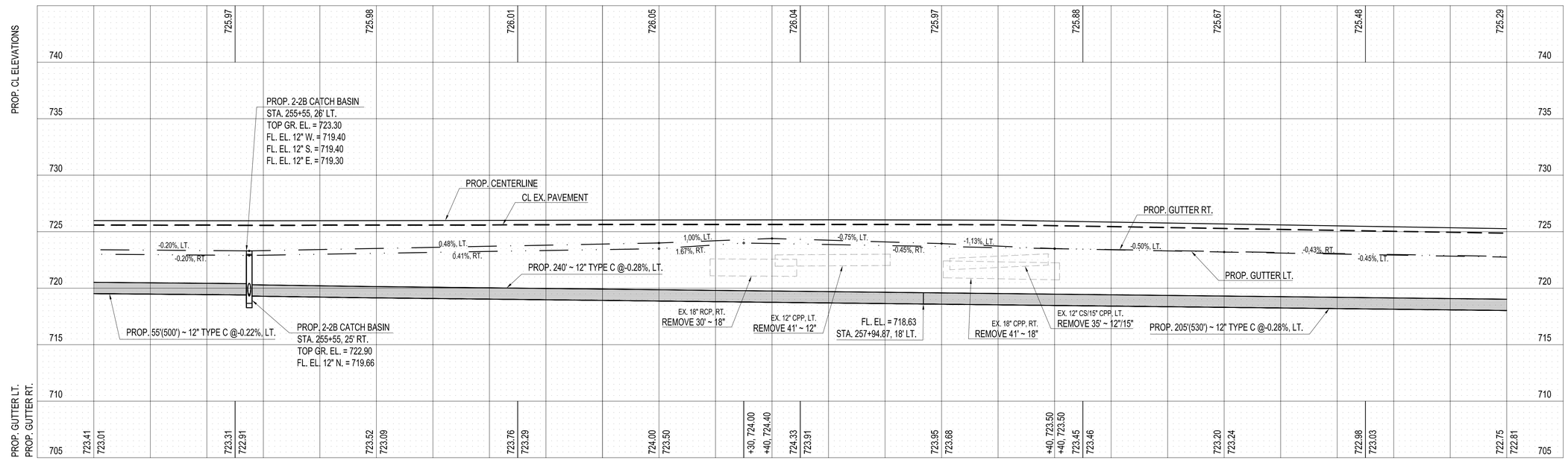

FULTON COUNTY ROAD T (CO. RD. 7 TO S.R. 64)
PLAN AND PROFILE ~ STA. 255+00 TO STA. 260+00

HORIZONTAL SCALE IN FEET
0 10 20

Drawn By: HKD/BDL
Checked By: FTO
Date: 2/13/2012
Revised: N/A
Revised: N/A

FULTON COUNTY ENGINEERING DEPT.
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File: G:\Projects\Roads\County\Road T (7 to SR64)\dwgs\RCp32001.dwg - Feb 10, 2012 - 12:51pm - Fulton County Engineer's Office

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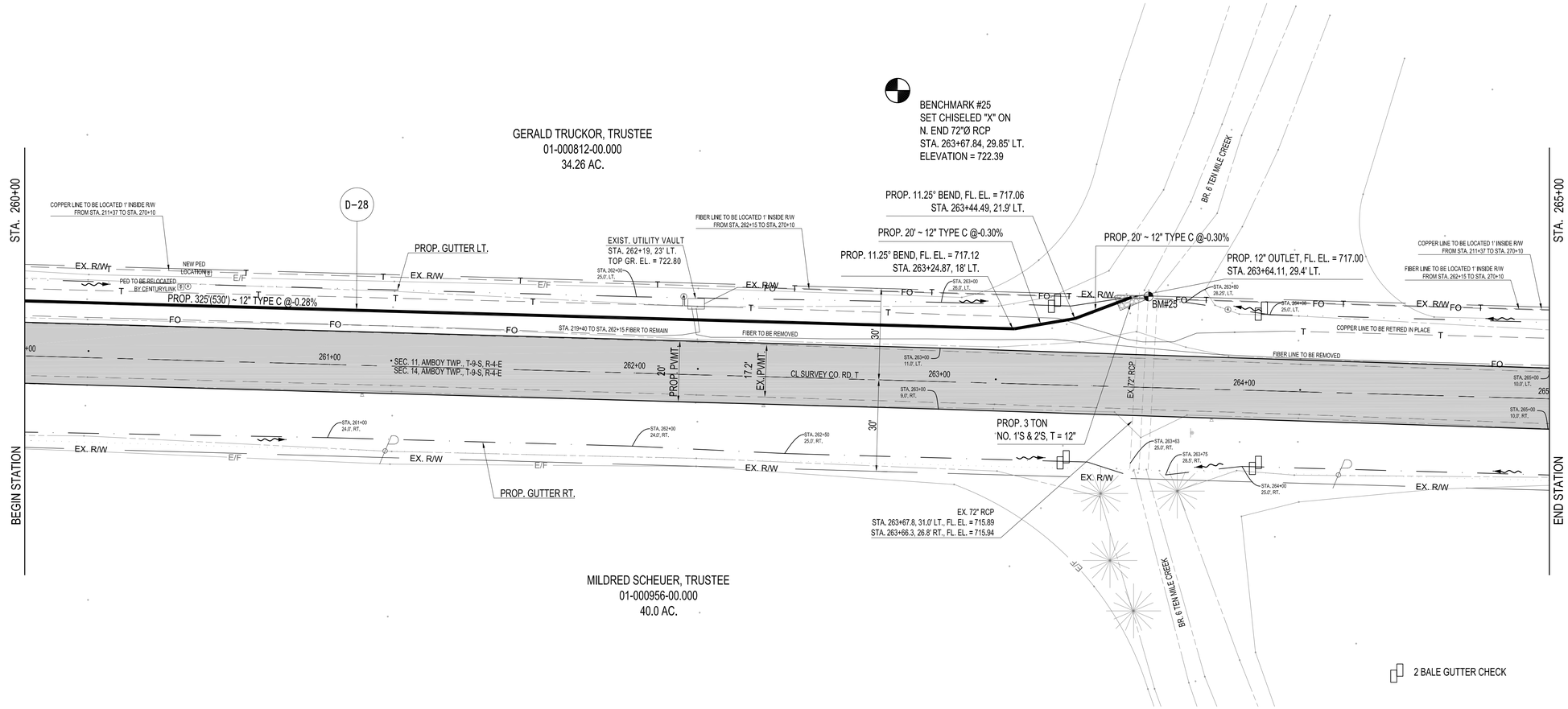

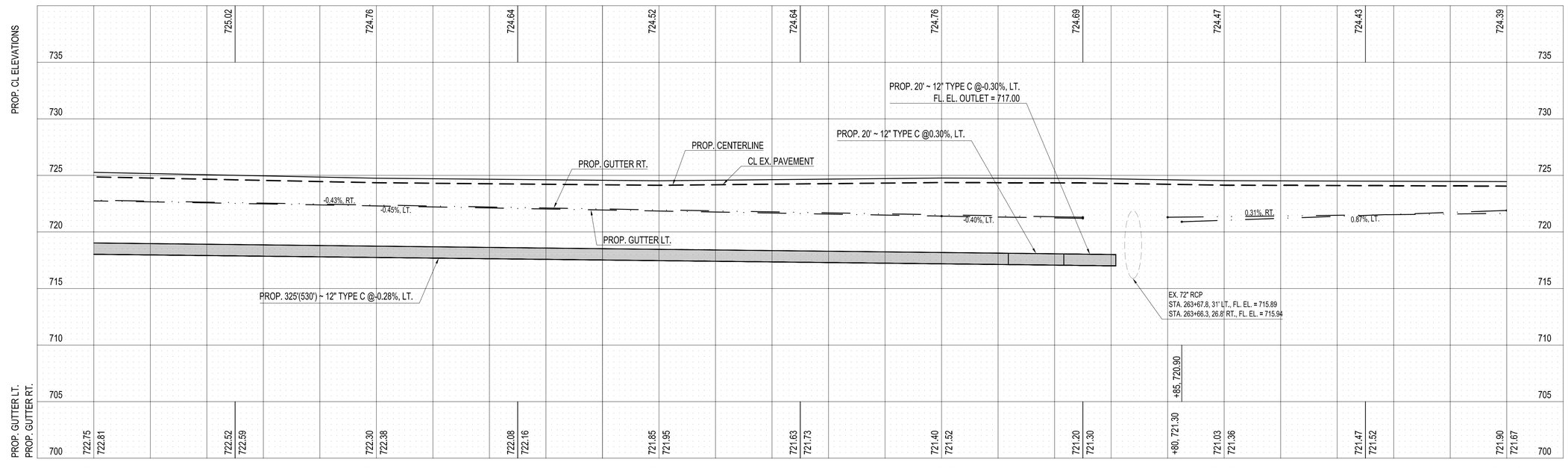

HORIZONTAL SCALE IN FEET

Drawn By: HKD/BDL
Checked By: FTO
Date: 2/13/2012
Revised: N/A
Revised: N/A

FULTON COUNTY ROAD T (CO. RD. 7 TO S.R. 64)
PLAN AND PROFILE ~ STA. 260+00 TO STA. 265+00

FULTON COUNTY ENGINEERING DEPT.
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9120 Co Rd 14, WAUSEON, OHIO. 43567
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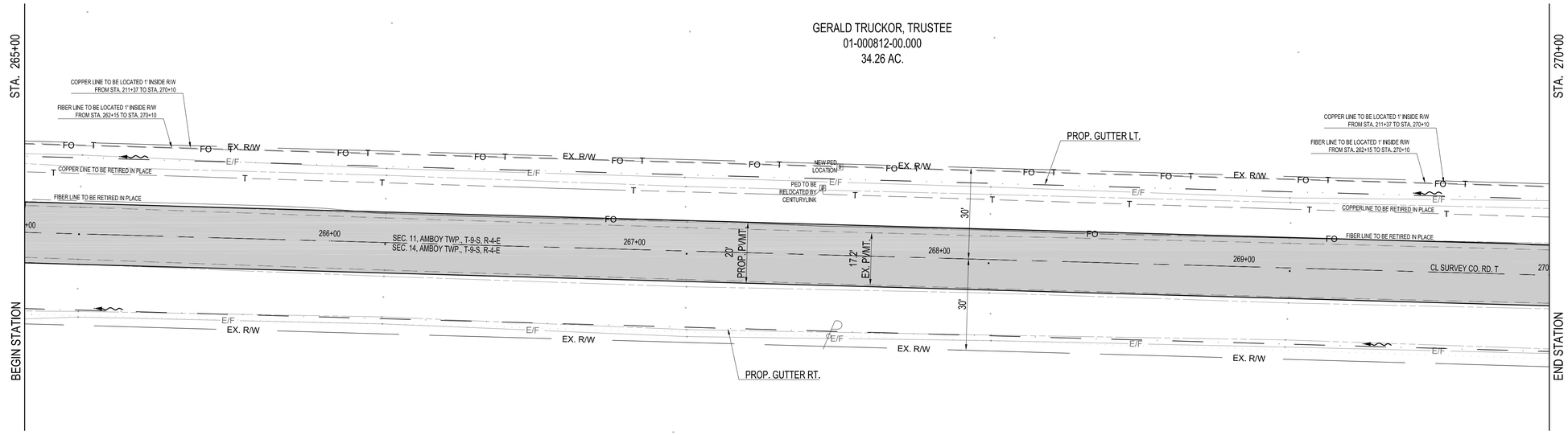

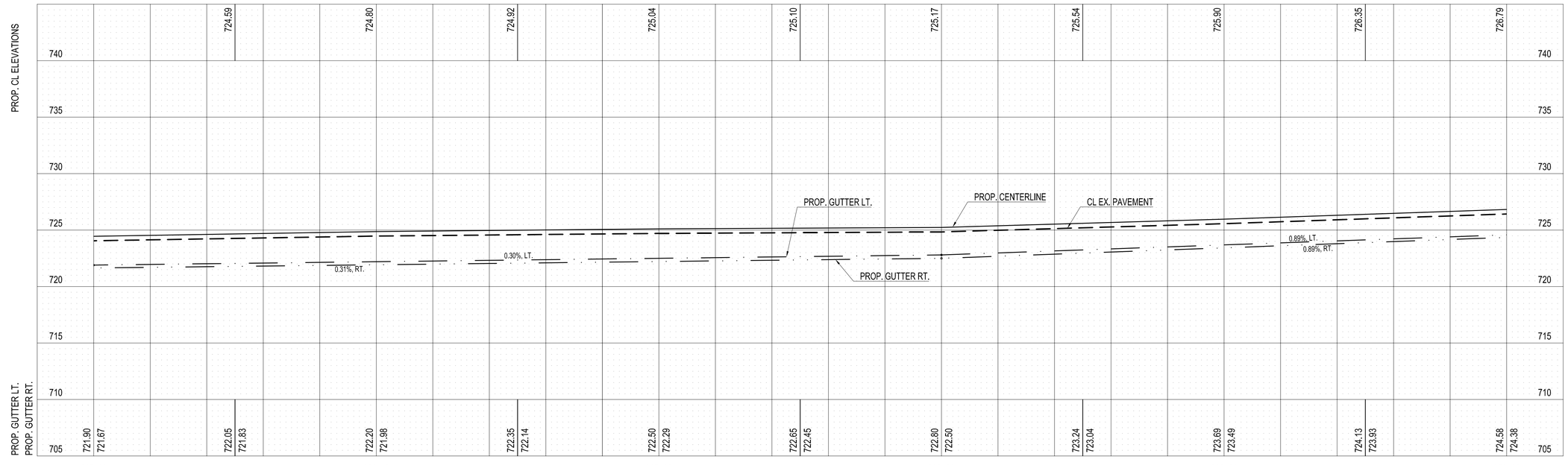

FULTON COUNTY ROAD T (CO. RD. 7 TO S.R. 64)
PLAN AND PROFILE ~ STA. 265+00 TO STA. 270+00

HORIZONTAL SCALE IN FEET
10 0 10 20

Drawn By: HKD/BDL
Checked By: FTO
Date: 2/13/2012
Revised: N/A
Revised: N/A

FULTON COUNTY ENGINEERING DEPT.
FRANK T. CONWELLER, P.E., P.S. - COUNTY ENGINEER
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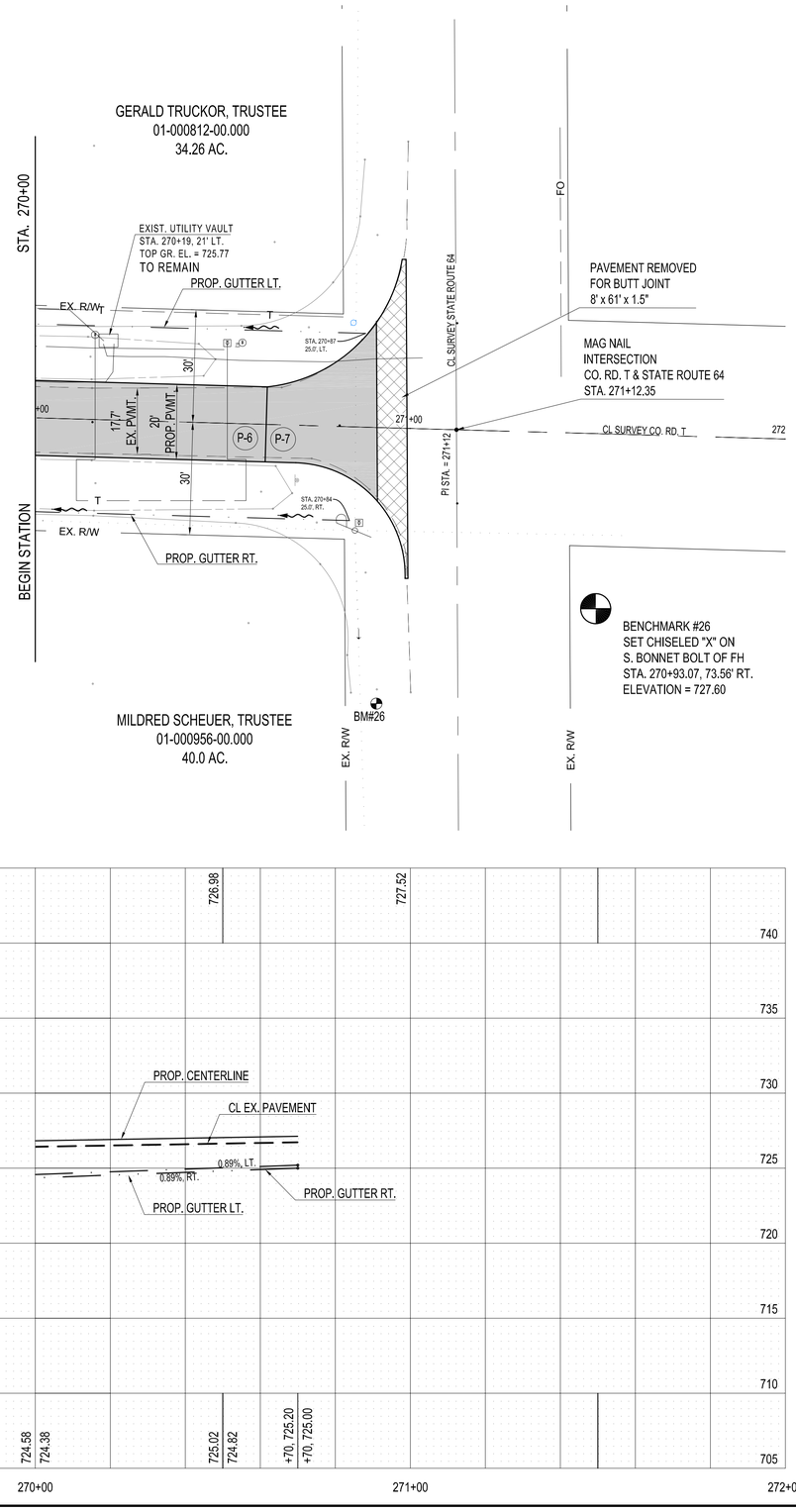

N

HORIZONTAL SCALE IN FEET
10 0 10 20

Drawn By: HKD/BDL
Checked By: FTO

Date: 2/13/2012
Revised: N/A
Revised: N/A

FULTON COUNTY ROAD T (CO. RD. 7 TO S.R. 64)
PLAN AND PROFILE ~ STA. 270+00 TO END

FULTON COUNTY ENGINEERING DEPT.
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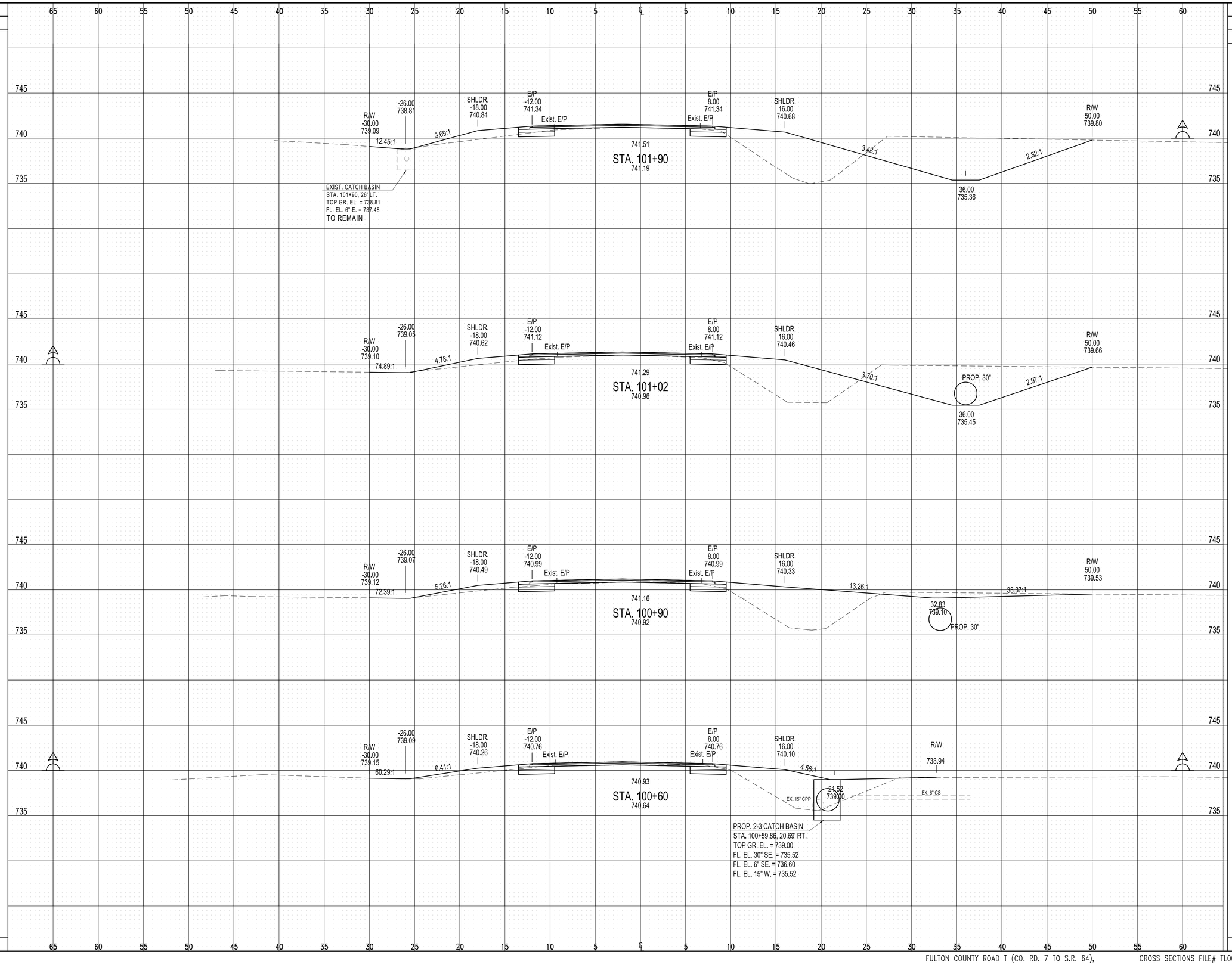

END AREA SQ. FT. CUT	END AREA SQ. FT. FILL	VOLUME CU. YD. CUT	VOLUME CU. YD. FILL
78.94	55.68	248.71	170.93
73.67	49.21	19.39	22.85
13.59	53.62	11.90	55.36
7.83	46.04	0.00	0.00
TOTAL		280.00	249.14

Drawn By: HKD/BDL
Checked By: FTO
Date: 2/13/2012
Revised: N/A N/A

HORIZONTAL & VERTICAL SCALE IN FEET
10 5 0 5

FULTON COUNTY ROAD T (CO. RD. 7 TO S.R. 64)
CROSS SECTIONS ~ STA. 100+60 TO STA. 101+90

FULTON COUNTY ENGINEERING DEPT.
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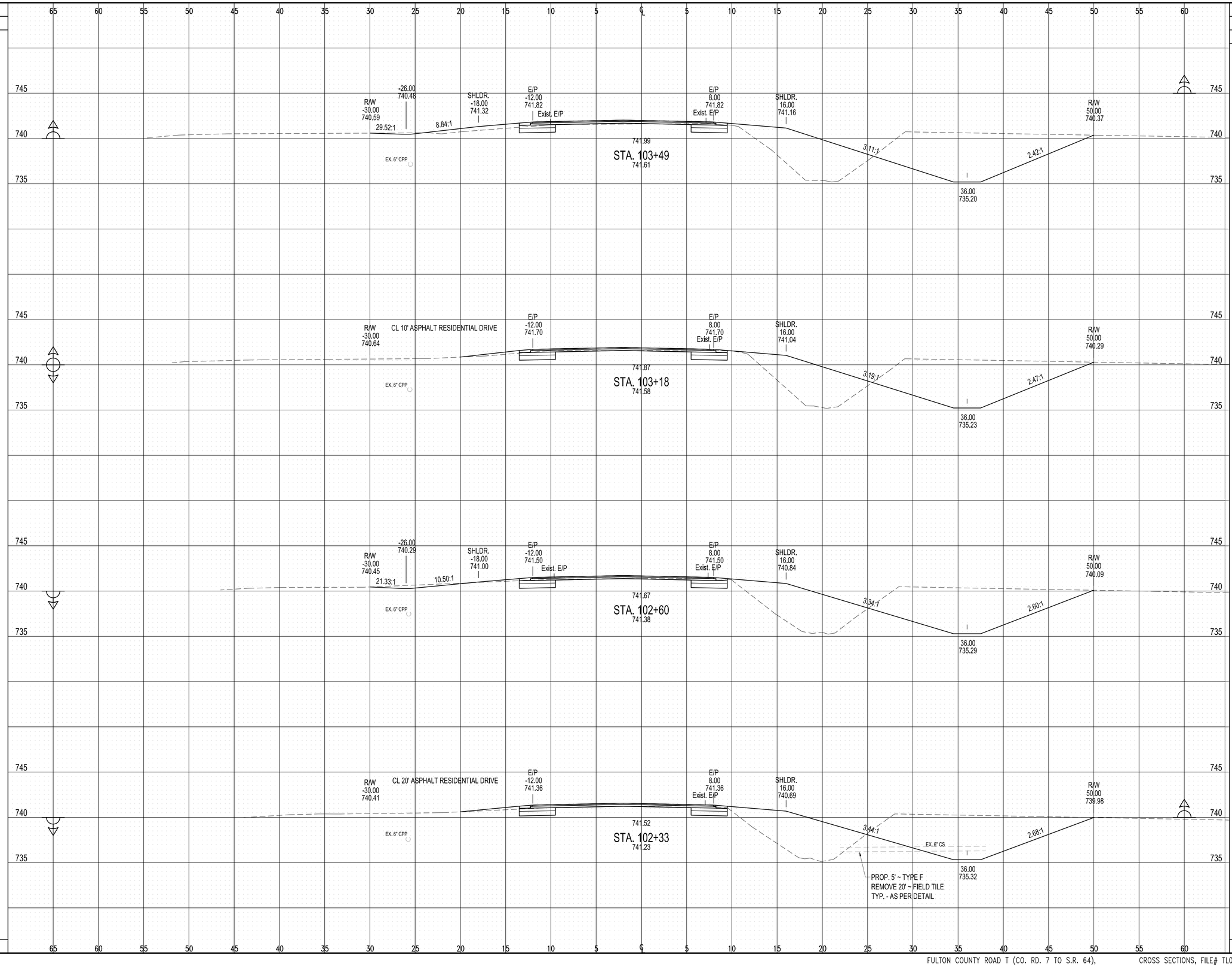
File: G:\Projects\Roads\County\Road T (7 to SR64)\dwgs\cross section master.dwg – Feb 10, 2012 – 1:35pm – Fulton County Engineer's Office



END AREA SQ. FT. CUT	END AREA SQ. FT. FILL	VOLUME CU. YD. CUT	VOLUME CU. YD. FILL
88.88	48.99	102.40	52.78
89.49	42.95		
191.28	94.17		
88.59	44.72	87.05	45.53
85.51	46.33	130.95	81.23
TOTAL		511.68	273.71

Drawn By: HKD/BDL
Checked By: FTO
Date: 2/13/2012
Revised: N/A

HORIZONTAL & VERTICAL SCALE IN FEET
10 5 0 5

FULTON COUNTY ROAD T (CO. RD. 7 TO S.R. 64)
CROSS SECTIONS ~ STA. 102+33 TO STA. 103+49

FULTON COUNTY ENGINEERING DEPT.
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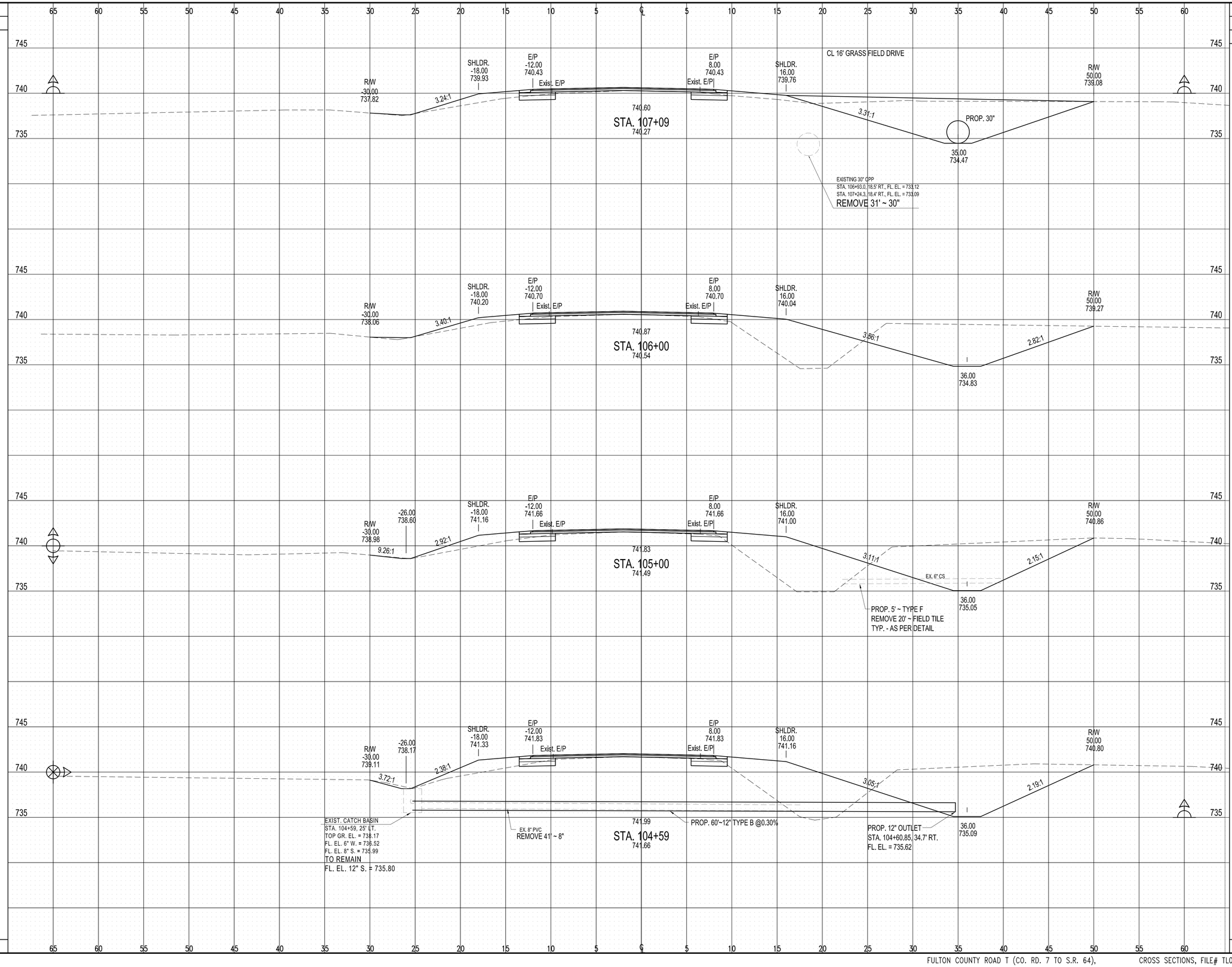

END AREA SQ. FT. CUT	END AREA SQ. FT. FILL	VOLUME CU. YD. CUT	VOLUME CU. YD. FILL
84.85	12.20	-59.25	-30.55
		625.19	129.79
77.94	52.09		
		297.63	218.89
82.78	66.11	130.05	101.06
88.51	67.00	361.36	236.27
TOTAL		1414.23	686.01

Drawn By: HKD/BDL
Checked By: FTO
Date: 2/13/2012
Revised: N/A
Revised: N/A

HORIZONTAL & VERTICAL SCALE IN FEET
10 5 0 5

FULTON COUNTY ROAD T (CO. RD. 7 TO S.R. 64)
CROSS SECTIONS ~ STA. 104+59 TO STA. 107+09

FULTON COUNTY ENGINEERING DEPT.
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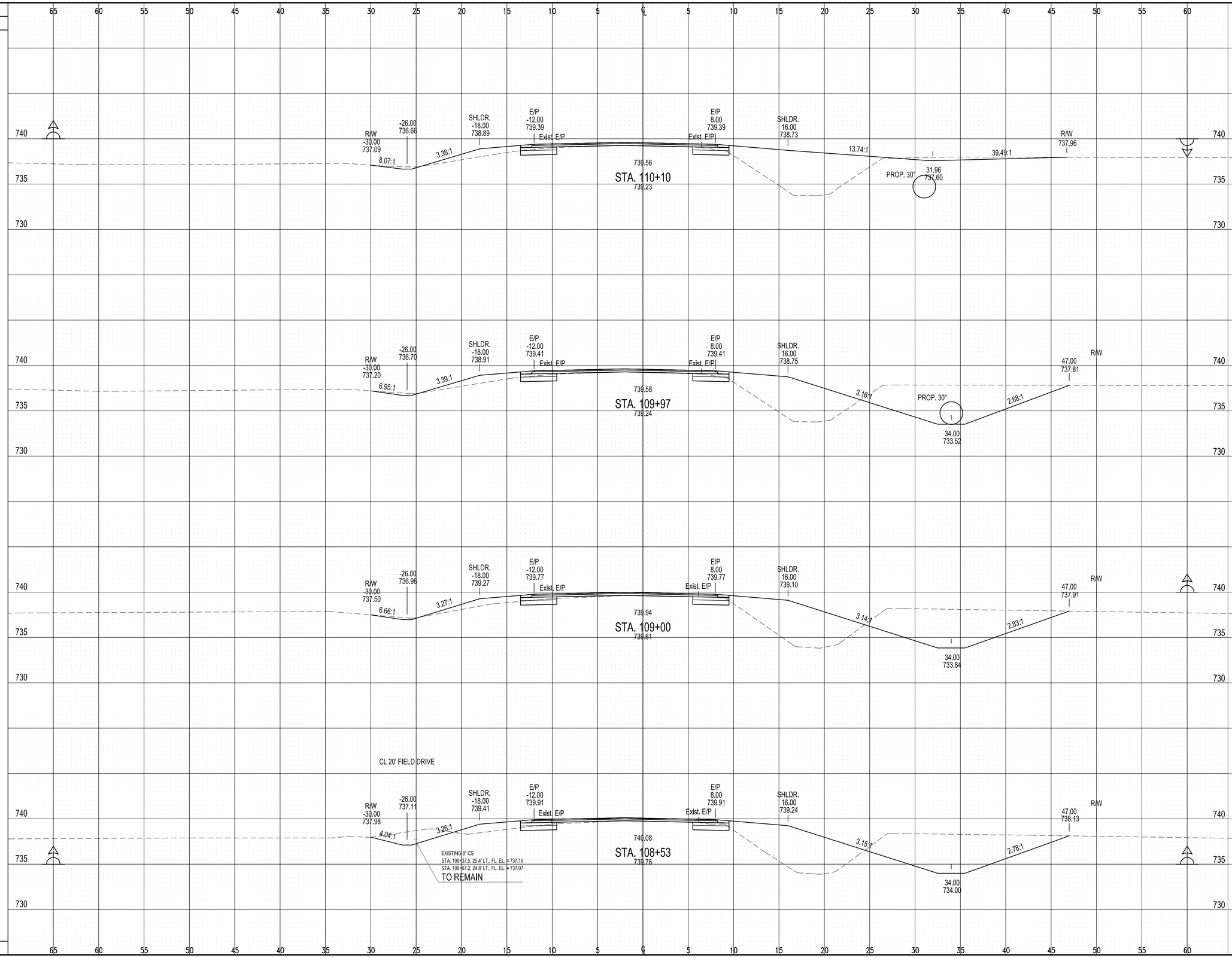
48
97

File: G:\Projects\Roads\County\Road T (7 to SR64)\dwgs\cross section master.dwg – Feb 10, 2012 – 1:38pm – Fulton County Engineer's Office



END AREA SQ. FT. CUT	END AREA SQ. FT. FILL	VOLUME CU. YD. CUT	VOLUME CU. YD. FILL
9.54	59.17		
		18.36	26.05
66.71	49.05		
		238.09	179.84
65.84	51.07		
		121.05	89.52
73.24	51.79		
		813.40	170.65
TOTAL		1190.90	466.06

Drawn By: HKD/BDL
Checked By: FTO
Date: 2/13/2012
Revised: N/A N/A

HORIZONTAL & VERTICAL SCALE IN FEET
10 5 0 5 10

FULTON COUNTY ROAD T (CO. RD. 7 TO S.R. 64)
CROSS SECTIONS ~ STA. 108+53 TO STA. 110+10

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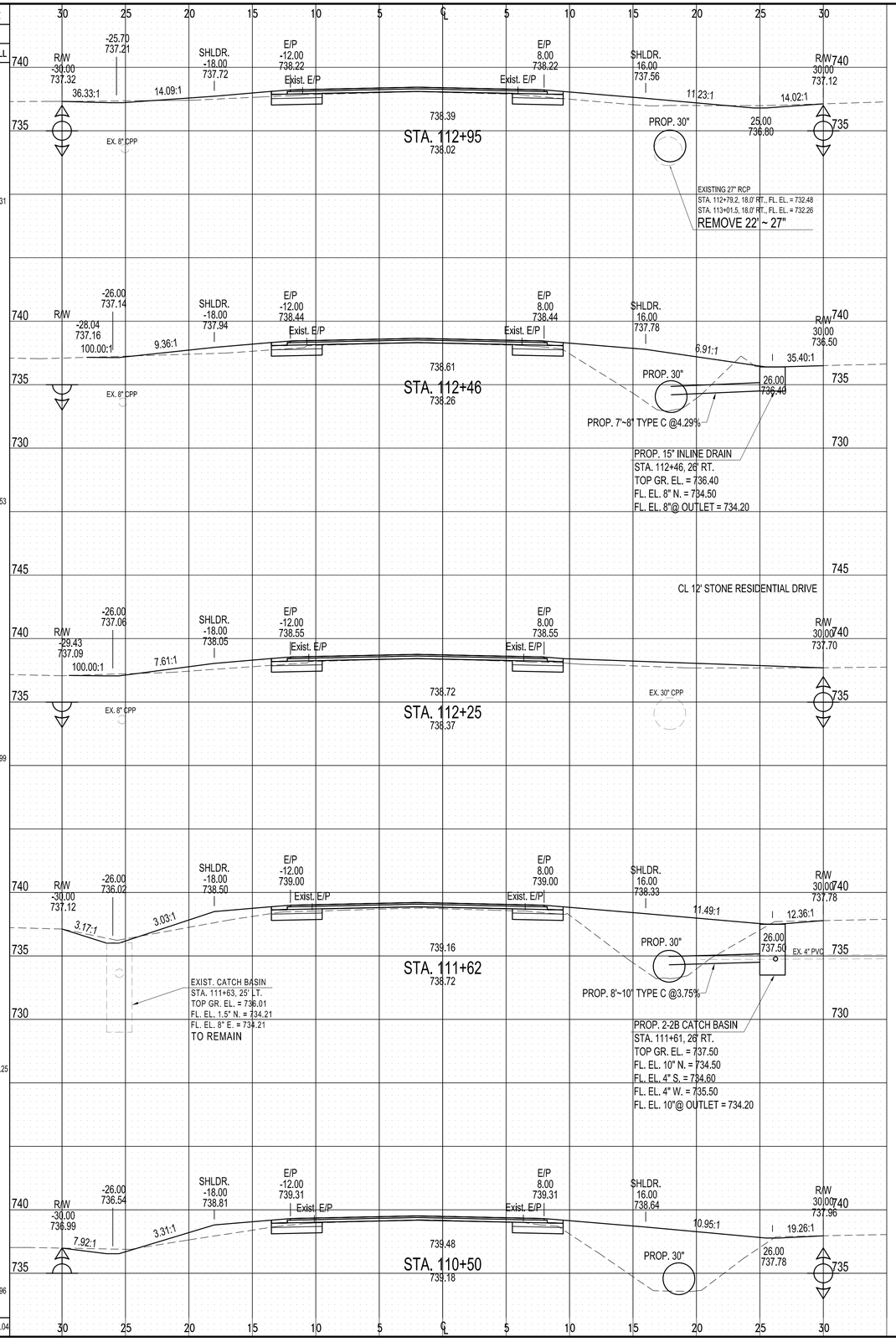
File: G:\Projects\Roads\County\Road T (7 to SR64)\dwgs\cross section master.dwg – Feb 10, 2012 – 1:39pm – Fulton County Engineer's Office

END AREA SQ.FT. CUT	END AREA SQ.FT. FILL	VOLUME CU.YD. CUT	VOLUME CU.YD. FILL
6.81	8.35	11.59	45.31
5.97	41.58	4.93	18.53
6.70	6.07	67.99	20.42
10.80	52.20	226.25	37.53
7.29	56.88	85.96	12.47
TOTAL		86.94	444.04



END AREA SQ.FT. CUT	END AREA SQ.FT. FILL	VOLUME CU.YD. CUT	VOLUME CU.YD. FILL
10.41	8.57	7.39	31.90
4.93	57.68	3.64	42.01
4.89	55.75	16.66	149.24
7.11	51.70	14.18	61.16
TOTAL	41.87	284.31	

