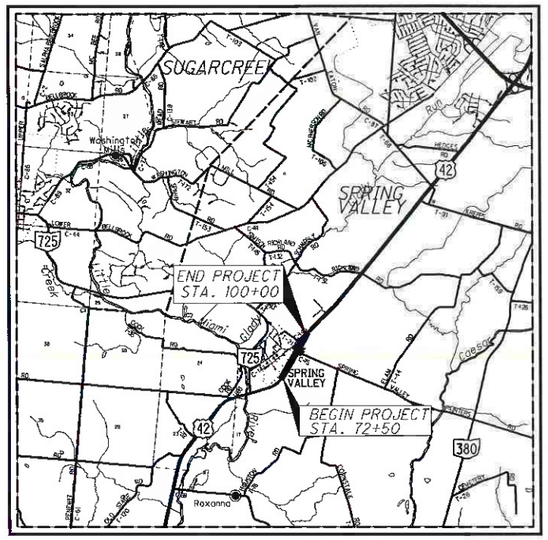

LOCATION MAP

LATITUDE: 39°36'38.43" LONGITUDE: -84°0'3.91"

SCALE IN MILES 0 1 2 3 4

N

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

DESIGN DESIGNATION

	SLM 2.484-3.623	SLM 3.623-6.137
CURRENT ADT (2020)	7,600	9,600
DESIGN YEAR ADT (2040)	9,900	12,500
DESIGN HOURLY VOLUME (2040)	1,000	1,200
DIRECTIONAL DISTRIBUTION	55%	51%
TRUCKS (24 HOUR B&C)	6%	4%
DESIGN SPEED	60 MPH	60 MPH
LEGAL SPEED	55 MPH	55 MPH
DESIGN FUNCTIONAL CLASSIFICATION:	04 MINOR ARTERIAL (RURAL)	

NHS PROJECT ..... NO

DESIGN EXCEPTIONS

NONE REQUIRED

UNDERGROUND UTILITIES
Contact Two Working Days Before You Dig
OHIO811.org Before You Dig
OHIO811, 8-1-1, or 1-800-362-2764
(Non-members must be called directly)

PLAN PREPARED BY:
OHIO DEPARTMENT OF TRANSPORTATION
DISTRICT 8 ENGINEERING
505 S. SR 741
LEBANON, OH 45036

STATE OF OHIO
ANDREA B. HENDERSON
82970
REGISTERED
PROFESSIONAL ENGINEER
SIGNATURES SEEN
SIGNED:
DATE: 12-2-19

STATE OF OHIO
DEPARTMENT OF TRANSPORTATION

GRE-42-3.15

SPRING VALLEY TOWNSHIP
GREENE COUNTY

INDEX OF SHEETS:

PROJECT DESCRIPTION

INSTALL A RESTRICTED CROSSING U-TURN (RCUT) AT THE INTERSECTION OF US ROUTE 42 AND SPRING VALLEY PAINTERSVILLE ROAD.

EARTH DISTURBED AREAS

PROJECT EARTH DISTURBED AREA:	5.1 ACRES
ESTIMATED CONTRACTOR EARTH DISTURBED AREA:	0.0 ACRES
NOTICE OF INTENT EARTH DISTURBED AREA:	5.1 ACRES

2019 SPECIFICATIONS

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

STANDARD CONSTRUCTION DRAWINGS

BP-3.1	7/18/14	RM-1.1	7/18/14	TC-41.30	10/18/13		
BP-8.1	1/18/19	RM-3.1	7/19/13	TC-42.20	10/18/13	I-1.2	1/15/16
BP-9.1	1/18/19	MCB-91	1/18/13	TC-52.10	10/18/13	I-2.1	1/15/16
		MT-95.40	1/20/17	TC-52.20	7/20/18	MCB-2.1	7/20/18
		MT-97.10	1/18/19	TC-61.10	1/17/14	MCB-2.2	7/20/18
HW-2.1	7/20/18	MT-97.12	1/20/17	TC-61.30	7/19/19	MCB-3.1	1/15/16
HW-2.2	7/20/18	MT-95.50	7/21/17	TC-64.10	7/19/19		
		MT-99.20	4/19/19	TC-65.10	1/17/14		
MGS-1.1	1/19/18	MT-101.90	7/21/17	TC-65.11	7/21/17		
MGS-2.1	1/19/18			TC-71.10	1/19/18		
MGS-4.2	7/19/13	MT-105.10	7/19/13	CB-4.2	1/18/13		
MGS-4.3	1/18/13			DM-1.1	7/21/17		
				DM-1.2	1/18/13		
				DM-1.3	7/18/14		
				DM-4.3	1/15/16		
				DM-4.4	1/15/16		

SUPPLEMENTAL SPECIFICATIONS		SPECIAL PROVISIONS
800-2019	10/18/19	WATERWAY PERMIT CONDITIONS-TBD
832	10/19/18	
836	1/19/18	
821	4/20/12	
878	1/18/19	
921	4/20/12	

I HEREBY APPROVE THESE PLANS AND DECLARE THAT THE MAKING OF THIS IMPROVEMENT WILL NOT REQUIRE THE CLOSING TO TRAFFIC OF THE HIGHWAY AND THAT PROVISIONS FOR THE MAINTENANCE AND SAFETY OF TRAFFIC WILL BE AS SET FORTH ON THE PLANS AND ESTIMATES.

APPROVED Tony K Campbell
DATE 12/3/19 DISTRICT DEPUTY DIRECTOR

APPROVED _____
DATE _____ DIRECTOR, DEPARTMENT OF TRANSPORTATION

FEDERAL PROJECT NO. E180(689)
PID NO. 108640
CONSTRUCTION PROJECT NO.
RAILROAD INVOLVEMENT NONE
GRE-42-3.15
1/73

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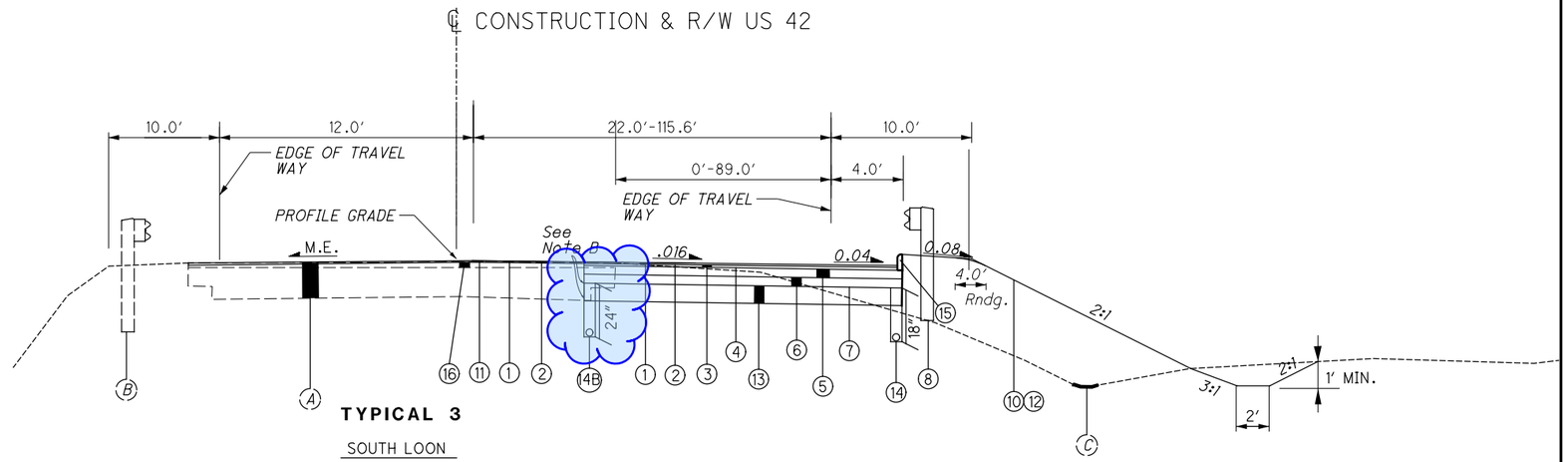
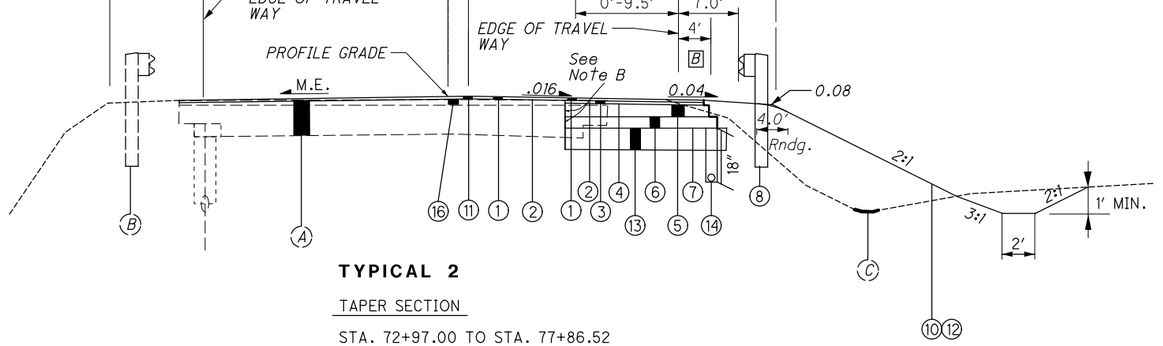


TYPICAL 3

SOUTH LOON

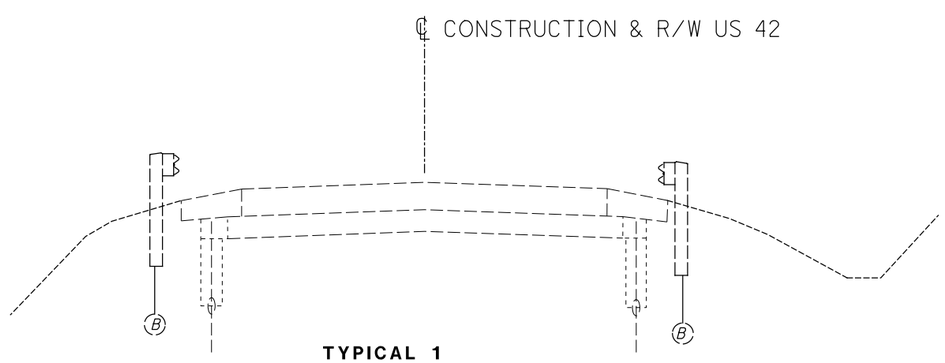
STA. 77+86.52 TO STA. 80+09.66



TYPICAL 2

TAPER SECTION

STA. 72+97.00 TO STA. 77+86.52



TYPICAL 1

EXISTING SECTION

STA. 70+50.00 TO STA. 72+97.02

LEGEND:

1. ITEM 441 - 1.25" ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), PG64-22
2. ITEM 407 - NON-TRACKING TACK COAT
3. ITEM 441 - 1.75" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (448)
4. ITEM 407 - NON-TRACKING TACK COAT
5. ITEM 301 - 6" ASPHALT CONCRETE BASE, PG64-22
6. ITEM 304 - 6" AGGREGATE BASE
7. ITEM 204 - SUBGRADE COMPACTION
8. ITEM 606 - GUARDRAIL, TYPE MGS WITH LONG POSTS -STA. 72+61.00 TO STA. 84+00.00
9. ITEM 609 - 4" CONCRETE MEDIAN -STA. 83+32.61 TO STA. 85+33.01*
10. ITEM 659 - SEEDING AND MULCHING
11. ITEM 254 - 1.25" PAVEMENT PLANING, ASPHALT CONCRETE
12. ITEM 659 - TOPSOIL
13. ITEM 206 - CEMENT STABILIZED SUBGRADE, 12" DEEP
14. ITEM 605 - 6" BASE PIPE UNDERDRAINS

14B. ITEM 605 - 6" SHALLOW PIPE UNDERDRAIN

15. ITEM 611 - 4" CURB, TYPE 4B
16. ITEM 441 - 0" MIN, ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1 (448) (SEE NOTE C)

A. *EXISTING ASPHALT PAVEMENT*

B. *EXISTING GUARDRAIL*

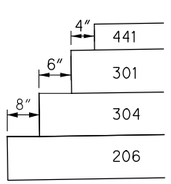
C. *EXISTING CONCRETE CHANNEL*

[A] LOON WIDENING -STA. 77+86.52 TO STA. 80+09.66
STA. 92+26.81 TO STA. 95+25.00

[B] VARIES: 3.4' - 4' STA. 72+97.00 TO STA. 73+46.86 R
4' - 2.4' STA. 99+61.64 TO STA. 99+96.60 R
3.4' - 4' STA. 92+23.96 TO STA. 93+29.10 L
4' - 2.8' STA. 94+97.22 TO STA. 95+22.04 L

[C] VEGETATED BIOFILTER -STA. 90+30 TO STA. 96+65

[D] TURF REINFORCE MAT TYPE 1- STA. 80+25 TO STA. 83+25



BASE STEP DETAIL
(NTS)

NOTES:

"M.E." MEANS "MATCH EXISTING"

NOTE "B"
THE EXISTING PAVEMENT EDGES SHALL BE SAW CUT TO LOCATE A SOUND EDGE PER SEC. 203.04(e) OF THE CMS. FOR ESTIMATING PURPOSES, PAVEMENT CALCULATIONS INCLUDED IN THE PLAN INDICATE AN AVERAGE WIDTH OF 1 FT OF EXISTING PAVEMENT BEING REPLACED.

NOTE C
ITEM 441, ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1, (448) IS TO BE USED AS A LEVELING COURSE TO ESTABLISH A 0.016 CROSS SLOPE. ESTIMATED QUANTITIES HAVE BEEN ADDED TO THE GENERAL SUMMARY.

TYPICAL SECTIONS

GRE-42-3.15

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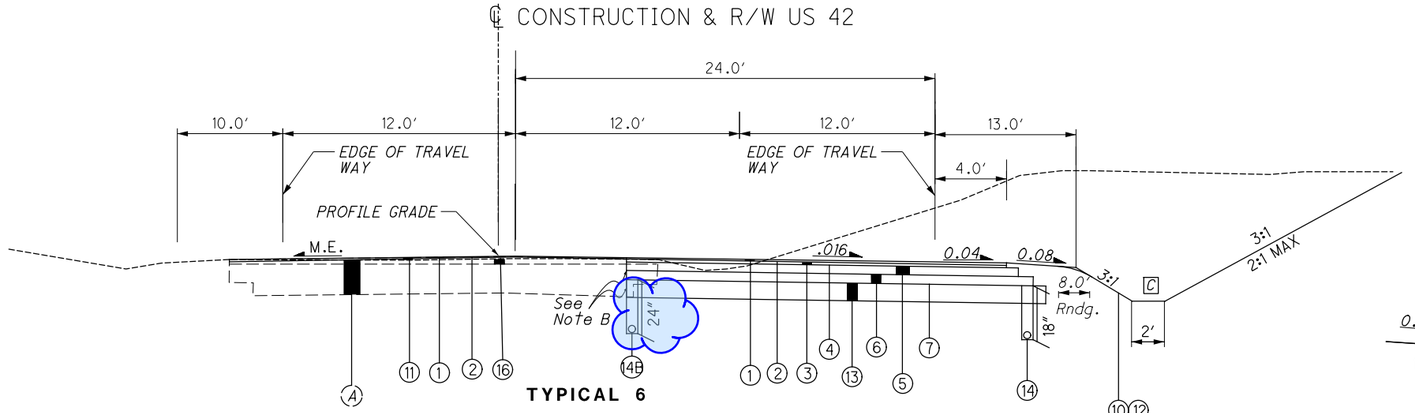
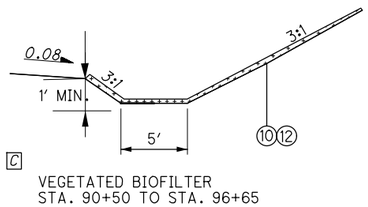


