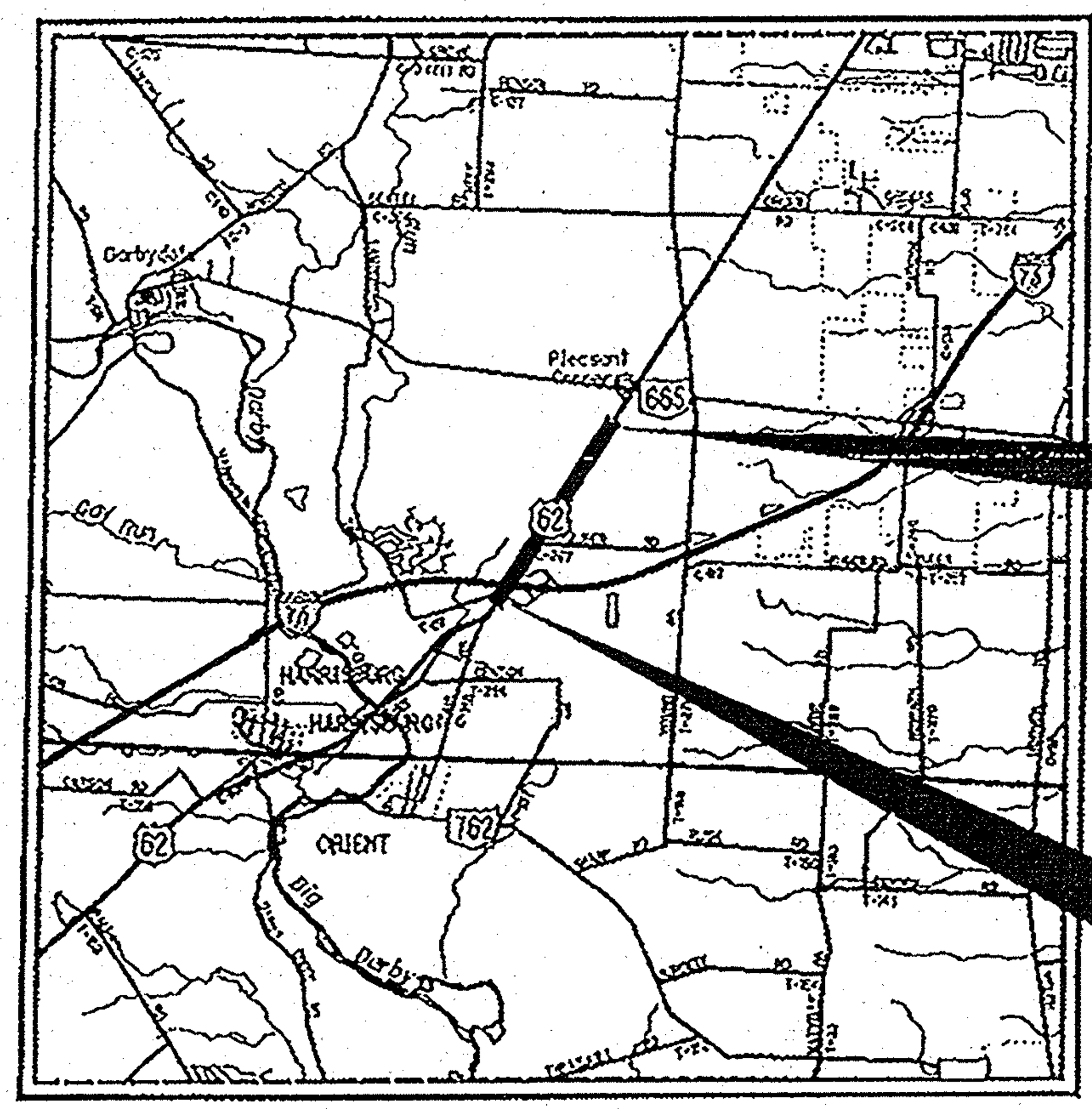
STATE OF OHIO
DEPARTMENT OF TRANSPORTATION

FRA-62-1.64

PLEASANT TOWNSHIP
FRANKLIN COUNTY



LOCATION MAP

LATITUDE: 39°49'25" N   LONGITUDE: 83°08'30" W

SCALE IN MILES 0 1 2 3 4

PORTION TO BE IMPROVED
INTERSTATE HIGHWAY
FEDERAL ROUTES
STATE ROUTES
COUNTY & TOWNSHIP ROADS
OTHER ROADS

DESIGN DESIGNATION

CURRENT ADT (2017) 14,000
DESIGN YEAR ADT (2037) 16,000
DESIGN HOURLY VOLUME (2037) 1,600
DIRECTIONAL DISTRIBUTION 53%
TRUCKS (24 HOUR B&C) 5%
DESIGN SPEED .... 50 M.P.H. / 60 M.P.H.
LEGAL SPEED .... 45 M.P.H. / 55 M.P.H.
DESIGN FUNCTIONAL CLASSIFICATION:
RURAL PRINCIPAL ARTERIAL
NHS PROJECT .... NO

DESIGN EXCEPTIONS

N/A

UNDERGROUND UTILITIES
CONTACT BOTH SERVICES
CALL TWO WORKING DAYS
BEFORE YOU DIG
CALL
1-800-362-2764
(TOLL FREE)
OHIO UTILITIES PROTECTION SERVICE
NON-MEMBERS
MUST BE CALLED DIRECTLY
OIL & GAS PRODUCERS UNDERGROUND PROTECTION SERVICE CALL: 1-800-925-0988

PLAN PREPARED BY:
RESOURCE INTERNATIONAL INC.
6350 PRESIDENTIAL GATEWAY
COLUMBUS, OHIO 43231
(614) 823-4949

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PROJECT DESCRIPTION

THIS PROJECT CONSISTS OF RESURFACING 1.33 MILES OF US 62. THIS INCLUDES 1.5" MILL AND FILL FOR 0.26 MILES AND 1.5" OVERLAY FOR 1.07 MILES. THIS PROJECT ALSO CONSISTS OF REPLACING 12,500 FEET OF EXISTING STORM SEWER.

PROJECT EARTH DISTURBED AREA: 4.49 ACRES
ESTIMATED CONTRACTOR EARTH DISTURBED AREA: 0.25 ACRES
NOTICE OF INTENT EARTH DISTURBED AREA: 4.90 ACRES

2013 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 CERTIFIED AS TO COMPLETENESS AND QUALITY
[signature] 12-02-2015
SIGNATURE DATE
RESOURCE INTERNATIONAL, INC. PROJECT MANAGER
FIRM TITLE

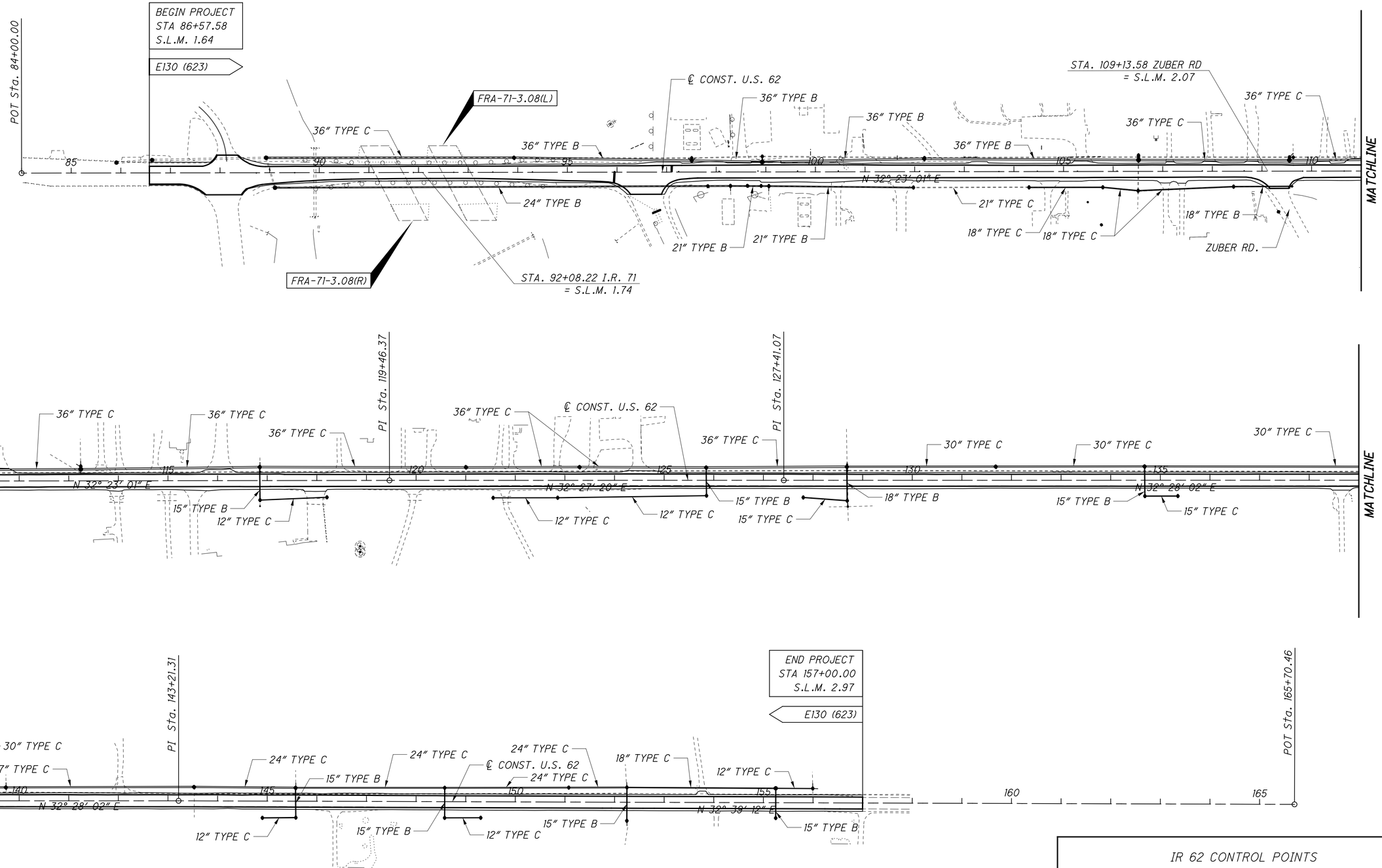
ENGINEERS SEAL:
SIGNED: [signature]
DATE: 11-09-2015

STANDARD CONSTRUCTION DRAWINGS					SUPPLEMENTAL SPECIFICATIONS	SPECIAL PROVISIONS
BP-3.1 07/18/14	MT-97.10 07/18/14	CB-1.1 01/18/13			800 04.15/16	
BP-4.1 07/19/13	MT-97.12 07/18/14	CB-1.2 01/18/13				
	MT-98.28 07/18/14	CB-3.2 01/18/13			832 01/17/14	
MGS-1.1 07/19/13	MT-99.20 07/19/13	CB-3.4 01/18/13			902 12/31/12	
MGS-2.1 07/19/13	MT-101.90 07/18/14	CB-4.1 01/18/13				
MGS-4.3 01/18/13	MT-105.10 07/19/13	HW-2.2 01/18/13				
		MH-1.2 01/18/13				
RM-1.1 07/18/14		DM-4.3 07/19/13				
		DM-4.4 07/20/12				
TC-65.10 01/17/14						
TC-65.11 07/18/14						
TC-71.10 01/17/14						

APPROVED [signature]
DATE 12-3-15 DISTRICT DEPUTY DIRECTOR

APPROVED [signature]
DATE 5-26-16 DIRECTOR, DEPARTMENT OF TRANSPORTATION

FEDERAL PROJECT NO. E130 (623)
PID NO. 94907
CONSTRUCTION PROJECT NO.
RAILROAD INVOLVEMENT NONE
FRA-62-1.64



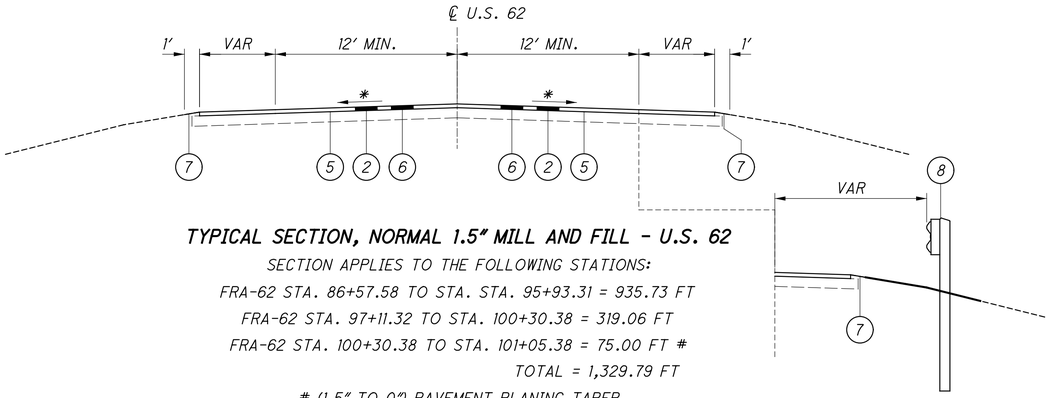
IR 62 CONTROL POINTS				
POINT NO.	NORTHING	EASTING	STATION	DESCRIPTION
DN500	669,547.61	1,788,115.21	84+00.00	CL US 62
DN501	667,641.57	1,790,014.59	119+46.37	CL US 62
DN502	668,312.15	1,790,441.06	127+41.07	CL US 62
DN503	669,645.39	1,790,289,35	143+21.31	CL US 62
DN504	671,539.06	1,792,502.90	165+70.46	CL US 62

HORIZONTAL SCALE IN FEET
0 50 100 200

SCHEMATIC PLAN

FRA-62-1.64

2
84



TYPICAL SECTION, NORMAL 1.5″ MILL AND FILL - U.S. 62

SECTION APPLIES TO THE FOLLOWING STATIONS:

FRA-62 STA. 86+57.58 TO STA. STA. 95+93.31 = 935.73 FT

FRA-62 STA. 97+11.32 TO STA. 100+30.38 = 319.06 FT

FRA-62 STA. 100+30.38 TO STA. 101+05.38 = 75.00 FT #

TOTAL = 1,329.79 FT

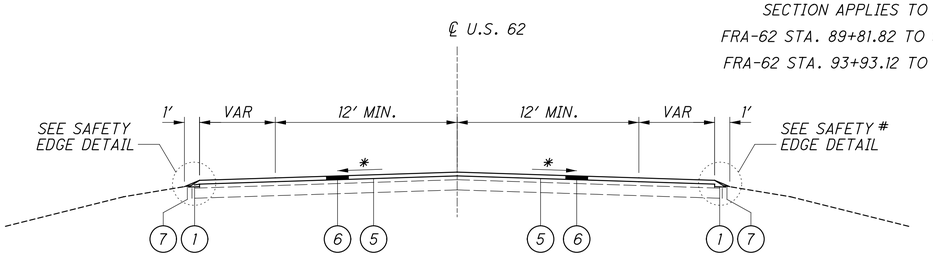
(1.5″ TO 0″) PAVEMENT PLANING TAPER

TYPICAL SECTION, GUARDRAIL REPLACEMENT - U.S. 62

SECTION APPLIES TO THE FOLLOWING STATIONS:

FRA-62 STA. 89+81.82 TO STA. STA. 90+43.86 = 62.50 FT

FRA-62 STA. 93+93.12 TO STA. STA. 94+55.16 = 62.50 FT



TYPICAL SECTION, NORMAL 1.5″ OVERLAY - U.S. 62

SECTION APPLIES TO THE FOLLOWING STATIONS:

FRA-62 STA. 156+25.00 TO STA. 157+00.00 = 75.00 FT ##

FRA-62 STA. 101+05.38 TO STA. 156+25.00 = 5,455.34 FT

TOTAL = 5,530.34 FT

DOES NOT APPLY FROM STA. 109+10.47 TO 109+55.83. TAPER OVERLAY TO MATCH EXISTING PAVEMENT ELEVATIONS AT ZUBER ROAD. FOR DETAILS, SEE SHEET 5/84

(0″ TO 1.5″) PAVEMENT PLANNING TAPER

NOTES:

* PROPOSED PAVEMENT CROSS SLOPES AT THIS LOCATION TO REMAIN SAME AS EXISTING.

** APPLY TACK COAT TO VERTICAL SURFACES AS WELL AS IN BETWEEN ASPHALT CONCRETE LAYERS

1. MATCH EXISTING EDGE OF PAVEMENT AND EXISTING EDGE OF SHOULDER UNLESS OTHERWISE SHOWN IN THE PLAN SHEETS.

LEGEND:

(1) ITEM 209 - PREPARING SUBGRADE FOR SHOULDER PAVING, AS PER PLAN

(2) ITEM 254 - (1.5″) PAVEMENT PLANING, ASPHALT CONCRETE

(3) ITEM 301 - (9″) ASPHALT CONCRETE BASE, PG64-22

(4) ITEM 304 - (6″) AGGREGATE BASE

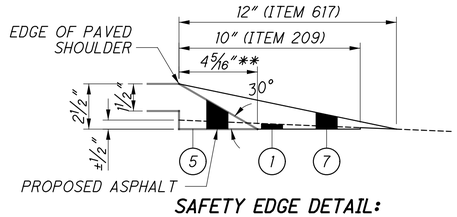
(5) ITEM 407 - TACK COAT @ 0.075 GAL/SQ YD

(6) ITEM 442 - (1.5″) ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (448)

(7) ITEM 617 - (2″) COMPACTED AGGREGATE

(8) ITEM 606 - GUARDRAIL, TYPE MGS

(9) ITEM 605 - AGGREGATE DRAIN, AS PER PLAN



SAFETY EDGE DETAIL:

(MIRROR FOR OPPOSITE SIDE)

SEE SAFETY EDGE NOTES BELOW.

FOR MORE INFORMATION REGARDING SAFETY EDGE, SEE GENERAL NOTES SHEET 4/84.

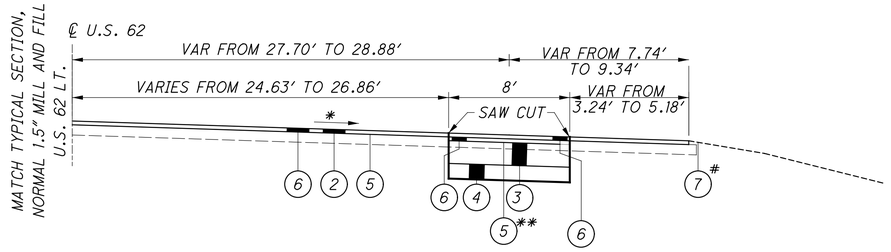
SAFETY EDGE:

SAFETY EDGES ARE REQUIRED AT THE OUTSIDE EDGES OF THE PAVED SHOULDER AT LOCATIONS DESIGNATED IN THIS PLAN.

CONSTRUCT A SAFETY EDGE TO A TOTAL DEPTH OF 2.5″ AS DETAILED.

BLADE AND SHAPE EXISTING SHOULDER MATERIAL TO FORM A UNIFORM SURFACE UNDER THE SAFETY EDGE PRIOR TO PLACEMENT OF THE ASPHALT CONCRETE OVERLAY.

** QUANTITIES ARE BASED ON AN IDEAL SAFETY EDGE ANGLE OF 30° PRODUCING A WIDTH OF APPROX. 4 5/16″. ACTUAL ANGLE OF PROPOSED SAFETY EDGE SHALL NOT EXCEED 40°.



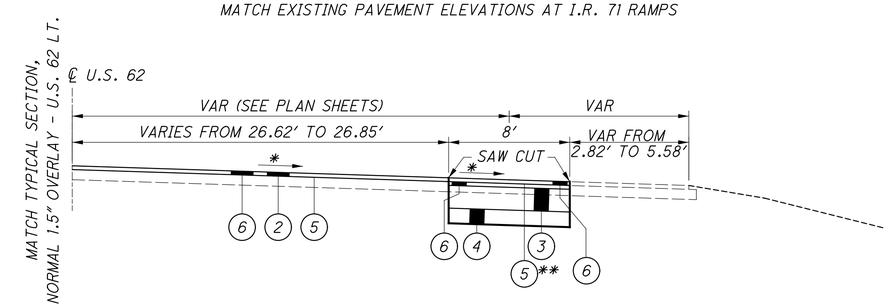
TYPICAL SECTION, FULL DEPTH #1 - U.S. 62 RT.

SECTION APPLIES TO THE FOLLOWING STATIONS:

FRA-62 STA. 95+93.31 TO STA. 97+11.32 = 118.01 FT

TOTAL = 118.01 FT

DOES NOT APPLY FROM STA. 96+20.65 TO 96+95.87 MATCH EXISTING PAVEMENT ELEVATIONS AT I.R. 71 RAMPS

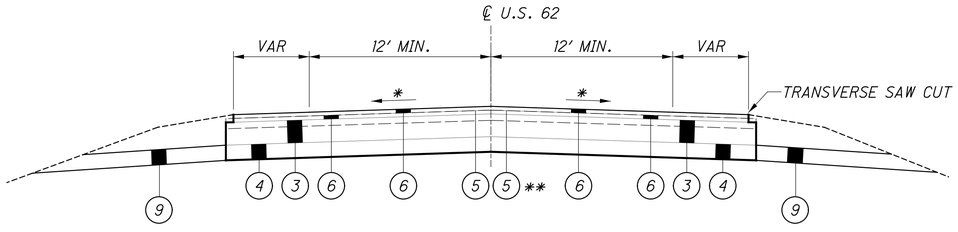


TYPICAL SECTION, FULL DEPTH #2 - U.S. 62 RT.

SECTION APPLIES TO THE FOLLOWING STATIONS:

FRA-62 STA. 108+97.73 TO STA. 109+62.01 = 64.28 FT

TOTAL = 64.28 FT



TYPICAL SECTION, FULL DEPTH PAVEMENT REPAIR #3 - U.S. 62

SECTION APPLIES TO THE FOLLOWING STATIONS:

FRA-62 STA. 116+81.42 TO STA. 116+89.42 = 8.00 FT

FRA-62 STA. 125+80.96 TO STA. 125+88.96 = 8.00 FT

FRA-62 STA. 128+64.86 TO STA. 128+72.86 = 8.00 FT

FRA-62 STA. 134+64.54 TO STA. 134+72.54 = 8.00 FT

FRA-62 STA. 145+53.29 TO STA. 145+61.29 = 8.00 FT

FRA-62 STA. 148+53.65 TO STA. 148+61.65 = 8.00 FT

FRA-62 STA. 152+20.91 TO STA. 152+28.91 = 8.00 FT

FRA-62 STA. 155+20.91 TO STA. 155+28.91 = 8.00 FT

TOTAL = 72.00 FT

FOR STORM SEWER CROSSING PROFILES, SEE SHEET 74/84

TYPICAL SECTIONS

FRA-62-1.64

3
84

NOTIFICATION OF CONSTRUCTION INITIATION:
AT LEAST FOURTEEN DAYS PRIOR TO ANY CONSTRUCTION ACTIVITIES, THE CONTRACTOR SHALL ADVISE THE DISTRICT OFFICE OF COMMUNICATIONS VIA EMAIL AT d06.pio@dot.state.oh.us, THE DISTRICT WORK ZONE TRAFFIC MANAGER VIA EMAIL AT d06.mot@dot.state.oh.us AND THE CITY OF GROVE CITY (FOR WORK WITHIN CITY LIMITS) OF THE ANTICIPATED START DATE OF ANY CONSTRUCTION ACTIVITIES, INCLUDING BUT NOT LIMITED TO THE PLACING OF WORK ZONE SIGNS. THE NOTIFICATION SHALL ALSO INCLUDE THE PROJECT NUMBER, PID, NAME AND PHONE NUMBER OF THE CONTRACTOR, A POINT OF CONTACT AND THE ANTICIPATED IMPACT ON TRAFFIC. THE CONTRACTOR WILL IMMEDIATELY INFORM THE DISTRICT OFFICE OF COMMUNICATIONS AND THE DISTRICT WORK ZONE TRAFFIC MANAGER OF ANY AND ALL DELAYS AND/OR CHANGES REGARDING THE CONSTRUCTION INITIATION DATE.

GENERAL:
THE CONTRACTOR SHALL SUBMIT IN WRITING A SCHEDULE OF OPERATIONS TO THE ENGINEER (SEE 108.02) AND RECEIVE APPROVAL IN WRITING BEFORE WORK IS STARTED ON THIS PROJECT. ALL TRAFFIC CONTROL DEVICES SHALL BE FURNISHED, ERECTED, MAINTAINED, AND REMOVED BY THE CONTRACTOR IN ACCORDANCE WITH THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.

ALIGNMENT AND PROFILE:
THE WORK INVOLVED IN THIS PROJECT INCLUDES PLANING PAVEMENT AT AN EQUAL DEPTH TO THE PROPOSED PAVEMENT WHILE MAINTAINING THE EXISTING CROSS-SLOPE (CROWN). ANY CHANGES IN CROSS SLOPES WILL BE IDENTIFIED WITHIN THESE PLANS. THE WORK ALSO INCLUDES PLACING PROPOSED ASPHALT CONCRETE OVERLAY (WITH A UNIFORM THICKNESS OF 1.5" INCHES) AS SHOWN ON THE TYPICAL SECTIONS.

CONTRACTOR'S EQUIPMENT - OPERATION AND STORAGE:
THE CONTRACTOR'S EQUIPMENT SHALL BE OPERATED IN THE DIRECTION OF TRAFFIC WHERE PRACTICAL. EQUIPMENT SHALL HAVE AT LEAST ONE AMBER FLASHING LIGHT. WHEN PARKED ALONG THE HIGHWAY, THE EQUIPMENT SHALL BE LOCATED EITHER A MINIMUM OF THIRTY FEET FROM THE EDGE OF PAVEMENT OR SIX FEET BEHIND GUARDRAIL WITH A MINIMUM OF 125 FEET OF GUARDRAIL PRECEDING THE EQUIPMENT. ALL OTHER EQUIPMENT, INCLUDING PRIVATE VEHICLES, SHALL BE STORED AT AN APPROVED CONTRACTOR'S STORAGE AREA.

CONTINGENCY QUANTITIES:
THE CONTRACTOR SHALL NOT ORDER MATERIALS OR PERFORM WORK FOR ITEMS DESIGNATED BY PLAN NOTE TO BE USED "AS DIRECTED BY THE ENGINEER" UNLESS AUTHORIZED BY THE ENGINEER. THE ACTUAL WORK LOCATIONS AND QUANTITIES USED FOR SUCH ITEMS SHALL BE INCORPORATED INTO THE FINAL CHANGE ORDER GOVERNING COMPLETION OF THE PROJECT.

REMOVAL ITEMS:
UNLESS OTHERWISE INSTRUCTED, GUARDRAIL, POSTS, ASPHALT AND MISCELLANEOUS HARDWARE DESIGNATED FOR REMOVAL BECOME PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF. PAYMENT FOR THE ABOVE SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE REMOVED ITEM.

PART-WIDTH CONSTRUCTION:
BECAUSE OF THE NECESSITY TO BUILD THIS PROJECT UNDER TRAFFIC AND TO CONSTRUCT THE FULL PAVEMENT WIDTH IN STAGES, EXERCISE CARE TO PREVENT THE CONSTRUCTION OF A BUTT JOINT IN THE BASE COURSES. LAP LONGITUDINAL JOINTS AS SHOWN ON STANDARD CONSTRUCTION DRAWING BP-3.1.

WORK LIMITS:
THE WORK LIMITS SHOWN ON THESE PLANS ARE FOR PHYSICAL CONSTRUCTION ONLY. THE INSTALLATION AND OPERATION OF ALL TEMPORARY TRAFFIC CONTROL AND TEMPORARY TRAFFIC CONTROL DEVICES REQUIRED BY THESE PLANS SHALL BE PROVIDED BY THE CONTRACTOR WHETHER INSIDE OR OUTSIDE THESE WORK LIMITS.

SAFETY EDGE:
IN ADDITION TO THE REQUIREMENTS OF 401.12, ATTACH A DEVICE TO THE SCREED OF THE PAVER THAT CONFINES THE MATERIAL AT THE END GATE AND EXTRUDES THE ASPHALT MATERIAL IN SUCH A WAY THAT RESULTS IN A COMPACTED WEDGE SHAPE PAVEMENT EDGE OF APPROXIMATELY 30 DEGREES (NOT STEEPER THAN 40 DEGREES) AS DETAILED ON TYPICAL SECTION SHEET 3/84. ENSURE THE DEVICE MAINTAINS CONTACT WITH THE EXISTING SURFACE, AND ALLOW FOR AUTOMATIC TRANSITION TO CROSS ROADS, DRIVEWAYS AND OBSTRUCTIONS. DO NOT USE CONVENTIONAL SINGLE PLATE STRIKE OFF.

CONSTRUCTION OF SAFETY EDGE HAS BEEN OMITTED AT LOCATIONS WHERE PAVEMENT PLANING IS BEING PERFORMED. PLAN PREPARATION HAS MADE EVERY REASONABLE ATTEMPT TO IDENTIFY THE SAFETY EDGE LOCATIONS WITHIN THE PROJECT LIMITS.

USE THE TRANSTECH SHOULDER WEDGE MAKER, THE CARLSON SAFETY EDGE END GATE, THE ADVANT-EDGER, THE TROXLER SAFETSIOPE OR A SIMILAR APPROVED-EQUAL DEVICE THAT PRODUCES THE SAME WEDGE CONSOLIDATION RESULTS. CONTACT INFORMATION FOR THESE WEDGE SHAPE COMPACTION DEVICES IS THE FOLLOWING:

SAFETY EDGE (CONTINUED):
TRANSTECH SYSTEMS, INC.
1594 STATE STREET
SCHENECTADY, NY 12304
1-800-724-6306
WWW.TRANSTECHSYS.COM

ADVANT-EDGE PAVING EQUIPMENT LLC P. O. BOX 9163
NISKAYUNA, NY 12309-0163
518-280-6090
WWW.ADVANTEDGEPAVING.COM

CARLSON SAFETY EDGE END GATE
18425 501 AVENUE EAST
TACOMA, WA 98446
253-875-8000

TROXLER ELECTRONIC LABORATORIES, INC.
3008 E. CORNWALLIS RD.
RESEARCH TRIANGLE PARK, NC 27709
1-877-TROXLER
WWW.TROXLERLABS.COM

IF ELECTING TO USE A SIMILAR DEVICE, PROVIDE PROOF THAT THE DEVICE HAS BEEN USED ON PREVIOUS PROJECTS WITH ACCEPTABLE RESULTS OR CONSTRUCT A TEST SECTION PRIOR TO THE BEGINNING OF WORK AND DEMONSTRATE WEDGE COMPACTION TO THE SATISFACTION OF THE ENGINEER. SHORT SECTIONS OF HANDWORK WILL BE ALLOWED WHEN NECESSARY FOR TRANSITIONS AND TURNOUTS OR OTHERWISE AUTHORIZED BY THE ENGINEER.

IN ADDITION TO THE REQUIREMENTS OF 401.16, MAKE THE FIRST ROLLER PASS 8 TO 12 INCHES (200 TO 300 MM) AWAY FROM TAPERED EDGE. DO NOT ROLL THE TAPER.

UNDERGROUND UTILITIES:
THE IDENTITY AND LOCATION OF SOME OF THE EXISTING UNDERGROUND FACILITIES KNOWN TO BE LOCATED IN THE CONSTRUCTION AREA HAVE BEEN IDENTIFIED. THE CONTRACTOR SHALL GIVE NOTICE OF INTENT TO CONSTRUCT TO THE OHIO UTILITIES PROTECTION SERVICE, PRODUCERS UNDERGROUND PROTECTION SERVICE, AND OWNERS OF UNDERGROUND FACILITIES THAT ARE NOT MEMBERS OF A REGISTERED PROTECTION SERVICE IN ACCORDANCE WITH SECTION 153.64 OF THE OHIO REVISED CODE. THE ABOVE MENTIONED NOTICE SHALL BE GIVEN AT LEAST TWO WORKING DAYS PRIOR TO THE START OF CONSTRUCTION. THE FOLLOWING UTILITIES ARE LOCATED WITHIN THE WORK LIMITS OF THE PROJECT AND THE OWNERS SUBSCRIBE TO REGISTERED UNDERGROUND PROTECTION SERVICE.

OHIO UTILITY PROTECTION SERVICE 1-800-362-2764
PRODUCERS UNDERGROUND PROTECTION SERVICE 1-614-587-0486
NON-MEMBERS MUST BE CALLED DIRECTLY.

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

ODOT TRAFFIC (DIST 6)
400 EAST WILLIAM ST
DELAWARE, OH 43015
740.833.8332

AEP (COLUMBUS SOUTHERN POWER)
1 RIVERSIDE PLAZA
COLUMBUS, OH 43215
614.716.2531

TIME WARNER CABLE
3760 INTERCHANGE DR
COLUMBUS, OH 43204
614.877.4338

AT&T - OHIO
111 NORTH FOURTH ST
COLUMBUS, OH 43215
614.223.7162

CONNECTION BETWEEN EXISTING AND PROPOSED GUARDRAIL:
WHEN IT IS NECESSARY TO SPLICE PROPOSED GUARDRAIL TO EXISTING GUARDRAIL, ONLY THE EXISTING GUARDRAIL SHALL BE CUT, DRILLED, OR PUNCHED. THE CONNECTION SHALL BE MADE USING A W-BEAM, BEAM SPLICE AS SHOWN IN AASHTO M 180-12, EXCEPT THE BEAM WASHERS ARE NOT TO BE USED. PAYMENT SHALL BE INCLUDED IN THE CONTRACT PRICE FOR THE RESPECTIVE GUARDRAIL ITEMS.

GUARDRAIL POST HOLES:
ALL HOLES REMAINING AFTER REMOVAL OF GUARDRAIL POSTS SHALL BE FILLED WITH GRANULAR MATERIAL, EXCESS MATERIAL RESULTING FROM GUARDRAIL RECONSTRUCTION, OR EXCESS MATERIAL FROM BERM RESHAPING. FILL MATERIAL CONTAINING SOD SHALL NOT BE USED. ALL FILL MATERIAL SHALL BE APPROVED BY THE ENGINEER. MATERIAL PLACED IN HOLES SHALL BE THOROUGHLY COMPACTED AND LEVELED OFF AS DIRECTED BY THE ENGINEER. PAYMENT FOR THE ABOVE SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE APPLICABLE GUARDRAIL ITEM.

ITEM 202 - GUARDRAIL REMOVED, AS PER PLAN:
IN ADDITION TO THE REQUIREMENTS OF ITEM 202 - GUARDRAIL REMOVED, THE CONTRACTOR SHALL REMOVE THE FOLLOWING GUARDRAIL ITEMS AT LOCATIONS SPECIFIED IN THIS PLAN. REMOVAL OF SPECIFIED GUARDRAIL SHALL INCLUDE BUT NOT BE LIMITED TO TERMINAL ASSEMBLIES, AND ANY ATTACHED POSTS, SIGNS AND DELINEATORS. THIS REMOVAL WILL INCLUDE ALL POSTS, ANCHORS AND HARDWARE UNDER GROUND WITH THE EXCEPTION OF ANY CONCRETE FOUNDATIONS. CONCRETE FOUNDATIONS SHALL BE REMOVED TO A MINIMUM OF 1 FOOT BELOW THE GRADE OF THE SURROUNDING AREA.

ALL HOLES AND VOIDS REMAINING AFTER REMOVAL OF GUARDRAIL ITEMS SHALL BE FILLED WITH GRANULAR MATERIAL. FILL MATERIAL CONTAINING SOD SHALL NOT BE USED. ALL FILL MATERIAL SHALL BE APPROVED BY THE ENGINEER. MATERIAL PLACED IN HOLES SHALL BE THOROUGHLY COMPACTED AND LEVELED OFF AS DIRECTED BY THE ENGINEER.

NO HAZARD SHALL BE LEFT UNPROTECTED EXCEPT FOR THE ACTUAL TIME NECESSARY TO REMOVE THE EXISTING GUARDRAIL, PREPARE THE SITE, AND INSTALL NEW GUARDRAIL IN A CONTINUOUS OPERATION. NO GUARDRAIL SHALL BE REMOVED UNTIL THE REPLACEMENT MATERIAL IS ON SITE, READY FOR INSTALLATION. FAILURE TO COMPLY WITH THIS REQUIREMENT SHALL BE DEEMED SUFFICIENT CAUSE TO ORDER WORK SUSPENDED UNTIL SUCH TIME AS THE ENGINEER IS ASSURED OF COMPLIANCE.

PAYMENT FOR THE ABOVE SHALL BE INCLUDED IN THE UNIT PRICE PER FEET OF ITEM 202, GUARDRAIL REMOVED, AS PER PLAN.

ITEM 209 - PREPARING SUBGRADE FOR SHOULDER PAVING, AS PER PLAN

PREPARE THE SHOULDER FOR A PAVING CONSISTENT SAFETY EDGE IN BOTH THICKNESS AND WIDTH.

PRIOR TO PAVING THE SAFETY EDGE, GRADE AN AREA 10 INCHES WIDE, BEGINNING AT THE EDGE OF THE ROADWAY, TO PROVIDE A LEVEL SURFACE FREE FROM VEGETATION (AS DETAILED ON THE TYPICAL SECTION). IF NECESSARY, EXCAVATE THE GRADED AREA TO THE DEPTH NECESSARY TO CONSTRUCT THE SAFETY EDGE. COMPACT THE GRADED SHOULDER ACCORDING TO 617.05. OR AS DIRECTED BY THE ENGINEER.

ITEM 407 - TACK COAT:

THE RATE OF APPLICATION OF ITEM 407 - TACK COAT, SURFACE COURSE SHALL BE SUBJECT TO ADJUSTMENT AS DIRECTED BY THE ENGINEER. FOR ESTIMATING PURPOSES ONLY, THE PLAN INDICATES AN AVERAGE APPLICATION RATE OF TACK COAT AT 0.075 GALLON PER SQUARE YARD. A COVER AGGREGATE SHALL BE USED IF HEAVY TRACKING OF THE TACK COAT ON TO THE EXISTING PAVEMENT SHOULD OCCUR DURING THE PAVING OPERATIONS. THE COST OF THE COVER AGGREGATE SHALL BE INCLUDED IN THE COST OF THIS ITEM.

ITEM SPECIAL - FILL AND PLUG EXISTING CONDUIT

THIS ITEM SHALL CONSIST OF THE CONSTRUCTION OF BULK-HEADS IN EXISTING 10 & 15 IN DIAMETER CONDUITS AND FILLING THE AREA THUS SEALED OFF WITH ITEM 613, SAND OR OTHER MATERIAL APPROVED BY THE ENGINEER.

BULKHEADS SHALL BE LOCATED AT THE LIMITS OF THE AREA TO BE FILLED AS INDICATED ON THE PLANS. THE BULKHEADS SHALL CONSIST OF BRICK OR CONCRETE MASONRY WITH A MINIMUM THICKNESS OF 12 INCHES.

THE FILL MATERIAL SHALL BE PUMPED INTO PLACE, OR PLACED BY OTHER MEANS APPROVED BY THE ENGINEER, SO THAT, AFTER SETTLEMENT, AT LEAST 90 PERCENT OF THE CROSS-SECTIONAL AREA OF THE CONDUIT, FOR ITS ENTIRE LENGTH, SHALL BE FILLED. THE LENGTH OF FILLED AND PLUGGED CONDUIT TO BE PAID FOR SHALL BE THE ACTUAL NUMBER OF FEET (MEASURED ALONG THE CENTERLINE OF EACH CONDUIT FROM OUTER FACE TO OUTER FACE OF BULKHEADS) FILLED AND PLUGGED AS DESCRIBED ABOVE.

IN LIEU OF FILLING AND PLUGGING THE EXISTING CONDUIT, THE PIPE MAY BE CRUSHED AND BACKFILLED IN ACCORDANCE WITH THE PROVISIONS OF 203, OR IT MAY BE REMOVED. THE LENGTH, MEASURED AS PROVIDED ABOVE, SHALL BE PAID FOR AT THE CONTRACT PRICE PER FOOT FOR, ITEM SPECIAL, FILL AND PLUG EXISTING CONDUIT.

ITEM 606 - ANCHOR ASSEMBLY, MGS TYPE B
THIS ITEM SHALL CONSIST OF FURNISHING AND INSTALLING ANY OF THE GUARDRAIL END TERMINALS FOR TYPE MGS GUARDRAIL AS LISTED ON ROADWAY ENGINEERING'S WEB PAGE UNDER ROADSIDE SAFETY DEVICES FOR APPROVED GUARDRAIL END TREATMENTS. INSTALLATION SHALL BE AT THE LOCATIONS SPECIFIED IN THE PLANS, IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS.

REFER TO THE MANUFACTURER'S INSTRUCTIONS REGARDING THE INSTALLATION OF, AND THE GRADING AROUND, THE FOUNDATION TUBES AND GROUND STRUT. THE TOP OF ANY FOUNDATION TUBE SHOULD BE LESS THAN 4 INCHES ABOVE THE GROUND. THE PLACEMENT OF THE FOUNDATION TUBES SHOULD BE AN APPROPRIATE DEPTH BELOW THE LEVEL LINE IN ORDER TO MAINTAIN THE FINISHED GUARDRAIL HEIGHT OF 31 INCHES FROM THE EDGE OF THE SHOULDER.

ON-SITE GRADING IS REQUIRED IF THE TOP OF THE FOUNDATION TUBES OR TOP OF THE GROUND STRUT DOES PROJECT MORE THAN 4 INCHES ABOVE THE GROUND LINE.

THE FACE OF THE TYPE B IMPACT HEAD SHALL BE COVERED WITH TYPE G REFLECTIVE SHEETING, PER CMS 730.19.

PAYMENT FOR THE ABOVE WORK SHALL BE MADE AT THE UNIT PRICE BID FOR ITEM 606, ANCHOR ASSEMBLY, MGS TYPE B, EACH, AND SHALL INCLUDE ALL LABOR, TOOLS, EQUIPMENT AND MATERIALS NECESSARY TO CONSTRUCT A COMPLETE AND FUNCTIONAL ANCHOR ASSEMBLY SYSTEM, INCLUDING REFLECTIVE SHEETING AND ALL RELATED HARDWARE, GRADING, EMBANKMENT AND EXCAVATION NOT SEPARATELY SPECIFIED, AS REQUIRED BY THE MANUFACTURER.

ITEM 611 - CATCH BASIN NO. 7 - STANDARD SIDE DRAIN
THE FOLLOWING QUANTITY OF CATCH BASIN NO. 7 - STANDARD SIDE DRAIN IS PROVIDED IN THE GENERAL SUMMARY TO ADDRESS LOCATIONS ALONG THE PROJECT CORRIDOR REQUIRING CAPTURE OF SIDE DRAINAGE DUE TO LOCALIZED PONDING.

ITEM 611 - SIDE DRAINAGE 5 EACH.

ITEM 644 - CENTER LINE:
THE PROPER PLACEMENT OF ALL PASSING AND NO PASSING ZONES AS SHOWN ON PLAN SHEETS 75/84 THROUGH 82/84 SHALL BE CONFIRMED BY THE CONTRACTOR AND PLACED BY USING THE CONTROL POINTS SHOWN ON THE PLAN SHEETS LISTED ABOVE. ALL START AND STOP SLM LOCATIONS SHALL BE WITHIN 0.005 MILES OF THE LOCATIONS SHOWN ON THE PLAN SHEETS LISTED ABOVE. A LETTER OF VERIFICATION OF ALL PASSING AND NO PASSING ZONES SHALL BE SUBMITTED TO THE PROJECT ENGINEER FOR PLACEMENT IN THE PROJECT RECORDS. ANY IMPROPERLY PLACED PASSING OR NO PASSING ZONES SHALL BE IMMEDIATELY CORRECTED.

ITEM 644 - THERMOPLASTIC PAVEMENT MARKING:
THE LOCATIONS, SIZES AND SHAPES OF PROPOSED AUXILLARY PAVEMENT MARKINGS WILL BE THE SAME AS EXISTING. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE LOCATION, SIZE AND SHAPE OF THESE EXISTING PAVEMENT MARKINGS BEFORE THE PAVEMENT PLANING AND RESURFACING OBLITERATES THEM. ANY PAVEMENT MARKING WHICH IS PLACED AT THE WRONG LOCATION SHALL BE REMOVED AND REPLACED AT THE CONTRACTORS EXPENSE.

SEEDING AND MULCHING
THE FOLLOWING QUANTITIES ARE PROVIDED TO PROMOTE GROWTH AND CARE OF PERMANENT SEEDED AREAS:

659, TOPSOIL 1,939 CU. YD.

659, SEEDING AND MULCHING 17,466 SQ. YD.

659, REPAIR SEEDING AND MULCHING 874 SQ. YD

659, INTER-SEEDING 874 SQ. YD.

659, COMMERCIAL FERTILIZER 3 TON

659, LIME 3.62 ACRES

659, WATER 47 M. GAL.

SEEDING AND MULCHING SHALL BE APPLIED TO ALL AREAS OF EXPOSED SOIL BETWEEN THE RIGHT-OF-WAY LINES, AND WITHIN THE CONSTRUCTION LIMITS FOR AREAS OUTSIDE THE RIGHT-OF-WAY LINES COVERED BY WORK AGREEMENT OR SLOPE EASEMENT. QUANTITY CALCULATIONS FOR SEEDING AND MULCHING ARE BASED ON THESE LIMITS.

ITEM 605 - AGGREGRATE DRAINS, AS PER PLAN
AGGREGATE DRAINS SHALL BE PLACED AT THE FULL-DEPTH PAVEMENT REPLACEMENT AREAS ONLY AS DETAILED IN THE TYPICAL SECTIONS AND PLACED AT STATIONS SHOWN ON SHEETS 25 AND 30.

CALCULATED SMJ CHECKED BSB

GENERAL NOTES

FRA-62-1.64

SOURCE WATER AREA PROTECTION:

THE PROJECT IS LOCATED NEAR THE DRINKING WATER SOURCE PROTECTION AREA OF THE ORIENT SUNOCO, PSWID#OH2567312. IN ORDER TO MINIMIZE THE POTENTIAL FOR A RELEASE IN THIS SENSITIVE AREA, PROJECT RELATED REFUELING AND MAINTENANCE ACTIVITIES SHALL NOT BE PERFORMED FROM STA. 91+50 TO STA. 101+75. SPILLS OF FUELS, OILS, CHEMICALS, OR OTHER MATERIALS WHICH COULD POSE A THREAT TO THE DRINKING WATER SOURCE AREA SHALL BE CLEANED UP IMMEDIATELY BY THE CONTRACTOR. IF THE SPILL IS A REPORTABLE AMOUNT, THE CONTRACTOR SHOULD CONTACT THE LOCAL HAZARDOUS MATERIALS RESPONSE TEAM FOR CLEAN-UP OF THE SPILL.

ENVIRONMENTAL NOTES:

FOR WORK ON OR ADJACENT TO THE FOLLOWING PROPERTIES:

ORIENT SUNOCO, 6997 HARRISBURG PIKE
SHELL OIL, 6972 HARRISBURG PIKE
BP OIL #25793, 7139 HARRISBURG PIKE

ALL EXCAVATED MATERIALS WITHIN THE AFOREMENTIONED LIMITS MAY BE STOCKPILED IN AN AREA PROVIDED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER. THE ENGINEER MAY PERMIT TEMPORARY STORAGE OF THE SUSPECTED CONTAMINATED SOILS ON AN IMPERMEABLE MEMBRANE. THE MEMBRANE WILL BE SURROUNDED BY BALES OF STRAW TO PREVENT THE SUSPECTED SOILS FROM COMING IN CONTACT WITH THE ORIGINAL SOILS. AN IMPERMEABLE MEMBRANE WILL BE PLACED OVER THE STOCKPILE TO PREVENT CONTACT WITH PRECIPITATION AND/OR SURFACE RUN-OFF. AS AN ALTERNATIVE, THE ENGINEER MAY PERMIT THE CONTRACTOR TO DIRECT LOAD THE EXCAVATED SOILS INTO TRUCKS. OR AS A THIRD ALTERNATIVE, THE CONTRACTOR MAY PLACE THE MATERIAL IN LEAK-PROOF, COVERED CONTAINERS PROVIDED BY THE CONTRACTOR. THE MATERIAL WILL REMAIN ON-SITE UNTIL ANALYTICAL RESULTS ARE RECEIVED BY THE ENGINEER.

THIS MATERIAL WILL BE PROPERLY TESTED (FOR DISPOSAL), TRANSPORTED, AND DISPOSED OF IN A LICENSED (BY THE LOCAL HEALTH DEPARTMENT) AND PERMITTED (BY THE OHIO ENVIRONMENTAL PROTECTION AGENCY) SOLID WASTE FACILITY.

IF EXCAVATIONS WITHIN THE AFOREMENTIONED LIMITS REQUIRE DEWATERING FOR CONSTRUCTION PURPOSES, THE CONTRACTOR WILL DEWATER, CONTAINERIZE, TEST THE WATER (FOR DISPOSAL) AND DISPOSE OF BY METHODS APPROVED BY THE ENGINEER. THE CONTRACTOR WILL OBTAIN ALL THE REQUIRED PERMITS AND /OR AUTHORIZATIONS NEEDED TO STORE, TRANSPORT AND DISPOSE OF THE WATER IN ACCORDANCE WITH APPLICABLE LOCAL, STATE OR FEDERAL REGULATIONS.

THE STORM SEWER BEDDING AND BACKFILL SHALL BE ITEM 613 - LOW STRENGTH MORTAR (LSM). THE INTENT WILL BE TO PREVENT POTENTIALLY CONTAMINATED WATER FROM MIGRATING ALONG THE PIPE BEDDING AND BACKFILL. THE LSM WILL EXTEND FROM THE BOTTOM THE PIPE TRENCH TO A LEVEL ONE FOOT ABOVE THE PIPE. THE LSM BEDDING AND BACKFILL WILL EXTEND A MINIMUM OF TEN (10) FEET BEYOND THE ZONE OF SUSPECTED CONTAMINATION IN BOTH DIRECTIONS.

COMPLETE ALL MANIFEST FOR MATERIAL TO BE TRANSPORTED AND PROVIDE TO THE ENGINEER FOR SIGNATURE. OBTAIN ALL NECESSARY PERMITS AND APPROVALS TO TRANSPORT THE MATERIAL TO A LICENSED AND PERMITTED DISPOSAL FACILITY. CONTACT THE DISPOSAL FACILITY TO DETERMINE IF ANY ADDITIONAL TESTING IS REQUIRED FOR DISPOSAL. PROVIDE ANY ADDITIONAL SAMPLING AND ANALYSIS OF THE MATERIAL AS REQUIRED BY THE DISPOSAL FACILITY. OBTAIN ALL SIGNATURES ON THE MANIFEST FOR TRANSPORTING AND DISPOSAL OF THE MATERIAL AND PROVIDE A FINAL COPY TO THE ENGINEER.

THE CONTRACTOR WILL FURNISH ALL THE LABOR, EQUIPMENT, AND MATERIALS NECESSARY TO PROPERLY HANDLE, STORE, TEST (FOR DISPOSAL), TRANSPORT, AND DISPOSAL; INCLUDING ANY REQUIRED PERMITS, APPROVALS, OR FEES WITHIN THE AFOREMENTIONED LOCATION. PAYMENT FOR THIS WORK WILL BE MADE AT THE CONTRACT PRICE BID PER TON, PER GALLON, PER CUBIC YARD, PER WELL, AND PER UST. THE FOLLOWING ESTIMATED QUANTITY HAS BEEN INCLUDED IN THE GENERAL SUMMARY FOR THE WORK NOTED ABOVE:

ITEM SPECIAL - WORK INVOLVING PETROLEUM CONTAMINATED SOIL	800 TON
ITEM SPECIAL - WORK INVOLVING REGULATED WATER	29800 GAL
ITEM 613 - LOW STRENGTH MORTAR BACKFILL	425 CY

WATER QUALITY PROTECTION:

NO TOXIC OR HAZARDOUS MATERIALS SUCH AS SEALANTS, SOLVENTS, CLEANING AGENTS, WASTE-WATER, FUELS OR DEBRIS OF ANY KIND SHALL BE DISCHARGED TO ANY STREAMS, DRAINAGE COURSES OR BODIES OF WATER. NO DEBRIS SHALL BE PLACED WITHIN THE 100-YEAR FLOODPLAIN BOUNDARY OF ANY WATERCOURSE.

THE CONTRACTOR SHALL TAKE GREAT CARE TO MINIMIZE THE POTENTIAL TO CONTAMINATE THE PUBLIC DRINKING WATER SUPPLY. ALL PROJECT RELATED REFUELING AND MAINTENANCE ACTIVITIES SHALL BE PERFORMED IN AN ENVIRONMENTALLY RESPONSIBLE MANNER.

THE CONTRACTOR SHALL TAKE THE APPROPRIATE ACTIONS IN THE EVENT OF A RELEASE AND WILL BE HELD RESPONSIBLE FOR THE CLEAN UP AND REMEDIATION OF ANY AND ALL SPILLS.

CROSSINGS AND CONNECTIONS TO EXISTING PIPES

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 IN THE PLAN CONDUIT SLOPE, THE ENGINEER SHALL BE NOTIFIED BEFORE STARTING CONSTRUCTION OF ANY PORTION OF THE PROPOSED CONDUIT WHICH WILL 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 OPERATIONS DESCRIBED ABOVE SHALL BE INCLUDED IN THE CONTRACT PRICE FOR THE PERTINENT 611 CONDUIT ITEM.

DRAINAGE AT INTERSECTING STREETS:

AT INTERSECTING STREETS WHERE THE DRAINAGE IS TOWARD OR INTO THE PROJECT, SPECIAL CARE SHALL BE TAKEN BY THE CONTRACTOR TO MAINTAIN PROPER GRADE ALONG THE EDGE OF PAVEMENT SO THAT THE WATER WILL NOT POND. AT INTERSECTING STREETS, WHERE THE EDGE OF PAVEMENT CONTINUES ACROSS THE STREET, CARE SHALL BE TAKEN TO FORM A NEAT SEAM WITH THE PROPER EXISTING GRADE.

REVIEW OF DRAINAGE FACILITIES:

BEFORE ANY WORK IS STARTED ON THE PROJECT AND AGAIN BEFORE FINAL ACCEPTANCE BY THE STATE, REPRESENTATIVES OF THE STATE AND THE CONTRACTOR, ALONG WITH LOCAL REPRESENTATIVES, SHALL MAKE AN INSPECTION OF ALL EXISTING SEWERS WHICH ARE TO REMAIN IN SERVICE AND WHICH MAY BE AFFECTED BY THE WORK. THE CONDITION OF THE EXISTING CONDUITS AND THEIR APPURTENANCE SHALL BE DETERMINED FROM FIELD OBSERVATIONS. RECORDS OF THE INSPECTION SHALL BE KEPT IN WRITING BY THE STATE.

ALL NEW CONDUITS, INLETS, CATCH BASINS, AND MANHOLES CONSTRUCTED AS A PART OF THE PROJECT SHALL BE FREE OF ALL FOREIGN MATTER AND IN A CLEAN CONDITION BEFORE THE PROJECT WILL BE ACCEPTED BY THE STATE.

CROSSINGS AND CONNECTIONS TO EXISTING PIPES

ALL FARM DRAINS, WHICH ARE ENCOUNTERED DURING CONSTRUCTION, SHALL BE PROVIDED WITH UNOBSTRUCTED OUTLETS. EXISTING COLLECTORS WHICH ARE LOCATED BELOW THE ROADWAY DITCH ELEVATIONS, AND WHICH CROSS THE ROADWAY, SHALL BE REPLACED WITHIN THE (RIGHT OF WAY)(CONSTRUCTION) LIMITS BY ITEM 611 CONDUIT,
TYPE B, ONE COMMERCIAL SIZE LARGER THAN THE EXISTING CONDUIT.

EXISTING COLLECTORS AND ISOLATED FARM DRAINS, WHICH ARE ENCOUNTERED ABOVE THE ELEVATION OF ROADWAY DITCHES, SHALL BE OUTLETTED INTO THE ROADWAY DITCH BY 611 TYPE F CONDUIT. THE OPTIMUM OUTLET ELEVATION SHALL BE ONE FOOT ABOVE THE FLOWLINE ELEVATION OF THE DITCH. LATERAL FIELD TILES WHICH CROSS THE ROADWAY SHALL BE INTERCEPTED BY 611, TYPE E CONDUIT, AND CARRIED IN A LONGITUDINAL DIRECTION TO AN ADEQUATE OUTLET OR ROADWAY CROSSING.

THE LOCATION, TYPE, SIZE AND GRADE OF REPLACEMENTS SHALL BE DETERMINED BY THE ENGINEER AND PAYMENT SHALL BE MADE ON FINAL MEASUREMENTS.

EROSION CONTROL PADS AND ANIMAL GUARDS SHALL BE PROVIDED AT THE OUTLET END OF ALL FARM DRAINS AS PER STANDARD CONSTRUCTION DRAWING DM-1.1, EXCEPT WHEN THEY OUTLET INTO A DRAINAGE STRUCTURE. PAYMENT FOR THE EROSION CONTROL PADS AND ANIMAL GUARDS AND ANY NECESSARY BENDS OR BRANCHES SHALL BE INCLUDED FOR PAYMENT IN THE PERTINENT CONDUIT ITEMS.

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED IN THE GENERAL

SUMMARY FOR THE WORK NOTED ABOVE:

611 CONDUIT, TYPE E 40 FT

UNRECORDED TREATED NON-STORM WATER DRAINAGE

FURNISH A CONTINUANCE FOR ALL UNRECORDED TREATED NON-STORMWATER DRAINAGE, SUCH AS TREATED SEPTIC, TREATED WASTEWATER, TREATED CURTAIN/GRADIENT DRAINS, AND TREATED FOUNDATION FLOOR DRAINS DISTURBED BY THE WORK. FURNISH EITHER AN OPEN CONTINUANCE OR AN UNOBSTRUCTED CONTINUANCE BY CONNECTING A CONDUIT THROUGH THE CURB OR INTO A DRAINAGE STRUCTURE. THE LOCATION, TYPE, SIZE AND GRADE OF THE NEEDED CONDUIT TO REPLACE OR EXTEND AN EXISTING DRAIN WILL BE DETERMINED BY THE ENGINEER. ALL SUCH CONTINUANCE REQUIRES A RIGHT OF WAY USE PERMIT. A CONTINUANCE MAY ALSO REQUIRE A NPDES PERMIT FROM THE OHIO ENVIRONMENTAL PROTECTION AGENCY. REPORT ALL CONTINUANCE TO THE LOCAL HEALTH DEPARTMENT.

WHERE MAKING A CONNECTION INTO A HIGHWAY DRAINAGE CONDUIT, AN INSPECTION WELL SHALL BE PROVIDED IN ACCORDANCE WITH STANDARD CONSTRUCTION DRAWING DM-3.1.

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED IN THE GENERAL SUMMARY FOR USE AS DIRECTED BY THE ENGINEER IN MAKING THE ABOVE CONTINUANCE:

611, 12" CONDUIT, TYPE C 20 FT.
611, INSPECTION WELL 2 EACH

EXISTING SUBSURFACE DRAINAGE

PROVIDE UNOBSTRUCTED OUTLETS FOR ALL EXISTING UNDERDRAINS OR AGGREGATE DRAINS ENCOUNTERED DURING CONSTRUCTION.

PROVIDE AN OUTLET PER STANDARD CONSTRUCTION DRAWING DM-1.1 FOR ALL UNDERDRAINS THAT OUTLET TO A SLOPE.

UNDERDRAINS THAT CAN BE CONNECTED TO THE NEW OR EXISTING UNDERDRAINS AT THE END OF THE PROJECT LIMITS AS WELL AS ALL NECESSARY BENDS OR BRANCHES REQUIRED FOR CONNECTION ARE INCLUDED IN THE BASIS OF PAYMENT FOR UNCLASSIFIED PIPE UNDERDRAINS.

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

605, AGGREGATE DRAINS 10 FT.

UNRECORDED ACTIVE SANITARY SEWER CONNECTIONS:

FURNISH A CONTINUANCE FOR ALL UNRECORDED ACTIVE SANITARY SEWER CONNECTIONS SUCH AS SANITARY, WASTEWATER, CURTAIN/ GRADIENT DRAINS, AND FOUNDATION FLOOR DRAINS DISTURBED BY THE WORK. FURNISH AN UNOBSTRUCTED CONTINUANCE OF THE UNRECORDED ACTIVE SANITARY SEWER CONNECTIONS TO THE SATISFACTION OF THE ENGINEER. ALL SUCH CONTINUANCE REQUIRES A RIGHT OF WAY USE PERMIT. ALL SANITARY AND SANITARY WASTEWATER CONTINUANCE MAY ALSO REQUIRE A NPDES PERMIT FROM THE OHIO ENVIRONMENTAL PROTECTION AGENCY. REPORT ALL CONTINUANCE TO THE LOCAL HEALTH DEPARTMENT.

THE FOLLOWING CONDUIT TYPES MAY BE USED: 707.42, 707.43, 707.44, 707.45, 707.46, 707.47, 707.51, 707.52 SDR35, 706.01, 706.02, OR 706.08 WITH JOINTS AS PER 706.11 OR 706.12.

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED IN THE GENERAL SUMMARY FOR USE AS DIRECTED BY THE ENGINEER FOR THE WORK NOTED ABOVE:

611, 6" CONDUIT, TYPE C, FOR SANITARY 50 FT.

UNRECORDED STORM WATER DRAIN

FURNISH A CONTINUANCE FOR ALL UNRECORDED STORM WATER DRAINAGE, SUCH AS ROOF DRAINS, FOOTER DRAINS, OR YARD DRAINS, DISTURBED BY THE WORK. FURNISH EITHER AN OPEN CONTINUANCE OR AN UNOBSTRUCTED CONTINUANCE BY CONNECTING A CONDUIT THROUGH THE CURB OR INTO A DRAINAGE STRUCTURE. THE LOCATION, TYPE, SIZE AND GRADE OF THE NEEDED CONDUIT TO REPLACE OR EXTEND AN EXISTING DRAIN WILL BE DETERMINED BY THE ENGINEER. ALL SUCH CONTINUANCE REQUIRES A RIGHT OF WAY USE PERMIT.

THE FOLLOWING CONDUIT TYPES MAY BE USED: 707.33, 707.41 NON-PERFORATED, 707.42, 707.43, 707.45, 707.46, 707.47, 707.51, 707.52 SDR35.

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED IN THE GENERAL SUMMARY FOR USE AS DIRECTED BY THE ENGINEER FOR THE WORK NOTED ABOVE:

611, 12" CONDUIT, TYPE C, FOR DRAINAGE CONNECTION 20 FT.

CALCULATED SMJ CHECKED BSB

GENERAL NOTES AND DETAILS

FRA-62-1.64

ITEM 251 - PARTIAL DEPTH PAVEMENT REPAIR, AS PER PLAN

ALL REPAIR AREAS WILL BE IDENTIFIED AND MARKED OUT BY THE PROJECT ENGINEER. THE REPAIR AREAS SHALL BE OF VARYING LENGTH AND THE AVERAGE WIDTH SHALL NOT BE LESS THAN 4 FEET. THE AVERAGE DEPTH OF EACH REPAIR SHALL BE 4 INCHES. ALL AREAS SHALL BE FILLED WITH AN EQUAL AMOUNT OF ITEM 301 - ASPHALT CONCRETE BASE. FOR MORE INFORMATION SEE DETAIL (THIS SHEET). NO MORE PARTIAL PAVEMENT REPAIR, AS PER PLAN SHALL BE STARTED AND PERFORMED THAN CAN BE COMPLETED IN THE SAME WORKING DAY.

PAYMENT FOR THIS ITEM SHALL BE UNDER ITEM 251 - PARTIAL DEPTH PAVEMENT REPAIR, AS PER PLAN AND SHALL INCLUDE ANY PAVEMENT REMOVAL, ALL LABOR, TOOLS, EQUIPMENT AND MATERIALS NECESSARY FOR PAVEMENT REPAIR AND INCIDENTAL ITEMS THAT ARE INVOLVED IN PARTIAL DEPTH PAVEMENT REPAIR AND REMOVAL.

ITEM 253 - PAVEMENT REPAIR, AS PER PLAN

THIS ITEM SHALL BE USED AS DIRECTED BY THE ODOT PROJECT ENGINEER. THESE PAVEMENT REPAIRS SHALL CONSIST OF REMOVING THE EXISTING PAVEMENT TO A DEPTH OF 13" (9" ASPAHLT CONCRETE BASE AND APPROXIMATELY 4" ASPHALT CONCRETE SURFACE COURSE). THE PERIMETER OF THE REPAIR AREA SHALL BE SAWED FULL DEPTH WITH A DIAMOND SAW BLADE. THE FULL DEPTH PAVEMENT REPAIR AREA SHALL BE FILLED WITH AN EQUAL AMOUNT OF ITEM 301 - ASPHALT CONCRETE BASE. FOR MORE INFORMATION SEE DETAIL (THIS SHEET). TACK COAT SHALL BE APPLIED TO ALL VERTICAL SERVICES AT THE RATE OF 0.75 PER SQ YD PRIOR TO PLACING ITEM 301 - ASPHALT CONCRETE BASE. ALL PAVEMENT REPAIRS SHALL BE PERFORMED PRIOR TO MILLING. NO MORE PAVEMENT REPAIR SHALL BE STARTED THAN CAN BE COMPLETED IN THE SAME WORKING DAY.