Drawn By: HKD/BDL
Checked By: FTO
Date: 2/13/2012
Revised: N/A

VERTICAL SCALE IN FEET 10 5 0 5 10
HORIZONTAL SCALE IN FEET 20 10 0 10 20

FULTON COUNTY ROAD T (CO. RD. 7 TO S.R. 64)
CROSS SECTIONS ~ STA. 110+50 TO STA. 114+71

FULTON COUNTY ENGINEERING DEPT.
FRANK T. CONWELL, P.E., P.S. COUNTY ENGINEER
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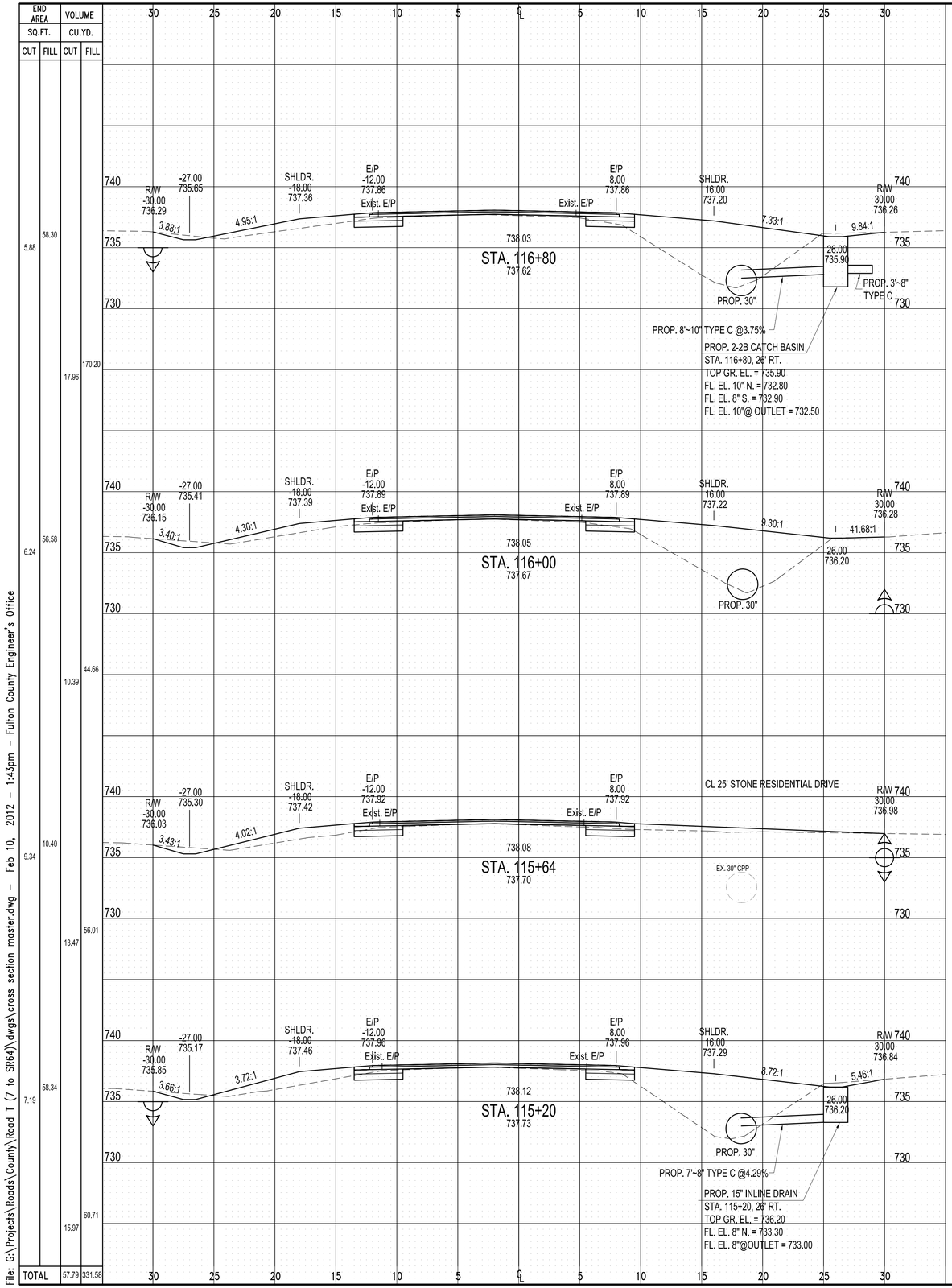
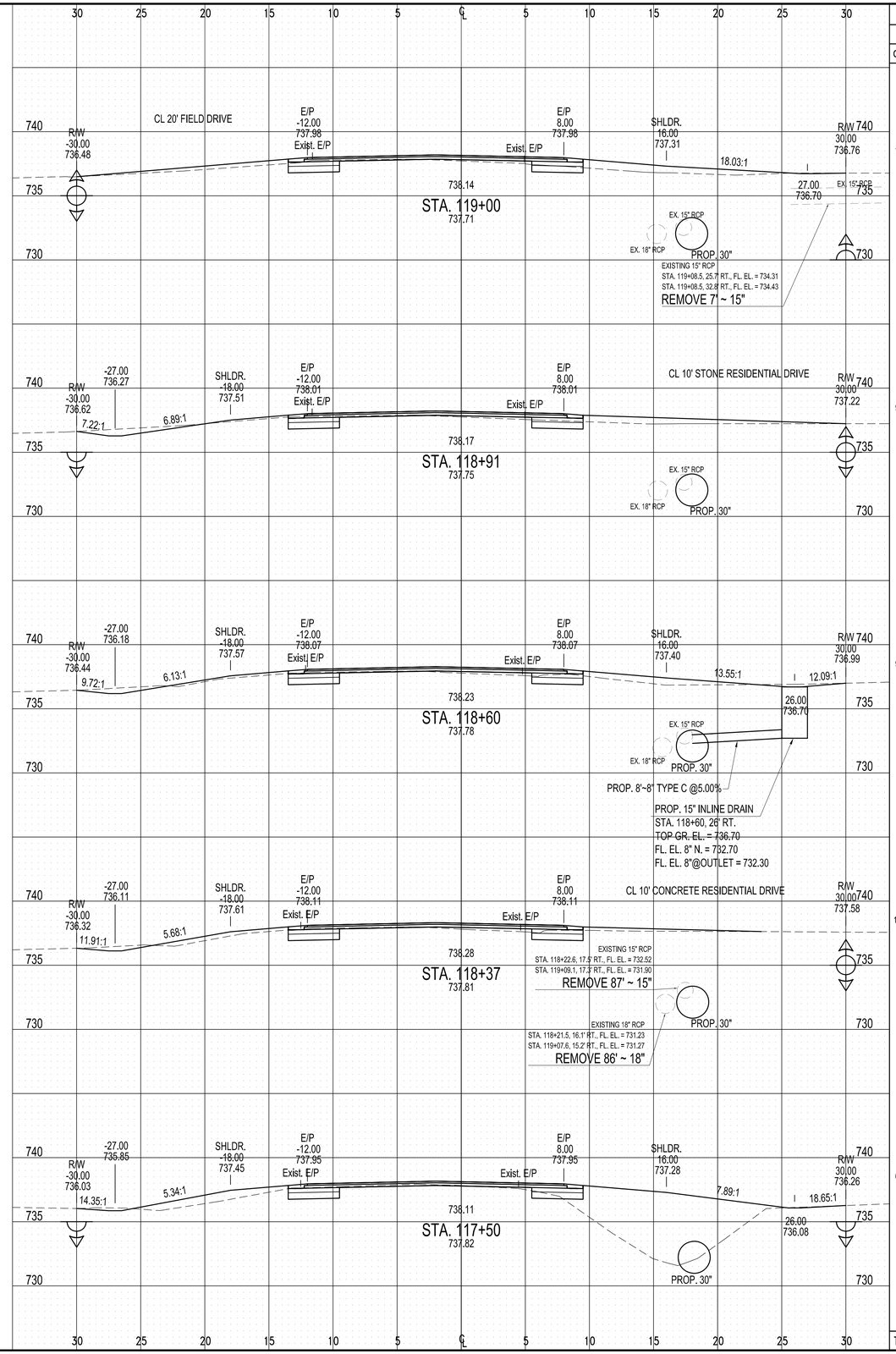
File: G:\Projects\Roads\County\Road T (7 to SR64)\dwgs\cross section master.dwg – Feb 10, 2012 – 1:40pm – Fulton County Engineer's Office

File: G:\Projects\Roads\County\Road T (7 to SR64)\dwgs\cross section master.dwg – Feb 10, 2012 – 1:43pm – Fulton County Engineer's Office

END AREA SQ.FT. CUT	END AREA SQ.FT. FILL	VOLUME CU.YD. CUT	VOLUME CU.YD. FILL
5.88	58.30		170.20
		17.96	
6.24	56.58		44.66
		10.39	
9.34	10.40		56.01
		13.47	
7.19	58.34		60.71
		15.97	
TOTAL	57.79	331.58	





END AREA SQ.FT. CUT	END AREA SQ.FT. FILL	VOLUME CU.YD. CUT	VOLUME CU.YD. FILL
7.39	11.51		2.62
		2.88	
9.87	4.21		6.92
		11.05	
9.38	7.84		5.37
		8.65	
10.93	4.78		104.86
		27.29	
6.01	60.30		153.75
		15.42	
TOTAL	65.29	273.52	

VERTICAL SCALE IN FEET 10 5 0 5 10
HORIZONTAL SCALE IN FEET 20 10 0 10 20

Drawn By: HKD/BDL
Checked By: FTO
Date: 2/13/2012
Revised: N/A N/A

FULTON COUNTY ROAD T (CO. RD. 7 TO S.R. 64)
PLAN AND PROFILE ~ STA. 115+20 TO STA. 119+00

FULTON COUNTY ENGINEERING DEPT.
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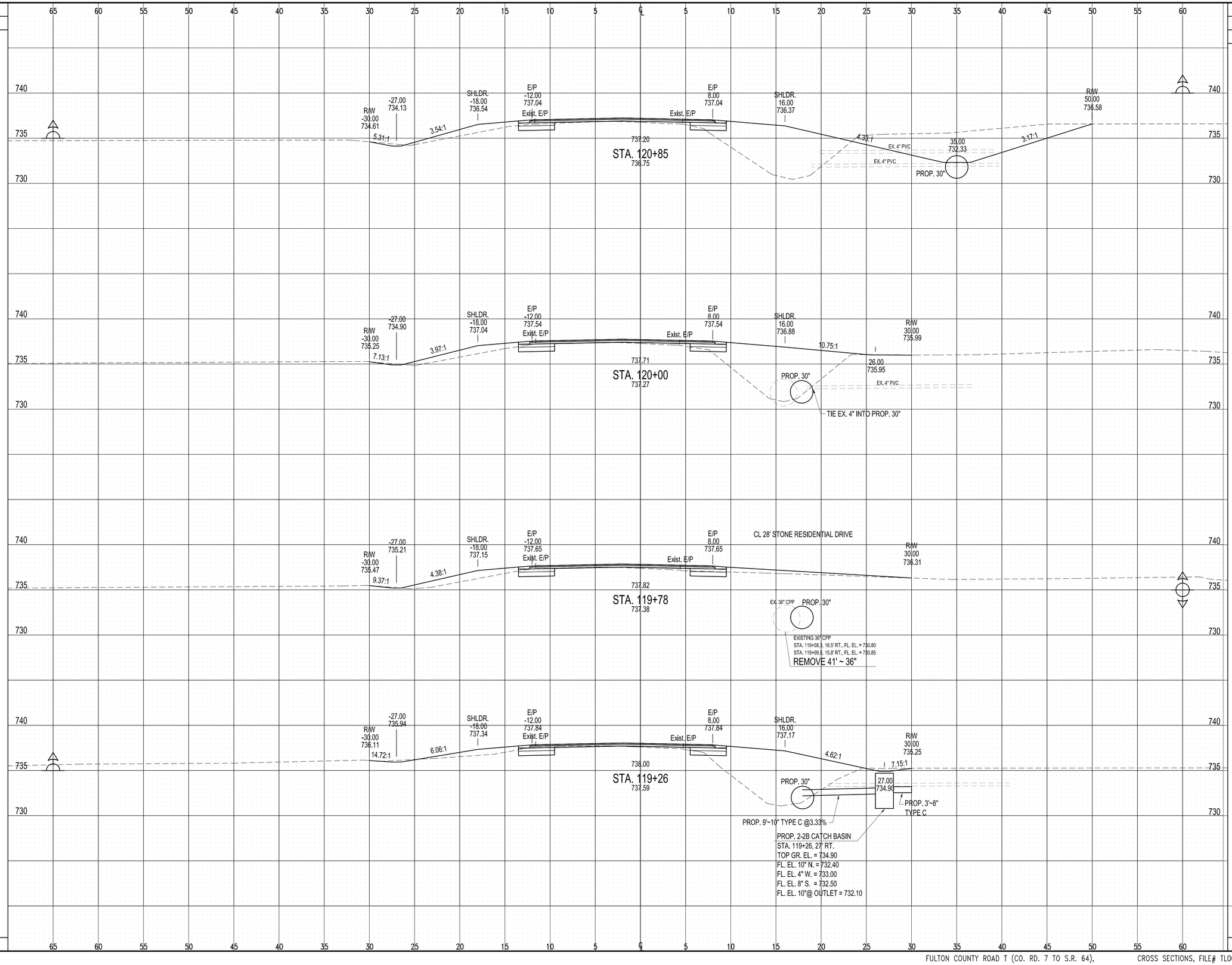

END AREA SQ. FT. CUT	END AREA SQ. FT. FILL	VOLUME CU. YD. CUT	VOLUME CU. YD. FILL
58.46	65.38	98.85	208.33
4.34	66.97	4.13	33.36
5.79	14.92	11.63	79.18
6.29	67.30	6.58	37.95
TOTAL		121.19	358.82

Drawn By: HKD/BDL
Checked By: FTO
Date: 2/13/2012
Revised: N/A
Revised: N/A

HORIZONTAL & VERTICAL SCALE IN FEET
10 5 0 5

FULTON COUNTY ROAD T (CO. RD. 7 TO S.R. 64)
CROSS SECTIONS ~ STA. 119+26 TO STA. 120+85

FULTON COUNTY ENGINEERING DEPT.
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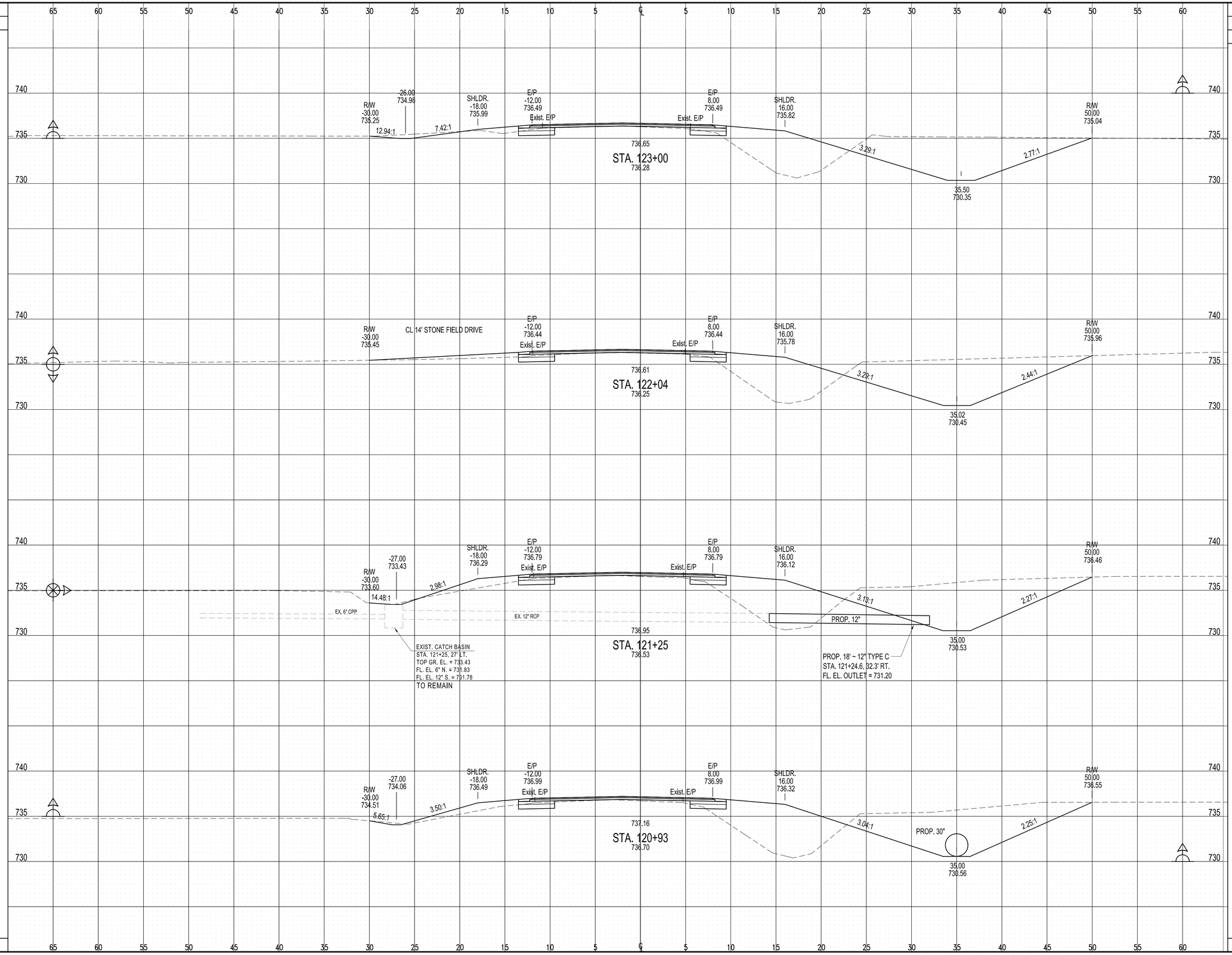

END AREA SQ. FT. CUT	END AREA SQ. FT. FILL	VOLUME CU. YD. CUT	VOLUME CU. YD. FILL
85.24	47.10	309.86	166.57
89.06	46.60	262.27	152.42
90.21	57.59	105.59	71.38
87.98	62.87	21.69	19.00
TOTAL		699.41	409.37

Drawn By: HKD/BDL
Checked By: FTO
Date: 2/13/2012
Revised: N/A N/A

HORIZONTAL & VERTICAL SCALE IN FEET
10 5 0 5

FULTON COUNTY ROAD T (CO. RD. 7 TO S.R. 64)
CROSS SECTIONS ~ STA. 120+93 TO STA. 123+00

FULTON COUNTY ENGINEERING DEPT.
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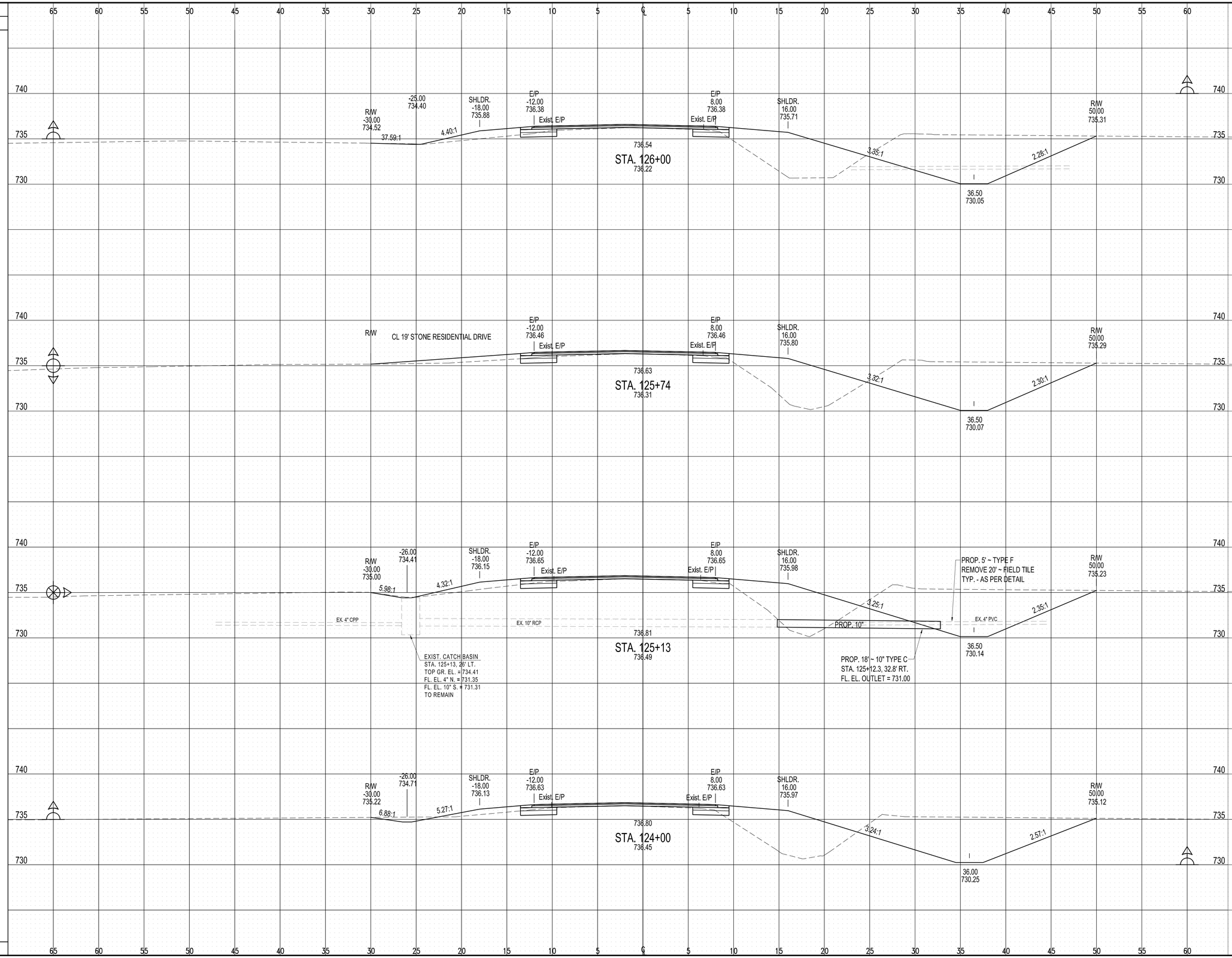

END AREA SQ. FT.		VOLUME CU. YD.	
CUT	FILL	CUT	FILL
88.84	55.01	85.68	50.97
89.11	50.86	202.12	114.20
89.81	50.23	371.16	212.42
87.55	51.28	319.98	182.19
TOTAL		978.94	559.78

Drawn By: HKD/BDL | Checked By: FTO

Date: 2/13/2012 | Revised: N/A | N/A

HORIZONTAL & VERTICAL SCALE IN FEET

10 5 0 5

FULTON COUNTY ROAD T (CO. RD. 7 TO S.R. 64)

CROSS SECTIONS ~ STA. 124+00 TO STA. 126+00

FULTON COUNTY ENGINEERING DEPT.
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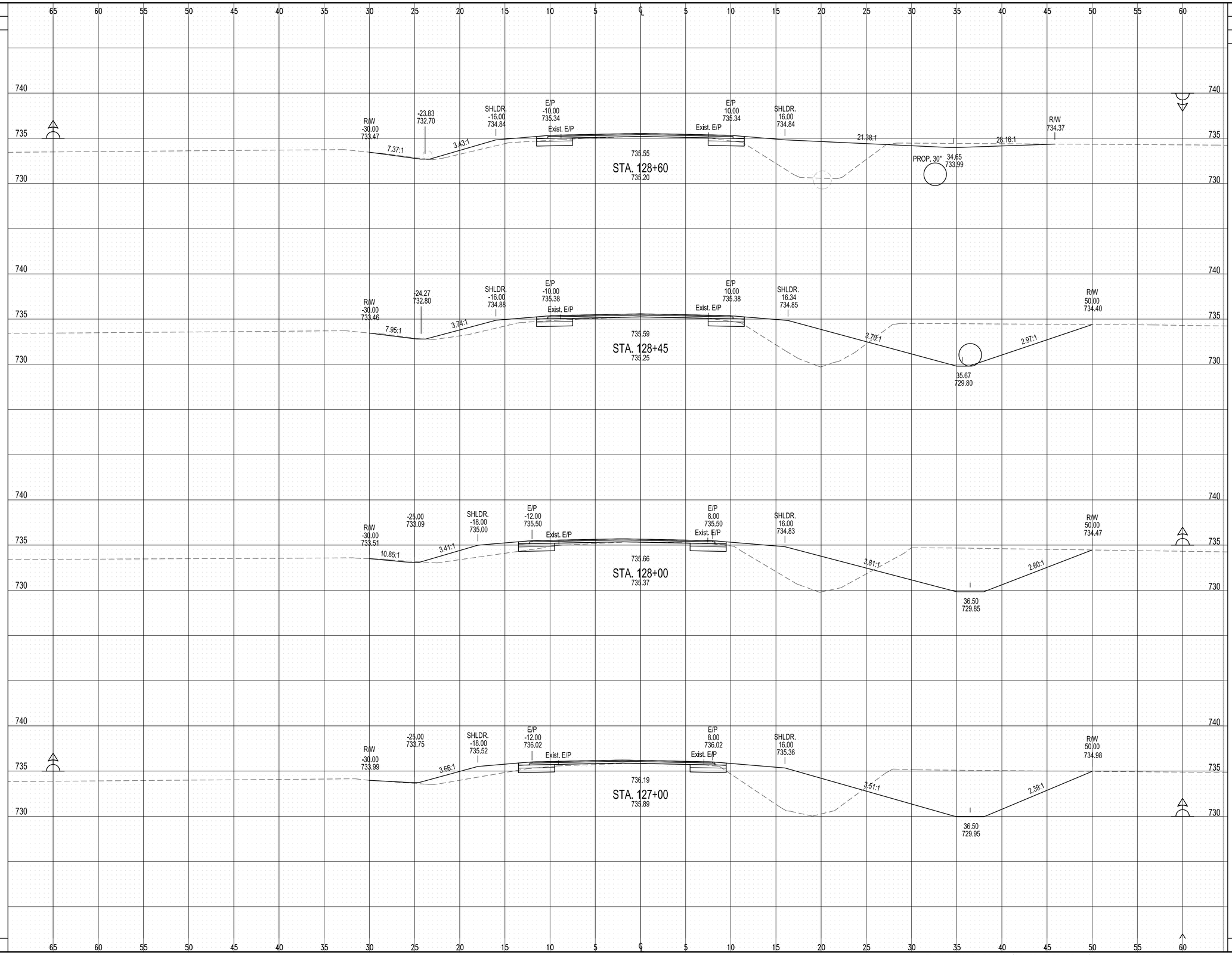

END AREA SQ. FT. CUT	END AREA SQ. FT. FILL	VOLUME CU. YD. CUT	VOLUME CU. YD. FILL
10.27	49.39	23.36	26.24
73.82	45.09	125.24	79.80
76.47	50.67	301.80	199.31
86.50	56.95	324.70	207.33
TOTAL		775.10	512.68

Drawn By: HKD/BDL
Checked By: FTO
Date: 2/13/2012
Revised: N/A
HORIZONTAL & VERTICAL SCALE IN FEET

FULTON COUNTY ROAD T (CO. RD. 7 TO S.R. 64)
CROSS SECTIONS ~ STA. 127+00 TO STA. 128+60

FULTON COUNTY ENGINEERING DEPT.
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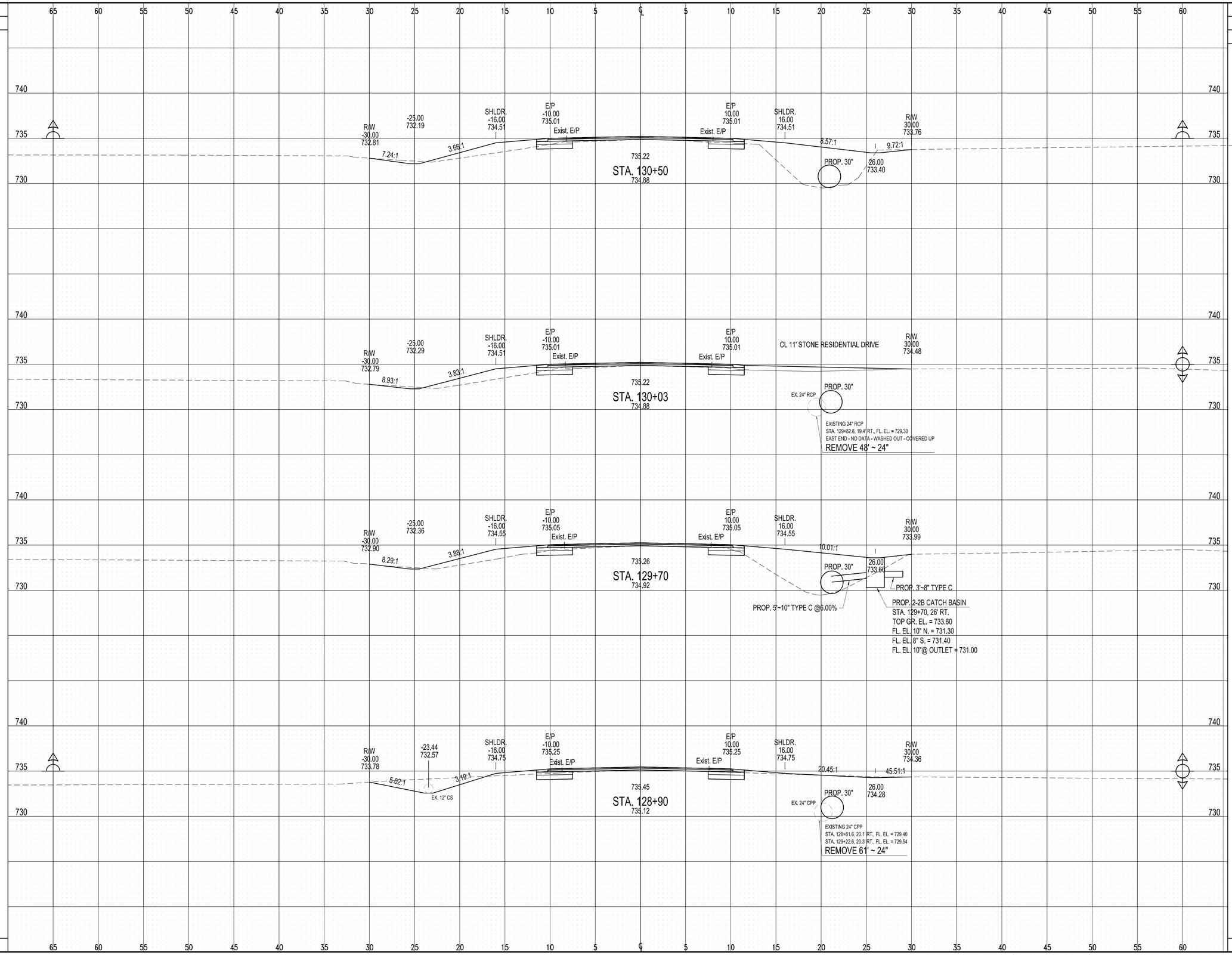

END AREA SQ. FT. CUT	END AREA SQ. FT. FILL	VOLUME CU. YD. CUT	VOLUME CU. YD. FILL
6.66	50.44	10.96	56.52
5.93	14.50	6.89	45.52
5.34	59.99	33.71	93.58
17.41	3.18	15.37	29.21
TOTAL		66.93	224.83

Drawn By: HKD/BDL
Checked By: FTO
Date: 2/13/2012
Revised: N/A

HORIZONTAL & VERTICAL SCALE IN FEET
10 5 0 5 10

FULTON COUNTY ROAD T (CO. RD. 7 TO S.R. 64)
CROSS SECTIONS ~ STA. 128+90 TO STA. 130+50

FULTON COUNTY ENGINEERING DEPT.
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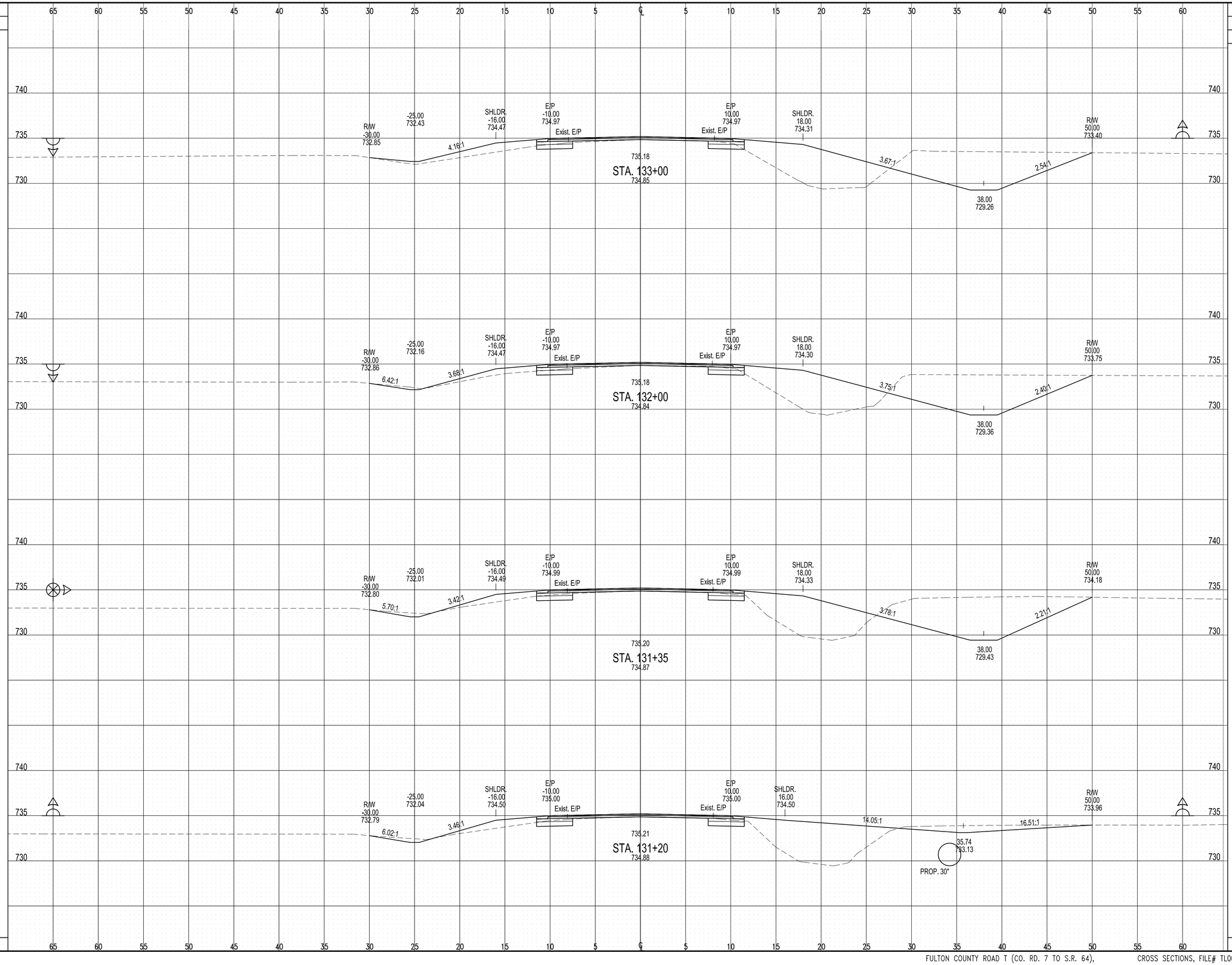

END AREA SQ. FT. CUT	END AREA SQ. FT. FILL	VOLUME CU. YD. CUT	VOLUME CU. YD. FILL
64.80	58.27	250.52	203.95
70.48	51.86	178.78	121.66
78.04	49.21	138.79	29.40
16.33	56.63	29.81	26.22
TOTAL		485.33	493.80

Drawn By: HKD/BDL
Checked By: FTO
Date: 2/13/2012
Revised: N/A
HORIZONTAL & VERTICAL SCALE IN FEET

FULTON COUNTY ROAD T (CO. RD. 7 TO S.R. 64)
CROSS SECTIONS ~ STA. 131+20 TO STA. 133+00

FULTON COUNTY ENGINEERING DEPT.
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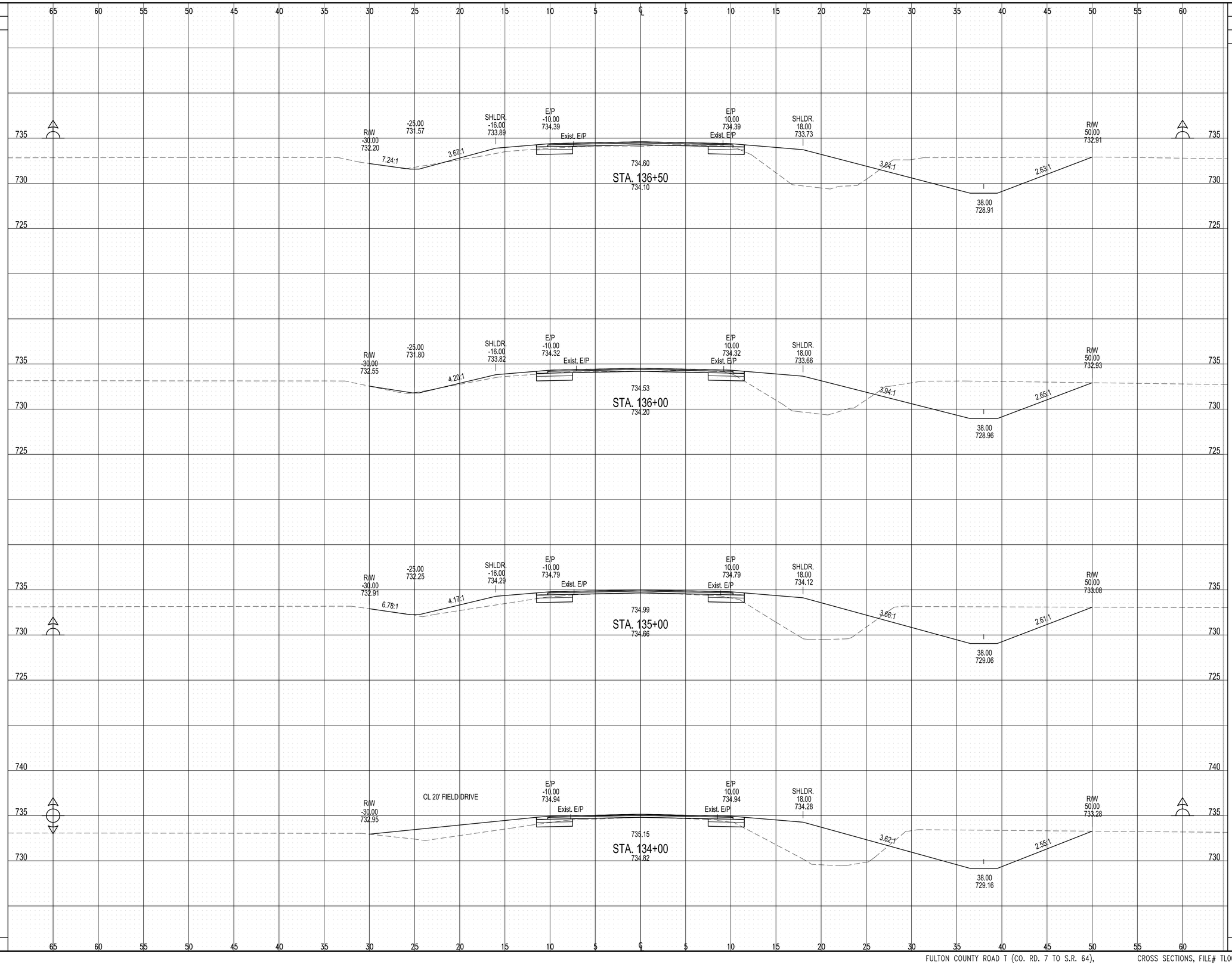

END AREA SQ. FT. CUT	END AREA SQ. FT. FILL	VOLUME CU. YD. CUT	VOLUME CU. YD. FILL
64.10	45.04	123.32	79.79
69.09	41.13	247.24	173.35
64.42	52.48	238.15	205.42
64.18	58.45	238.84	216.15
TOTAL		847.55	674.71

Drawn By: HKD/BDL
Checked By: FTO
Date: 2/13/2012
Revised: N/A
Revised: N/A

HORIZONTAL & VERTICAL SCALE IN FEET
10 5 0 5 10

FULTON COUNTY ROAD T (CO. RD. 7 TO S.R. 64)
CROSS SECTIONS ~ STA. 134+00 TO STA. 136+50

FULTON COUNTY ENGINEERING DEPT.
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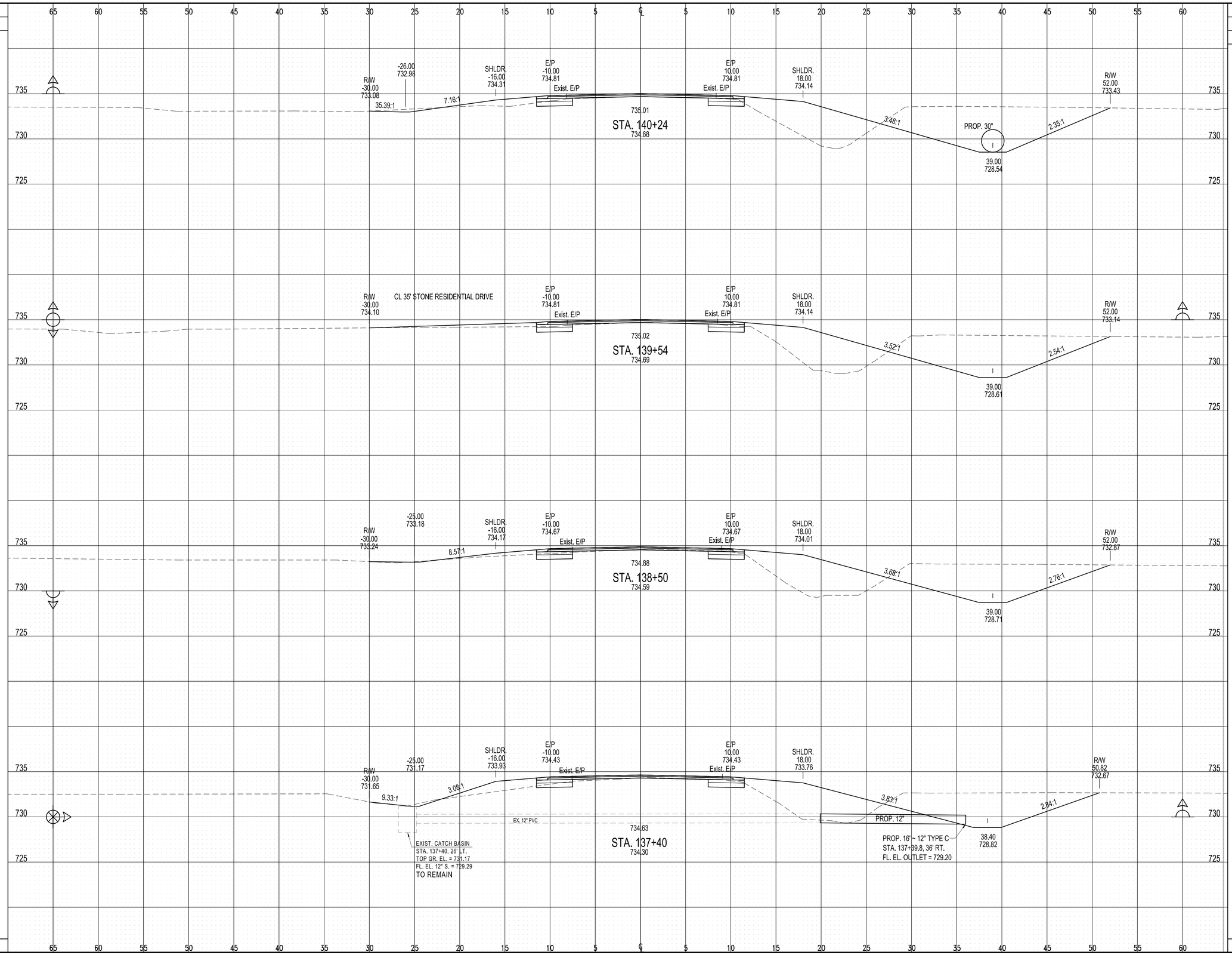

