440 E. HOEWISHER ROAD | SIDNEY, OHIO 45365 | 937.497.0200

SPRINGDALE RD.

olerain Middle School

LOCATION MAP

SCALE IN MILES

LONGITUDE: 84° 36′ 46″ W

BEGIN PROJECT STA. 102+32.56

BEGIN WORK STA. 102+45.31

LATITUDE: 39° 14′ 40″ N

END WORK STA. 133+91.00



HAM CR 96 3.92-SIDEWALK

FEDERAL PROJECT NO. E240711

RAILROAD INVOLVEMENT NONE

PROJECT DESCRIPTION

THE PROJECT INVOLVES THE CONSTRUCTION OF NEW SIDEWALKS ON BOTH SIDES OF SPRINGDALE ROAD FROM POOLE ROAD TO YELLOWWOOD DRIVE.

COLERAIN TOWNSHIP SECTION 15, TOWN 2, RANGE 1 HAMILTON COUNTY

EARTH DISTURBED AREAS

PROJECT EARTH DISTURBED AREA:

1.20 ACRES

ESTIMATED CONTRACTOR E.D.A.:

ECIFICATIONS

RD SPECIFICATIONS OF THE STATE OF OHIO,

POSAL SHALL GOVERN THIS IMPROVEMENT.

T OF TRANSPORTATION, INCLUDING SUPPLEMENTAL

TONS LISTED IN THE PLANS AND CHANGES LISTED

PPROVE THESE PLANS AND DECLARE THAT THE

TRAFFIC OF THE HIGHWAY AND THAT PROVISIONS

INTENANCE AND SAFETY OF TRAFFIC WILL BE SET

THIS IMPROVEMENT WILL NOT REQUIRE THE

0.10 ACRES

OTICE OF INTENT E.D.A.:

1.30 ACRES

INDEX OF SHEETS:

TITLE SHEET SCHEMATIC PLAN TYPICAL SECTIONS GENERAL NOTES MAINTENANCE OF TRAFFIC NOTES GENERAL SUMMARY SURSUMMARY PROJECT SITE PLAN PLAN AND PROFILE - SPRINGDALE ROAD CROSS SECTIONS - SPRINGDALE ROAD DRIVE DETAILS (PROFILES) CURB RAMP DETAILS TRAFFIC CONTROL PLAN TRAFFIC SIGNAL NOTES TRAFFIC SIGNAL PLAN GREATER CINCINNATI WATERWORKS PLANS

All associated SCD/SS dates should be filled in at this point.

ENGINEERS SEAL

BRIDGES CONSTRUCT 10-13 DRAINAGE Tami Brehm, P.E. 09/02/2025 14-15 16-22 L. Keith Smith, P.E. 07/30/2025 43 Casey Carriere, P.E. 7/29/2025 44-45 46-49 50-51 1-4 (GCWW1-1MOTV4) Alex Genbauffe, P.E. 10/01/2025 **PAVEMENT**

REVIEW COMPLETE

ROADWAY Katherine S. DeStefano, P.E. 07/25/2025

SURVEY

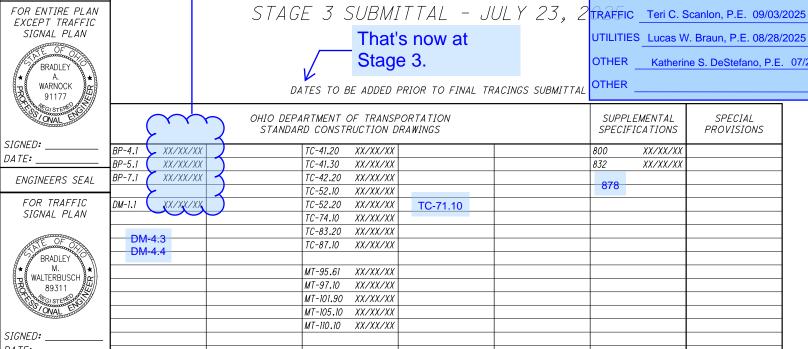
OTHER Katherine S. DeStefano, P.E. 07/25/2025

Douglas A. Gruver, P.E.

THE PLANS AND ESTIMATES.

Pamela Boratyn

Director, Department of Transportation



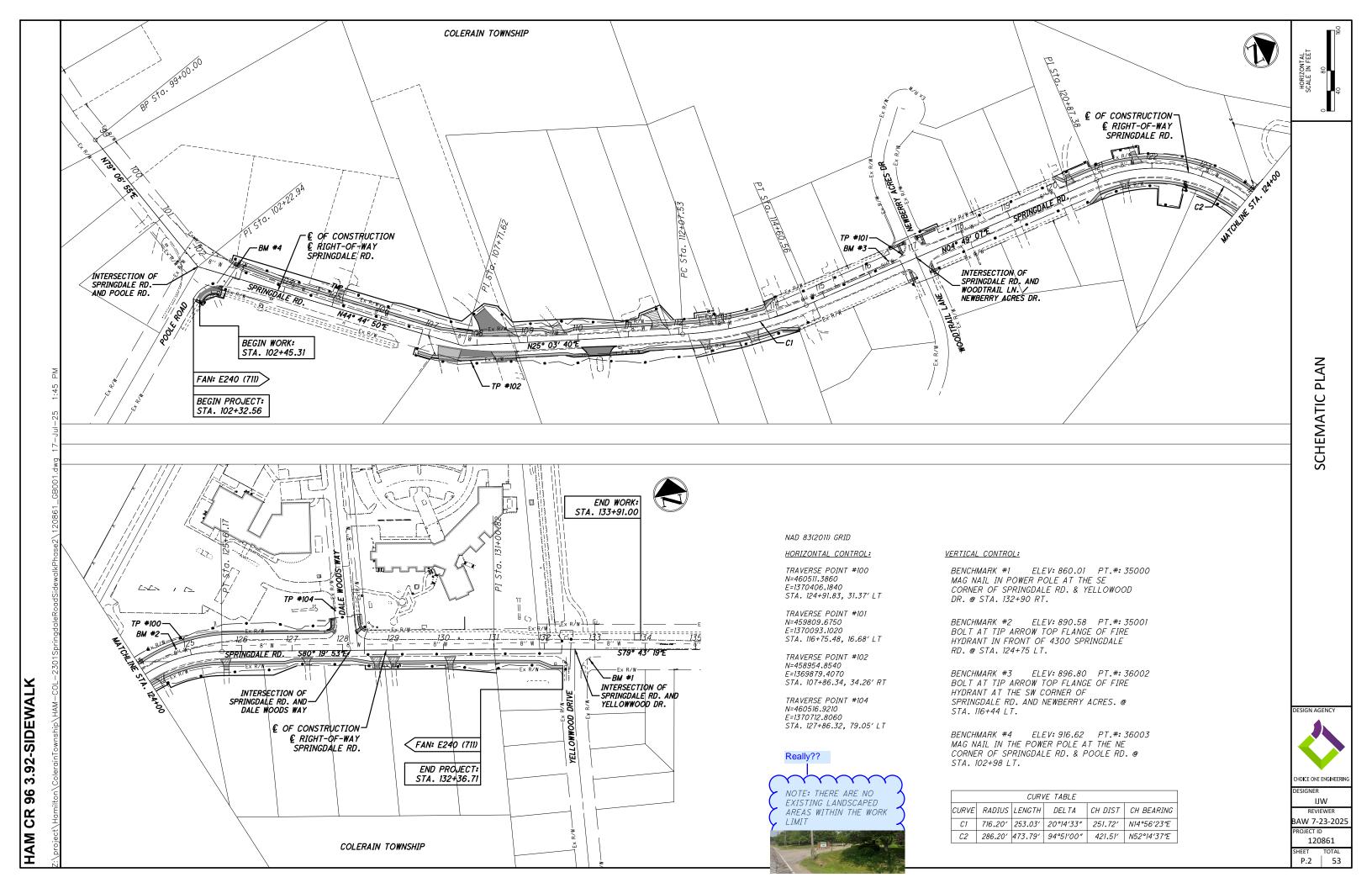
comments were made on

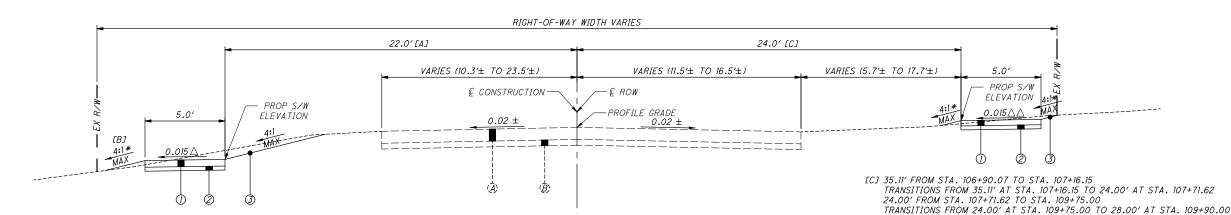
the BMP calcs

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[A] TRANSITIONS FROM 24.44' AT STA. 102+96.96 TO 18.00' AT STA. 104+00.00 18' FROM STA. 104+00.00 TO STA. 107+19.90 TRANSITIONS FROM 18.00' FROM STA. 107+19.90 TO STA. 22.00' AT STA. 107+95.50 72.00' FROM STA. 107+95.50 TO STA. 109+28.52 TRANSITIONS FROM 22.00' AT STA. 109+28.52 TO 16.00' AT STA. 109+45.00 16.00' FROM STA. 109+45.00 TO STA. 109+80.00 TRANSITIONS FROM 16.00' AT STA. 109+80.00 TO 20.00' AT STA. 109+95.00 20.00' FROM STA. 109+95.00 TO STA. 113+78.00 TRANSITIONS FROM 20.00' AT STA. 113+78.00 TO 32.67' AT STA. 114+00.81

TRANSITIONS FROM 35.12' AT STA. 120+13.31 TO 22.00' AT STA. 120+25.17 22.00' FROM STA. 120+25.17 TO STA. 120+75.70 TRANSITIONS FROM 22.00' AT STA. 120+75.70' TO 34.00' AT STA. 125+83.88' 34.00' FROM STA. 125+83.88 TO STA. 127+64.76

- [B] 3:1 MAX SLOPE FROM STA. 106+10.00 TO STA. 111+25.00
- △ SIDEWALK CROSS SLOPE VARIES AS DETAILED BELOW

SIDEWALK SLOPES @ 0.015 AWAY FROM ROADWAY BETWEEN:

102+96.96 TO 112+75.00

SIDEWALK SLOPES @ 0.015 TOWARD ROADWAY BETWEEN:

112+75.00 TO 114+00.81 120+13.31 TO 127+64.76

WHERE SIDEWALK CROSS SLOPE TRANSITIONS, TRANSITION LENGTH SHALL BE AT A RATE OF 5' FOR EVERY 1% OF GRADE

HATCH LEGEND FOR PLANS

ITEM 253 PAVEMENT REPAIR, AS PER PLAN

- ITEM 441 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (449), PG64-22
- ITEM 407 NON-TRACKING TACK COAT (APPLIED @ 0.060 GAL/SY) ITEM 441 - 1.5" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1 (449)
- ITEM 407 NON-TRACKING TACK COAT (APPLIED @ 0.060 GAL/SY)
- ITEM 301 9" ASPHALT CONCRETE BASE, PG64-22 (449) (2 EQUAL LIFTS) (PROVIDE
- 0.06 GAL/SY TACK COAT APPLICATION BETWEEN LIFTS)
- ITEM 304 6" AGGREGATE BASE ITEM 204 - SUBGRADE COMPACTION

RESIDENTIAL ASPHALT DRIVEWAYS

- ITEM 441 1.25" ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (449), PG64-22 (DRIVEWAYS) ITEM 407 - NON-TRACKING TACK COAT (0.06 GAL/SY)
- ITEM 441 2.75" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1, (449) (DRIVEWAYS)
- ITEM 304 8" AGGREGATE BASE

COMMERCIAL ASPHALT DRIVEWAYS

- ITEM 441 1.25" ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (449), PG64-22 (DRIVEWAYS)
- ITEM 407 NON-TRACKING TACK COAT (0.06 GAL/SY)
- ITEM 441 2.75" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1, (449) (DRIVEWAYS)
- ITEM 407 NON-TRACKING TACK COAT (0.06 GAL/SY)
- ITEM 301 4" ASPHALT CONCRETE BASE, PG64-22 (499)
- ITEM 304 6" AGGREGATE BASE

RESIDENTIAL CONCRETE DRIVEWAYS

- ITEM 452 7" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC IP
 - ITEM 411 3" STABILIZED CRUSHED AGGREGATE

TYPICAL SECTION - SPRINGDALE ROAD

STA. 102+96.96 TO 114+29.86 STA. 120+13.31 TO 132+36.68

* SLOPE VARIES SEE CROSS-SECTIONS FOR MORE DETAILS

LEGEND (ALL TYPICAL SHEETS)

- (A) EXISTING ASPHALT CONCRETE
- (B)- EXISTING AGGREGATE BASE MATERIAL
- ITEM 608 5" CONCRETE WALK
- (2) ITEM 411 3" STABILIZED CRUSHED AGGREGATE
- ITEM 659 SEEDING AND MULCHING, CLASS 1

ABBREVIATION LEGEND (ALL PLAN SHEETS)

(ATG) - ANJUST TO GRADE DO (DND) NO NOT DISTURB RECONSTRUCT TO GRADE (R&R) - REMOVE AND REPLACE (TBR) - TO BE REMOVED (TBRLBO) - TO BE RELOCATED BY OTHERS

SYMBOLS LEGEND (ALL PLAN SHEETS)

CATCHBASIN (ATG)

- WATER SERVICE VALVE (ATG)
- X TREE REMOVAL
- ● CONST. LIMITS

DRIVE WIDTH EXPANSION JOINT 0.5" EXPANSION-PROPOSED WALK PROPOSED WALK JOINT (TYP 0.5" EXPANSION JOINT (TYP.) - ITEM 452 - 8" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC IP CURB LAWN

28.00' FROM STA. 109+90.00 TO STA. 111+24.44

24.00' FROM STA. 120+85.15 TO STA. 123+56.91

16.00' FROM STA. 127+05.00 TO STA. 128+20.00

22.00' FROM STA. 128+55.00 TO STA. 131+90.00

32.00' FROM STA. 132+15.00 TO STA. 132+36.68

△△ SIDEWALK CROSS SLOPE VARIES AS DETAILED BELOW

106+90.07 TO 108+80.00 122+80.00 TO 131+30.00

108+80.00 TO 114+29.86

120+57.49 TO 122+80.00

131+30.00 TO 132+36.68

CHANGE.

WIDTH VARIES (SEE PLAN SHEETS)

SIDEWALK SLOPES @ 0.015 AWAY FROM ROADWAY BETWEEN:

SIDEWALK SLOPES @ 0.015 TOWARD ROADWAY BETWEEN:

WHERE SIDEWALK CROSS SLOPE TRANSITIONS, TRANSITION

LENGTH SHALL BE AT A RATE OF 5' FOR EVERY 1% OF GRADE

24.00' AT STA. 111+39.44 TO STA. 114+00.00

TRANSITIONS FROM 28.00' AT STA. 111+24.44 TO 24.00' AT STA. 111+39.44

TRANSITIONS FROM 24.00' AT STA. 114+00.00 TO 35.10' AT STA. 114+29.86

TRANSITIONS FROM 35.16' AT STA. 120+57.49 TO 24.00' AT STA. 120+85.15

TRANSITIONS FROM 21.00' AT STA. 126+85.06 TO 16.00' AT STA. 127+05.00

TRANSITIONS FROM 16.00' AT STA. 128+20.00 TO 22.00' AT STA. 128+55.00

TRANSITIONS FROM 22.00' AT STA. 131+90.00 TO 32.00' AT STA. 132+15.00

TRANSITIONS FROM 24.00' AT STA. 123+56.91 TO 21' AT STA. 124+00.00 21.00' FROM STA. 124+00.00 TO STA. 126+85.06

ITEM 411 - 3" STABILIZED CRUSHED AGGREGATE WALK REMOVED OR PAVEMENT REMOVED AND RE-SEEDED

COMMERCIAL CONCRETE DRIVEWAYS

- ITEM 202 PAVEMENT/WALK REMOVED
- ITEM 659 SEEDING AND MULCHING, CLASS 1
- ITEM 653 TOPSOIL FURNISHED AND PLACED, 12"

CURB RAMP

- ITEM 608 CURB RAMP
 - ITEM 411 3" STABILIZED CRUSHED AGGREGATE

<u>SIDEWALK</u>

- ITEM 608 5" CONCRETE WALK
 - ITEM 411 3" STABILIZED CRUSHED AGGREGATE

Add Item 204 subgrade compaction for sidewalks.

VARIES 5.0 VARIES -EXISTING PAVEMENT 1.50%* VARIES* PROP. ASPHALT BUFFER (FOLLOW PAVEMENT REPAIR -SEE HATCHES FOR DRIVE COMPOSITION) COMPOSITIONS

TYPICAL DRIVE PLAN - WITH CURB LAWN

TYPICAL DRIVE PROFILE

*SLOPE VARIES SEE CROSS SECTIONS

Per SCD BP-7.1, this slope can be

up to 1.56% MAX

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UTILITIES

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

GREATER CINCINNATI WATER WORKS 4747 SPRING GROVE AVE. CINCINNATI, OH 45232 ATTN: EARL BRATFISH (513) 591-6533 ATTN: DANIEL LOUIS (513) 352-3723

SANITARY SEWER

1600 GEST ST. CINCINNATI, OH 45204 ATTN: ROB FRANKLIN (513) 557-7188

GAS

DUKE ENERGY 139 E. FOURTH ST. P.O. BOX 960, RM 460A CINCINNATI, OH 45202 ANDY MCNICHOLS (513) 384-4731 ATTN: MARK BRANSCUM (513) 287-2517

PIPELINE

BP PIPELINES (NORTH AMERICA) INC. 30 S. WACKER DRIVE SUITE 900 CHICAGO, IL 60606 ATTN: KEITH BOYLE (312) 809-4708

ODOT DISTRICT 8 505 S. STATE ROUTE 741 ATTN: TOM MAZZA (513) 933-6591

OHIO UTILITIES PROTECTION SERVICE 2 WORKING DAYS BEFORE YOU DIG CALL TOLL FREE 800-362-2764

COMMUNICATION

5400 DUFF ROAD CINCINNATI, OH 45129 ATTN: STEPHEN HOWELL (614) 816-0361

STREETS, STORM SEWER, & TRAFFIC SIGNALS

HAMILTON CO. ENGINEER 223 W. GALBRAITH ROAD CINCINNATI, OH 45215 ATTN: DAN JONES (STORM & STREETS) (513) 946-8432 ATTN: TOM SPILLE (TRAFFIC SIGNALS) (513) 946-8412

COMMUNICATION

CHARTER 10920 KENWOOD ROAD CINCINNATI, OH 45242 ATTN: TODD VANVRAKEN (513) 386-5958

COMMUNICATION

ALTAFIBER 221 E. FOURTH ST. BUILDING 121-900 CINCINNATI. OH 45202 ATTN: BRECK COWAN (513) 565-7187

ELECTRIC

DUKE ENERGY 2010 DANA AVENUE ROOM EF 324 CINCINNATI, OH 45207 ATTN: MIKE CROSSLAND (513) 882-2994

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

EXISTING UTILITIES ARE SHOWN IN THEIR APPROXIMATE LOCATION ACCORDING TO THE BEST AVAILABLE DATA. THE CONTRACTOR WILL BE RESPONSIBLE FOR LOCATING THEM IN THE FIELD PRIOR TO CONSTRUCTION AND WILL BE RESPONSIBLE FOR ANY DAMAGE DONE TO THEM. CONTRACTOR TO CONTACT OHIO UTILITIES PROTECTION SERVICE AT 1-800-362-2764 AT LEAST 48 HOURS PRIOR TO CONSTRUCTION. NON-MEMBERS MUST BE CALLED DIRECTLY.

WORK LIMITS

THE WORK LIMITS SHOWN ON THESE PLANS ARE FOR PHYSICAL CONSTRUCTION ONLY, PROVIDE THE INSTALLATION AND OPERATION OF ALL WORK ZONE TRAFFIC CONTROL AND WORK ZONE TRAFFIC CONTROL DEVICES REQUIRED BY THESE PLANS
WHEN HEN INSIDE ON OUTSINE NESS WORK LIMITS.

CONSTRUCTION NOISE

IN ORDER TO MINIMIZE ANY ADVERSE CONSTRUCTION NOISE IMPACTS, ANY POWER-OPERATED CONSTRUCTION-TYPE DEVICES SHALL NOT BE OPERATED BETWEEN THE HOURS SPECIFIED IN THE LOCAL NOISE ORDINANCES. IF THERE IS NO NOISE ORDINANCE IN PLACE, POWER-OPERATED CONSTRUCTION-TYPE DEVICES SHALL NOT BE OPERATED BETWEEN THE HOURS TO 7:00 PM TO 7:00 AM.

MUD AND DEBRIS

THE TRACKING OR SPILLING OF MUD, DIRT OF DEBRIS UPON PUBLIC STREETS IS PROHIBITED AND ANY SUCH OCCURRENCE SHALL BE CLEANED UP IMMEDIATELY BY THE CONTRACTOR.

SUBCONTRACTOR SUPERVISION

THE CONTRACTOR IS REQUIRED TO HAVE A PROJECT SUPERVISOR ON-SITE TO SUPERVISE THE SUBCONTRACTOR FOR QUALITY CONTROL PURPOSES AND TO PROVIDE ANY NECESSARY ASSISTANCE TO THE SUBCONTRACTOR TO ENSURE QUALITY WORK.

COST OF THIS ITEM SHALL BE INCLUDED IN THE COST OF RELATED PAY ITEMS OF THIS PROJECT.

CONTROL OF SPILLS

BEST CONSTRUCTION PRACTICES ARE TO BE IMPLEMENTED TO MINIMIZE WATER OUALITY IMPACTS. IDLE EOUIPMENT, PETROCHEMICALS, AND TOXIC/HAZARDOUS MATERIALS SHALL NOT BE STORED NEAR DRAINAGE WAYS, DITCHES, OR STREAMS. REFUELING SHALL NOT BE UNDERTAKEN NEAR DRAINAGE WAYS. DITCHES. OR STREAMS. A SPILL CONTAINMENT KIT IS TO BE MAINTAINED ONSITE THROUGHOUT CONSTRUCTION ACTIVITIES. SPILLS OF FUELS, OILS, CHEMICALS, OR OTHER MATERIALS WHICH COULD POSE A THREAT TO GROUNDWATER SHALL BE CLEANED UP IMMEDIATELY. IF THE SPILL IS A REPORTABLE AMOUNT. THE LOCAL FIRE DEPARTMENT IS TO BE CONTACTED.

NON-RUBBER TIRE VEHICLES

NO NON-RUBBER TIRE VEHICLES SHALL BE MOVED ON TOWNSHIP OR COUNTY STREETS. EXCEPTIONS MAY BE GRANTED BY THE TOWNSHIP WHERE SHORT DISTANCES AND SPECIAL CIRCUMSTANCES ARE INVOLVED. GRANTING OF EXCEPTIONS MUST BE IN WRITING AND ANY RESULTING DAMAGE MUST BE REPAIRED TO THE SATISFACTION OF THE ENGINEER. THE CONTRACTOR SHALL USE EXTREME CARE WHEN OPERATING NON-RUBBER TIRE VEHICLES ON STREETS OR DRIVEWAYS TO AVOID MARKING OR DAMAGING THE PAVEMENT. PROTECTION OF THE PAVEMENT FROM DAMAGE RESULTING FROM THE TRACTS OF NON-RUBBER TIRE VEHICLES UTILIZED IN TRENCH EXCAVATION SHALL BE REQUIRED. A WOOD PLANK SYSTEM, USED TIRES, RUBBER MATS, OR OTHER MEANS AS APPROVED BY THE ENGINEER SHALL BE USED TO PROTECT THE PAVEMENT. THE COST OF THIS WORK SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE VARIOUS ITEMS OF THE CONTRACT.

PROTECTION OF RIGHT-OF-WAY **LANDSCAPING**

IN ADDITION TO ODOT SPECIFICATION 107.10, PRIOR TO BEGINNING WORK, THE CONTRACTOR, THE PROJECT ENGINEER, AND A REPRESENTATIVE OF THE TOWNSHIP OF COLERAIN WILL REVIEW AND RECORD ALL LANDSCAPING ITEMS WITHIN THE RIGHT-OF-WAY (BOTH WITHIN AND OUTSIDE THE CONSTRUCTION LIMITS). A RECORD OF THIS REVIEW WILL BE KEPT IN THE PROJECT ENGINEER'S FILES. PRIOR TO FINAL ACCEPTANCE, A FINAL REVIEW OF LANDSCAPING ITEMS WILL BE MADE.

CONSTRUCT ALL ACTIVITIES, EQUIPMENT STORAGE, AND STAGING TO WITHIN THE CONSTRUCTION LIMITS. THE CONSTRUCTION LIMITS ARE IDENTIFIED IN THE PLANS.

SUBMIT A WRITTEN REQUEST TO THE ENGINEER TO USE ANY AREA OUTSIDE THESE LIMITS. THE DOCUMENT SUBMITTED MUST CLEARLY IDENTIFY THE AREA AND EXPLAIN THE PROPOSED USE AND RESTORATION OF THE AREA. USE OF THESE AREAS FOR DISPOSAL OF WASTE MATERIAL AND CONSTRUCTION DEBRIS. EXCAVATION OF BORROW MATERIAL AND PLACEMENT OF PORTABLE PLANTS IS PROHIBITED. THE REQUEST MUST BE APPROVED, IN WRITING, BEFORE THE CONTRACTOR HAS PERMISSION TO USE THE AREA.

ANY ITEMS DAMAGED BEYOND THE CONSTRUCTION LIMITS, AS DEFINED ABOVE, WILL BE REPLACED IN KIND OR AS APPROVED BY THE PROJECT ENGINEER.

Just state that the project will comply with all local noise ordinances.

SURVEY PARAMETERS

PRIMARY PROJECT CONTROL MONUMENTS GOVERN ALL POSITIONING ON ODOT PROJECTS. SEE SHEET 2 OF THE PLANS FOR A TABLE CONTAINING PROJECT CONTROL INFORMATION.

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

PROJECT CONTROL

POSITIONING METHOD: ODOT VRS MONUMENT TYPE: IRON PIN

VERTICAL POSITIONING

ORTHOMETRIC HEIGHT DATUM: NAVD88 GEOID: GEOID 18

HORIZONTAL POSITIONING

REFERENCE NAME: NAD83 (CORS2011 ADJUSTMENT) ELLIPSOID: GRS 80 MAP PROJECTION: LAMBERT CONFORMAL CONIC COORDINATE SYSTEM: OHIO STATE PLANE SOUTH COMBINED SCALE FACTOR: 1.00009835555907 ORIGIN OF COORDINATE SYSTEM: 460511.3860, 1370406.1840

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

UNITS ARE U.S. SURVEY FEET.

HORIZONTAL CONTROL

Point #	Northing	Easting	Elevation	Туре
100	460511.3860	1370406.1840	888.88	IRON PIN
101	459809.6750	1370093.1020	895.18	MAG NAIL
102	458954.8540	1369879.4070	911.50	IRON PIN
104	460516.9210	1370712.8060	876.04	CUT CROSS

VERTICAL CONTROL

Point #	Northing	Easting	Elevation	Туре
BM #1	460332.7560	1371192.1240	860.01	MAG NAIL IN POLE
BM #2	460497.9110	1370388.8120	890.58	FH BOLT TIP ARROW
BM #3	459778.6090	1370091.1560	896.80	FH BOLT TIP ARROW
BM #4	458636.0300	1369491.7540	916.62	MAG NAIL IN POLE

SEEDING AND MULCHING

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

ITEM 659 - TOPSOIL	305 CU. YD.
ITEM 659 - SEEDING AND MULCHING, CLASS 1	2,750 SQ. YD.
ITEM 659 - REPAIR SEEDING AND MULCHING	137 SQ. YD.
ITEM 659 - INTER-SEEDING	137 SQ. YD.
ITEM 659 - COMMERCIAL FERTILIZER	0.37 TON
ITEM 659 - LIME	0.56 ACRE
ITEM 659 - WATER	15.22 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.

CLEARING AND GRUBBING

REMOVE ALL BRUSH, TREES AND STUMPS SPECIFICALLY MARKED FOR REMOVAL WITHIN THE CONSTRUCTION LIMITS UNDER THE LUMP SUM BID FOR ITEM 201, CLEARING AND GRUBBING. THE FOLLOWING IS AN APPROXIMATE ESTIMATE OF THE NUMBER OF TREES AND STUMPS LARGER THAN 8" TO BE REMOVED.

SIZES NO. TREES NO. STUMPS	TOTA
8" 1 0	1
10" 1	1
12" 1	1
14" 2 0	2
16" 1 0	1
18" 5	5
48" 1 0	1

CROSSINGS AND CONNECTIONS TO EXISTING PIPES AND UTILITIES

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

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

IF IT IS DETERMINED THAT THE PROPOSED CONDUIT WILL INTERSECT ANY 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.

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.

ALL EXISTING SEWERS INSPECTED INITIALLY BY THE ABOVE MENTIONED PARTIES SHALL BE MAINTAINED AND LEFT IN A CONDITION REASONABLY COMPARABLE TO THAT DETERMINED BY THE ORIGINAL INSPECTION. ANY CHANGE IN THE CONDITION RESULTING FROM THE CONTRACTOR'S OPERATIONS SHALL BE CORRECTED BY THE CONTRACTOR TO THE SATISFACTION OF THE ENGINEER.

PAYMENT FOR ALL OPERATIONS DESCRIBED ABOVE SHALL BE INCLUDED IN THE CONTRACT PRICE FOR THE PERTINENT 611 CONDUIT ITEMS.



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CLEAN WATER CONNECTIONS

ROOF DRAINS, FOUNDATION DRAINS, AND ALL OTHER CLEAN WATER CONNECTIONS TO THE SANITARY SYSTEM ARE PROHIBITED.

FUTURE MAINTENANCE OF PROPOSED ITEMS:

> ALL PROPOSED DRAINAGE STRUCTURES AND CONVEYANCES SHOWN ON THESE PLANS ARE NOT ACCEPTED BY THE BOARD OF COUNTY COMMISSIONERS OF HAMILTON COUNTY, AND THE COUNTY OF - HAMILTON IS NOT RESPONSIBLE TO MAINTAIN, REPAIR OR REPLACE ANY PROPOSED DRAINAGE STRUCTURES AND CONVEYANCES SHOWN ON THESE PLANS, EXCEPT HEREIN MODIFIED WHEN THE DRAINAGE STRUCTURES AND CONVEYANCES CROSS UNDERNEATH COUNTY ROADWAY.

ALL PROPOSED SIDEWALK AND CURB RAMPS SHOWN ON THESE PLANS ARE NOT ACCEPTED BY THE BOARD OF COUNTY COMMISSIONERS OF HAMILTON COUNTY, AND THE COUNTY OF HAMILTON IS NOT RESPONSIBLE TO MAINTAIN, REPAIR OR replace any proposed sidewalk shown on these plans.

ALL PROPOSED CURB AND CURB INLETS SHOWN ON THESE PLANS ARE NOT ACCEPTED BY THE BOARD OF COUNTY COMMISSIONERS OF HAMILTON COUNTY, AND THE COUNTY OF HAMILTON IS NOT RESPONSIBLE TO MAINTAIN, REPAIR OR REPLACE ANY PROPOSED > DRAINAGE STRUCTURES AND CONVEYANCES SHOWN ON THESE Millian Market Company of the Compan

ITEM 253 - PAVEMENT REPAIR, AS PER PLAN

THIS ITEM OF WORK WILL SHALL CONSIST OF THE REMOVAL OF THE EXISTING ASPHALT AND AGGREGATE AND THE INSTALLATION OF THE NEW AGGREGATE AND ASPHALT PAVEMENT. THE NEW PAVEMENT AND AGGREGATE SHALL FOLLOW THE DETAIL AND PAVEMENT COMPOSITION FOUND ON SHEET 3 OF THESE PLANS. ANY PAVEMENT MARKINGS THAT ARE DISTURBED DURING THIS REPLACEMENT SHALL BE REPLACED IN-KIND WITH ITEM 642 PAINT AND INCIDENTAL TO ITEM 253, PAVEMENT REPAIR, AS PER PLAN.

PAYMENT FOR ITEM 253, PAVEMENT REPAIR, AS PER PLAN FOR ALL OPERATIONS DESCRIBED ABOVE SHALL BE AT THE CONTRACT CUBIC YARD BID PRICE.