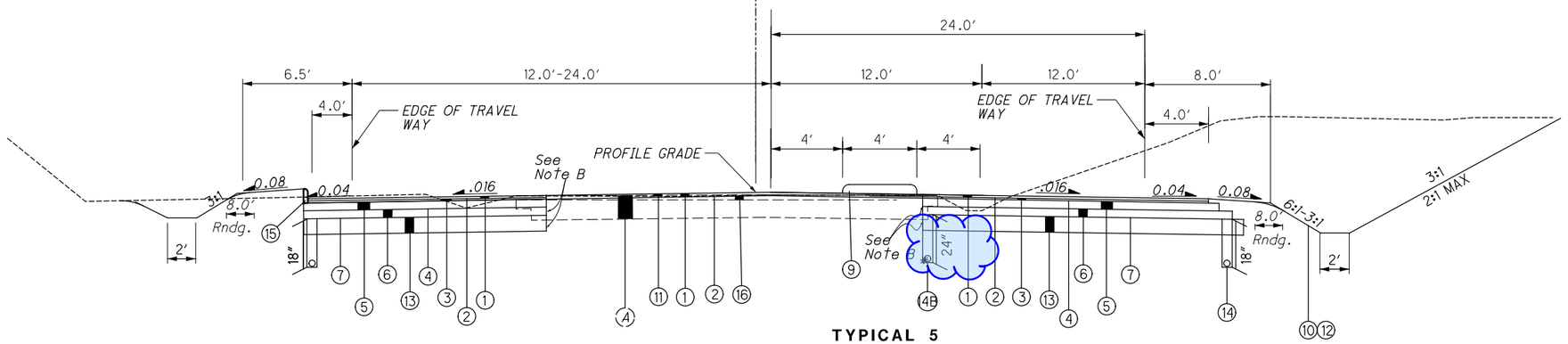
TYPICAL 6

WIDEN RIGHT

STA. 87+94.75 TO STA. 92+23.95



VEGETATED BIOFILTER
STA. 90+50 TO STA. 96+65



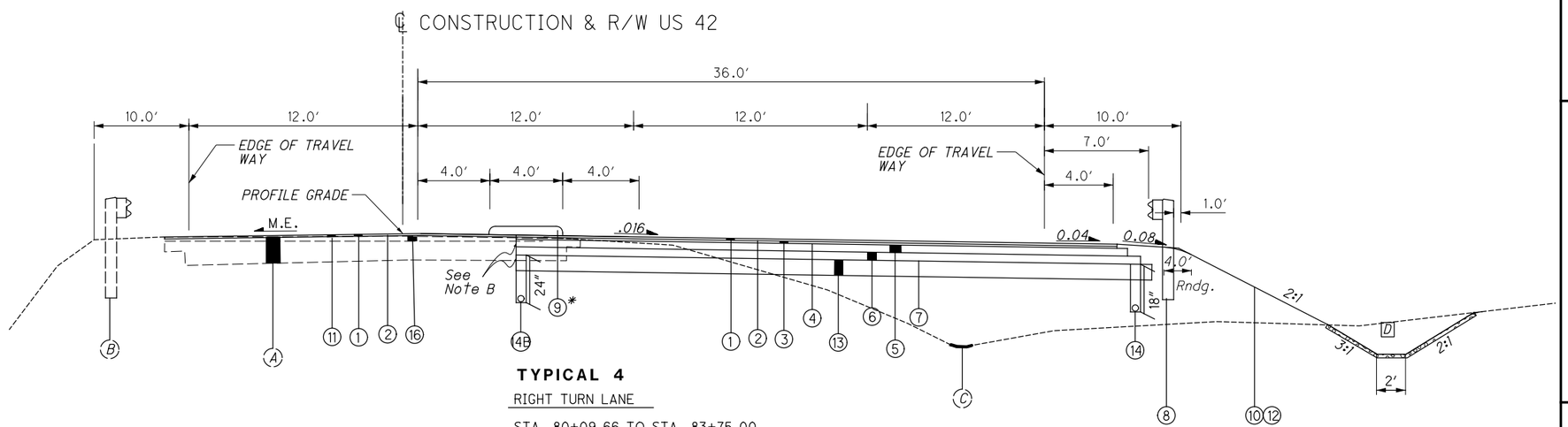
TYPICAL 5

WIDEN BOTH BOTH SIDES

STA. 84+75.00 TO STA. 87+94.75

FOR PAVEMENT LEGEND SEE SHEET 3

FOR BASE AND SUBBASE STEP DETAIL, SEE SHEET 3



TYPICAL 4

RIGHT TURN LANE

STA. 80+09.66 TO STA. 83+75.00

TYPICAL SECTIONS

GRE-42-3.15

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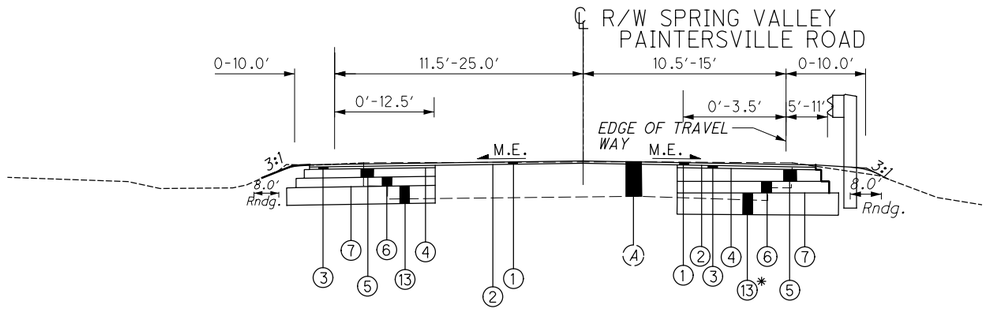
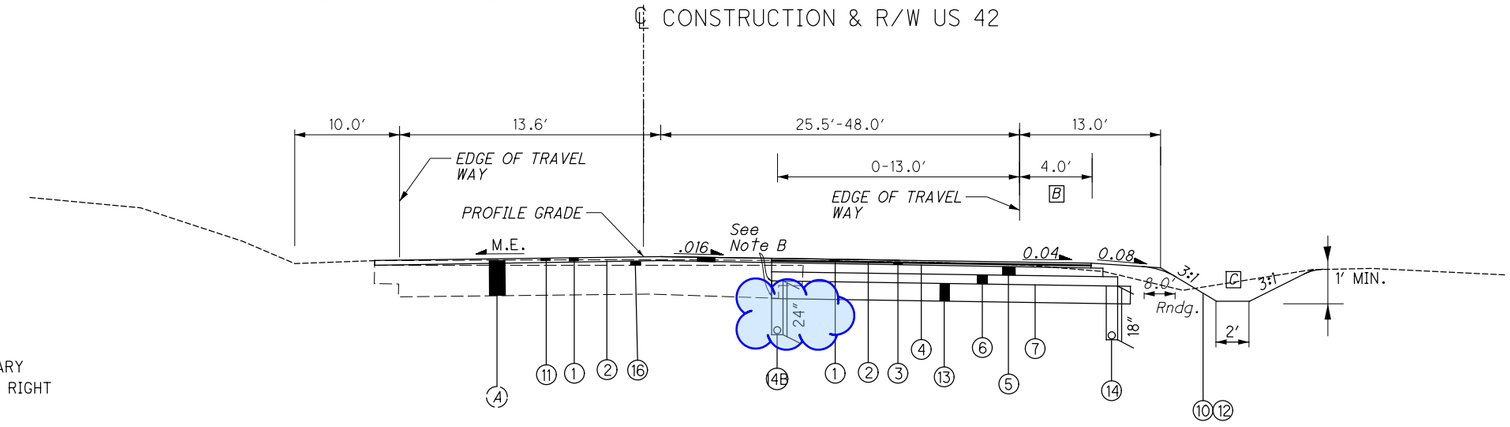


TYPICAL 9

SPRING VALLEY PAINTERSVILLE ROAD

STA. 61+90.00 TO STA. 65+50.00



TYPICAL 8

CURVE SECTION

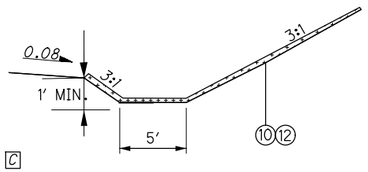
STA. 95+34.61 TO STA. 99+96.60

NOTES

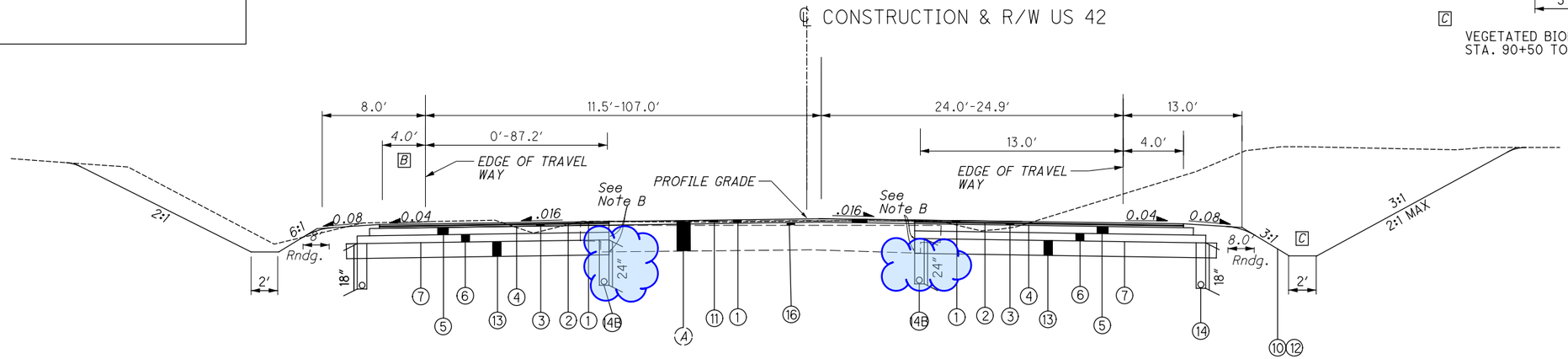
* CEMENT STABILIZATION WILL NOT BE NECESSARY ON SPRING VALLEY ROAD STA. 61+90 TO 63+00 RIGHT (SOUTH WEST RADIUS)

FOR PAVEMENT LEGEND SEE SHEET 3

FOR BASE AND SUBBASE STEP DETAIL, SEE SHEET 3



VEGETATED BIOFILTER
STA. 90+50 TO STA. 96+65



TYPICAL 7

NORTH LOON PAVEMENT

STA. 92+23.95 TO STA. 95+34.61

TYPICAL SECTIONS

GRE-42-3.15

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UTILITIES

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

DAYTON POWER & LIGHT COMPANY
1900 DRYDEN ROAD
DAYTON, OHIO 45439
937-331-4521 (WILLIAM GOURLEY
WILLIAM.GOURLEY@AES.COM

VECTREN ENERGY
6500 CLYO ROAD
CENTERVILLE, OHIO 45459
937-312-2539 (JEFF PIKE)
JEFFREY.T.PIKE@CENTERPOINTENERGY.COM
(SEND PLANS TO SHARED EMAIL BOX:
PUBLICPROJECT@CENTERPOINTENERGY.COM

AT&T OHIO
7201 FAR HILLS AVENUE
DAYTON, OHIO 45459
937-296-3588 (HOWARD LAUDERMILK)
HL1596@ATT.COM

CHARTER COMMUNICATIONS/SPECTRUM
3691 TURNER ROAD
DAYTON, OHIO 45415
937-425-8854 (CHRIS BOOKSH)
CHRISTOPHER.BOOKSH@CHARTER.COM

GREENE COUNTY WATER & SEWER
667 DAYTON-XENIA ROAD
XENIA, OHIO 45385
937-562-7462 (MARISSA RAGLIN)
MRAGLIN@CO.GREENE.OH.US

GREENE COUNTY WATER & SEWER
667 DAYTON-XENIA ROAD
XENIA, OHIO 45385
937-562-7462 (KEVIN MOYER)
KMOYER@CO.GREENE.OH.US

GREENE COUNTY ENGINEER'S OFFICE
615 DAYTON-XENIA ROAD
XENIA, OHIO 45385
937-562-7500 (STEPHANIE ANN GOFF)
SGOFF@CO.GREENE.OH.US

VILLAGE OF SPRING VALLEY/SPRING VALLEY VILLAGE COUNCIL
7 W. MAIN STREET
SPRING VALLEY, OHIO 45370
937-367-4368 (BRETT BONECUTTER, ADMINSTRATOR)
BBONESV@GMAIL.COM

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 WHETHER INSIDE OR OUTSIDE THESE WORK LIMITS.

PART-WIDTH CONSTRUCTION

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

ROUNDING

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

SURVEYING 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 VERTICAL POSITIONING AND HORIZONTAL POSITIONING PARAMETERS FOR ALL SURVEYING:
VERTICAL POSITIONING
- ORTHOMETRIC HEIGHT DATUM: NAVD 88
- GEOID: GEOID 12A

HORIZONTAL POSITIONING
- REFERENCE FRAME: NAD 83
- ELLIPSOID: GRS80
- MAP PROJECTION: LAMBERT CONFORMAL CONIC
- COORDINATE SYSTEM: OHIO SOUTH ZONE (SPC 3402)

THE COMBINED SCALE FACTOR IS 1.0

UNITS ARE IN U.S. SURVEY FEET. USE THE FOLLOWING CONVERSION FACTOR: 1 METER = 3.280833333 U.S. SURVEY FEET.

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 THE DAMAGED OR DESTROYED MONUMENTS IN ACCORDANCE WITH CMS 623.

MONUMENT ASSEMBLIES

CONSTRUCT MONUMENTS IN ACCORDANCE WITH THE DETAILS SHOWN ON THE STANDARD CONSTRUCTION DRAWING RM-1.1 AND AT THE LOCATIONS SHOWN BELOW.

STA. 83+00 26' L
STA. 83+00 44' R
STA. 89+00 24' L
STA 89+00 33' R

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

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

CONNECTION BETWEEN EXISTING AND PROPOSED GUARDRAIL

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

ITEM 204 - PROOF ROLLING

THE FOLLOWING QUANTITY IS PROVIDED IN THE GENERAL SUMMARY TO ADDRESS LOCATIONS REQUIRING PROOF ROLLING.

ITEM 204 - PROOF ROLLING ____3 HOUR.

ITEM 878 -INSPECTION AND COMPACTION TESTING OF UNBOUND MATERIALS

THIS ITEM SHALL INCLUDE GRE-US42 LOCATIONS. A LUMP SUM QUANTITIY HAS BEEN INCLUDED IN THE GENERAL SUMMARY FOR ALL WORK AS DESCRIBED IN SUPPLEMENTAL SPECIFICATION 878.

ITEM 878 INSPECTION AND TESTING OF UNBOUND MATERIALS LUMP

ITEM 621 - RAISED PAVEMENT MARKERS (RPM)

INSTALL RAISED PAVEMENT MARKERS ACCORDING TO SCD TC-65.10 AND TC-65.11.

SIGN, MISC: REMOVAL OF SOLAR POWERED LED SIGNS FOR SALVAGE, EACH

632 REMOVAL OF TRAFFIC SIGNAL INSTALLATION, AS PER PLAN

REQUIRED UNDER THE PROVISIONS OF 203.05. TRAFFIC SIGNAL INSTALLATIONS, INCLUDING SIGNAL HEADS, CABLE, MESSENGER WIRE, STRAIN POLES, CABINET, CONTROLLER, ETC., SHALL BE REMOVED IN ACCORDANCE WITH C&MS 632.26 AND AS INDICATED ON THE PLANS. REMOVED ITEMS SHALL BE REUSED AS PART OF A NEW INSTALLATION ON THE PROJECT OR STORED ON THE PROJECT FOR SALVAGE BY (D08 TRAFFIC DEPARTMENT) IN ACCORDANCE WITH THE LISTING GIVEN HEREIN.
REMOVE SUPOORT FOUNDATIONS TO AT LEAST 2 FEET BELOW SUBGRADE OR FINISHED GROUNDLINE.

NO ITEMS WILL BE REUSED
ITEMS TO BE STORED INCLUDE SIGNAL HEADS AND FLASHER CABINET

ITEMS TO BE STORED SHALL BE DELIVERED TO THE NEAREST ODOT FACILITY WHOSE ADDRESS IS LISTED BELOW:

ODOT DISTRICT 08, ATTN: JIM JUDD
513-933-6692
505 SOUTH STATE ROUTE 741
LEBANON, OHIO 45036

IN THE EVENT THE ITEMS STORED ON THE PROJECT FOR SALVAGE BY THE LOCAL AGENCY ARE NOT REMOVED, THE CONTRACTOR SHALL, WHEN DIRECTED BY THE ENGINEER IN WRITING, REMOVE AND DISPOSE OF THE ITEMS AT NO ADDITIONAL COST TO THE PROJECT.

CLEARING AND GRUBBING

ALTHOUGH THERE ARE NO TREES OR STUMPS SPECIFICALLY MARKED FOR REMOVAL WITHIN THE LIMITS OF THE PROJECT, A LUMP SUM QUANTITY IS INCLUDED IN THE GENERAL SUMMARY FOR ITEM 201, CLEARING AND GRUBBING. ALL PROVISIONS AS SET FORTH IN THE SPECIFICATIONS UNDER THIS ITEM ARE INCLUDED IN THE LUMP SUM PRICE BID FOR ITEM 201, CLEARING AND GRUBBING.

BAT HABITAT REMOVAL PLAN

THE PROJECT IS LOCATED WITHIN THE KNOWN HABITAT RANGES OF THE FEDERALLY LISTED AND PROTECTED INDIANA BAT AND NORTHERN LONG-EARED BAT. THE CONTRACTOR SHALL NOT REMOVE TREES UNDER THIS PROJECT FROM APRIL 1 THROUGH SEPTEMBER 30. ALL NECESSARY TREE REMOVAL SHALL OCCUR FROM OCTOBER 1 THROUGH MARCH 31. THE CONTRACTOR SHALL DEMARCATE CLEARING LIMITS IN THE FIELD TO AVOID ANY UNAUTHORIZED TREE CLEARING. THIS REQUIREMENT IS NECESSARY TO AVOID AND MINIMIZE IMPACTS TO THESE SPECIES AS REQUIRED BY THE ENDANGERED SPECIES ACT. FOR THE PURPOSES OF THIS NOTE, A TREE IS DEFINED AS A LIVE, DYING, OR DEAD WOODY PLANT, WITH A TRUNK THREE INCHES OR GREATER IN DIAMETER AT A HEIGHT OF 4.5 FEET ABOVE THE GROUND SURFACE, AND WITH A MINIMUM HEIGHT OF 13 FEET.

SEEDING AND MULCHING

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

659, TOPSOIL	170 CU. YD.
659, SEEDING AND MULCHING	1533 SQ. YD.
659, COMMERCIAL FERTILIZER	.21 TON
659, LIME	.32 ACRES
659, WATER	8.3 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. QUANTITY CALCULATIONS FOR SEEDING AND MULCHING ARE BASED ON THESE LIMITS.

BENCHING OF FOUNDATION SLOPES

ALTHOUGH CROSS-SECTIONS INDICATE SPECIFIC DIMENSIONS FOR PROPOSED BENCHING OF THE EMBANKMENT FOUNDATIONS IN CERTAIN AREAS, NO WAIVER OF THE SPECIFICATIONS IS INTENDED. BENCH ALL OTHER SLOPED EMBANKMENT AREAS AS SET FORTH IN 203.05. NO ADDITIONAL PAYMENT WILL BE MADE FOR BENCHING REQUIRED UNDER THE PROVISIONS OF 203.05.
QUANTITIES HAVE BEEN INCLUDED IN THE GENERAL SUMMARY TO BE USED AS SHOWN ON THE PLANS.
203, EMBANKMENT.....1936 CY
203, EXCAVATION.....1760 CY

EMBANKMENT OVER EXISTING DITCHES

WHERE NEW EMBANKMENT IS TO BE PLACED OVER EXISTING DITCHES, ALL SOFT AND WET SOILS SHALL BE REMOVED AS SHOWN ON THE PLAN DETAIL AND REPLACED WITH SUITABLE EMBANKMENT MATERIAL.
QUANTITIES HAVE BEEN INCLUDED IN THE GENERAL SUMMARY TO BE USED AS SHOWN ON THE PLANS.
203, EMBANKMENT.....428 CY
203, EXCAVATION.....389 CY

CALCULATED ABH
CHECKED JDO

GENERAL NOTES

GRE-42-3.15

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VEGETATED BIOFILTER

THIS PLAN UTILIZES VEGETATED BIOFILTER(S) FOR POST CONSTRUCTION STORM WATER TREATMENT. PLACE EITHER ITEM 660 SODDING OR ITEM 659 SEEDING AND MULCHING WITH A 4-INCH LIFT OF TOPSOIL AS SHOWN IN THE PLANS TO ANY DISTURBED AREA ON THE SHOULDER AND FORESLOPE DRAINING TO A VEGETATED BIOFILTER. EACH VBF WILL INCLUDE ITEM 670, DITCH EROSION PROTECTION. THE DITCH FOR EACH VEGETATED BIOFILTER SHALL BE TRAPEZOIDAL, AS SHOWN IN THE PLANS.

VEGETATED BIOFILTER
STA. 92+50 TO STA. 96+65

ITEM 659 TOPSOIL = 33.6 CY
ITEM 670 DITCH EROSION PROTECTION = 404 SY

FRICKE AIRPORT
OWNER: DONALD E. FRICKE
2408 US RT 42
SPRING VALLEY, OH 45370
PHONE 937-862-4560
MANAGER: DONALD E. FRICKE
2408 US RT 42
SPRING VALLEY, OH 45370
PHONE 937-862-4560

ASBESTOS NOTIFICATION

UTILITY REVIEWS FOR THIS LOCATION INDICATE THE PRESENCE OF 48" WATER LINE BURIED AT AN ASSUMED DEPTH OF 3' BELOW THE DITCH LINE. THE CONTRACTOR SHALL COMPLETE THE 10 DAY OEPA NOTIFICATION OR DEMOLOTION FORM AND SUBMIT IT ELECTRONICALLY TO https://epa.ohio.gov/dapc/atu/asbestos AT LEAST TEN (10) WORKING DAYS PRIOR TO THE START OF ANY DEMOLITION AND/OR RENOVATION.

THE CONTRACTOR SHALL PROVIDE A COPY OF THE COMPLETED FORM TO THE ENGINEER AT LEAST TEN (10) WORKING DAYS PRIOR TO THE START OF ANY DEMOLITION AND/OR RENOVATION. THE FORM SHALL INCLUDE: 1) THE CONTRACTORS NAME AND ADDRESS, 2) THE SCHEDULED DATES FOR THE START AND COMPLETION OF THE BRIDGE REMOVAL AND 3) A DESCRIPTION OF THE PLANNED DEMOLITION WORK AND THE METHOD(S) TO BE USED.

DUE CARE WILL BE TAKEN TO NOT IMPACT THIS WATERLINE. SHOULD THE WATERLINE BECOME EXPOSED OR IMPACTED THE CONTRACTOR SHALL STOP WORK AND CONTACT SUZANNE ENDERS AT SUZANNE.ENDERS@DOT.OHIO.GOV (513-933-6286), AS WELL AS THE APPROPRIATE OEPA CONTACT LISTED AT THE ABOVE WEB ADDRESS.

SHOULD CONSTRUCTION REQUIRE THE REMOVAL AND DISPOSAL OF THIS MATERIAL, THE CONTRACTOR SHALL ENSURE THAT ASBESTOS CONTAINING MATERIALS DO NOT BECOME FRIABLE (BROKEN-UP OR DISPERSED) AND THAT NO VISIBLE FIBER EMISSIONS WILL OCCUR. ADDITIONALLY, THE REMOVAL AND DISPOSAL OF THE ASBESTOS CONTAINING MATERIAL SHALL COMPLY WITH CHAPTER 3745-20 OF THE OHIO ADMINISTRATIVE CODE, THE NATIONAL EMISSION STANDARD FOR HAZARDOUS AIR POLLUTANTS (NESHAP) AND APPLICABLE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) REGULATIONS (29 CFR 1926.1101).

BASIS FOR PAYMENT THE CONTRACTOR SHALL FURNISH ALL FEES, LABOR, AND MATERIAL NECESSARY TO COMPLETE AND SUBMIT THE OEPA NOTIFICATION FORM. PAYMENT FOR THIS WORK SHALL BE INCLUDED IN ITEM 202 PORTIONS OF STRUCTURE REMOVED, AS PER PLAN.

INSTREAM WORK RESTRICTION

THE CONTRACTOR SHALL NOT PERFORM ANY WORK WITHIN THE JURISDICTIONAL BOUNDARIES OF ANY WATERWAY, INCLUDING WETLANDS, UNTIL ODOT OBTAINS THE NECESSARY WATERWAY PERMIT. THIS INCLUDES THE PLACEMENT OF ANY TEMPORARY OR PERMANENT FILLS.