END AREA SQ. FT. CUT	END AREA SQ. FT. FILL	VOLUME CU. YD. CUT	VOLUME CU. YD. FILL
86.03	46.88	212.12	116.81
77.61	43.23	286.87	172.36
71.35	46.26	271.86	191.85
62.11	47.92	210.36	154.93
TOTAL		981.21	635.95

Drawn By: HKD/BDL
Checked By: FTO
Date: 2/13/2012
Revised: N/A
Revised: N/A

HORIZONTAL & VERTICAL SCALE IN FEET
10 5 0 5

FULTON COUNTY ROAD T (CO. RD. 7 TO S.R. 64)
CROSS SECTIONS ~ STA. 137+40 TO STA. 140+24

FULTON COUNTY ENGINEERING DEPT.
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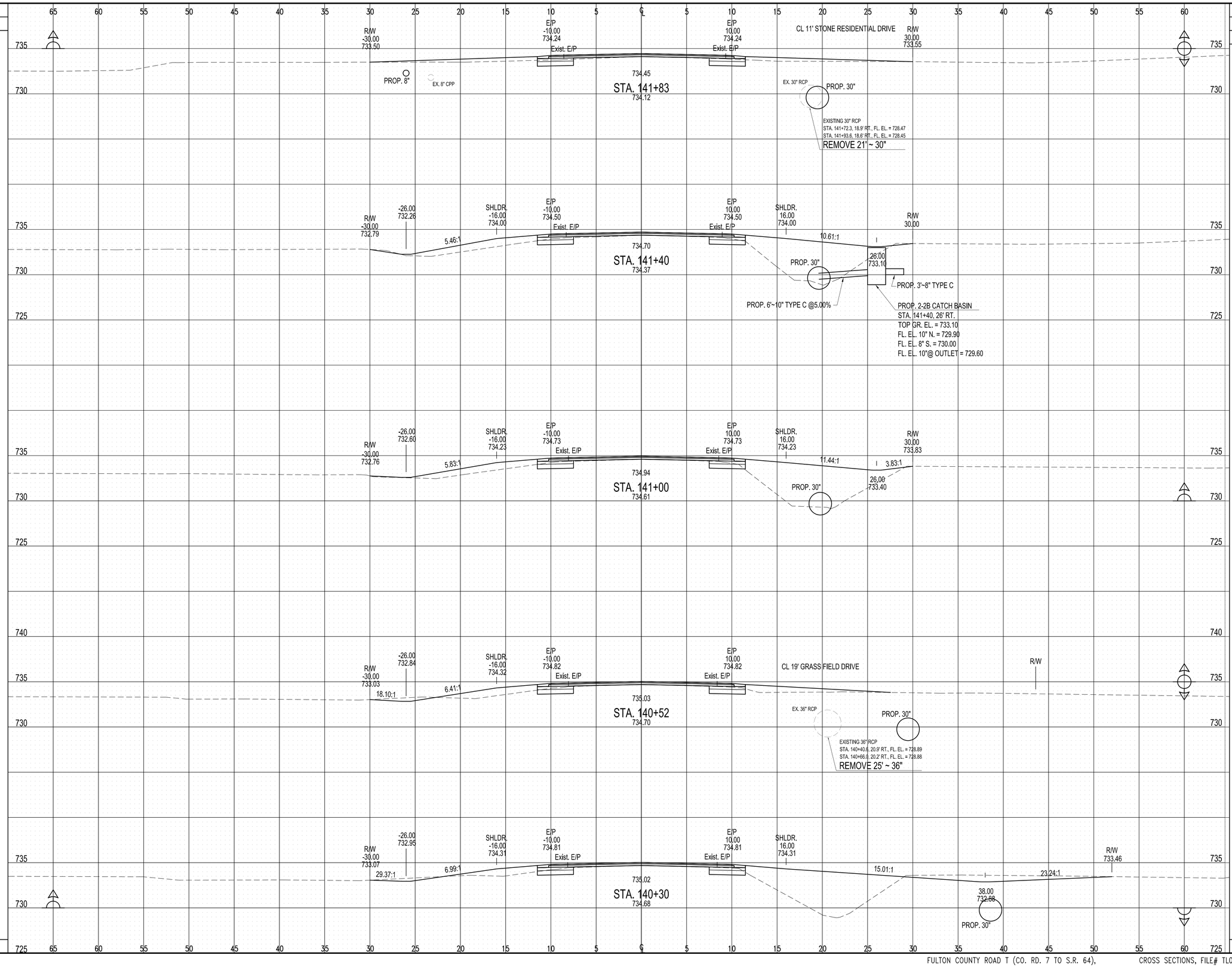

END AREA SQ. FT. CUT	END AREA SQ. FT. FILL	VOLUME CU. YD. CUT	VOLUME CU. YD. FILL
5.65	3.57	8.62	48.21
5.18	56.98	7.60	87.93
5.08	61.72	11.41	66.25
7.76	12.81	9.88	28.59
16.49	57.38	11.39	11.58
TOTAL		48.90	242.56

Drawn By: HKD/BDL
Checked By: FTO
Date: 2/13/2012
Revised: N/A
HORIZONTAL & VERTICAL SCALE IN FEET
10 5 0 5

FULTON COUNTY ROAD T (CO. RD. 7 TO S.R. 64)
CROSS SECTIONS ~ STA. 140+30 TO STA. 141+83

FULTON COUNTY ENGINEERING DEPT.
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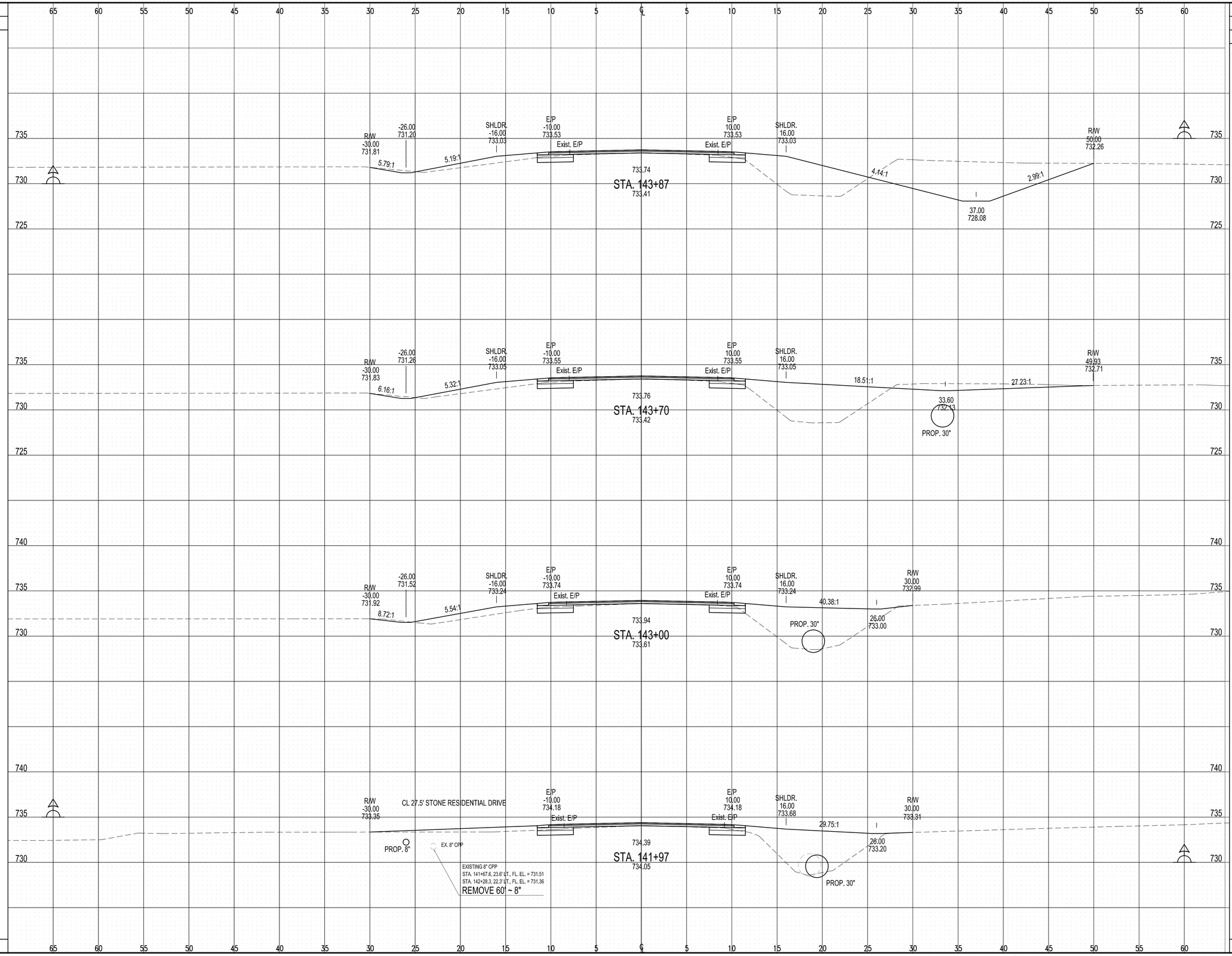

END AREA SQ. FT. CUT	END AREA SQ. FT. FILL	VOLUME CU. YD. CUT	VOLUME CU. YD. FILL
69.43	44.45	26.95	31.17
16.18	54.55		147.71
		28.34	
5.68	59.40		205.87
		20.71	
5.18	48.53		13.51
		2.81	
TOTAL		78.81	398.26

Drawn By: HKD/BDL
Checked By: FTO
Date: 2/13/2012
Revised: N/A N/A

HORIZONTAL & VERTICAL SCALE IN FEET
10 5 0 5

FULTON COUNTY ROAD T (CO. RD. 7 TO S.R. 64)
CROSS SECTIONS ~ STA. 141+97 TO STA. 143+87

FULTON COUNTY ENGINEERING DEPT.
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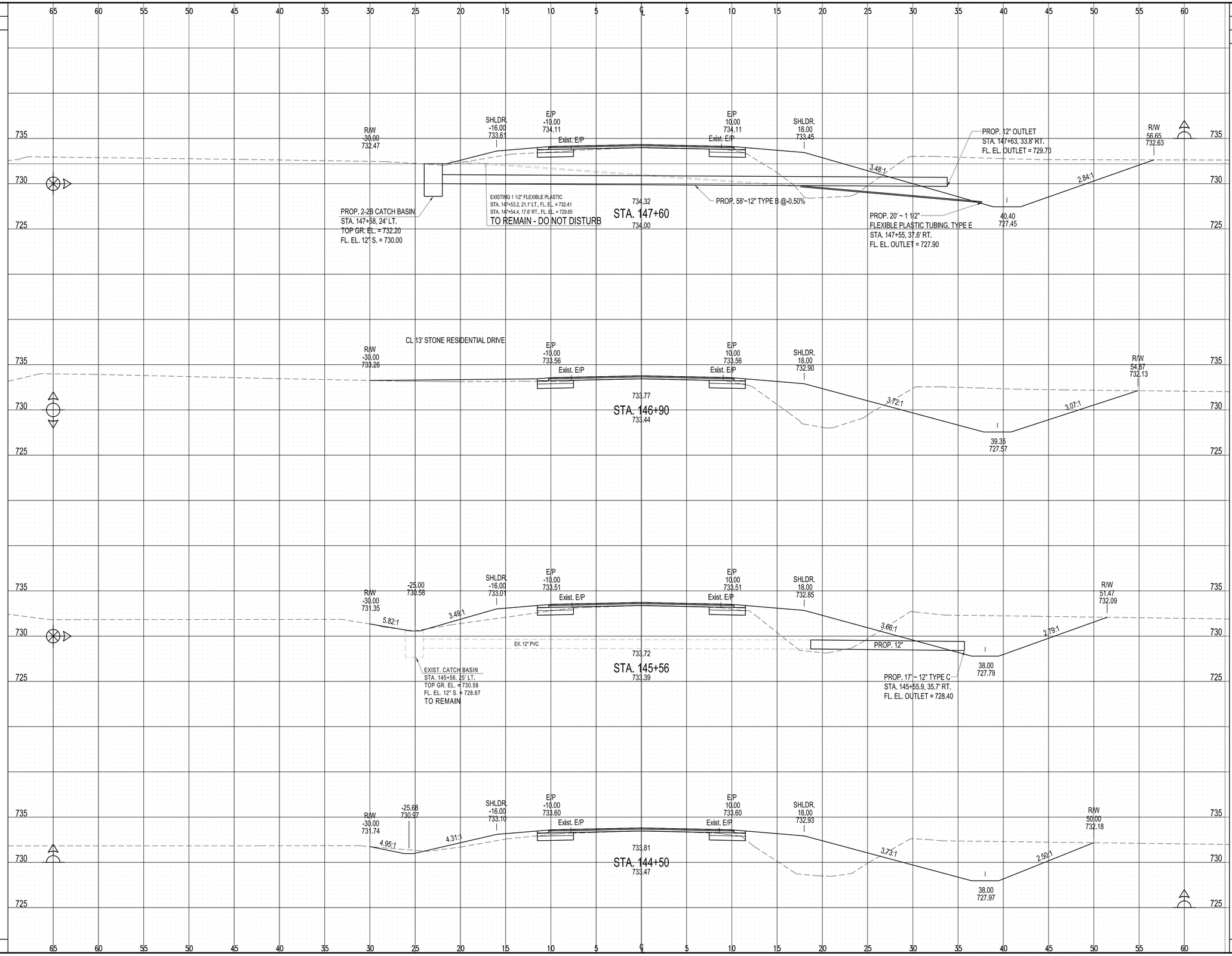

END AREA SQ. FT. CUT	END AREA SQ. FT. FILL	VOLUME CU. YD. CUT	VOLUME CU. YD. FILL
103.26	48.49	248.98	117.60
88.81	42.23	407.58	227.17
75.43	49.32	288.14	192.18
71.35	48.58	164.24	108.54
TOTAL		1108.94	645.49

Drawn By: HKD/BDL
Checked By: FTO
Date: 2/13/2012
Revised: N/A N/A

HORIZONTAL & VERTICAL SCALE IN FEET
10 5 0 5

FULTON COUNTY ROAD T (CO. RD. 7 TO S.R. 64)
CROSS SECTIONS ~ STA. 144+50 TO STA. 147+60

FULTON COUNTY ENGINEERING DEPT.
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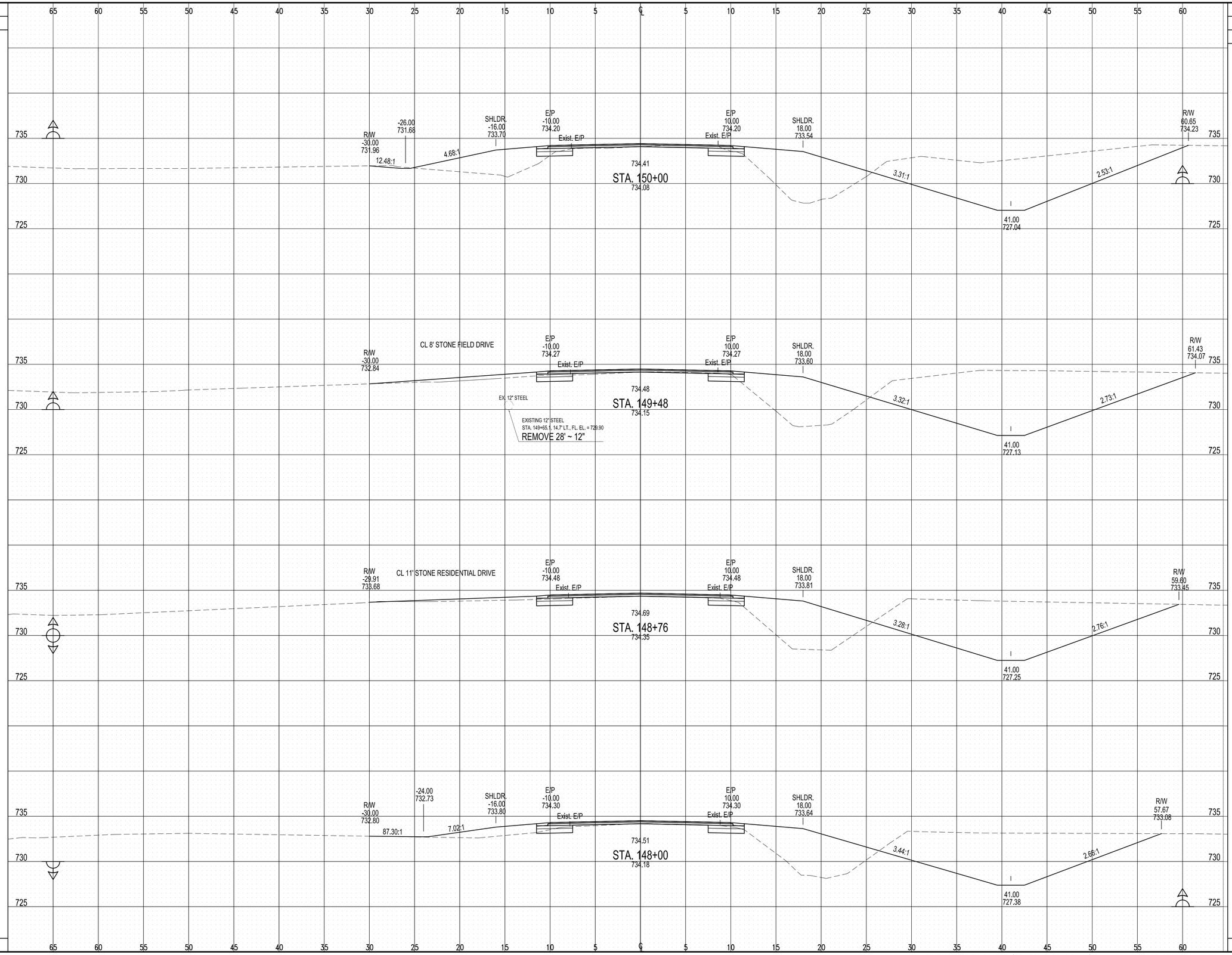

END AREA SQ. FT. CUT	END AREA SQ. FT. FILL	VOLUME CU. YD. CUT	VOLUME CU. YD. FILL
125.59	74.45	272.63	123.04
157.53	53.32	396.41	139.55
139.78	51.34	357.70	153.88
114.37	57.99	161.21	78.87
TOTAL		1187.95	495.34

Drawn By: HKD/BDL
Checked By: FTO
Date: 2/13/2012
Revised: N/A N/A

HORIZONTAL & VERTICAL SCALE IN FEET
10 5 0 5

FULTON COUNTY ROAD T (CO. RD. 7 TO S.R. 64)
CROSS SECTIONS ~ STA. 148+00 TO STA. 150+00

FULTON COUNTY ENGINEERING DEPT.
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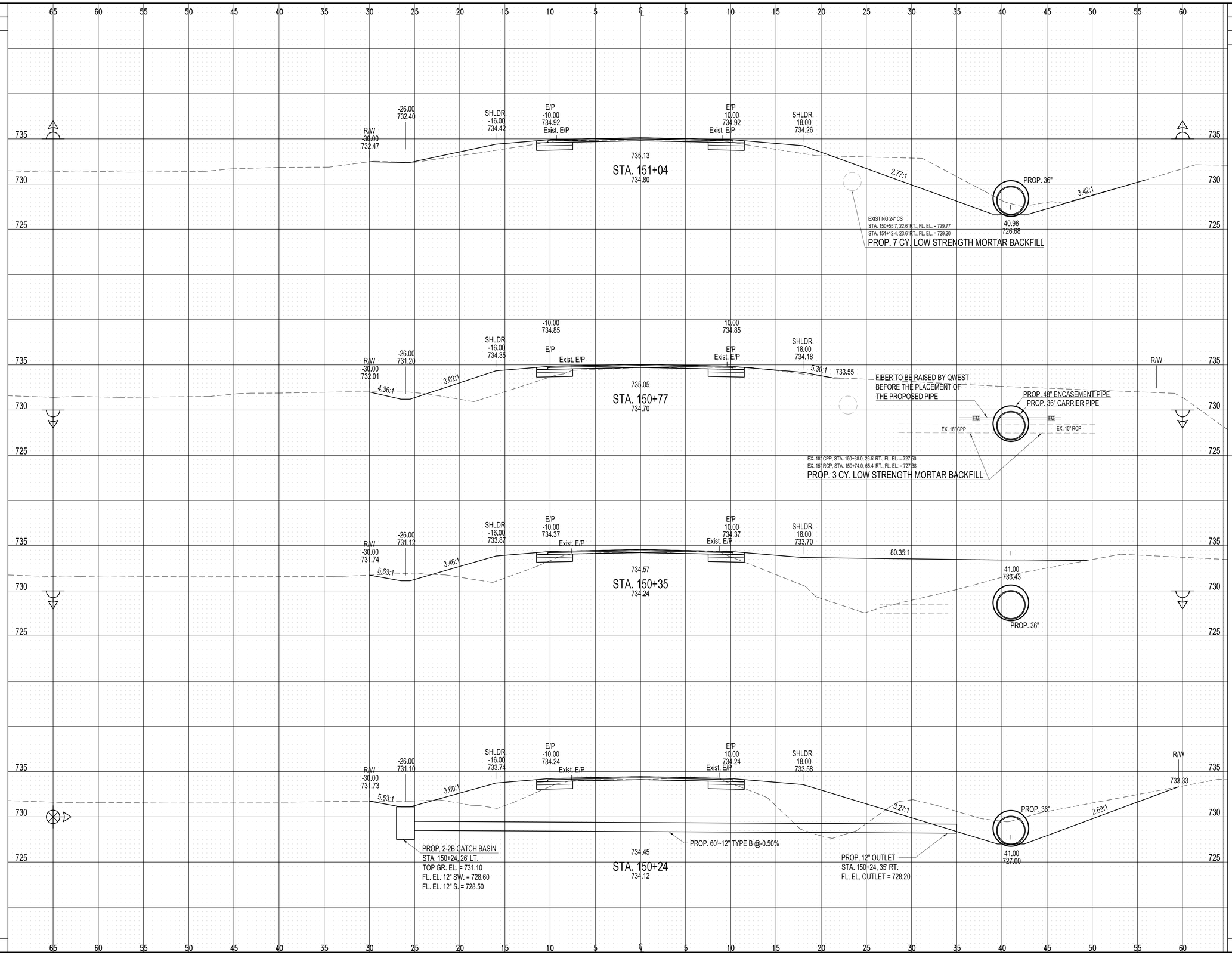

END AREA SQ. FT. CUT	END AREA SQ. FT. FILL	VOLUME CU. YD. CUT	VOLUME CU. YD. FILL
54.18	17.90		
		62.37	120.39
8.19	102.49		
		4.71	66.20
8.77	135.84		
		15.71	41.75
68.36	69.13		
		86.20	63.82
TOTAL		168.99	292.16

Drawn By: HKD/BDL
Checked By: FTO
Date: 2/13/2012
Revised: N/A
Revised: N/A

HORIZONTAL & VERTICAL SCALE IN FEET
10 5 0 5

FULTON COUNTY ROAD T (CO. RD. 7 TO S.R. 64)
CROSS SECTIONS ~ STA. 150+24 TO STA. 151+04

FULTON COUNTY ENGINEERING DEPT.
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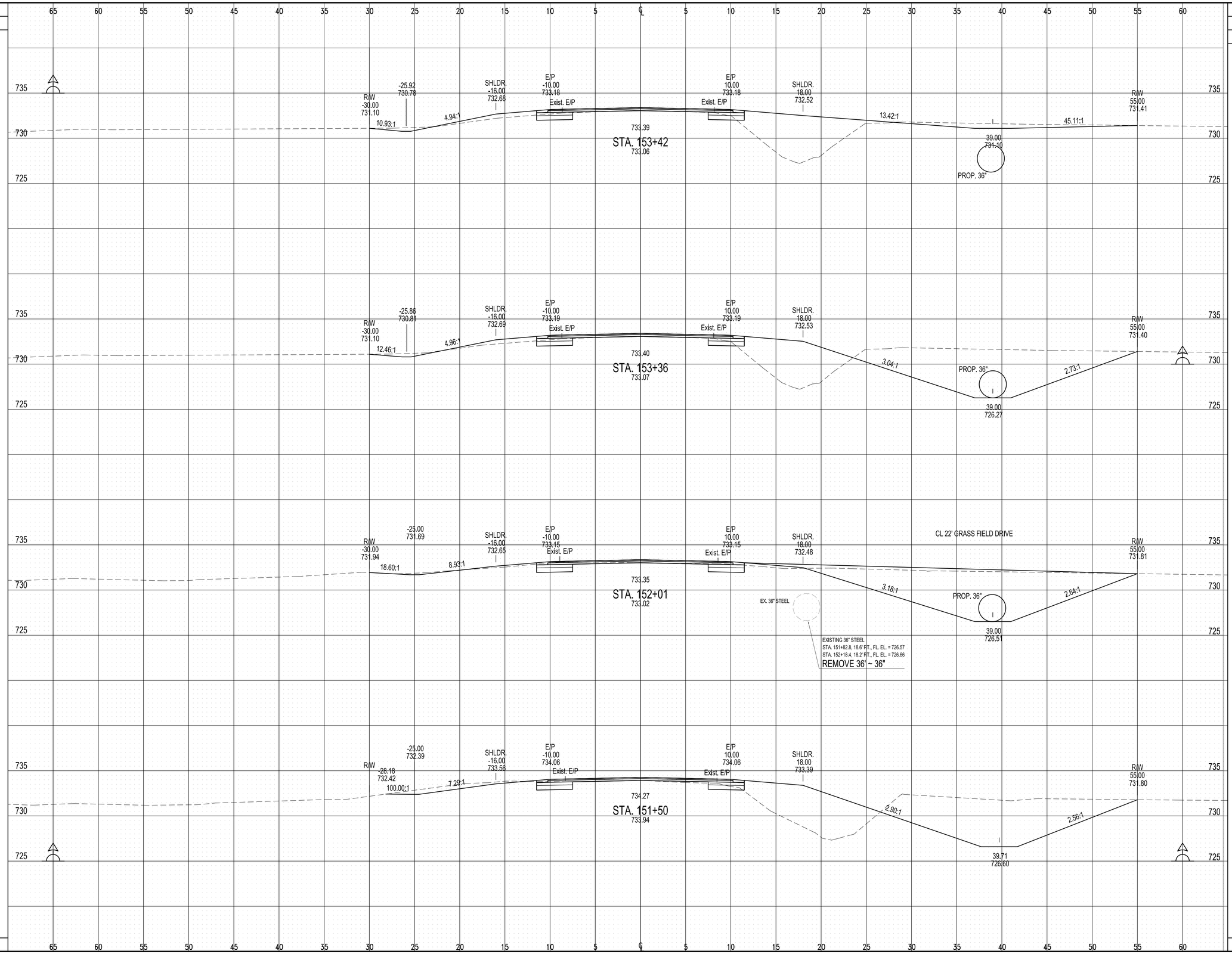

END AREA SQ. FT. CUT	END AREA SQ. FT. FILL	VOLUME CU. YD. CUT	VOLUME CU. YD. FILL
14.31	51.27		
		13.56	10.72
107.74	45.22		
		576.61	119.57
122.90	2.60		
		-92.10	-40.44
105.24	51.99		
		215.47	51.56
		135.80	59.54
TOTAL		941.44	241.39

Drawn By: HKD/BDL
Checked By: FTO
Date: 2/13/2012
Revised: N/A

HORIZONTAL & VERTICAL SCALE IN FEET
10 5 0 5

FULTON COUNTY ROAD T (CO. RD. 7 TO S.R. 64)
CROSS SECTIONS ~ STA. 151+50 TO STA. 153+42

FULTON COUNTY ENGINEERING DEPT.
FRANK T. SCHNEIDER, P.E., P.S. COUNTY ENGINEER
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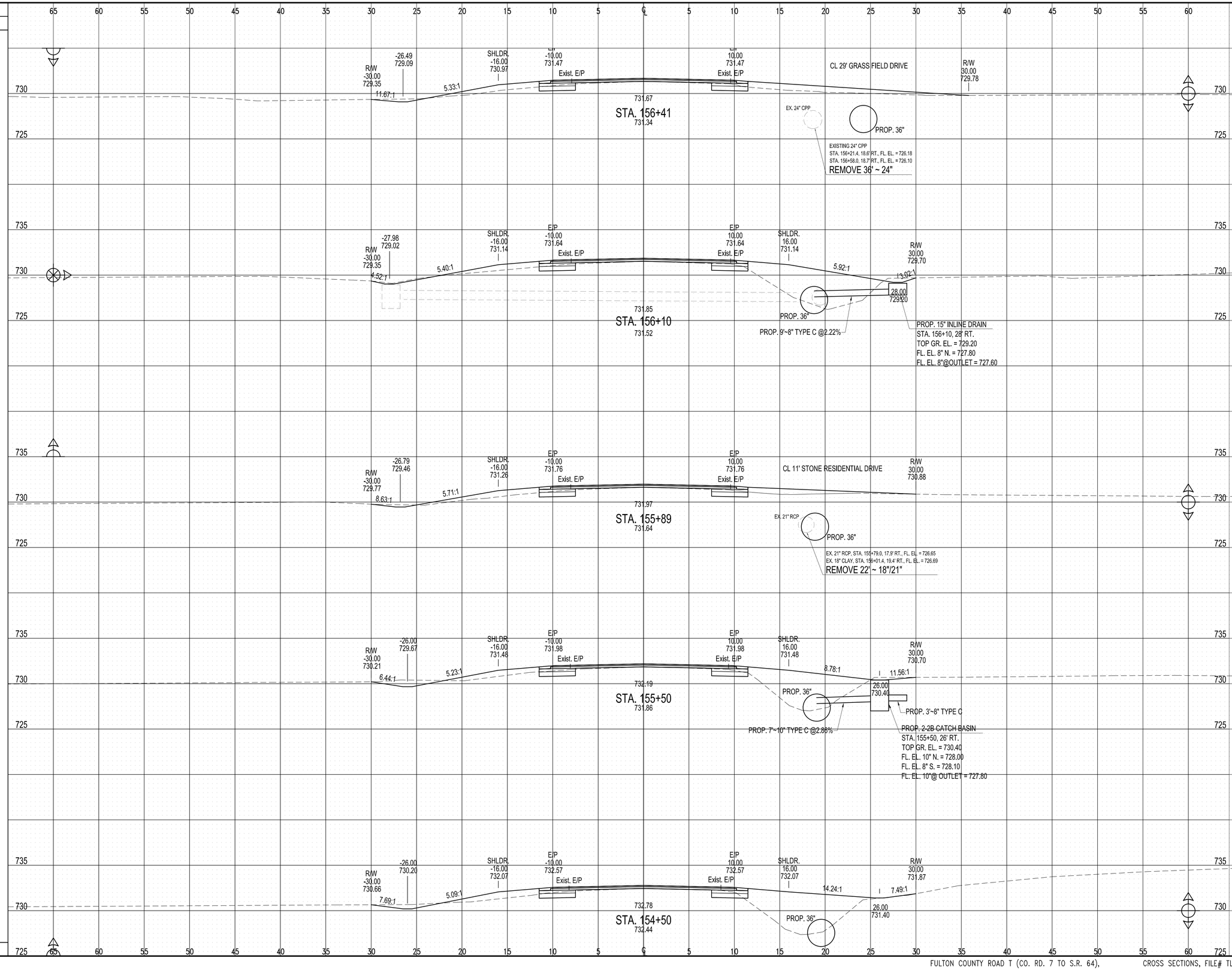
File: G:\Projects\Roads\County\Road T (7 to SR64)\dwgs\cross section master.dwg – Feb 13, 2012 – 4:09pm – Fulton County Engineer's Office



END AREA SQ. FT. CUT	END AREA SQ. FT. FILL	VOLUME CU. YD. CUT	VOLUME CU. YD. FILL
6.11	14.94	7.44	35.65
6.86	47.16	5.18	22.41
6.48	10.47	11.42	37.32
9.34	41.20	29.93	161.89
6.82	46.21	42.27	194.96
TOTAL		96.24	452.23

Drawn By: HKD/BDL
Checked By: FTO
Date: 2/13/2012
Revised: N/A N/A

HORIZONTAL & VERTICAL SCALE IN FEET
10 5 0 5

FULTON COUNTY ROAD T (CO. RD. 7 TO S.R. 64)
CROSS SECTIONS ~ STA. 154+50 TO STA. 156+41

FULTON COUNTY ENGINEERING DEPT.
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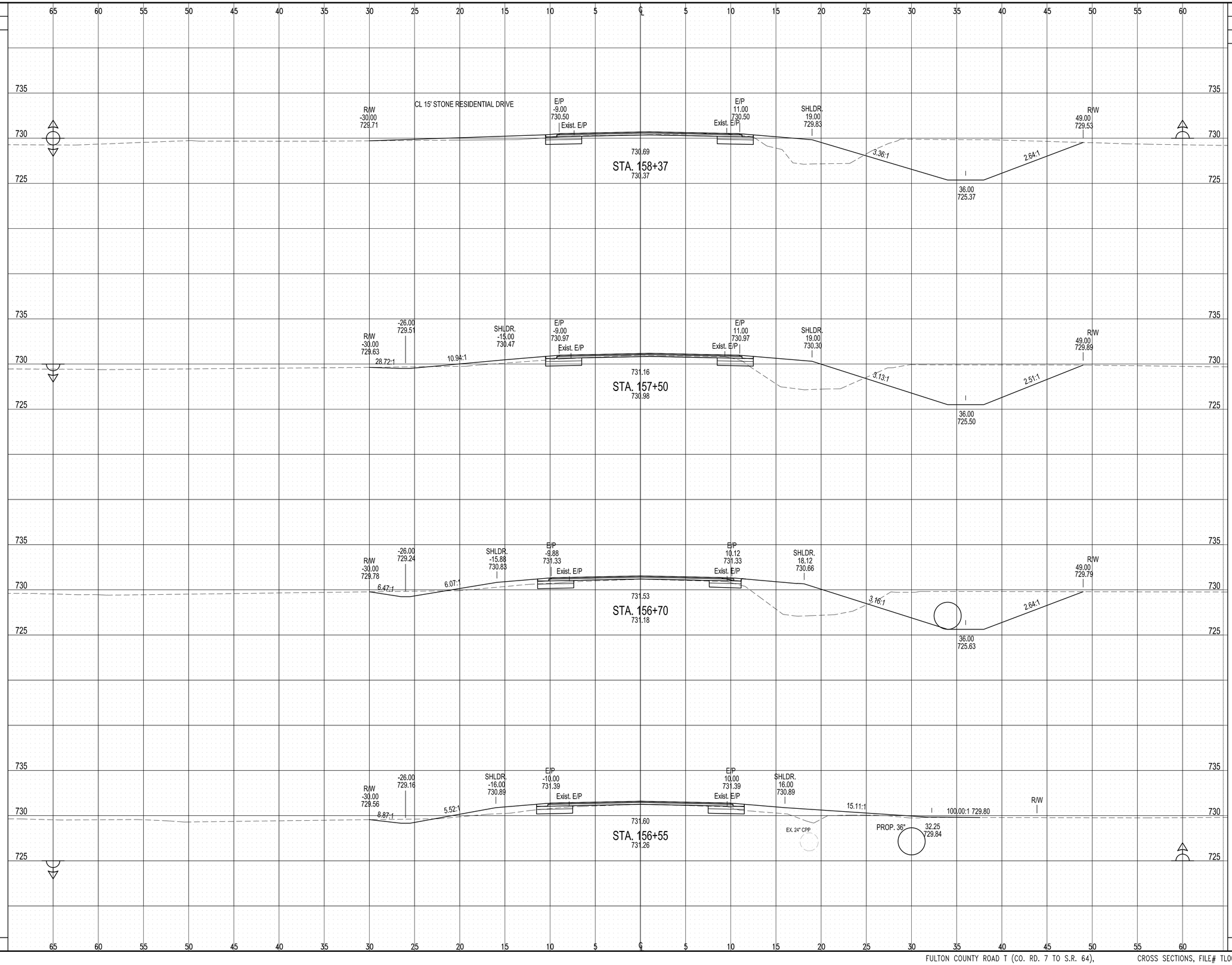

END AREA SQ. FT.		VOLUME CU. YD.	
CUT	FILL	CUT	FILL
77.26	22.84	243.32	89.24
73.76	32.55	212.55	103.46
69.70	37.29	21.26	15.11
6.84	17.12	3.36	8.31
TOTAL		480.49	216.12

Drawn By: HKD/BDL
Checked By: FTO
Date: 2/13/2012
Revised: N/A N/A

HORIZONTAL & VERTICAL SCALE IN FEET
10 5 0 5

FULTON COUNTY ROAD T (CO. RD. 7 TO S.R. 64)
CROSS SECTIONS ~ STA. 156+55 TO STA. 158+37

FULTON COUNTY ENGINEERING DEPT.
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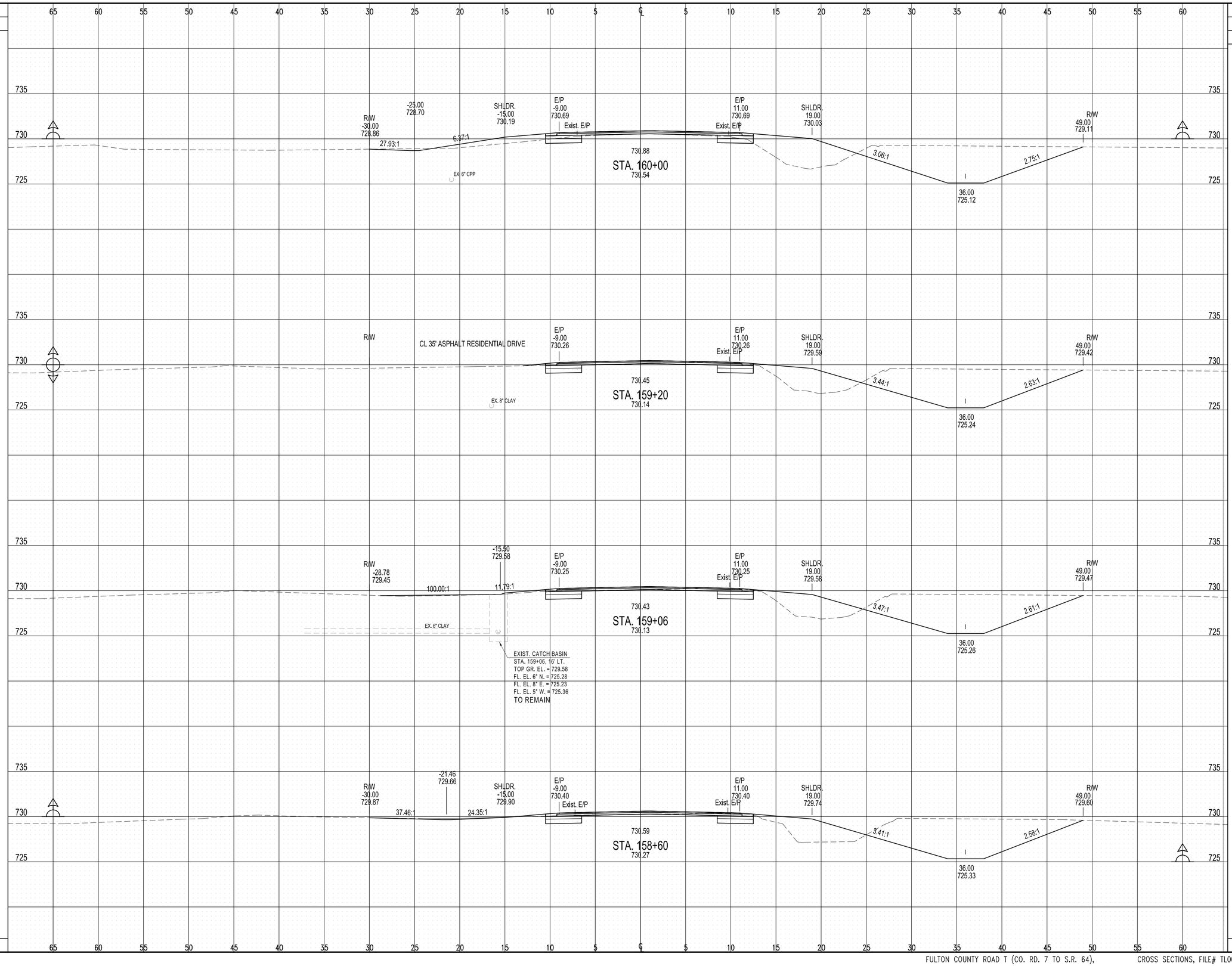

END AREA SQ. FT. CUT	END AREA SQ. FT. FILL	VOLUME CU. YD. CUT	VOLUME CU. YD. FILL
68.81	33.02	217.37	78.23
77.91	19.79	39.94	10.31
76.14	19.98	130.54	32.90
77.09	18.64	65.74	17.67
TOTAL		453.59	139.11

