

# CONSTRUCTION PLANS FOR

DATE	ISSUE	BY

DUKE ENERGY DISTRIBUTION ENGINEER:  
ARRISON JENKINS CONTACT PHONE: (689) 234-2498  
CONTACT E-MAIL:  
Harrison.Jenkins@DUKE-ENERGY.COM  
WO: 50706905  
CONTRACTOR TO ADHERE TO APPLICABLE OSHA  
REQUIREMENTS REGARDING PERFORMING WORK AND  
OPERATING EQUIPMENT ADJACENT TO ENERGIZED  
OVERHEAD AND UNDERGROUND ELECTRIC CONDUCTORS.



# CR 455 SOUTH LAKE TRAIL BOARDWALK

SECTION 09, TOWNSHIP 22 S, RANGE 26 E

**DOUGLAS B. SHIELDS**

COMMISSIONER  
DISTRICT 1

**KIRBY SMITH**

COMMISSIONER  
DISTRICT 3

**JOSH BLAKE**

COMMISSIONER  
DISTRICT 5

**SEAN M. PARKS**

COMMISSIONER  
DISTRICT 2

CAUTION: THE LOCATION OF ALL  
UNDERGROUND CONDUCTORS SHOWN ON  
THIS RGB ARE APPROXIMATIONS -  
SURVEYS AND LOCATES WILL BE NEEDED  
TO IDENTIFY EXACT DEPTH AND  
LOCATIONS.

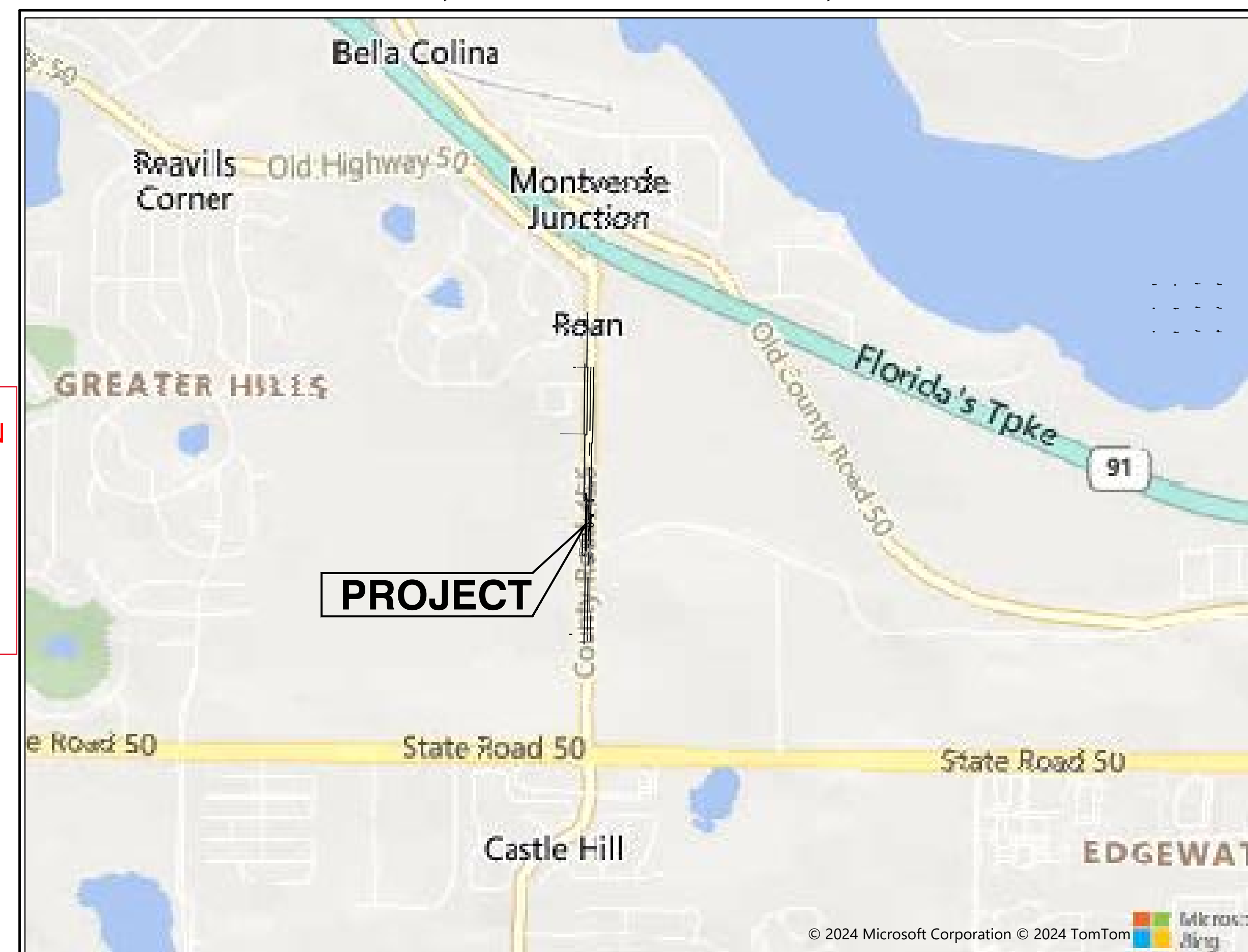
CAUTION: UNDERGROUND FACILITIES IN  
AREA. PLEASE CONTACT SUNSHINE 811 AT  
800-432-4770 BEFORE DIGGING - TO OBTAIN  
MORE INFORMATION ON LOCATION OF  
FACILITIES.

**OWNER/DEVELOPER**

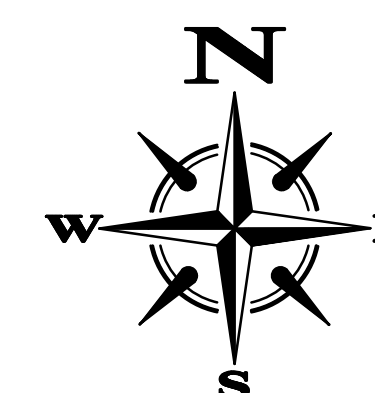
LAKE COUNTY BOARD OF COUNTY COMMISSIONERS  
315 WEST MAIN STREET  
TAVARES, FL 32778  
ANGELA HARROLD  
PHONE: (352) 253-4950  
ANGELA.HARROLD@LAKECOUNTYFL.GOV

**ENGINEER/SURVEYOR:**

HALFF  
902 N SINCLAIR AVENUE  
TAVARES, FL 32778  
DUANE K. BOOTH, P.E.  
(352) 343-8481  
DBOOTH@HALFF.COM



VICINITY MAP  
1" = 1,000'



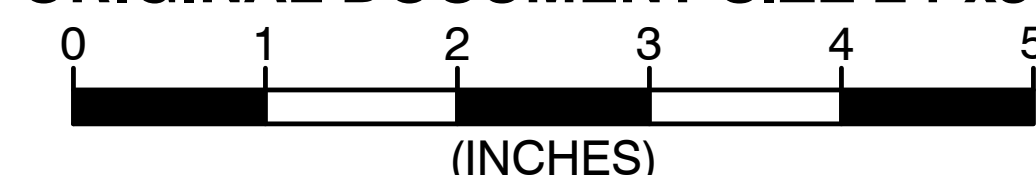
**INDEX OF SHEETS**

CS-1	COVER SHEET
DEC-01	EXIST. CONDITION DEMO/EROSION CONTROL PLAN
OSP-01	OVERALL SITE PLAN
SP-01	SITE PLAN (1)
SP-02	SITE PLAN (2)
SP-03	SITE PLAN (3)
SPF-01	SITE PLAN FINAL (1)
SPF-02	SITE PLAN FINAL (2)
SPF-03	SITE PLAN FINAL (3)
GP-01	GRADING PLAN (1)
GP-02	GRADING PLAN (2)
GP-03	GRADING PLAN (3)
CS-01	CROSS SECTION (1)
CS-02	CROSS SECTION (2)
CS-03	CROSS SECTION (3)
CS-04	CROSS SECTION (4)
CS-05	CROSS SECTION (5)
CS-06	CROSS SECTION (6)
CS-07	CROSS SECTION (7)
CSF-01	CROSS SECTION FINAL (1)
CSF-02	CROSS SECTION FINAL (2)
CSF-03	CROSS SECTION FINAL (3)
CSF-04	CROSS SECTION FINAL (4)
CSF-05	CROSS SECTION FINAL (5)
CSF-06	CROSS SECTION FINAL (6)
CSF-07	CROSS SECTION FINAL (7)
SPM-01	SIGNAGE & PAVEMENT MARKING PLAN (1)
SPM-02	SIGNAGE & PAVEMENT MARKING PLAN (2)
SPM-03	SIGNAGE & PAVEMENT MARKING PLAN (3)
DET-01	DETAIL PLAN SHEET
HS-01	BOARDWALK DETAIL SHEET

JULY 26, 2024



ORIGINAL DOCUMENT SIZE 24"x36"



SUBMITTAL DATE, SUBMITTAL NAME (NOT FOR CONSTRUCTION UNTIL CONFORMED)





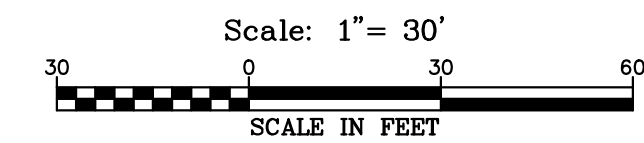
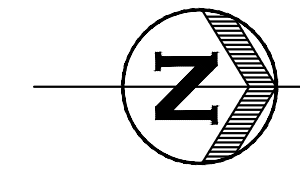
**CAUTION: THE LOCATION OF ALL UNDERGROUND CONDUCTORS SHOWN ON THIS RGB ARE APPROXIMATIONS - SURVEYS AND LOCATES WILL BE NEEDED TO IDENTIFY EXACT DEPTH AND LOCATIONS.**

**CAUTION: UNDERGROUND FACILITIES IN AREA. PLEASE CONTACT SUNSHINE 811 AT 800-432-4770 BEFORE DIGGING - TO OBTAIN MORE INFORMATION ON LOCATION OF FACILITIES.**

- NOTE:
- 1). ALL EXISTING TRAIL SIGNAGE ALONG LIMITS OF PROJECT, TO BE REMOVED. SIGNS TO BE RETURNED TO LAKE COUNTY OFFICE OF PARKS AND TRAILS.
  - 2). ALL EXISTING CROSSING SIGNAGE AND PAVEMENT MARKINGS TO REMAIN.

**LEGEND**

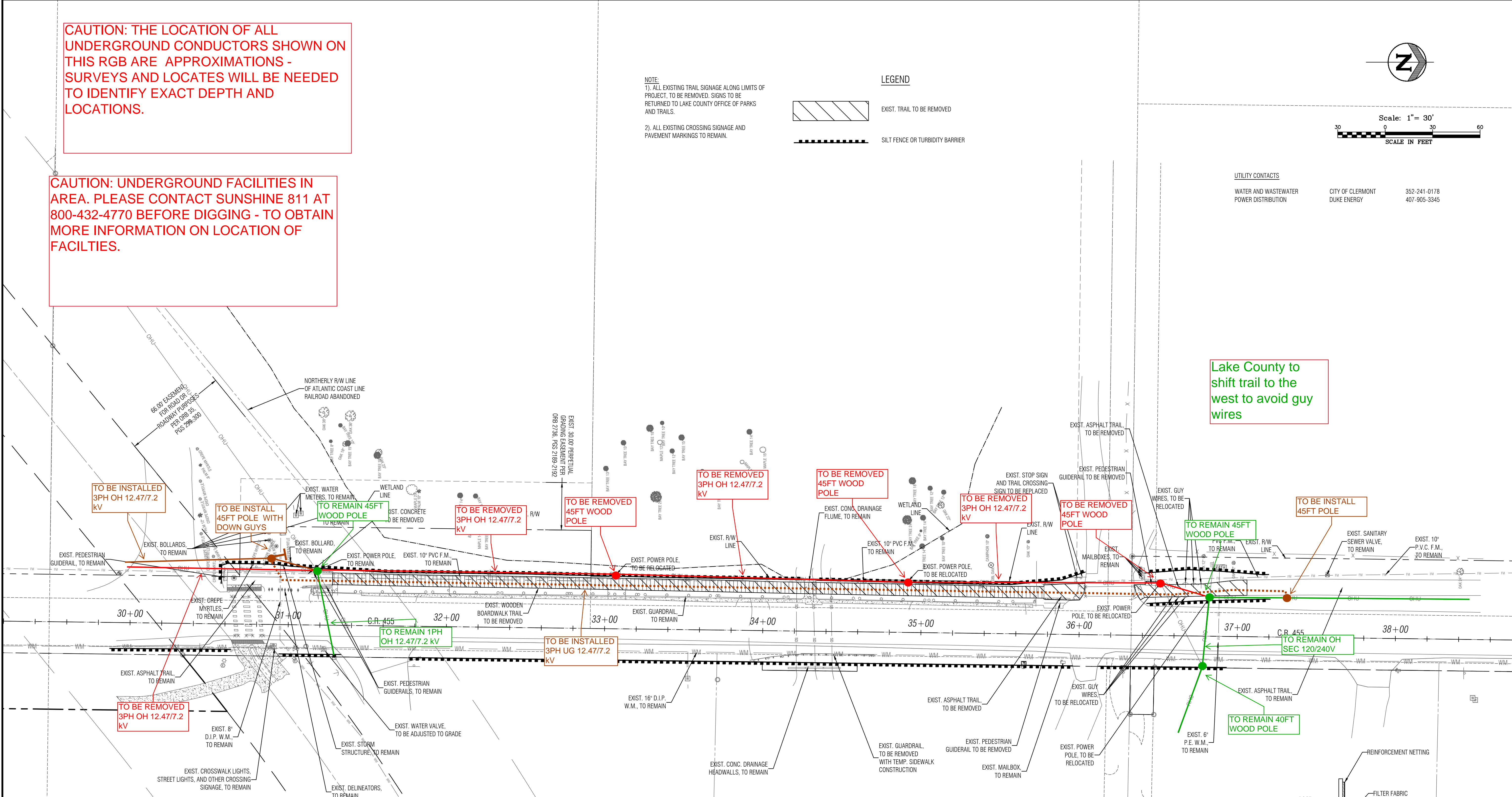
-  EXIST. TRAIL TO BE REMOVED
-  SILT FENCE OR TURBIDITY BARRIER



UTILITY CONTACTS

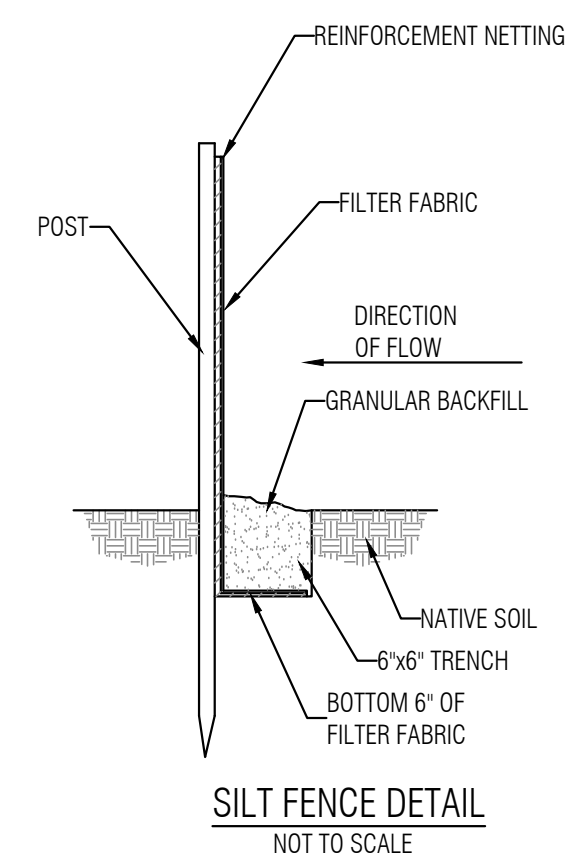
WATER AND WASTEWATER POWER DISTRIBUTION	CITY OF CLERMONT DUKE ENERGY	352-241-0178 407-905-3345
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Lake County to shift trail to the west to avoid guy wires



**EROSION CONTROL NOTES:**

- 1). TEMPORARY EROSION CONTROL STRUCTURE TO BE UTILIZED DURING CONSTRUCTION AT AREAS DESIGNATED BY ENGINEER OR AREAS ON-SITE WHERE UNSTABILIZED GRADES MAY CAUSE EROSION PROBLEMS. EROSION CONTROL STRUCTURE MAY BE REMOVED AFTER UPSLOPE AREA HAS BEEN STABILIZED BY SOD, OR COMPACTED AS DETERMINED BY CONTRACTOR.
- 2). EROSION AND SEDIMENT CONTROLS SHALL BE MAINTAINED BY THE CONTRACTOR TO MINIMIZE THE AMOUNT OF SOIL DISTURBED, PREVENT OFFSITE RUNOFF FROM DISCHARGING ACROSS DISTURBED AREAS, AND REMOVE ON-SITE SEDIMENT PRIOR TO DISCHARGE OF RUNOFF FROM THE SITE.
- 3). DURING CONSTRUCTION THE CONTRACTOR WILL PROVIDE TEMPORARY SEEDING FOR AREAS WHICH HAVE BEEN CLEARED AND NOT REWORKED WITHIN 7 CALENDAR DAYS. THE ENTIRE CLEARED AND UNPAVED PORTION OF THE PROJECT WILL BE SODDED OR MULCHED AND SEEDING UPON COMPLETION. BARE SOIL AREAS WILL BE KEPT TO A MINIMUM.
- 4). THE CONTRACTOR SHALL BE RESPONSIBLE FOR DAILY INSPECTION AND MAINTENANCE OF ALL EROSION CONTROL DEVICES THROUGHOUT THE CONSTRUCTION PHASE OF THE PROJECT. MAINTENANCE SHALL BE CONDUCTED IN ACCORDANCE WITH THE FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (2021) SECTION. IF THE INSPECTION REVEALS THAT ANY DEVICES ARE FOUND IN NO WORKING ORDER OR DEFICIENT, THE CONTROLS WILL BE REPLACED IMMEDIATELY.
- 5). ALL DISTURBED AREAS SHALL BE SODDED, UNLESS OTHERWISE NOTED. CONTRACTOR IS RESPONSIBLE FOR WATERING AND MAINTAINING SOD UNTIL FULLY ESTABLISHED AND AS ADDITIONALLY SHOWN ON THE CONSTRUCTION PLANS.
- 6). THE CONTRACTOR IS RESPONSIBLE FOR MAINTENANCE AND REPAIRS OF EROSION AND SEDIMENT CONTROL DEVICES, AND REMOVAL OF EROSION AND SEDIMENT CONTROL DEVICES UNTIL ACCEPTANCE OF THE COMPLETED PROJECT BY THE OWNER.
- 7). BUILT UP SEDIMENT WILL BE REMOVED FROM SEDIMENT BARRIERS NO LATER THAN WHEN IT HAS REACHED ONE-THIRD OF THE HEIGHT OF THE FENCE.
- 8). TEMPORARY AND PERMANENT SEEDING, SODDING, AND PLANTING WILL BE INSPECTED FOR BARE SPOTS, WASHOUTS, AND HEALTHY GROWTH.
- 9). SOIL TRACKING PREVENTION DEVICE, SHALL BE INSTALLED TO PREVENT ADJACENT PAVED STREETS FROM ANY EXCESS MUD, DIRT, OR OTHER SEDIMENT FROM THE PROJECT. ANY ADJACENT STREETS THAT BECOME AFFECTED BY CONSTRUCTION ACTIVITIES, SHALL BE SWEEP IMMEDIATELY.
- 10). ALL EROSION AND WATER POLLUTION ABATEMENT AND CONTROL MEASURES WILL BE INSPECTED DAILY BY THE CONTRACTOR. INSPECTIONS ARE TO BE PERFORMED BY QUALIFIED PERSONNEL WHO HAVE COMPLETED THE FLORIDA STORMWATER, EROSION, AND SEDIMENT CONTROL TRAINING AND CERTIFICATION PROGRAM.
- 11). SILT FENCE TO BE INSTALLED PRIOR TO ANY CONSTRUCTION ACTIVITY COMMENCING.
- 12). IN THE CASE THAT THERE IS A NEED FOR DUST CONTROL, THE CONTRACTOR SHALL PROVIDE A WATER TRUCK OR IRRIGATION SYSTEM, AS NEEDED TO CONTROL DUST.
- 13). CONTRACTOR IS RESPONSIBLE FOR SECURING A NPDES CONSTRUCTION PERMIT AS WELL AS SUBMITTING A STORMWATER POLLUTION PREVENTION PLAN (SWPP). CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLIANCE WITH ALL REQUIREMENTS OF THE NPDES PERMIT AND SWPP, IN ADDITION TO REQUIREMENTS OF THE EROSION CONTROL PLANS.
- 14). CONTRACTOR SHALL CALL SUNSHINE STATE ONE CALL OF FLORIDA, INC. AT LEAST 48 HOURS PRIOR TO EXCAVATION 1-800-432-4770.
- 15). APPARENT ERRORS, DISCREPANCIES, AND OMISSIONS SHALL BE BROUGHT TO THE ENGINEER OF RECORDS ATTENTION IN A REASONABLE TIME FRAME LESS THAN 48 HOURS AFTER DISCOVERED. ADVANTAGE WILL NOT BE TAKEN OF APPARENT ERROR OR OMISSION IN DRAWINGS OR SPECIFICATIONS, AND THE ENGINEER SHALL BE PERMITTED TO MAKE CORRECTIONS OR INTERPRETATIONS AS MAY BE DEEMED NECESSARY FOR FULLFILLMENT OF THE INTENT OF THE DESIGN.



LAKE COUNTY, FLORIDA  
CR 455 SOUTH LAKE TRAIL BOARDWALK  
EXISTING CONDITION DEMOLITION/EROSION PLAN



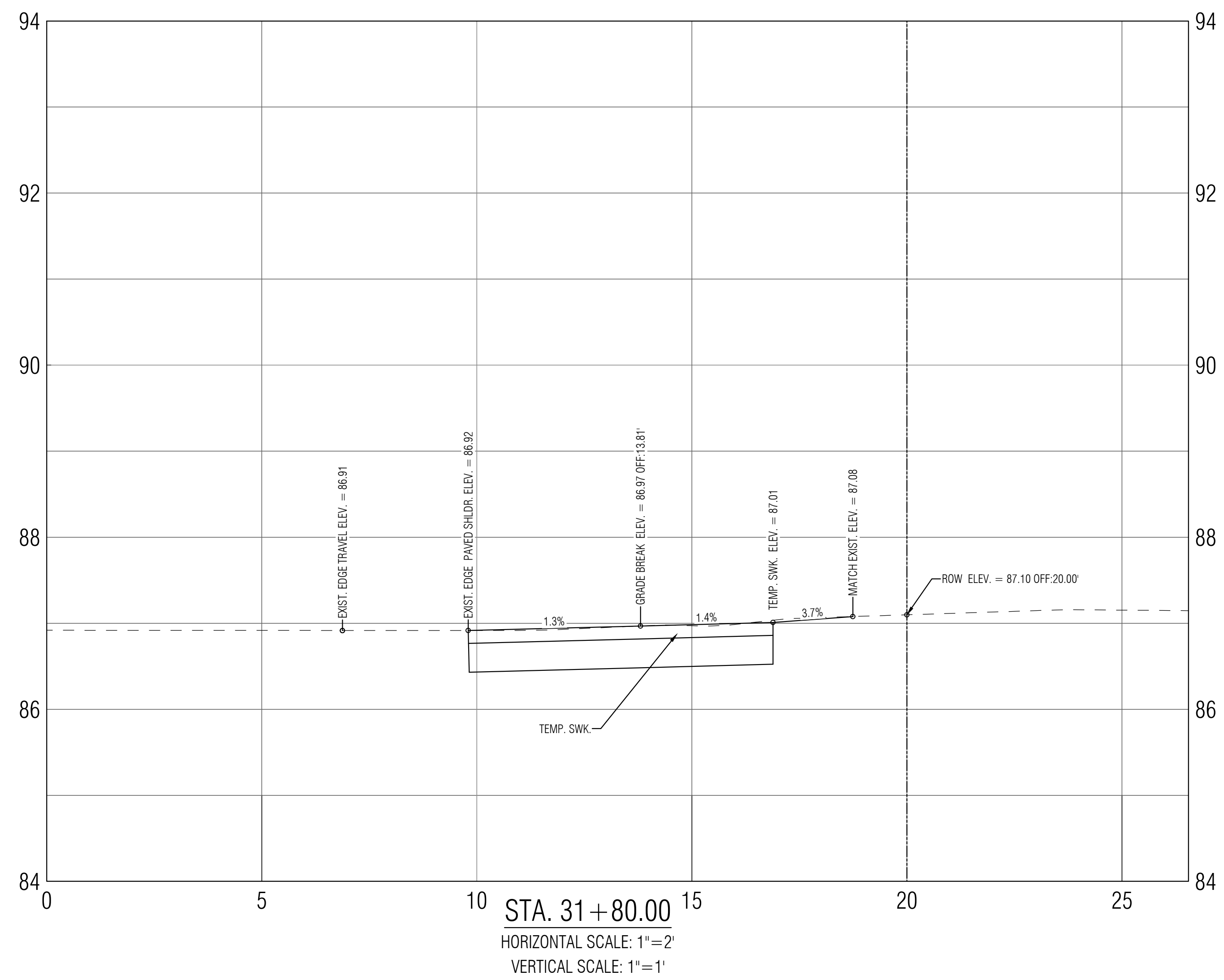
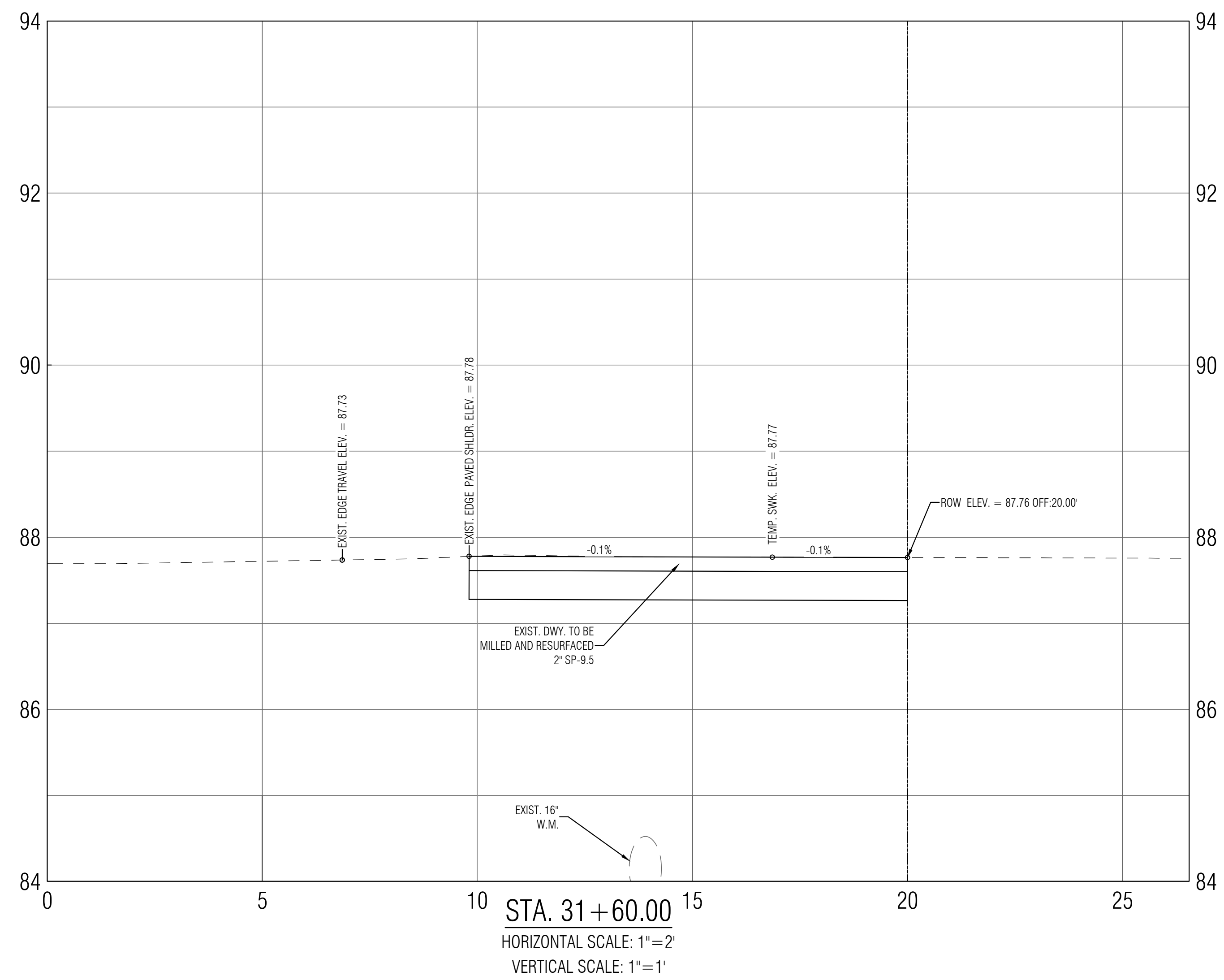
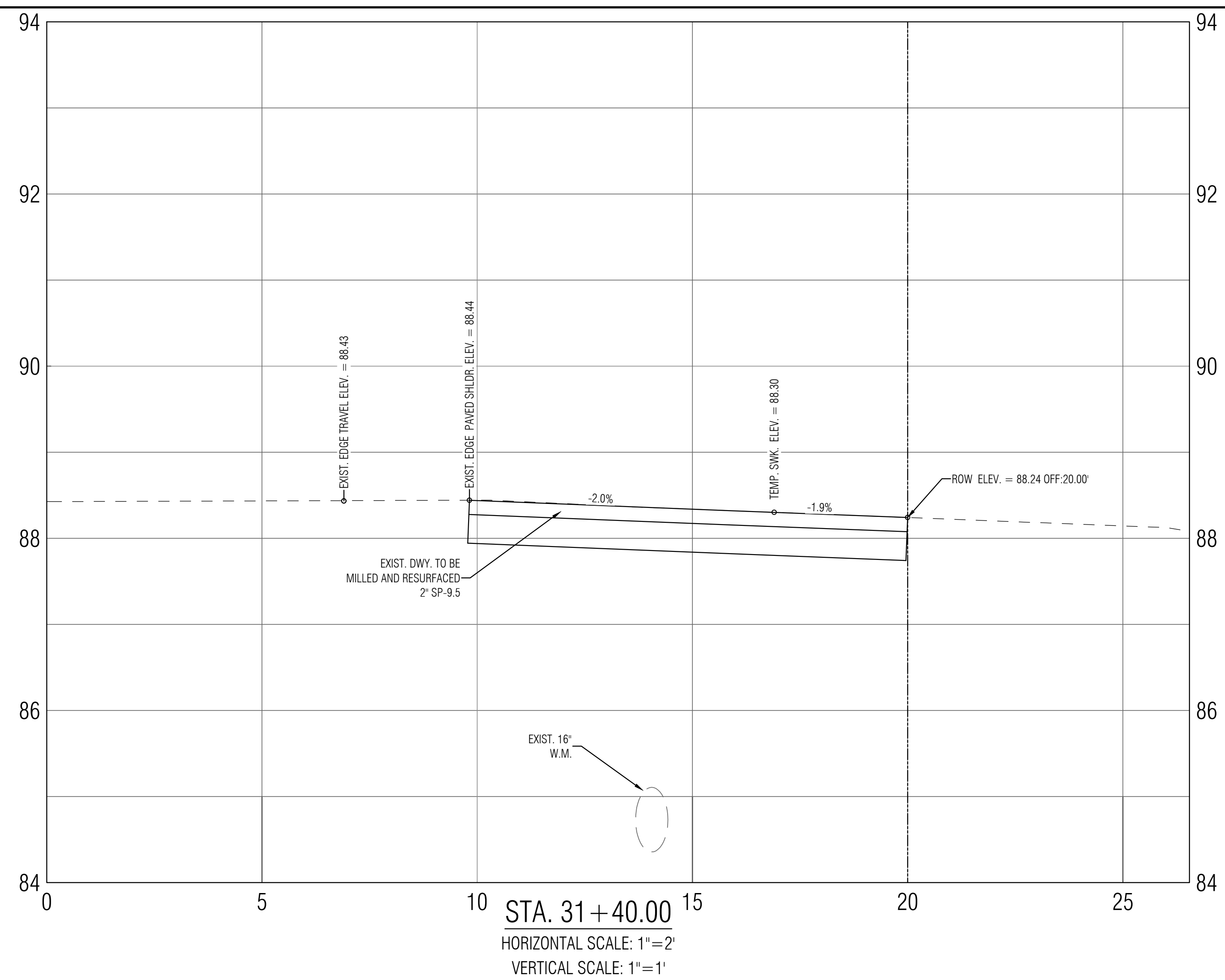
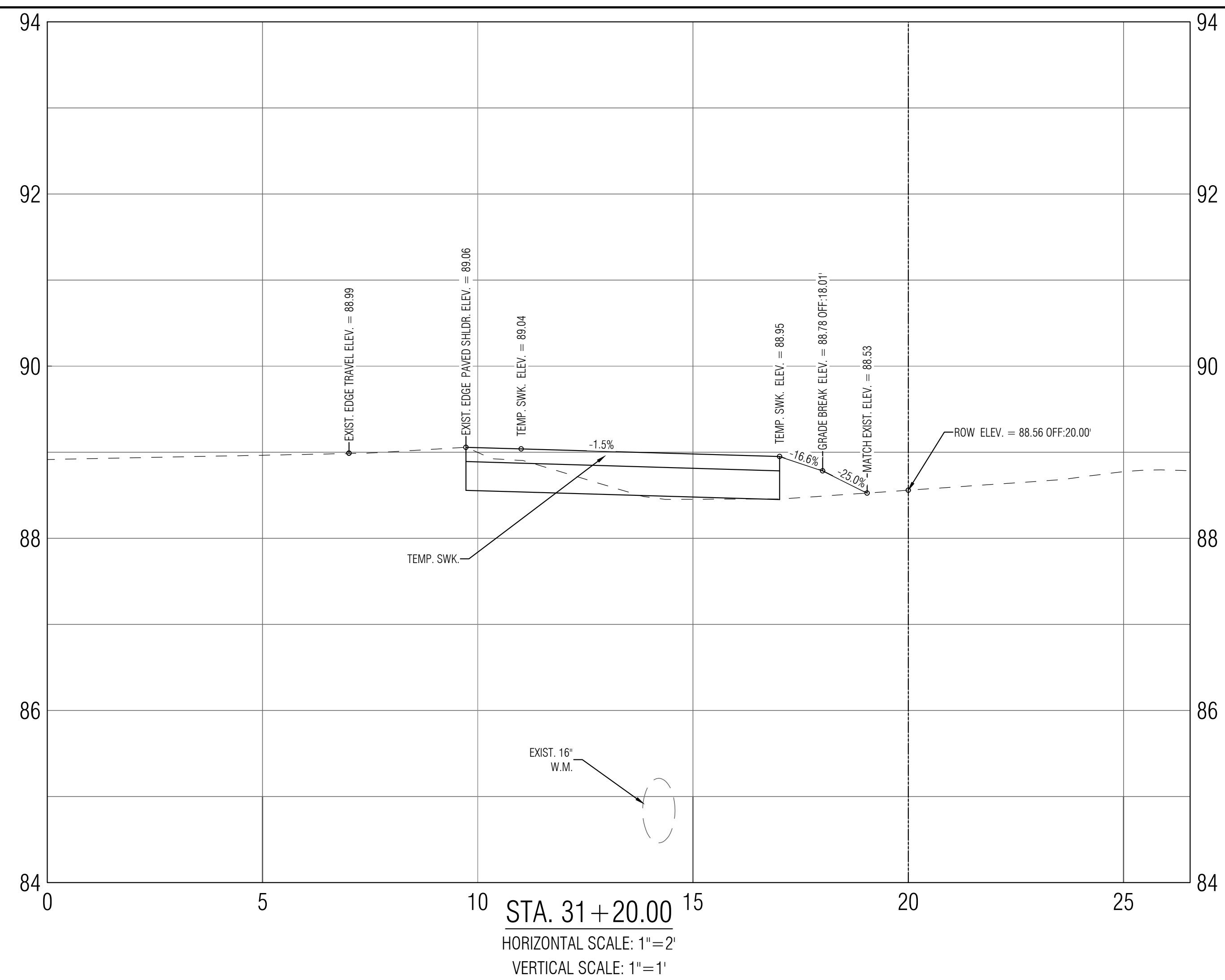
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DATE: JULY 26, 2024  
DESIGNED BY: BDB  
DRAWN BY: BDB  
CHECKED BY: DKB  
JOB NO.: 043862.081  
FILE NAME: 043862.081 Base  
Sheet DEC-01