POTENTAILLY IMPACTED AIRPORTS	AIRPORT ELEVATION "A"	PROJECT ELEVATION "B" + 25 FEET (CONTRLLING CRITERIA)	DISTANCE BETWEEN AIRPORT & PROJECT "C"	NOTIFICATION SLOPE X:1	USE TYPE	AMOUNT OF CLEARANCE ABOVE NOTIFICATION SLOPE "Z"
FRICKE AIRPORT	905 FT	906 + 40 = 910 FT	1,854 FT	50:1	PRIVATE	-1.92 FT

CONCRETE SLOPE PROTECTION REMOVED, AS PER PLAN

EXISTING PAVED GUTTER SHALL BE REMOVED ACCORDING TO THE PLANS. AND EXCAVATED THEN BACKFILLED AS SHOWN ON THE CROSS SECTIONS.

POST CONSTRUCTION STORM WATER TREATMENT

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

EXISTING SUBSURFACE DRAINAGE

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

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

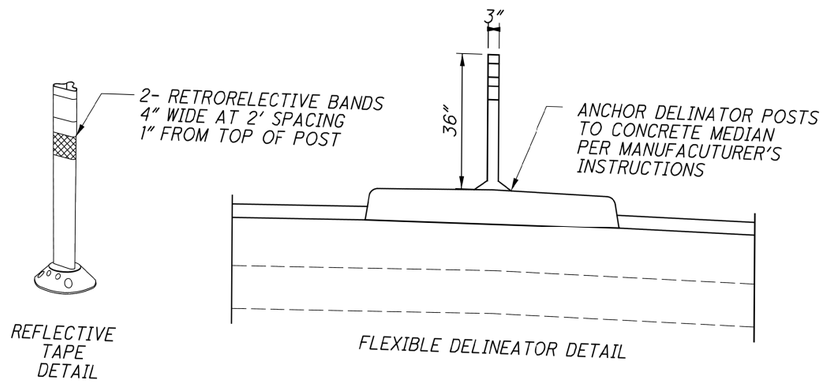
UNDERDRAINS THAT CAN BE CONNECTED TO THE NEW OR EXISTING UNDERDRAINS AT THE END OF THE PROJECT LIMITS AS WELL AS ALL NECESSARY BENDS OR BRANCHES REQUIRED FOR CONNECTION ARE INCLUDED IN THE BASIS OF PAYMENT FOR UNCLASSIFIED PIPE UNDERDRAINS.

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

601, TIED CONCRETE BLOCK MAT, TYPE 1 7.1 SQ. YD.
611 6" CONDUIT, TYPE F 197 FT.
605 6" SHALLOW PIPE UNDERDRAINS 3086 FT.
605 6" BASE PIPE UNDERDRAINS 2757 FT.

THE FOLLOWING ESTIMATED QUANTITIES ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.

TEE---------15 EA
45° WYE---------6 EA
45° BEND---------6 EA



ITEM 620 DELINIEATOR, MISC. SURFACE MOUNTED-YELLOW

CALCULATED ABH
CHECKED JDO

GENERAL NOTES

GRE-42-3.15

ITEM 614, MAINTAINING TRAFFIC

ALL LANES OF TRAFFIC IN EACH DIRECTION SHALL BE MAINTAINED AT ALL TIMES, EXCEPT IN ACCORDANCE WITH THE PERMITTED LANE CLOSURE TIMES, BY USE OF THE EXISTING PAVEMENT AND COMPLETED PAVEMENT.

NO WORK SHALL BE PERFORMED AND ALL EXISTING LANES SHALL BE OPEN TO TRAFFIC DURING THE FOLLOWING DESIGNATED HOLIDAYS OR EVENTS:

CHRISTMAS FOURTH OF JULY
NEW YEARS LABOR DAY
MEMORIAL DAY THANKSGIVING
(OTHER HOLIDAY OR EVENT)

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

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

SHOULD THE CONTRACTOR FAIL TO MEET ANY OF THESE REQUIREMENTS, THE CONTRACTOR SHALL BE ASSESSED A DISINCENTIVE PER THE LANE VALUE CONTRACT (PN 127).

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.

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 254 - PAVEMENT PLANING

THE PAVEMENT PLANING SHALL BE SCHEDULED SO AS TO BE COVERED BY THE SURFACE COURSE WITHIN 3 CALENDAR DAYS. THE COST OF THE ABOVE SHALL BE INCLUDED IN THE UNIT BID PRICE FOR THE RESPECTIVE ITEM. A DISINCENTIVE IN THE AMOUNT OF $3900 SHALL BE ASSESSED FOR EACH DAY, OR PORTION THEREOF, A PLANED SURFACE IS OPEN TO TRAFFIC BEYOND THE SPECIFIED TIME LIMIT.

ITEM 614 - LAW ENFORCEMENT OFFICER (WITH PATROL CAR) FOR ASSISTANCE DURING CONSTRUCTION OPERATIONS

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 FLAGGERS BE USED.

IN ADDITION TO THE REQUIREMENT 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) SHOULD BE PROVIDED FOR THE FOLLOWING TRAFFIC CONTROL TASKS AS APPROVED BY THE ENGINEER:

FOR LANE CLOSURES: DURING INITIAL SET-UP PERIODS, TEAR DOWN PERIODS, SUBSTANTIAL SHIFTS OF A CLOSURE POINT OR WHEN A NEW LANE CLOSURE ARRANGEMENTS ARE INITIATED FOR LONG-TERM LANE CLOSURES/SHIFTS (FOR THE FIRST AND LAST DAY OF MAJOR CHANGES IN TRAFFIC CONTROL SETUP).

IN GENERAL, LEOS SHOULD BE POSITIONED IN ADVANCE OF AND ON THE SAME SIDE AS THE LANE RESTRICTION OR AT THE POINT OF ROAD CLOSURE, AND TO 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 ENGINEER SHALL HAVE FINAL CONTROL OVER THE LEOS' DUTIES AND PLACEMENT, AND WILL RESOLVE ANY ISSUES THAT MAY ARISE BETWEEN THE TWO PARTIES.

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.

FLOODLIGHTING

FLOODLIGHTING OF THE WORK SITE FOR OPERATIONS CONDUCTED DURING NIGHTTIME PERIODS SHALL BE ACCOMPLISHED SO THAT THE LIGHTS DO NOT CAUSE GLARE TO THE DRIVERS ON THE ROADWAY. TO ENSURE THE ADEQUACY OF THE FLOODLIGHT PLACEMENT, THE CONTRACTOR AND THE ENGINEER SHALL DRIVE THROUGH THE WORK SITE EACH NIGHT WHEN THE LIGHTING IS IN PLACE AND OPERATIVE PRIOR TO COMMENCING ANY WORK. IF GLARE IS DETECTED, THE LIGHT PLACEMENT AND SHIELDING SHALL BE ADJUSTED TO THE SATISFACTION OF THE ENGINEER BEFORE WORK PROCEEDS.

PAYMENT FOR ALL LABOR, EQUIPMENT AND MATERIALS SHALL BE INCLUDED IN THE LUMP SUM CONTRACT PRICE FOR ITEM 614, MAINTAINING TRAFFIC.

ITEM 614 - LAW ENFORCEMENT OFFICER (WITH PATROL CAR) FOR ASSISTANCE DURING CONSTRUCTION OPERATIONS (cont.)

THE LEO SHALL REPORT IN TO THE CONTRACTOR PRIOR TO THE START OF THE SHIFT, IN ORDER TO RECEIVE INSTRUCTIONS REGARDING THE 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 ENGINEER. 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 QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY:

ITEM 614, LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE 30 HOURS

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.

TRENCH FOR WIDENING

TRENCH EXCAVATION FOR BASE WIDENING SHALL BE ONLY ON ONE SIDE OF THE PAVEMENT AT A TIME. THE OPEN TRENCH SHALL BE ADEQUATELY MAINTAINED AND PROTECTED WITH DRUMS OR BARRICADES AT ALL TIMES. PLACEMENT OF PROPOSED SUBBASE AND BASE MATERIAL SHALL FOLLOW AS CLOSELY AS POSSIBLE BEHIND EXCAVATION OPERATIONS. THE LENGTH OF WIDENING TRENCH WHICH IS OPEN AT ANY ONE TIME SHALL BE HELD TO A MINIMUM AND SHALL AT ALL TIMES BE SUBJECT TO APPROVAL OF THE ENGINEER.

OVERNIGHT TRENCH CLOSING

THE BASE WIDENING SHALL BE COMPLETED TO A DEPTH OF TO A DEPTH OF NO MORE THAN 5 INCHES BELOW THE EXISTING PAVEMENT BY THE END OF EACH WORK DAY. NO TRENCH SHALL BE LEFT OPEN OVERNIGHT EXCEPT FOR A SHORT LENGTH (25 FEET OR LESS) OF A WORK SECTION AT THE END OF THE TRENCH. 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.

WORK ZONE MARKINGS AND SIGNS

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY FOR USE AT LOCATIONS IDENTIFIED BY THE ENGINEER FOR WORK ZONE PAVEMENT MARKINGS AND SIGNS PER THE REQUIREMENTS OF C&MS 614.04 AND 614.11.

ITEM 614, WORK ZONE CENTER LINE, CLASS III, 642 PAINT, 0.70 MI
ITEM 614, WORK ZONE EDGE LINE, CLASS III, 4", 642 PAINT, 0.70 MI
ITEM 614, WORK ZONE STOP LINE, CLASS III, 642 PAINT 32 FT

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 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 OFFICE (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, MINIMUM WIDTH OF DRIVABLE PAVEMENT, DETOUR ROUTES, IF APPLICABLE, AND ANY OTHER INFORMATION REQUESTED BY THE PROJECT ENGINEER.

NOTIFICATION TIME TABLE

ITEM	DURATION OF CLOSURE	NOTICE DUE TO PERMITS & PIO
RAMP & ROAD CLOSURES	>= 2 WEEKS	21 CALENDAR DAYS PRIOR TO CLOSURE
	> 12HOURS & < 2 WEEKS	14 CALENDAR DAYS PRIOR TO CLOSURE
	< 12 HOURS	4 CALENDAR DAYS PRIOR TO CLOSURE
LANE CLOSURES & RESTRICTIONS	>= 2 WEEKS	14 CALENDAR DAYS PRIOR TO CLOSURE
	< 2 WEEKS	5 BUSINESS DAYS PRIOR TO CLOSURE
START OF CONSTRUCTION & TRAFFIC PATTERN CHANGES	N/A	14 CALENDAR DAYS PRIOR TO IMPLEMENTATION

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

ITEM 614, WORK ZONE CENTER LINE, CLASS I, 642 PAINT, 2.1 MI
ITEM 614, WORK ZONE EDGE LINE, CLASS I, 4", 642 PAINT, 2.1 MI
ITEM 614, WORK ZONE STOP LINE, CLASS I, 642 PAINT 96 FT

CALCULATED ABH CHECKED LB

MAINTENANCE OF TRAFFIC GENERAL NOTES

GRE-42-03.15

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PERMITTED LANE CLOSURE TIMES

SHORT TERM LANE CLOSURES ARE THOSE WHICH ARE PERMITTED BY THE PERMITTED LANE CLOSURE NOTE. THESE TIMES SHALL NOT BE REVISED WITHOUT PRIOR APPROVAL FROM THE DISTRICT 8 WORK ZONE TRAFFIC CONTROL MANAGER. SHORT TERM LANE CLOSURES SHALL ONLY BE IMPLEMENTED WHEN WORK IS BEING CONTINUOUSLY PERFORMED IN THE LANE. THE CLOSURE SHALL BE REOMOVED AS SOON AS POSSIBLE AFTER WORK HAS STOPPED. PERMITTED LANE CLOSURES SHALL ONLY BE ALLOWED DURING THE TIMES SPECIFIED IN THE UNAUTHORIZED LANE USE TABLE INCLUDED IN THESE PLANS. NO LANE OR SHOULDER CLOSURE SHALL BE IN PLACE WHEN NO WORK IS BEING PERFORMED.

UNAUTHORIZED LANE USE TABLE

DESCRIPTION OF CRITICAL LANE/RAMP TO BE MAINTAINED	PERMITTED TIME PERIOD	TIME UNIT	DISINCENTIVE $ PER TIME UNIT
US 42: MAINTAIN ONE LANE OF TRAFFIC IN EACH DIRECTION	4 PM to 6 PM	1 MINUTE	$65
US 42: MAINTAIN ONE LANE OF TWO-WAY TRAFFIC USING A FLAGGER.	6 PM to 4 PM	1 MINUTE PERIOD	$65
SPRING VALLEY PAINTERSVILLE ROAD: MAINTAIN ONE LANE OF TWO-WAY TRAFFIC USING A FLAGGER.	ALL TIMES	1 MINUTE PERIOD	$65

QUANTITIES

PORTABLE BARRIER SHALL BE PLACED TO PROTECT THE WIDENING SECTIONS OF THE WORK ZONE IN PHASE 1 AND PHASE 2.

THE EXISTING PAVED SHOULDER ON THE WEST SIDE OF US 42 SHALL BE REMOVED AND REPLACED WITH PAVEMENT FOR MAINTAINING TRAFFIC, CLASS B FROM STA. 71+85 TO STA. 98+00. EXISTING RUMBLE STRIPES SHALL BE REMOVED IN ITS ENTIRETY.

THE FOLLOWING ESTIMATED QUNATITIES HAVE BEEN INCLUDED IN THE GENERAL SUMMARY FOR USE AS DETERMINED BY THE ENGINEER FOR THE MAINTENANCE OF TRAFFIC.

ITEM 614 - WORK ZONE IMPACT ATTENUATOR (UNIDIRECTIONAL) 8 EA
ITEM 615 - PAVEMENT FOR MAINTAINING TRAFFIC, CLASS B 1165 SY
ITEM 622 - PORTABLE BARRIER, 32" 4150 LF

SEQUENCE OF CONSTRUCTION

PHASE 1

CONSTRUCT TEMPORARY PAVEMENT ALONG EAST SIDE OF US 42 BY MAINTAINING ONE LANE OF TWO-WAY TRAFFIC VIA FLAGGING OPERATIONS PER MT-97.10. MAINTAIN TRAFFIC FOR THE NORTH-SOUTH MOVEMENT ON US 42 USING TWO-WAY TRAFFIC ON THE EXISTING AND TEMPORARY PAVEMENT. PLACE TEMPORARY CONCRETE BARRIER TO SEPARATE THE CONSTRUCTION ZONE FROM THE TRAFFIC BEING MAINTAINED. CONTRACTOR SHALL MAINTAIN ALL ACCESS AT ALL TIMES. LANES SHALL BE A MINIMUM OF 10 FEET WIDTH WITH A 2 FOOT PAVED SHOULDER ON EACH SIDE.

PHASE 2

CONSTRUCT ALL WORK ON WEST SIDE OF US 42. MAINTAIN TRAFFIC FOR THE NORTH-SOUTH MOVEMENT ON US 42 USING TWO-WAY TRAFFIC ON THE EXISTING, PROPOSED AND TEMPORARY PAVEMENT. PLACE TEMPORARY CONCRETE BARRIER TO SEPARATE THE CONSTRUCTION ZONE FROM THE TRAFFIC BEING MAINTAINED. CONTRACTOR SHALL MAINTAIN ALL ACCESS AT ALL TIMES. LANES SHALL BE A MINIMUM OF 10 FEET WIDTH WITH A 2 FOOT PAVED SHOULDER ON EACH SIDE. PHASE 2 CAN BE COMPLETED BEFORE PHASE 1. TEMPORARY PAVEMENT TO BE PLACED AS NEEDED ON THE EAST SIDE OF US 42 IF PHASE 2 TO BE COMPLETED BEFORE PHASE 1.

PHASE 3

CONTRACTOR SHALL MILL/PLANE THE ENTIRE LENGTH OF THE PROJECT.

CONTRACTOR SHALL COMPLETE ALL MEDIAN WORK AND PAVING OF SURFACE COURSE.

CONTRACTOR SHALL COMPLETE ALL SIGNING AND MARKING WORK.

TRAFFIC SHALL BE MAINTAINED ACCORDING TO SCD MT-97.10 AND MT-97.12.

ITEM 614, WORK ZONE IMPACT ATTENUATOR FOR 24" WIDE HAZARDS (UNIDIRECTIONAL OR BIDIRECTIONAL)

THIS ITEM SHALL CONSIST OF FURNISHING AND INSTALLING A NONGATING IMPACT ATTENUATOR. FURNISH AN IMPACT ATTENUATOR FROM THE OFFICE OF ROADWAY ENGINEERING'S APPROVED LIST FOR WORK ZONE IMPACT ATTENUATORS, FROM THE ROADWAY STANDARDS APPROVED PRODUCTS WEB PAGE.

INSTALLATION SHALL BE AT THE LOCATIONS SPECIFIED IN THE PLANS IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS.

THE CONTRACTOR SHALL REPAIR OR REPLACE A DAMAGED UNIT WITHIN 24 HOURS OF A DAMAGING IMPACT.

WHEN BIDIRECTIONAL DESIGNS ARE SPECIFIED, THE CONTRACTOR SHALL SUPPLY APPROPRIATE TRANSITIONS.

WHEN GATING IMPACT ATTENUATORS ARE DESIRED, THE CONTRACTOR SHALL SUBMIT DOCUMENTATION TO THE ENGINEER FOR ACCEPTANCE.

THE COST FOR THE ADDITIONAL BARRIER REQUIRED FOR A GATING IMPACT ATTENUATOR SHALL BE INCLUDED IN THE COST OF THE GATING IMPACT ATTENUATOR.

PAYMENT FOR THE ABOVE WORK SHALL BE MADE AT THE UNIT PRICE BID AND SHALL INCLUDE ALL LABOR, TOOLS, EQUIPMENT AND MATERIALS NECESSARY TO CONSTRUCT AND MAINTAIN A COMPLETE AND FUNCTIONAL IMPACT ATTENUATOR SYSTEM, INCLUDING ALL RELATED BACKUPS, TRANSITIONS, LEVELING PADS, HARDWARE AND GRADING, NOT SEPARATELY SPECIFIED, AS REQUIRED BY THE MANUFACTURER.

DELINEATION OF PORTABLE AND PERMANENT BARRIER

BARRIER REFLECTORS AND OBJECT MARKERS SHALL BE INSTALLED ON ALL PORTABLE BARRIER (PB) USED FOR TRAFFIC CONTROL; AND, ON PERMANENT CONCRETE BARRIER (INCLUDING BRIDGE PARAPETS) LOCATED WITHIN 5 FEET OF THE EDGE OF THE ADJACENT TRAVEL LANE.

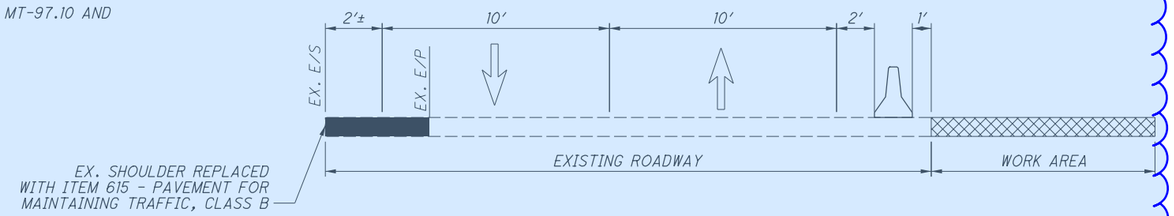
BARRIER REFLECTORS SHALL CONFORM TO C&MS 626, EXCEPT THAT THE SPACING SHALL BE AS PER TRAFFIC SCD MT-101.70. OBJECT MARKERS AND THEIR INSTALLATION SHALL CONFORM TO C&MS 614.03 AND SCD MT-101.70. WHEN THE PB CONTAINS GLARE SCREEN, ONE SET OF THREE VERTICAL STRIPES OF SHEETING SHALL BE CONSIDERED EQUIVALENT TO AN OBJECT MARKER, ONE-WAY.