PAYMENT FOR THIS ITEM SHALL BE UNDER ITEM 253 - PAVEMENT REPAIR, AS PER PLAN AND SHALL INCLUDE ANY PAVEMENT REMOVAL, ALL LABOR, TOOLS, EQUIPMENT AND MATERIALS NECESSARY FOR PAVEMENT REPAIR AND INCIDENTAL ITEMS THAT ARE INVOLVED IN PAVEMENT REPAIR AND REMOVAL.

ITEM 254 - PAVEMENT PLANING, ASPHALT CONCRETE, AS PER PLAN

THE CONTRACTOR SHALL BE TOTALLY RESPONSIBLE FOR ANY AND ALL DAMAGE TO THE CONTRACTOR'S EQUIPMENT THAT MAY RESULT FORM THE PLANING OPERATION, INCLUDING DAMAGE CAUSED BY CASTINGS AND LOOP DETECTORS. THE DEPTH OF PLANING CLOSE TO THE CASTINGS SHALL BE DIRECTED; TO ACHIEVE A SMOOTH RIDING FINISHED PAVEMENT. GREAT CARE SHALL BE TAKEN TO PREVENT THE REMOVAL OF THE EXISTING PAVEMENT CROSS-SLOPE (CROWN) DURING THE PLANING OPERATIONS.

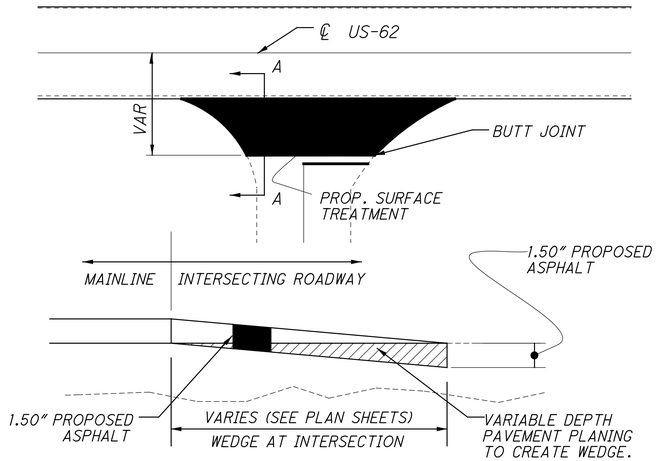
ALL PLANED PAVEMENT BETWEEN SLM 1.64 AND SLM 1.90 SHALL BE PLANED AND RESURFACED WITHIN THE SAME WORK PERIOD.

ITEM 255 - FULL DEPTH PAVEMENT SAWING, AS PER PLAN

THE FULL DEPTH PAVEMENT SAWING SHALL CONSIST OF SAW CUTTING THE PERIMETER OF FULL DEPTH PAVEMENT REPLACEMENT, TO FULL DEPTH, WITH A DIAMOND BLADE SAW AND REMOVING THE EXISTING PAVEMENT.

THE FULL DEPTH PAVEMENT REPLACEMENT AREA SHALL BE REPLACED WITH MATERIALS REFERENCED IN THE TYPICAL SECTIONS.

PAYMENT FOR THIS ITEM SHALL BE UNDER ITEM 255 - FULL DEPTH PAVEMENT SAWING, AS PER PLAN AND SHALL INCLUDE PAVEMENT REMOVAL, ALL LABOR, TOOLS, EQUIPMENT AND MATERIALS NECESSARY FOR PAVEMENT SAWING AND INCIDENTAL ITEMS THAT ARE INVOLVED IN PAVEMENT SAWING AND REMOVAL.

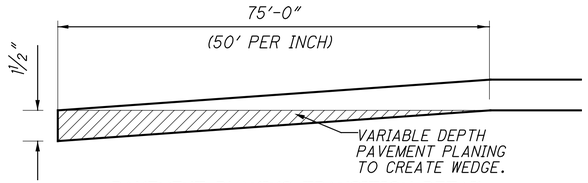


SECTION A-A

TYPICAL INTERSECTION DETAIL

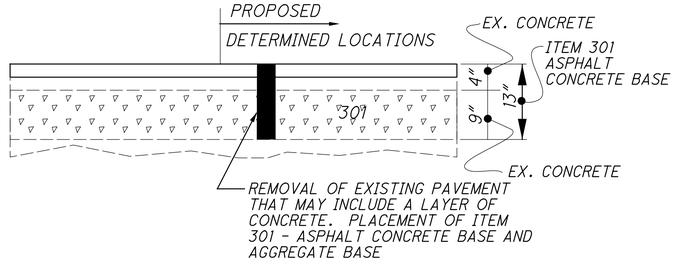
FRA-62 SLM 2.07 AT ZUBER RD. RT

FOR THESE INTERSECTIONS AND INTERSECTIONS NOT LISTED, SEE PLAN SHEETS FOR DETAILS



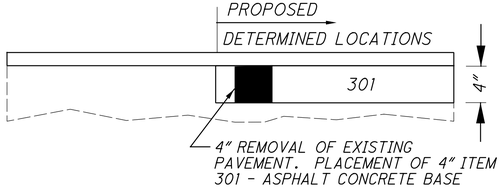
PAVEMENT PLANING TRANSITION DETAIL

VARIABLE DEPTH PAVEMENT PLANING TO ACHIEVE PROPER TRANSITION BETWEEN PLANED AND NON-PLANED TREATMENTS. THIS DETAIL ALSO INCLUDES BUTT JOINTS AT BEGIN AND END LOCATIONS AND AT STRUCTURES. FOR SPECIFIC LOCATIONS OF THIS VARIABLE DEPTH PLANING, SEE PLAN SHEETS 20 & 29 .



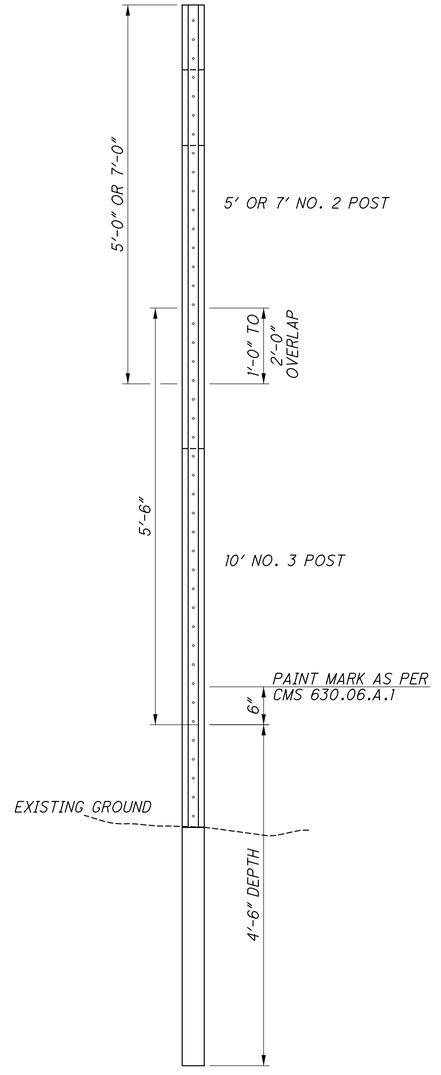
PAVEMENT REPAIR DETAIL

SEE GENERAL NOTES ITEM 253 - PAVEMENT REPAIR, AS PER PLAN



PARTIAL DEPTH PAVEMENT REPAIR DETAIL

SEE GENERAL NOTES ITEM 251 - PARTIAL DEPTH PAVEMENT REPAIR, AS PER PLAN



TYPICAL NO. 2 AND NO. 3 U-CHANNEL SPLICE WITH 10' DRIVEN SECTION INSTALLATION

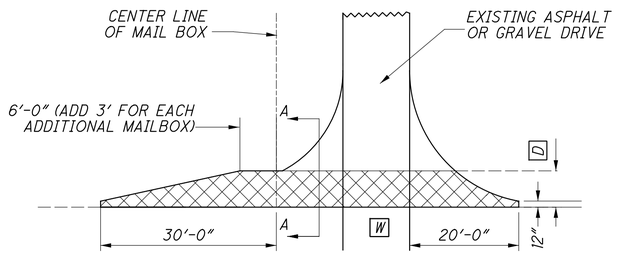
NOTE: USE ALUMINUM BOLTS TO ATTACH SIGN TO NO. 2 POST. USE 2 STAINLESS STEEL BOLTS TO SPLICE NO. 2 TO NO. 3 POST.

FOR PAVEMENT MARKING PLANS, SEE SHEETS 75-82.

CALCULATED SMJ
CHECKED BSB

GENERAL NOTES AND DETAILS

FRA-62-1.64

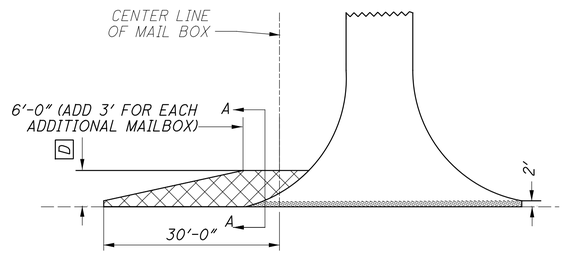


TYPICAL APPROACH #1
COMBINED DRIVEWAY & MAIL BOX APPROACH

MAIL BOX POSITIONED PAST DRIVE SHOWN. MIRROR FOR MAILBOX PRECEDING DRIVE.

THE EXISTING MAIL BOX POSITION SHALL REMAIN. DIMENSION [D] SHALL NOT EXCEED 6'

[W] = WIDTH OF EXISTING DRIVEWAY.

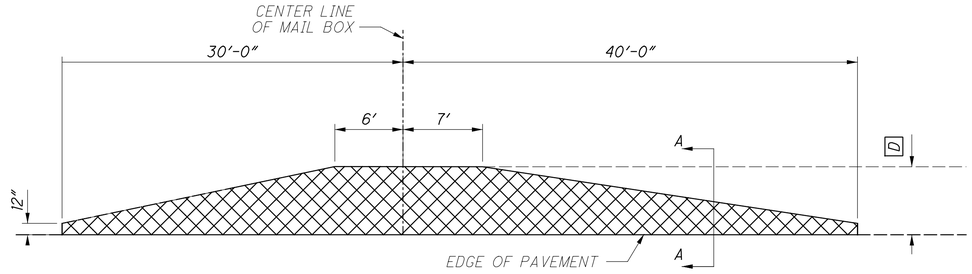


TYPICAL APPROACH #2
COMBINED DRIVEWAY & MAIL BOX APPROACH

MAIL BOX POSITIONED PAST DRIVE SHOWN. MIRROR FOR MAILBOX PRECEDING DRIVE.

THE EXISTING MAIL BOX POSITION SHALL REMAIN. DIMENSION [D] SHALL NOT EXCEED 6'

[W] = WIDTH OF EXISTING DRIVEWAY.

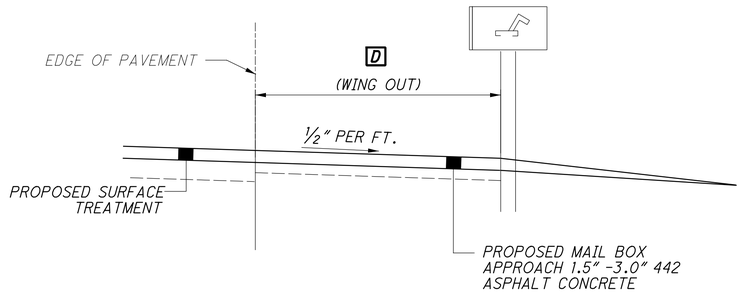


TYPICAL APPROACH #3
TYPICAL MAIL BOX APPOACH

MAIL BOX POSITIONED PAST DRIVE SHOWN. MIRROR FOR MAILBOX PRECEDING DRIVE.

THE EXISTING MAIL BOX POSITION SHALL REMAIN. DIMENSION [D] SHALL NOT EXCEED 6'

[W] = WIDTH OF EXISTING DRIVEWAY.



SECTION A-A
MAIL BOX APPROACH DETAIL

IT MAY BE NECESSARY FOR THE CONTRACTOR TO PAVE AN INTERMEDIATE LAYER OF THE PROPOSED ASPHALT MATERIAL PRIOR TO THE "WING OUT" IN ORDER TO MEET LIFT REQUIREMENTS.

TYPICAL DETAILS

FRA-62-1.64

ITEM 614, MAINTAINING TRAFFIC

GENERAL:
ALL TRAFFIC CONTROL DEVICES SHALL BE FURNISHED, ERECTED, MAINTAINED, AND REMOVED BY THE CONTRACTOR IN ACCORDANCE WITH THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (CURRENT EDITION). COPIES ARE AVAILABLE FROM:

THE OHIO DEPARTMENT OF TRANSPORTATION
BUREAU OF TRAFFIC,
1980 WEST BROAD STREET
COLUMBUS, OHIO 43223.

ITEM 614, MAINTAINING TRAFFIC (LANES OPEN DURING HOLIDAYS OR SPECIAL EVENTS)
NO WORK SHALL BE PERFORMED AND ALL EXISTING LANES SHALL BE OPEN TO TRAFFIC DURING THE FOLLOWING DESIGNATED HOLIDAYS AND EVENTS:

CHRISTMAS	FOURTH OF JULY
NEW YEARS	LABOR DAY
MEMORIAL DAY	THANKSGIVING

THE PERIOD OF TIME THAT THE LANES ARE TO BE OPEN DEPENDS ON THE DAY OF THE WEEK ON WHICH THE HOLIDAY OR EVENT FALLS. THE FOLLOWING SCHEDULE SHALL BE USED TO DETERMINE THIS PERIOD:

DAY OF HOLIDAY OR EVENT	TIME ALL LANES MUST BE OPEN TO TRAFFIC
SUNDAY	12:00N FRIDAY THROUGH 6:00 AM MONDAY
MONDAY	12:00N FRIDAY THROUGH 6:00 AM TUESDAY
TUESDAY	12:00N MONDAY THROUGH 6:00 AM WEDNESDAY
WEDNESDAY	12:00N TUESDAY THROUGH 6:00 AM THURSDAY
THURSDAY	12:00N WEDNESDAY THROUGH 6:00 AM FRIDAY
THURSDAY (THANKSGIVING ONLY)	5:00AM WEDNESDAY THROUGH 6:00 AM MONDAY
FRIDAY	12:00N THURSDAY THROUGH 6:00 AM MONDAY
SATURDAY	12:00N FRIDAY THROUGH 6:00 AM MONDAY

NO EXTENSIONS OF TIME SHALL BE GRANTED FOR DELAYS IN MATERIAL DELIVERIES, UNLESS SUCH DELAYS ARE INDUSTRY-WIDE, OR FOR LABOR STRIKES, UNLESS STRIKES ARE AREA-WIDE.

SHOULD THE CONTRACTOR FAIL TO MEET ANY OF THESE REQUIREMENTS, THE CONTRACTOR SHALL BE ASSESSED A DISINCENTIVE IN THE AMOUNT OF $50 FOR EACH MINUTE THE ABOVE DESCRIBED LANE CLOSURE RESTRICTIONS ARE VIOLATED.

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

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

NOTIFICATION OF TRAFFIC RESTRICTIONS:
THROUGHOUT THE DURATION OF THE PROJECT, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IN WRITING OF ALL TRAFFIC RESTRICTIONS AND UPCOMING MAINTENANCE OF TRAFFIC CHANGES. THE CONTRACTOR SHALL ENSURE THE WRITTEN NOTIFICATION IS SUBMITTED IN A TIMELY MANNER TO ALLOW THE PROJECT ENGINEER TO MEET THE REQUIRED TIME FRAMES SET FORTH IN THE TABLE BELOW. THIS NOTIFICATION SHALL BE RECEIVED BY THE PROJECT ENGINEER PRIOR TO THE PHYSICAL SETUP OF ANY APPLICABLE SIGNS OR MESSAGE BOARDS.

INFORMATION SHOULD INCLUDE BUT IS NOT LIMITED TO ALL CONSTRUCTION ACTIVITIES THAT IMPACT OR INTERFERE WITH TRAFFIC AND SHOULD LIST THE SPECIFIC LOCATION, TYPE OF WORK, ROAD STATUS, DATE ANND TIME OF RESTRICTION, DURATION OF RESTRICTION, NUMBER OF LANES MAINTAINED, DETOUR ROUTES IF APPLICABLE, AND ANY OTHER INFORMATION REQUESTED BY THE PROJECT ENGINEER.

NOTIFICATION OF TRAFFIC RESTRICTIONS (CONTINUED):

ITEM	DURATION OF CLOSURE	NOTIFICATION DUE TO DISTRICT 6 COMMUNICATIONS OFFICE
RAMP AND ROAD CLOSURES	>= 2 WEEKS	14 BUSINESS DAYS PRIOR TO CLOSURE
	> 12 HOURS AND < 2 WEEKS	7 BUSINESS DAYS PRIOR TO CLOSURE
	< 12 HOURS	2 BUSINESS DAYS PRIOR TO CLOSURE
LANE CLOSURES/ RESTRICTIONS	>= 2 WEEKS	7 BUSINESS DAYS PRIOR TO CLOSURE
	< 2 WEEKS	2 BUSINESS DAYS PRIOR TO CLOSURE

ANY UNFORESEEN CONDITIONS NOT SPECIFIED IN THE PLANS REQUIRING TRAFFIC RESTRICTIONS SHALL ALSO BE REPORTED TO THE PROJECT ENGINEER USING THE NOTIFICATION TIME FRAME TABLE.

USE OF STANDARD DRAWINGS:
FOR THE PURPOSE OF THIS PROJECT, "MOVING OPERATION" SHALL BE LIMITED TO PAVING/MILLING AND PAVEMENT MARKING STRIPING.

IT MAY BE NECESSARY TO EXTEND THE ADVANCE WARNING AND BUFFER ZONES BEYOND THE MINIMUM DISTANCES SHOWN ON THE STANDARD DRAWINGS. THIS MAY BE DUE TO HORIZONTAL ALIGNMENT, VERTICAL ALIGNMENT, RAMP LOCATIONS, OR OTHER SIGHT OBSTRUCTIONS. LOCATIONS OF THE TAPER ZONES MAY BE ADJUSTED AS DIRECTED BY THE ENGINEER, BUT THE TAPER LENGTHS MUST MEET THE MINIMUM STANDARDS. TAPERS SHOULD BE PLACED IN TANGENT SECTIONS WHENEVER POSSIBLE. ADDITIONAL YIELD SIGNS MAY BE REQUIRED FOR RAMPS WITHIN 1,000 FEET OF A WORK ZONE. PAYMENT SHALL BE INCLUDED IN THE LUMP SUM CONTRACT PRICE FOR ITEM 614 - MAINTAINING TRAFFIC.

PUBLIC NOTIFICATION:
THE CONTRACTOR IS TO BE RESPONSIBLE FOR NOTIFYING, BY LETTER WITH HIS COMPANY LETTERHEAD, RESIDENTS, AND BUSINESSES ON US-62 WHERE DRIVEWAYS WILL BE IMPACTED DURING THE RESURFACING. ADVANCED NOTICE SHALL BE TWO WEEKS PRIOR TO THE FIRST DAY OF WORK AT THAT LOCATION. A COPY OF THE LETTER TO BE CIRCULATED SHALL BE PRESENTED AT THE PRE-CONSTRUCTION MEETING. THE CONTRACTOR IS TO NOTIFY THE PROJECT ENGINEER OF THE DATES WHEN THIS NOTIFICATION IS DISTRIBUTED.

ACCESS TO SIDE STREETS:
MAINTAIN ACCESS TO ANY SIDE STREETS AT ALL TIMES BY USE OF PART WIDTH CONSTRUCTION. PAYMENT FOR ALL LABOR, EQUIPMENT AND MATERIALS WILL BE INCLUDED IN THE LUMP SUM CONTRACT PRICE FOR 614 - MAINTAINING TRAFFIC.

ACCESS TO PRIVATE PROPERTY:
MAINTAIN ACCESS TO COMMERCIAL PROPERTIES WITH ONLY ONE DRIVEWAY AT ALL TIMES BY USE OF PART WIDTH CONSTRUCTION. FOR COMMERCIAL PROPERTIES WITH MULTIPLE DRIVEWAYS, DO NOT CLOSE MORE THAN ONE DRIVEWAY AT A TIME. MAINTAIN ACCESS TO RESIDENTIAL PROPERTIES AT ALL TIMES. WHEN A RESIDENTIAL DRIVE IS CLOSED FOR CONSTRUCTION, MAINTAIN ALTERNATE ACCESS TO THE PROPERTY. SUCCESSFULLY NOTIFY THE OCCUPANTS/OWNERS OF COMMERCIAL OR RESIDENTIAL DRIVES TO BE CLOSED AND COORDINATE THE CLOSURE AT LEAST 48 HOURS BEFORE THE CLOSURE BEGINS (SIMPLY LEAVING A WRITTEN NOTICE OR PHONE MESSAGE IS NOT SUFFICIENT). COORDINATE ALTERNATE ACCESS TO RESIDENTIAL PROPERTIES WITH THE OWNER/OCCUPANT. PAYMENT FOR ALL LABOR, EQUIPMENT AND MATERIALS WILL BE INCLUDED IN THE LUMP SUM CONTRACT PRICE FOR 614 - MAINTAINING TRAFFIC.

ITEM 614 - LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE DURING CONSTRUCTION OPERATIONS:
USE OF LEOS BY CONTRACTORS OTHER THAN THE USES SPECIFIED BELOW WILL NOT BE PERMITTED AT PROJECT COST UNLESS PRIOR APPROVAL HAS BEEN OBTAINED FROM THE PROJECT ENGINEER. LAW ENFORCEMENT OFFICERS (LEOS) SHOULD NOT BE USED WHERE THE OMUTCD INTENDS THAT FLAGGERS BE USED. IN ADDITION TO THE REQUIREMENTS OF CMS 614 AND THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (OMUTCD), A UNIFORMED LAW ENFORCEMENT OFFICER WITH AN OFFICIAL PATROL CAR (CAR WITH TOP-MOUNTED EMERGENCY FLASHING LIGHTS AND COMPLETE MARKINGS OF THE APPROPRIATE LAW ENFORCEMENT AGENCY) SHOULD BE PROVIDED FOR THE FOLLOWING TRAFFIC CONTROL TASKS:

1. THE USE OF A LAW ENFORCEMENT OFFICER WITH PATROL CAR IS REQUIRED WHERE A COMPLETE BLOCKAGE OF APPROACH TRAFFIC IS REQUIRED.

2. THE USE OF A LAW ENFORCEMENT OFFICER WITH PATROL CAR IS REQUIRED IF THE CONTRACTOR TURNS THE INTERSECTION SIGNALS OFF OR PUTS THE INTERSECTION IN FLASHING OPERATION, AND WHEN THE LEO DIRECTS TRAFFIC THROUGH THE INTERSECTION CONTRARY TO THE SIGNAL DISPLAY.

ITEM 614 - LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE DURING CONSTRUCTION OPERATIONS (CONTINUED):
LAW ENFORCEMENT OFFICERS SHOULD NOT FORSAKE THEIR TRAFFIC CONTROL RESPONSIBILITIES TO CHASE MOTORISTS FOR ROUTINE TRAFFIC VIOLATIONS. HOWEVER, IF THE MOTORISTS ACTIONS ARE CONSIDERED TO BE RECKLESS, THEN PURSUIT OF THE MOTORIST MAY BE ACCEPTABLE.

THE LEOS WORK AT THE DIRECTION OF THE CONTRACTOR. THE CONTRACTOR IS RESPONSIBLE FOR SECURING THE SERVICES OF THE LEO'S AND COMMUNICATING THE INTENTIONS OF THE PLANS WITH RESPECT TO DUTIES OF THE LEO. THE ENGINEER SHALL HAVE FINAL CONTROL OVER THEIR RESPECTIVE DUTIES, PLACEMENT, AND WILL RESOLVE ANY ISSUES BETWEEN THE TWO PARTIES THAT MAY ARISE. THE CONTRACTOR SHALL MAKE ARRANGEMENTS FOR THE SERVICES WITH:

THE OHIO HIGHWAY PATROL 1-614-466-2660
FRANKLIN COUNTY SHERIFF 1-614-525-6113

THE LEO SHOULD REPORT IN TO THE CONTRACTOR PRIOR TO THE START OF THE SHIFT, IN ORDER TO RECEIVE INSTRUCTIONS REGARDING SPECIFIC WORK ASSIGNMENTS DURING THE SHIFT. THE CONTRACTOR SHALL PROVIDE THE LEO WITH A TWO-WAY COMMUNICATION DEVICE WHICH SHALL BE RETURNED TO THE CONTRACTOR AT THE END OF THE SHIFT.

LAW ENFORCEMENT OFFICERS (WITH PATROL CAR) REQUIRED BY THE TRAFFIC MAINTENANCE TASKS ABOVE SHALL BE PAID FOR ON A UNIT PRICE (HOURLY) BASIS UNDER ITEM 614, LAW ENFORCEMENT OFFICER WITH PATROL C?R. THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY.

ANY ADDITIONAL COSTS (ADMINISTRATIVE OR OTHERWISE) INCURRED BY THE CONTRACTOR TO OBTAIN THE SERVICES OF A L.E.O. ARE INCLUDED WITHIN THE BID UNIT PRICE FOR ITEM 614 LAW ENFORCEMENT OFFICER WITH PATROL CAR. THE HOURS PAID SHALL INCLUDE ANY MINIMUM SHOW-UP TIME REQUIRED BY THE LAW ENFORCEMENT AGENCY INVOLVED. THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN PROVIDED:

ITEM 614 - LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE	40 HOURS

PLACEMENT OF ASPHALT CONCRETE
TWO-WAY TRAFFIC SHALL BE MAINTAINED AT ALL TIMES EXCEPT THAT ONE-WAY TRAFFIC WILL BE PERMITTED FOR MINIMUM PERIODS OF TIME CONSISTENT WITH THE REQUIREMENTS OF THE SPECIFICATIONS FOR PROTECTION OF COMPLETED ASPHALT CONCRETE COURSES.

SEQUENCE OF CONSTRUCTION
PHASE 1 - BEGINNING AT MANHOLE D36, CONSTRUCT THE LEFT SIDE (WEST) STORM SEWER SYSTEM BY WORKING BEYOND THE SHOULDER AND USING STANDARD DRAWING MT-97.12 FOR SUPPLYING MATERIALS. TRANSVERSE PIPES SHALL BE INSTALLED BY PART WIDTH OPEN CUT WHILE MAINTAINING TRAFFIC WITH FLAGGERS AS PER STANDARD DRAWING MT-97.10.

PHASE 2 - CONSTRUCT THE RIGHT SIDE (EAST) STORM SEWER FROM THE SOUTH BY WORKING BEYOND THE SHOULDER UP TO STATION 95+93.31. FROM STATIONS 95+93.31 TO 97+11.32 THE STORM SEWER CROSSING THE EXISTING RAMPS FROM I.R. 71 SHALL BE CONSTRUCTED PART WIDTH WHILE MAINTAINING TRAFFIC ON THE RAMP AS PER STANDARD DRAWING MT-98.28. FROM STATION 97+11.32 TO 108+97.73 STORM SEWER SHALL BE INSTALLED BY WORKING BEYOND THE SHOULDER. FROM STATION 108+97.73 TO 109+60.64 (ZUBER RD) PIPE SHALL BE INSTALLED BY PART WIDTH OPEN CUT WHILE MAINTAINING TRAFFIC BY USING FLAGGERS. THE REMAINING EAST SIDE STORM SYSTEM AND BMPS CAN BE INSTALLED BY WORKING BEYOND THE SHOULDER.

PHASE 3 - MILLING AND PAVING OPERATIONS SHALL CONFORM TO STANDARD DRAWING MT-97.12 WHILE THE PAVEMENT MARKING MOT SHALL CONFORM TO STANDARD DRAWING MT-99.20.

NOTE: ALL STORM TRENCHES SHALL BE BACKFILLED AT THE END OF EACH WORKDAY.

TRANSVERSE DRAINAGE
BEFORE ANY ROADWAY CONSTRUCTION BEGINS THE CONTRACTOR SHALL CONSTRUCT THE TRANSVERSE DRAINAGE CROSSINGS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN ADEQUATE DRAINAGE THROUGHOUT ALL PHASES OF CONSTRUCTION. THIS MAY REQUIRE TEMPORARY CONDUITS AND/OR TEMPORARY DITCHING. TRAFFIC CONTROL DURING THIS OPERATION SHALL BE AS PER STANDARD DRAWING MT-97.10. ANY LANE RESTRICTIONS CAUSED BY THE TRANSVERSE DRAINAGE CROSSING WORK SHALL BE LIMITED TO BETWEEN THE HOURS OF 8:00AM AND 4:00PM OR 6:00PM AND 6:00AM TO MINIMIZE THE IMPACT TO TRAFFIC.

CALCULATED SMJ
CHECKED BSB

MAINTENANCE OF TRAFFIC NOTES

FRA-62-1.64

SHEET NUMBER											PART.			ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
4	5	8	21	22	25	26	30	31	83	84	03/S<2/PV	01/STR/PV	02/STR/OT						
																		ROADWAY	
													LS	201	11000	LS		CLEARING AND GRUBBING	
					1								1	202	20010	1	EACH	HEADWALL REMOVED	
			3486		2719		3379						9584	202	35100	9584	FT	PIPE REMOVED, 24" AND UNDER	
			50										50	202	38000	50	FT	GUARDRAIL REMOVED	
			2										2	202	42050	2	EACH	ANCHOR ASSEMBLY REMOVED, TYPE B	
			11		7		8						26	202	58100	26	EACH	CATCH BASIN REMOVED	
					66		48						114	SPECIAL	20270000	114	FT	FILL AND PLUG EXISTING CONDUIT	
			168										168	202	98300	168	SY	REMOVAL MISC.: CRUSHED AGGREGATE SLOPE PROTECTION	
			0.17		0.68		1.09				0.01	1.93		209	72051	1.94	MILE	PREPARING SUBGRADE FOR SHOULDER PAVING, AS PER PLAN	4
			168										168	601	20000	168	SY	CRUSHED AGGREGATE SLOPE PROTECTION	
			50										50	606	15050	50	FT	GUARDRAIL, TYPE MGS	
			2										2	606	26050	2	EACH	ANCHOR ASSEMBLY, MGS TYPE B	
			5		8		1						14	SPECIAL	69050350	14	EACH	MAILBOX REMOVED AND RESET	
																		EROSION CONTROL	
1939													1939	659	00300	1939	CY	TOPSOIL	
17466													17466	659	00510	17466	SY	SEEDING AND MULCHING, CLASS 2	
874													874	659	14000	874	SY	REPAIR SEEDING AND MULCHING	
874													874	659	15000	874	SY	INTER-SEEDING	
3													3	659	20000	3	TON	COMMERCIAL FERTILIZER	
3.62													3.62	659	31000	3.62	ACRE	LIME	
47													47	659	35000	47	MGAL	WATER	
													LS	832	15001	LS		STORM WATER POLLUTION PREVENTION PLAN, AS PER PLAN	17
													70105	832	30000	70105	EACH	EROSION CONTROL	
																		ENVIRONMENTAL / REMEDIATION	
	425												425	613	41200	425	CY	LOW STRENGTH MORTAR BACKFILL	
	800												800	SPECIAL	69065016	800	TON	WORK INVOLVING PETROLEUM CONTAMINATED SOIL	
	29800												29800	SPECIAL	69065024	29800	GAL	WORK INVOLVING REGULATED WATER	
																		DRAINAGE	
						0.31							0.31	602	20000	0.31	CY	CONCRETE MASONRY	
				10									10	611	00400	10	FT	4" CONDUIT, TYPE E, 706.08	
						31							31	611	00400	31	FT	4" CONDUIT, TYPE E, 707.32, 707.33	
	50												50	611	01100	50	FT	6" CONDUIT, TYPE C, FOR SANITARY	
				20									20	611	01400	20	FT	6" CONDUIT, TYPE E, 706.08	
								10					10	611	02500	10	FT	8" CONDUIT, TYPE E, 706.08	
				10		10		40					60	611	03600	60	FT	10" CONDUIT, TYPE E, 706.08	
						130							130	611	04400	130	FT	12" CONDUIT, TYPE B	
						435		215					650	611	04600	650	FT	12" CONDUIT, TYPE C	
				133		352		40					525	611	04900	525	FT	12" CONDUIT, TYPE D	
				10		6		20					36	611	05100	36	FT	12" CONDUIT, TYPE E, 706.08	
								10					10	611	05100	10	FT	12" CONDUIT, TYPE E, 707.32, 707.33	
						124		308					432	611	05900	432	FT	15" CONDUIT, TYPE B	
				11		35		136					182	611	06100	182	FT	15" CONDUIT, TYPE C	
				149		311		69					529	611	07400	529	FT	18" CONDUIT, TYPE B	
				21		51		300					372	611	07600	372	FT	18" CONDUIT, TYPE C	
				368									368	611	08900	368	FT	21" CONDUIT, TYPE B	
				233									233	611	09100	233	FT	21" CONDUIT, TYPE C	
				918									918	611	10400	918	FT	24" CONDUIT, TYPE B	
								731					731	611	10600	731	FT	24" CONDUIT, TYPE C	
								379					379	611	12100	379	FT	27" CONDUIT, TYPE C	
								1105					1105	611	13600	1105	FT	30" CONDUIT, TYPE C	
				1707		1934		68					3709	611	16400	3709	FT	36" CONDUIT, TYPE B	
						266							266	611	16600	266	FT	36" CONDUIT, TYPE C	
				3		11		13					27	611	98300	27	EACH	CATCH BASIN, NO. 5	
				2		4		6					12	611	98341	12	EACH	CATCH BASIN, NO. 5A	
5													5	611	98390	5	EACH	CATCH BASIN, NO. 7 - STANDARD SIDE DRAIN	
				1									1	611	98470	1	EACH	CATCH BASIN, NO. 2-2B	
				2									2	611	98510	2	EACH	CATCH BASIN, NO. 2-3	
				1									1	611	98540	1	EACH	CATCH BASIN, NO. 2-4	

CALCULATED SMJ CHECKED BSB

GENERAL SUMMARY

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SHEET NUMBER											PART.			ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
4	5	8	21	22	25	26	30	31	83	84	03/S<2/PV	01/STR/PV	02/STR/OT						
																		DRAINAGE	
					45		120					165		605	31101	165	FT	AGGREGATE DRAINS, AS PER PLAN	4
				1		3		1					5	611	99574	5	EACH	MANHOLE, NO. 3	
				533		1705		1672					3910	670	00760	3910	SY	DITCH EROSION PROTECTION MAT, TYPE F	
																		PAVEMENT	
												200		251	01001	200	SY	PARTIAL DEPTH PAVEMENT REPAIR, AS PER PLAN	6
												50		253	02001	50	CY	PAVEMENT REPAIR, AS PER PLAN	6
			7688				275				267	7696		254	01001	7963	SY	PAVEMENT PLANING, ASPHALT CONCRETE, AS PER PLAN	6
			214		242		388					844		255	20001	844	FT	FULL DEPTH PAVEMENT SAWING, AS PER PLAN	6
			24		29		43					96		301	46000	96	CY	ASPHALT CONCRETE BASE, PG64-22	
			16		20		30					66		304	20000	66	CY	AGGREGATE BASE	
			660		443		784				20	1867		407	10000	1887	GAL	TACK COAT	
			420		411		449				11	1269		442	20000	1280	CY	ASPHALT CONCRETE SURFACE COURSE, 12.5MM, TYPE A (448)	
			18		7		14				1	38		617	10100	39	CY	COMPACTED AGGREGATE	
																		TRAFFIC CONTROL	
									82	41	5	118		621	00100	123	EACH	RPM	
									39	41		80		621	54000	80	EACH	RAISED PAVEMENT MARKER REMOVED	
									73			73		630	02100	73	FT	GROUND MOUNTED SUPPORT, NO. 2 POST	
									130			130		630	03100	130	FT	GROUND MOUNTED SUPPORT, NO. 3 POST	
									1.38	1.31	0.01	2.68		644	00100	2.69	MILE	EDGE LINE, 4"	
									0.67	0.57	0.02	1.22		644	00300	1.24	MILE	CENTER LINE	
									117		90	27		644	00400	117	FT	CHANNELIZING LINE, 8"	
									62			62		644	00500	62	FT	STOP LINE	
									1			1		644	01300	1	EACH	LANE ARROW	
																		MAINTENANCE OF TRAFFIC	
		40											40	614	11110	40	HOUR	LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE	
																		INCIDENTALS	
													LS	103	05000	LS		PREMIUM FOR CONTRACT PERFORMANCE BOND AND FOR PAYMENT BOND	
													LS	614	11000	LS		MAINTAINING TRAFFIC	
													4	619	16010	4	MNTH	FIELD OFFICE, TYPE B	
													LS	623	10000	LS		CONSTRUCTION LAYOUT STAKES AND SURVEYING	
													LS	624	10000	LS		MOBILIZATION	

CALCULATED SMJ CHECKED BSB

GENERAL SUMMARY

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84

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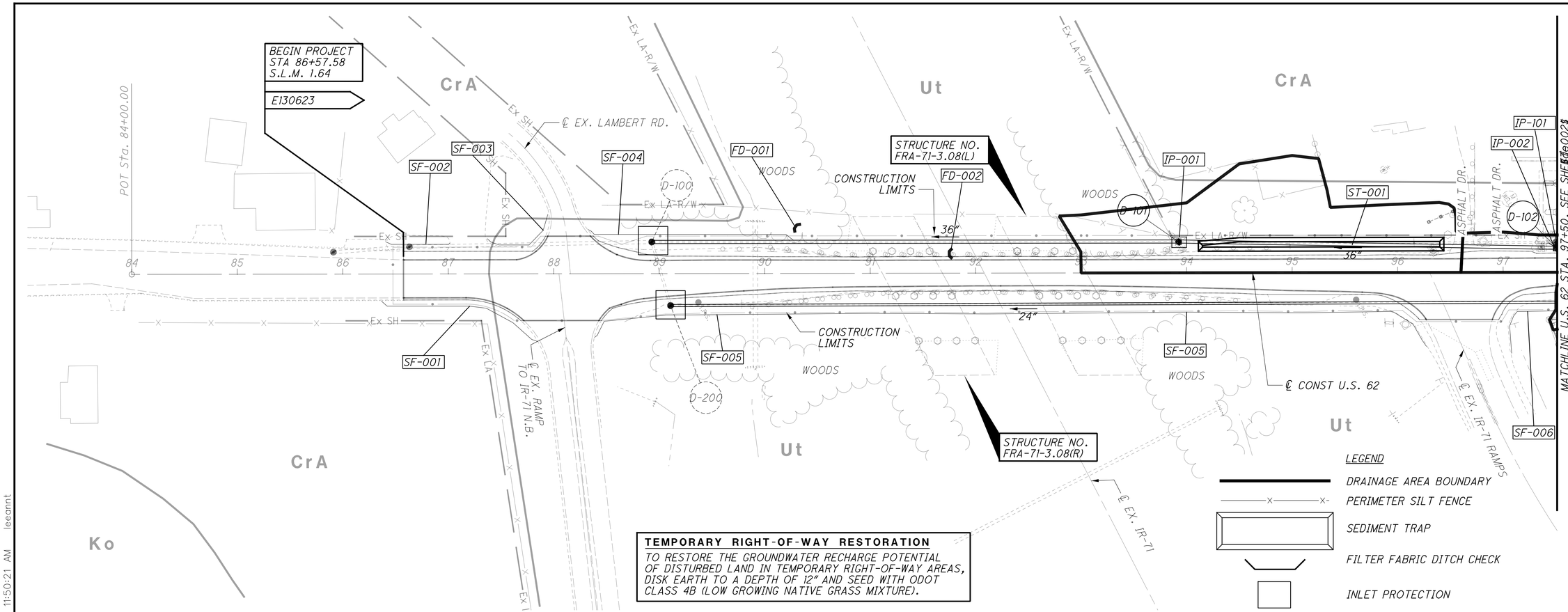


TEMPORARY RIGHT-OF-WAY RESTORATION

TO RESTORE THE GROUNDWATER RECHARGE POTENTIAL OF DISTURBED LAND IN TEMPORARY RIGHT-OF-WAY AREAS, DISK EARTH TO A DEPTH OF 12″ AND SEED WITH ODOT CLASS 4B (LOW GROWING NATIVE GRASS MIXTURE).

LEGEND

- DRAINAGE AREA BOUNDARY
- PERIMETER SILT FENCE
- SEDIMENT TRAP
- FILTER FABRIC DITCH CHECK
- INLET PROTECTION
- ROCK CHECK DAM

NOTES:

INLET PROTECTION

1. INLET PROTECTION SHALL BE PLACED AT ALL DRAINAGE STRUCTURES. INLET PROTECTION MAY BE INSTALLED ON A ROLLING BASIS AS CONSTRUCTION PROCEEDS, BUT MUST BE IN PLACE PRIOR TO DISTURBANCE IN A STRUCTURE'S WATERSHED.

2. AT STRUCTURES DESTINED FOR REMOVAL AND REPLACEMENT, INLET PROTECTION SHALL BE PLACED AT THE EXISTING STRUCTURE UNTIL IT IS REMOVED. UPON PLACEMENT OF THE PROPOSED STRUCTURE, PLACE INLET PROTECTION AROUND THE NEW STRUCTURE. A QUANTITY OF INLET PROTECTION HAS BEEN PROVIDED FOR BOTH STRUCTURES. INLET PROTECTION FOR THESE STRUCTURES CARRIES A DUAL DESIGNATION OF IP-01X AND IP-001 FOR USE ON THE OLD AND NEW STRUCTURES RESPECTIVELY.

3. FOR STRUCTURES THAT WILL BE REMOVED WITH NO REPLACEMENT, PLACE INLET PROTECTION AROUND THE EXISTING STRUCTURE UPON DISTURBANCE IN THE STRUCTURE WATERSHED. WHEN THE STRUCTURE IS REMOVED, THE INLET PROTECTION MAY ALSO BE REMOVED. INLET PROTECTION IN THESE CASES IS INDICATED USING IP-101 AND UP.

4. INLET PROTECTION SHALL REMAIN IN PLACE UNTIL ALL AREAS OF THE CONTRIBUTING WATERSHED ARE BROUGHT TO FINAL STABILIZATION.

ESTIMATED EROSION AND SEDIMENT CONTROL QUANTITIES

STRUCTURE	TYPE	DRAINAGE AREA	INLET PROTECTION (EX. STRUCTURE)	INLET PROTECTION (NEW STRUCTURE)	ROCK CHECK DAM	FILTER FABRIC DITCH CHECK	PERIMETER SILT FENCE	SEDIMENT BASINS AND DAMS	
								BASINS (CUT)	DAMS (FILL)
		(AC.)	(FT.)	(FT.)	(C.Y.)	(FT.)	(FT.)	(C.Y.)	(C.Y.)
D-100 *	EX. MANHOLE	0.00	0	0	0	80	307	0	0
D-101	CB-5A	0.64	0	32	0	0	0	143.48	5.68
D-102	CB 2-3	0.17	32	32	0	0	0	0	0
D-200 **	EX. MANHOLE	0.00	0	0	0	0	1,027	0	0
SUBTOTALS - THIS SHEET:			32	64	0	80	1,334	143.48	5.68

* - INCLUDES ALL ROADSIDE SEDIMENT AND EROSION CONTROLS ALONG U.S. 62 SOUTHBOUND BELOW STATION 94+00.
** - INCLUDES ALL ROADSIDE SEDIMENT AND EROSION CONTROLS ALONG U.S. 62 NORTHBOUND BELOW STATION 97+50.

TEMPORARY SEDIMENT TRAP CALCULATIONS

SEDIMENT TRAP STRUCTURE	LOCATION		TRIBUTARY AREA (A)	EDA TRIBUTARY TO BASIN (D)	DEWATERING VOL. = 134 CY * (A)	SEDIMENT STORAGE 37 CY * D	TOTAL BASIN VOLUME (Z + S)	PROPOSED SEDIMENT TRAP SIZING				
								WIDTH	LENGTH	DEPTH	VOLUME	VOLUME
	STATION	SIDE	(AC).	(AC).	(C.Y.)	(C.Y.)	(C.Y.)	(FT)	(FT)	(FT)	(CU. FT.)	(CU. YD.)
ST-001	95+00	LT.	0.366	0.109	49.04	4.04	53.08	6.25	225	1.55	1,522	56.34

SOIL CODE	SOIL TYPE
CeB	CELINA SILT LOAM, 2 TO 6 PERCENT SLOPES
CrA	CROSBY SILT LOAM, 0 TO 2 PERCENT SLOPES
Ko	KOKOMO SILTY CLAY LOAM, 0 TO 2 PERCENT SLOPES
LeB	LEWISBURG-CROSBY LAND COMPLEX, 2 TO 6 PERCENT SLOPES
Ut	UDORTHENTS-URBAN LAND COMPLEX, GENTLY ROLLING

HORIZONTAL SCALE IN FEET
0 25 50 100

CALCULATED ECH
CHECKED BSB

PROJECT SITE PLAN
STATION 86+57.58 TO STATION 97+50

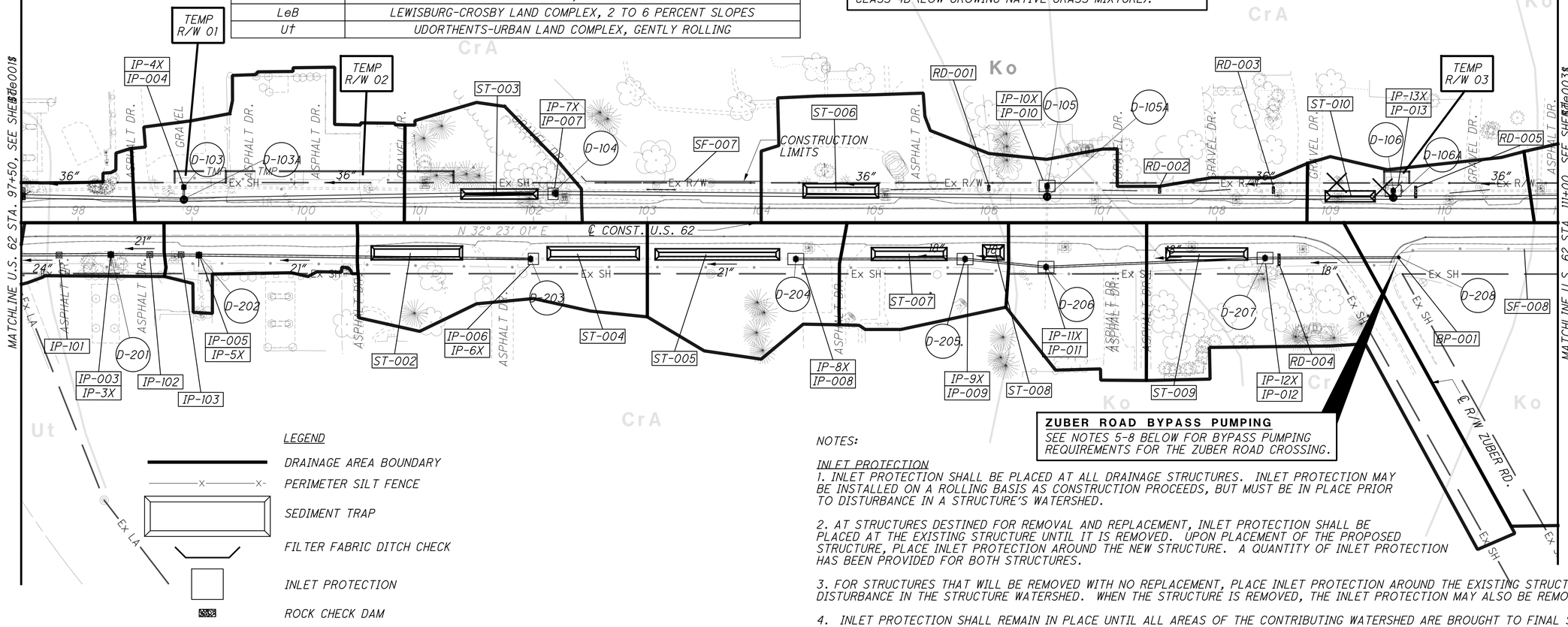
FRA-62-1.64

11
84

SOIL CODE	SOIL TYPE
CeB	CELINA SILT LOAM, 2 TO 6 PERCENT SLOPES
CrA	CROSBY SILT LOAM, 0 TO 2 PERCENT SLOPES
Ko	KOKOMO SILTY CLAY LOAM, 0 TO 2 PERCENT SLOPES
LeB	LEWISBURG-CROSBY LAND COMPLEX, 2 TO 6 PERCENT SLOPES
Ut	UDORTHENTS-URBAN LAND COMPLEX, GENTLY ROLLING

TEMPORARY RIGHT-OF-WAY RESTORATION

TO RESTORE THE GROUNDWATER RECHARGE POTENTIAL OF DISTURBED LAND IN TEMPORARY RIGHT-OF-WAY AREAS, DISK EARTH TO A DEPTH OF 12" AND SEED WITH ODOT CLASS 4B (LOW GROWING NATIVE GRASS MIXTURE).



ZUBER ROAD BYPASS PUMPING

SEE NOTES 5-8 BELOW FOR BYPASS PUMPING REQUIREMENTS FOR THE ZUBER ROAD CROSSING.

LEGEND

- DRAINAGE AREA BOUNDARY
- PERIMETER SILT FENCE
- SEDIMENT TRAP
- FILTER FABRIC DITCH CHECK
- INLET PROTECTION
- ROCK CHECK DAM

NOTES:

INLET PROTECTION

1. INLET PROTECTION SHALL BE PLACED AT ALL DRAINAGE STRUCTURES. INLET PROTECTION MAY BE INSTALLED ON A ROLLING BASIS AS CONSTRUCTION PROCEEDS, BUT MUST BE IN PLACE PRIOR TO DISTURBANCE IN A STRUCTURE'S WATERSHED.

2. AT STRUCTURES DESTINED FOR REMOVAL AND REPLACEMENT, INLET PROTECTION SHALL BE PLACED AT THE EXISTING STRUCTURE UNTIL IT IS REMOVED. UPON PLACEMENT OF THE PROPOSED STRUCTURE, PLACE INLET PROTECTION AROUND THE NEW STRUCTURE. A QUANTITY OF INLET PROTECTION HAS BEEN PROVIDED FOR BOTH STRUCTURES.

3. FOR STRUCTURES THAT WILL BE REMOVED WITH NO REPLACEMENT, PLACE INLET PROTECTION AROUND THE EXISTING STRUCTURE UPON DISTURBANCE IN THE STRUCTURE WATERSHED. WHEN THE STRUCTURE IS REMOVED, THE INLET PROTECTION MAY ALSO BE REMOVED.

4. INLET PROTECTION SHALL REMAIN IN PLACE UNTIL ALL AREAS OF THE CONTRIBUTING WATERSHED ARE BROUGHT TO FINAL STABILIZATION.

ZUBER ROAD BYPASS PUMPING

5. BEFORE REPLACING D-208 OR THE PIPE UNDER ZUBER ROAD, THE CONTRACTOR SHALL INSTALL BYPASS PUMPING FOR THE DRAINAGE AREA NORTHEAST OF U.S. 62 AND ZUBER ROAD. THE BYPASS PUMPING SHALL BE CAPABLE OF PUMPING A PEAK FLOW OF 5.0 CFS (EQUIVALENT TO 10-YEAR PEAK FLOW).

6. SILT FENCE ALONG U.S. 62 BETWEEN STATIONS 110+50 RT. AND 115+50 RT. SHALL BE INSTALLED PRIOR TO DISTURBING THE EXISTING AREA AROUND D-208. MAINTAIN ALL SILT FENCE ON U.S. 62 BETWEEN STATIONS 110+50 RT. AND 115+50 RT. UNTIL BYPASS PUMPING IS COMPLETE AND AREA STABILIZED.

7. BYPASS PUMP TO ANY NEARBY EXISTING STRUCTURE STILL IN SERVICE OR TO A PROPOSED STRUCTURE ALREADY IN SERVICE. MAINTAIN BYPASS PUMPING UNTIL THE PROPOSED D-208 HEADWALL AND THE PIPE FROM D-208 TO D-207 ARE BOTH PLACED AND IN SERVICE.

8. PRIOR TO REMOVING THE BYPASS PUMPING, STABILIZE THE AFFECTED DISTURBED AREA WITH SEED AND MULCH.

ESTIMATED EROSION AND SEDIMENT CONTROL QUANTITIES

STRUCTURE	TYPE	DRAINAGE AREA	INLET PROTECTION (EX. STRUCTURE)	INLET PROTECTION (NEW STRUCTURE)	ROCK CHECK DAM	FILTER FABRIC DITCH CHECK	PERIMETER SILT FENCE	SEDIMENT BASINS AND DAMS	
								BASINS (CUT)	DAMS (FILL)
		(AC.)	(FT.)	(FT.)	(C.Y.)	(FT.)	(FT.)	(C.Y.)	(C.Y.)
D-103	CB 2-2	0.57	32	32	0	0	0	0	0
D-103A	MH NO. 3	0.00	32	32	0	0	0	0	0
D-104 **	CB-5A	0.30	32	32	0	0	154	13.50	9.34
D-105	CB-5	0.87	32	32	2.28	0	0	19.21	4.66
D-105A	MH NO. 3	0.00	0	0	0	0	0	0	0
D-106	CB-5	0.24	32	32	1.71	0	0	11.49	11.12
D-106A	MH NO. 3	0.00	0	0	0	0	0	0	0
D-201	CB 2-4	0.14	96	32	0	0	0	0	0
D-202	CB 2-3	0.19	64	32	0	0	0	0	0
D-203	CB-5	0.19	32	32	0	0	0	51.57	14.35
D-204	CB-5	0.19	32	32	0	0	0	30.15	15.61
D-205	CB-5	0.14	32	32	0	0	0	37.77	2.24
D-206	CB-5	0.19	32	32	0	0	0	0	0
D-207	CB-5	0.19	32	32	0.81	0	0	39.44	2.40
D-208	HW-2.2	0.19	0	0	0	0	137 *	0	0
SUBTOTALS - THIS SHEET:			480	384	4.80	0	291	203.13	59.72

* - ITEM SPREAD OVER TWO SHEETS. THIS QUANTITY ONLY FOR THE ITEM ON THIS SHEET; REMAINING QUANTITY TABULATED ON OTHER SHEET.
** - INCLUDES SILT FENCE FOR SHEET FLOW RUNOFF BETWEEN D-104 AND D-105.

TEMPORARY SEDIMENT TRAP CALCULATIONS

SEDIMENT TRAP STRUCTURE	LOCATION		TRIBUTARY AREA (A)	EDA TRIBUTARY TO BASIN (D)	DEWATERING VOL. = 134 CY * (A)	SEDIMENT STORAGE 37 CY * D	TOTAL BASIN VOLUME (Z + S)	PROPOSED SEDIMENT TRAP SIZING				
								WIDTH	LENGTH	DEPTH	VOLUME	VOLUME
	STATION	SIDE	(AC).	(AC).	(C.Y.)	(C.Y.)	(C.Y.)	(FT)	(FT)	(FT)	(CU. FT.)	(CU. YD.)
ST-002	101+00	RT.	0.078	0.041	10.45	1.52	11.97	7.72	75	1.05	364	13.48
ST-003	101+50	LT.	0.057	0.028	7.64	1.04	8.68	2.50	60	1.40	271	10.03
ST-004	102+50	RT.	0.076	0.039	10.18	1.45	11.63	6.56	70	1.20	391	14.48
ST-005	103+50	RT.	0.100	0.051	13.40	1.89	15.29	4.07	103	1.25	467	17.29
ST-006	104+50	LT.	0.090	0.053	12.06	1.97	14.03	6.50	60	1.30	396	14.68
ST-007	105+50	RT.	0.074	0.028	9.92	1.04	10.96	5.67	60	1.30	350	12.95
ST-008	106+00	RT.	0.020	0.011	2.73	0.41	3.14	7.03	12	1.40	102	3.78
ST-009	108+00	RT.	0.071	0.030	9.57	1.12	10.69	4.59	65	1.40	369	13.66
ST-010	109+25	LT.	0.045	0.018	6.03	0.67	6.70	2.30	35	1.60	201	7.45

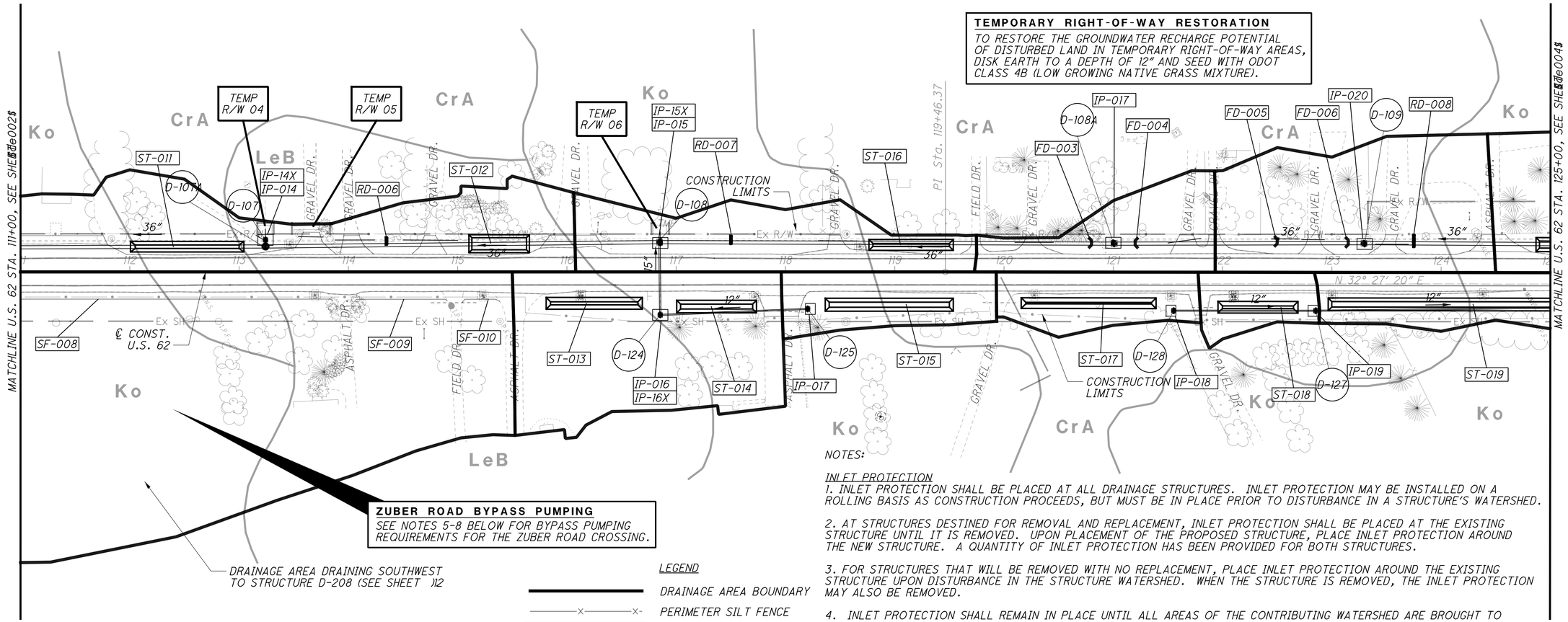
HORIZONTAL SCALE IN FEET: 0, 25, 50, 100

CALCULATED ECH CHECKED BSB

PROJECT SITE PLAN
STATION 97+50 TO STATION 111+00

FRA-62-1.64

12
84



TEMPORARY RIGHT-OF-WAY RESTORATION

TO RESTORE THE GROUNDWATER RECHARGE POTENTIAL OF DISTURBED LAND IN TEMPORARY RIGHT-OF-WAY AREAS, DISK EARTH TO A DEPTH OF 12" AND SEED WITH ODOT CLASS 4B (LOW GROWING NATIVE GRASS MIXTURE).

SOIL CODE	SOIL TYPE
CeB	CELINA SILT LOAM, 2 TO 6 PERCENT SLOPES
CrA	CROSBY SILT LOAM, 0 TO 2 PERCENT SLOPES
Ko	KOKOMO SILTY CLAY LOAM, 0 TO 2 PERCENT SLOPES
LeB	LEWISBURG-CROSBY LAND COMPLEX, 2 TO 6 PERCENT SLOPES
Ut	UDORTHENTS-URBAN LAND COMPLEX, GENTLY ROLLING

LEGEND

- DRAINAGE AREA BOUNDARY
- PERIMETER SILT FENCE
- SEDIMENT TRAP
- FILTER FABRIC DITCH CHECK
- INLET PROTECTION
- ROCK CHECK DAM

ESTIMATED EROSION AND SEDIMENT CONTROL QUANTITIES

STRUCTURE	TYPE	DRAINAGE AREA	INLET PROTECTION (EX. STRUCTURE)	INLET PROTECTION (NEW STRUCTURE)	ROCK CHECK DAM	FILTER FABRIC DITCH CHECK	PERIMETER SILT FENCE	SEDIMENT BASINS AND DAMS	
								BASINS (CUT)	DAMS (FILL)
		(AC.)	(FT.)	(FT.)	(C.Y.)	(FT.)	(FT.)	(C.Y.)	(C.Y.)
D-107	CB-5	0.83	32	32	1.49	0	0	58.51	24.61
D-107A	MH NO. 3	0.00	0	0	0	0	0	0	0
D-108	CB-5A	0.45	32	32	0.85	0	0	20.44	7.02
D-108A	CB-5A	0.29	0	32	0	80	0	0	0
D-109	CB-5A	0.67	0	32	1.98	80	0	0	0
D-124	CB-5	0.75	32	32	0	0	0	59.74	43.59
D-125	CB-5	0.23	0	32	0	0	0	42.64	5.41
D-127	CB-5	0.13	0	32	0	0	0	24.04	24.56
D-128	CB-5	0.21	0	32	0	0	0	16.45	13.42
D-208*	HW-2.2	2.88	0	0	0	0	308*	0	0
SUBTOTALS - THIS SHEET:			96	256	4.32	160	308	221.82	118.61

* - ITEM SPREAD OVER TWO SHEETS. THIS QUANTITY IS ONLY FOR THE ITEM ON THIS SHEET; REMAINING ITEM QUANTITY TABULATED ON OTHER SHEET.

NOTE: ST-019 IS TABULATED ON THE NEXT SHEET UNDER STRUCTURE D-126.

NOTES:

INLET PROTECTION

1. INLET PROTECTION SHALL BE PLACED AT ALL DRAINAGE STRUCTURES. INLET PROTECTION MAY BE INSTALLED ON A ROLLING BASIS AS CONSTRUCTION PROCEEDS, BUT MUST BE IN PLACE PRIOR TO DISTURBANCE IN A STRUCTURE'S WATERSHED.

2. AT STRUCTURES DESTINED FOR REMOVAL AND REPLACEMENT, INLET PROTECTION SHALL BE PLACED AT THE EXISTING STRUCTURE UNTIL IT IS REMOVED. UPON PLACEMENT OF THE PROPOSED STRUCTURE, PLACE INLET PROTECTION AROUND THE NEW STRUCTURE. A QUANTITY OF INLET PROTECTION HAS BEEN PROVIDED FOR BOTH STRUCTURES.

3. FOR STRUCTURES THAT WILL BE REMOVED WITH NO REPLACEMENT, PLACE INLET PROTECTION AROUND THE EXISTING STRUCTURE UPON DISTURBANCE IN THE STRUCTURE WATERSHED. WHEN THE STRUCTURE IS REMOVED, THE INLET PROTECTION MAY ALSO BE REMOVED.

4. INLET PROTECTION SHALL REMAIN IN PLACE UNTIL ALL AREAS OF THE CONTRIBUTING WATERSHED ARE BROUGHT TO FINAL STABILIZATION.

ZUBER ROAD BYPASS PUMPING

5. BEFORE REPLACING D-208 OR THE PIPE UNDER ZUBER ROAD, THE CONTRACTOR SHALL INSTALL BYPASS PUMPING FOR THE DRAINAGE AREA NORTHEAST OF U.S. 62 AND ZUBER ROAD. THE BYPASS PUMPING SHALL BE CAPABLE OF PUMPING A PEAK FLOW OF 5.0 CFS (EQUIVALENT TO 10-YEAR PEAK FLOW).

6. SILT FENCE ALONG U.S. 62 BETWEEN STATIONS 110+50 RT. AND 115+50 RT. SHALL BE INSTALLED PRIOR TO DISTURBING THE EXISTING AREA AROUND D-208. MAINTAIN ALL SILT FENCE ON U.S. 62 BETWEEN STATIONS 110+50 RT. AND 115+50 RT. UNTIL BYPASS PUMPING IS COMPLETE AND AREA STABILIZED.

7. BYPASS PUMP TO ANY NEARBY EXISTING STRUCTURE STILL IN SERVICE OR TO A PROPOSED STRUCTURE ALREADY IN SERVICE. MAINTAIN BYPASS PUMPING UNTIL THE PROPOSED D-208 HEADWALL AND THE PIPE FROM D-208 TO D-207 ARE BOTH PLACED AND IN SERVICE.