Duane K. Booth, PE  
Registered Eng 44631



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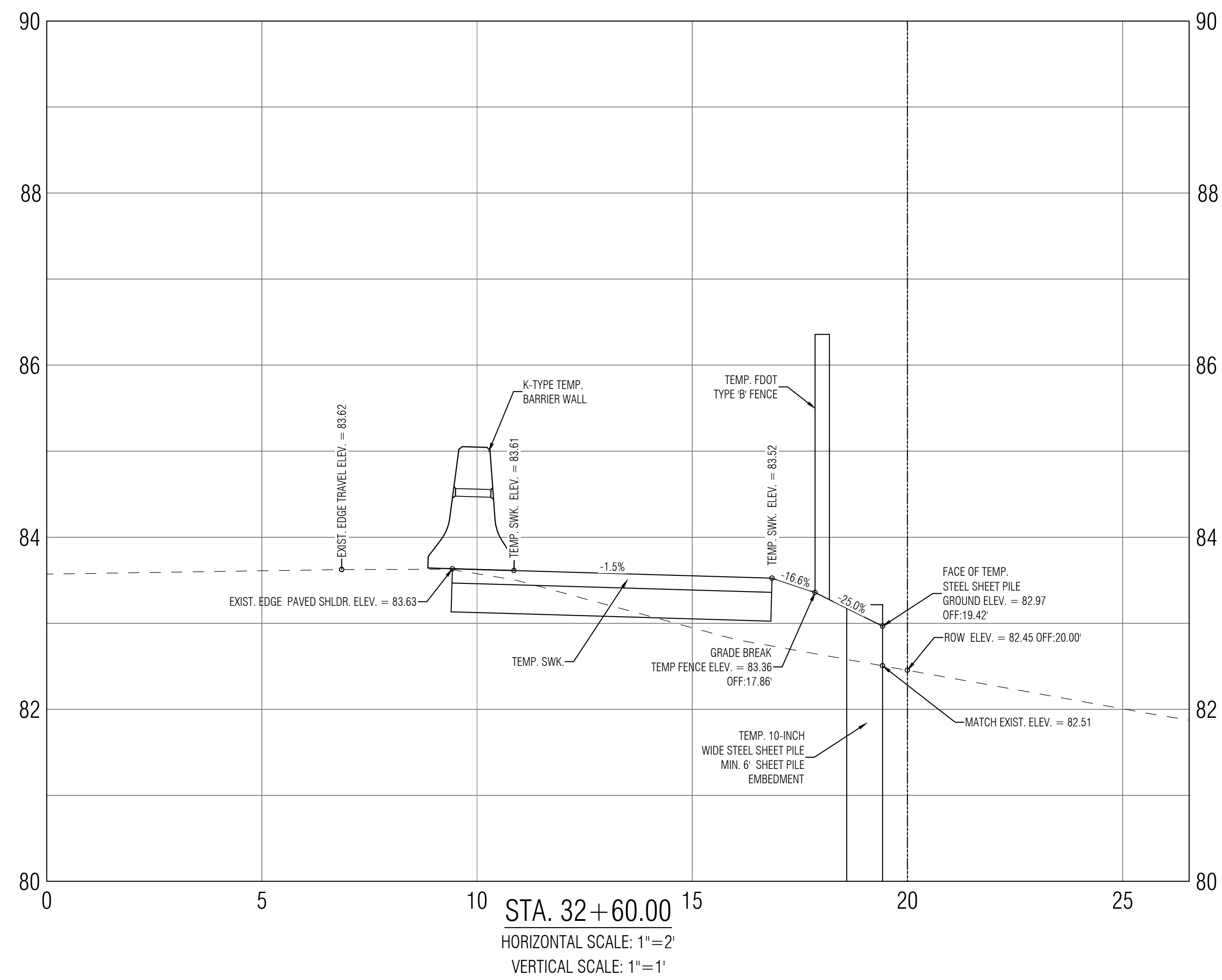
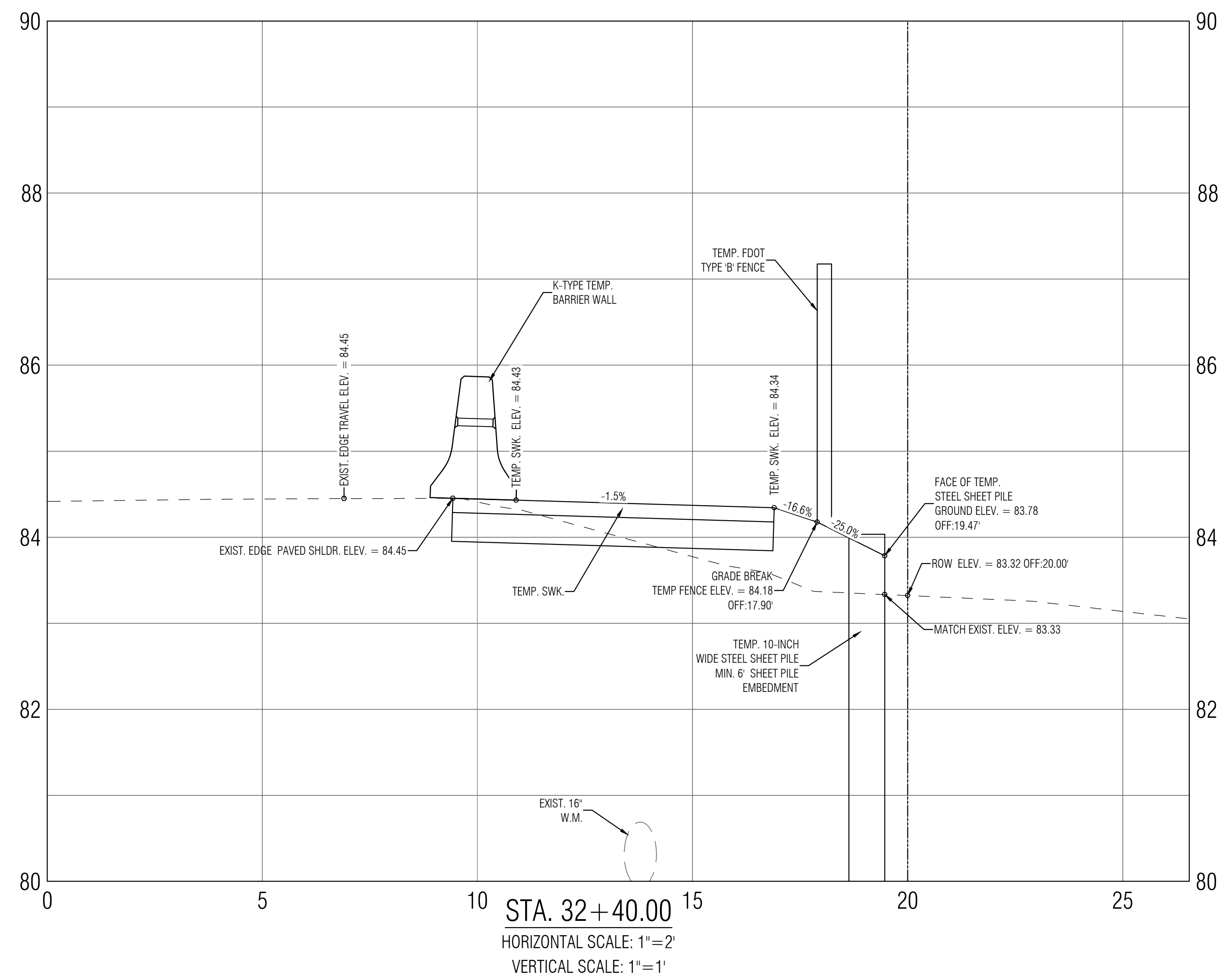
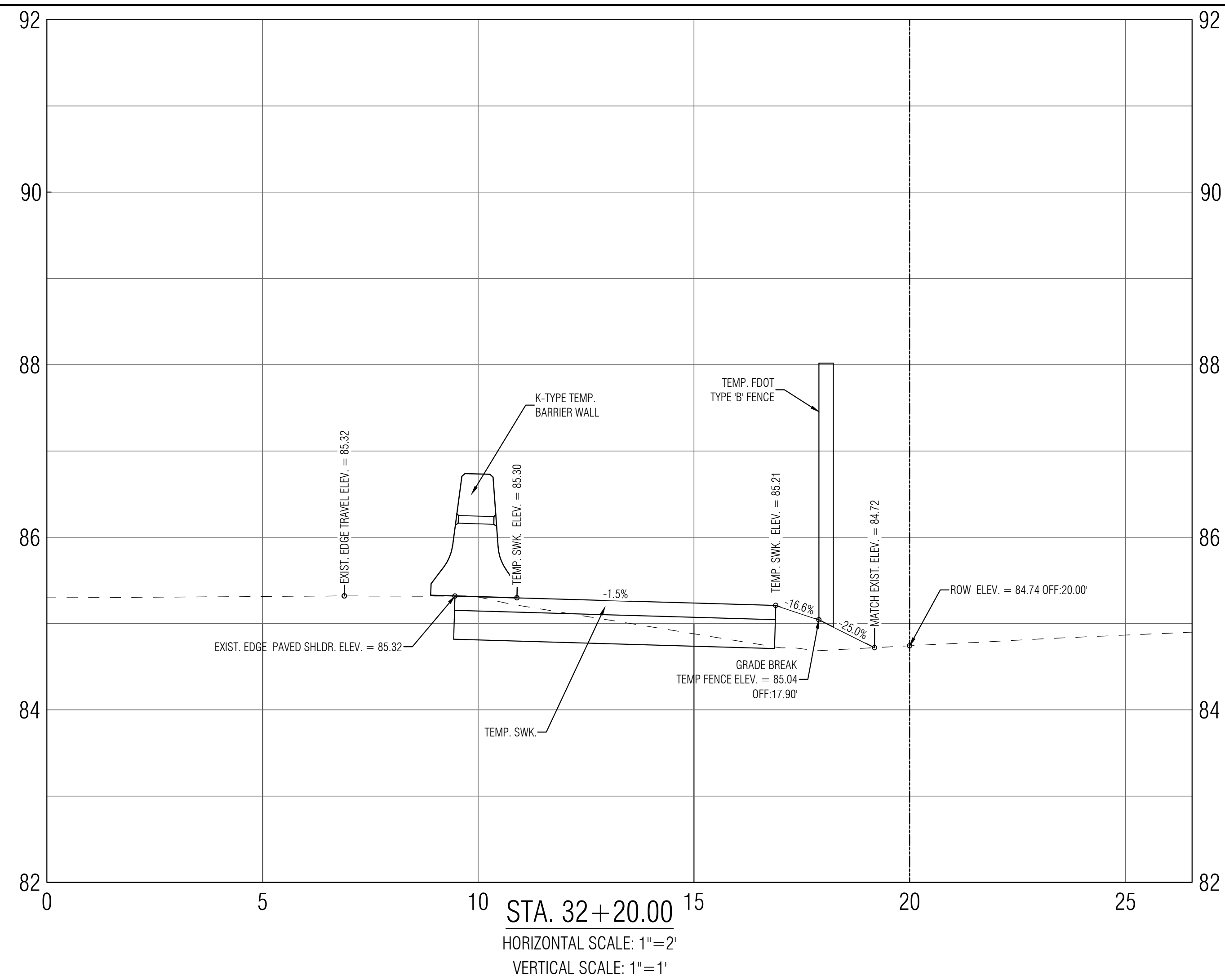
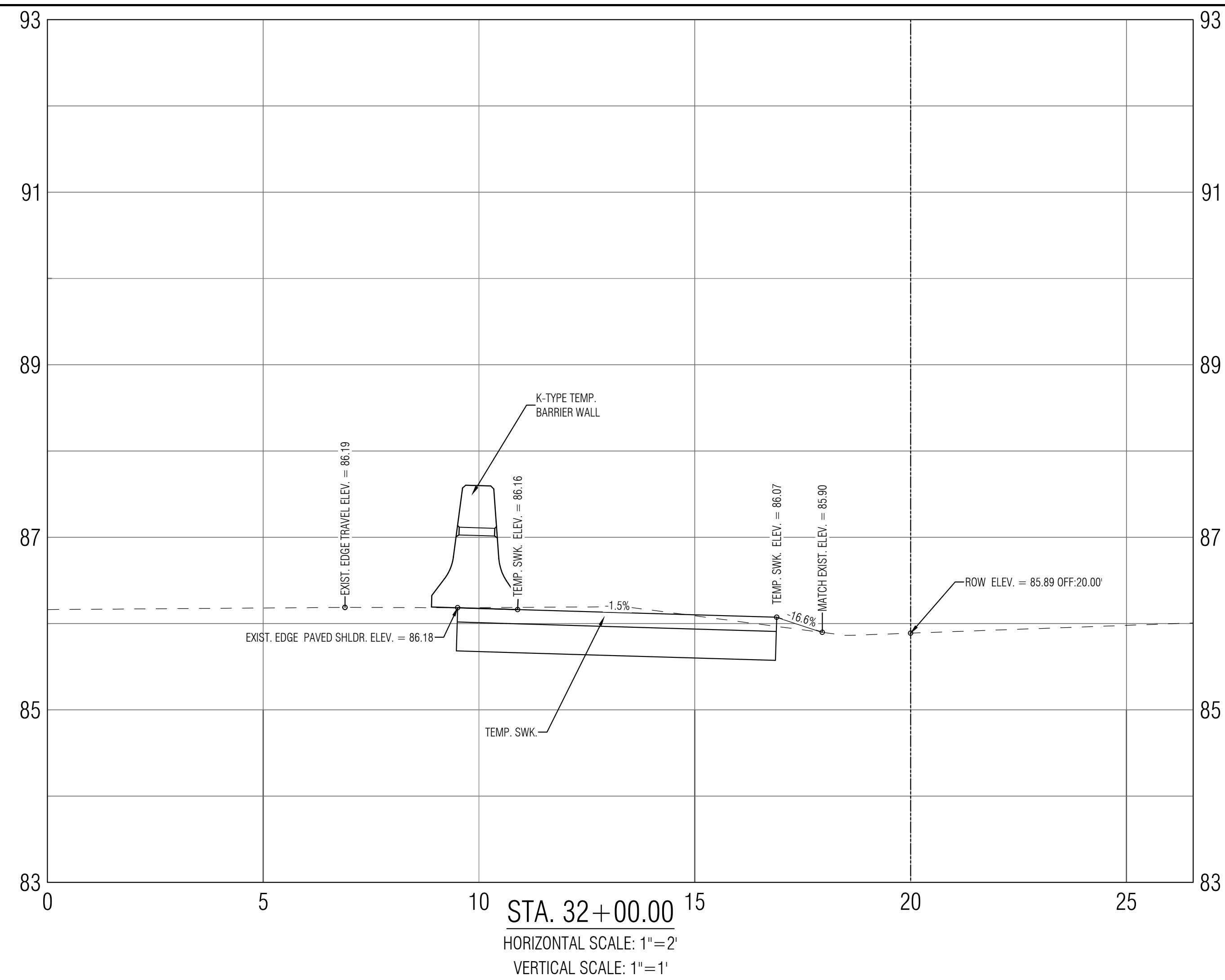
LAKE COUNTY, FLORIDA  
**CR 455 SOUTH LAKE TRAIL BOARDWALK**  
**CROSS SECTION SHEET (01)**



902 NORTH SINGLAI AVE  
 TAVARES, FLORIDA 32778  
 TEL: (352) 340-9461  
 CERTIFICATE OF AUTHORIZATION NUMBER: 33380

DATE:	JULY 26, 2024
DESIGNED BY:	BDB
DRAWN BY:	BDB
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JOB NO.:	043862.081
FILE NAME:	043862.081 Base
<b>Sheet CS-01</b>	

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LAKE COUNTY, FLORIDA  
CR 455 SOUTH LAKE TRAIL  
BOARDWALK  
CROSS SECTION  
SHEET (02)



**half**  
902 NORTH SINGLARK AVE  
TAVARES, FLORIDA 32778  
TEL: (352) 340-0461

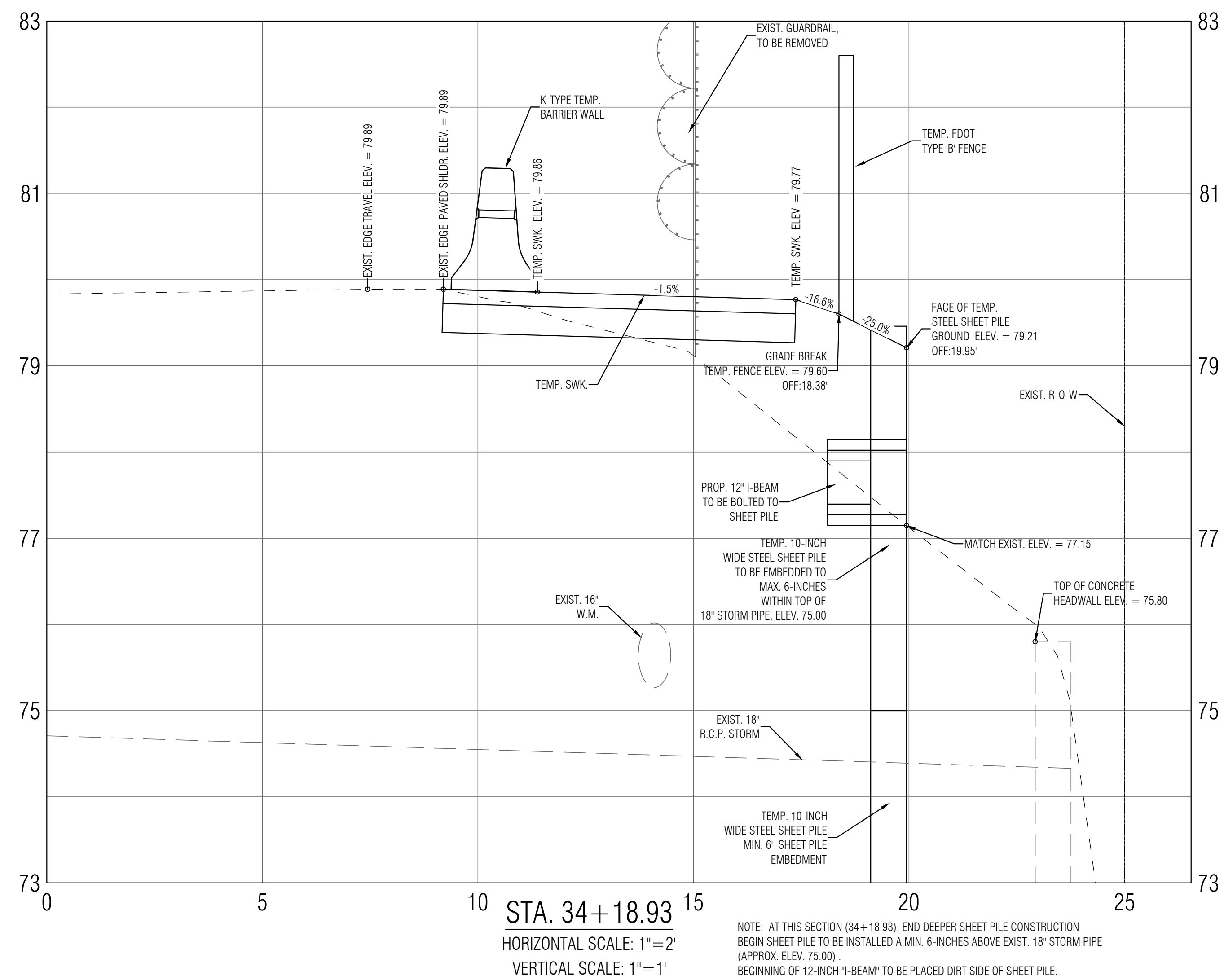
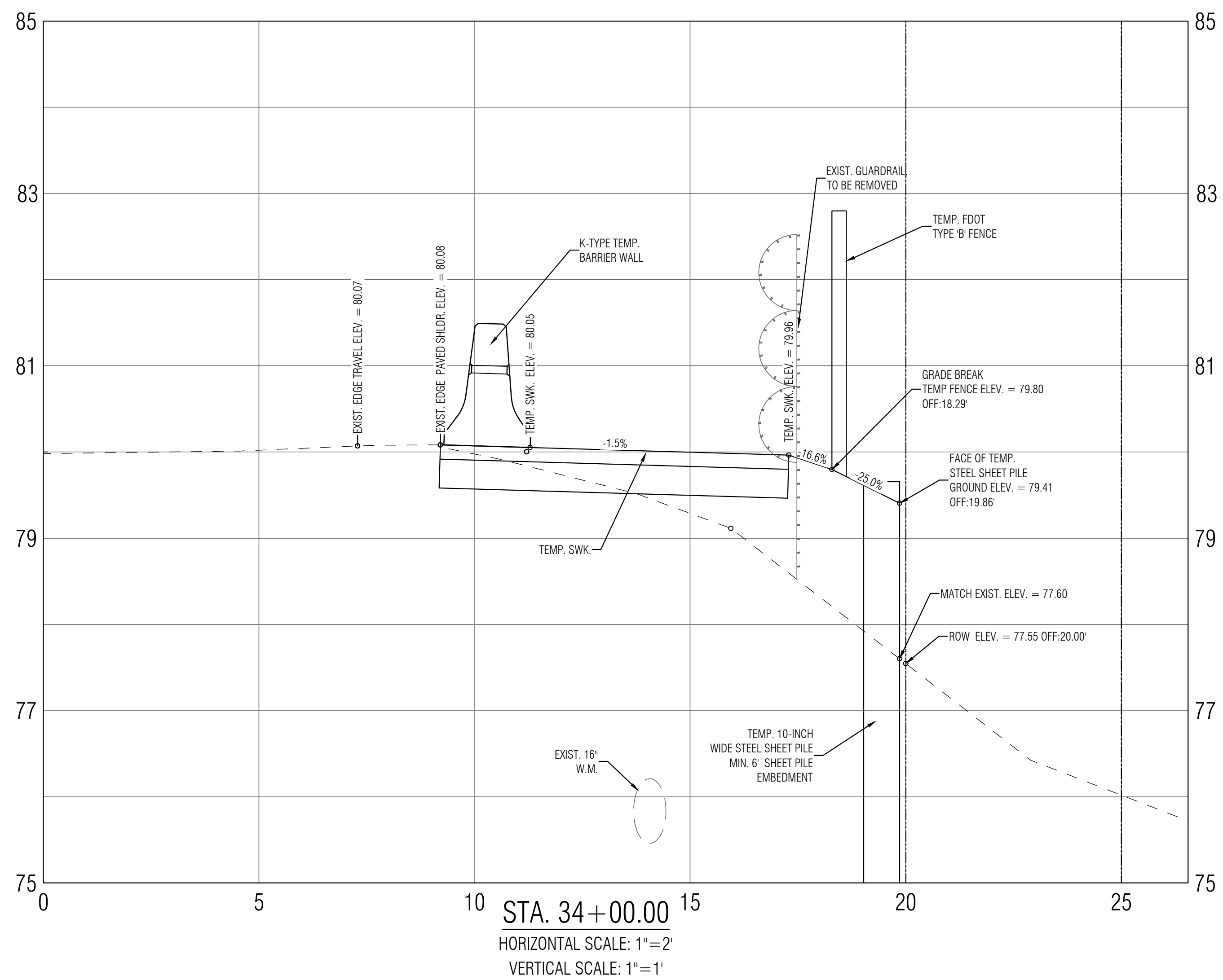
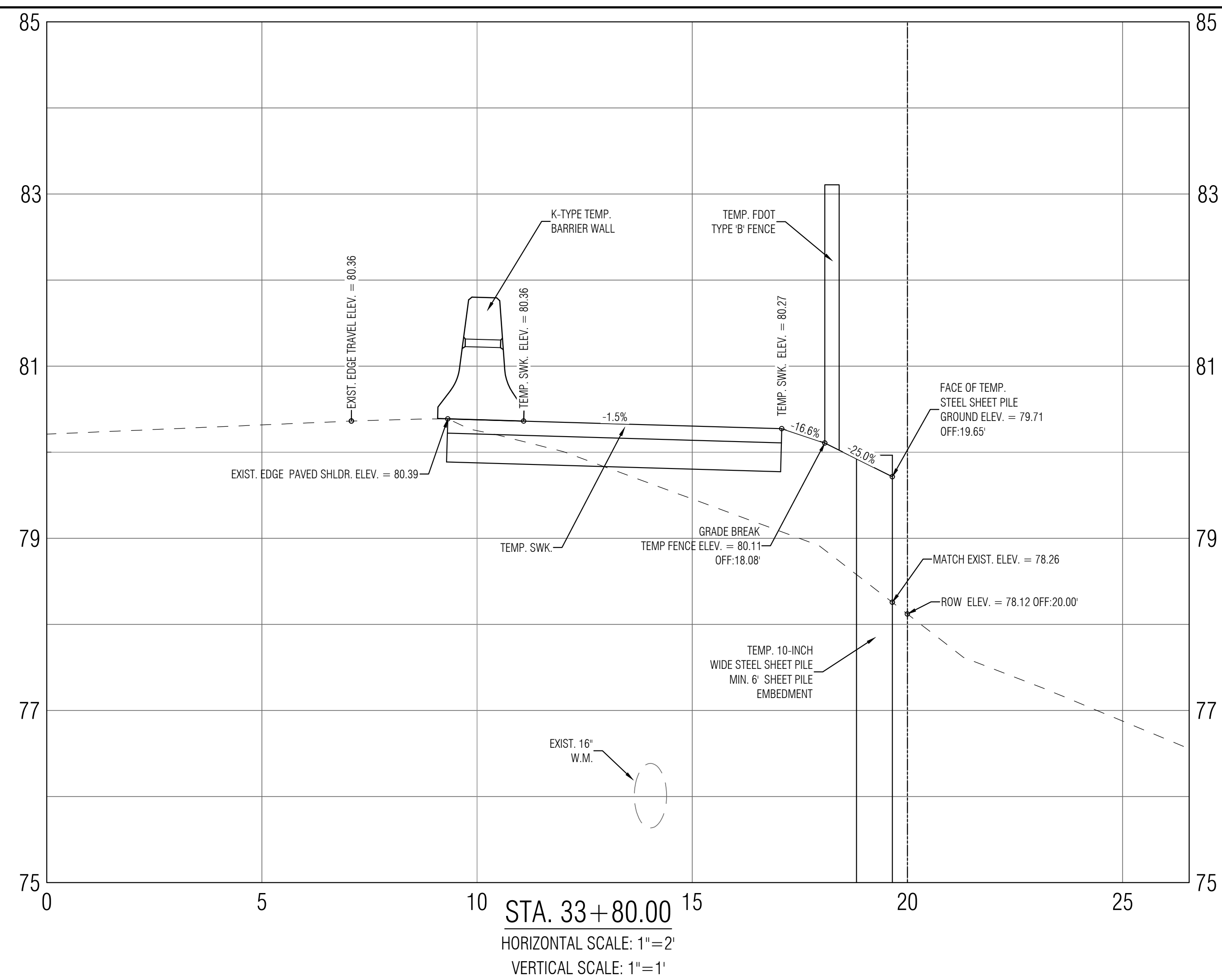
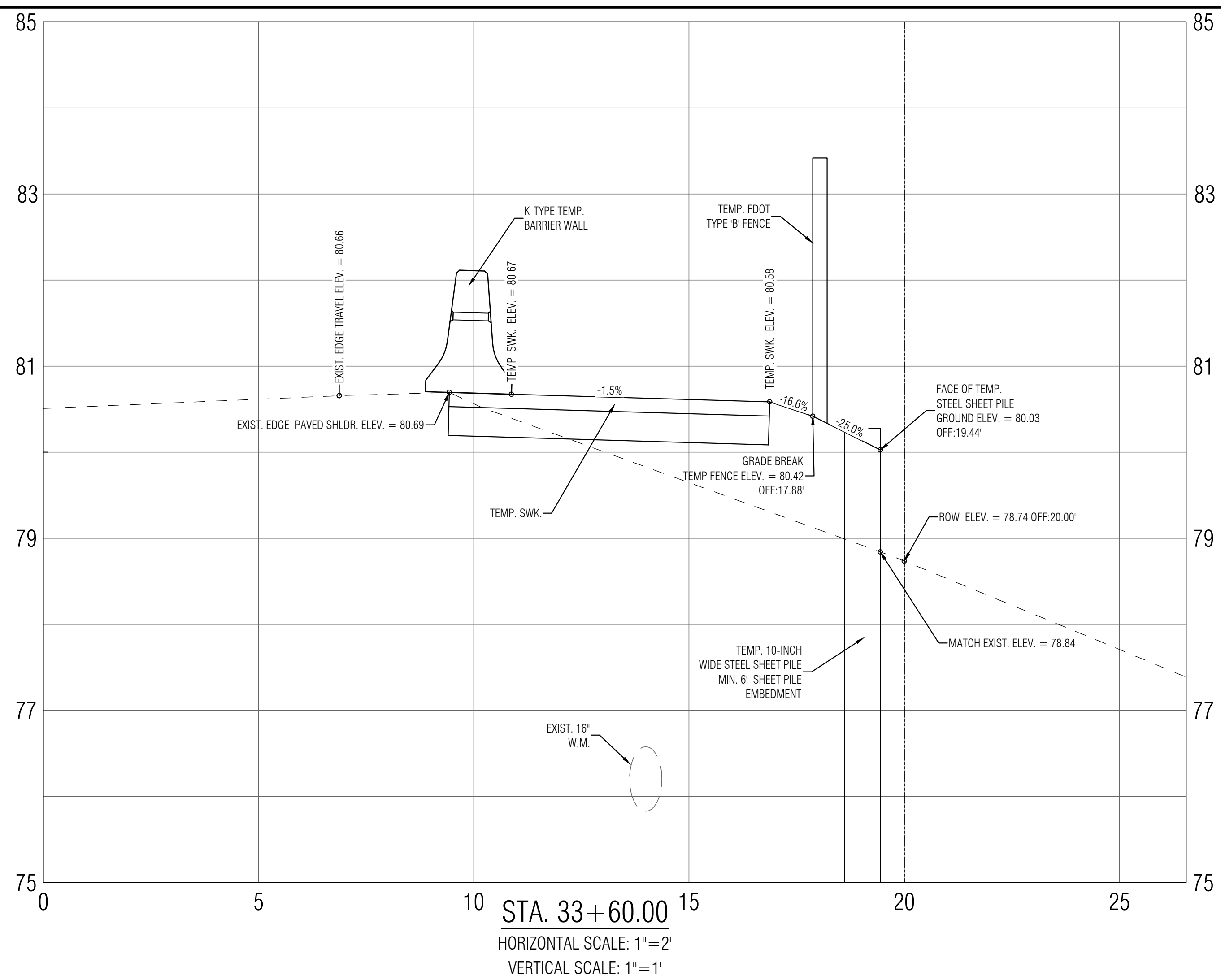
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JOB NO.: 043862.081  
FILE NAME: 043862.081 Base  
**Sheet CS-02**