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED IN THE PLANS AND CARRIED TO THE GENERAL SUMMARY:

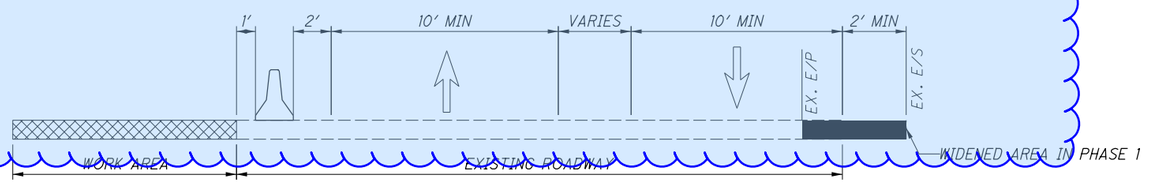
ITEM 614, BARRIER REFLECTOR, TYPE 1 (ONE-WAY) 90 EACH

ITEM 614, OBJECT MARKER, ONE-WAY 90 EACH

PAYMENT SHALL BE FULL COMPENSATION FOR ALL MATERIAL, LABOR, INCIDENTALS AND EQUIPMENT NECESSARY FOR FURNISHING, INSTALLING, MAINTAINING AND REMOVING EACH OF THE ABOVE ITEMS.



MOT TYPICAL SECTION - PHASE 1
NOT TO SCALE



MOT TYPICAL SECTION - PHASE 2
NOT TO SCALE

CALCULATED ABH CHECKED LB

MAINTENANCE OF TRAFFIC GENERAL NOTES

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SHEET NUM.										PART.	ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
	2	4	6	8	14	15	59	63	65	01/SAF/OT						
															ROADWAY	
			LS							LS	201	11000	LS		CLEARING AND GRUBBING	
										1,942	202	23000	1,942	SY	PAVEMENT REMOVED	
										1,325	202	38000	1,325	FT	GUARDRAIL REMOVED	
										1	202	20010	1	EACH	HEADWALL REMOVED	
										222	202	32801	222	SY	CONCRETE SLOPE PROTECTION REMOVED, AS PER PLAN	7
							20,453			20,453	203	10000	20,453	CY	EXCAVATION	
							25,131			25,131	203	20000	25,131	CY	EMBANKMENT	
										1,300	204	13000	1,300	CY	EXCAVATION OF SUBGRADE	
			3							3	204	45000	3	HOUR	PROOF ROLLING	
										207	206	10500	207	TON	CEMENT	
										8,000	206	11000	8,000	SY	CURING COAT	
										8,000	206	15010	8,000	SY	CEMENT STABILIZED SUBGRADE, 12 INCHES DEEP	
										LS	206	30000	LS		MIXTURE DESIGN FOR CHEMICALLY STABILIZED SOILS	
						2				2	606	26550	2	EACH	ANCHOR ASSEMBLY, MGS TYPE T	
										1,425	606	15100	1,425	FT	GUARDRAIL, TYPE MGS WITH LONG POSTS	
										89	609	70000	89	SY	4" CONCRETE MEDIAN	
			4							4	623	40500	4	EACH	REFERENCE MONUMENT, TYPE A	6
										LS	878	25000	LS		INSPECTION AND COMPACTION TESTING OF UNBOUND MATERIALS	
										1	202	98600	1	EACH	ABANDON MISC.:, REMOVE ABANDONED GAS LINE	
															EROSION CONTROL	
			216							216	659	00300	216	CY	TOPSOIL	
			1,533							1,533	659	10000	1,533	SY	SEEDING AND MULCHING	
			0.21							0.21	659	20000	0.21	TON	COMMERCIAL FERTILIZER	
			0.32							0.32	659	31000	0.32	ACRE	LIME	
			8							8	659	35000	8	MGAL	WATER	
						10.8				10.8	601	11000	10.8	SY	RIPRAP, TYPE D	
			555							555	670	00700	555	SY	DITCH EROSION PROTECTION	
										48,300	832	30000	48,300	EACH	EROSION CONTROL	
										LS	832	15000	LS		STORM WATER POLLUTION PREVENTION PLAN	
										LS	832	15002	LS		STORM WATER POLLUTION PREVENTION INSPECTIONS	
										LS	832	15010	LS		STORM WATER POLLUTION PREVENTION INSPECTION SOFTWARE	
						240				240	836	10000	240	SY	SEEDING AND EROSION CONTROL WITH TURF REINFORCING MAT, TYPE 1	
															DRAINAGE	
										LS	503	11100	LS		COFFERDAMS AND EXCAVATION BRACING	
					0.62	0.91				1.53	602	20000	1.53	CY	CONCRETE MASONRY	
		2,757								2,757	605	98000	2,757	FT	UNDERDRAINS, MISC.:, BASE PIPE	7
		3,086								3,086	605	11100	3,086	FT	6" SHALLOW PIPE UNDERDRAINS	7
		197								197	611	00510	197	FT	6" CONDUIT, TYPE F FOR UNDERDRAIN OUTLETS	7
						11				11	611	13200	11	FT	30" CONDUIT, TYPE A, 707.01 (AL COATED), 707.04	
										7.1	601	21050	7.1	SY	TIED CONCRETE BLOCK MAT, TYPE 1	7
						1				1	611	98840	1	EACH	INLET, NO. 2-A-6	
										3	611	98180	3	EACH	CATCH BASIN, NO. 3A	
										1	611	98230	1	EACH	CATCH BASIN, NO. 4	
										1	611	98150	1	EACH	CATCH BASIN, NO. 3	
										358	611	04400	358	FT	12" CONDUIT, TYPE B	
										7	611	07400	7	FT	18" CONDUIT, TYPE B	
										298	611	07600	298	FT	24" CONDUIT, TYPE B	
										118	611	08200	118	FT	18" CONDUIT, TYPE F, 707.05 TYPE C	
															PAVEMENT	
										9,419	254	01000	9,419	SY	PAVEMENT PLANING, ASPHALT CONCRETE, 1.25"	
										3,462	255	20000	3,462	FT	FULL DEPTH PAVEMENT SAWING	
										1,444	301	46000	1,444	CY	ASPHALT CONCRETE BASE, PG64-22	
										1,444	304	20000	1,444	CY	AGGREGATE BASE	
										1,222	407	20000	1,222	GAL	NON-TRACKING TACK COAT	
										628	441	50000	628	CY	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), PG64-22	
										421	441	50300	421	CY	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (448)	
										50	441	50200	50	CY	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1, (448)	

CALCULATED ABH
CHECKED JDO

GENERAL SUMMARY

GRE-42-3.15

I:\ProjectData\GRE\08640_GRE-US42-3.16\Design\Roadway\Sheets\08640_GG001.dgn Sheet 1/17/2020 5:52:55 AM ahenders

SHEET NUM.										PART.	ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
2	4	6	8	9	14	15	59	63	65	01/SAF/OT						
															TRAFFIC CONTROL	
								150		150	621	00100	150	EACH	RPM	62
										1,300	642	30000	1,300	FT	REMOVAL OF PAVEMENT MARKING	62
								35		35	621	54000	35	EACH	RAISED PAVEMENT MARKER REMOVED	62
								1.08		1.08	644	00104	1.08	MILE	EDGE LINE, 6"	62
								0.77		0.77	618	41000	0.77	MILE	RUMBLE STRIPES, EDGE LINE (ASPHALT CONCRETE)	
								0.07		0.07	644	00204	0.07	MILE	LANE LINE, 6"	62
								30		30	620	70000	30	EACH	DELINEATOR, MISC.:TYPE C, WHITE	62
										10	620	70000	10	EACH	DELINEATOR, MISC.:SURFACE MOUNTED, YELLOW	6
								1		1	644	00300	1	MILE	CENTER LINE	62
								1,250		1,250	644	00404	1,250	FT	CHANNELIZING LINE, 12"	62
								32		32	644	00500	32	FT	STOP LINE	62
								16		16	644	01300	16	EACH	LANE ARROW	62
								2		2	644	01410	2	EACH	WORD ON PAVEMENT, 96"	
								817		817	644	00700	817	FT	TRANSVERSE/DIAGONAL LINE	62
										29	630	03100	29	FT	GROUND MOUNTED SUPPORT, NO. 3 POST	64
									274	274	630	80100	274	SF	SIGN, FLAT SHEET	64
									4	4	630	08600	4	EACH	SIGN POST REFLECTOR	64
									16	16	630	84900	16	EACH	REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL	64
									6	6	630	85100	6	EACH	REMOVAL OF GROUND MOUNTED SIGN AND REERECTION	64
									10	10	630	86002	10	EACH	REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL	64
										13	626	00110	13	EACH	BARRIER REFLECTOR, TYPE 2, WHITE/WHITE	
															TRAFFIC SIGNALS	
										1	632	90100	1	EACH	REMOVAL OF TRAFFIC SIGNAL INSTALLATION, AS PER PLAN	6
															MAINTENANCE OF TRAFFIC	
			30							30	614	11110	30	HOUR	LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE	
				8						8	614	12336	8	EACH	WORK ZONE IMPACT ATTENUATOR (UNIDIRECTIONAL)	
				90						90	614	13310	90	EACH	BARRIER REFLECTOR, TYPE 1, ONE-WAY	
				90						90	614	13350	90	EACH	OBJECT MARKER, ONE WAY	
			0.7							0.7	614	21550	0.7	MILE	WORK ZONE CENTER LINE, CLASS III, 642 PAINT	
			0.7							0.7	614	22350	0.7	MILE	WORK ZONE EDGE LINE, CLASS III, 4", 642 PAINT	
			32							32	614	26610	32	FT	WORK ZONE STOP LINE, CLASS III, 642 PAINT	
			2.1							2.1	614	21100	2.1	MILE	WORK ZONE CENTER LINE, CLASS I, 642 PAINT	
			2.1							2.1	614	22100	2.1	MILE	WORK ZONE EDGE LINE, CLASS I, 4", 642 PAINT	
			96							96	614	26200	96	FT	WORK ZONE STOP LINE, CLASS I, 642 PAINT	
				1,165						1,165	615	25000	1,165	SY	PAVEMENT FOR MAINTAINING TRAFFIC, CLASS B	
			LS							LS	615	10000	LS		ROADS FOR MAINTAINING TRAFFIC	
				4,150						4,150	622	41000	4,150	FT	PORTABLE BARRIER, 32"	
															INCIDENTALS	
										LS	614	11000	LS		MAINTAINING TRAFFIC	
										LS	623	10000	LS		CONSTRUCTION LAYOUT STAKES AND SURVEYING	
										LS	624	10000	LS		MOBILIZATION	

CALCULATED ABH
CHECKED JDO

GENERAL SUMMARY

GRE-42-3.15

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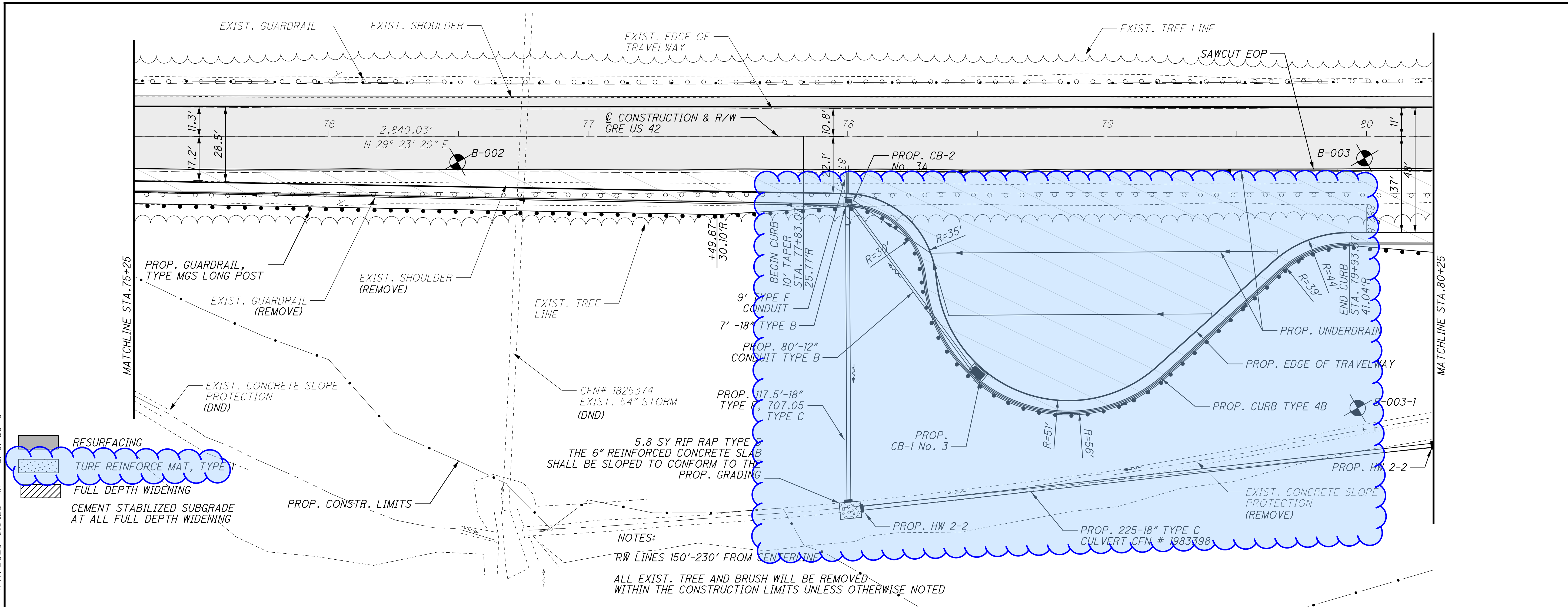
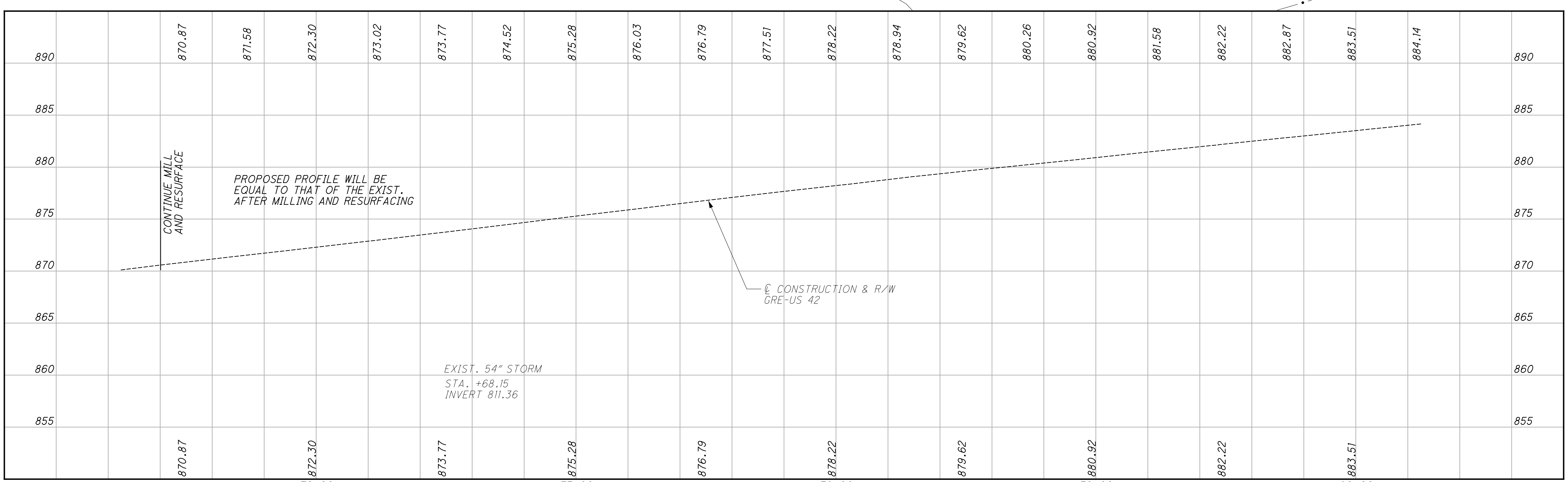

EXIST. GUARDRAIL
EXIST. SHOULDER
EXIST. EDGE OF TRAVELWAY
EXIST. TREE LINE
SAWCUT EOP
℄ CONSTRUCTION & R/W GRE US 42
76
77
78
79
80
2,840.03'
N 29° 23' 20" E
B-002
B-003
B-003-1
11.3'
17.2'
28.5'
10.8'
22.1'
11'
37'
48'
PROP. CB-2 No. 3A
R=30'
R=35'
R=39'
R=44'
R=51'
R=56'
+49.67 30.10'R
BEGIN CURB 10' TAPER STA. 77+83.07 25.77'R
END CURB STA. 79+93.57 41.04'R
MATCHLINE STA.75+25
MATCHLINE STA.80+25
PROP. GUARDRAIL, TYPE MGS LONG POST
EXIST. GUARDRAIL (REMOVE)
EXIST. SHOULDER (REMOVE)
EXIST. TREE LINE
9' TYPE F CONDUIT
7' -18" TYPE B
PROP. 80'-12" CONDUIT TYPE B
PROP. 117.5'-18" TYPE F, 707.05 TYPE C
PROP. CB-1 No. 3
PROP. UNDERDRAIN
PROP. EDGE OF TRAVELWAY
PROP. CURB TYPE 4B
PROP. HW 2-2
EXIST. CONCRETE SLOPE PROTECTION (REMOVE)
PROP. 225-18" TYPE C CULVERT CFN # 1983398
PROP. HW 2-2
EXIST. CONCRETE SLOPE PROTECTION (DND)
CFN# 1825374 EXIST. 54" STORM (DND)
5.8 SY RIP RAP TYPE 2
THE 6" REINFORCED CONCRETE SLAB SHALL BE SLOPED TO CONFORM TO THE PROP. GRADING
PROP. CONSTR. LIMITS
RESURFACING
TURF REINFORCE MAT, TYPE I
FULL DEPTH WIDENING
CEMENT STABILIZED SUBGRADE AT ALL FULL DEPTH WIDENING
NOTES:
RW LINES 150'-230' FROM CENTERLINE
ALL EXIST. TREE AND BRUSH WILL BE REMOVED WITHIN THE CONSTRUCTION LIMITS UNLESS OTHERWISE NOTED


870.87
871.58
872.30
873.02
873.77
874.52
875.28
876.03
876.79
877.51
878.22
878.94
879.62
880.26
880.92
881.58
882.22
882.87
883.51
884.14
890
885
880
875
870
865
860
855
CONTINUE MILL AND RESURFACE
PROPOSED PROFILE WILL BE EQUAL TO THAT OF THE EXIST. AFTER MILLING AND RESURFACING
℄ CONSTRUCTION & R/W GRE-US 42
EXIST. 54" STORM
STA. +68.15
INVERT 811.36
76+00
77+00
78+00
79+00
80+00

0 10 20 40
HORIZONTAL SCALE IN FEET

CALCULATED ABH
CHECKED JDO

PLAN AND PROFILE STA. 75+25 TO STA. 80+25

GRE-42-3.15

14 / 73

ahenders 1/17/2020 8:31:25 AM Sheet

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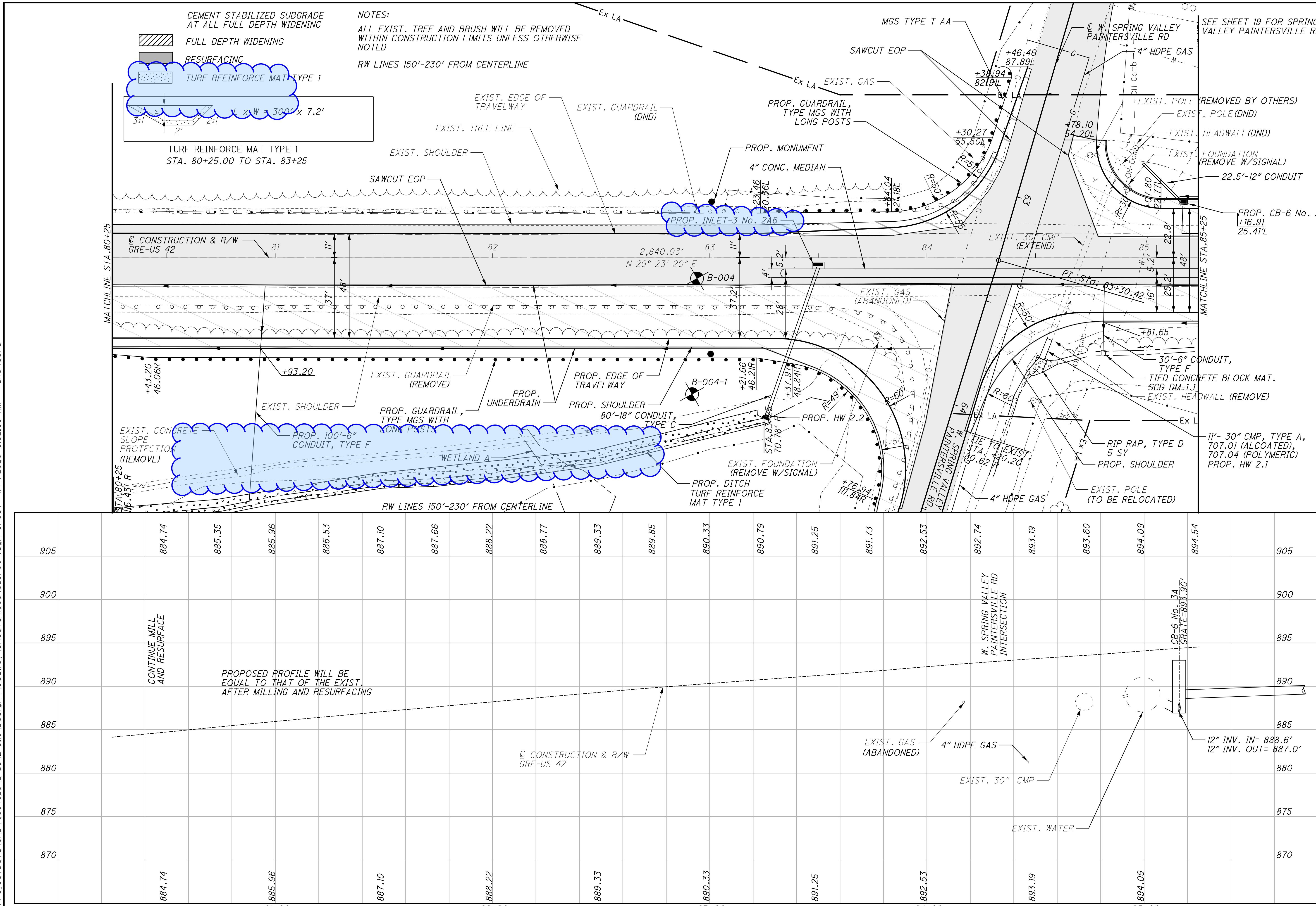