ITEM 630 SIGNING, MISC.: SOLAR-POWERED RECTANGULAR RAPID FLASHING BEACON (RRFB) SIGN ASSEMBLY

THIS THIS WORK SHALL CONSIST OF FURNISHING AND INSTALLING A SOLAR POWERED RECTANGULAR RAPID FLASHING BEACON (RRFB) SIGN ASSEMBLY. THE FLASHING UNIT SHALL BE SOLAR POWERED, PEDESTRIAN ACTIVATED, AND 2-SIDED WITH TWO LED ARRAY BASED YELLOW INDICATIONS ON EACH SIDE. MULTIPLE UNITS SHALL BE WIRELESSLY CONTROLLED AND SYNCHRONIZED. THE UNIT SHALL BE COMPLIANT WITH THE MOST CURRENT OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (OMUTCD) AND FHWA INTERIM APPROVAL FOR RRFBS (IA-21).

GENERAL REQUIREMENTS -

EACH RRFB SHALL CONSIST OF TWO RAPIDLY FLASHED RECTANGULAR-SHAPED YELLOW INDICATIONS HAVING LED ARRAY BASED LIGHT SOURCE.

EACH RRFB SHALL BE A COMPLETE ASSEMBLY, CONSISTING OF BUT NOT LIMITED TO, SIGNAGE, SIGN MOUNTING HARDWARE, INDICATIONS AND ELECTRICAL COMPONENTS (WIRING, SOLID-STATE CIRCUIT BOARDS, ETC.).

EACH RRFB SHALL CONTAIN A PEDESTRIAN INDICATION LIGHT VISIBLE BY THE PEDESTRIAN IN THE DIRECTION OF TRAVEL.

ITEM 630 SIGNING, MISC.: RECTANGULAR RAPID FLASHING BEACON (RRFB) SIGN ASSEMBLY

(CONT'D)

This language should go into a FMantenanceagreensestveen County and Township. It is not of ethe contractors concern to build ar POWER.

EACH RRFB SHALL BE ACTIVATED BY ADA COMPLIANT

THE RRFB SHALL BE NORMALLY DARK, SHALL INITIATE OPERATION ONLY UPON PEDESTRIAN ACTUATION, AND SHALL CEASE OPERATION AFTER A PREDETERMINED TIME LIMIT (BASED ON OMUTCD PROCEDURES).

EACH REMOTE RRFB SHALL BE WIRELESSLY ACTIVATED.

ALL RRFB LIGHT INDICATIONS SHALL BE WIRELESSLY SYNCHRONIZED (ALL LIGHTS WILL TURN ON WITHIN 120 MSEC AND REMAIN SYNCHRONIZED THROUGHOUT THE DURATION OF THE FLASHING CYCLE).

THE UNIT SHALL BE CAPABLE OF RUNNING 14 DAYS WITHOUT

MATERIALS -

FURNISH A COMPLETE ASSEMBLY, CONSISTING OF BUT NOT LIMITED TO, SIGNAGE, SIGN MOUNTING HARDWARE, INDICATIONS, AND ELECTRICAL COMPONENTS (WIRING, SOLID-STATE CIRCUIT BOARDS, ETC.), THE RRFB ASSEMBLY INCLUDES THE FOLLOWING

1. RRFB INDICATIONS

- a. EACH RRFB INDICATION LENS SHALL BE A MINIMUM SIZE OF APPROXIMATELY 5" WIDE X 2" HIGH.
- b. THE RRFB INDICATIONS SHALL BE ALIGNED HORIZONTALLY, WITH THE LONGER DIMENSION OF THE INDICATION HORIZONTAL. THERE SHALL BE TWO INDICATIONS ON THE FRONT AND TWO INDICATIONS ON THE BACK.
- EACH RRFB SHALL BE SUPPLIED WITH ALL REQUIRED HARDWARE TO INSTALL ASSEMBLY. ALL EXPOSED HARDWARE SHALL BE ANTI-VANDAL.
- EACH RRFB SHALL BE LOCATED BETWEEN THE BOTTOM OF THE CROSSING WARNING SIGN AND THE TOP OF THE SUPPLEMENTAL DOWNWARD DIAGONAL ARROW PLAQUE.
- THE LIGHT INTENSITY OF THE YELLOW INDICATIONS SHALL MEET THE MINIMUM CLASS 1 SPECIFICATIONS OF SOCIETY OF AUTOMOTIVE ENGINEERS (SAE) STANDARD J595 (DIRECTIONAL FLASHING OPTICAL WARNING DEVICES FOR AUTHORIZED EMERGENCY, MAINTENANCE, AND SERVICE VEHICLES) DATED JANUARY, 2005.
- TO MINIMIZE EXCESSIVE GLARE DURING NIGHTTIME CONDITIONS, AN AUTOMATIC SIGNAL DIMMING DEVICE SHALL BE USED TO REDUCE THE BRILLIANCE OF THE RRFB INDICATIONS.
- AN LED PEDESTRIAN CONFIRMATION LIGHT DIRECTED AT AND VISIBLE TO PEDESTRIANS IN THE CROSSWALK SHALL BE INSTALLED INTEGRAL TO THE RRFB OR PUSHBUTTON TO GIVE CONFIRMATION THAT THE RRFB IS IN OPERATION.
- THE PEDESTRIAN CONFIRMATION LIGHT SHALL HAVE A MINIMUM AREA OF 0.5 SQUARE INCHES AND BE CONSPICUOUS TO PEDESTRIANS AT ALL DISTANCES FROM THE BEGINNING OF THE CONTROLLED CROSSWALK TO A POINT 10 FEET FROM THE END OF THE CONTROLLED CROSSWALK DURING BOTH DAY AND NIGHT.

ITEM 630 SIGNING, MISC.: RECTANGULAR RAPID FLASHING BEACON (RRFB) SIGN ASSEMBLY (CONT'D)

2. SIGNS

- a. ALL SIGN ASSEMBLIES SHALL USE ANTI-VANDAL FASTENERS TO MOUNT COMPONENTS TO SIGN AND SIGN TO FIXTURE.
- PEDESTRIAN PUSHBUTTONS SIGNS SHALL BE PROVIDED AND INCLUDE THE LEGEND "PUSH BUTTON TO TURN ON WARNING LIGHTS, WAIT FOR GAP IN TRAFFIC". SIGNS SHOULD BE MOUNTED ADJACENT TO OR INTEGRAL WITH EACH PEDESTRIAN PUSHBUTTON.
- TWO SETS OF SIGNS SHALL BE REQUIRED PER UNIT FOR VIEW FROM EACH APPROACH.
- ASSURE SIGN MEETS THE REQUIREMENTS OF C&MS 630.

3. CONTROL CIRCUIT

- a. THE CONTROL CIRCUIT SHALL HAVE THE CAPABILITY OF INDEPENDENTLY FLASHING UP TO TWO INDEPENDENT OUTPUTS. THE LED LIGHT OUTPUTS AND FLASH PATTERN SHALL BE COMPLETELY PROGRAMMABLE.
- THE CONTROL CIRCUIT SHALL BE SEALED WATERTIGHT TO ELIMINATE DIRT CONTAMINATION AND ALLOW FOR SAFE HANDLING IN ALL WEATHER CONDITIONS.
- THE LEDS SHALL BE SEALED AGAINST DUST AND MOISTURE INTRUSION AS PER THE REQUIREMENTS OF NEMA STANDARD 250-1991 FOR TYPE 4 ENCLOSURE AND TO PROTECT ALL INTERNAL LED AND ELECTRICAL COMPONENTS.

4. BATTERY AND SOLAR PANELS

- a. BATTERY UNIT SHALL BE A 12VDC, 35 AHR MINIMUM, SEALED GEL OR AGM LEAD ACID BATTERY. BATTERIES SHALL HAVE A WRITTEN TWO YEAR FULL REPLACEMENT WARRANTY.
- THE SOLAR PANEL SHALL PROVIDE A MINIMUM OF 40 WATTS PEAK TOTAL OUTPUT.
- THE SOLAR PANEL SHALL BE MOUNTED TO AN ALUMINUM PLATE AND BRACKET AT AN ANGLE OF 45 DEGREES- 60 DEGREES TO PROVIDE MAXIMUM OUTPUT.
- d. ALL FASTENERS USED SHALL BE ANTI-VANDAL.

5. WIRELESS RADIO

- a. RADIO CONTROL SHALL OPERATE ON A 900 MHZ FREQUENCY HOPPING SPREAD SPECTRUM NETWORK, WI-FI OR APPROVED
- b. RADIO SHALL INTEGRATE COMMUNICATION OF RRFB CONTROL CIRCUIT TO ACTIVATE SIGN FROM PUSHBUTTON INPUT.
- THE RADIO SHALL BE SYNCHRONIZED SO ALL OF THE REMOTE RRFB LIGHT INDICATIONS WILL TURN ON WITHIN 120 MSEC OF EACH OTHER AND REMAIN SYNCHRONIZED THROUGH-OUT THE DURATION OF THE FLASHING CYCLE.

6. PUSHBUTTON

- a. THE PUSHBUTTON SHALL BE CAPABLE OF CONTINUOUS OPERATION OVER A TEMPERATURE RANGE OF -30 DEGREES F TO +165 DEGREES F.
- b. PUSHBUTTON SHALL BE ADA COMPLIANT.

7. PEDESTAL SHAFT AND BASE - MOUNT ON A STANDARD 4.5-INCH OD ALUMINUM PEDESTAL POLE WITH BREAKAWAY BASE. A 14 FOOT POLE SHALL BE PROVIDED AND FIELD ADJUSTED AND CAPPED TO MAINTAIN THE PROPER SIGN MOUNTING HEIGHTS, UNLESS SPECIFIED OTHERWISE IN THE PLANS. POLE AND BASE MANUFACTURER SHALL BE LISTED ON ODOT'S QUALIFIED PRODUCTS LIST.

CONSTRUCTION -

THE RRFB SHALL BE ASSEMBLED AND CONSTRUCTED BY THE CONTRACTOR AS SHOWN AND SPECIFIED ON THE PLANS.

WARRANTY -

WARRANTY SHALL BE TWO YEARS FROM THE DATE OF FINAL

ITEM 630 SIGNING, MISC.: RECTANGULAR RAPID FLASHING BEACON (RRFB) SIGN ASSEMBLY (CONT'D)

MEASUREMENT -

THE DEPARTMENT WILL MEASURE THE ITEM COMPLETE IN PLACE, INCLUDING ALL MATERIALS, TESTING, LABOR AND SOFTWARE FOR A FULLY FUNCTIONAL UNIT.

PAYMENT -

PAYMENT WILL BE AT THE CONTRACT UNIT PRICE PER EACH FOR ITEM 630 "SIGNING MISC.: SOLAR POWERED RECTANGULAR RAPID FLASHING BEACON (RRFB) SIGN ASSEMBLY".

ITEM SPECIAL - MAILBOX AND SUPPORT SYSTEM, SINGLE

FOR MAILBOXES CALLED OUT TO BE REMOVED AND REPLACED THE CONTRACTOR SHALL REMOVE EXISTING MAILBOXES AND SUPPORTS, AND FURNISH AND INSTALL NEW MAILBOXES AND SUPPORTS. ALL MAILBOXES AND SUPPORTS SHALL BE PLACED IN THEIR EXISTING LOCATION ADJACENT TO THE ROADWAY.

THIS WORK SHALL CONSIST OF FURNISHING AND ERECTING MAILBOX SUPPORTS, ANY ASSOCIATED MOUNTING HARDWARE NECESSARY FOR THE APPROVED MAILBOX TYPE, AND ATTACHING A TOWNSHIP APPROVED MAILBOX AT LOCATIONS SPECIFIED IN THE PLAN, OR OTHERWISE ESTABLISHED BY THE ENGINEER.

MAILBOXES SHALL BE BLACK, DOUBLE SIDED MAILBOXES AND THE MAILBOX MAKE/MODEL SHALL BE APPROVED BY THE TOWNSHIP PRIOR TO THE CONTRACTOR ORDERING MATERIALS.

WOOD POSTS SHALL BE NOMINAL 4 INCHES BY 4 INCHES SQUARE OR 4.5 INCHES DIAMETER ROUND, AND CONFORM TO 710.14.

STEEL POSTS SHAL BE NOMINAL PIPE SIZE 2 INCHES I.D., AND CONFORM TO AASHTO M 181.

ALL HARDWARE INCLUDING BUT NOT LIMITED TO PLATES, SCREWS, BOLTS, AND ETC. SHALL BE COMMERCIAL-GRADE GALVANIZED

POSTS SHALL BE SET PER THE FIRST PARAGRAPH OF 606.03, AND SHALL IN NO INSTANCE BE ENCASED IN CONCRETE.

SUPPORT HARDWARE SHALL ACCOMMODATE EITHER A SINGLE OR A DOUBLE MAILBOX INSTALLATION, AND NO MORE THAN TWO BOXES MAY BE MOUNTED ON A SINGLE POST.

THE MAILBOX SHALL BE SECURELY AND NEATLY ATTACHED BY THE CONTRACTOR TO THE NEW SUPPORT. THE CONTRACTOR SHALL FURNISH ALL NECESSARY ATTACHMENT HARDWARE (NUTS, BOLTS, PLATES, SPACERS, AND WASHERS) AS NECESSARY TO ACCOMMODATE THE COMPLETE INSTALLATION.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH THE LOCAL POST MASTER REGARDING THE TIMING OF THE MOVEMENT OF ANY MAILBOX TO A NEW LOCATION.

PAYMENT UNDER THIS ITEM SHALL BE LIMITED TO FINAL PERMANENT INSTALLATIONS, TEMPORARY INSTALLATIONS AND THE REMOVAL OF THE EXISTING MAILBOX AND SUPPORT SHALL BE INCIDENTAL TO ITEM SPECIAL MAILBOX SUPPORT SYSTEM, (SINGLE). HOWEVER, THE SAME MATERIAL AND SIZE LIMITATIONS AS FOR PERMANENT INSTALLATIONS SHALL APPLY.

MAILBOX SUPPORTS, COMPLETE IN PLACE, WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER EACH, FOR ITEM SPECIAL MAILBOX SUPPORT SYSTEM, (SINGLE).



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ITEM SPECIAL - PIPE CLEANOUT, 24" AND UNDER

THIS WORK CONSISTS OF REMOVING SEDIMENT AND DEBRIS FROM THE EXISTING DRAINAGE CONDUITS SPECIFIED IN THE PLANS. DISPOSE OF ALL MATERIAL PER 105.16 AND 105.17. CLEAN OUT TO THE APPROVAL OF THE ENGINEER.

CLEANOUT THE PIPE IS PAID FOR AT THE UNIT PRICE PER LINEAR FOOT FOR ITEM SPECIAL, PIPE CLEANOUT. THIS PRICE INCLUDES THE COST FOR MATERIAL, EQUIPMENT, LABOR, AND ALL INCIDENTALS REQUIRED TO COMPLETE THE CLEANOUT.

ITEM SPECIAL - CONSULTANT FOR **CONCRETE QUALITY CONTROL** INCLUDING TESTING AND INSPECTION

ALL CONCRETE SHALL BE TESTED. ALL TESTING, INSPECTION AND QUALITY CONTROL FOR CONCRETE, NOT INCLUDED UNDER QC/QA PAY ITEMS, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL PROVIDE A CONCRETE TESTING CONSULTANT WITH PREVIOUS EXPERIENCE AND FAMILIARITY IN ODOT PROCEDURES, CONCRETE TESTING REQUIREMENTS AND CONCRETE TESTING DOCUMENTATION. AT LEAST 30 DAYS PRIOR TO CONCRETE PLACEMENT, SUBMIT TO THE ENGINEER FOR APPROVAL, THE PROPOSED CONCRETE TESTING CONSULTANT ALONG WITH THE RESUMES OF THE PROPOSED TESTING PERSONNEL.

TESTING CONCRETE FOR STRUCTURES AND PORTLAND CEMENT CONCRETE PAVEMENT SHALL BE PERFORMED AS OUTLINED IN CMS SPECIFICATIONS 455 RESPECTIVELY.

THROUGH THE CONTRACTOR, THE CONSULTANT SHALL BE RESPONSIBLE FOR ENSURING THAT ALL CONCRETE PLACED IS IN ACCORDANCE WITH THE SPECIFICATIONS. SUCH WORK SHALL BE IN ACCORDANCE WITH THE APPLICABLE CONSTRUCTION AND MATERIAL SPECIFICATIONS AND THE ODOT CONSTRUCTION INSPECTION MANUAL OF PROCEDURES FOR CONCRETE. THE CONCRETE CONSULTANT SHALL PROVIDE THE NECESSARY TRAINED TECHNICIAN(S), ALL EQUIPMENT, AND SHALL FURNISH THE PROJECT ENGINEER WITH TWO (2) COPIES OF ALL TEST RESULTS WITHIN 24 HOURS AFTER COMPLETION OF CONCRETE PLACEMENT.

THE TECHNICIAN SHALL BE ACI LEVEL 1 CERTIFIED AND WILL BE REQUIRED TO DEMONSTRATE HIS/HER COMPETENCE AND EXPERIENCE LEVELS TO THE ENGINEER PRIOR TO BEGINNING WORK. THE ENGINEER WILL ORDER THE CONTRACTOR TO REPLACE ANY TECHNICIAN THAT IS NOT VERSED IN THE REQUIRED TESTING PROCEDURE.

THE TECHNICIAN SHALL VERBALLY NOTIFY THE ODOT PROJECT ENGINEER OF ANY FAILING TEST AND SHALL SUBMIT FOLLOW-UP WRITTEN NOTIFICATION TO THE PROJECT ENGINEER OF REMEDIAL ACTION(S) TAKEN. TESTS SHALL BE TAKEN AS SPECIFIED WITHIN THE CONSTRUCTION AND MATERIAL SPECIFICATIONS, CONCRETE MANUAL OR APPROPRIATE SUPPLEMENTAL SPECIFICÁTION AS LISTED IN THE PROPOSAL GOVERNING THE PROJECT. IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO MAKE IMMEDIATE CORRECTIONS OR ADJUSTMENTS TO THE CONCRETE MIX VIA DIRECT COMMUNICATION WITH THE CONCRETE SUPPLIER'S PLANT PERSONNEL TO MAINTAIN UNINTERRUPTED COMPLIANCE WITH THE SPECIFICATIONS UPON NOTIFICATION OF CONCRETE MIX NON-COMPLIANCE BY THE CONSULTANT TECHNICIAN. THE PROJECT ENGINEER MAY REQUIRE MORE FREQUENT TESTING AS CONDITIONS WARRANT.

UPON COMPLETION OF DAILY CONCRETE PLACEMENT(S), THE CONCRETE CONSULTANT SHALL PROVIDE THE PROJECT ENGINEER WITH DAILY TEST REPORTS. TE-45'S. INSPECTORS DAILY REPORT AND SUPPORTING DOCUMENTATION FOR EACH ITEM OF CONCRETE WORK PERFORMED SEPARATED BY MIX DESIGN. SUBSEQUENTLY, UPON COMPLETION OF AN ENTIRE CONCRETE SPECIFICATION ITEM, THE CONCRETE CONSULTANT SHALL ALSO PROVIDE THE PROJECT ENGINEER WITH TWO (2) COPIES OF AN ADDITIONAL INSPECTION REPORT BY A REGISTERED PROFESSIONAL ENGINEER, STATE OF OHIO, WHICH CONTAINS THE TESTING-RESULTS SUMMARY FOR EACH ITEM BY CONTRACT REFERENCE NUMBER AND THE CONSULTANT'S CONCLUSIONS RELATIVE TO SPECIFICATION COMPLIANCE FOR ALL CONCRETE-TESTING WORK.

ITEM SPECIAL - CONSULTANT FOR CONCRETE QUALITY CONTROL INCLUDING TESTING AND INSPECTION (CONTINUED)

THE ODOT PROJECT ENGINEER RESERVES THE RIGHT TO MAKE UNANNOUNCED QUALITY-CONTROL TESTS TO VERIFY PROCEDURES USED AND RESULTS BEING OBTAINED BY THE CONTRACTOR.

THE CONCRETE TECHNICIAN SHALL WORK UNDER THE DIRECTION OF A REGISTERED PROFESSIONAL ENGINEER, STATE OF OHIO, WHO WILL MONITOR THE CONCRETE TEST RESULTS. THE FINAL INSPECTION REPORTS FOR EACH COMPLETED ITEM SHALL BE SIGNED BY A REGISTERED PROFESSIONAL ENGINEER, STATE OF OHIO, CERTIFYING THAT ALL CONCRETE TESTS PROVIDED BY THE CONTRACTOR MET APPLICABLE CONTRACT REQUIREMENTS. A FINAL REPORT ISSUED BY THE CONSULTING FIRM SHALL CONTAIN A CERTIFIED STATEMENT OF COMPLIANCE WITH ODOT SPECIFICATIONS AND ANY OTHER CONCLUSIONS REGARDING THE CONCRETE MATERIALS INCORPORATED INTO THE PROJECT. SUCH STATEMENT SHALL BE SIGNED BY A REGISTERED PROFESSIONAL ENGINEER, STATE OF OHIO. AND, THE CONCRETE CONSULTANT SHALL BE REQUIRED TO ATTEND MONTHLY PROGRESS MEETINGS AS REQUIRED BY THE PROJECT ENGINEER.

ADDITIONALLY, THE CONTRACTOR SHALL BE REQUIRED TO KEEP A POSTED LIST OF BEAM AND CYLINDER IDENTIFICATION NUMBERS FOR THE PURPOSE OF IDENTIFYING THE CORRESPONDING PLACEMENT LOCATION AND CONCRETE SPECIFICATION ITEM.

PAYMENT SHALL BE BID AS LUMP SUM FOR ITEM SPECIAL MISC .: CONSULTANT FOR CONCRETE QUALITY CONTROL INCLUDING TESTING AND INSPECTION. THE ITEM WILL BE PAID FOR AS FOLLOWS:

PROGRESSIVE EQUIVALENT PAYMENTS 50% UPON SUBMISSION OF FINAL REPORT30%.

THE TECHNICIAN SHALL HAVE THE FULL EFFECT AND AUTHORITY OF AN ODOT PROJECT INSPECTOR IN DETERMINING ACCEPTABILITY OF MATERIAL AND CONCRETE PLACEMENT PRACTICES.

Add the following plan notes and adjust as applicable to this project. Carry over to gensum as necessary

ROUNDING

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

ITEM 204 - PROOF ROLLING

THE FOLLOWING QUANTITY IS PROVIDED IN THE GENERAL SUMMARY TO ADDRESS LOCATIONS REQUIRING PROOF ROLLING. SEE PLAN SHEET NO. P.15 FOR ADDITIONAL INFORMATION.

ITEM 204 - PROOF ROLLING 2.0 HOUR.

ITEM 204 - SUBGRADE COMPACTION AND PROOF ROLLING

CONSTRUCT THE SUBGRADE AS FOLLOWS AND IN THE FOLLOWING SEQUENCE:

- 1. SHAPE THE SUBGRADE TO WITHIN 0.2 FEET OF THE PLAN SUBGRADE ELEVATION.
- 2. EXCAVATE AND REPLACE UNSUITABLE SUBGRADE BEFORE PROOF THE EXCAVATION LIMITS ARE SHOWN AND LABERLED ON THE CROSS SECTIONS AS UNSUITABLE SUBGRADE, UNSUITABLE SUBGRADE INCLUDES UNSUITABLE SOIL (A-4B, A-2-5, A-5, A-7-5, AND SOIL WITH

A LIQUID LIMIT GREATER THAN 65) AND ANY COAL, SHALE, OR ROCK WHICH NEEDS TO BE REMOVED ACCORDING TO SECTION OF THE CONSTRUCTION AND MATERIAL SPECIFICATIONS (C&MS).

IF THERE IS UNSUITABLE SUBGRADE IN A SHALLOW FILL LOCATION, EXCAVATE AND REPLACE THE UNSUITABLE SUBGRADE BEFORE CONSTRUCTING THE SHALLOW FILL AND SHAPING THE SUBGRADE.

- 3. COMPACT THE SUBGRADE ACCORDING TO C&MS 204.03.
- 4. APPROXIMATE LIMITS FOR EXCAVATION OF UNSTABLE SUBGRADE ARE SHOWN AND LABELED ON THE CROSS SECTIONS AS UNSTABLE THE ENGINEER WILL IDENTIFY THE ACTUAL LIMITS OF EXCAVATION FOR UNSTABLE SUBGRADE BASED ON THE PROOF ROLLING RESULTS AND VISUAL OBSERVATIONS.

PROOF ROLL THE COMPACTED SUBGRADE ACCORDING TO C&MS 204.06.

- 5. EXCAVATE UNSTABLE SUBGRADE AS DIRECTED BY THE ENGINEER AND STABILIZE BY REPLACING WITH THE SPECIFIED MATERIALS ACCORDING TO C&MS 204.07. EXCAVATIONS WILL EXTEND 18 INCHES BEYOND THE EDGE OF THE SURFACE OF THE PAVEMENT, PAVED SHOULDERS. OR PAVED MEDIANS.
- 6. PROOF ROLL THE STABILIZED AREAS ACCORDING TO C&MS 204.06 TO VERIFY STABILITY.
- 7. FINE GRADE THE SUBGRADE TO THE SPECIFIED GRADE.

THE QUANTITIES FOR EXCAVATING THE UNSUITABLE SUBGRADE AND UNSTABLE SUBGRADE ARE BOTH PAID UNDER ITEM 204, EXCAVATION OF SUBGRADE.

ITEM 202 - CURB REMOVED, AS PER PLAN

SAW CUT THE EXISTING CURB FOR THE LIMITS SHOWN ON THE PLANS SUCH THAT THE CURB IS FLUSH WITH THE ADJACENT SURFACES.

POST CONSTRUCTION STORM WATER TREATMENT

THIS PLAN UTILIZES STRUCTURAL BEST MANAGEMENT PRACTICES (BMP'S) FOR POST CONSTRUCTION STORM WATER

VEGETATED FILTER STRIP

THIS PLAN UTILIZES VEGETATED FILTER STRIP(S) FOR POST CONSTRUCTION STORM WATER TREATMENT. THE VEGETATED FILTER STRIPS ARE CURRENTLY IN PLACE AND FUNCTIONAL SO CONTRACTOR DOESN'T NEED TO PERFORM ANY WORK ON EXISTING VEGETATED FILTER STRIPS.

PERMANENT PAVEMENT MARKINGS

THE CONTRACTOR SHALL REFERENCE ALL PAVEMENT MARKINGS INCLUDING AUXILIARY PAVEMENT MARKINGS BEFORE THE START OF THE RESURFACING OPERATION. THIS WILL BE NECESSARY TO ASSURE THE CORRECT PLACEMENT OF MARKINGS IN ORIGINAL LOCATIONS (EXCEPT WHERE NOTED). FOR CENTER LINE MARKINGS, THE CONTRACTOR SHALL INSTALL THE PASSING/NO PASSING ZONE MARKINGS ACCORDING TO THE CURRENT CENTER LINE LOGS ΔΙΔΙΙ ΔΕΙ Ε ΔΤ

http://www.dot.state.oh.us/Divisions/Operations/Traffic/miscellaneous/ Pages/CenterlinePassingandNoPassingZoneLogs.aspx

ALL CROSSWALK MARKINGS WITHIN THE PAVING LIMITS ARE TO BE UPDATED TO HIGH VISIBILITY CROSSWALK MARKINGS (LONGITUDINAL BARS) AS PER SCD TC-74.10. TYPICAL WIDTH OF THE CROSSWALK MARKINGS ARE TO BE 8'

PAYMENT FOR THIS OPERATION SHALL BE INCLUDED WITH EACH RESPECTIVE PAY ITEM.

CONTINGENCY QUANTITIES

THE CONTRACTOR SHALL NOT ORDER MATERIALS OR PERFORM WORK LISTED IN THE GENERAL SUMMARY 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 AT THE ENGINEER'S DIRECTION SHALL BE MADE A MATTER OF RECORD BY INCORPORATION INTO THE FINAL CHANGE ORDER GOVERNING COMPLETION OF THE PROJECT.

ITEM 611 - CATCH BASIN ADJUSTED TO GRADE

THIS WORK SHALL CONSIST OF ADJUSTING CATCH BASINS TO GRADE PRIOR TO THE APPLICATION OF THE SURFACE COURSE AS DIRECTED BY THE ENGINEER. THE FOLLOWING QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY:

ITEM 611 - CATCH BASIN ADJUSTED TO GRADE ...

ITEM 623 - CONSTRUCTION LAYOUT STAKES, AS PER PLAN PRIOR TO THE START OF ROADWAY OPERATION, THE CONTRACTOR SHALL REFERENCE THE LENGTH OF THE PROJECT ON BOTH SIDES OF THE ROADWAY, IN A MANNER SATISFACTORY TO THE ENGINEER. THE PAVEMENT SHALL BE REFERENCED IN 500 FEET INCREMENTS, OR IN INCREMENTS ACCEPTABLE TO THE ENGINEER, IN A SEMIPERMANENT CONDITION.



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ITEM 614 - MAINTAINING TRAFFIC

A MINIMUM OF ONE LANE OF TRAFFIC IN EACH DIRECTION SHALL BE MAINTAINED AT ALL TIMES BY USE OF THE EXISTING PAVEMENT AND THE COMPLETED PAVEMENT, UNLESS OTHERWISE APPROVED BY THE ENGINEER IN WHICH IN THAT CASE AT LEAST ONE LANE SHALL BE MAINTAINED WITH FLAGGING OPERATIONS. AREAS WHERE CURB IS TO BE REPLACED SHALL BE HANDLED ACCORDING TO THE OVERNIGHT TRENCH CLOSING NOTE IN THESE

IN THE EVENT OF A LANE CLOSURE TRAFFIC SHALL BE MAINTAINED VIA FLAGGING IN ACCORDANCE WITH ODOT'S SCD MT-95.61 AND 97.10. LANE CLOSURES SHALL BE RESTRICTED TO WORKING HOURS OF 7:00 AM TO 7:00

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

ACCESS TO AND FROM ALL LOCAL RESIDENTIAL AND BUSINESS DRIVES WITHIN THE LIMITS OF THIS PROJECT SHALL BE MAINTAINED AT ALL TIMES (24 HOURS A DAY) BY USING THE EXISTING PAVEMENT, TEMPORARY PAVEMENT, AND THE PROPOSED PAVEMENT UNLESS OTHERWISE DIRECTED BY THE ENGINEER. IT IS THE CONTRACTOR'S RESPONSIBILITY TO SEQUENCE THE WORK TO HELP MINIMIZE THE NEED FOR TEMPORARY AGGREGATE PAVEMENT. TEMPORARY AGGREGATE PAVEMENT CAN BE ASPHALT GRINDINGS OR OTHER AGGREGATE APPROVED BY THE ENGINEER. THE COST OF INSTALLATION, MATERIAL, AND REMOVAL OF THE TEMPORARY AGGREGATE PAVEMENT IS TO BE PART OF THE ITEM 614 MAINTAINING TRAFFIC LUMP SUM.

THE CONTRACTOR WILL BE REQUIRED TO PROVIDE, ERECT, MAINTAIN (IN PROPER POSITION, CLEAN AND LEGIBLE, AND IN GOOD WORKING CONDITION), AND SUBSEQUENTLY REMOVE ALL LIGHTS, SIGNS, CONES, BARRICADES, EXISTING PAVEMENT MARKINGS, AND ANY OTHER TRAFFIC CONTROL DEVICES NECESSARY FOR THE MAINTENANCE OF TRAFFIC.

THE CONTRACTOR SHALL ADJUST THE LOCATION AND/OR SPACING OF ALL TRAFFIC CONTROL CHANNELING DEVICES AS DICTATED BY THE PROGRESS OF THE REQUIRED WORK TO ALLOW CONSTRUCTION ACCESS TO WORK AREAS WHILE MAINTAINING SAFE AND EFFECTIVE TRAFFIC CONTROL DURING ALL CONSTRUCTION OPERATIONS. THE ORIGINAL LOCATION, PLACEMENT, SPACING AND SUBSEQUENT RELOCATION OR REMOVAL OF ALL TRAFFIC CONTROL DEVICES SHALL BE SUBJECT TO THE ENGINEER'S APPROVAL.

IT IS INTENDED THAT THE TRAFFIC NOT BE SUBJECTED TO ANY LANE CLOSURES UNLESS ACTIVE WORK IS BEING PERFORMED IN OR IMMEDIATELY ADJACENT TO THE CLOSED LANE. THE ROADWAY SHALL NOT BE RESTRICTED TO ANY LANE CLOSURE DURING PERIODS OF INTERMITTENT OR IRREGULAR WORK, NOR CLOSED SOLELY FOR THE CONVENIENCE OF THE CONTRACTOR. THE ENGINEER SHALL MAKE THE FINAL DETERMINATION AS TO WHAT CONSTITUTES ACTIVE WORK AND WHETHER OR NOT THE LANE CLOSURE IS JUSTIFIED.