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LAKE COUNTY, FLORIDA  
**CR 455 SOUTH LAKE TRAIL BOARDWALK**  
**CROSS SECTION SHEET (04)**



**half**  
 902 NORTH SINGLARI AVE  
 TAVARES, FLORIDA 32778  
 TEL: (352) 340-9461

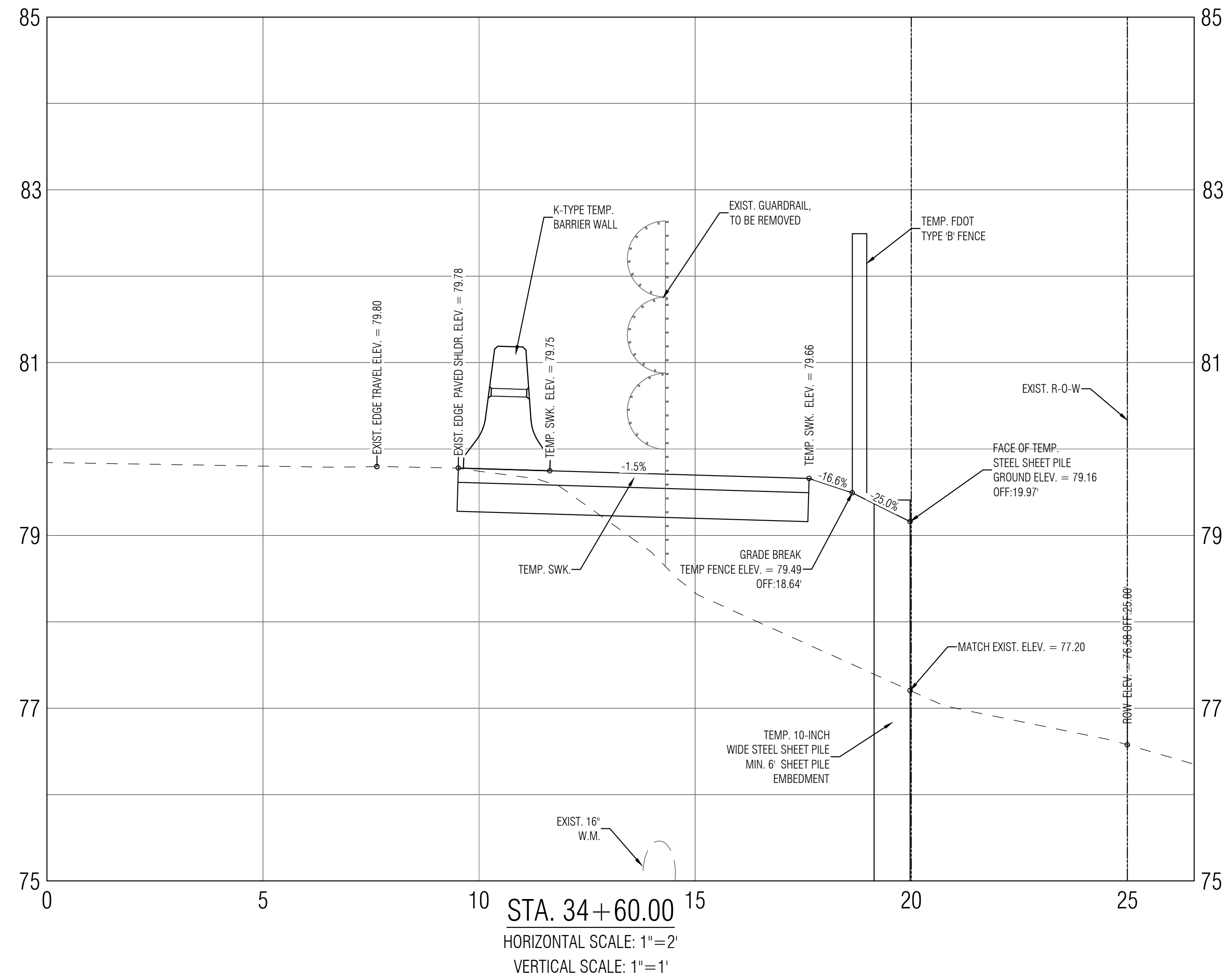
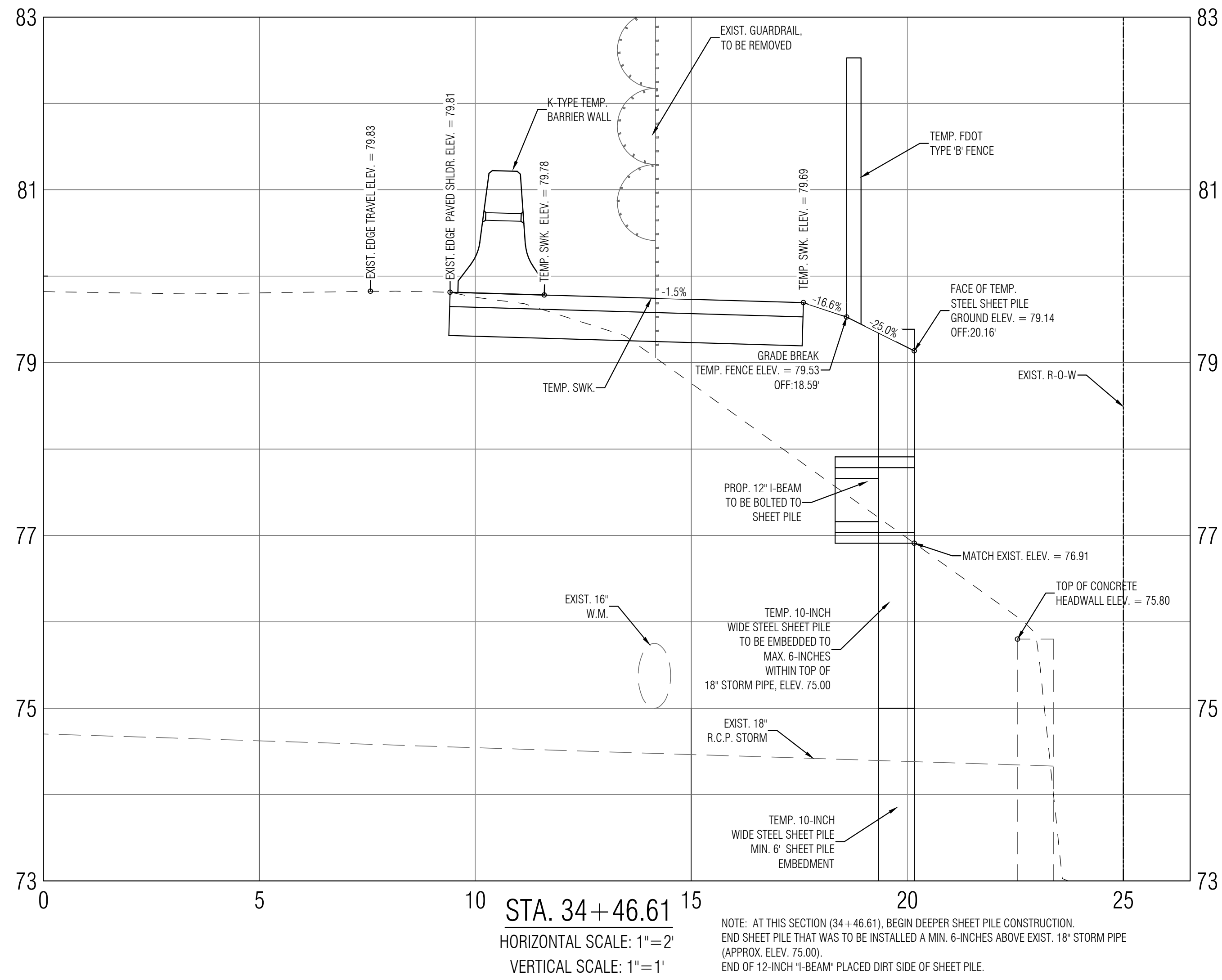
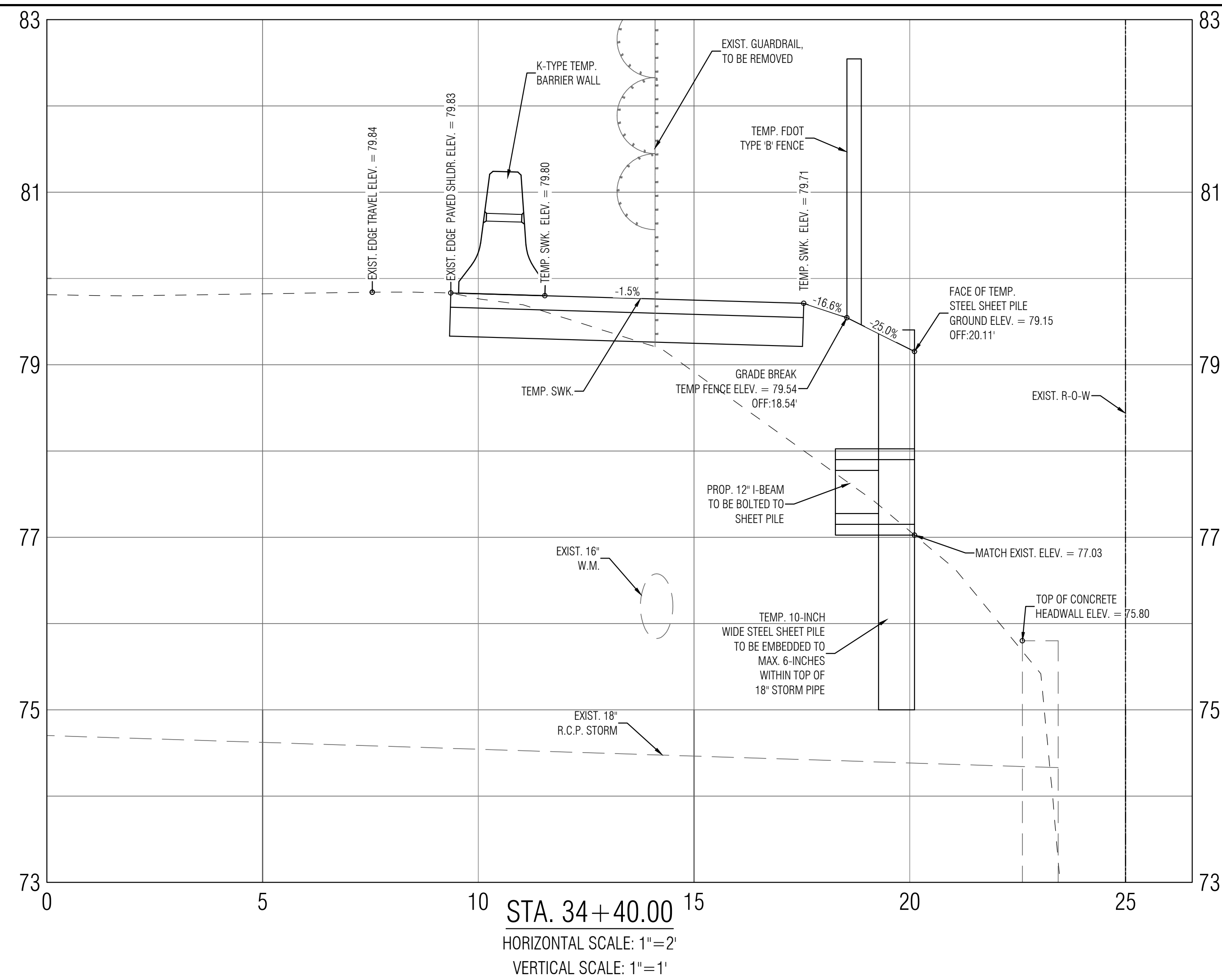
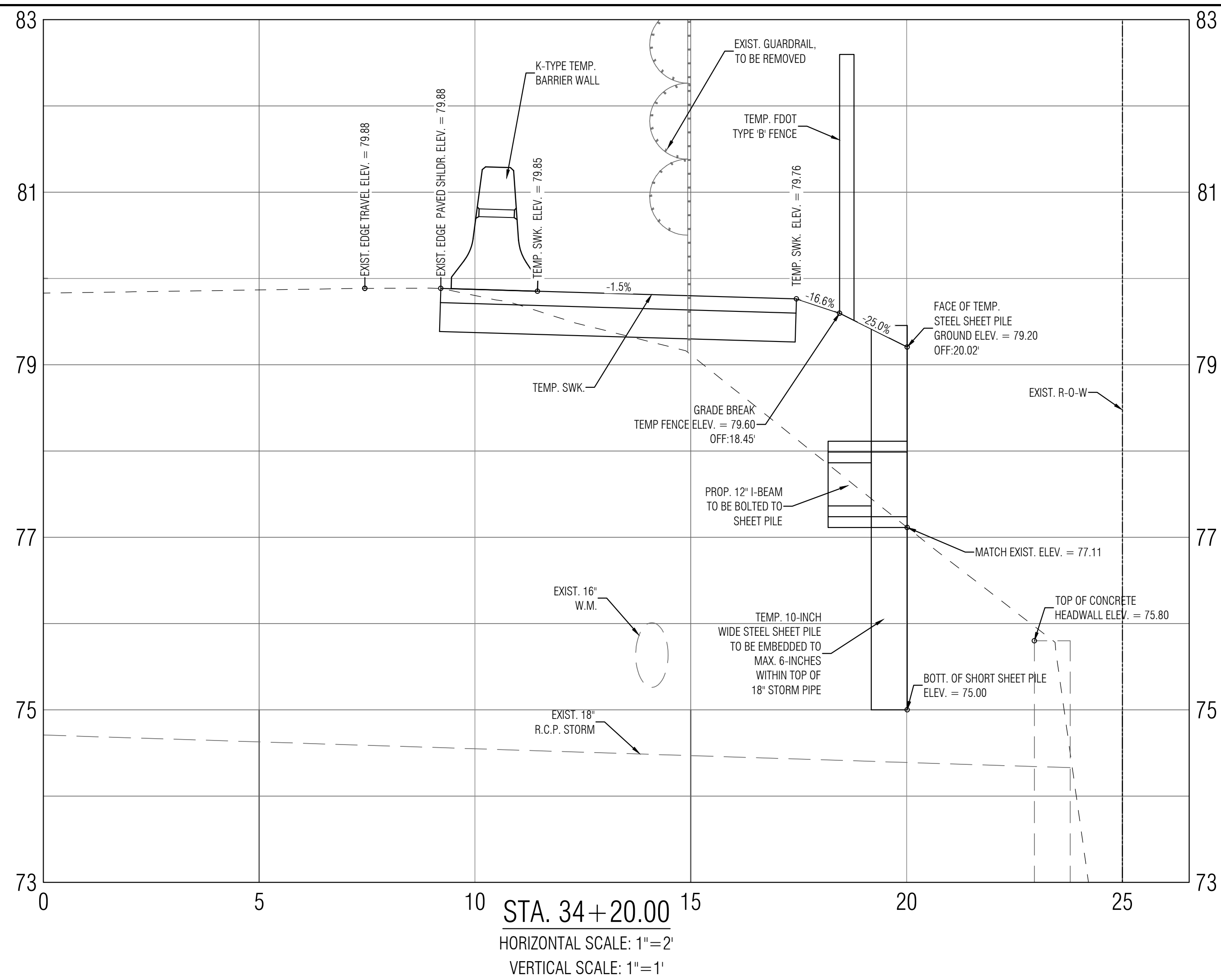
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**Sheet CS-04**

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LAKE COUNTY, FLORIDA  
CR 455 SOUTH LAKE TRAIL  
BOARDWALK  
CROSS SECTION  
SHEET (05)



**half**  
902 NORTH SINGLARS AVE  
TAVARES, FLORIDA 32778  
TEL: (352) 340-0461

CERTIFICATE OF AUTHORIZATION NUMBER: 30380

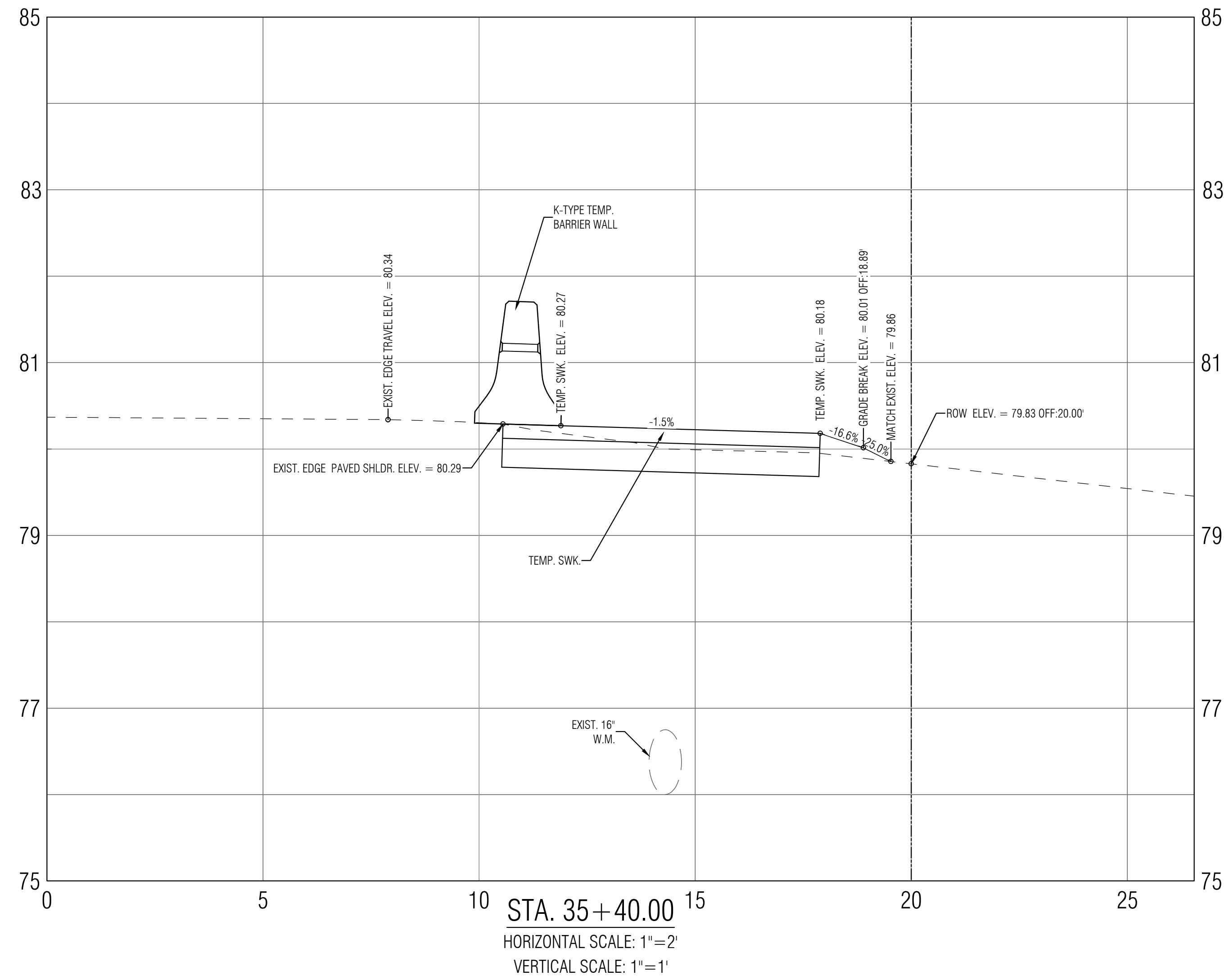
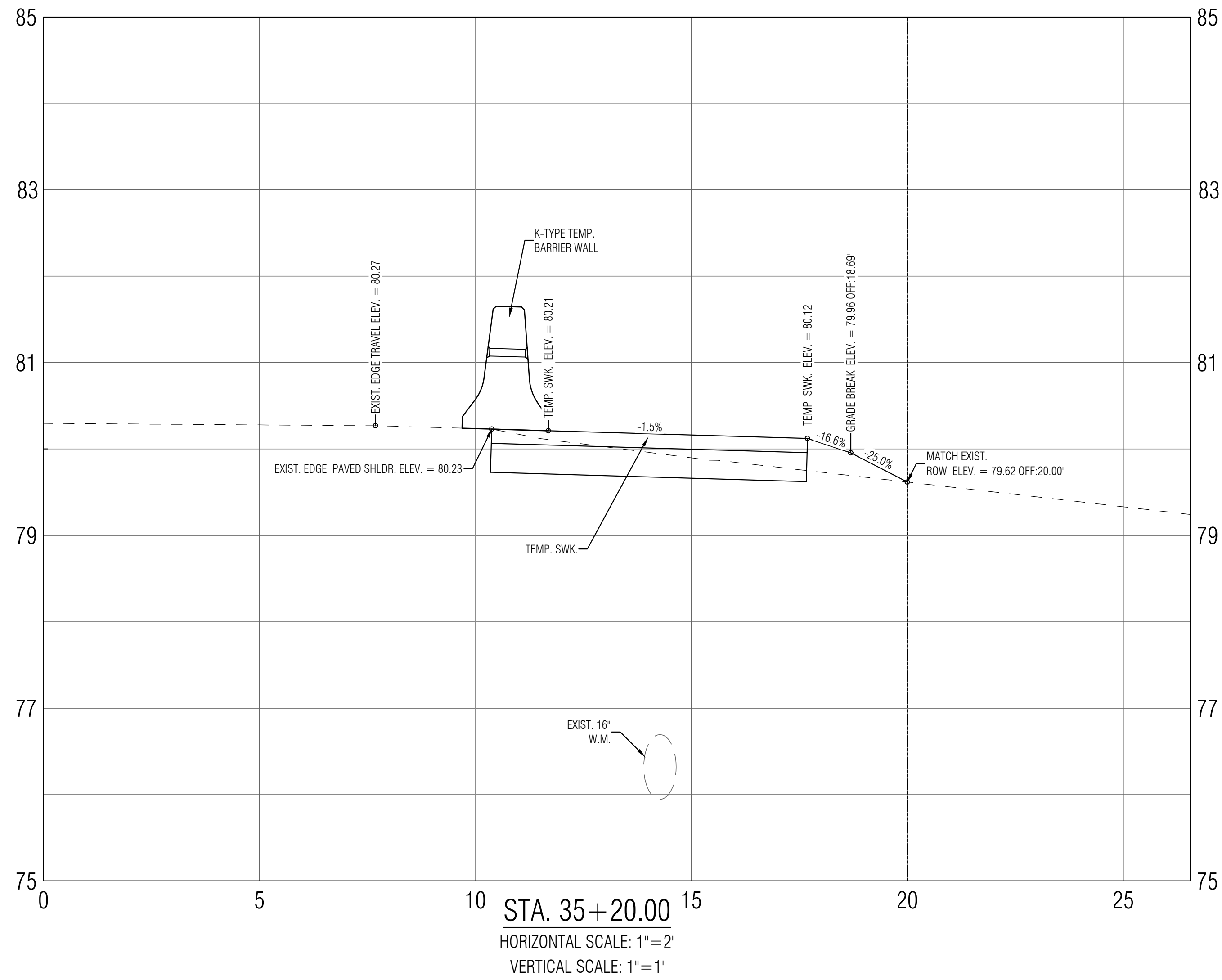
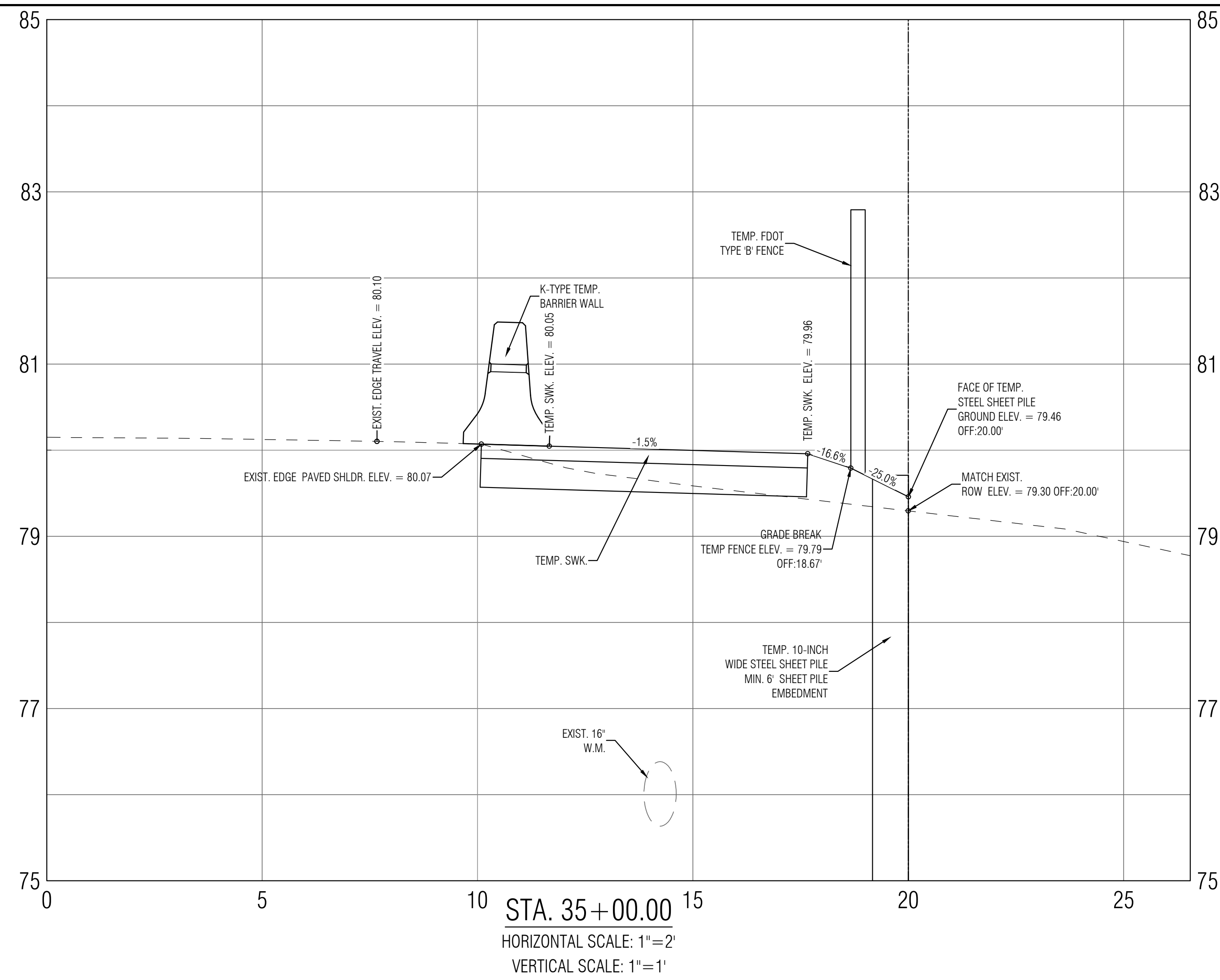
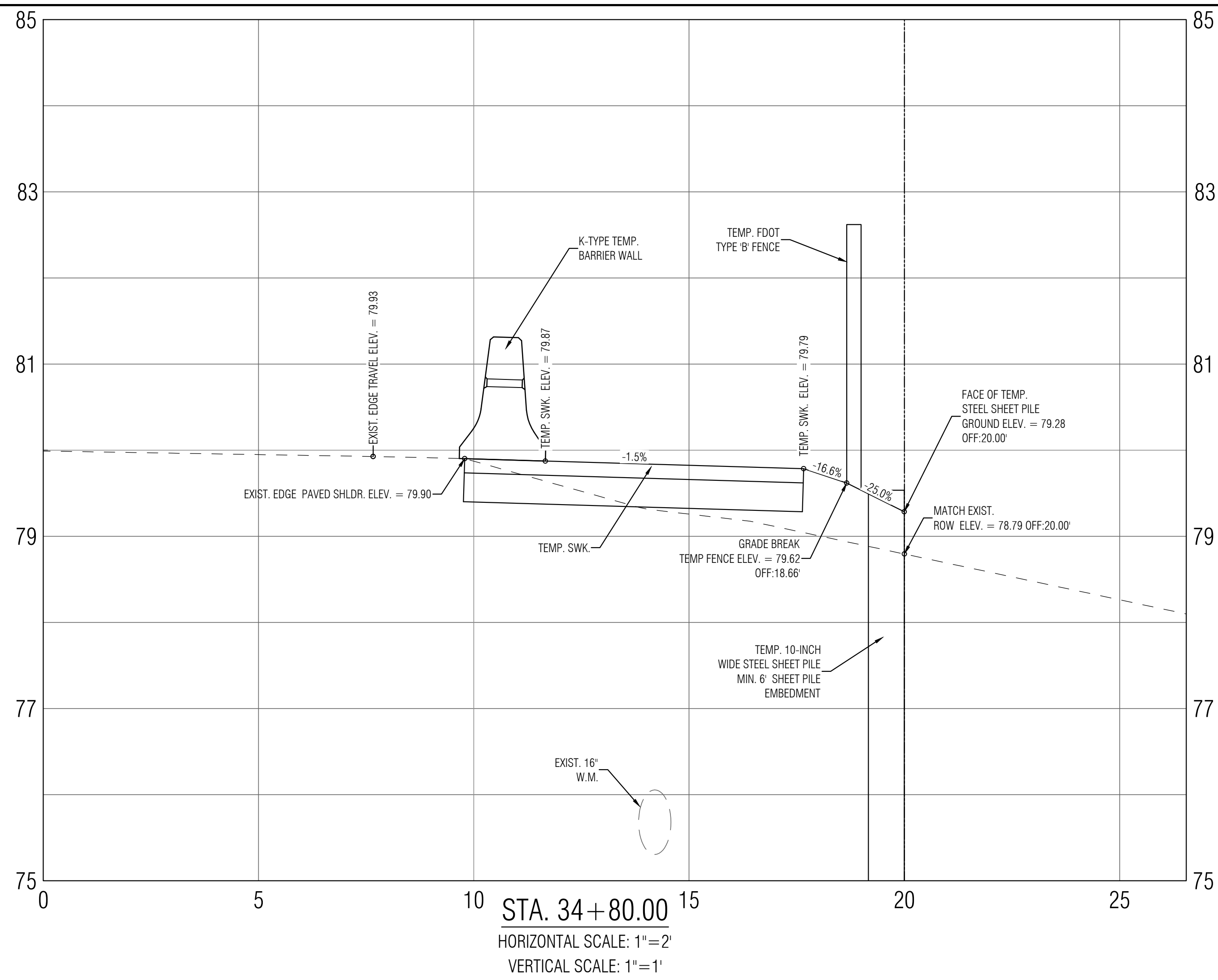
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Sheet CS-05

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LAKE COUNTY, FLORIDA  
CR 455 SOUTH LAKE TRAIL  
BOARDWALK  
CROSS SECTION  
SHEET (06)