CALCULATED ABH
CHECKED JDO

PLAN AND PROFILE
STA. 80+25 TO STA. 85+25

GRE-42-3.15

ALL EXIST. TREE AND BRUSH WILL BE REMOVED
WITHIN THE CONSTRUCTION LIMITS UNLESS OTHERWISE NOTED

Ex LA
EXIST. WALL (DND)
EXIST. PARKLOT (DND)
CARRY OUT SHED
RES. BLDG
PROP. CONSTR. LIMITS
PROP. 32.5'-12" CONDUIT
EXIST. TOP OF BANK
PROP. EDGE OF TRAVELWAY
PROP. CB-5 No. 3A
PROP. CURB TYPE 4B
PROP. 220'-12" CONDUIT TYPE B
BEGIN TAPER +44.75 22.76' L
+78.53 32.83' L
END TAPER +94.75 10.76' L
PROP. CB-4 No. 4
PROP. UNDERDRAIN
BEGIN 10' CURB TAPER
END CURB +67.29 10.56' L
EXIST. DITCH (DND)
EXIST. SHOULDER
EXIST. EDGE OF TRAVELWAY
B-005-1
B-005
B-007
B-007-1
MATCHLINE STA.85+25
MATCHLINE STA.90+25
22.8'
48'
25.2'
10.8'
36'
+42.01 25.76' L
86
87
88
89
90
2,840.03'
N 29° 23' 20" E
℄ CONSTRUCTION & R/W GRE US 42
STA. +33.81 7.20 R
PROP. DITCH
SAWCUT EOP
PROP. UNDERDRAIN
EXIST. EDGE OF TRAVELWAY
EXIST. SHOULDER
PROP. EDGE OF TRAVELWAY
PROP. SHOULDER
PROP. CONSTR. LIMITS
B-007-1

RESURFACING
FULL DEPTH WIDENING
CEMENT STABILIZED SUBGRADE AT ALL FULL DEPTH WIDENING

RW LINES 150'-230' FROM CENTERLINE

894.93	895.33	895.81	896.20	896.57	896.93	897.26	897.59	897.92	898.23	898.55	898.86	899.16	899.42	899.70	899.98	900.22	900.48	900.70	900.91

915 910 905 900 895 890 885 880

CONTINUE MILL AND RESURFACE
PROPOSED PROFILE WILL BE EQUAL TO THAT OF THE EXIST. AFTER MILLING AND RESURFACING
CB No. 3A GRATE=897.40'
CB No. 4 GRATE=896.23'
℄ CONSTRUCTION & R/W GRE-US 42
32.5'-12" CONDUIT TYPE B @2%
220'-12" CONDUIT TYPE B @2%
12" INV. OUT= 894.00'
12" INV. IN= 893.35'
12" INV. OUT= 893.00'

894.93	895.81	896.57	897.26	897.92	898.55	899.16	899.70	900.22	900.70

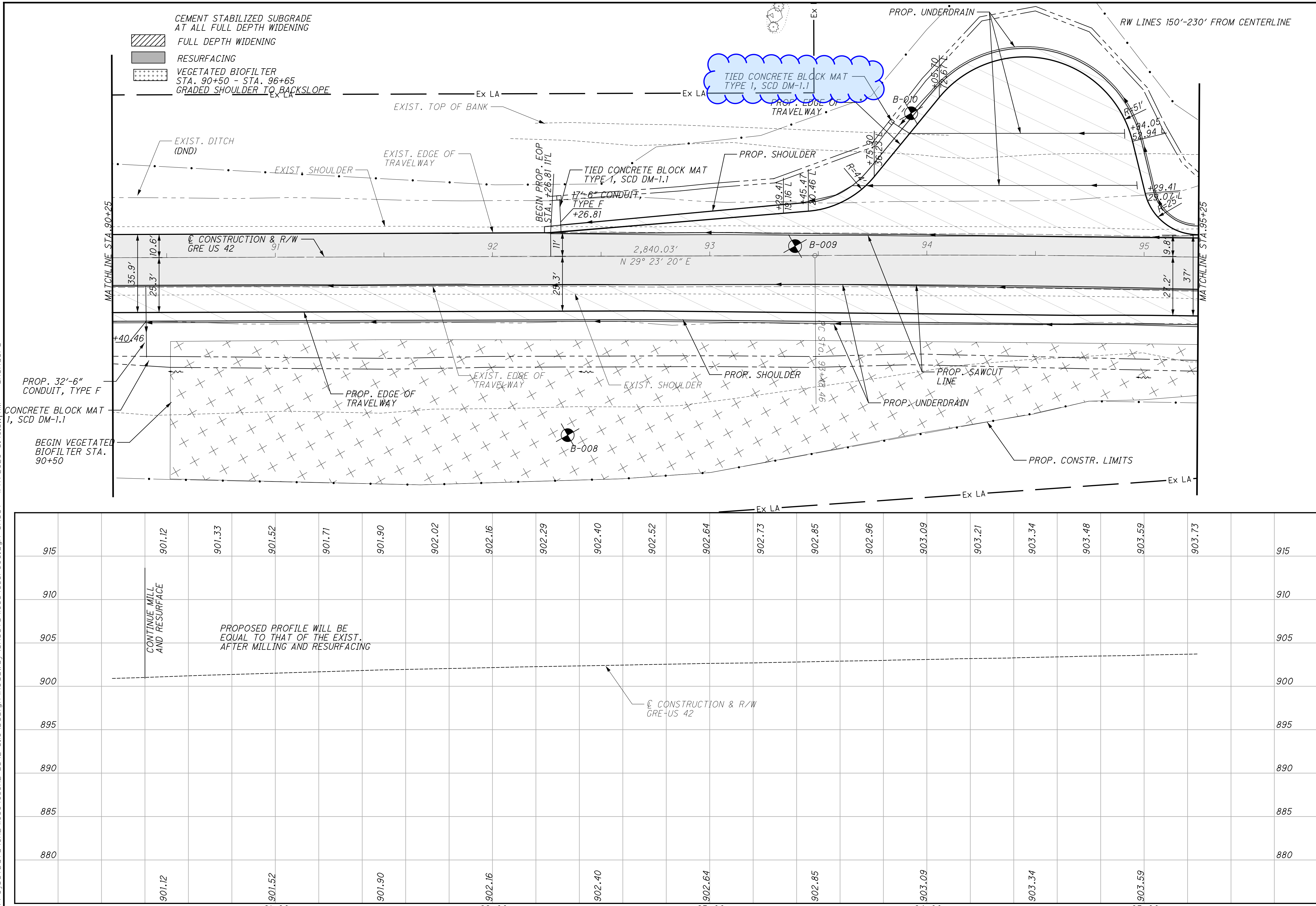
86+00 87+00 88+00 89+00 90+00

HORIZONTAL SCALE IN FEET
0 10 20 40
CALCULATED ABH CHECKED JDO

PLAN AND PROFILE
STA. 85+25 TO STA. 90+25
GRE-42-3.15

16
73

I:\ProjectData\GRE\08640_GRE-US42-3.6\Design\Roadway\Sheets\08640_GP005.dgn Sheet 1/17/2020 5:49:30 AM ahenders



CALCULATED ABH
CHECKED JDO

PLAN AND PROFILE STA. 90+25 TO STA. 95+25

GRE-42-3.15

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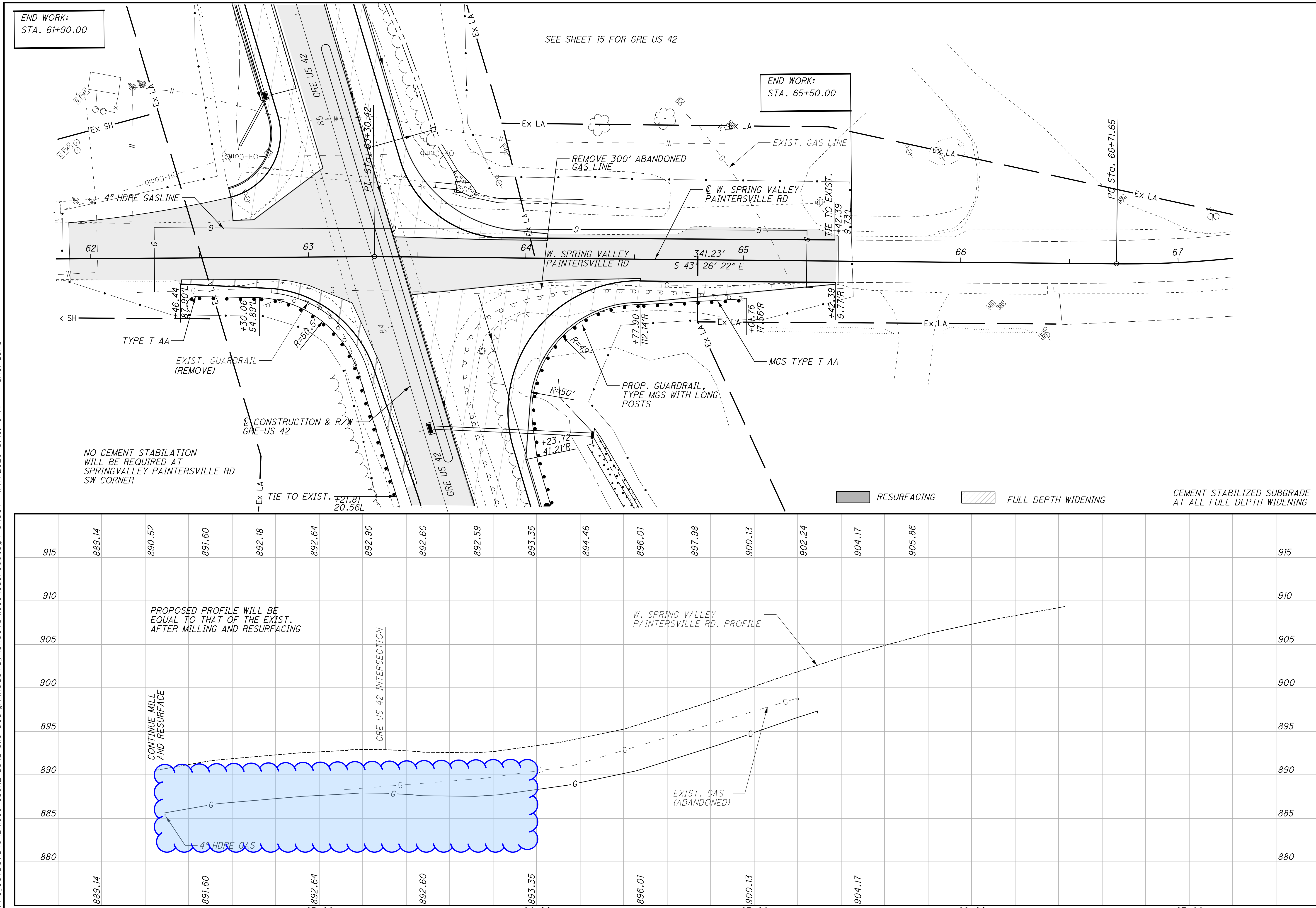


HORIZONTAL SCALE IN FEET

CALCULATED ABH
CHECKED JDO

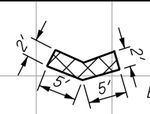
PLAN AND PROFILE SPRING VALLEY PAINTERSVILLE RD

STA. 62+25.00 TO STA 65+50.00

GRE-42-3.15

SEEDING

END WIDTH	SQ. YDS.



EXCAVATION AND BACKFILL

ITEM 206 - CEMENT STABILIZED SUBGRADE, 12" DEEP

EXIST. R/W LINE IS 160' TO 230' FROM CENTERLINE

MASONRY COLLAR

CB 3

10'-18" CONDUIT, TYPE F, 707.05 TYPE C

IN 12"=871.0
OUT 18"=869.0

878.22
78+00.00 R1

865

7'-18" TYPE B

2.0:1

855

102'-18" CONDUIT, TYPE F, 707.05 TYPE C

845

BEGIN LOON WIDENING
BEGIN CURB

835

5.5'-18" CONDUIT, TYPE F, 707.05 TYPE C

822.1

RIP RAP, TYPE D
8' x 6.5'

HW = 2
W x H x T=
3' x 3'-3" x 12"

BEGIN PIPE

877.51
77+75.00 R1

865

855

845

835

825

2.0:1

819.8

EXIST. PAVED GUTTER (TYP)
(DND)

END AREA		VOLUME	
CUT	FILL	CUT	FILL
12	434		
		11	354
11	331		
		11	295

CALCULATED ABH
CHECKED JDO

CROSS SECTIONS - U.S. 42
STA. 77+75.00 R1 TO STA. 78+00.00 R1

GRE-42-3.15

30
73

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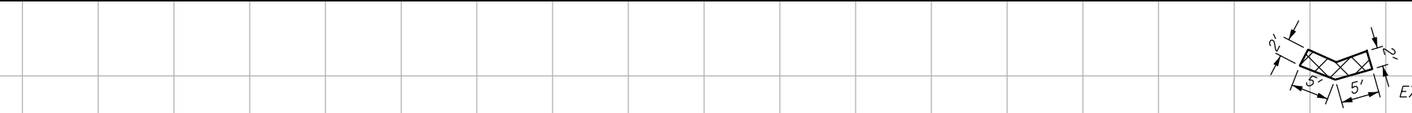
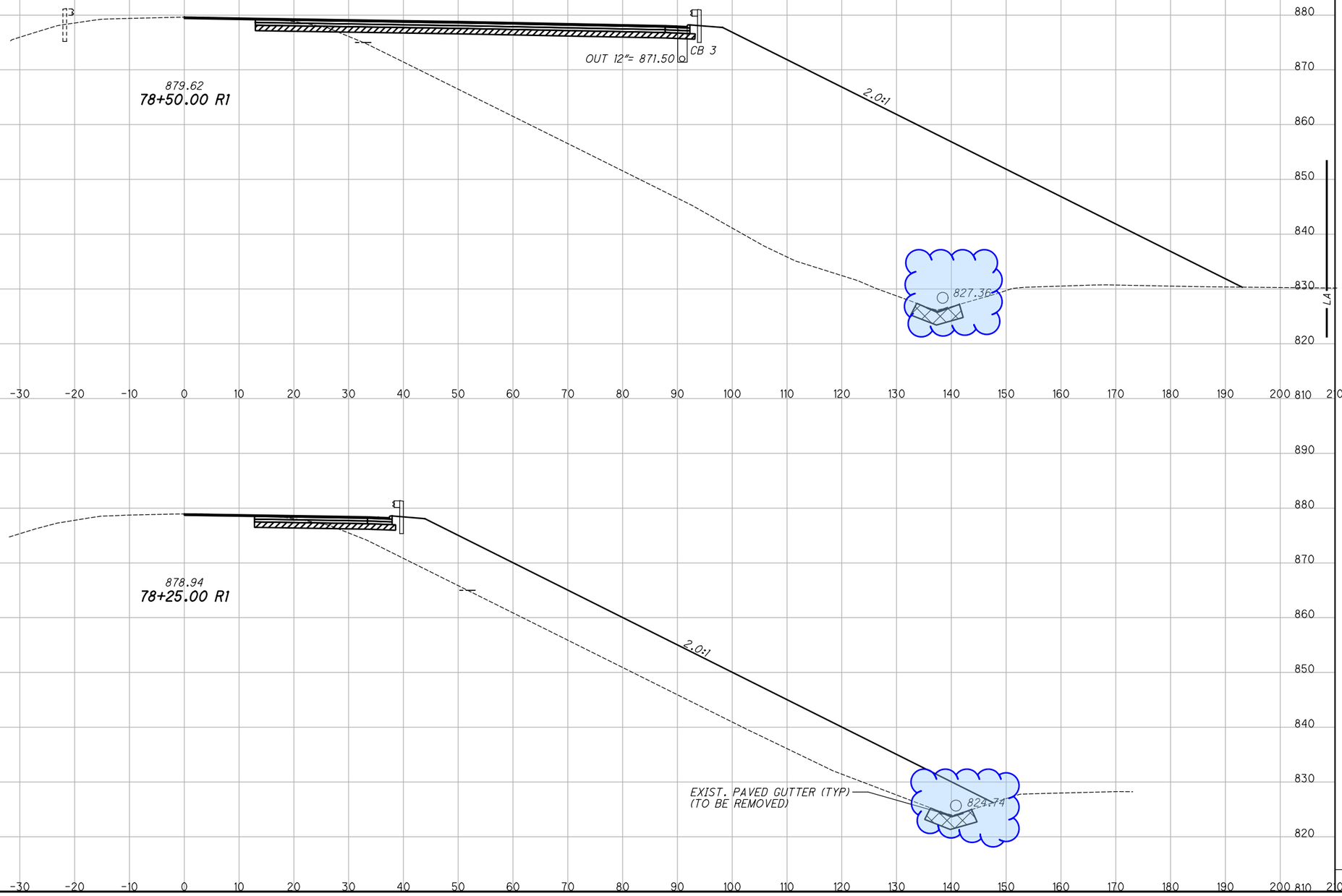
SEEDING	
END WIDTH	SQ. YDS.



EXCAVATION AND BACKFILL

ITEM 206 - CEMENT STABILIZED SUBGRADE, 12" DEEP

EXIST. R/W LINE IS 160' TO 230' FROM CENTERLINE



END AREA		VOLUME	
CUT	FILL	CUT	FILL
12	3459		
		11	2046
12	960		
		11	645

CALCULATED ABH
CHECKED JDO

CROSS SECTIONS - U.S. 42
STA. 78+25.00 R1 TO STA. 78+50.00 R1

GRE-42-3.15

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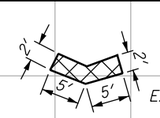
SEEDING	
END WIDTH	SQ. YDS.