8. PRIOR TO REMOVING THE BYPASS PUMPING, STABILIZE THE AFFECTED DISTURBED AREA WITH SEED AND MULCH.

TEMPORARY SEDIMENT TRAP CALCULATIONS

SEDIMENT TRAP STRUCTURE	LOCATION		TRIBUTARY AREA (A)	EDA TRIBUTARY TO BASIN (D)	DEWATERING VOL. = 134 CY * (A)	SEDIMENT STORAGE 37 CY * D	TOTAL BASIN VOLUME (Z + S)	PROPOSED SEDIMENT TRAP SIZING				
								WIDTH	LENGTH	DEPTH	VOLUME	VOLUME
	STATION	SIDE	(AC).	(AC).	(C.Y.)	(C.Y.)	(C.Y.)	(FT)	(FT)	(FT)	(CU. FT.)	(CU. YD.)
ST-011	112+50	LT.	0.082	0.041	10.99	1.52	12.51	3.60	95	1.30	398	14.75
ST-012	115+50	LT.	0.076	0.029	10.18	1.08	11.26	11.85	50	1.05	358	13.25
ST-013	116+00	RT.	0.104	0.045	13.94	1.67	15.61	3.79	80	1.60	495	18.32
ST-014	117+50	RT.	0.094	0.045	12.60	1.67	14.27	5.04	70	1.45	162	17.12
ST-015	119+00	RT.	0.166	0.072	22.24	2.67	24.91	5.30	110	1.50	751	27.80
ST-016	119+00	LT.	0.078	0.037	10.45	1.38	11.83	3.55	70	1.40	389	14.40
ST-017	121+00	RT.	0.126	0.062	16.88	2.30	19.18	2.55	115	1.60	601	22.25
ST-018	122+50	RT.	0.087	0.040	11.66	1.49	13.15	3.84	65	1.55	406	15.03
ST-019	124+50	RT.	0.292	0.163	39.13	6.04	45.17	5.90	265	1.35	1,341	49.67
ST-020	125+50	LT.	0.106	0.050	14.20	1.86	16.06	7.25	75	1.30	454	16.82

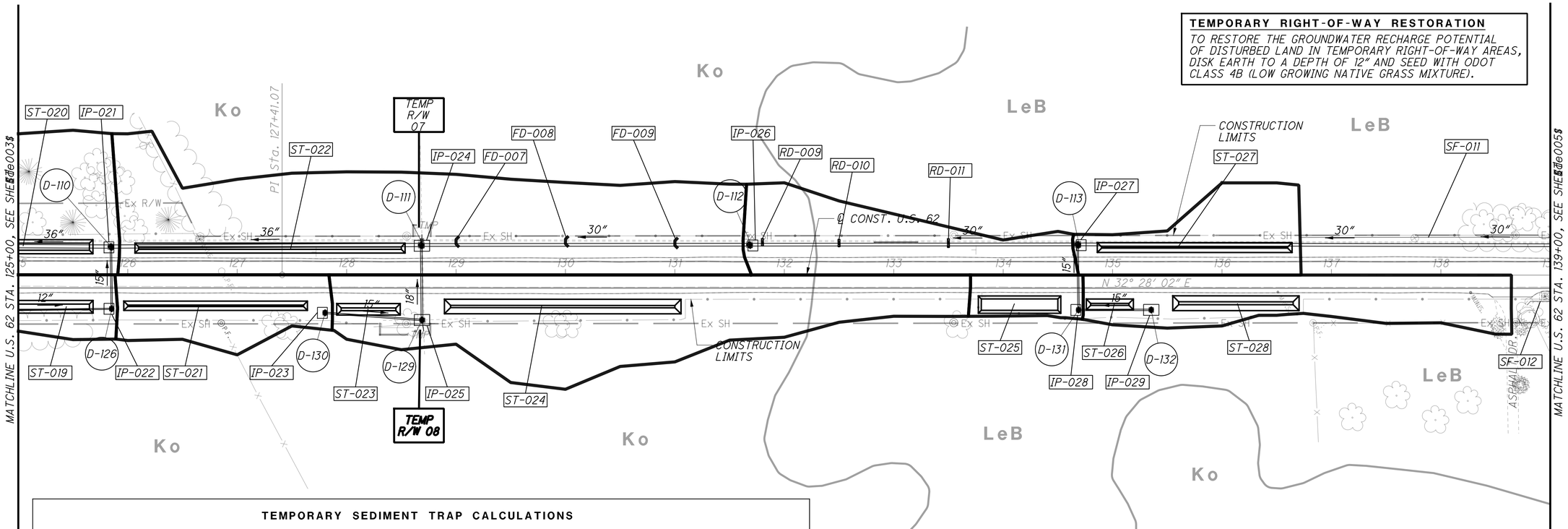
HORIZONTAL SCALE IN FEET: 0, 25, 50, 100

CALCULATED ECH CHECKED BSB

PROJECT SITE PLAN
STATION 111+00 TO STATION 125+00

FRA-62-1.64

13
84



TEMPORARY SEDIMENT TRAP CALCULATIONS

SEDIMENT TRAP STRUCTURE	LOCATION		TRIBUTARY AREA (A)	EDA TRIBUTARY TO BASIN (D)	DEWATERING VOL. = 134 CY * (A)	SEDIMENT STORAGE 37 CY * D	TOTAL BASIN VOLUME (Z + S)	PROPOSED SEDIMENT TRAP SIZING				
								WIDTH	LENGTH	DEPTH	VOLUME	VOLUME
	STATION	SIDE	(AC).	(AC).	(C.Y.)	(C.Y.)	(C.Y.)	(FT)	(FT)	(FT)	(CU. FT.)	(CU. YD.)
ST-021	127+00	RT.	0.120	0.081	16.08	3.00	19.08	2.10	161	1.40	567	21.00
ST-022	127+50	LT.	0.198	0.100	26.53	3.71	30.24	3.00	240	1.30	891	32.99
ST-023	128+25	RT.	0.060	0.036	8.04	1.34	9.38	3.69	50	1.50	324	12.01
ST-024	130+00	RT.	0.488	0.160	65.39	5.93	71.32	4.00	205	2.10	2,064	76.46
ST-025	134+00	RT.	0.073	0.040	9.78	1.49	11.27	11.21	70	1.00	428	15.85
ST-026	135+00	RT.	0.039	0.008	5.23	0.30	5.53	3.50	35	1.50	190	7.02
ST-027	136+00	LT.	0.149	0.076	19.97	2.82	22.79	2.20	170	1.50	714	26.46
ST-028	136+00	RT.	0.295	0.081	39.53	3.00	42.53	5.00	105	2.00	1,194	44.23

ESTIMATED EROSION AND SEDIMENT CONTROL QUANTITIES

STRUCTURE	TYPE	DRAINAGE AREA	INLET PROTECTION (EX. STRUCTURE)	INLET PROTECTION (NEW STRUCTURE)	ROCK CHECK DAM	FILTER FABRIC DITCH CHECK	PERIMETER SILT FENCE	SEDIMENT BASINS AND DAMS	
								BASINS (CUT)	DAMS (FILL)
		(AC.)	(FT.)	(FT.)	(C.Y.)	(FT.)	(FT.)	(C.Y.)	(C.Y.)
D-110	CB-5A	0.43	0	32	0	0	0	31.42	4.68
D-111	CB-5A	1.20	32	32	0	120	0	110.11	36.58
D-112	CB-5A	0.38	0	32	2.59	0	0	0	0
D-113 **	CB-5A	0.28	0	32	0	0	229 *	79.78	34.16
D-126	CB-5	0.35	0	32	0	0	0	89.60	9.94
D-129	CB-5	0.89	32	32	0	0	0	41.36	35.47
D-130	CB-5	0.27	0	32	0	0	0	157.08	66.77
D-131	CB-5	0.09	0	32	0	0	0	36.17	0
D-132 ***	CB-5	0.39	0	32	0	0	20 *	76.66	37.76
SUBTOTALS - THIS SHEET:			64	288	2.59	120	249	622.18	225.36

* - ITEM SPREAD OVER TWO SHEETS. THIS QUANTITY IS ONLY FOR THE ITEM ON THIS SHEET; REMAINING ITEM QUANTITY TABULATED ON OTHER SHEET.
** - INCLUDES PERIMETER FENCE FOR STATION 136+75-139+00 LT THAT SHEET FLOWS OFF R/W.
*** - INCLUDES PERIMETER FENCE FOR STATION 138+80-139+00 RT THAT SHEET FLOWS OFF R/W.

LEGEND

- DRAINAGE AREA BOUNDARY
- PERIMETER SILT FENCE
- SEDIMENT TRAP
- FILTER FABRIC DITCH CHECK
- INLET PROTECTION
- ROCK CHECK DAM

NOTES:

INLET PROTECTION

1. INLET PROTECTION SHALL BE PLACED AT ALL DRAINAGE STRUCTURES. INLET PROTECTION MAY BE INSTALLED ON A ROLLING BASIS AS CONSTRUCTION PROCEEDS, BUT MUST BE IN PLACE PRIOR TO DISTURBANCE IN A STRUCTURE'S WATERSHED.

2. AT STRUCTURES DESTINED FOR REMOVAL AND REPLACEMENT, INLET PROTECTION SHALL BE PLACED AT THE EXISTING STRUCTURE UNTIL IT IS REMOVED. UPON PLACEMENT OF THE PROPOSED STRUCTURE, PLACE INLET PROTECTION AROUND THE NEW STRUCTURE. A QUANTITY OF INLET PROTECTION HAS BEEN PROVIDED FOR BOTH STRUCTURES. INLET PROTECTION FOR THESE STRUCTURES CARRIES A DUAL DESIGNATION OF IP-01X AND IP-001 FOR USE ON THE OLD AND NEW STRUCTURES RESPECTIVELY.

3. FOR STRUCTURES THAT WILL BE REMOVED WITH NO REPLACEMENT, PLACE INLET PROTECTION AROUND THE EXISTING STRUCTURE UPON DISTURBANCE IN THE STRUCTURE WATERSHED. WHEN THE STRUCTURE IS REMOVED, THE INLET PROTECTION MAY ALSO BE REMOVED. INLET PROTECTION IN THESE CASES IS INDICATED USING IP-101 AND UP.

4. INLET PROTECTION SHALL REMAIN IN PLACE UNTIL ALL AREAS OF THE CONTRIBUTING WATERSHED ARE BROUGHT TO FINAL STABILIZATION.

SOIL CODE	SOIL TYPE
CeB	CELINA SILT LOAM, 2 TO 6 PERCENT SLOPES
CrA	CROSBY SILT LOAM, 0 TO 2 PERCENT SLOPES
Ko	KOKOMO SILTY CLAY LOAM, 0 TO 2 PERCENT SLOPES
LeB	LEWISBURG-CROSBY LAND COMPLEX, 2 TO 6 PERCENT SLOPES
Ut	UDORTHENTS-URBAN LAND COMPLEX, GENTLY ROLLING

HORIZONTAL SCALE IN FEET
0 25 50 100

CALCULATED ECH
CHECKED BSB

PROJECT SITE PLAN
STATION 125+00 TO STATION 139+00

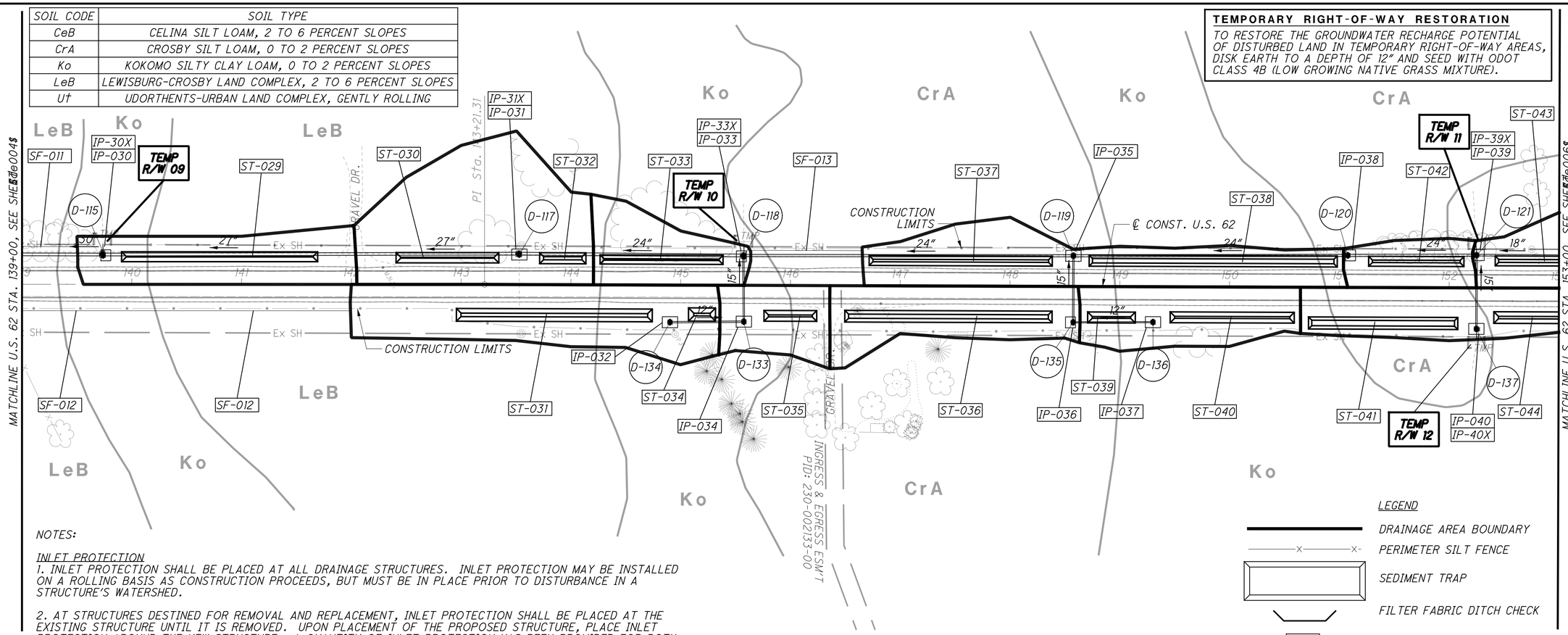
FRA-62-1.64

14
84

SOIL CODE	SOIL TYPE
CeB	CELINA SILT LOAM, 2 TO 6 PERCENT SLOPES
CrA	CROSBY SILT LOAM, 0 TO 2 PERCENT SLOPES
Ko	KOKOMO SILTY CLAY LOAM, 0 TO 2 PERCENT SLOPES
LeB	LEWISBURG-CROSBY LAND COMPLEX, 2 TO 6 PERCENT SLOPES
Ut	UDORTHENTS-URBAN LAND COMPLEX, GENTLY ROLLING

TEMPORARY RIGHT-OF-WAY RESTORATION

TO RESTORE THE GROUNDWATER RECHARGE POTENTIAL OF DISTURBED LAND IN TEMPORARY RIGHT-OF-WAY AREAS, DISK EARTH TO A DEPTH OF 12" AND SEED WITH ODOT CLASS 4B (LOW GROWING NATIVE GRASS MIXTURE).



NOTES:

INLET PROTECTION

1. INLET PROTECTION SHALL BE PLACED AT ALL DRAINAGE STRUCTURES. INLET PROTECTION MAY BE INSTALLED ON A ROLLING BASIS AS CONSTRUCTION PROCEEDS, BUT MUST BE IN PLACE PRIOR TO DISTURBANCE IN A STRUCTURE'S WATERSHED.

2. AT STRUCTURES DESTINED FOR REMOVAL AND REPLACEMENT, INLET PROTECTION SHALL BE PLACED AT THE EXISTING STRUCTURE UNTIL IT IS REMOVED. UPON PLACEMENT OF THE PROPOSED STRUCTURE, PLACE INLET PROTECTION AROUND THE NEW STRUCTURE. A QUANTITY OF INLET PROTECTION HAS BEEN PROVIDED FOR BOTH STRUCTURES. INLET PROTECTION FOR THESE STRUCTURES CARRIES A DUAL DESIGNATION OF IP-01X AND IP-001 FOR USE ON THE OLD AND NEW STRUCTURES RESPECTIVELY.

3. FOR STRUCTURES THAT WILL BE REMOVED WITH NO REPLACEMENT, PLACE INLET PROTECTION AROUND THE EXISTING STRUCTURE UPON DISTURBANCE IN THE STRUCTURE WATERSHED. WHEN THE STRUCTURE IS REMOVED, THE INLET PROTECTION MAY ALSO BE REMOVED. INLET PROTECTION IN THESE CASES IS INDICATED USING IP-101 AND UP.

4. INLET PROTECTION SHALL REMAIN IN PLACE UNTIL ALL AREAS OF THE CONTRIBUTING WATERSHED ARE BROUGHT TO FINAL STABILIZATION.

ESTIMATED EROSION AND SEDIMENT CONTROL QUANTITIES

STRUCTURE	TYPE	DRAINAGE AREA	INLET PROTECTION (EX. STRUCTURE)	INLET PROTECTION (NEW STRUCTURE)	ROCK CHECK DAM	FILTER FABRIC DITCH CHECK	PERIMETER SILT FENCE	SEDIMENT BASINS AND DAMS	
								BASINS (CUT)	DAMS (FILL)
		(AC.)	(FT.)	(FT.)	(C.Y.)	(FT.)	(FT.)	(C.Y.)	(C.Y.)
D-115 **	CB-5A	0.57	32	32	0	0	50 *	105.74	12.84
D-117	CB-5A	0.53	32	32	0	0	0	56.78	10.07
D-118	CB-5	0.18	32	32	0	0	0	36.15	19.77
D-119 ***	CB-5	0.42	0	32	0	0	102	119.94	85.08
D-120	CB-5	0.11	0	32	0	0	0	24.66	21.43
D-121	CB-5	0.20	32	32	0	0	0	47.05	22.76
D-133	CB-5	0.16	0	32	0	0	0	11.61	12.00
D-134 ****	CB-5	0.42	0	32	0	0	301 *	97.29	78.27
D-135	CB-5	0.27	0	32	0	0	0	67.02	42.86
D-136	CB-5	0.24	0	32	0	0	0	38.15	36.75
D-137	CB-5	0.35	32	32	0	0	0	102.91	41.32
SUBTOTALS - THIS SHEET:			160	352	0	0	453	707.30	383.15

* - ITEM SPREAD OVER TWO SHEETS. THIS QUANTITY IS FOR THE ITEM ON THIS SHEET; REMAINING ITEM QUANTITY ON OTHER SHEET.
** - INCLUDES PERIMETER FENCE FOR STATION 136+75-139+00 LT THAT SHEET FLOWS OFF R/W.
*** - INCLUDES PERIMETER FENCE FOR STATION 138+80-139+00 RT THAT SHEET FLOWS OFF R/W.

LEGEND

- DRAINAGE AREA BOUNDARY
- PERIMETER SILT FENCE
- SEDIMENT TRAP
- FILTER FABRIC DITCH CHECK
- INLET PROTECTION
- ROCK CHECK DAM

TEMPORARY SEDIMENT TRAP CALCULATIONS

SEDIMENT TRAP STRUCTURE	LOCATION		TRIBUTARY AREA (A)	EDA TRIBUTARY TO BASIN (D)	DEWATERING VOL. = 134 CY * (A)	SEDIMENT STORAGE 37 CY * D	TOTAL BASIN VOLUME (Z + S)	PROPOSED SEDIMENT TRAP SIZING				
								WIDTH	LENGTH	DEPTH	VOLUME	VOLUME
	STATION	SIDE	(AC.)	(AC.)	(C.Y.)	(C.Y.)	(C.Y.)	(FT)	(FT)	(FT)	(CU. FT.)	(CU. YD.)
ST-029	141+00	LT.	0.172	0.081	23.05	3.00	26.05	2.00	170	1.55	731	27.08
ST-030	143+00	LT.	0.098	0.049	13.13	1.82	14.95	2.16	85	1.55	437	16.19
ST-031	144+00	RT.	0.269	0.097	36.05	3.60	39.65	4.17	170	1.70	1,121	41.50
ST-032	144+00	LT.	0.039	0.020	5.23	0.75	5.98	3.65	35	1.40	198	7.33
ST-033	145+00	LT.	0.086	0.043	11.52	1.60	13.12	2.14	105	1.35	373	13.82
ST-034	145+00	RT.	0.026	0.014	3.48	0.52	4.00	4.25	15	1.80	126	4.67
ST-035	146+00	RT.	0.052	0.025	6.97	0.93	7.90	3.00	40	1.50	228	8.45
ST-036	147+50	RT.	0.173	0.088	23.18	3.26	26.44	4.58	182	1.40	903	33.45
ST-037	147+50	LT.	0.125	0.063	16.75	2.34	19.09	3.00	160	1.35	642	23.77
ST-038	150+00	LT.	0.176	0.090	23.58	3.34	26.92	4.84	220	1.20	797	29.51
ST-039	149+00	RT.	0.045	0.024	6.03	0.89	6.92	2.55	35	1.60	221	8.19
ST-040	150+00	RT.	0.101	0.055	13.53	2.04	15.57	3.12	105	1.50	513	18.99
ST-041	151+50	RT.	0.140	0.083	18.76	3.08	21.84	5.60	135	1.20	662	24.50
ST-042	151+50	LT.	0.073	0.038	9.78	1.41	11.19	3.00	80	1.30	348	12.90
ST-043	152+50	LT.	0.092	0.051	12.33	1.89	14.22	3.32	115	1.25	415	15.38
ST-044	152+50	RT.	0.147	0.070	19.70	2.60	22.30	3.39	145	1.60	892	33.04

HORIZONTAL SCALE IN FEET
0 25 50 100

CALCULATED ECH CHECKED BSB

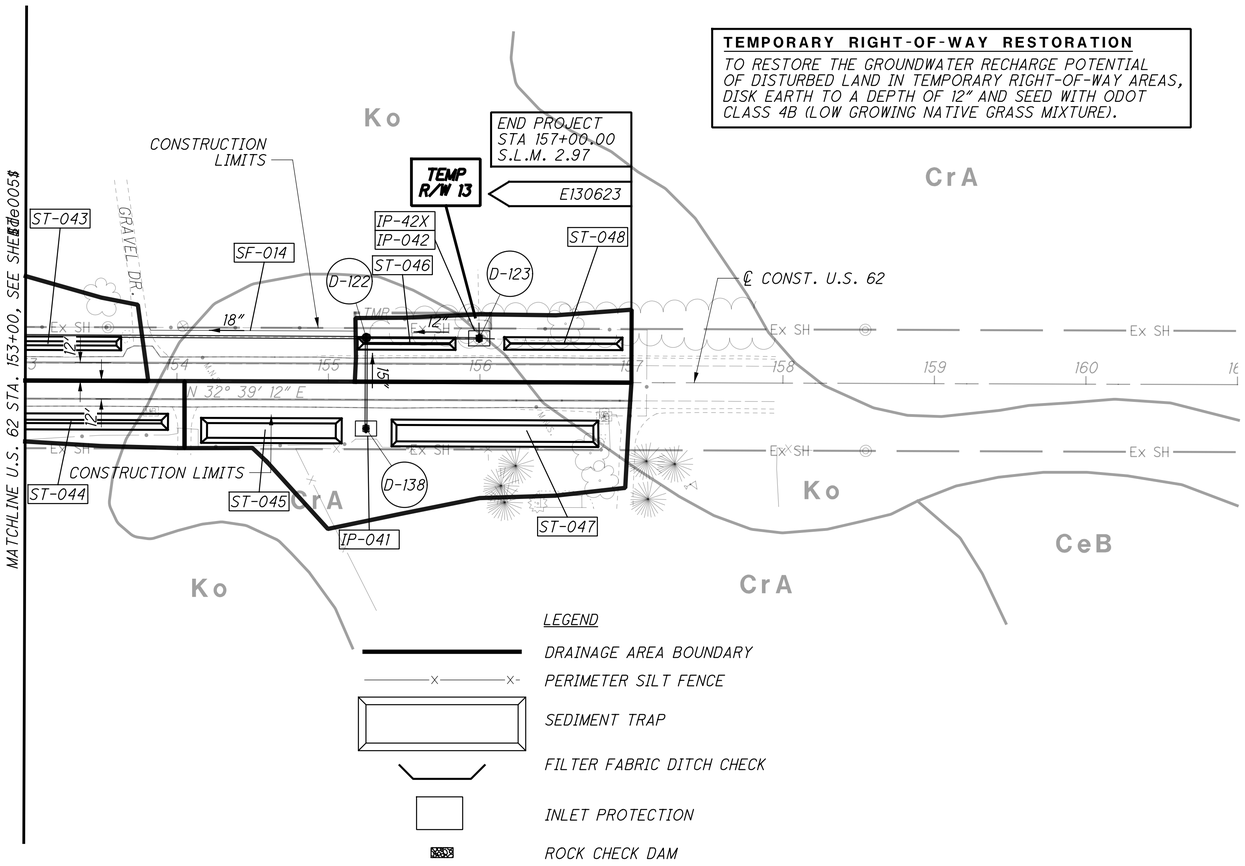
PROJECT SITE PLAN
STATION 139+00 TO STATION 153+00

FRA-62-1.64

15
84

TEMPORARY RIGHT-OF-WAY RESTORATION

TO RESTORE THE GROUNDWATER RECHARGE POTENTIAL OF DISTURBED LAND IN TEMPORARY RIGHT-OF-WAY AREAS, DISK EARTH TO A DEPTH OF 12" AND SEED WITH ODOT CLASS 4B (LOW GROWING NATIVE GRASS MIXTURE).



LEGEND

- DRAINAGE AREA BOUNDARY
- PERIMETER SILT FENCE
- SEDIMENT TRAP
- FILTER FABRIC DITCH CHECK
- INLET PROTECTION
- ROCK CHECK DAM

NOTES:

INLET PROTECTION

1. INLET PROTECTION SHALL BE PLACED AT ALL DRAINAGE STRUCTURES. INLET PROTECTION MAY BE INSTALLED ON A ROLLING BASIS AS CONSTRUCTION PROCEEDS, BUT MUST BE IN PLACE PRIOR TO DISTURBANCE IN A STRUCTURE'S WATERSHED.

2. AT STRUCTURES DESTINED FOR REMOVAL AND REPLACEMENT, INLET PROTECTION SHALL BE PLACED AT THE EXISTING STRUCTURE UNTIL IT IS REMOVED. UPON PLACEMENT OF THE PROPOSED STRUCTURE, PLACE INLET PROTECTION AROUND THE NEW STRUCTURE. A QUANTITY OF INLET PROTECTION HAS BEEN PROVIDED FOR BOTH STRUCTURES. INLET PROTECTION FOR THESE STRUCTURES CARRIES A DUAL DESIGNATION OF IP-01X AND IP-001 FOR USE ON THE OLD AND NEW STRUCTURES RESPECTIVELY.

3. FOR STRUCTURES THAT WILL BE REMOVED WITH NO REPLACEMENT, PLACE INLET PROTECTION AROUND THE EXISTING STRUCTURE UPON DISTURBANCE IN THE STRUCTURE WATERSHED. WHEN THE STRUCTURE IS REMOVED, THE INLET PROTECTION MAY ALSO BE REMOVED. INLET PROTECTION IN THESE CASES IS INDICATED USING IP-101 AND UP.

4. INLET PROTECTION SHALL REMAIN IN PLACE UNTIL ALL AREAS OF THE CONTRIBUTING WATERSHED ARE BROUGHT TO FINAL STABILIZATION.

TEMPORARY SEDIMENT TRAP CALCULATIONS

SEDIMENT TRAP STRUCTURE	LOCATION		TRIBUTARY AREA (A)	EDA TRIBUTARY TO BASIN (D)	DEWATERING VOL. = 134 CY * (A)	SEDIMENT STORAGE 37 CY * D	TOTAL BASIN VOLUME (Z + S)	PROPOSED SEDIMENT TRAP SIZING				
								WIDTH	LENGTH	DEPTH	VOLUME	VOLUME
	STATION	SIDE	(AC).	(AC).	(C.Y.)	(C.Y.)	(C.Y.)	(FT)	(FT)	(FT)	(CU. FT.)	(CU. YD.)
ST-045	154+50	RT.	0.149	0.062	19.97	2.30	22.27	10.50	85	1.40	823	30.48
ST-046	155+50	LT.	0.049	0.024	6.57	0.89	7.46	1.87	57	1.35	205	7.60
ST-047	156+00	RT.	0.278	0.097	37.25	3.60	40.85	11.61	130	1.35	1,185	43.88
ST-048	156+50	LT.	0.067	0.038	8.98	1.41	10.39	1.66	75	1.40	299	11.06

ESTIMATED EROSION AND SEDIMENT CONTROL QUANTITIES

STRUCTURE	TYPE	DRAINAGE AREA	INLET PROTECTION (EX. STRUCTURE)	INLET PROTECTION (NEW STRUCTURE)	ROCK CHECK DAM	FILTER FABRIC DITCH CHECK	PERIMETER SILT FENCE	SEDIMENT BASINS AND DAMS	
								BASINS (CUT)	DAMS (FILL)
		(AC.)	(FT.)	(FT.)	(C.Y.)	(FT.)	(FT.)	(C.Y.)	(C.Y.)
D-122 *	MH NO. 3	0.00	0	0	0	0	136	0	0
D-123	CB-5	0.19	32	32	0	0	0	40.35	6.30
D-138	CB-5	0.49	0	32	0	0	0	195.02	0
SUBTOTALS - THIS SHEET:			32	64	0	0	136	235.37	6.30

* - INCLUDES PERIMETER FENCE FOR STATION 145+75-146+70 LT THAT SHEET FLOWS OFF R/W.

SOIL CODE	SOIL TYPE
CeB	CELINA SILT LOAM, 2 TO 6 PERCENT SLOPES
CrA	CROSBY SILT LOAM, 0 TO 2 PERCENT SLOPES
Ko	KOKOMO SILTY CLAY LOAM, 0 TO 2 PERCENT SLOPES
LeB	LEWISBURG-CROSBY LAND COMPLEX, 2 TO 6 PERCENT SLOPES
Ut	UDORTHENTS-URBAN LAND COMPLEX, GENTLY ROLLING

HORIZONTAL SCALE IN FEET
0 25 50 100

CALCULATED ECH
CHECKED BSB

PROJECT SITE PLAN
STATION 153+00 TO STATION 157+00

FRA-62-1.64

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ITEM 832 STORM WATER POLLUTION PREVENTION PLAN, AS PER PLAN

ALL REFERENCES TO THE OHIO ENVIRONMENTAL PROTECTION AGENCY (OEPA) NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) CONSTRUCTION EFFLUENT GUIDELINES PERMIT NO. OHC00004 IN SUPPLEMENTAL SPECIFICATION 832 AND APPENDIX E WILL BE REPLACED WITH THE OEPA GENERAL NPDES PERMIT NO OHCD0002, AUTHORIZATION FOR STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY LOCATED WITHIN THE BIG DARBY CREEK WATERSHED (BIG DARBY PERMIT).

THE CONTRACTOR NEEDS TO FULLY UNDERSTAND ALL REQUIREMENTS OF THE BIG DARBY PERMIT BEFORE BEGINNING ANY WORK. FOR ANY DISCREPANCIES BETWEEN SUPPLEMENTAL SPECIFICATION 832 AND THIS PLAN NOTE, RESOLUTION SHOULD BE BASED ON THE BIG DARBY PERMIT.

THE REQUIREMENTS OF SS 832 ARE REQUIRED TO BE MET. IN ADDITION, THE CONTRACTOR SHOULD NOTE THE FOLLOWING REQUIRED ITEMS REGARDING THE IMPLEMENTATION OF SS832 AND THE BIG DARBY PERMIT THAT ARE NOTED BELOW:

SECTION 832.04 REQUIREMENTS:

POST-CONSTRUCTION CONTROLS AND MITIGATION FOR RIPARIAN SETBACK AND GROUNDWATER RECHARGE DESCRIBED IN THE BIG DARBY PERMIT ARE NOT REQUIRED FOR THIS PROJECT. CONSTRUCTION REQUIREMENTS AND COMPENSATION FOR POST-CONSTRUCTION CONTROLS AND MITIGATION, IF ANY, FOR RIPARIAN SETBACK AND GROUNDWATER RECHARGE ARE DETAILED IN THE PROJECT PLANS.

SECTION 832.05 LOCATE AND FURNISH BMP.

H. SEDIMENT BASINS AND DAMS

CONSTRUCT BASINS TO RETAIN 134 CUBIC YARDS (102 M3) OF WATER FOR EVERT ACRE (0.4 ha) OF DRAINAGE AREA. SAMPLE AND TEST EFFLUENT ACCORDING TO PART III.G.2.h.ii OF THE BIG DARBY PERMIT.

LOCATIONS FOR SEDIMENT BASINS ARE PROVIDED IN THE PLANS. REVISED SEDIMENT BASIN LOCATIONS DUE TO CONSTRUCTION ISSUES MUST HAVE PRIOR DISTRICT APPROVAL.

SECTION 832.09 STORM WATER POLLUTION PREVENTION PLAN (SWPPP)

THE LOCATION OF THE RIPARIAN SETBACKS AND SEDIMENT BASINS AS SHOWN IN THE PLANS MUST BE INCORPORATED INTO THE SWPPP. THE CONTRACTOR CANNOT AMEND THE LOCATIONS OF THE RIPARIAN SETBACKS. REVISED SEDIMENT BASIN LOCATIONS DUE TO CONSTRUCTION ISSUES MUST HAVE PRIOR DISTRICT APPROVAL.

ON THE SWPPP, FOR EACH SEDIMENT BASIN OR DAM, PROVIDE PROVIDE THE SETTLING VOLUME, CONTRIBUTING DRAINAGE AREA, AND DESIGNATE EACH WITH A UNIQUE THREE DIGIT NUMBER.

SECTION 823.12 COMPENSATION

ALL WORK CONSISTING OF LOCATING, FURNISHING, INSTALLING, SAMPLING, TESTING, AND MAINTAINING TEMPORARY SEDIMENT AND EROSION CONTROL BEST MANAGEMENT PRACTICES FOR EARTH DISTURBING ACTIVITY AREAS AND DEVELOPING A STORM WATER POLLUTION PREVENTION PLAN AND CO-PERMITTEE FORM SHALL MEET SS832 AND THE BIG DARBY PERMIT.

IN ADDITION TO WORK DESCRIBED, ALL TESTING AND REPORTING ASSOCIATED WITH THE ROUTINE INSPECTION OF THE SEDIMENT TRAPS, DAMS, AND OUTFALLS SHALL ALSO BE INCLUDED.

ALL WORK IS TO BE PAID UNDER:

ITEM 832 STORM WATER POLLUTION PREVENTION PLAN, AS PER PLAN LUMP

SECTION 832.13 METHOD OF MEASUREMENT

THE DEPARTMENT WILL MEASURE THE SWPPP, AS PER PLAN AS A LUMP SUM ITEM.

SECTION 832.14 BASIS OF PAYMENT

THE DEPARTMENT WILL PAY THE CONTRACT LUMP SUM BID FOR SWPPP, AS PER PLAN.

ESTIMATED EROSION AND SEDIMENT CONTROL QUANTITIES

SHEET	BEGIN STATION	END STATION	INLET PROTECTION (EX. STRUCTURE) (FT.)	INLET PROTECTION (NEW STRUCTURE) (FT.)	ROCK CHECK DAM (C.Y.)	FILTER FABRIC DITCH CHECK (FT.)	PERIMETER SILT FENCE (FT.)	SEDIMENT BASINS AND DAMS BASINS (CUT) (C.Y.)	SEDIMENT BASINS AND DAMS DAMS (FILL) (C.Y.)
1	86+57.58	97+50	32	64	0	80	1,334	143.48	5.68
2	97+50	111+00	480	384	4.80	0	291	203.13	59.72
3	111+00	125+00	96	256	4.32	160	308	221.82	118.61
4	125+00	139+00	64	288	2.59	120	249	622.18	225.36
5	139+00	153+00	160	352	0	0	453	707.30	383.15
6	153+00	157+00	32	64	0	0	136	235.37	6.30
TOTAL EROSION AND SEDIMENT CONTROL QUANTITIES:			864	1,408	11.71	360	2,771	2,133.28	798.82

SUMMARY OF TEMPORARY EASEMENT AREAS

TEMP. EASEMENT NUMBER	NEAREST STRUCTURE	EXISTING COVER (AC.) GRASS	EXISTING COVER (AC.) IMPERVIOUS	PROPOSED COVER (AC.) GRASS	PROPOSED COVER (AC.) IMPERVIOUS	BACKFILL TYPE	PURPOSE OF EASEMENT
1	103	0.010	0.000	0.010	0.000	EMBANKMENT, 703.16A-C	SUFFICIENT WORK LIMITS
2	103	0.032	0.013	0.032	0.013	EMBANKMENT, 703.16A-C	SUFFICIENT WORK LIMITS
3	106	0.005	0.000	0.005	0.000	EMBANKMENT, 703.16A-C	CONNECT EXISTING PIPE
4	107	0.003	0.000	0.003	0.000	EMBANKMENT, 703.16A-C	CONNECT EXISTING PIPE
5	107	0.048	0.031	0.048	0.031	EMBANKMENT, 703.16A-C	WORK AREA FOR DRIVE CULVERT
6	108	0.004	0.000	0.004	0.000	EMBANKMENT, 703.16A-C	CONNECT EXISTING PIPE
7	111	0.004	0.000	0.004	0.000	EMBANKMENT, 703.16A-C	CONNECT EXISTING PIPE
8	129	0.011	0.000	0.011	0.000	EMBANKMENT, 703.16A-C	CONNECT EXISTING PIPE
9	115	0.004	0.000	0.004	0.000	EMBANKMENT, 703.16A-C	CONNECT EXISTING PIPE
10	118	0.004	0.000	0.004	0.000	EMBANKMENT, 703.16A-C	CONNECT EXISTING PIPE
11	121	0.003	0.000	0.003	0.000	EMBANKMENT, 703.16A-C	CONNECT EXISTING PIPE
12	137	0.003	0.000	0.003	0.000	EMBANKMENT, 703.16A-C	CONNECT EXISTING PIPE
13	123	0.021	0.000	0.021	0.000	EMBANKMENT, 703.16A-C	CONNECT EXISTING PIPE
TOTAL AREAS:		0.152	0.044	0.152	0.044		

EXISTING LAND USES AND SITE DESCRIPTION

PROJECT AREA: RURAL ROADWAY

SURROUNDING AREA: RURAL RESIDENTIAL/AGRICULTURAL
COMMERCIAL NEAR I-71 INTERCHANGE

PROPOSED CONSTRUCTION: INSTALLATION OF NEW STORM SEWER AND PLANING AND OVERLAY OF EXISTING PAVEMENT.

TEMPORARY RIGHT-OF-WAY RESTORATION

TO RESTORE THE GROUNDWATER RECHARGE POTENTIAL OF DISTURBED LAND IN TEMPORARY RIGHT-OF-WAY AREAS, DISK EARTH TO A DEPTH OF 12" AND SEED WITH ODOT CLASS 4B (LOW GROWING NATIVE GRASS MIXTURE).

PROJECT DATA

TOTAL AREA (RIGHT-OF-WAY) *	13.47 AC.
PROJECT EARTH DISTURBED AREA (FIGURE 1112-1(A))	4.69 AC.
ESTIMATED CONTRACTOR EARTH DISTURBED AREA (FIGURE 1112-1(K))	0.25 AC.
NOTICE OF INTENT EARTH DISTURBED AREA (FIGURE 1112-1(M))	4.94 AC.
RUNOFF COEFFICIENT FOR PRE-CONSTRUCTION SITE	0.70
RUNOFF COEFFICIENT FOR POST-CONSTRUCTION SITE	0.71
TOTAL IMPERVIOUS AREA (PRE-CONSTRUCTION)	6.63 AC.
TOTAL IMPERVIOUS AREA (POST-CONSTRUCTION)	6.93 AC.

SOIL MAP REFERENCE	FRANKLIN COUNTY SOIL MAP (WEB SOIL SURVEY)
IMMEDIATE RECEIVING WATERS	BIG DARBY CREEK
SUBSEQUENT RECEIVING WATERS	SCIOTO RIVER
LATITUDE	N 39° 49′ 30″
LONGITUDE	W 83° 08′ 20″
USGS MAP REFERENCE	HARRISBURG QUADRANGLE

* TOTAL RIGHT-OF-WAY AREA DOES NOT INCLUDE TEMPORARY EASEMENTS

ZUBER ROAD BYPASS PUMPING

IN ORDER TO INSTALL THE PIPE RUN BETWEEN D-208 AND D-207 UNDER ZUBER ROAD, BYPASS PUMPING WILL BE REQUIRED IN ORDER TO AVOID THE CONSTRUCTION OF A SIZABLE SEDIMENT TRAP. THE PROPOSED EROSION AND SEDIMENT CONTROL SCHEME REQUIRES THE INSTALLATION OF A SILT FENCE ALONG U.S. 62 AND INSTALLATION OF BYPASS PUMPING TO CONVEY CLEAN STORMWATER TO A POINT DOWNSTREAM OF D-208. THE FOLLOWING NOTES APPLY:

1. BEFORE REPLACING D-208 OR THE PIPE UNDER ZUBER ROAD, THE CONTRACTOR SHALL INSTALL BYPASS PUMPING FOR THE DRAINAGE AREA NORTHEAST OF U.S. 62 AND ZUBER ROAD. THE BYPASS PUMPING SHALL BE CAPABLE OF PUMPING A PEAK FLOW OF 5.0 CFS (EQUIVALENT TO 10-YEAR PEAK FLOW).

2. SILT FENCE ALONG U.S. 62 BETWEEN STATIONS 110+50 RT. AND 115+50 RT. SHALL BE INSTALLED PRIOR TO DISTURBING THE EXISTING AREA AROUND D-208. MAINTAIN ALL SILT FENCE ON U.S. 62 BETWEEN STATIONS 110+50 RT. AND 115+50 RT. UNTIL BYPASS PUMPING IS COMPLETE AND AREA STABILIZED.

3. BYPASS PUMP TO ANY NEARBY EXISTING STRUCTURE STILL IN SERVICE OR TO A PROPOSED STRUCTURE ALREADY IN SERVICE. MAINTAIN BYPASS PUMPING UNTIL THE PROPOSED D-208 HEADWALL AND THE PIPE FROM D-208 TO D-207 ARE BOTH PLACED AND IN SERVICE.

4. PRIOR TO REMOVING THE BYPASS PUMPING, STABILIZE THE AFFECTED DISTURBED AREA WITH SEED AND MULCH.

CALCULATED ECH CHECKED BSB

PROJECT SITE PLAN
GENERAL NOTES AND DETAILS

FRA-62-1.64

SEDIMENT TRAP SIZE AND CAPACITY INFORMATION

TRAP ID	BASELINE	STATION	SIDE	DRAINAGE AREA TO TRAP (AC.)	TOP FT.	PRINCIPAL SPILLWAY CREST FT.	SEDIMENT STORAGE TOP FT.	TRAP BOTTOM FT.	DEPTH PER RW&LD MANUAL FT.	TRAP LENGTH FT.	AVG. TRAP WIDTH FT.	WEIR LENGTH FT.	DESIGN VOLUME C.Y.	SEDIMENT STORAGE VOLUME C.Y.	DEWATERING VOLUME C.Y.	SUBAREA C VALUE --	INTENSITY IN./HR.	AREA AC.	10-YEAR FLOW C.F./S	FLOW DEPTH OVER WEIR FT.	FREEBOARD WITH TOP FT.	NEAR LOW EDGE ELEVATION FT.	NEAR LOW EDGE CLEARANCE FT.
ST-001	U.S. 62	94+15-96+40	LT.	0.366	874.35	873.55	872.80	872.70	1.55	225	8.95	4	56.34	4.04	49.04	0.75	5.33	0.366	1.47	0.27	0.53	875.32	1.50
ST-002	U.S. 62	100+50-101+75	RT.	0.078	876.55	875.95	875.50	875.40	1.05	75	9.53	4	13.48	1.52	10.45	0.81	5.33	0.078	0.34	0.10	0.50	877.34	1.29
ST-003	U.S. 62	100+85-102+10	LT.	0.057	876.50	875.90	875.10	874.90	1.40	60	5.12	4	10.03	1.04	7.64	0.80	5.33	0.057	0.25	0.09	0.51	877.65	1.66
ST-004	U.S. 62	101+75-103+00	RT.	0.076	876.50	875.90	875.30	875.20	1.20	70	8.77	4	14.48	1.45	10.18	0.80	5.33	0.076	0.33	0.10	0.50	877.77	1.77
ST-005	U.S. 62	103+00-104+70	RT.	0.100	876.45	875.80	872.80	875.20	1.25	103	6.77	4	17.29	1.89	13.40	0.80	5.33	0.100	0.43	0.12	0.53	877.88	1.96
ST-006	U.S. 62	104+00-106+50	LT.	0.090	876.40	875.75	875.10	874.90	1.30	60	9.26	4	14.68	1.97	12.06	0.78	5.33	0.090	0.38	0.11	0.54	877.68	1.82
ST-007	U.S. 62	104+70-105+80	RT.	0.074	876.50	875.90	875.20	875.10	1.30	60	8.08	4	12.95	1.04	9.92	0.81	5.33	0.074	0.32	0.10	0.50	877.84	1.84
ST-008	U.S. 62	105+80-106+15	RT.	0.020	876.60	876.00	875.20	875.05	1.40	12	9.85	4	3.78	0.41	2.73	0.79	5.33	0.020	0.09	0.05	0.55	877.75	1.70
ST-009	U.S. 62	107+30-108+40	RT.	0.071	876.60	876.00	875.20	875.10	1.40	65	7.20	4	13.66	1.12	9.57	0.82	5.33	0.071	0.32	0.10	0.50	877.80	1.70
ST-010	U.S. 62	108+80-109+57	LT.	0.045	876.40	875.80	874.80	874.60	1.60	60	5.11	4	7.45	0.67	6.03	0.82	5.33	0.045	0.20	0.09	0.53	877.65	1.78
ST-011	U.S. 62	110+80-113+25	LT.	0.082	877.60	876.90	876.30	876.10	1.30	60	6.43	4	14.75	1.52	10.99	0.80	5.33	0.082	0.35	0.11	0.59	878.77	1.76
ST-012	U.S. 62	113+25-116+10	LT.	0.076	878.95	878.35	877.90	877.60	1.05	35	13.75	4	13.25	1.08	10.18	0.81	5.33	0.076	0.34	0.07	0.50	879.55	1.10
ST-013	U.S. 62	115+85-116+65	RT.	0.104	877.70	877.00	876.10	875.95	1.60	80	6.79	4	18.32	1.67	13.94	0.81	5.33	0.104	0.45	0.13	0.57	879.80	2.67
ST-014	U.S. 62	117+00-117+70	RT.	0.094	877.55	876.90	876.10	875.95	1.45	70	7.94	4	17.12	1.67	12.60	0.81	5.33	0.094	0.41	0.12	0.53	879.96	2.94
ST-015	U.S. 62	118+40-119+50	RT.	0.166	878.10	877.40	876.60	876.45	1.50	110	8.27	4	27.80	2.67	22.24	0.79	5.33	0.166	0.70	0.17	0.53	879.83	2.26
ST-016	U.S. 62	118+80-119+50	LT.	0.078	878.70	878.10	877.30	877.10	1.40	70	6.37	4	14.40	1.38	10.45	0.81	5.33	0.366	0.34	0.10	0.50	879.99	1.79
ST-017	U.S. 62	120+20-121+35	RT.	0.126	878.20	877.50	876.60	876.40	1.60	115	5.56	4	22.25	2.30	16.88	0.81	5.33	0.126	0.55	0.14	0.56	879.50	1.86
ST-018	U.S. 62	122+00-122+65	RT.	0.087	877.55	876.90	876.00	875.85	1.55	65	6.55	4	15.03	1.49	11.66	0.80	5.33	0.087	0.38	0.11	0.54	879.01	2.00
ST-019	U.S. 62	123+00-125+65	RT.	0.292	877.05	876.30	875.70	875.60	1.35	265	8.30	4	49.67	6.04	39.13	0.78	5.33	0.292	1.22	0.24	0.51	878.76	2.22
ST-020	U.S. 62	124+90-125+65	LT.	0.106	877.60	876.90	876.30	876.20	1.30	75	9.65	4	16.82	1.86	14.20	0.81	5.33	0.106	0.46	0.13	0.57	878.80	1.77
ST-021	U.S. 62	115+85-116+65	RT.	0.104	877.70	877.00	876.10	875.80	1.60	80	4.90	4	21.00	3.00	16.08	0.81	5.33	0.120	0.52	0.14	0.56	878.81	2.97
ST-022	U.S. 62	126+10-128+50	LT.	0.198	876.30	875.60	875.00	874.80	1.30	240	5.62	4	32.99	3.71	26.53	0.79	5.33	0.198	0.84	0.19	0.51	878.70	2.91
ST-023	U.S. 62	127+95-128+45	RT.	0.060	876.20	875.60	874.70	874.50	1.50	50	6.50	4	12.01	1.34	8.04	0.78	5.33	0.166	0.25	0.09	0.51	878.81	3.12
ST-024	U.S. 62	128+95-131+00	RT.	0.488	876.80	875.95	874.70	874.50	2.10	205	7.65	4	76.46	5.93	65.39	0.77	5.33	0.366	2.01	0.33	0.52	881.07	4.79
ST-025	U.S. 62	133+80-134+50	RT.	0.073	879.60	879.00	878.60	878.50	1.00	70	13.16	4	15.85	1.49	9.78	0.79	5.33	0.126	0.31	0.10	0.50	881.12	2.02
ST-026	U.S. 62	134+80-135+15	RT.	0.039	879.50	878.90	878.00	877.90	1.50	35	5.81	4	7.02	0.30	5.23	0.79	5.33	0.087	0.17	0.07	0.53	881.12	2.02
ST-027	U.S. 62	134+90-136+60	LT.	0.149	879.20	878.50	877.70	877.50	1.50	170	5.00	4	26.46	2.82	19.97	0.80	5.33	0.149	0.64	0.16	0.54	881.12	2.46
ST-028	U.S. 62	135+60-136+65	RT.	0.295	880.00	879.25	878.00	877.80	2.00	105	8.10	4	44.23	3.00	39.53	0.78	5.33	0.295	1.23	0.24	0.51	881.33	1.84
ST-029	U.S. 62	139+95-141+65	LT.	0.172	878.85	878.15	877.30	877.10	1.55	170	4.70	4	27.08	3.00	23.05	0.80	5.33	0.172	0.74	0.17	0.53	881.42	3.11
ST-030	U.S. 62	142+45-143+30	LT.	0.098	879.25	878.60	877.70	877.45	1.55	85	5.07	4	16.19	1.82	13.13	0.81	5.33	0.098	0.43	0.12	0.53	880.96	2.24
ST-031	U.S. 62	143+00-144+70	RT.	0.269	878.70	877.90	877.00	876.80	1.70	170	7.38	4	41.50	39.65	36.05	0.78	5.33	0.269	1.12	0.23	0.57	880.85	2.72
ST-032	U.S. 62	143+75-144-10	LT.	0.039	879.10	878.50	877.70	877.50	1.40	35	6.46	4	7.33	5.98	5.23	0.80	5.33	0.039	0.17	0.07	0.53	880.84	2.27
ST-033	U.S. 62	144+30-145+35	LT.	0.086	878.85	878.20	877.50	877.30	1.35	105	4.85	4	13.82	13.12	11.52	0.80	5.33	0.086	0.37	0.11	0.54	880.55	2.24
ST-034	U.S. 62	145+12-145+27	RT.	0.026	878.80	878.25	877.00	876.85	1.80	15	7.25	4	4.67	4.00	3.48	0.79	5.33	0.026	0.11	0.05	0.50	880.85	2.55
ST-035	U.S. 62	145+80-146+20	RT.	0.052	878.75	878.15	877.25	877.05	1.50	40	5.78	4	8.45	7.90	6.97	0.79	5.33	0.052	0.22	0.08	0.52	880.88	2.65
ST-036	U.S. 62	146+53-148+35	RT.	0.173	879.40	878.70	878.00	877.90	1.40	182	7.18	4	33.45	26.44	23.18	0.79	5.33	0.173	0.73	0.17	0.53	881.02	2.15
ST-037	U.S. 62	146+75-148+35	LT.	0.125	879.55	878.90	878.20	878.05	1.35	160	5.63	4	23.77	19.09	16.75	0.80	5.33	0.125	0.54	0.14	0.51	880.79	1.75
ST-038	U.S. 62	148+75-150+95	LT.	0.176	879.40	878.70	878.20	878.10	1.20	220	7.04	4	29.51	26.92	23.58	0.80	5.33	0.176	0.76	0.18	0.52	881.10	2.22
ST-039	U.S. 62	148+75-149+10	RT.	0.045	879.30	878.70	877.70	877.45	1.60	35	5.75	4	8.19	6.92	6.03	0.79	5.33	0.045	0.19	0.07	0.53	881.24	2.47
ST-040	U.S. 62	149+50-150+55	RT.	0.101	879.20	878.50	877.70	877.55	1.50	105	5.83	4	18.99	15.57	13.53	0.79	5.33	0.101	0.43	0.12	0.58	881.23	2.61
ST-041	U.S. 62	150+75-152+10	RT.	0.140	878.60	877.95	877.40	877.25	1.20	135	8.00	4	24.50	21.84	18.76	0.78	5.33	0.140	0.59	0.15	0.50	881.26	3.16
ST-042	U.S. 62	151+30-152+10	LT.	0.073	879.30	878.70	878.00	877.80	1.30	80	5.56	4	12.90	11.19	9.78	0.79	5.33	0.073	0.31	0.10	0.50	881.09	2.29
ST-043	U.S. 62	152+45-153+60	LT.	0.092	878.75	878.10	877.50	877.35	1.25	115	5.82	4	15.38	14.22	12.33	0.82	5.33	0.092	0.41	0.12	0.53	881.08	2.86
ST-044	U.S. 62	152+45-153+90	RT.	0.147	879.00	878.30	877.40	877.20	1.60	145	6.39	4	33.04	22.30	19.70	0.78	5.33	0.147	0.60	0.15	0.55	881.29	2.84
ST-045	U.S. 62	154+20-155+05	RT.	0.149	879.60	878.90	878.20	878.10	1.40	85	13.10	4	30.48	22.27	19.97	0.80	5.33	0.149	0.64	0.16	0.54	881.77	2.71
ST-046	U.S. 62	155+20-155+77	LT.	0.049	878.95	878.35	877.60	877.40	1.35	57	4.39	4	7.60	7.46	6.57	0.80	5.33	0.049	0.21	0.08	0.52	881.66	3.23
ST-047	U.S. 62	155+45-156+75	RT.	0.278	879.55	878.80	878.20	878.10	1.35	130	14.11	4	43.88	40.85	37.25	0.80	5.33	0.278	1.19	0.23	0.52	881.97	2.94
ST-048	U.S. 62	156+15-156+90	LT.	0.067	879.00	878.40	877.60	877.35	1.40	75	4.30	4	11.06	10.39	8.98	0.80	5.33	0.067	0.29	0.09	0.51	881.86	3.37

CALCULATED ECH CHECKED BSB

PROJECT SITE PLAN
SEDIMENT TRAP INFORMATION

FRA-62-1.64

STACY L WILLIS AND DESIREE DARDIO-WILLIS
7163 HARRISBURG PIKE

2.5 STY. FRAME COMM.

RADHA-RAJ, LLC.
7139 HARRISBURG PIKE

THE JAS GROUP, INC.

POT Sta. 84+00.00

BEGIN PROJECT
STA 86+57.58
S.L.M. 1.64

E130 (623)

℄ EX. LAMBERT RD.

STA. 87+94.43, 35.6' LT.
LIMITS OF PAVEMENT REPAIR

STA. 88+34.86, 35.6' LT.
LIMITS OF PAVEMENT REPAIR

WOODS

CONSTRUCTION LIMITS

D-100

36"

EX. 36"

EX. 36" CPP

Ex SH

V.M.S 947

V.M.S 931

84 | 201 | 85 | 202 | 86 | 203 | 87 | 204 | 88 | 205 | 89

N 32° 23' 01" E

℄ CONST. U.S. 62

BUTT JOINT

24" CPP

24"

STA. 87+71.69, 44.6' RT.
LIMITS OF PAVEMENT REPAIR

+57.58, BEGIN 1.5" MILL AND FILL

Ex LA

℄ EX. RAMP TO IR-71 N.B.