Drawn By: HKD/BDL
Checked By: FTO
Date: 2/13/2012
Revised: N/A
Revised: N/A

HORIZONTAL & VERTICAL SCALE IN FEET
10 5 0 5

FULTON COUNTY ROAD T (CO. RD. 7 TO S.R. 64)
CROSS SECTIONS ~ STA. 158+60 TO STA. 160+00

FULTON COUNTY ENGINEERING DEPT.
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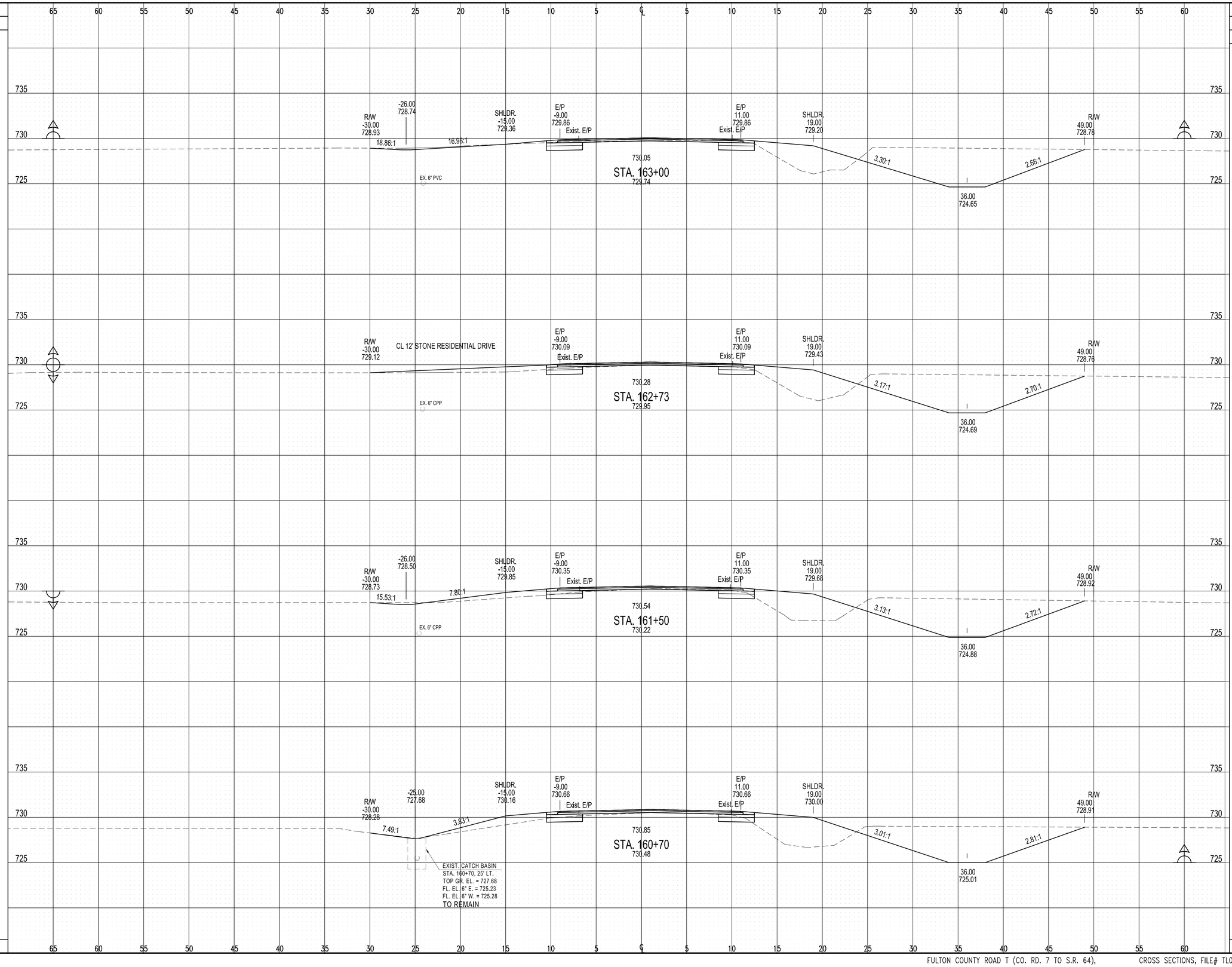

END AREA SQ. FT.		VOLUME CU. YD.	
CUT	FILL	CUT	FILL
78.08	21.89		
		75.13	24.69
72.19	27.48		
		331.89	131.80
73.52	30.38		
		205.89	99.20
65.45	36.58		
		174.05	90.21
TOTAL		786.96	345.90

Drawn By: HKD/BDL
Checked By: FTO
Date: 2/13/2012
Revised: N/A
Revised: N/A

HORIZONTAL & VERTICAL SCALE IN FEET
10 5 0 5

FULTON COUNTY ROAD T (CO. RD. 7 TO S.R. 64)
CROSS SECTIONS ~ STA. 160+70 TO STA. 163+00

FULTON COUNTY ENGINEERING DEPT.
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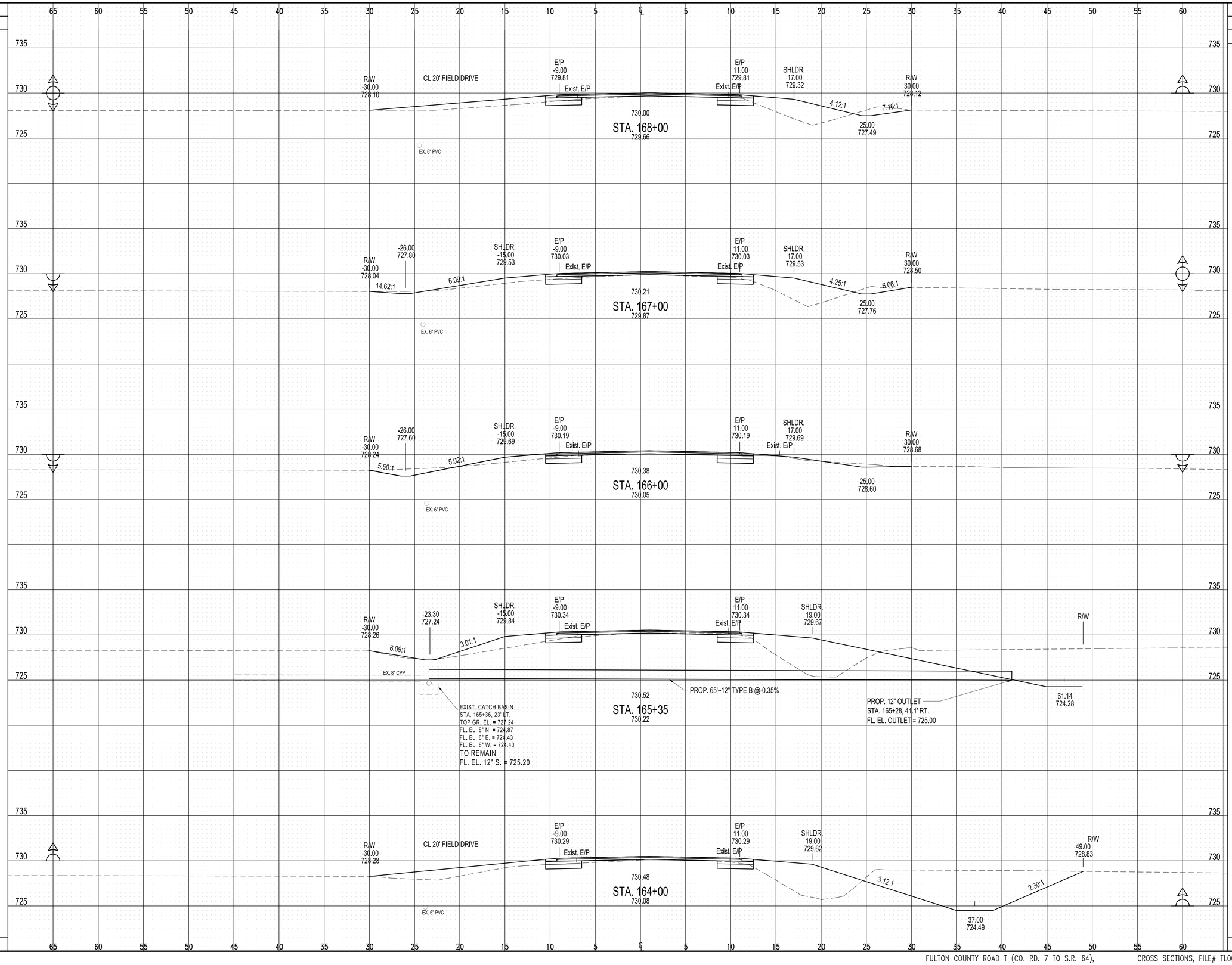
File: G:\Projects\Roads\County\Road T (7 to SR64)\dwgs\cross section master.dwg – Feb 13, 2012 – 8:45am – Fulton County Engineer's Office



END AREA SQ. FT.		VOLUME CU. YD.	
CUT	FILL	CUT	FILL
8.62	24.27		90.22
		31.30	
8.28	24.45		54.39
		37.46	
11.95	4.92		0.0
		0.0	
101.02	49.66		218.66
		437.62	
74.03	37.80		110.54
		281.68	
TOTAL		896.87	489.54

Drawn By: HKD/BDL
Checked By: FTO
Date: 2/13/2012
Revised: N/A N/A

HORIZONTAL & VERTICAL SCALE IN FEET
10 5 0 5

FULTON COUNTY ROAD T (CO. RD. 7 TO S.R. 64)
CROSS SECTIONS ~ STA. 164+00 TO STA. 168+00

FULTON COUNTY ENGINEERING DEPT.
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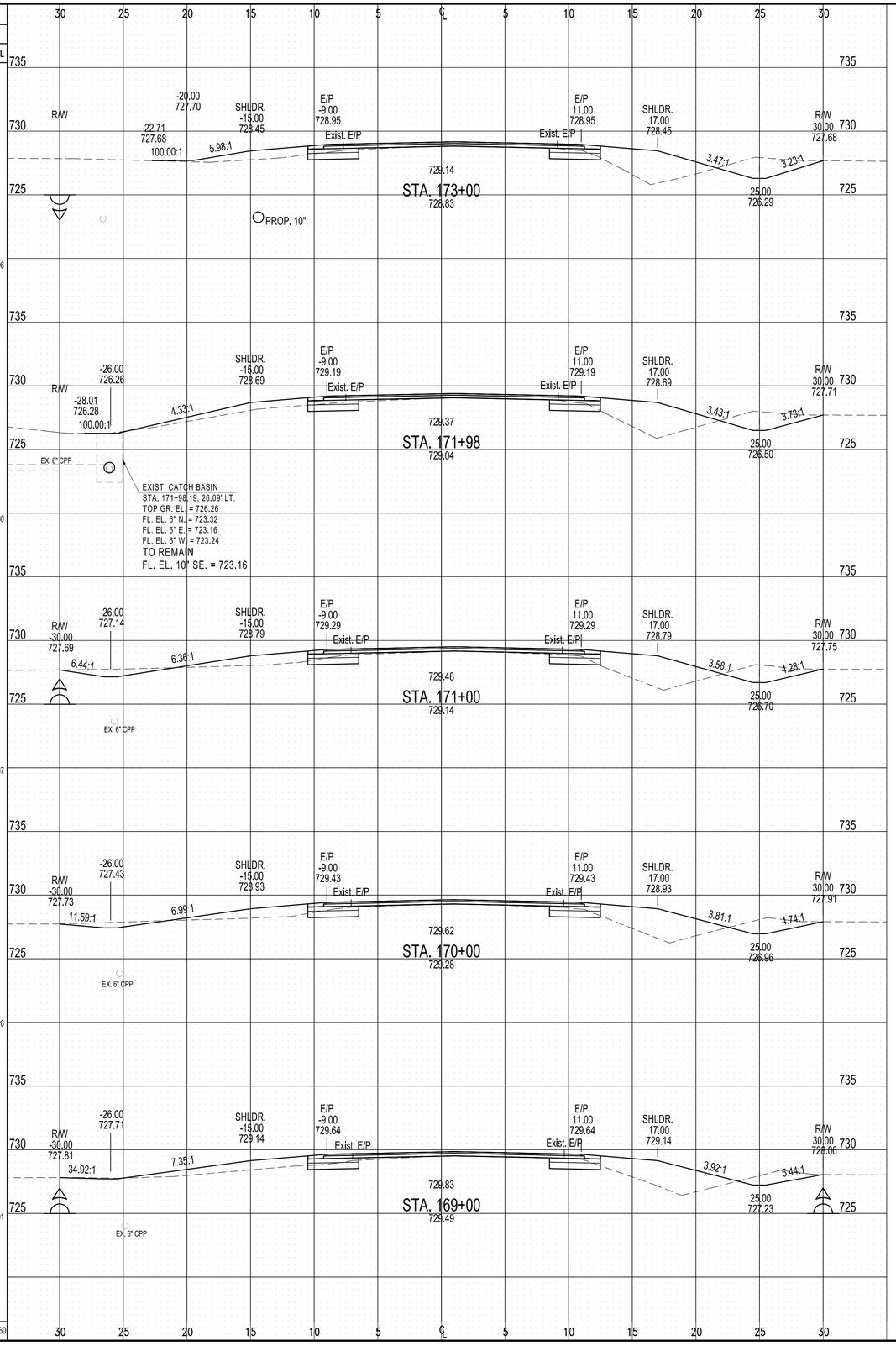
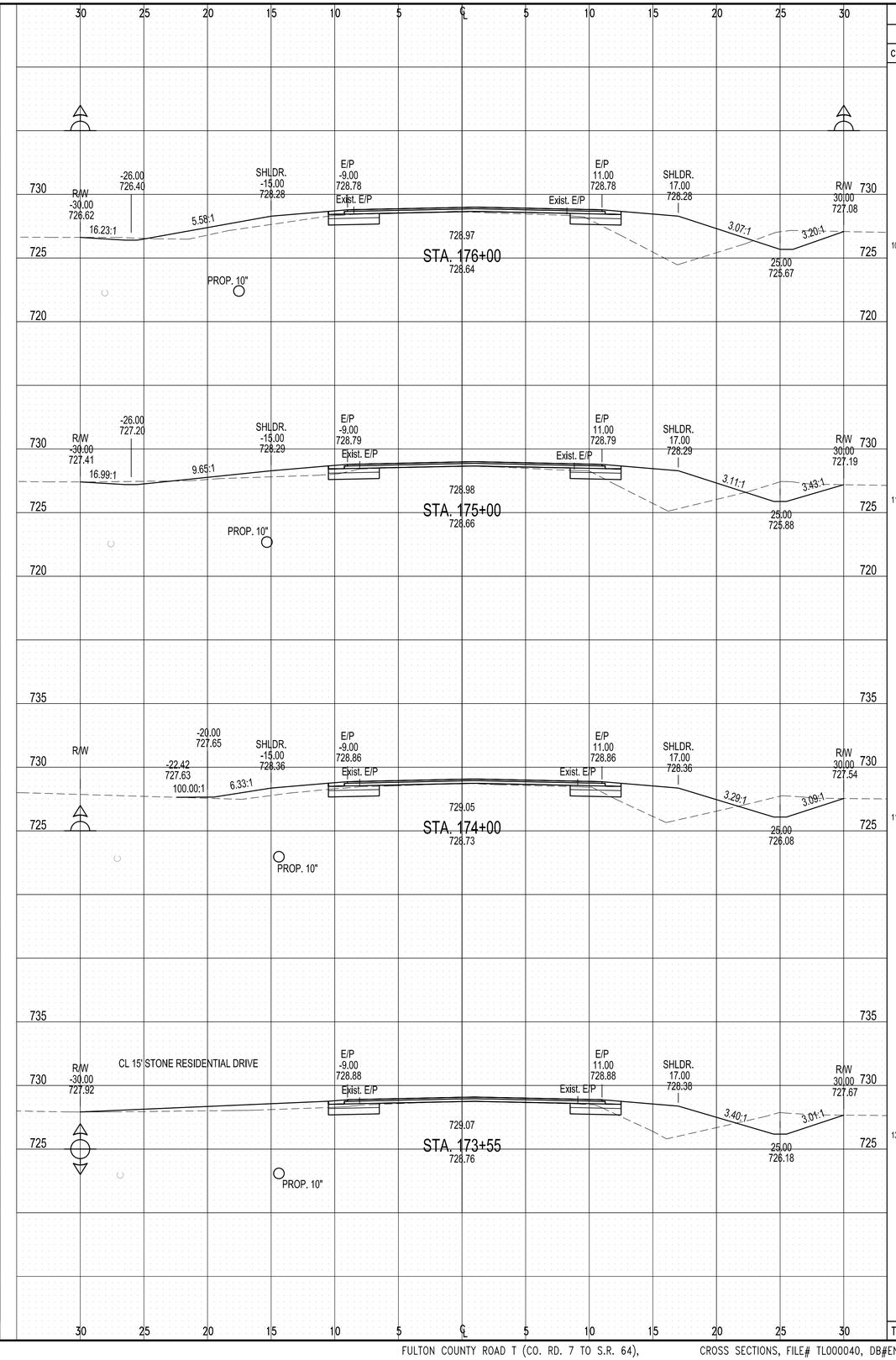
File: G:\Projects\Roads\County\Road T (7 to SR64)\dwgs\cross section master.dwg – Feb 14, 2012 – 9:19am – Fulton County Engineer's Office

END AREA SQ.FT. CUT	END AREA SQ.FT. FILL	VOLUME CU.YD. CUT	VOLUME CU.YD. FILL
12.35	20.38	44.88	79.96
11.41	21.95	44.57	79.60
13.15	21.91	45.57	80.87
11.46	21.76	37.46	83.26
8.77	23.20	32.20	87.91
TOTAL		204.68	411.60



END AREA SQ.FT. CUT	END AREA SQ.FT. FILL	VOLUME CU.YD. CUT	VOLUME CU.YD. FILL
10.68	32.87	40.67	107.48
11.28	25.17	42.93	86.22
11.90	21.39	21.33	32.03
13.69	17.05	26.52	38.12
TOTAL		131.45	263.85



Drawn By: HKD/BDL
Checked By: FTO
Date: 2/13/2012
Revised: N/A
N/A

VERTICAL SCALE IN FEET 10 5 0 5 10
HORIZONTAL SCALE IN FEET 20 10 0 10 20

FULTON COUNTY ROAD T (CO. RD. 7 TO S.R. 64)
CROSS SECTIONS ~ STA. 169+00 TO STA. 176+00

FULTON COUNTY ENGINEERING DEPT.
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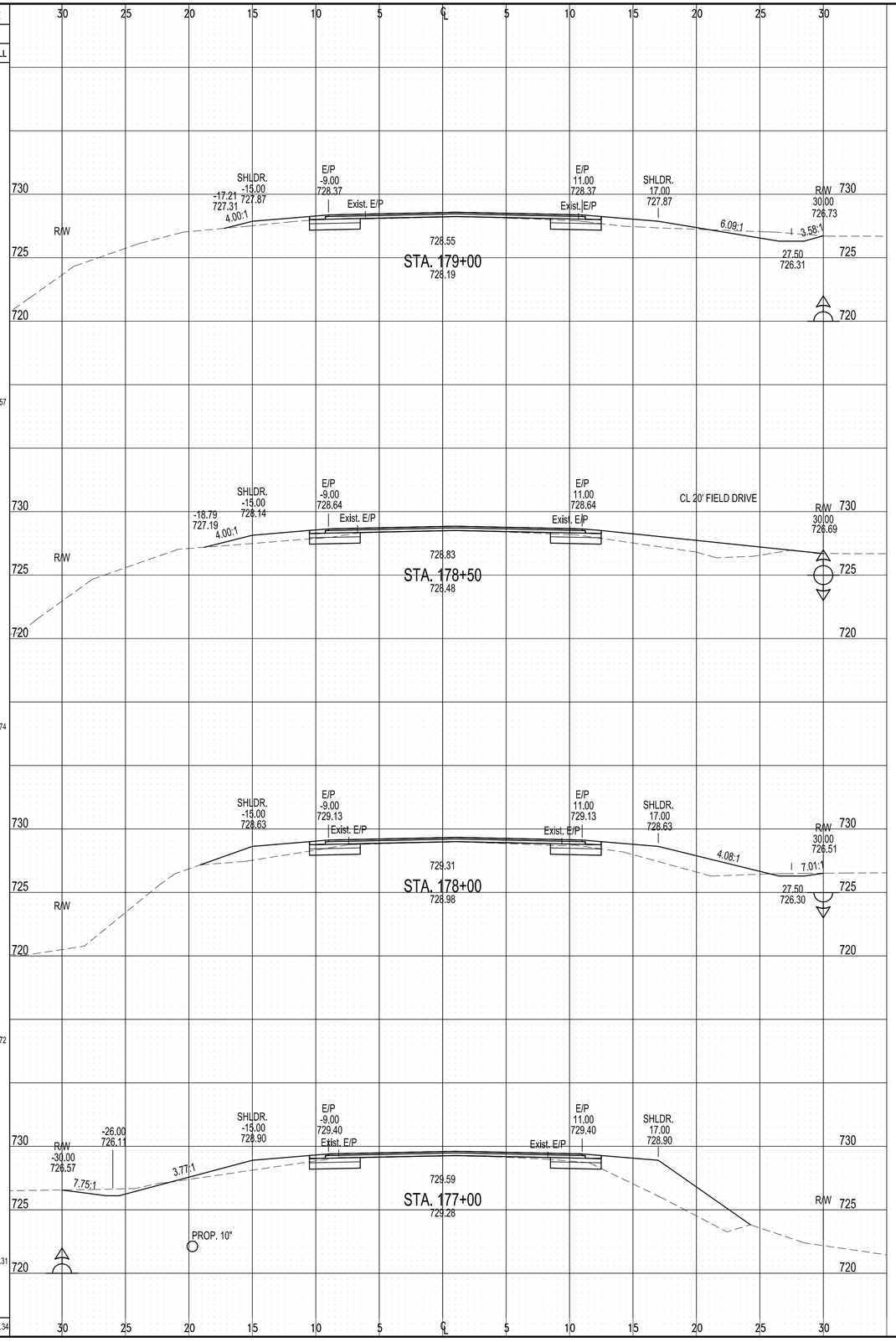
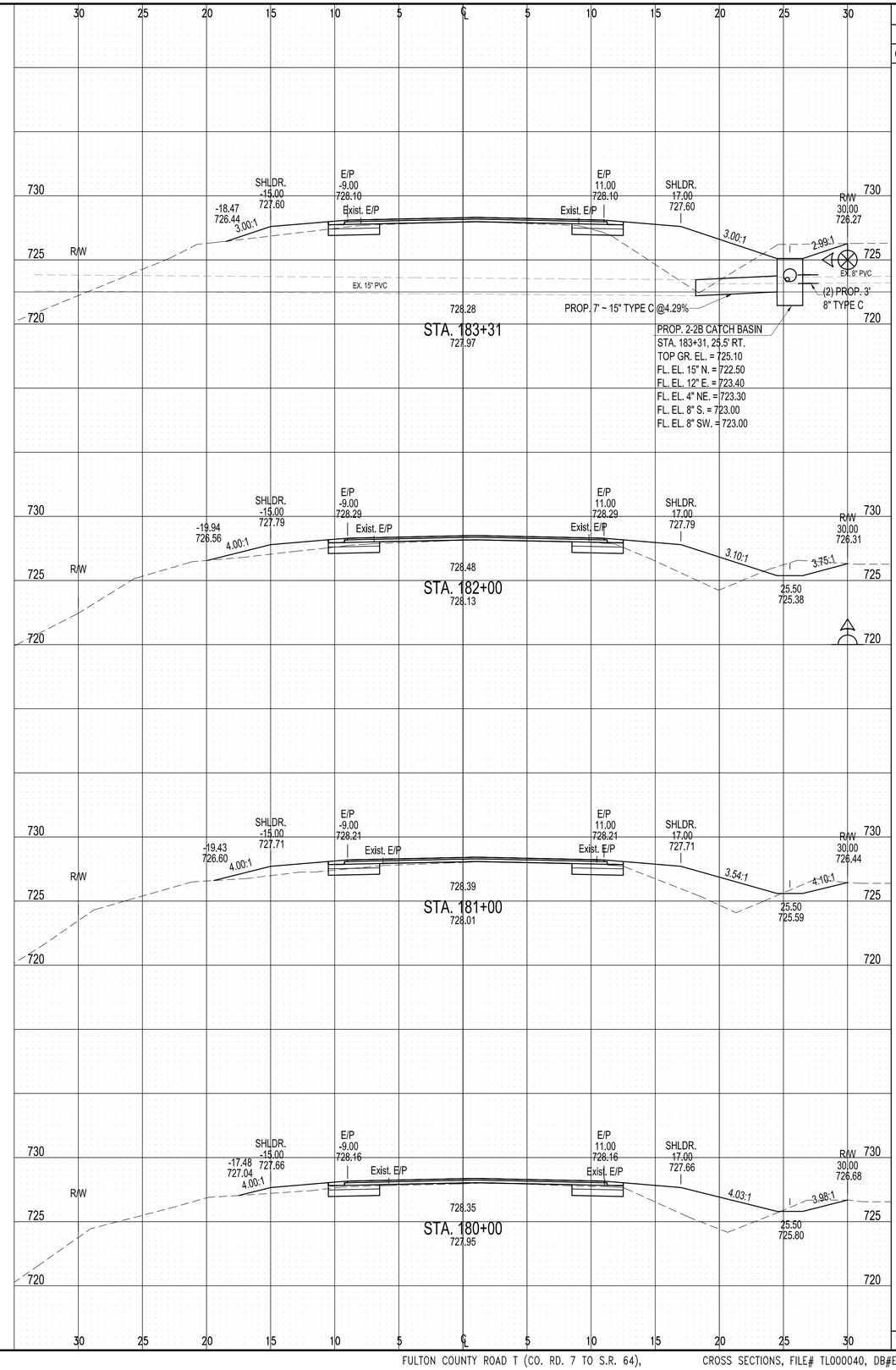
END AREA SQ.FT. CUT	END AREA SQ.FT. FILL	VOLUME CU.YD. CUT	VOLUME CU.YD. FILL
9.53	5.91		
		14.56	18.57
6.20	14.15		
		10.98	31.74
5.66	20.13		
		24.69	90.72
7.67	28.86		
		33.98	114.31
TOTAL		84.21	255.34





END AREA SQ.FT. CUT	END AREA SQ.FT. FILL	VOLUME CU.YD. CUT	VOLUME CU.YD. FILL
8.74	36.70		
		45.41	145.77
9.98	23.39		
		32.78	86.48
7.72	23.31		
		29.02	85.20
7.94	22.70		
		32.35	52.98
TOTAL		139.56	370.43

Drawn By: HKD/BDL
Checked By: FTO
Date: 2/13/2012
Revised: N/A
N/A

VERTICAL SCALE IN FEET 10 5 0 5 10
HORIZONTAL SCALE IN FEET 20 10 0 10 20

FULTON COUNTY ROAD T (CO. RD. 7 TO S.R. 64)
CROSS SECTIONS ~ STA. 177+00 TO STA. 183+31

FULTON COUNTY ENGINEERING DEPT.
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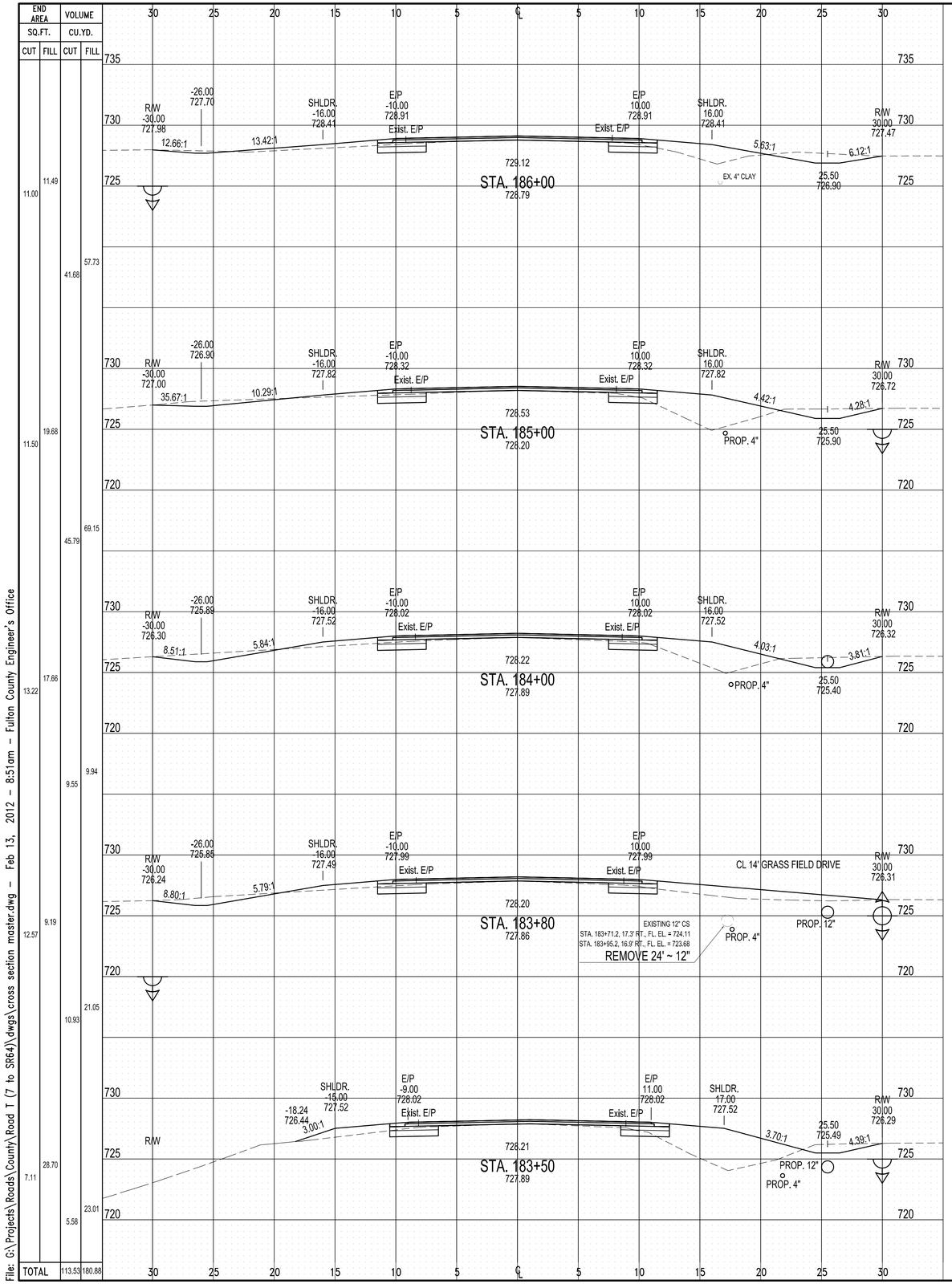
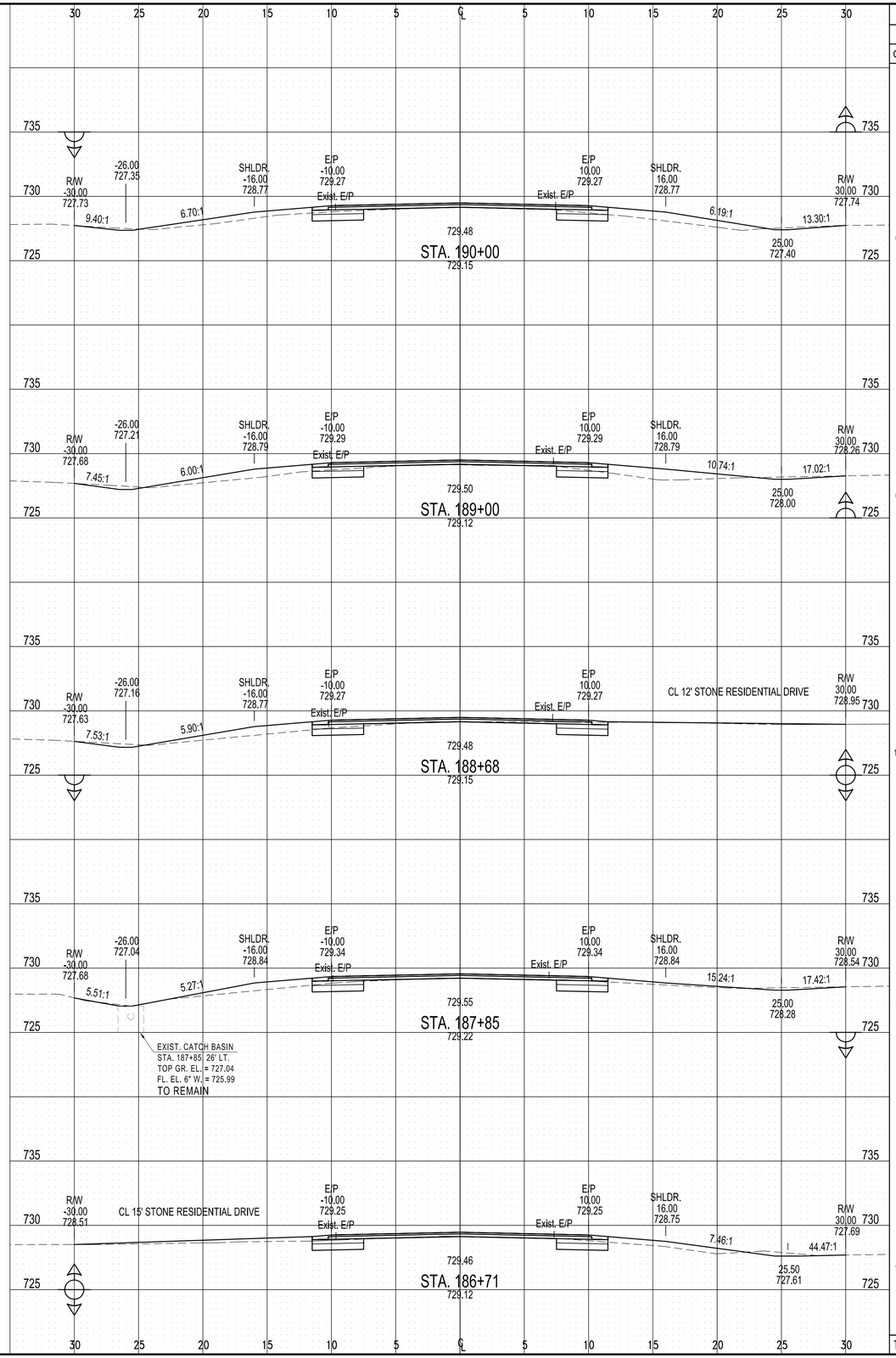
File: G:\Projects\Roads\County\Road T (7 to SR64)\dwgs\cross section master.dwg – Feb 13, 2012 – 8:51am – Fulton County Engineer's Office

END AREA SQ.FT. CUT	END AREA SQ.FT. FILL	VOLUME CU.YD. CUT	VOLUME CU.YD. FILL
11.00	11.49	41.68	57.73
11.50	19.68	45.79	69.15
13.22	17.66	9.55	9.94
12.57	9.19	10.93	21.05
7.11	26.70	5.58	23.01
TOTAL		113.53	180.88





END AREA SQ.FT. CUT	END AREA SQ.FT. FILL	VOLUME CU.YD. CUT	VOLUME CU.YD. FILL
6.35	12.04	24.14	46.07
6.69	12.84	10.73	11.35
11.42	6.31	28.52	19.82
7.13	6.58	34.47	24.50
9.19	5.02	26.56	21.72
TOTAL		124.42	123.46

Drawn By: HKD/BDL
Checked By: FTO
Date: 2/13/2012
Revised: N/A
Revised: N/A

VERTICAL SCALE IN FEET 10 5 0 5 10
HORIZONTAL SCALE IN FEET 20 10 0 10 20

FULTON COUNTY ROAD T (CO. RD. 7 TO S.R. 64)
CROSS SECTIONS ~ STA. 183+50 TO STA. 190+00

FULTON COUNTY ENGINEERING DEPT.
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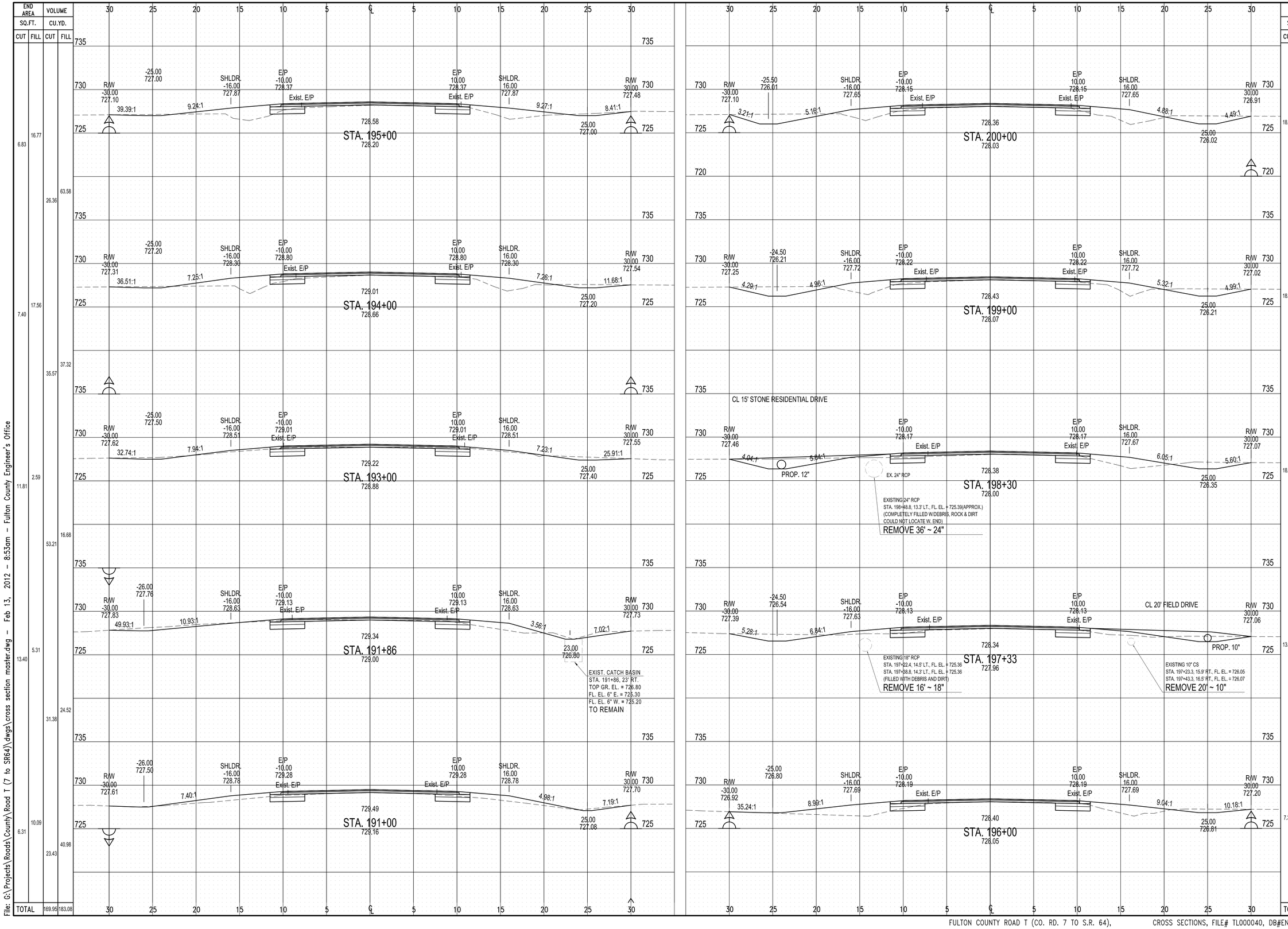

END AREA SQ.FT. CUT	END AREA SQ.FT. FILL	VOLUME CU.YD. CUT	VOLUME CU.YD. FILL
6.83	16.77	26.36	63.58
7.40	17.56	35.57	37.32
11.81	2.59	53.21	16.68
13.40	5.31	31.38	24.52
6.31	10.09	23.43	40.98
TOTAL		169.95	183.08

END AREA SQ.FT. CUT	END AREA SQ.FT. FILL	VOLUME CU.YD. CUT	VOLUME CU.YD. FILL
18.41	14.55	67.91	49.37
18.26	12.11	48.22	27.19
18.94	8.86	59.04	27.27
13.93	6.32	52.32	60.50
7.32	18.25	26.20	64.84
TOTAL		248.70	229.17