**half**  
902 NORTH SINGLAI AVE  
TAVARES, FLORIDA 32778  
TEL: (352) 340-6461

CERTIFICATE OF AUTHORIZATION NUMBER: 30380

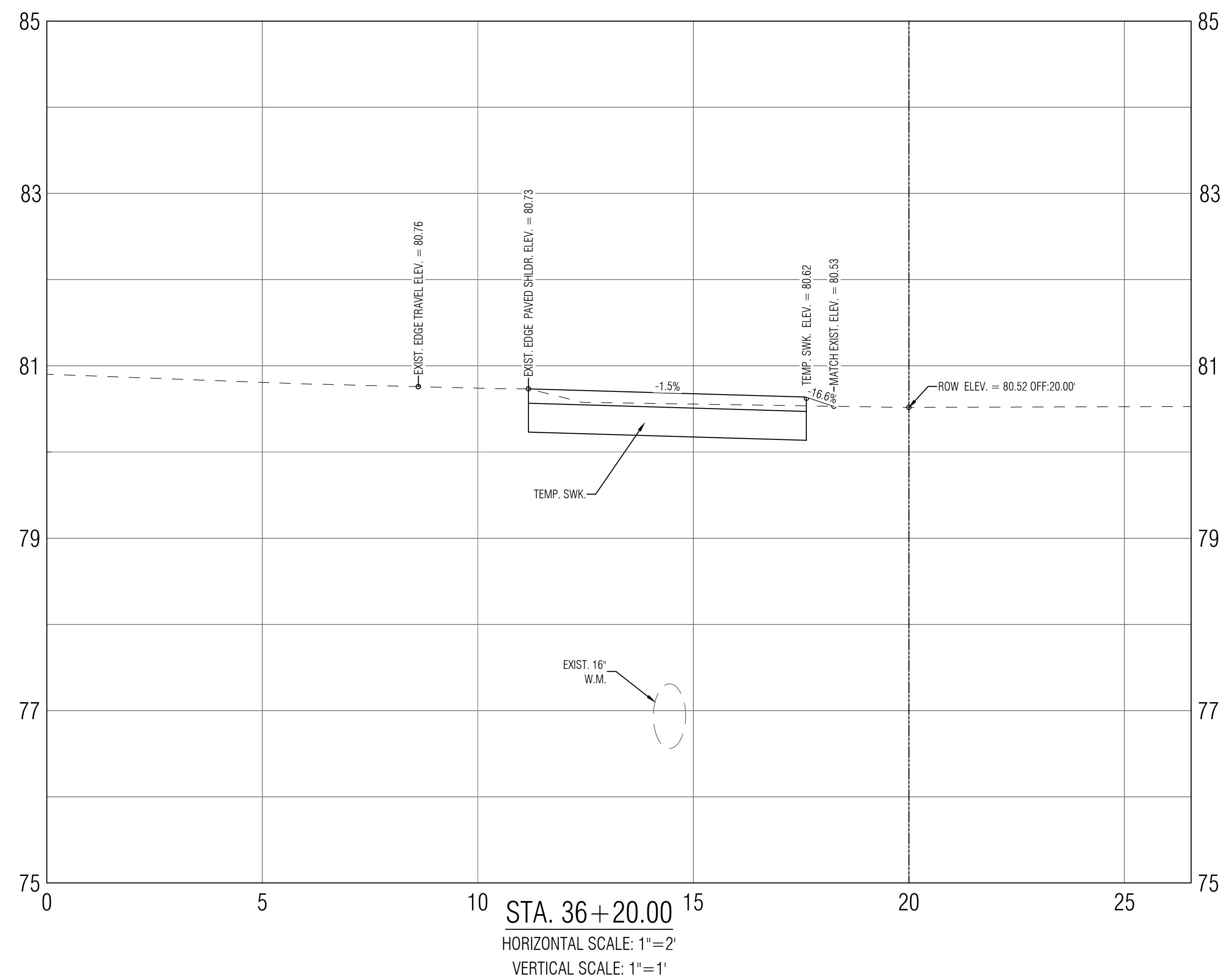
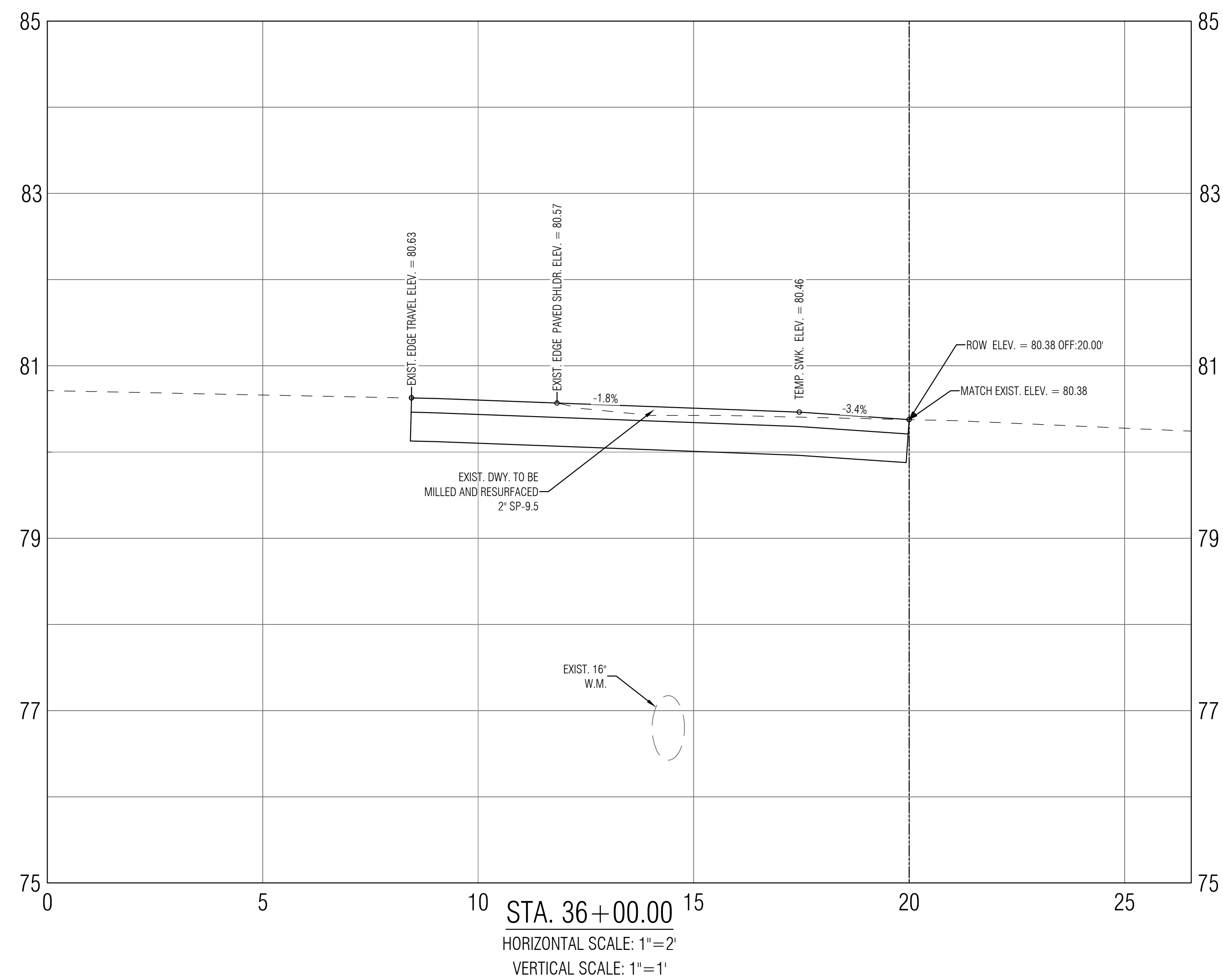
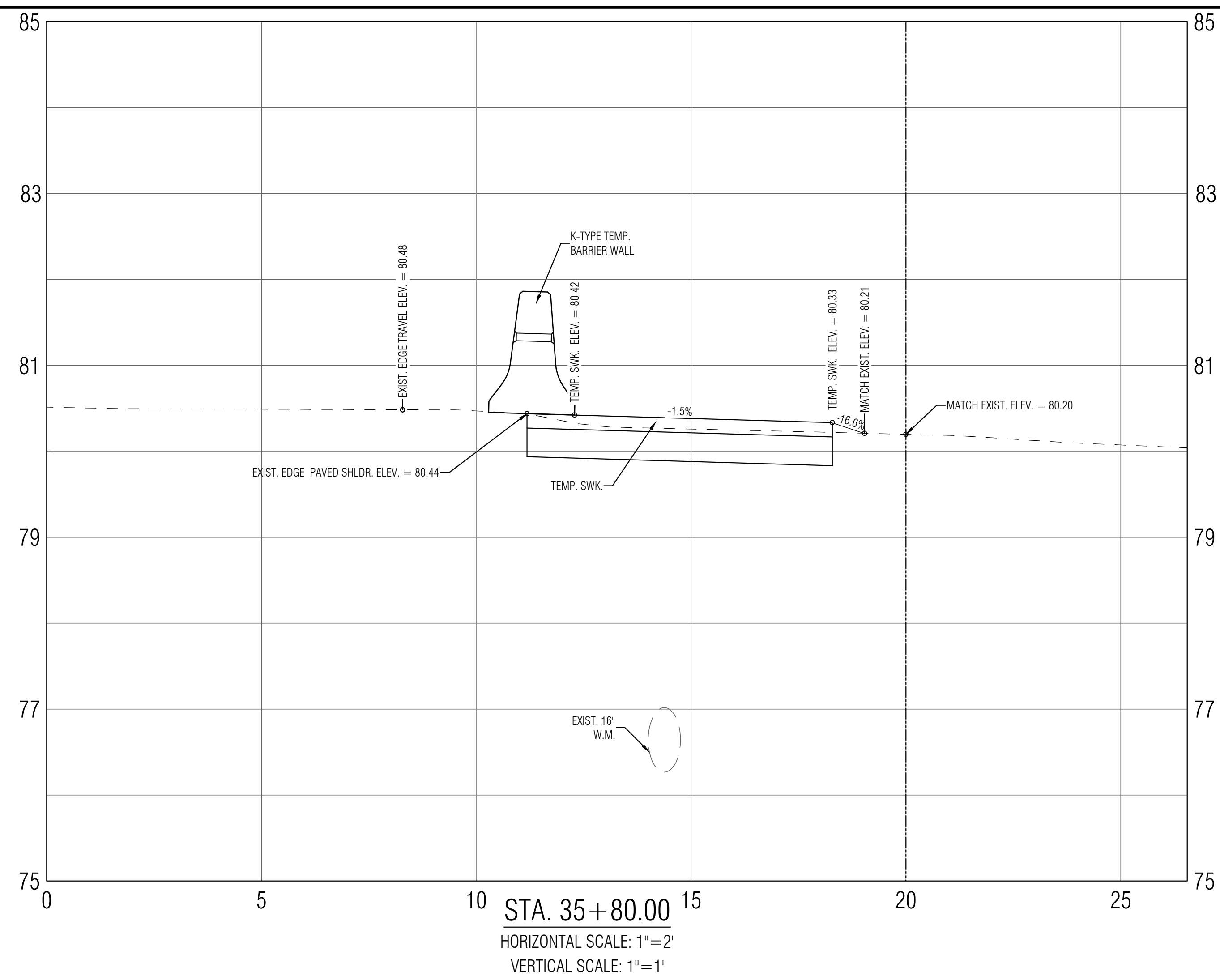
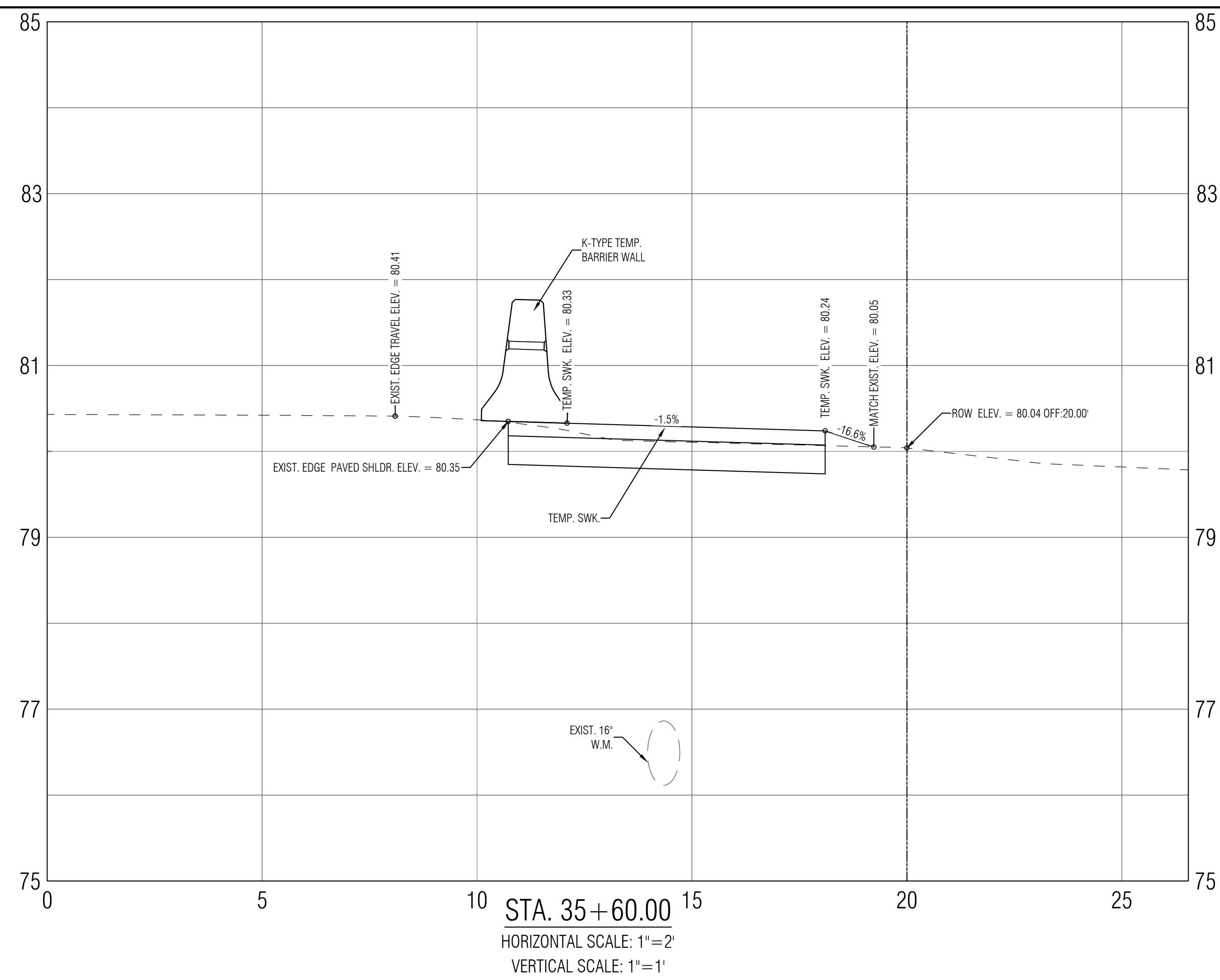
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Sheet CS-06

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LAKE COUNTY, FLORIDA  
**CR 455 SOUTH LAKE TRAIL BOARDWALK**  
**CROSS SECTION SHEET (07)**



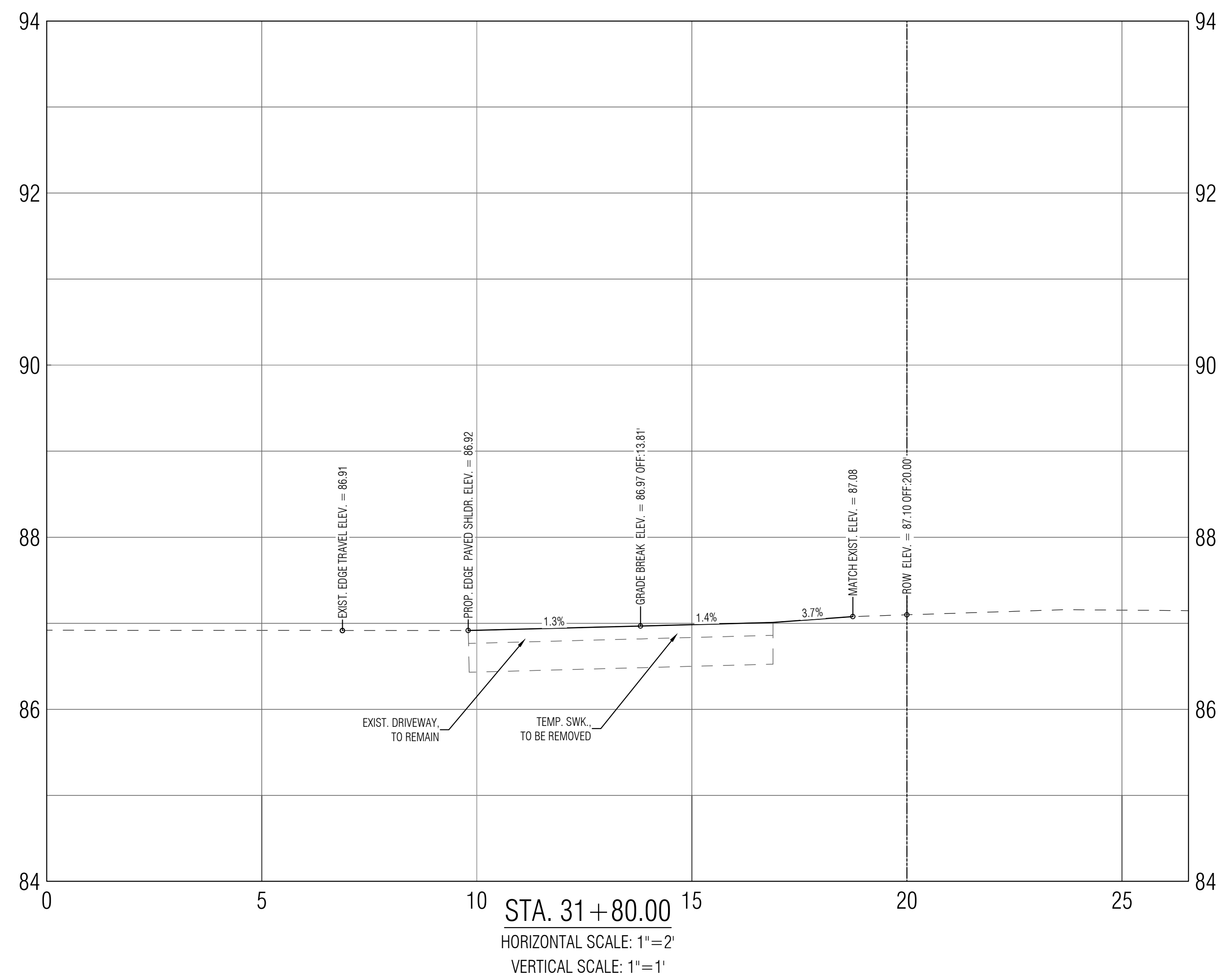
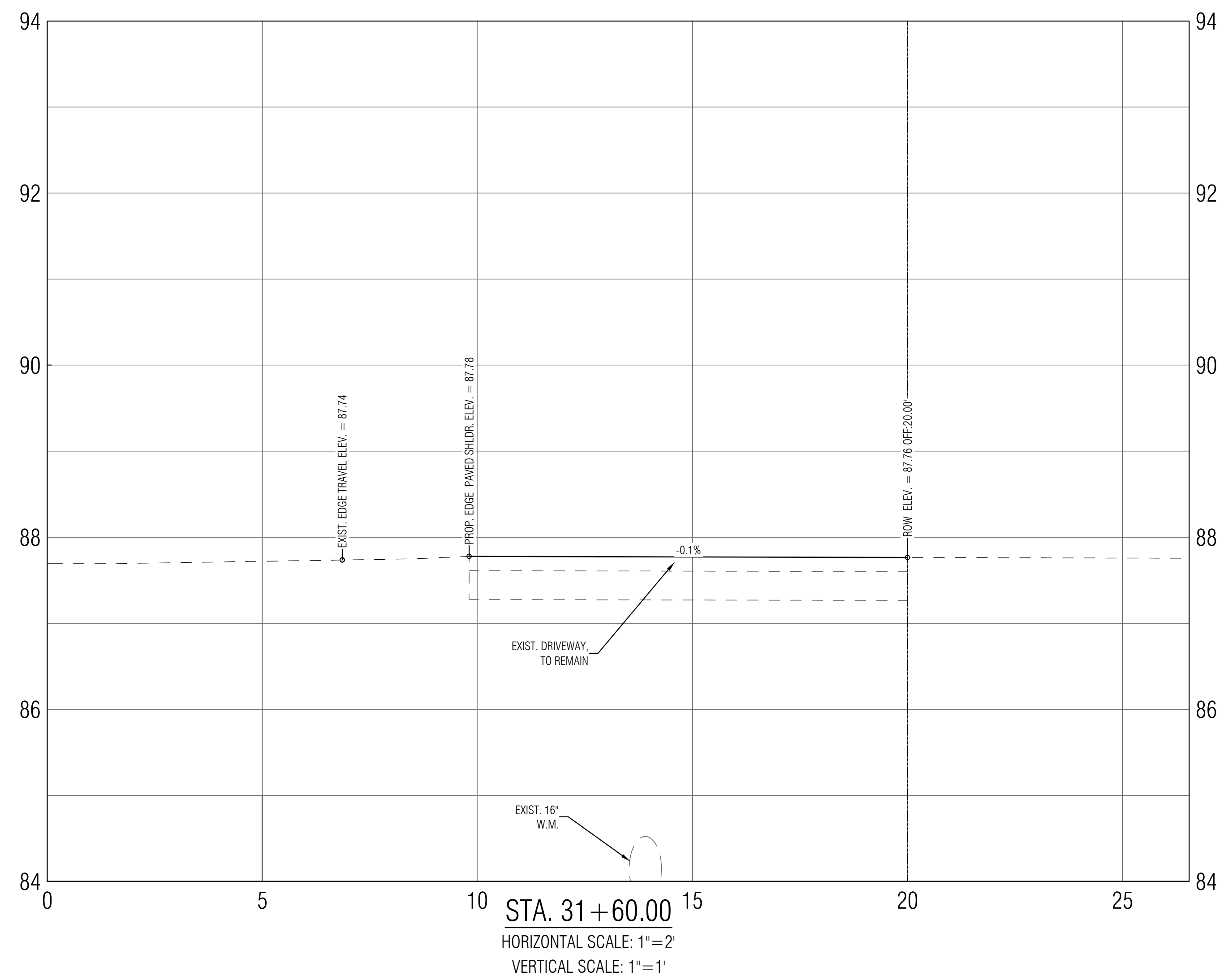
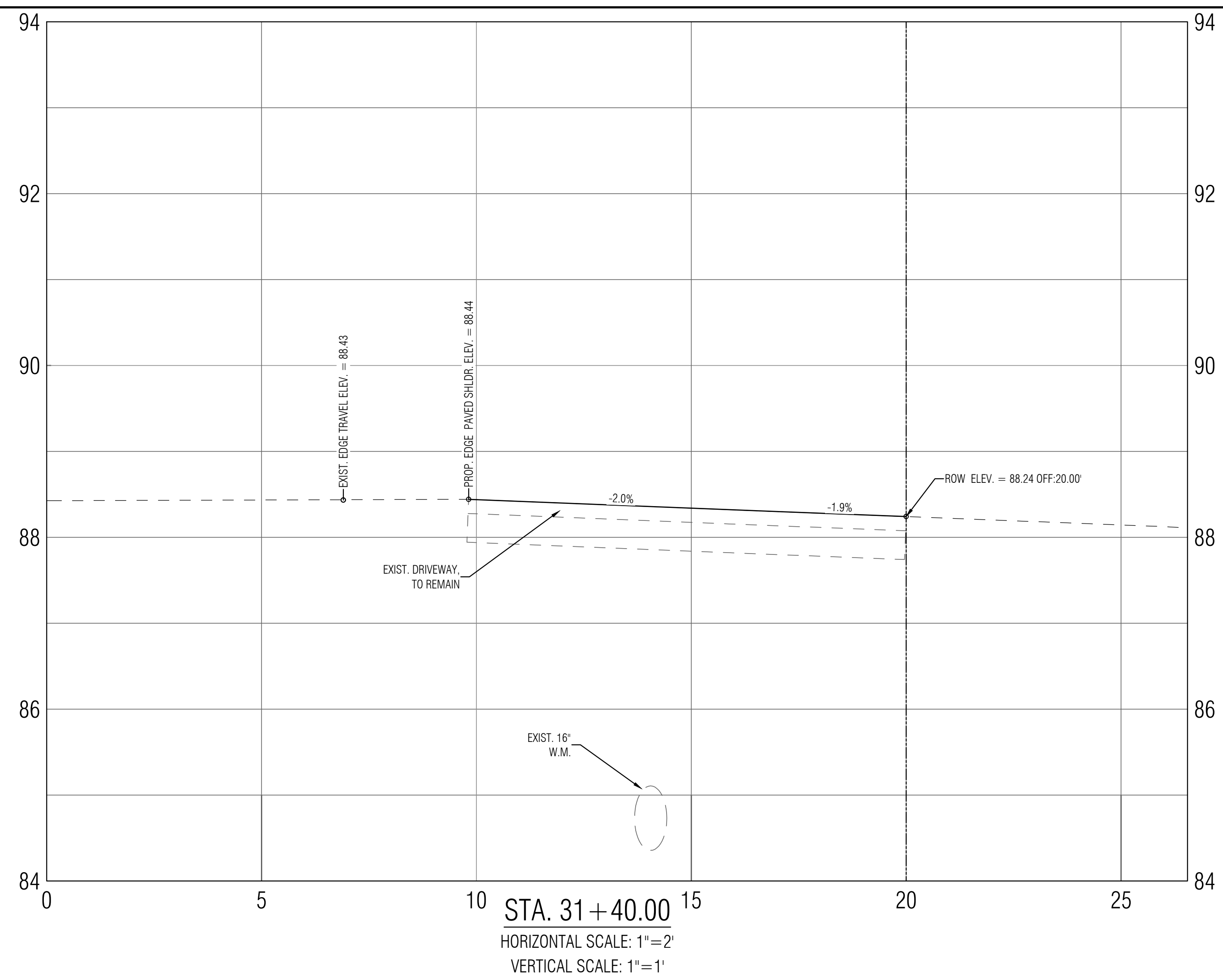
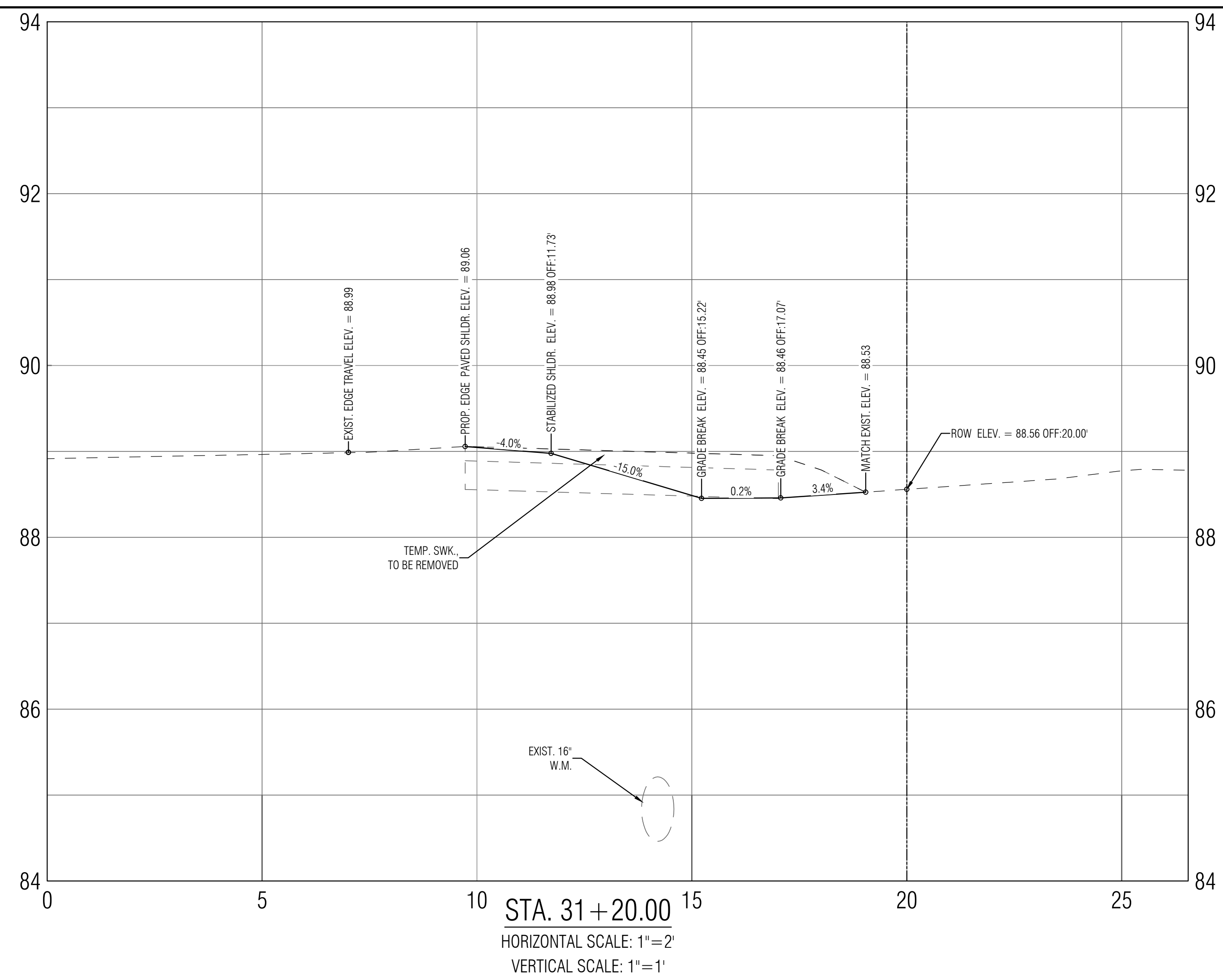
902 NORTH SINGLAIER AVE  
 TAVARES, FLORIDA 32778  
 TEL: (352) 340-0461  
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<b>Sheet CS-07</b>	

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LAKE COUNTY, FLORIDA  
CR 455 SOUTH LAKE TRAIL BOARDWALK  
CROSS SECTION FINAL SHEET (01)