IF, IN THE OPINION OF THE ENGINEER, THE LANE CLOSURE IS NOT JUSTIFIED, THEY MAY ORDER ALL OR PART OF THE LANE CLOSURE REOPENED TO TRAFFIC (UNTIL SUCH TIME THIS CONDITION IS CORRECTED.)

THE CONTRACTOR SHALL FURNISH AND INSTALL ADVANCE WARNING "ROAD WORK AHEAD" (W20-1) SIGNS AND "END ROAD WORK" (G20-2) SIGNS, ON ALL PUBLIC ROADS ENTERING OR EXITING THE PROJECT LIMITS, AS WELL AS OTHER NECESSARY MAINTENANCE OF TRAFFIC SIGNS.

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

ITEM 614, LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE, AS PER PLAN

USE OF LAW ENFORCEMENT OFFICERS (LEOS) BY CONTRACTORS OTHER THAN THE USES SPECIFIED BELOW WILL NOT BE PERMITTED AT PROJECT COST. LEOS SHOULD NOT BE USED WHERE THE OMUTCD INTENDS THAT

IN ADDITION TO THE REQUIREMENTS OF C&MS 614 AND THE OMUTCD, A UNIFORMED LEO WITH AN OFFICIAL PATROL CAR (CAR WITH TOP-MOUNTED EMERGENCY FLASHING LIGHTS AND COMPLETE MARKINGS OF THE APPROPRIATE LAW ENFORCEMENT AGENCY) SHALL BE PROVIDED FOR THE FOLLOWING TRAFFIC CONTROL TASKS:

• DURING A TRAFFIC SIGNAL INSTALLATION WHEN IMPACTING THE NORMAL FUNCTION OF THE SIGNAL OR THE FLOW OF TRAFFIC, OR WHEN TRAFFIC NEEDS TO BE DIRECTED THROUGH AN ENERGIZED TRAFFIC SIGNAL CONTRARY TO THE SIGNAL DISPLAY (E.G., DIRECTING MOTORISTS THROUGH A RED LIGHT).

IN GENERAL, LEOS SHOULD MANUALLY CONTROL TRAFFIC MOVEMENTS THROUGH SIGNALIZED INTERSECTIONS IN WORK ZONES.

LEOS SHOULD NOT FORGO THEIR TRAFFIC CONTROL RESPONSIBILITIES TO APPREHEND MOTORISTS FOR ROUTINE TRAFFIC VIOLATIONS, HOWEVER, IF A MOTORIST'S ACTIONS ARE CONSIDERED TO BE RECKLESS, THEN PURSUIT OF THE MOTORIST IS APPROPRIATE.

THE LEOS WORK AT THE DIRECTION OF THE CONTRACTOR. THE CONTRACTOR IS RESPONSIBLE FOR SECURING THE SERVICES OF THE LEOS WITH THE APPROPRIATE AGENCIES AND COMMUNICATING THE INTENTIONS OF THE PLANS WITH RESPECT TO DUTIES OF THE LEOS. THE TOWNSHIP SHALL HAVE FINAL CONTROL OVER THE LEOS' DUTIES AND PLACEMENT, AND WILL RESOLVE ANY ISSUES THAT MAY ARISE BETWEEN THE TWO

ENSURE PROVIDED LEOS HAVE BEEN TRAINED APPROPRIATE TO THE JOB DECISIONS THEY ARE REQUIRED TO MAKE WHILE ON THE PROJECT, IN ACCORDANCE WITH C&MS 614.03.

THE LEO SHALL REPORT IN TO THE CONTRACTOR PRIOR TO THE START OF THE SHIFT, IN ORDER TO RECEIVE INSTRUCTIONS REGARDING SPECIFIC WORK ASSIGNMENTS DURING HIS/HER SHIFT. THE LEO IS EXPECTED TO STAY AT THE PROJECT SITE FOR THE ENTIRE DURATION OF HIS/HER SHIFT. THE LEO SHALL REPORT TO THE CONTRACTOR AT THE END OF HIS/HER SHIFT. SHOULD IT BE NECESSARY TO LEAVE THE PROJECT SITE, THE LEO SHALL NOTIFY THE TOWNSHIP. THE CONTRACTOR SHALL PROVIDE THE LEO WITH A TWO-WAY COMMUNICATION DEVICE WHICH SHALL BE RETURNED TO THE CONTRACTOR AT THE END OF HIS/HER SHIFT.

LEOS (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 CAR) FOR ASSISTANCE. THE FOLLOWING ESTIMATED CONTINGENT QUANTITIES HAVE BEEN INCLUDED

ITEM 614, LAW ENFORCEMENT OFFICER WITH 8 HOURS PATROL CAR FOR ASSISTANCE, AS PER PLAN

THE HOURS PAID SHALL INCLUDE ANY MINIMUM SHOW-UP TIME REQUIRED BY THE LAW ENFORCEMENT AGENCY INVOLVED.

ANY ADDITIONAL COSTS (ADMINISTRATIVE OR OTHERWISE) INCURRED BY THE CONTRACTOR TO OBTAIN THE SERVICES OF A LEO ARE INCLUDED WITH THE BID UNIT PRICE FOR ITEM 614, LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE, AS PER PLAN.

OVERNIGHT TRENCH CLOSING

THE BASE WIDENING SHALL BE COMPLETED TO A DEPTH OF NO MORE THAN 3 INCHES BELOW THE EXISTING PAVEMENT BY THE END OF EACH WORK DAY, UNLESS THE BASE WIDENING IS SEPARATED FROM TRAFFIC BY DRUMS OR PORTABLE CONCRETE BARRIER AS SHOWN IN THE PLANS. NO UNPROTECTED TRENCH SHALL BE LEFT OPEN OVERNIGHT. IN CASE WORK MUST BE SUSPENDED BECAUSE OF INCLEMENT WEATHER OR OTHER REASONS, THE TRENCH FOR THE UNCOMPLETED BASE WIDENING SHALL BE BACKFILLED AT THE DIRECTION OF THE ENGINEER.

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 TO INFORM THE SPECIAL HAULING PERMITS SECTION (HAULING.PERMITS@DOT.OHIO.GOV) AND THE DISTRICT PUBLIC INFORMATION OFFICER (PIO). 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 SHALL LIST THE SPECIFIC LOCATION, TYPE OF WORK, ROAD STATUS, DATE AND TIME OF RESTRICTION, DURATION OF RESTRICTION, NUMBER OF LANES MAINTAINED, NUMBER OF LANES CLOSED, MINIMUM VERTICAL CLEARANCE, MINIMÚM WIDTH OF DRIVABLE PAVÉMENT, DETOUR ROUTES, IF APPLICABLÉ, AND ANY OTHER INFORMATION REQUESTED BY THE PROJECT

NOTICE DUE TO PERMITS

21 CALENDAR DAYS PRIOR

NOTIFICATION TIME TABLE

>= 2 WEEKS

ITEM

RAMP &

CHANGES

ROAD	>12 HOURS & < 2 WEEKS	14 CALENDAR DAYS PRIOR
CLOSURES	< 12 HOURS	4 BUSINESS DAYS PRIOR
LANE	>= 2 WEEKS	14 CALENDAR DAYS PRIOR
CLOSURE &	< 2 WEEKS	5 BUSINESS DAYS PRIOR
RESTRICT.		
START OF		
CONST. &		
TRAFFIC	N/A	14 CALENDAR DAYS PRIOR
PATTERN		

DURATION OF CLOSURE

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

Add the following plan notes and adjust as applicable to this project. Carry over to gensum as necessar

ITEM 608 - CURB RAMP, AS PER PLAN

IN AREAS OF INTERSECTION WHERE CURB IS REPLACED, WHEEL CHAIR RAMPS SHALL BE CONSTRUCTED TO MEET ADA REQUIREMENTS IN ACCORDANCE WITH ODOT STANDARD DRAWING BP-7.1 AND AS DIRECTED BY THE ENGINEER.

THE INTENT OF THIS ITEM IS TO INSTALL ADA CURB RAMPS WHERE INDICATED IN THIS SET OF PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING THE EXISTING WALK AND/OR CURB AND GUTTER IN A MANNER THAT DOES NOT DAMAGE OTHER AREAS MEANT TO REMAIN IN PLACE (SEE CURRENT STANDARD DRAWING BP-7.1). AS THESE INSTALLATIONS ARE BEING MADE TO FIT EXISTING CONDITIONS, VARIATIONS FROM STANDARD MAY OCCUR. ANY DEVIATIONS FROM DETAIL IN THESE PLANS MUST FIRST BE APPROVED BY THE ENGINEER, RESTORATION TO EXISTING PAVEMENT AREAS IN FRONT OF THE PROPOSED CURB RAMPS SHALL BE INCLUDED IN THIS ITEM OF WORK, RESTORATION SHALL BE MADE UP TO AND INCLUDE THE SURFACE COURSE, ALL WORK, LABOR, MATERIAL, EQUIPMENT, AND INCIDENTALS NECESSARY TO COMPLETE THIS WORK SHALL BE INCLUDED IN THE UNIT PRICE BID PER SQUARE FOOT FOR ITEM 608, CURB RAMP, AS PER PLAN.

PAVEMENT REPAIR

PAVEMENT REPAIR SHALL CONSIST OF PAVEMENT REMOVED AND REPLACED TO CORRECT COUNTER SLOPE AND/OR CROSS SLOPE AT PROPOSED CURB RAMP BASES, AND/OR FOR EASE OF CONSTRUCTION

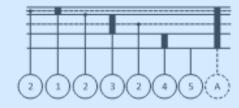
IN ADDITION TO THE REQUIREMENT OF ODOT C&MS SECTION 253, THE CONTRACTOR SHALL REMOVE AN ADDITIONAL WIDTH OF PAVEMENT MEASURED 2 FEET FROM THE FACE OF THE CURB/GUTTER TO BE REMOVED. REFER TO THE TYPICAL SECTION BELOW FOR PAVEMENT BUILD-UP OF THE REPLACEMENT MATERIAL

ESTIMATED QUANTITIES ARE INCLUDED IN THE SUBSUMMARY ON SHEET P.09

THE 6" AGGREGATE BASE SHALL BE INSTALLED UNDER THE CURB AND SHALL EXTEND WIDTHWISE APPROXIMATELY 10" PAST THE BACK OF CURB.

ALL OF THESE ITEMS, INCLUDING THE PAVEMENT REMOVAL, ARE INCLUDED IN THE SQ FT ITEM, CURB RAMP, AS PER PLAN,

TYPICAL SECTION: PAVEMENT REPAIR, AS PER PLAN



ITEM 202 - PAVEMENT REMOVED

ITEM 441 - 3" ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (449), PG64-22 (2 LIFTS)

ITEM 407 - NON-TRACKING TACK COAT

ITEM 301 - 8" ASPHALT CONCRETE BASE, PG64-22 (2 LIFTS)

ITEM 304 - 6" AGGREGATE BASE

ITEM 204 - SUBGRADE COMPACTION

EXISTING PAVEMENT BUILD-UPS WERE NOT FOUND. THE EXISTING PAVEMENT IS EXPECTED TO BE BITUMINOUS CONCRETE OVER PENETRATION MACADAM. REGARDLESS OF MATERIAL FOUND, BACKFILL AS SHOWN IN TYPICAL SECTION ABOVE.

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P.10 | 53

202

REMOVED

FT

S.

MEASURED AREA

314

1065

1395

208

366

441

714

877

928

363

403

50

567

406

204

159

227

142

123

632

365

1224

3345

605

739

627

188

106

503

1091

16

18

14

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SW2

SW3

SW4

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SW6

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SW16

SW17

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SW26

SW27

SW28

SW29

SW30

C1

C2

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C4

C5

3.92-SIDEWALK

HAM CR 96

SHEET

NO.

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TOTALS CARRIED TO GENERAL SUMMARY

102+81.55

105+01.91

108+06.21

107+32.49

108+34.95

109+52.15

110+18.65

111+48.94

112+47.32

112+44.60

113+36.79

112+77.99

114+04.87

114+29.98

116+86.63

116+84.45

117+54.14

117+27.60

120+33.54

121+64.48

121+34.16

124+19.24

127+84.70

125+64.38

127+25.00

128+62.95

128+45.90

128+95.80

130+08.70

132+36.68

116+89.25

117+15.59

117+22.14

127+86.55

128+30.66

102+40.64

102+91.32

105+15.61

106+90.07

107+69.58

108+60.90

108+74.99

109+70.79

110+61.35

111+68.26

112+57.60

112+66.14

112+88.29

113+52.58

116+56.15

116+68.94

117+14.65

117+12.38

120+13.31

120+42.39

120+57.49

121+46.78

121+73.00

124+29.37

125+74.75

127+34.62

128+28.03

128+72.30

129+05.29

130+19.00

116+85.95

117+11.94

117+18.31

127+82.92

128+27.58

202

REMOVED

CURB AND GUTTER

FT

202

WALK REMOVED

SF

617

37

108

81

137

78

161

80

20

101

120

1540

8

15

253

PAVEMENT REPAIR, AS PLAN

CY

411

STABILIZED CRUSHED AGGREGATE

CY

2.91

9.86

12.92

1.93

3.39

4.08

6.61

8.12

8.59

3.36

3.73

0.46

5.25

3.76

1.89

1.47

2.10

1.31

1.14

5.85

3.38

11.33

30.97

5.60

6.84

5.81

1.74

0.98

4.66

10.10

171

0.87

1.02

0.79

0.80

0.87

5

608

CONCRETE WALK

SF

253

976

1395

208

366

441

658

877

868

363

403

50

567

406

123

632

365

1224

3124

605

739

627

106

503

1091

16970

608

CURB RAMP

SF

61

89

56

60

204

159

227

142

221

188

1407

609

CURB, MISC.: BARRIER CURB REPLACED (IN-KIND)

FT

653

TOPSOIL FURNISHED PLACED

CY

12.65

0.43

1.30

0.08

2.64

18

8

3

18

8

15

609

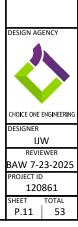
CURB, MISC.: CURB AND GUTTER REPLACED (IN-KIND)

FT

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HAM-C	
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 amilton	

					202	202	653	SPECIAL
REF NO.	SHEET NO.	STATION	SIDE	MEASURED AREA (S.F.)	PAVEMENT REMOVED (ASPHALT)	REMOVAL MISC.: WOOD POST REMOVED	TOPSOIL FURNISHED AND PLACED	MAILBOX SUPPORT SYSTEM, SINGLE
R1	16	104+68.33	LT		SY	EACH	CY	EACH 1
R2	17	107+69.77 TO 108+32.04	RT	853.4	94.82		29.75	'
R3	17	108+29.08	RT	000.4	94.02		29.75	1
R4	17	108+30.82	RT					1
R5	17	109+74.13	LT					1
R6	18	111+37.50	LT					1
	18	112+30.74	RT					1
	18	112+40.16	LT					1
R9	18	113+03.44	LT					1
R10	18	113+27.92	RT					1
R11	18	113+98.59	LT					1
R12	18	114+42.03	RT					1
R13	19	115+25.16	LT					1
R14	19	118+13.15	RT					1
R15	19	118+58.94	LT					1
R16	19	119+19.29	RT					1
R17	19	119+85.89	LT					1
R18	20	120+26.80	LT					1
R19	20	120+31.49	RT					1
R20	20	121+59.24	RT			1		1
R21	20	124+40.41	RT					1
R22	21	125+86.00	RT					1
R23	21	127+42.55	RT					1
R24	21	128+81.76	RT					1
R25	21	128+87.20	RT					1
R26	22	130+31.20	RT					1
R27	22	131+85.40	RT					1
		TOTALS CARRIED TO GENERAL SUMMARY			95	1	30	26

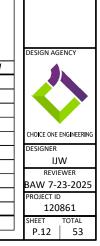
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								202	202	202	253	301	304	407	411	441	441	452	452	609
REF NO.	SHEET NO.	STATION	SIDE	DRIVE TYPE	DRIVE WIDTH (AT BACK OF APRON)	DRIVE WIDTH (AT MEET EXISTING POINT)	DRVE AREA (MEASURED S.F.)	PAVEMENT REMOVED (CONCRETE)	PAVEMENT REMOVED (ASPHALT)	CURB REMOVED	PAVEMENT REPAIR, AS PER PLAN	ASPHALT CONCRETE BASE, PG64.22, (449)	AGGREGATE BASE	NON-TRACKING TACK COAT, APPLIED AT 0.06 GAL/S.Y.	STABILIZED CRUSHED AGGREGATE	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (449), (DRIVEWAYS)	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1, (449), (DRIVEWAYS)	7" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC 1P	8" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC 1P	CURB, MISC.: BARRIER CURB REPLACED (IN-KIND)
								SY	SY	FT	CY	CY	CY	GAL	CY	CY	CY	SY	SY	FT
DR1	17	105+08.80	LT	RES.	13.5	22.7	377	2.89	32.93		2.38				3.08			37.00		
DR2	17	107+44.90	RT	СОММ.	36.3	46.9	1181		121.23	10	5.18	1.83	2.74	1.97	8.70	0.57	1.26		104.40	
DR3	17	108+42.00	LT	COMM.	26.2	86.7	2281		234.80	29	8.82	18.43	27.65	19.91	5.83	5.76	12.67		69.92	29
DR4	17	108+52.70	RT	СОММ.	40.4	54.4	818.5		80.17	3	5.55	2.48	3.72	2.68	4.79	0.78	1.71		57.50	5
DR5	17	109+66.40	LT	RES.	16.6	30.9	418.4	33.26	3.21		3.28				3.33			39.91		
DR6	18	110+40.00	RT	СОММ.	42.7	69.2	899.1		99.90			11.10	16.65	11.99		3.47	7.63			
DR7	18	111+57.90	LT	RES.	29.3	36.2	857.8	84.53			3.88				7.30			87.54		
DR8	18	112+52.50	RT	RES.	10.6	22.2	300.8		26.50		2.38		1.32	0.36	1.89	0.21	0.45	22.72		
DR9	18	112+54.70	LT	RES.	21.8	26.4	460.3	43.26			2.88				3.78			45.38		
DR10	18	112+83.00	LT	RES.	9.9	19.9	236.8	20.39			2.13				1.84			22.06		
DR11	18	113+45.00	RT	RES.	16.4	26.5	396.1	35.20			2.87				3.19			38.28		
DR12	20	120+38.00	LT	RES.	8.9	18.8	251.9		24.10		2.01		1.31	0.35	1.51	0.20	0.45	18.07		
DR13	20	121+40.30	RT	RES.	11.4	21.7	251.6	18.20			2.31				1.94			23.33		
DR14	20	121+68.40	LT	RES.	9.4	25.4	346		31.92		2.69		2.62	0.71	1.77	0.41	0.90	21.29		
DR15	20	124+24.70	RT	RES.	9.0	23.6	234.1	18.38			2.47				1.76			21.08		
DR16	21	125+69.70	RT	RES.	10.1	23.0	313.2		29.01		2.43		2.77	0.75	1.46	0.43	0.95	17.48		
DR17	21	127+30.50	RT	RES.	9.5	23.5	193.8		16.18		2.44		1.18	0.32	0.95	0.18	0.41	11.34		
DR18	21	128+68.20	RT	RES.	9.2	25.2	313.3		22.32		2.69		1.37	0.37	1.94	0.21	0.47	23.28		
DR19	21	129+01.10	RT	RES.	9.2	24.6	304		21.83		2.62		1.39	0.37	1.86	0.22	0.48	22.31		
DR20	22	130+13.90	RT	RES.	10.3	23.5	298.4		27.66		2.51		1.53	0.41	1.77	0.24	0.52	21.29		
TOTALS	CARRIED TO	O GENERAL SUMMA	λŔΥ		•			257	772	42	62	34	65	41	59	13	28	473	232	34



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REF NO.	SHEET NO.	LOCATION	STATION	This is ger pedestal for 632 SIDE	nerally paid and pundation, Itel	SIZE (INCHES)	LIGHT POLE FOUNDATION, 224" X 6' DEEP	GROUND MOUNTED SUPPORT, NO. 3 POST	SIGN POST REFLECTOR	SIGN, FLAT SHEET	REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL	REMOVAL OF GROUND MOUNTED SIGN AND REERECTION	RE	SIGNING, MISC.: RECTANGULAR RAPID FLASHING BEACON (RRFB) SIGN ASSEMBLY
							EACH	FT	EACH	SF	EACH	EACH	EACH	EACH
					M4-5						1			
S1	46	SPRINGDALE RD	103+88.00	LT	M1-1						1] 1	
					M6-3						1			
					M4-5	24"X12"				2				
S2	46	SPRINGDALE RD	104+15.00	LT	M1-1	30"X24"		15		5				
					M6-3	21"X15"				2.19				
S3	47	SPRINGDALE RD	110+63.00	RT	R1-1	30"X30"		13	1	6.25				
S4	47	SPRINGDALE RD	110+65.85	RT	R1-1 CUSTOM	\sim					1		1	
S5	48	SPRINGDALE RD	127+76.00	LT	R9-3	12"X18")	12	 	1.5				
					D3-1						1	1		
S6	48	SPRINGDALE RD	127+81.00	LT	R1-1 R7-1 CUSTOM		18x18				1 1		1	
§ S7	48	SPRINGDALE RD	127+86.00	LT	R1-1	30"X30"		14	1	6.25	,			
S8	48	SPRINGDALE RD	127+87.00	RT	R9-3	12"X18"		12	- '	1.5			-	
S9	48	SPRINGDALE RD	128+27.00	RT	R9-3	12"X18"		12		1.5				
S10	48	SPRINGDALE RD	128+39.00	LT	R9-3	12"X18"		12		(1.5)				
\$11	49	SPRINGDALE RD	131+35.00	RT	W11-2 W16-9P	30"X30" 24"X12"		15		6.25				
S12	49	SPRINGDALE RD	132+17.00	RT	W11-2	24 X 12				2	1		1	
			420.20.00		W16-7PL						1			
S13	49	SPRINGDALE RD	132+36.00	RT			1							1
S14	49	SPRINGDALE RD	132+48.00	LT	14/44 6		1							1
<u></u>	40	CDDIMODALE DD	1221 22 00	LT	W11-2			12			1	-		
S15	49	SPRINGDALE RD	132+33.00	"	W16-7PL CUSTOM			12			1	1	1	
šI						2011/2011				6.05		1		
S16	49	SPRINGDALE RD	133+85.00	LT	W11-2	30"X30"		15		6.25				
367		TOTALS CARRIED	<u> </u>) TO GENERAL SUMN	MADV	W16-9P	24"X12"		132		2 45	12		5	
P L		IOTALS CARRIEL	TO GENERAL SUM	MART			2	132	2	45	12	2	၂ ၁	2

			642	642	642	642	642	642
REF NO.	SHEET NO.	STATION	STOP LINE, TYPE 1	CROSSWALK LINE, 12", TYPE 1	CROSSWALK LINE, 24", TYPE 1	LANE ARROW, TYPE 1	REMOVAL OF PAVEMENT MARKING	REMOVAL OF PAVEMENT MARKING
			FT	FT	FT	EACH	FT	EACH
TW1	46	102+86.00			80			
TW2	47	116+76.00			60			
TW3	47	117+22.00			70			
XW1	48	128+06.00		82			61	
SL1	48	128+01.00	22					
LA1	48	127+95.38				1		1
LA2	48	128+06.42				1		1
TOTALS	CARRIED	TO GENERAL SUMMARY	22	82	210	2	61	2



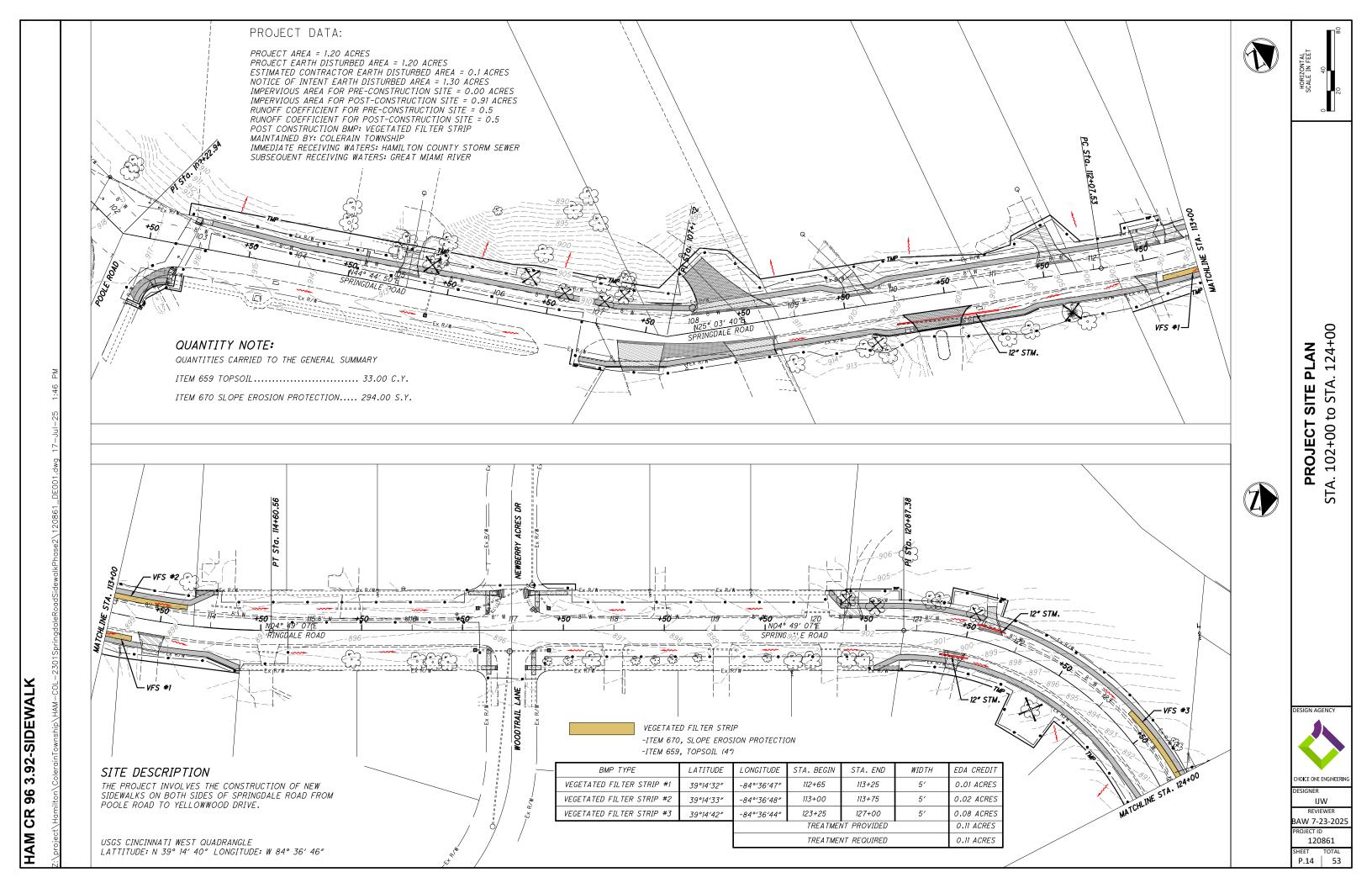
HAM CR 96 3.92-SIDEWALK

				202	SPECIAL	509	611	611	638	638	638	638	638	638	638	638	638	638	SPECIAL
REF NO.	SHEET NO.	STATION TO STATION	SIDE	PIPE REMOVED, 24" AND UNDER	PIPE CLEANOUT, 24" AND UNDER	CONCRETE REINFORCEMENT, MISC.: REINFORCING STEEL (PER GCMW PLANS)	12" CONDUIT, TYPE D	CATCH BASIN ADJUSTED TO GRADE	WATER WORK, MISC.: REMOVING FIRE HYDRANT (PER GCWW PLANS)	WATER WORK, REMOVING EXISTI BOX (PER GCWM	WATER WORK, MISC.: FURNISHING AND INSTALLING FIRE HYDRANT (PER GCWW PLANS)	WATER WORK, MISC.: FURNISHING AND INSTALLING FIRE HYDRANT EXTENSION, 6" LONG (PER GCWW PLANS)	WATER WORK, MISC.: FURNISHING AND INSTALLING VALVE BOX COMPLETE (PER GCWW PLANS)	WATER WORK, MISC.: FURNISHING AND INSTALLING CURB AND ROADWAY BOX (PER GCWW PLANS)	WATER WORK, MISC.: RESETTING EXISTING CURB AND ROADWAY BOX (PER GCWW PLANS)	WATER WORK, MISC.:RESETTING EXISTING VALVE BOXES COMPLETE (PER GCWW PLANS)			CONCRETE, CLASS ". GCWW PLANS)
				FT	FT	LB	FT	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	FT	FT	CY
D1	17-18	109+99.31 TO 111+00.00	RT	88			101												
D2	18	114+47.65 TO 114+67.07	RT		20														
D3	20	121+25.87 TO 121+56.00	RT	24			28												
D4	20	121+58.03 TO 121+84.53	LT	22			28												
D5	21	127+69.62	LT					1											
WW1	16	104+32.39	LT			30			1	1	1	1	1				8	15	1
WW2	17	107+57.72	RT											1					
WW3	17	108+81.56	LT													1			
WW4	17	109+72.58	LT											1					
WW5	18	110+81.57	LT												1				
WW6	18	112+00.00	LT											1					
WW7	18	113+21.38	LT											1					
WW8	20	124+03.29	RT											1					
WW9	21	125+31.86	LT											1					
WW10	21	<i>125+89.49</i>	RT											1					
WW11	21	127+09.16	RT											1					
WW12	21	128+21.32	RT											1					
	TC	TALS CARRIED TO GENERAL SUMMARY		134	20	30	157	1	1	1	1	1	1	9	1	1	8	15	1

		I	632	632	632	632	633	1	
			032	032	032	032	033		
SHEET NO.	LOCATION	SIDE	ACCESSIBLE PEDESTRIAN PUSHBUTTON, AS PER PLAN (GENERIC) (ALTERNATE#1)	ACCESSIBLE PEDESTRIAN PUSHBUTTON, AS PER PLAN (POLARA) (ALTERNATE#2)	COVERING OF PEDESTRIAN SIGNAL HEAD	REMOVAL OF MISCELLANEOUS TRAFFIC SIGNAL ITEM, PEDESTRIAN PUSHBUTTON	CONTROLLER ITEM, MISC.: REPROGRAM CABINET		
			EACH	EACH	EACH	EACH	EACH		
52	Ex. SP-3 (102+97.53, 23.62' LT)	LT	1	1	1	1			
52	Ex. SP-4 (102+79.61, 33.08' RT)	RT	1	1	1	1	1		
	TOTALS CARRIED TO GENERAL SUMMARY		2	2	2	2	1		



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SHEET TOTAL
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STA. 124+00 to STA. 135+00 PROJECT SITE PLAN

