REPLACE LAAF VEHICLE SCALES VIC HAZ CARGO AND FREEDOM HALL FORT MOORE, GEORGIA

FREEDOM HALL
VEHICLE SCALES, LAAF

HAZARDOUS CARGO APRON
VEHICLE SCALES, LAAF

GENERAL NOTES:

A. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DISPOSING OF ALL CONSTRUCTION DEBRIS.

B. THE CONTRACTOR SHALL PREPARE AND SUBMIT A SOIL, EROSION AND POLLUTION CONTROL PLAN FOLLOWING GASWCC. EROSION CONTROL MEASURES ARE TO BE ACCOMPLISHED PRIOR TO ANY CONSTRUCTION ON THE SITE AND MAINTAINED UNTIL PERMANENT GROUND COVER IS ESTABLISHED.INCLUDE POST-CONSTRUCTION STORM WATER MANAGEMENT IN ACCORDANCE WITH PERMIT NO. GAG480000 (MS4).

C. CONTRACTOR SHALL PROVIDE ADEQUATE DUST CONTROL MEASURES & SHALL MAINTAIN SAFE PASSAGEWAY FOR WORKERS & NON-WORKERS AS REQUIRED ADJACENT TO THE PROJECT SITE.

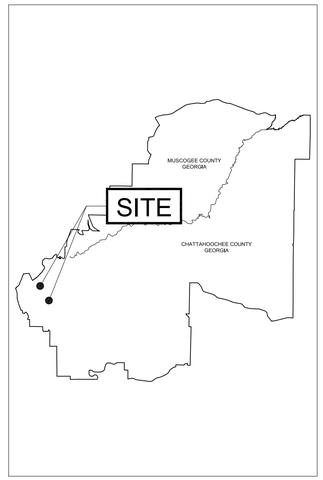
D. THE CONTRACTOR SHALL VERIFY EXISTING CONDITIONS AND ELEVATIONS PRIOR TO BEGINNING NEW WORK, AN UPDATED SURVEY SHALL BE DONE FOLLOWING AWARD. QUANTITIES PROVIDED WITHIN THESE DRAWINGS AND SCOPE OF WORK ARE ESTIMATED VALUES ONLY; CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING, TO THE GREATEST EXTENT POSSIBLE, DURING JOB WALK/SITE VISIT PRIOR TO SUBMISSION OF THEIR RESPECTIVE BIDS.

E. CONTRACTOR IS RESPONSIBLE FOR ALL UTILITY LOCATES IN PROJECT AREA. COORDINATE ANY POTENTIAL OR REALIZED CONFLICTS THROUGH FT. MOORE DPW ENGINEERING OFFICE.

F. MATCH EXISTING VERTICAL GRADES WHERE REPAVING IS REQUIRED. RESTRIPE UTILIZING HIGH BUILD PAINT; MATCH EXISTING STRIPING UNLESS NOTED OTHERWISE.

G. ALL DIMENSIONS IN THIS DRAWING ARE IN FEET.

INDEX TO DRAWINGS



TOTAL NEW LAND DISTURBANCE:

0.25 ACRES

GEORGIA STATE PLANE NAD 83 (2011) WEST ZONE

N

GSWCC#

DR.	CHK	DATE	DESCRIPTION
AW	N/A	17OCT2023	ORIGINAL DRAWING SUBMITTAL

DIRECTORATE OF PUBLIC WORKS
6650 MELOY DR., BLDG. 6, 3RD FLOOR
FORT MOORE, GEORGIA 31905

REPLACE LAAF VEHICLE SCALES VIC HAZ CARGO AND FREEDOM HALL FORT MOORE, GEORGIA

COVER SHEET

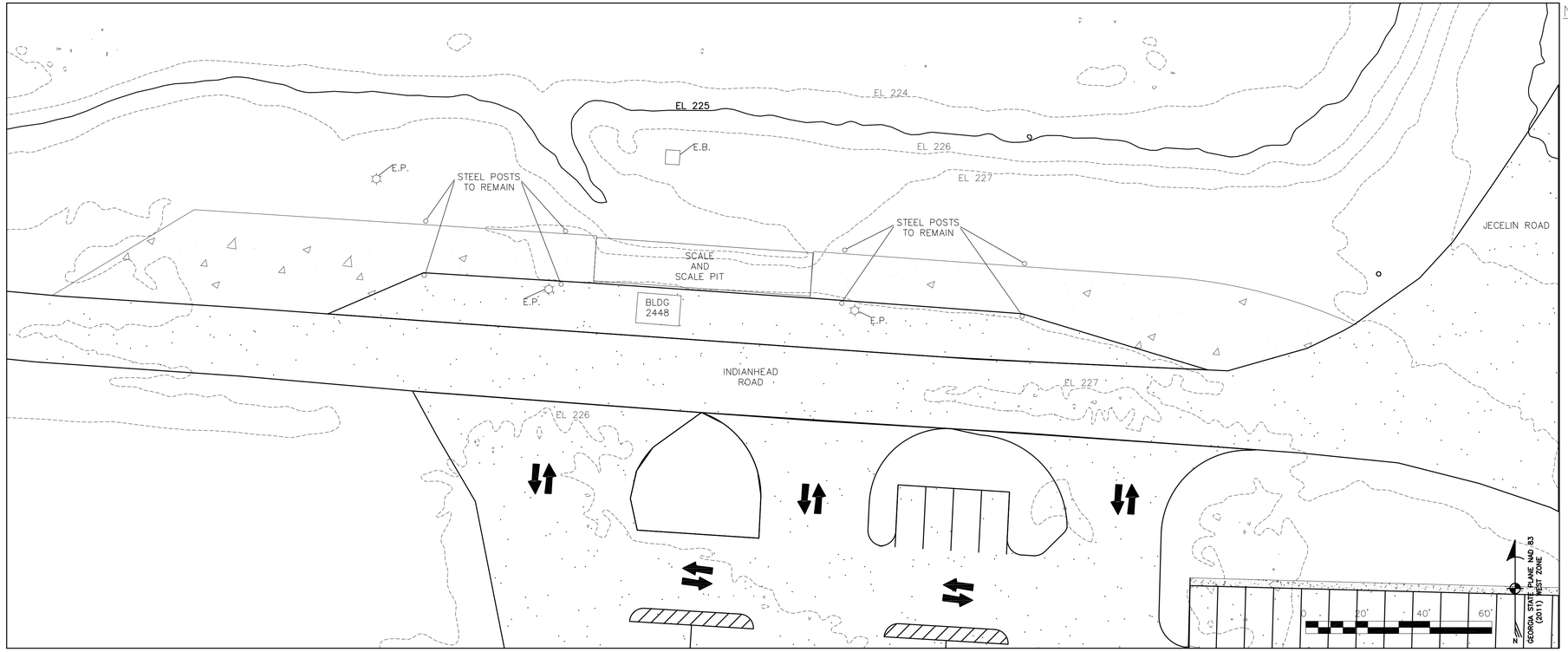
CAD FILE NO.:	444XX
APPROVED BY:	DCS
DESIGN BY:	AW
DRAWN BY:	AW
DWG DATE:	01-19-2024
SURVEY DATE:	---