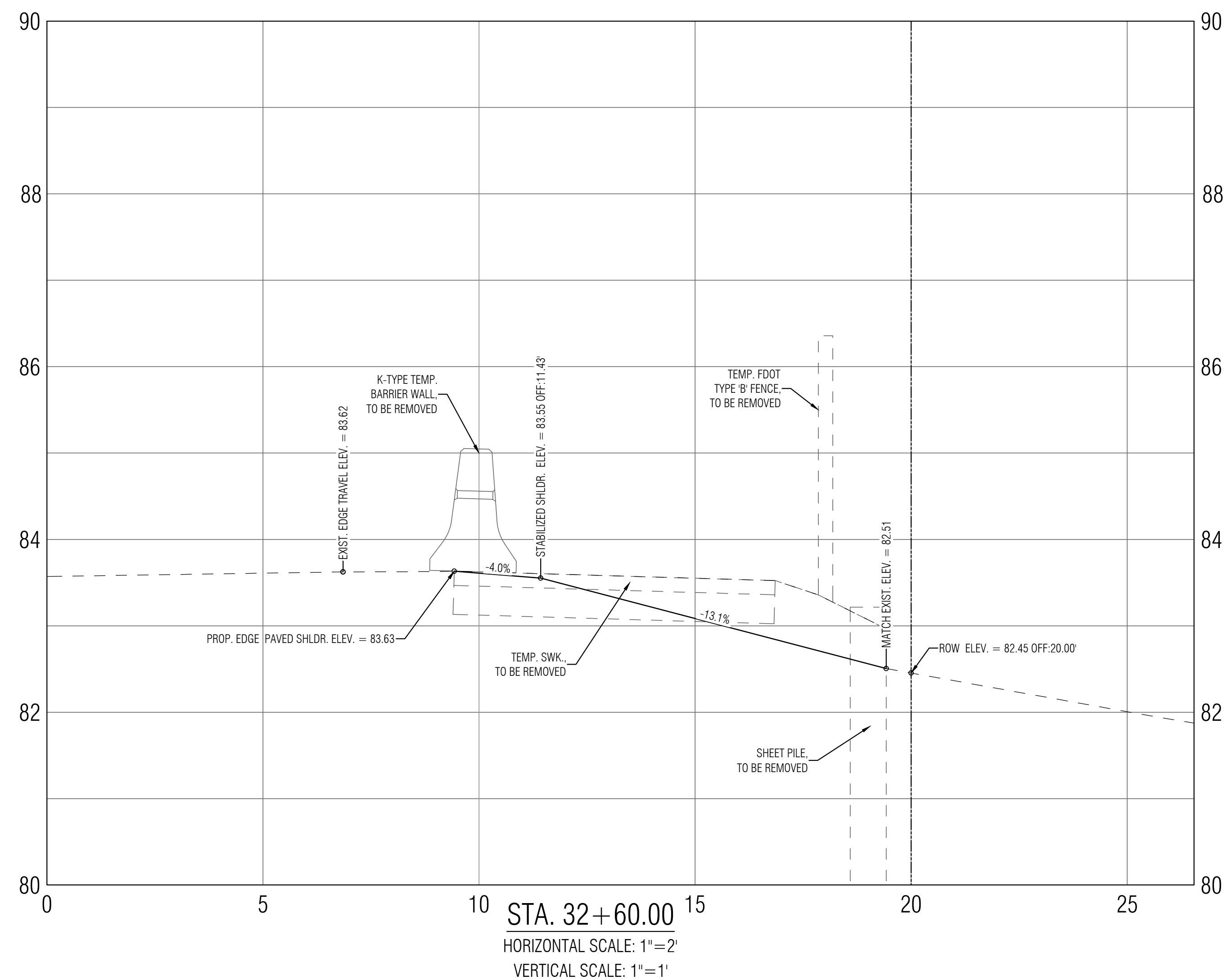
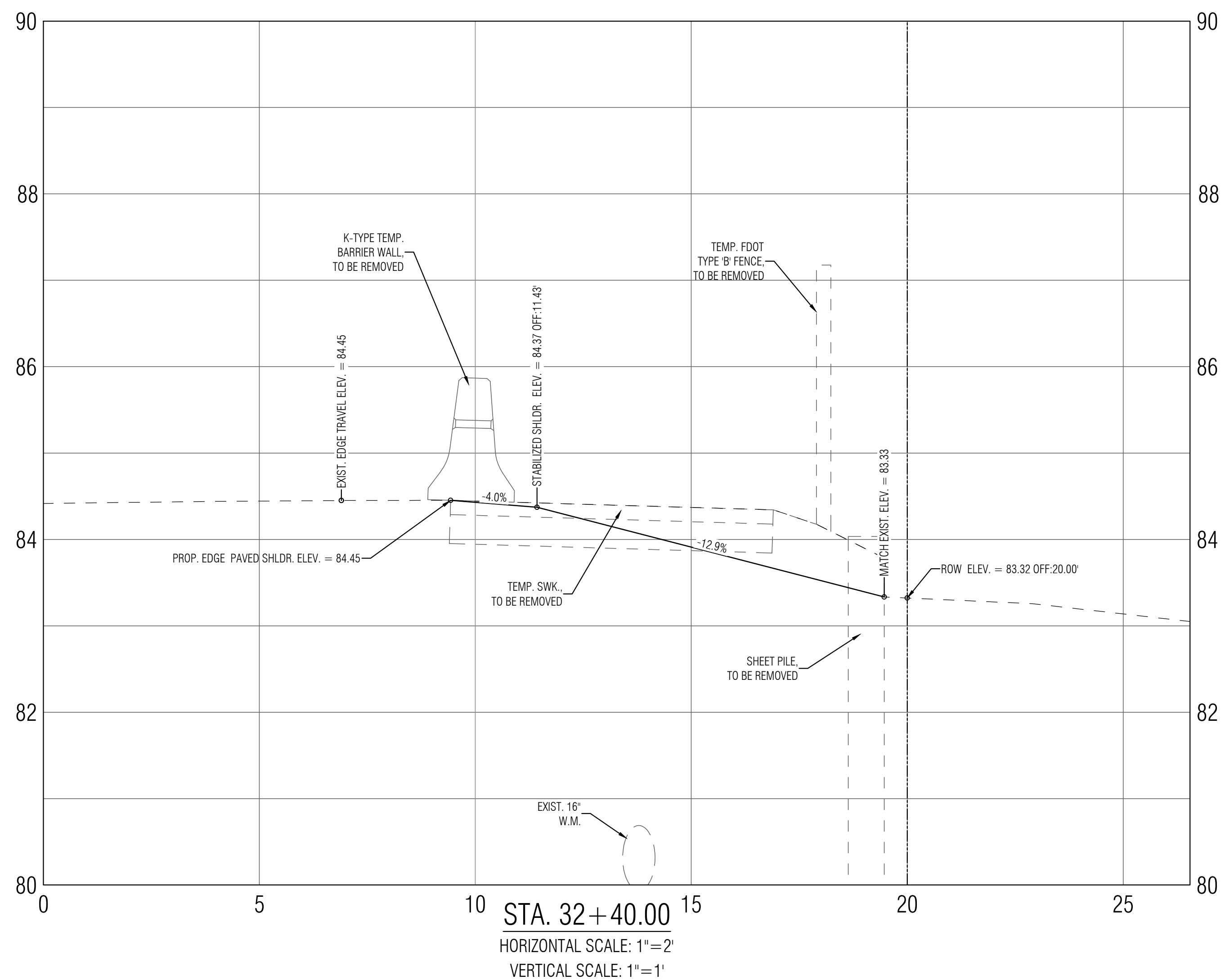
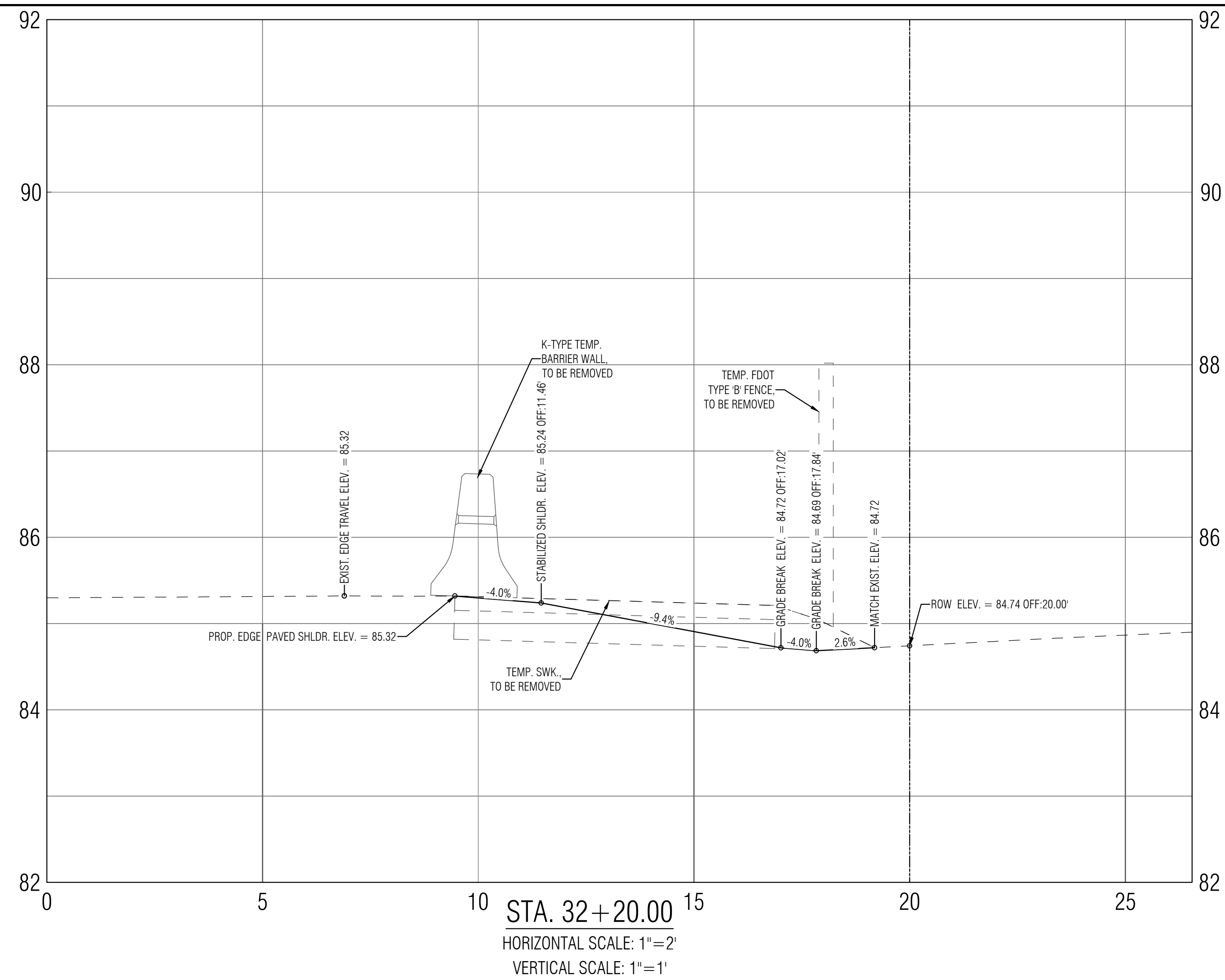
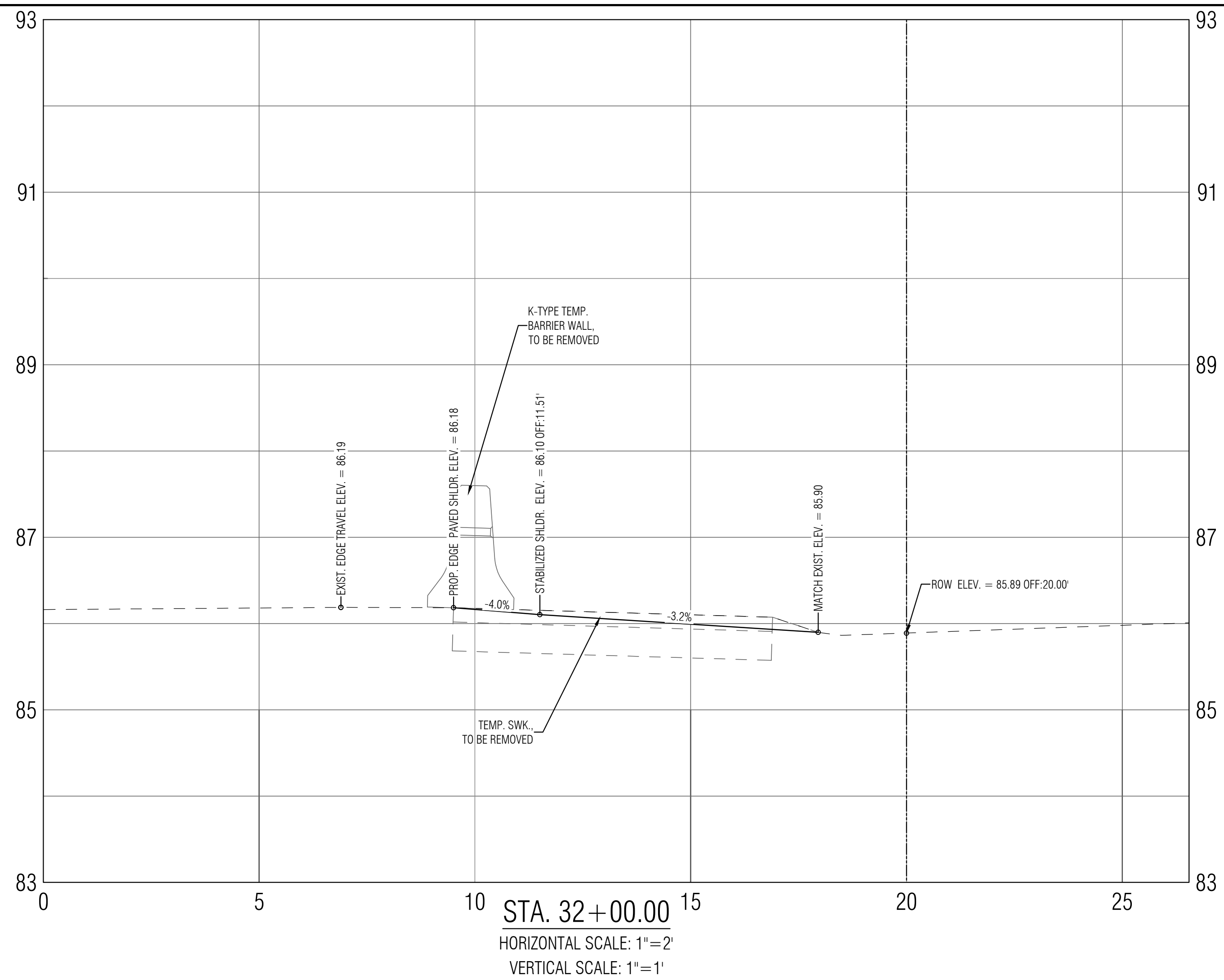
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902 NORTH SINGLAI AVE  
TAVARES, FLORIDA 32778  
TEL: (352) 340-0461

CERTIFICATE OF AUTHORIZATION NUMBER: 33380

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JOB NO.:	043862.081
FILE NAME:	043862.081 Base
<b>Sheet CSF-01</b>	

Duane K. Booth, PE  
Registered Eng 44631





DATE	REVISION
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LAKE COUNTY, FLORIDA  
CR 455 SOUTH LAKE TRAIL BOARDWALK  
CROSS SECTION FINAL SHEET (02)



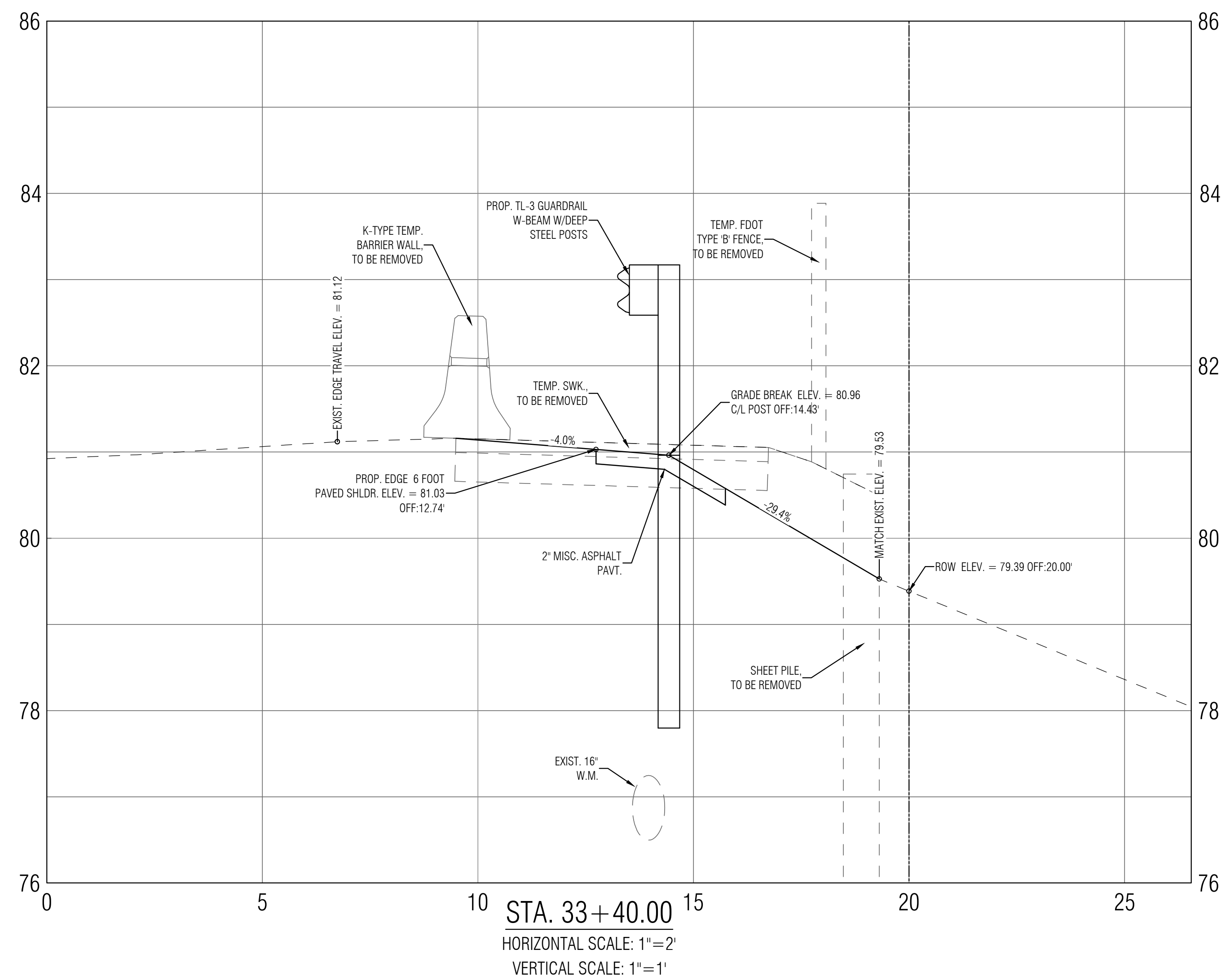
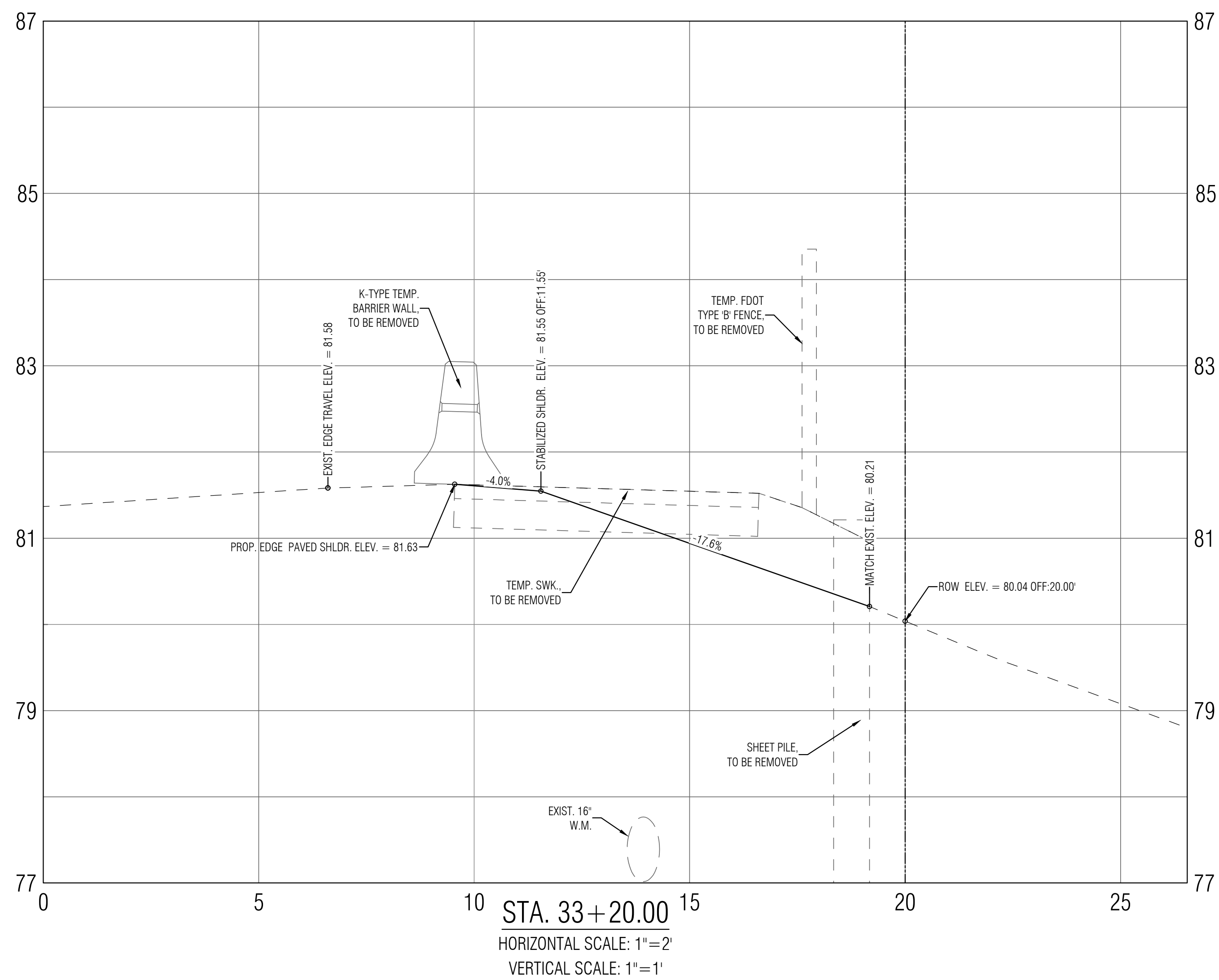
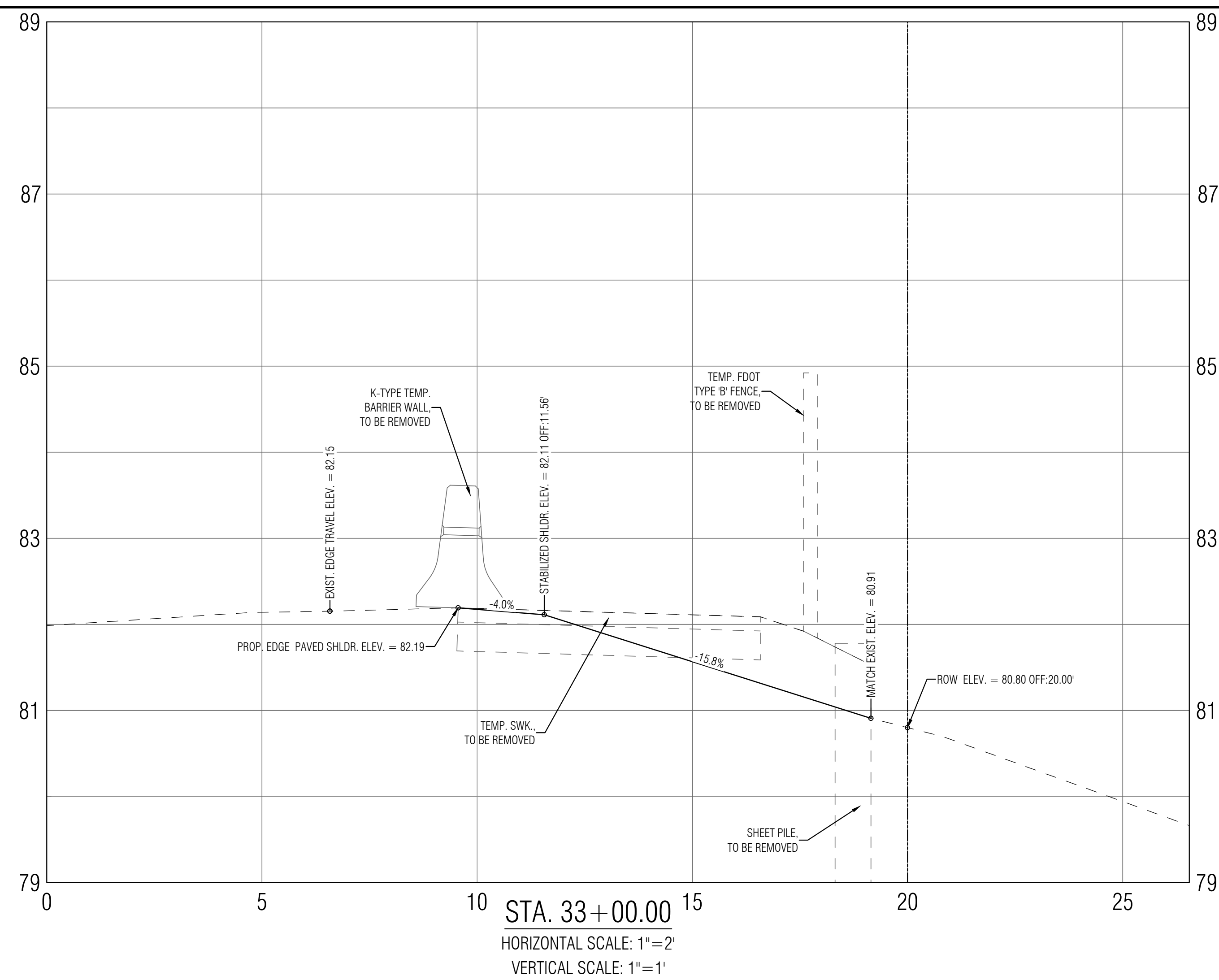
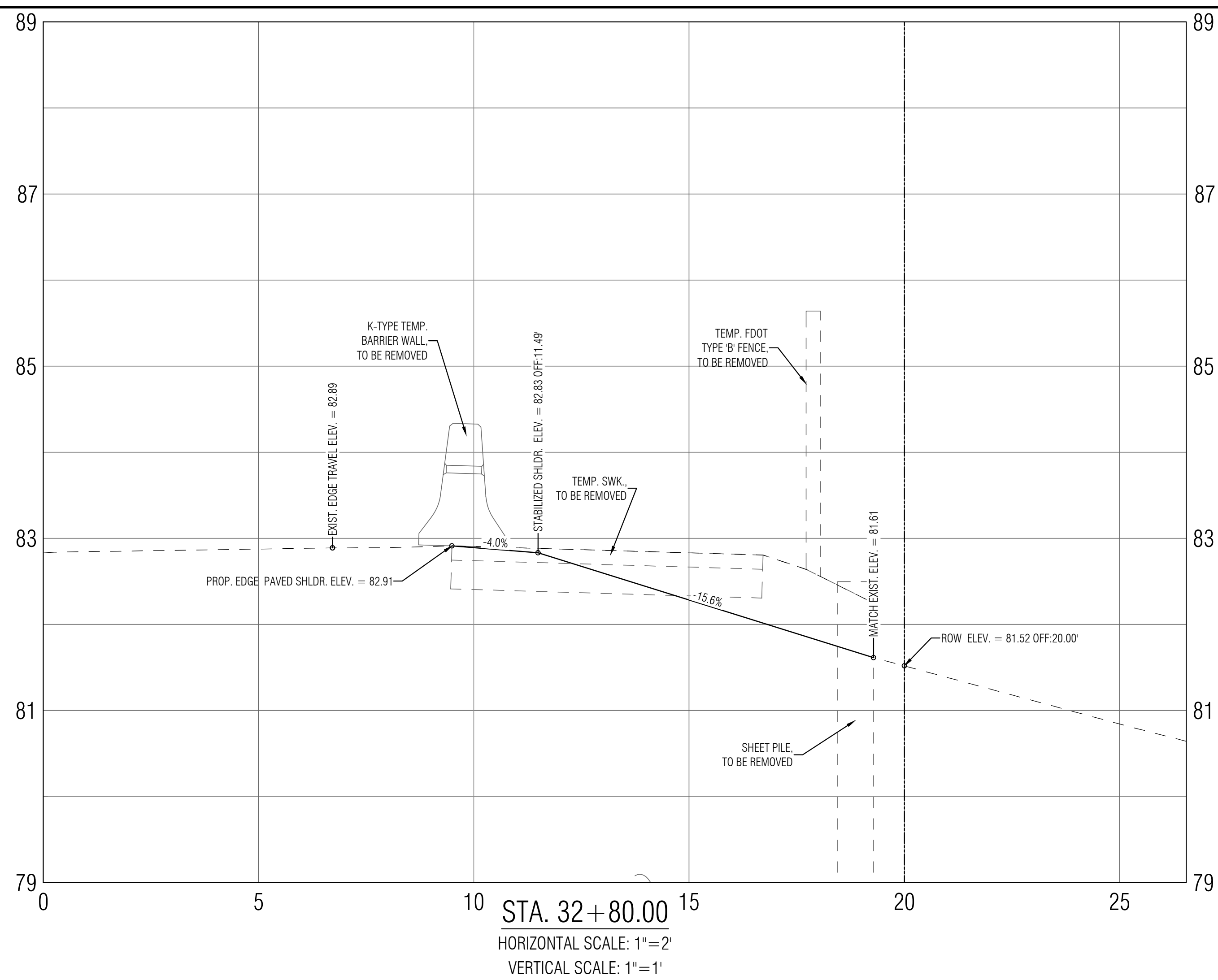
**half**  
902 NORTH SINGLARS AVE  
TAVARES, FLORIDA 32778  
TEL: (352) 340-6461

CERTIFICATE OF AUTHORIZATION NUMBER: 30380

DATE:	JULY 26, 2024
DESIGNED BY:	BDB
DRAWN BY:	BDB
CHECKED BY:	DKB
JOB NO.:	043862.081
FILE NAME:	043862.081 Base
<b>Sheet CSF-02</b>	

Duane K. Booth, PE  
Registered Eng 44631

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DATE	REVISION
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LAKE COUNTY, FLORIDA  
**CR 455 SOUTH LAKE TRAIL BOARDWALK**  
 CROSS SECTION FINAL SHEET (03)