STA. 88+42.77,
44.4' RT.
LIMITS OF
PAVEMENT REPAIR

CONSTRUCTION LIMITS

D-200

WOODS

MATCHLINE U.S. 62 STA. 89+50, SEE BELOW

FOR CROSS SECTIONS, SEE SHEETS 32 - 35
FOR STORM SEWER PROFILES, SEE SHEETS 72 - 73

EX. CRUSHED AGGREGATE SLOPE PROTECTION TO BE REMOVED AND REPLACED

ITEM 670 - DITCH EROSION PROTECTION MAT, TYPE F

MABEL L MILLER AND GENEVIEVE L SHEETS
7176 HARRISBURG PIKE

B&B INDUSTRIES, INC.
7001 HARRISBURG PIKE

STRUCTURE NO.
FRA-71-3.08(R)

STRUCTURE NO.
FRA-71-3.08(L)

WOODS

A-R/W

CTV

R-3

D-1

D-101

EX LA R/W

℄ EX. IR-71

CONSTRUCTION LIMITS

73'

72'

R-1 | RD-1 | RD-2 | R-2

36"

MATCHLINE U.S. 62 STA. 84+50, SEE ABOVE

53"X34" RCP

90 | 206 | 91 | 207 | 92 | 208 | 93 | 209 | 94 | 210 | 211

℄ CONST. U.S. 62

N 32° 23' 01" E

BEGIN TYPE 5 TO MGS GUARDRAIL TRANSITION +43.86

END TRANSITION +18.99

BEGIN TYPE 5 TO MGS GUARDRAIL TRANSITION +93.12

GR-2

END TRANSITION +17.99

R-6

+81.82

+55.16

24"

R-4

GR-1

EX. TYPE 5 GUARDRAIL TO BE REMOVED AND REPLACED WITH TYPE MGS (25')

EX. TYPE B, ANCHOR ASSEMBLY TO BE REMOVED AND REPLACED WITH MGS TYPE B, ANCHOR ASSEMBLY

D-2

R-5

EX. TYPE 5 GUARDRAIL TO BE REMOVED AND REPLACED WITH TYPE MGS (25')

EX. TYPE B, ANCHOR ASSEMBLY TO BE REMOVED AND REPLACED WITH MGS TYPE B, ANCHOR ASSEMBLY

WOODS

WOODS

HORIZONTAL SCALE IN FEET
0 10 20 40

CALCULATED BLM
CHECKED BSB

PLAN - U.S. 62
STA. 84+00.00 TO STA. 95+00.00

FRA-62-1.64

19
84

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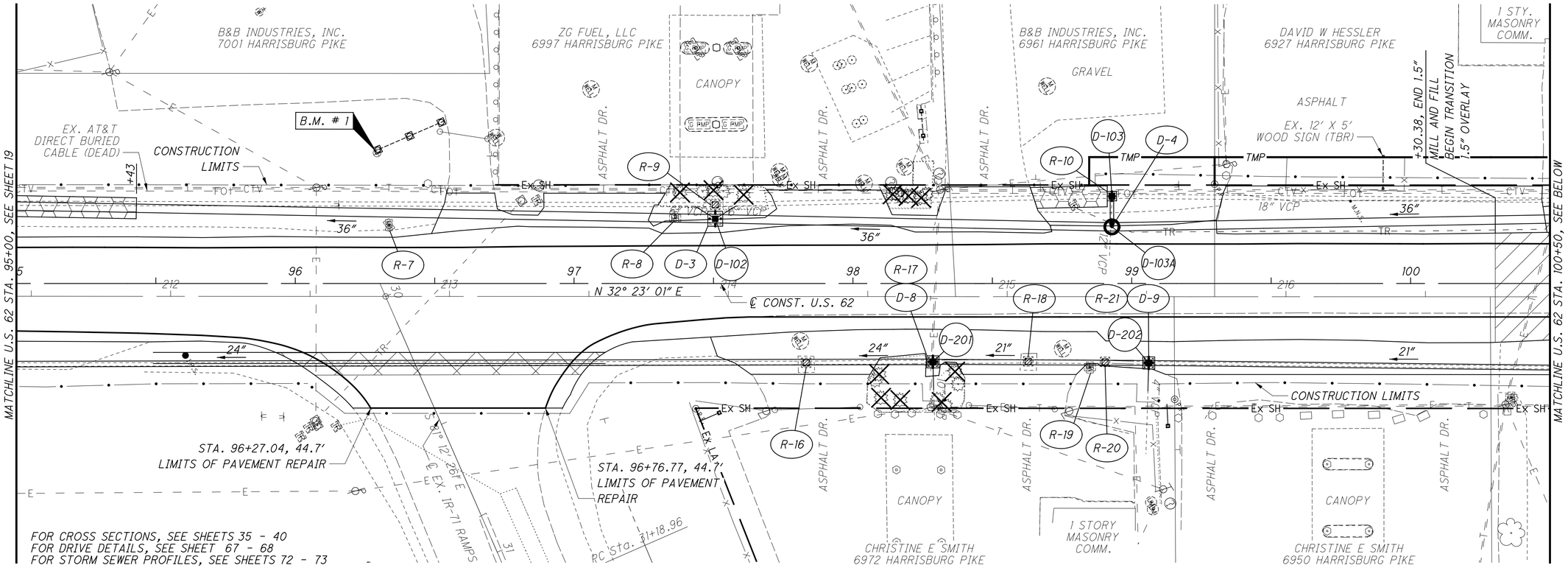

HORIZONTAL SCALE IN FEET
0 10 20 40

CALCULATED BLM
CHECKED BSB

PLAN - U.S. 62
STA. 95+00.00 TO STA. 106+00.00

FRA-62-1.64

20
84

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SHEET NO.	REF. NO.	STATION FROM	STATION TO	SIDE	202 PIPE REMOVED, 24" AND UNDER	202 CATCH BASIN REMOVED	SPECIAL MAILBOX REMOVED AND RESET	202 REMOVAL MISC.: CRUSHED AGGREGATE SLOPE PROTECTION	202 GUARDRAIL REMOVED	202 ANCHOR ASSEMBLY REMOVED, TYPE B	209 PREPARING SUBGRADE FOR SHOULDER PAVING, AS PER PLAN	254 (1.5") PAVEMENT PLANING, ASPHALT CONCRETE	255 FULL DEPTH PAVEMENT SAWING, AS PER PLAN	301 (9") ASPHALT CONCRETE BASE, PG64-22	304 (6") AGGREGATE BASE	407 TACK COAT @ 0.075 GAL/SY	442 (1.5") ASPHALT CONCRETE SURFACE COURSE, 12.5MM, TYPE A (448)	617 (2") COMPACTED AGGREGATE	601 CRUSHED AGGREGATE SLOPE PROTECTION	606 GUARDRAIL, TYPE MGS	606 ANCHOR ASSEMBLY, MGS TYPE B	
					FT	EACH	EACH	SY	FT	EACH	MILE	SY	FT	CY	CY	GAL	CY	CY	CY	FT	EACH	
19	R-1	90+79	91+55	LT				85														
19	R-2	92+17	92+92	LT				83														
19	R-3	88+93	95+00	LT	607																	
19	R-4	89+82	90+44	RT					25	1												
19	R-5	89+11	95+00	RT	589																	
19	R-6	93+93	94+55	RT					25	1												
19	GR-1	89+82	90+44	RT																25	1	
19	GR-2	93+93	94+55	RT																25	1	
19	RD-1	90+79	91+55	LT															85			
19	RD-2	92+17	92+92	LT															83			
19	PAVE	86+58	87+17	LT/RT								303				23	13	1				
19	PAVE	87+17	89+00	LT/RT								1267				95	53	2				
19	PAVE	89+00	95+00	LT/RT								2302				173	96	7				
20	R-7	96+34	-	LT			1															
20	R-8	97+36	-	LT			1															
20	R-9	95+00	97+51	LT	251	1																
20	R-10	97+51	98+93	LT	142	1																
20	R-11	98+93	106+00	LT	703	1																
20	R-12	102+26	-	LT			1															
20	R-13	103+00	103+24	LT	25																	
20	R-14	105+10	-	LT			1															
20	R-15	105+14	105+75	LT	61																	
20	R-16	95+00	97+83	RT	282	1																
20	R-17	97+83	98+29	RT	54	1																
20	R-18	98+29	98+63	RT	32	1																
20	R-19	98+85	-	RT			1															
20	R-20	98+63	98+90	RT	26	1																
20	R-21	98+90	99+06	RT	24	1																
20	R-22	99+06	101+97	RT	291	1																
20	R-23	101+97	104+30	RT	231	1																
20	R-24	104+30	106+00	RT	168	1																
20	PAVE	95+00	95+93	LT/RT								391				29	16	1.15				
20	PAVE	95+93	97+11	RT								771	214	24	16	66	37	0.99				
20	PAVE	97+11	100+30	LT/RT								1358				102	57	3.94				
20	PAVE	100+30	101+05	LT/RT							0.01	306				23	13	0.12				
20	PAVE	101+05	106+00	LT/RT							0.16					149	83	1.65				
20	DRIVES	96+49	100+30	LT/RT								829					35					
20	DRIVES	100+30	101+05	LT/RT								161					7					
20	DRIVES	101+05	106+00	LT/RT													10					
TOTALS CARRIED TO GENERAL SUMMARY					3486	11	5	168	50	2	0.17	7688	214	24	16	660	420	18	168	50	2	

CALCULATED SMJ
CHECKED BSB

ESTIMATED QUANTITIES
STA. 84+00.00 TO STA. 106+00.00

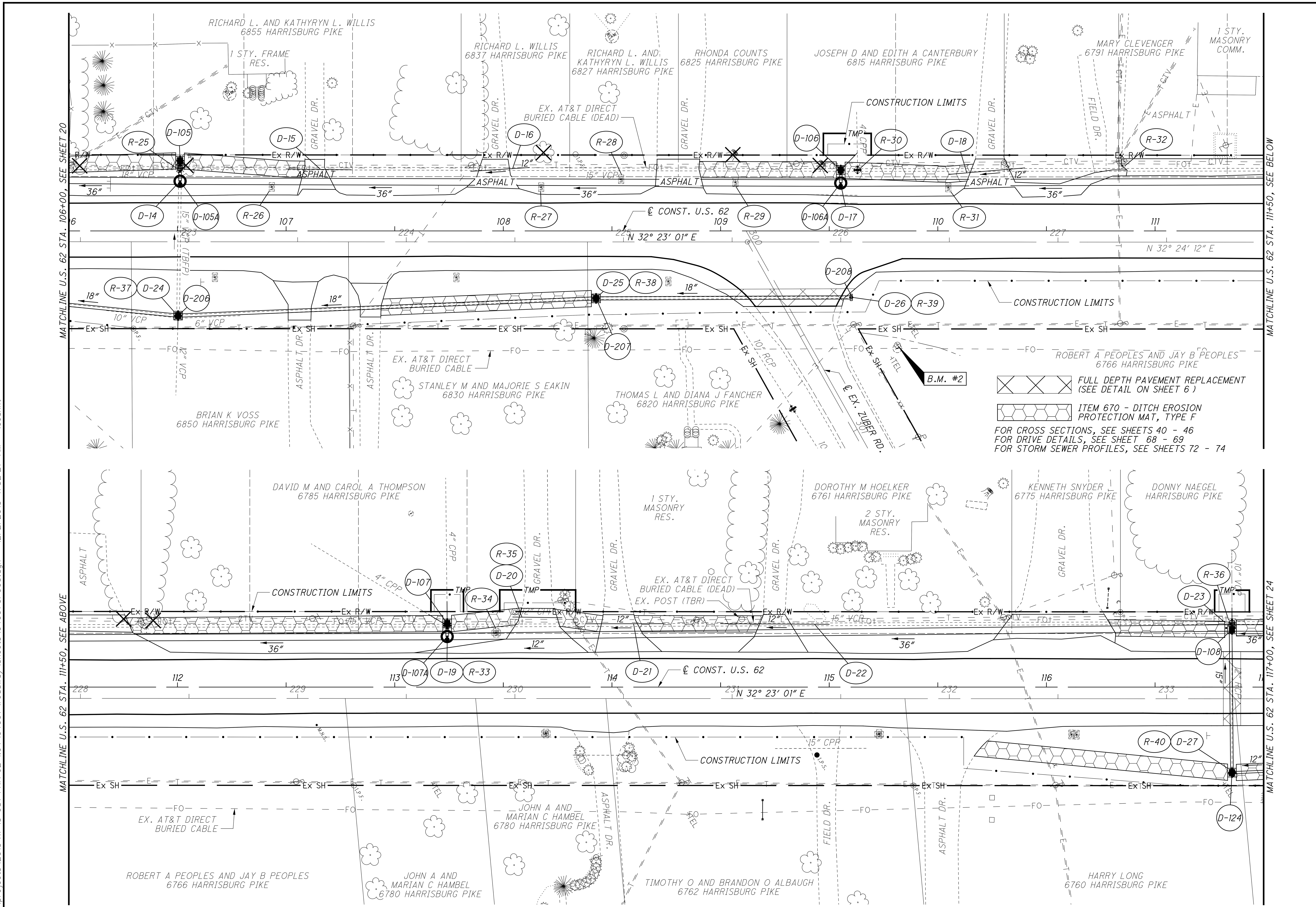
FRA-62-1.64

SHEET NO.	REF. NO.	STATION FROM	STATION TO	SIDE	611 4" CONDUIT, TYPE E (706.08) FT	611 6" CONDUIT, TYPE E (706.08) FT	611 10" CONDUIT, TYPE E (706.08) FT	611 12" CONDUIT, TYPE E (706.08) FT	611 12" CONDUIT, TYPE D FT	611 15" CONDUIT, TYPE C FT	611 18" CONDUIT, TYPE B FT	611 18" CONDUIT, TYPE C FT	611 21" CONDUIT, TYPE B FT	611 21" CONDUIT, TYPE C FT	611 24" CONDUIT, TYPE B FT	611 36" CONDUIT, TYPE B FT	611 CATCH BASIN, NO. 2-2B EACH	611 CATCH BASIN, NO. 2-3 EACH	611 CATCH BASIN, NO. 2-4 EACH	611 CATCH BASIN, NO. 5 EACH	611 CATCH BASIN, NO. 5A EACH	611 MANHOLE, NO. 3 EACH	670 DITCH EROSION PROTECTION MAT, TYPE F SY
19	D-1	88+93	95+00	LT												607					1		88
19	D-2	89+11	95+00	LT											589								
20	D-3	95+00	97+51	LT		20										251			1				36
20	D-4	97+51	98+93	LT				10		11						142	1					1	22
20	D-5	98+93	106+00	LT												707					1		78
20	D-6	103+00	103+24	LT					25														
20	D-7	105+14	105+75	LT					61														40
20	D-8	95+00	98+29	RT			10								329			1					
20	D-9	98+29	99+06	RT	10								77					1					
20	D-10	101+50	101+97	RT					47														
20	D-11	99+06	101+97	RT									291							1			
20	D-12	101+97	104+30	RT										233						1			191
20	D-13	104+30	106+00	RT							149	21								1			78
TOTALS CARRIED TO GENERAL SUMMARY					10	20	10	10	133	11	149	21	368	233	918	1707	1	2	1	3	2	1	533

CALCULATED SMJ
CHECKED BSB

ESTIMATED QUANTITIES
STA 84+00.00 TO STA 106+00.00

FRA-62-1.64



CALCULATED BLM
CHECKED BSB

PLAN - U.S. 62
STA. 106+00.00 TO STA. 117+00.00

FRA-62-1.64

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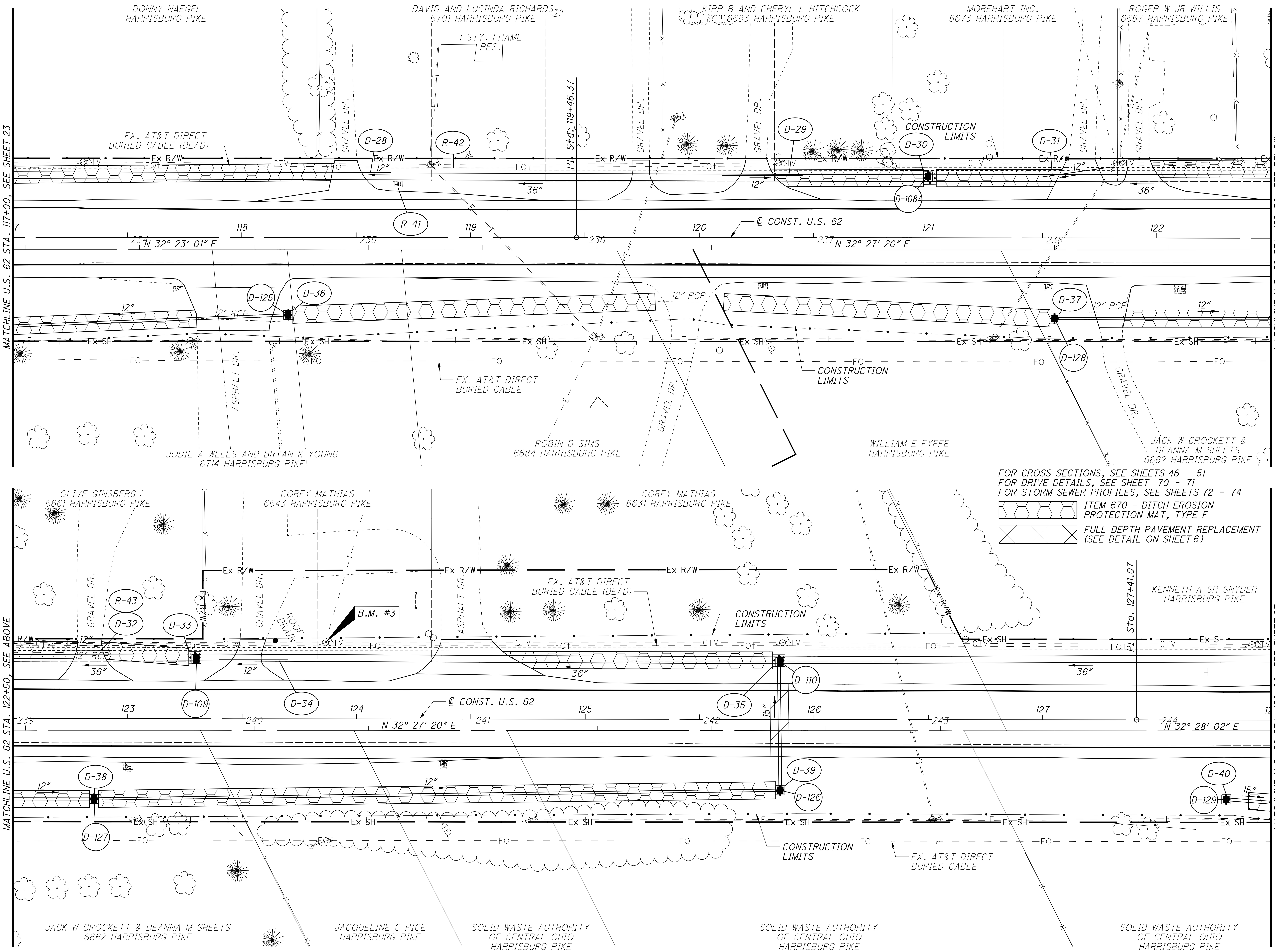

DONNY NAEGEL
HARRISBURG PIKE
DAVID AND LUCINDA RICHARDS
6701 HARRISBURG PIKE
1 STY. FRAME
RES.
KIPP B AND CHERYL L HITCHCOCK
6683 HARRISBURG PIKE
MOREHART INC.
6673 HARRISBURG PIKE
ROGER W JR WILLIS
6667 HARRISBURG PIKE
EX. AT&T DIRECT
BURIED CABLE (DEAD)
GRAVEL DR.
CONSTRUCTION
LIMITS
D-28
R-42
D-29
D-30
D-31
D-108A
R-41
PI Sta. 119+46.37
℄ CONST. U.S. 62
N 32° 23' 01" E
N 32° 27' 20" E
D-125
D-36
D-37
D-128
12" RCP
ASPHALT DR.
EX. AT&T DIRECT
BURIED CABLE
JODIE A WELLS AND BRYAN K YOUNG
6714 HARRISBURG PIKE
ROBIN D SIMS
6684 HARRISBURG PIKE
WILLIAM E FYFFE
HARRISBURG PIKE
JACK W CROCKETT &
DEANNA M SHEETS
6662 HARRISBURG PIKE
MATCHLINE U.S. 62 STA. 117+00, SEE SHEET 23
MATCHLINE U.S. 62 STA. 122+50, SEE BELOW
FOR CROSS SECTIONS, SEE SHEETS 46 - 51
FOR DRIVE DETAILS, SEE SHEET 70 - 71
FOR STORM SEWER PROFILES, SEE SHEETS 72 - 74
ITEM 670 - DITCH EROSION
PROTECTION MAT, TYPE F
FULL DEPTH PAVEMENT REPLACEMENT
(SEE DETAIL ON SHEET 6)
OLIVE GINSBERG
6661 HARRISBURG PIKE
COREY MATHIAS
6643 HARRISBURG PIKE
COREY MATHIAS
6631 HARRISBURG PIKE
KENNETH A SR SNYDER
HARRISBURG PIKE
ROOF
DRAIN
B.M. #3
EX. AT&T DIRECT
BURIED CABLE (DEAD)
PI Sta. 127+41.07
R-43
D-32
D-33
D-109
D-34
D-35
D-110
D-38
D-127
D-39
D-126
D-40
D-129
N 32° 28' 02" E
MATCHLINE U.S. 62 STA. 122+50, SEE ABOVE
MATCHLINE U.S. 62 STA. 128+00, SEE SHEET 27
JACK W CROCKETT & DEANNA M SHEETS
6662 HARRISBURG PIKE
JACQUELINE C RICE
HARRISBURG PIKE
SOLID WASTE AUTHORITY
OF CENTRAL OHIO
HARRISBURG PIKE
SOLID WASTE AUTHORITY
OF CENTRAL OHIO
HARRISBURG PIKE
SOLID WASTE AUTHORITY
OF CENTRAL OHIO
HARRISBURG PIKE

HORIZONTAL SCALE IN FEET 0 10 20 40

CALCULATED BLM
CHECKED BSB

PLAN - U.S. 62
STA. 117+00.00 TO STA. 128+00.00

FRA-62-1.64

G:\projects\2013\W-13-081 FRA-62-1.64\94907\roadway\sheets\94907GP004.dgn 12/2/2015 11:52:36 AM leeannt

SHEET NO.	REF. NO.	STATION FROM	STATION TO	SIDE	202 PIPE REMOVED, 24" AND UNDER (FT)	202 HEADWALL REMOVED (EACH)	SPECIAL FILL AND PLUG EXISTING CONDUIT (FT)	202 CATCH BASIN REMOVED (EACH)	SPECIAL MAILBOX REMOVED AND RESET (EACH)	209 PREPARING SUBGRADE FOR SHOULDER PAVING, AS PER PLAN (MILE)	255 FULL DEPTH PAVEMENT SAWING, AS PER PLAN (FT)	301 (9") ASPHALT CONCRETE BASE, PG64-22 (CY)	304 (6") AGGREGATE BASE (CY)	407 TACK COAT @ 0.075 GAL/SY (GAL)	442 (1.5") ASPHALT CONCRETE SURFACE COURSE, 12.5MM, TYPE A (448) (CY)	605 AGGREGATE DRAIN (FT)	617 (2") COMPACTED AGGREGATE (CY)					
23	R-25	106+00	106+51	LT	50			1														
23	R-26	106+93	-	LT					1													
23	R-27	108+17	-	LT					1													
23	R-28	108+54	-	LT					1													
23	R-29	109+07	-	LT					1													
23	R-30	106+51	109+63	LT	319			1														
23	R-31	110+05	-	LT					1													
23	R-32	110+85	-	LT					1													
23	R-33	109+63	113+24	LT	378			1														
23	R-34	113+47	-	LT					1													
23	R-35	113+54	113+77	LT	23																	
23	R-36	113+24	117+00	LT	376			1														
23	R-37	106+00	106+50	RT	76		66	1														
23	R-38	106+50	108+43	RT	191			1														
23	R-39	108+43	109+61	RT	117	1																
23	R-40	116+85	-	RT	68			1														
23	PAVE	106+00	108+98	LT/RT						0.09				61	51		0.97					
23	PAVE	108+98	109+62	LT/LTRT						0.01	110	14	10	31	20		0.32					
23	PAVE	109+62	116+81	LT/RT						0.22				136	124		2.16					
23	PAVE	116+81	116+89	LT/RT						0.003	68	8	5	2	3	25	0.04					
23	PAVE	116+89	117+00	LT/RT						0.004				3	2		0.05					
23	DRIVES	106+94	116+32	LT/RT											18							
24	R-41	118+68	-	LT					1													
24	R-42	117+00	128+00	LT	1100																	
24	R-43	122+72	122+93	LT	21																	
24	PAVE	117+00	125+81	LT/RT						0.27				151	141		2.59					
24	PAVE	125+81	125+89	LT/RT						0.003	64	7	5	2	2	20	0.04					
24	PAVE	125+89	128+00	LT/RT						0.08				57	32		1.05					
24	DRIVES	117+75	124+82	LT/RT											18							
TOTALS CARRIED TO GENERAL SUMMARY					2719	1	66	7	8	0.68	242	29	20	443	411	45	7					

CALCULATED SMJ
CHECKED BSB

ESTIMATED QUANTITIES
STA. 106+00.00 TO STA. 128+00.00

FRA-62-1.64

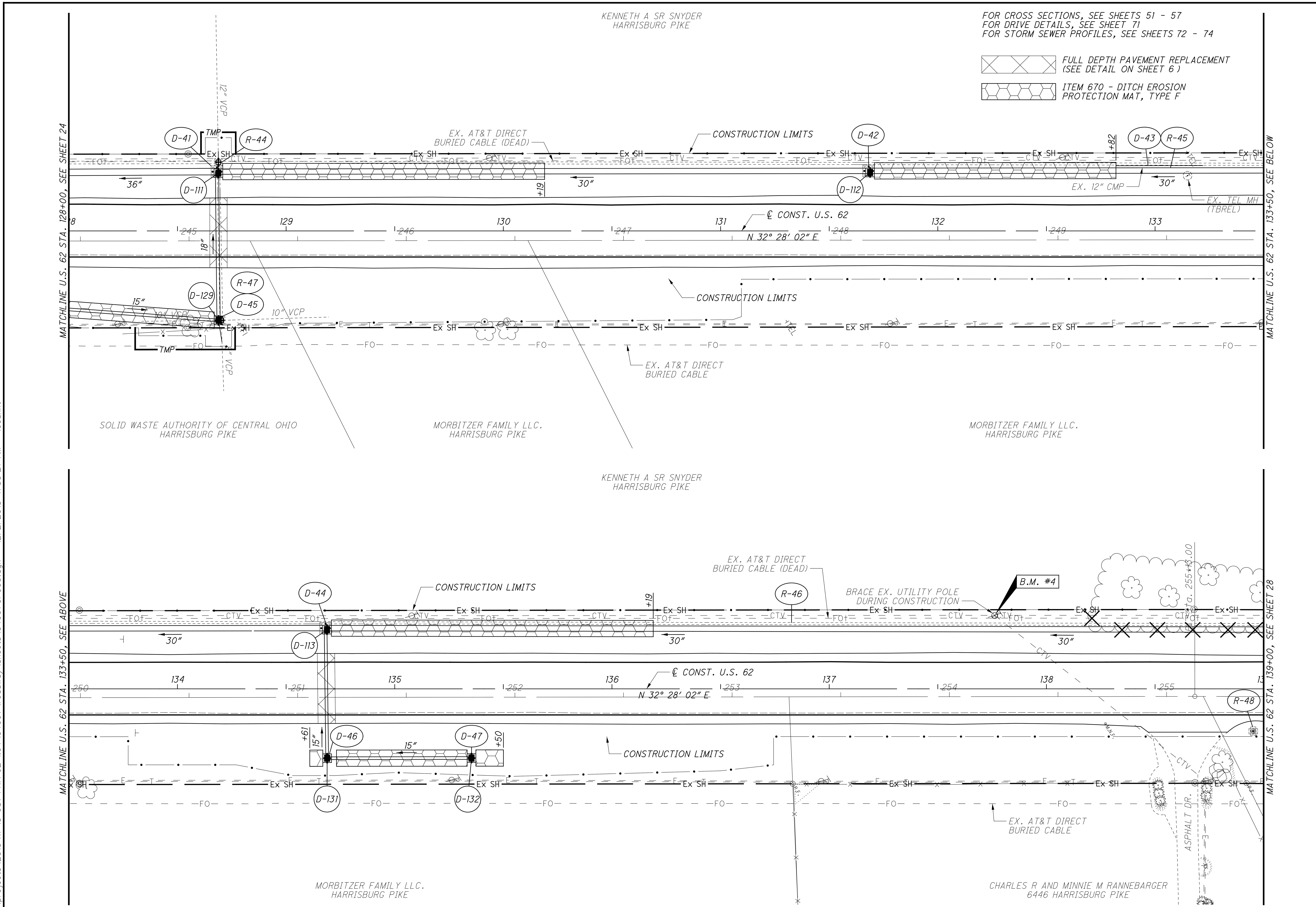
25
84

SHEET NO.	REF. NO.	STATION FROM	STATION TO	SIDE	602 CONCRETE MASONRY (CY)	611 4" CONDUIT, TYPE E (707.32, 707.33) (FT)	611 10" CONDUIT, TYPE E (706.08) (FT)	611 12" CONDUIT, TYPE E (706.08) (FT)	611 12" CONDUIT, TYPE B (FT)	611 12" CONDUIT, TYPE C (FT)	611 12" CONDUIT, TYPE D (FT)	611 15" CONDUIT, TYPE B (FT)	611 15" CONDUIT, TYPE C (FT)	611 18" CONDUIT, TYPE B (FT)	611 18" CONDUIT, TYPE C (FT)	611 36" CONDUIT, TYPE B (FT)	611 36" CONDUIT, TYPE C (FT)	611 CATCH BASIN, NO. 5 (EACH)	611 CATCH BASIN, NO. 5A (EACH)	611 MANHOLE, NO. 3 (EACH)	670 DITCH EROSION PROTECTION MAT, TYPE F (SY)	
23	D-14	106+00	106+51	LT									9				51	1		1	41	
23	D-15	107+00	107+30	LT							30										46	
23	D-16	107+85	108+12	LT							27											
23	D-17	106+51	109+55	LT		11							6			304		1		1	53	
23	D-18	110+05	110+40	LT							35										48	
23	D-19	109+55	113+24	LT		20										369		1		1	120	
23	D-20	113+54	113+77	LT							23										26	
23	D-21	113+88	114+24	LT							36										17	
23	D-22	114+50	115+00	LT							50										47	
23	D-23	113+24	117+00	LT			10									376			1		54	
23	D-24	106+00	106+50	RT				6							51			1				
23	D-25	106+50	108+43	RT										193				1			81	
23	D-26	108+43	109+61	RT	0.31									118								
23	D-27	115+70	117+00	RT						15		67						1			106	
24	D-28	118+30	118+65	LT							35										116	
24	D-29	120+10	120+45	LT							35											
24	D-30	117+00	121+00	LT												401			1		98	
24	D-31	121+50	121+80	LT							30											
24	D-32	122+72	122+93	LT							21										66	
24	D-33	121+00	123+30	LT												229			1		31	
24	D-34	123+40	123+70	LT							30											
24	D-35	123+30	128+00	LT												255	215		1		93	
24	D-36	117+00	119+81	RT						120								1			199	
24	D-37	120+11	122+85	RT					130									1			201	
24	D-38	122+85	125+85	RT						300								1			247	
24	D-39	125+85	125+85	LT/RT								57						1				
24	D-40	127+80	128+00	RT									20					1			15	
TOTALS CARRIED TO GENERAL SUMMARY					0.31	31	10	6	130	435	352	124	35	311	51	1934	266	11	4	3	1705	

CALCULATED SMJ
CHECKED BSB

ESTIMATED QUANTITIES
STA. 106+00.00 TO STA. 128+00.00

FRA-62-1.64



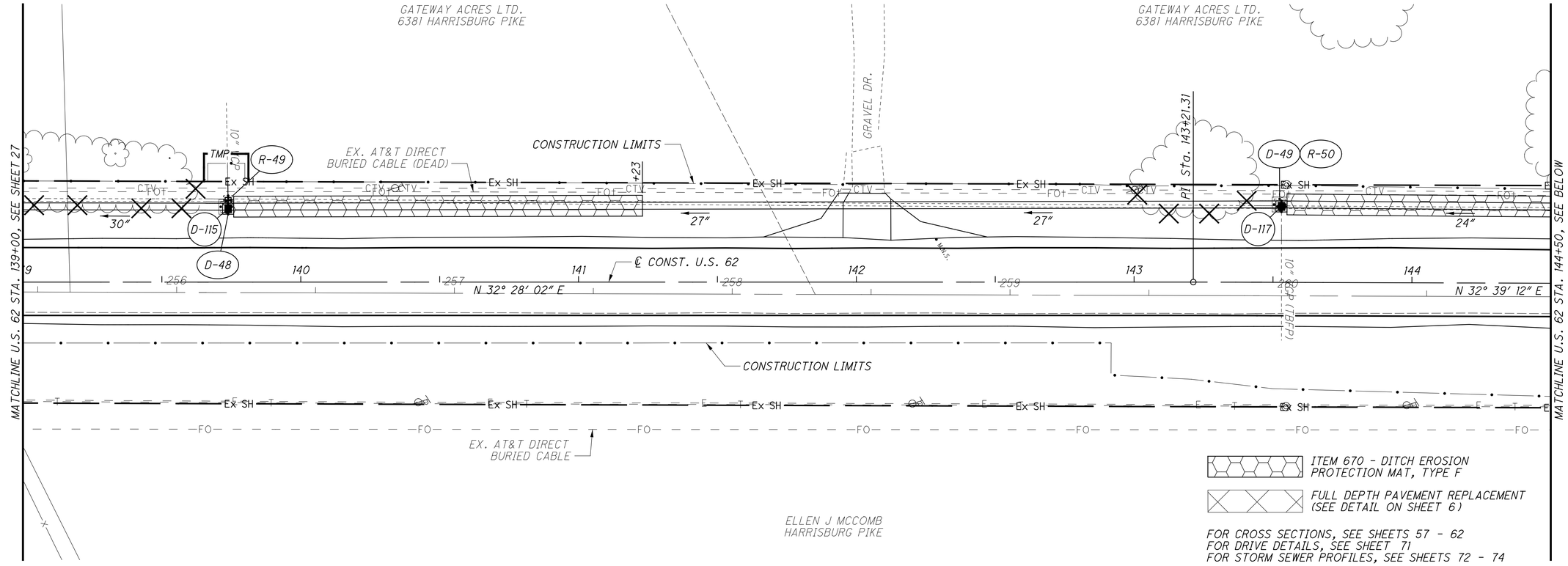
FOR CROSS SECTIONS, SEE SHEETS 51 - 57
FOR DRIVE DETAILS, SEE SHEET 71
FOR STORM SEWER PROFILES, SEE SHEETS 72 - 74
FULL DEPTH PAVEMENT REPLACEMENT (SEE DETAIL ON SHEET 6)
ITEM 670 - DITCH EROSION PROTECTION MAT, TYPE F
KENNETH A SR SNYDER HARRISBURG PIKE
MATCHLINE U.S. 62 STA. 128+00, SEE SHEET 24
MATCHLINE U.S. 62 STA. 133+50, SEE BELOW
D-41
R-44
TMP
12" VCP
EX. AT&T DIRECT BURIED CABLE (DEAD)
CONSTRUCTION LIMITS
D-42
D-43
R-45
D-111
D-112
36"
30"
+19
+82
EX. 12" CMP
EX. TEL MH (TBREL)
℄ CONST. U.S. 62
N 32° 28' 02" E
129
130
131
132
133
18"
R-47
D-129
D-45
15"
10" VCP
EX. AT&T DIRECT BURIED CABLE
SOLID WASTE AUTHORITY OF CENTRAL OHIO HARRISBURG PIKE
MORBITZER FAMILY LLC. HARRISBURG PIKE
MORBITZER FAMILY LLC. HARRISBURG PIKE
KENNETH A SR SNYDER HARRISBURG PIKE
MATCHLINE U.S. 62 STA. 133+50, SEE ABOVE
MATCHLINE U.S. 62 STA. 139+00, SEE SHEET 28
D-44
D-113
R-46
B.M. #4
BRACE EX. UTILITY POLE DURING CONSTRUCTION
134
135
136
137
138
D-46
D-47
D-131
D-132
+61
+50
R-48
ASPHALT DR.
Sta. 255+13.00
CHARLES R AND MINNIE M RANNEBARGER 6446 HARRISBURG PIKE
MORBITZER FAMILY LLC. HARRISBURG PIKE

HORIZONTAL SCALE IN FEET 0 10 20 40

CALCULATED BLM
CHECKED BSB

PLAN - U.S. 62
STA. 128+00.00 TO STA. 139+00.00

FRA-62-1.64



HORIZONTAL SCALE IN FEET
0 10 20 40

CALCULATED BLM
CHECKED BSB

PLAN - U.S. 62
STA. 139+00.00 TO STA. 150+00.00

FRA-62-1.64

28
84

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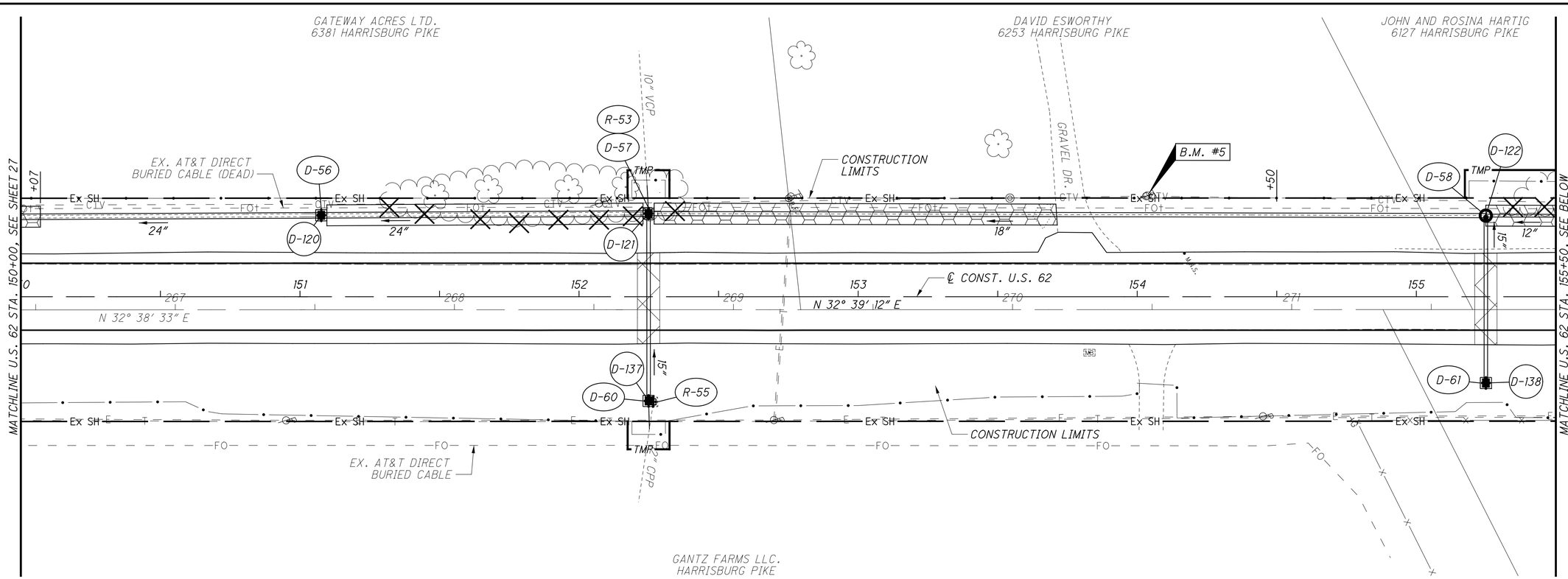

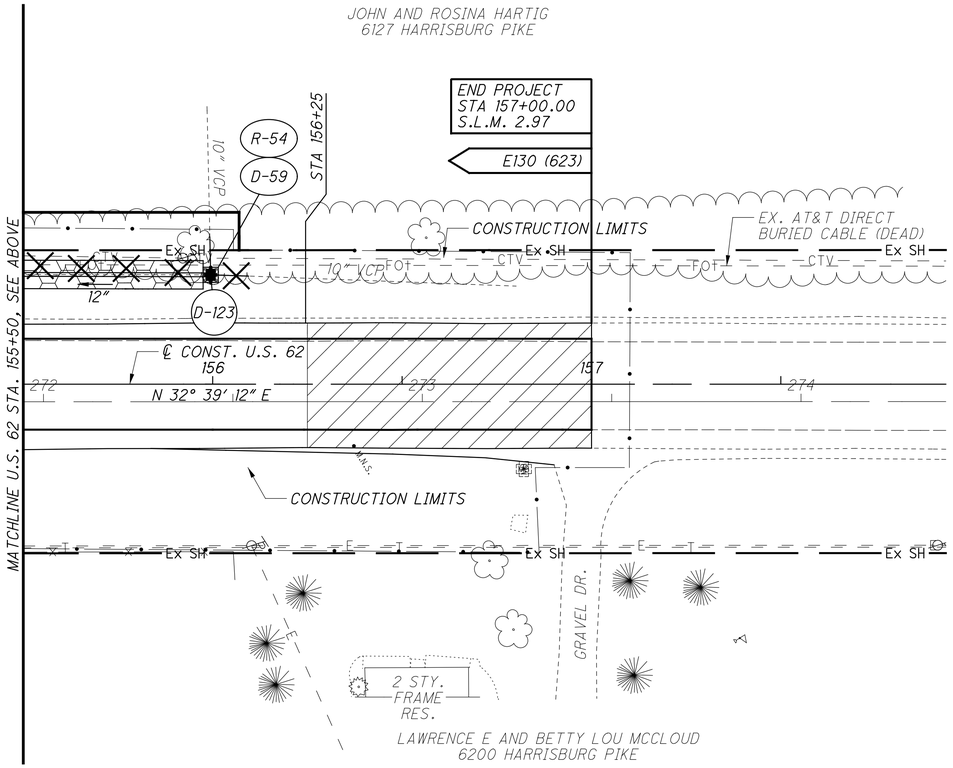

ALL BELOW DRIVE PIPES ARE 12" RCP AND LT. WITH RESPECT TO ℄ CONST. U.S. 62 UNLESS OTHERWISE NOTED.

DRIVE PIPE DATA						
TYPE	STATION	OS (FT)	LENGTH (FT)	DIRECTION	INV EL	EX INV EL
NEW	101+50.00	31.84 RT	47	NE	875.50	
	101+97.42	31.84 RT		SW	873.20	
R&R	102+99.81	29.15	25	NE	875.03	
	103+24.34	29.01		SW	875.26	
R&R	105+14.14	19.03	61	NE	875.31	
	105+75.10	29.86		SW	875.13	
NEW	107+00.00	28.49	30	NE	873.90	
	107+30.00	28.14		SW	874.00	
NEW	107+85.00	27.40	27	NE	874.80	
	108+12.00	29.20		SW	874.90	
NEW	110+05.00	26.00	35	NE	875.05	
	110+40.00	29.00		SW	875.15	
R&R	113+54.35	32.28	23	NE	876.74	
	113+76.96	31.94		SW	877.05	
NEW	113+88.00	29.15	36	NE	877.20	
	114+24.00	29.20		SW	877.30	
NEW	114+50.00	29.20	50	NE	877.50	
	115+00.00	28.90		SW	877.90	
NEW	118+30.00	28.60	35	NE	877.15	
	118+65.00	28.30		SW	877.25	
NEW	120+10.00	27.10	35	NE	876.70	
	120+45.00	27.10		SW	876.60	
NEW	121+50.00	26.70	30	NE	876.90	
	121+80.00	31.00		SW	877.00	
R&R	122+72.47	29.93	21	NE	876.30	876.50
	122+93.11	29.84		SW	876.10	876.46
NEW	123+40.00	25.80	30	NE	876.00	
	123+70.00	25.80		SW	876.10	

FOR CROSS SECTIONS, SEE SHEETS 62 - 66
FOR DRIVE DETAILS, SEE SHEET 71
FOR STORM SEWER PROFILES, SEE SHEETS 73 - 74

(0" - 1.5") VARIABLE DEPTH PAVEMENT OVERLAY

FULL DEPTH PAVEMENT REPLACEMENT (SEE DETAIL ON SHEET 6)

ITEM 670 - DITCH EROSION PROTECTION MAT, TYPE F

BENCHMARK DATA

BM #1 STA. 96+29.33, ELEV. 875.95, OFFSET 46.79', LT. CHISELED "X" ON EASTERLY BOLT OF SUNOCO SIGN SOUTHERLY SUPPORT BASE. SEE SHEET 20.

BM #2 STA. 109+81.40, ELEV. 875.82, OFFSET 52.60', RT. CHISELED "X" ON WEST RIM OF TELEPHONE MANHOLE ST NE CORNER OF US 62 (HARRISBURG PIKE) AND ZUBER ROAD. SEE SHEET 23.

BM #3 STA. 123+86.27, ELEV. 878.94, OFFSET 33.23', LT. RAILROAD SPIKE IN EAST SIDE OF TELEPHONE POLE #351248, WEST SIDE OF US 62 (HARRISBURG PIKE) ADJACENT TO HOUSE ADDRESS #6643. SEE SHEET 24.

BM #4 STA. 137+76.17, ELEV. 882.34, OFFSET 33.72', LT. RAILROAD SPIKE IN EAST SIDE OF TELEPHONE POLE #351239, WEST SIDE OF US 62 (HARRISBURG PIKE) ADJACENT TO HOUSE ADDRESS #6446. SEE SHEET 27.

BM #5 STA. 154+03.70, ELEV. 880.37, OFFSET 36.21', LT. RAILROAD SPIKE IN EAST SIDE OF TELEPHONE POLE #351231, WEST SIDE OF US 62 (HARRISBURG PIKE) ADJACENT TO HOUSE ADDRESS #6253. SEE THIS SHEET.

HORIZONTAL SCALE IN FEET
0 10 20 40

CALCULATED BLM
CHECKED BSB

PLAN - U.S. 62
STA. 150+00.00 TO STA. 157+00.00

FRA-62-1.64

29
84

SHEET NO.	REF. NO.	STATION FROM	STATION TO	SIDE	202 PIPE REMOVED, 24" AND UNDER	SPECIAL FILL AND PLUG EXISTING CONDUIT	202 CATCH BASIN REMOVED	SPECIAL MAILBOX REMOVED AND RESET	209 PREPARING SUBGRADE FOR SHOULDER PAVING, AS PER PLAN	254 (1.5") PAVEMENT PLANING, ASPHALT CONCRETE	255 FULL DEPTH PAVEMENT SAWING, AS PER PLAN	301 (9") ASPHALT CONCRETE BASE, PG64-22	304 (6") AGGREGATE BASE	407 TACK COAT @ 0.075 GAL/SY	442 (1.5") ASPHALT CONCRETE SURFACE COURSE, 12.5MM, TYPE A (448)	605 AGGREGATE DRAIN	617 (2") COMPACTED AGGREGATE
					FT	FT	EACH	EACH	MILE	SY	FT	CY	CY	GAL	CY	FT	CY
27	R-44	128+00	128+69	LT	73		1										
27	R-45	132+82	133+22	LT	40												
27	R-46	128+69	139+00	LT	1030												
27	R-47	128+60	128+60	LT/RT	101		1										
27	R-48	138+95	-	RT				1									
27	PAVE	128+00	128+65	LT/RT					0.02					18	10		0.32
27	PAVE	128+65	128+73	LT/RT					0.00		64	7	5	2	2	20	0.04
27	PAVE	128+73	134+65	LT/RT					0.22					163	90		2.94
27	PAVE	134+65	134+73	LT/RT					0.00		64	7	5	2	2	20	0.04
27	PAVE	134+73	138+47	LT/RT					0.14					104	57		1.86
27	PAVE	138+47	138+83	LT/RT					0.01						6		0.09
27	PAVE	138+83	139+00	LT/RT					0.01					4	2		0.08
27	DRIVES	-	-	-													
28	R-49	139+00	139+74	LT	83		1										
28	R-50	139+74	143+53	LT	379	48	1										
28	R-51	143+53	145+58	LT	593		1										
28	R-52	145+58	150+00	LT	442												
28	PAVE	139+00	145+53	LT/RT					0.24					172	98		3.16
28	PAVE	145+53	145+61	LT/RT					0.00		65	7	5	2	2	20	0.04
28	PAVE	145+61	148+54	LT/RT					0.11					81	45		1.45
28	PAVE	148+54	148+62	LT/RT					0.00		64	7	5	2	2	20	0.04
28	PAVE	148+62	150+00	LT/RT					0.05					38	21		0.69
28	DRIVES	141+95	142+12	LT/RT											1		
29	R-53	150+00	152+25	LT	235		1										
29	R-54	152+25	156+09	LT	393		1										
29	R-55	152+27	-	RT	10		1										
29	PAVE	150+00	152+21	LT/RT					0.08					61	34		1.10
29	PAVE	152+21	152+29	LT/RT					0.00		65	7	5	2	2	20	0.04
29	PAVE	152+29	155+21	LT/RT					0.11					83	46		1.45
29	PAVE	155+21	155+29	LT/RT					0.00		66	8	5	2	2	20	0.04
29	PAVE	155+29	156+25	LT/RT					0.04					27	15		0.48
29	PAVE	156+25	157+00	LT/RT					0.03	275				21	12		0.37
29	DRIVES	-	-	-													
TOTALS CARRIED TO GENERAL SUMMARY					3379	48	8	1	1.09	275	388	43	30	784	449	120	14

CALCULATED SMJ
CHECKED BSB

ESTIMATED QUANTITIES
STA. 128+00.00 TO STA. 157+00.00

FRA-62-1.64

30
84

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SHEET NO.	REF. NO.	STATION FROM	STATION TO	SIDE	611 8" CONDUIT, TYPE E (706.08) FT	611 10" CONDUIT, TYPE E (706.08) FT	611 12" CONDUIT, TYPE E (706.08) FT	611 12" CONDUIT, TYPE E (707.32, 707.33) FT	611 12" CONDUIT, TYPE C FT	611 12" CONDUIT, TYPE D FT	611 15" CONDUIT, TYPE B FT	611 15" CONDUIT, TYPE C FT	611 18" CONDUIT, TYPE B FT	611 18" CONDUIT, TYPE C FT	611 24" CONDUIT, TYPE C FT	611 27" CONDUIT, TYPE C FT	611 30" CONDUIT, TYPE C FT	611 36" CONDUIT, TYPE B FT	611 CATCH BASIN, NO. 5 EACH	611 CATCH BASIN, NO. 5A EACH	611 MANHOLE, NO. 3 EACH	670 DITCH EROSION PROTECTION MAT, TYPE F SY
27	D-41	128+00	128+68	LT			10											68		1		
27	D-42	128+68	131+69	LT													300			1		125
27	D-43	131+69	133+22	LT						40												93
27	D-44	131+69	139+00	LT													732			1		125
27	D-45	128+00	128+69	LT/RT	10							69	69						1			56
27	D-46	134+69	134+69	RT							60								1			5
27	D-47	134+69	135+50	RT								67							1			63
28	D-48	139+00	139+74	LT		10											73			1		
28	D-49	139+74	143+53	LT												379				1		125
28	D-50	143+53	145+58	LT			10								205					1		166
28	D-51	145+58	150+00	LT											301				1			242
28	D-52	144+83	144+90	RT					67										1			57
28	D-53	144+90	146+32	LT/RT							60								1			58
28	D-54	147+08	148+58	LT/RT							61								1			125
28	D-55	148+58	149+30	RT					73										1			58
29	D-56	150+00	151+08	LT											108				1			6
29	D-57	151+08	152+25	LT		10									117				1			108
29	D-58	152+25	155+25	LT										300							1	107
29	D-59	155+25	156+09	LT		20			75										1			113
29	D-60	152+25	-	LT/RT				10			67								1			
29	D-61	155+25	-	LT/RT							60								1			40
TOTALS CARRIED TO GENERAL SUMMARY					10	40	20	10	215	40	308	136	69	300	731	379	1105	68	13	6	1	1672

CALCULATED SMJ
CHECKED BSB

ESTIMATED QUANTITIES
STA. 128+00.00 TO STA. 157+00.00

FRA-62-1.64

31
84

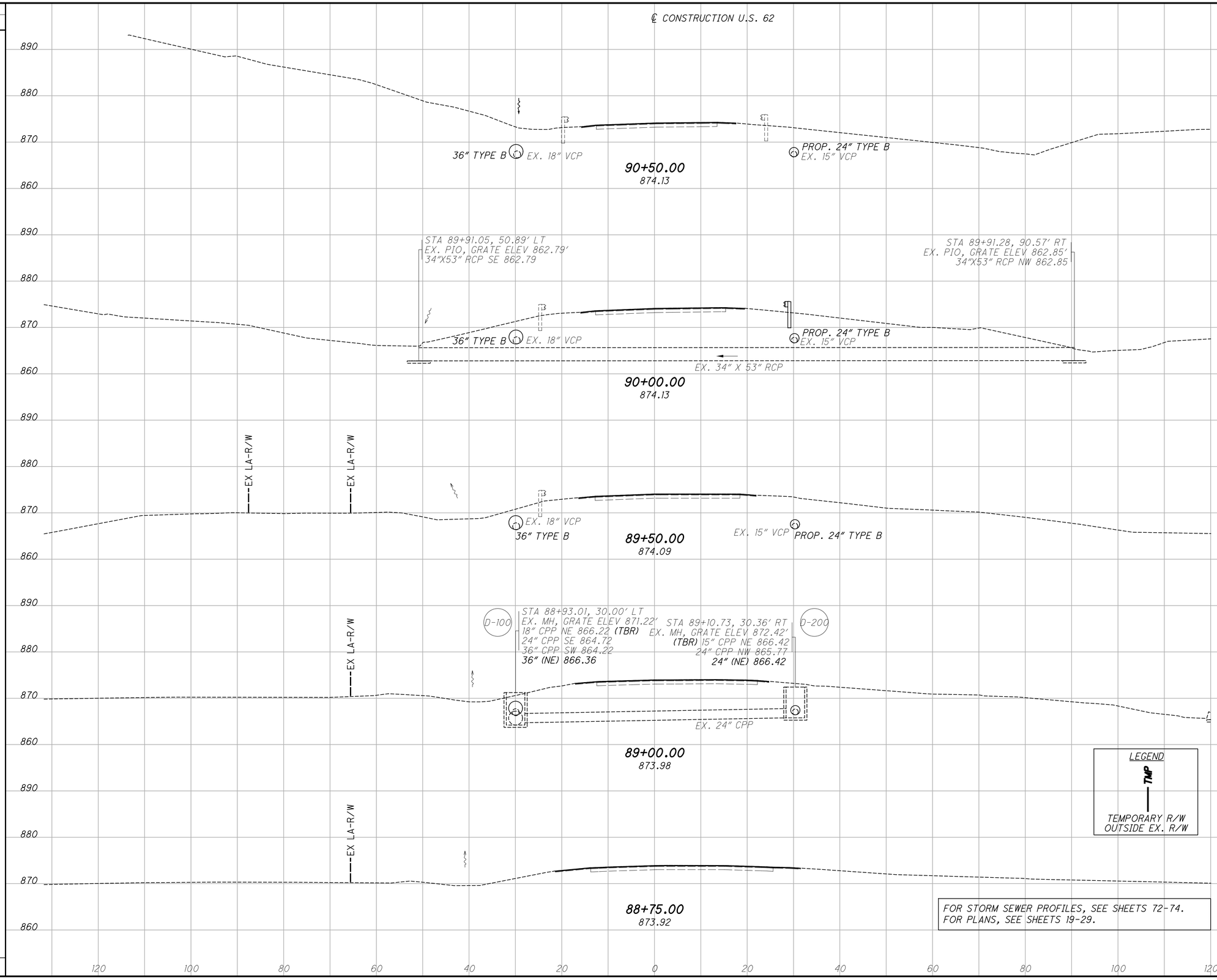
SEEDING	
END WIDTH	SQ. YDS.

END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED BLM
CHECKED BSB

CROSS SECTIONS U.S. 62
STA. 88+75.00 TO STA. 90+50.00

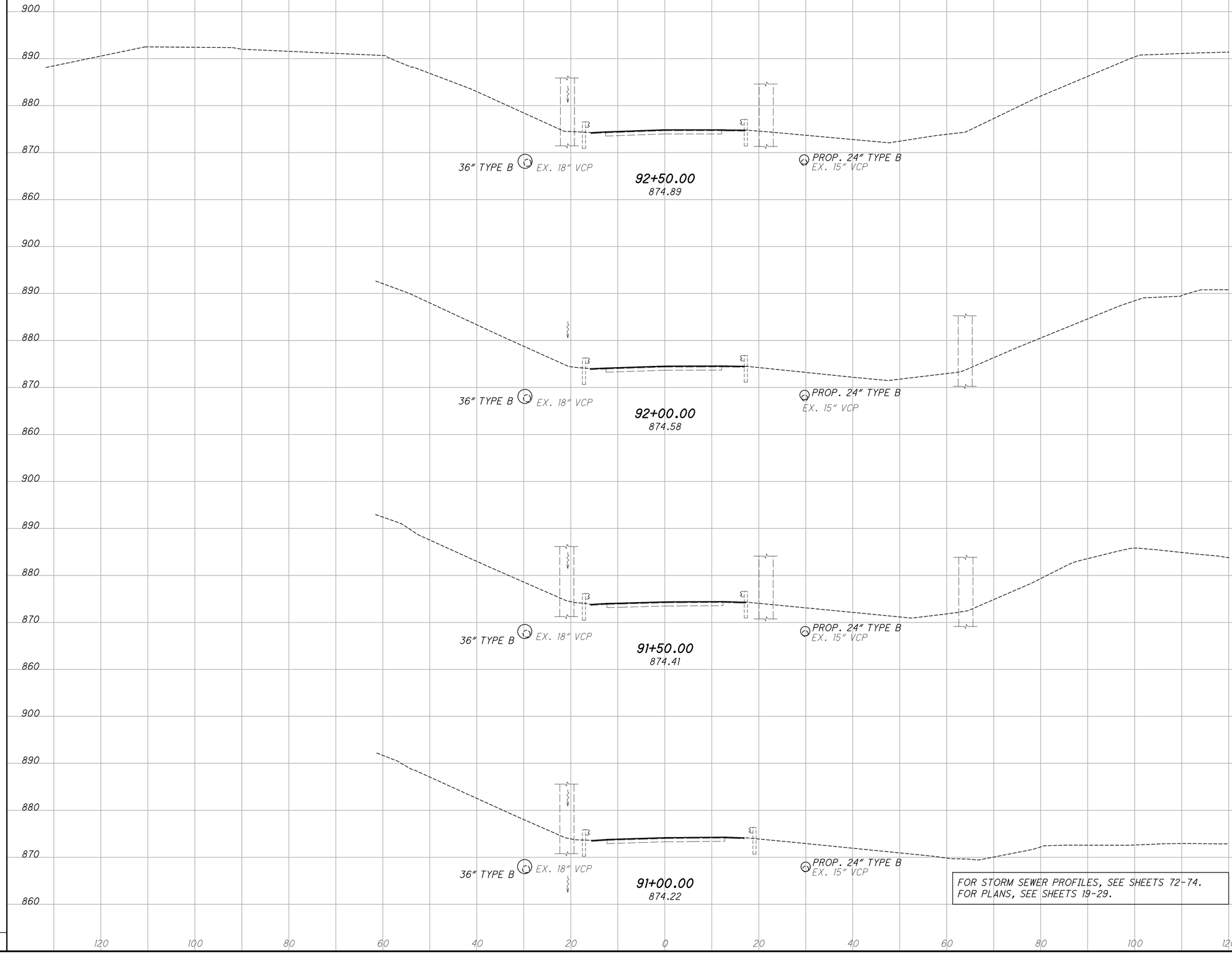
FRA-62-1.64



SEEDING

END WIDTH	SQ. YDS.

℄ CONSTRUCTION U.S. 62



FOR STORM SEWER PROFILES, SEE SHEETS 72-74.
FOR PLANS, SEE SHEETS 19-29.

END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED BLM
CHECKED BSB

CROSS SECTIONS U.S. 62
STA. 91+00.00 TO STA. 92+50.00

FRA-62-1.64

33
84

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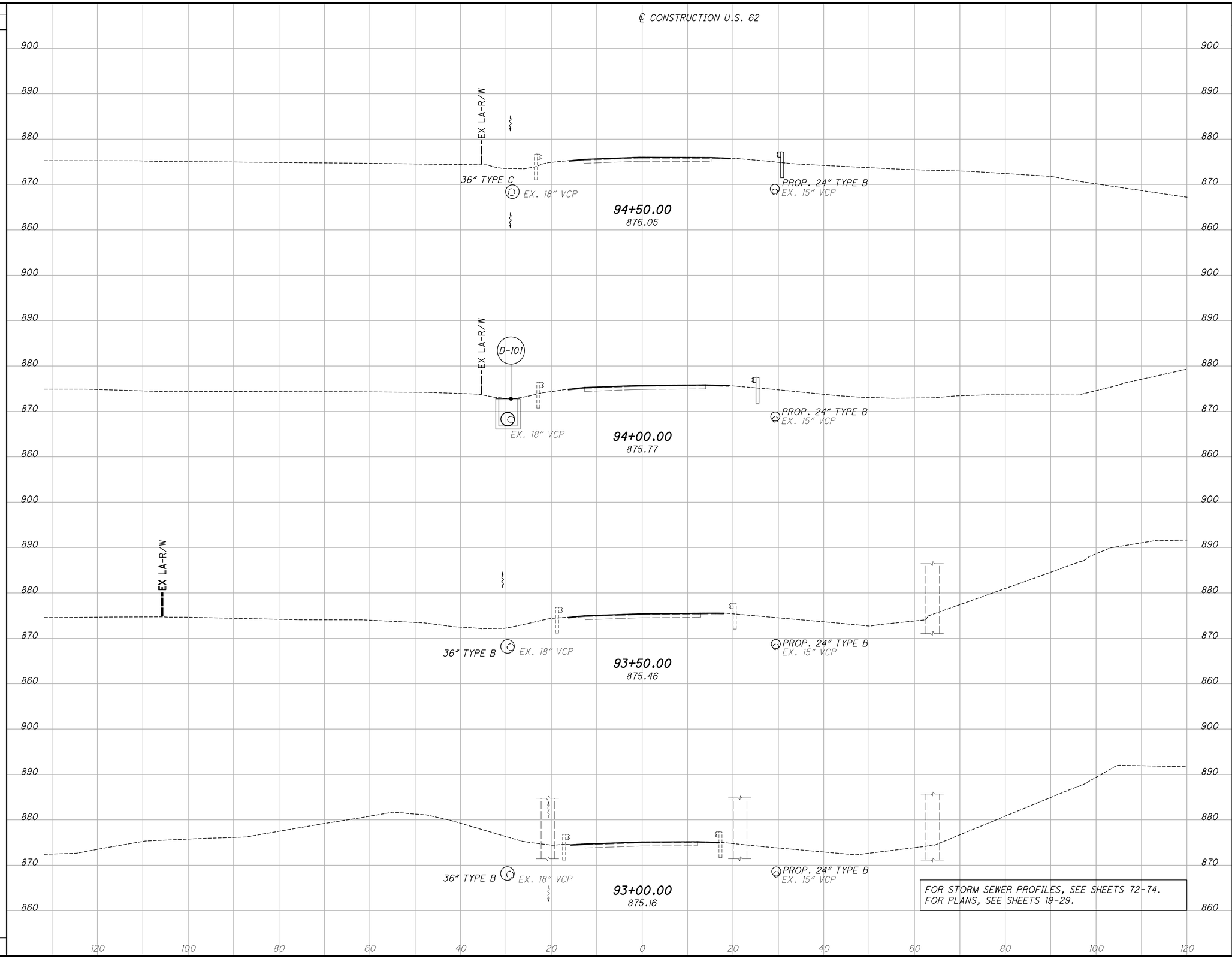
SEEDING	
END WIDTH	SQ. YDS.



FOR STORM SEWER PROFILES, SEE SHEETS 72-74.
FOR PLANS, SEE SHEETS 19-29.

END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED BLM
CHECKED BSB

CROSS SECTIONS U.S. 62
STA. 93+00.00 TO STA. 94+50.00

FRA-62-1.64

34
84

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SEEDING	
END WIDTH	SQ. YDS.

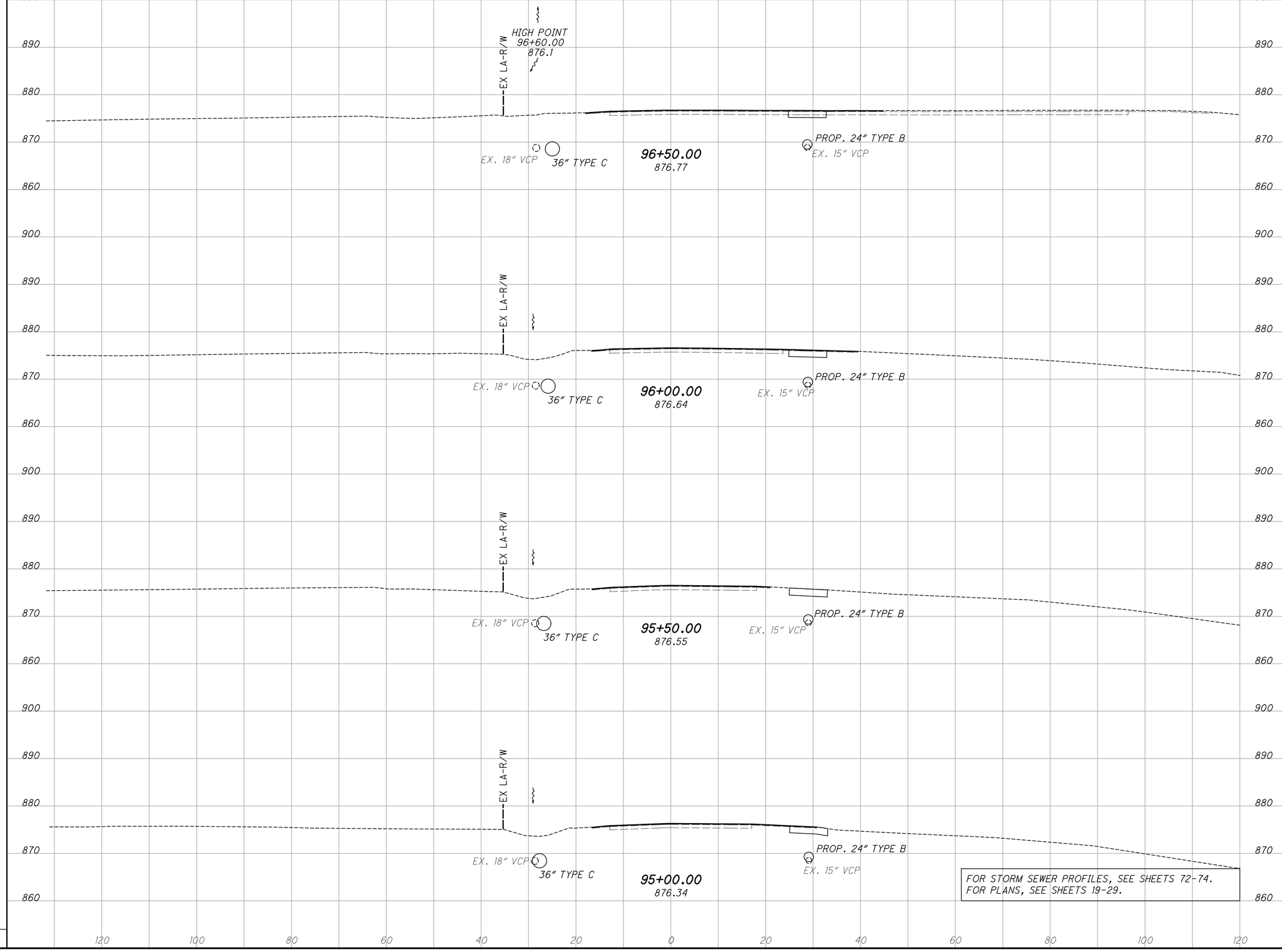
END AREA	
CUT	FILL

VOLUME	
CUT	FILL

CALCULATED BLM

CHECKED BSB

℄ CONSTRUCTION U.S. 62



FOR STORM SEWER PROFILES, SEE SHEETS 72-74.
FOR PLANS, SEE SHEETS 19-29.

CROSS SECTIONS U.S. 62
STA. 95+00.00 TO STA. 96+50.00

FRA-62-1.64

SEEDING	
END WIDTH	SQ. YDS.

END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED BLM

CHECKED BSB

℄ CONSTRUCTION U.S. 62

STA 98+28.69, 28.09' RT
(TBR) EX. CB, GRATE ELEV 875.18'
15" VCP NE 869.08
(TO REMAIN) 10" VCP SE 869.53
15" VCP SW 869.08

STA 98+62.86, 27.92' RT
(TBR) EX. CB, GRATE ELEV 875.77'
15" VCP NE 869.17
15" VCP SW 869.17

D-201

EX SH

HIGH POINT
98+50.00
876.2

℄=876.0

EX. 18" VCP
36" TYPE B

98+50.00
877.03

10" VCP (TO REMAIN)

HIGH POINT
98+30.00, 876.3
GRADE TO 875.9 AT 98+00.00

STA 97+83.24, 28.47' RT
EX. CB, GRATE ELEV 875.58' (TBR)
15" VCP NE 868.58
15" VCP SW 868.58

EX SH

℄=875.9

EX. 18" VCP
36" TYPE B

98+00.00
877.00

PROP. 24" TYPE B

STA 97+50.62, 28.19' LT
(TBR) EX. CB, GRATE ELEV 875.03'
18" VCP NE 868.33
6" VCP NE 870.93
6" VCP SW 870.63
18" VCP SW 868.28

D-102

EX SH

EX LA-R/W

97+50.00
876.97

PROP. 24" TYPE B
EX. 15" VCP

TRAFFIC POLE AND BASE
STA. 96+81.11, 29.62' LT.

EX SH

EX. 18" VCP
36" TYPE C

97+00.00
876.86

PROP. 24" TYPE B
EX. 15" VCP

FOR STORM SEWER PROFILES, SEE SHEETS 72-74.
FOR PLANS, SEE SHEETS 19-29.

900 890 880 870 860

120 100 80 60 40 20 0 20 40 60 80 100 120

CROSS SECTIONS U.S. 62
STA. 97+00.00 TO STA. 98+50.00

FRA-62-1.64

36
84

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SEEDING	
END WIDTH	SQ. YDS.

END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED BLM

CHECKED BSB

℄ CONSTRUCTION U.S. 62

HIGH POINT
100+86.00, 876.5

TMP
EX SH
EX SH

℄=876.0
4'-0"

PROP. 21" TYPE C
EX. 12" VCP
EX. 18" VCP
36" TYPE B
100+50.00
877.35

TMP
EX SH
EX SH

PROP. 21" TYPE C
EX. 12" VCP
EX. 18" VCP
36" TYPE B
100+00.00
877.24

TMP
EX SH
EX SH

PROP. 21" TYPE C
EX. 12" VCP
EX. 18" VCP
36" TYPE B
99+50.00
877.15

STA 98+92.89, 31.26' LT
(TBR) EX. CB, GRATE ELEV 874.24'
18" VCP NE 867.84
12" VCP SE 868.94
18" VCP SW 867.74

STA 99+06.09, 28.49' RT
(TBR) EX. CB, GRATE ELEV 875.56'
12" VCP NE 868.81
(TO REMAIN) 4" VCP SE 872.41
12" VCP SW 868.81

(TBR)
STA 98+90.45, 28.11' RT
EX. CB, GRATE ELEV 876.14'
12" VCP NE 869.34
15" VCP SW 869.34

TMP
EX SH
D-103
D-103A
D-202
EX SH

4" VCP

11'-15" TYPE C
@ 1.00%

99+00.00
877.07

HIGH POINT
98+90.00, 876.50
GRADE TO 876.3 AT 98+30.00

FOR STORM SEWER PROFILES, SEE SHEETS 72-74.
FOR PLANS, SEE SHEETS 19-29.

900 890 880 870 860

120 100 80 60 40 20 0 20 40 60 80 100 120

CROSS SECTIONS U.S. 62
STA. 99+00.00 TO STA. 100+50.00

FRA-62-1.64

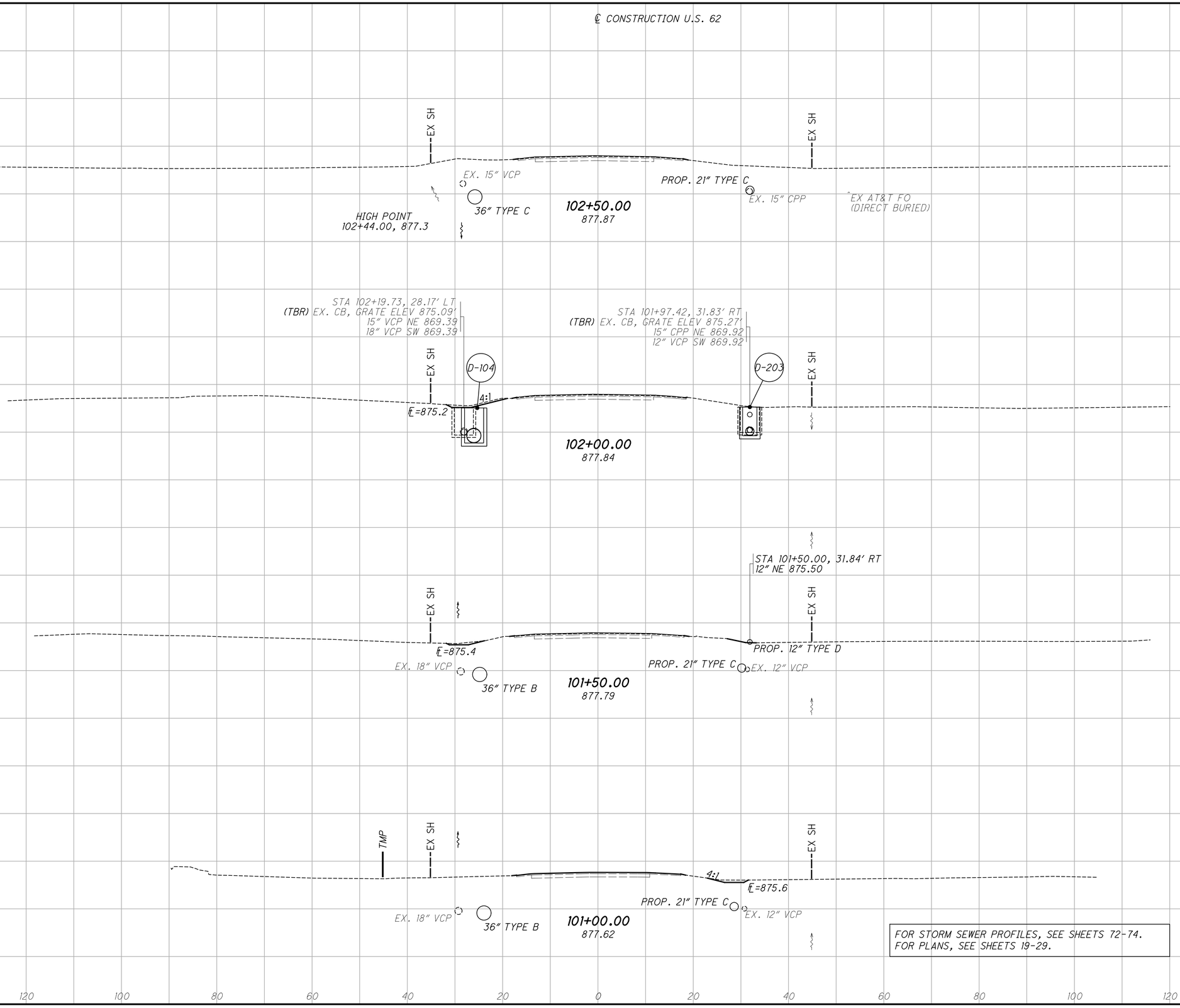
37
84

SEEDING	
END WIDTH	SQ. YDS.