Drawn By: HKD/BDL
Checked By: FTO
Date: 2/13/2012
Revised: N/A
Revised: N/A

VERTICAL SCALE IN FEET 10 5 0 5 10
HORIZONTAL SCALE IN FEET 20 10 0 10 20

FULTON COUNTY ROAD T (CO. RD. 7 TO S.R. 64)
CROSS SECTIONS ~ STA. 191+00 TO STA. 200+00

FULTON COUNTY ENGINEERING DEPT.
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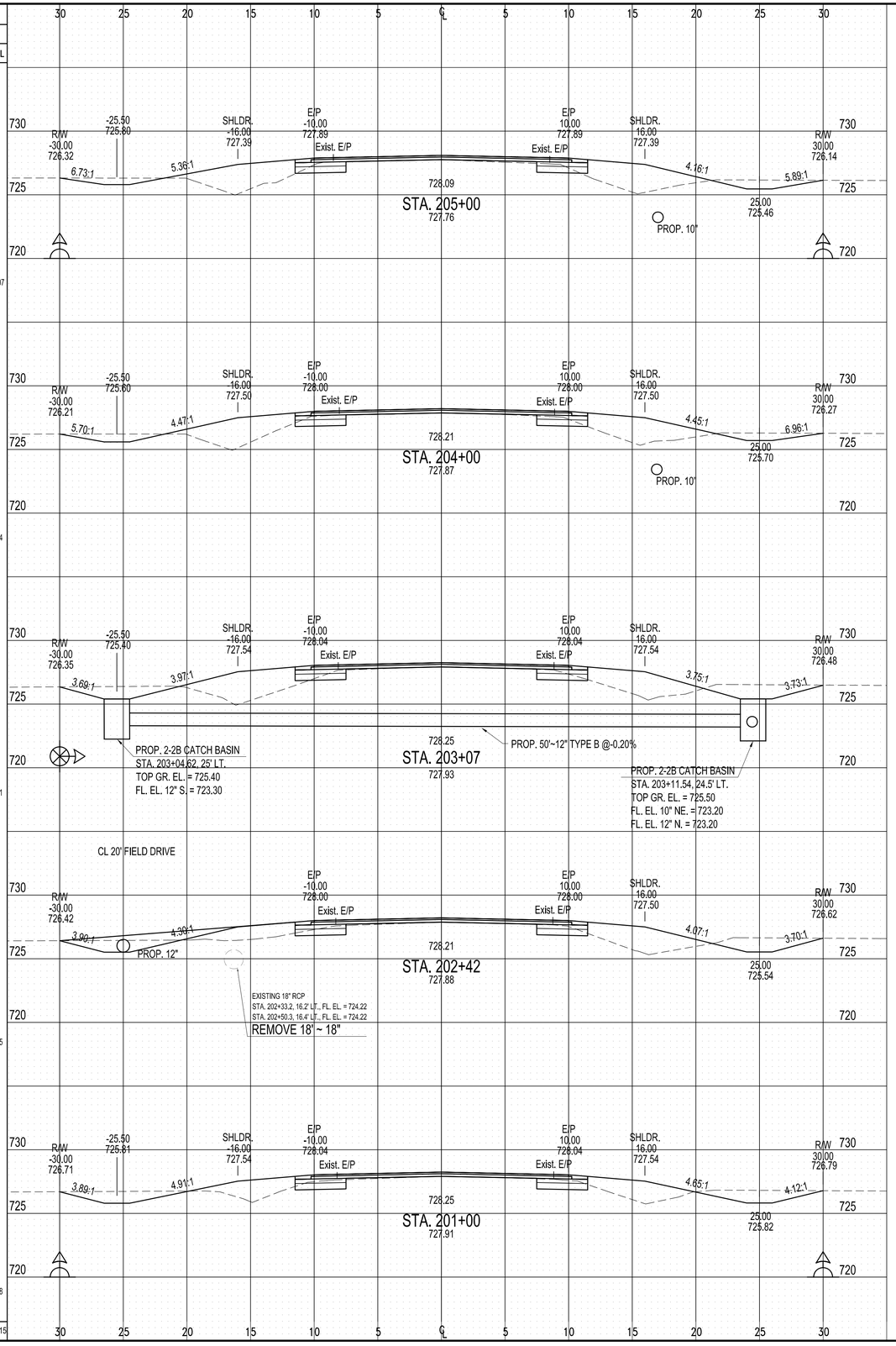
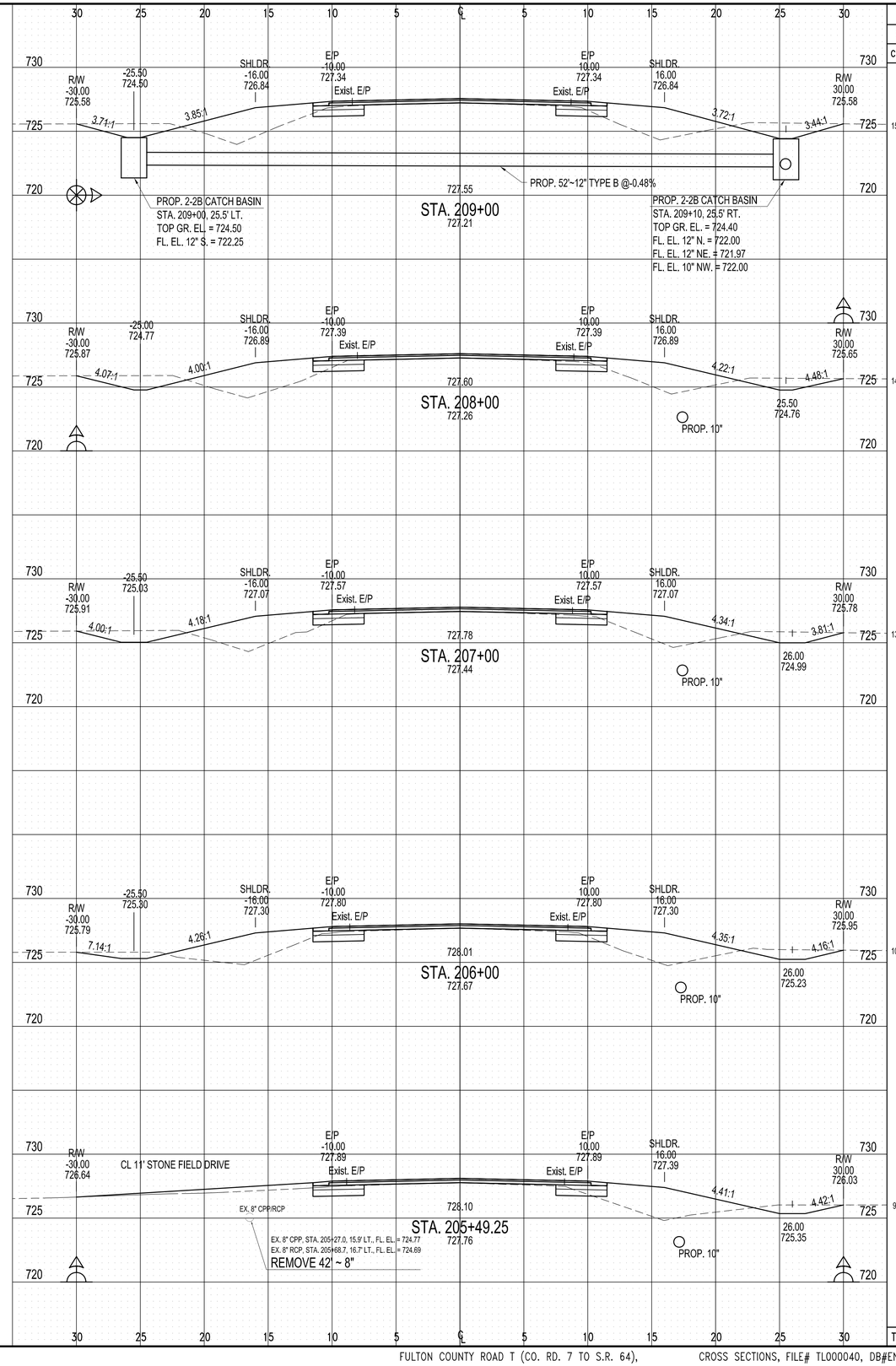
END AREA SQ.FT. CUT	END AREA SQ.FT. FILL	VOLUME CU.YD. CUT	VOLUME CU.YD. FILL
10.83	28.41	41.15	103.07
11.39	27.25	46.72	93.74
15.74	27.18	38.45	56.71
16.20	19.93	-3.93	98.35
17.17	17.46	87.75	59.28
			65.90
TOTAL		276.04	411.15



END AREA SQ.FT. CUT	END AREA SQ.FT. FILL	VOLUME CU.YD. CUT	VOLUME CU.YD. FILL
15.65	31.14	56.17	115.92
14.68	31.46	53.09	115.10
13.99	30.70	45.99	117.53
10.84	32.76	18.86	49.84
9.22	20.27	18.29	44.40
TOTAL		192.40	442.79



VERTICAL SCALE IN FEET 10 5 0 5 10
HORIZONTAL SCALE IN FEET 20 10 0 10 20

Drawn By: HKD/BDL
Checked By: FTO
Date: 2/13/2012
Revised: N/A
N/A

FULTON COUNTY ROAD T (CO. RD. 7 TO S.R. 64)
CROSS SECTIONS ~ STA. 201+00 TO STA. 209+00

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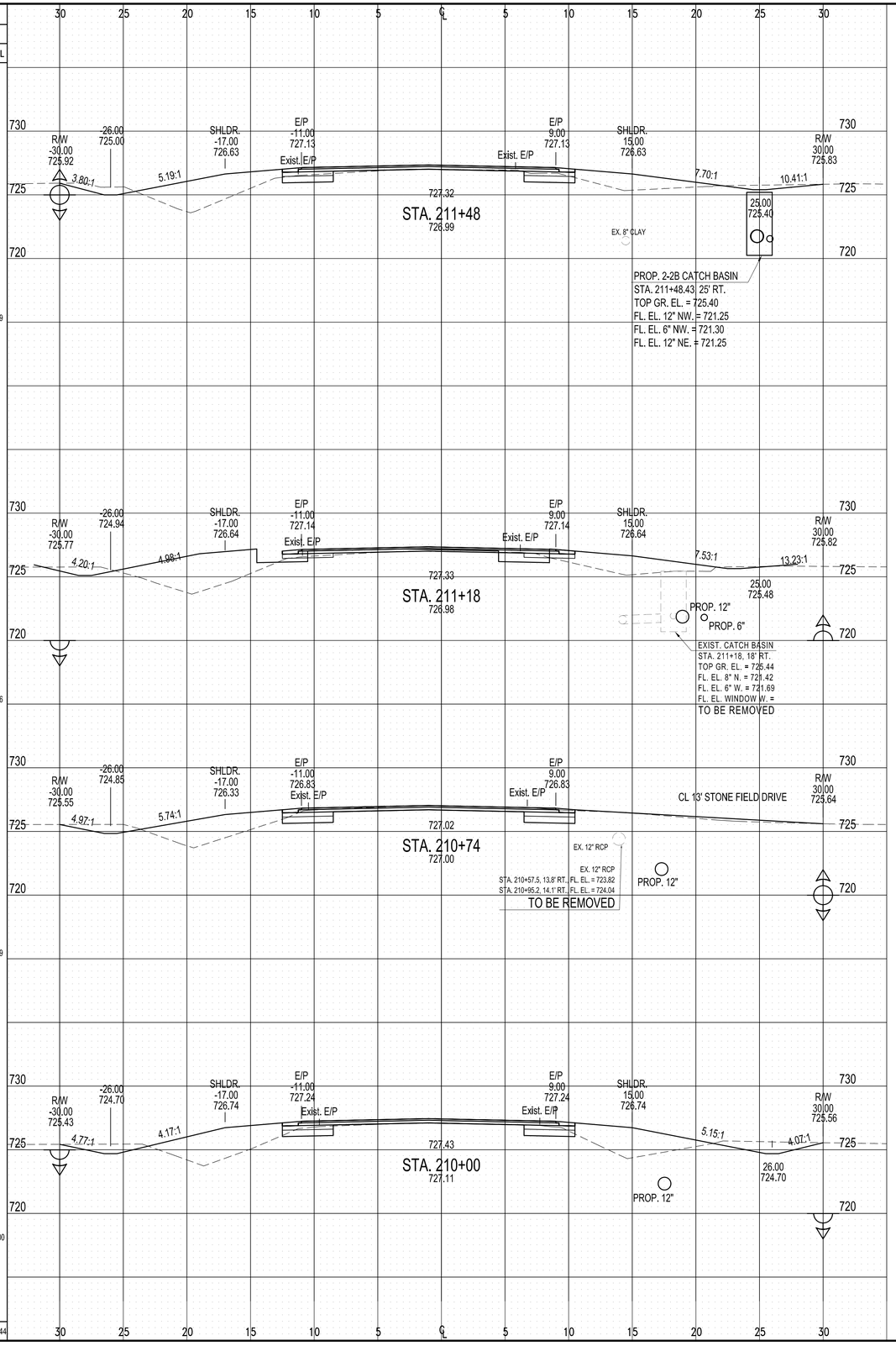
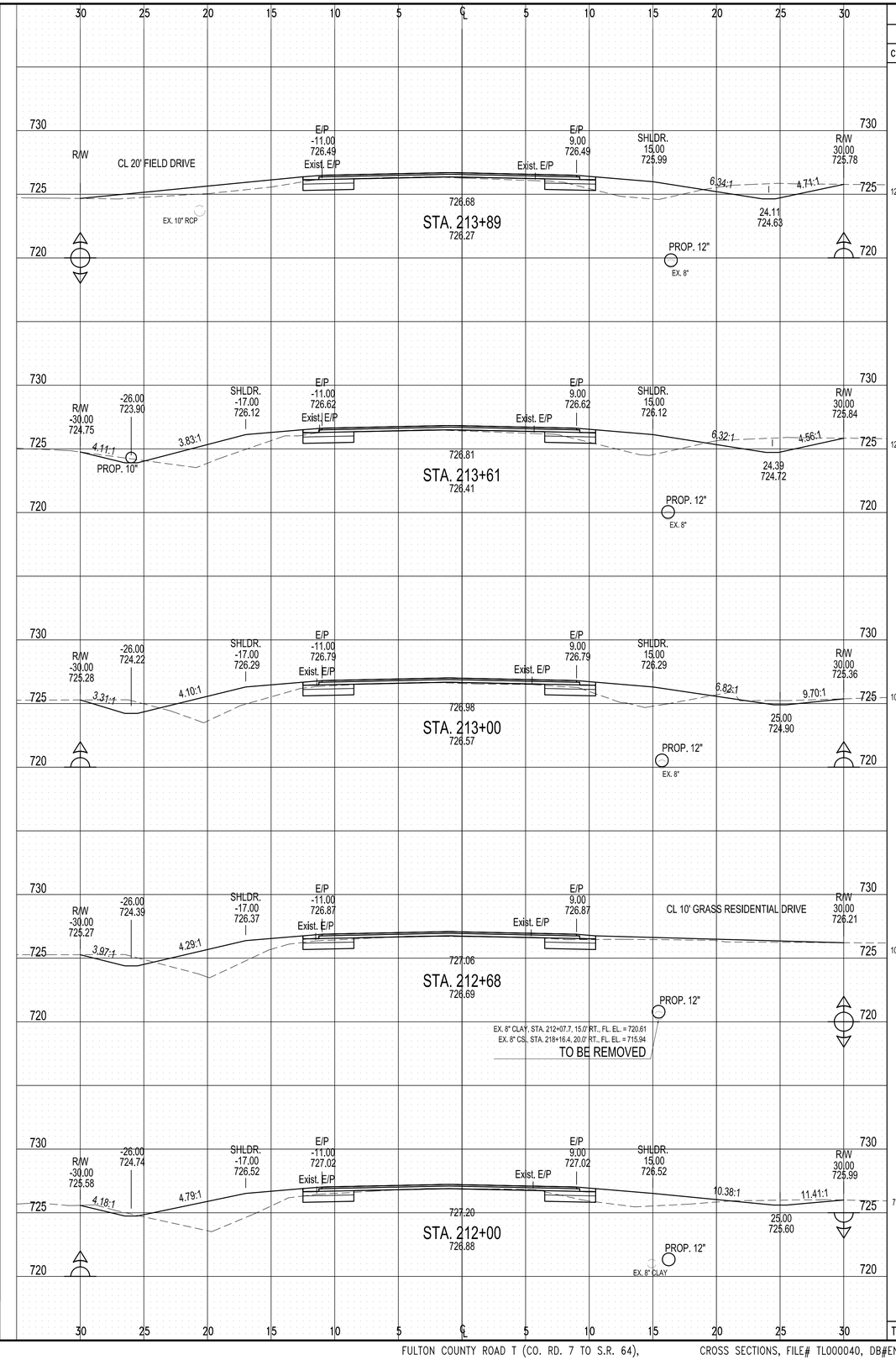
END AREA SQ.FT. CUT	END AREA SQ.FT. FILL	VOLUME CU.YD. CUT	VOLUME CU.YD. FILL
9.32	27.31	9.89	32.29
8.48	30.82	20.55	37.66
16.75	15.40	40.65	66.49
12.92	33.12	52.91	119.00
TOTAL		124.00	255.44





END AREA SQ.FT. CUT	END AREA SQ.FT. FILL	VOLUME CU.YD. CUT	VOLUME CU.YD. FILL
12.61	15.24	13.18	19.54
12.81	22.45	26.84	51.95
10.95	23.54	12.85	22.83
10.73	14.99	22.69	51.87
7.29	26.20	15.99	51.53
TOTAL		91.55	197.72

Drawn By: HKD/BDL | Checked By: FTO

Date: 2/13/2012 | Revised: N/A | N/A

VERTICAL SCALE IN FEET 10 5 0 5 10
HORIZONTAL SCALE IN FEET 20 10 0 10 20

FULTON COUNTY ROAD T (CO. RD. 7 TO S.R. 64)
CROSS SECTIONS ~ STA. 210+00 TO STA. 213+89

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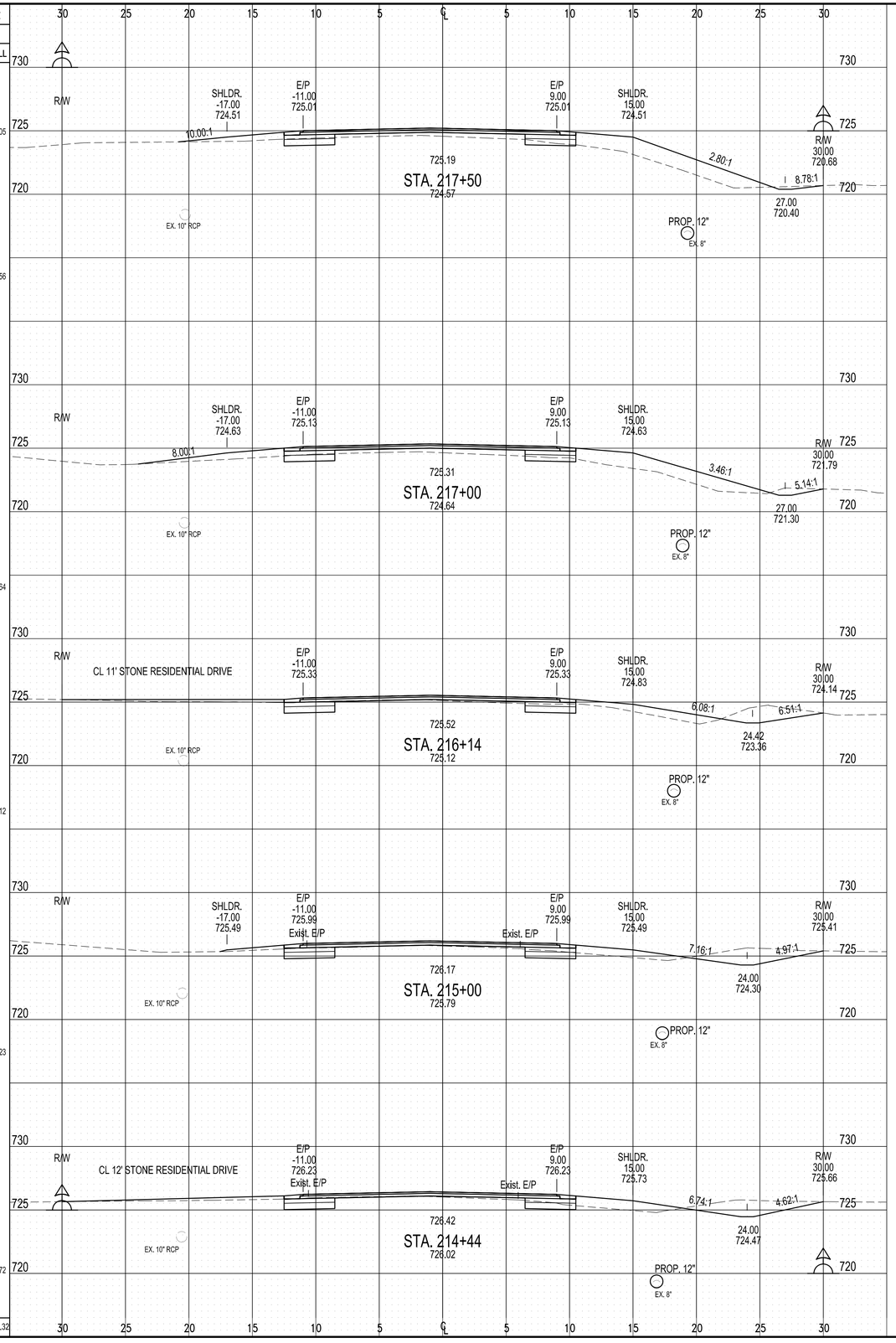
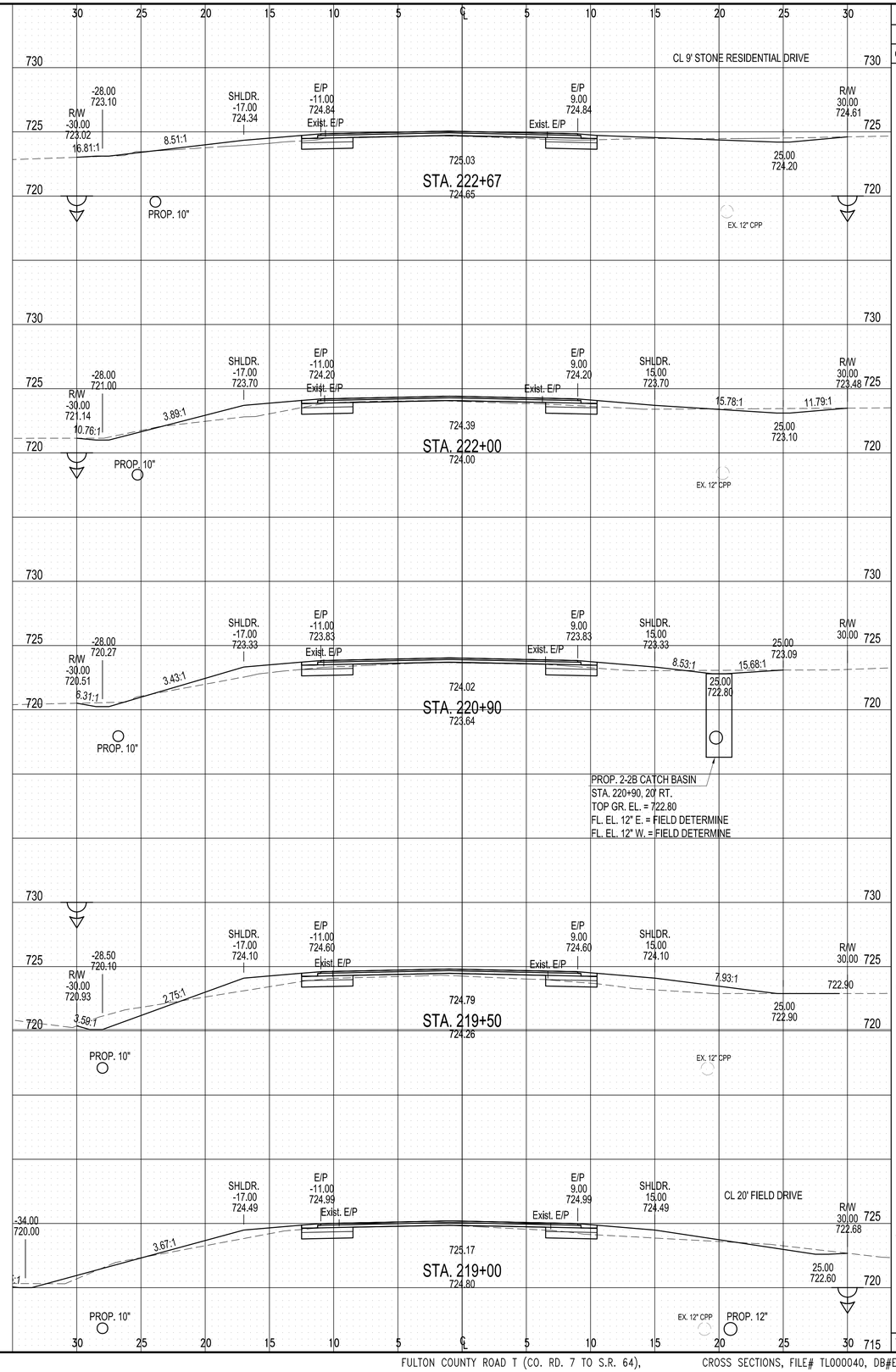
END AREA SQ.FT. CUT	END AREA SQ.FT. FILL	VOLUME CU.YD. CUT	VOLUME CU.YD. FILL
3.66	23.65	7.59	49.05
		7.73	42.56
4.69	22.31	27.35	47.64
12.49	7.62	53.74	30.12
12.97	6.65	27.45	14.23
13.50	7.07	26.59	22.72
TOTAL	150.45	206.32	





END AREA SQ.FT. CUT	END AREA SQ.FT. FILL	VOLUME CU.YD. CUT	VOLUME CU.YD. FILL
9.88	4.47	17.36	
		23.23	
8.84	9.52	33.93	37.23
7.81	8.75	36.23	72.94
6.16	19.38	17.91	26.97
13.18	9.74	22.94	15.87
TOTAL	134.24	170.37	

Drawn By: HKD/BDL
Checked By: FTO
Date: 2/13/2012
Revised: N/A
N/A

VERTICAL SCALE IN FEET 10 5 0 10 20
HORIZONTAL SCALE IN FEET 5 0 10

FULTON COUNTY ROAD T (CO. RD. 7 TO S.R. 64)
CROSS SECTIONS ~ STA. 214+44 TO STA. 222+67

FULTON COUNTY ENGINEERING DEPT.
FRANK T. CONNELLEY, P.E., P.S. COUNTY ENGINEER
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9120 Co Rd 14, WAUSEON, OHIO, 43567
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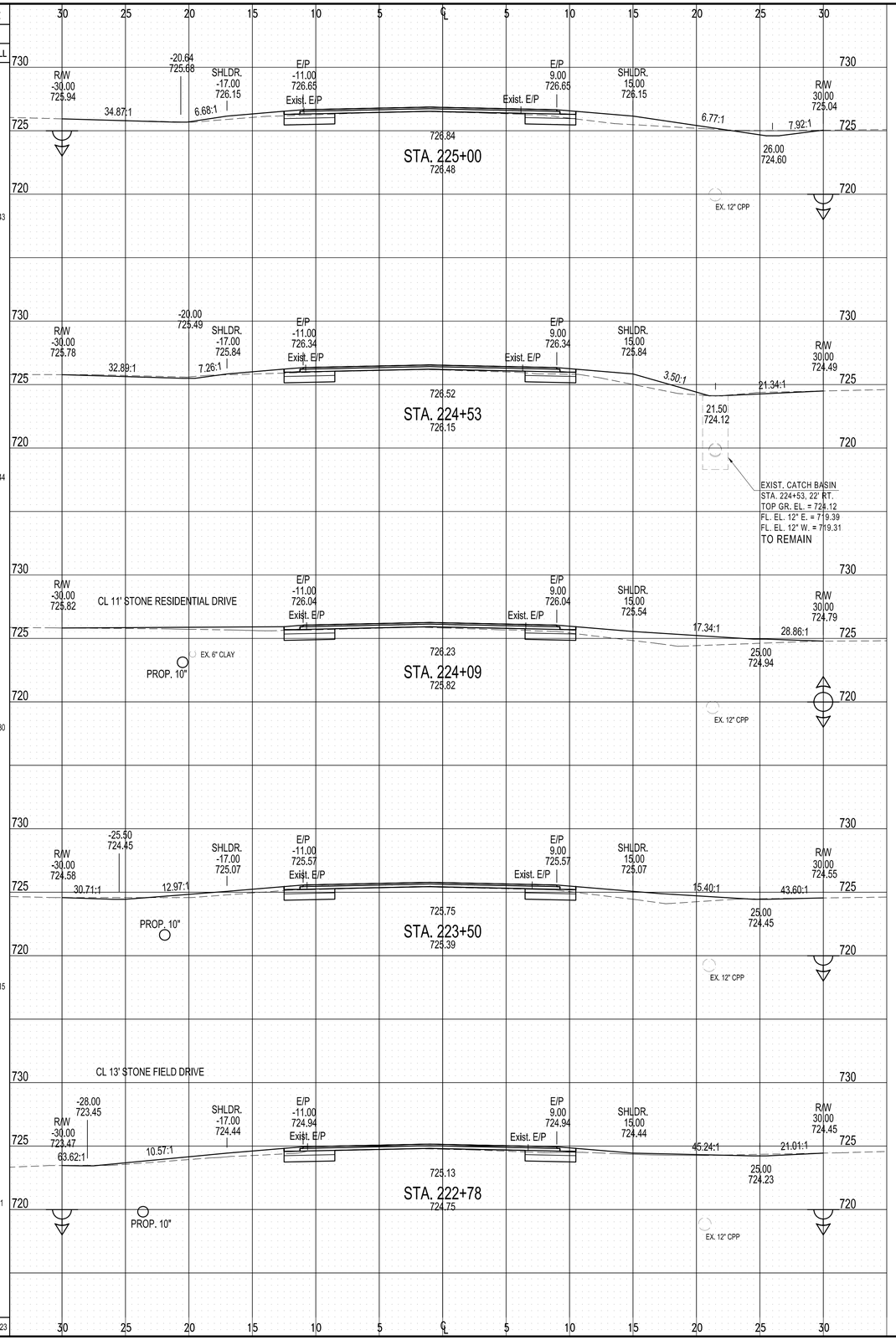
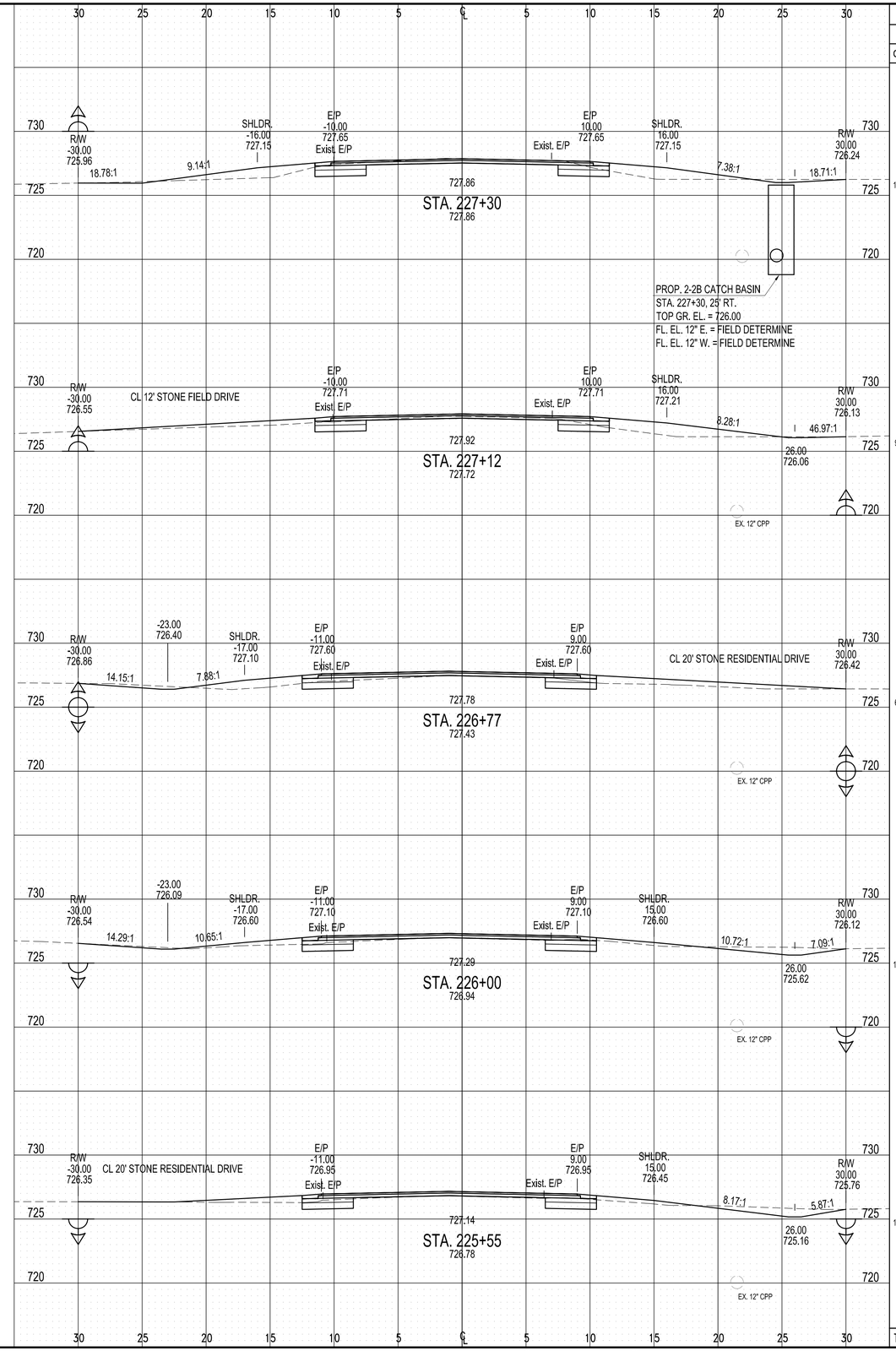
File: G:\Projects\Roads\County\Road T (7 to SR64)\dwgs\cross section master.dwg – Feb 13, 2012 – 8:58am – Fulton County Engineer's Office

File: G:\Projects\Roads\County\Road T (7 to SR64)\dwgs\cross section master.dwg – Feb 13, 2012 – 9:00am – Fulton County Engineer's Office

END AREA SQ.FT. CUT	END AREA SQ.FT. FILL	VOLUME CU.YD. CUT	VOLUME CU.YD. FILL
7.41	8.33		
		12.85	13.43
7.35	7.10		
		13.19	15.44
8.83	11.85		
		17.14	23.30
6.86	9.47		
		18.20	19.15
6.79	4.89		
		3.40	1.91
TOTAL	64.78	73.23	



END AREA SQ.FT. CUT	END AREA SQ.FT. FILL	VOLUME CU.YD. CUT	VOLUME CU.YD. FILL
12.65	14.53		
		7.40	8.26
9.55	10.26		
		10.44	12.47
6.57	8.98		
		24.01	19.20
10.27	4.49		
		19.06	7.31
12.60	4.28		
		20.38	12.84
TOTAL	81.29	60.08	



Drawn By: HKD/BDL | Checked By: FTO

Date: 2/13/2012 | Revised: N/A | N/A

VERTICAL SCALE IN FEET 10 5 0 5 10
HORIZONTAL SCALE IN FEET 10 0 10 20

FULTON COUNTY ROAD T (CO. RD. 7 TO S.R. 64)

CROSS SECTIONS ~ STA. 222+78 TO STA. 227+30

FULTON COUNTY ENGINEERING DEPT.
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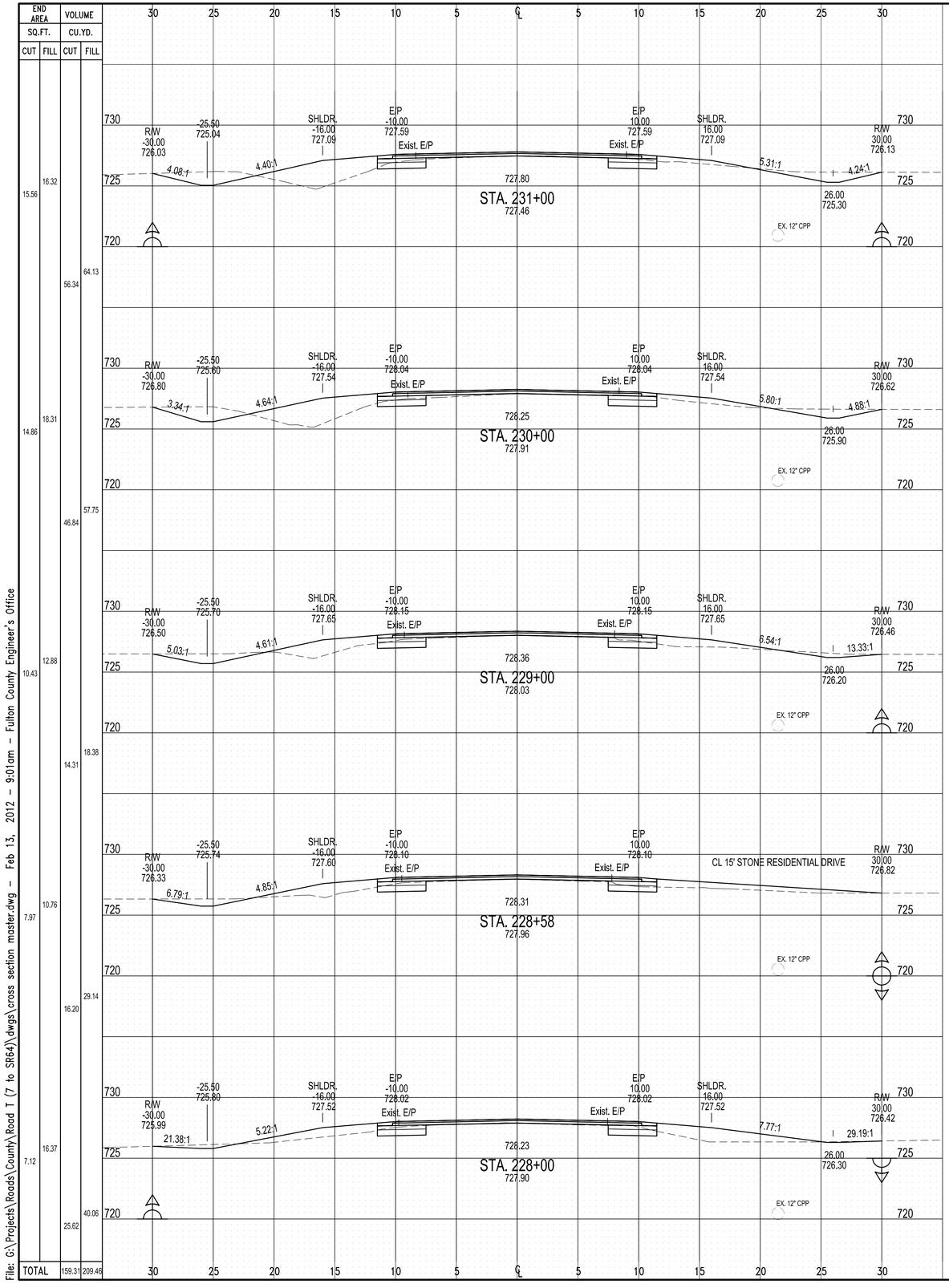

END AREA SQ.FT. CUT	END AREA SQ.FT. FILL	VOLUME CU.YD. CUT	VOLUME CU.YD. FILL
15.56	16.32	56.34	64.13
14.86	18.31	46.84	57.75
10.43	12.88	14.31	18.38
7.97	10.76	10.76	16.20
7.12	16.37	25.62	40.06
TOTAL		159.31	209.46

END AREA SQ.FT. CUT	END AREA SQ.FT. FILL	VOLUME CU.YD. CUT	VOLUME CU.YD. FILL
11.52	16.17	43.46	71.60
11.94	22.49	48.89	70.03
14.46	15.32	56.12	59.40
15.85	16.75	21.61	28.23
13.32	21.35	32.09	41.86
TOTAL		202.17	271.12

Drawn By: HKD/BDL
Checked By: FTO
Date: 2/13/2012
Revised: N/A
Revised: N/A

VERTICAL SCALE IN FEET 10 5 0 5 10
HORIZONTAL SCALE IN FEET 20 10 0 10 20

FULTON COUNTY ROAD T (CO. RD. 7 TO S.R. 64)
CROSS SECTIONS ~ STA. 228+00 TO STA. 235+00

FULTON COUNTY ENGINEERING DEPT.
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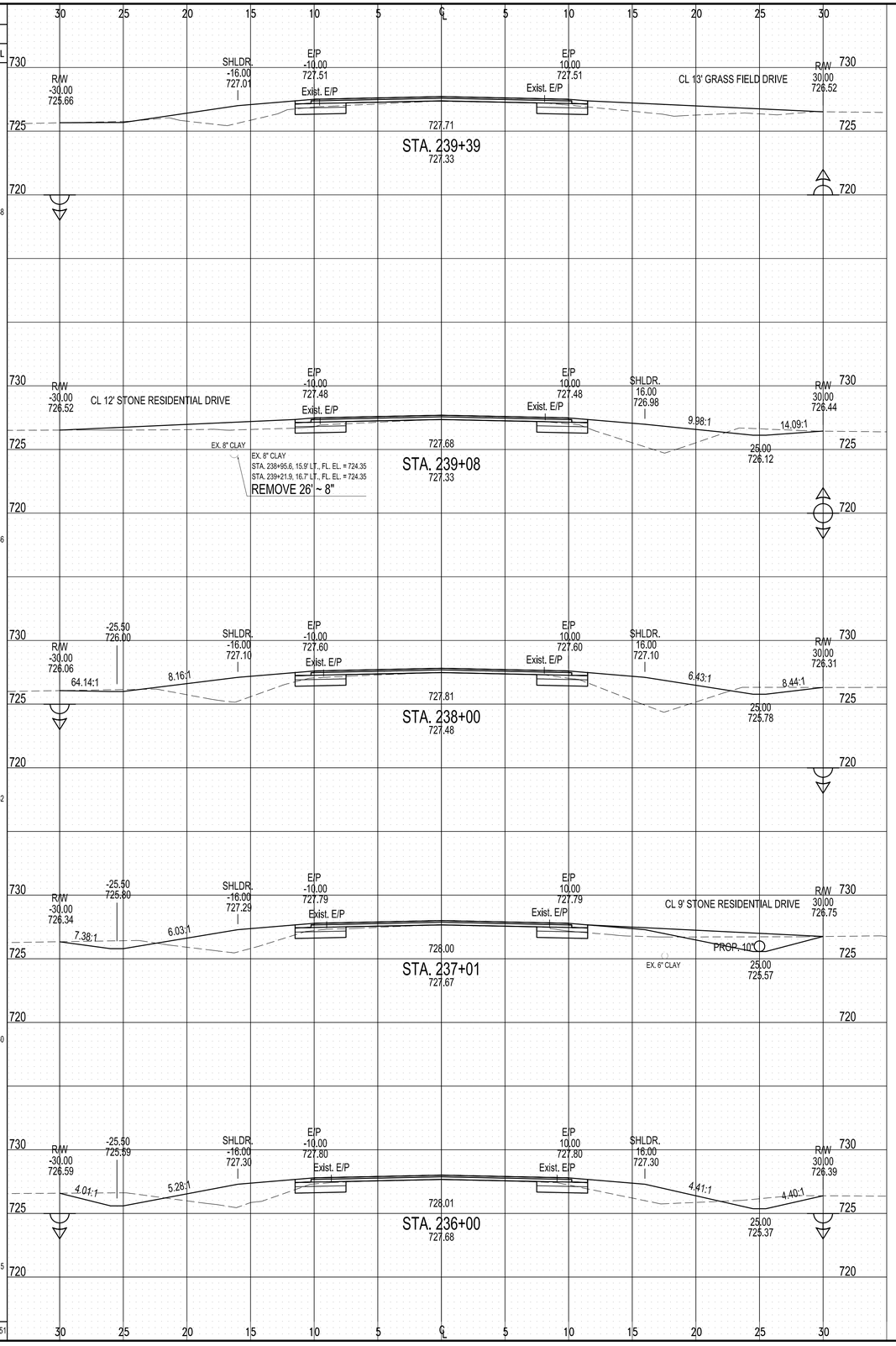
END AREA SQ.FT. CUT	END AREA SQ.FT. FILL	VOLUME CU.YD. CUT	VOLUME CU.YD. FILL
6.70	16.80	8.90	19.88
8.81	17.82	33.28	95.86
7.83	30.10	41.34	84.32
14.72	15.89	-2.33	68.30
13.85	20.63	53.44	68.15
		47.00	
TOTAL		161.63	336.51



END AREA SQ.FT. CUT	END AREA SQ.FT. FILL	VOLUME CU.YD. CUT	VOLUME CU.YD. FILL
10.99	30.09	47.04	109.22
14.41	28.89	53.56	113.31
14.51	32.30	50.14	117.01
12.56	30.88	43.22	108.22
10.77	27.55	19.74	50.11
TOTAL		213.70	497.87

Drawn By: HKD/BDL
Checked By: FTO
Date: 2/13/2012
Revised: N/A
Revised: N/A

VERTICAL SCALE IN FEET 10 5 0 5 10
HORIZONTAL SCALE IN FEET 10 0 10 20

FULTON COUNTY ROAD T (CO. RD. 7 TO S.R. 64)
CROSS SECTIONS ~ STA. 236+00 TO STA. 244+00

FULTON COUNTY ENGINEERING DEPT.
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END AREA SQ.FT. CUT	END AREA SQ.FT. FILL	VOLUME CU.YD. CUT	VOLUME CU.YD. FILL
13.88	27.33	46.37	104.91
11.16	29.32	40.39	113.85
10.65	32.16	52.63	110.65
17.77	27.59	13.56	18.44
15.52	17.67	38.29	69.00
TOTAL		191.24	416.85