SHEET
C0001
1 OF 5 SHTS

CREATED: 2/1/2024 LAST SAVED: 2/1/2024 BY: A.M.WILSON54.CIV PLOT DATE: 2/1/2024

ORIG. PAPER SIZE: ARCH "D"

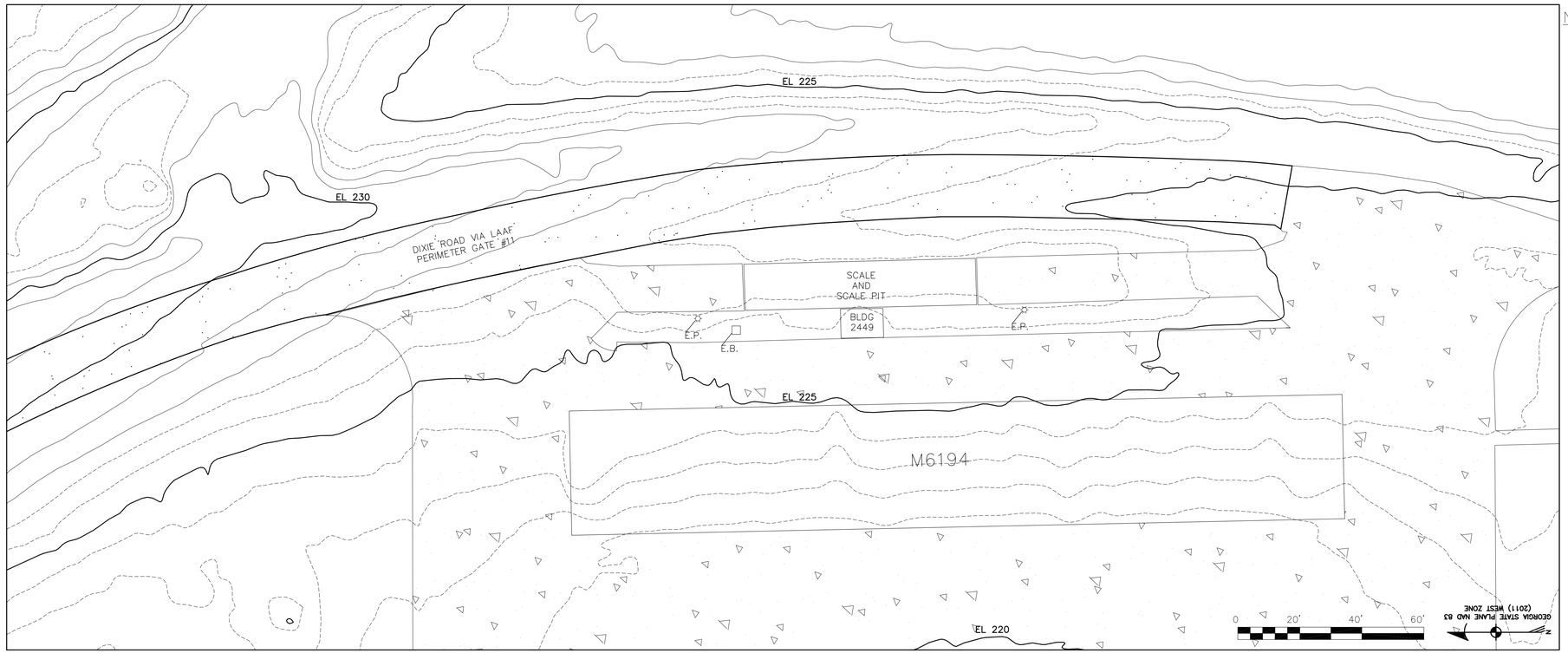
FREEDOM HALL VEHICLE SCALES, LAAF



NOTES:

1. EXISTING SCALE IS ROUGHLY 14' X 70' WITH A NOM CAP OF 300,000 LBS AND CLC OF 100,000 LBS.
2. SCALE IS BOLTED TO UNDERLYING CONCRETE PAD (ASSUMED 50 CY OF REINFORCED CONCRETE) BY A $\frac{1}{2}$ INCH RECTANGULAR STEEL PLATE.
3. MAXIMUM HEIGHT OF CONCRETE APRON APPROACHES IS APPROXIMATELY 18 INCHES ABOVE SURFACE OF CONCRETE PAD; CONCRETE SLABS ARE APPROXIMATELY 15' X 15' FROM JOINT TO JOINT.
4. STEEL GUIDE POSTS (TO REMAIN) OFFSET APPROXIMATELY 12–18 INCHES ON EITHER SIDE OF EACH OF THE APPROACHES.
5. ELECTRICAL OVERHEAD LIGHT POLES ARE OFFSET APPROXIMATELY 18 INCHES FROM EDGE OF CONCRETE; LINES ARE FED WITH UNDERGROUND ELECTRICAL.
6. BUILDING 2448 SERVES AS THE SCALE WEIGH STATION FOR DIGITAL READOUTS AND PRINTING OF LOAD TICKETS.
7. HEAVY SEDIMENT TRAVEL HAS OCCURRED FROM THE ROADWAY RUNNING UNDERNEATH THE SCALES; CURRENTLY THE CONCRETE PAD HAS APPROXIMATELY A 1 INCH LAYER OF SEDIMENT AND ORGANICS.

HAZARDOUS CARGO APRON VEHICLE SCALES, LAAF



NOTES:

1. EXISTING SCALE IS ROUGHLY 15' X 75' WITH A NOM CAP OF 200,000 LBS AND CLC OF 80,000 LBS.
2. SCALE IS BOLTED TO UNDERLYING CONCRETE PAD (ASSUMED 50 CY OF REINFORCED CONCRETE) BY A $\frac{1}{2}$ INCH RECTANGULAR STEEL PLATE.
3. CONCRETE APPROACHES ARE APPROXIMATELY 15' X 15' SLABS FROM JOINT TO JOINT.
4. ELECTRICAL OVERHEAD LIGHT POLES ARE OFFSET APPROXIMATELY 18 INCHES FROM EDGE OF CONCRETE WITH 2' DIAMTER CONCRETE BASES; LINES ARE FED WITH UNDERGROUND ELECTRICAL.
5. BUILDING 2449 SERVES AS THE SCALE WEIGH STATION FOR DIGITAL READOUTS AND PRINTING OF LOAD TICKETS.
6. GRASS MEDIAN AREA ON THE EAST SIDE OF THE SCALE IS RAISED POOLING WATER ALONG THE ROADWAY.

GSWCC#

DR.	CHK.	DATE	DESCRIPTION

DPW

DIRECTORATE OF PUBLIC WORKS

6650 MELOY DR., BLDG. 6, 3RD FLOOR
FORT MOORE, GEORGIA 31905

REPLACE LAAF VEHICLE SCALES VIC HAZ CARGO AND FREEDOM HALL
FORT MOORE, GEORGIA

EXISTING CONDITION

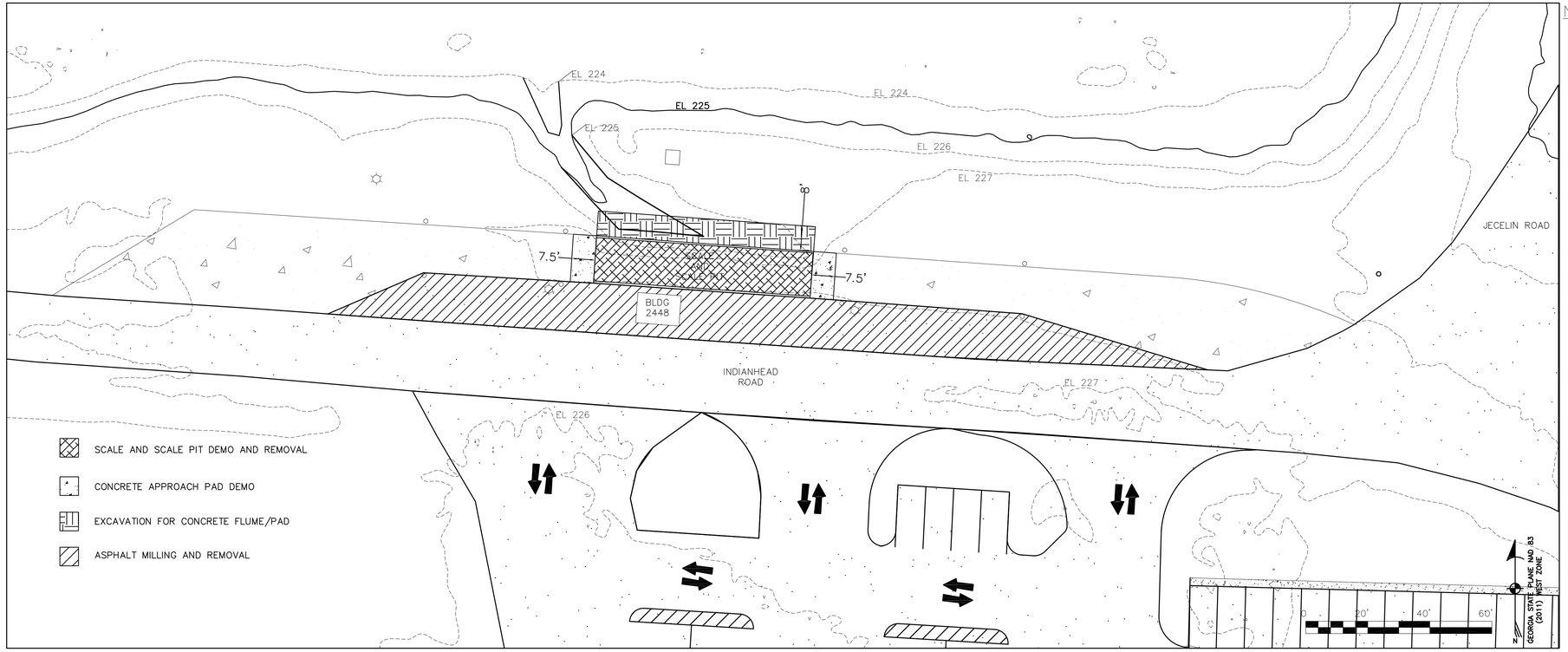
CAD FILE NO.:	444XX
APPROVED BY:	JCV
DESIGN BY:	AW
DRAWN BY:	AW
DWG DATE:	01-19-2024
SURVEY DATE:	---