END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED BLM

CHECKED BSB



CROSS SECTIONS U.S. 62
STA. 101+00.00 TO STA. 102+50.00

FRA-62-1.64

38
84

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SEEDING	
END WIDTH	SQ. YDS.

℄ CONSTRUCTION U.S. 62

STA 104+30.43, 31.58' RT
(TBR) EX. CB, GRATE ELEV 875.20'
12" CPP NE 869.90
15" CPP SW 869.80

D-204

EX R/W — EX SH

4:1

℄=875.3

36" TYPE C

104+50.00
877.88

℄=876.0

EX AT&T FO
(DIRECT BURIED)

HIGH POINT
104+00.00, 875.5

4'-0"

℄=875.3

PROP. 21" TYPE C
EX. 15" CPP

EX AT&T FO
(DIRECT BURIED)

36" TYPE C

104+00.00
877.88

4'-0"

℄=875.6

PROP. 21" TYPE C
15" CPP

EX AT&T FO
(DIRECT BURIED)

36" TYPE C

103+50.00
877.91

STA 102+99.81, 29.15' LT
12" NE 875.03
STA 102+99.81, 29.15' LT
(TBR) EX. DRIVE PIPE
12" RCP NE 875.03

STA 103+24.34, 29.01' LT
12" SW 875.26
STA 103+24.34, 29.01' LT
EX. DRIVE PIPE (TBR)
12" RCP SW 875.26

PROP. 12" TYPE D
EX. 12" TYPE D(TBR)

4'-0"

℄=875.9

PROP. 21" TYPE C
EX. 15" CPP

HIGH POINT
102+95.00, 876.0

EX AT&T FO
(DIRECT BURIED)

36" TYPE C

103+00.00
877.91

FOR STORM SEWER PROFILES, SEE SHEETS 72-74.
FOR PLANS, SEE SHEETS 19-29.

END AREA		VOLUME	
CUT	FILL	CUT	FILL

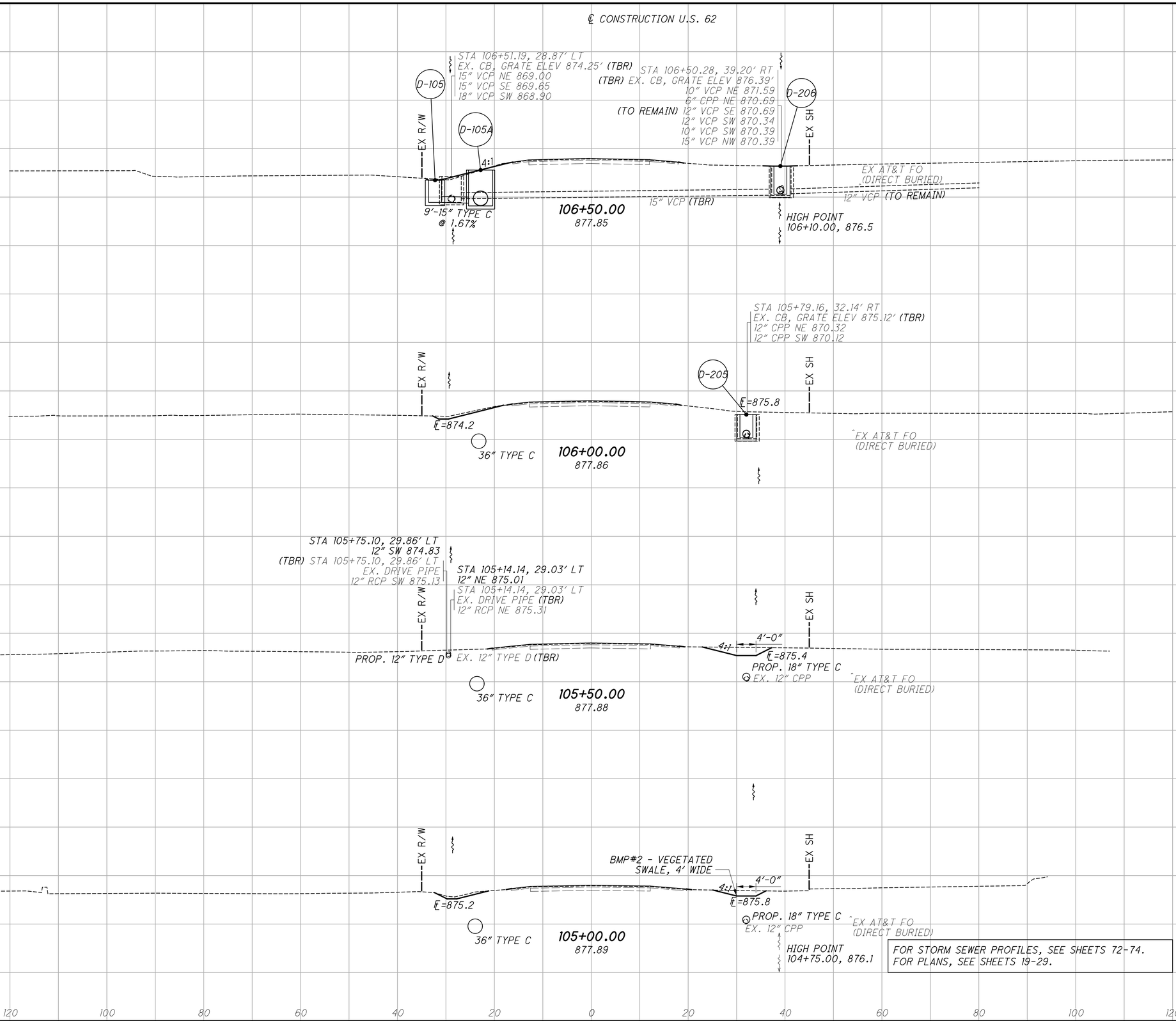
CALCULATED BLM
CHECKED BSB

CROSS SECTIONS U.S. 62
STA. 103+00.00 TO STA. 104+50.00

FRA-62-1.64

39
84

SEEDING	
END WIDTH	SQ. YDS.



FOR STORM SEWER PROFILES, SEE SHEETS 72-74.
FOR PLANS, SEE SHEETS 19-29.

END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED BLM
CHECKED BSB

CROSS SECTIONS U.S. 62
STA. 105+00.00 TO STA. 106+50.00

FRA-62-1.64

40
84

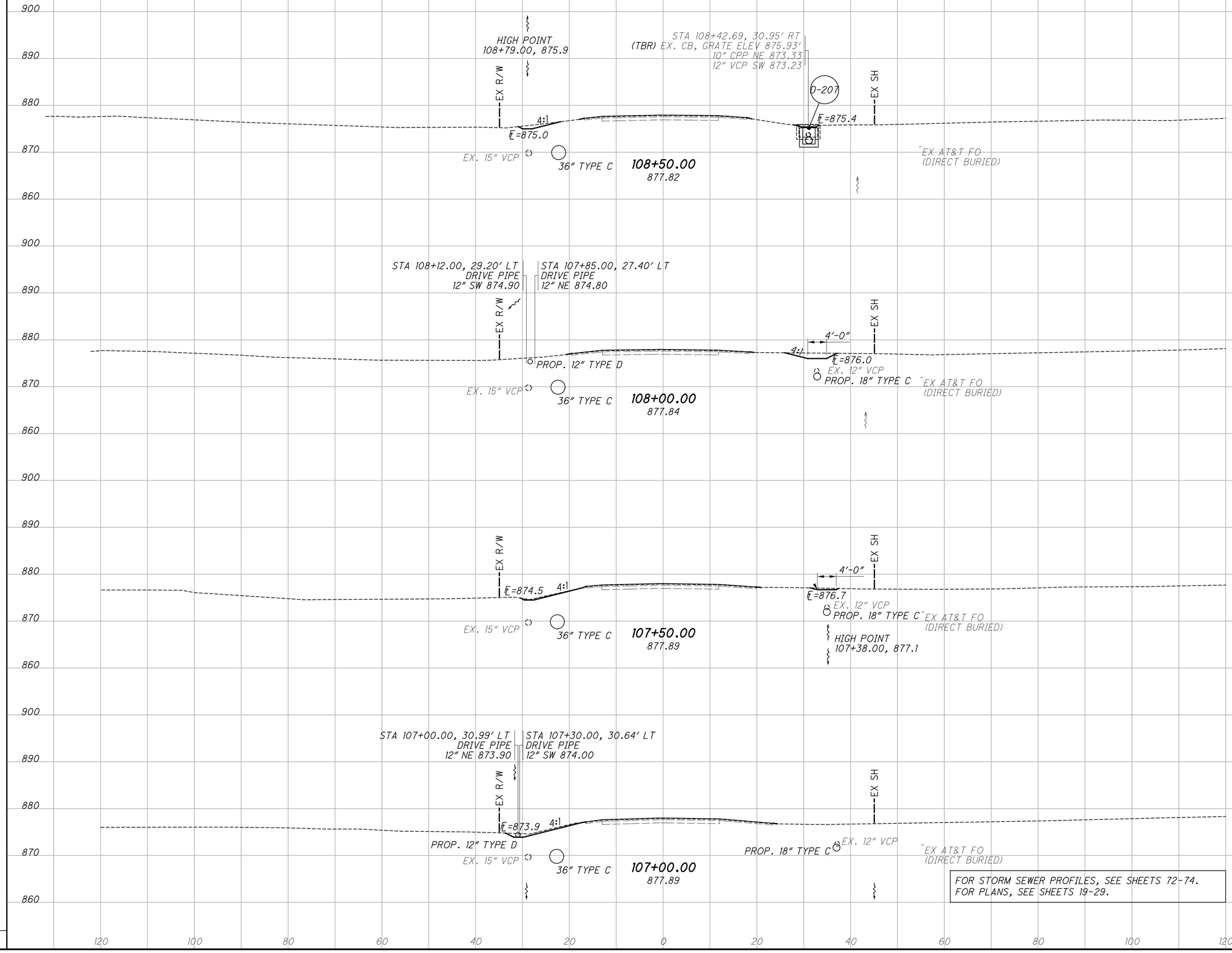
SEEDING	
END WIDTH	SQ. YDS.

END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED BLM

CHECKED BSB

℄ CONSTRUCTION U.S. 62



FOR STORM SEWER PROFILES, SEE SHEETS 72-74.
FOR PLANS, SEE SHEETS 19-29.

CROSS SECTIONS U.S. 62
STA. 107+00.00 TO STA. 108+50.00

FRA-62-1.64

SEEDING	
END WIDTH	SQ. YDS.

℄ CONSTRUCTION U.S. 62

HIGH POINT
110+80.00, 877.4

EX R/W

EX SH

4:1

℄=875.2

EX. 15" VCP

36" TYPE C **110+50.00**
877.22

EX AT&T FO
(DIRECT BURIED)

STA 110+40.00, 29.00' LT
DRIVE PIPE
12" SW 875.15

STA 110+05.00, 26.00' LT
DRIVE PIPE
12" NE 875.05

EX R/W

EX SH

EX SH

℄=875.0 4:1

EX. 15" VCP

36" TYPE C **110+00.00**
877.98

EX AT&T FO
(DIRECT BURIED)

STA 109+63.03, 28.02' LT
EX. CB, GRATE ELEV 874.49' (TBR)
4" CPP NW 872.74

STA 109+60.65, 30.58' RT
(TBR) EX. HEADWALL, INV. 874.33'
12" RCP SW 874.33

STA 109+33.27, 81.96' RT
EX. CB, GRATE ELEV 875.77'
10" RCP W 873.82
10" RCP E 873.82

TMP

EX R/W

D-106

D-106A

D-208

4:1

4" CPP

EX. 15" VCP

6'-15" TYPE C
@ 1.67%

109+50.00
877.89

PROP. 18" TYPE B

10" RCP

10" RCP

EX AT&T FO
(DIRECT BURIED)

EX R/W

EX SH

EX. 12" RCP

PROP. 18" TYPE B

EX. 15" VCP

36" TYPE C **109+00.00**
877.82

EX AT&T FO
(DIRECT BURIED)

FOR STORM SEWER PROFILES, SEE SHEETS 72-74.
FOR PLANS, SEE SHEETS 19-29.

900 890 880 870 860

120 100 80 60 40 20 0 20 40 60 80 100 120

END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED BLM
CHECKED BSB

CROSS SECTIONS U.S. 62
STA. 109+00.00 TO STA. 110+50.00

FRA-62-1.64

42
84

SEEDING	
END WIDTH	SQ. YDS.

END AREA	
CUT	FILL

VOLUME	
CUT	FILL

CALCULATED BLM

CHECKED BSB

℄ CONSTRUCTION U.S. 62

900 890 880 870 860

EX R/W

℄=876.2

EX SH

EX. 15" VCP

36" TYPE C

112+50.00
879.08

^EX AT&T FO
(DIRECT BURIED)

EX R/W

EX SH

EX. 15" VCP

36" TYPE C

112+00.00
878.96

^EX AT&T FO
(DIRECT BURIED)

EX R/W

EX SH

EX. 15" VCP

36" TYPE C

111+50.00
878.77

^EX AT&T FO
(DIRECT BURIED)

EX R/W

EX SH

EX. 15" VCP

36" TYPE C

111+00.00
878.51

^EX AT&T FO
(DIRECT BURIED)

120 100 80 60 40 20 0 20 40 60 80 100 120

FOR STORM SEWER PROFILES, SEE SHEETS 72-74.
FOR PLANS, SEE SHEETS 19-29.

CROSS SECTIONS U.S. 62
STA. 111+00.00 TO STA. 112+50.00

FRA-62-1.64

SEEDING	
END WIDTH	SQ. YDS.

END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED BLM

CHECKED BSB

℄ CONSTRUCTION U.S. 62

STA 114+50.00, 29.20' LT
DRIVE PIPE
12" NE 877.50

EX R/W

EX SH

PROP. 12" TYPE D

4:1

℄=877.4

EX. 15" VCP

36" TYPE C

114+50.00
879.57

ˆEX AT&T FO
(DIRECT BURIED)

STA 114+24.00, 29.20' LT
DRIVE PIPE
12" SW 877.30

STA 133+88.00, 29.15' LT
DRIVE PIPE
12" NE 877.20

EX R/W

EX SH

PROP. 12" TYPE D

EX. 12" TYPE D

EX. 15" VCP

36" TYPE C

114+00.00
879.40

ˆEX AT&T FO
(DIRECT BURIED)

STA 113+54.35, 32.28' LT
12" NE 876.74

STA 113+76.96, 31.94' LT
12" SW 877.05

STA 113+54.35, 32.28' LT
(TBR) EX. DRIVE PIPE
12" RCP NE 876.74

STA 113+76.96, 31.94' LT
EX. DRIVE PIPE (TBR)
12" RCP SW 877.05

TMP

EX R/W

EX SH

4:1

PROP. 12" TYPE D
EX. 12" TYPE D (TBR)

℄=876.6

EX. 15" VCP

36" TYPE C

113+50.00
879.28

GRADE DOWN FROM END
OF TYPE D TO D-107

ˆEX AT&T FO
(DIRECT BURIED)

STA 113+24.16, 28.31' LT
EX. CB, GRATE ELEV 876.03' (TBR)
15" VCP NE 869.63
15" VCP SW 869.63
4" CPP SW 872.98, 4" CPP NW 874.18 (TO REMAIN)

EX R/W

D-107A

D-107

EX SH

℄=876.5

4" CPP

6'-15" TYPE C
@ 1.67%

113+00.00
879.17

ˆEX AT&T FO
(DIRECT BURIED)

FOR STORM SEWER PROFILES, SEE SHEETS 72-74.
FOR PLANS, SEE SHEETS 19-29.

900 890 880 870 860

120 100 80 60 40 20 0 20 40 60 80 100 120

CROSS SECTIONS U.S. 62
STA. 113+00.00 TO STA. 114+50.00

FRA-62-1.64

SEEDING

END WIDTH	SQ. YDS.

℄ CONSTRUCTION U.S. 62

EX R/W — EX SH

℄=876.3
4'-0"
EX. 15" VCP
36" TYPE C
116+50.00
879.81
EX AT&T FO (DIRECT BURIED)

HIGH POINT
116+08.00, 879.3

℄=876.8
4'-0"
EX. 15" VCP
36" TYPE C
116+00.00
879.81
EX AT&T FO (DIRECT BURIED)

℄=878.5
EX. 15" VCP
36" TYPE C
115+50.00
879.79
EX AT&T FO (DIRECT BURIED)

STA 115+00.00, 28.90' LT
DRIVE PIPE
12" SW 877.90

PROP. 12" TYPE D
4:1
℄=877.9
EX. 12" TYPE D
EX. 15" VCP
36" TYPE C
115+00.00
879.71
EX AT&T FO (DIRECT BURIED)

FOR STORM SEWER PROFILES, SEE SHEETS 72-74.
FOR PLANS, SEE SHEETS 19-29.

900 890 880 870 860

120 100 80 60 40 20 0 20 40 60 80 100 120

END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED BLM
CHECKED BSB

CROSS SECTIONS U.S. 62
STA. 115+00.00 TO STA. 116+50.00

FRA-62-1.64

45
84

SEEDING	
END WIDTH	SQ. YDS.

END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED BLM

CHECKED BSB

℄ CONSTRUCTION U.S. 62

STA 118+30.00, 28.60′ LT
DRIVE PIPE
12″ NE 877.15

STA 118+65.00, 28.30′ LT
DRIVE PIPE
12″ SW 877.25

EX R/W

EX SH

4′-0″

4:1

℄=876.7

PROP. 12″ TYPE D

EX. 15″ VCP

36″ TYPE C

118+50.00
880.18

EX AT&T FO
(DIRECT BURIED)

FLOWS TO CB AT 118+20.00

EX R/W

4:1

℄=877.0

D-125

EX SH

EX. 12″ TYPE D (TBR) HIGH POINT
118+00.00, 877.7

EX. 15″ VCP

36″ TYPE C

118+00.00
880.09

PROP. 135′-12″
TYPE C @ 1.00%

EX AT&T FO
(DIRECT BURIED)

EX R/W

4:1

℄=876.5

EX SH

4′-0″

℄=876.3

EX. 15″ VCP

36″ TYPE C

117+50.00
880.03

PROP. 12″
TYPE C

EX AT&T FO
(DIRECT BURIED)

STA 116+85.43, 29.53′ LT
(TBR) EX. CB, GRATE ELEV 876.18′
15″ VCP NE 870.43
12″ RCP SE 871.53
15″ VCP SW 870.38
(TO REMAIN) 10″ VCP NW 872.43

STA 116+85.44, 39.59′ RT
EX. CB, GRATE ELEV 876.54′ (TBR)
3″ PVC NE 875.94

EX R/W

D-108

D-124

EX SH

4′-0″

℄=876.2

EX. 12″ RCP

EX. 10″ VCP

67′-15″ TYPE B @ 1.04%

117+00.00
879.78

PROP. 135′-12″
TYPE C @ 1.00%

EX AT&T FO
(DIRECT BURIED)

FOR STORM SEWER PROFILES, SEE SHEETS 72-74.
FOR PLANS, SEE SHEETS 19-29.

900 890 880 870 860

120 100 80 60 40 20 0 20 40 60 80 100 120

CROSS SECTIONS U.S. 62
STA. 117+00.00 TO STA. 118+50.00

FRA-62-1.64

46
84

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SEEDING	
END WIDTH	SQ. YDS.

℄ CONSTRUCTION U.S. 62

EX R/W — 4:1 — ℄=876.5 — EX. 15" VCP — 36" TYPE C

120+50.00
880.05

4'-0" — ℄=877.1 — EX SH

^EX AT&T FO
(DIRECT BURIED)

STA 120+10.00, 27.10' LT
DRIVE PIPE
12" NE 876.70

STA 120+45.00, 27.10' LT
DRIVE PIPE
12" SW 876.60

EX R/W — EX GEN — EX SH — 4:1 — ℄=877.0 — PROP. 12" TYPE D — EX. 15" VCP — 36" TYPE C

120+00.00
880.19

EX. 12" TYPE D

^EX AT&T FO
(DIRECT BURIED)

HIGH POINT
119+75.00, 878.7

EX R/W — 4:1 — ℄=877.5 — EX. 15" VCP — 36" TYPE C

119+50.00
880.31

HIGH POINT
119+67.00, 878.3

4'-0" — ℄=878.1 — EX SH

^EX AT&T FO
(DIRECT BURIED)

EX R/W — 4:1 — ℄=877.4 — EX. 15" VCP — 36" TYPE C

119+00.00
880.32

4'-0" — 4:1 — 4:1 — ℄=877.3 — EX SH

^EX AT&T FO
(DIRECT BURIED)

FOR STORM SEWER PROFILES, SEE SHEETS 72-74.
FOR PLANS, SEE SHEETS 19-29.

900 890 880 870 860

120 100 80 60 40 20 0 20 40 60 80 100 120

END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED BLM
CHECKED BSB

CROSS SECTIONS U.S. 62
STA. 119+00.00 TO STA. 120+50.00

FRA-62-1.64

47
84

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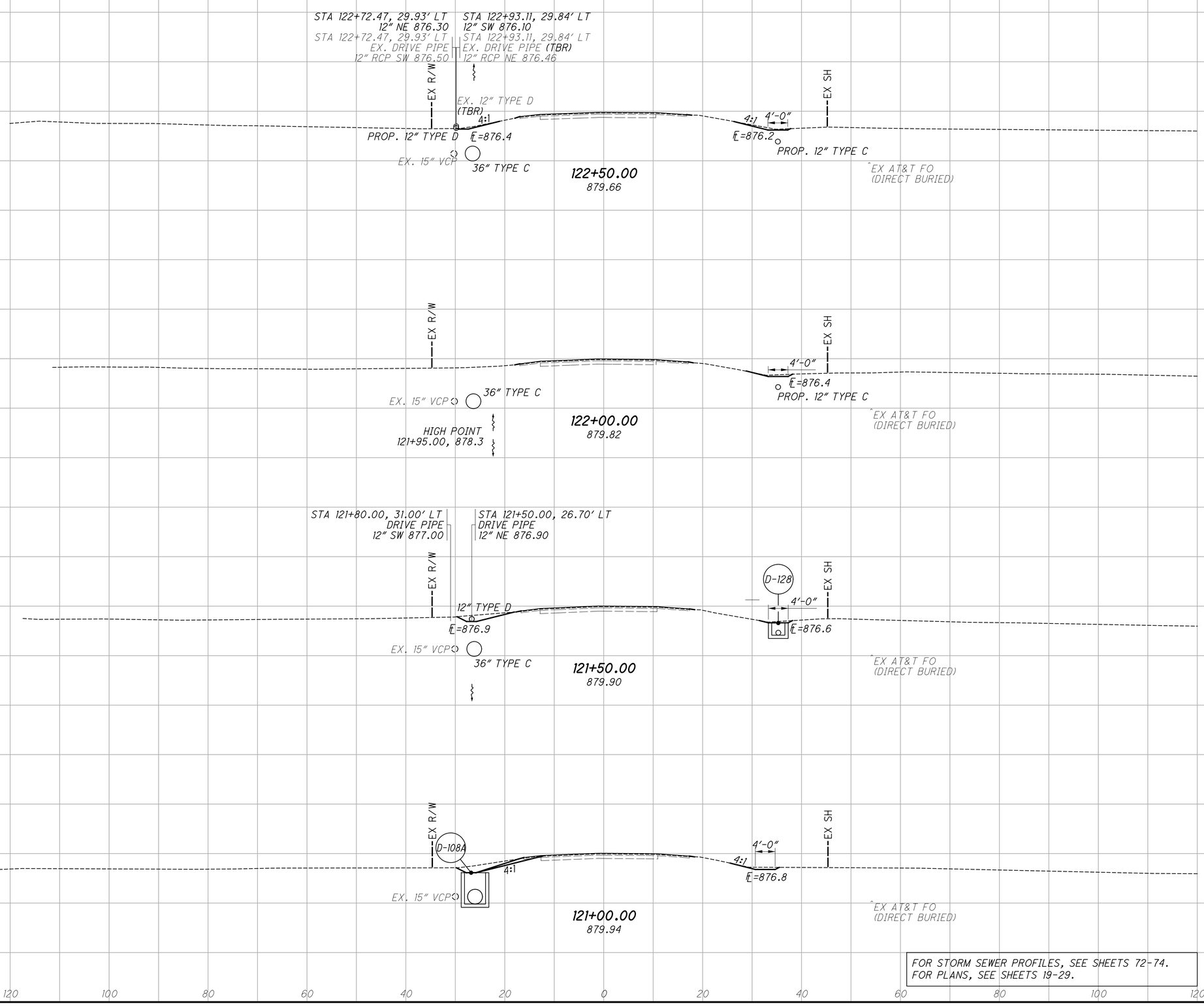
SEEDING	
END WIDTH	SQ. YDS.

END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED BLM

CHECKED BSB

℄ CONSTRUCTION U.S. 62



FOR STORM SEWER PROFILES, SEE SHEETS 72-74.
FOR PLANS, SEE SHEETS 19-29.

CROSS SECTIONS U.S. 62
STA. 121+00.00 TO STA. 122+50.00

FRA-62-1.64

SEEDING

END WIDTH	SQ. YDS.

℄ CONSTRUCTION U.S. 62

HIGH POINT
124+52.00, 878.5

EX R/W

EX SH

4:1 E =876.1

4'-0"

EX. 15" VCP

36" TYPE C

PROP. 12" TYPE C

EX AT&T FO
(DIRECT BURIED)

124+50.00
879.28

EX R/W

4:1

E =876.3

4:1 E =876.2

4'-0"

EX SH

EX. 15" VCP

36" TYPE C

PROP. 12" TYPE C

EX AT&T FO
(DIRECT BURIED)

124+00.00
879.40

STA 123+40.00, 25.80' LT
DRIVE PIPE
12" NE 876.00

STA 123+70.00, 25.80' LT
DRIVE PIPE
12" SW 876.10

EX R/W

D-109

PROP. 12" TYPE D

4:1 E =876.4

4'-0"

EX SH

EX. 15" VCP

PROP. 12" TYPE C

EX AT&T FO
(DIRECT BURIED)

123+50.00
879.48

EX R/W

D-127

EX SH

4:1

E =876.0

E =876.5

EX. 15" VCP

36" TYPE C

EX AT&T FO
(DIRECT BURIED)

123+00.00
879.55

FOR STORM SEWER PROFILES, SEE SHEETS 72-74.
FOR PLANS, SEE SHEETS 19-29.

900 890 880 870 860

120 100 80 60 40 20 0 20 40 60 80 100 120

END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED BLM
CHECKED BSB

CROSS SECTIONS U.S. 62
STA. 123+00.00 TO STA. 124+50.00

FRA-62-1.64

SEEDING	
END WIDTH	SQ. YDS.

END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED BLM

CHECKED BSB

℄ CONSTRUCTION U.S. 62

900 890 880 870 860

EX R/W — EX SH

EX. 15" VCP — 36" TYPE C

126+50.00
878.87

^EX AT&T FO
(DIRECT BURIED)

D-110 — D-126

℄=876.6

57'-15" TYPE B @ 0.35%

126+00.00
878.94

4:1 ℄=875.9
4'-0"
PROP. 12" TYPE C

125+50.00
879.01

4:1 ℄=876.0
4'-0"
PROP. 12" TYPE C

125+00.00
879.14

FOR STORM SEWER PROFILES, SEE SHEETS 72-74.
FOR PLANS, SEE SHEETS 19-29.

120 100 80 60 40 20 0 20 40 60 80 100 120

CROSS SECTIONS U.S. 62
STA. 125+00.00 TO STA. 126+50.00

FRA-62-1.64

50
84

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SEEDING	
END WIDTH	SQ. YDS.

℄ CONSTRUCTION U.S. 62

STA 128+68.83, 31.59' LT
(TBR) EX. CB, GRATE ELEV 875.49'
12" VCP NE 871.39
15" VCP SE 871.34
15" VCP SW 871.19
(TO REMAIN) 12" VCP NW 871.39

STA 128+70.16, 41.16' RT
(TBR) EX. CB, GRATE ELEV 874.94'
8" VCP SE 872.09
10" VCP SW 872.14
15" VCP NW 872.04
10" VCP NE 872.14

D-111 D-129 D-130 EX SH TMP

℄=874.9 ℄=875.0 ℄=875.1 4:1

EX. 12" VCP
EX. 15" VCP(TBR)
EX. 8" VCP (TO REMAIN)
69'-18" TYPE B @ 0.31%
PROP. 89'-15" TYPE C @ 0.81%
EX. 15" VCP
36" TYPE C
PROP. 89'-15" TYPE C @ 0.81%
^EX AT&T FO (DIRECT BURIED)

128+50.00
878.88

128+00.00
878.80

127+50.00
878.80

127+00.00
878.85

FOR STORM SEWER PROFILES, SEE SHEETS 72-74.
FOR PLANS, SEE SHEETS 19-29.

END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED BLM
CHECKED BSB

CROSS SECTIONS U.S. 62
STA. 127+00.00 TO STA. 128+50.00

FRA-62-1.64

51
84

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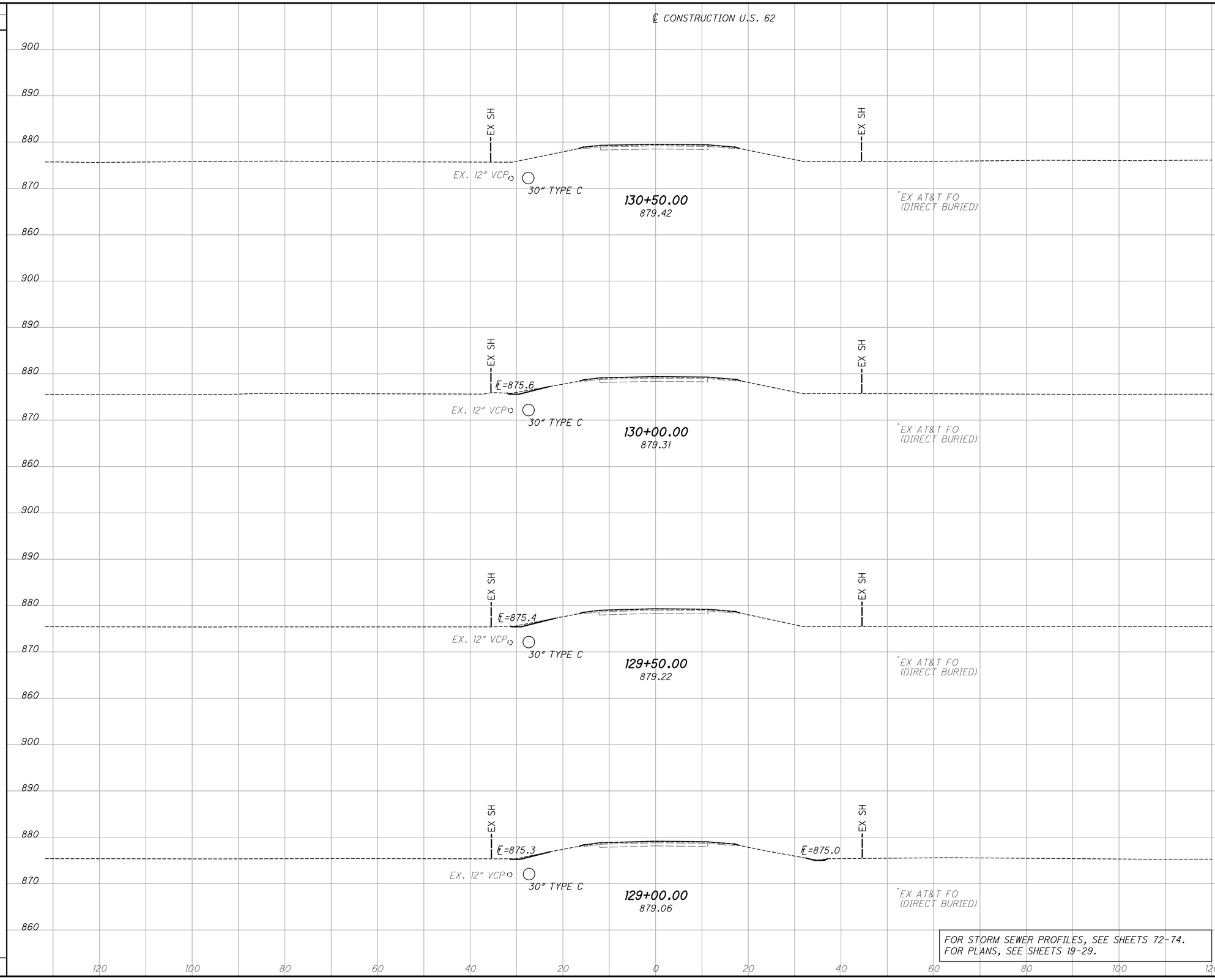
SEEDING	
END WIDTH	SQ. YDS.

END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED BLM
CHECKED BSB

℄ CONSTRUCTION U.S. 62



FOR STORM SEWER PROFILES, SEE SHEETS 72-74.
FOR PLANS, SEE SHEETS 19-29.

CROSS SECTIONS U.S. 62
STA. 129+00.00 TO STA. 130+50.00

FRA-62-1.64

52
84

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SEEDING	
END WIDTH	SQ. YDS.

END AREA	
CUT	FILL

VOLUME	
CUT	FILL

CALCULATED BLM

CHECKED BSB

℄ CONSTRUCTION U.S. 62

900 890 880 870 860

EX SH — EX SH

℄=877.2

EX. 12" VCP — 30" TYPE C

132+50.00
880.68

^EX AT&T FO
(DIRECT BURIED)

EX SH — EX SH

℄=876.6 4:1

EX. 12" VCP — 30" TYPE C

132+00.00
880.26

^EX AT&T FO
(DIRECT BURIED)

EX SH — EX SH

D-112

℄=876.2 4:1

EX. 12" VCP

131+50.00
879.85

^EX AT&T FO
(DIRECT BURIED)

EX SH — EX SH

EX. 12" VCP — 30" TYPE C

131+00.00
879.56

^EX AT&T FO
(DIRECT BURIED)

120 100 80 60 40 20 0 20 40 60 80 100 120

FOR STORM SEWER PROFILES, SEE SHEETS 72-74.
FOR PLANS, SEE SHEETS 19-29.

CROSS SECTIONS U.S. 62
STA. 131+00.00 TO STA. 132+50.00

FRA-62-1.64

SEEDING

END WIDTH	SQ. YDS.

℄ CONSTRUCTION U.S. 62

EX SH — D-113 — EX SH — D-131 — EX SH

EX. 12" VCP

134+50.00
881.27

60'-15" TYPE B
@ 0.48%

^EX AT&T FO
(DIRECT BURIED)

EX SH — EX SH

℄=877.8

EX. 12" VCP

30" TYPE C

134+00.00
881.21

^EX AT&T FO
(DIRECT BURIED)

EX SH — EX SH

4:1

℄=877.6

EX. 12" VCP

30" TYPE C

133+50.00
881.10

^EX AT&T FO
(DIRECT BURIED)

STA 132+82.00, 30.04' LT
DRIVE PIPE
12" NE 877.34

STA 133+22.00, 30.07' LT
DRIVE PIPE
12" SW 877.42

EX SH — EX SH

EX. 12" CMP (TBR)
PROP. 12" TYPE D

EX. 12" VCP

30" TYPE C

133+00.00
880.95

^EX AT&T FO
(DIRECT BURIED)

FOR STORM SEWER PROFILES, SEE SHEETS 72-74.
FOR PLANS, SEE SHEETS 19-29.

900 890 880 870 860

120 100 80 60 40 20 0 20 40 60 80 100 120

END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED BLM
CHECKED BSB

CROSS SECTIONS U.S. 62
STA. 133+00.00 TO STA. 134+50.00

FRA-62-1.64

54
84

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SEEDING	
END WIDTH	SQ. YDS.

END AREA	
CUT	FILL

VOLUME	
CUT	FILL

CALCULATED BLM

CHECKED BSB

℄ CONSTRUCTION U.S. 62

900 890 880 870 860

EX SH — EX SH

EX. 12" VCP — 30" TYPE C

136+50.00
881.70

^EX AT&T FO
(DIRECT BURIED)

136+00.00
881.56

D-132

135+50.00
881.45

PROP. 15" TYPE C

135+00.00
881.37

FOR STORM SEWER PROFILES, SEE SHEETS 72-74.
FOR PLANS, SEE SHEETS 19-29.

120 100 80 60 40 20 0 20 40 60 80 100 120

CROSS SECTIONS U.S. 62
STA. 135+00.00 TO STA. 136+50.00

FRA-62-1.64

55
84

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SEEDING	
END WIDTH	SQ. YDS.

℄ CONSTRUCTION U.S. 62

EX SH

EX. 12" VCP

30" TYPE C

138+50.00
881.93

^EX AT&T FO
(DIRECT BURIED)

138+00.00
881.89

137+50.00
881.87

137+00.00
881.81

FOR STORM SEWER PROFILES, SEE SHEETS 72-74.
FOR PLANS, SEE SHEETS 19-29.

900 890 880 870 860

120 100 80 60 40 20 0 20 40 60 80 100 120

END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED BLM
CHECKED BSB

CROSS SECTIONS U.S. 62
STA. 137+00.00 TO STA. 138+50.00

FRA-62-1.64

SEEDING	
END WIDTH	SQ. YDS.

END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED BLM

CHECKED BSB

℄ CONSTRUCTION U.S. 62

EX SH

EX. 12" VCP

30" TYPE C

140+50.00
881.53

^EX AT&T FO
(DIRECT BURIED)

140+00.00
881.52

STA 139+73.84, 29.44' LT.
(TBR) EX. CB, GRATE ELEV 877.87'
12" VCP NE 873.17
12" VCP SW 873.12
(TO REMAIN) 10" VCP NW 873.22

D-115

EX. 10" VCP

139+50.00
881.59

139+00.00
881.79

FOR STORM SEWER PROFILES, SEE SHEETS 72-74.
FOR PLANS, SEE SHEETS 19-29.

900 890 880 870 860

120 100 80 60 40 20 0 20 40 60 80 100 120

CROSS SECTIONS U.S. 62
STA. 139+00.00 TO STA. 140+50.00

FRA-62-1.64

57
84

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SEEDING	
END WIDTH	SQ. YDS.

℄ CONSTRUCTION U.S. 62

EX SH — EX SH

EX. 12" VCP
30" TYPE C

142+50.00
881.52

ˆEX AT&T FO
(DIRECT BURIED)

HIGH POINT
142+05.00, 880.3

EX SH — EX SH

EX. 12" VCP
30" TYPE C

142+00.00
881.53

ˆEX AT&T FO
(DIRECT BURIED)

EX SH — EX SH

EX. 12" VCP
30" TYPE C

141+50.00
881.53

ˆEX AT&T FO
(DIRECT BURIED)

EX SH — EX SH

EX. 12" VCP
30" TYPE C

141+00.00
881.50

ˆEX AT&T FO
(DIRECT BURIED)

FOR STORM SEWER PROFILES, SEE SHEETS 72-74.
FOR PLANS, SEE SHEETS 19-29.

900 890 880 870 860

120 100 80 60 40 20 0 20 40 60 80 100 120

END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED BLM
CHECKED BSB

CROSS SECTIONS U.S. 62
STA. 141+00.00 TO STA. 142+50.00

FRA-62-1.64

58
84

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SEEDING	
END WIDTH	SQ. YDS.

℄ CONSTRUCTION U.S. 62

900 890 880 870 860

EX SH — EX SH

EX. 12" VCP
30" TYPE C

144+50.00
881.01

HIGH POINT
144+21.48, 878.6

^EX AT&T FO
(DIRECT BURIED)

EX SH — EX SH

℄=878.2

EX. 12" VCP
30" TYPE C

144+00.00
881.08

^EX AT&T FO
(DIRECT BURIED)

STA 143+52.96, 27.36' LT
EX. CB, GRATE ELEV 877.64' (TBR)
10" VCP SE 876.44

EX SH — EX SH

D-117

EX. 12" VCP

143+50.00
881.26

EX. 10" VCP (TBR)

^EX AT&T FO
(DIRECT BURIED)

EX SH — EX SH

EX. 12" VCP
30" TYPE C

143+00.00
881.37

^EX AT&T FO
(DIRECT BURIED)

FOR STORM SEWER PROFILES, SEE SHEETS 72-74.
FOR PLANS, SEE SHEETS 19-29.

120 100 80 60 40 20 0 20 40 60 80 100 120

END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED BLM
CHECKED BSB

CROSS SECTIONS U.S. 62
STA. 143+00.00 TO STA. 144+50.00

FRA-62-1.64

59
84

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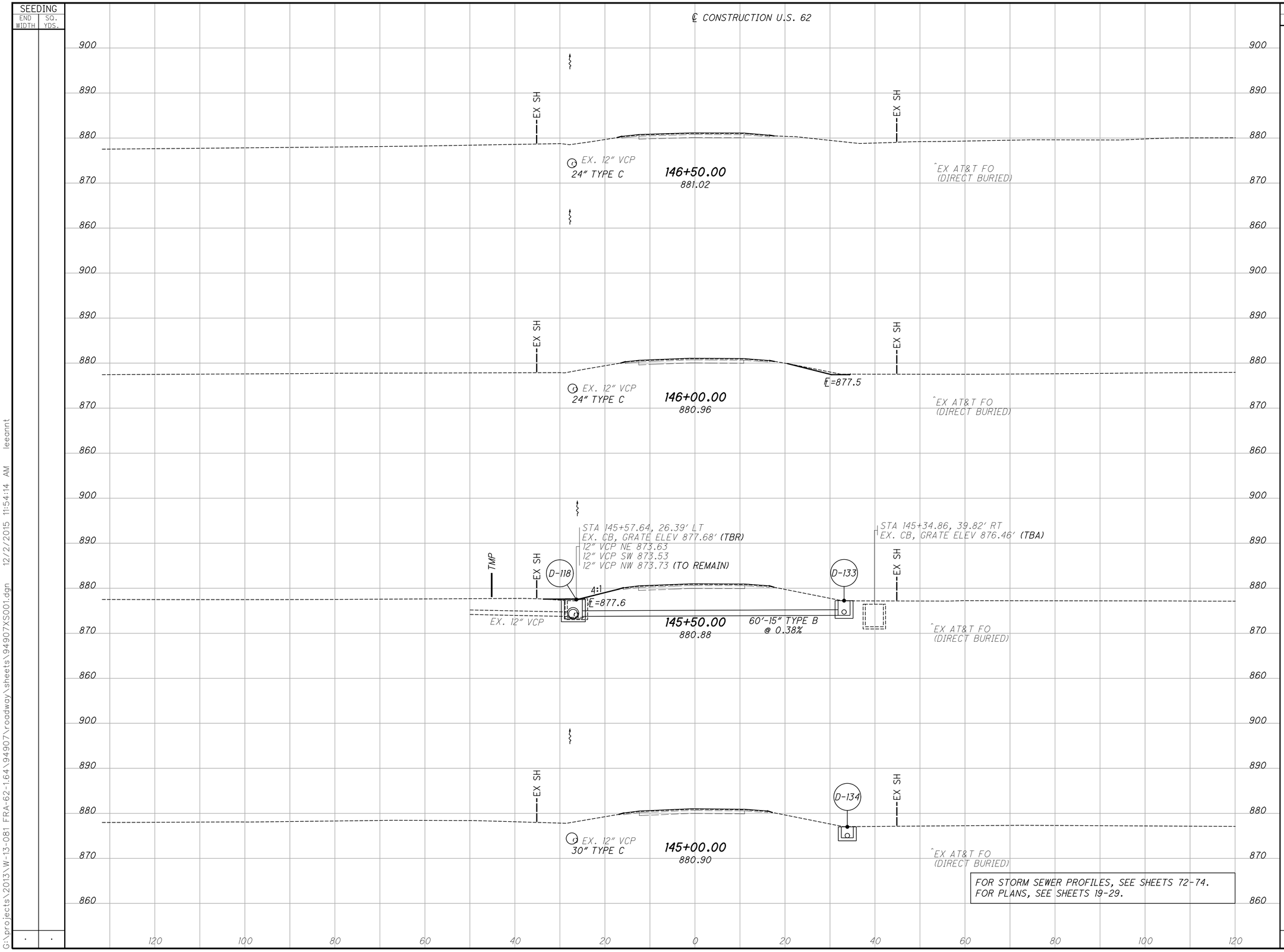
SEEDING	
END WIDTH	SQ. YDS.

END AREA	
CUT	FILL

VOLUME	
CUT	FILL

CALCULATED BLM

CHECKED BSB



FOR STORM SEWER PROFILES, SEE SHEETS 72-74.
FOR PLANS, SEE SHEETS 19-29.

CROSS SECTIONS U.S. 62
STA. 145+00.00 TO STA. 146+50.00

FRA-62-1.64

60
84

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SEEDING	
END WIDTH	SQ. YDS.

℄ CONSTRUCTION U.S. 62

EX SH — D-119 — ℄=878.1 — EX SH — D-135 — ℄=878.0

EX. 12" VCP

148+50.00
881.34

61'-15" TYPE B
@ 0.51%

^EX AT&T FO
(DIRECT BURIED)

EX SH — ℄=878.2 — EX SH

EX. 12" VCP
24" TYPE C

148+00.00
881.29

^EX AT&T FO
(DIRECT BURIED)

EX SH — ℄=878.4 — EX SH

EX. 12" VCP
24" TYPE C

147+50.00
881.25

^EX AT&T FO
(DIRECT BURIED)

EX SH — ℄=878.4 — EX SH

EX. 12" VCP
24" TYPE C

147+00.00
881.11

^EX AT&T FO
(DIRECT BURIED)

FOR STORM SEWER PROFILES, SEE SHEETS 72-74.
FOR PLANS, SEE SHEETS 19-29.

900 890 880 870 860

120 100 80 60 40 20 0 20 40 60 80 100 120

END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED BLM
CHECKED BSB

CROSS SECTIONS U.S. 62
STA. 147+00.00 TO STA. 148+50.00

FRA-62-1.64

61
84

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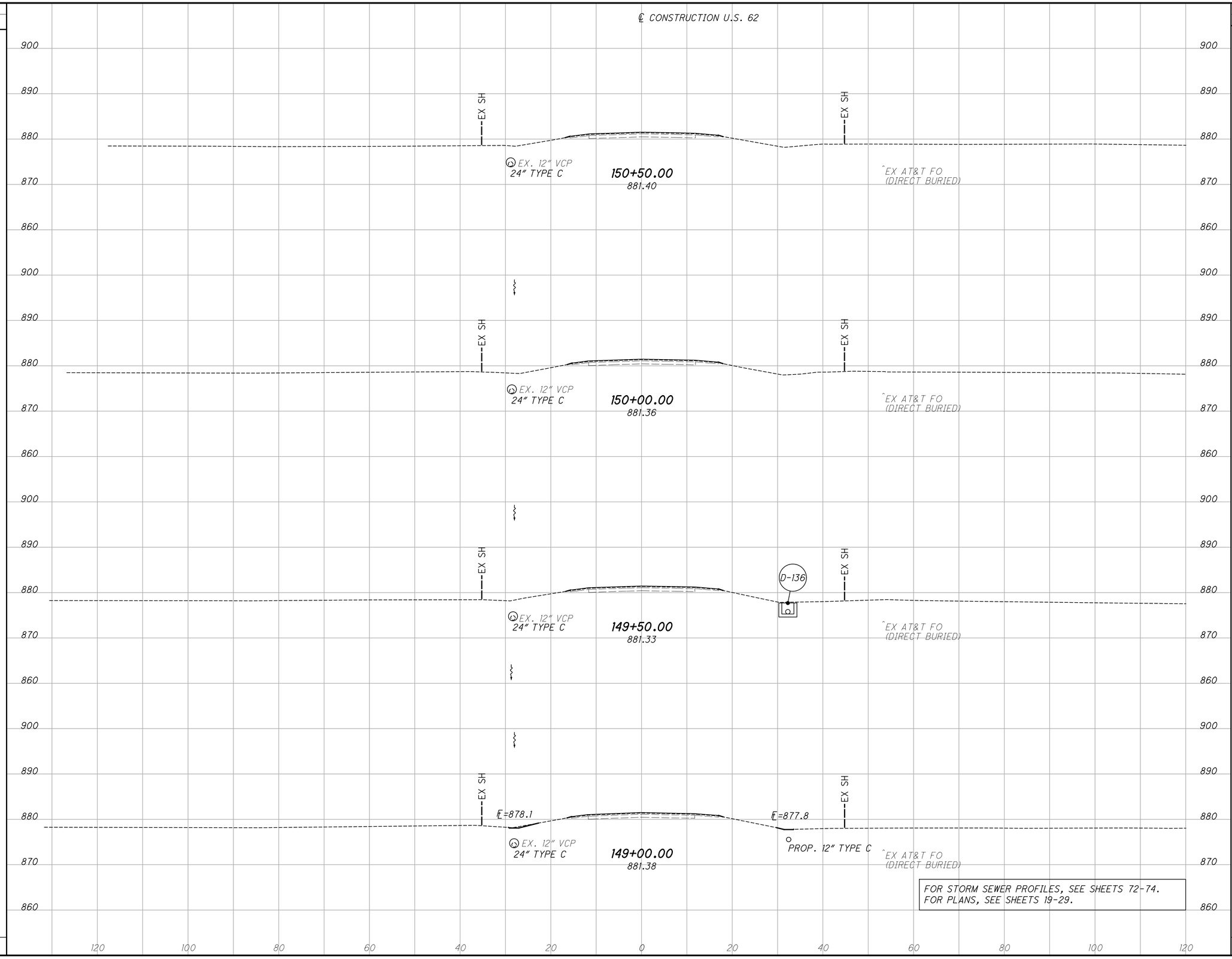
SEEDING	
END WIDTH	SQ. YDS.



FOR STORM SEWER PROFILES, SEE SHEETS 72-74.
FOR PLANS, SEE SHEETS 19-29.

END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED BLM
CHECKED BSB

CROSS SECTIONS U.S. 62
STA. 149+00.00 TO STA. 150+50.00

FRA-62-1.64

62
84

SEEDING	
END WIDTH	SQ. YDS.

END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED BLM

CHECKED BSB

℄ CONSTRUCTION U.S. 62

900 890 880 870 860

EX SH

℄=877.6

4:1

EX. 10" VCP
18" TYPE C

152+50.00
881.39

STA 152+26.50, 37.69' RT
EX. CB, GRATE ELEV 876.63' (TBR)
12" CPP SE 874.18

12" CPP (TO BE PLUGGED AND FILLED)

EX AT&T FO
(DIRECT BURIED)

STA 152+24.91, 29.77' LT
EX. CB, GRATE ELEV 878.12' (TBR)
10" VCP NE 874.22
12" VCP SW 874.12
10" VCP NW 874.52 (TO REMAIN)

D-121

℄=878.0

EX. 10" VCP

152+00.00
881.32

PROP. 67'-15"
TYPE B @ 0.36%

D-137

EX AT&T FO
(DIRECT BURIED)

℄=878.3

EX. 12" VCP
24" TYPE C

151+50.00
881.31

℄=877.8

EX AT&T FO
(DIRECT BURIED)

D-120

EX. 12" VCP

151+00.00
881.31

EX AT&T FO
(DIRECT BURIED)

120 100 80 60 40 20 0 20 40 60 80 100 120

FOR STORM SEWER PROFILES, SEE SHEETS 72-74.
FOR PLANS, SEE SHEETS 19-29.

CROSS SECTIONS U.S. 62
STA. 151+00.00 TO STA. 152+50.00

FRA-62-1.64

63
84

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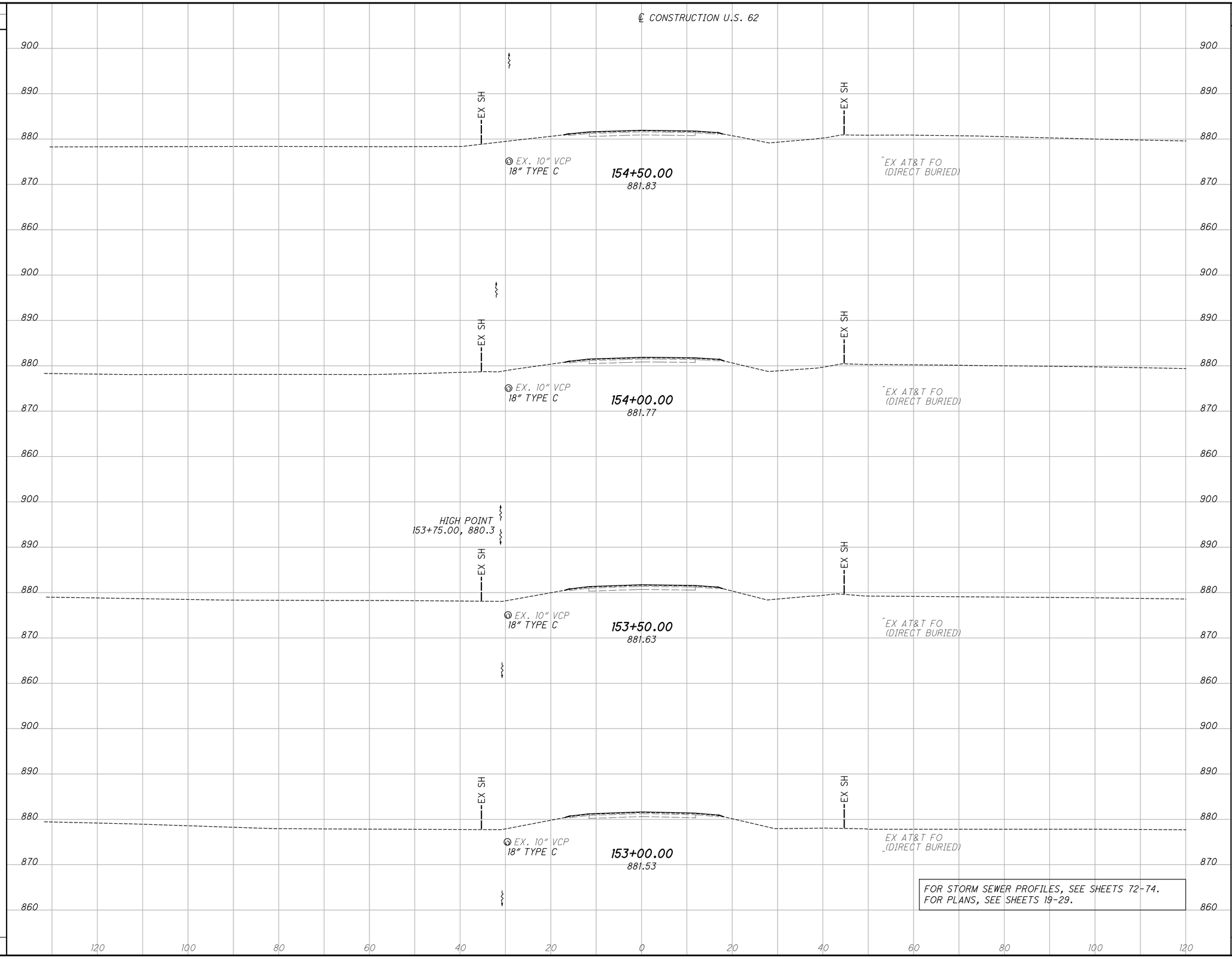
SEEDING	
END WIDTH	SQ. YDS.



FOR STORM SEWER PROFILES, SEE SHEETS 72-74.
FOR PLANS, SEE SHEETS 19-29.

END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED BLM
CHECKED BSB

CROSS SECTIONS U.S. 62
STA. 153+00.00 TO STA. 154+50.00

FRA-62-1.64

64
84

SEEDING	
END WIDTH	SQ. YDS.

END AREA	
CUT	FILL

VOLUME	
CUT	FILL

CALCULATED BLM

CHECKED BSB

℄ CONSTRUCTION U.S. 62

900 890 880 870 860

EX SH

882.24
156+50.00
882.11

D-123

STA 155+99.46, 28.88' LT
EX. CB, GRATE ELEV 878.28' (TBR)
10" VCP NE 875.18 (TO REMAIN)
10" VCP SW 874.98
10" VCP NW 875.18

TMP

EX SH

F=877.6

4:1

EX. 10" VCP

156+00.00
882.10

EX SH

TMP

EX SH

F=878.6

EX. 10" VCP
12" TYPE C

155+50.00
882.03

EX SH

D-122

EX SH

D-138

4:1 F=878.7

EX. 10" VCP

60'-15" TYPE B
@ 2.22%

155+00.00
881.93

EX SH

FOR STORM SEWER PROFILES, SEE SHEETS 72-74.
FOR PLANS, SEE SHEETS 19-29.

120 100 80 60 40 20 0 20 40 60 80 100 120

CROSS SECTIONS U.S. 62
STA. 155+00.00 TO STA. 156+50.00

FRA-62-1.64

65
84

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SEEDING	
END WIDTH	SQ. YDS.

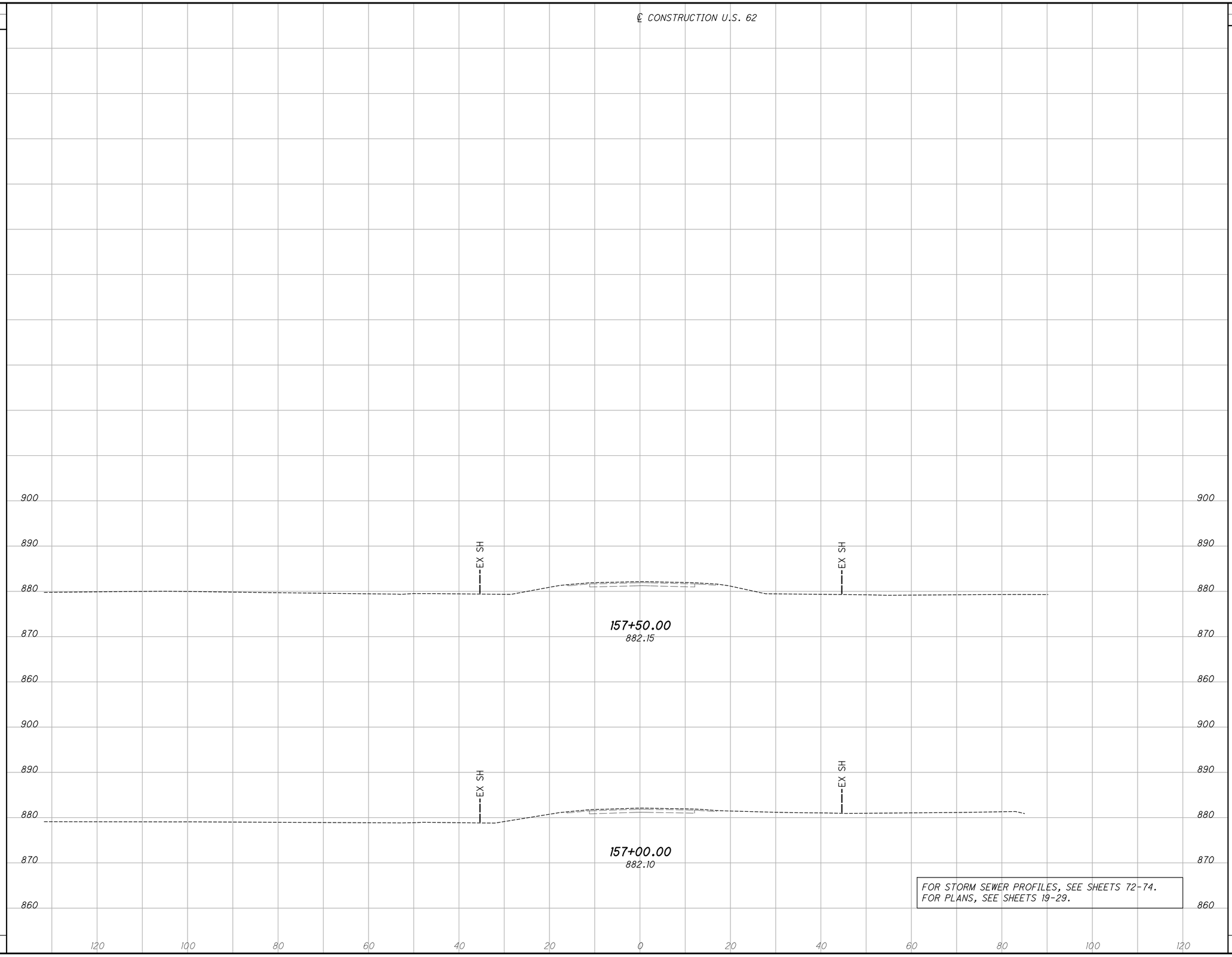
℄ CONSTRUCTION U.S. 62

END AREA	
CUT	FILL

VOLUME	
CUT	FILL

CALCULATED BLM

CHECKED BSB

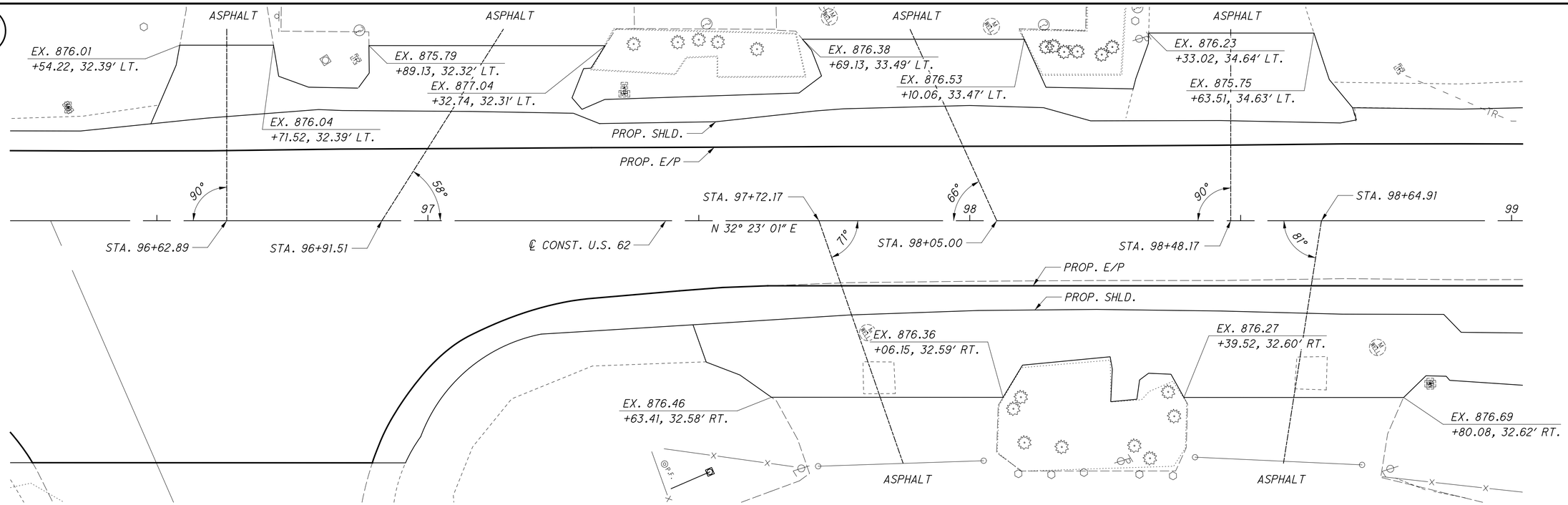


FOR STORM SEWER PROFILES, SEE SHEETS 72-74.
FOR PLANS, SEE SHEETS 19-29.