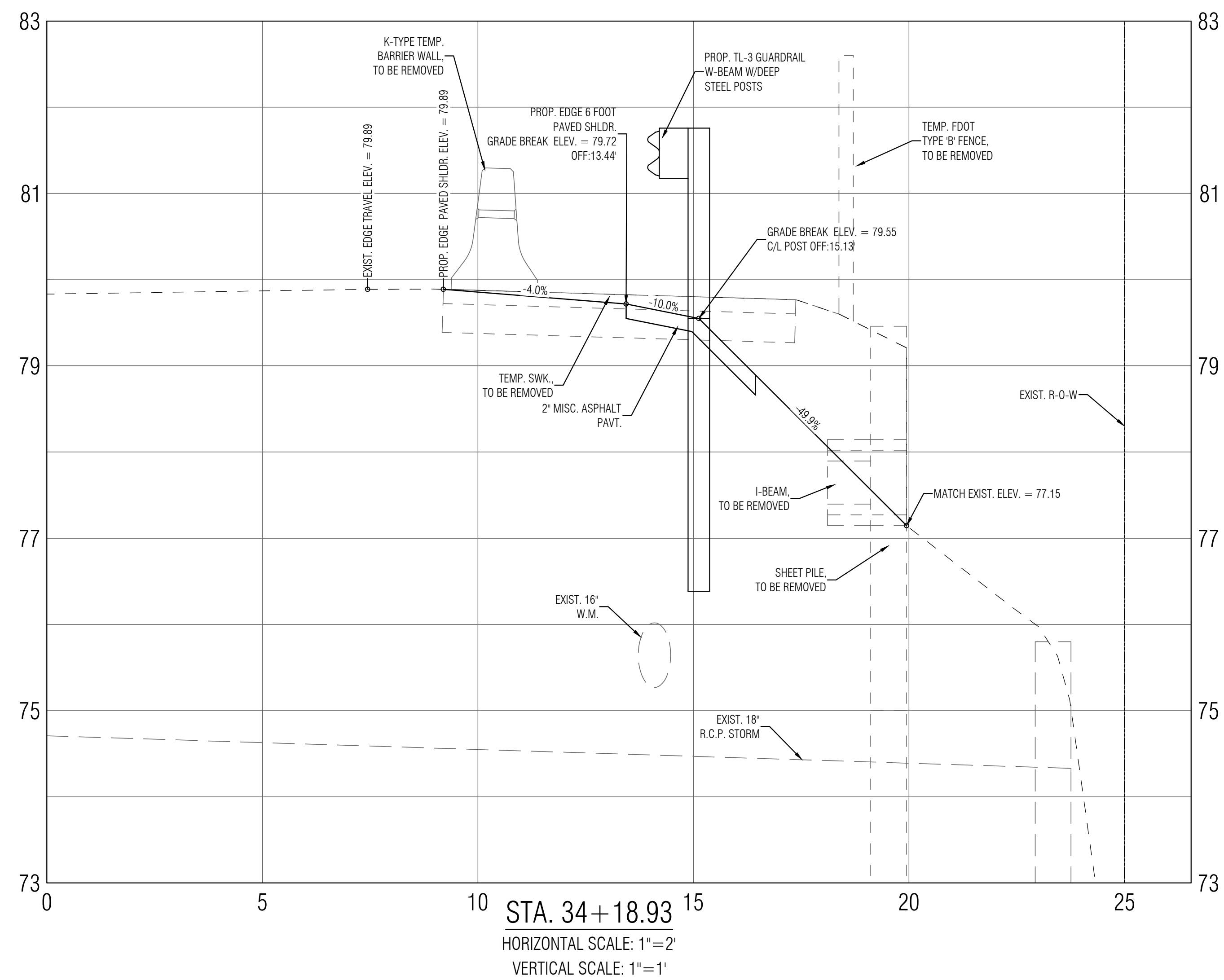
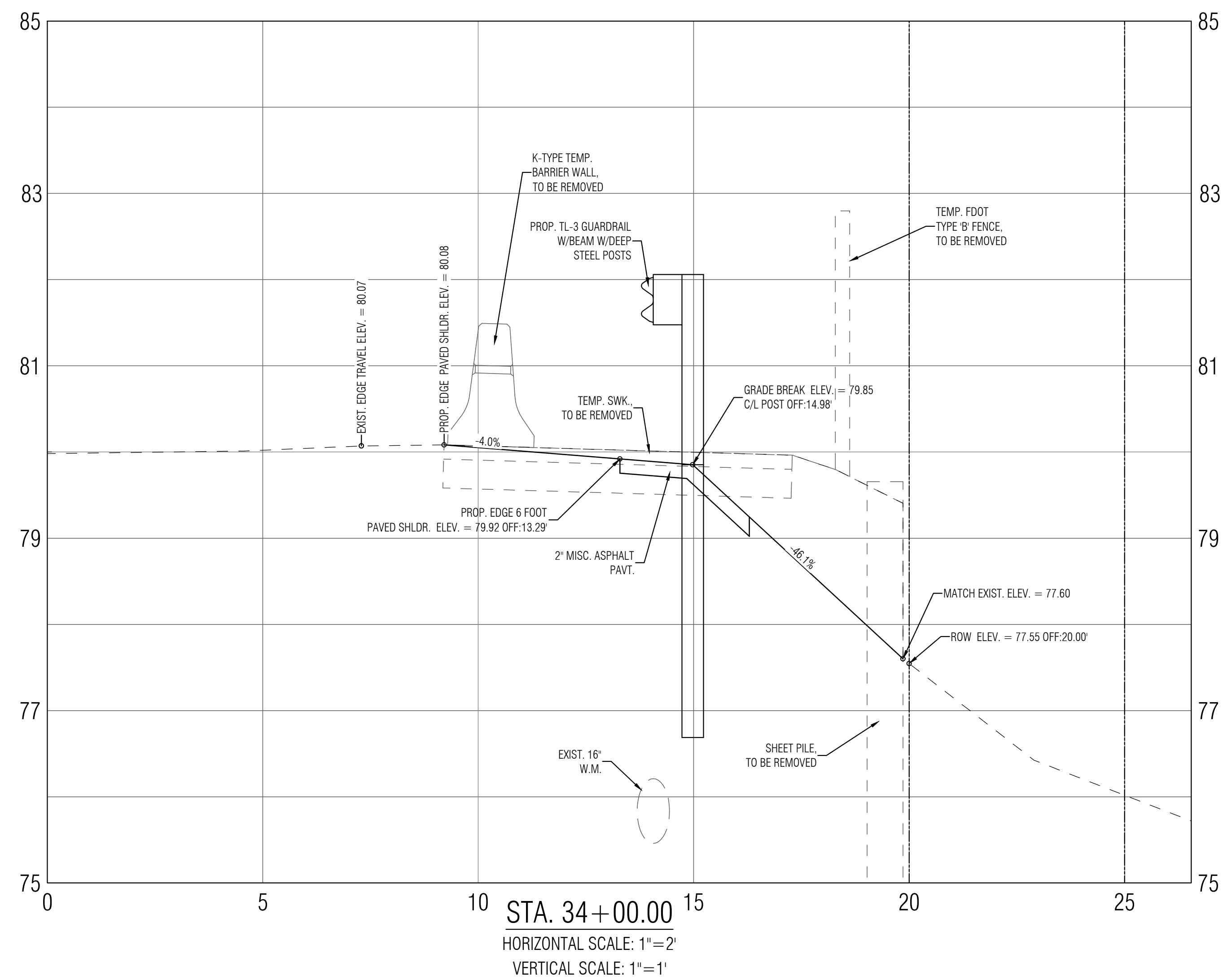
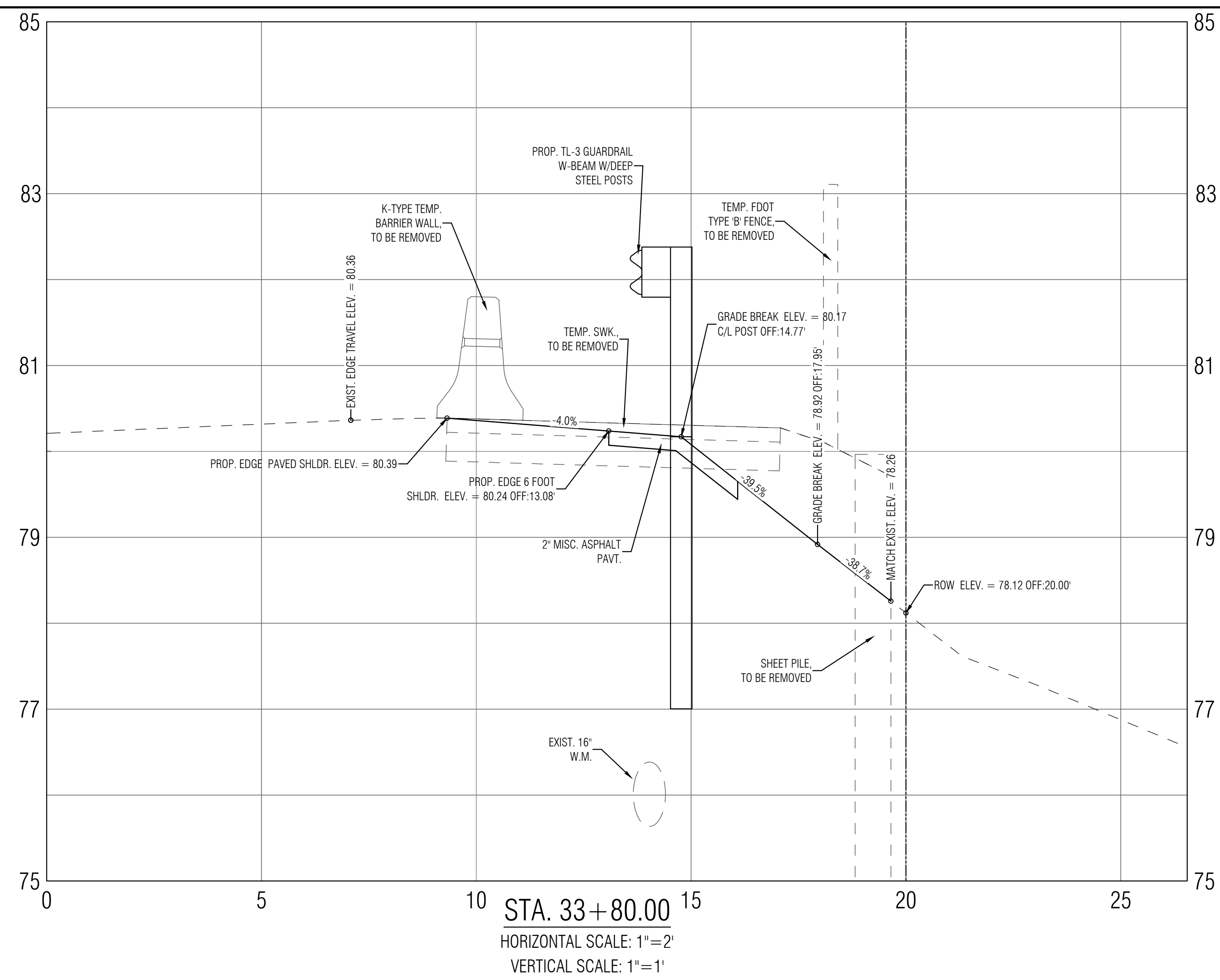
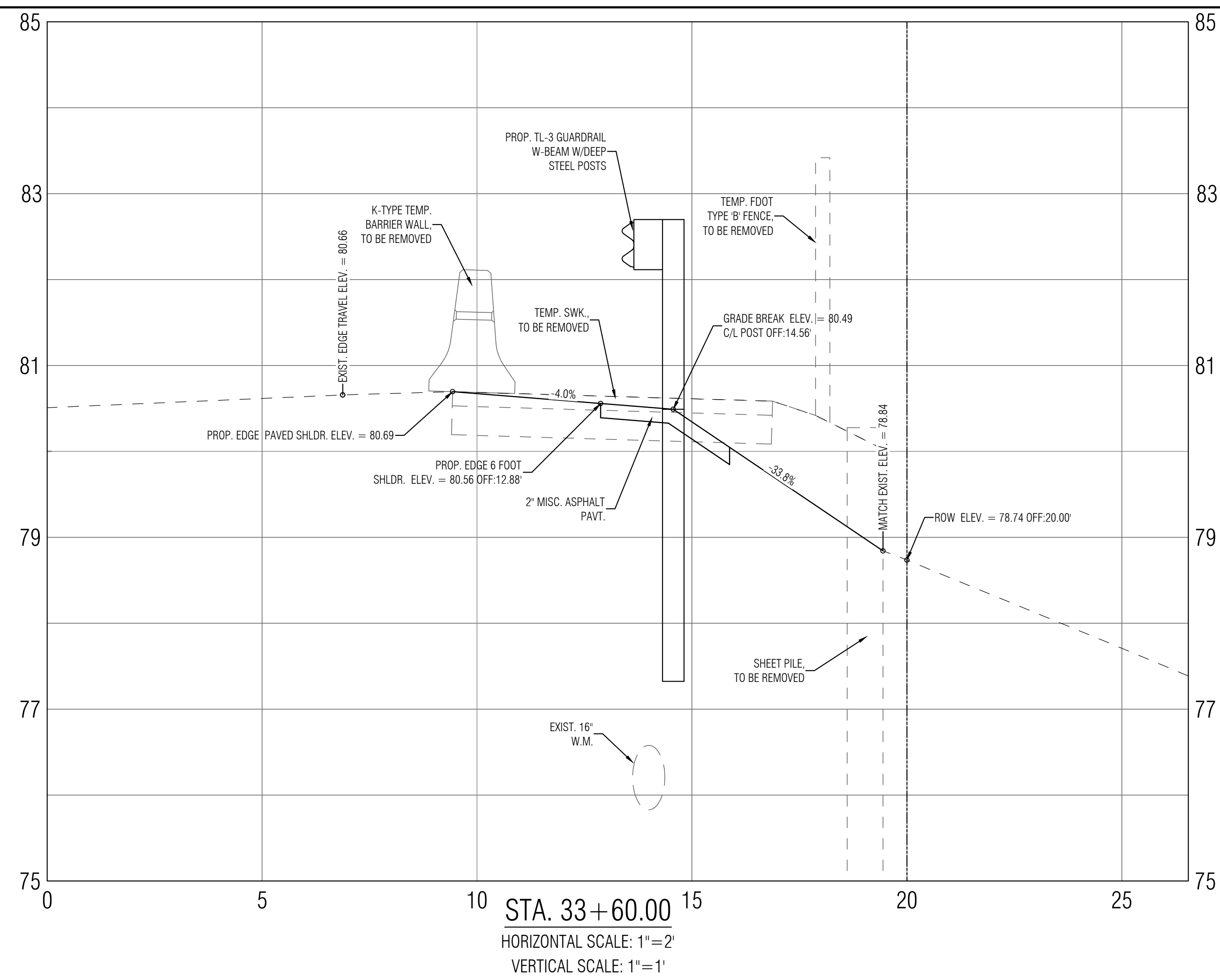
902 NORTH SINGLAIER AVE  
 TAVARES, FLORIDA 32778  
 TEL: (352) 340-0461  
 CERTIFICATE OF AUTHORIZATION NUMBER: 30380

DATE:	JULY 26, 2024
DESIGNED BY:	BDB
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CHECKED BY:	DKB
JOB NO.:	043862.081
FILE NAME:	043862.081 Base
<b>Sheet CSF-03</b>	

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LAKE COUNTY, FLORIDA  
CR 455 SOUTH LAKE TRAIL BOARDWALK  
CROSS SECTION FINAL SHEET (04)



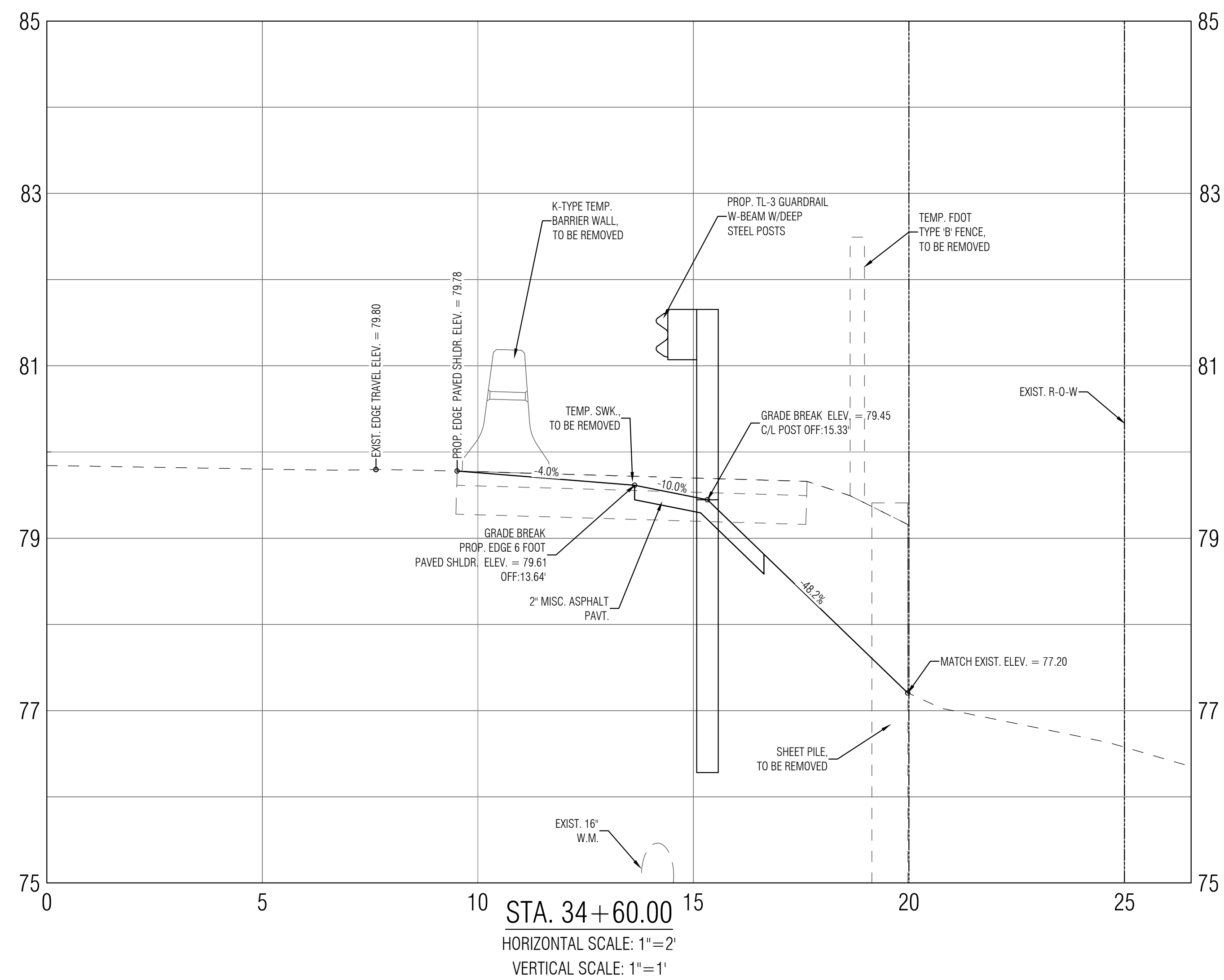
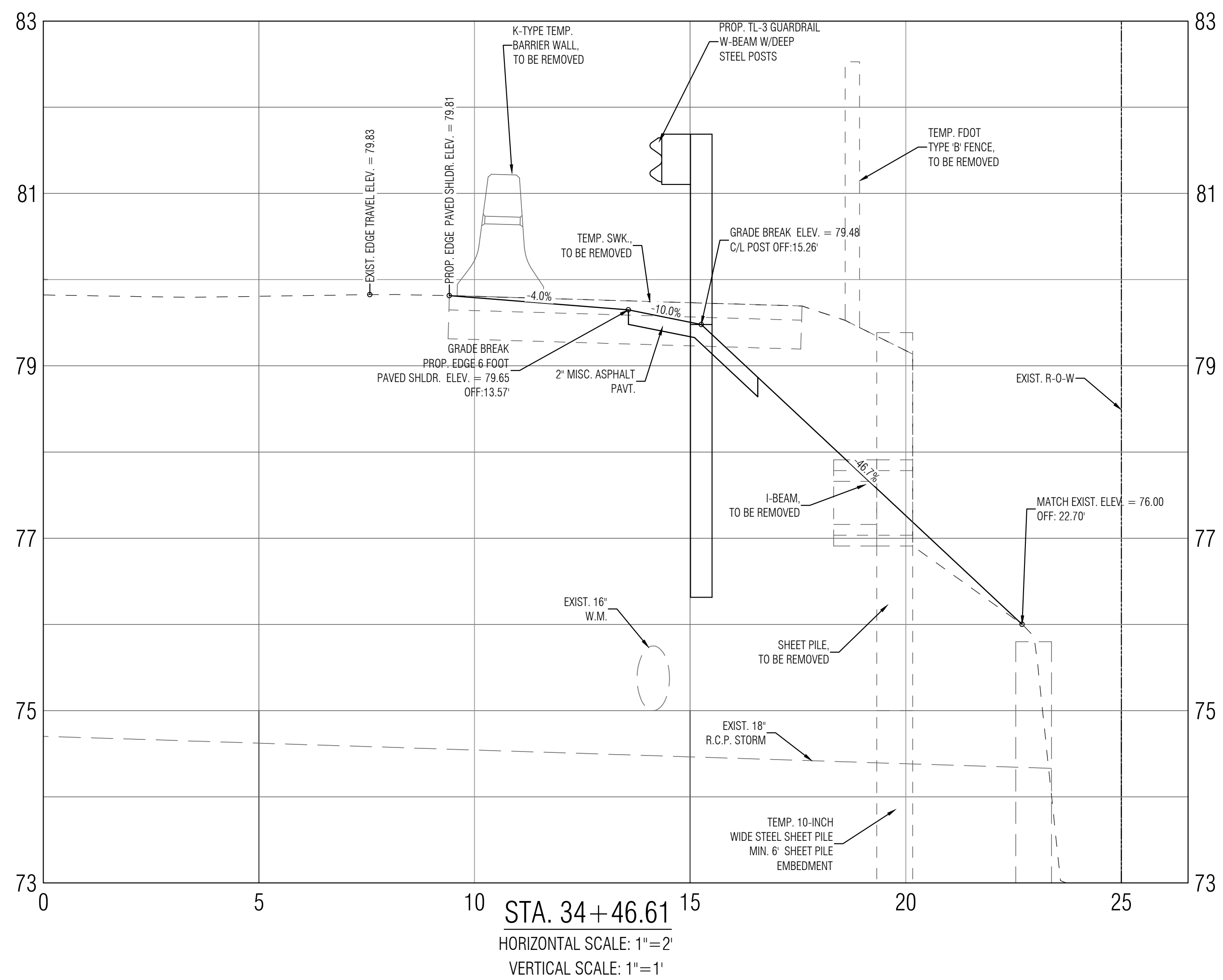
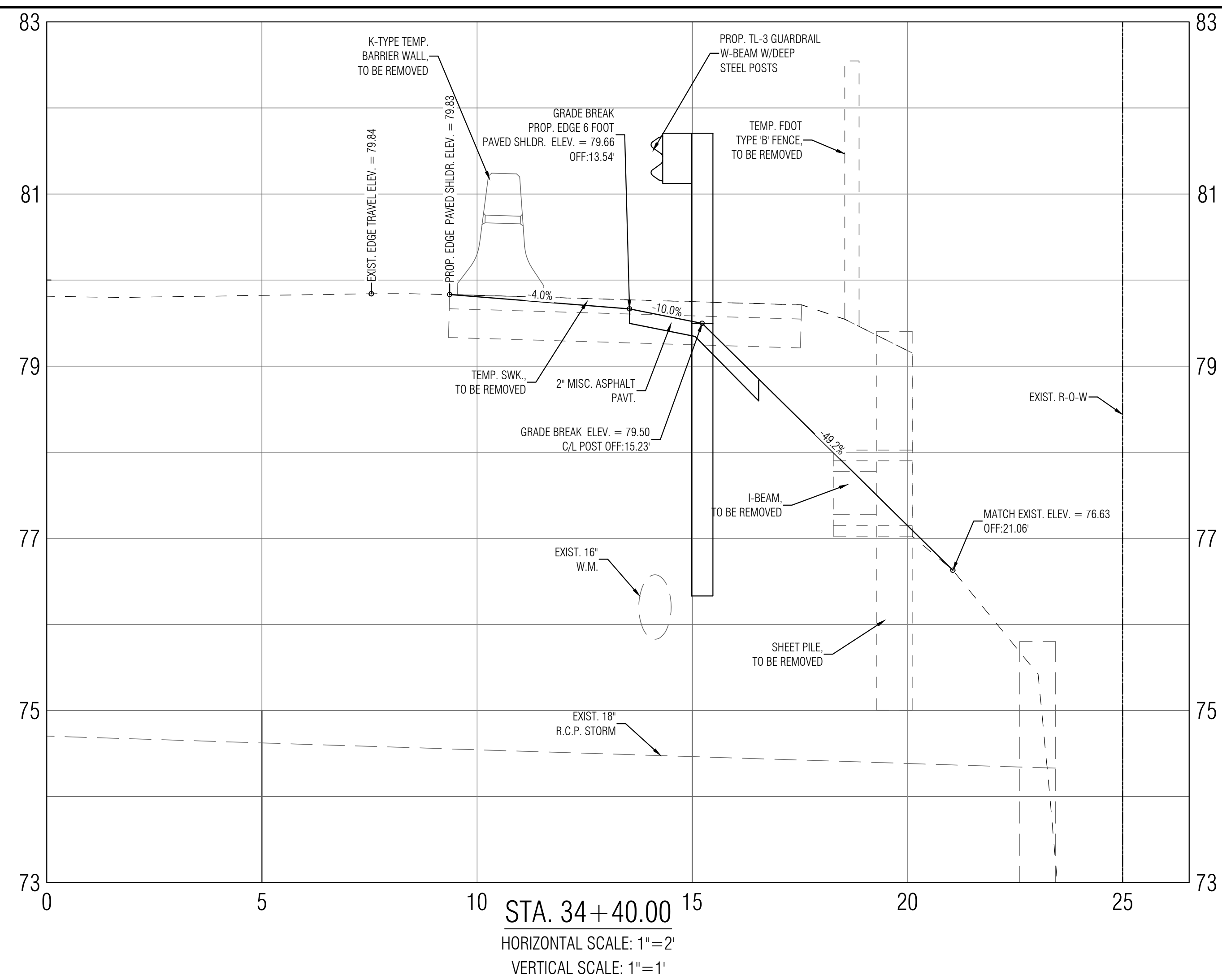
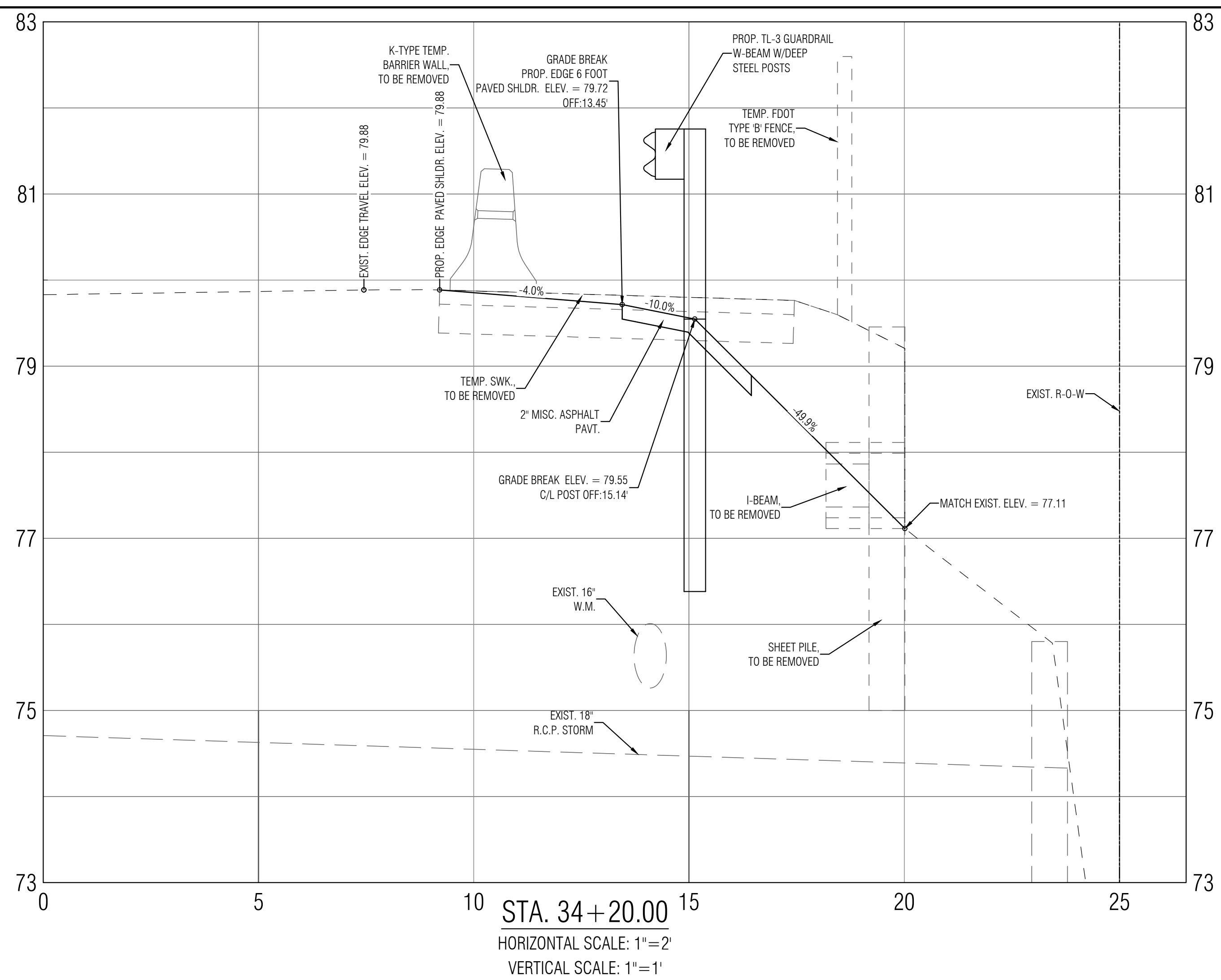
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902 NORTH SINGLAVILLE AVENUE  
TAVARES, FLORIDA 32778  
TEL: (352) 340-9461

CERTIFICATE OF AUTHORIZATION NUMBER: 30380

DATE:	JULY 26, 2024
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FILE NAME:	043862.081 Base
<b>Sheet CSF-04</b>	

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LAKE COUNTY, FLORIDA  
**CR 455 SOUTH LAKE TRAIL BOARDWALK**  
 CROSS SECTION FINAL SHEET (05)



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 902 NORTH SINGLAVILLE AVENUE  
 TAVARES, FLORIDA 32778  
 TEL: (352) 340-0461