EXCAVATION AND BACKFILL

ITEM 206 - CEMENT STABILIZED SUBGRADE, 12" DEEP

EXIST. R/W LINE IS 160' TO 230' FROM CENTERLINE

880.92
79+00.00 R1

2.0:1

832.60

LA

880.26
78+75.00 R1

2.0:1

EXIST. PAVED GUTTER (TYP)
(TO BE REMOVED)

829.98

LA

END AREA		VOLUME	
CUT	FILL	CUT	FILL
12	3646		
		10	3475
9	3860		
		10	3388

CALCULATED ABH
CHECKED JDO

CROSS SECTIONS - U.S. 42
STA. 78+75.00 R1 TO STA. 79+00.00 R1

GRE-42-3.15

32
73

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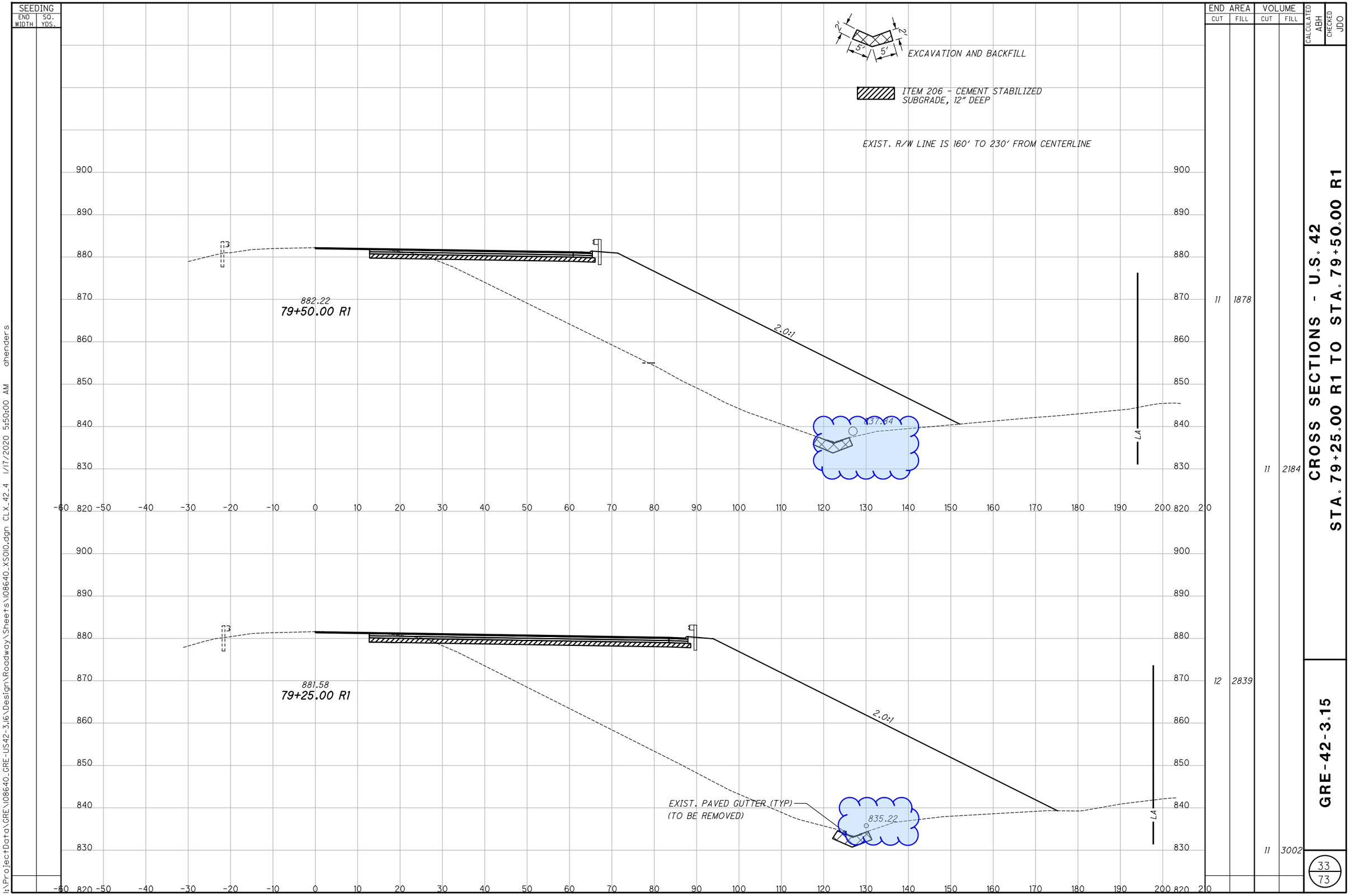
SEEDING	
END WIDTH	SQ. YDS.



END AREA		VOLUME	
CUT	FILL	CUT	FILL
11	1878		
		11	2184
12	2839		
		11	3002

CALCULATED ABH
CHECKED JDO

CROSS SECTIONS - U.S. 42
STA. 79+25.00 R1 TO STA. 79+50.00 R1

GRE-42-3.15

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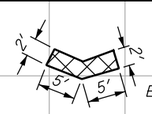
SEEDING	
END WIDTH	SQ. YDS.



EXCAVATION AND BACKFILL

ITEM 206 - CEMENT STABILIZED SUBGRADE, 12" DEEP

EXIST. R/W LINE IS 160' TO 230' FROM CENTERLINE

END LOON WIDENING

883.51
80+00.00 R1

882.87
79+75.00 R1

843.08

840.46

2.0:1

EXIST. PAVED GUTTER (TYP)
(TO BE REMOVED)

LA

END AREA		VOLUME	
CUT	FILL	CUT	FILL
11	796		
		10	848
11	1036		
		11	1349

CALCULATED ABH
CHECKED JDO

CROSS SECTIONS - U.S. 42
STA. 79+75.00 R1 TO STA. 80+00.00 R1

GRE-42-3.15

34
73

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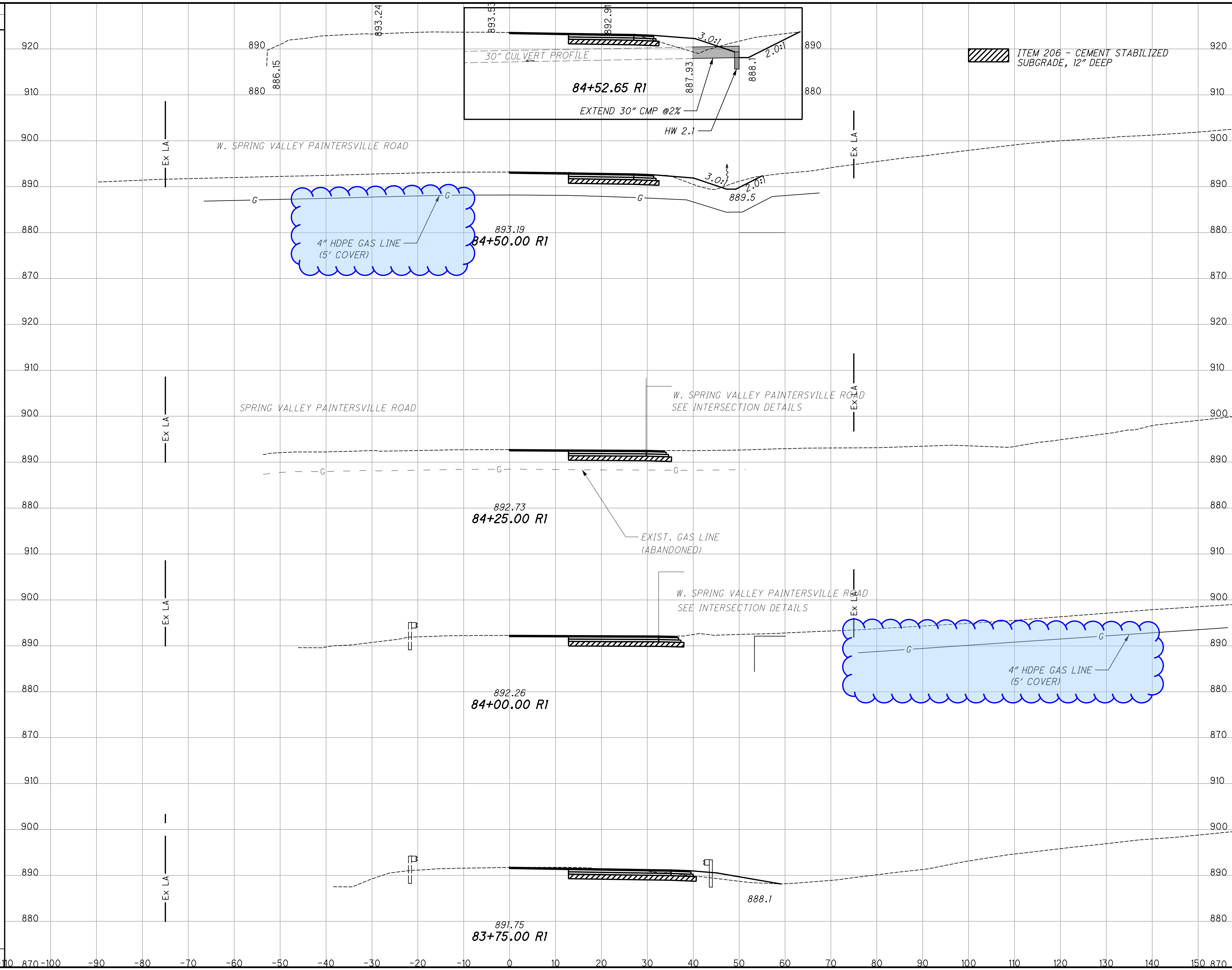
SEEDING	
END WIDTH	SQ. YDS.



END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
27	5		
		13	2
0	0		
		0	0
0	0		
		15	0
32	17		
		23	59

CALCULATED ABH
CHECKED JDO

CROSS SECTIONS - U.S. 42
STA. 83+75.00 R1 TO STA. 84+50.00 R1

GRE-42-3.15

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SEEDING	
END WIDTH	SQ. YDS.

ITEM 206 - CEMENT STABILIZED SUBGRADE, 12" DEEP

EMBANKMENT = 22,767 CY
EXCAVATION = 18,304 CY

905.23
100+00.00 R1

TIE TO EXIST. SHOULDER

4.0:1

905.16
99+75.00 R1

END AREA		VOLUME	
CUT	FILL	CUT	FILL
0	6		
		0	6
0	6		
		4	4

CALCULATED ABH
CHECKED JDO

CROSS SECTIONS
STA. 99+75.00 R1 TO STA. 100+00.00 R1

GRE-42-03.15

59
73

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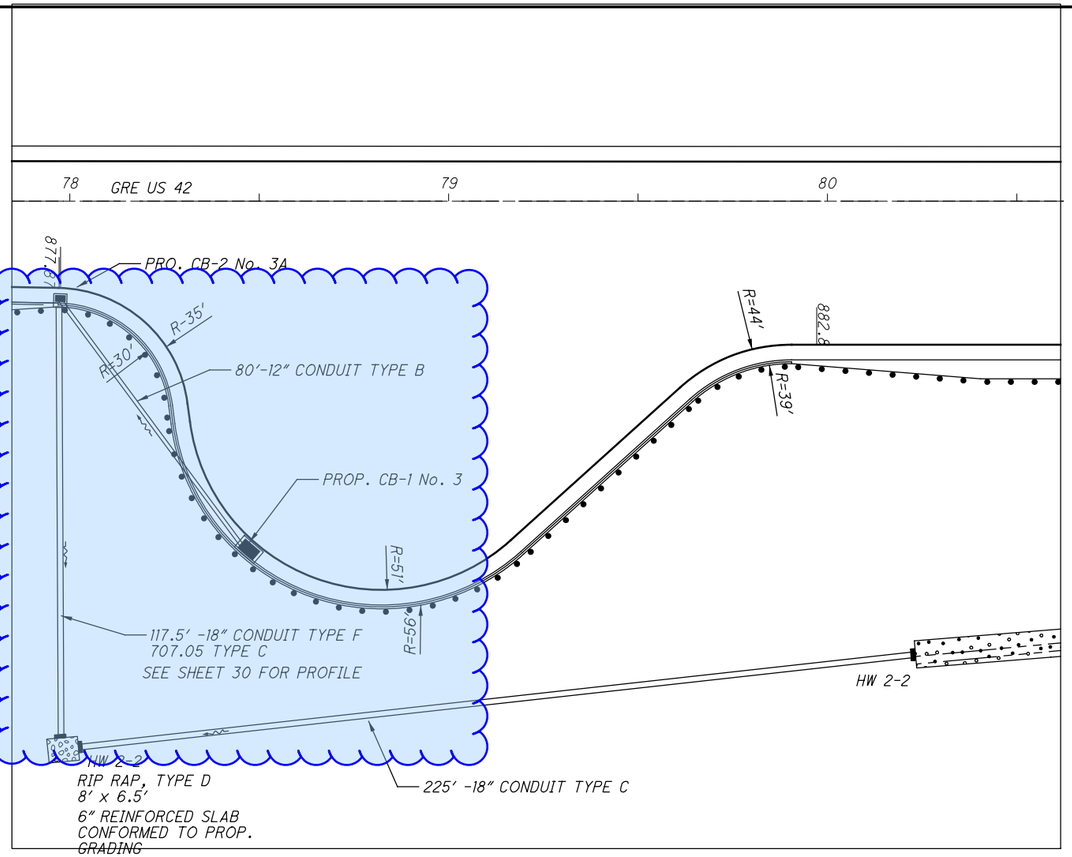
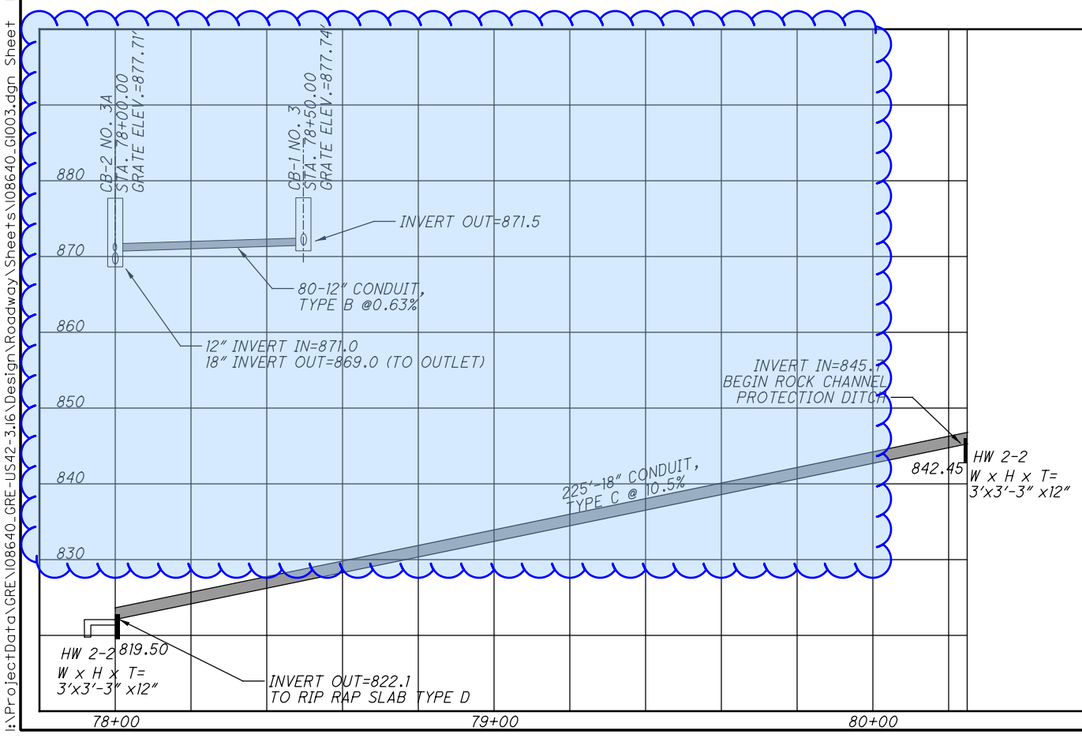




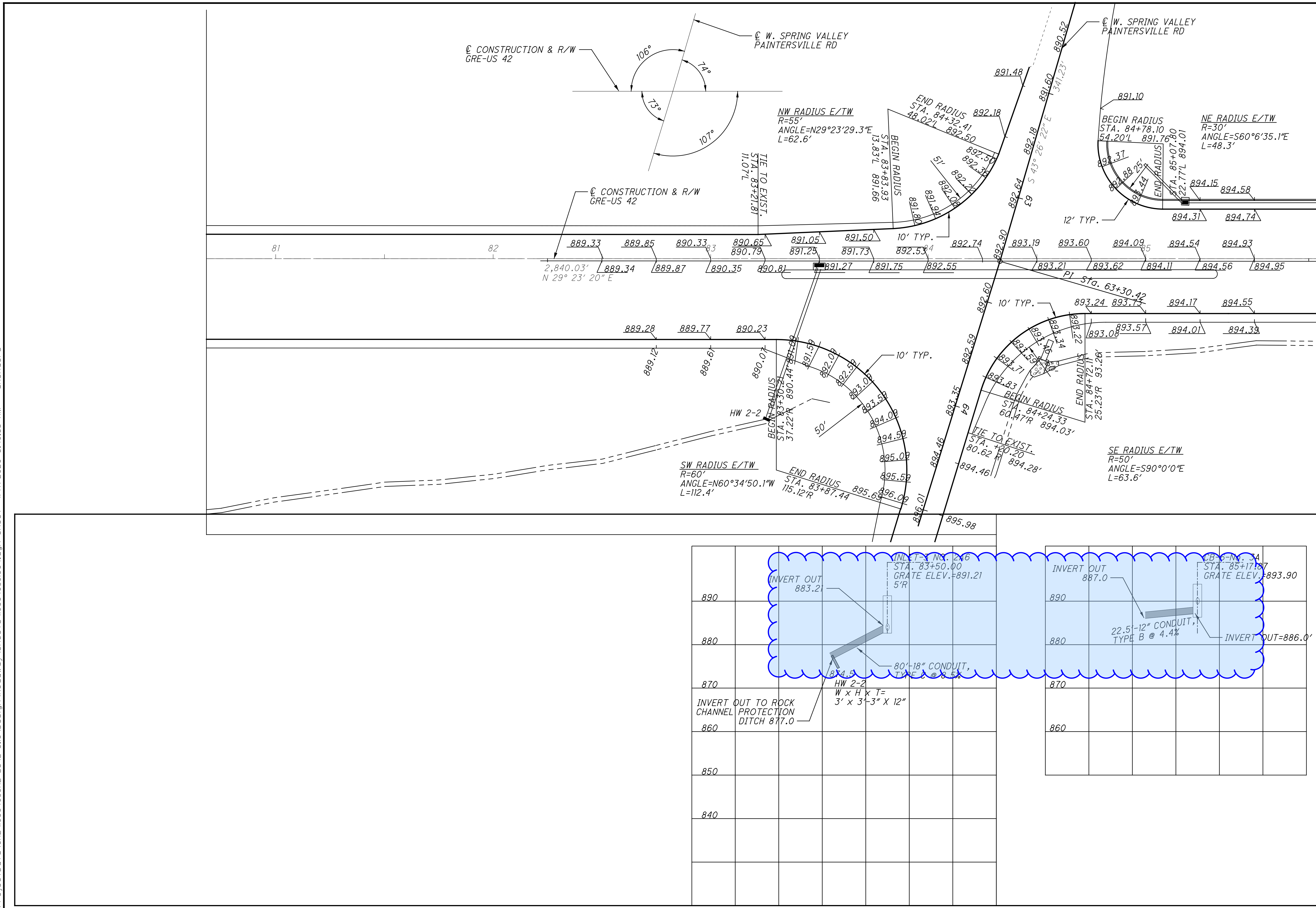
I:\ProjectData\GRE\08640_GRE-US42-3.16\Design\Roadway\Sheets\08640_G003.dgn Sheet 1/17/2020 5:49:54 AM dhenders

HORIZONTAL SCALE IN FEET
0 10 20 40

CALCULATED ABH
CHECKED JDO

DRAINAGE DETAIL
INTERSECTION DETAIL

GRE-42-3.15



℄ CONSTRUCTION & R/W
GRE-US 42
℄ W. SPRING VALLEY
PAINTERSVILLE RD
106°
74°
73°
107°
NW RADIUS E/TW
R=55'
ANGLE=N29°23'29.3"E
L=62.6'
NE RADIUS E/TW
R=30'
ANGLE=S60°6'35.1"E
L=48.3'
SW RADIUS E/TW
R=60'
ANGLE=N60°34'50.1"W
L=112.4'
SE RADIUS E/TW
R=50'
ANGLE=S90°0'0"E
L=63.6'
TIE TO EXIST.
STA. 83+21.81
11.07'L
BEGIN RADIUS
STA. 83+83.93
13.83'L 891.66
END RADIUS
STA. 84+32.41
48.02'L 892.50
BEGIN RADIUS
STA. 84+78.10
54.20'L 891.76
END RADIUS
STA. 85+07.80
22.77'L 894.01
BEGIN RADIUS
STA. 83+30.21
37.22'R 890.44'
END RADIUS
STA. 83+87.44
115.12'R 895.69
BEGIN RADIUS
STA. 84+24.33
60.47'R 894.03'
END RADIUS
STA. 84+72.11
25.23'R 93.26'
TIE TO EXIST.
STA. +80.20
80.62'R 894.28'
PI Sta. 63+30.42
2,840.03'
N 29° 23' 20" E
S 43° 26' 22" E
341.23'
10' TYP.
12' TYP.
HW 2-2
50'
51'
INLET-3 NO. 2-6
STA. 83+50.00
GRATE ELEV.=891.21
5'R
INVERT OUT
883.21
80'-18" CONDUIT,
TYPE C @ 8.5%
874.5
HW 2-2
W x H x T=
3' x 3'-3" X 12"
INVERT OUT TO ROCK
CHANNEL PROTECTION
DITCH 877.0
CB-6 NO. 34
STA. 85+17.87
GRATE ELEV.=893.90
INVERT OUT
887.0
22.5'-12" CONDUIT,
TYPE B @ 4.4%
INVERT OUT=886.0'
890
880
870
860
850
840
83+00
84+00