STA. 248+00
726.03
725.69

R/W -30.00 724.46 | -25.50 723.71 | SHLDR. -17.00 725.34 | E/P -11.00 725.84 Exist. E/P | E/P 9.00 725.84 Exist. E/P | SHLDR. 15.00 725.34 | R/W 30.00 724.50 | 25.00 723.55
5.29:1 | 4.89:1 | 5.31:1 | 4.16:1

STA. 247+00
726.10
725.76

R/W -30.00 724.44 | -25.50 723.90 | SHLDR. -17.00 725.41 | E/P -11.00 725.91 Exist. E/P | E/P 9.00 725.91 Exist. E/P | SHLDR. 15.00 725.41 | R/W 30.00 724.42 | 25.00 723.73
7.44:1 | 5.31:1 | 5.66:1 | 6.50:1

STA. 246+00
726.30
725.96

R/W -30.00 724.52 | -25.50 724.10 | SHLDR. -17.00 725.61 | E/P -11.00 726.11 Exist. E/P | E/P 9.00 726.11 Exist. E/P | SHLDR. 15.00 725.61 | R/W 30.00 724.54 | 25.00 723.91
9.60:1 | 5.29:1 | 5.58:1 | 7.10:1

STA. 245+00
726.57
726.24

R/W -30.00 724.64 | -25.50 724.30 | SHLDR. -17.00 725.88 | E/P -11.00 726.38 Exist. E/P | E/P 9.00 726.38 Exist. E/P | SHLDR. 15.00 725.88 | R/W 30.00 724.95 | 25.00 724.09
11.93:1 | 5.10:1 | 5.30:1 | 5.23:1

STA. 244+78
726.62
726.29

R/W -30.00 724.70 | -25.50 724.37 | SHLDR. -17.00 725.93 | E/P -11.00 726.43 Exist. E/P | E/P 9.00 726.43 Exist. E/P | CL 16' GRASS FIELD DRIVE | R/W 30.00 724.88
12.24:1 | 6.12:1

EX. 10" CLAY, STA. 244+67, 15.2' RT., FL. EL. = 722.87
EX. 12" CS, STA. 244+89, 16.0' RT., FL. EL. = 722.80
REMOVE 22' ~ 10"/12"

EX. 10" CLAY/12" CS
PROP. 10"

STA. 251+55
726.22
725.87

R/W -30.00 724.79 | -26.00 724.36 | SHLDR. -17.00 725.53 | E/P -11.00 726.03 Exist. E/P | E/P 9.00 726.03 Exist. E/P | SHLDR. 15.00 725.53 | R/W 30.00 725.30 | 25.00 724.90
8.03:1 | 7.24:1 | 15.07:1 | 11.36:1

EX. 12" CLAY
PROP. 12"
EX. 12" CLAY
STA. 251+35, 16.6' LT., FL. EL. = 722.44
STA. 251+70, 18.3' LT., FL. EL. = 722.44
REMOVE 35' ~ 12"

EX. 8" STEEL
EX. 30" CS
EX. 30" CS
STA. 251+41.1, 14.4' RT., FL. EL. = 721.61
STA. 251+73.8, 14.6' RT., FL. EL. = 721.48
REMOVE 32' ~ 30"

STA. 251+00
726.23
725.87

R/W -30.00 724.32 | -25.00 723.50 | SHLDR. -17.00 725.54 | E/P -11.00 726.04 Exist. E/P | E/P 9.00 726.04 Exist. E/P | SHLDR. 15.00 725.54 | R/W 30.00 724.35 | 25.00 723.50
5.50:1 | 3.68:1 | 4.66:1 | 5.28:1

PROP. 12"

STA. 250+55
726.15
725.81

R/W -30.00 724.35 | -25.00 723.20 | SHLDR. -17.00 725.47 | E/P -11.00 725.97 Exist. E/P | E/P 9.00 725.97 Exist. E/P | SHLDR. 15.00 725.47 | R/W 30.00 724.31 | 25.00 723.10
3.93:1 | 3.31:1 | 4.02:1 | 3.71:1

REMOVE 10' ~ 6" CLAY
EX. 6" CLAY
PROP. 50'~12" TYPE B @0.40%
PROP. 2-2B CATCH BASIN
STA. 250+55, 25' LT.
TOP GR. EL. = 723.20
FL. EL. 12" S. = 720.60
FL. EL. 12" E. = 720.50
PROP. 2-2B CATCH BASIN
STA. 250+55, 25' RT.
TOP GR. EL. = 723.10
FL. EL. 12" N. = 720.80
FL. EL. 6" SE. = 721.50

STA. 250+00
726.09
725.72

R/W -30.00 724.41 | -25.50 723.31 | SHLDR. -17.00 725.40 | E/P -11.00 725.90 Exist. E/P | E/P 9.00 725.90 Exist. E/P | SHLDR. 15.00 725.40 | R/W 30.00 724.20 | 25.00 723.20
3.66:1 | 3.82:1 | 4.31:1 | 4.49:1

STA. 249+00
726.04
725.71

R/W -30.00 724.51 | -25.50 723.51 | SHLDR. -17.00 725.35 | E/P -11.00 725.85 Exist. E/P | E/P 9.00 725.85 Exist. E/P | SHLDR. 15.00 725.36 | R/W 30.00 724.40 | 25.00 723.38
4.01:1 | 4.33:1 | 4.80:1 | 4.40:1

END AREA SQ.FT. CUT	END AREA SQ.FT. FILL	VOLUME CU.YD. CUT	VOLUME CU.YD. FILL
9.03	8.54	20.80	41.68
11.39	32.38	22.26	51.53
15.32	29.45	30.36	60.41
14.49	29.86	55.93	107.09
15.71	27.97	54.80	102.41
TOTAL		184.15	363.12

Drawn By: HKD/BDL
Checked By: FTO
Date: 2/13/2012
Revised: N/A
Revised: N/A

VERTICAL SCALE IN FEET 10 5 0 10 20
HORIZONTAL SCALE IN FEET 5 0 5 10

FULTON COUNTY ROAD T (CO. RD. 7 TO S.R. 64)
CROSS SECTIONS ~ STA. 244+78 TO STA. 251+55

FULTON COUNTY ENGINEERING DEPT.
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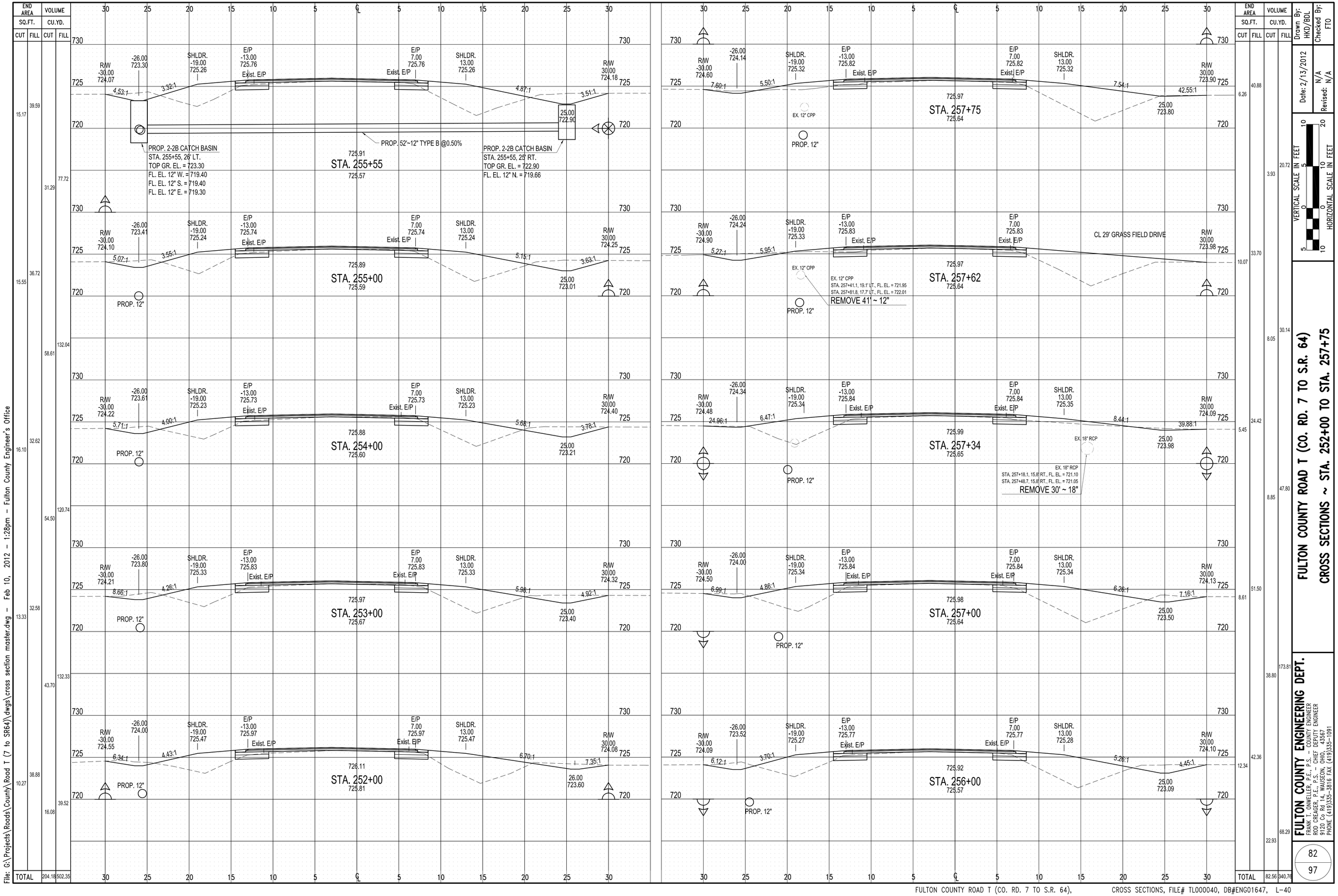

END AREA SQ.FT. CUT	END AREA SQ.FT. FILL	VOLUME CU.YD. CUT	VOLUME CU.YD. FILL
15.17	39.59	31.29	77.72
15.55	36.72	58.61	132.04
16.10	32.62	54.50	120.74
13.33	32.58	43.70	132.33
10.27	38.88	16.08	39.52
TOTAL	204.18	502.35	

END AREA SQ.FT. CUT	END AREA SQ.FT. FILL	VOLUME CU.YD. CUT	VOLUME CU.YD. FILL
6.26	40.88	3.93	20.72
10.07	33.70	8.05	30.14
5.45	24.42	8.85	47.80
8.61	51.50	38.80	173.81
12.34	42.36	22.93	68.29
TOTAL	82.56	340.76	

Drawn By: HKD/BDL
Checked By: FTO
Date: 2/13/2012
Revised: N/A
Revised: N/A

VERTICAL SCALE IN FEET 10 5 0 5 10
HORIZONTAL SCALE IN FEET 10 0 10 20

FULTON COUNTY ROAD T (CO. RD. 7 TO S.R. 64)
CROSS SECTIONS ~ STA. 252+00 TO STA. 257+75

FULTON COUNTY ENGINEERING DEPT.
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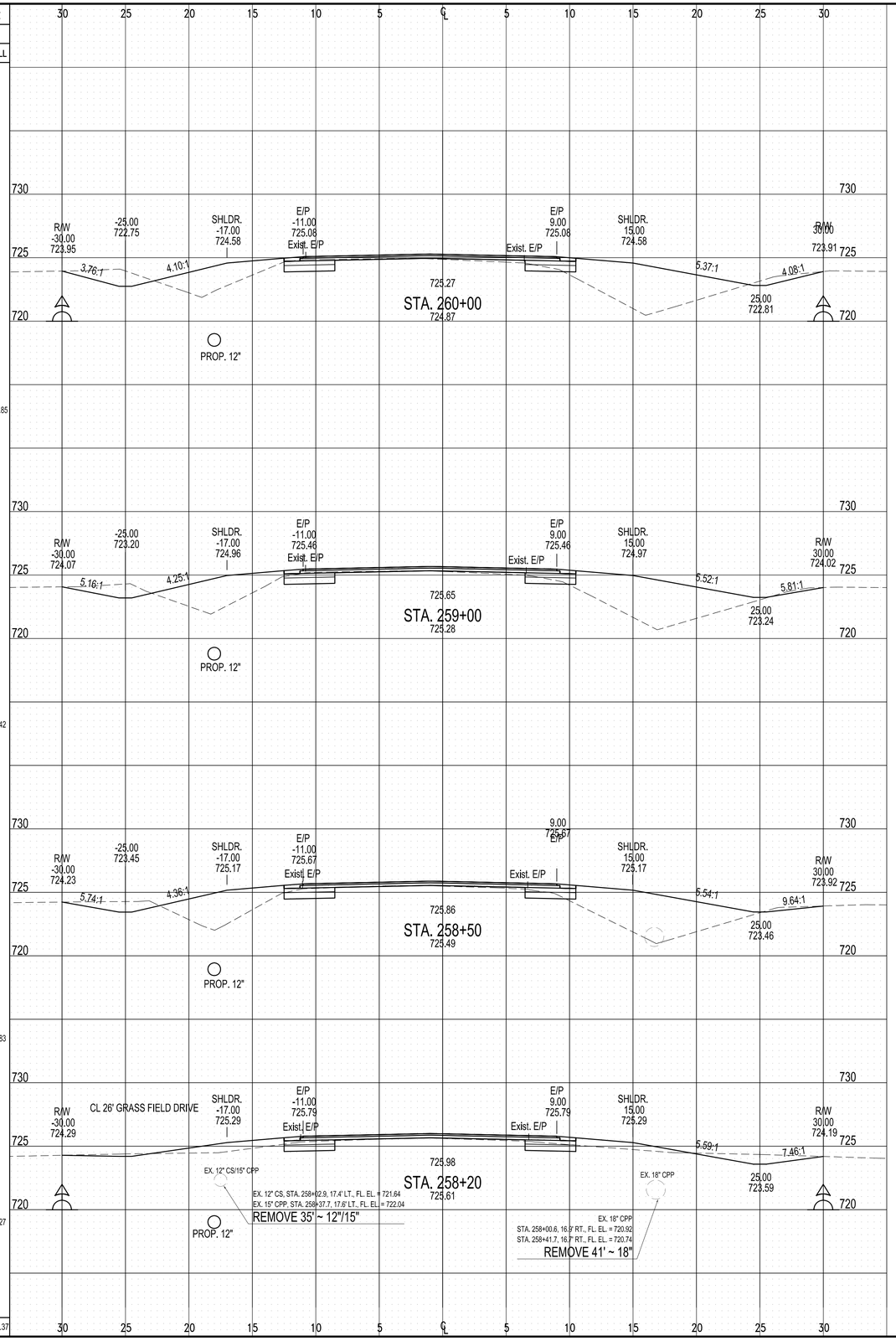
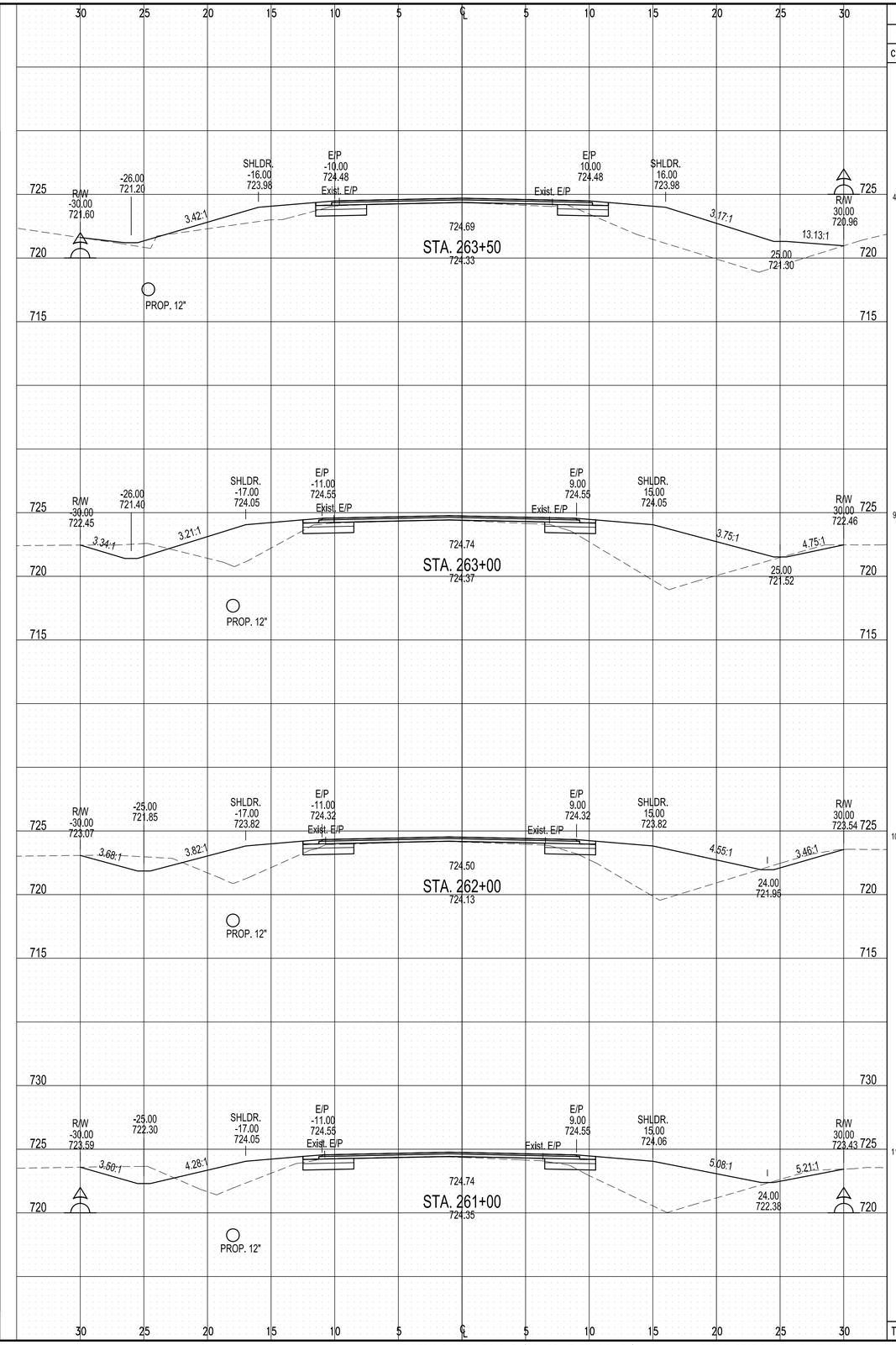
END AREA SQ.FT. CUT	END AREA SQ.FT. FILL	VOLUME CU.YD. CUT	VOLUME CU.YD. FILL
11.88	45.34	38.84	177.85
9.09	50.70		
9.06	50.19	16.80	93.42
		12.22	32.83
12.94	8.91	12.44	32.27
TOTAL	80.30		336.37





END AREA SQ.FT. CUT	END AREA SQ.FT. FILL	VOLUME CU.YD. CUT	VOLUME CU.YD. FILL
4.47	49.85	12.62	104.04
9.16	60.78		
10.76	48.37	40.74	172.39
11.24	44.72	42.82	166.78
TOTAL	133.07	645.34	

Drawn By: HKD/BDL
Checked By: FTO
Date: 2/13/2012
Revised: N/A
N/A

VERTICAL SCALE IN FEET 10 5 0 5 10
HORIZONTAL SCALE IN FEET 20 10 0 10 20

FULTON COUNTY ROAD T (CO. RD. 7 TO S.R. 64)
CROSS SECTIONS ~ STA. 258+20 TO STA. 263+50

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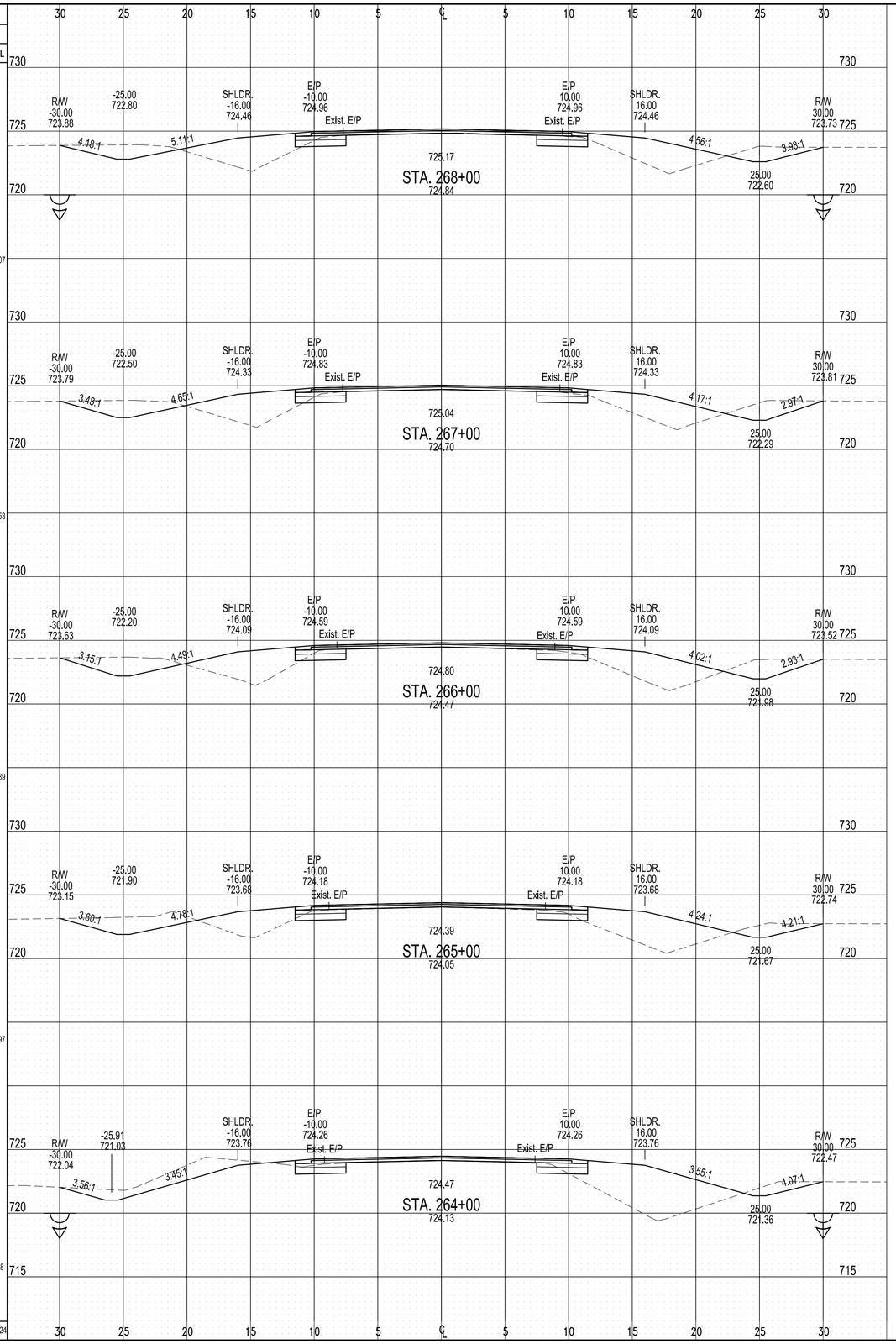
END AREA SQ.FT. CUT	END AREA SQ.FT. FILL	VOLUME CU.YD. CUT	VOLUME CU.YD. FILL
16.48	30.07	65.82	109.07
19.06	28.83	72.37	112.53
20.02	31.94	70.06	117.89
17.81	31.72	67.70	117.97
18.74	31.99	21.49	75.78
TOTAL		297.44	533.24



END AREA SQ.FT. CUT	END AREA SQ.FT. FILL	VOLUME CU.YD. CUT	VOLUME CU.YD. FILL
16.55	5.35	13.26	32.99
		15.03	30.33
		38.66	49.69
		52.41	117.26
		58.34	111.86
TOTAL		149.41	278.81

Drawn By: HKD/BDL
Checked By: FTO
Date: 2/13/2012
Revised: N/A

VERTICAL SCALE IN FEET 10 5 0 5 10
HORIZONTAL SCALE IN FEET 20 10 0 10 20

FULTON COUNTY ROAD T (CO. RD. 7 TO S.R. 64)
CROSS SECTIONS ~ STA. 264+00 TO STA. 270+70

FULTON COUNTY ENGINEERING DEPT.
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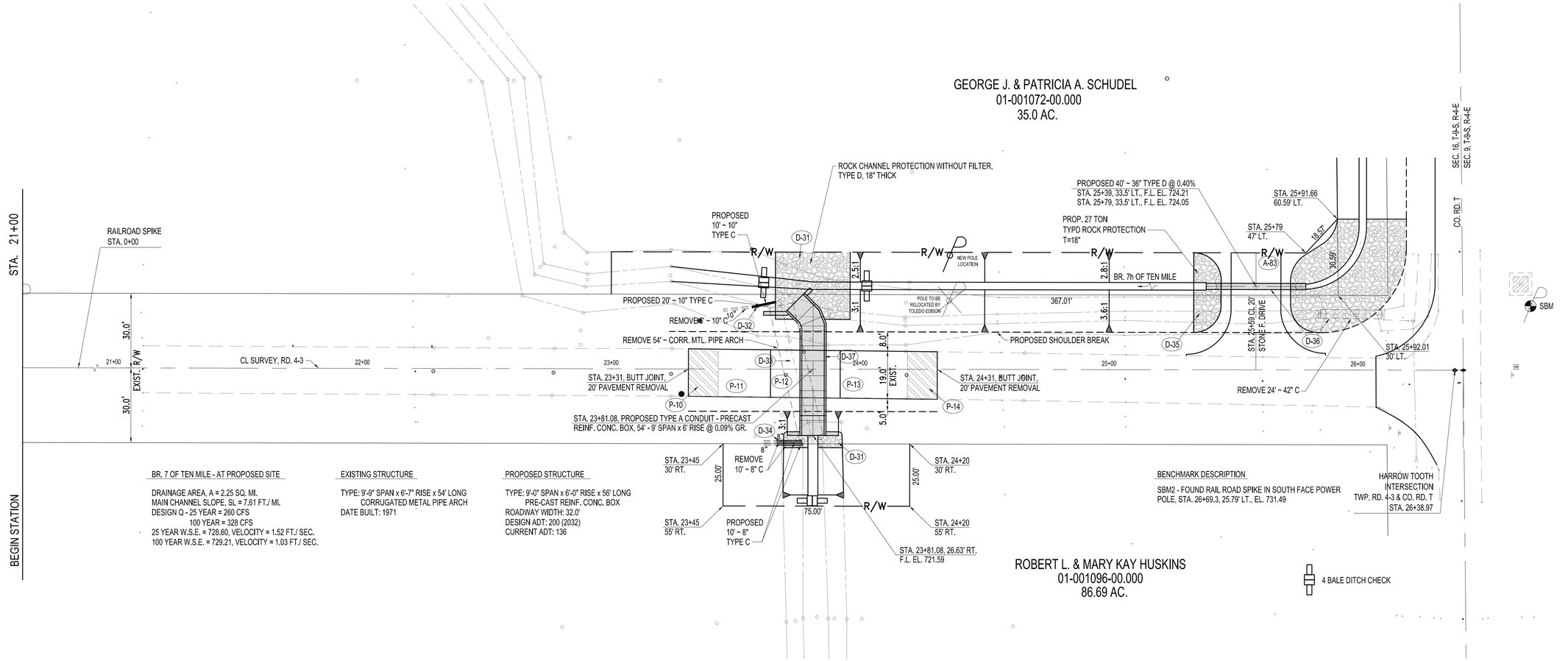

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HORIZONTAL SCALE IN FEET

Drawn By: JLE | Checked By: FTO

Date: 2/13/2012 | Revised: N/A | N/A

CULVERT 4-3S.9 REPLACEMENT

PLAN & PROFILE, STA. 21+00 TO 26+20

FULTON COUNTY ENGINEERING DEPT.
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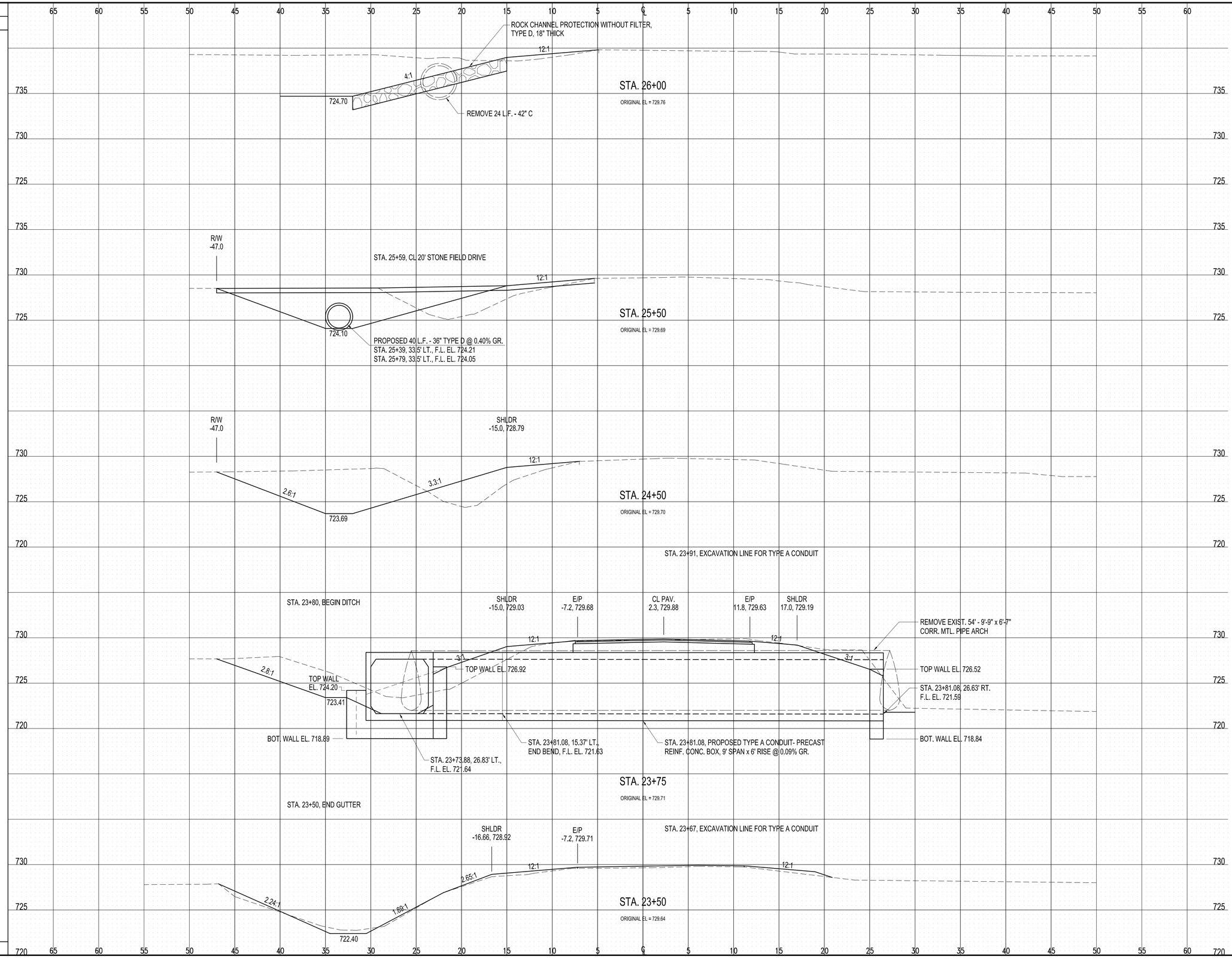

END AREA SQ. FT. CUT	END AREA SQ. FT. FILL	VOLUME CU. YD. CUT	VOLUME CU. YD. FILL
		101.9	43.3
55.0	23.4		
		223.5	90.9
		-73.5	
65.7	25.7		
		182.5	71.4
3.3	5.9		
		3.1	6.7
TOTAL		437.5	212.3

Drawn By: JLE
Checked By: FTO
Date: 2/13/2012
Revised: N/A
N/A

HORIZONTAL & VERTICAL SCALE IN FEET
10 5 0 5

CULVERT 4-3S.9 REPLACEMENT
ROAD 4-3 CROSS SECTIONS, STA. 23+50 TO 24+50

FULTON COUNTY ENGINEERING DEPT.
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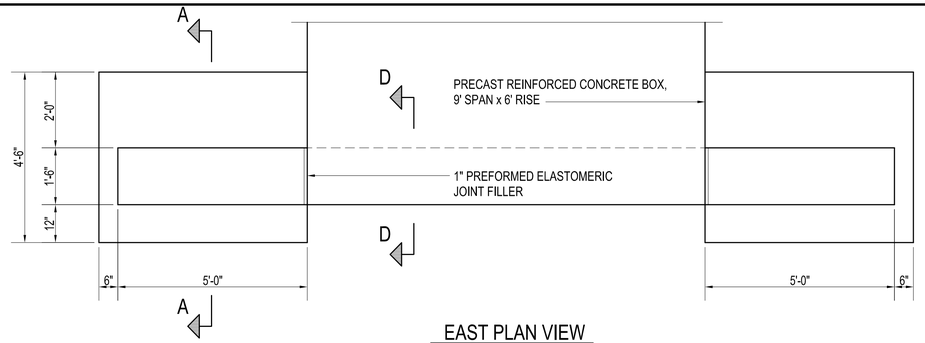
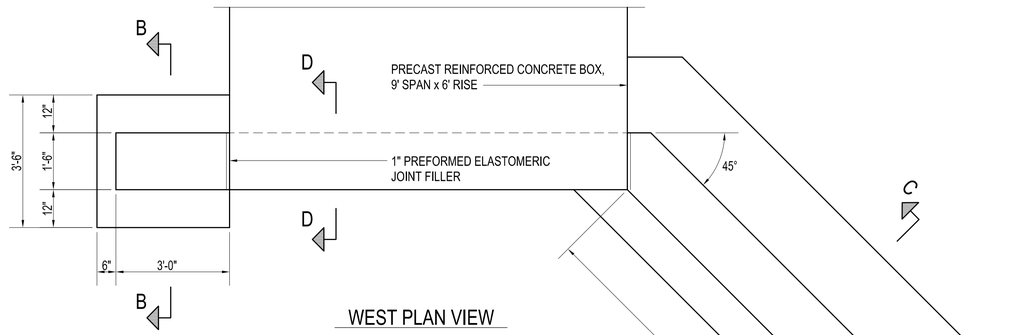


EAST PLAN VIEW

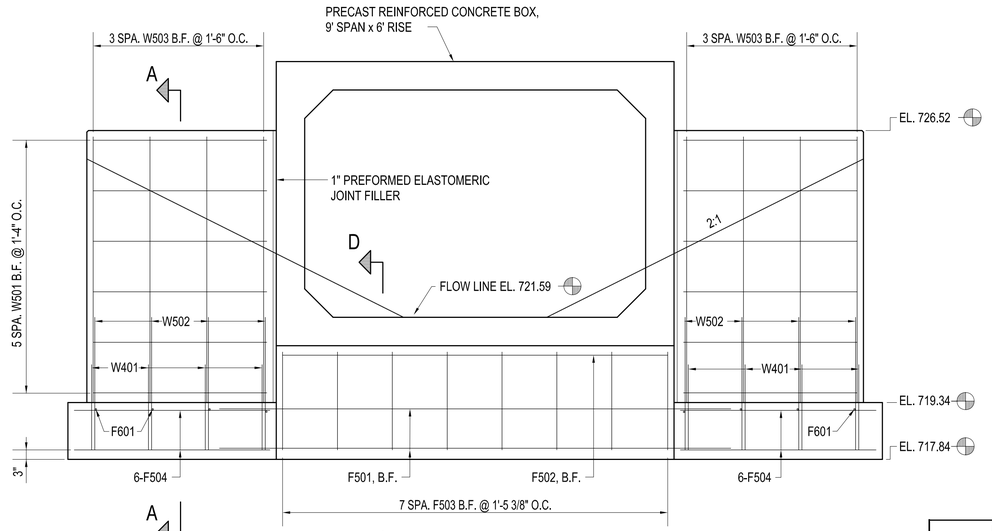


WEST PLAN VIEW

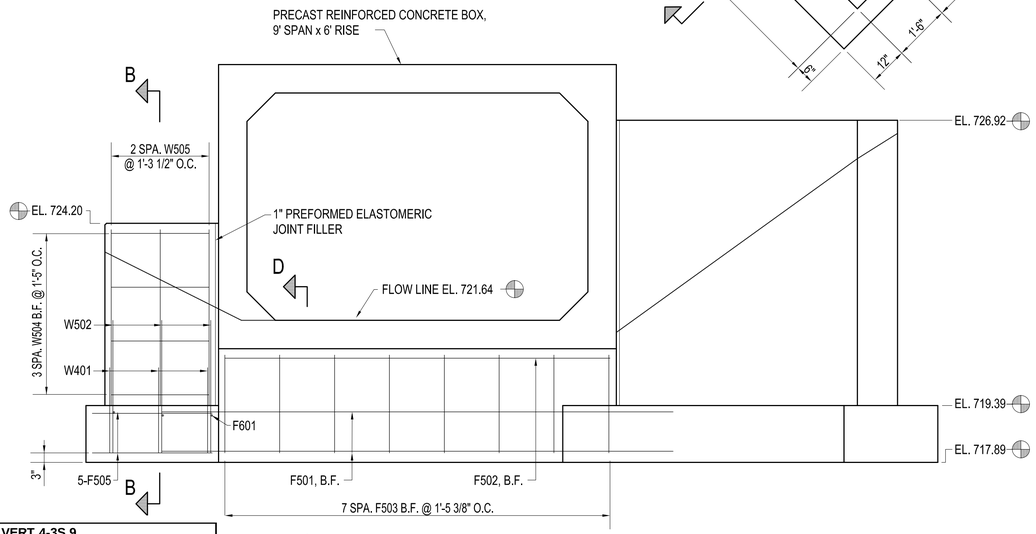
NOTES

THE ESTIMATED OVERALL LENGTH OF REINFORCING BARS SHOWN IN THE REINFORCING STEEL LIST INCLUDE A DEDUCTION FOR 90° BENDS.

R.F. - REAR FACE
F.F. - FRONT FACE
B.F. - BOTH FACES

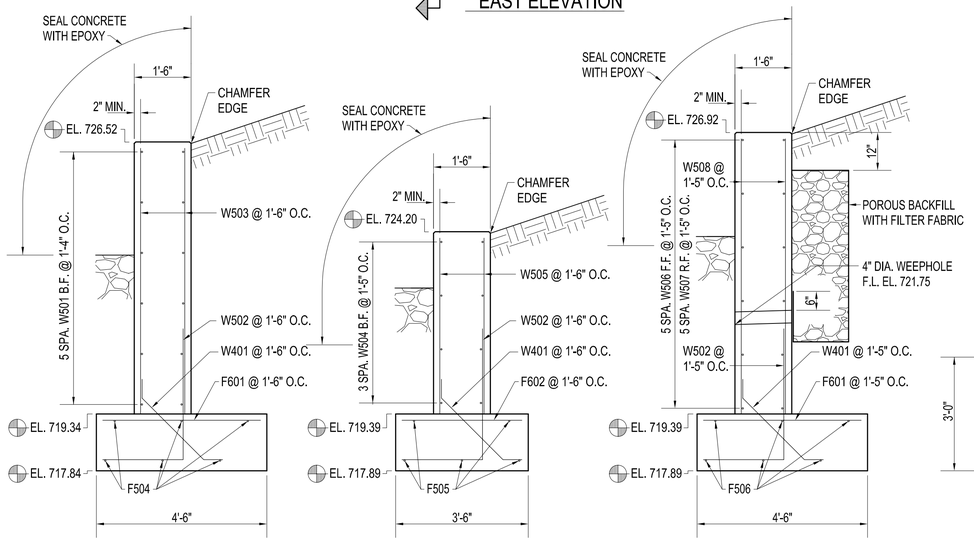


EAST ELEVATION



WEST ELEVATION

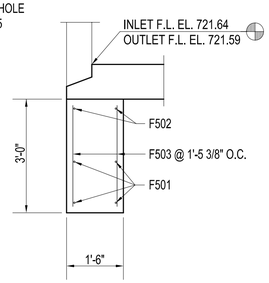
REINFORCING STEEL TABLE, CULVERT 4-3S.9							
MARK	NUMBER	LENGTH	WEIGHT	SHAPE	TYPE	A	B
F501	8	13'-6"	113	ST			
F502	4	10'-2"	42	ST			
F503	32	2'-7"	86	ST			
F504	12	5'-2"	65	ST			
F505	5	3'-2"	17	ST			
F506	6	10'-2"	64	ST			
F601	15	4'-2"	94	ST			
F602	3	3'-2"	14	ST			
W401	18	3'-3"	39	B	1	6"	2'-3"
W501	24	4'-7"	117	ST			
W502	18	5'-6"	103	B	2	2'-1"	3'-6"
W503	16	7'-0"	117	ST			
W504	8	2'-7"	22	ST			
W505	6	4'-7"	29	ST			
W506	6	8'-7"	54	ST			
W507	6	9'-5"	59	ST			
W508	14	7'-4"	107	ST			
TOTAL WEIGHT (LB.) =		1142					



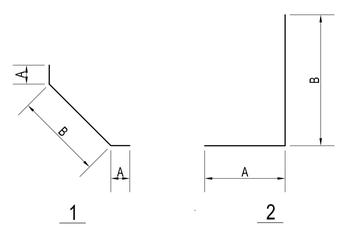
SECTION A-A

SECTION B-B

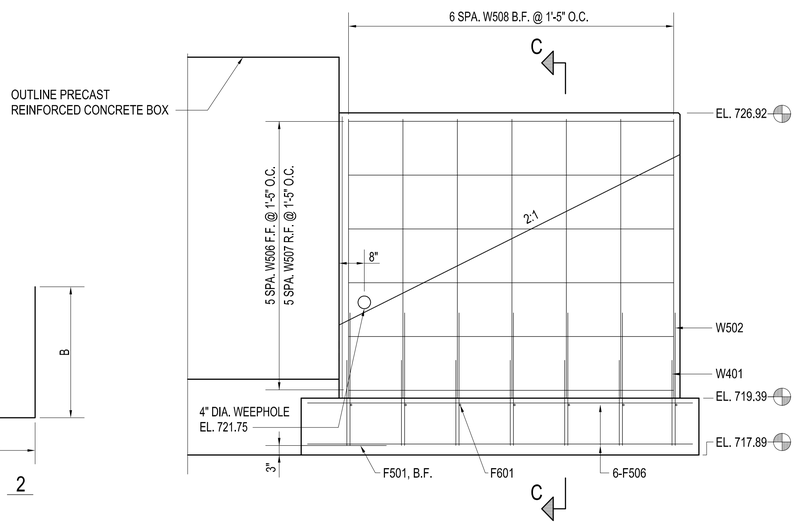
SECTION C-C



SECTION D-D



REINFORCING STEEL BEND DETAILS



WEST ELEVATION, SOUTH WALL

Drawn By: JLE | Checked By: FTO
Date: 2/13/2012 | Revised: N/A | N/A

CULVERT 4-3S.9 REPLACEMENT
HEADWALL DETAILS

FULTON COUNTY ENGINEERING DEPT.
FRANK T. CONWELL P.E., P.S. - COUNTY ENGINEER
ROD CREAGER, P.E., P.S. - CHIEF DEPUTY ENGINEER
9120 Co Rd 14, WAUSEON, OHIO. 43567
PHONE (419)335-3816 FAX (419)335-1091

File: G:\Projects\Culverts\4-3S.9(4)\Headwalls.dwg - Feb 10, 2012 - 1:08pm - Fulton County Engineer's Office

ITEM 603 9' x 6' CONDUIT, TYPE A, 706.05 AS PER PLAN

MEMBRANE WATERPROOFING (SHEET TYPE 2) SHALL BE APPLIED TO THE TOP SURFACE OF THE PRECAST CULVERT SECTIONS AND SHALL EXTEND VERTICALLY DOWN ALL SIDES FOR THE PORTIONS OF THE CULVERT AS SHOWN ON THE DETAIL ON THIS SHEET. THE EXTERIOR JOINT GAP ON THE TOP AND SIDES BETWEEN THE PRECAST CULVERT SECTIONS SHALL BE FILLED WITH PORTLAND CEMENT MORTAR PRIOR TO INSTALLING THE MEMBRANE WATERPROOFING. WRAP AS SPECIFIED IN O.D.O.T. ITEM 603.06 AND CONCRETE SEALING AS SPECIFIED IN O.D.O.T. ITEM 603.08 ARE NOT REQUIRED UNDER THE LIMITS OF THE MEMBRANE WATERPROOFING. PAYMENT FOR THE MEMBRANE WATERPROOFING OF THE PRECAST CONCRETE BOX SURFACES SHALL BE MADE AT THE CONTRACT PRICE BID PER SQUARE YARD FOR ITEM SPECIAL - MEMBRANE WATERPROOFING (SHEET TYPE 2).