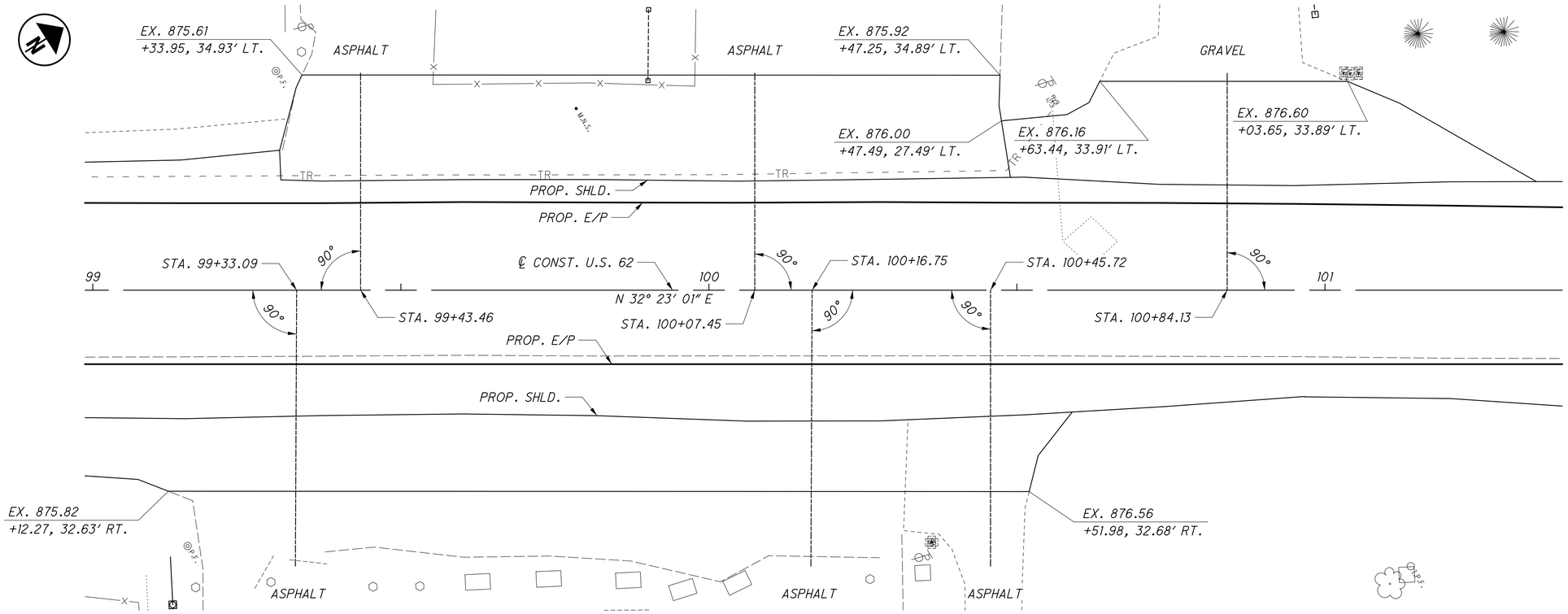
CROSS SECTIONS U.S. 62
STA. 157+00.00 TO STA. 157+50.00

FRA-62-1.64

66
84



COMM. DRIVEWAY DETAIL U.S. 62 - STA. 96+62.89, STA. 96+91.51, STA. 97+72.17, STA. 98+05.00, STA. 98+48.17 & STA. 98+64.91



COMM. DRIVEWAY DETAIL U.S. 62 - STA. 99+33.09, STA. 99+43.46, STA. 100+07.45 & STA. 100+16.75

RES. DRIVEWAY DETAIL U.S. 62 - STA. 100+45.72 & STA. 100+84.13

HORIZONTAL SCALE IN FEET
0 5 10 20

CALCULATED BLM
CHECKED BSB

REVISION NO. DATE

DRIVEWAY DETAILS

FRA-62-1.64

67
84

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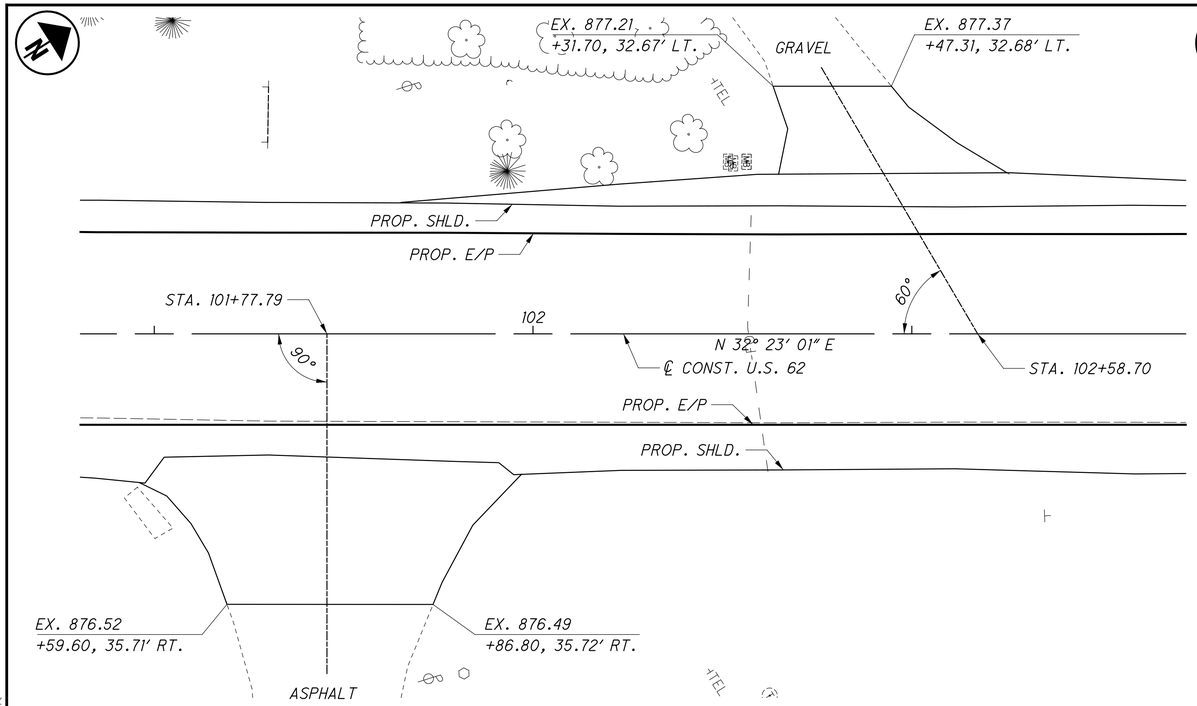
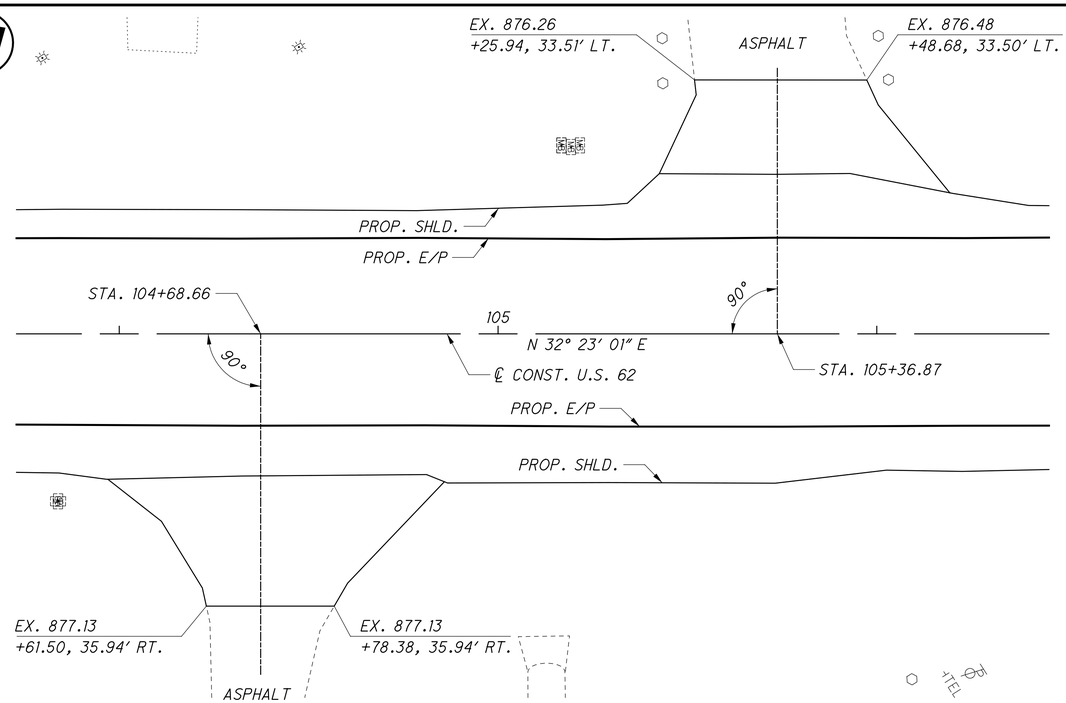
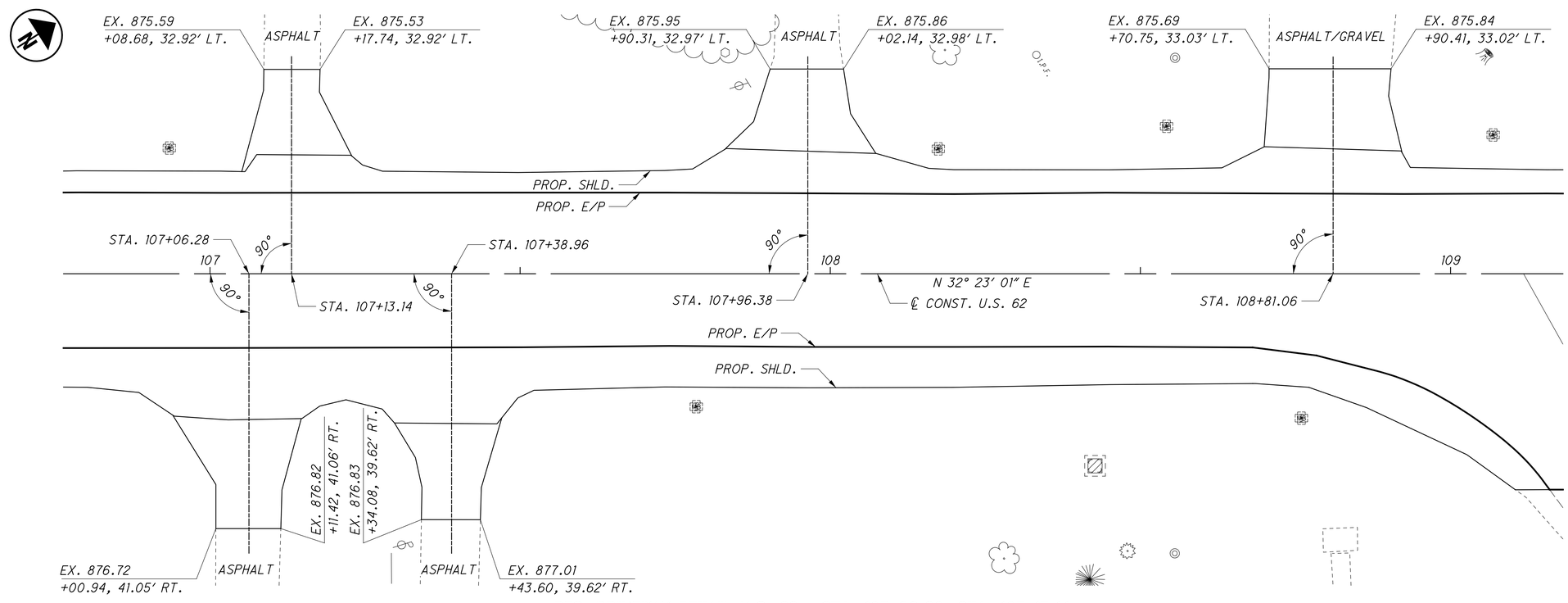


RES. DRIVEWAY DETAIL U.S. 62 - STA. 101+77.79 & STA. 102+58.70



RES. DRIVEWAY DETAIL U.S. 62 - STA. 104+68.66
COMM. DRIVEWAY DETAIL U.S. 62, STA. 105+36.87



RES. DRIVEWAY DETAIL U.S. 62 - STA. 107+06.28, STA. 107+13.14,
STA. 107+38.96, STA. 107+96.38 & STA. 108+81.06

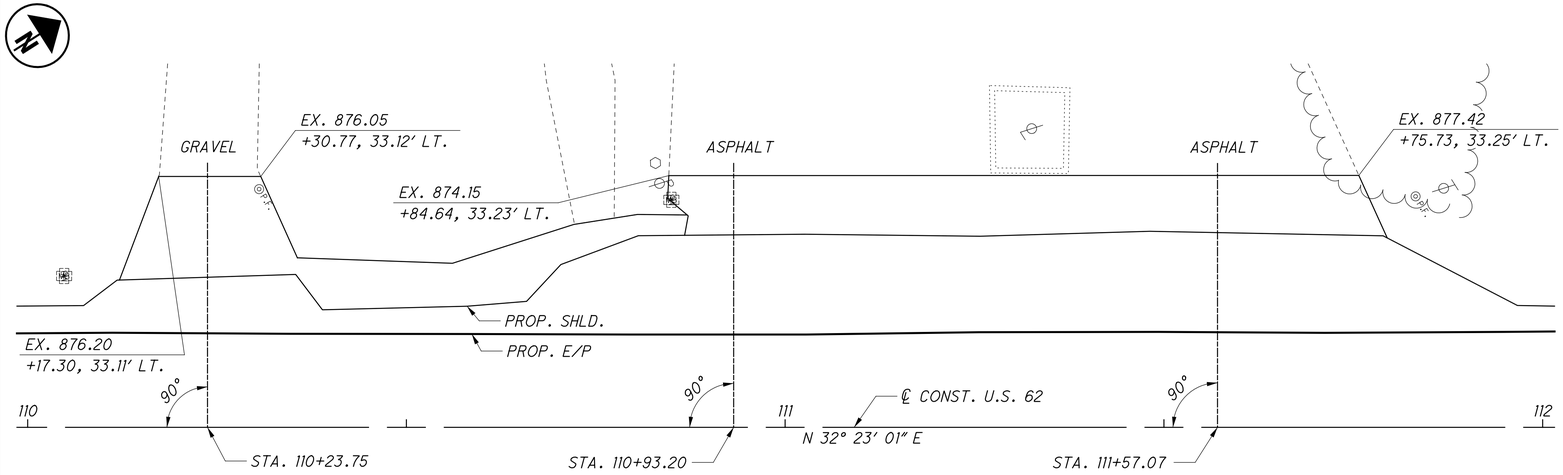
HORIZONTAL SCALE IN FEET
0 5 10 20

CALCULATED BLM
CHECKED BSB

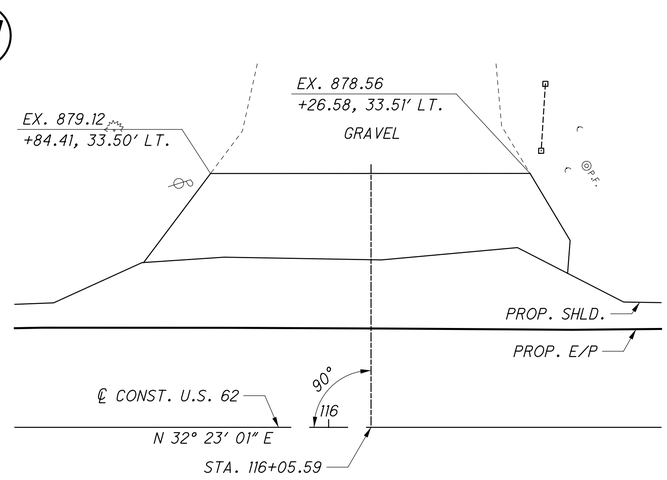
REVISION NO. DATE

DRIVEWAY DETAILS

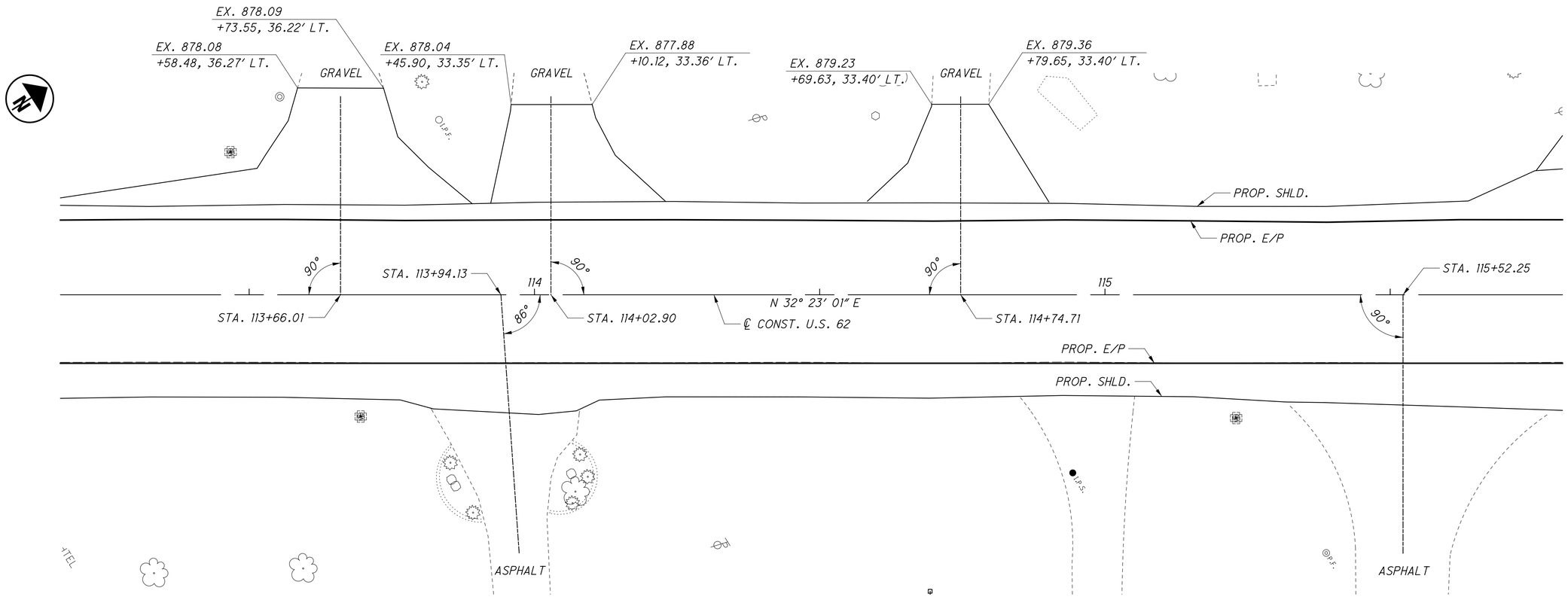
FRA-62-1.64



RES. DRIVEWAY DETAIL U.S. 62 - STA. 110+23.75, 110+93.20 & STA. 111+57.07



COMM. DRIVEWAY DETAIL U.S. 62 - STA. 116+05.59



RES. DRIVEWAY DETAIL U.S. 62 - STA. 113+66.01, STA. 113+94.13,
STA. 114+02.90, STA. 114+74.71 & STA. 115+52.25

HORIZONTAL SCALE IN FEET
0 5 10 20

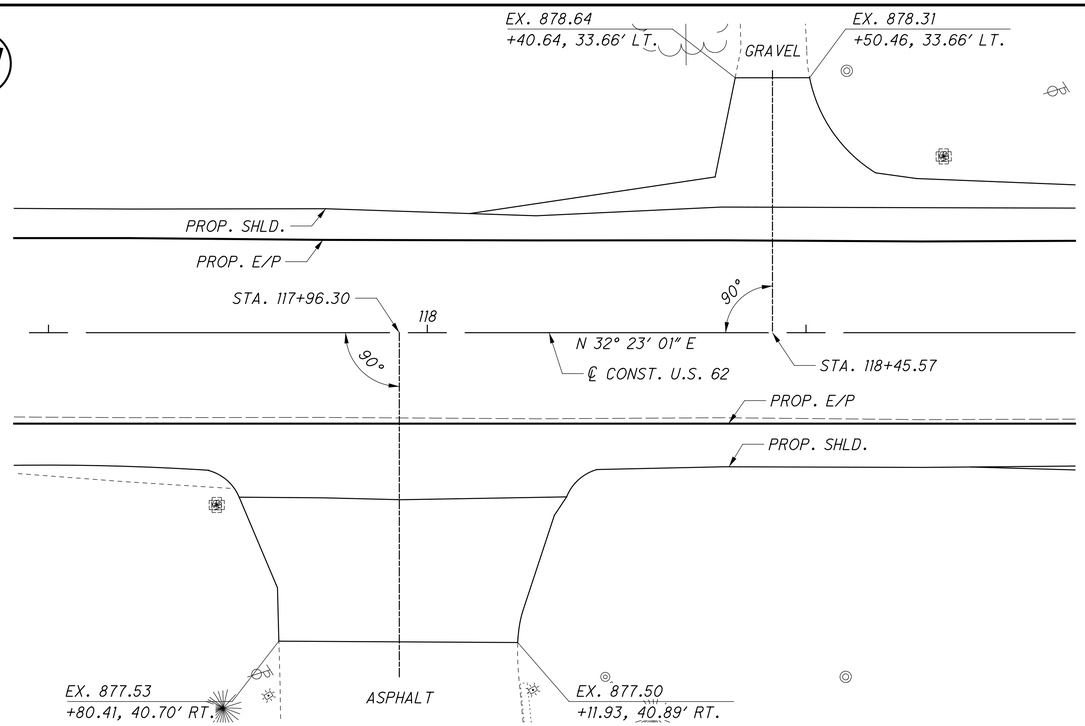
CALCULATED BLM
CHECKED BSB

REVISION NO. DATE

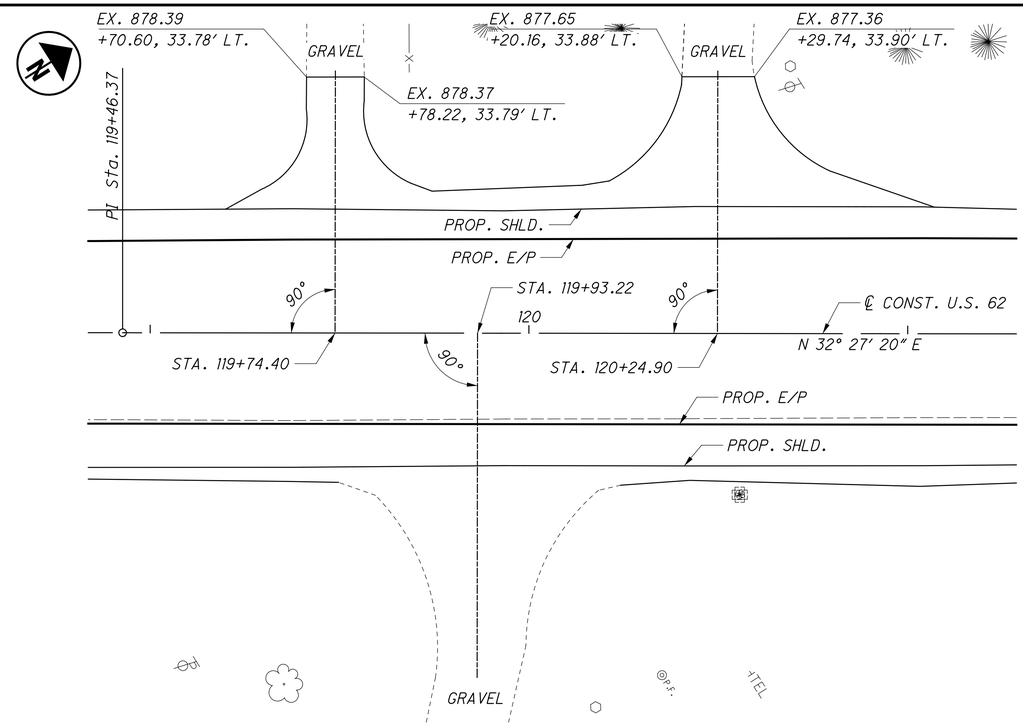
DRIVEWAY DETAILS

FRA-62-1.64

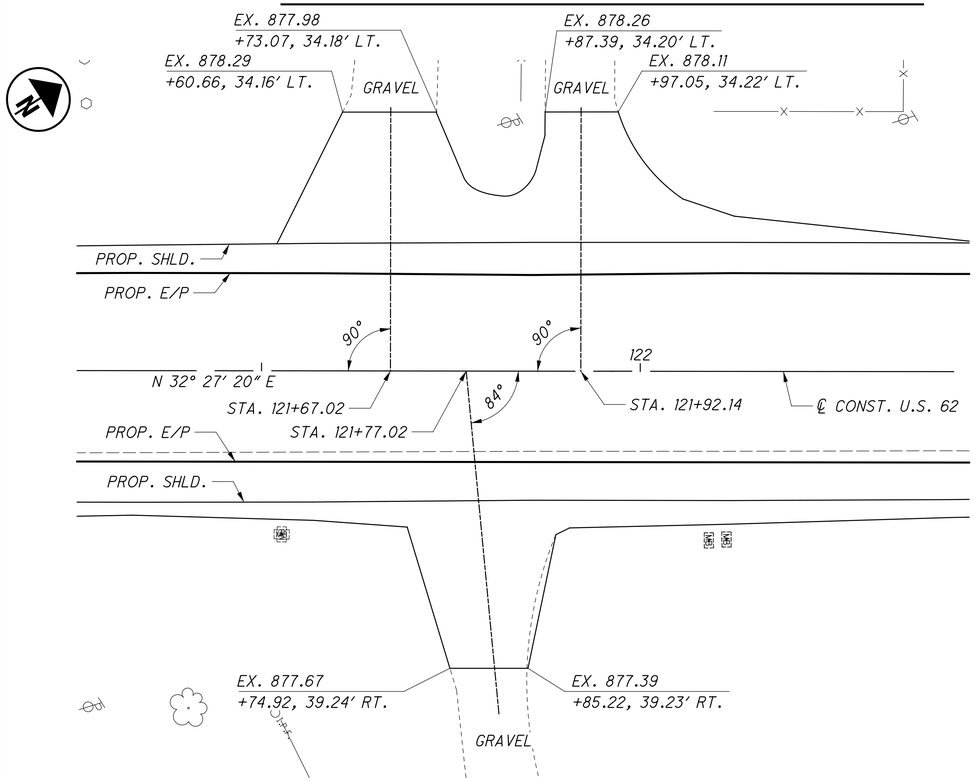
69
84



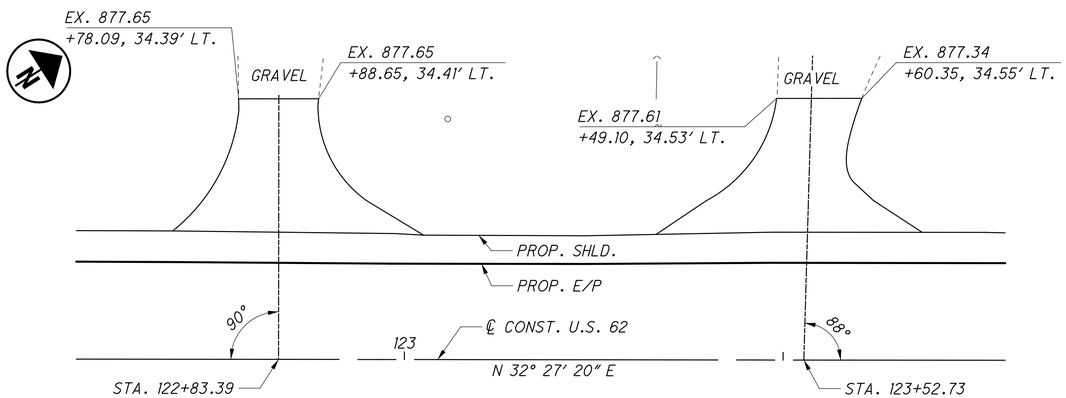
RES. DRIVEWAY DETAIL U.S. 62 - STA. 117+96.30 & STA. 118+45.57



RES. DRIVEWAY DETAIL U.S. 62 - STA. 119+74.40 & STA. 120+24.90
COMM. DRIVEWAY DETAIL U.S. 62 - STA. 119+93.22



RES. DRIVEWAY DETAIL U.S. 62 - STA. 121+67.02, 121+77.02 & STA. 121+92.14



RES. DRIVEWAY DETAIL U.S. 62 - STA. 122+83.39
COMM. DRIVEWAY DETAIL U.S. 62 - STA. 123+52.73

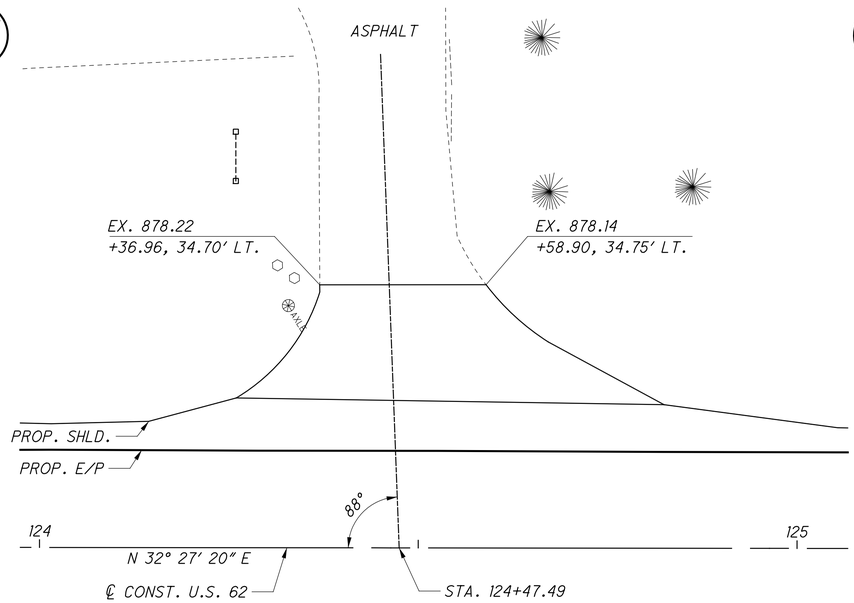
HORIZONTAL SCALE IN FEET
0 5 10 20

CALCULATED BLM
CHECKED BSB

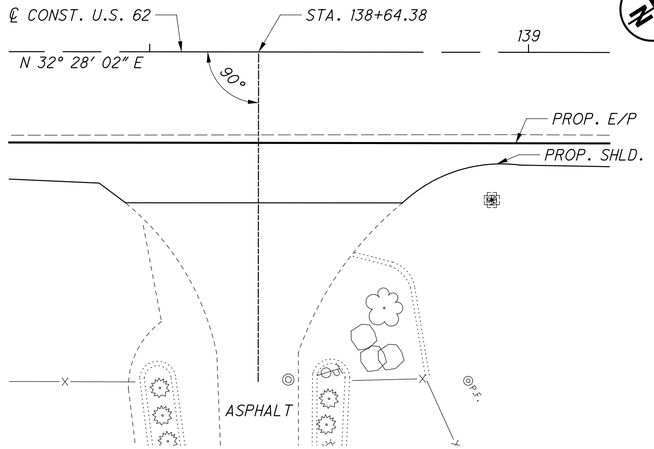
REVISION NO. DATE

DRIVEWAY DETAILS

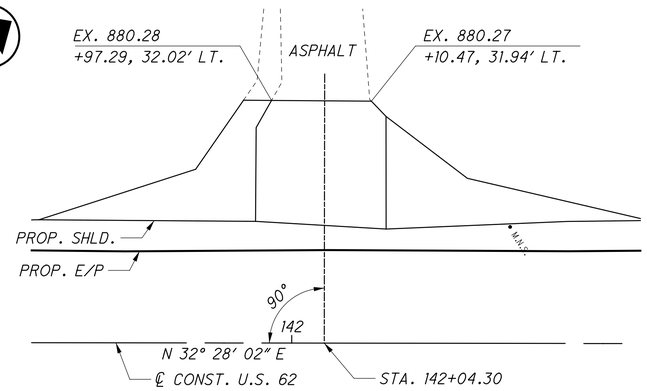
FRA-62-1.64



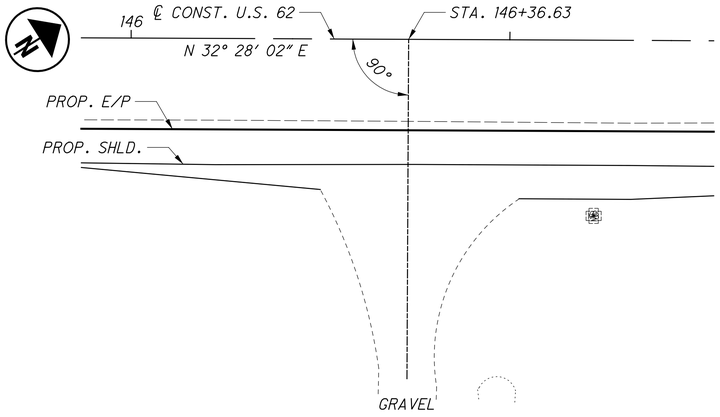
COMM. DRIVEWAY DETAIL U.S. 62 - STA. 124+47.49



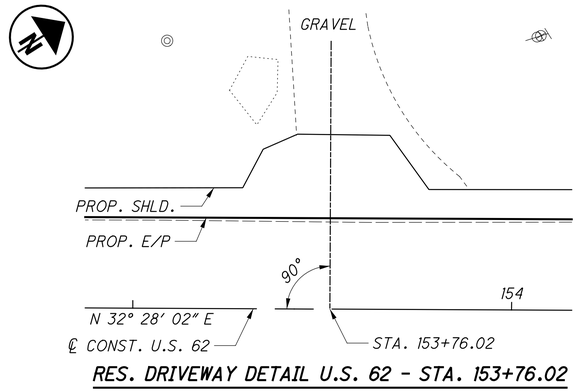
RES. DRIVEWAY DETAIL U.S. 62 - STA. 138+64.38



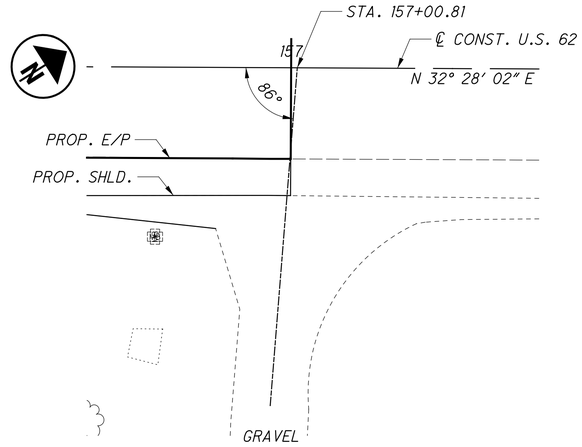
RES. DRIVEWAY DETAIL U.S. 62 - STA. 142+04.30



RES. DRIVEWAY DETAIL U.S. 62 - STA. 146+36.63



RES. DRIVEWAY DETAIL U.S. 62 - STA. 153+76.02



RES. DRIVEWAY DETAIL U.S. 62 - STA. 157+00.81

HORIZONTAL SCALE IN FEET
0 5 10 20

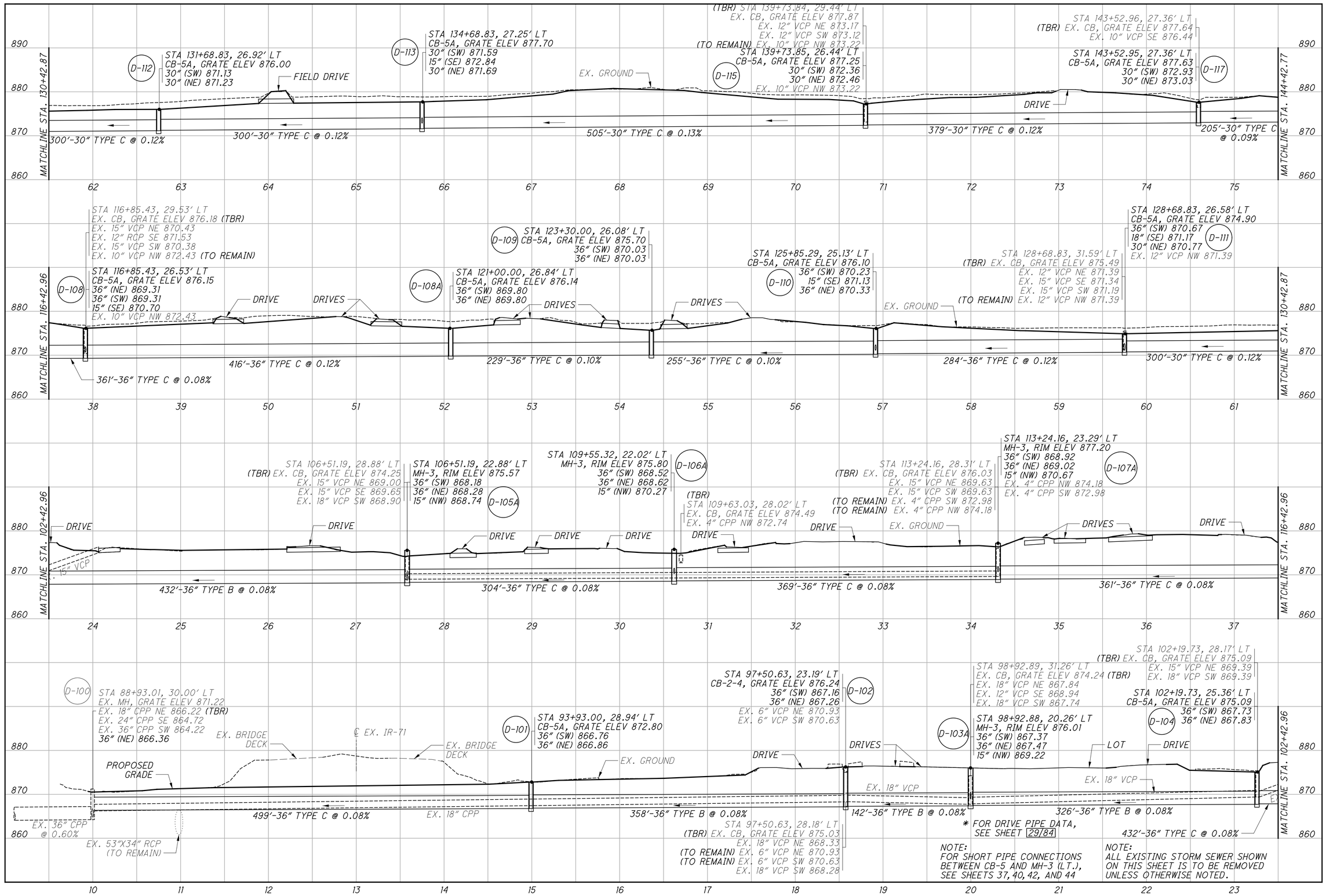
CALCULATED BLM
CHECKED BSB

REVISION NO. DATE

DRIVEWAY DETAILS

FRA-62-1.64

71
84



CALCULATED ECH
CHECKED BSB

LONGITUDINAL STORM PROFILES - LT.

U.S. 62

FRA-62-1.64

72
84

D-126
STA 125+85.34, 30.98' RT
CB-5, GRATE ELEV 875.70
15" (NW) 871.33
12" (SW) 871.43

D-128
STA 121+55.34, 35.26' RT
CB-5, GRATE ELEV 876.60
12" (NE) 874.13

STA 122+85.34, 35.14' RT
CB-5, GRATE ELEV 876.00
12" (NE) 872.99
12" (SW) 873.09
D-127

PROP. DITCH
EX. GROUND
DRIVE
EX. 12" (TBR) TYPE D
300'-12" TYPE C @ 0.52%
130'-12" TYPE C @ 0.80%

D-131
STA 134+68.90, 31.92' RT
CB-5, GRATE ELEV 878.60
15" (NE) 873.23
15" (NW) 873.13

D-132
STA 135+35.35, 31.84' RT
CB-5, GRATE ELEV 878.00
15" (SW) 873.56

PROP. GRADE
EX. GROUND
66'-15" TYPE C @ 0.50%

D-133
STA 145+57.66, 33.10' RT
CB-5, GRATE ELEV 877.25
12" (SW) 874.23
15" (NW) 873.98

D-134
STA 144+90.34, 33.82' RT
CB-5, GRATE ELEV 877.00
12" (NE) 874.57

PROP. GRADE
EX. GROUND
67'-12" TYPE C @ 0.51%

D-135
STA 148+57.66, 32.65' RT
CB-5, GRATE ELEV 878.00
15" (NW) 874.65
12" (NE) 874.75

D-136
STA 149+30.34, 32.24' RT
CB-5, GRATE ELEV 877.70
12" (SW) 875.28

EX. GROUND
73'-12" TYPE C @ 0.73%

880
870
860
10 11 12 13 14 10 11 10 11 10 11

A STA 106+50.28, 39.20' RT
(TBR) EX. CB, GRATE ELEV 876.39
EX. 10" VCP NE 871.59
EX. 12" VCP SE 870.69 (TO REMAIN)
EX. 6" CPP NE 870.69
EX. 12" VCP SW 870.34
EX. 10" VCP SW 870.39
EX. 15" VCP NW 870.39

(TBR)
STA 104+30.43, 31.58' RT
EX. CB, GRATE ELEV 875.20
EX. 12" CPP NE 869.90
EX. 15" CPP SW 869.80

STA 105+79.16, 31.98' RT
CB-5, GRATE ELEV 875.13
18" (SW) 870.33
18" (NE) 870.43
D-205
D-206

STA 106+50.28, 39.00' RT
CB-5, GRATE ELEV 876.39
18" (SW) 870.59
18" (NE) 870.69
EX. 12" VCP SE 870.69

STA 109+60.65, 30.61' RT
HW-2.2, ℄ ELEV 874.33
STA 109+60.65, 30.58' RT
(TBR) EX. PIO, GRATE ELEV 874.33
EX. 12" RCP SW 874.33
D-208

STA 104+30.43, 31.93' RT
CB-5, GRATE ELEV 875.20
21" (SW) 869.89
18" (NE) 869.99
D-204

MATCHLINE STA. 102+60.67

PROP. DITCH
EX. GROUND
DRIVE
PROP. DITCH
233'-21" TYPE C @ 0.23%
149'-18" TYPE C @ 0.23%
EX. 15" CPP
EX. 12" CPP
STA 105+79.16, 32.14' RT
(TBR) EX. CB, GRATE ELEV 875.12
EX. 12" CPP NE 870.32
EX. 12" CPP SW 870.12

STA 108+42.68, 31.07' RT
CB-5, GRATE ELEV 875.20
18" (SW) 871.75
18" (NE) 871.85
D-207

DRIVES
EX. 10" VCP
EX. 12" CPP
G 71'-18" TYPE C @ 0.22%
193'-18" TYPE C @ 0.55%

℄ EX. ZUBER RD.
PROP. DITCH
118'-18" TYPE B @ 2.10%
EX. 10" CPP

STA 108+42.69, 30.95' RT
EX. CB, GRATE ELEV 875.93 (TBR)
EX. 10" CPP NE 873.33
EX. 12" VCP SW 873.23

D-124
STA 116+85.41, 39.36' RT
CB-5, GRATE ELEV 876.10
15" (NW) 871.39
12" (NE) 871.64

D-125
STA 118+20.30, 33.91' RT
CB-5, GRATE ELEV 876.60
12" (SW) 872.99

DRIVE
PROP. DITCH
EX. 12" (TBR) TYPE D
EX. GROUND
135'-12" TYPE C @ 1.00%

STA 116+85.44, 39.59' RT
EX. CB, GRATE ELEV 876.54 (TBR)
EX. 3" PVC NE 875.94

D-129
STA 128+68.91, 41.22' RT
CB-5, GRATE ELEV 874.70
15" (SW) 871.63
18" (NW) 871.38
EX. 8" VCP SE 872.09

D-130
STA 127+80.35, 34.68' RT
CB-5, GRATE ELEV 875.00
15" (NE) 872.35

PROP. DITCH
EX. GROUND
EX. 10" VCP
EX. 10" VCP
89'-15" TYPE C @ 0.81%

(TBR) STA 128+70.16, 41.16' RT
EX. CB, GRATE ELEV 874.94
EX. 8" VCP SE 872.09
EX. 10" VCP SW 872.14

880
870
860
24 25 26 27 28 29 30 31 10 11 12 10 11

A STA 97+83.24, 28.45' RT
(TBR) EX. CB, GRATE ELEV 875.58
EX. 15" VCP NE 868.58
EX. 15" VCP SW 868.58

D STA 98+90.45, 28.11' RT
(TBR) EX. CB, GRATE ELEV 876.14
EX. 12" VCP NE 869.34
EX. 15" VCP SW 869.34

B STA 98+28.69, 28.09' RT
(TBR) EX. CB, GRATE ELEV 875.18
EX. 15" VCP NE 869.08
EX. 10" VCP SE 869.53 (TO REMAIN)
EX. 15" VCP SW 869.08

E STA 99+06.09, 28.49' RT
(TBR) EX. CB, GRATE ELEV 875.56
EX. 12" VCP NE 868.81
EX. 4" VCP SE 872.41 (TO REMAIN)
EX. 12" VCP SW 868.81

(TBR)
C STA 98+62.86, 27.92' RT
EX. CB, GRATE ELEV 875.77
EX. 15" VCP NE 869.17
EX. 15" VCP SW 869.17

* EX. 15" VCP
+ EX. 12" VCP

STA 98+28.69, 28.09' RT
CB-2-3, GRATE ELEV 875.18
24" (SW) 868.20
21" (NE) 868.30
EX. 10" VCP SE 869.53
D-201
D-202

STA 99+06.09, 28.49' RT
CB-2-3, GRATE ELEV 875.57
21" (SW) 868.48
21" (NE) 868.58
EX. 4" VCP SE 872.41

STA 101+97.42, 31.84' RT
CB-5, GRATE ELEV 875.27
21" (SW) 869.25
21" (NE) 869.35
12" (SW) 873.20
DRIVE PIPE
D-203

A STA 101+97.42, 31.83' RT
EX. CB, GRATE ELEV 875.27 (TBR)
EX. 15" CPP NE 869.92
EX. 12" SW 869.92

D-200
(TO REMAIN)
STA 89+10.73, 30.36' RT
EX. MH, GRATE ELEV 872.42
EX. 15" CPP NE 866.42 (TBR)
EX. 24" CPP NW 865.77
24" (NE) 866.42

℄ EX. IR-71 RAMPS
DRIVE
DRIVE
PROP. DITCH
DRIVE
PROP. GRADE
EX. GROUND
EX. 53"X34" RCP (TO REMAIN)
918'-24" TYPE B @ 0.19%
EX. 15" CPP
EX. 12" VCP
291'-21" TYPE B @ 0.23%
77'-21" TYPE B @ 0.23%
233'-21" TYPE C @ 0.23%
EX. 15" CPP
MATCHLINE STA. 102+60.67

880
870
860
10 11 12 13 14 15 16 17 18 19 20 21 22 23

STA 145+57.64, 26.39' LT
EX. CB, GRATE ELEV 877.68 (TBR)
EX. 12" VCP NE 873.63
EX. 12" VCP SW 873.53
EX. 12" VCP NW 873.73 (TO REMAIN)

STA 145+57.64, 26.39' LT
CB-5A, GRATE ELEV 877.50
30" (SW) 873.22
15" (SE) 873.75
24" (NE) 873.32
EX. 12" VCP NW 873.73
D-118

D-119
STA 148+57.64, 27.91' LT
CB-5, GRATE ELEV 878.20
24" (SW) 873.59
15" (SE) 874.34
24" (NE) 873.69

D-121
STA 152+24.90, 29.78' LT
CB-5, GRATE ELEV 877.50
24" (SW) 874.12
15" (SE) 874.47
18" (NE) 874.22

STA 152+24.91, 29.77' LT (TBR)
EX. CB, GRATE ELEV 878.12
EX. 10" VCP NE 874.22
EX. 12" VCP SW 874.12
EX. 10" VCP NW 874.52
(TO REMAIN)

STA 155+24.90, 29.05' LT
MH-3, RIM ELEV 879.60
18" (SW) 874.42
15" (SE) 874.52
12" (NE) 874.52
D-122

STA 155+99.46, 28.88' LT
EX. CB, GRATE ELEV 878.28 (TBR)
EX. 10" VCP NE 875.18 (TO REMAIN)
EX. 10" VCP SW 874.98
EX. 10" VCP NW 875.18

STA 155+99.46, 28.88' LT
CB-5, GRATE ELEV 877.60
12" (SW) 874.67
EX. 10" VCP NE 875.18
D-123

STA 151+07.64, 29.16' LT
CB-5, GRATE ELEV 878.00
24" (SW) 873.91
24" (NE) 874.01
D-120

MATCHLINE STA. 144+42.77

EX. GROUND
DRIVE
205'-30" TYPE C @ 0.09%
301'-24" TYPE C @ 0.09%
250'-24" TYPE C @ 0.09%
117'-24" TYPE C @ 0.09%
300'-18" TYPE C @ 0.07%
75'-12" TYPE C @ 0.20%

NOTE:
FOR SHORT PIPE CONNECTIONS BETWEEN CB-5 AND MH-3 (LT.), SEE SHEETS 37, 40, 42, AND 44

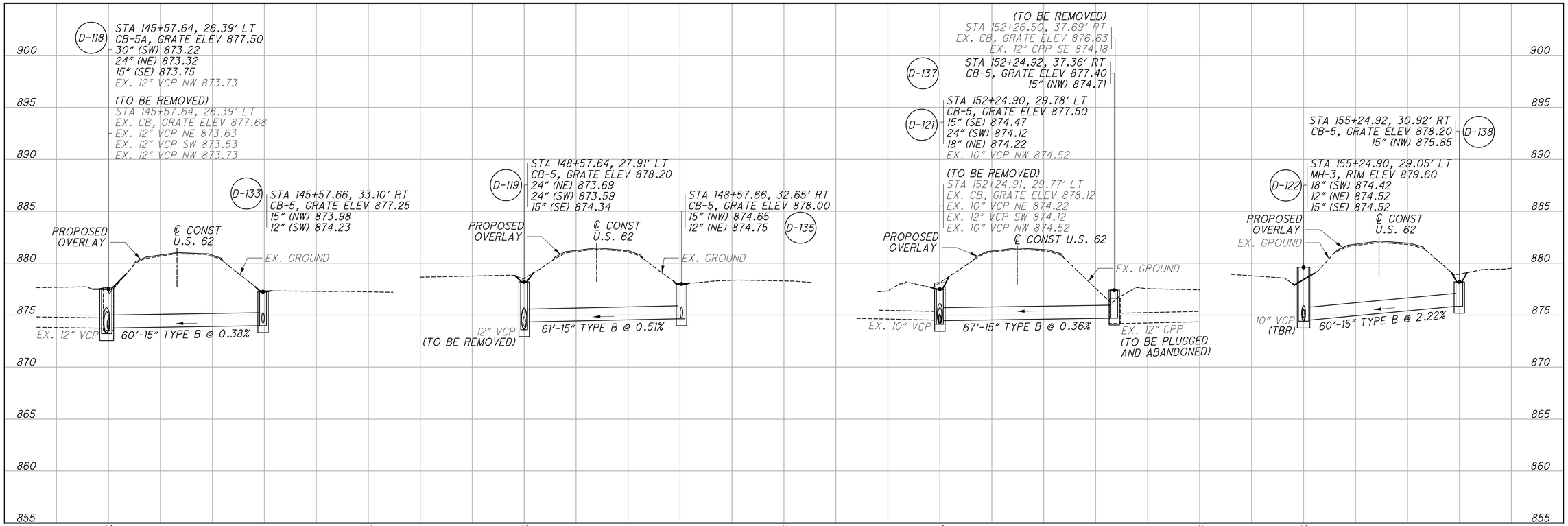
NOTE:
ALL EXISTING STORM SEWER SHOWN ON THIS SHEET IS TO BE REMOVED UNLESS OTHERWISE NOTED.

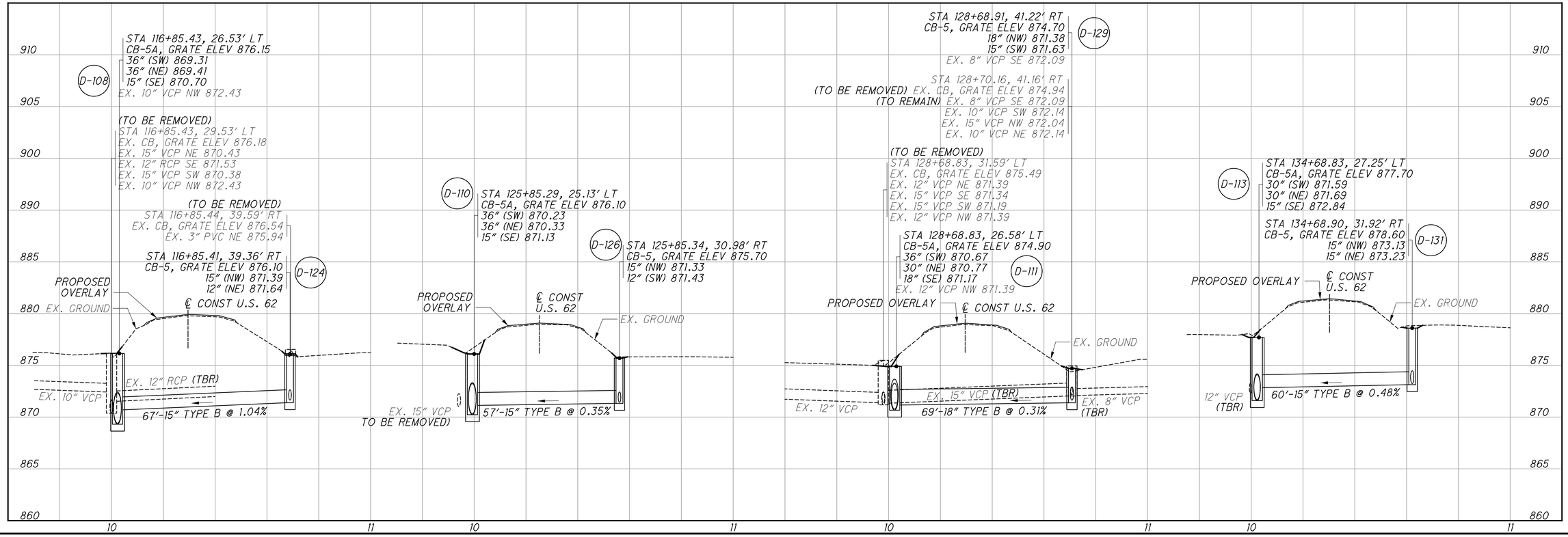
890
880
870
76 77 78 79 80 81 82 83 84 85 86 87 88

CALCULATED ECH
CHECKED BSB

LONGITUDINAL STORM PROFILES - LT. & RT.
U.S. 62

FRA-62-1.64





CALCULATED ECH
CHECKED BSB

STORM SEWER PROFILE CROSSINGS U.S. 62

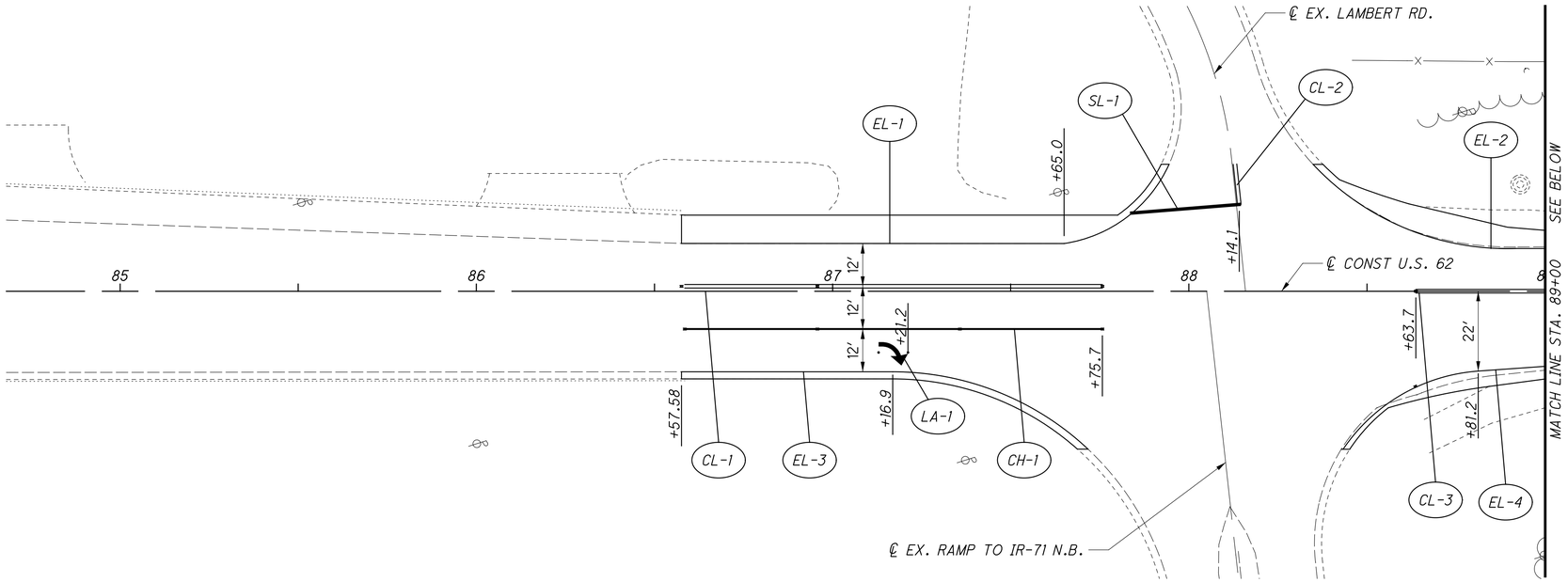
FRA-62-1.64

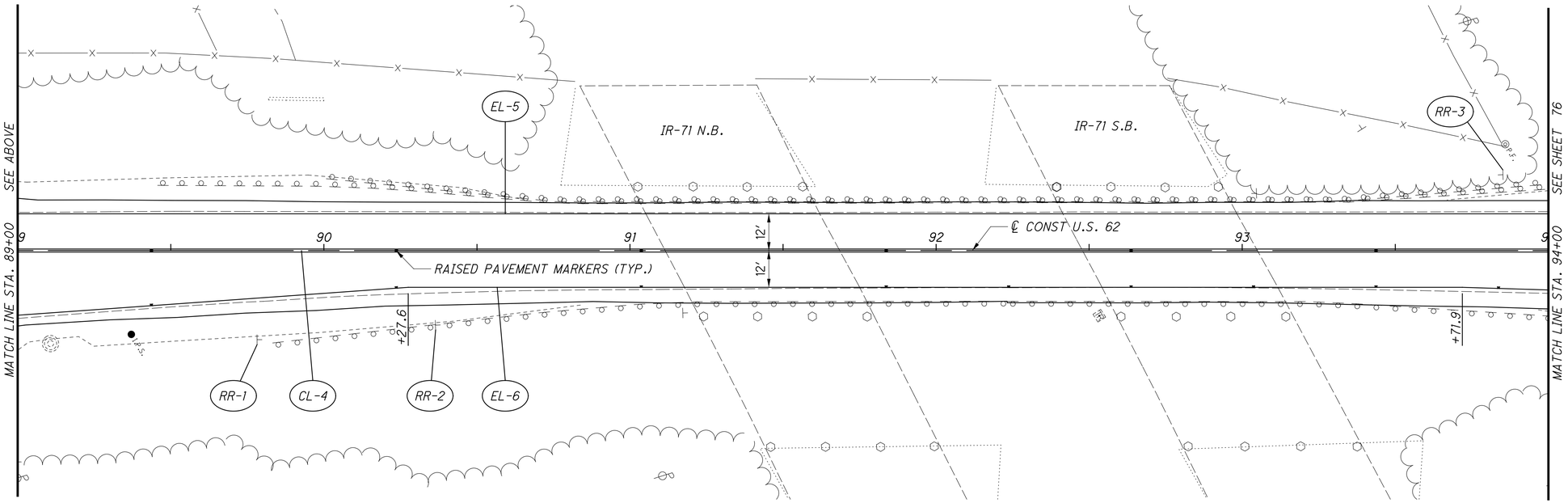
PAVEMENT MARKING LEGEND

- CH - CHANNELIZING LINES
- EL - EDGE LINES
- CL - CENTER LINES
- SL - STOP LINES
- LA - LANE ARROWS
- RR - EX. GROUND MOUNTED SIGNS TO BE REMOVED AND RE-ERECTED. EX. GROUND MOUNTED SUPPORTS TO BE REMOVED AND REPLACED WITH TYPICAL NO. 2 AND NO. 3 U-CHANNEL SPLICE. FOR DETAIL, SEE SHEET 6 .

CENTERLINE RPMS SHALL BE 2-WAY YELLOW/YELLOW, PLACED AT 80' (TYPICAL)

CHANNELIZING LINE RPM'S SHALL BE 2-WAY WHITE/RED, PLACED AT 40' (TYPICAL)





HORIZONTAL SCALE IN FEET
0 10 20 40

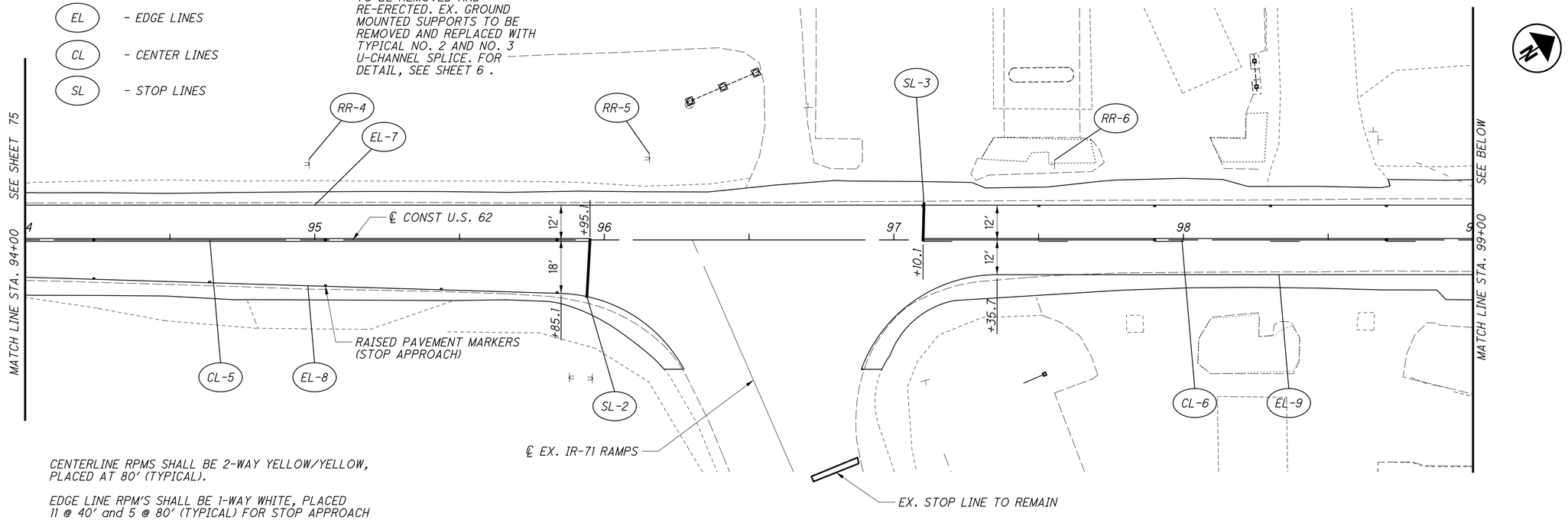
CALCULATED CT
CHECKED BSB

PAVEMENT MARKING PLAN
U.S. 62

FRA-62-1.64

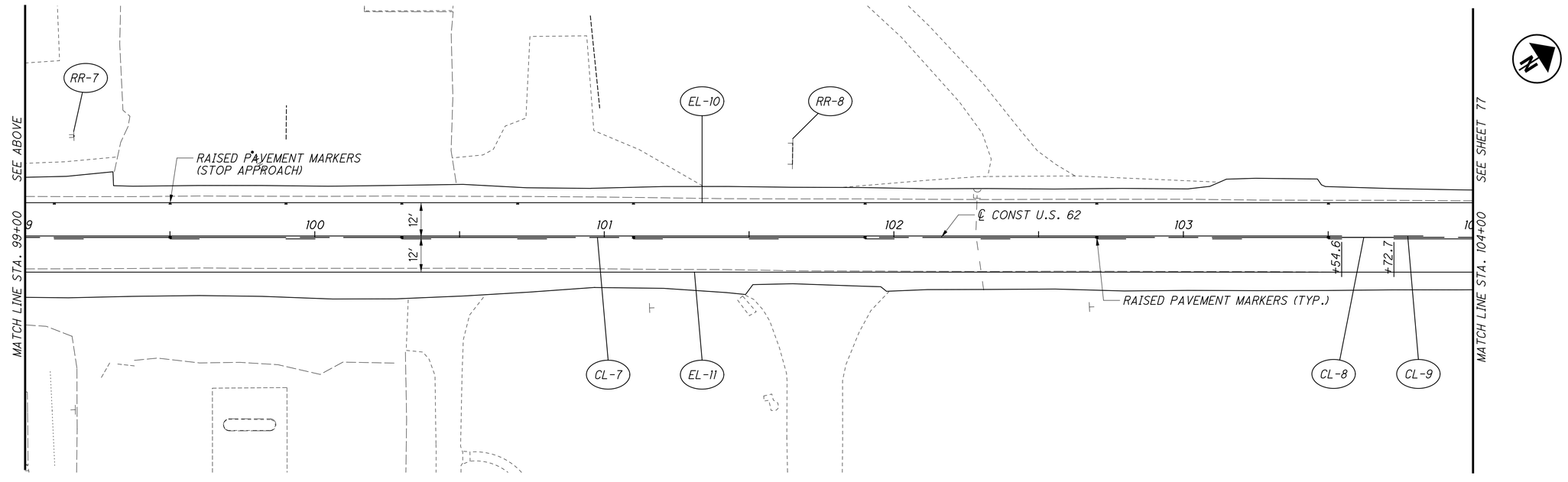
PAVEMENT MARKING LEGEND

CH - CHANNELIZING LINES
EL - EDGE LINES
CL - CENTER LINES
SL - STOP LINES
RR - EX. GROUND MOUNTED SIGNS TO BE REMOVED AND RE-ERECTED. EX. GROUND MOUNTED SUPPORTS TO BE REMOVED AND REPLACED WITH TYPICAL NO. 2 AND NO. 3 U-CHANNEL SPLICE. FOR DETAIL, SEE SHEET 6 .