HORIZONTAL SCALE IN FEET

0 10 20 40

CALCULATED ABH

CHECKED JDO

DRAINAGE DETAIL
INTERSECTION DETAIL

GRE-42-3.15

60B
73

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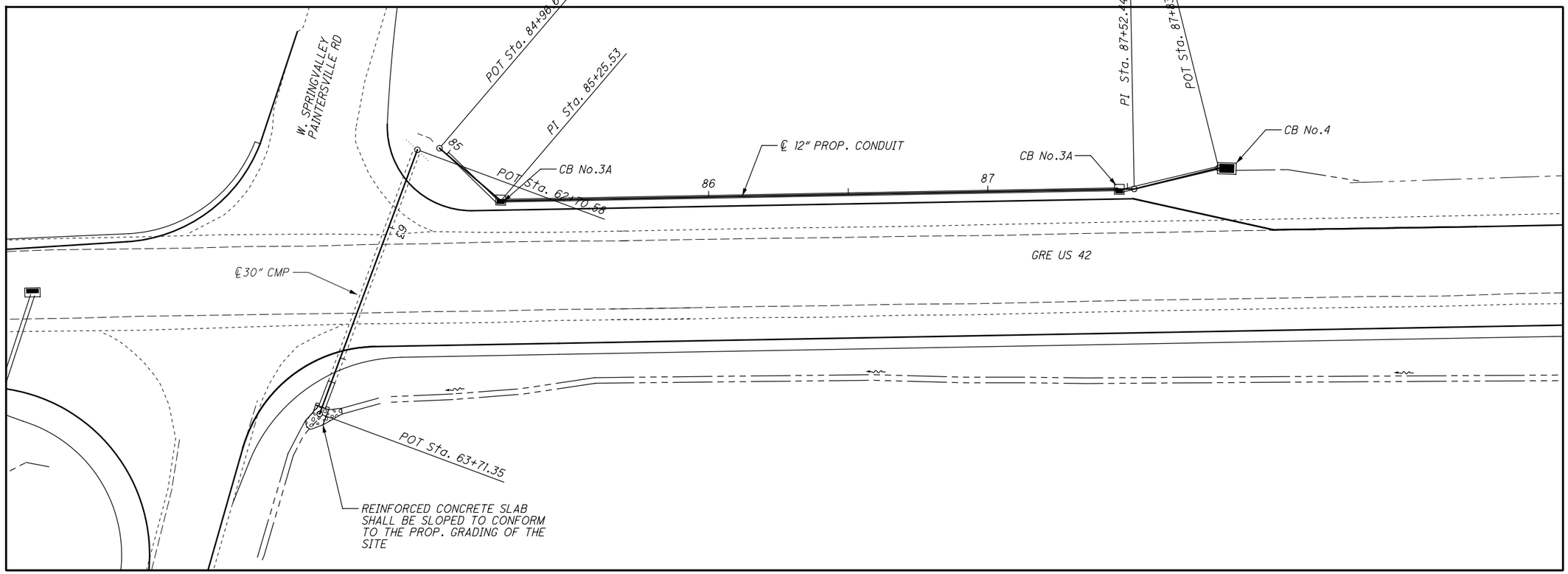

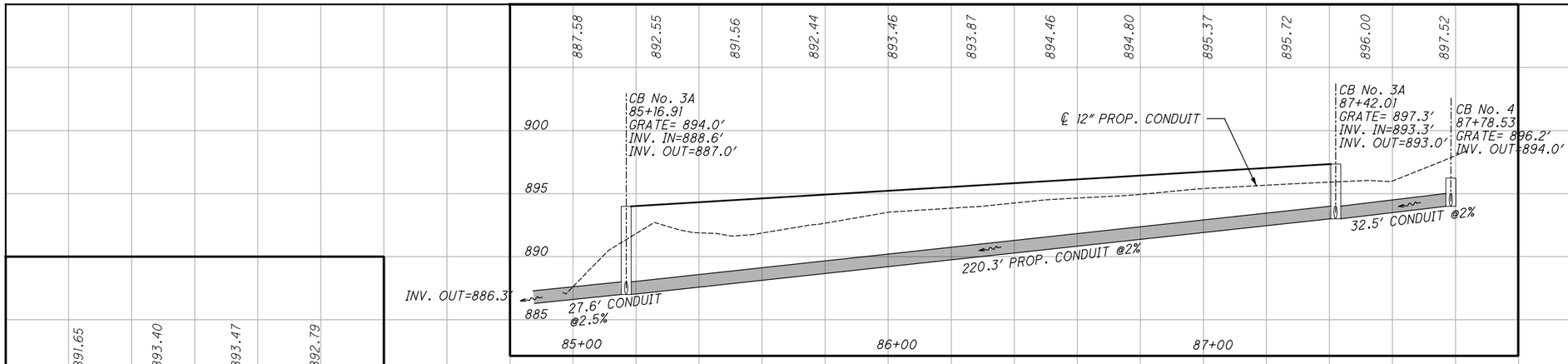

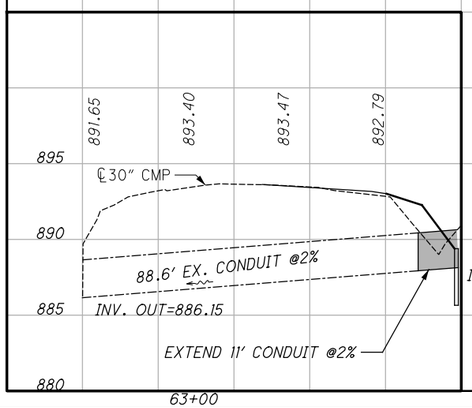

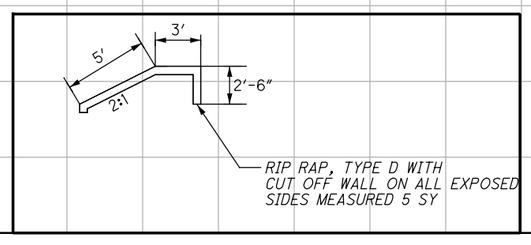

CALCULATED ABH
CHECKED TRB

DRAINAGE DETAIL

GRE-42-3.15

61
73

I:\ProjectData\GRE\108640_GRE-US42-3.16\Design\Drainage\Sheets\108640_DP001.dgn Sheet 1/17/2020 5:50:04 AM ahenders

SHEET NO.	REFERENCE NO.	LOCATION	STATION FROM	STATION TO	SIDE	644 CENTERLINE	644 EDGE LINE 6" (yellow)	644 EDGE LINE, 6" (white)	644 RUMBLE STRIPE	644 CHANNELIZING LINE, 12"	644 STOP LINE, 24"	644 LANE ARROW	644 WORDS ONLY	644 LANE LINE	621 RPM (YELLOW-YELLOW)	621 RPM (WHITE)	644 TRANSVERSE LINE	620 DELINEATOR, MISC. TYPE C WHITE	620 DELINEATOR, MISC. SURFACE MOUNTED, YELLOW	621 RAISED PAVEMENT MARKER REMOVED	202 REMOVE PAVEMENT MARKING
						MILE	MILE	MILE	MILE	FT	FT	EACH	EACH	MILE	EA	EA	FT	EA	EA	EA	FT
66	ELW-1	GRE US 42	72+50.00	84+05.58	L			0.22													
66	ELW-2	GRE US 42	72+50.00	83+95.60	R			0.22													
68	ELW-3	GRE US 42	84+69.95	95+62.70	L			0.21													
68	ELW-4	GRE US 42	84+77.10	99+66.63	R			0.28													
71	ELW-5	GRE US 42	96+05.44	99+66.63	L			0.07													
66	CL-1	GRE US 42	72+50.00	78+52.00	R	0.11									16						
66	CL-2	GRE US 42	72+97.25	78+30.61	R	0.10									14						
67	CL-3	GRE US 42	79+00.00	83+29.14	R	0.08									11						
68	CL-4	GRE US 42	85+38.00	94+44.44	R	0.17									24						
68	CL-5	GRE US 42	85+38.00	91+10.76	R	0.11									15						
71	CL-6	GRE US 42	96+32.77	113+47.34	R	0.32									45						
71	CL-7	GRE US 42	96+32.77	100+00.00		0.07									10						
71	CL-8	GRE US 42	94+95.73	95+50.44		0.01									1						
66	RS-1	GRE US 42	72+96.86	83+83.83	L				0.21												
67	RS-2	GRE US 42	72+96.86	77+99.81	R				0.10												
68	RS-3	GRE US 42	79+93.33	83+30.16	R				0.06												
69	RS-4	GRE US 42	84+72.11	99+61.64	R				0.28												
70	RS-5	GRE US 42	88+67.29	92+26.82	L				0.07												
71	RS-6	GRE US 42	96+55.47	99+60.66	L				0.06												
68	ELY-1	GRE US 42	83+34.59	85+38.01	R		0.04														
68	ELY-2	GRE US 42	83+34.59	85+38.01	R		0.04														
67	CH-1	GRE US 42	80+74.15	83+34.47	R					260.32						7					
68	CH-2	GRE US 42	84+94.75	87+44.75	L					250.00						7					
70	CH-3	GRE US 42	91+60.86	95+50.44	R					389.58											
67	CH-4	GRE US 42	78+50.00	82+00.00	R					350.00											
67	CT-1	GRE US 42															93				
69	CT-2	GRE US 42															311				
71	CT-3	GRE US 42															413				
					SUBTOTAL	0.98	0.08	0.99	0.77	1250	32.00	16	2	0.07	136	14	817.00	30.00	10	35	1300

CALCULATED ABH
CHECKED TCS

PAVEMENT MARKINGS SUBSUMMARY

GRE-42-3.15

I:\ProjectData\GRE\08640_GRE-US42-3.16\Design\Roadway\Traffic\Sheets\08640_TS001.dgn Sheet 1/17/2020 5:50:04 AM ahenders

SHEET NO.	REFERENCE NO.	LOCATION	STATION FROM	STATION TO	SIDE	644 CENTERLINE	644 EDGE LINE 6" (yellow)	644 EDGE LINE, 6" (white)	644 RUMBLE STRIP	644 CHANNELIZING LINE, 12"	644 STOP LINE, 24"	644 LANE ARROW	644 WORDS ONLY	644 LANE LINE	621 RPM (YELLOW-YELLOW)	621 RPM (WHITE)	644 TRANSVERSE LINE	620 DELINEATOR, MISC. TYPE C WHITE	620 DELINEATOR, MISC. SURFACE MOUNTED, YELLOW	621 RAISED PAVEMENT MARKER REMOVED	202 REMOVE PAVEMENT MARKING
						MILE	MILE	MILE	MILE	FT	FT	EACH	EACH	MILE	EA	EA	FT	EA	EA	EA	FT
66	ELW-1	GRE US 42	72+50.00	84+05.58	L			0.22													
66	ELW-2	GRE US 42	72+50.00	83+95.60	R			0.22													
68	ELW-3	GRE US 42	84+69.95	95+62.70	L			0.21													
68	ELW-4	GRE US 42	84+77.10	99+66.63	R			0.28													
71	ELW-5	GRE US 42	96+05.44	99+66.63	L			0.07													
66	CL-1	GRE US 42	72+50.00	78+52.00	R	0.11									16						
66	CL-2	GRE US 42	72+97.25	78+30.61	R	0.10									14						
67	CL-3	GRE US 42	79+00.00	83+29.14	R	0.08									11						
68	CL-4	GRE US 42	85+38.00	94+44.44	R	0.17									24						
68	CL-5	GRE US 42	85+38.00	91+10.76	R	0.11									15						
71	CL-6	GRE US 42	96+32.77	113+47.34	R	0.32									45						
71	CL-7	GRE US 42	96+32.77	100+00.00		0.07									10						
71	CL-8	GRE US 42	94+95.73	95+50.44		0.01									1						
66	RS-1	GRE US 42	72+96.86	83+83.83	L				0.21												
67	RS-2	GRE US 42	72+96.86	77+99.81	R				0.10												
68	RS-3	GRE US 42	79+93.33	83+30.16	R				0.06												
69	RS-4	GRE US 42	84+72.11	99+61.64	R				0.28												
70	RS-5	GRE US 42	88+67.29	92+26.82	L				0.07												
71	RS-6	GRE US 42	96+55.47	99+60.66	L				0.06												
68	ELY-1	GRE US 42	83+34.59	85+38.01	R		0.04														
68	ELY-2	GRE US 42	83+34.59	85+38.01	R		0.04														
67	CH-1	GRE US 42	80+74.15	83+34.47	R					260.32						7					
68	CH-2	GRE US 42	84+94.75	87+44.75	L					250.00						7					
70	CH-3	GRE US 42	91+60.86	95+50.44	R					389.58											
67	CH-4	GRE US 42	78+50.00	82+00.00	R					356.00											
67	CT-1	GRE US 42															93				
69	CT-2	GRE US 42															311				
71	CT-3	GRE US 42															413				
				SUBTOTAL		0.98	0.08	0.99	0.77	1250	32.00	16	2	0.07	136	14	817.00	30.00	10	35	1300
				TOTAL CARRIED TO THE GENERAL SUMMARY		0.98	0.08	0.99	0.77	1250	32.00	16	2	0.07	136	14	817.00	30.00	10	35	1300

CALCULATED ABH
CHECKED TCS

PAVEMENT MARKINGS SUBSUMMARY

GRE-42-3.15

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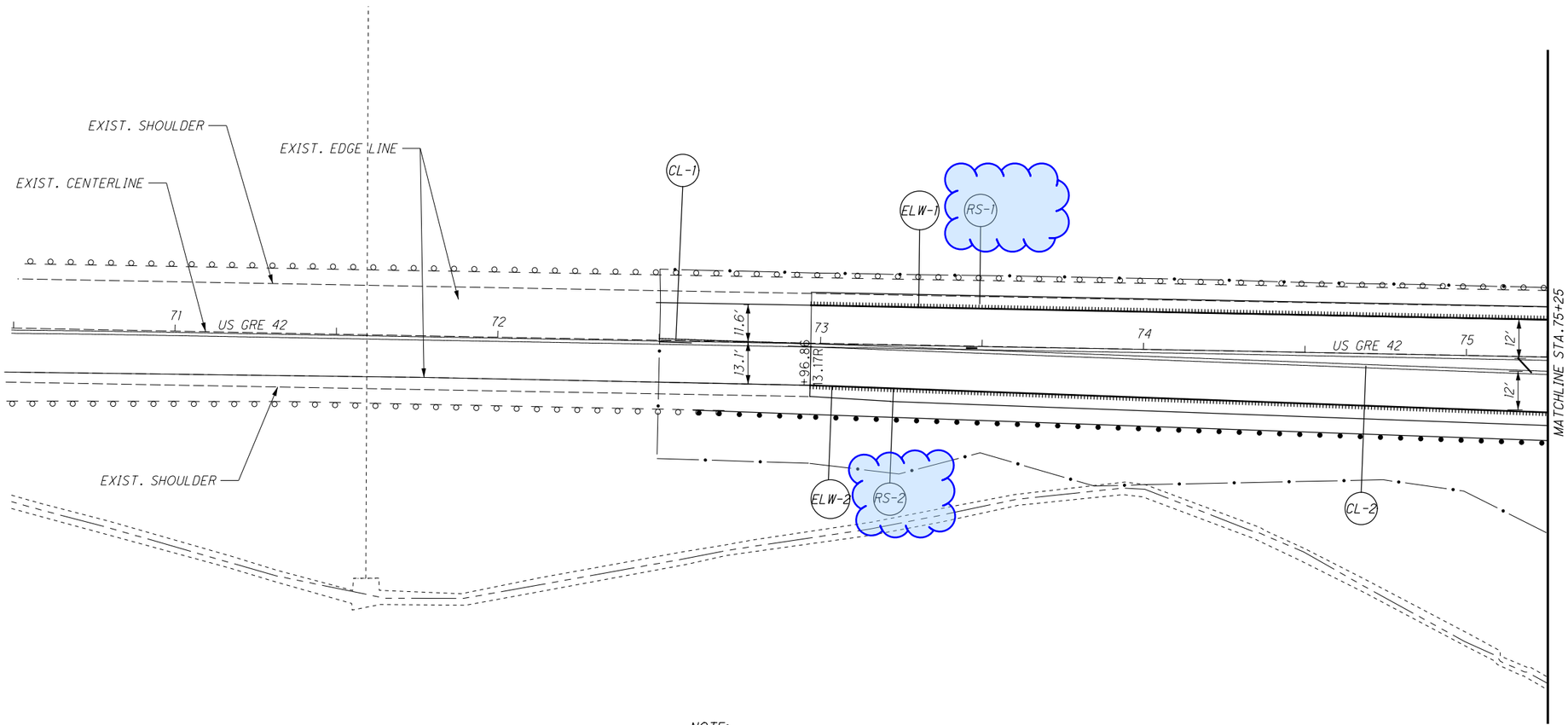


RW LINE 150'-230' FROM CENTERLINE

NOTE:
INSTALL RAISED PAVEMENT MARKERS ACCORDING TO SCD TC-65.10 AND TC-65.11

PAVEMENT MARKING LEGEND

DL	DOTTED LINE, 6" WHITE	LL	LANE LINE, 6" WHITE	CT	TRANSVERSE LINE	ON	ONLY MARKING
CH	CHANNELIZING LINE, 12" WHITE	ELY	EDGE LINE, 6" YELLOW	SL	STOP LINE	RS	RUMBLE STRIPE, EDGE LINE
CL	CENTERLINE, 4"	ELW	EDGE LINE, 6" WHITE	LA	LANE ARROW		