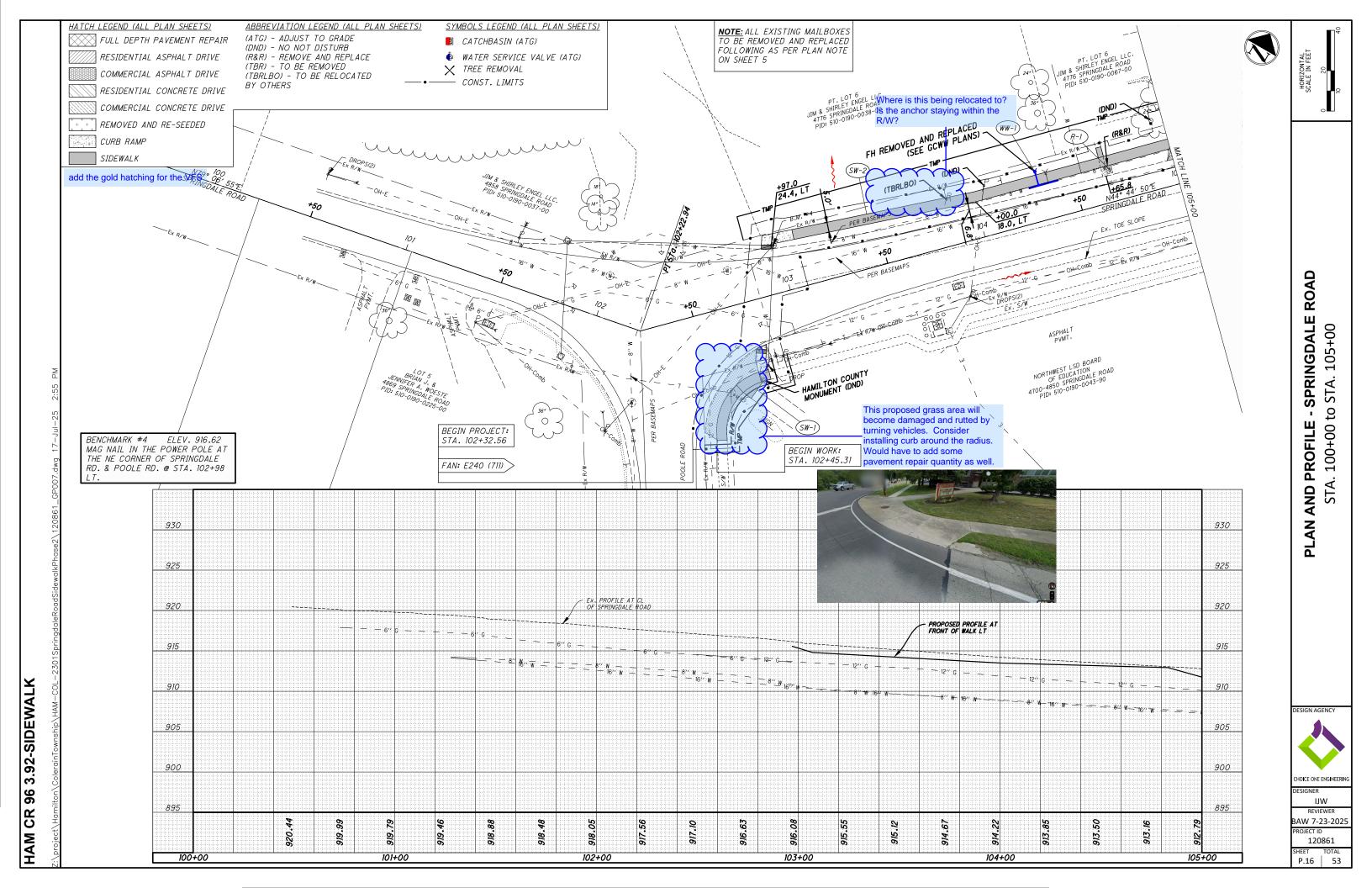


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P.15 | 53

CHOICE ONE ENGINEERIN IJW



- SPRINGDALE ROAD STA. 105+00 to STA. 110+00 PLAN AND PROFILE

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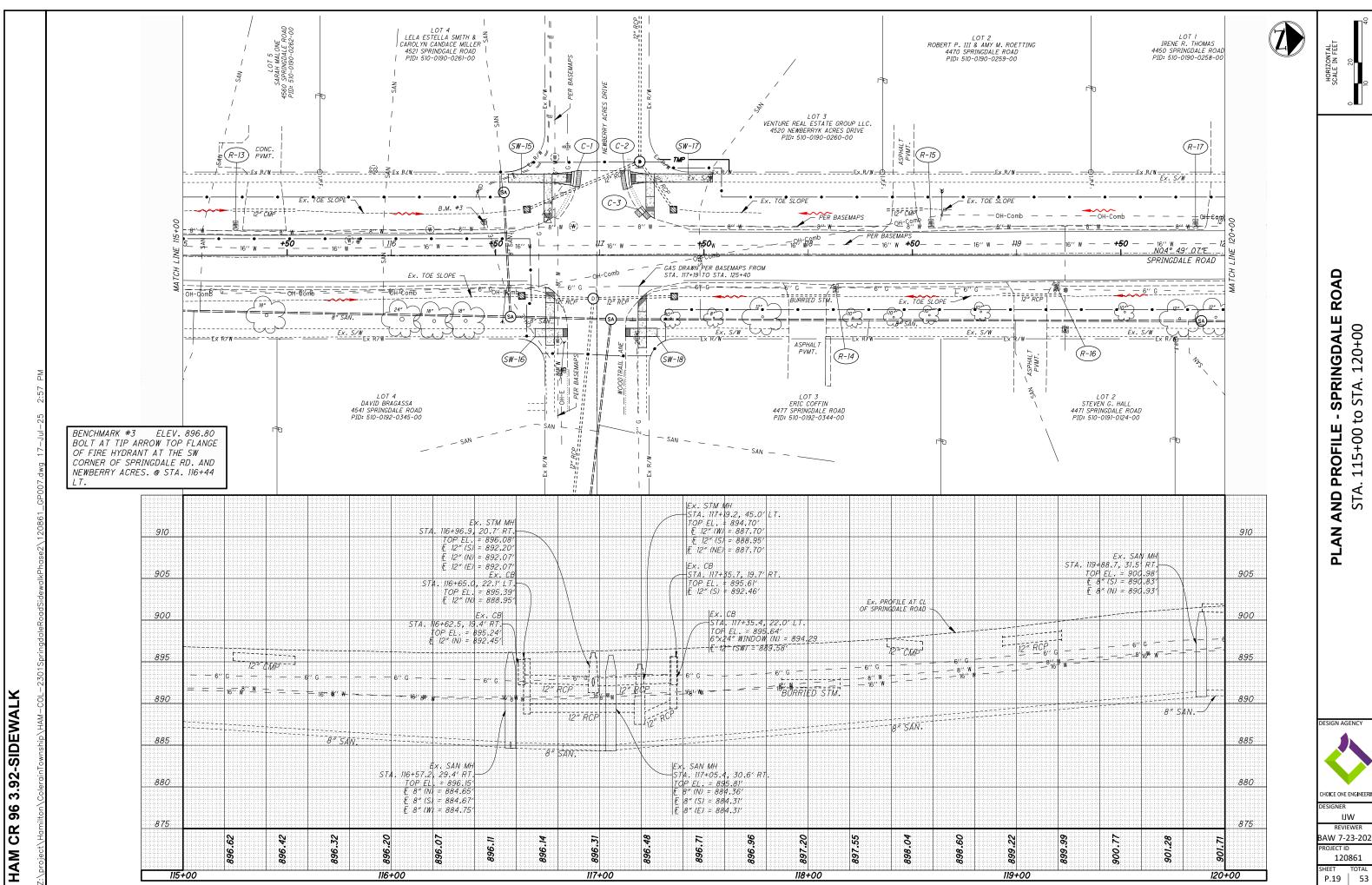
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HORIZONTAL SCALE IN FEET

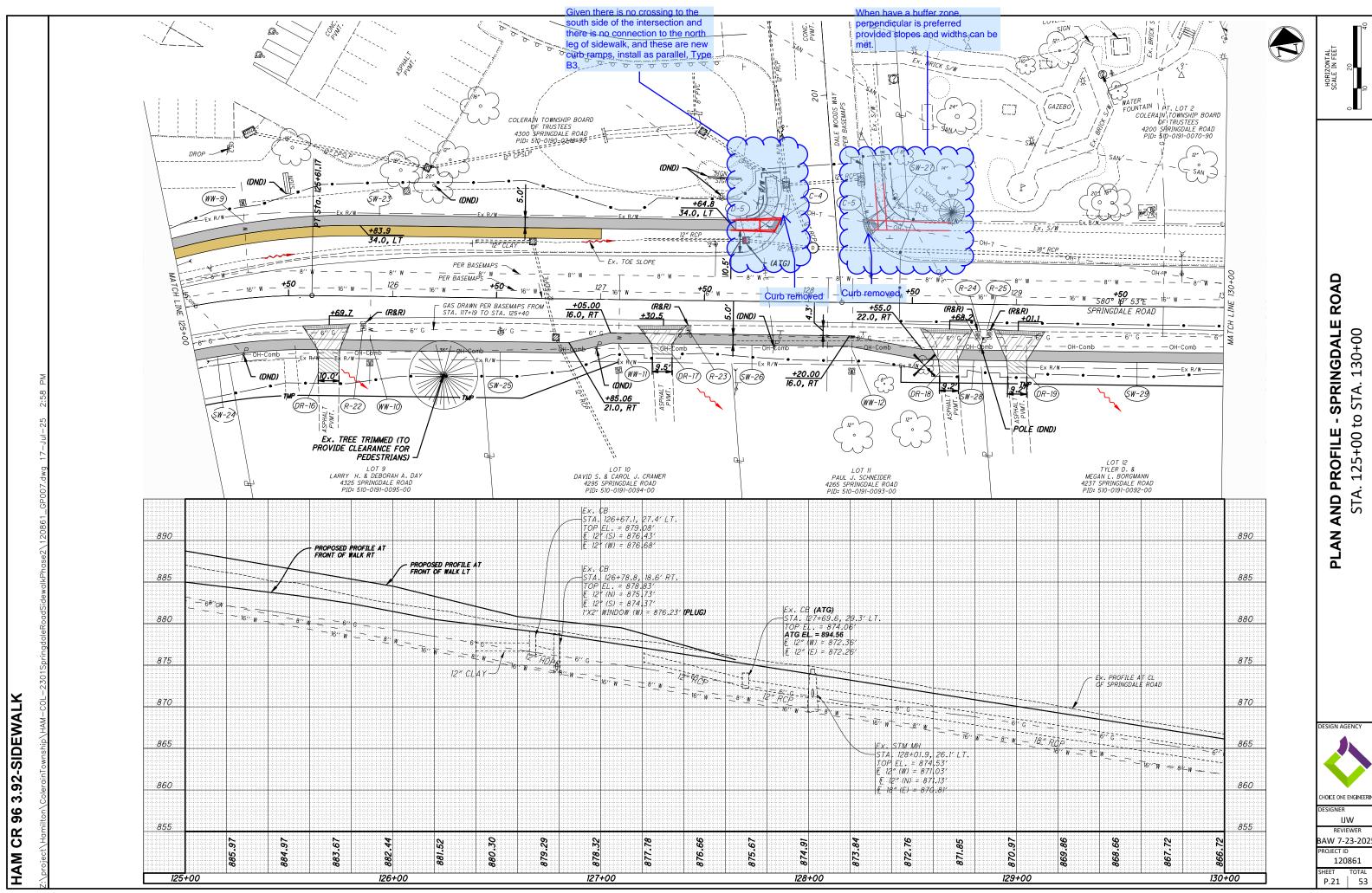


- SPRINGDALE STA. 115+00 to STA. 120+00 PLAN AND PROFILE

CHOICE ONE ENGINEERIN IJW

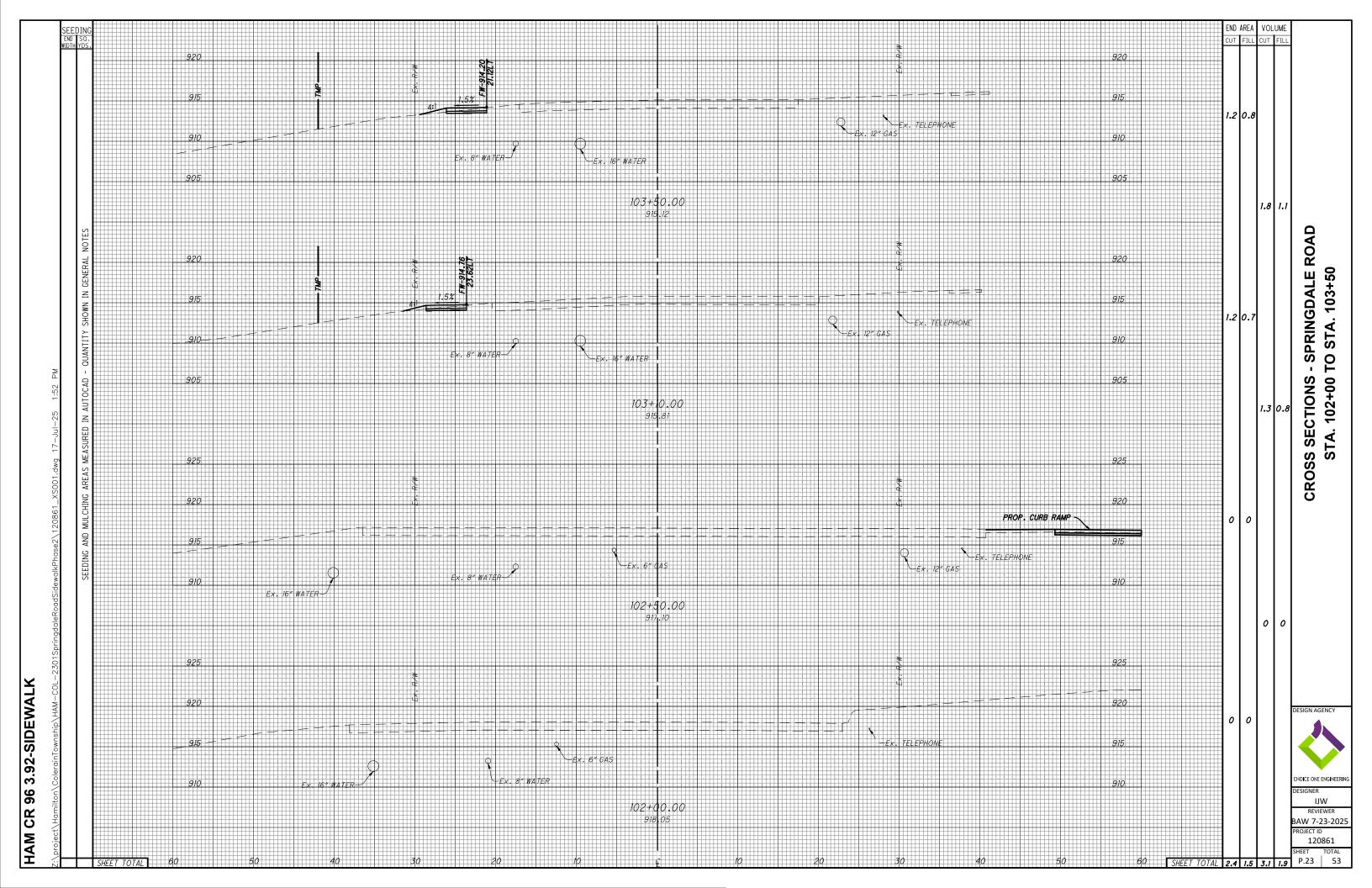
REVIEWER BAW 7-23-202

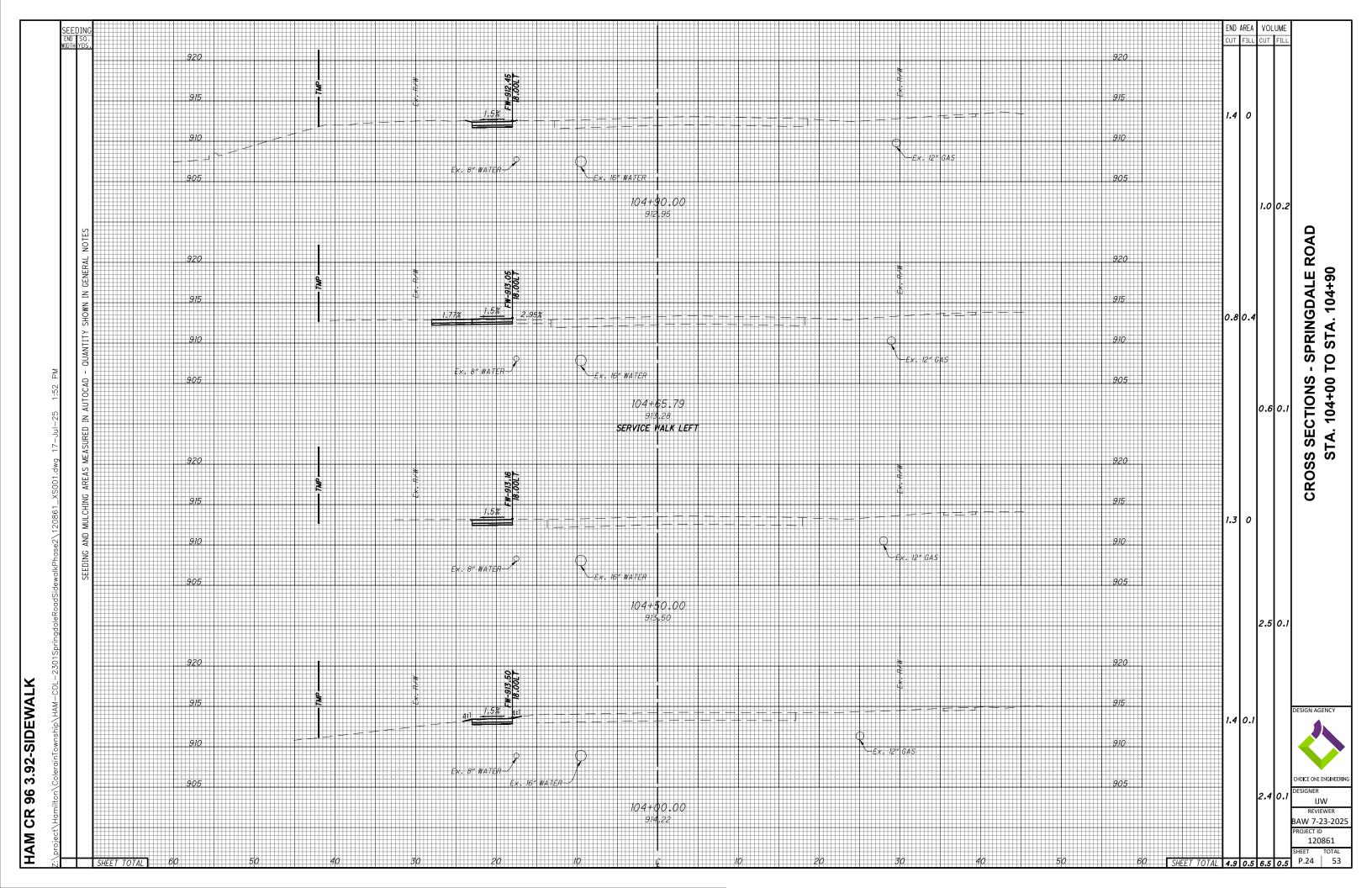
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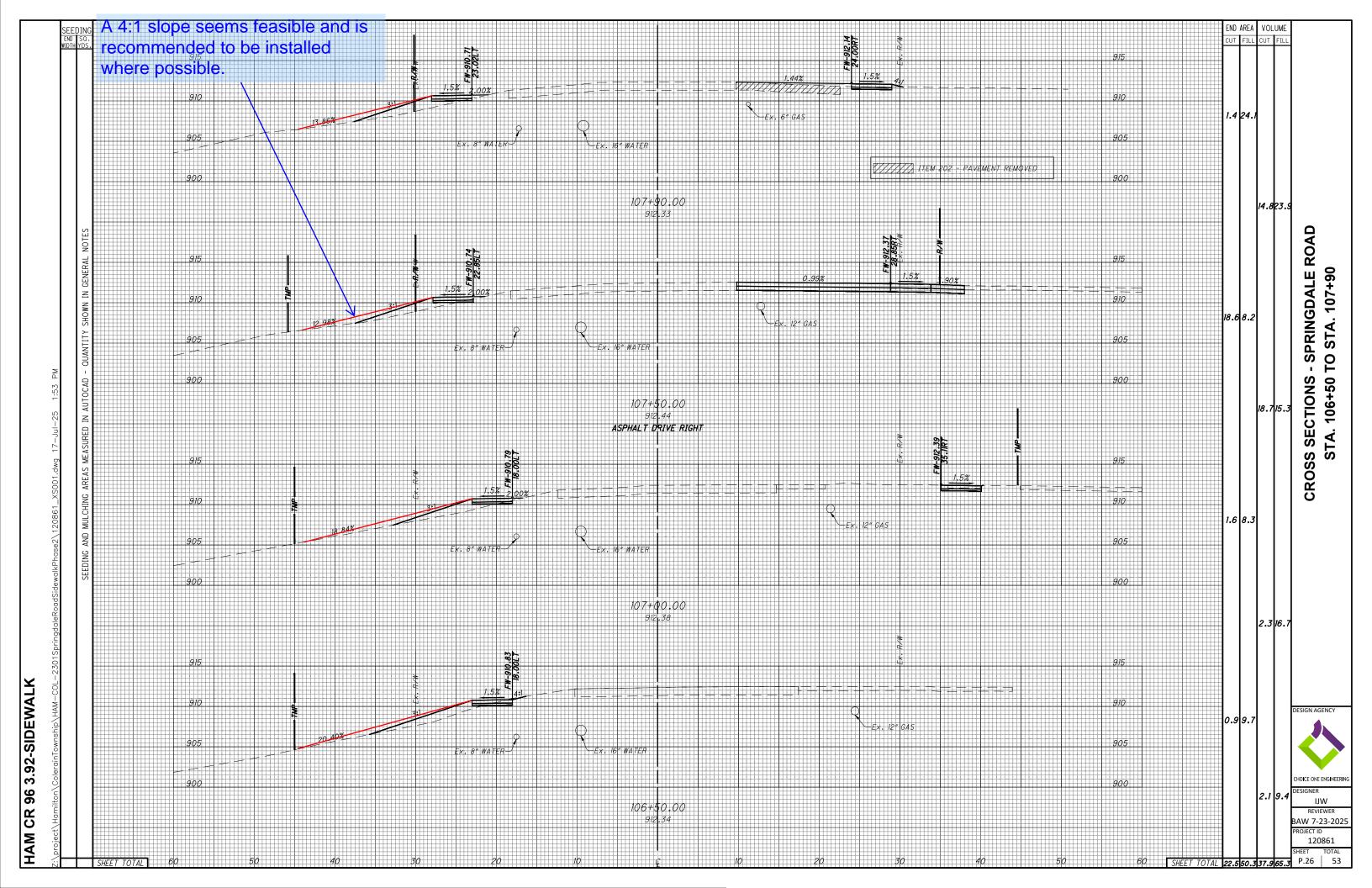
STA. 125+00 to STA. 130+00