CENTERLINE RPMS SHALL BE 2-WAY YELLOW/YELLOW, PLACED AT 80' (TYPICAL).

EDGE LINE RPM'S SHALL BE 1-WAY WHITE, PLACED 11 @ 40' and 5 @ 80' (TYPICAL) FOR STOP APPROACH SEE SCD TC-65.11 SHEET 2 OF 2 FOR DETAILS.



HORIZONTAL SCALE IN FEET
0 10 20 40
CALCULATED CT
CHECKED BSB

PAVEMENT MARKING PLAN
U.S. 62

FRA-62-1.64

76
84

PAVEMENT MARKING LEGEND

CH - CHANNELIZING LINES

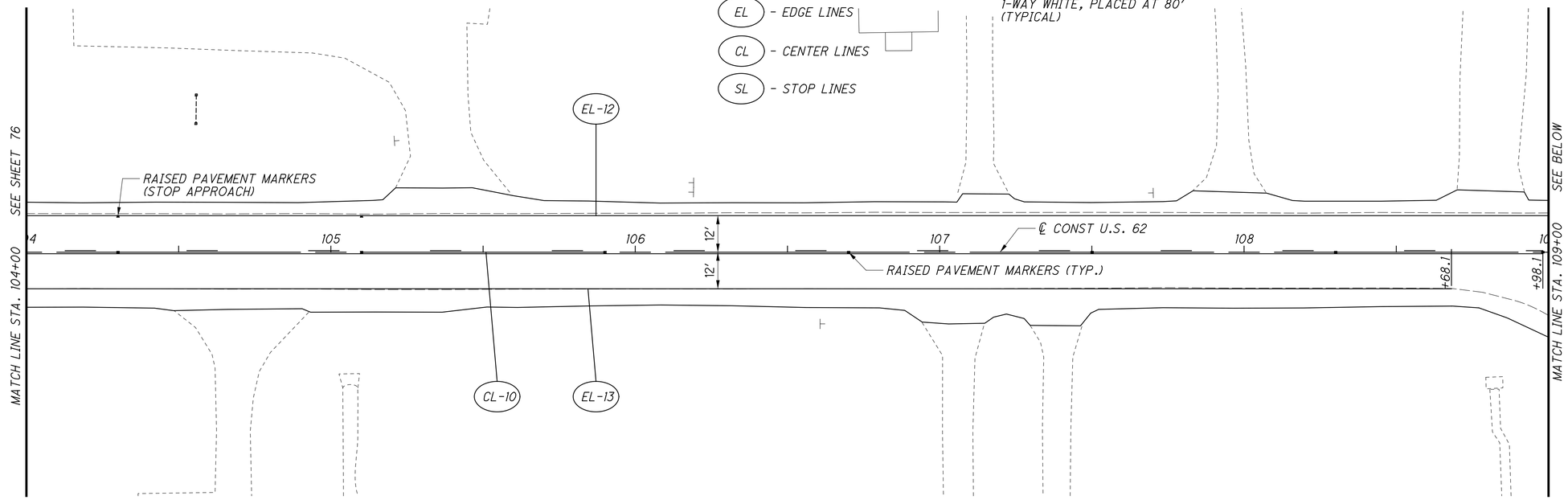
EL - EDGE LINES

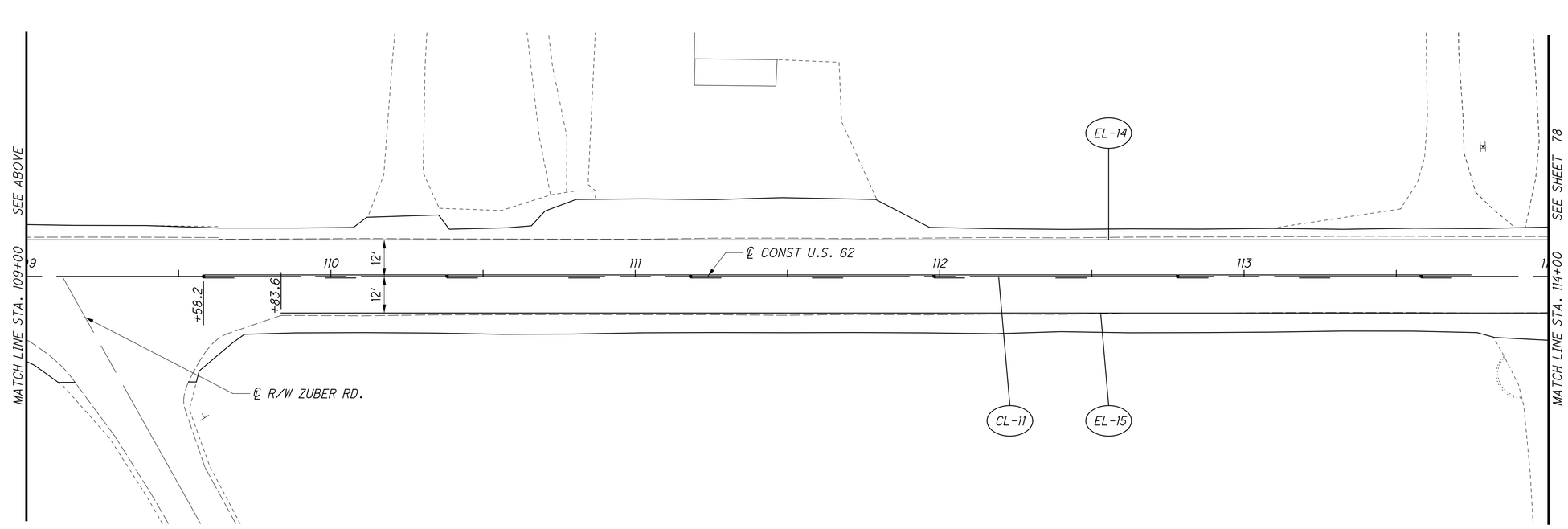
CL - CENTER LINES

SL - STOP LINES

CENTERLINE RPMS SHALL BE 2-WAY YELLOW/YELLOW, PLACED AT 80' (TYPICAL)

EDGE LINE RPM'S SHALL BE 1-WAY WHITE, PLACED AT 80' (TYPICAL)





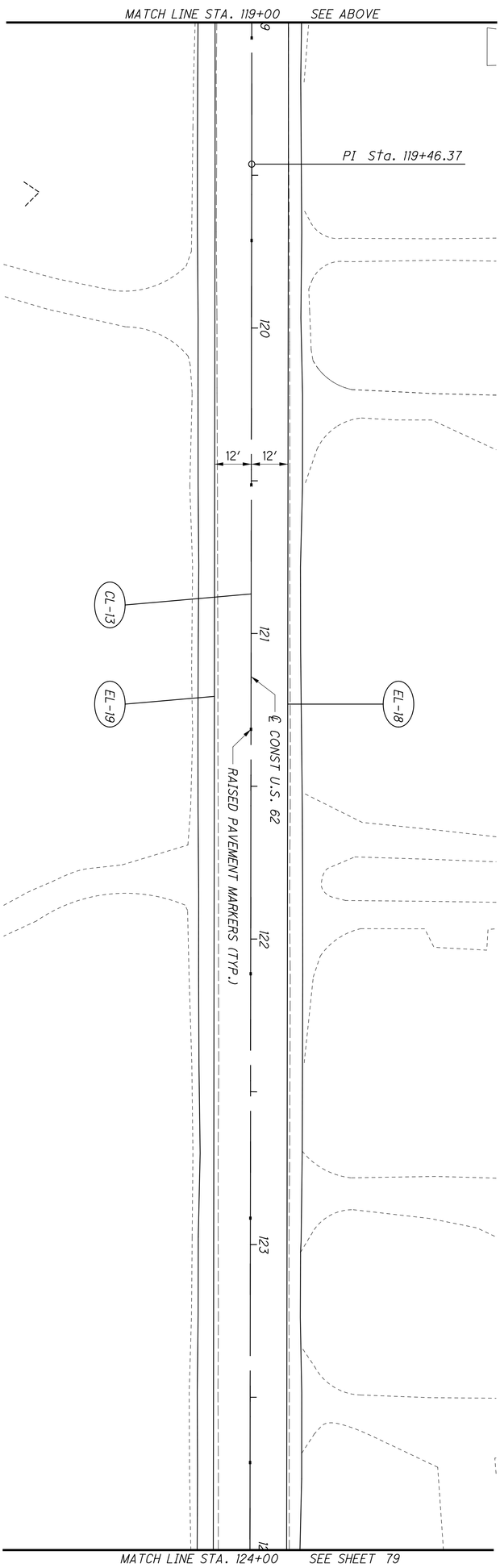
HORIZONTAL SCALE IN FEET
0 10 20 40

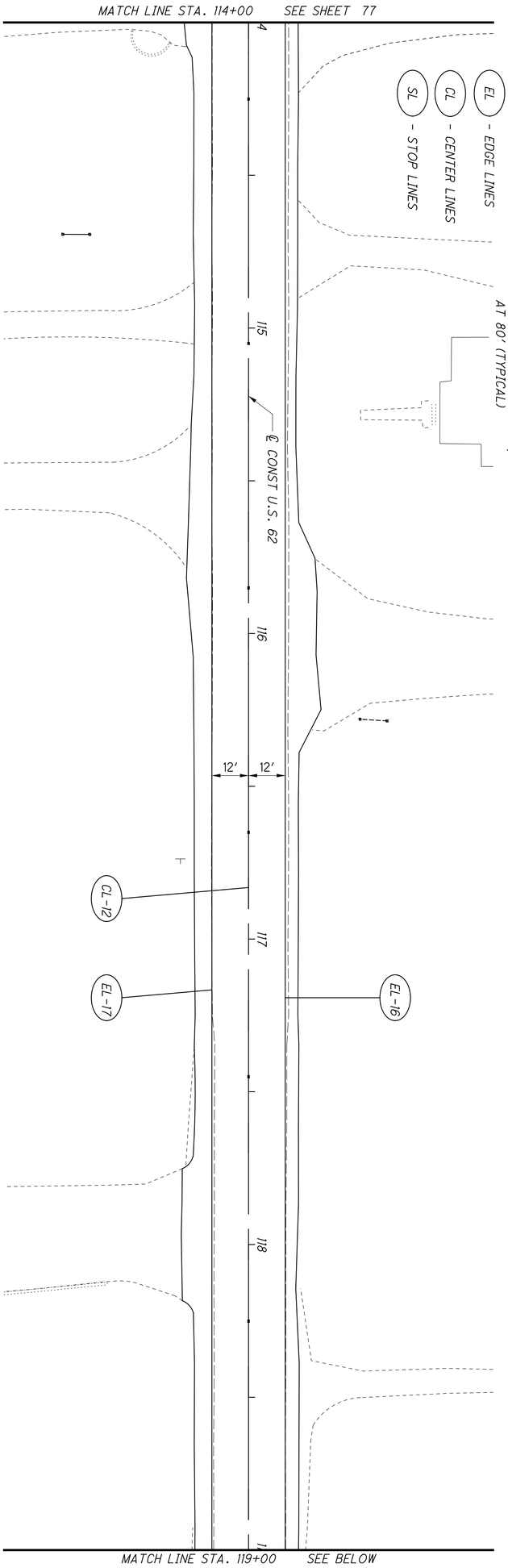
CALCULATED CT
CHECKED BSB

PAVEMENT MARKING PLAN
U.S. 62

FRA-62-1.64

77
84



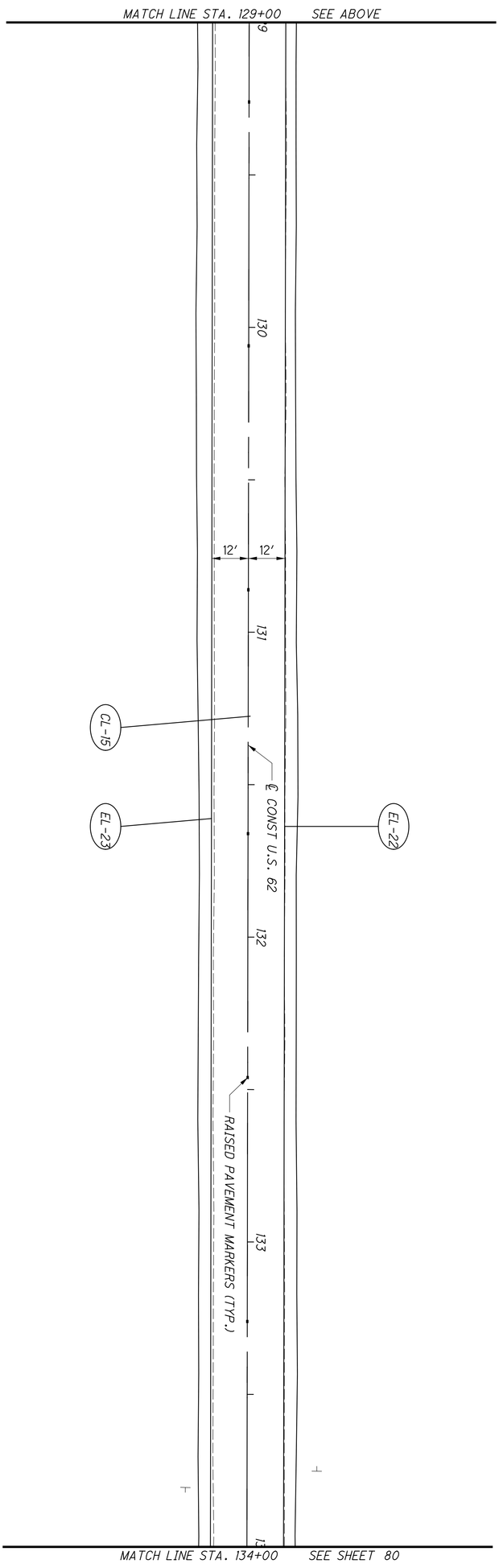


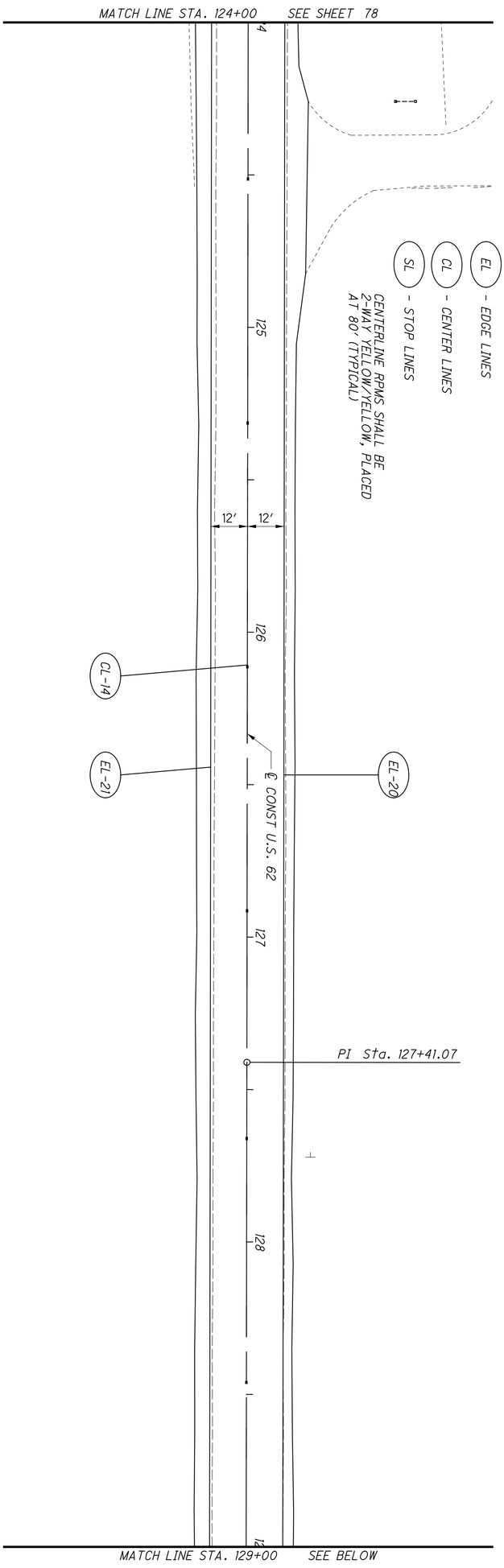
PAVEMENT MARKING LEGEND

CH - CHANNELIZING LINES
EL - EDGE LINES
CL - CENTER LINES
SL - STOP LINES

CENTERLINE RPMS SHALL BE 2-WAY YELLOW/YELLOW, PLACED AT 80' (TYPICAL)

78 84	FRA-62-1.64	PAVEMENT MARKING PLAN U.S. 62	CALCULATED CT / CHECKED BSB	0 10 20 40 HORIZONTAL SCALE IN FEET





FRA-62-1.64

PAVEMENT MARKING PLAN
U.S. 62

CALCULATED CT
CHECKED BSB

0 10 20 40
HORIZONTAL SCALE IN FEET

PAVEMENT MARKING LEGEND

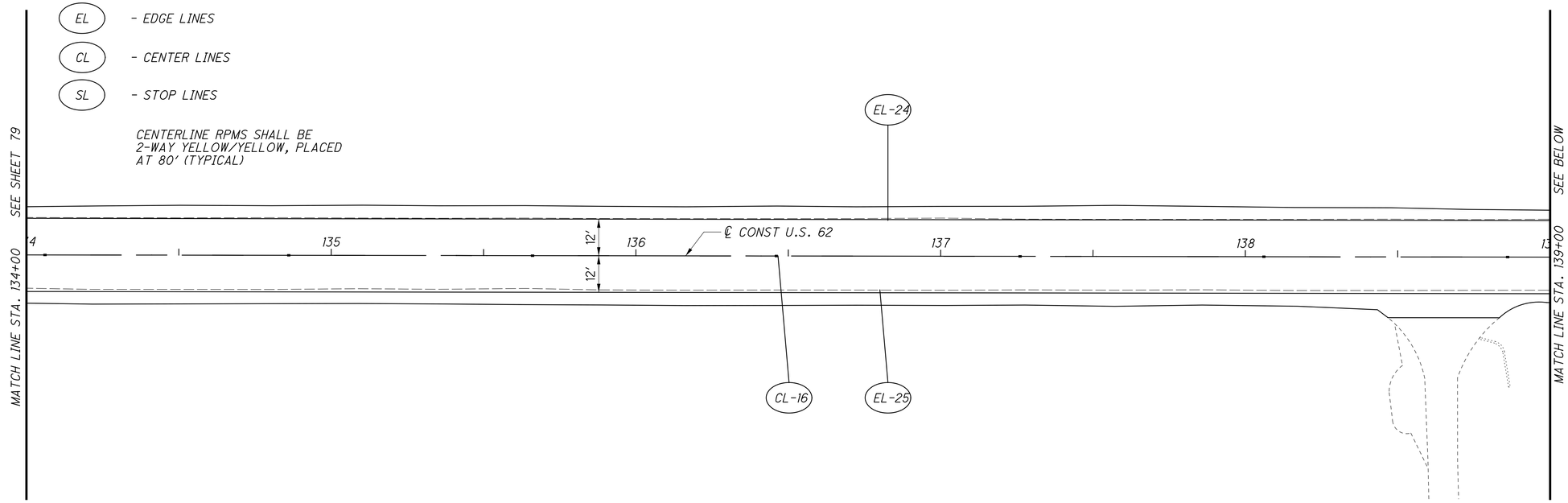
CH - CHANNELIZING LINES

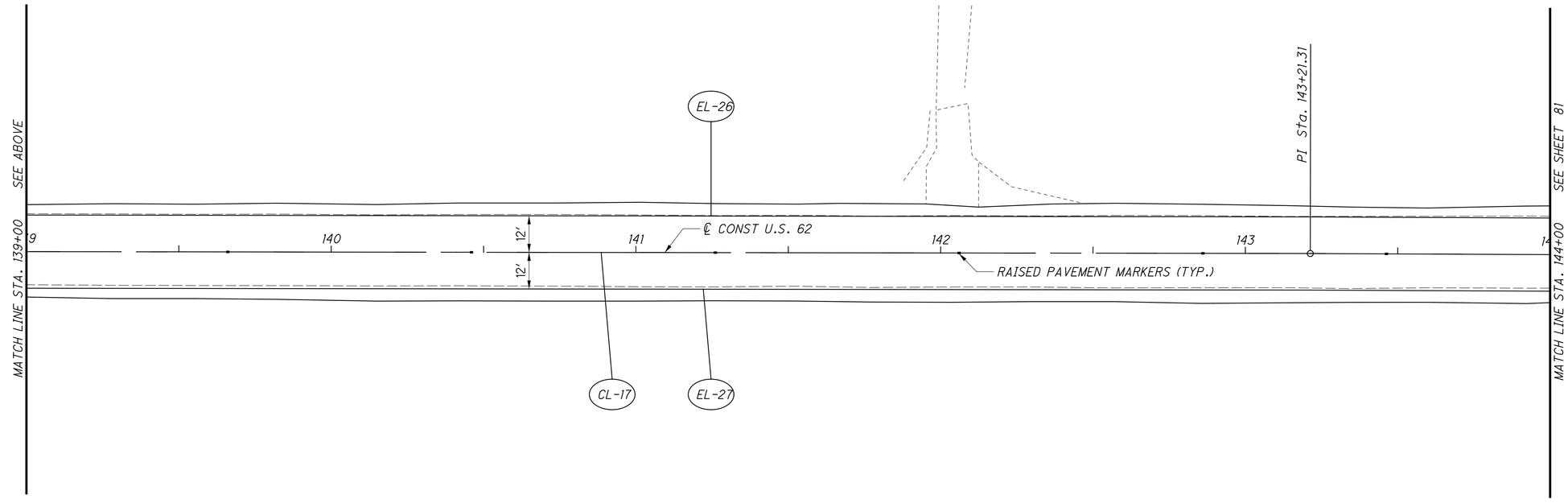
EL - EDGE LINES

CL - CENTER LINES

SL - STOP LINES

CENTERLINE RPMS SHALL BE 2-WAY YELLOW/YELLOW, PLACED AT 80' (TYPICAL)





HORIZONTAL SCALE IN FEET
0 10 20 40

CALCULATED CT
CHECKED BSB

PAVEMENT MARKING PLAN
U.S. 62

FRA-62-1.64

80
84

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PAVEMENT MARKING LEGEND

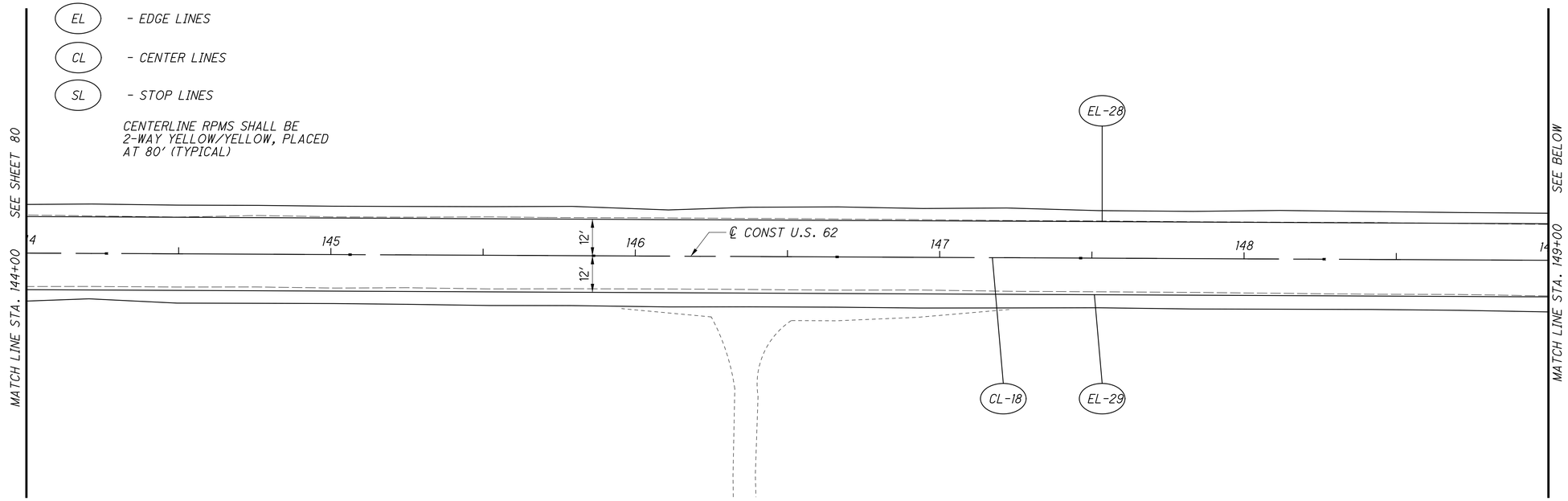
CH - CHANNELIZING LINES

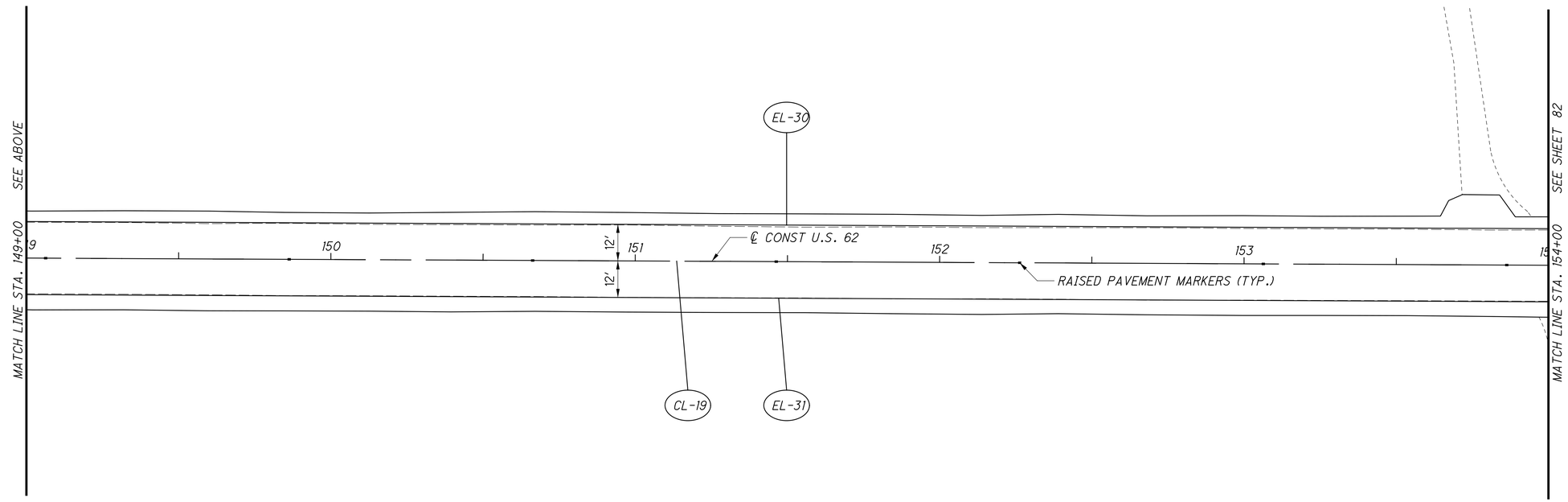
EL - EDGE LINES

CL - CENTER LINES

SL - STOP LINES

CENTERLINE RPMS SHALL BE 2-WAY YELLOW/YELLOW, PLACED AT 80' (TYPICAL)





HORIZONTAL SCALE IN FEET
0 10 20 40

CALCULATED CT
CHECKED BSB

PAVEMENT MARKING PLAN
U.S. 62

FRA-62-1.64

81
84

PAVEMENT MARKING LEGEND

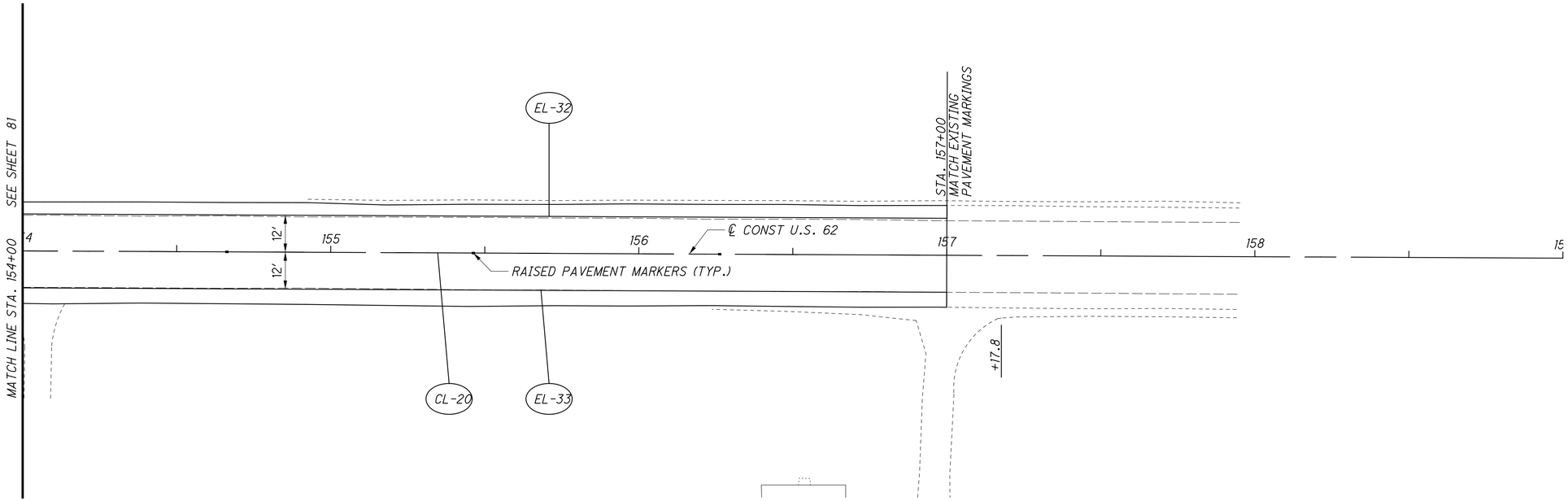
CH - CHANNELIZING LINES

EL - EDGE LINES

CL - CENTER LINES

SL - STOP LINES

CENTERLINE RPMS SHALL BE 2-WAY YELLOW/YELLOW, PLACED AT 80' (TYPICAL)



HORIZONTAL SCALE IN FEET
0 10 20 40

CALCULATED CT
CHECKED BSB

PAVEMENT MARKING PLAN
U.S. 62

FRA-62-1.64

82
84

SHEET NO.	REF. NO.	STATION FROM	STATION TO	SIDE	621 RPM EACH	621 RAISED PAVEMENT MARKER REMOVED EACH	630 GROUND MOUNTED SUPPORT, NO. 2 POST FT	630 GROUND MOUNTED SUPPORT, NO. 3 POST FT	644 EDGE LINE, 4" MILE	644 CENTER LINE MILE	644 CHANNELIZING LINE, 8" FT	644 STOP LINE FT	644 LANE ARROW EACH
75	CL-1	86+58	87+76	C	3					0.02			
75	CL-2	88+14		C						0.00			
75	CL-3	88+64	89+00	C	1	1				0.01			
75	CL-4	89+00	94+00	C	6	6				0.09			
75	EL-1	86+58	87+94	LT					0.03				
75	EL-2	88+35	89+00	LT					0.01				
75	EL-3	86+58	87+72	RT					0.01				
75	EL-4	88+43	89+00	RT	1				0.02				
75	EL-5	89+00	94+00	LT					0.09				
75	EL-6	89+00	94+00	RT	9				0.09				
75	CH-1	86+59	87+76	RT	4						117		
75	SL-1	87+84	88+14	LT								30	
75	LA-1	87+21		RT									1
75	RR-1	89+78		RT			5	10					
75	RR-2	90+36		RT			7	10					
75	RR-3	93+85		LT			10	20					
76	CL-5	94+00	95+95	C	3	2				0.04			
76	CL-6	97+10	99+00	C	3	3				0.04			
76	CL-7	99+00	103+55	C	6	4				0.09			
76	CL-8	103+55	103+73	C		1				0.00			
76	CL-9	103+73	104+00	C						0.01			
76	EL-7	94+00	99+00	LT	4				0.09				
76	EL-8	94+00	96+28	RT	5				0.04				
76	EL-9	96+89	99+00	RT					0.04				
76	EL-10	99+00	104+00	LT	9				0.09				
76	EL-11	99+00	104+00	RT					0.09				
76	SL-2	95+94	95+95	RT								20	
76	SL-3	97+10		LT								12	
76	RR-4	94+98		LT			10	20					
76	RR-5	96+16		LT			10	20					
76	RR-6	97+55		LT			7	10					
76	RR-7	99+17		LT			14	20					
76	RR-8	101+65		LT			10	20					
77	CL-10	104+00	108+98	C	7	5				0.09			
77	CL-11	109+58	114+00	C	6	6				0.09			
77	EL-12	104+00	109+00	LT	2				0.09				
77	EL-13	104+00	108+68	RT					0.09				
77	EL-14	109+00	114+00	LT					0.09				
77	EL-15	109+84	114+00	RT					0.08				
78	CL-12	114+00	119+00	C	6	6				0.09			
78	CL-13	119+00	124+00	C	7	5				0.09			
78	EL-16	114+00	119+00	LT					0.09				
78	EL-17	114+00	119+00	RT					0.09				
78	EL-18	119+00	124+00	LT					0.09				
78	EL-19	119+00	124+00	RT					0.09				
TOTALS CARRIED TO GENERAL SUMMARY					82	39	73	130	1.38	0.67	117	62	1

CALCULATED SMJ
CHECKED BSB

TRAFFIC CONTROL SUBSUMMARY
STA. 86+57.58 TO STA. 124+00

FRA-62-1.64

SHEET NO.	REF. NO.	STATION FROM	STATION TO	SIDE	621 RPM EACH	621 RAISED PAVEMENT MARKER REMOVED EACH	630 GROUND MOUNTED SUPPORT, NO. 2 POST FT	630 GROUND MOUNTED SUPPORT, NO. 3 POST FT	644 EDGE LINE, 4" MILE	644 CENTER LINE MILE	644 CHANNELIZING LINE, 8" FT	644 STOP LINE FT	644 LANE ARROW EACH
79	CL-14	124+00	129+00	C	6	6				0.09			
79	CL-15	129+00	134+00	C	6	6				0.09			
79	EL-20	124+00	129+00	LT					0.09				
79	EL-21	124+00	129+00	RT					0.09				
79	EL-22	129+00	134+00	LT					0.09				
79	EL-23	129+00	134+00	RT					0.09				
80	CL-16	134+00	139+00	C	7	6				0.09			
80	CL-17	139+00	144+00	C	6	7				0.09			
80	EL-24	134+00	139+00	LT					0.09				
80	EL-25	134+00	139+00	RT					0.09				
80	EL-26	139+00	144+00	LT					0.09				
80	EL-27	139+00	144+00	RT					0.09				
81	CL-18	144+00	149+00	C	6	6				0.09			
81	CL-19	149+00	154+00	C	7	6				0.09			
81	EL-28	144+00	149+00	LT					0.09				
81	EL-29	144+00	149+00	RT					0.09				
81	EL-30	149+00	154+00	LT					0.09				
81	EL-31	149+00	154+00	RT					0.09				
82	CL-20	154+00	157+00	C	3	4			0.06				
82	EL-32	154+00	157+00	LT					0.06				
82	EL-33	154+00	157+00	RT					0.06				
TOTALS CARRIED TO GENERAL SUMMARY					41	41	0	0	1.31	0.57	0	0	0

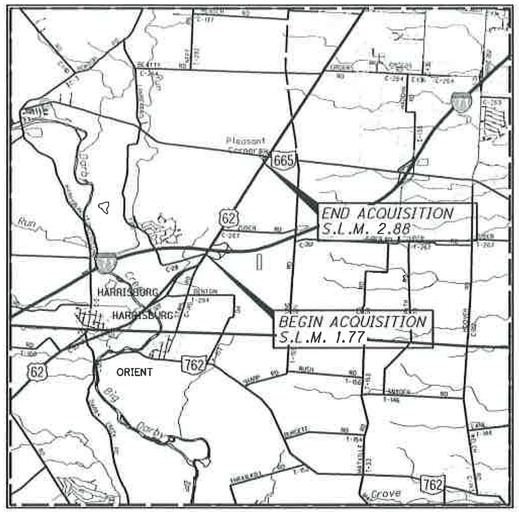
CALCULATED SMJ
CHECKED BSB

TRAFFIC CONTROL SUBSUMMARY
STA. 124+00.00 TO STA. 157+00.00

FRA-62-1.64

RIGHT OF WAY LEGEND SHEET FRA-62-1.64

FRANKLIN COUNTY
PLEASANT TOWNSHIP
V.M.S. 931, V.M.S. 947 & V.M.S. 6178



LOCATION MAP

LATITUDE: LONGITUDE:

SCALE IN MILES
0 1 2 3 4

PROJECT DESCRIPTION

THIS PROJECT CONSISTS OF RESURFACING 1.33 MILES OF US 62. THIS INCLUDES 1.5" MIL AND FILL FOR 0.26 MILES AND 1.5" OVERLAY FOR 1.07 MILES. THIS PROJECT ALSO CONSISTS OF REPLACING 12,500 FEET OF EXISTING STORM SEWER.

THE EXISTING AND PROPOSED RIGHT OF WAY SHALL BE REFERENCE FROM THE EXISTING CENTERLINE OF RIGHT OF WAY FOR US ROUTE 62.

PLANS PREPARED BY:

FIRM NAME : RESOURCE INTERNATIONAL, INC.
R/W DESIGNER: EARL GRANT
R/W REVIEWER: MARK S. WARD
FIELD REVIEWER: KYLE JANES
PRELIMINARY FIELD REVIEW DATE: 3-11-2013
TRACINGS FIELD REVIEW DATE: 10-20-2014
OWNERSHIP UPDATED BY: EARL GRANT
DATE COMPLETED: 9-30-2014
PLAN COMPLETION DATE: 10-20-2014

INDEX OF SHEETS:

LEGEND SHEET	1
CENTERLINE PLAT	2
PROPERTY MAP	3
SUMMARY OF ADDITIONAL R/W	4 & 5
R/W DETAIL PLANS	6 THRU 19

UTILITY OWNERS

TYPE	NAME & ADDRESS
POWER	AEP COLUMBUS SOUTHERN POWER 1 RIVERSIDE PLAZA COLUMBUS, OH 43215 PHONE: (614) 716-2531
TELEPHONE	AT&T OHIO 111 NORTH 4th STTEET COLUMBUS, OH 43215 PHONE: (614) 223-7162
CABLE	TIME WARNER COMMUNICATIONS 3760 INTERCHANGE RD COLUMBUS, OH 43204 PHONE: (614) 481-5262
TRAFFIC	ODOT TRAFFIC (DIST 6) 400 EAST WILLIAMS ST DELAWARE, OH 430151 PHONE: (740) 833-8332

STRUCTURE KEY

- RESIDENTIAL
- COMMERCIAL
- OUT-BUILDING

CONVENTIONAL SYMBOLS

County Line
Township Line
Section Line
Corporation Line or
Fence Line (Ex) (Pr)
Center Line
Right of Way (Ex) Ex R/W
Right of Way Fee Ex LA-R/W
w/Limitation of Access (Ex)
Right of Way (Pr) R/W
Standard Highway Ease.(Ex) Ex SH
Temporary Right of Way TMP
Channel Ease. (Pr) CH
Utility Ease. (Ex) Ex U/E
Railroad or
Guardrail (Ex) (Pr)
Construction Limits
Edge of Pavement (Ex)
Edge of Pavement (Pr)
Edge of Shoulder (Ex)
Edge of Shoulder (Pr)
Ditch / Creek (Ex)
Ditch / Creek (Pr)
Tree Line (Ex)
Ownership Hook Symbol , Example
Property Line Symbol , Example
Break Line Symbol , Example
Tree (Pr) , Tree (Ex) , Shrub (Ex)
Tree (Remove) , Shrub (Remove)
Evergreen (Ex) , Stump
Evergreen (Remove) , Stump (Remove)
Wetland (Pr) , Grass (Pr) , Aerial Target
Post (Ex) , Mailbox (Ex) , Mailbox (Pr)
Light (Ex) , Telephone Marker (Ex) TEL
Fire Hydrant (Ex) , Water Meter (Ex)
Water Valve (Ex) , Utility Valve Unknown (Ex.)
Telephone Pole (Ex) , Power Pole (Ex)
Light Pole (Ex)

TYPES OF TITLE LEGEND:

T = TEMPORARY EASEMENT

NOTES: THE LOCATION OF THE UNDERGROUND UTILITIES SHOWN ON THE PLANS ARE OBTAINED FROM THE OWNER OF THE UTILITIES AS REQUIRED BY SECTION 153.64 O.R.C.

I, Mark S. Ward, P. S. have conducted a survey of the existing conditions for the Ohio Department of Transportation on September 27, 2013. The results of that survey are contained herein. The horizontal coordinates expressed herein are based on the Ohio State Plane Coordinate System, South Zone on NAD 83 datum. The Project Coordinates (US Survey feet) are relative to State Plane Grid Coordinates (meters or US Survey feet) by a Project Adjustment Factor multiplier of 1.000070321. As a part of this project I have reestablished the locations of the existing property lines and centerline of existing Right of Way for property takes contained herein. All of my work contained herein was conducted in accordance with Ohio Administrative Code 4733-37 commonly known as "A Minimum Standards for Boundary Surveys in the State of Ohio" unless noted. The words I and my as used herein are to mean either myself or someone working under my direct supervision.

Mark S. Ward, Professional Land Surveyor No. S-7514, Date: 10-20-14

STATE OF OHIO
SURVEYORS SEAL
MARK S. WARD 7514
REGISTERED SURVEYOR

FEDERAL PROJECT NO. E130623
PID NO. 94907
CALCULATED EJG
CHECKED MSW

RIGHT OF WAY LEGEND SHEET
FRA-62-1.64
1 / 19

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FRANKLIN COUNTY

PLEASANT TOWNSHIP

V.M.S. 931, V.M.S. 937 & V.M.S. 6178

NOTE: THE EXISTING R/W WIDTH AND LOCATION WERE DETERMINED USING: THE EXISTING CENTERLINES OF RIGHT-OF-WAY LINES SHOWN ARE BASED ON ODOT RECORD RIGHT OF WAY PLANS "FRANKLIN COUNTY S.H. 50 SEC. H-2 & H-3(PT)", ODOT R/W PLANS PIC-1-3.06 FRA-1-0.00 FROM THE DEPARTMENT OF TRANSPORTATION DISTRICT 6 OFFICE, MONUMENTATION FOUND DURING FIELD SURVEY, RECORD DOCUMENTS FROM THE FRANKLIN COUNTY RECORDER'S OFFICE AND PARCELS RECORDS FROM FRANKLIN COUNTY AUDITOR'S OFFICE.

MONUMENT LEGEND

- AXLE EXISTING AXLE FOUND
- EXISTING CONCRETE MONUMENT
- I.P.F. IRON PIN FOUND
- I.P.S. IRON PIN SET W/ ID CAP
- P.F. IRON PIPE FOUND
- M.N.F. MAG NAIL FOUND
- M.N.S. MAG NAIL SET

BASIS FOR BEARINGS:

ALL BEARINGS SHOWN ARE FOR PROJECT USE ONLY.

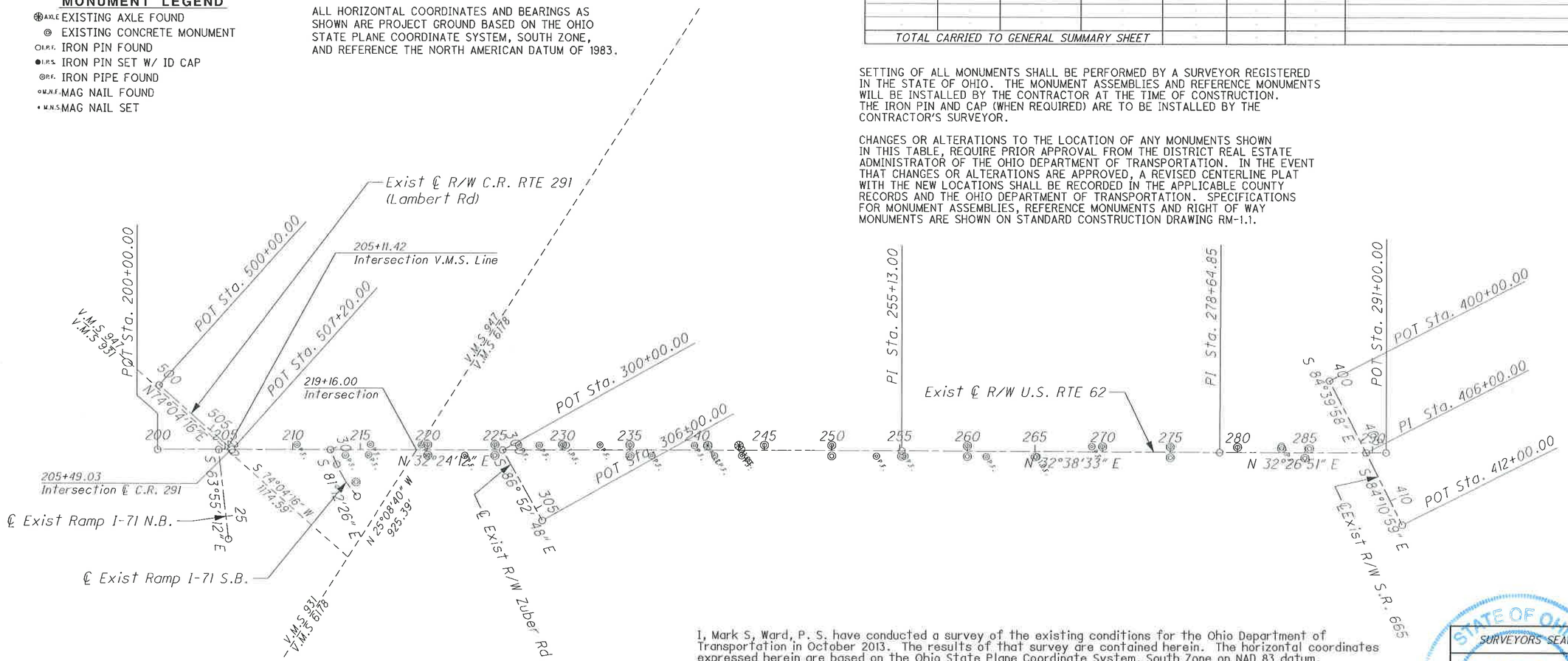
ALL HORIZONTAL COORDINATES AND BEARINGS AS SHOWN ARE PROJECT GROUND BASED ON THE OHIO STATE PLANE COORDINATE SYSTEM, SOUTH ZONE, AND REFERENCE THE NORTH AMERICAN DATUM OF 1983.

MONUMENT TABLE

℄ of EXIST R/W U.S. 62		PROJECT COORDINATES SEE SURVEY CERTIFCATION		MONUMENTS TO BE SET DURING CONSTRUCTION		R/W MON. EXPECTED TO BE DISTURBED	
STATION	OFFSET	NORTH (Y)	EAST (X)	MON. ASSY.	REF. MON.	R/W MON.	DESCRIPTION
TOTAL CARRIED TO GENERAL SUMMARY SHEET							

SETTING OF ALL MONUMENTS SHALL BE PERFORMED BY A SURVEYOR REGISTERED IN THE STATE OF OHIO. THE MONUMENT ASSEMBLIES AND REFERENCE MONUMENTS WILL BE INSTALLED BY THE CONTRACTOR AT THE TIME OF CONSTRUCTION. THE IRON PIN AND CAP (WHEN REQUIRED) ARE TO BE INSTALLED BY THE CONTRACTOR'S SURVEYOR.

CHANGES OR ALTERATIONS TO THE LOCATION OF ANY MONUMENTS SHOWN IN THIS TABLE, REQUIRE PRIOR APPROVAL FROM THE DISTRICT REAL ESTATE ADMINISTRATOR OF THE OHIO DEPARTMENT OF TRANSPORTATION. IN THE EVENT THAT CHANGES OR ALTERATIONS ARE APPROVED, A REVISED CENTERLINE PLAT WITH THE NEW LOCATIONS SHALL BE RECORDED IN THE APPLICABLE COUNTY RECORDS AND THE OHIO DEPARTMENT OF TRANSPORTATION. SPECIFICATIONS FOR MONUMENT ASSEMBLIES, REFERENCE MONUMENTS AND RIGHT OF WAY MONUMENTS ARE SHOWN ON STANDARD CONSTRUCTION DRAWING RM-1.1.



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Mark S. Ward, Professional Land Surveyor No. S-7514,

Date: 10-20-14

STATE OF OHIO SURVEYORS SEAL MARK S. WARD 7514 REGISTERED SURVEYOR

RECEIVED _____, 20___
RECORDED _____, 20___
BOOK _____ PAGE _____
COUNTY RECORDER

HORIZONTAL SCALE IN FEET 0 200 400 800

PID NO. 94907

R/W DESIGNER EJG
R/W REVIEWER MSW

CENTERLINE PLAT

FRA-62-1.64

2 / 19

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FRANKLIN COUNTY
PLEASANT TOWNSHIP
V.M.S. 931, V.M.S. 947 & V.M.S. 6178

BEGIN ACQUISITION
STA 215+29.40

END ACQUISITION
STA 271+77.08

17 230-001571-00
16 230-001573-00
15 230-001575-00
14 230-001580-00
13 230-001582-00
12 230-001588-00
11 230-001589-00
230-001590-00
10 230-001591-00
9 230-001592-00
8 230-001593-00
7 230-001594-00
230-001598-00
230-002208-00
4 230-000712-00
2 230-001119-00
230-000084-00
230-000439-00
28 230-000049-00
3 230-000985-00
Exist L/A R/W I-71
230-000282-00
Exist S/H R/W C.R. 291
230-000029-00
230-000264-00
Exist L/A R/W I-71 NB Ramp
230-000264-00
230-003049-00

21 230-001564-00
20 230-001565-00
19 230-001567-00
18 230-001569-00
230-001568-00
230-000318-00
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5
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230-001523-00
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230-001513-00
24
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230-000599-00
Exist ℄ R/W U.S. RTE 62
Exist S/H R/W U.S. 62
Exist R/W S.R. 665
230-002107-00
Exist S/H R/W U.S. 62
Exist R/W S.R. 665
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230-000687-00
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230-001524-00
230-001509-00
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230-002221-00

V.M.S. 947
V.M.S. 6178
V.M.S. 931
V.M.S. 947
V.M.S. 6178

OWNERSHIP AND NUMBER:

1 STATE OF OHIO
2 ZG FUEL, LLC
3 B&B INDUSTRIES, INC.
4 DAVID W. HESSLER
5 ANDREW J. SHAW AND KRISTA J.SHAW
6 RONALD J. SHAW AND BELINDA K. SHAW
7 RICHARD L. WILLIS AND KATHYRYN L. WILLIS
8 RICHARD L. WILLIS
9 RICHARD L. WILLIS AND KATHY L. WILLIS
10 RHONDA COUNTS
11 JOSEPH D. CANTERBURY AND EDITH A. CANTERBURY
12 MARY CLEVENGER
13 DAVID M. THOMPSON AND CAROL A. THOMPSON

OWNERSHIP AND NUMBER (CONTINUED):

14 DOROTHY M. HOELKER
15 DONNY NAEGEL
16 DAVID RICHARDS AND LUCINDA RICHARDS
17 KIPP B. HITCHCOCK AND CHERYL L. HITCHCOCK
18 MOREHART, INC.
19 ROGER W. WILLIS, JR.
20 OLIVE GINSBERG
21 COREY MATHIS
22 KENNETH A. SNYDER, SR.
23 GATEWAY FARMS, LTD
24 DAVID ESWORTHY
25 JOHN HARTIG AND ROSINA HARTIG
26 SOLID WASTE AUTHORITY OF CENTRAL OHIO
27 MORBITZER FAMILY, LLC
28 CHRISTINE E. SMITH
29 GANTZ FARM, LLC

HORIZONTAL SCALE IN FEET
0 200 400 800

PID NO. 94907

R/W DESIGNER EJG
R/W REVIEWER MSW

PROPERTY MAP

FRA-62-1.64

3 / 19

REV. BY	DATE	DESCRIPTION
DATE COMPLETED		

P:\DWG\DEPT9\W13-081 ODOT FRA-62-1.64\FRA\94907\row\sheets\94907RM001.dgn 10/20/2014 8:44:07 AM earig

TOTAL NUMBER OF :

10 OWNERSHIPS 0 TOTAL TAKES

13 PARCELS 0 OWNERSHIPS W/ STRUCTURES INVOLVED

NET RESIDUE = RECORD AREA - TOTAL PRO - NET TAKE

ALL AREAS IN ACRES

GRANTEE:

ALL RIGHT OF WAY ACQUIRED IN THE NAME OF
THE STATE OF OHIO DEPARTMENT OF TRANSPORTATION
UNLESS OTHERWISE SHOWN.

PARCEL NO.	OWNER	SHEET NO.	OWNERS RECORD	AUDITOR'S PARCEL	RECORD AREA	TOTAL P.R.O.	GROSS TAKE	P.R.O. IN TAKE	NET TAKE	STRUCTURE	NET RESIDUE LEFT	NET RESIDUE RIGHT	TYPE FUND	REMARKS	AS ACQUIRED INSTRUMENT NUMBER	
1	STATE OF OHIO	6, 7	DB 2447 PG 657		4.299	0.000	0.000	0.000	0.000					NO TAKE - TRIM BUSHES TO PERFORM WORK		
2	ZG FUEL, LLC	7, 8	200810080150627	230-001119-00	1.147	0.000	0.000	0.000	0.000					NO TAKE - *RAILROAD TIES, *SHRUBS (11 TOTAL)		
3-T	B&B INDUSTRIES, INC.	7, 8	OR 24884 E07	230-000985-00	4.663	0.000	0.010	0.000	0.010	NO	4.663			TO COMPLETE GRADING		
4-T	DAVID W. HESSLER	9	OR 28318 D04	230-000712-00	0.930	0.000	0.046	0.000	0.046					TO COMPLETE GRADING - *50.5' OF FENCE, *WOOD SIGN		
5	ANDREW J. SHAW AND KRISTA J. SHAW	9	200508050158290	230-000281-00	80.177	0.000	0.000	0.000	0.000	NO	80.177			NO TAKE		
6	RONALD J. SHAW AND BELINDA K. SHAW	9	200507150139931	230-000318-00	52.393	0.000	0.000	0.000	0.000					NO TAKE		
7	RICHARD L. WILLIS AND KATHYRYN L. WILLIS	10	OR 25880 B01	230-001594-00	2.077	0.000	0.000	0.000	0.000	NO	2.077			NO TAKE - *TRIM BUSHES, TAKE 1 TREE		
8	RICHARD L. WILLIS	10	DB 3174 PG 55	230-001593-00	0.554	0.000	0.000	0.000	0.000					NO TAKE		
9	RICHARD L. WILLIS AND KATHY L. WILLIS	10	OR 21453 C20	230-001592-00	0.553	0.000	0.000	0.000	0.000					NO TAKE		
10	RHONDA COUNTS	10	201211190175786	230-001591-00	0.553	0.000	0.000	0.000	0.000					NO TAKE - *TAKE STUMP		
11-T	JOSEPH D. CANTERBURY	10	200311030351229	230-001590-00	0.552	0.000	0.005	0.000	0.005					TO COMPLETE GRADING - *TAKE STUMP		
	AND EDITH A. CANTERBURY			230-001589-00	0.552											
	TOTAL				1.104					NO	1.104					
12	MARY CLEVENGER	10; 11	200202253349467	230-001588-00	0.568	0.000	0.000	0.000	0.000					NO TAKE		
13-T1	DAVID M. THOMPSON AND CAROL A. THOMPSON	11	200611280237527	230-001582-00	2.096	0.000	0.003	0.000	0.003					TO COMPLETE GRADING		
13-T2		11	200611280237527				0.008		0.008					TO COMPLETE GRADING		
	TOTAL						0.011		0.011	NO	2.096					
14	DOROTHY M. HOELKER	11	OR 1347 D08	230-001580-00	2.244	0.000	0.000	0.000	0.000					NO TAKE		
15-T	DONNY NAEGEL	12	200803040033275	230-001575-00	2.175	0.000	0.004	0.000	0.004	NO	2.175			TO COMPLETE GRADING		
16	DAVID RICHARDS AND LUCINDA RICHARDS	12	200901060001383	230-001574-00	0.546	0.000	0.000	0.000	0.000					NO TAKE		
				230-001573-00	0.544	0.000	0.000	0.000	0.000					NO TAKE - *TAKE 1 SHRUB		
				230-001572-00	0.544	0.000	0.000	0.000	0.000							
	TOTAL				1.634											
17	KIPP B. HITCHCOCK AND CHERYL L. HITCHCOCK	12	OR 16421 F13	230-001571-00	0.544	0.000	0.000	0.000	0.000					NO TAKE		
				230-001570-00	0.544											
	TOTAL				1.088									NO TAKE		
18	MOREHART, INC.	12, 13	DB 3600 PG 23	230-001569-00	0.543	0.000	0.000	0.000	0.000					NO TAKE		
		12, 13		230-001568-00	0.543											
	TOTAL				0.538											
19	ROGER W. WILLIS, JR.	13	OR 595 A05	230-001567-00	0.543	0.000	0.000	0.000	0.000					NO TAKE, *25' OF WOVEN WIRE FENCE		
20	OLIVE GINSBERG	13	2000011000006773	230-001565-00	1.066	0.000	0.000	0.000	0.000					NO TAKE		
21	COREY MATHIS	13	200805280081441	230-001564-00	0.542	0.000	0.000	0.000	0.000					NO TAKE		
				230-001563-00	0.540	0.000										
	TOTAL				1.082											
22-T	KENNETH A. SNYDER, SR.	13,14;15,16	200309260308248	230-003292-00	16.451	0.000	0.004	0.000	0.004	NO	16.451			TO COMPLETE GRADING		

TYPES OF TITLE LEGEND:

T = TEMPORARY EASEMENT

NOTE: ALL TEMPORARY PARCELS TO BE OF 12 MONTH DURATION.

NOTE: UNDER NO CIRCUMSTANCES ARE TEMPORARY EASEMENTS TO BE USED FOR STORAGE OF MATERIAL OR EQUIPMENT BY THE CONTRACTOR UNLESS NOTED OTHERWISE.

* DENOTES RIGHT OF WAY ENCROACHMENT

REV. BY	DATE	DESCRIPTION

DATE COMPLETED

FEDERAL PROJECT NO. E130623

PID NO. 94907

STATE JOB NO. 467297

R/W DESIGNER EJG

R/W REVIEWER MSW

SUMMARY OF ADDITIONAL RIGHT OF WAY (PARCELS 1-22)

FRA-62-1.64

NET RESIDUE = RECORD AREA - TOTAL PRO - NET TAKE

GRANTEE:

ALL RIGHT OF WAY ACQUIRED IN THE NAME OF
THE STATE OF OHIO DEPARTMENT OF TRANSPORTATION
UNLESS OTHERWISE SHOWN.

ALL AREAS IN ACRES

PARCEL NO.	OWNER	SHEET NO.	OWNERS RECORD	AUDITOR'S PARCEL	RECORD AREA	TOTAL P.R.O.	GROSS TAKE	P.R.O. IN TAKE	NET TAKE	STRUCTURE	NET RESIDUE LEFT	NET RESIDUE RIGHT	TYPE FUND	REMARKS	AS ACQUIRED INSTRUMENT NUMBER
23-T1	GATEWAY ACRES, LTD	16, 17, 18	199804280100682	230-001523-00	102.921	0.000	0.004	0.000	0.004	-	-	-	-	TO COMPLETE GRADING	
23-T2	(+) INST: 199804280100684 & 199804280100692	16, 17, 18	-	-	-	0.000	0.004	0.000	0.004	-	-	-	-	TO COMPLETE GRADING	
23-T3	-	16, 17, 18	-	-	-	0.000	0.003	0.000	0.003	-	-	-	-	TO COMPLETE GRADING - *TRIM BUSHES	
-	TOTAL	-	-	-	-	-	0.011	-	0.003	NO	102.921	-	-	-	
24	DAVID ESWORTHY	18; 19	201309180150748	230-000450-00	1.791	0.000	0.000	0.000	0.000	-	-	-	-	NO TAKE	
25-T	JOHN HARTIG AND ROSINA HARTIG	19	DB 3584 PG 806	230-001513-00	144.777	0.000	0.021	0.000	0.021	NO	144.777	-	-	TO COMPLETE GRADING - *TRIM BUSHES	
26-T	SOLID WASTE AUTHORITY OF CENTRAL OHIO	14	201101310015617	230-002180-00	14.000	0.005	0.005	0.000	0.005	NO	-	14.000	-	TO COMPLETE GRADING - *56' OF WOVEN WIRE FENCE	
27	MORBITZER FAMILY, LLC	14	201305140079074	230-002182-00	8.000	0.000	0.000	0.000	0.000	-	-	-	-	NO TAKE	
28	CHRISTINE E. SMITH	8	201206040078304	230-000439-00	8.000	0.000	0.000	0.000	0.000	-	-	-	-	NO TAKE - *TAKE 8 SHRUBS	
29	GANTZ FARMS, LLC	18	201012150170222	230-001524-00	73.000	0.000	0.003	0.000	0.003	-	-	-	-	TO COMPLETE GRADING	

TYPES OF TITLE LEGEND:

T = TEMPORARY EASEMENT

NOTE: ALL TEMPORARY PARCELS TO BE OF 12 MONTH DURATION.

NOTE: UNDER NO CIRCUMSTANCES ARE TEMPORARY EASEMENTS TO BE USED FOR STORAGE OF MATERIAL OR EQUIPMENT BY THE CONTRACTOR UNLESS NOTED OTHERWISE.