SHEET
C0002
2 OF 5 SHTS

CREATED: 2/1/2024 LAST SAVED: 2/1/2024 BY: A.M.WILSON54.CIV PLOT DATE: 2/1/2024

ORIG. PAPER SIZE: ARCH "D"

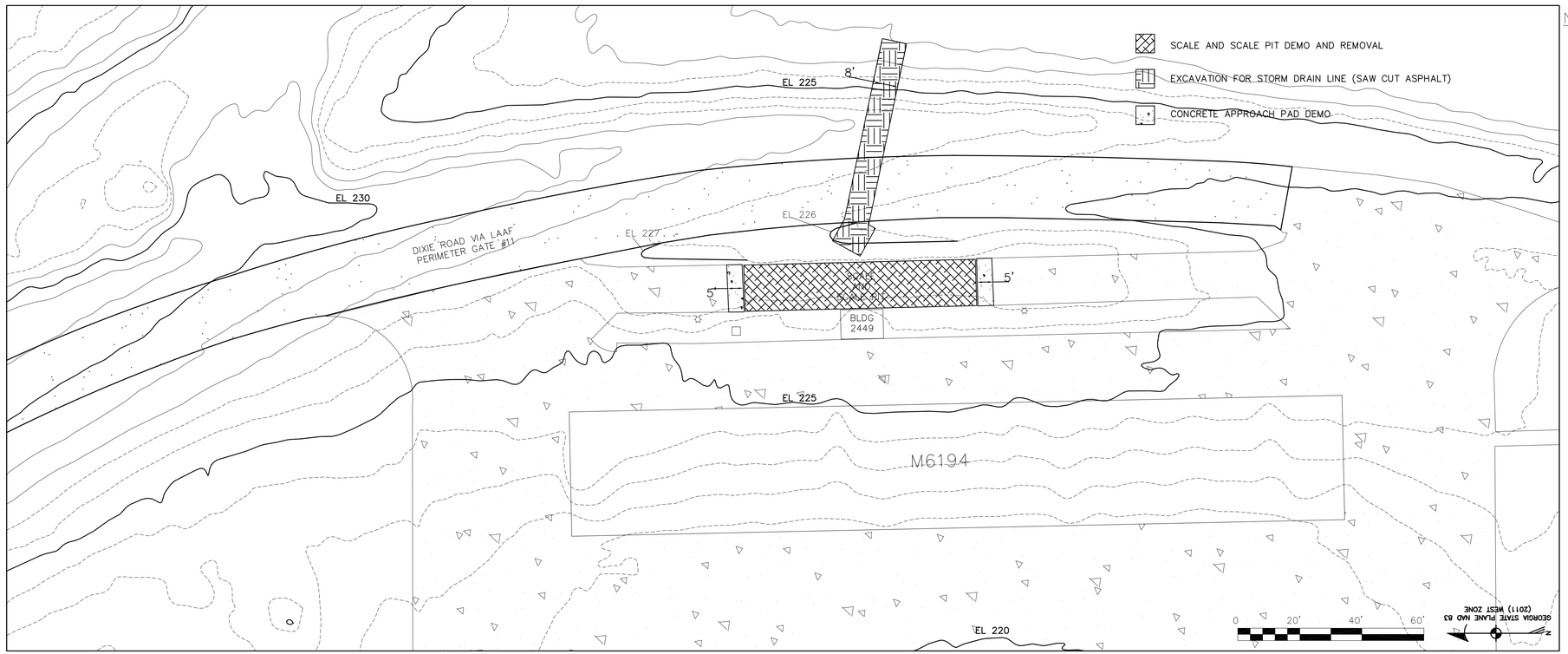
FREEDOM HALL VEHICLE SCALES, LAAF



NOTES:

1. EXCAVATE AND REMOVE UP TO 8 INCHES OF EXISTING SOIL MATERIAL FOR SUBBASE AND CONCRETE FLUME AND PAD, APPROXIMATELY 15 CY.
2. REMOVE AND DISPOSE OF EXISTING SCALE, ESTIMAED WEIGHT OF 35,000 LBS.
3. DEMO AND REMOVE APPROXIMATELY 15 CY OF REINFORCED CONCRETE APPROACHES. SAWCUT CLEAN LINE TO ENSURE SMOOTH FACE TO TIE NEW CONCRETE APPROACHES BACK TO.
4. DEMO AND REMOVE REINFORCED CONCRETE SCALE PIT TO SUBBASE, APPROXIMATELY 50 CY OF REINFORCED CONCRETE.
5. MILL 2 INCHES OF EXISTING ASPHALT AROUND SCALE BUILDING IN AREA SHOWN, APPROXIMATELY 3,800 SF.
6. CUT AND GRADE NEW ELEVATIONS TO SWALE SHOWN BY APPROXIMATE GRADE LINES TO ENSURE SWALE HAS ADEQUATE SLOPE FOR INSTALLATION OF CONCRETE FLUME AND BASE MATERIAL, APPROXIMATELY 1,225 SF OF GRADING.