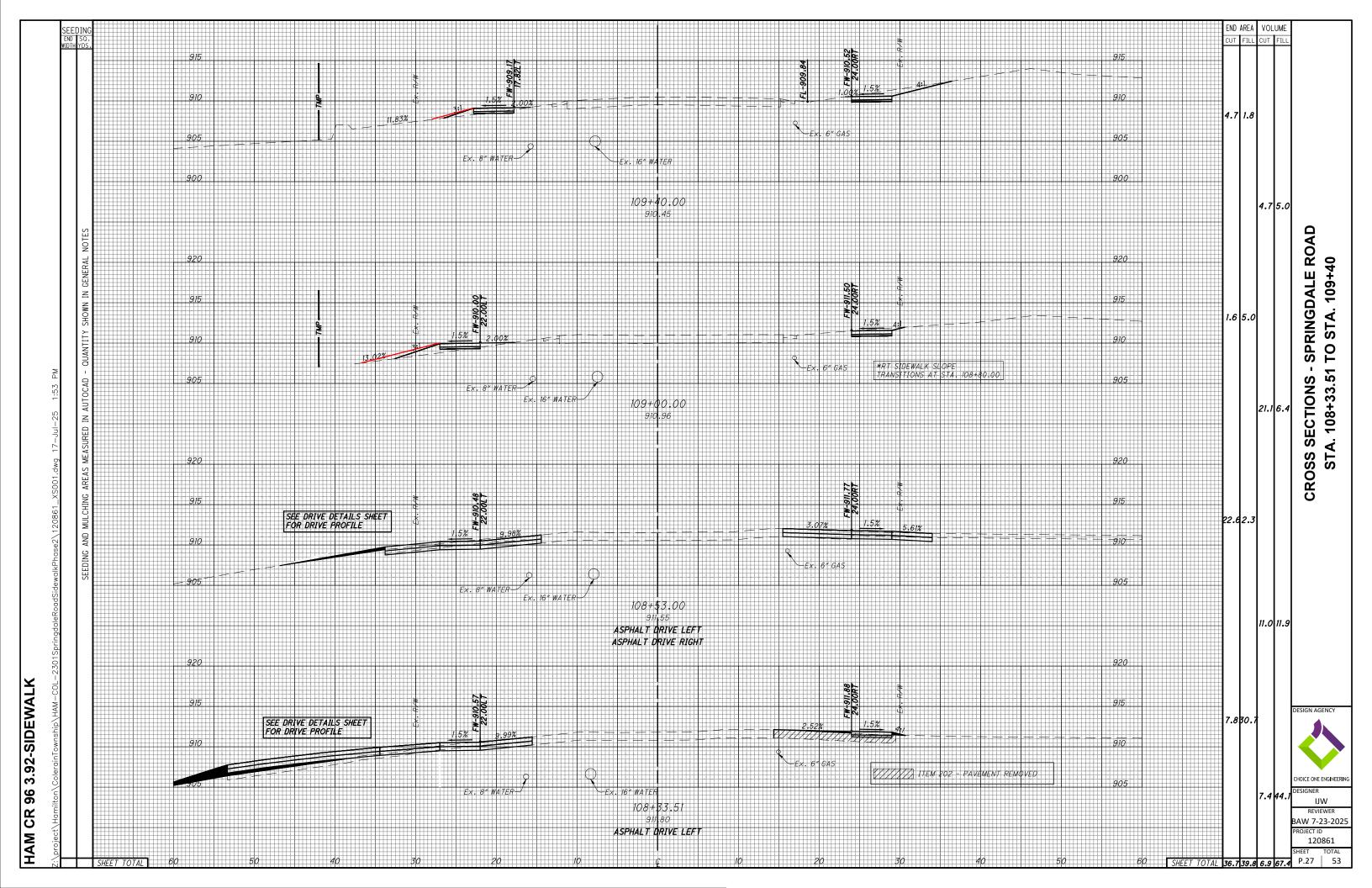


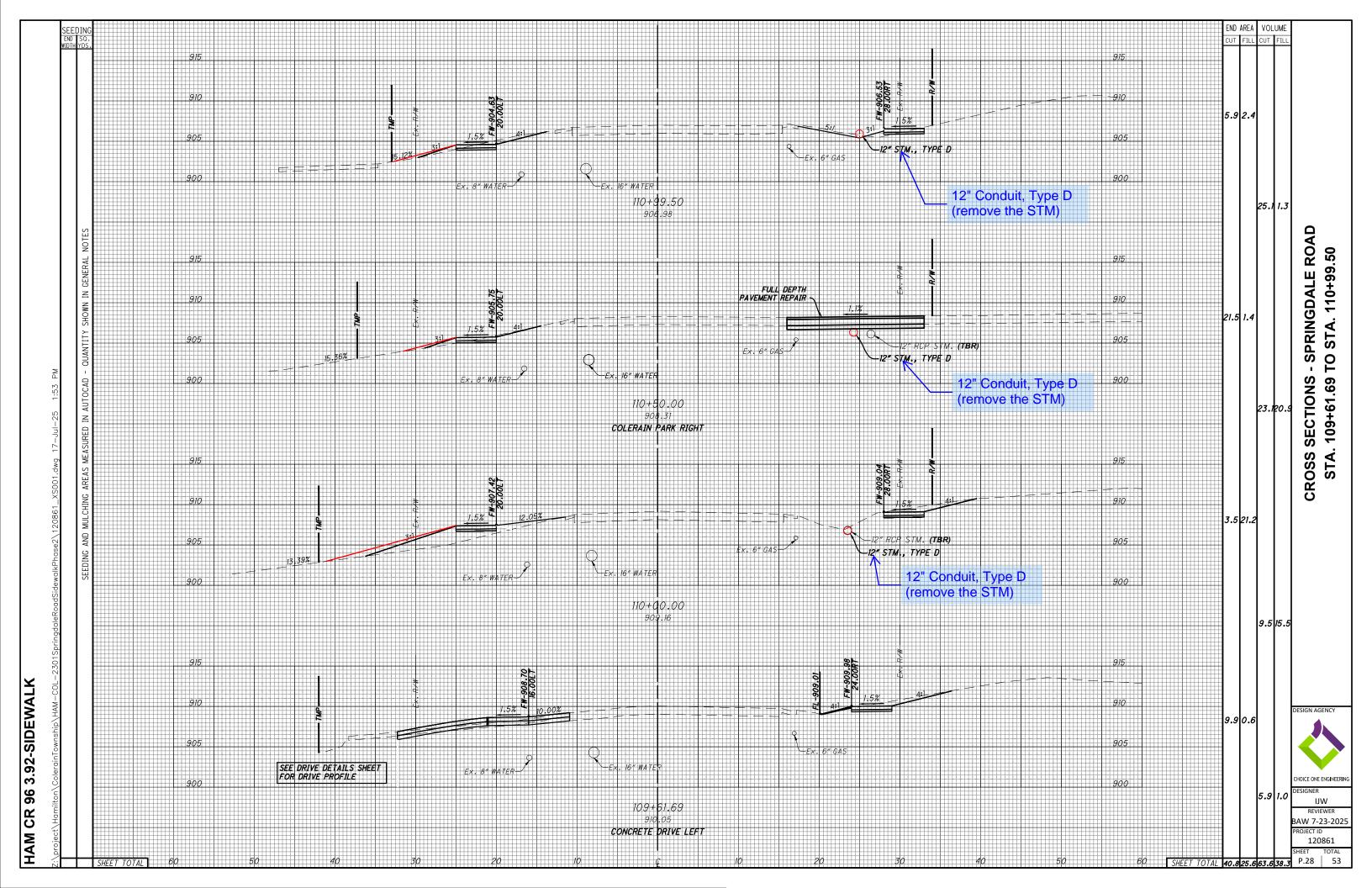


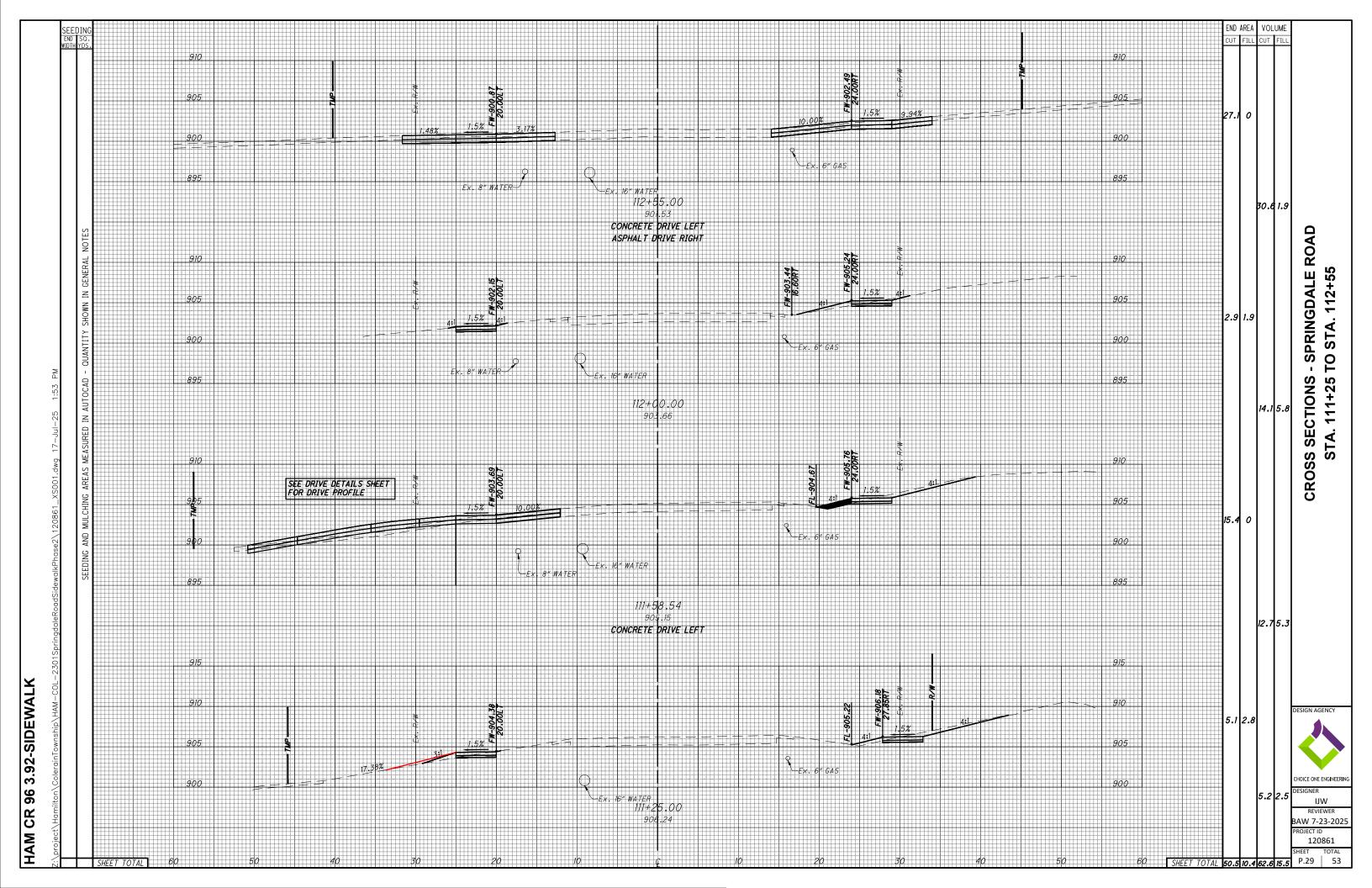


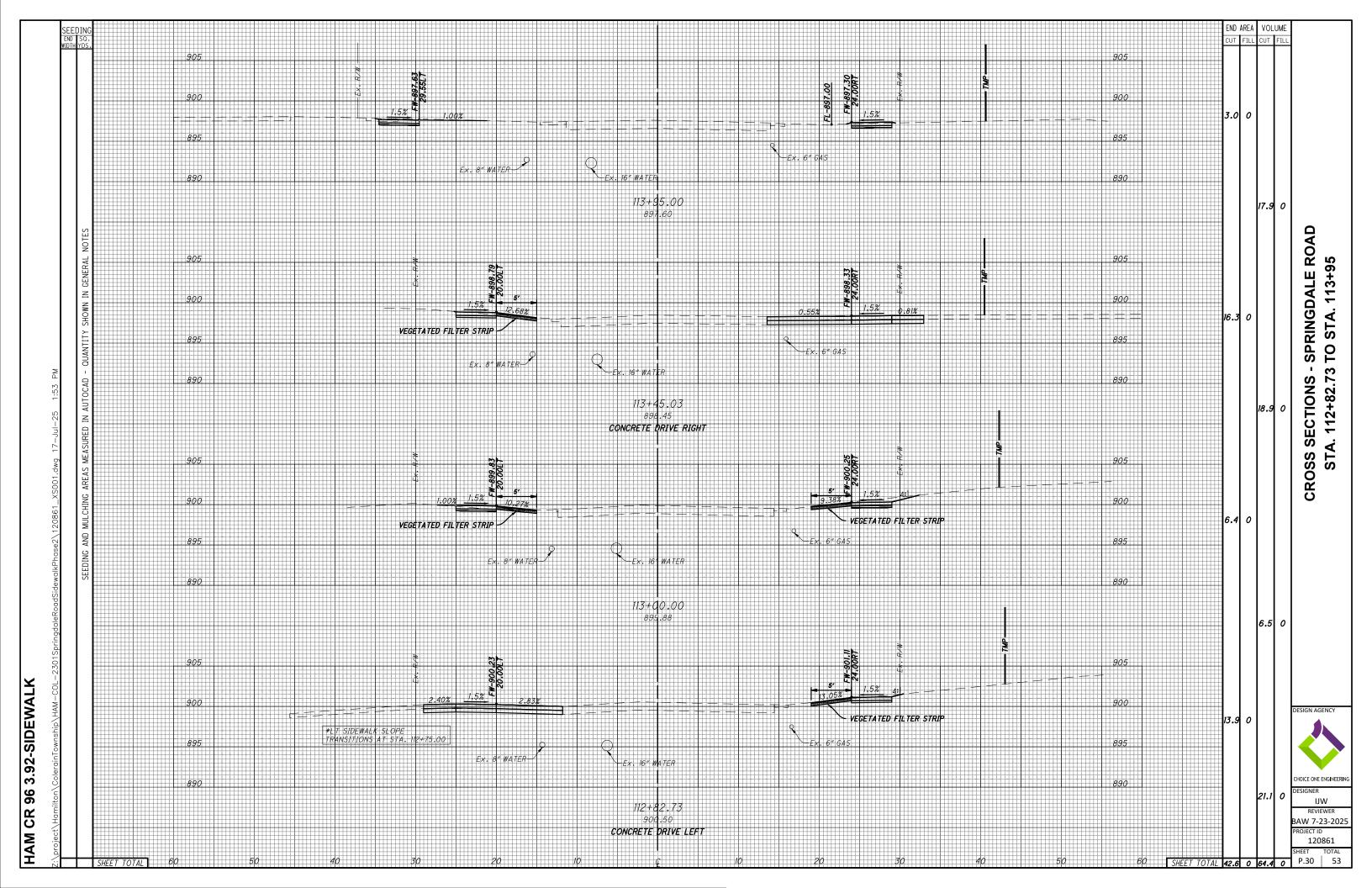


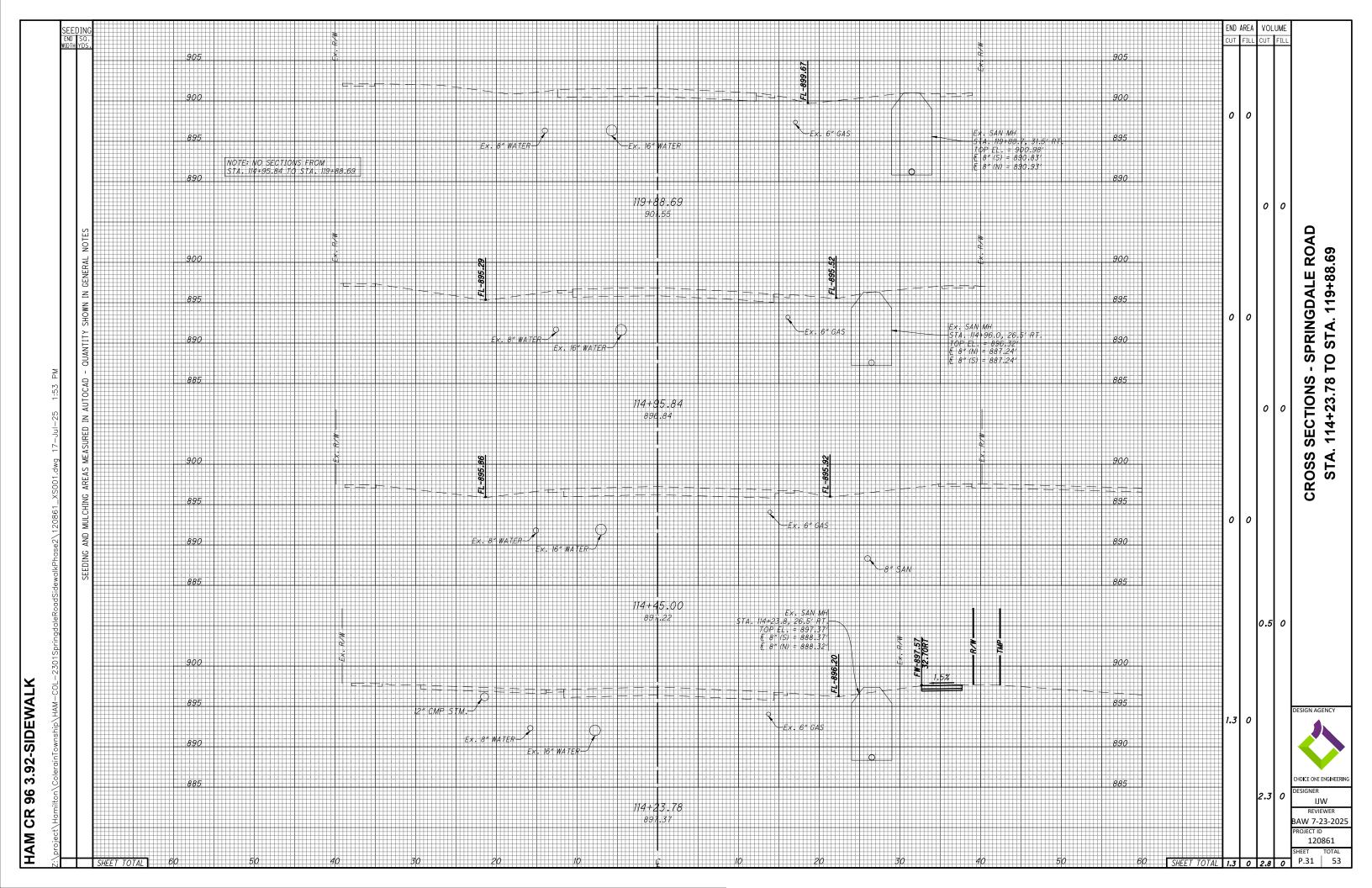


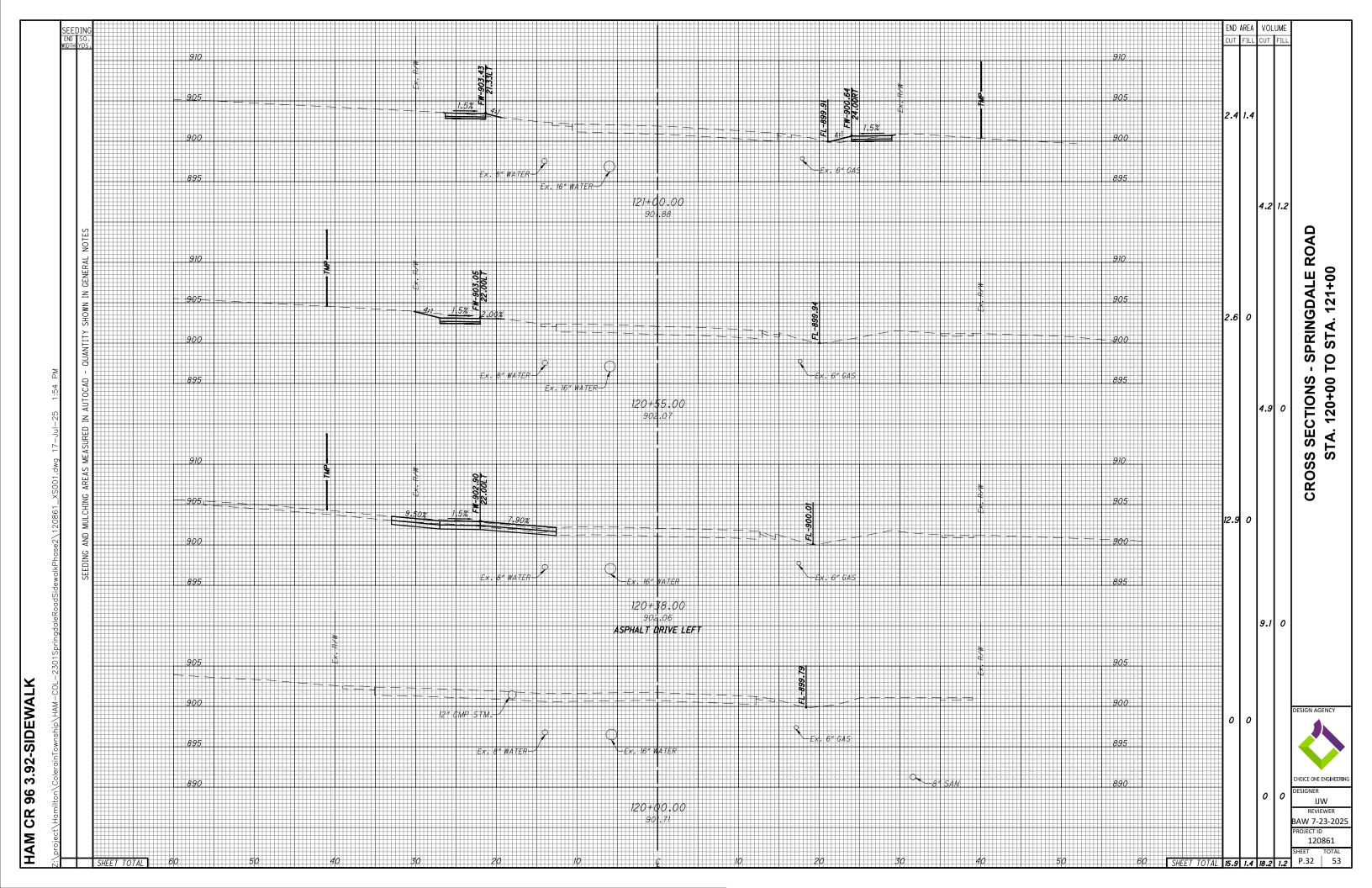




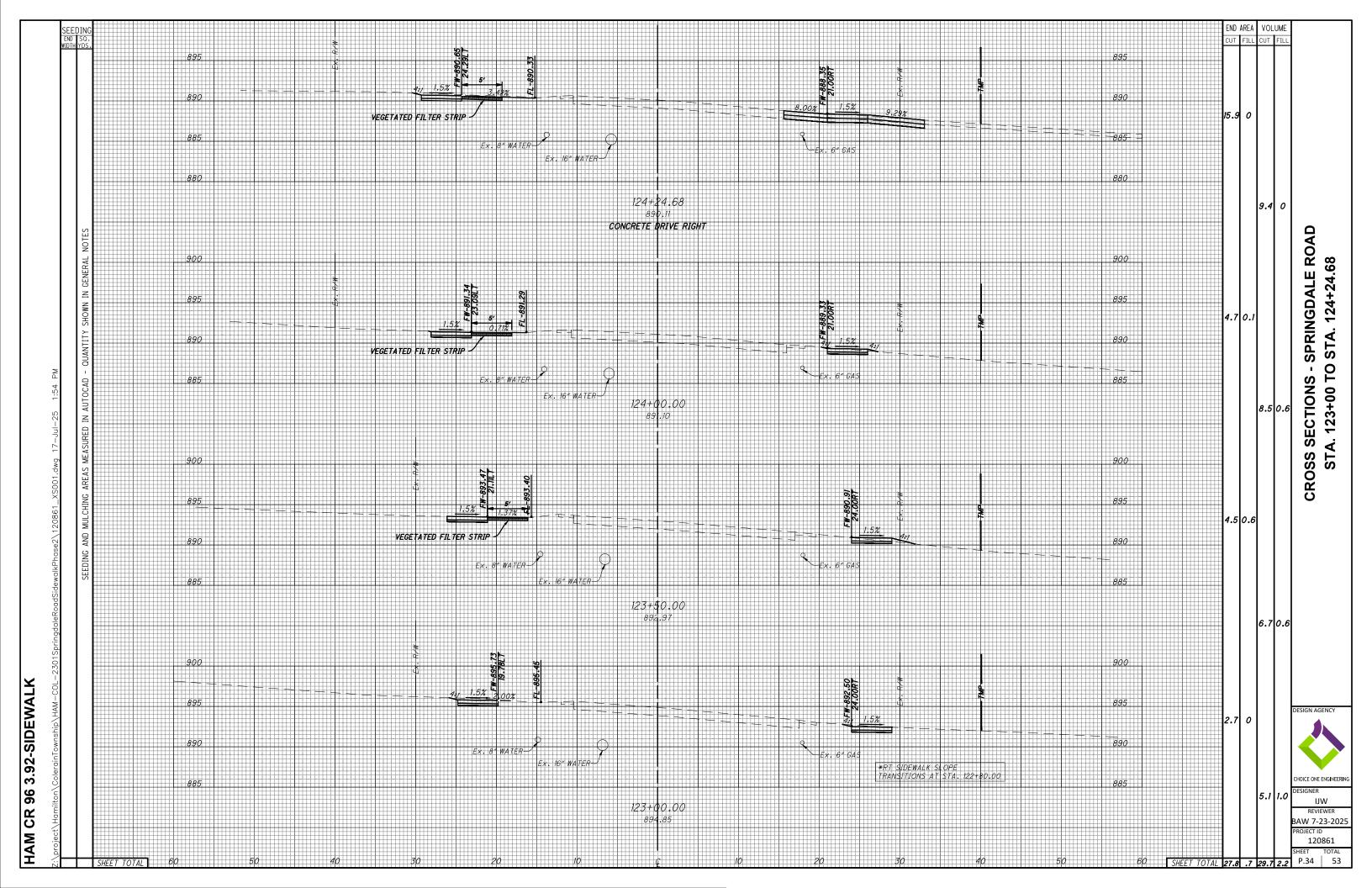


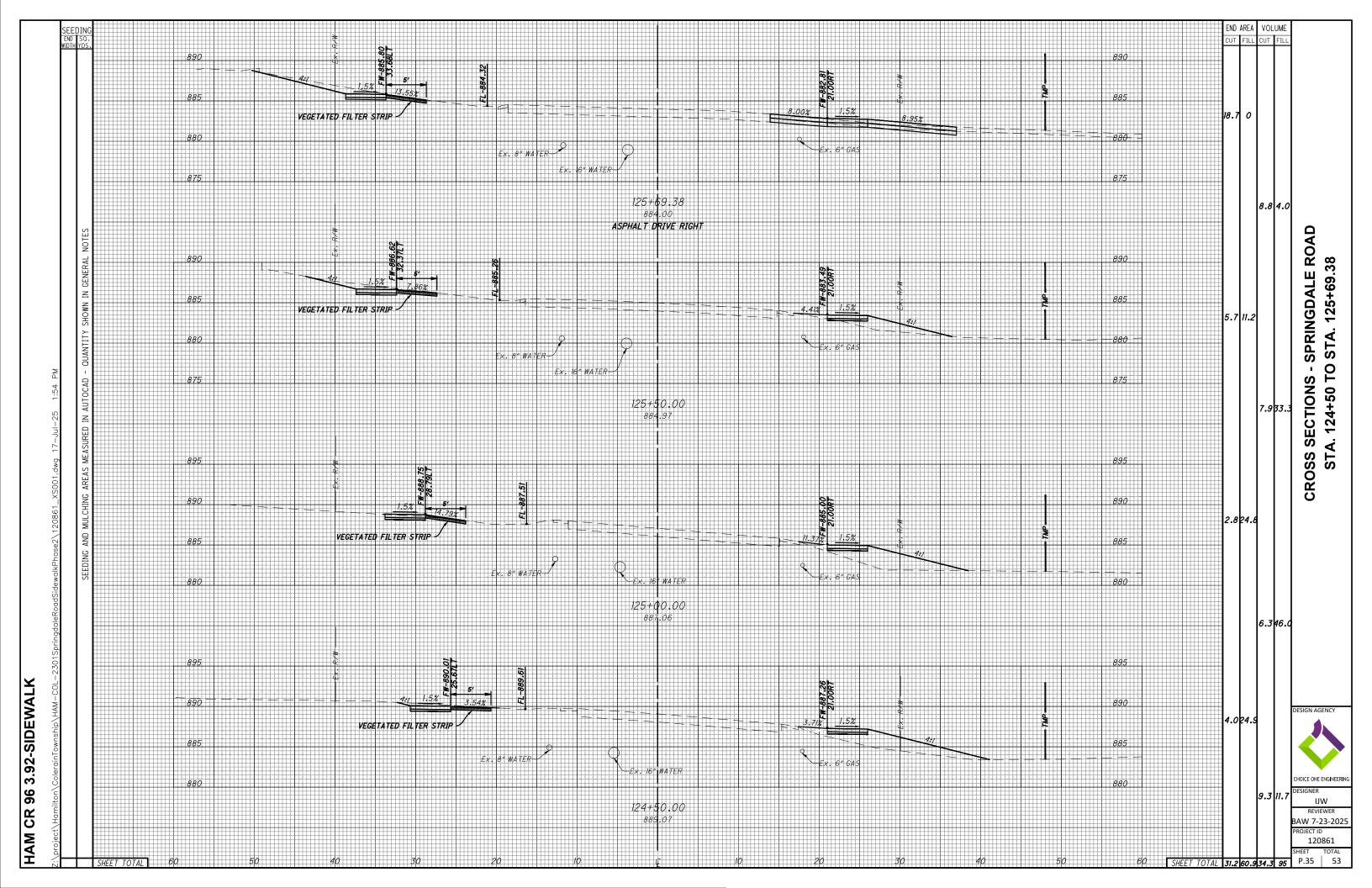


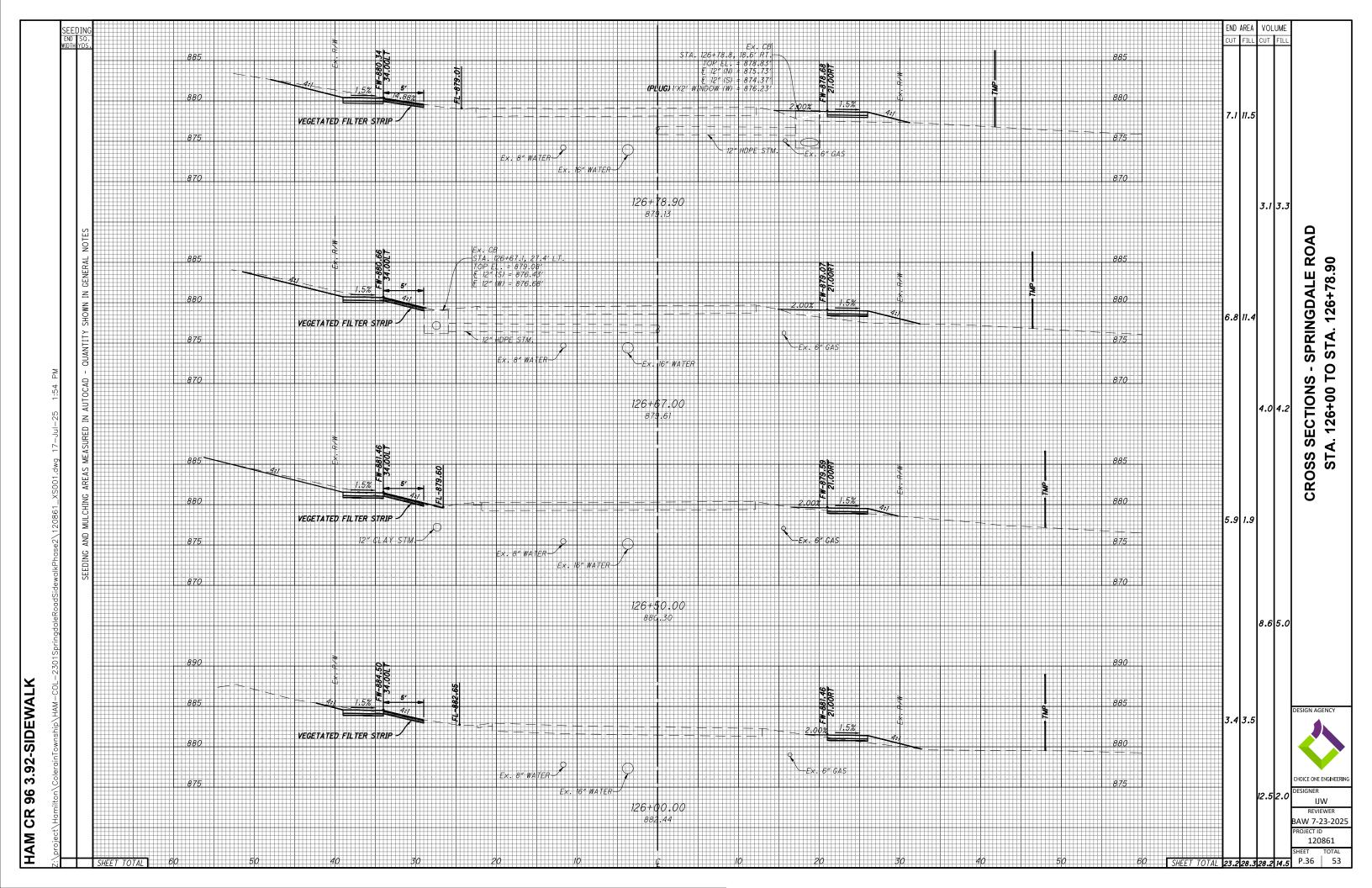


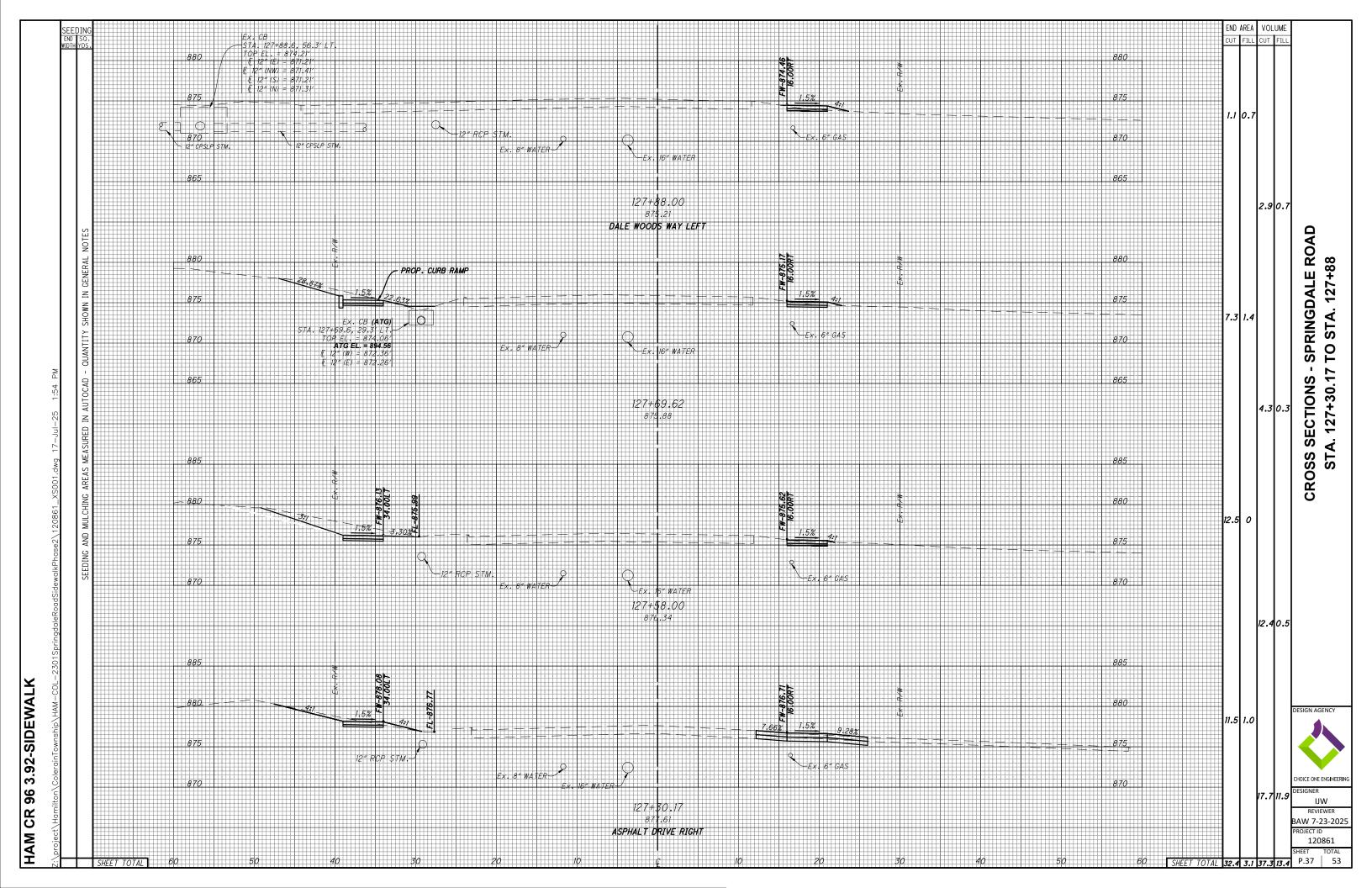


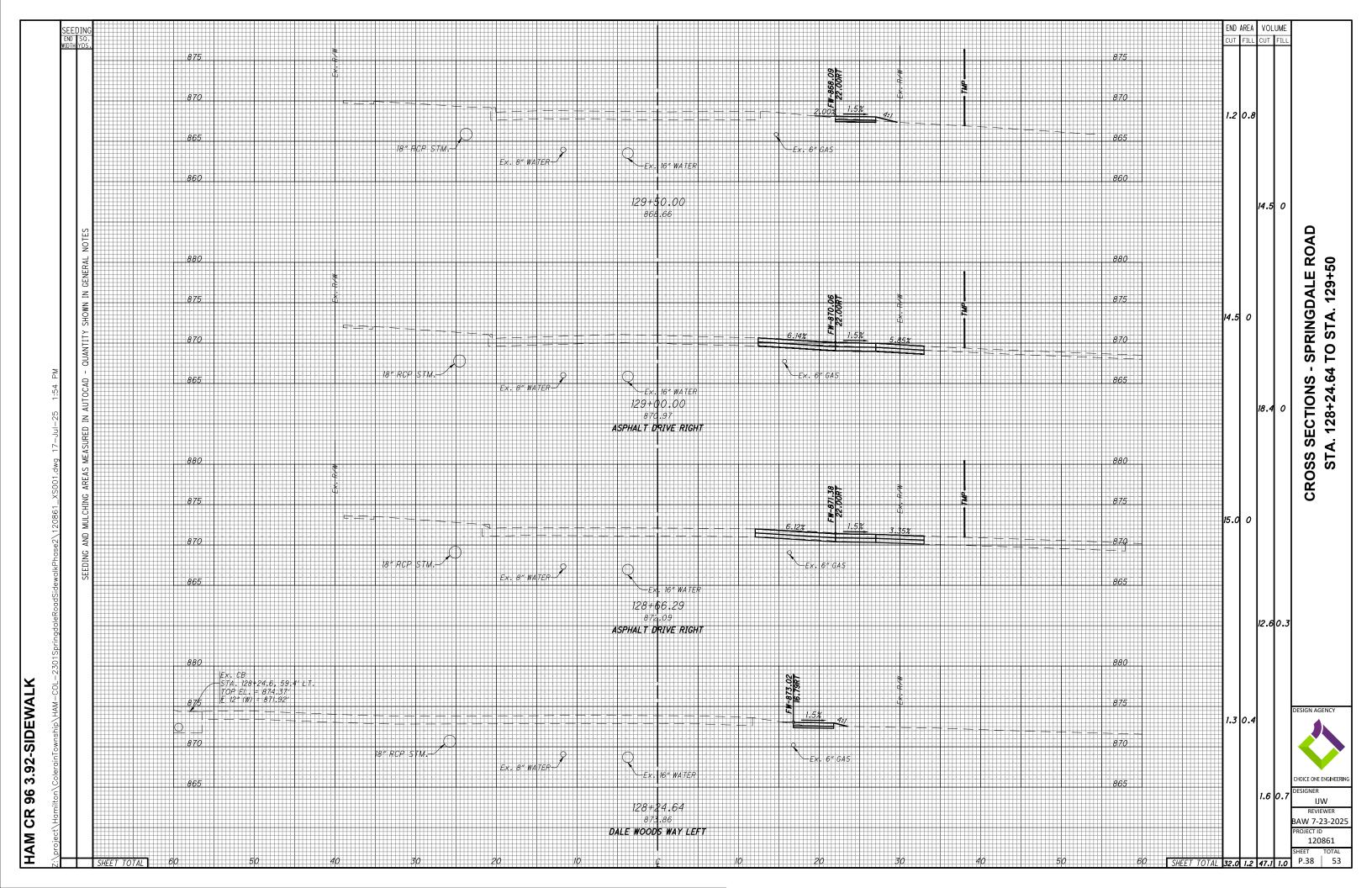


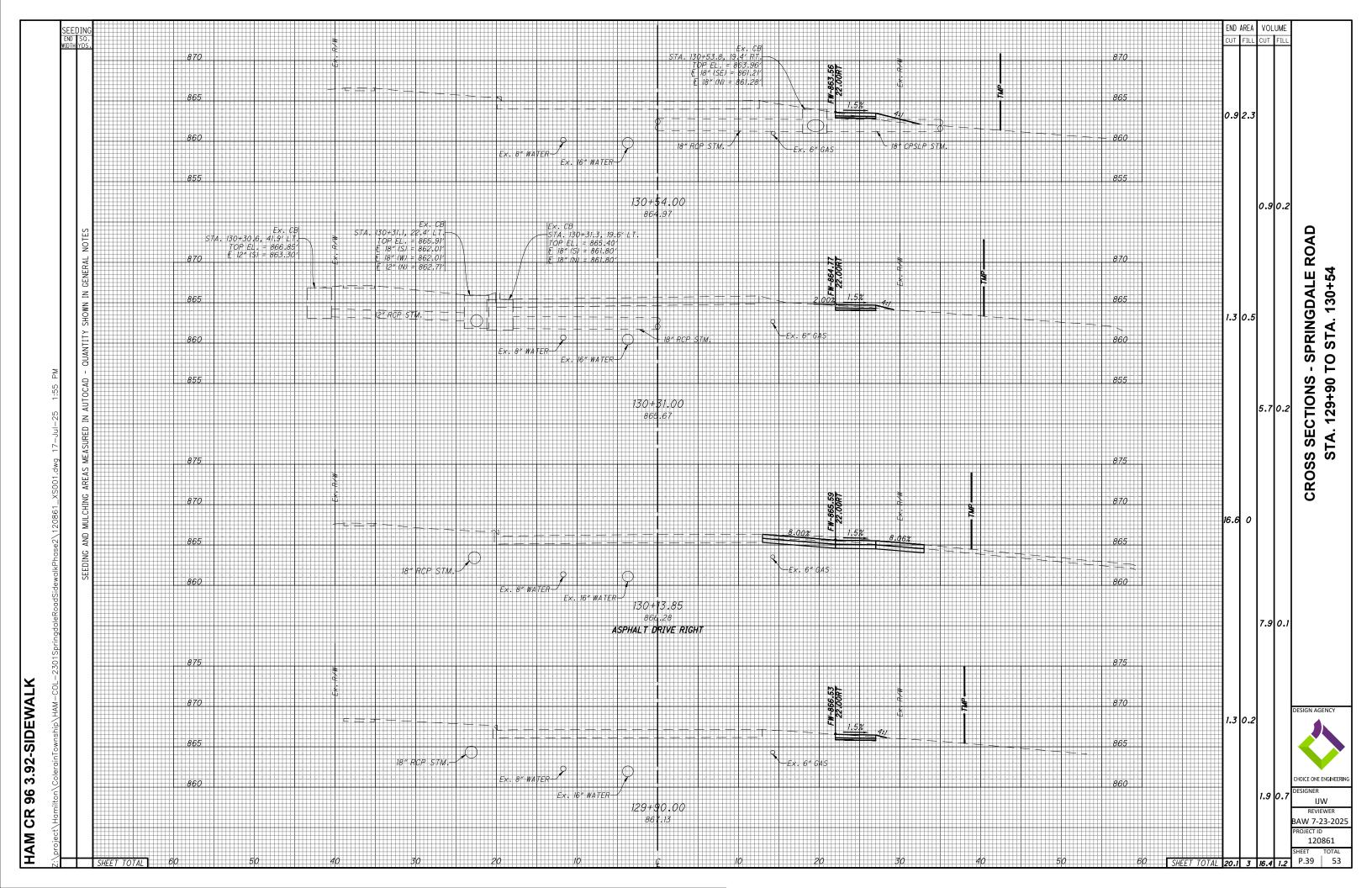


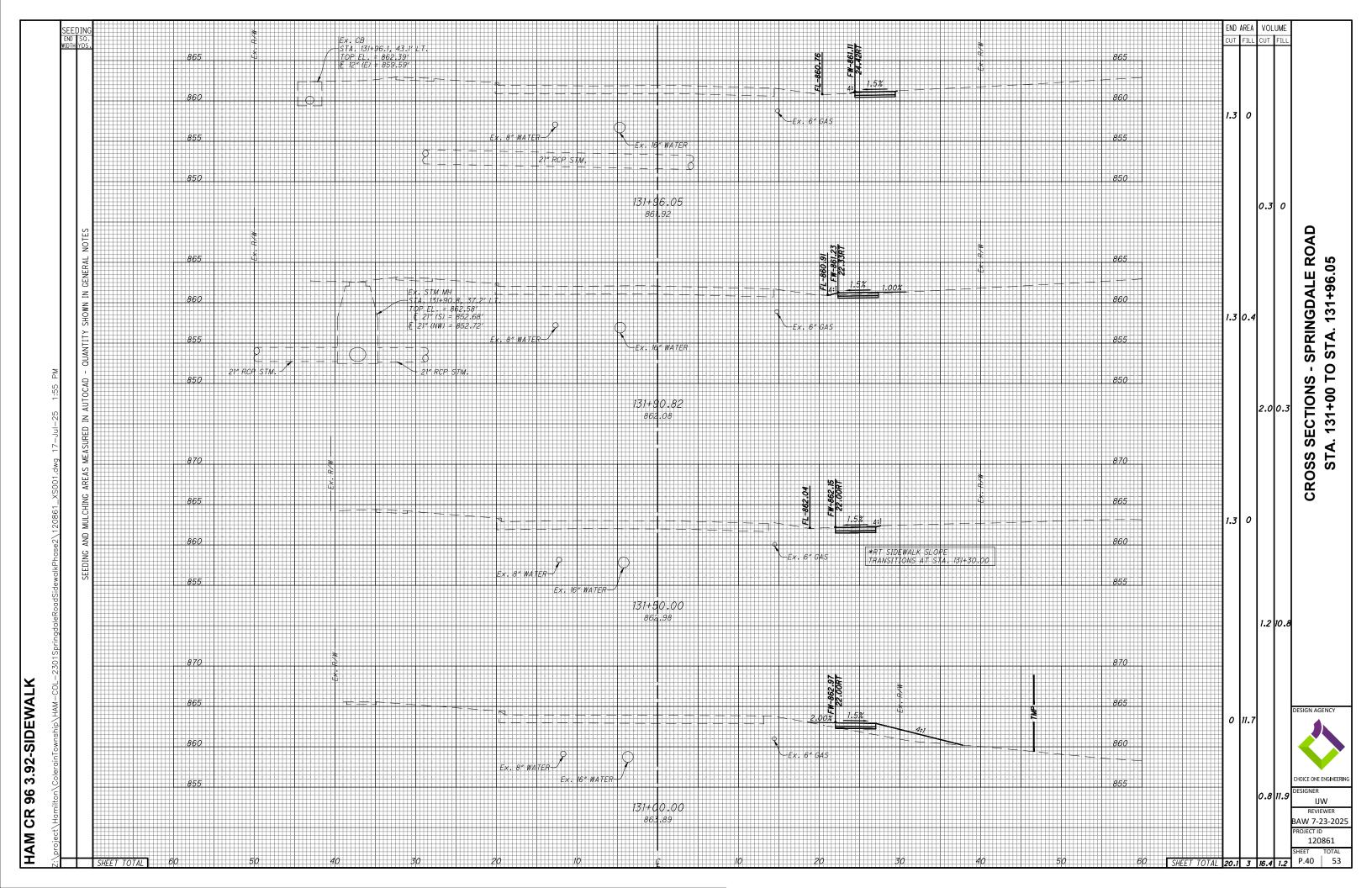


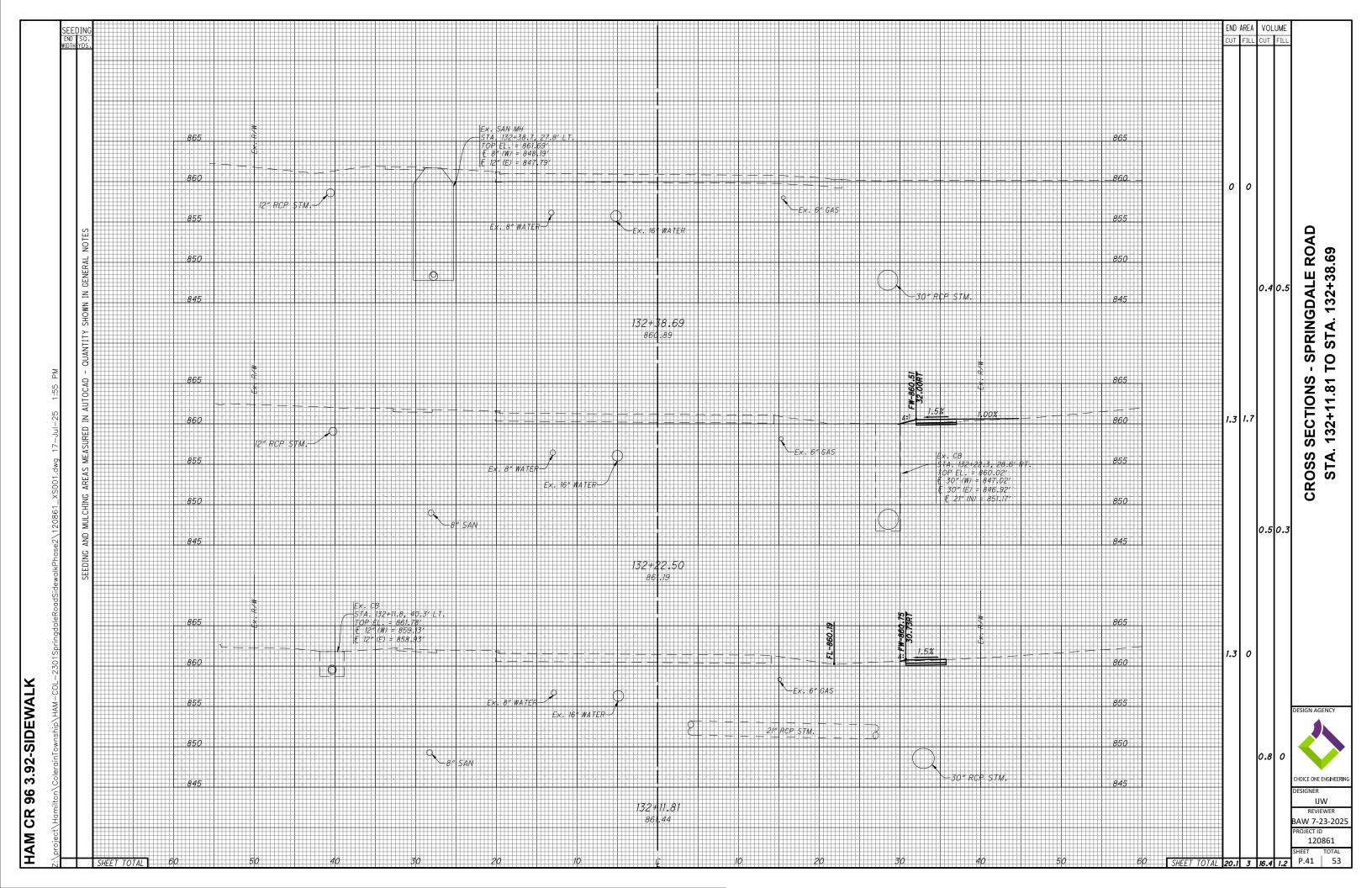


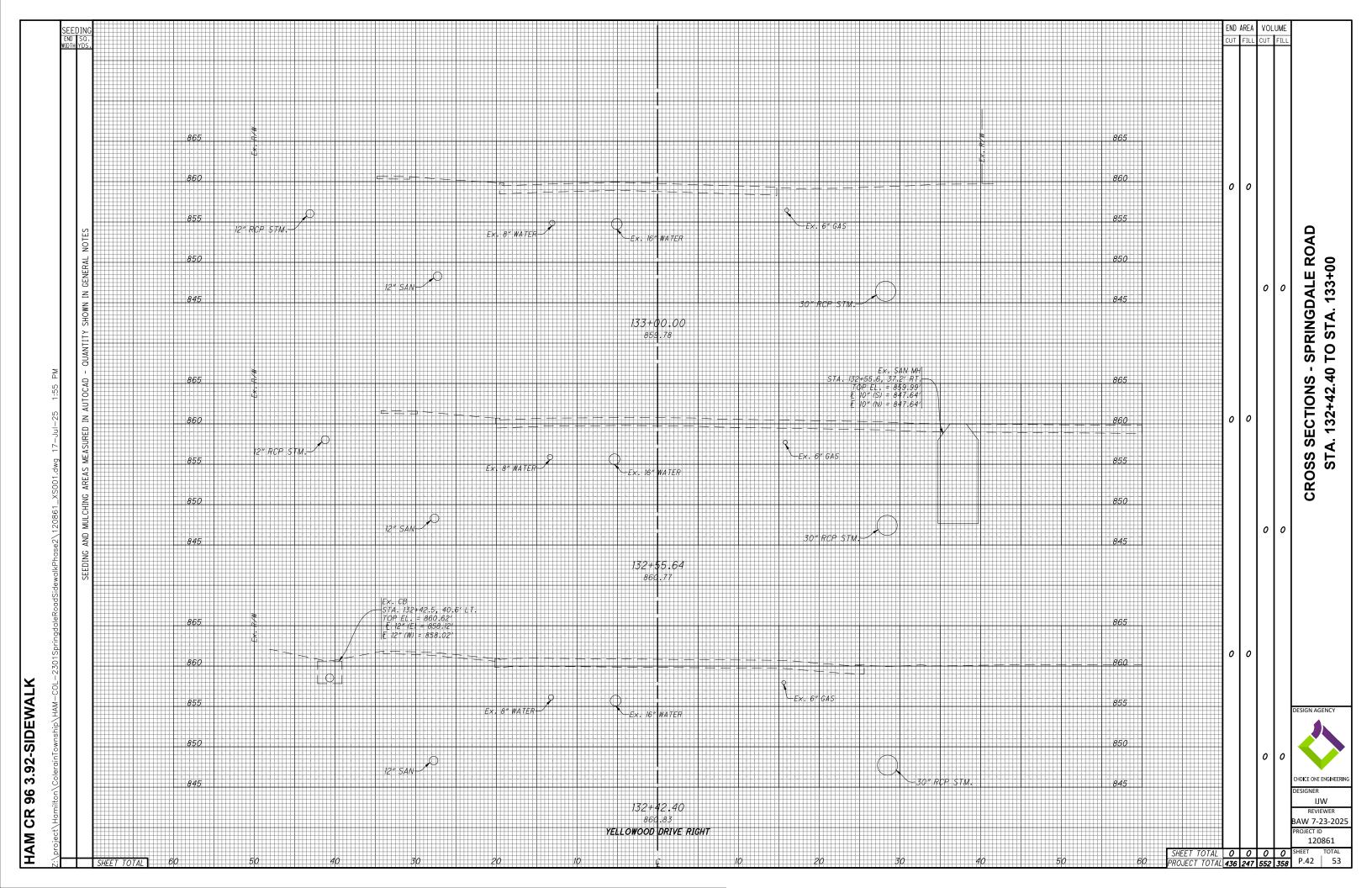


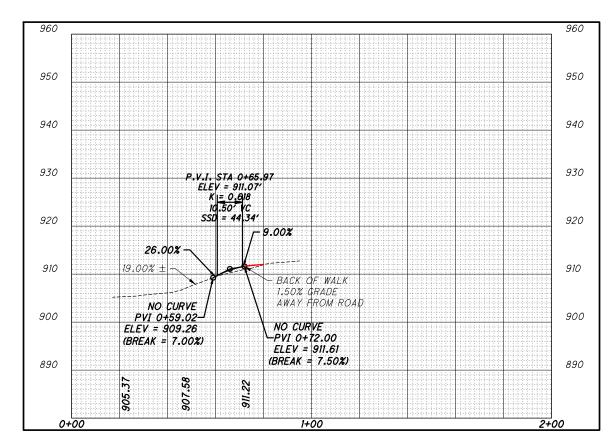




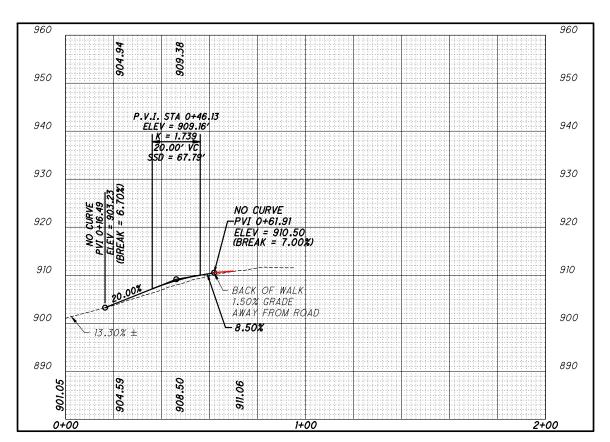




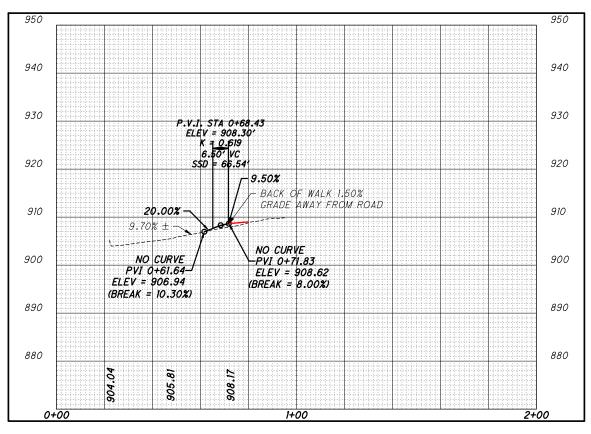




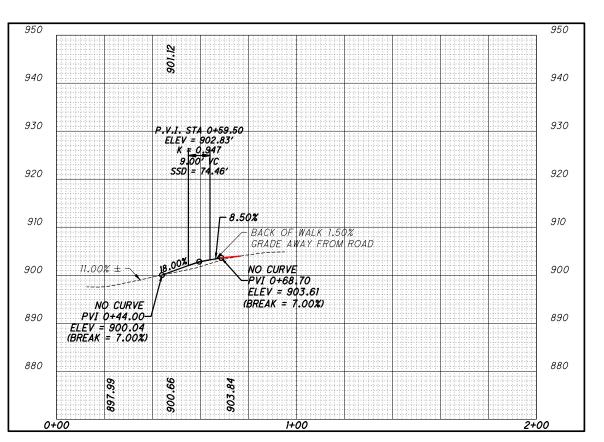
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<u>DRIVE #2</u> STA. 108+52.64**,** LT



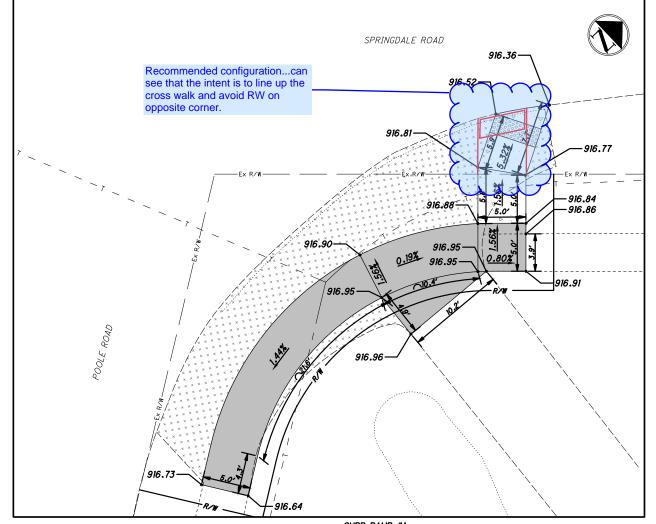