WHEN SEALING OF CONCRETE SURFACES (EPOXY) IS SPECIFIED ON THE PRECAST CULVERT SECTIONS BEYOND THE LIMIT OF THE MEMBRANE WATERPROOFING, THE CULVERT SECTIONS SHALL BE SEALED USING AN EPOXY SEALER. PAYMENT FOR THE SEALING OF THE PRECAST CONCRETE BOX SURFACES SHALL BE MADE AT THE CONTRACT PRICE BID PER SQUARE YARD FOR ITEM SPECIAL - SEALING OF CONCRETE SURFACES (EPOXY)

REMOVAL AND DISPOSAL OF EXISTING CULVERT

WHEN NO LONGER REQUIRED TO MAINTAIN TRAFFIC, THE EXISTING CULVERT SHALL BE REMOVED.
REMOVAL OF PIPE SHALL BE IN ACCORDANCE WITH 202.
CONCRETE REMOVED MAY BE USED AS CHANNEL PROTECTION MATERIAL, AS DIRECTED BY THE ENGINEER, PROVIDING THE MATERIAL MEETS THE REQUIREMENTS OF 601.08 FOR TYPE D.

DESIGN LOADING AND STRESSES

PRECAST CONCRETE STRUCTURE:
DESIGN LOADING: HS25
FOR BOX CULVERT SEE CMS SECTION 603

CAST-IN-PLACE STRUCTURE:
REINFORCING STEEL SHALL MEET ASTM A615, A616 OR A617, Fy=60,000 P.S.I.
CONCRETE SHALL BE CLASS C, F"c=4,000 P.S.I.

DESIGN SPECIFICATIONS

THIS STRUCTURE CONFORMS TO "STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES" ADOPTED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS, 1996, INCLUDING THE INTERIM SPECIFICATIONS THROUGH 1999 AND THE ODOT BRIDGE DESIGN MANUAL.

POROUS BACKFILL

POROUS BACKFILL WITH FILTER FABRIC 1'-6" THICK SHALL BE PLACED BEHIND THE WINGWALLS AS SHOWN AND SHALL EXTEND 12" BELOW THE EMBANKMENT SURFACE. GEOTEXTILE FABRIC SHALL BE PLACED BETWEEN THE POROUS BACKFILL AND REPLACED EXCAVATION ADJACENT TO THE STRUCTURE. IT SHALL TURN UNDER THE BOTTOM OF THE POROUS BACKFILL AND RETURN 6" ABOVE THE TOP ELEVATION OF THE WEEPHOLE. GEOTEXTILE FABRIC SHALL CONFORM TO 712.09, TYPE A AND IS INCLUDED WITH THE POROUS BACKFILL FOR PAYMENT.

ITEM SPECIAL, SEALING OF CONCRETE SURFACES

A CONCRETE SEALER SHALL BE APPLIED TO THE SURFACES INDICATED AS DESCRIBED BELOW.
THE EXPOSED SURFACES OF ALL WINGWALLS INCLUDING TOP, BOTH SIDE AND END AREAS DOWN TO THE GROUNDLINE SHALL BE SEALED.
SEE THE PROPOSAL FOR SURFACE PREPARATION REQUIREMENTS, APPLICATION RATES, MATERIAL REQUIREMENTS AND APPLICATION PROCEDURES.

EROSION CONTROL TABLE "ER" , ROAD 4-3

SHEET NUMBER	STATION FROM	STATION TO	207 STRAW BALES FOR EROSION CONTROL, AS PER DETAIL
			EACH
85	23+50	26+20	16
TOTALS TO GENERAL SUMMARY			16

EARTHWORK TABLE "E", ROAD 4-3

SHT. NO.	STATION FROM	STATION TO	203 CUT	203 FILL
86	23+50	26+00	437.5	212.3
TOTALS TO GENERAL SUMMARY			438	212

DRAINAGE TABLE "D" , ROAD 4-3

REFERENCE NUMBER	SHEET NUMBER	STATION FROM	STATION TO	SIDE	202 PIPE REMOVED UNDER 24"	202 PIPE REMOVED 24" AND OVER	202 CORRUGATED PIPE ARCH REMOVED (54")	601 TYPE "D" ROCK CHANNEL PROTECTION	603 TYPE A 9' X 6' CONDUIT	603 TYPE C 8"	603 TYPE C 10"	603 TYPE D 36"
					FT.	FT.	EA.	TON	FT.	FT.	FT.	FT.
D-31	85	23+45	23+95	BOTH				82				
D-32	85	23+52	23+62	LT.	6						10	
D-33	85	23+64	23+76	BOTH			1					
D-34	85	23+67	23+77	RT.	20					20		
D-35	85	25+34	26+19	LT.				27				
D-36	85	25+39	26+10	LT.		24						40
D-37	85	23+73	23+81	BOTH					56			
TOTALS TO GENERAL SUMMARY					26	24	1	109	56	20	10	40

GENERAL SUMMARY, ROAD 4-3 & CULVERT 4-3S.9

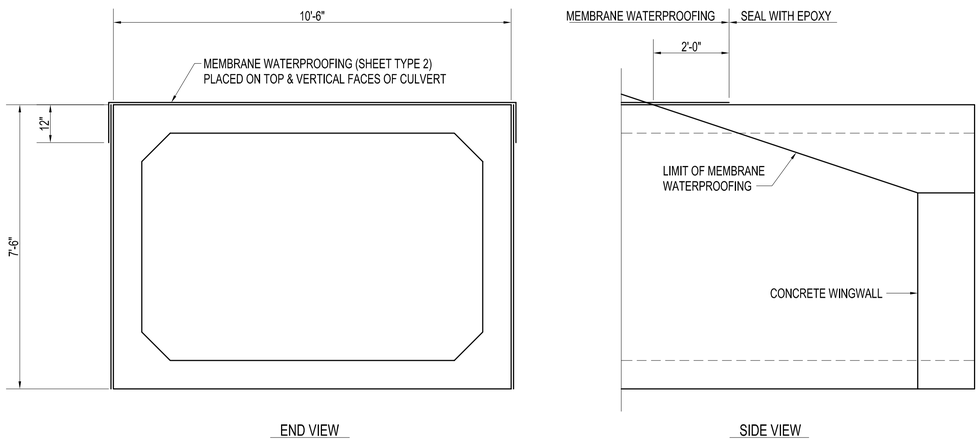
SHEET NO.	ITEM	GRAND TOTAL	UNIT	DESCRIPTION	ORIGIN
				EARTHWORK	
85	201	1	LUMP	CLEARING AND GRUBBING - DITCH PORTION	PLAN
88	202	26	FT.	PIPE REMOVED UNDER 24"	TABLE D
88	202	24	FT.	PIPE REMOVED 24" AND OVER	TABLE D
88	202	1	LUMP	CORRUGATED METAL PIPE ARCH REMOVED	TABLE D
88	202	84	S.Y.	PAVEMENT REMOVED FOR BUTT JOINTS	TABLE P
85	503	55	C.Y.	UNCLASSIFIED EXCAVATION	PLAN
88	203	438	C.Y.	EXCAVATION	TABLE E
88	203	212	C.Y.	EMBANKMENT	TABLE E
88	204	59	S.Y.	SUBGRADE COMPACTION - PAVEMENT	TABLE P
88	204	108	S.Y.	SUBGRADE COMPACTION - DRIVES	TABLE A
				EROSION CONTROL	
88	207	16	EA.	STRAW BALES FOR EROSION CONTROL, AS PER DETAIL	TABLE ER
88	601	109	TON	ROCK CHANNEL PROTECTION, TYPE D, WITHOUT FILTER	TABLE D
				DRAINAGE	
88	603	20	FT.	8" CONDUIT, TYPE C	TABLE D
88	603	10	FT.	10" CONDUIT, TYPE C	TABLE D
88	603	40	FT.	36" CONDUIT, TYPE D	TABLE D
88	603	54	FT.	9' x 6' CONDUIT, TYPE A	TABLE D
87	509	1142	POUND	EPOXY COATED REINFORCING STEEL, GRADE 60	STEEL TABLE
85	511	13	C.Y.	CLASS C CONCRETE, HEADWALLS	PLAN
85	518	10	C.Y.	POROUS BACKFILL WITH FILTER FABRIC	PLAN
85	SPECIAL	93	S.Y.	SPECIAL MEMBRANE WATERPROOFING (SHEET TYPE 2)	PLAN
85	SPECIAL	40	S.Y.	SPECIAL SEALING OF CONCRETE SURFACES (EPOXY)	PLAN
				PAVEMENT	
88	304	20	C.Y.	AGGREGATE BASE, T = 12"	TABLE P
88	407	21	GAL.	TACK COAT (0.08 GAL./S.Y.)	TABLE P & A
88	408	24	GAL.	PRIME COAT (0.40 GAL./S.Y.)	TABLE P & A
88	411	18	C.Y.	AGGREGATE BASE FOR DRIVEWAYS	TABLE A
88	448	4	C.Y.	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, PG 64-22, T = 2.5"	TABLE P & A
88	448	9	C.Y.	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, PG 64-22, T = 1.5"	TABLE P & A
88	617	4	C.Y.	RECONDITIONING OF SHOULDERS, T = 4"	TABLE P
				INCIDENTALS	
	623	1	LUMP	CONSTRUCTION LAYOUT AND STAKING - ROAD 4-3 DITCH PORTION	
	623	1	LUMP	CONSTRUCTION LAYOUT AND STAKING - 9'x6' CONDUIT PORTION	
	642	0.05	MILE	CENTER LINE, TYPE 1	
	642	0.10	MILE	EDGE LINE, TYPE 1	

DRIVEWAY APPROACH TABLE "A" , ROAD 4-3

REFERENCE NUMBER	SHEET NUMBER	STATION CENTERLINE	STATION TYPE	SIDE	PROPOSED DIMENSIONS WIDTH FRONT @ E/P	WIDTH BACK @ R/W	LENGTH	PROPOSED AREA	204 SUBGRADE COMPACTION	411 AGGREGATE BASE FOR DRIVEWAYS 6"
					FT.			S.F.	S.Y.	C.Y.
A-83	85	25+59	STONE FIELD	LT.	56.0	20.0	41.8	976.0	108.4	18.1
TOTALS TO GENERAL SUMMARY									108	18

PAVEMENT TABLE "P" , ROAD 4-3

REFERENCE NO.	SHEET NO.	STATION FROM	STATION TO	LENGTH	EXISTING PAVEMENT WIDTH	PROPOSED PAVEMENT WIDTH	202 PAVEMENT REMOVAL FOR BUTT JOINTS	204 SUBGRADE COMPACTION	304 AGGREGATE BASE (12")	407 TACK COAT (0.08 GAL./S.Y.)	408 PRIME COAT (0.4 GAL./S.Y.)	448 ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, PG 64-22, (2.5")	448 ASPHALT CONCRETE SURFACE COURSE, TYPE 1, PG 64-22, (1.5")	617 RECONDITIONING OF SHOULDERS (4')
				L.F.	FEET	FEET	S.Y.	S.Y.	CY.	GALLON	GALLON	C.Y.	C.Y.	C.Y.
P-10	85	23+31	23+51	20.0	19.0	19.0	42.2			3.4			1.8	0.7
P-11	85	23+51	23+64	13.0	19.0	19.0				2.2			1.1	0.5
P-12	85	23+64	23+92	28.0	19.0	19.0		59.1	19.7	4.7	23.6	4.1	2.5	1.0
P-13	85	23+92	24+11	19.0	19.0	19.0				3.2			1.7	0.7
P-14	85	24+11	24+31	20.0	19.0	19.0	42.2			3.4			1.8	0.7
TOTALS TO GENERAL SUMMARY							84	59	20	17	24	4	9	4



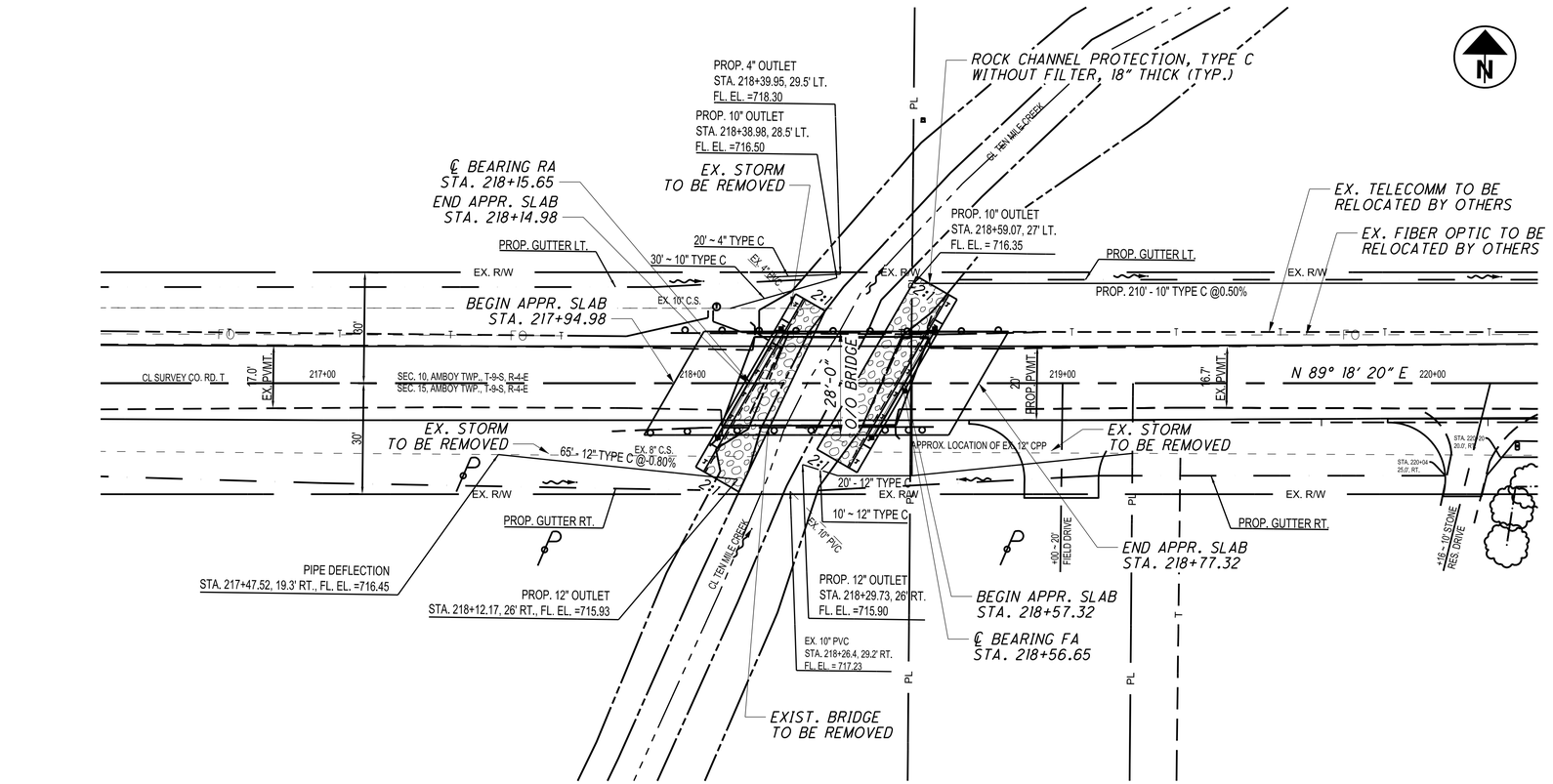
BOX CULVERT DETAIL

Drawn By: JLE | Checked By: FTO
Date: 2/13/2012 | Revised: N/A | N/A

CULVERT 4-3S.9 REPLACEMENT
CULVERT 4-3S.9 GENERAL NOTES AND QUANTITIES

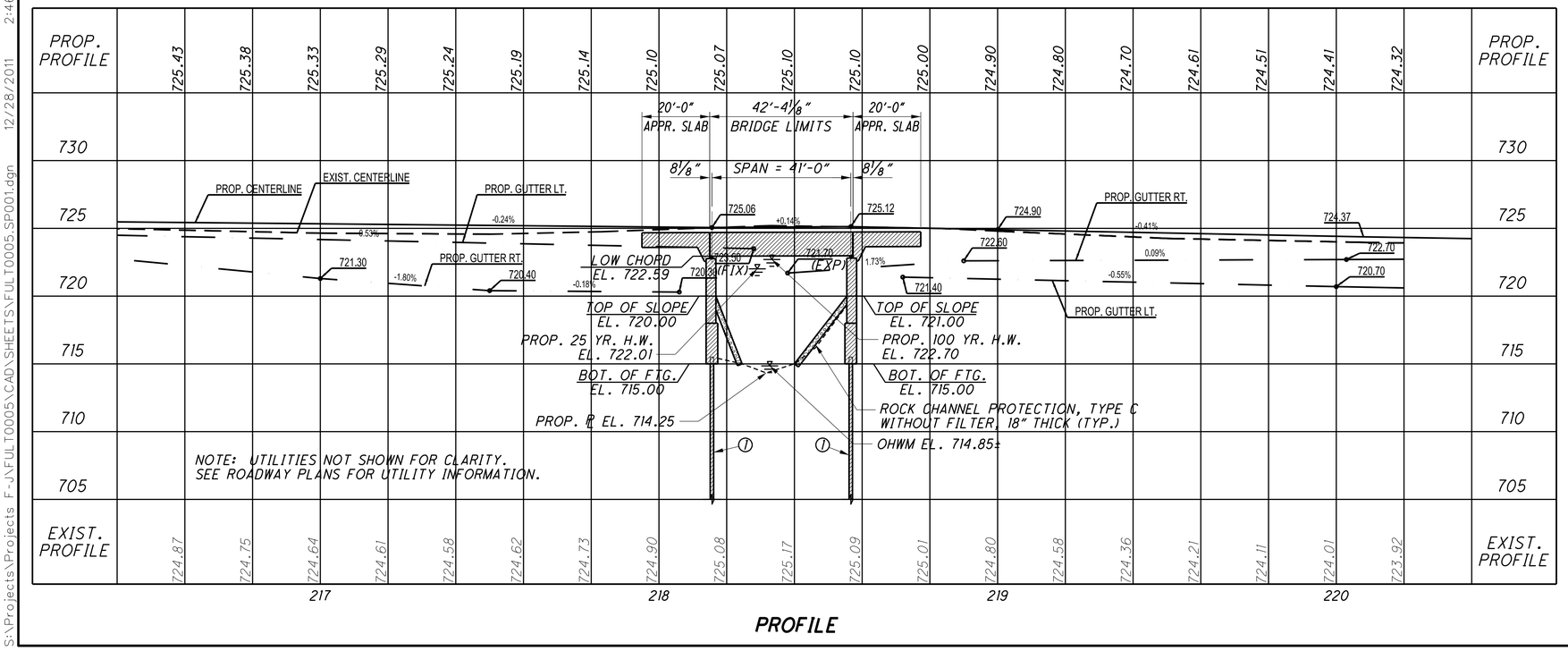
FULTON COUNTY ENGINEERING DEPT.
FRANK T. ONWELLER, P.E., P.S., COUNTY ENGINEER
ROD DREAGER, P.E., P.S., CHIEF DEPUTY ENGINEER
9120 Co Rd 14, WAUSEON, OHIO, 43567
PHONE (419)335-3816 FAX (419)335-1091

File: G:\Projects\Culverts\4-3S.9(4)\general notes and summary.dwg - Feb 10, 2012 - 1:07pm - Fulton County Engineer's Office



NOTE: PROPOSED GUARDRAIL NOT SHOWN. SEE ROADWAY PLANS FOR GUARDRAIL DETAILS.

PLAN



PROFILE

BENCHMARK DATA

BM #1 - STA. 212+79.39, 22.47' RT. ELEV. 728.24
DH NAIL W/ FULTON CO. TAG IN N. FACE PP. #4105

BM #2 - STA. 219+24.10, 24.49' RT. ELEV. 724.86
DH NAIL W/ FULTON CO. TAG IN N. FACE PP.

NOTES

EARTHWORK LIMITS SHOWN ARE APPROXIMATE. ACTUAL SLOPES SHALL CONFORM TO PLAN CROSS SECTIONS.

LEGEND

① - HP 12X53 PILES
REAR ABUTMENT ESTIMATED PILE PAY LENGTH = 40 FT.
FORWARD ABUTMENT ESTIMATED PILE PAY LENGTH = 40 FT.

OHWM = ORDINARY HIGH WATER MARK

HYDRAULIC DATA

DRAINAGE AREA = 9.52 SQ. MILES

Q (25) =	703 CFS	V (25) =	4.18 FT/S
Q (100) =	870 CFS	V (100) =	4.24 FT/S

EXISTING STRUCTURE

TYPE: SINGLE SPAN STEEL BEAM WITH CORRUGATED METAL DECK ON PILE BENTS IN FRONT OF CONCRETE GRAVITY ABUTMENTS

SPANS: 31'-0" C/C BEARINGS
ROADWAY: 24'-0" F/F GUARD RAIL
LOADING: HS-15
SKEW: 30° 00' 00" L.F.
APPROACH SLABS: NONE
ALIGNMENT: TANGENT
CROWN: 0.016 FT/FT
STRUCTURAL FILE NUMBER: 2631938
DATE BUILT: 1910 (MAJOR REHABILITATION: 1960)
DISPOSITION: POOR

PROPOSED STRUCTURE

TYPE: SINGLE SPAN PRECAST PRESTRESSED BOX BEAM SUPERSTRUCTURE WITH ASPHALT CONCRETE WEARING SURFACE ON CAPPED PILE ABUTMENTS

SPANS: 41'-0" C/C BEARINGS
ROADWAY: 28'-0" F/F GUARDRAIL
LOADING: HL-93
SKEW: 30° 00' 00" L.F.
APPROACH SLABS: 20'-0" LONG (AS-1-81)
ALIGNMENT: TANGENT
CROWN: 0.021 FT/FT
COORDINATES: LATITUDE N 41° 42'
LONGITUDE W 83° 56'

The Mannik & Smith Group, Inc.
Civil Engineering, Surveying and Environmental Consulting

DESIGNED JRC | DRAWN BFK | REVIEWED MTM | DATE 12/11
CHECKED BCR | REVISED | STRUCTURE FILE NUMBER 2631865

FULTON COUNTY
STA. 218+14.98
STA. 218+57.32

SITE PLAN
BRIDGE NO. FUL-CT640-0090
FULTON COUNTY ROAD T64.9 OVER TEN MILE CREEK

FUL-CT640-0090

1 / 8

90
97

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STANDARD DRAWINGS AND SUPPLEMENTAL SPECIFICATIONS

REFER TO THE FOLLOWING STANDARD BRIDGE DRAWING(S):

AS-1-81 REVISED 7-19-02

CPA-1-08 REVISED 7-18-08

DS-1-92 REVISED 7-18-03

PSBD-2-07 REVISED 1-21-11

TST-1-99 REVISED 4-18-08

DESIGN SPECIFICATIONS

DESIGN SPECIFICATIONS: THIS STRUCTURE CONFORMS TO THE "LRFD BRIDGE DESIGN SPECIFICATIONS" ADOPTED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS, 2007, AND THE ODOT BRIDGE DESIGN MANUAL, 2007.

DESIGN LOADING

DESIGN LOADING: HL-93

FUTURE WEARING SURFACE (FWS) OF 0.060 KIPS/SQ.FT.

DESIGN DATA

CONCRETE CLASS QSC1 - COMPRESSIVE STRENGTH 4.0 KSI (SUBSTRUCTURE)

REINFORCING STEEL - MINIMUM YIELD STRENGTH 60 KSI

STEEL H-PILES - ASTM A709 GRADE 50 - YIELD STRENGTH 50 KSI

CONCRETE FOR PRESTRESSED BEAMS:
COMPRESSIVE STRENGTH (FINAL) - 7 KSI
COMPRESSIVE STRENGTH (RELEASE) - 5 KSI

PRESTRESSING STRAND:
AREA = 0.153 SQ.IN.
ULTIMATE STRENGTH = 270 KSI
INITIAL STRESS = 202.5 KSI (LOW RELAXATION STRANDS)

LOAD DISTRIBUTION FACTORS:

DEAD LOAD DISTRIBUTION: DEAD LOADS HAVE BEEN DISTRIBUTED EQUALLY TO ALL BEAMS

LIVE LOAD DISTRIBUTION (INTERIOR MEMBERS):
LIVE LOAD MOMENT = 0.312 FOR TRUCK & LANE LOADS (2 LANES LOADED)

LIVE LOAD MOMENT = 0.316 FOR TRUCK & LANE LOADS (1 LANE LOADED)

LIVE LOAD SHEAR = 0.719 FOR TRUCK & LANE LOADS (2 LANES LOADED)

LIVE LOAD SHEAR = 0.719 FOR TRUCK & LANE LOADS (1 LANE LOADED)

LIVE LOAD DISTRIBUTION (EXTERIOR MEMBERS):
LIVE LOAD MOMENT = 0.328 FOR TRUCK & LANE LOADS (2 LANES LOADED)

LIVE LOAD MOMENT = 0.358 FOR TRUCK & LANE LOADS (1 LANE LOADED)

LIVE LOAD SHEAR = 0.719 FOR TRUCK & LANE LOADS (2 LANES LOADED)

LIVE LOAD SHEAR = 0.719 FOR TRUCK & LANE LOADS (1 LANE LOADED)

DECK PROTECTION METHOD

MEMBRANE WATERPROOFING

ASPHALT CONCRETE OVERLAY

STEEL DRIP STRIP

SEALING OF CONCRETE SURFACES

UTILITY LINES

THE UTILITY(IES) SHALL BEAR ALL EXPENSE INVOLVED IN RELOCATING (INSTALLING) THE AFFECTED UTILITY LINES. THE CONTRACTOR AND UTILITY(IES) ARE TO COOPERATE BY ARRANGING THEIR WORK IN SUCH A MANNER THAT INCONVENIENCE TO EITHER WILL BE HELD TO A MINIMUM.

SURVEY DISC ON STRUCTURE

THE CONTRACTOR SHALL NOTIFY THE ENGINEER AT LEAST ONE (1) WEEK IN ADVANCE OF POURING THE CONCRETE FOR COMPLETION OF THE ABUTMENT. THE ENGINEER WILL PROVIDE THE CONTRACTOR ONE (1) SURVEY DISC FOR THE STRUCTURE (OBTAINED FROM THE COUNTY ENGINEER) WHICH THE CONTRACTOR SHALL PLACE IN THE SURFACE OF THE FRESH CONCRETE. THE LOCATION OF THE DISC SHALL BE ON THE ABUTMENT, AND ON A FLAT, HORIZONTAL SURFACE BEYOND THE EDGE OF THE DECK AND RAILING. THE BENCHMARK SHALL BE ACCESSIBLE TO A SURVEYOR'S ROD WITHOUT ANY OBSTRUCTIONS. COST OF THIS WORK SHALL BE INCLUDED WITH ITEM 511.

ITEM 202, STRUCTURE REMOVED, AS PER PLAN

WHEN NO LONGER REQUIRED TO MAINTAIN TRAFFIC, THE EXISTING BRIDGE SHALL BE REMOVED IN ITS ENTIRETY IN ACCORDANCE WITH 503 - EXCAVATION FOR STRUCTURES. EXISTING CONCRETE REMOVED MAY BE USED AS CHANNEL PROTECTION MATERIAL, AS DIRECTED BY THE ENGINEER PROVIDING THE MATERIAL MEETS THE REQUIREMENTS OF 601.08.

PILES NOT DRIVEN TO BEDROCK

PILE DESIGN LOADS (SAFE BEARING CAPACITY) FOR THE ABUTMENT PILES IS 35.03 TONS PER PILE.

THE PILES SHALL BE DRIVEN UNTIL THEY HAVE AT LEAST ATTAINED THE REQUIRED SAFE BEARING VALUE R.

THE CONTRACTOR SHALL SELECT A HAMMER THAT IS COMPATIBLE WITH THE DRIVING CONDITIONS. IF THE HAMMER USED IS FOUND TO BE UNSATISFACTORY, CORRECT MEASURES SHALL BE TAKEN AS NECESSARY TO PRODUCE SATISFACTORY RESULTS.

THE ENERGY OF THE HAMMER SHALL NOT BE LESS THAN 15,000 FOOT-POUNDS PER BLOW. THE RAM OF A DIESEL HAMMER SHALL WEIGHT NOT LESS THAN 2,700 POUNDS.

THE RAM OF A DROP HAMMER HALL HAVE A MINIMUM WEIGHT OF 3,000 POUNDS. THE HEIGHT OF FALL FOR DROP HAMMERS SHALL NOT EXCEED 7 FEET.

40 FEET PER PILE WAS USED FOR ESTIMATING PURPOSES ONLY.

BEARING PAD SHIMS

BEARING PAD SHIMS: PLACE 1/8" THICK PREFORMED BEARING PAD SHIMS, PLAN AREA 7 INCHES BY 11 INCHES, UNDER THE ELASTOMERIC BEARING PADS WHERE REQUIRED FOR PROPER BEARING. FURNISH TWO SHIMS PER BEAM. THE COUNTY WILL MEASURE THIS ITEM BY THE TOTAL NUMBER SUPPLIED. THE COUNTY WILL PAY FOR ACCEPTED QUANTITIES AT THE CONTRACT PRICE FOR ITEM 516 - 1/8" PREFORMED BEARING PADS. ANY UNUSED SHIMS WILL BECOME THE PROPERTY OF THE COUNTY.

ITEM 503, UNCLASSIFIED EXCAVATION, AS PER PLAN

UNCLASSIFIED EXCAVATION SHALL BE IN ACCORDANCE WITH 503 EXCEPT THAT THE BACKFILL MATERIAL BEHIND THE ABUTMENT SHALL BE 203 GRANULAR MATERIAL PLACED IN LIFTS NOT TO EXCEED A THICKNESS OF MORE THAN 6 INCHES.

ITEM 512, SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)

A CONCRETE SEALER SHALL BE APPLIED TO THE SURFACES INDICATED IN THESE PLANS AND AS DESCRIBED BELOW.

THE EXPOSED SURFACES OF THE ABUTMENT DOWN TO THE GROUNDLINE, EXCLUDING THE BEARING SEATS.

THE EXPOSED SURFACES OF ALL WINGWALLS INCLUDING TOP AND BOTH SIDES AND END AREAS DOWN TO THE GROUND LINE SHALL BE SEALED.

THE PRESTRESSED BOX BEAM EXTERIOR FACE PLUS 6 INCHES UNDERDECK AND INTERIOR BEAM FACES FROM BOTTOM OF KEY TO BOTTOM OF BEAM PLUS 6 INCHES UNDERDECK, EACH SIDE OF BEAM.

SEE PROPOSAL FOR SURFACE PREPARATION REQUIREMENTS, APPLICATION RATES, MATERIAL REQUIREMENTS, AND APPLICATION PROCEDURES.

ESTIMATED QUANTITIES

CALC BY: BFK DATE: 11/28/11
CHKD BY: BCR DATE: 12/2/11

ITEM	TOTAL	UNIT	DESCRIPTION	ABUTS.	SUPER.	GEN.	REFERENCE
202	LUMP		STRUCTURE REMOVED, OVER 20 FOOT SPAN			LUMP	
202	123	SQ YD	WEARING COURSE REMOVED		123		
407	10	GALLON	TACK COAT		10		
407	6	GALLON	TACK COAT FOR INTERMEDIATE COURSE		6		
448	11	CU YD	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, PG64-22 (VARIABLE THICKNESS)		11		
448	5	CU YD	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, PG64-22 (1.50")		5		
503	382	CU YD	UNCLASSIFIED EXCAVATION, AS PER PLAN	382			2/8
505	LUMP		PILE DRIVING EQUIPMENT MOBILIZATION			LUMP	
507	640	FT	STEEL PILES HP12X53, AS PER PLAN	640			2/8
509	9567	POUND	EPOXY COATED REINFORCING STEEL	9567			
511	82	CU YD	CLASS C CONCRETE, ABUTMENT INCLUDING FOOTING	82			
512	136	SQ YD	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE), AS PER PLAN	54	82		
512	147	SQ YD	SPECIAL - WATERPROOFING, MISC.: REINFORCED WATERPROOFING MEMBRANE - GEOTAC POLYESTER HS		147		3/8
515	7	EACH	PRESTRESSED CONCRETE NON-COMPOSITE BOX BEAM BRIDGE MEMBERS, LEVEL 1, B21-48		7		
516	122	SQ FT	1" PREFORMED EXPANSION JOINT FILLER		122		
516	57	FT	2 INCH DEEP JOINT SEALER, AS PER PLAN		57		3/8
516	57	FT	SPECIAL - SAWING AND SEALING BITUMINOUS CONCRETE JOINTS		57		
516	14	EACH	1/8" PREFORMED BEARING PAD, 711.21	14			
516	28	EACH	ELASTOMERIC BEARING WITH INTERNAL LAMINATES ONLY (NEOPRENE) (7"X9"X2.06" THICK)	28			
517	93	FT	RAILING (TWIN STEEL TUBE)		93		
518	63	CU YD	POROUS BACKFILL WITH FILTER FABRIC	63			
518	99	FT	SPECIAL - STEEL DRIP STRIP		99		
518	108	FT	6" PERFORATED CORRUGATED PLASTIC PIPE, AS PER PLAN	108			2/8
518	52	FT	6" NON-PERFORATED CORRUGATED PLASTIC PIPE, INCLUDING SPECIALS, AS PER PLAN	52			2/8
526	125	SQ YD	REINFORCED CONCRETE APPROACH SLABS (T=13")			125	
601	64	CU YD	ROCK CHANNEL PROTECTION, TYPE C WITHOUT FILTER	64			

ITEM 518, 6" PERFORATED CORRUGATED PLASTIC PIPE, AS PER PLAN

CORRUGATED PIPE USED IN ABUTMENT DRAINAGE SHALL BE 6 INCH DIAMETER, PLASTIC CORRUGATED AS PER SPECIAL PROVISION 944, AASHTO M924.

ITEM 518, 6" NON-PERFORATED CORRUGATED PLASTIC PIPE, INCLUDING SPECIALS, AS PER PLAN

CORRUGATED PIPE USED IN ABUTMENT DRAINAGE SHALL BE 6 INCH PLASTIC CORRUGATED AS PER SPECIAL PROVISION 944, AASHTO M924. THIS ITEM SHALL INCLUDE ALL ELBOWS, TEES, AND END CAPS AS REQUIRED TO COMPLETE THE ABUTMENT DRAINAGE SYSTEM.

DESIGN AGENCY
The Mannik & Smith Group, Inc.
1800 INDIAN WOOD CIRCLE
MAUMEE, OHIO 43537
TELE (419) 891-2222
FAX (419) 891-2555

DESIGNED JRC | DRAWN BFK | CHECKED BCR | REVIEWED MTM | DATE 12/11 | REVISED

STRUCTURE FILE NUMBER 2631865

GENERAL NOTES AND ESTIMATED QUANTITIES
BRIDGE NO. FUL-CT640-0090
FULTON COUNTY ROAD T64.9 OVER TEN MILE CREEK

FUL-CT640-0090

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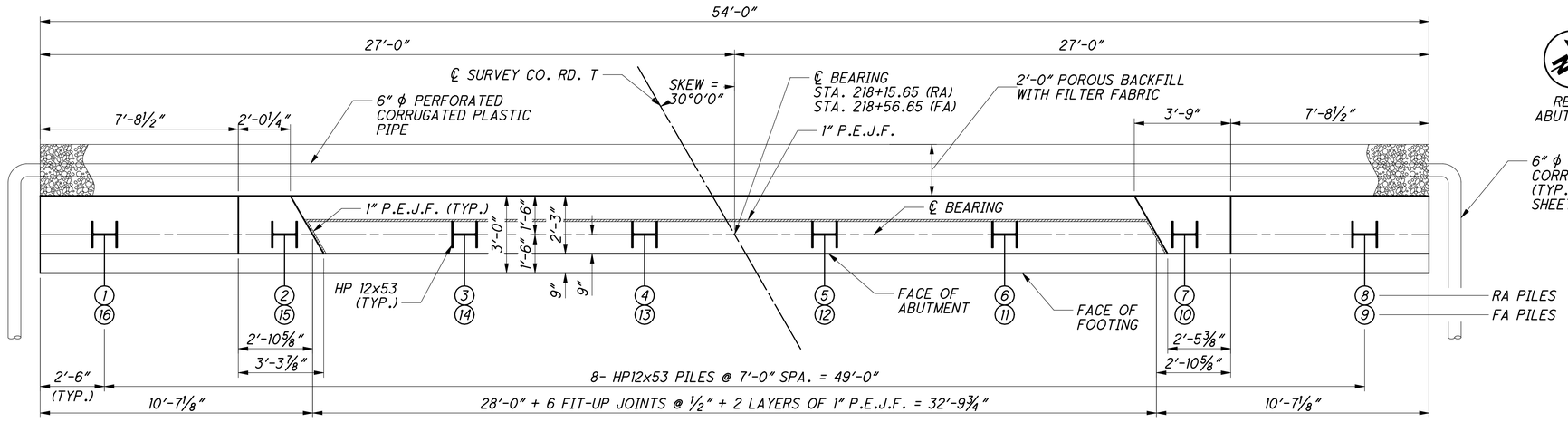


PLAN

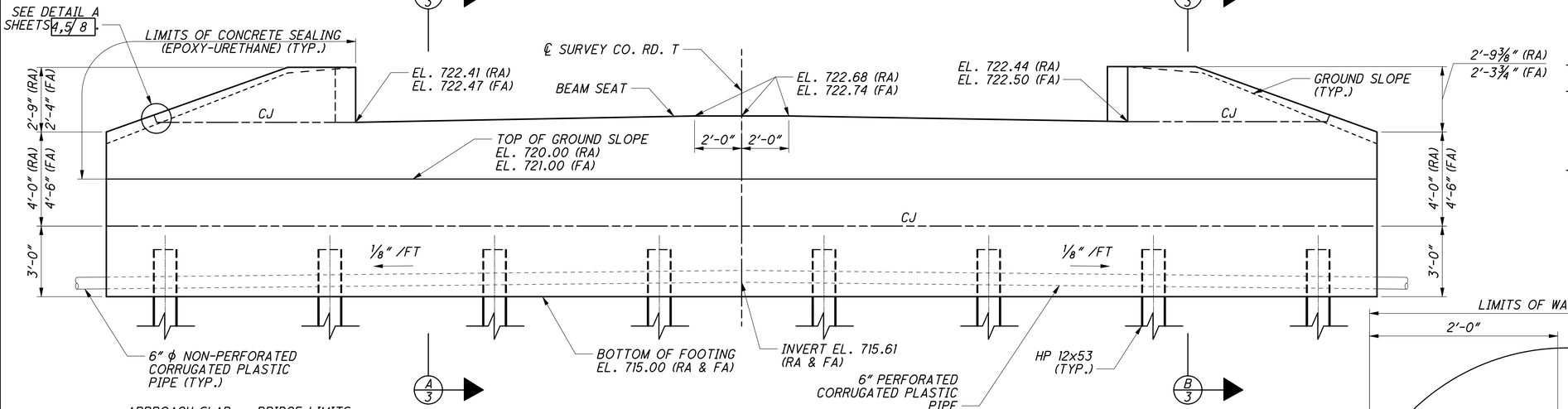
(REAR ABUTMENT SHOWN, FORWARD SIMILAR OPPOSITE HAND)

REAR ABUTMENT

FORWARD ABUTMENT

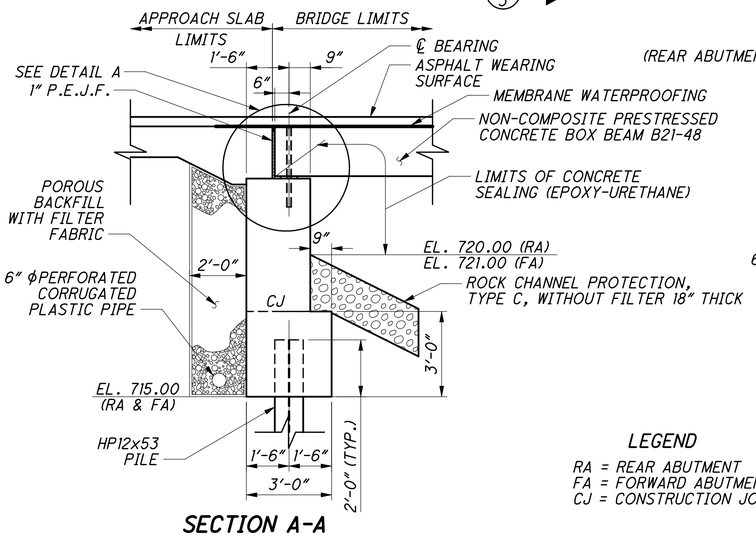
NOTES

- POROUS BACKFILL WITH FILTER FABRIC, 2 FEET THICK SHALL EXTEND UP TO THE BOTTOM OF APPROACH SLAB, TO 1 FOOT BELOW THE EMBANKMENT SURFACE, AND LATERALLY TO THE ENDS OF THE WINGWALLS.
- FIXED ANCHOR DOWEL (REAR ABUTMENT) PROCEDURE: PLACE PREFORMED EXPANSION JOINT FILLER. DRILL AND CLEAN DOWEL HOLE. PLACE NON-SHRINKAGE GROUT AS PER STD. DWG. PSBD-1-93, DOWEL BAR, AND P.E.J.F. PLUG. INCLUDE WITH ITEM 515 FOR PAYMENT.
- EXPANSION ANCHOR DOWEL (FORWARD ABUTMENT) PROCEDURE: PLACE PREFORMED EXPANSION JOINT FILLER, DRILL AND CLEAN DOWEL HOLE. PLACE 705.04 JOINT SEALER AS PER STD. DWG. PSBD-1-93 DOWEL BAR, AND P.E.J.F. PLUG. INCLUDE WITH ITEM 515 FOR PAYMENT.
- P.E.J.F. = PREFORMED EXPANSION JOINT FILLER
- ABUTMENT CONCRETE: DO NO PLACE THE ABUTMENT CONCRETE ABOVE THE BRIDGE SEAT CONSTRUCTION JOINT UNTIL PRESTRESSED CONCRETE BOX BEAMS HAVE BEEN ERECTED.
- SEALING OF BEAM SEATS: IF THE BEAM SEATS ARE SEALED WITH AN EPOXY OR NON-EPOXY SEALER PRIOR TO SETTING THE BEARINGS, DO NOT APPLY SEALER TO THE CONCRETE SURFACES UNDER THE PROPOSED BEARING LOCATIONS. IF THESE LOCATIONS ARE SEALED, REMOVE THE SEALER TO THE SATISFACTION OF THE ENGINEER PRIOR TO SETTING THE BEARINGS. THE COUNTY WILL NOT PAY FOR THIS REMOVAL.