HAZARDOUS CARGO APRON VEHICLE SCALES, LAAF



NOTES:

1. EXCAVATE TRENCH FOR NEW DRAINAGE LINE UP TO 5 FEET OF EXISTING SURFACE MATERIAL, APPROXIMATELY 105 CY.
2. REMOVE AND DISPOSE OF EXISTING SCALE, ESTIMAED WEIGHT OF 45,000 LBS.
3. DEMO AND REMOVE APPROXIMATELY 10 CY OF REINFORCED CONCRETE APPROACHES. SAWCUT CLEAN LINE TO ENSURE SMOOTH FACE TO TIE NEW CONCRETE APPROACHES BACK TO.
4. DEMO AND REMOVE REINFORCED CONCRETE SCALE PIT TO SUBBASE, APPROXIMATELY 50 CY OF REINFORCED CONCRETE.
5. CUT AND GRADE NEW ELEVATIONS TO SWALE SHOWN BY APPROXIMATE GRADE LINES TO ENSURE SWALE HAS ADEQUATE SLOPE TO NEW INLET, APPROXIMATELY 1,275 SF OF GRADING.

GSWCC# _____

DR.	CHK.	DATE	DESCRIPTION

DPW

DIRECTORATE OF PUBLIC WORKS
6650 MELOY DR., BLDG. 6, 3RD FLOOR
FORT MOORE, GEORGIA 31905

REPLACE LAAF VEHICLE SCALES VIC HAZ CARGO AND FREEDOM HALL
FORT MOORE, GEORGIA

DEMO AND GRADING PLAN

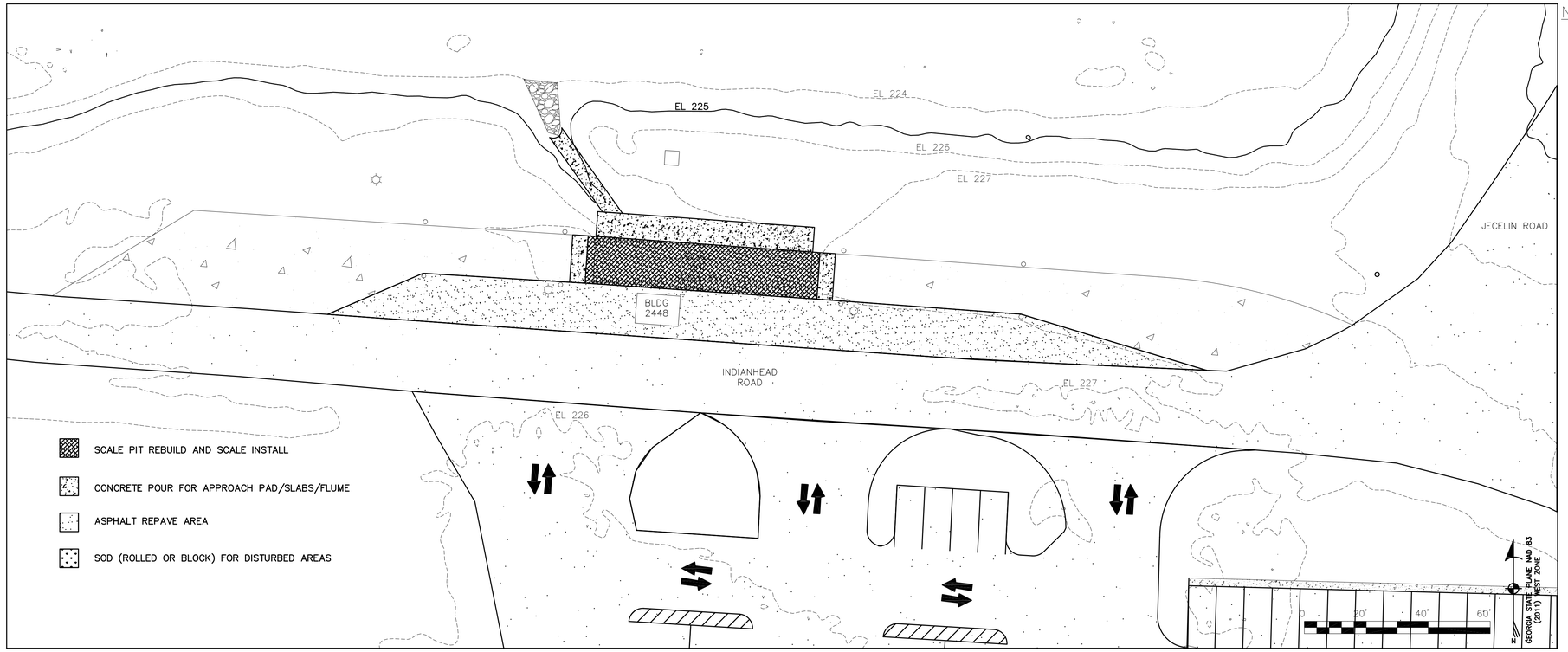
CAD FILE NO.:	444XX
APPROVED BY:	JCV
DESIGN BY:	AW
DRAWN BY:	AW
DWG DATE:	01-19-2024
SURVEY DATE:	---