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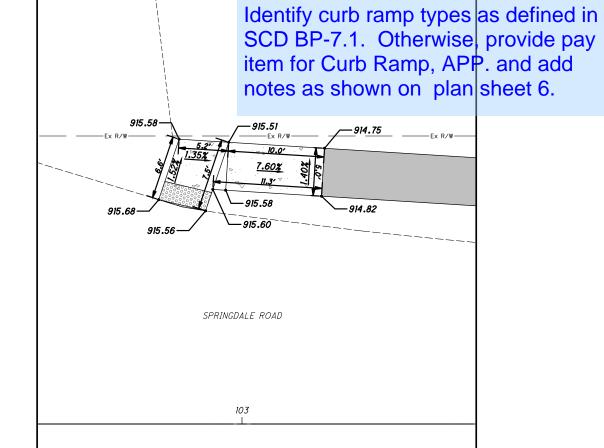
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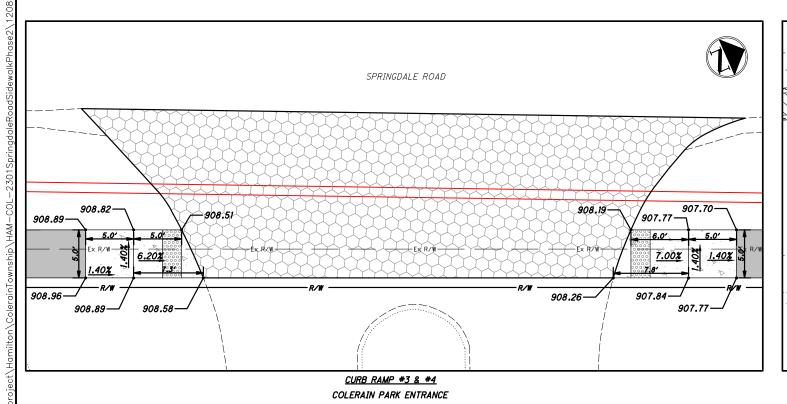
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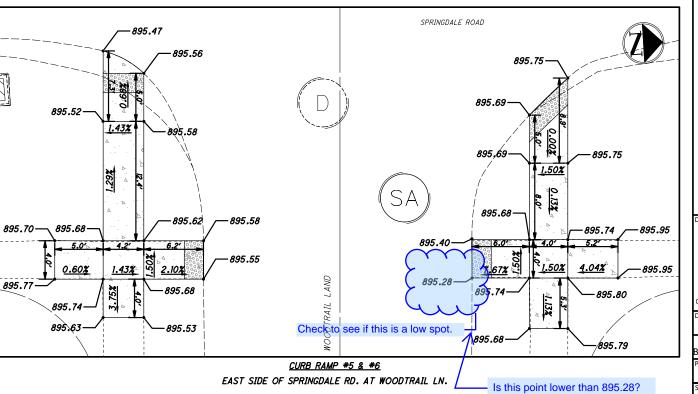
120861 SHEET TOTAL P.43 53



CURB RAMP #1 CURB RAMP #2 NE CORNER OF SPRINGDALE RD. AND POOLE RD. SE CORNER OF SPRINGDALE RD. AND POOLE RD.

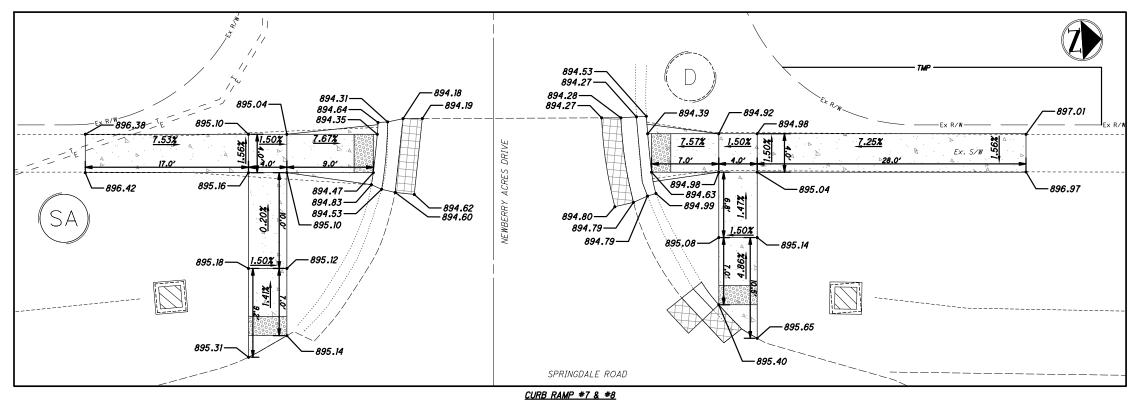




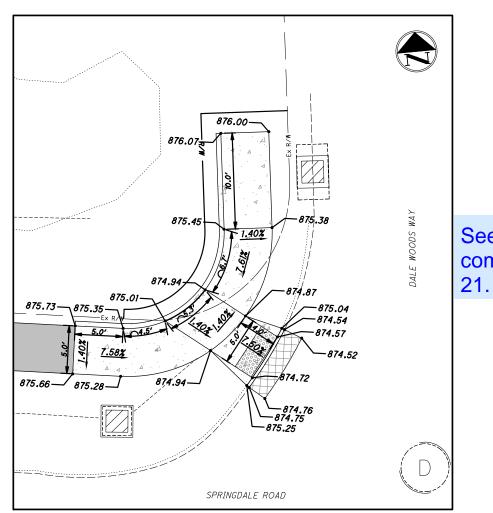




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WEST SIDE OF SPRINGDALE RD. AT NEWBERRY ACRES DR.



CURB RAMP #9 NW CORNER OF SPRINGDALE RD. AND DALE WOODS WAY

See previous comments on sheet 873.99 873.88-873.66— 874.03-

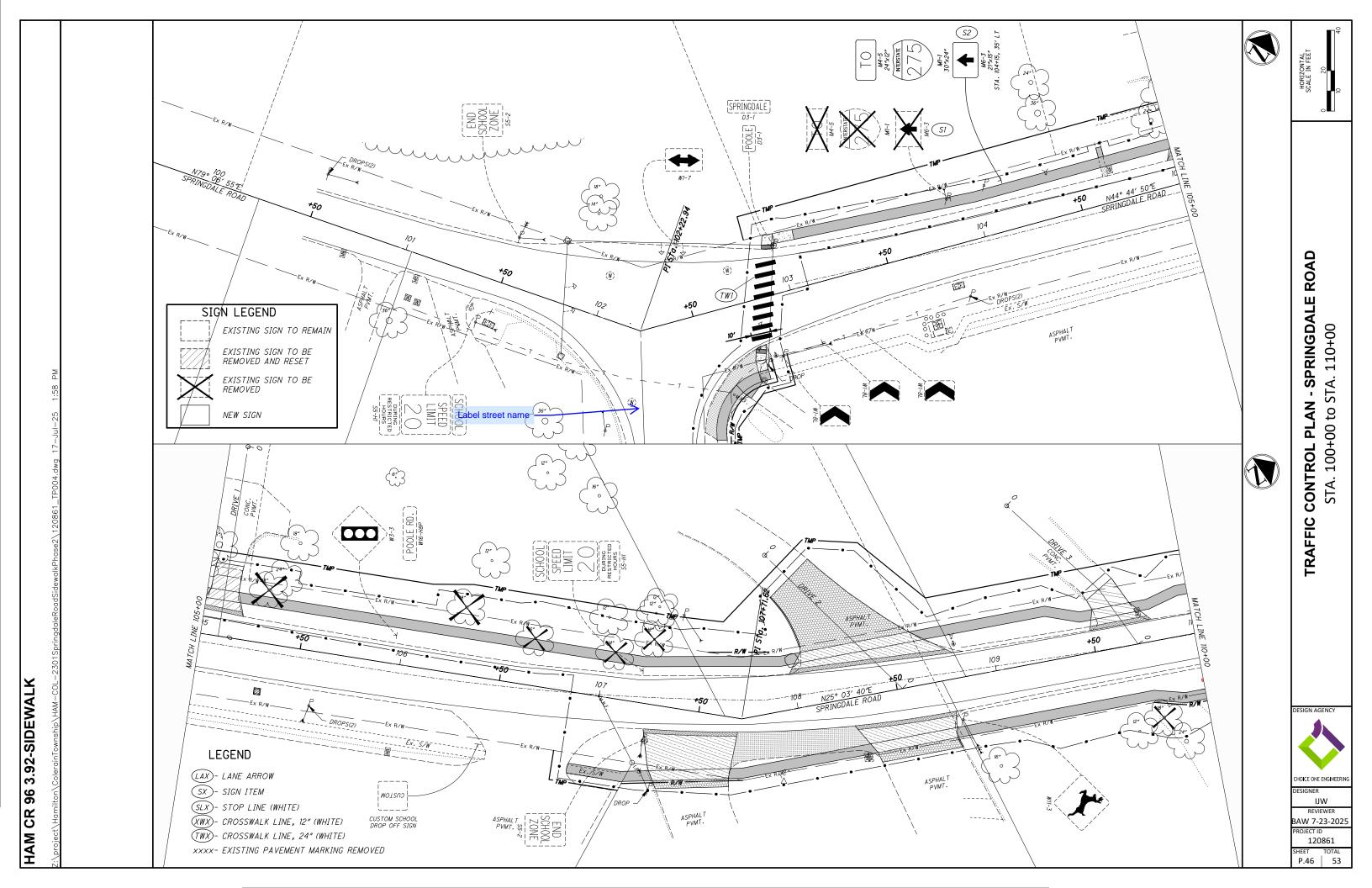
SPRINGDALE ROAD

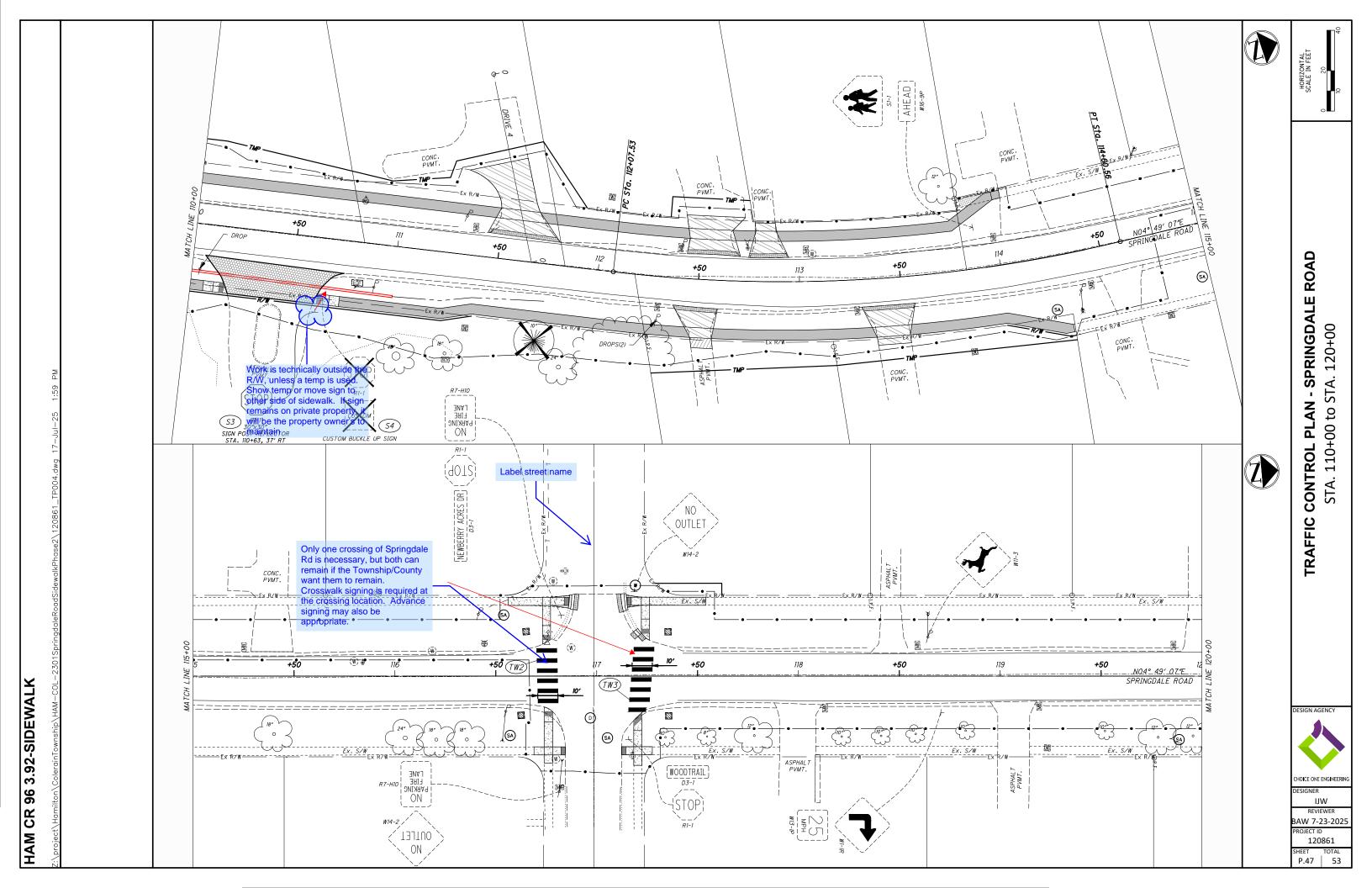
875.88-

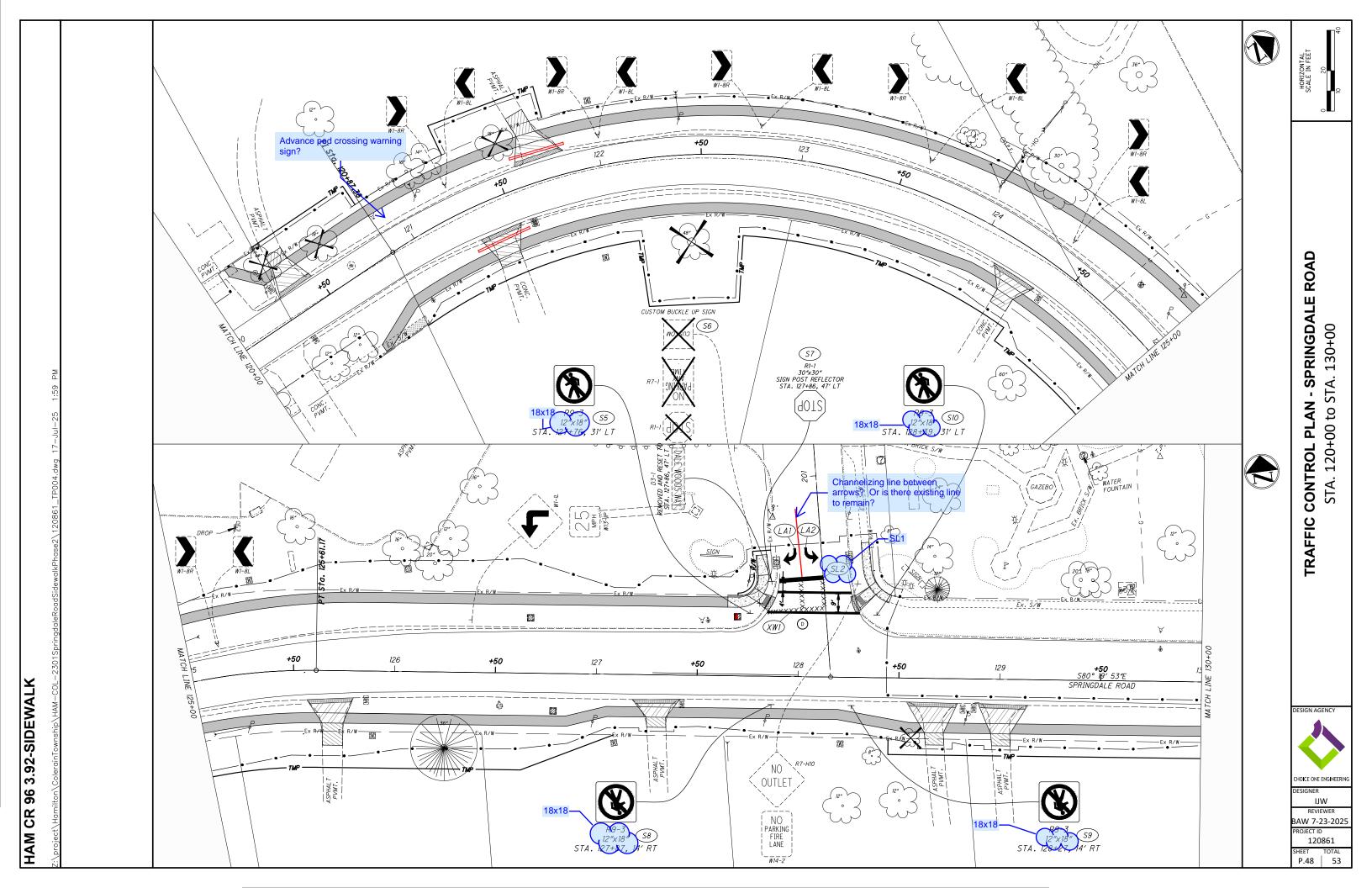
NE CORNER OF SPRINGDALE RD. AND DALE WOODS WAY