SIGN LEGEND

EXISTING	PROPOSED	REMOVED	RELOCATED
	STA. XX+XX		RELOCATED FROM STA. XX+XX TO STA. XX+XX

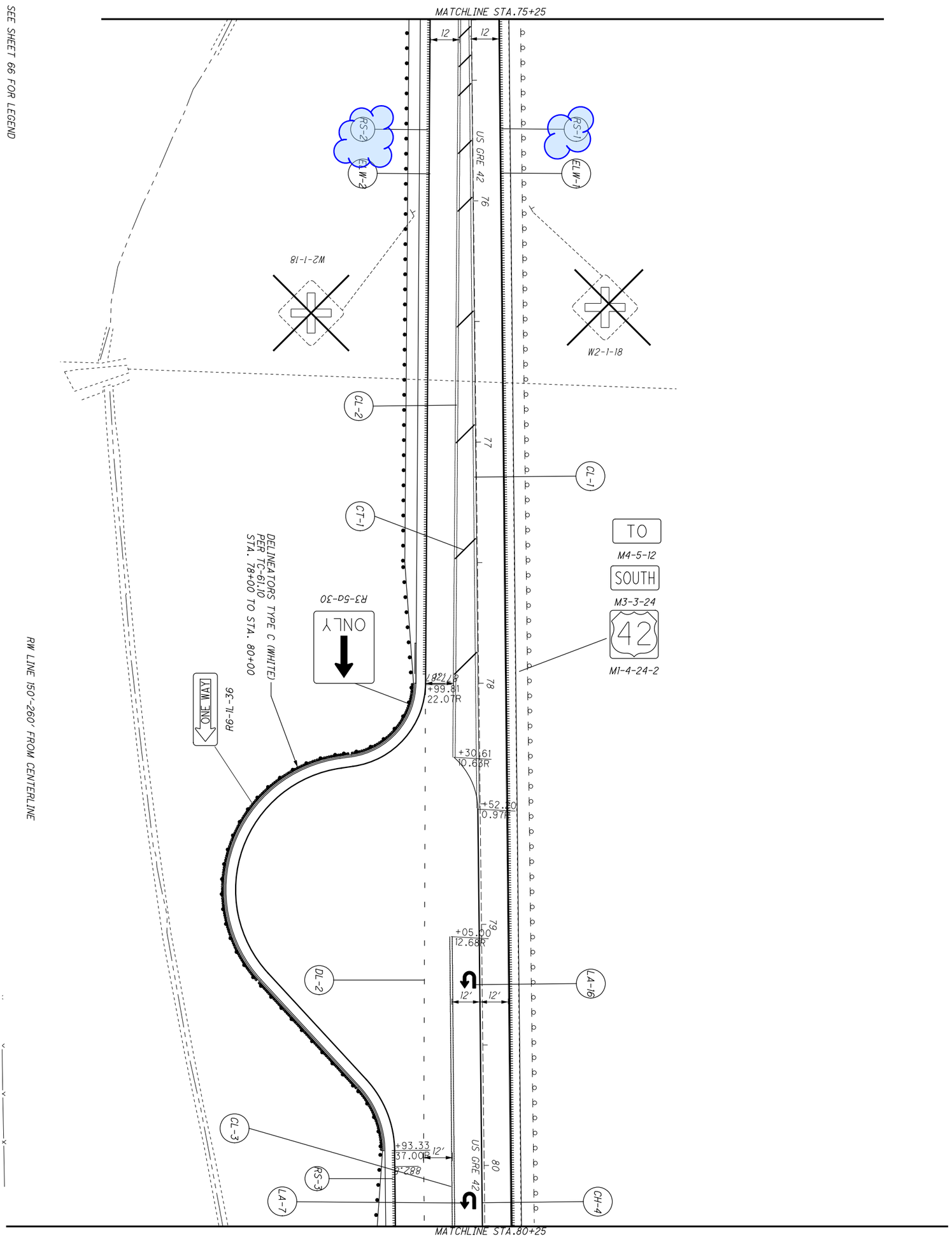
HORIZONTAL SCALE IN FEET
0 10 20 40

CALCULATED ABH
CHECKED TCS

SIGNING & PAVEMENT MARKING
STA. 70+00.00 TO STA. 75+25.00

GRE-42-3.15

C:\Projects\Traffic\Sheets\108640_TP002.dgn Sheet 1.17.2020 5:50:07 AM ahanders

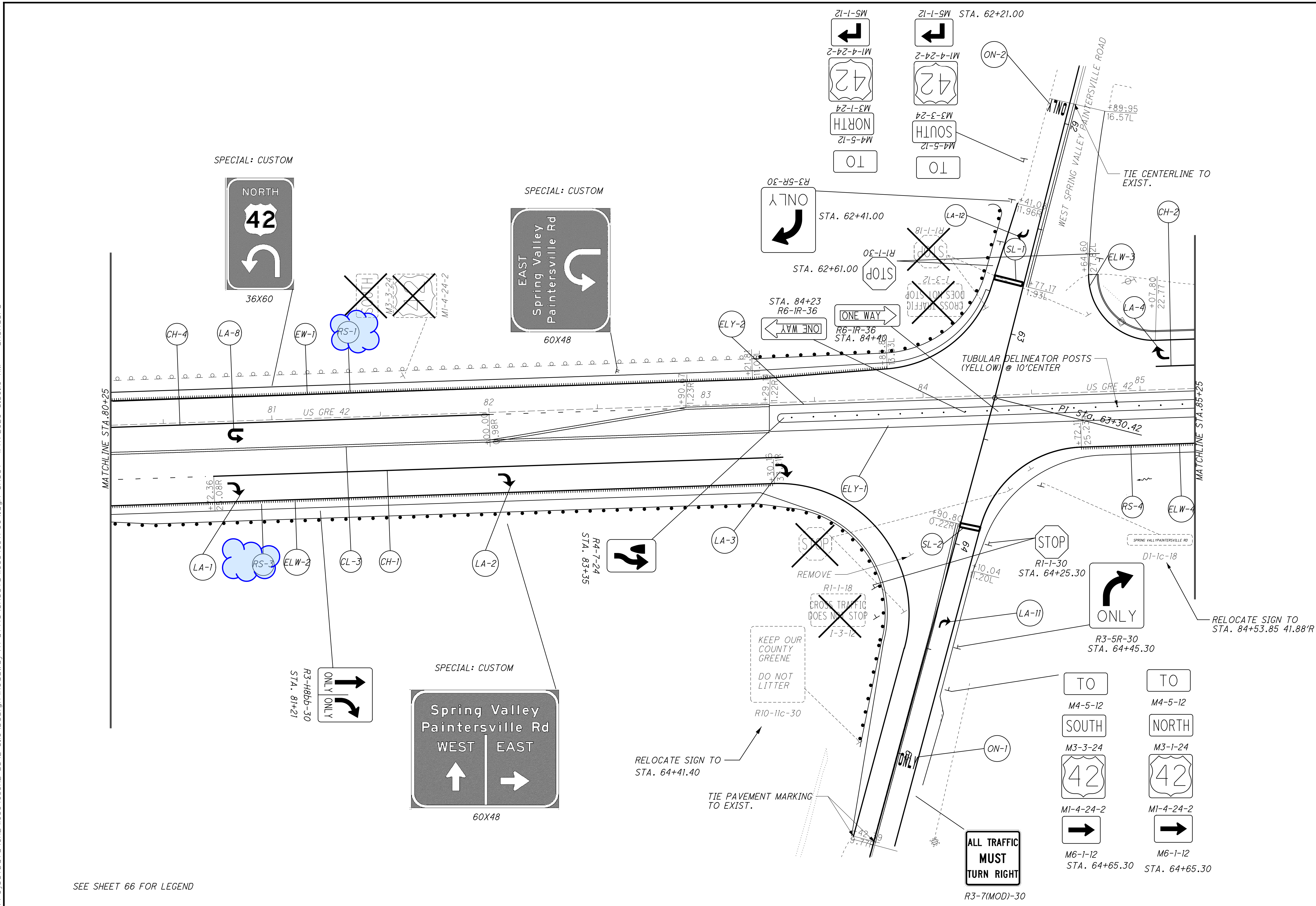


GRE-42-3.15

SIGNING & PAVEMENT MARKING
STA. 75+25.00 TO STA. 80+25.00

CALCULATED ABH
CHECKED TCS

0 10 20 40
HORIZONTAL SCALE IN FEET



SPECIAL: CUSTOM
NORTH 42
36X60
SPECIAL: CUSTOM
EAST Spring Valley Paintersville Rd
60X48
SPECIAL: CUSTOM
Spring Valley Paintersville Rd
WEST EAST
60X48
R3-H8bb-30
STA. 81+21
ONLY ONLY
R4-7-24
STA. 83+35
MATCHLINE STA.80+25
MATCHLINE STA.85+25
US GRE 42
WEST SPRING VALLEY PAINTERSVILLE ROAD
STA. 62+21.00
M5-1-12
M1-4-24-2
M3-1-24
NORTH
M4-5-12
TO
M3-3-24
SOUTH
R3-5R-30
ONLY
STA. 62+41.00
R1-1-30
STOP
STA. 62+61.00
STA. 84+23
R6-1R-36
ONE WAY
STA. 84+40
TIE CENTERLINE TO EXIST.
TUBULAR DELINEATOR POSTS (YELLOW) @ 10'CENTER
PI Sta. 63+30.42
REMOVE
R1-1-18
CROSS TRAFFIC DOES NOT STOP
I-3-12
KEEP OUR COUNTY GREENE
DO NOT LITTER
R10-11c-30
RELOCATE SIGN TO STA. 64+41.40
TIE PAVEMENT MARKING TO EXIST.
R1-1-30
STA. 64+25.30
R3-5R-30
STA. 64+45.30
SPRING VALLEY PAINTERSVILLE RD
D1-1c-18
RELOCATE SIGN TO STA. 84+53.85 41.88'R
ALL TRAFFIC MUST TURN RIGHT
R3-7(MOD)-30
M6-1-12
STA. 64+65.30

SEE SHEET 66 FOR LEGEND

HORIZONTAL SCALE IN FEET 0 10 20 40

CALCULATED ABH
CHECKED TCS

SIGNING & PAVEMENT MARKING
STA. 80+25.00 TO STA. 85+25.00

GRE-42-3.15

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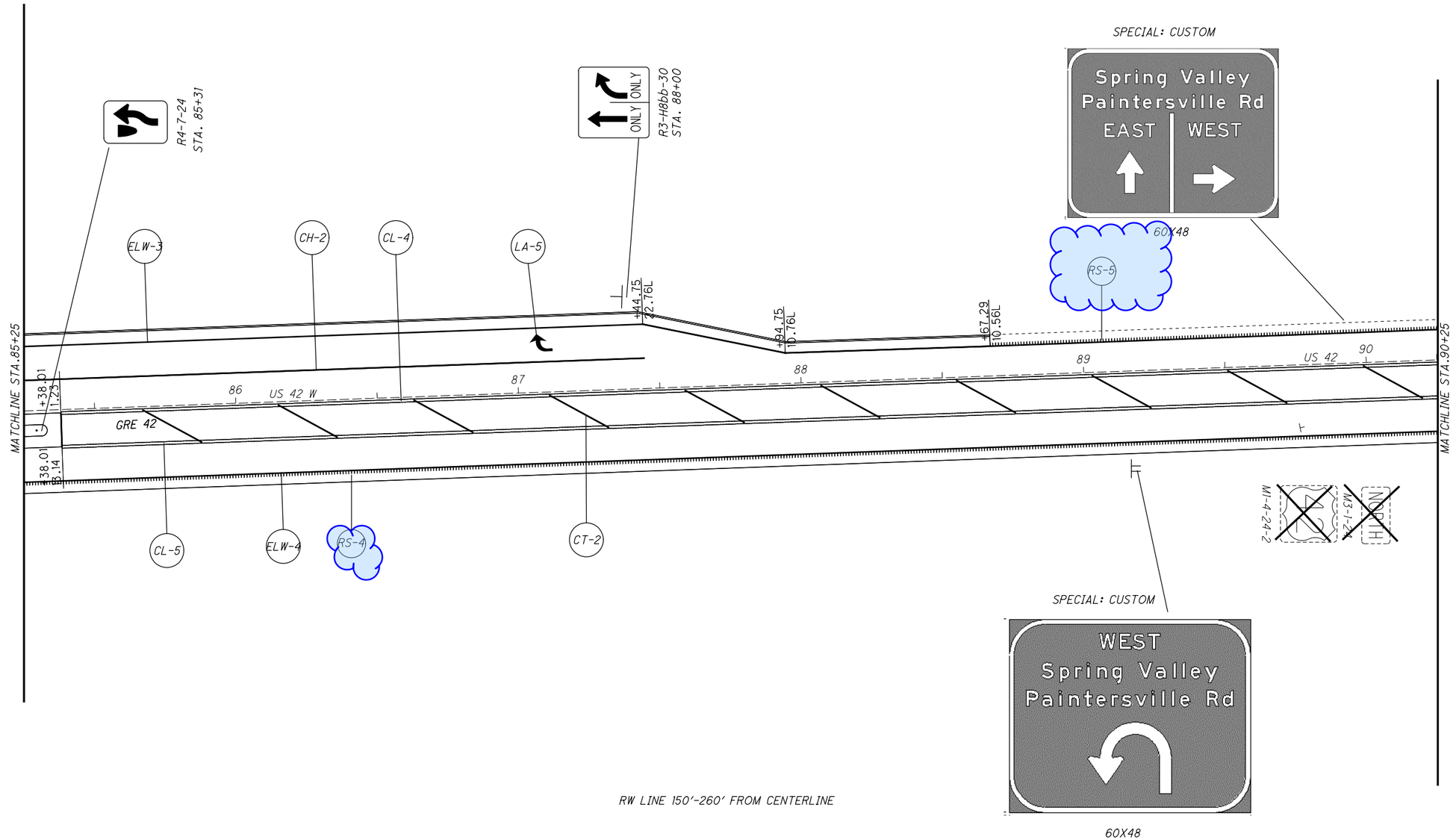


SEE SHEET 66 FOR LEGEND

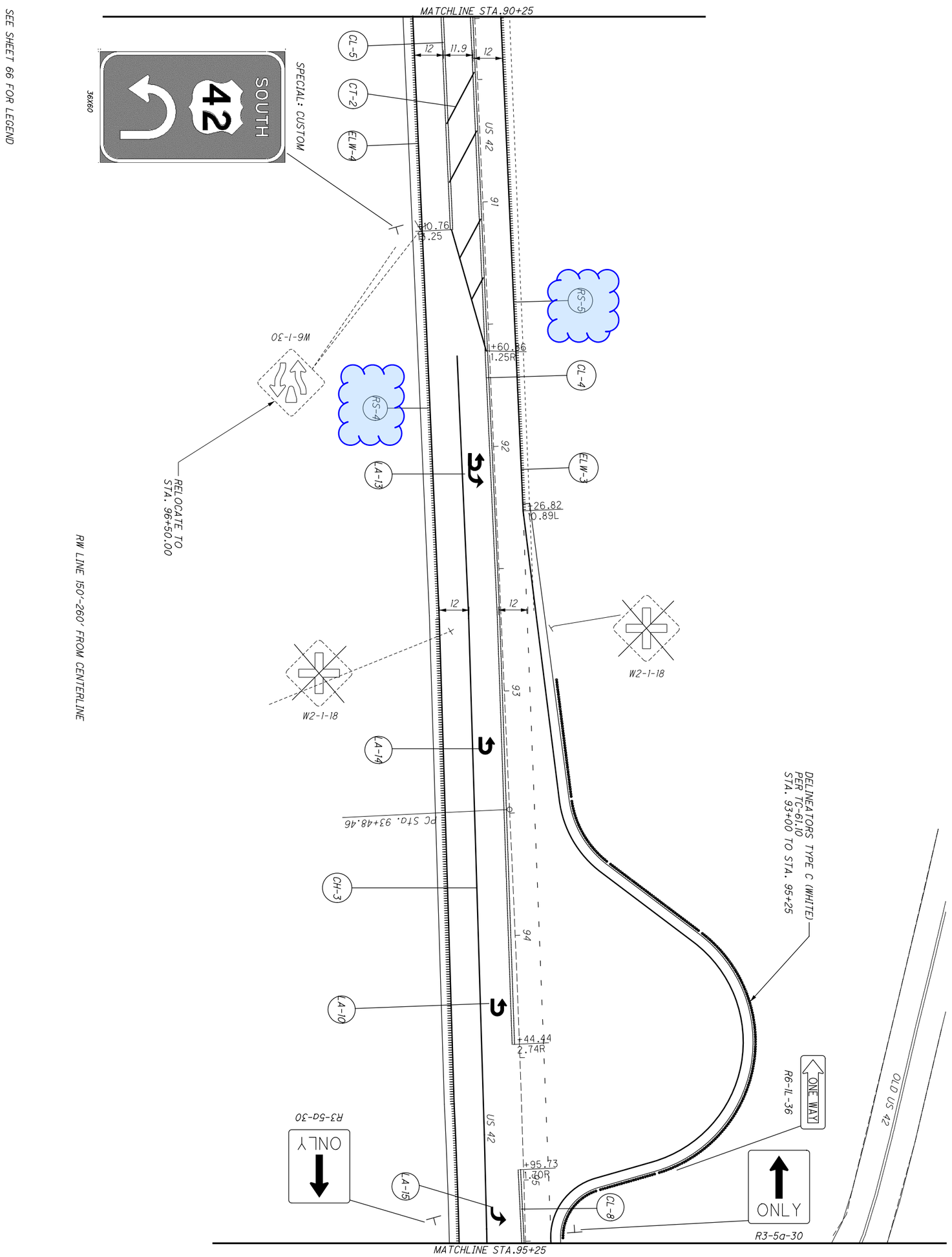
I:\ProjectData\GRE\08640_GRE-US42-3.16\Design\Roadway\Traffic\Sheets\08640_TP005.dgn Sheet 1/17/2020 5:50:13 AM ahenders

HORIZONTAL SCALE IN FEET
0 10 20 40

CALCULATED ABH
CHECKED TCS

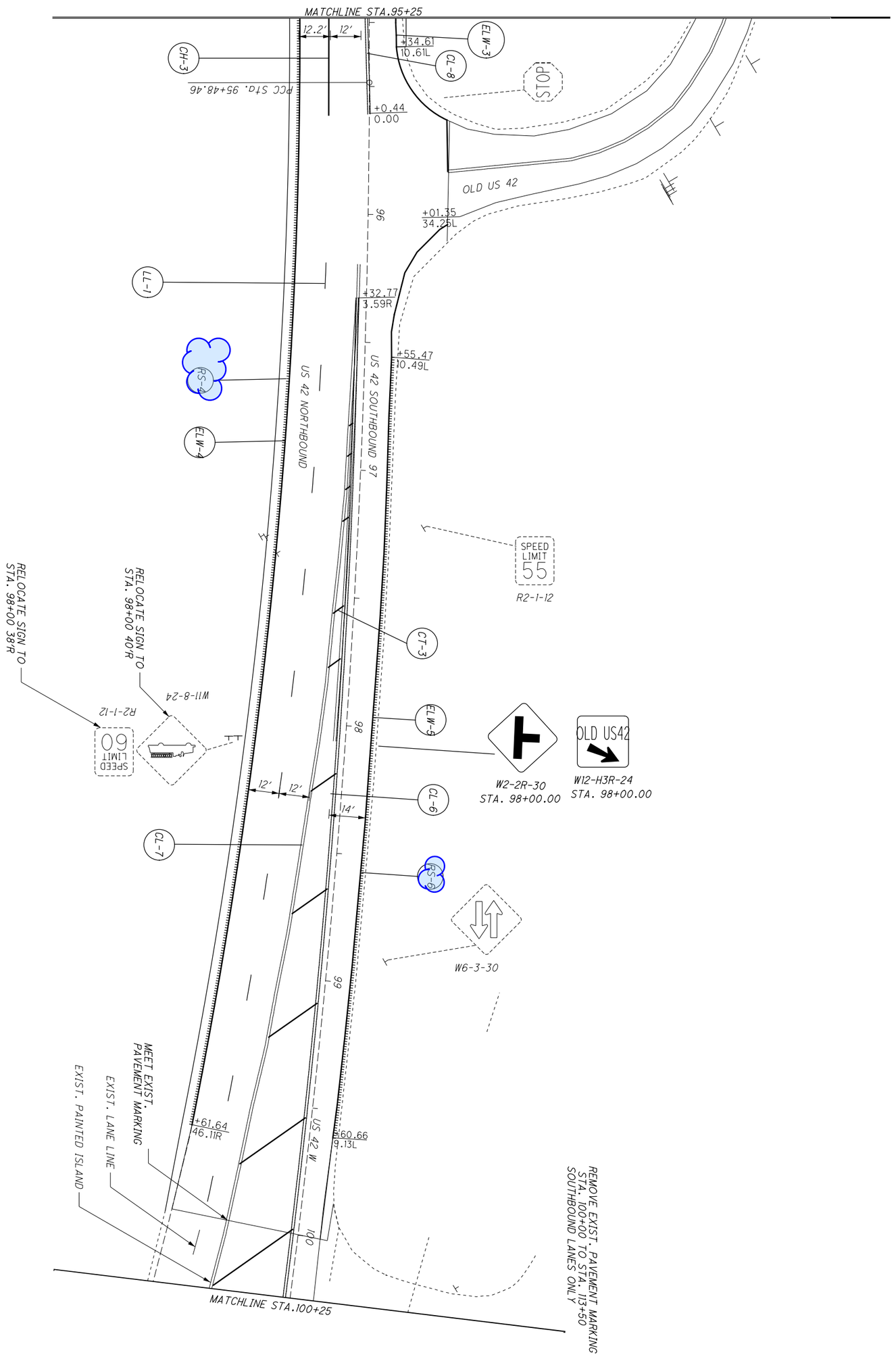
SIGNING & PAVEMENT MARKING
STA. 85+25.00 TO STA. 90+25.00

GRE-42-3.15



70/73	GRE-42-3.15	SIGNING & PAVEMENT MARKING STA. 90+25.00 TO STA. 95+25.00	CALCULATED ABH CHECKED TCS	0 10 20 40 HORIZONTAL SCALE IN FEET

SEE SHEET 66 FOR LEGEND



71/73	GRE-42-3.15	SIGNING & PAVEMENT MARKING STA. 95+25.00 TO STA. 100+25.00	CALCULATED ABH / CHECKED TCS	0 10 20 40 HORIZONTAL SCALE IN FEET