SHEET
C0003
3 OF 5 SHTS

CREATED: 2/5/2024 LAST SAVED: 2/5/2024 BY: A.M.WILSON54.CIV PLOT DATE: 2/5/2024

ORIG. PAPER SIZE: ARCH "D"

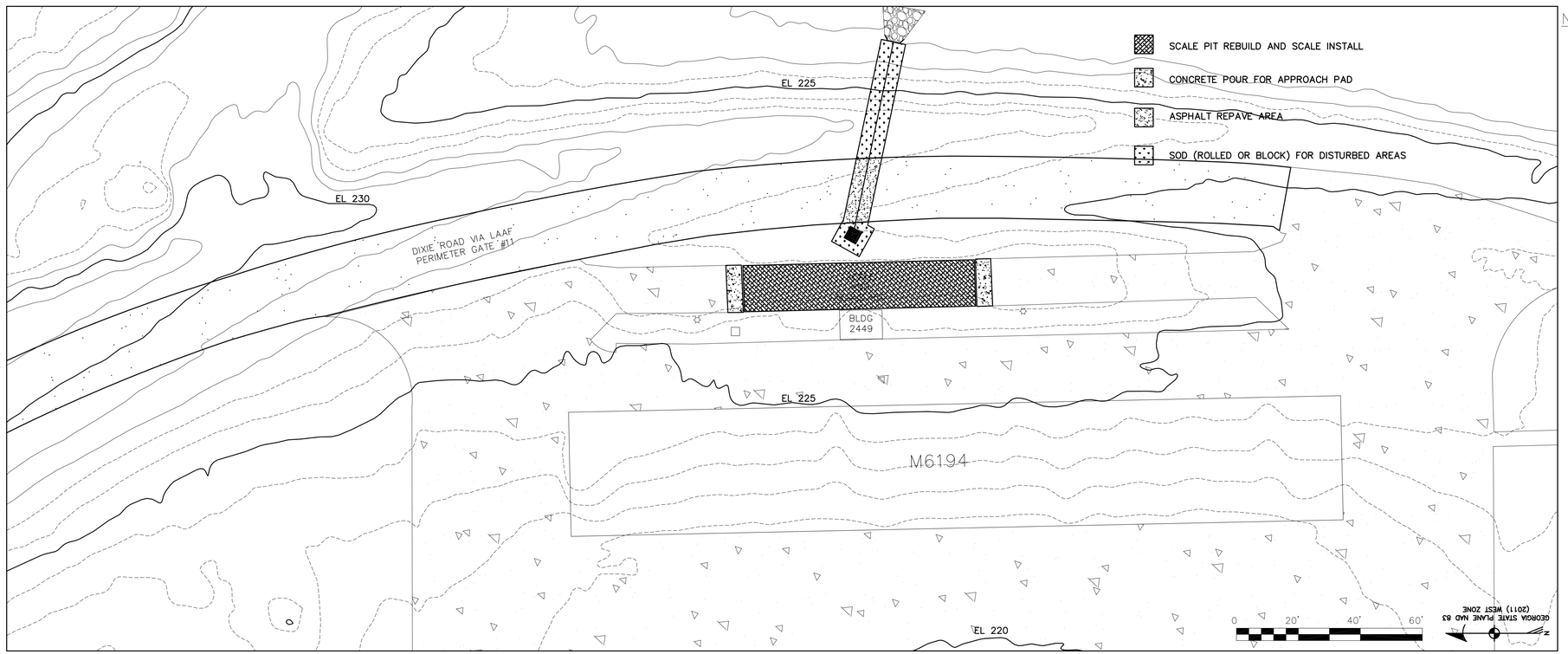
FREEDOM HALL VEHICLE SCALES, LAAF



NOTES:

1. REBUILD SCALE PIT ACCORDING TO MANUFACTURER'S RECOMMENDATIONS. SCALE PIT DRAFT DESIGN REQUIREMENTS PROVIDED ON NEXT SHEET.
2. REFORM AND POUR CONCRETE (4,000 PSI COMPRESSIVE, MIN.) APPROACH SLABS, APPROXIMATELY 15 CY. DOWEL CONNECT INTO EXISTING APPROACH SLABS.
3. FORM AND POUR 4 INCH CONCRETE SLAB WITH THICKENED EDGES ON EXTERNAL PERIMETER, APPROXIMATELY 10 CY. ENSURE THE CROSS SLOPE AND FACE WORK OF THE SLAB CHANNELS AND CONVEYS WATER RUNNING UNDERNEATH THE SCALES TO THE CONCRETE FLUME.
4. FORM AND POUR 4 INCH CONCRETE FLUME AT NORTHWEST EDGE OF SLAB ALONG GRADED CHANNEL, APPROXIMATELY 5 CY.
5. PROVIDE DRAINING LAYER OF SUBBASE UNDERNEATH BOTH CONCRETE SLAB AND FLUME AT LEAST 4 INCHES THICK, APPROXIMATELY 120 SY OF GAB.
6. REPAVE MILLED AREA UTILIZING 2 INCHES OF GDOT STANDARD ASPHALT SURFACE MIX, APPROXIMATELY 70 TONS.
7. INSTALL TYPE C RIP-RAP OUTFALL FROM CONCRETE FLUME, APPROXIMATELY 15 TONS.
8. SOD (BLOCK OR ROLL) ALL DISTURBED AREAS, APPROXIMATELY 1,500 SF.