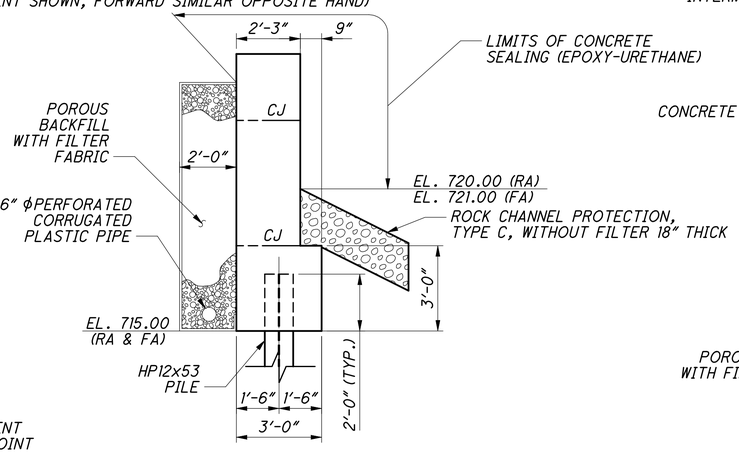


ELEVATION

(REAR ABUTMENT SHOWN, FORWARD SIMILAR OPPOSITE HAND)



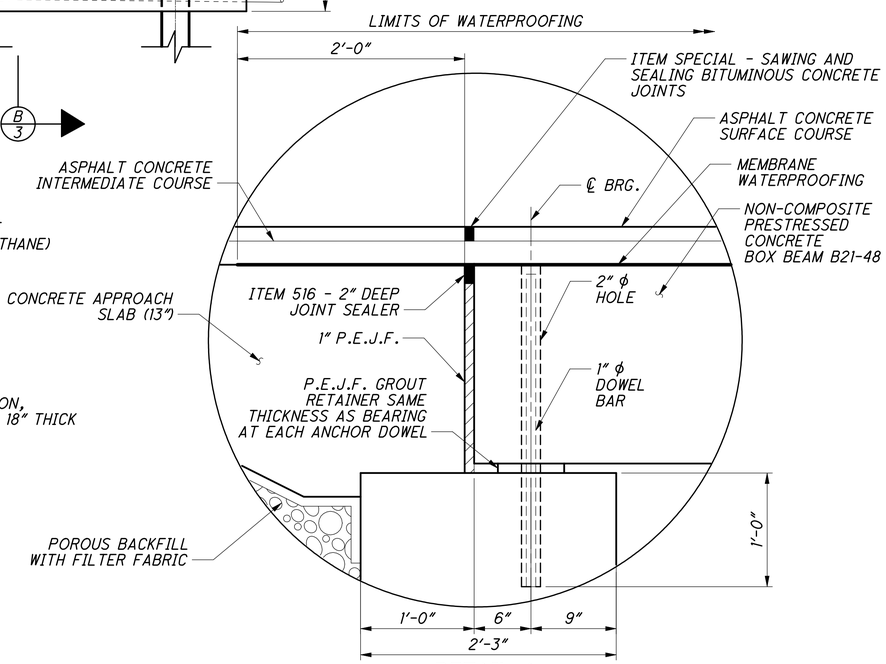
SECTION A-A



SECTION B-B

LEGEND

RA = REAR ABUTMENT
FA = FORWARD ABUTMENT
CJ = CONSTRUCTION JOINT



DETAIL A

The Mannik & Smith Group, Inc.
Civil Engineering, Surveying and Environmental Consulting

DESIGNED JRC | DRAWN BFK | CHECKED BCR | REVIEWED MTM | DATE 12/11 | REVISED | STRUCTURE FILE NUMBER 2631865

ABUTMENT DETAILS
BRIDGE NO. FUL-CT640-0090
FULTON COUNTY ROAD T64.9 OVER TEN MILE CREEK

FUL-CT640-0090

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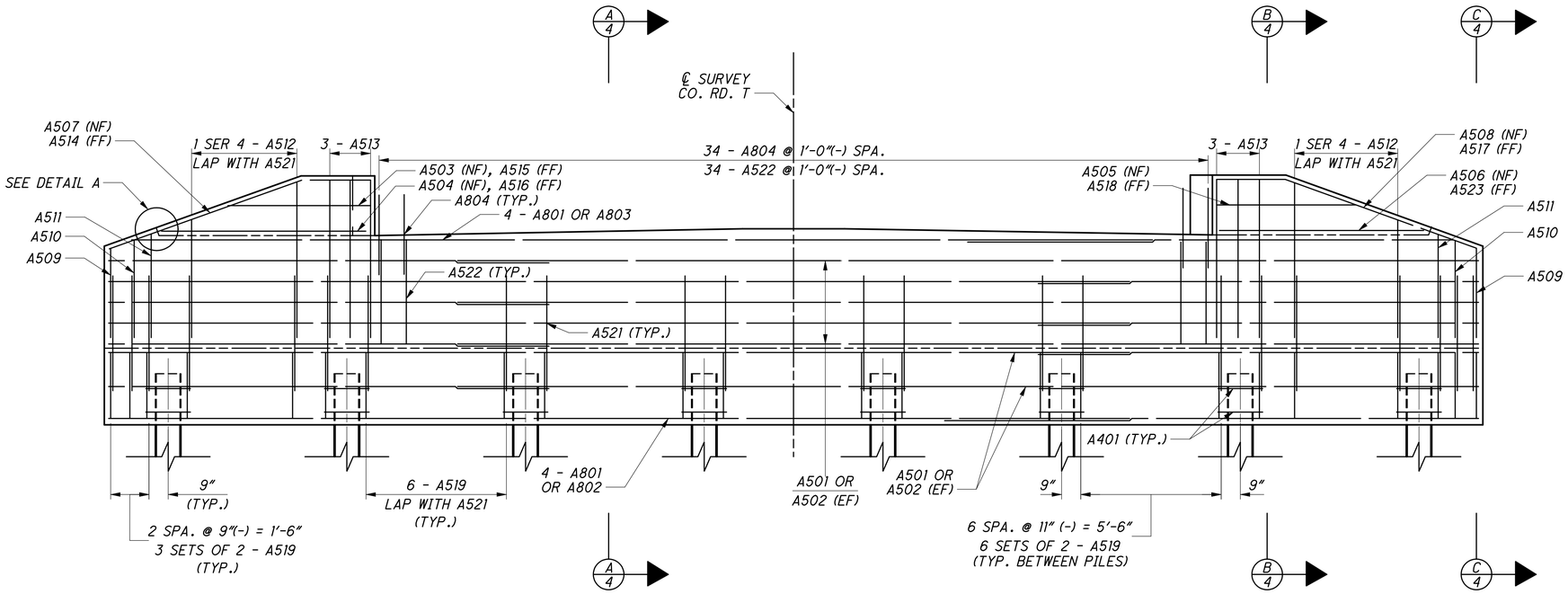

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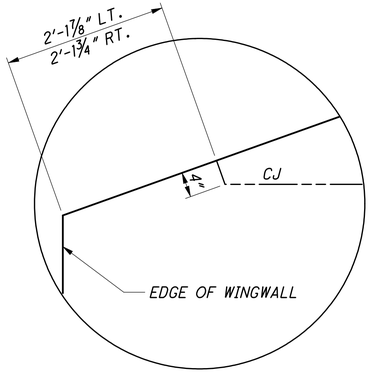


DETAIL A

LEGEND

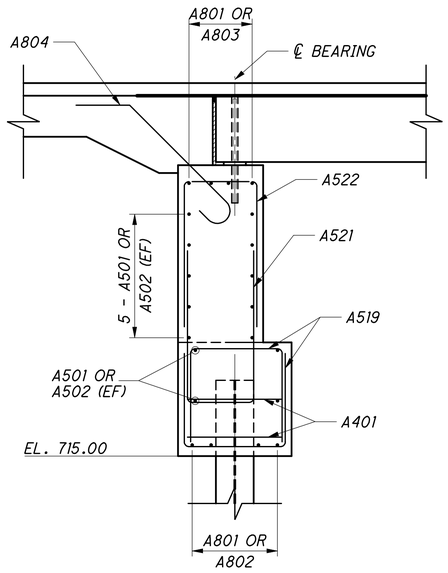
- NF = NEAR FACE
- FF = FAR FACE
- EF = EACH FACE
- CJ = CONSTRUCTION JOINT

NOTES

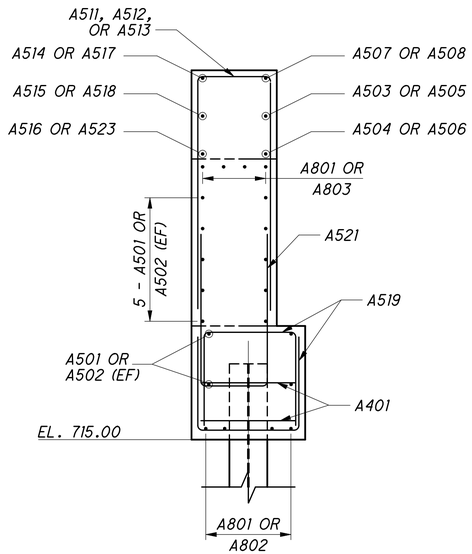
- BRIDGE SEAT REINFORCING, SETTING ANCHORS: ACCURATELY PLACE REINFORCING STEEL IN THE VICINITY OF THE BRIDGE SEAT TO AVOID INTERFERENCE WITH THE DRILLING OF ANCHOR BAR HOLES OR PRE-SETTING OF BEARING ANCHORS.
- SEE SHEET 3/8 FOR FIXED ANCHOR DOWEL DETAILS.
- MINIMUM REINFORCING SPLICE LENGTHS SHALL BE AS FOLLOWS UNLESS OTHERWISE NOTED:

  #5 BAR - 2'-5"
  #8 BAR - 7'-3"

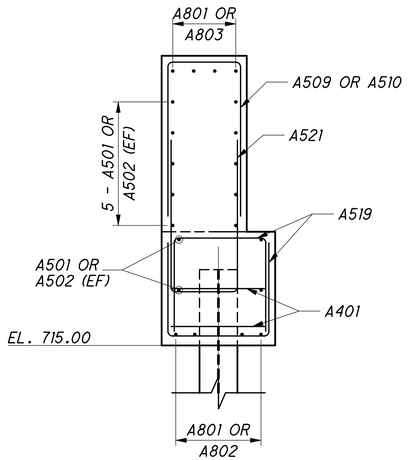
- MINIMUM CLEARANCE TO REINFORCING STEEL SHALL BE 2" UNLESS OTHERWISE NOTED. CLEARANCE TO FOOTING STIRRUPS SHALL BE 3" MINIMUM.
- FOR ADDITIONAL DETAILS, SEE ODOT STD. DWG. CPA-1-08.



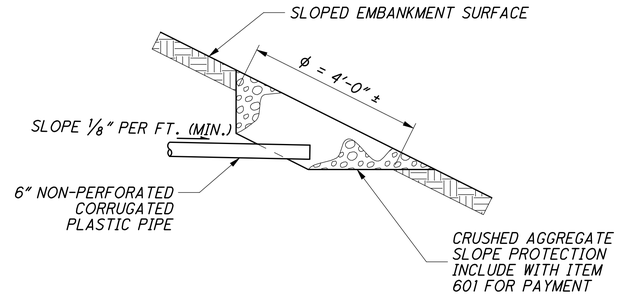
SECTION A-A



SECTION B-B



SECTION C-C



OUTLET DETAIL

The Mannik & Smith Group, Inc.
Civil Engineering, Surveying and Environmental Consulting

DESIGNED JRC | DRAWN BFK | CHECKED BCR | REVIEWED MTM | DATE 12/11 | REVISED | STRUCTURE FILE NUMBER 2631865

REAR ABUTMENT REINFORCING DETAIL
BRIDGE NO. FUL-CT640-0090
FULTON COUNTY ROAD T64.9 OVER TEN MILE CREEK

FUL-CT640-0090

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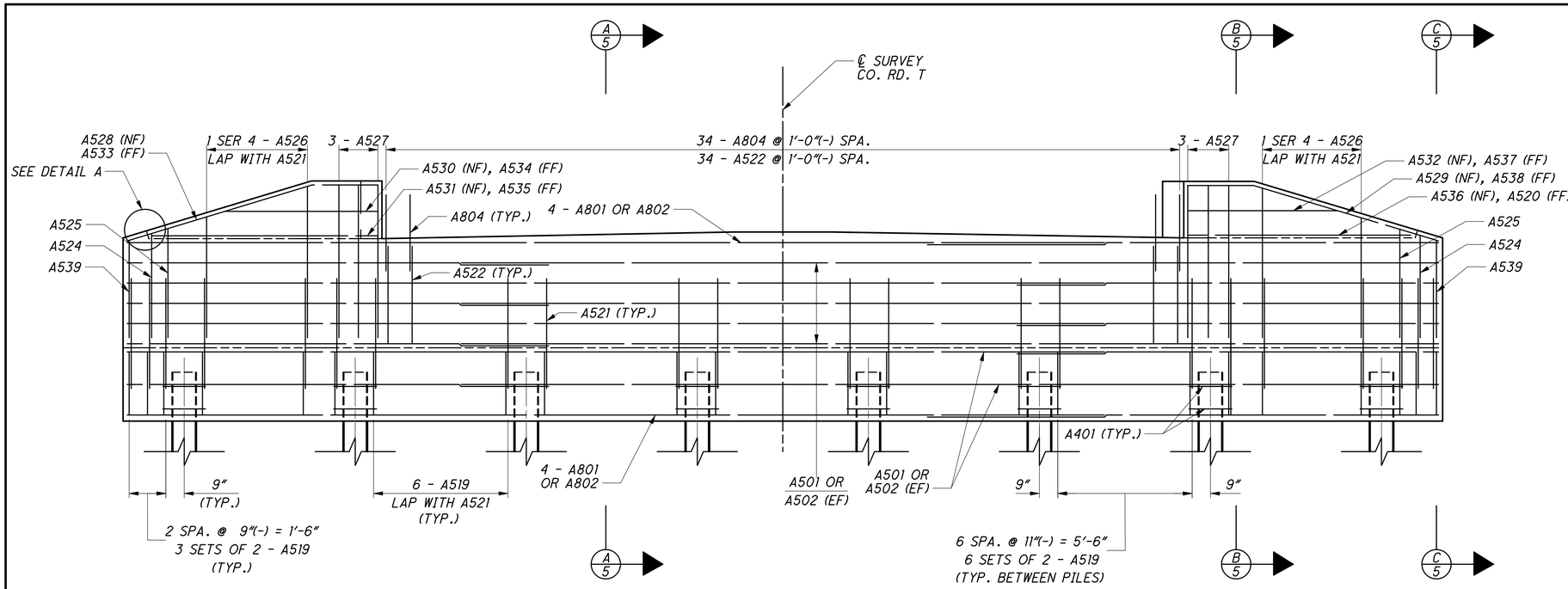
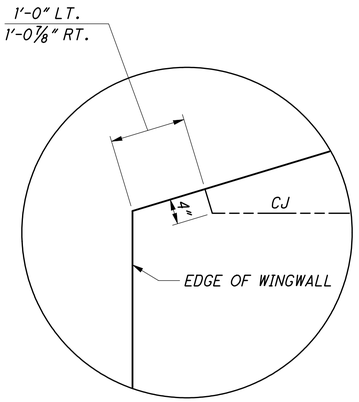


ELEVATION



DETAIL A

LEGEND

- NF = NEAR FACE
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NOTES

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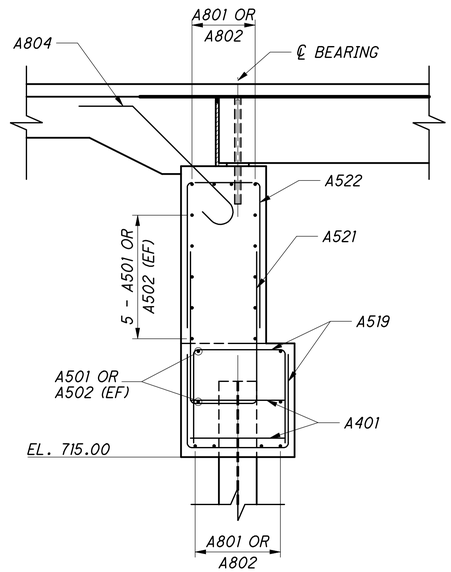
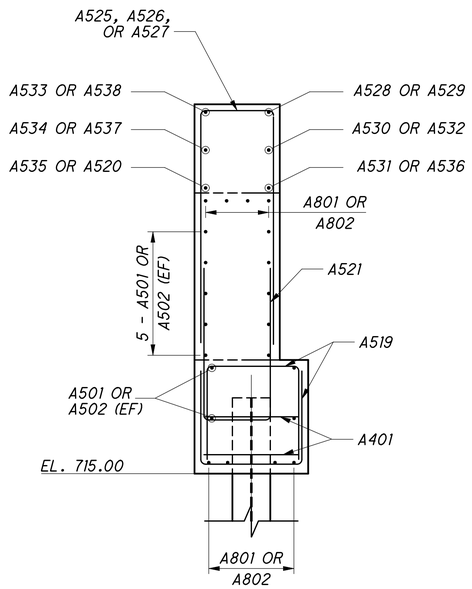
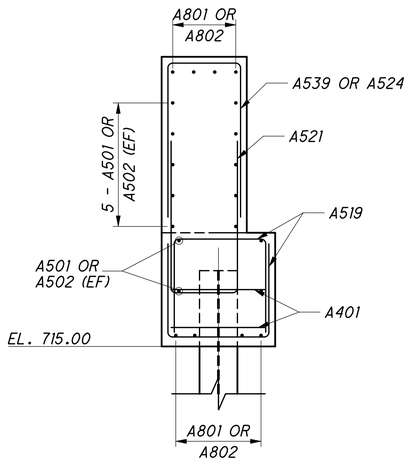
- FOR ADDITIONAL DETAILS, SEE ODOT STD. DWG. CPA-1-08.



SECTION A-A



SECTION B-B



SECTION C-C

The Mannik & Smith Group, Inc.
Civil Engineering, Surveying and Environmental Consulting

DESIGNED JRC | DRAWN BFK | REVIEWED MTM | DATE 12/11
CHECKED BCR | REVISED | STRUCTURE FILE NUMBER 2631865

FORWARD ABUTMENT REINFORCING DETAIL
BRIDGE NO. FUL-CT640-0090
FULTON COUNTY ROAD T64.9 OVER TEN MILE CREEK

FUL-CT640-0090

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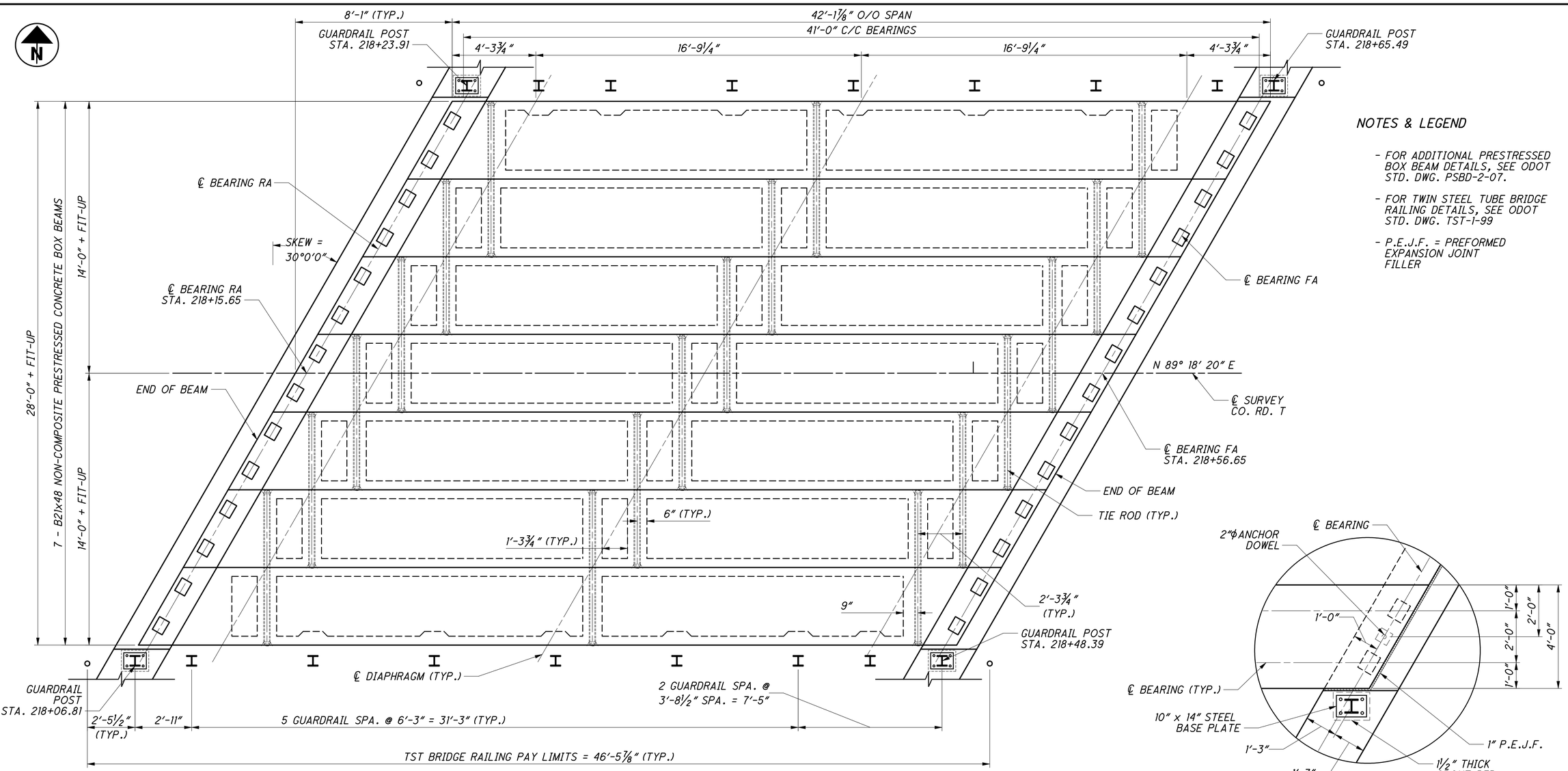
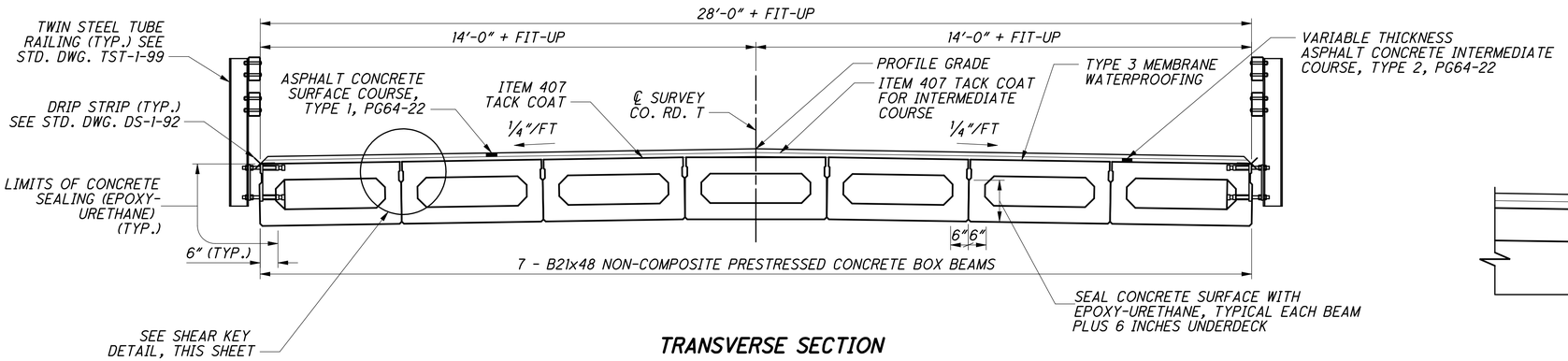


FRAMING PLAN

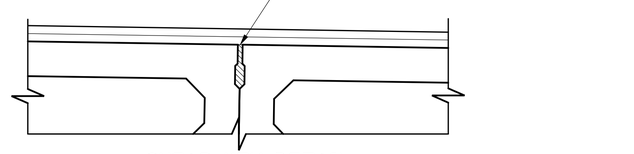
NOTES & LEGEND

- FOR ADDITIONAL PRESTRESSED BOX BEAM DETAILS, SEE ODOT STD. DWG. PSBD-2-07.
- FOR TWIN STEEL TUBE BRIDGE RAILING DETAILS, SEE ODOT STD. DWG. TST-1-99
- P.E.J.F. = PREFORMED EXPANSION JOINT FILLER

DETAIL A



TRANSVERSE SECTION



SHEAR KEY DETAIL

The Mannik & Smith Group, Inc.
Civil Engineering, Surveying and Environmental Consulting

DESIGNED	DRAWN	REVIEWED	DATE
JRC	BFK	MTM	12/11
CHECKED	REVISED	STRUCTURE FILE NUMBER	
BCR		2631865	

FRAMING PLAN AND TRANSVERSE SECTION
BRIDGE NO. FUL-CT640-0090
FULTON COUNTY ROAD T64.9 OVER TEN MILE CREEK

FUL-CT640-0090

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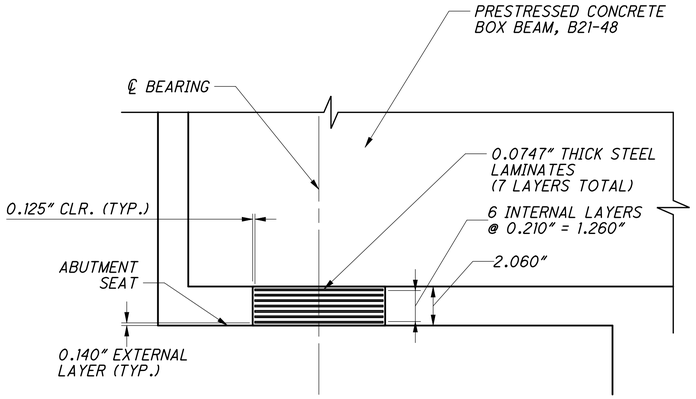
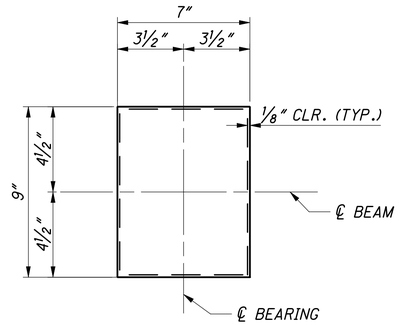


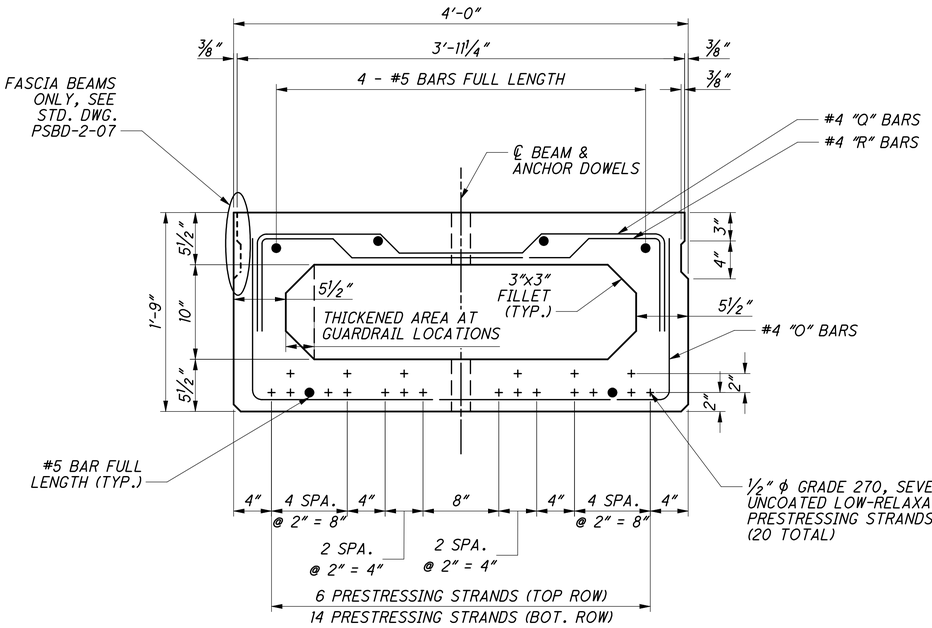
BEARING ELEVATION



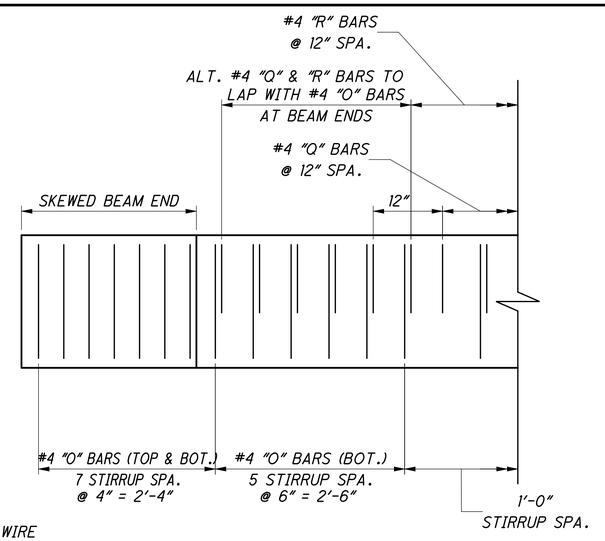
BEARING PLAN

BEARING DESIGN LOADS:

DEAD LOAD	24.8 KIPS
LIVE LOAD WITHOUT IMPACT	26.0 KIPS
TOTAL	50.8 KIPS

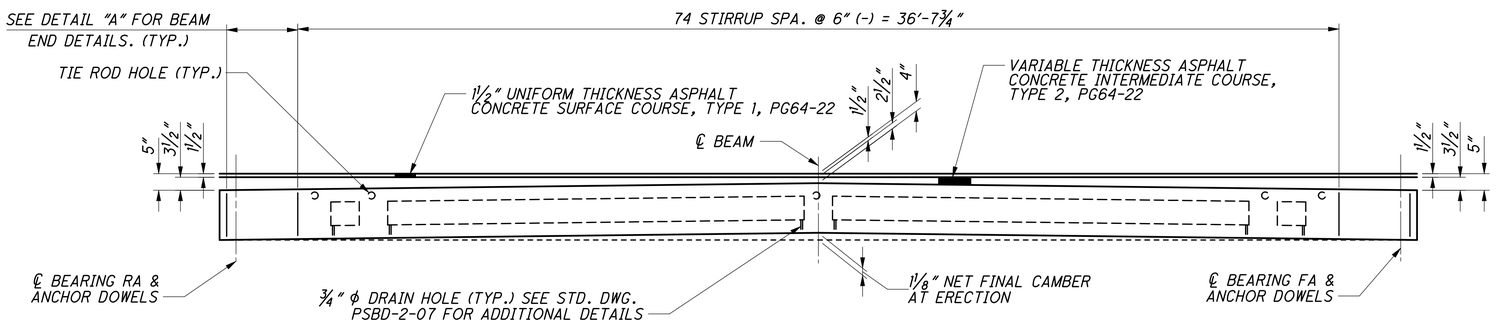


B21-48 PRESTRESSED CONCRETE BOX BEAM



DETAIL "A"

NOTE: STIRRUP SPACING SYMMETRICAL ABOUT BRIDGE CENTERLINE



B21-48 CAMBER AND DEFLECTION

(EXTERIOR BEAM SHOWN, INTERIOR SIMILAR)

NOTES:

- PRESTRESSING STRAND:
  STRAND DESCRIPTION = ½" ϕ (A = 0.153 IN²), GRADE 270
  7 WIRE, UNCOATED LOW RELAXATION PRESTRESSING STRAND
  ULTIMATE STRENGTH = 270 KSI
  INITIAL STRESS = 202,500 PSI (LOW RELAXATION STRANDS)
  INITIAL TENSION LOAD = 33.82 KIPS PER STRAND

- ASPHALT CONCRETE SURFACE COURSE:
  ASPHALT CONCRETE SURFACE COURSE SHALL CONSIST OF A VARIABLE THICKNESS OF 448 ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, PG64-22 AND 1½" THICKNESS OF 448 ASPHALT CONCRETE SURFACE COURSE, TYPE 1, PG64-22. PLACE THE 448 INTERMEDIATE COURSE IN TWO OPERATIONS. THE FIRST PORTION OF THE COURSE SHALL BE OF 1¾" UNIFORM THICKNESS. FEATHER THE SECOND PORTION OF THE COURSE TO PLACE THE SURFACE PARALLEL TO AND 1½" BELOW THE FINAL PAVEMENT SURFACE ELEVATION.

- ELASTOMERIC BEARINGS:
  THE ELASTOMER SHALL HAVE A HARDNESS OF 50 DUROMETER. THE BEARINGS WERE DESIGNED IN ACCORDANCE WITH SECTION 14.7.6 (METHOD A) OF THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS. THE LONG TERM COMPRESSION PROOF LOAD TEST (AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES, DIVISION II, SECTION 18.7.2.6) IS NOT REQUIRED.

- THE FABRICATOR'S SHOP DRAWINGS SHALL SHOW COMPLETE DETAILS OF THE BEAM REINFORCING. SEE STD. DWG. PSBD-2-07 FOR ADDITIONAL BOX BEAM DETAILS.

- CAMBER FOR B21-48 BOX BEAM:
  CALCULATED CAMBER AT TIME OF RELEASE IS ⅝ INCHES.
  CALCULATED CAMBER AT TIME OF PAVING IS 1⅛ INCHES.
  CALCULATED LONG TERM CAMBER IS 1 ½ INCHES.

  CALCULATED DEFLECTION DUE TO DEAD LOAD APPLIED AFTER THE BEAMS ARE SET (WEIGHT OF SURFACE COURSE, RAILINGS, SIDEWALKS, ETC.) IS 1/16 INCHES.

The Mannik & Smith Group, Inc.
Civil Engineering, Surveying and Environmental Consulting

DESIGNED JRC | DRAWN BFK | REVIEWED MTM | DATE 12/11
CHECKED BCR | REVISED | STRUCTURE FILE NUMBER 2631865

SUPERSTRUCTURE DETAILS
BRIDGE NO. FUL-CT640-0090
FULTON COUNTY ROAD T64.9 OVER TEN MILE CREEK

FUL-CT640-0090

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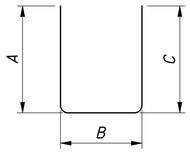
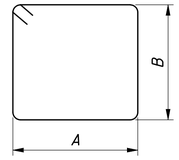
MARK	NUMBER			LENGTH	WEIGHT	TYPE	DIMENSIONS						
	REAR	FORWARD	TOTAL				A	B	C	D	E	R	INC
ABUTMENT REINFORCING													
A401	16	16	32	8'- 11"	191	3	1'-9"	2'-6"					
A501	14	14	28	40'- 0"	1168	STR							
A502	14	14	28	17'- 3"	504	STR							
A503	1	0	1	5'- 11"	6	STR							
A504	1	0	1	8'- 6"	9	STR							
A505	1	0	1	5'- 2"	5	STR							
A506	1	0	1	7'- 9"	8	STR							
A507	1	0	1	11'- 0"	11	19	8'-0"	2'-10"	1'-0"				
A508	1	0	1	10'- 5"	11	19	8'-0"	2'-3"	0'-10"				
A509	2	0	2	8'- 8"	18	2	3'-6"	1'-11"	3'-6"				
A510	2	0	2	9'- 4"	19	2	3'-10"	1'-11"	3'-10"				
A511	2	0	2	9'- 10"	21	2	4'-1"	1'-11"	4'-1"				
	2 SR		2 SR	11'- 0"			4'-8"		4'-8"				
A512	OF	0	OF	TO	104	2	TO	1'-11"	TO				0'-11 1/4"
	4		4	13'- 10"			6'-1"		6'-1"				
A513	6	0	6	14'- 0"	88	2	6'-2"	1'-11"	6'-2"				
A514	1	0	1	9'- 11"	10	19	8'-0"	1'-10"	0'-8"				
A515	1	0	1	4'- 10"	5	STR							
A516	1	0	1	7'- 5"	8	STR							
A517	1	0	1	11'- 5"	12	19	8'-0"	3'-3"	1'-2"				
A518	1	0	1	6'- 3"	7	STR							
A519	96	96	192	7'- 7"	1519	2	2'-7"	2'-8"	2'-7"				
A520	0	1	1	9'- 11"	10	STR							
A521	48	48	96	10'- 8"	1068	2	4'-6"	1'-11"	4'-6"				
A522	34	34	68	9'- 10"	697	2	4'-1"	1'-11"	4'-1"				
A523	1	0	1	8'- 10"	9	STR							
A524	0	2	2	10'- 2"	21	2	4'-3"	1'-11"	4'-3"				
A525	0	2	2	10'- 8"	22	2	4'-6"	1'-11"	4'-6"				
		2 SR	2 SR	11'- 6"			4'-11"		4'-11"				
A526	0	OF	OF	TO	107	2	TO	1'-11"	TO				0'-10 3/4"
		4	4	14'- 2"			6'-3"		6'-3"				
A527	0	6	6	14'- 2"	89	2	6'-3"	1'-11"	6'-3"				
A528	0	1	1	11'- 0"	11	19	7'-11"	2'-11"	0'-11"				
A529	0	1	1	10'- 2"	11	19	7'-10"	2'-3"	0'-8"				
A530	0	1	1	6'- 8"	7	STR							
A531	0	1	1	9'- 7"	10	STR							
A532	0	1	1	5'- 9"	6	STR							
A533	0	1	1	9'- 10"	10	19	7'-11"	1'-10"	0'-7"				
A534	0	1	1	5'- 7"	6	STR							
A535	0	1	1	8'- 6"	9	STR							
A536	0	1	1	8'- 9"	9	STR							
A537	0	1	1	6'- 11"	7	STR							
A538	0	1	1	11'- 4"	12	19	7'-10"	3'-4"	1'-0"				
A539	0	2	2	9'- 8"	20	2	4'-0"	1'-11"	4'-0"				
A801	8	8	16	40'- 0"	1709	STR							
A802	4	8	12	20'- 11"	670	STR							
A803	4	0	4	19'- 0"	203	STR							
A804	34	34	68	6'- 2"	1120	18	4'-0"	1'-0"	1'-0"				
				SUB-TOTAL	9,567								

BENDING DIAGRAMS



TYPE-2



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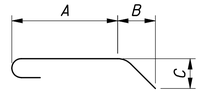
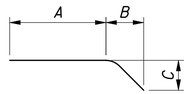


TYPE-18



TYPE-19

NOTES

- BAR DIMENSIONS SHOWN ARE OUT TO OUT UNLESS OTHERWISE INDICATED. "R" INDICATES INSIDE RADIUS, UNLESS OTHERWISE NOTED. "STR" INDICATES STRAIGHT BAR.
- ALL REINFORCING STEEL TO BE EPOXY COATED.
- BAR SIZE IS INDICATED IN THE BAR MARK. THE FIRST TWO DIGITS INDICATE THE BAR SIZE NUMBER. EXAMPLE A501 IS A NO. 5 SIZE BAR.

DESIGN AGENCY
Mannik & Smith Group, Inc.
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MAUMEE, OHIO 43537
TEL: (419) 891-2222
FAX: (419) 891-2233

DESIGNED JRC | DRAWN BFK | REVIEWED MTM | DATE 12/11

CHECKED BCR | REVISED

STRUCTURE FILE NUMBER 2631865

REINFORCING SCHEDULE

BRIDGE NO. FUL-CT640-0090

FULTON COUNTY ROAD T64.9 OVER TEN MILE CREEK

FUL-CT640-0090

8 / 8

97 / 97

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