CERTIFICATE OF AUTHORIZATION NUMBER: 30380

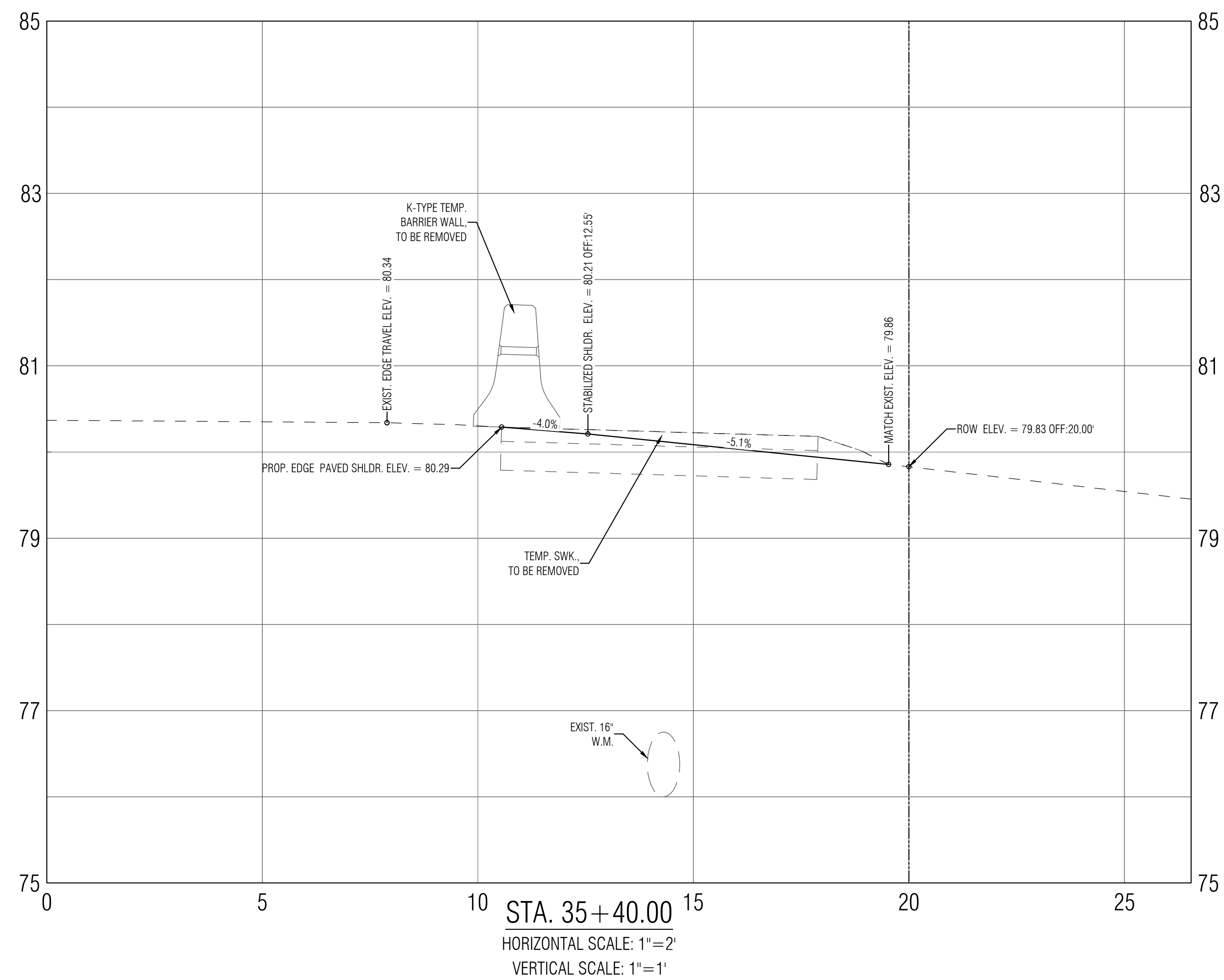
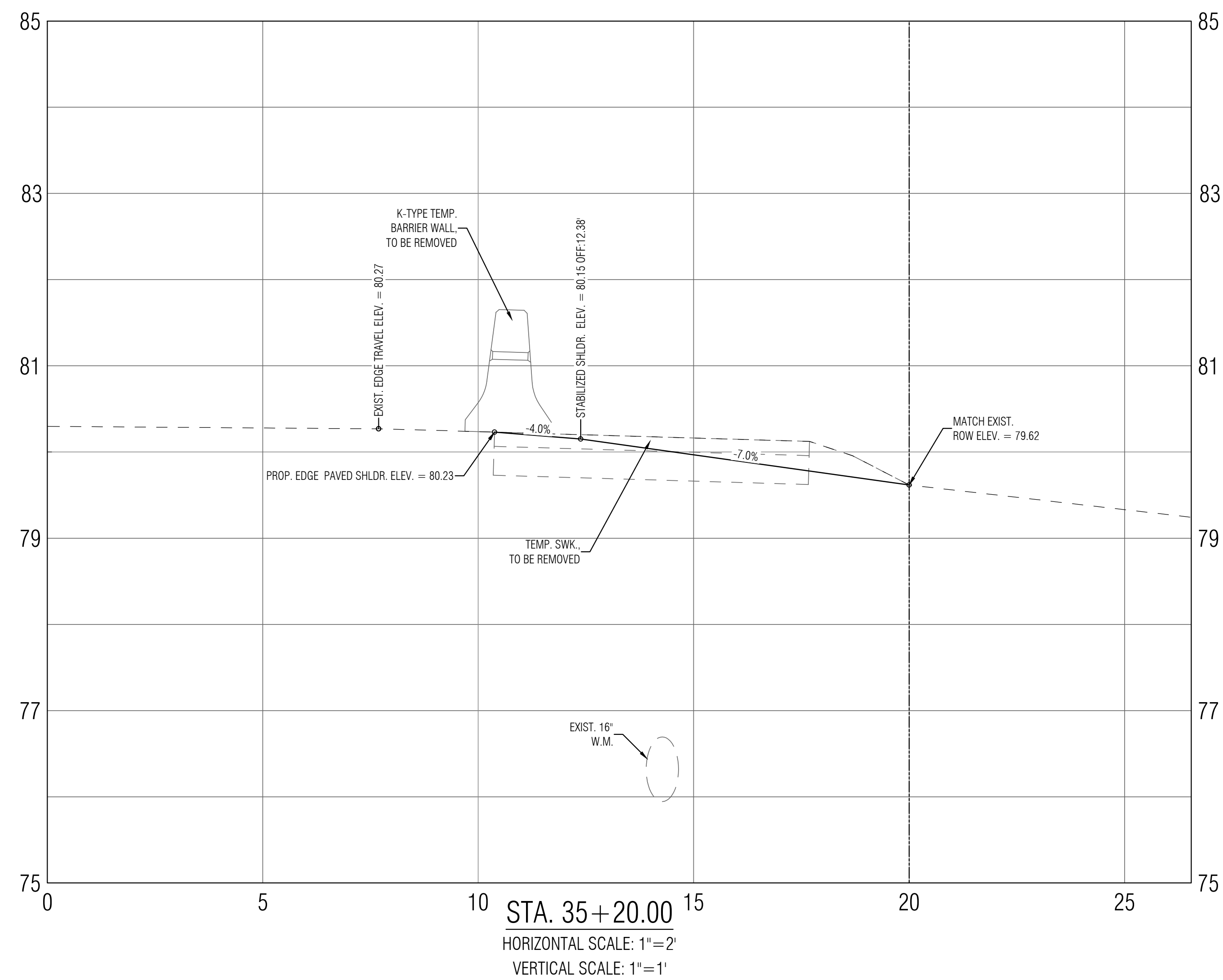
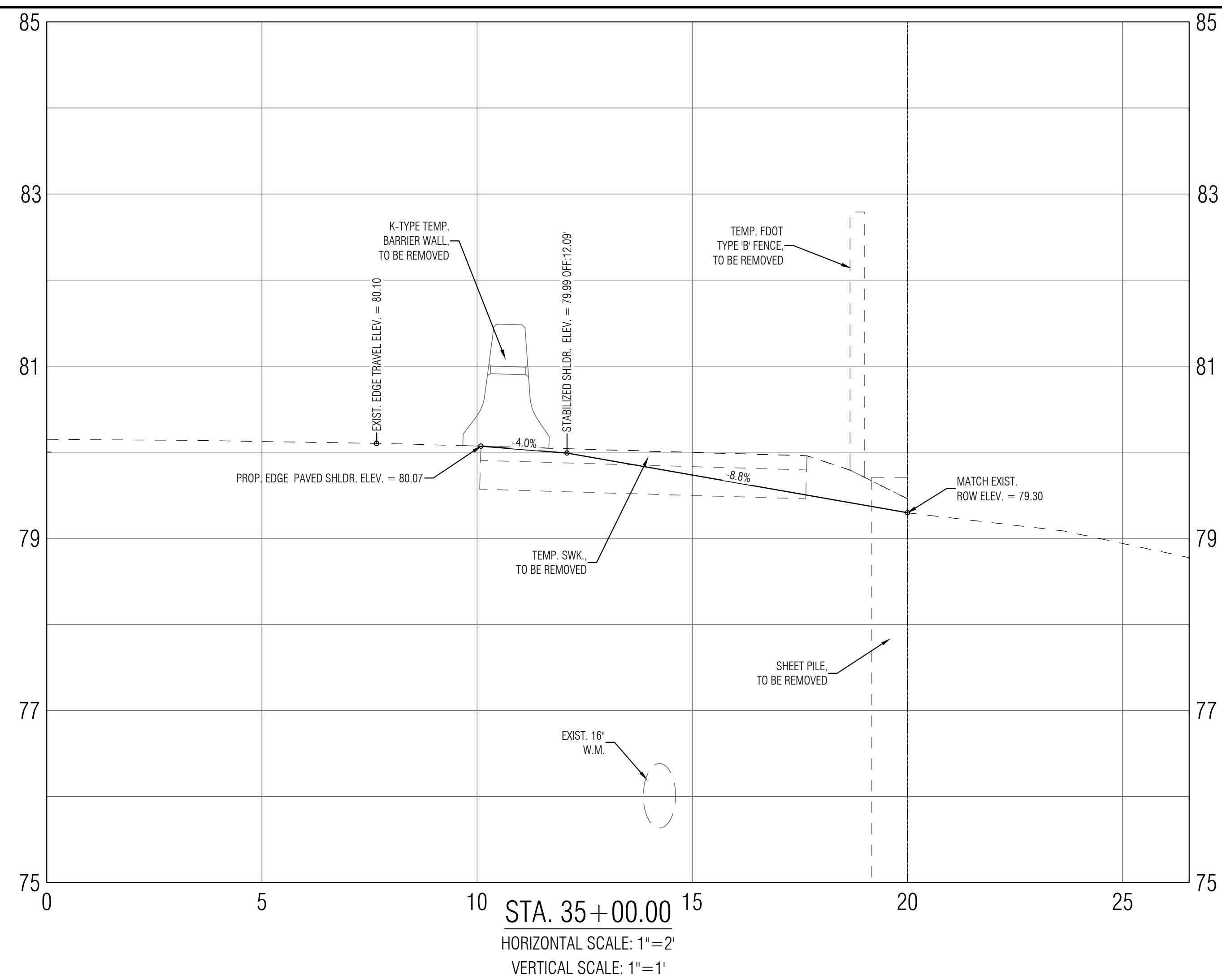
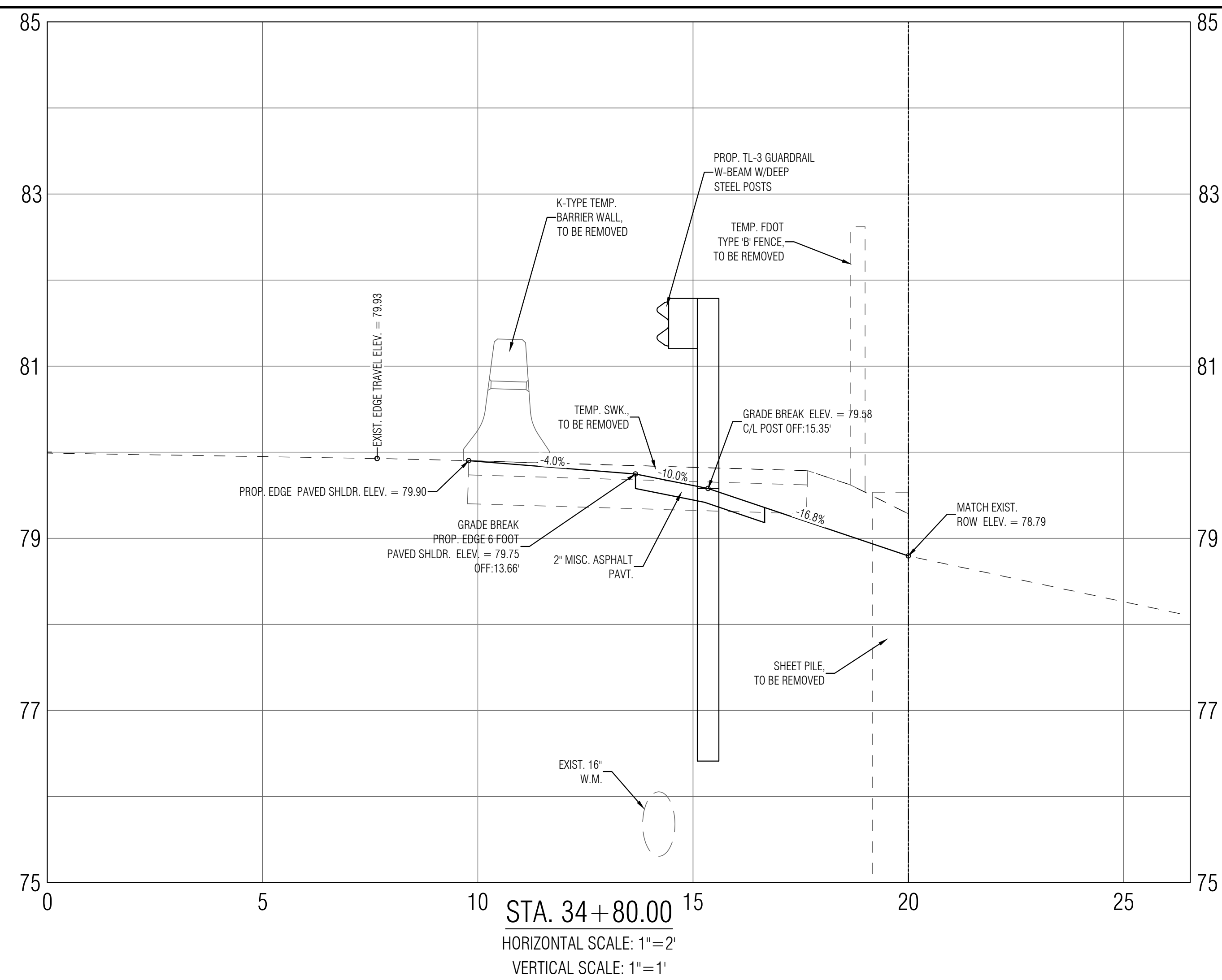
DATE:	JULY 26, 2024
DESIGNED BY:	BDB
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CHECKED BY:	DKB
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FILE NAME:	043862.081 Base

**Sheet CSF-05**

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LAKE COUNTY, FLORIDA  
 CR 455 SOUTH LAKE TRAIL BOARDWALK  
 CROSS SECTION FINAL SHEET (06)

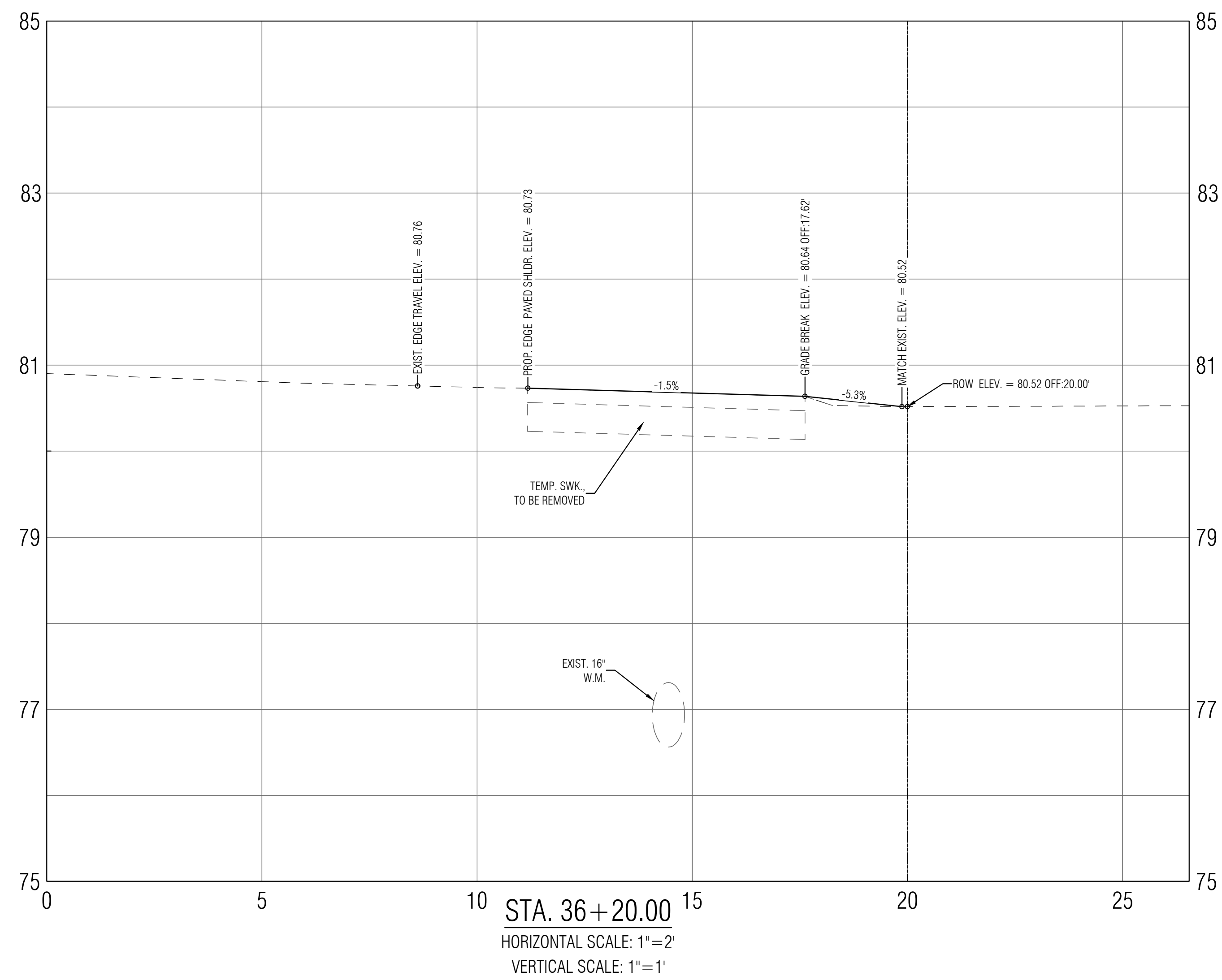
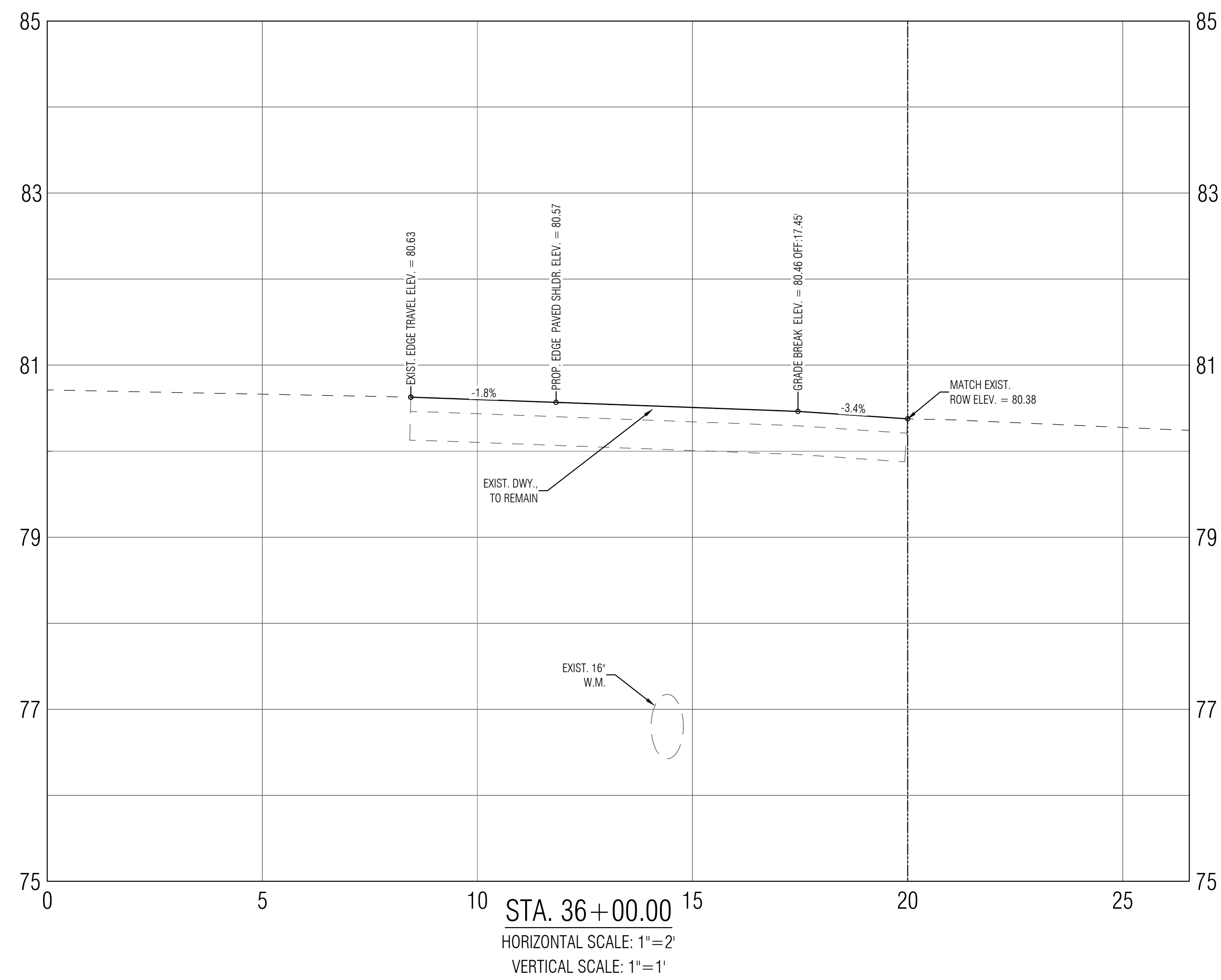
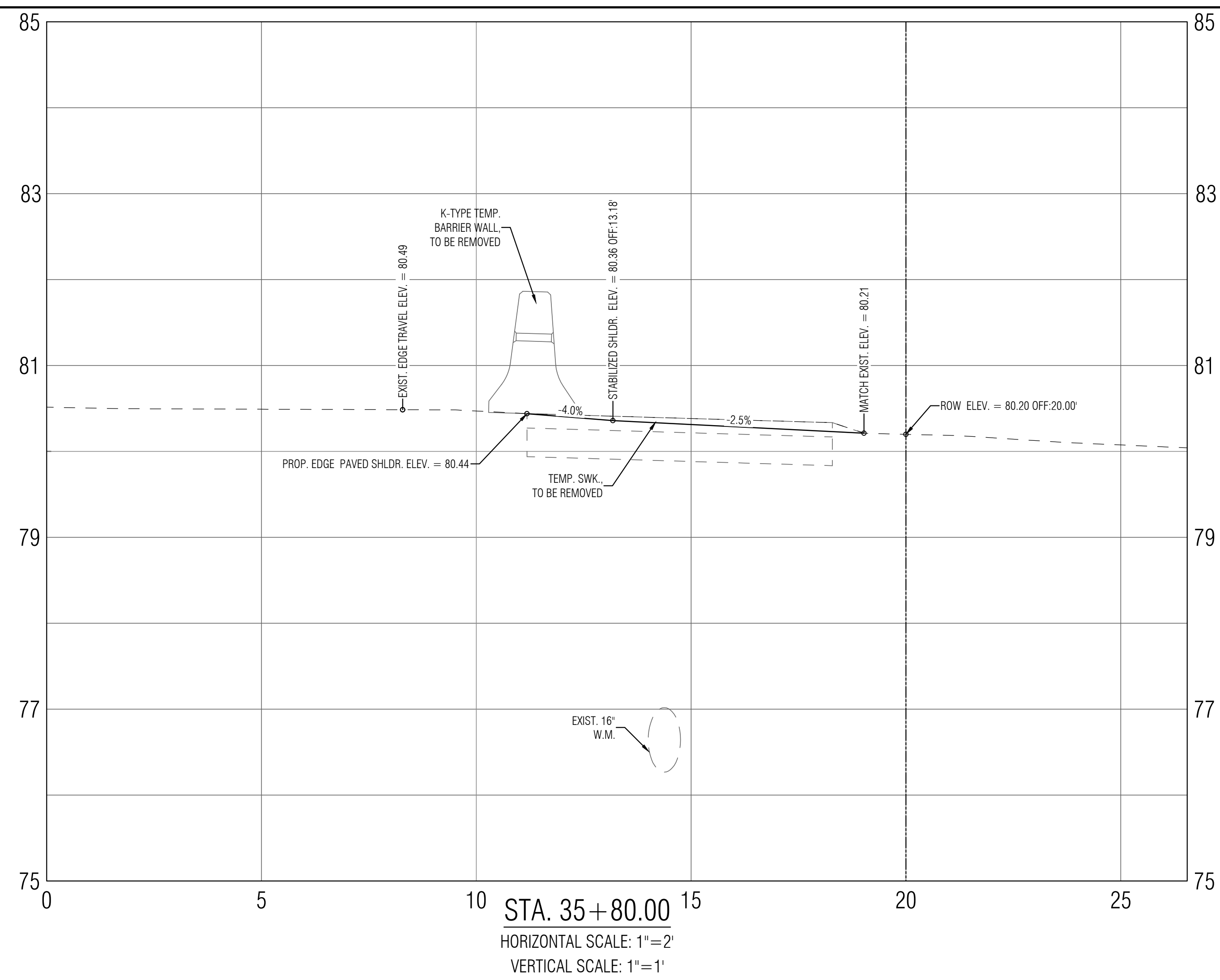
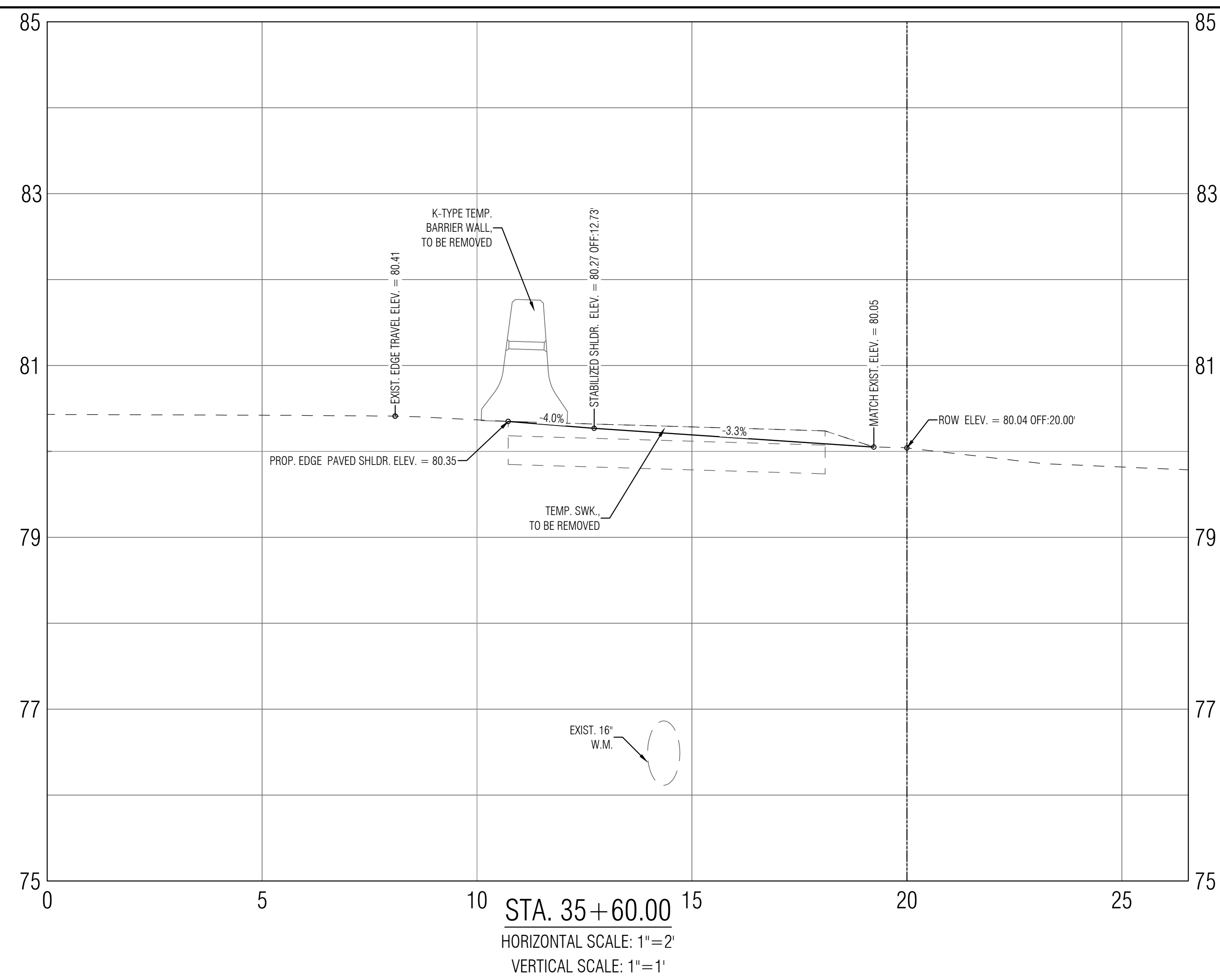


**half**  
 902 NORTH SINGLAKR AVE  
 TAVARES, FLORIDA 32778  
 TEL: (352) 343-6461  
 CERTIFICATE OF AUTHORIZATION NUMBER: 33380

DATE:	JULY 26, 2024
DESIGNED BY:	BDB
DRAWN BY:	BDB
CHECKED BY:	DKB
JOB NO.:	043862.081
FILE NAME:	043862.081 Base
<b>Sheet CSF-06</b>	

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LAKE COUNTY, FLORIDA  
 CR 455 SOUTH LAKE TRAIL  
 BOARDWALK  
 CROSS SECTION FINAL  
 SHEET (07)



**half**  
 902 NORTH SINGLAVILLE AVE  
 TAVARES, FLORIDA 32778  
 TEL: (352) 340-0461

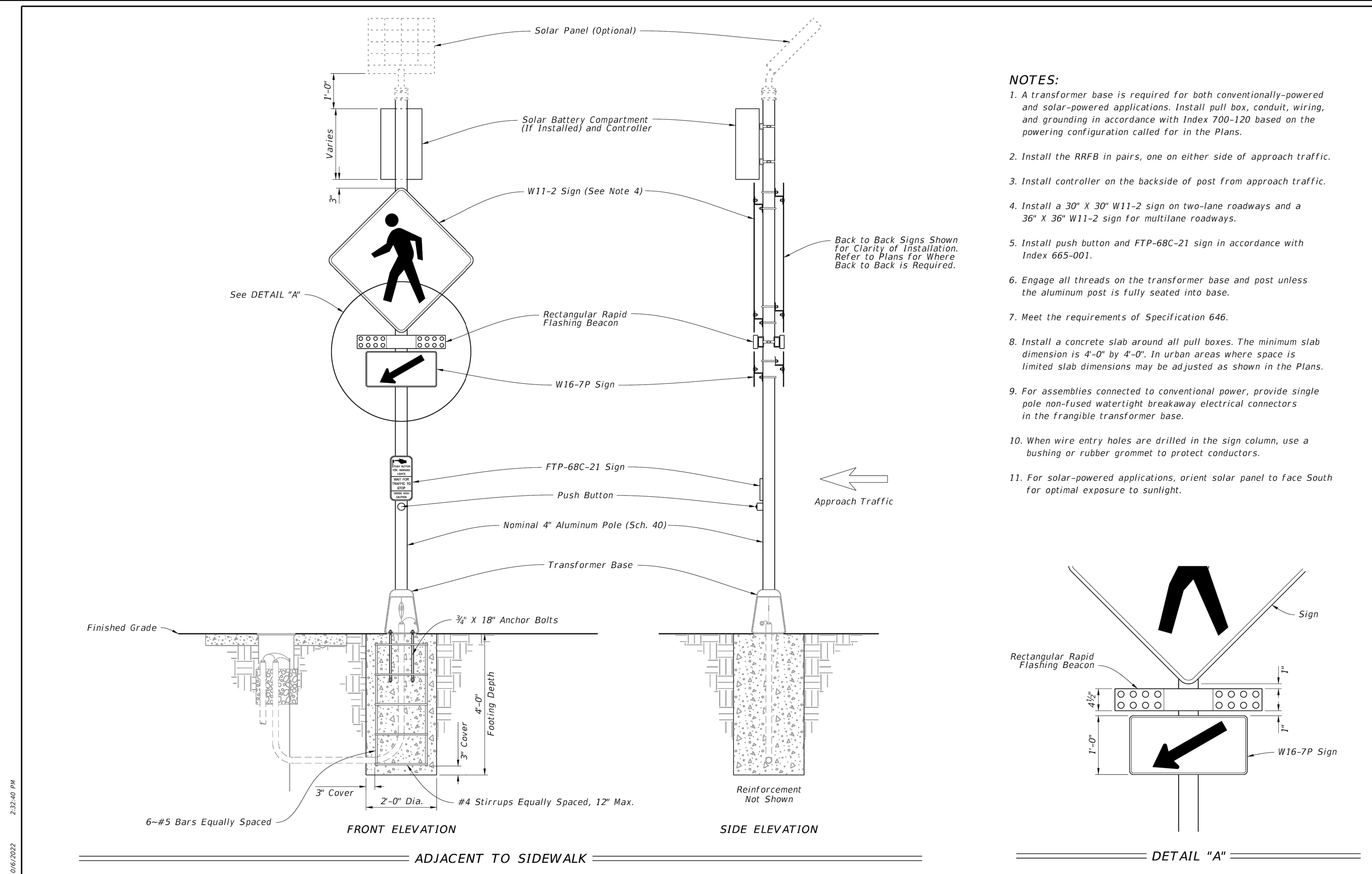
CERTIFICATE OF AUTHORIZATION NUMBER: 30380

DATE:	JULY 26, 2024
DESIGNED BY:	BDB
DRAWN BY:	BDB
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JOB NO.:	043862.081
FILE NAME:	043862.081 Base
<b>Sheet CSF-07</b>	

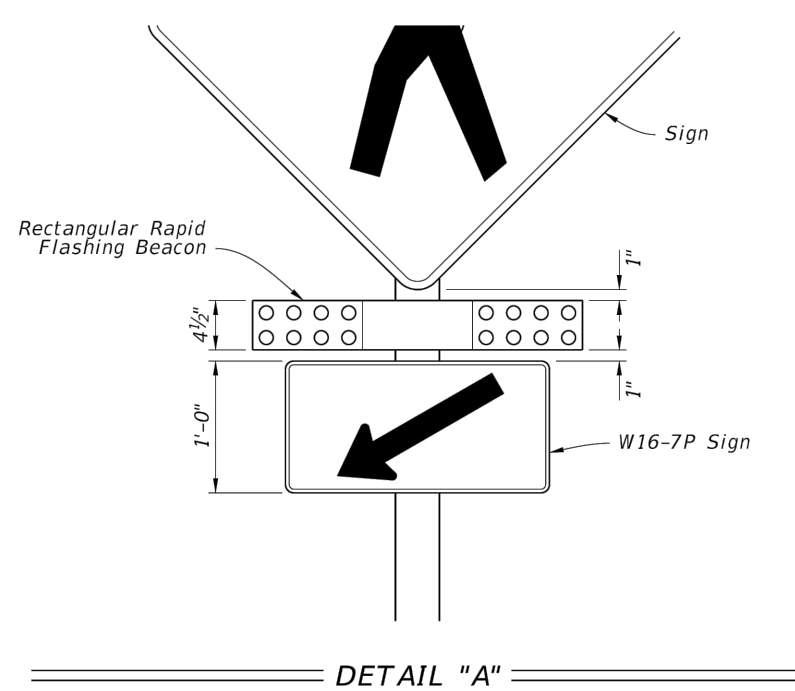
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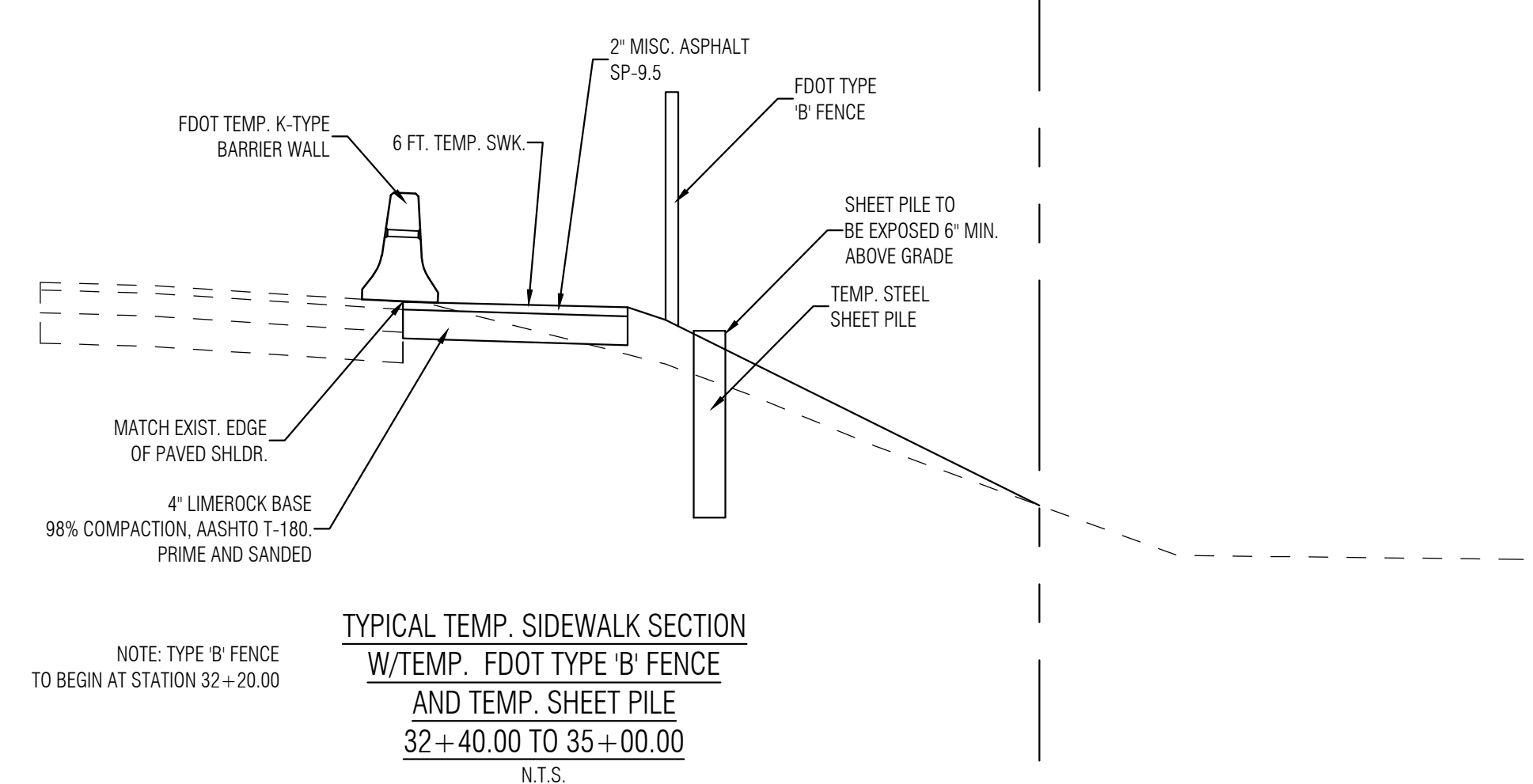
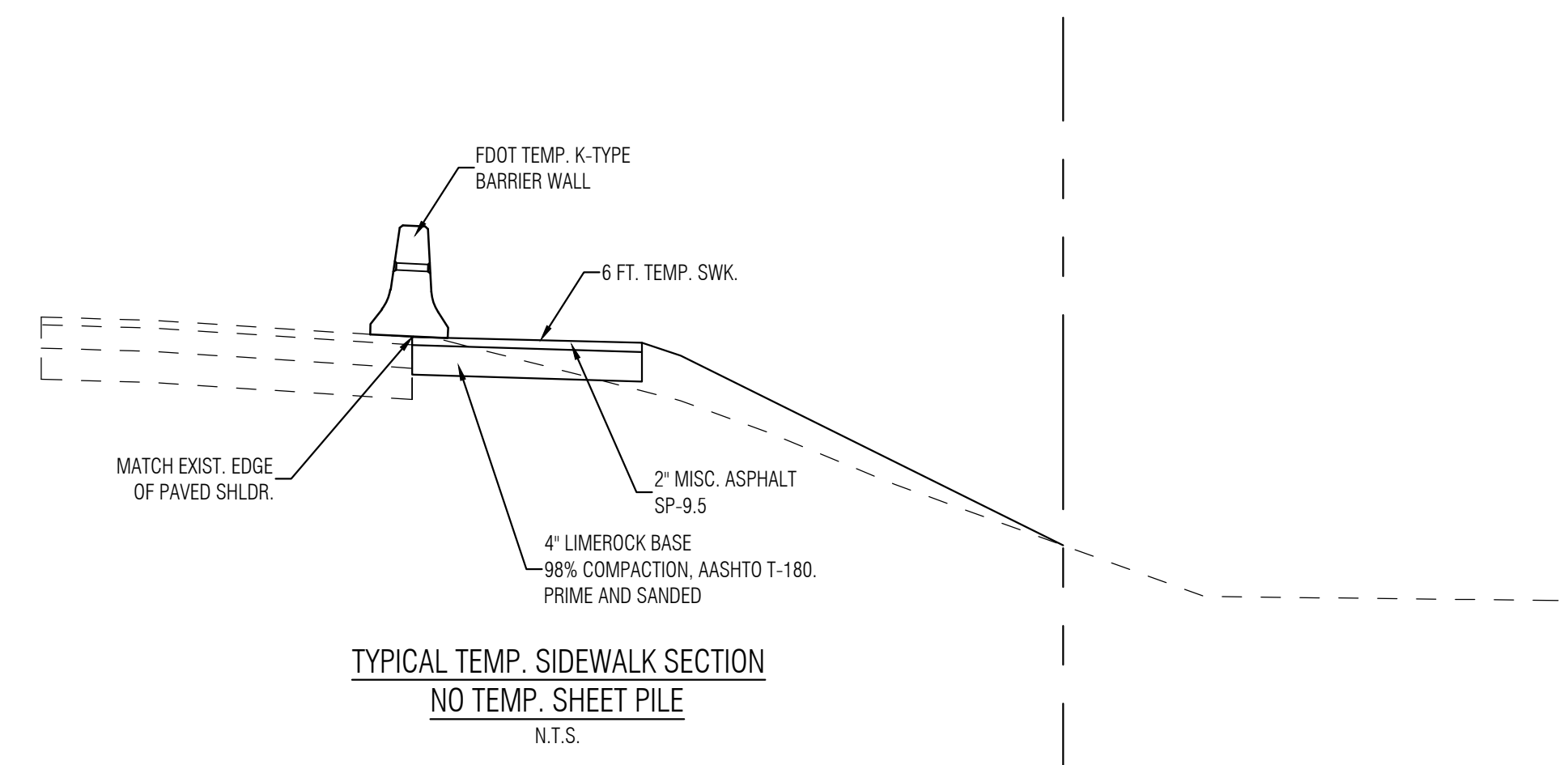