HAZARDOUS CARGO APRON VEHICLE SCALES, LAAF



NOTES:

1. REBUILD SCALE PIT ACCORDING TO MANUFACTURER'S RECOMMENDATIONS. SCALE PIT DRAFT DESIGN REQUIREMENTS PROVIDED ON NEXT SHEET.
2. REFORM AND POUR CONCRETE (4,000 PSI COMPRESSIVE, MIN.) APPROACH SLABS, APPROXIMATELY 10 CY. DOWEL CONNECT INTO EXISTING APPROACH SLABS.
3. INSTALL PEDESTAL TOP WEIR INLET IN NEW CHANNEL AREA, 1 EA, APPROXIMATELY 5 FEET DEEP. INSTALL 24 INCH PRECAST HEADWALL STRUCTURE AT END OF NEW DRAIN LINE, 1 EA.
4. INSTALL NEW DRAIN LINE, 24 INCH RCP CL V, APPROXIMATELY 64 LF. MAINTAIN MINIMUM OF 0.5% SLOPE THROUGH PIPE TO HEADWALL.
5. INSTALL TYPE C RIP-RAP OUTFALL FROM CONCRETE FLUME, APPROXIMATELY 15 TONS.
6. REBUILD ASPHALT AREA OVER NEW PIPE UTILIZING 6 INCH GAB (20 SY), 3 INCH ASPHALT BINDER COURSE (5 TONS), AND 2 INCH ASPHALT SURFACE MIX (5 TONS).
7. SOD (BLOCK OR ROLL) ALL DISTURBED AREAS, APPROXIMATELY 1,500 SF.

GSWCC# _____

DR.	CHK.	DATE	DESCRIPTION

DPW

DIRECTORATE OF PUBLIC WORKS
6650 MELOY DR., BLDG. 6, 3RD FLOOR
FORT MOORE, GEORGIA 31905

REPLACE LAAF VEHICLE SCALES VIC HAZ CARGO AND FREEDOM HALL
FORT MOORE, GEORGIA

SITE PLAN

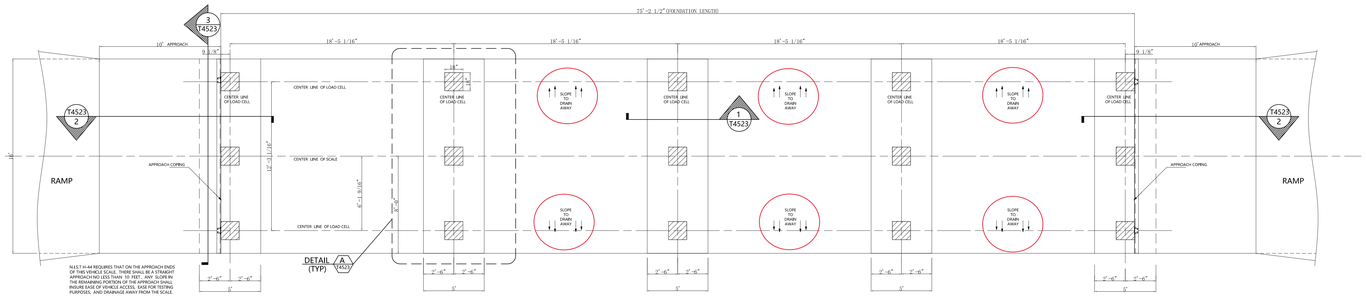
CAD FILE NO.:	444XX
APPROVED BY:	JCV
DESIGN BY:	AW
DRAWN BY:	AW
DWG DATE:	01-19-2024
SURVEY DATE:	---

SHEET
C0004
4 OF 5 SHTS

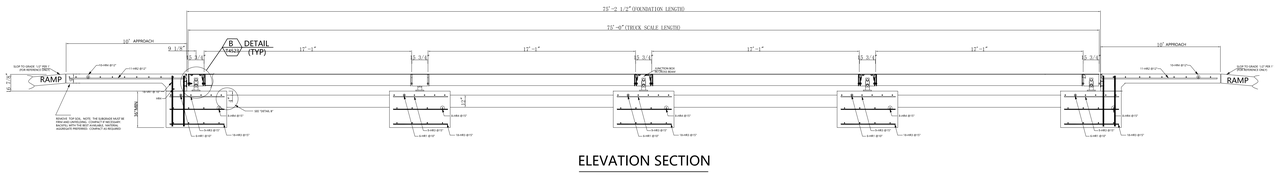
CREATED: 2/5/2024 LAST SAVED: 2/5/2024 BY: A.M.WILSON54.CIV PLOT DATE: 2/5/2024

ORIG. PAPER SIZE: ARCH "D"

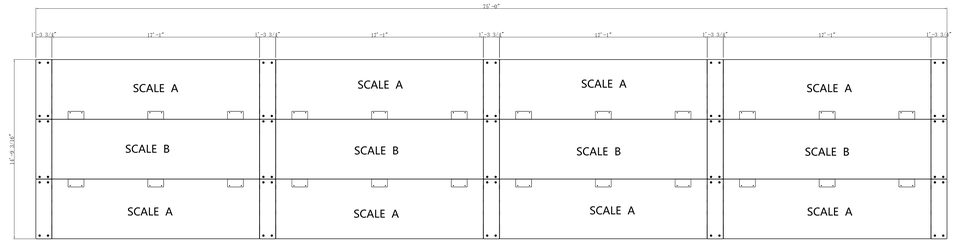
Design cross-slope on slabs in the scale pit such that the water drains across the full width to the drainage structures (flume/weir top inlet). Ensure 0.5% cross slope to prevent sediment from settling onto slabs as they are existing.