* DENOTES RIGHT OF WAY ENCROACHMENT

REV. BY	DATE	DESCRIPTION

DATE COMPLETED

FEDERAL PROJECT NO. E130623

PID NO. 94907

STATE JOB NO. 467297

R/W DESIGNER EJG

R/W REVIEWER MSW

SUMMARY OF ADDOTIONAL RIGHT OF WAY (PARCELS 23-29)

FRA-62-1.64

5 / 19

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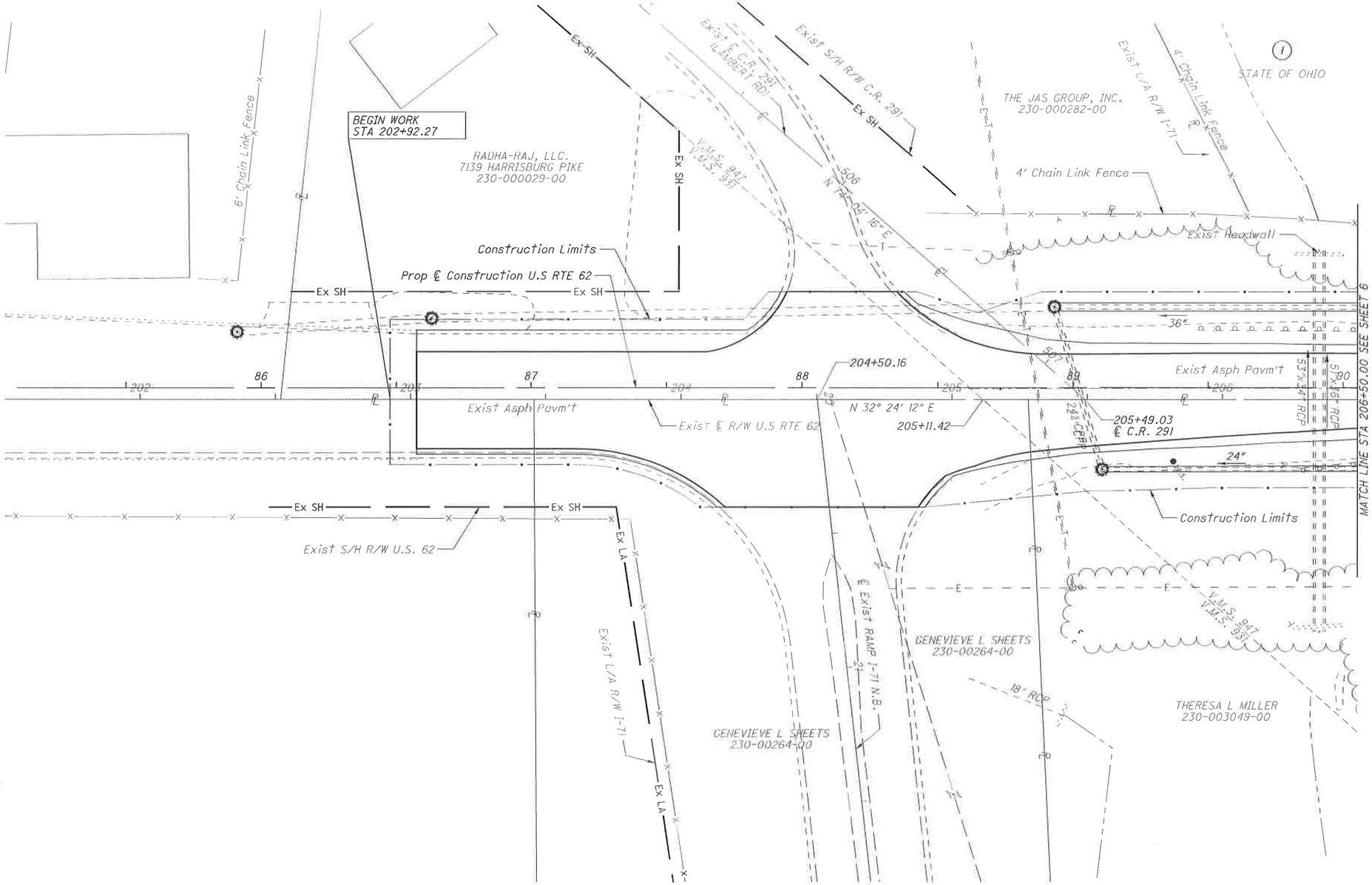
FRANKLIN COUNTY
PLEASANT TOWNSHIP
V.M.S. 931, V.M.S. 947 & V.M.S. 6178



REV. BY	DATE	DESCRIPTION
DATE COMPLETED		

RIGHT OF WAY PLAN
STA 202+00.00 TO STA 206+50.00

FRA-62-1.64

6 / 19

HORIZONTAL SCALE IN FEET
0 10 20 40

PID NO. 94907

R/W DESIGNER EJG
R/W REVIEWER MSW

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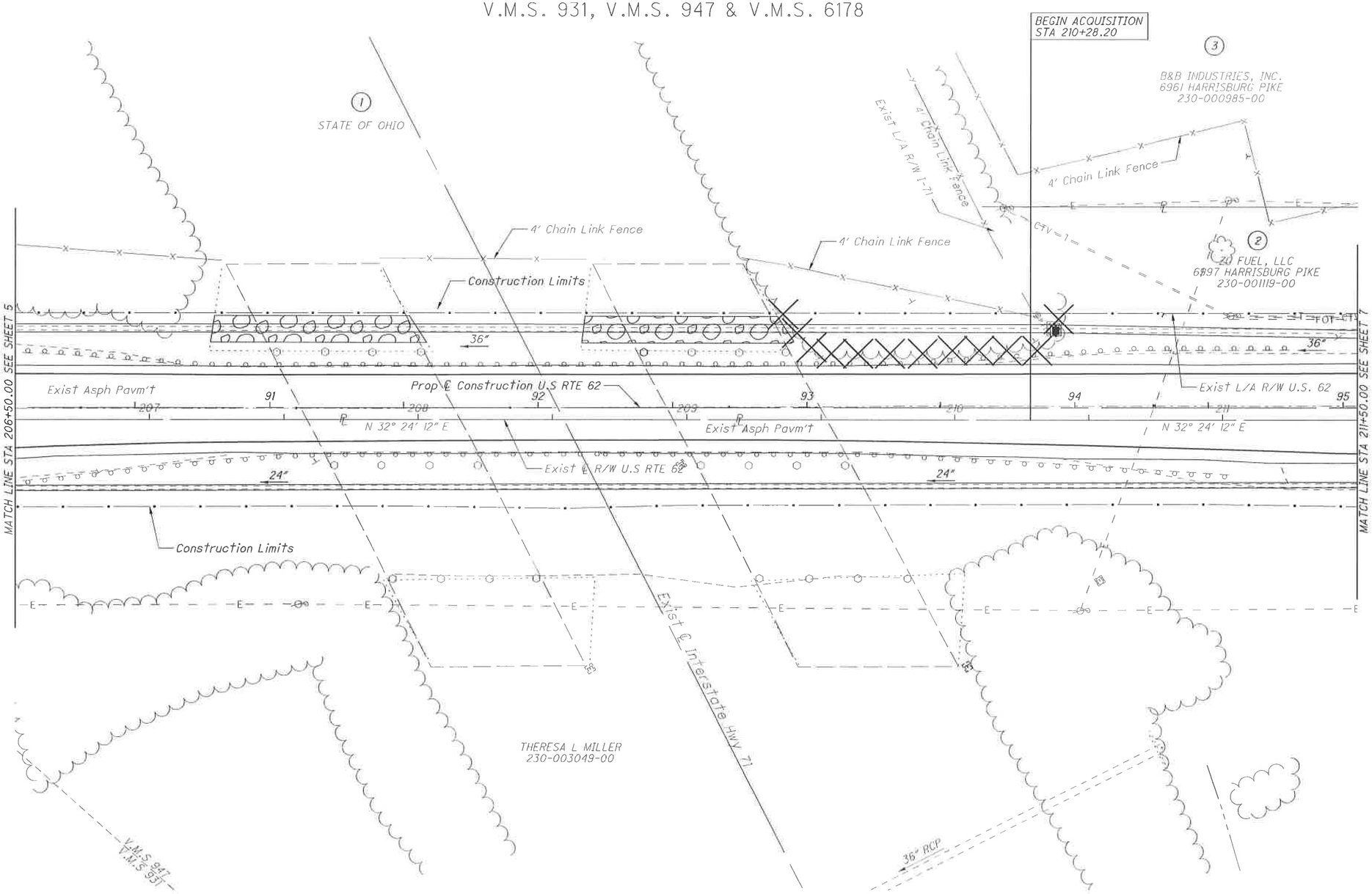
FRANKLIN COUNTY
PLEASANT TOWNSHIP
V.M.S. 931, V.M.S. 947 & V.M.S. 6178



REV. BY	DATE	DESCRIPTION
DATE COMPLETED		

HORIZONTAL SCALE IN FEET
0 10 20 40

PID NO. 94907

R/W DESIGNER EJG
R/W REVIEWER MSW

RIGHT OF WAY PLAN
STA 206+50.00 TO STA 211+50.00

FRA-62-1.64

7 / 19

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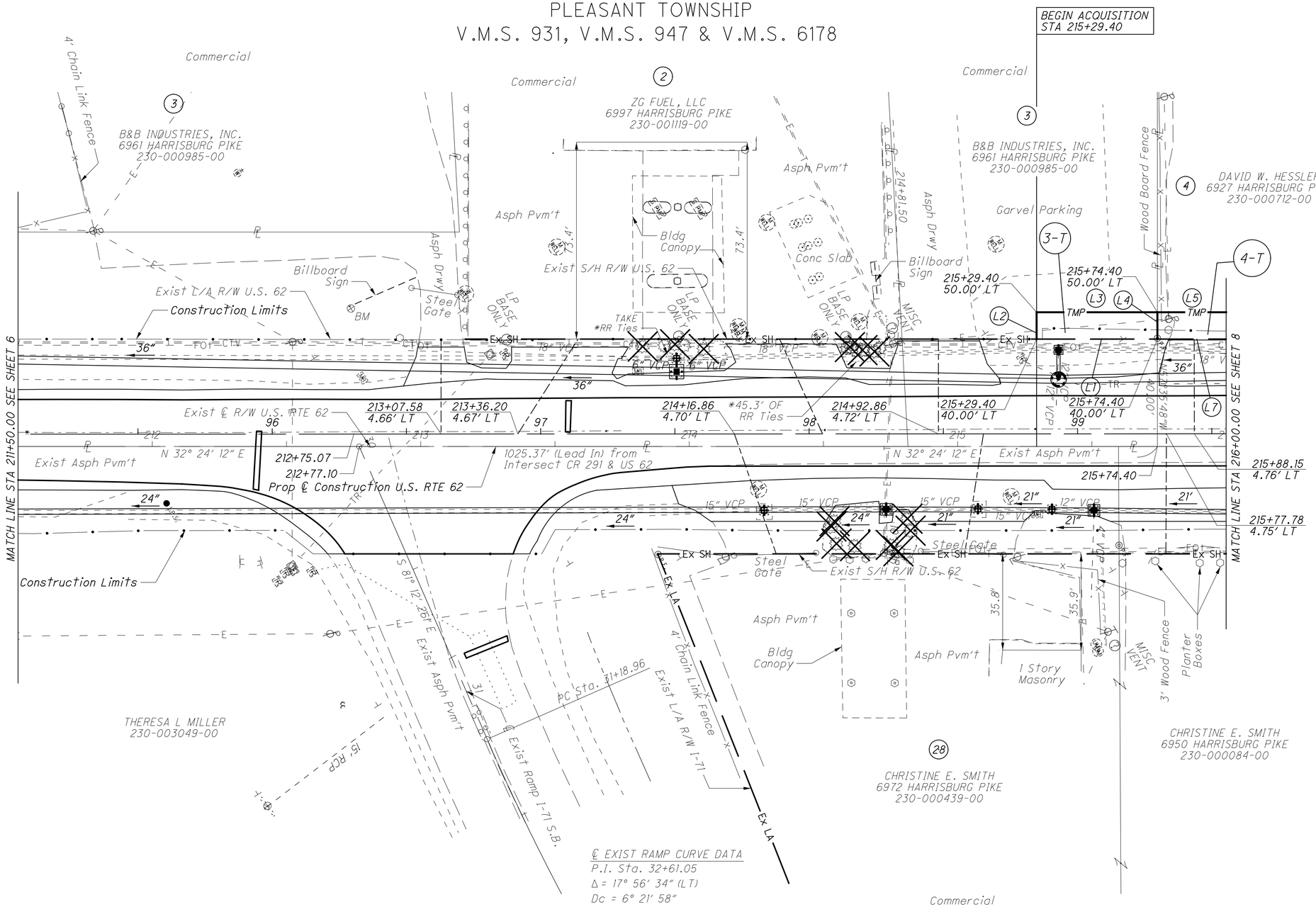
FRANKLIN COUNTY
PLEASANT TOWNSHIP
V.M.S. 931, V.M.S. 947 & V.M.S. 6178



TEMPORARY EASEMENT 3-T DATA		
L#	BEARING	DISTANCE
L1	S 32° 24' 12" W	45.00'
L2	N 57° 35' 48" W	10.00'
L3	N 32° 24' 12" E	45.00'
L4	S 57° 35' 48" E	10.00'

TEMPORARY EASEMENT 4-T DATA		
L#	BEARING	DISTANCE
L4	N 57° 35' 48" W	10.00'
L5	N 32° 24' 12" E	200.00'
L6	S 57° 35' 48" E	10.00'
L7	S 32° 24' 12" W	200.00'

℄ EXIST RAMP CURVE DATA
P.I. Sta. 32+61.05
Δ = 17° 56' 34" (LT)
Dc = 6° 21' 58"
R = 900.00'
T = 142.08'
L = 281.84'
E = 11.15'
C = 280.69'
C.B. = N 89° 49' 17" E

REV. BY	DATE	DESCRIPTION
DATE COMPLETED		

HORIZONTAL SCALE IN FEET
0 10 20 40

PID NO. 94907

R/W DESIGNER EJG
R/W REVIEWER MSW

RIGHT OF WAY PLAN
STA 211+50.00 TO STA 216+00.00

FRA-62-1.64

8 / 19

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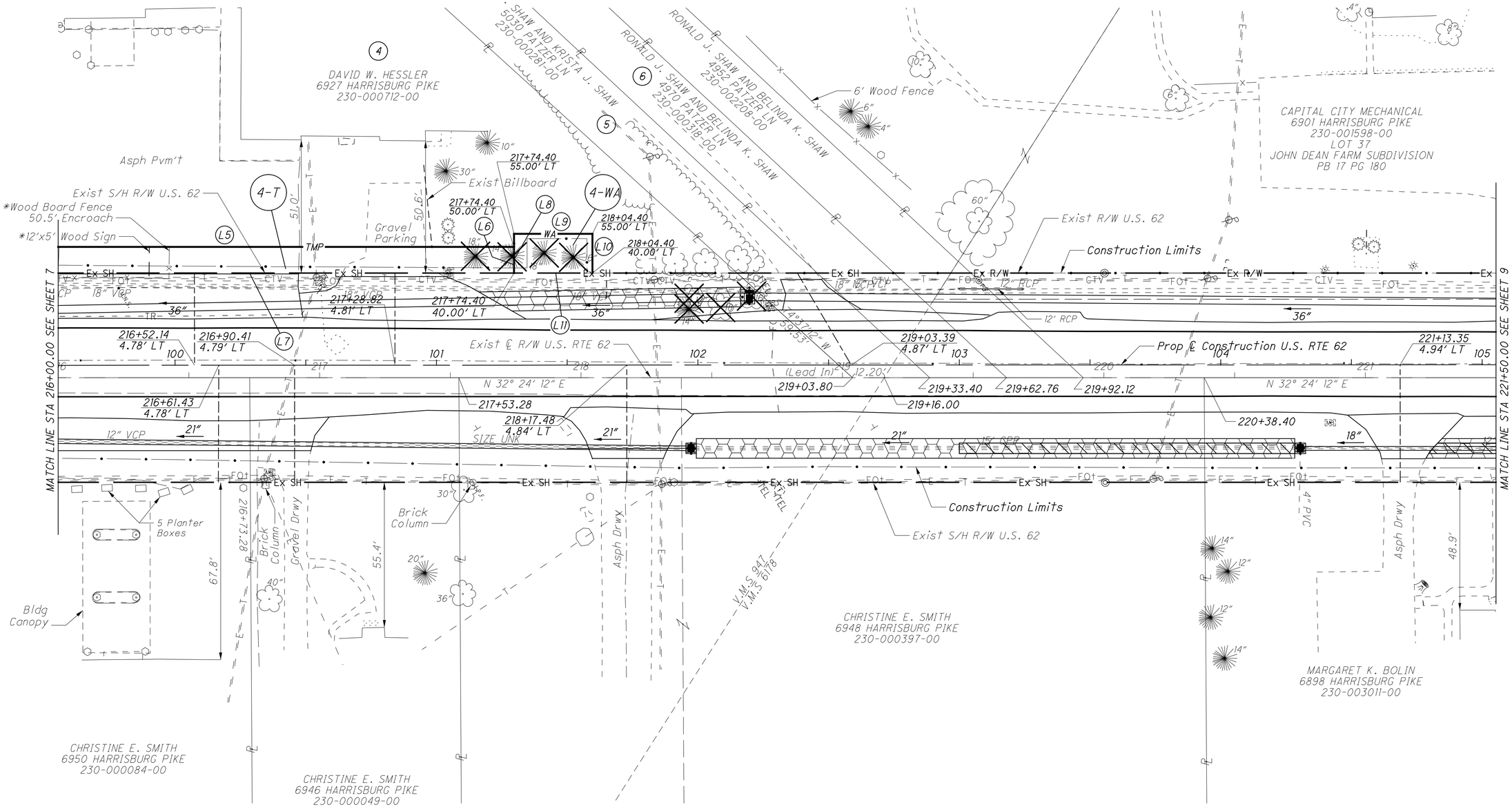
FRANKLIN COUNTY
PLEASANT TOWNSHIP
V.M.S. 931, V.M.S. 947 & V.M.S. 6178



TEMPORARY EASEMENT 4-T DATA		
L#	BEARING	DISTANCE
L4	N 57° 35' 48" W	10.00'
L5	N 32° 24' 12" E	200.00'
L6	S 57° 35' 48" E	10.00'
L7	S 32° 24' 12" W	200.00'

WORK AGREEMENT 4-WA DATA		
L#	BEARING	DISTANCE
L8	N 57° 35' 48" W	15.00'
L9	N 32° 24' 12" E	30.00'
L10	S 57° 35' 48" E	15.00'
L11	S 32° 24' 12" W	30.00'

REV. BY	DATE	DESCRIPTION
EJG	8-05-15	ADDED AREA OF WORK AGREEMENT
EJG	7-29-15	ADDED REMOVE SYM., 2 TREES ON 4-T
DATE COMPLETED		

HORIZONTAL SCALE IN FEET
0 10 20 40

PID NO. 94907

R/W DESIGNER EJG
R/W REVIEWER MSW

RIGHT OF WAY PLAN
STA 216+00.00 TO STA 221+50.00

FRA-62-1.64

9 / 19

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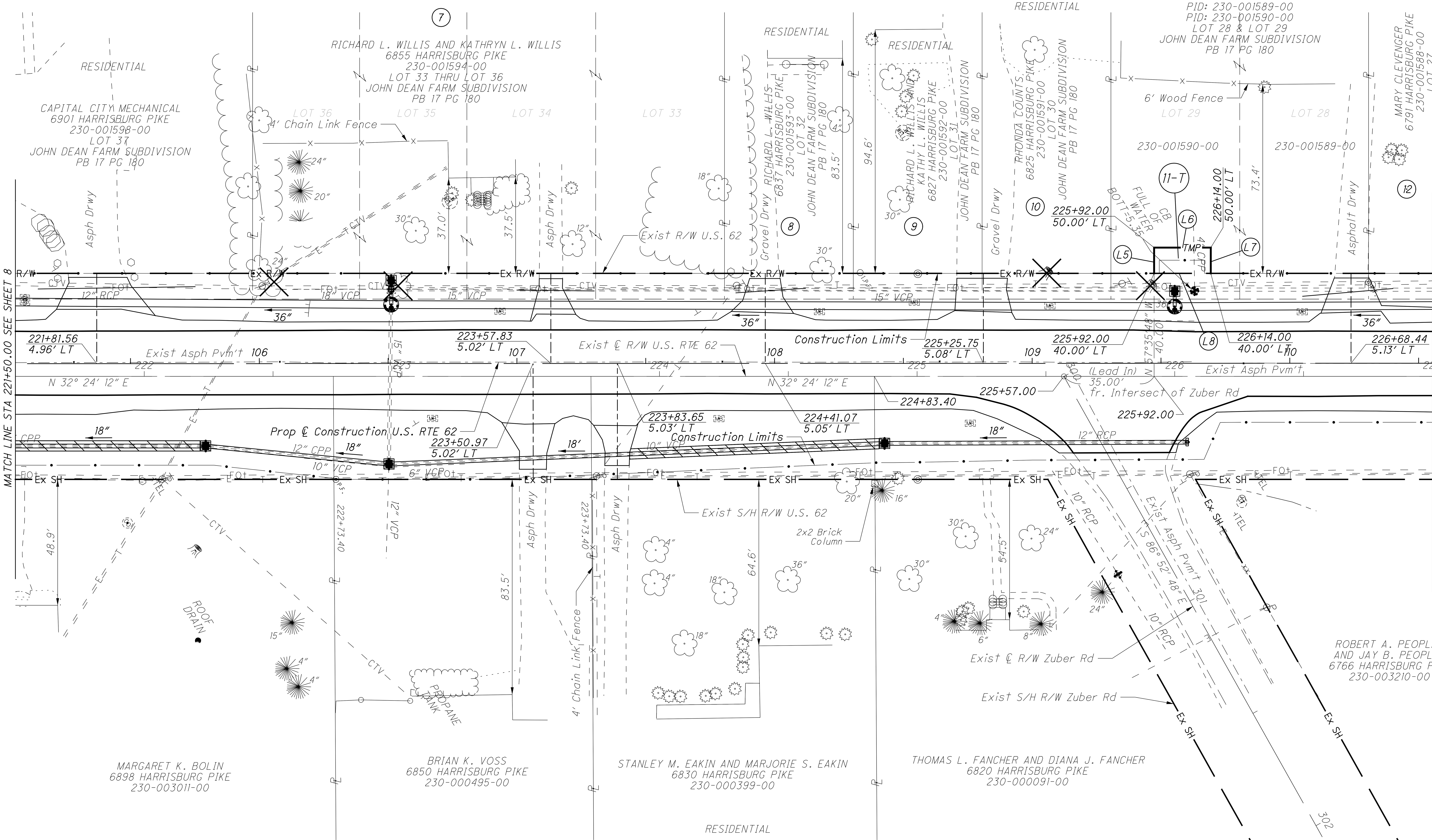
FRANKLIN COUNTY
PLEASANT TOWNSHIP
V.M.S. 931, V.M.S. 947 & V.M.S. 6178



RESIDENTIAL
CAPITAL CITY MECHANICAL
6901 HARRISBURG PIKE
230-001598-00
LOT 37
JOHN DEAN FARM SUBDIVISION
PB 17 PG 180
7
RICHARD L. WILLIS AND KATHRYN L. WILLIS
6855 HARRISBURG PIKE
230-001594-00
LOT 33 THRU LOT 36
JOHN DEAN FARM SUBDIVISION
PB 17 PG 180
LOT 36
LOT 35
LOT 34
LOT 33
4' Chain Link Fence
RICHARD L. WILLIS
6837 HARRISBURG PIKE
230-001593-00
LOT 32
JOHN DEAN FARM SUBDIVISION
PB 17 PG 180
8
RICHARD L. WILLIS AND KATHY L. WILLIS
6827 HARRISBURG PIKE
230-001592-00
LOT 31
JOHN DEAN FARM SUBDIVISION
PB 17 PG 180
9
RHONDA COUNTS
6825 HARRISBURG PIKE
230-001591-00
LOT 30
JOHN DEAN FARM SUBDIVISION
PB 17 PG 180
10
H
JOSEPH D. CANTERBURY AND EDITH A. CANTERBURY
6815 HARRISBURG PIKE
PID: 230-001589-00
PID: 230-001590-00
LOT 28 & LOT 29
JOHN DEAN FARM SUBDIVISION
PB 17 PG 180
6' Wood Fence
LOT 29
LOT 28
230-001590-00
230-001589-00
MARY CLEVENGER
6791 HARRISBURG PIKE
230-001588-00
LOT 27
JOHN DEAN FARM SUBDIVISION
PB 17 PG 180
12
11-T
TMP
L5
L6
L7
L8
CB FULL OF WATER BOTT=5.35
225+92.00
50.00' LT
226+14.00
50.00' LT
Asph Drwy
Gravel Drwy
Asphalt Drwy
Exist R/W U.S. 62
Ex R/W
CTV
FO
12" RCP
18" VCP
15" VCP
36"
MATCH LINE STA 221+50.00 SEE SHEET 8
MATCH LINE STA 227+00.00 SEE SHEET 10
221+81.56
4.96' LT
223+57.83
5.02' LT
Exist Asph Pvm't
106
107
108
109
110
Exist ℄ R/W U.S. RTE 62
Construction Limits
225+25.75
5.08' LT
225+92.00
40.00' LT
226+14.00
40.00' LT
226+68.44
5.13' LT
222
223
224
225
226
N 32° 24' 12" E
224+83.40
225+57.00
(Lead In)
35.00'
fr. Intersect of Zuber Rd
225+92.00
Exist Asph Pvm't
Prop ℄ Construction U.S. RTE 62
223+50.97
5.02' LT
223+83.65
5.03' LT
224+41.07
5.05' LT
18"
12" CPP
10" VCP
6" VCP
12" RCP
Ex SH
Exist S/H R/W U.S. 62
2x2 Brick Column
10" RCP
Exist Asph Pvm't
N 86° 52' 48" E
N 57° 35' 48" W
Exist ℄ R/W Zuber Rd
Exist S/H R/W Zuber Rd
ROOF DRAIN
PROPANE TANK
4' Chain Link Fence
48.9'
83.5'
64.6'
54.5'
37.0'
37.5'
83.5'
94.6'
73.4'
222+73.40
223+73.40
MARGARET K. BOLIN
6898 HARRISBURG PIKE
230-003011-00
BRIAN K. VOSS
6850 HARRISBURG PIKE
230-000495-00
STANLEY M. EAKIN AND MARJORIE S. EAKIN
6830 HARRISBURG PIKE
230-000399-00
THOMAS L. FANCHER AND DIANA J. FANCHER
6820 HARRISBURG PIKE
230-000091-00
ROBERT A. PEOPLES
AND JAY B. PEOPLES
6766 HARRISBURG PIKE
230-003210-00
RESIDENTIAL
300
301
302

TEMPORARY EASEMENT 11-T DATA		
L#	BEARING	DISTANCE
L5	N 57° 35' 48" W	10.00'
L6	N 32° 24' 12" E	22.00'
L7	S 57° 35' 48" E	10.00'
L8	S 32° 24' 12" W	22.00'

REV. BY	DATE	DESCRIPTION

DATE COMPLETED

HORIZONTAL SCALE IN FEET (0 10 20 40)

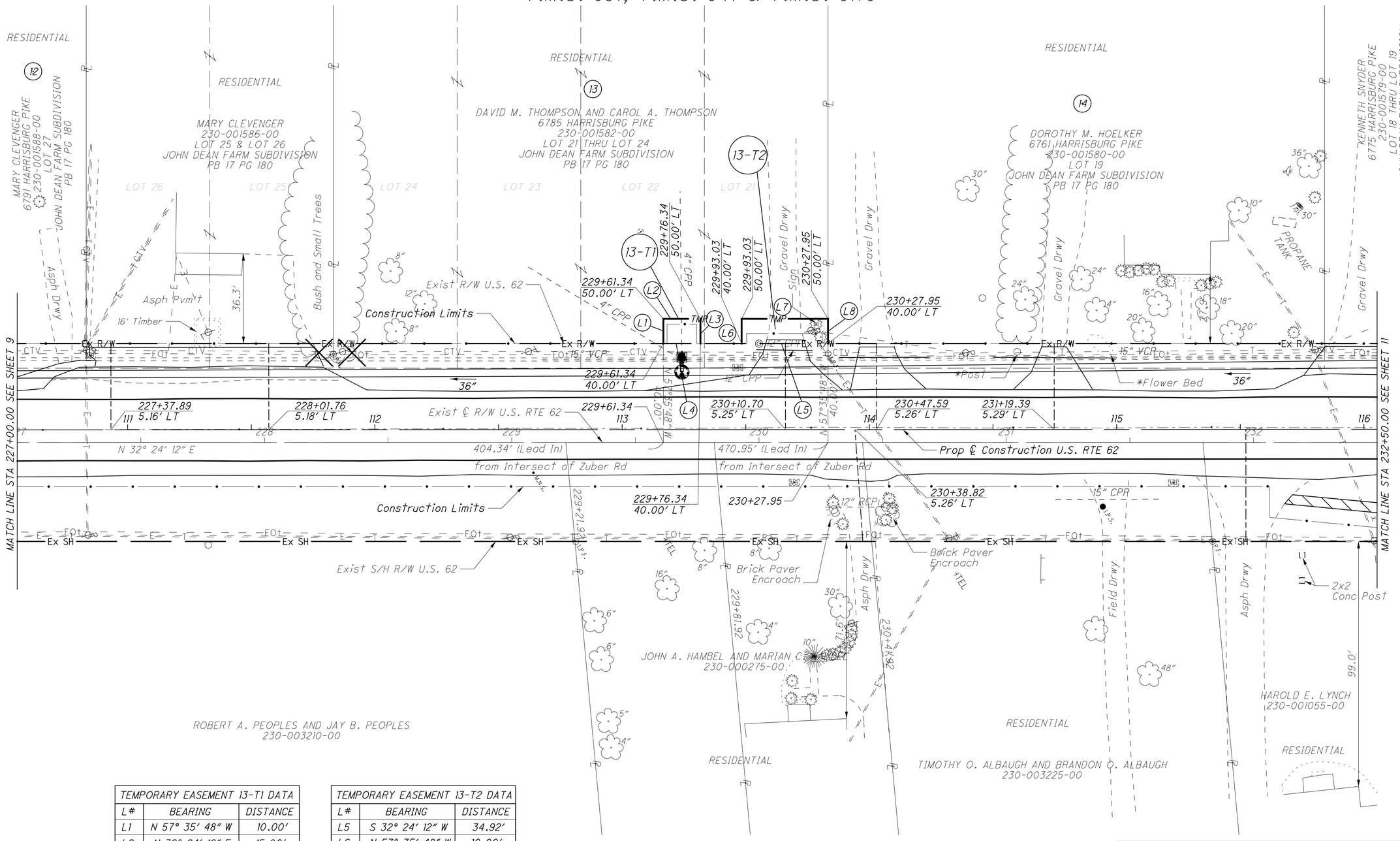
PID NO. 94907

R/W DESIGNER EJG
R/W REVIEWER MSW

RIGHT OF WAY PLAN
STA 221+50.00 TO STA 227+00.00

FRA-62-1.64

FRANKLIN COUNTY
PLEASANT TOWNSHIP
V.M.S. 931, V.M.S. 947 & V.M.S. 6178



TEMPORARY EASEMENT 13-T1 DATA		
L#	BEARING	DISTANCE
L1	N 57° 35' 48" W	10.00'
L2	N 32° 24' 12" E	15.00'
L3	S 57° 35' 48" E	10.00'
L4	S 32° 24' 12" W	15.00'

TEMPORARY EASEMENT 13-T2 DATA		
L#	BEARING	DISTANCE
L5	S 32° 24' 12" W	34.92'
L6	N 57° 35' 48" W	10.00'
L7	N 32° 24' 12" E	34.92'
L8	S 57° 35' 48" E	10.00'

REV. BY	DATE	DESCRIPTION
DATE COMPLETED		

HORIZONTAL SCALE IN FEET (0, 10, 20, 40)

PID NO. 94907

R/W DESIGNER EJG
R/W REVIEWER MSW

RIGHT OF WAY PLAN
STA 227+00.00 TO STA 232+50.00

FRA-62-1.64

11 / 19

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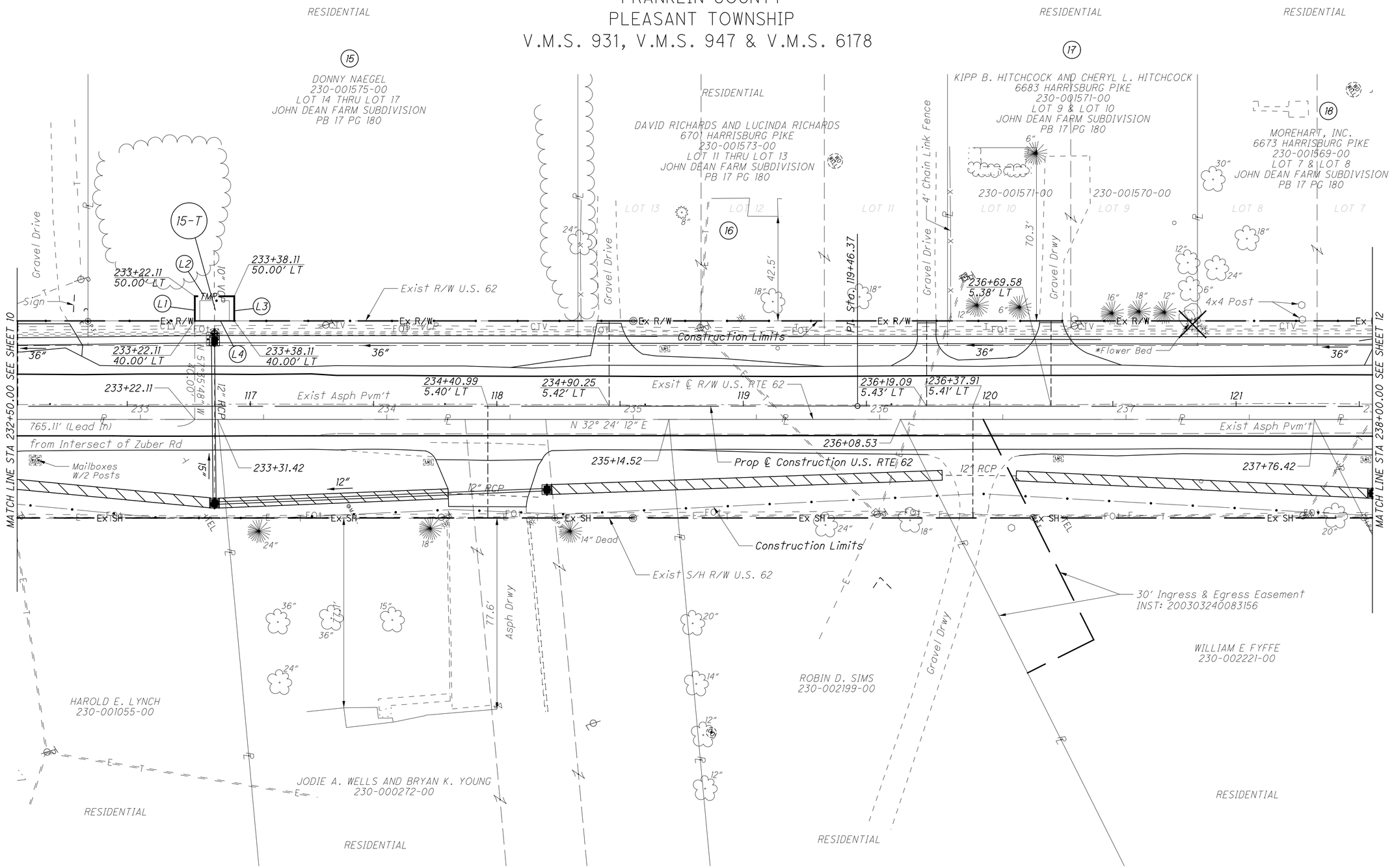
FRANKLIN COUNTY
PLEASANT TOWNSHIP
V.M.S. 931, V.M.S. 947 & V.M.S. 6178



TEMPORARY EASEMENT 15-T DATA		
L#	BEARING	DISTANCE
L1	N 57° 35' 48" W	10.00'
L2	N 32° 24' 12" E	16.00'
L3	S 57° 35' 48" E	10.00'
L4	S 32° 24' 12" W	16.00'

REV. BY	DATE	DESCRIPTION
DATE COMPLETED		

HORIZONTAL SCALE IN FEET
0 10 20 40

PID NO. 94907

R/W DESIGNER EJG
R/W REVIEWER MSW

RIGHT OF WAY PLAN
STA 232+50.00 TO STA 238+00.00

FRA-62-1.64

12 / 19

FRANKLIN COUNTY
PLEASANT TOWNSHIP
V.M.S. 931, V.M.S. 947 & V.M.S. 6178

RESIDENTIAL

RESIDENTIAL

RESIDENTIAL

RESIDENTIAL

CULTIVATED FIELD

(18) MOREHART, INC.
6673 HARRISBURG PIKE
230-001559-00
LOT 5 & LOT 8
JOHN DEAN FARM SUBDIVISION
PB 17 PG 180

(19) ROGER W. WILLIS, JR.
6667 HARRISBURG PIKE
230-001567-00
LOT 6
JOHN DEAN FARM SUBDIVISION
PB 17 PG 180

(20) OLIVE GINSBERG
6661 HARRISBURG PIKE
230-001565-00
LOT 4 & LOT 5
JOHN DEAN FARM SUBDIVISION
PB 17 PG 180

(21) COREY MATHIS
6643 HARRISBURG PIKE
230-001564-00
LOT 2 & LOT 3
JOHN DEAN FARM SUBDIVISION
PB 17 PG 180

COREY MATHIS
6631 HARRISBURG PIKE
230-001562-00
LOT 1
JOHN DEAN FARM SUBDIVISION
PB 17 PG 180

(22) KENNETH A. SNYDER, SR.
236-003292-00

MATCH LINE STA 238+00.00 SEE SHEET 11

MATCH LINE STA 243+50.00 SEE SHEET 13

Gravel Drwy

4' Woven Wire Fence

4' Barb/Woven Wire Fence

Asph Parking

LOT 3

LOT 2

Asph Drwy

ROOF DRAIN

Ex R/W

Exist R/W U.S. 62

Construction Limits

238+36.83
5.23' LT

238+11.71
5.25' LT

238+21.71
5.24' LT

239+28.08
5.14' LT

239+76.49

239+97.42
5.08' LT

240+92.17
5.00' LT

243+28.97

243+10.43

25' of Woven Wire Fence Encroach

Exist Asph Pvm't

Exist ℄ R/W U.S. RTE 62

N 32° 24' 12" E

Prop ℄ Construction U.S. RTE 62

Exist S/H R/W U.S. 62

16" Dead

Metal Gate

4' Woven Wire Fence

240+43.61

241+10.54

WILLIAM E FYFFE
230-002221-00

JACK W. CROCKETT AND DEANNA M. SHEETS
230-002233-00

JACQUELINE C. RICE
230-002234-00

SOLID WASTE AUTHORITY OF CENTRAL OHIO
230-002198-00

SOLID WASTE AUTHORITY OF CENTRAL OHIO
230-002197-00

RESIDENTIAL

RESIDENTIAL

RESIDENTIAL

CULTIVATED FIELD

CULTIVATED FIELD

REV. BY	DATE	DESCRIPTION
DATE COMPLETED		

HORIZONTAL SCALE IN FEET
0 10 20 40

R/W DESIGNER EJG
R/W REVIEWER MSW

PID NO. 94907

RIGHT OF WAY PLAN
STA 238+00.00 TO STA 243+50.00

FRA-62-1.64

13 / 19

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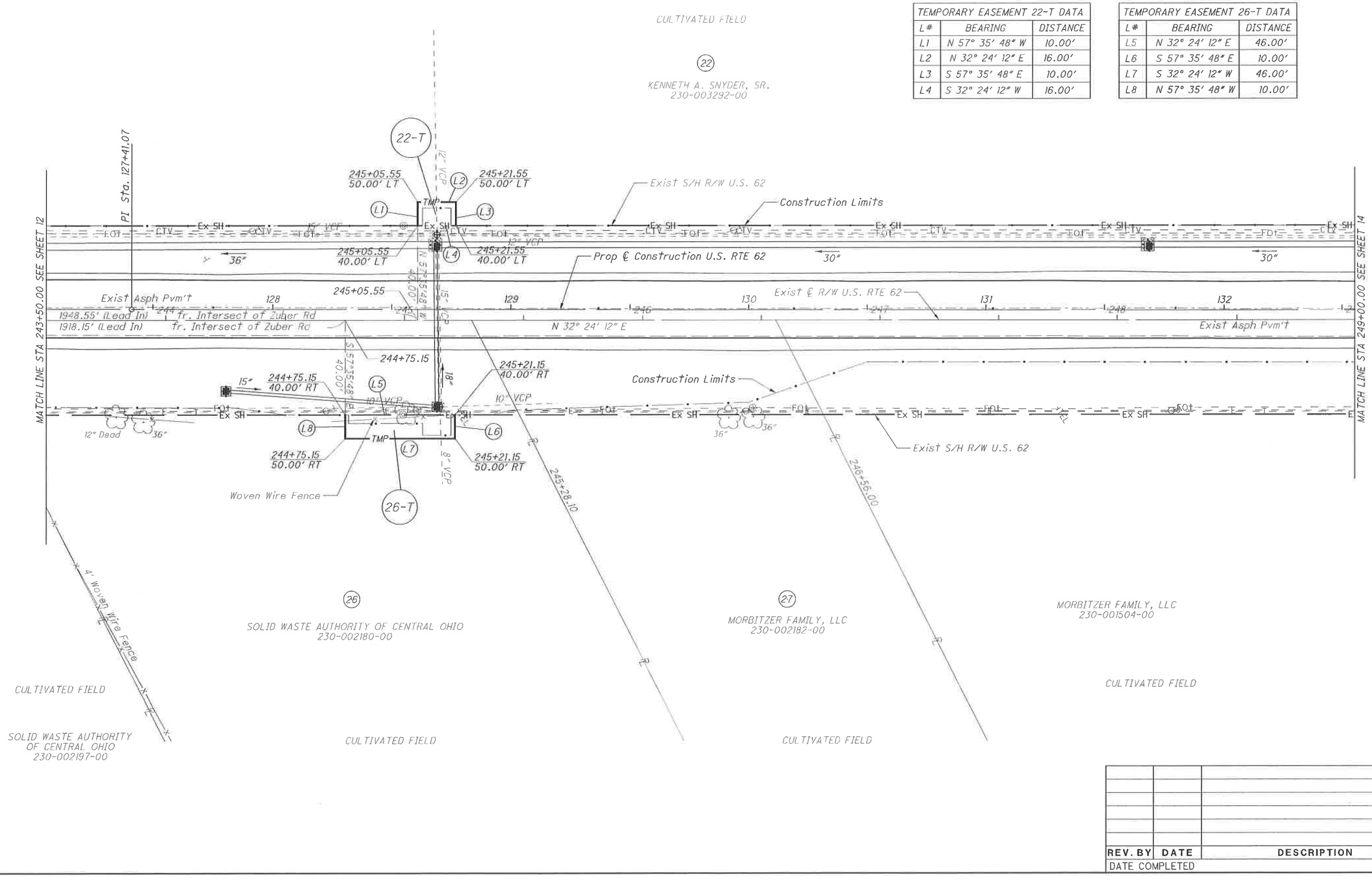
FRANKLIN COUNTY
PLEASANT TOWNSHIP
V.M.S. 931, V.M.S. 947 & V.M.S. 6178

TEMPORARY EASEMENT 22-T DATA		
L#	BEARING	DISTANCE
L1	N 57° 35' 48" W	10.00'
L2	N 32° 24' 12" E	16.00'
L3	S 57° 35' 48" E	10.00'
L4	S 32° 24' 12" W	16.00'

TEMPORARY EASEMENT 26-T DATA		
L#	BEARING	DISTANCE
L5	N 32° 24' 12" E	46.00'
L6	S 57° 35' 48" E	10.00'
L7	S 32° 24' 12" W	46.00'
L8	N 57° 35' 48" W	10.00'



REV. BY	DATE	DESCRIPTION
DATE COMPLETED		

HORIZONTAL SCALE IN FEET
0 10 20 40

PID NO. 94907

R/W DESIGNER EJG
R/W REVIEWER MSW

RIGHT OF WAY PLAN
STA 243+50.00 TO STA 249+00.00

FRA-62-1.64

14 / 19

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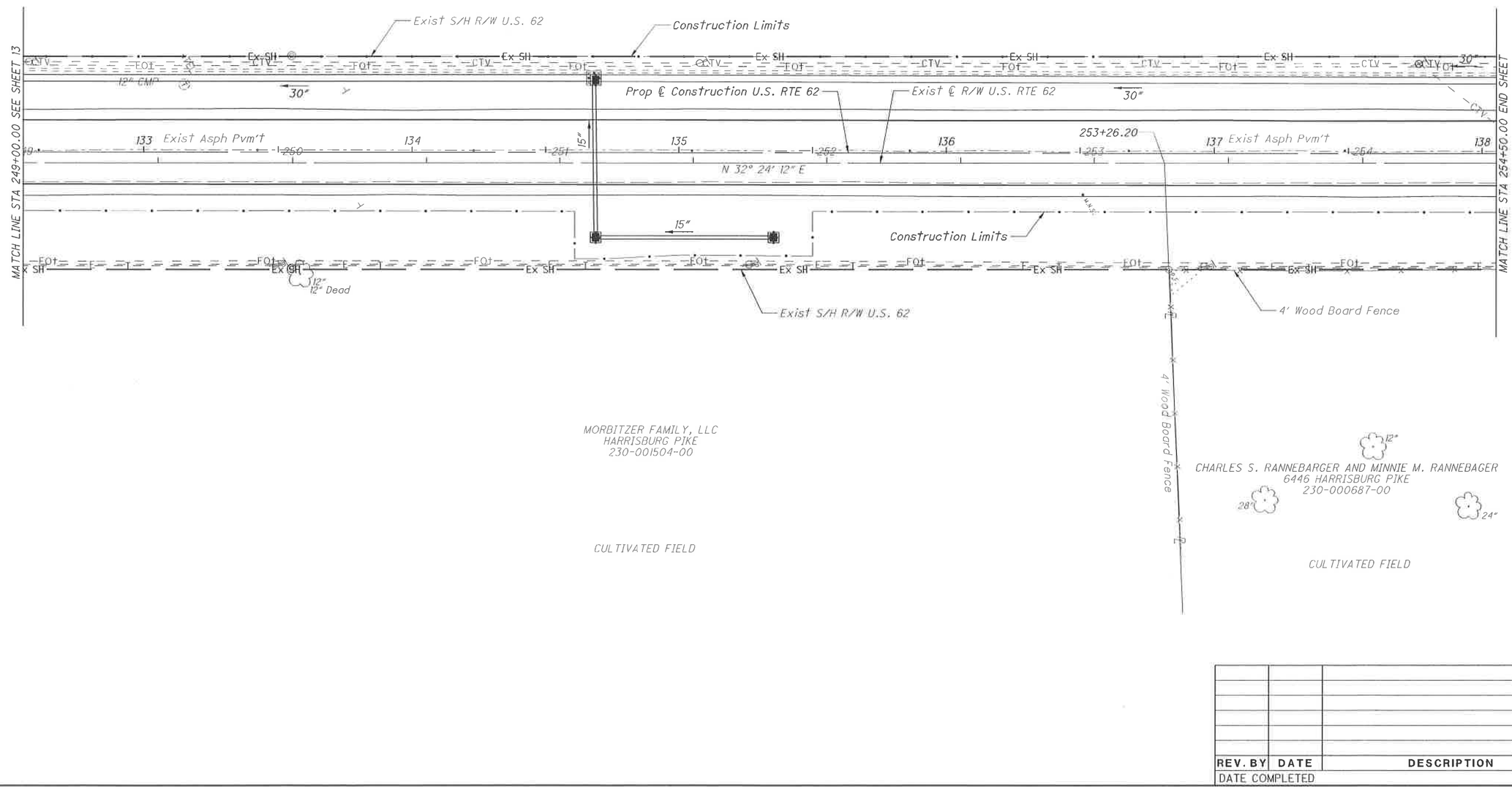
FRANKLIN COUNTY
PLEASANT TOWNSHIP
V.M.S. 931, V.M.S. 947 & V.M.S. 6178



REV. BY	DATE	DESCRIPTION
DATE COMPLETED		

HORIZONTAL SCALE IN FEET
0 10 20 40

PID NO. 94907

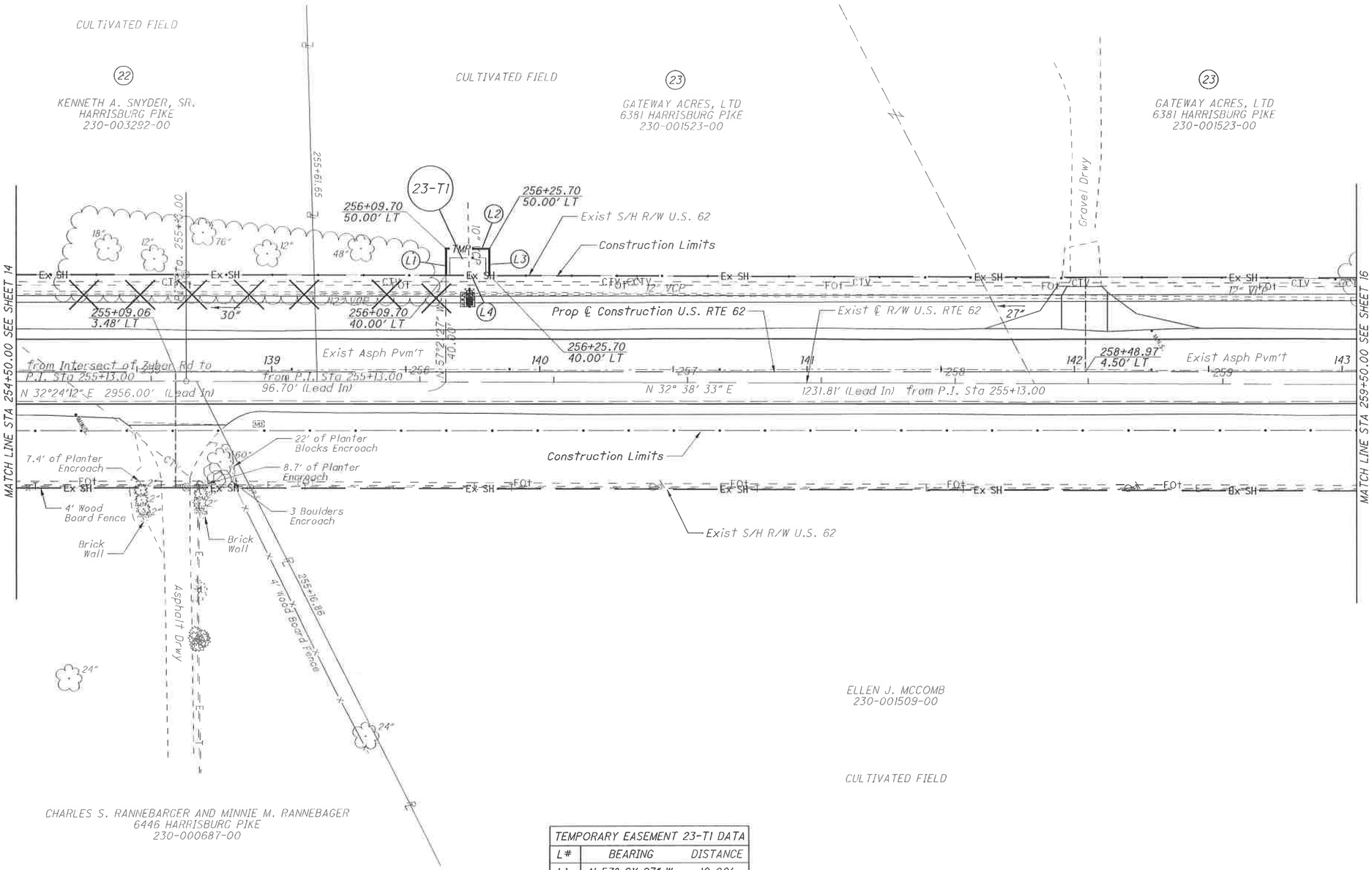
R/W DESIGNER EJG
R/W REVIEWER MSW

RIGHT OF WAY PLAN
STA 249+00.00 TO STA 254+50.00

FRA-62-1.64

15 / 19

FRANKLIN COUNTY
PLEASANT TOWNSHIP
V.M.S. 931, V.M.S. 947 & V.M.S. 6178



TEMPORARY EASEMENT 23-TI DATA		
L#	BEARING	DISTANCE
L1	N 57° 21' 27" W	10.00'
L2	N 32° 38' 33" E	16.00'
L3	S 57° 21' 27" E	10.00'
L4	S 32° 38' 33" W	16.00'

REV. BY	DATE	DESCRIPTION

DATE COMPLETED

HORIZONTAL SCALE IN FEET
0 10 20 40

R/W DESIGNER EJG
R/W REVIEWER MSW

PID NO. 94907

RIGHT OF WAY PLAN
STA 254+50.00 TO STA 259+50.0

FRA-62-1.64

16 / 19

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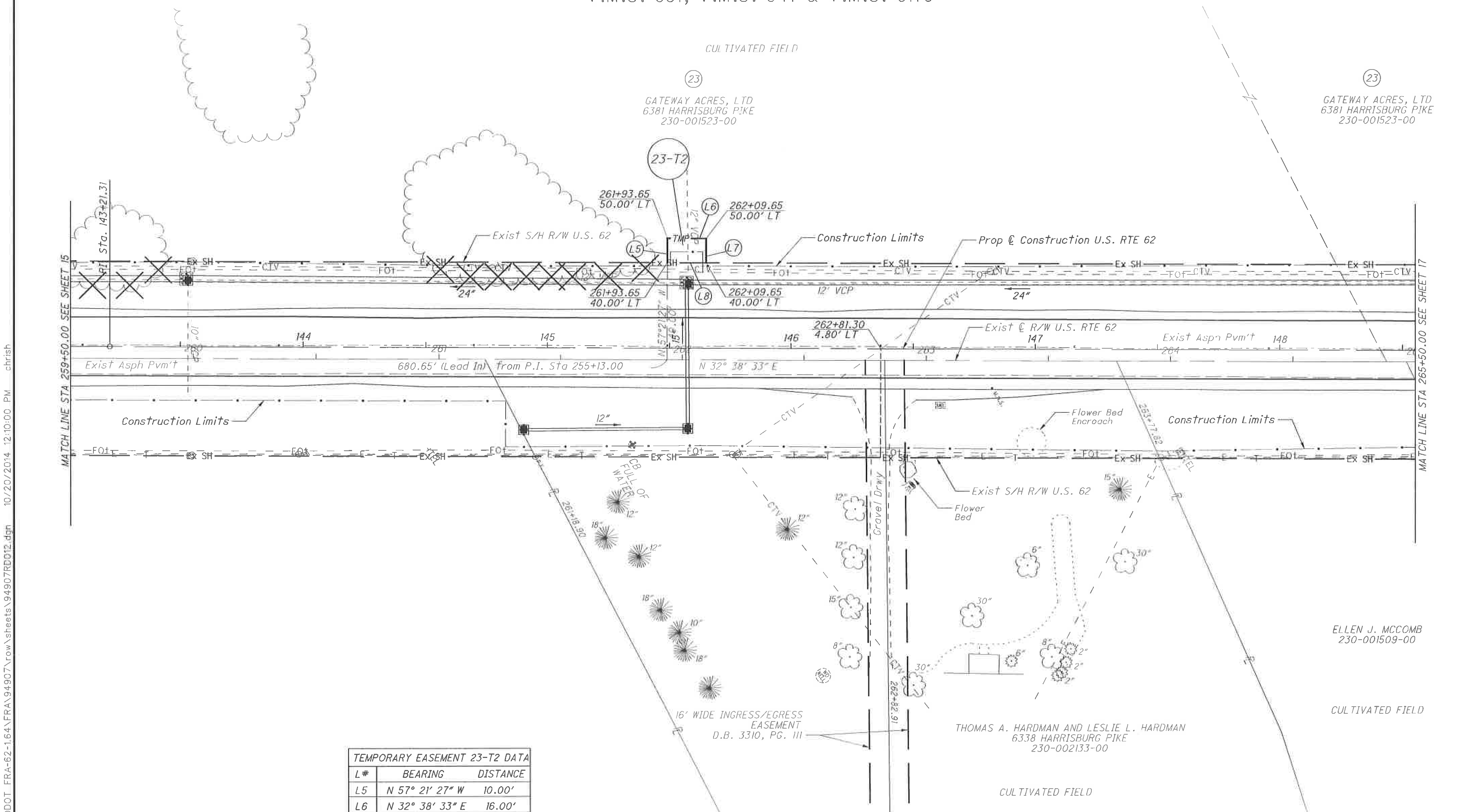
FRANKLIN COUNTY
PLEASANT TOWNSHIP
V.M.S. 931, V.M.S. 947 & V.M.S. 6178



CULTIVATED FIELD
23
GATEWAY ACRES, LTD
6381 HARRISBURG PIKE
230-001523-00
23-T2
261+93.65
50.00' LT
262+09.65
50.00' LT
261+93.65
40.00' LT
262+09.65
40.00' LT
Exist S/H R/W U.S. 62
Construction Limits
Prop ℄ Construction U.S. RTE 62
Exist ℄ R/W U.S. RTE 62
262+81.30
4.80' LT
Exist Asph Pvm't
680.65' (Lead In) from P.I. Sta 255+13.00
N 32° 38' 33" E
MATCH LINE STA 259+50.00 SEE SHEET 15
MATCH LINE STA 265+50.00 SEE SHEET 17
Sta. 143+21.31
12' VCP
Flower Bed Encroach
Flower Bed
Gravel Drwy
CB FULL OF WATER
16' WIDE INGRESS/EGRESS EASEMENT
D.B. 3310, PG. 111
THOMAS A. HARDMAN AND LESLIE L. HARDMAN
6338 HARRISBURG PIKE
230-002133-00
ELLEN J. MCCOMB
230-001509-00
CULTIVATED FIELD

TEMPORARY EASEMENT 23-T2 DATA		
L#	BEARING	DISTANCE
L5	N 57° 21' 27" W	10.00'
L6	N 32° 38' 33" E	16.00'
L7	S 57° 21' 27" E	10.00'
L8	S 32° 38' 33" W	16.00'

REV. BY	DATE	DESCRIPTION
DATE COMPLETED		

HORIZONTAL SCALE IN FEET

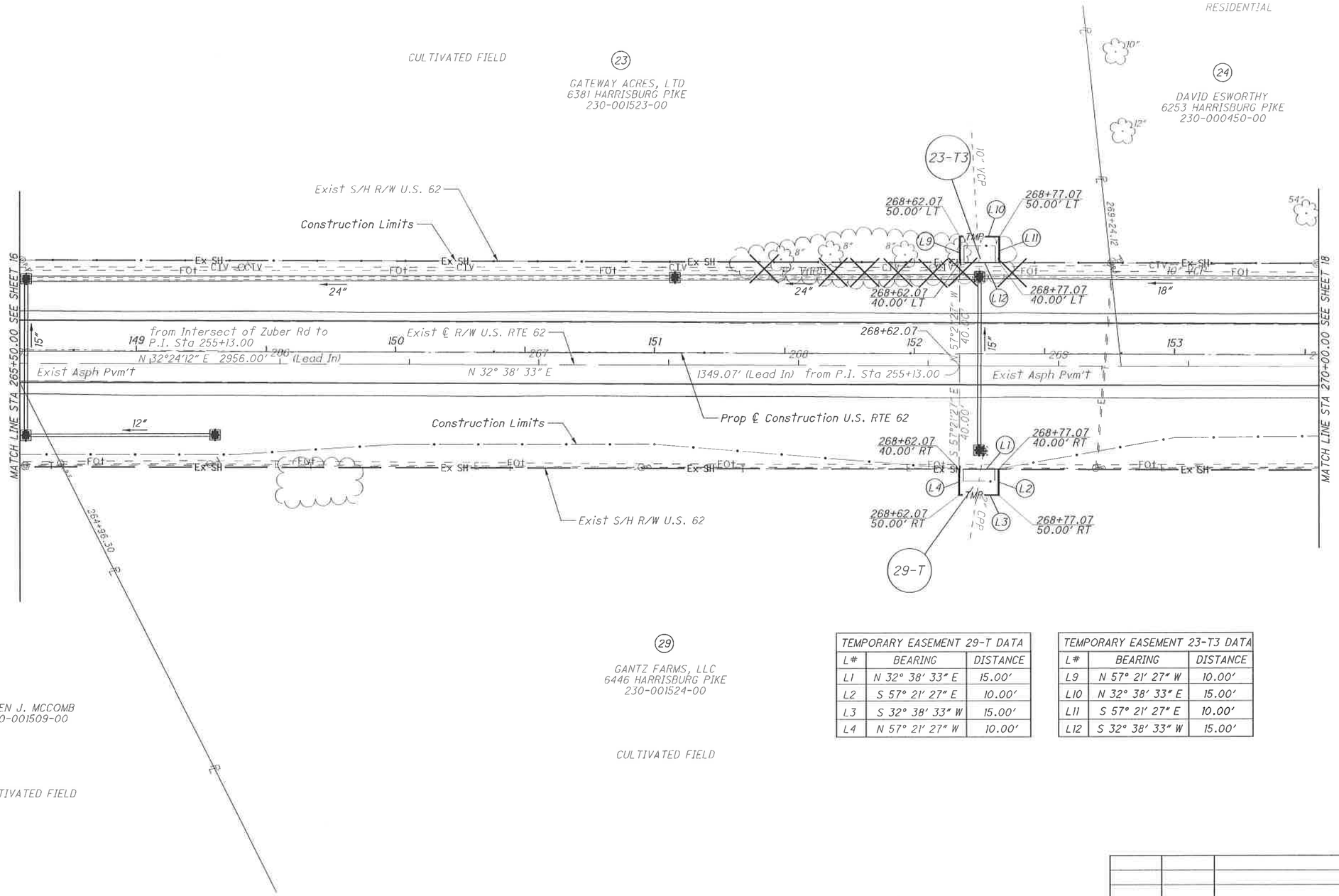
PID NO. 94907

R/W DESIGNER EJG
R/W REVIEWER MSW

RIGHT OF WAY PLAN
STA 259+50.00 TO STA 265+00.0

FRA-62-1.64

FRANKLIN COUNTY
PLEASANT TOWNSHIP
V.M.S. 931, V.M.S. 947 & V.M.S. 6178



TEMPORARY EASEMENT 29-T DATA		
L#	BEARING	DISTANCE
L1	N 32° 38' 33" E	15.00'
L2	S 57° 21' 27" E	10.00'
L3	S 32° 38' 33" W	15.00'
L4	N 57° 21' 27" W	10.00'

TEMPORARY EASEMENT 23-T3 DATA		
L#	BEARING	DISTANCE
L9	N 57° 21' 27" W	10.00'
L10	N 32° 38' 33" E	15.00'
L11	S 57° 21' 27" E	10.00'
L12	S 32° 38' 33" W	15.00'

REV. BY	DATE	DESCRIPTION
DATE COMPLETED		

HORIZONTAL SCALE IN FEET

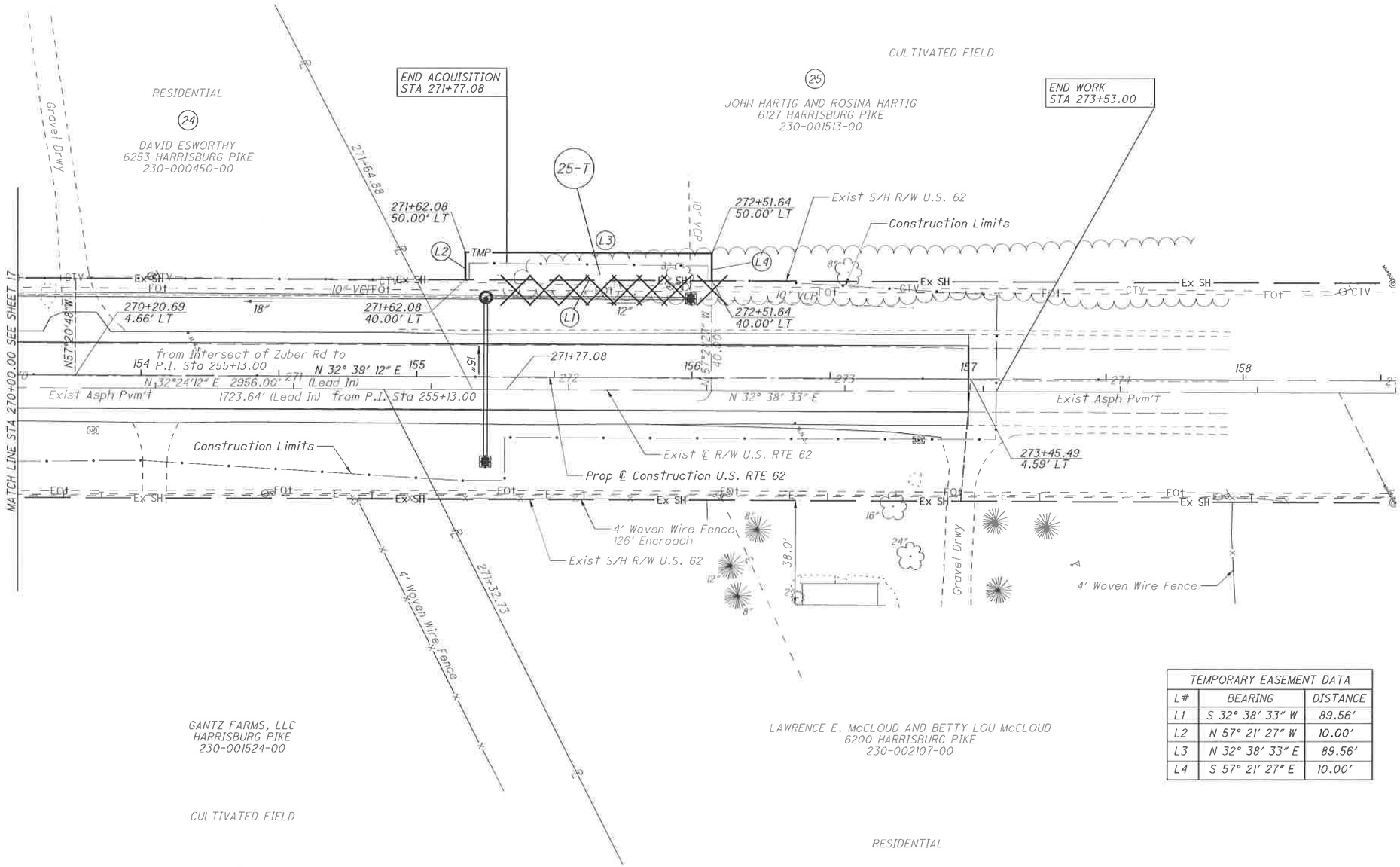
PID NO. 94907

R/W DESIGNER EJG
R/W REVIEWER MSW

RIGHT OF WAY PLAN
STA 265+00.00 TO STA 270+00.0

FRA-62-1.64

FRANKLIN COUNTY
PLEASANT TOWNSHIP
V.M.S. 931, V.M.S. 947 & V.M.S. 6178



TEMPORARY EASEMENT DATA		
L#	BEARING	DISTANCE
L1	S 32° 38' 33" W	89.56'
L2	N 57° 21' 27" W	10.00'
L3	N 32° 38' 33" E	89.56'
L4	S 57° 21' 27" E	10.00'

REV. BY	DATE	DESCRIPTION
DATE COMPLETED		

HORIZONTAL SCALE IN FEET
0 10 20 40

PID NO. 94907

R/W DESIGNER EJG
R/W REVIEWER MSW

RIGHT OF WAY PLAN
STA 270+00.00 TO STA 275+00.00

FRA-62-1.64

19 / 19

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