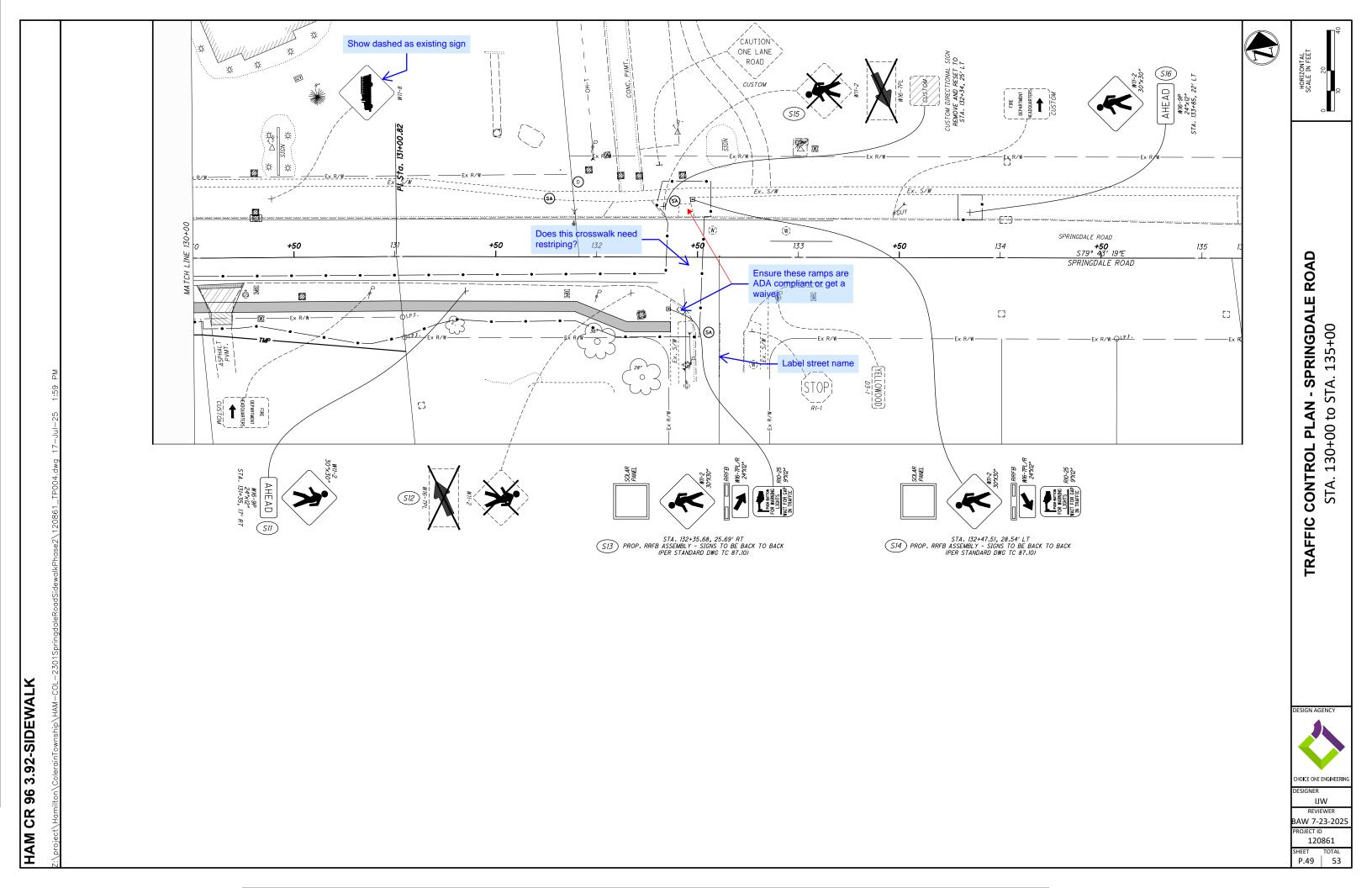
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CURB RAMP #10









ODOT STANDARD CONSTRUCTION DRAWINGS

DRAWINGS IN THESE PLANS SHALL BE CONSIDERED AS REFERENCE TO ITEMS 625, 632, 633, 725, 730, 732 AND 733 RESPECTIVELY.

ALL MATERIALS MUST BE IN COMPLIANCE WITH CONTRACT SPECIFICATIONS UNLESS OTHERWISE APPROVED BY ODOT, TOWNSHIP. AND THE COUNTY. ALL WORK AND MATERIALS NOT SPECIFICALLY REFERENCED IN THE CONTRACT SHALL MEET OR EXCEED THE REQUIREMENTS OF:

OHIO DEPARTMENT OF TRANSPORTATION, CONSTRUCTION AND MATERIAL SPECIFICATIONS (2023)

THE LATEST EDITION OF THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (2012)

WORK INSPECTION

THE CONTRACTOR SHALL PROVIDE ODOT AND HAMILTON COUNTY WITH 72 HOUR NOTICE OF ANY SIGNAL WORK TO BE PERFORMED AT THE INTERSECTION SO THAT INSPECTION SERVICES CAN BE SUPPLIED.

GROUNDING AND BONDING

THE REQUIREMENTS OF THE CONSTRUCTION AND MATERIAL SPECIFICATIONS (CMS) AND THE TC SERIES OF STANDARD CONSTRUCTION DRAWINGS ARE MODIFIED AS FOLLOWS:

- 1. ALL METALLIC PARTS CONTAINING ELECTRICAL CONDUCTORS SHALL BE PERMANENTLY JOINED TO FORM AN EFFECTIVE GROUND FAULT CURRENT PATH BACK TO THE GROUNDED CONDUCTOR IN THE POWER SERVICE DISCONNECT SWITCH.
- A. PROVIDE AN EQUIPMENT GROUNDING CONDUCTOR IN METALLIC CONDUITS (725.04) IN ADDITION TO THE CONDUCTORS SPECIFIED AND BOND THE CONDUIT TO THIS GROUNDING CONDUCTOR.
- B. WHEN AN EQUIPMENT GROUNDING CONDUCTOR IS REQUIRED IN PLASTIC CONDUIT (725.05), THE INSTALLATION SHALL INCLUDE A SEPARATE EQUIPMENT GROUNDING CONDUCTOR IN ADDITION TO THE CONDUCTORS SPECIFIED.
- C. METALLIC CONDUIT CARRYING THE LOOP WIRES FROM IN THE PAVEMENT TO THE PULL BOX SPLICE LOCATION WILL ONLY BE BONDED AT THE PULL BOX END, AND WILL NOT CONTAIN AN EQUIPMENT GROUNDING CONDUCTOR.
- D. IF MULTIPLE CONDUIT RUNS BEGIN AND END AT THE SAME POINTS, ONLY ONE EQUIPMENT GROUNDING CONDUCTOR IS REQUIRED.
- E. IF AN EQUIPMENT GROUNDING CONDUCTOR IS NEEDED IN CONDUIT BETWEEN SIGNALIZED INTERSECTIONS FOR UNDERGROUND INTERCONNECT CABLE, THE GROUNDING SYSTEM FOR EACH SIGNALIZED INTERSECTION WILL BE SEPARATED ABOUT MIDWAY BETWEEN THE INTERSECTIONS.
- F. THE MESSENGER WIRE AT SIGNALIZED INTERSECTIONS WILL BE USED AS THE CONDUCTIVE PATH FROM CORNER TO CORNER IF CONDUIT IS NOT PROVIDED UNDER THE ROADWAY. WHEN CONDUIT CONNECTS THE CORNERS OF AN INTERSECTION, AN EQUIPMENT GROUNDING CONDUCTOR SHALL BE USED IN THE CONDUIT.

2. CONDUITS.

- A. THE 725.04 CONDUIT SHALL HAVE GROUNDING BUSHINGS INSTALLED AT ALL TERMINATION POINTS. THE BUSHING MATERIAL SHALL BE COMPATIBLE WITH GALVANIZED STEEL CONDUIT AND THE GROUNDING LUG MATERIAL SHALL BE COMPATIBLE FOR USE WITH COPPER WIRE. THREADED OR COMPRESSION TYPE BUSHINGS MAY BE USED.
- B. THE 725.05 CONDUIT SHALL HAVE THE INSIDE AND OUTSIDE DIAMETERS OF THE CONDUIT DEBURRED AT ALL TERMINATION
- C. BOTH ENDS OF METALLIC CONDUIT SHALL BE BONDED TO THE EQUIPMENT GROUNDING CONDUCTOR.
- D. METALLIC CONDUIT MAY BE BONDED TO METALLIC BOXES THROUGH THE USE OF CONDUIT FITTINGS UL APPROVED FOR THIS TYPE OF CONNECTION, WITH THE BOX BONDED TO THE EQUIPMENT GROUNDING CONDUCTOR.
- 3. WIRE FOR GROUNDING AND BONDING.
- A. USE INSULATED, COPPER WIRE FOR THE EQUIPMENT GROUNDING CONDUCTOR. BONDING JUMPERS IN BOXES AND ENCLOSURES MAY BE BARE OR INSULATED COPPER WIRE. WIRE SIZE SHALL BE AS
- a. USE 4 AWG BETWEEN THE POWER SERVICE AND SUPPORTS, POLES, PEDESTALS, CONTROLLER OR FLASHER CABINETS.

GROUNDING AND BONDING (CONTINUED)

- b. USE A MINIMUM 8 AWG BETWEEN LOOP DETECTOR PULL BOXES AND THE FIRST CONDUIT THAT REQUIRES A LARGER SIZE AS SPECIFIED IN 3.A.I ABOVE.
- c. USE A MINIMUM 8 AWG BETWEEN THE "PREPARE TO STOP WHEN FLASHING" INSTALLATION (INCLUDING SUPPORT) AND THE FIRST CONDUIT THAT REQUIRES A LARGER SIZE AS SPECIFIED IN 3.A.I
- d. THE INSULATION SHALL BE GREEN OR GREEN WITH YELLOW STRIPE(S). FOR 4 AWG OR LARGER, INSULATION MAY ALSO BE BLACK WITH GREEN TAPE/LABELS INSTALLED AT ALL ACCESS
- e. IN A HIGHWAY LIGHTING SYSTEM, THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE THE SAME WIRE SIZE AS THE DUCT CABLE OR DISTRIBUTION CABLE CIRCUIT CONDUCTORS, WITH THE MINIMUM CONDUCTOR SIZE OF 4 AWG. BONDING JUMPERS WILL BE MINIMUM SIZE 4 AWG.

4. GROUND ROD.

- A. A 3/4 INCH SCHEDULE 40 PVC CONDUIT WILL BE USED IN FOUNDATIONS AND CONCRETE WALLS FOR THE GROUNDING CONDUCTOR (GROUND WIRE) RACEWAY TO THE GROUND ROD. SHOULD METALLIC CONDUIT BE USED, BOTH ENDS OF THE CONDUIT SHALL BE BONDED TO THE GROUNDING CONDUCTOR.
- B. THE TYPICAL GROUNDING CONDUCTOR (GROUND WIRE) SHALL BE 4 AWG INSULATED, COPPER.
- 5. THE GREEN CONDUCTOR IN SIGNAL CABLES (CONDUCTOR #4) SHALL NOT BE USED TO SUPPLY POWER TO A SIGNAL INDICATION. IT WILL BE CONNECTED TO THE SIGNAL BODY AS AN EQUIPMENT GROUND IN ALUMINUM HEADS AND IT WILL BE UNUSED IN PLASTIC HEADS. UNUSED CONDUCTORS SHALL BE GROUNDED IN THE CABINET. TYPICAL USE OF CONDUCTORS IS AS FOLLOWS:

COND. NO.	<u>COLOR</u>	<u>VEHICLE SIGNAL</u>	<u>PED. SIGNAL</u>
1	BLACK	GREEN BALL	#1 WALK
2	WHITE	AC NEUTRAL	AC NEUTRAL
3	RED	RED BALL	#1 DW/FDW
4	GREEN	EQUIP. GROUND	EQUIP. GROUND
5	ORANGE	YELLOW BALL	#2 DW/FDW
6	BLUE	GREEN ARROW	#2 WALK
7	WH/BL STRIPE	YELLOW ARROW	NOT USED

- 6. POWER SERVICE AND DISCONNECT SWITCH.
- A.AT THE POWER SERVICE LOCATION, THE GROUNDING CONDUCTOR (GROUND WIRE) FROM THE DISCONNECT SWITCH NEUTRAL (AC-) BAR TO THE GROUND ROD SHALL BE A CONTINUOUS, UNSPLICED CONDUCTOR. IF SPLICED, IT SHALL BE AN EXOTHERMIC WELD BUTT
- B. THE SERVICE NEUTRAL (AC-) SHALL ONLY BE CONNECTED TO GROUND AT THE PRIMARY POWER SERVICE DISCONNECT SWITCH.
- a. NEMA CONTROLLER CABINETS: IF A POWER SERVICE DISCONNECT SWITCH IS LOCATED BEFORE THE CONTROLLER CABINET, THE NEUTRAL (AC-) AND THE GROUNDING BARS IN THE CONTROLLER CABINET SHALL NOT BE CONNECTED TOGETHER AS SHOWN IN NEMA TS-2, FIGURE 5-4.
- b. IF SECONDARY DISCONNECT SWITCHES ARE CONNECTED AFTER THE PRIMARY DISCONNECT SWITCH, THE NEUTRAL (AC-) SHALL ONLY BE GROUNDED AT THE PRIMARY SWITCH. EQUIPMENT GROUNDING CONDUCTORS SHALL BE BROUGHT TO THE PRIMARY SWITCH, BUT SHALL BE GROUNDED AT BOTH SECONDARY AND PRIMARY SWITCHES.
- 7. PAYMENT ALL MATERIALS AND WORK REQUIRED TO COMPLETE THE EFFECTIVE GROUND FAULT CURRENT PATH SYSTEM ARE INCIDENTAL TO THE CONDUCTORS INSTALLED BY CONTRACT.

MAINTENANCE OF TRAFFIC SIGNAL

THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING TRAFFIC SIGNAL INSTALLATIONS WITHIN THE PROJECT UNDER THE FOLLOWING

- 1. EXISTING SIGNAL INSTALLATIONS WHICH THE PLANS REQUIRE THE CONTRACTOR TO ADJUST, MODIFY, ADD ONTO OR REMOVE, OR WHICH THE CONTRACTOR ACTUALLY ADJUSTS, MODIFIES OR OTHERWISE DISTURBS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ENTIRE INSTALLATION (AT AN INTERSECTION) FROM THE TIME HIS OPERATIONS FIRST DISTURB THE INSTALLATION UNTIL THE INSTALLATION HAS BEEN SUBSEQUENTLY REMOVED OR MODIFIED AND THE WORK IS ACCEPTED.
- 2. NEW OR REUSED SIGNAL INSTALLATIONS OR DEVICES, INSTALLED BY THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE OF THESE FROM THE TIME OF INSTALLATION UNTIL THE WORK IS ACCEPTED.
- 3. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING THE EXISTING TRAFFIC SIGNAL DURING CONSTRUCTION. ANY TEMPORARY ADJUSTMENTS, TEMPORARY POLES, ETC. THAT MAY BE NEEDED SHALL BE INCIDENTAL TO ITEM 614 MAINTAINING TRAFFIC. THE ITEMS DESCRIBED ABOVE AND ALL NECESSARY WORK/MATERIALS ASSOCIATED WITH THE TEMPORARY SIGNAL SUPPORTS REQUIRED TO MAINTAIN A FULLY OPERATIONAL SIGNALIZED INTERSECTION SHALL BE INCIDENTAL TO ITEM 614, MAINTAINING TRAFFIC AND HAS BEEN INCLUDED IN THE LUMP SUM BID PRICE.

THE CONTRACTOR SHALL CORRECT AS QUICKLY AS POSSIBLE ALL OUTAGES OR MALFUNCTIONS. HE SHALL PROVIDE THE MAINTAINING AGENCY AND ODOT SUCH ADDRESSES AND PHONE NUMBERS WHERE HIS MAINTENANCE FORCES CAN BE CONTACTED. THE CONTRACTOR SHALL PROVIDE ONE OR MORE PERSONS TO RECEIVE ALL CALLS AND DISPATCH THE NECESSARY MAINTENANCE FORCES TO CORRECT OUTAGES. SUCH A PERSON OR PERSONS MAY BE USED TO PERFORM OTHER DUTIES AS LONG AS PROMPT ATTENTION IS GIVEN TO THESE CALLS AND A PERSON IS
READILY AVAILABLE CONTINUOUSLY 24 HOURS A DAY, 7 DAYS A WEEK. ALL LAMP OUTAGES, CABLE OUTAGES, ELECTRICAL FAILURES, EQUIPMENT MALFUNCTIONS AND MISALIGNED SIGNAL HEADS SHALL BE CORRECTED TO THE SATISFACTION OF THE TOWNSHIP AND ODOT WITH THE SIGNAL BACK TO SERVICE WITHIN TWO HOURS AFTER THE CONTRACTOR HAS BEEN NOTIFIED OF THE OUTAGE.

IN THE EVENT NEW SIGNALS ARE DAMAGED PRIOR TO ACCEPTANCE, ALL DAMAGED EQUIPMENT EXCEPT POLES AND CONTROL EQUIPMENT SHALL BE REPLACED BY THE CONTRACTOR TO THE SATISFACTION OF THE COUNTY AND ODOT WITH THE SIGNAL BACK IN SERVICE WITHIN 8 HOURS AFTER THE CONTRACTOR'S NOTIFICATION OF THE OUTAGE. THE CONTRACTOR SHALL ARRANGE FOR FULL TRAFFIC CONTROL UNTIL THE SIGNAL IS BACK

NONE OF THE ABOVE SHALL BE CONSTRUED AS COLLECTIVE OR CONSECUTIVE OUTAGE TIME PERIODS AT ANY ONE LOCATION. THAT IS, WHERE MORE THAN ONE OUTAGE OCCURS AT ANY ONE LOCATION THEN THE ALLOTTED TIME LIMIT SHALL BE FOR THE WORST SINGLE OUTAGE.

WHERE OUTAGES ARE THE DIRECT RESULT OF A VEHICLE ACCIDENT THE RESPONSE OF THE CONTRACTOR SHALL BE AS OUTLINED ABOVE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COLLECTION OF ANY COMPENSATION FOR THIS WORK FROM THOSE PARTIES RESPONSIBLE FOR THE DAMAGE

WHERE THE CONTRACTOR HAS FAILED TO, OR CANNOT RESPOND TO, AN OUTAGE OR SIGNAL EQUIPMENT MALFUNCTION, AT THESE LOCATIONS WITHIN HIS RESPONSIBILITY, WITHIN PERIODS AS SPECIFIED ABOVE. THE COUNTY AND ODOT MAY INVOKE THE PROVISIONS OF SECTION 105.15 AND ANY SUBSEQUENT BILLINGS TO ODOT, OR THE COUNTY POLICE SERVICES AND MAINTENANCE SERVICES BY ODO'T FORCES SHALL BE DEDUCTED FROM MONIES DUE OR TO BECOME DUE THE CONTRACTOR IN ACCORDANCE WITH PROVISIONS OF SECTION 105.15.

THE CONTRACTOR SHALL PROVIDE THE MAINTENANCE SERVICE ENTIRELY WITH HIS FORCES OR HE MAY CHOOSE TO ENTER INTO A COOPERATIVE UNDERSTANDING WITH THE LOCAL MAINTAINING AGENCY TO PROVIDE THE MAINTENANCE. THE CONTRACTOR SHALL INFORM THE COUNTY. IN WRITING. OF THE MAINTENANCE METHOD SELECTED.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO ANY TRAFFIC SIGNAL COMPONENTS REQUIRED TO BE HANDLED DURING THE RELOCATION OF POLES AND REVISIONS TO THE SIGNAL SYSTEM. WHEN A TRAFFIC SIGNAL MUST BE TAKEN OUT OF SERVICE BY THE CONTRACTOR, DUE TO CONSTRUCTION PROCEDURES, THIS OUTAGE SHALL NOT EXCEED 4 HOURS AND SHALL NOT INCLUDE THE HOURS OF 7 TO 9 AM AND 4 TO 6 PM, ANY SIGNALIZED INTERSECTION, WHERE THE SIGNAL IS OUT OF SERVICE DUE TO CONSTRUCTION PROCEDURES, OR DUE TO AN OUTAGE OR MALFUNCTION OF EQUIPMENT AS DESCRIBED ABOVE, SHALL BE PROTECTED, BY THE CONTRACTOR, BY THE INSTALLATION OF TEMPORARY "STOP" SIGNS.

MAINTENANCE OF TRAFFIC SIGNAL

THE CONTRACTOR SHALL MAINTAIN COMPLETE RECORDS OF MALFUNCTIONS INCLUDING:

- 1. TIME OF NOTIFICATION OF MALFUNCTION:
- 2. TIME OF WORK CREWS ARRIVAL TO CORRECT THE MALFUNCTION;
- 3. ACTIONS TAKEN TO CORRECT THE MALFUNCTION, INCLUDING A LIST OF PARTS REPAIRED OR REPLACED:
- 4. A DIAGNOSIS OF REASON FOR THE MALFUNCTION AND PROBABILITY OF
- 5. TIME OF COMPLETION OF THE REPAIR AND SYSTEM RESTORED TO FULL SERVICE.

A COPY OF THESE RECORDS SHALL BE PROVIDED TO THE COUNTY WITHIN THREE (3) WORKING DAYS FOLLOWING COMPLETION OF EACH REPAIR.

ALL COSTS RESULTING FROM THE ABOVE REQUIREMENTS SHALL BE CONSIDERED TO BE INCLUDED IN THE LUMP SUM PRICE BID FOR ITEM 614, MAINTAINING TRAFFIC.

ITEM 632 ACCESSIBLE PEDESTRIAN PUSHBUTTON, AS PER PLAN (GENERIC) (ALTERNATE#1)

IN ADDITION TO THE REQUIREMENTS OF ODOT SPECIFICATIONS 632, 732, SCD TC-83.10, OMUTCD, AND PROWAG, THE FOLLOWING REQUIREMENTS

- 1. THE PUSHBUTTON ASSEMBLY SHALL BE YELLOW.
- 2. THE PUSHBUTTON SHALL SOUND A PERCUSSIVE TONE/SPEECH MESSAGE WHEN ACTUATED. SOME EXAMPLES OF THE SPEECH MESSAGES ARE LISTED BELOW. THE CONTRACTOR SHALL HAVE ODOT, TOWNSHIP, AND COUNTY APPROVE THE MESSAGES AND DECIBELS (DB) LEVELS OF EACH BUTTON.
 - "WAIT, TO CROSS SPRINGDALE AT POOLE."
 - "SPRINGDALE. WALK SIGN IS ON TO CROSS SPRINGDALE."
- 3. THE CONTRACTOR SHALL PROVIDE ANY MISCELLANEOUS WIRE/ELECTRICAL EQUIPEMENT, CONNECTIONS, MATERIAL, CONDUIT RISERS. WEATHERHEAD. ETC. TO MAKE A FULLY OPERATIONAL ACCESSIBLE PEDESTRIAN PUSHBUTTON THAT IS COMPATIBLE WITH THE EXISTING CABINET. THIS WORK SHALL BE INCIDENTAL TO ITEM 632 ACCESSIBLE PEDESTRIAN PUSHBUTTON.

PAYMENT FOR ITEM 632 ACCESSIBLE PEDESTRIAN PUSHBUTTON, AS PER PLAN (GENERIC) (ALTERNATE#1), FOR ALL OPERATIONS DESCRIBED ABOVE SHALL BE AT THE CONTRACT BID PRICE PER EACH AND SHALL INCLUDE ALL LABOR, MATERIAL AND EQUIPMENT REQUIRED TO COMPLETE THIS ITEM OF WORK.



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ITEM 632 ACCESSIBLE PEDESTRIAN PUSHBUTTON, AS PER PLAN (POLARA) (ALTERNATE#2)

IN ADDITION TO THE REQUIREMENTS OF ODOT SPECIFICATIONS 632, 732, SCD TC-83.10, OMUTCD, AND PROWAG, THE FOLLOWING REQUIREMENTS

- 1. THE PUSHBUTTON ASSEMBLY SHALL BE YELLOW AND MANUFACTURED BY
- 2. THE PUSHBUTTON SHALL SOUND A PERCUSSIVE TONE/SPEECH MESSAGE WHEN ACTUATED. SOME EXAMPLES OF THE SPEECH MESSAGES ARE LISTED BELOW. THE CONTRACTOR SHALL HAVE ODOT, TOWNSHIP, AND COUNTY APPROVE THE MESSAGES AND DECIBELS (DB) LEVELS OF EACH
- "WAIT, TO CROSS SPRINGDALE AT POOLE."
- "SPRINGDALE. WALK SIGN IS ON TO CROSS SPRINGDALE."
- 3. THE CONTRACTOR SHALL PROVIDE ANY MISCELLANEOUS WIRE/ELECTRICAL EQUIPEMENT, CONNECTIONS, MATERIAL, CONDUIT RISERS, WEATHERHEAD, ETC. TO MAKE A FULLY OPERATIONAL ACCESSIBLE PEDESTRIAN PUSHBUTTON THAT IS COMPATIBLE WITH THE EXISTING CABINET. THIS WORK SHALL BE INCIDENTAL TO ITEM 632 ACCESSIBLE PEDESTRIAN PUSHBUTTON.

PAYMENT FOR ITEM 632 ACCESSIBLE PEDESTRIAN PUSHBUTTON, AS PER PLAN (POLARA) (ALTERNATE#2), FOR ALL OPERATIONS DESCRIBED ABOVE SHALL BE AT THE CONTRACT BID PRICE PER EACH AND SHALL INCLUDE ALL LABOR, MATERIAL AND EQUIPMENT REQUIRED TO COMPLETE THIS

ITEM 633 CONTROLLER ITEM, MISC.: REPROGRAM CONTROLLER CABINET

IN ADDITION TO THE REQUIREMENTS OF ODOT CMS 633 AND 733, THE CONTROLLER CABINET SHALL BE REWIRED AND REPROGRAMMED TO ACCOMMODATE THE NEW SIGNAL UPGRADES.

THE CONTRACTOR IS RESPONSIBLE FOR REPROGRAMMING, ETC. TO GET THE SIGNAL RUNNING.

Reprogramming per these plans

PAYMENT FOR ITEM 633 CONTROLLER ITEM, MISC.: REPROGRAM CONTROLLER CABINET, FOR ALL OPERATIONS DESCRIBED ABOVE SHALL BE AT THE CONTRACT BID PRICE PER EACH AND SHALL INCLUDE ALL LABOR, MATERIAL AND EQUIPMENT REQUIRED TO COMPLETE THIS ITEM



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PEDESTRIAN SIGNAL HEADS



EXISTING

PEDESTRIAN HEADS (LED, COUNTDOWN, TYPE D2)

Ex. PH8A, Ex. PH8B

PEDESTRIAN SIGNS



1 - RIGHT ARROWS

PLAN DETAILS FOR EXISTING POLES

HANDHOLE-

FROM WHICH POLE IS STATIONED

POLE FABRICATION -

ANGLES

1									
				ANGLES (DEG.) FROM INDEX LINE					
	EX. STRAIN POLE NO.	EX. WOOD POLE NO.	INDEX LINE ANGLE (DEG.)	PEDESTRIAN PUSHBUTTONS	PEDESTRIAN SIGNALS	CONTROLLER CABINET			
	Ex. SP-1	-	0	-	-	-	-		
	EX. SP-2	-	0	-	-	-	-		
	-	EX. SP-3	0	110	EXISTING	-	-		
	-	EX. SP-4	0	290	EXISTING	EXISTING	-		

PEDESTRIAN/STRAIN POLE ORIENTATION DETAIL

INCREASING STATIONS

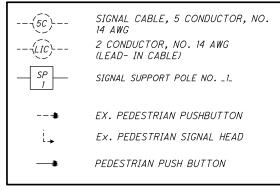
INDEX

LINE

*Ex. PH8B↑ *Ex. PH8A ♦

*CONTRACTOR SHALL UTILIZE THE EXISTING WIRING AND PROVIDE ALL MISCELLANEOUS WIRING/EQUIPMENT TO COMPLETE A FULLY OPERATIONAL AUDIBLE PEDESTRIAN SIGNAL.

LEGEND (WIRING DIAGRAM)



TRAFFIC SIGNAL, 3 UNIT HEAD, 12" SIGNAL SUPPORT POLE PEDESTRIAN SIGNAL PEDESTRIAN PUSHBUTTON CONTROLLER CABINET (DND) DO NOT DISTURB

Ex. STRAIN POLE (Ex. SP-1) (DND)

Ex. STRAIN POLE (Ex. SP-2) (DND)

3.92-SIDEWALK

96

CR.

HAM

LEGEND (PLAN SHEET) EXISTING PROP

EX. P8B (TBR)

Ex. WOOD POLE (DND) (Ex. SP-3) Ex. PH8A (DND)

mb

TO BE REMOVED

Ex. P8A (TBR)

(TBR)

Ex. WOOD POLE (DND) (Ex. SP-4)
Ex. CONTROLLER CABINET (DND)
EX. PH8B (DND)

SPRINGDALE ROAD

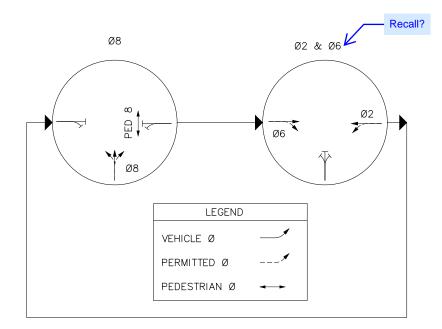
WIRING DIAGRAM

SIGNAL TIMING CHART

		<u>SIGNAL</u>	I TIMITIN	<u> G CHA</u>	<u>K I</u>					
	IN7	ERSECTION:	SPRINGL	ALE ROAL	D AND PC	OOLE ROA	D			
	<i>MAINTAINI</i>	NG AGENCY:	HAMILTO	ON COUNT	Υ					
START UP			DUAL ENTRY: ON PHAS			PHAS	ES: 2 +			4 + 8
STAN	1 01		REST	IN RED:	RII	NG 1:		RING	2:	-
START IN:	•	FLASH	OVERLAF	,			lacksquare	В	C	D
TIME FOR FLASH, ALL RE) SEC	0.12/12/11	OVENEAR A B C E						
FIRST PHASE(S):		2 & 6								
COLOR DISPLAYED:	O	GREEN	PHASES				-	-	-	-
INTERVAL OR FEATURE			CONTROLLER MOVEMENT BRIDGE STREET NO.							
INTERSECTION MOVEMENT	T (PHASE)		1	2	3	4	5	6	7	8
DIRECTION			-	Wb	-	-	-	Eb	-	Nb
MINIMUM GREEN (INITIAL)		(SEC.)	-	15	-	-	-	15	-	7
ADDED INITIAL	(SEC./	4CTUATION)	-	-	-	-	-	-	-	-
MAXIMUM INITIAL		(SEC.)	-	-	-	-	-	-	-	-
PASSAGE TIME (PRESET (GAP)	(SEC.)	-	1.0	-	-	-	1.0	-	1.0
TIME BEFORE REDUCTION	/	(SEC.)	-	-	-	-	-	-	-	-
MINIMUM GAP		(SEC.)	-	-	-	-	-	-	-	-
TIME TO REDUCE		(SEC.)	-	-	-	-	-	-	-	-
MAXIMUM GREEN I		(SEC.)	-	40	-	-	-	40	-	35
MAXIMUM GREEN II		(SEC.)	-	-	-	-	-	-	-	-
YELLOW CHANGE		(SEC.)	-	4.5	-	-	-	4.5	-	4.0
ALL RED CLEARANCE		(SEC.)	-	1.5	-	-	-	1.5	-	1.0
DELAYED GREEN (LPI)		(SEC.)	-	-	-	-	-	-	-	-
*FLASHING YELLOW ARRO	OW DELAY	(SEC.)	-	-	-	-	-	-	-	-
WALK		(SEC.)	-	-	-	-	-	-	-	7
PEDESTRIAN CLEARANCE		(SEC.)	-	-	-	-	-	-	-	11
Λ	MAXIMUM	(ON/OFF)	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
RECALL 1	<i>INIMUM</i>	(ON/OFF)	OFF	ON	OFF	OFF	OFF	ON	OFF	OFF
F	PEDESTRIAN	(ON/OFF)	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
MEMORY	MEMORY (ON/OFF)			OFF	OFF	OFF	OFF	OFF	OFF	OFF

NOTE: COUNTDOWN PEDESTRIAN SIGNALS SHALL GO TO ZERO ON YELLOW PER OMUTCD FIGURE 4E-2.