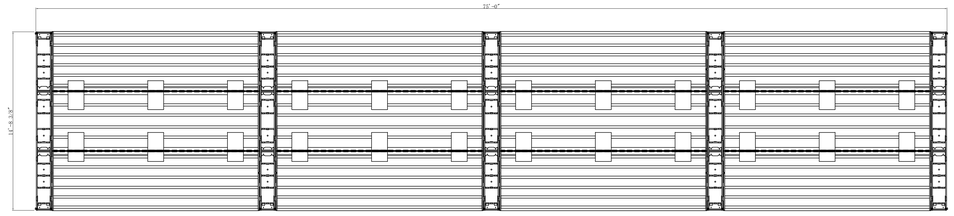
PLAN VIEW



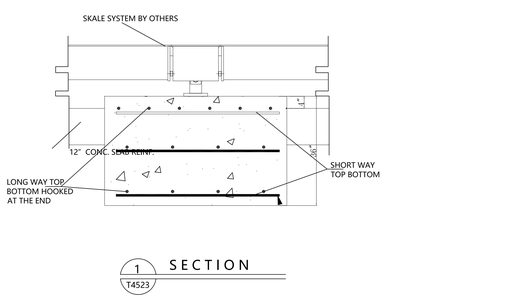
ELEVATION SECTION



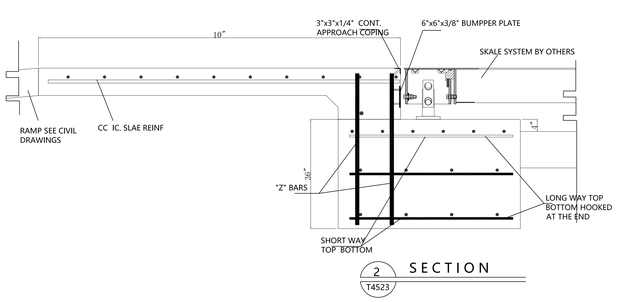
SCALE PLAN VIEW



SCALE BOTTOM VIEW



1 SECTION T4523



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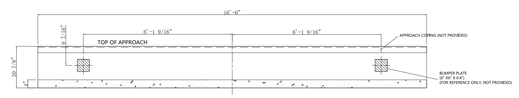

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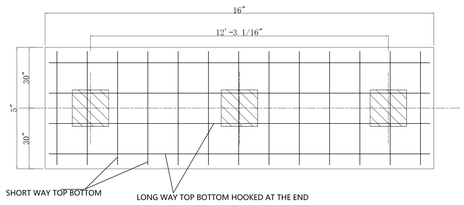
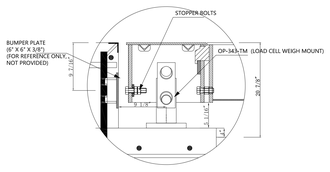


A DETAIL T4523



B DETAIL T4523

FOUNDATION REINFORCING BAR SCHEDULE ASTM A615 GRADE 60 (FOR REFERENCE ONLY)				
MARK	NO.REQ'D	SIZE	LENGTH	WT(lb).
HR1	30	#6	16'-0"	720
HR2	22	#4	10'-6"	154
HR3	135	#4	4'-6"	405
HR4	64	#4	16'-0"	683
VR1	72	#4	3'-6"	168
			TOTAL WT:	2130

FOUNDATION CONCRETE REQUIRMENTS fc=4000 P.S.I (FOR REFERENCE ONLY)	
AREA	QUANTITY
PIERS AS SHOWN	43.1 CU.YD
APPROACHES	8.6 CU.YD
FLOOR AT 12" THICK	21.4 CU.YD
TOTAL	73.1 CU.YD

REINFORCING STEEL NOTES:
1. REINFORCING STEEL SHALL BE FREE OF ALL MUD, DEBRIS, CEMENT GROUT, LOOSE RUST, GREASE, AND OIL
2. TACK WELDING OF BARS IS PROHIBITED.

NOTES:

1. FOUNDATION SHOWN IS DESIGNED FOR SOILS WITH A MINIMUM BEARING CAPACITY OF 4000 PSF AND ADEQUATE DRAINAGE. IF SOIL CONDITIONS DO NOT MEET THESE REQUIREMENTS, ADJUST FOUNDATION OR SOIL CONDITIONS AS REQUIRED.

2. IN AREAS WHERE THERE IS SEVERE FREEZING, INCREASE THE DEPTH OF THE FOUNDATION SO THAT THE BOTTOM EXTENDS BELOW THE FROST LINE, OR PROVIDE A MINIMUM OF 12" FREE DRAINING GRANULAR MATERIAL TO PREVENT FROST HEAVE.

3. N.I.S.T. H-44 REQUIREMENTS AND LOCAL WEIGHTS AND MEASURES REGULATIONS MAY REQUIRE INSTALLATION PARAMETERS SOMEWHAT DIFFERENT THAN ILLUSTRATED ON THIS PLAN. IN ORDER TO INSURE COMPLIANCE, CONSULT THE LOCAL WEIGHTS & MEASURES OFFICE PRIOR TO CONSTRUCTION.

4. REFER TO SCALE MANUAL FOR INSTALLATION AND OPERATION INSTRUCTIONS.

Unless otherwise specified; dimensions are in inches
Tolerances: Fractions: ±1/8 "
Angles: 1°
3 place decimals;
2 place decimals;
Hole diameter: ±1/32"

MATERIAL	FINISH
STEEL	

TUFNER WEIGHING SYSTEMS

name: TUF-BRIDGE 75' x 15' STEEL DECK ABOVE GROUND FOUNDATION

date: 2/4/24	material
drawn by: Huang	sheet 1 of 1
checked by:	Drawing NO. T4523HD-AG
approved by:	Load Cell