-EXISTING VEHICULAR SIGNAL TIMINGS WERE NOT MODIFIED IN THESE PLANS AND SHALL REMAIN AS THEY ARE IN THE CONTROLLER. THE CONTRACTOR SHALL ADD THE PEDESTRIAN PHASES WITH THE APPROPRIATING SIGNAL TIMING INTO THE CONTROLLER AS DETAILED IN THE TABLE ABOVE.



FIELD WIRING HOOK-UP CHART

SIGNAL HEAD	INDICATION	FIELD TERMINAL	FLASH	SIGNAL HEAD	INDICA TION	FIELD TERMINAL	FLASH
						MOVEMENTS	
			. (PED A		PED/LS 12 G	OFF
				بب	<i>DW</i> Ø8 F	PED/LS 12 R	
				DE	D.8		
	LS = LOAD S	<i>WITCH</i>			1		



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Water main items are to be constructed in accordance with the provisions of the State of Ohio, Department of Transportation, Construction and Material Specifications, dated January 1, 2023, and modified by the City of Cincinnati Supplement to said State of Ohio Specifications, effective January 1, 2023, and any supplements or changes thereto. Copies of the State specifications are on file at the Office of Contract Sales of the State of Ohio, Department of Transportation, 25 South Front Street, Columbus, Ohio, and at the offices of the City Engineer of Cincinnati, Ohio. Submittal of a bid for this project implies that the Contractor has taken all provisions of the Supplement into account.

The Greater Cincinnati Water Works (GCWW) understands that differing site conditions results in extra work/change orders to the project. Change orders on GCWW contracts will be done in strict accordance with Item 109.05 C of the State of Ohio Department of Transportation Construction and Material Specifications dated January 1, 2023 or most recent edition and as modified in this City of Cincinnati Supplement. GCWW limits the mark up on wages and fringe benefits as described in 109.05 C. 2. "Labor" to 30%. It is expressly understood that regardless of the nature of the claim, or change in scope of work, the Contractor is not entitled to compensation for loss of anticipated profit or production.

As defined in the City of Cincinnati Supplement, sections 107.07 and 107.071, the Contractor is required to submit, at the time of the pre-construction meeting, a Site Safety Plan. Furthermore, the Contractor shall have an authorized and competent safety representative assigned to the project site.

The Contractor is advised that he has certain responsibilities under Section 153.64 of The Ohio Revised Code. For all underground utilities, contact the Ohio Utilities Protection Service at 1-800-362-2764 (toll free) 48 hours in advance of work. The Contractor is advised that all utility information has been shown on the contract plans from information provided by the owner of each utility in compliance with Sec. 153.64 of the Ohio Revised Code. In cases where utility information is incorrect and it results in a change in the contract plans the Contractor shall first notify the owner of the utility to determine the necessary course of action. The Contractor shall submit any subsequent claims as a result of downtime or additional work to the owner of the conflicting utility. The GCWW will not accept claims for any utility other than those as a result of incorrect water main and related appurtenance information.

The Contractor must locate or "pot hole" all utilities within the alignment of the proposed main a minimum of 50 feet ahead of pipe laying. Test holes must be dug, or trench excavated, a minimum of 50 feet (15.2 m) in advance of pipe laving, to assure proper clearance between the water main and any utility crossing, or underground structure. All utilities and structures shall be suitably braced and supported. The Contractor shall understand that any obstructions encountered in the installation of the main, due to the failure of having 50 feet (15.2m) of trench excavated ahead of laying operations, may require removal and relaying of the pipe at the contractors expense. The GCWW will not accept a claim for different utility conditions encountered when test holes are not performed as required.

Item 1120, "Exploratory Excavation", shall not include excavations within the limits of the proposed trench as defined in 1101.04 and 1101.05. Test holes are required on all utilities within 50 feet of the last laid pipe. Test holes within the alignment of the proposed trench are included in the Contractor's unit bid for Item 1101. Locations to be explored will vary from areas within the roadway to areas outside of the roadway.

It is the nature of construction that unmarked utilities or utilities not shown on the plans may be encountered within the excavation for the proposed work, the contractor is responsible to identify and remove any abandoned utilities encountered in the excavation, unless otherwise noted on the plans, no extra payment will be made for up to 10" diameter, width or depth utilities, to the contractor for the identification and removal of the abandon utility. All costs shall be included in the contractor's unit price bid for the appropriate item 1101, "Laying ductile iron pipe and fittings".

Street pavement or sidewalk should not be disturbed for a distance of more than 200 Feet (61.0 m) ahead of the last laid pipe. Backfill shall be completed within 50 feet (15.2 m) of the last laid pipe. Temporary or permanent surface restoration must be installed within a distance of 200 feet (61.0 m) of the laid pipe. including those areas where main installations occur within a closed lane or closed street condition. Roadway plates may be used as a temporary measure for a period not to exceed 24 hours without the approval of the GCWW.

Any undermined pavement of more than 6 inches horizontal must be removed prior to starting trench backfill. If undermining of pavement occurs more than 1 foot, then pavement must be shored to protect traffic, or arrangements made for additional lane closures must be made. If problems continue to occur regarding trenching integrity, sheeting and bracing can be required by the City Engineer or the City Engineer's representative, at the contractor's expense. If any tunneling is necessary, adequate information shown in both plan and profile and tunneling procedures must be submitted to the City Engineer's Office prior to commencement of work.

The GCWW has made every effort to depict the pipe sewers and lateral information on the plans. The Contractor is advised that sewer laterals are shown in plan view only. The Contractor shall determine the elevation of the sewer laterals in advance of laying the water main at these crossings. If the sewer laterals require changing in order to avoid conflict with the water main, or if the Contractor encounters a pipe sewer or lateral in the excavation that was not shown on the plans and requires a change of grade or alignment due to the installation of the water main, the Contractor shall furnish all necessary labor, material, tools, and equipment required to change the grade or alignment of pipe sewers and laterals of various sizes, allowing installation of water mains and appurtenances as shown on the plans, or as directed by the GCWW Inspector. This work shall include all necessary excavation, backfill, and restoration. The Contractor will be compensated under Item 1123, "Changing Pipe Sewers 8 Inch and Under". When crossing sanitary and combination sewers, a vertical clearance of 18" must be maintained.

Notice of Confidentiality - Public Infrastructure Record

This Document is a Public Infrastructure Record of the City of Cincinnati and its Greater Cincinnati Water Works, and is not subject to the public disclosure requirements of the public records laws of the State of Ohio and federal government. This Document is being provided on the basis of your reported need, and shall be considered confidential. By accepting this Document, you agree that it will not be shared or otherwise disclosed to anyone other than persons who have a direct need to know for the sole purpose of carrying out the project for which this Document was obtained. Anyone receiving this Document is bound by the same confidentiality requirements and must take precautions to protect against its dissemination.

The failure to observe the confidentiality requirements of this Notice shall serve as the basis for the City of Cincinnati to immediately seek legal recourse, including the recovery of actual damages resulting from unauthorized access or

The Contractor is advised that due to the alignment of the proposed water main, it may be necessary to install a temporary valve box over an existing chambered valve that must remain in service during the water main installation as directed by the GCWW Inspector. The chamber shall be abandoned, a valve box (furnished by the contractor) placed over the valve, and upon project completion, the valve box must be removed. The contractor will not receive additional compensation for this work, but should include the cost of this work in his unit bid price for Item 1101, "Furnishing & Laying Ductile Iron Pipe and Fittinas".

It is the Contractor's responsibility to provide adequate water supply for domestic and fire fighting purposes. In order to accomplish the water main connections with a minimum amount of inconvenience to the consumers, it may be necessary to do the work at other than normal working hours or as may be scheduled by the GCWW.

The Contractor is advised that the operating pressure of the existing water main within the limits of the subject project is approximately 44-76 P.S.I.

In order to minimize the inconvenience of the consumers, the number of shutdowns required to do the proposed water main work shall be limited. Only one shutdown, limited to 8 hours, will be allowed during a 24 hour period.

All water service branches have a minimum cover of 3.0 feet.

The Contractor is advised that it shall be necessary to install temporary Plug/caps on the existing and proposed water mains in order to maintain service during testing and water main and branch connections. These temporary Plug shall be furnished by the contractor. He is responsible for their proper installation. The cost for this work shall be included in the Contractor's unit bid price for the appropriate Item 1101, "Furnishing & Laying Ductile Iron Pipe and Fittings".

The Contractor is required to excavate and expose the existing utilities and existing water mains along the line of the proposed water main and all proposed connection points to verify location, diameter, line and grade. Also, if the removal of the bulkhead or plug is required all excavation and temporary/permanent restoration shall be compensated under the Contractor's unit bid price for Item 1101, "Furnishing & Laying Ductile Iron Pipe and Fittings".

The Contractor is advised that all C.J. Plug are to be restrained with a Field Lok Gasket and all M.J. caps are to be restrained using a M.J.R.G.. This includes temporary Plug and caps for testing purposes. When a temporary plug is used, the contractor is permitted to remove the plug by cutting the section of pipe containing the plug and using a solid sleeve at that point to complete the tie-in. In the event that a cap is used, the contractor shall remove the M.J.R.G. and cap before completing the tie-in.

The Contractor is advised that on any fire hydrant required to be relocated with this project, all bolt assemblies shall be replaced. The cost for this work shall be included in the unit bid price for Item 1113 "Relocating Existing Fire Hydrants". No part of any fire hydrant setting shall be installed closer than five feet to any driveway, inlet, utility pole or guy wire anchor.

Item 1111, "Water Works Valve Chambers", shall also cover the furnishing and installing of Precast Reinforced Concrete Chambers in accordance with O.D.O.T. Specification 706.13. All pertinent provisions of this item and GCWW Standard Drawing No. 104-1A shall apply. Precast chambers shall be used in all locations where space permits and as directed by the GCWW.

Air cocks may be necessary for the proper operation of the water system. The Air Release Assembly, which may not be shown on the drawing, will be furnished and installed by the Contractor per the detail on these plans, if required by the GCWW.

It shall be the Contractor's responsibility to arrange for the removal and replacement of any poles and guys necessary for the installation of the proposed water mains, and any cost connected thereto shall be at his expense.

All pipe and specials shall be in accordance with City of Cincinnati Specification 40-110-16.

All procured water main and appurtenance materials, other than those furnished through the GCWW must be properly certified; certified for GCWW Inspection: or already inspected by the GCWW. Pipe, fittings, valves and fire hydrants must be GCWW inspected and stamped materials.

The Contractor should be advised that all Fittings (Bends, Offset Bends, Tees, Crosses, Sleeves, Caps and Plug) supplied for this job may be either ANSI/AWWA C-110 Full-body Ductile Iron, Cement Lined Fittings or ANSI/AWWA C-153 Compact Ductile Iron, Fusion Bonded Epoxy Coated Fittings in accordance with City of Cincinnati, Department of Purchasing, Standard Specification No. 40-110-12 for Pipe and Fittings Water, Ductile Iron 3" to 60". All fittings are subject to inspection and approval by appropriate GCWW Inspection personnel. Minor pinholes and abrasions to epoxy coated valves and fittings are to be repaired using 3M Hot Melt Patch Compounds (H.M.P.C.) in the stick form. Repair procedures shall be in accordance with the General Application Steps identified for the H.M.P.C. All repairs to epoxy coated fittings are subject to inspection and approval by appropriate GCWW Inspection personnel.

All rejected material, including pipe and fittings, shall be removed from the project site immediately.

The Contractor must maintain access to sidewalks at all times. Storage of any materials within the public Right of Way, including sidewalks, is not permitted unless approved by GCWW, the Project Engineer, or as indicated on the approved plans.

All copper tubing shall be type "K" of a standard nominal size: 3/4", 1", 1-1/2" and 2". All fittings will have copper flare type connections and shall be in accordance with City of Cincinnati Specification No. 40-113-05.

The contractor shall furnish the necessary certifications for branch material.

All proposed water mains will be hydrostatically tested for leakage in accordance with 1101.054, Hydrostatic Test for Leakage', of the appropriate Item 1101, "Furnishing & Laying Ductile Iron Pipe and Fittings".

The Contractor will be responsible for filling, flushing, and pressure testing new water mains, 20" or smaller. The contractor will provide all labor, material and equipment (including the necessary pumps to apply the pressure test). The Water Works will provide the necessary meter and gauge. All costs for this work shall be included in the contractor's unit bid price for Item 1101, "Furnishing & Laying Ductile Iron Pipe and Fittings". Once the filling and pressure testing are completed, the Contractor will be responsible for flushing the proposed water main and the CGWW will be responsible for bacteria sampling. The GCWW will be responsible for filling, pressure testing and flushing new water mains greater than 20".

The Contractor is responsible for all pipe sewers disturbed in the completion of this project. In the event it becomes necessary to repair or replace existing pipe sewers, the Contractor must notify Sewer Maintenance, (513)244-1369, before proceeding with the work.

The Contractor is advised that his unit bid prices for the appropriate Item 1101, "Furnish & Install Pipe and Fittings", includes final restoration of all disturbed surfaces. The GCWW will not make full compensation under Item 1101 until final restoration is complete.

"All valve and air release box assemblies shall be domestically manufactured.

All box assemblies for 12-inch and smaller gate valves and 1-inch air releases shall be either Tyler Union Series 6850, EJ Series 8500, or Bingham & Taylor Series 4905, or GCWW approved equal. Box assemblies for these applications require a frost plug and "BOXLOK."

All box assemblies for 16-inch and above butterfly or gate valves and 2-inch air releases shall be EJ Series 460, or GCWW approved equal. Box assemblies for these applications require a frost plug.

All costs associated with adherence to these requirements shall be included in the Contractor's unit bid price for Item 1116 — Furnishing and Installing Valve Box Complete.

SUGGESTED BILL OF MATERIALS

FURNISHED BY CONTRACTOR

QTY UNIT DESCRIPTION EACH 6" DUCTILE IRON PIPE, C.J., TH. CL. 55, 20' LENGTH EACH 8" DUCTILE IRON PIPE, C.J., TH. CL. 55, 20' LENGTH EACH 16" WIDE POLYETHYLINE TUBE, 16" WIDE X 20' LONG, 4 MIL CROSS LAMINATE EACH 20" WIDE POLYETHYLINE TUBE, 20" WIDE X 20' LONG, 4 MIL CROSS LAMINATE EACH 1 1/2" WIDE POLYETHYLINE TAPE WITH ADHESIVE (100' ROLL) EACH 8" SOLID SLEEVE, D.P. EACH 8" X 6" TEE, 2 M.J. X FLG. EACH 6" VALVE, FLG, X M.J. EACH 6" FLANGE TYTE RUBBER GASKET EACH VALVE BOX COMPLETE, IRON EACH VALVE BOX FROST PLUG EACH VALVE BOX BOXLOK (VALVE BOX ALIGNMENT DEVICE) EACH 6" FH EXTENSION (6"LONG) EACH 6" MECHANICAL JOINT RESTRAIN GLAND (M.J.R.G.) EACH 8" MECHANICAL JOINT RESTRAIN GLAND (M.J.R.G.)

SERVICE BRANCH MATERIALS **FURNISHED BY CONTRACTOR**

QTY UNIT DESCRIPTION 7 EACH CURB BOX 2 EACH ROADWAY BOX

FURNISHED BY COLERAIN TOWNSHIP

QTY UNIT DESCRIPTION 1 EACH 6" FIRE HYDRANT

RIAL ONS

GENERAL PROVISIONS SUGGESTED BILL OF MATERIALS RESTORATION DETAILS

SPRINGDALE RD. SIDEWALK

APPROVED:

DS-0989 / MF-17068

Ohio Environmental Protection Agency "Self-Certification" letter required prior to the start of construction

OEPA CERTIFICATION EXEMP NON - EXEMPT

SIDEWALK DS-0989 MF-17068 RD.

MRD CHECKED EGB

WATER WORKS

OF MATER PROVISION

FED BILL (SPECIAL

SUGGEST G.C.W.W.

OF

1-800-362-2764 **Utilities Protection** Call Before You Dig

***Note: Contractor shall verify the size and material of each service branch at the property line prior to installing branch. Cost for this work to be included in Item 1126—"Furnishing and Installing Copper Service Pipe w/ Aqua Shield".

The materials listed are only suggested for use during the water main and branch relocation work as proposed on the drawings. The contractor shall furnish additional material where needed. No allowance will be made for unused material nor will any extra payment be made for additional specials required to complete the water main work. Before ordering material the contractor is responsible for making his own field measurements and for field verifying the O.D. of existing water mains where sleeves and pipe couplings are involved.

Note 1:

Valves furnished by the contractor shall be: American Resilient Wedge Gate Valve Series 2500, U.S. Pipe Metroseal Gate Valve, Kennedy Valve Ken Seal Il Resilient Gate Valve, Clow F-6100 Series Resilient Wedge Gate Valve, Mueller 2360 Resilient Wedge Gate Valve.

Note 2:

Low-Lead Brass Material Requirements:

All components in contact with water shall be fabricated from Sebiloy II or Federalloy I-836 alloys or a material approved by the Engineer. All components that do not come in contact with water shall comply with the requirements of ASTM B 62 Copper Alloy Number. Coated or washed metals are not acceptable if their lead levels exceed .25% by weight prior to the coating or washing process. All service fittings and materials shall be certified as suitable for contact with drinking water by an accredited certification organization in accordance with ANSI/NSF Standard 61, Drinking Water Systems Components — Health Effects. All service fittings shall either be stamped or embossed with the letter "NL", to indicate "No-Lead", or marked to indicate that the product is manufactured from the low-lead alloys.

Special Note on Service Pipe in Corrosive Soils:

Service tubing is to be soft K Copper manufactured to the requirements of ASTM B88. Service tubing coating shall have NOVA Polyethylene LLDPE extrusion resin PP-0118-F coating to meet minimum of .026 mil thickness containing UV inhibitors. Service tubing shall have identification & traceability on both copper & plastic continuously line-marked with tube contents, ASTM specification, size, & descending footage. Unique lot number printed on both copper & plastic allowing product to be traced back to origin and time of manufacturing. Service tubing shall be Aqua Shield as manufactured by KAMCO Products Inc. or approved equal.

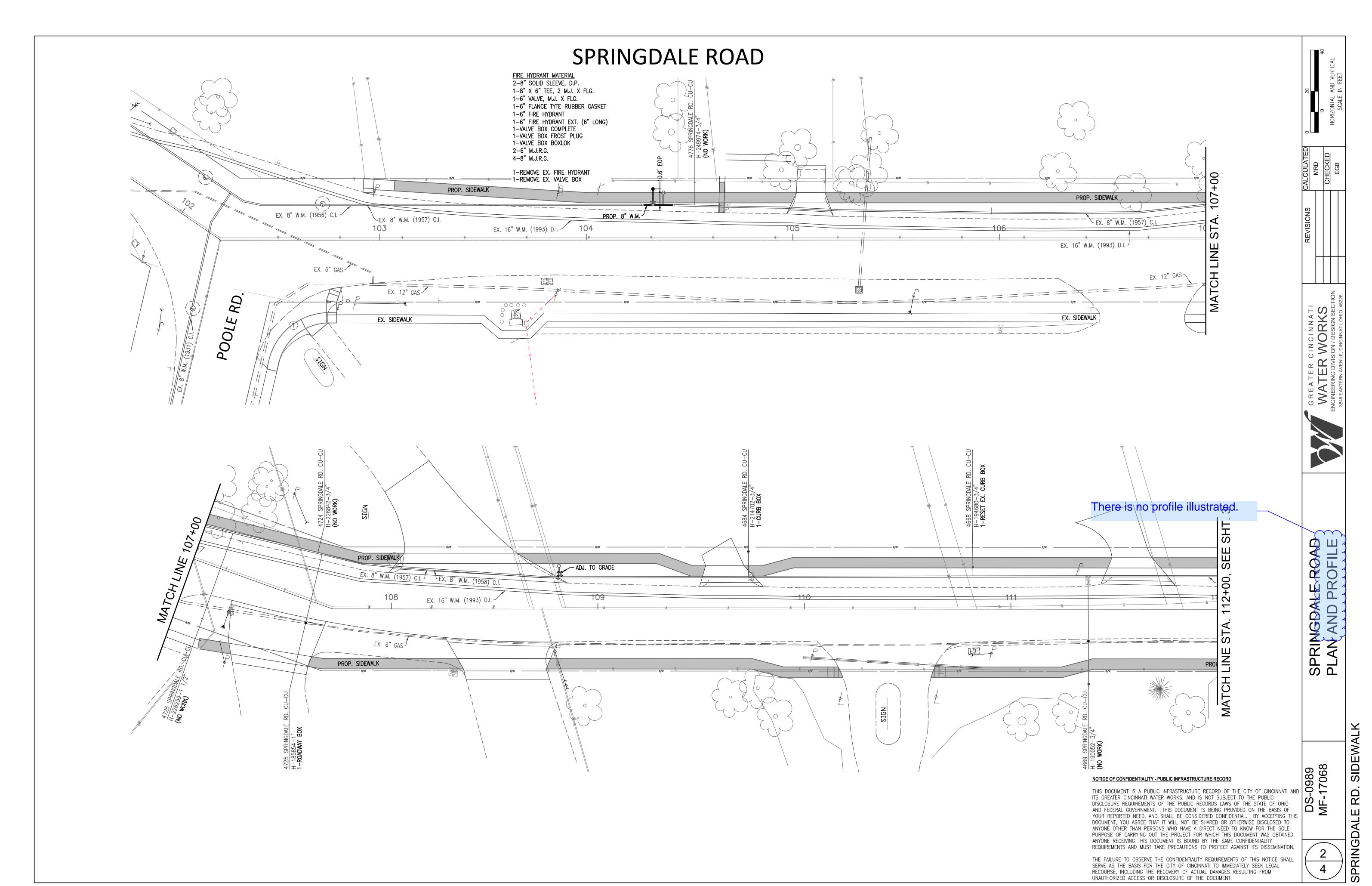
Note 4:

Mechanical Joint Restrain Gland (MJRG): All mechanical joint restraint glands furnished by the contractor shall be any of the

EBAA--Megalug TYLER/UNION--Tufgrip

STAR——Stargrip FORD——Uni—Flange Series 1400

All products shall be domestically manufactured.

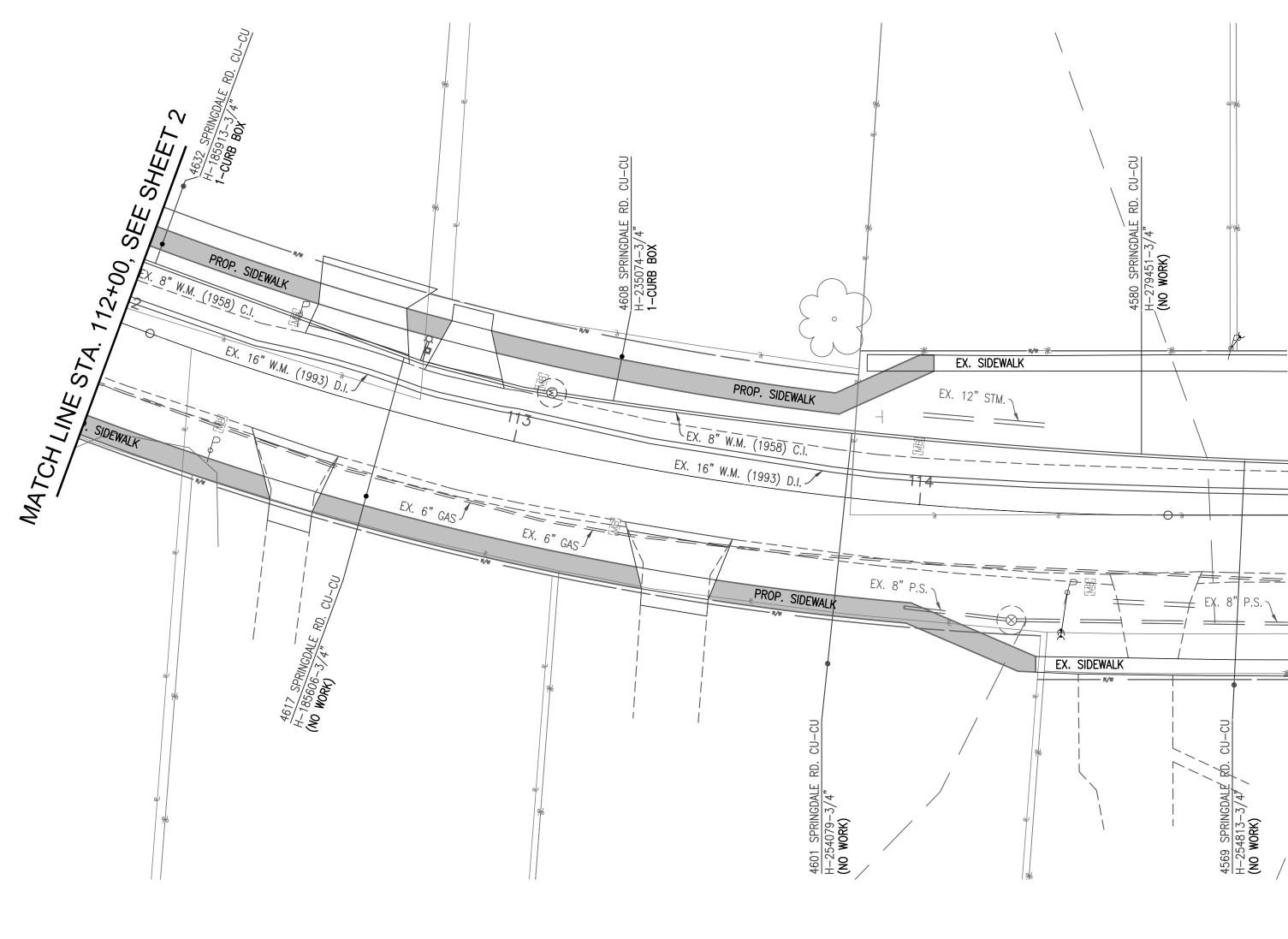






SIDI

PURPOSE OF CARRYING OUT THE PROJECT FOR WHICH THIS DOCUMENT WAS OBTAINED. REQUIREMENTS AND MUST TAKE PRECAUTIONS TO PROTECT AGAINST ITS DISSEMINATION.



**PERMANENT RESTORATION SHALL BE DONE IN ACCORDANCE WITH THE CONTRACT SPECIFICATIONS AND/OR

STANDARD WATER MAIN TRENCH INSTALLATION DETAIL

(TEMPORARY RESTORATION)

Low Strength Mortar Backfill (HAMCIN: CLSM-CDF)

*Granular Backfill -

PROJECT PLAN TYPICAL SECTIONS.

2-4" LIFTS ITEM 301

- Prop. W.M. or branch

IN AREAS WHERE THE PAVEMENT; BASE AND/OR SUB-BASE IS TO BE REPLACED AS PART OF THE ROADWAY CONTRACT, THE COST FOR PERMANENT PAVEMENT RESTORATION SHALL BE INCLUDED UNDER THE APPROPRIATE PAVEMENT BID ITEMS. COST FOR TEMPORARY PAVEMENT RESTORATION IN THESE AREAS SHALL BE INCLUDED IN THE CONTRACTOR'S APPROPRIATE UNIT BID PRICE FOR ITEM 1101 OR ITEM 1126.

UNLESS OTHERWISE NOTED ON THE PLANS, AREAS WHERE THE EXISTING PAVEMENT, BASE AND/OR SUB-BASE ARE NOT TO BE DISTURBED, THE COST FOR TEMPORARY AND PERMANENT PAVEMENT RESTORATION SHALL BE INCLUDED IN THE CONTRACTOR'S APPROPRIATE UNIT BID PRICE FOR ITEM 1101 OR ITEM 1126.

*BACKFILL OF THE WATER MAIN AND BRANCH TRENCH SHALL BE DONE IN ACCORDANCE WITH G.C.W.W. SPECIFICATIONS. ALL WATER MAINS AND BRANCHES INSTALLED OUTSIDE OF THE PAVEMENT AREA SHALL UTILIZE GRANULAR BACKFILL IN LIEU OF THE CONTROL DENSITY FILL. ALL COSTS FOR BACKFILL SHALL BE INCLUDED UNDER ITEM 1101 OR ITEM 1126.

CONTROLLED DENSITY FILL MUST MEET BOTH HAMCIN: CLSM-CDF PERFORMANCE SPECIFICATION AND O.D.O.T. SPECIFICATION. ALL FLOWABLE FILL PRODUCTS SHALL MEET THE REQUIREMENTS OF THE CURRENT HAMCIN CLSM-CDF BACKFILL SPECIFICATION (DATED MARCH 2015). COPIES OF THE HAMCIN CLSM-CDF BACKFILL SPECIFICATION ARE MADE AVAILABLE AT THE GCWW ENGINEERING OFFICES AT 4747 SPRING GROVE AVENUE, CINCINNATI DEPARTMENT OF TRANSPORTATION & ENGINEERING AT 801 PLUM STREET, OR THEIR WEBSITE: HTTP://WWW.CINCINNATI-OH.GOV/DOTE.MANUALS-PERMITS-SUPPLEMENTS/

ALSO, THE CONTRACTOR SHALL SUBMIT, PRIOR TO THE START OF CONSTRUCCTION, THE NECESSARY DOCUMENTATION FOR REVIEW AND APPROVAL BY THE GCWW.

PLEASE NOTE THAT THE G.C.W.W. REQUIREMENT IS IN ADDITION TO HAMCIN SPECIFICATIONS FOR FLOWABLE FILL PRODUCTS. A COPY OF THE G.C.W.W. REQUIREMENT IS AVAILABLE AT THE G.C.W.W. ENGINEERING OFFICE LOCATED AT 4747 SPRING GROVE AVENUE. CONTACT THE SUPERVISOR OF INSPECTION AT 591-7870.

PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL SUBMIT THE NECESSARY CONTROLLED DENSITY FILL COMPLIANCE DOCUMENTATION FOR REVIEW AND APPROVAL BY THE G.C.W.W.

ALL FIELD LAYOUT OF WATER MAIN PIPE AND SPECIALS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE PERFORMED BY A LICENSED SURVEYOR.

THE FAILURE TO OBSERVE THE CONFIDENTIALITY REQUIREMENTS OF THIS NOTICE SHALL SERVE AS THE BASIS FOR THE CITY OF CINCINNATI TO IMMEDIATELY SEEK LEGAL RECOURSE, INCLUDING THE RECOVERY OF ACTUAL DAMAGES RESULTING FROM UNAUTHORIZED ACCESS OR DISCLOSURE OF THE DOCUMENT.

There is no profile illustrated.

NOTICE OF CONFIDENTIALITY - PUBLIC INFRASTRUCTURE RECORD

THIS DOCUMENT IS A PUBLIC INFRASTRUCTURE RECORD OF THE CITY OF CINCINNATI AND

AND FEDERAL GOVERNMENT. THIS DOCUMENT IS BEING PROVIDED ON THE BASIS OF

DOCUMENT, YOU AGREE THAT IT WILL NOT BE SHARED OR OTHERWISE DISCLOSED TO ANYONE OTHER THAN PERSONS WHO HAVE A DIRECT NEED TO KNOW FOR THE SOLE

YOUR REPORTED NEED, AND SHALL BE CONSIDERED CONFIDENTIAL. BY ACCEPTING THIS

ITS GREATER CINCINNATI WATER WORKS, AND IS NOT SUBJECT TO THE PUBLIC DISCLOSURE REQUIREMENTS OF THE PUBLIC RECORDS LAWS OF THE STATE OF OHIO

ANYONE RECEIVING THIS DOCUMENT IS BOUND BY THE SAME CONFIDENTIALITY