- NOTES:**
1. A transformer base is required for both conventionally-powered and solar-powered applications. Install pull box, conduit, wiring, and grounding in accordance with Index 700-120 based on the powering configuration called for in the Plans.
  2. Install the RRFB in pairs, one on either side of approach traffic.
  3. Install controller on the backside of post from approach traffic.
  4. Install a 30" X 30" W11-2 sign on two-lane roadways and a 36" X 36" W11-2 sign for multilane roadways.
  5. Install push button and FTP-68C-21 sign in accordance with Index 665-001.
  6. Engage all threads on the transformer base and post unless the aluminum post is fully seated into base.
  7. Meet the requirements of Specification 646.
  8. Install a concrete slab around all pull boxes. The minimum slab dimension is 4'-0" by 4'-0". In urban areas where space is limited slab dimensions may be adjusted as shown in the Plans.
  9. For assemblies connected to conventional power, provide single pole non-fused watertight breakaway electrical connectors in the frangible transformer base.
  10. When wire entry holes are drilled in the sign column, use a bushing or rubber grommet to protect conductors.
  11. For solar-powered applications, orient solar panel to face South for optimal exposure to sunlight.

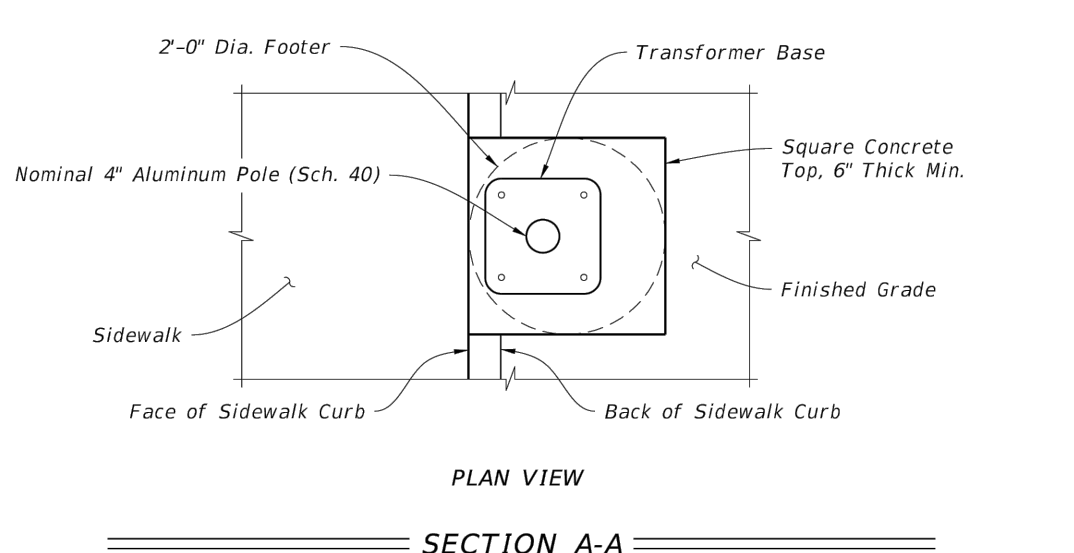
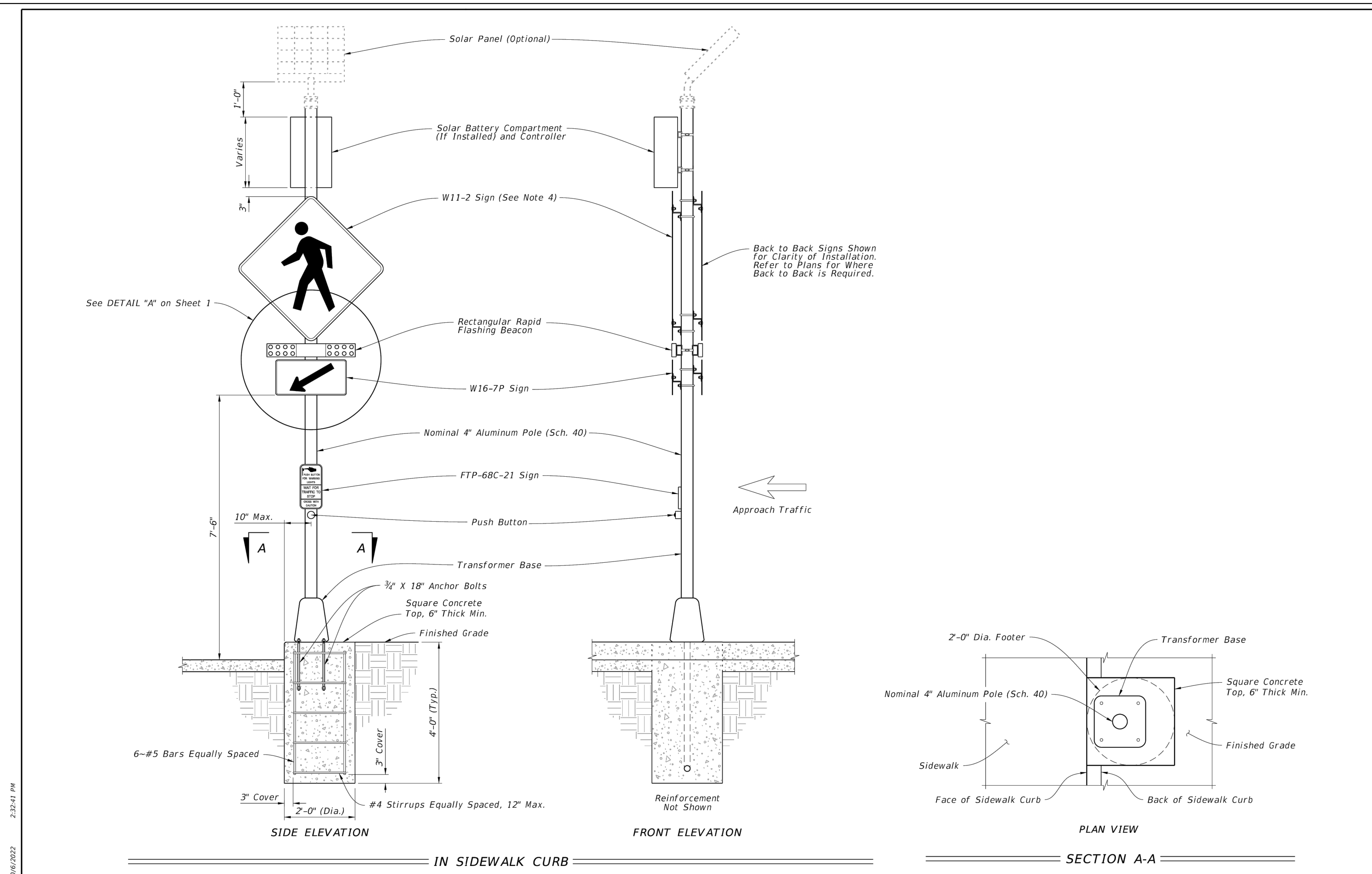


DATE: 10/6/2023	TIME: 2:32:47 PM	DESCRIPTION:	FY 2023-24 STANDARD PLANS	INDEX	SHEET
LAST REVISION 11/01/21	REVISION			654-001	1 of 2

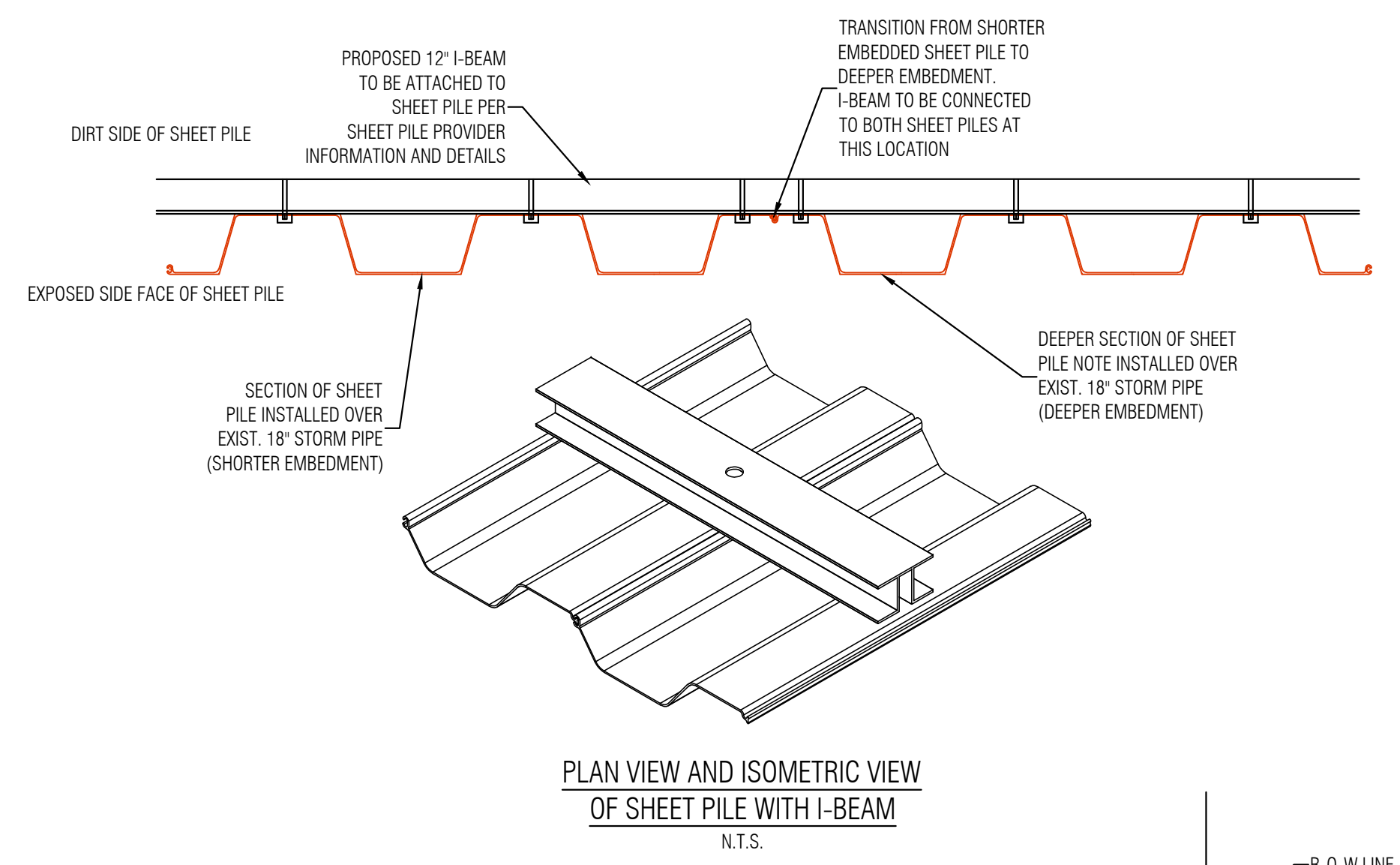


NOTE: TYPE 'B' FENCE TO BEGIN AT STATION 32+20.00

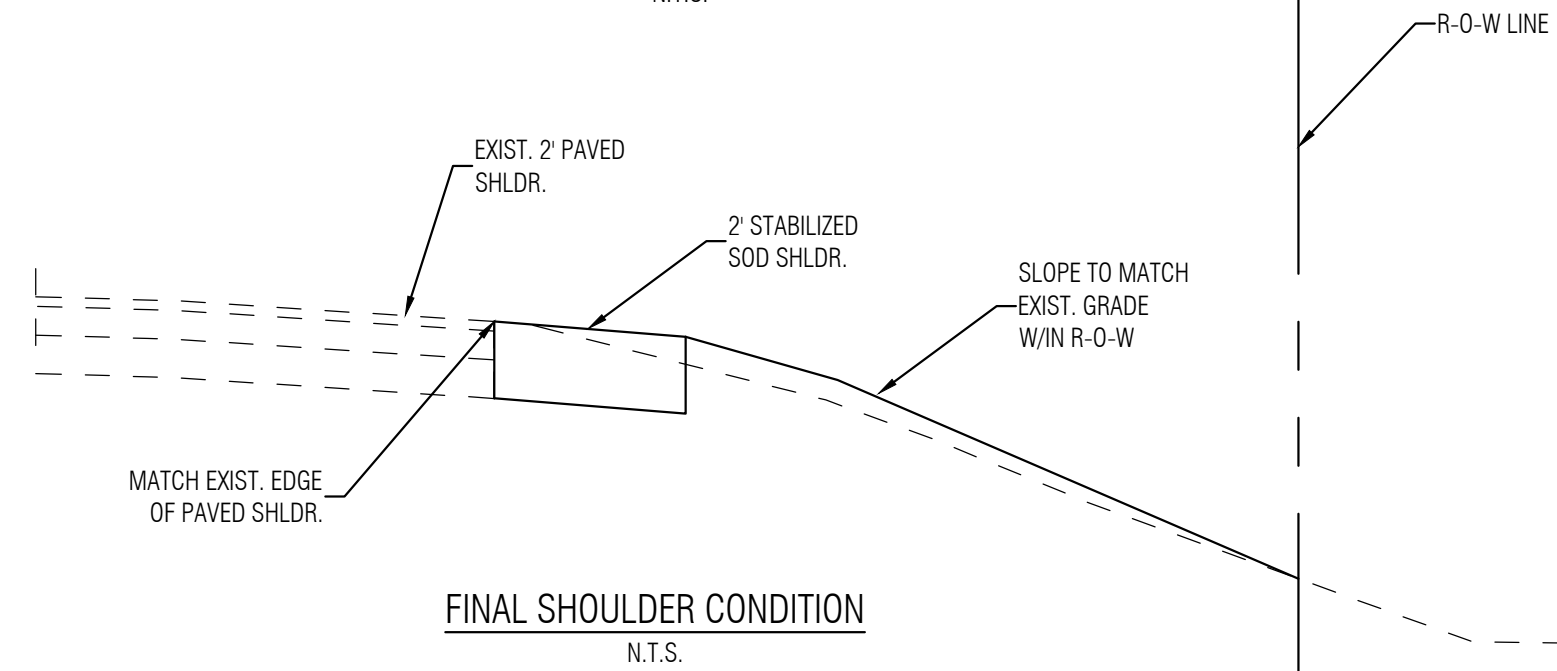
TYPICAL TEMP. SIDEWALK SECTION W/TEMP. FDOT TYPE 'B' FENCE AND TEMP. SHEET PILE  
32+40.00 TO 35+00.00  
N.T.S.



DATE: 10/6/2023	TIME: 2:32:47 PM	DESCRIPTION:	FY 2023-24 STANDARD PLANS	INDEX	SHEET
LAST REVISION 11/01/21	REVISION			654-001	2 of 2



PLAN VIEW AND ISOMETRIC VIEW OF SHEET PILE WITH I-BEAM  
N.T.S.



FINAL SHOULDER CONDITION  
N.T.S.

DATE: 11/01/21	TIME: 11:00:00 AM	DESCRIPTION:	FY 2023-24 STANDARD PLANS	INDEX	SHEET
LAST REVISION 11/01/21	REVISION			654-001	1 of 2

LAKE COUNTY, FLORIDA  
CR 455 SOUTH LAKE TRAIL BOARDWALK  
DETAIL PLAN SHEET



**half**  
902 NORTH SINGLAI AVE  
TAVARES, FLORIDA 32778  
TEL: (352) 343-9461

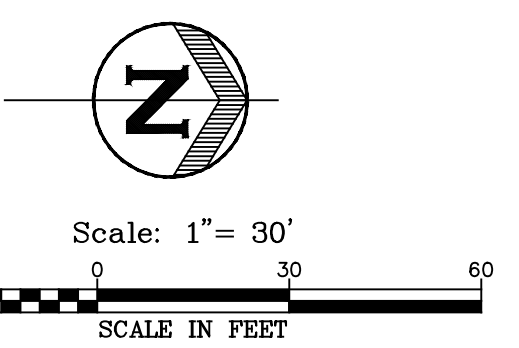
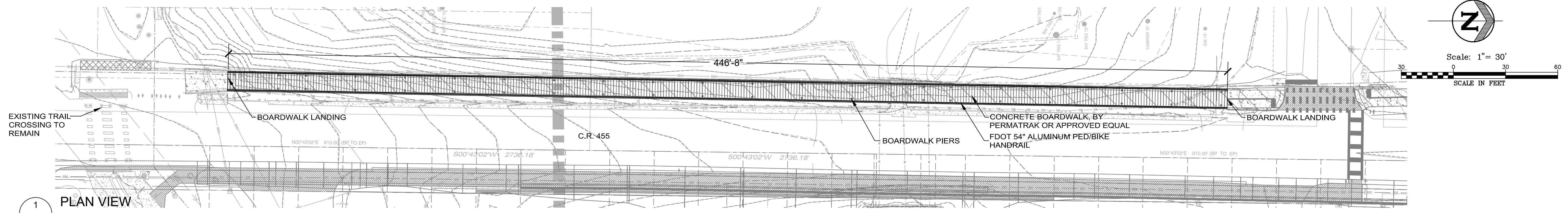
CERTIFICATE OF AUTHORIZATION NUMBER: 33380

DATE:	JULY 26, 2024
DESIGNED BY:	BDB
DRAWN BY:	BDB
CHECKED BY:	DKB
JOB NO.:	043862.081
FILE NAME:	043862.081 Base
<b>Sheet DET-01</b>	

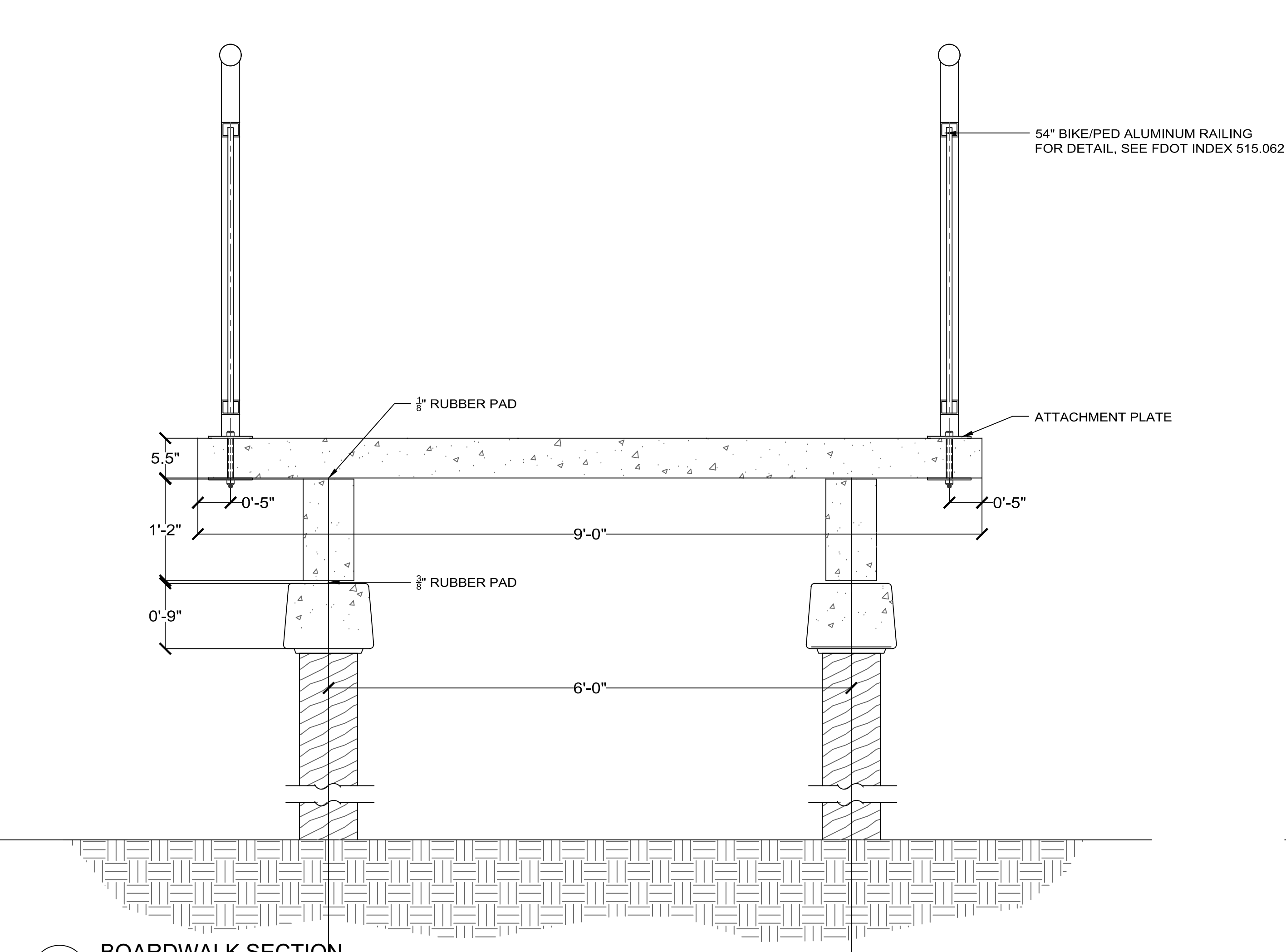
Duane K. Booth, PE  
Registered Eng 44631

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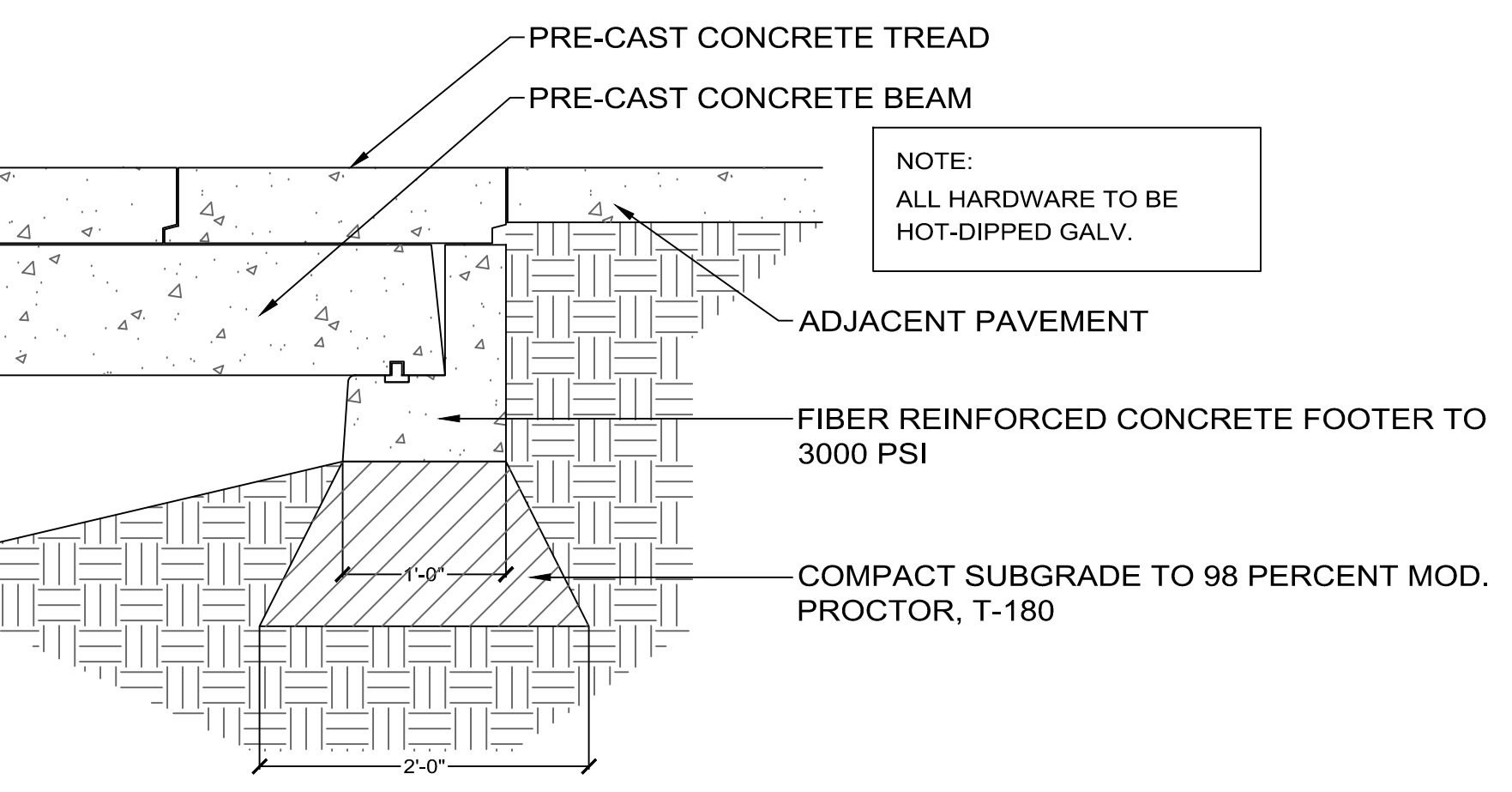
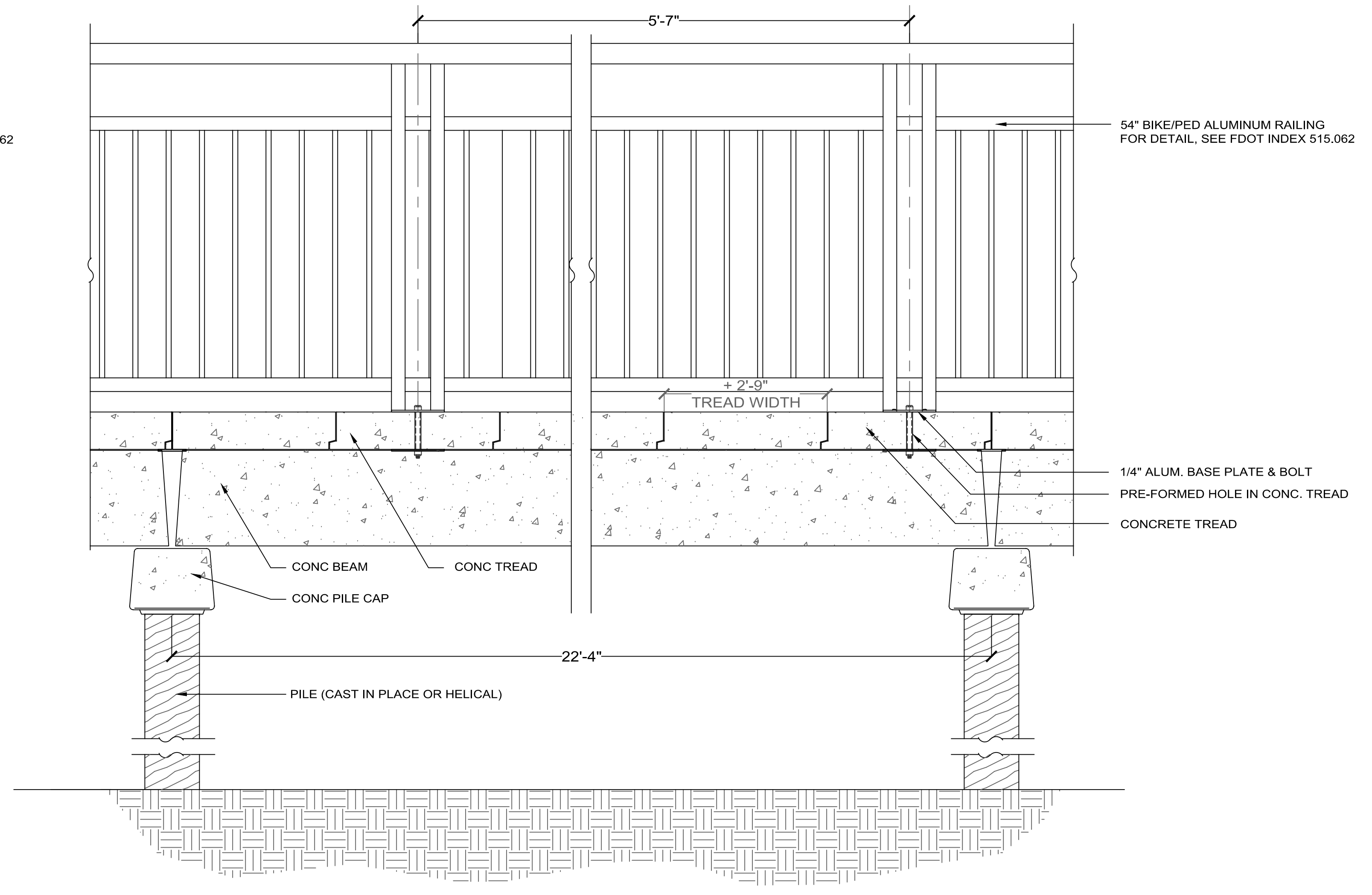




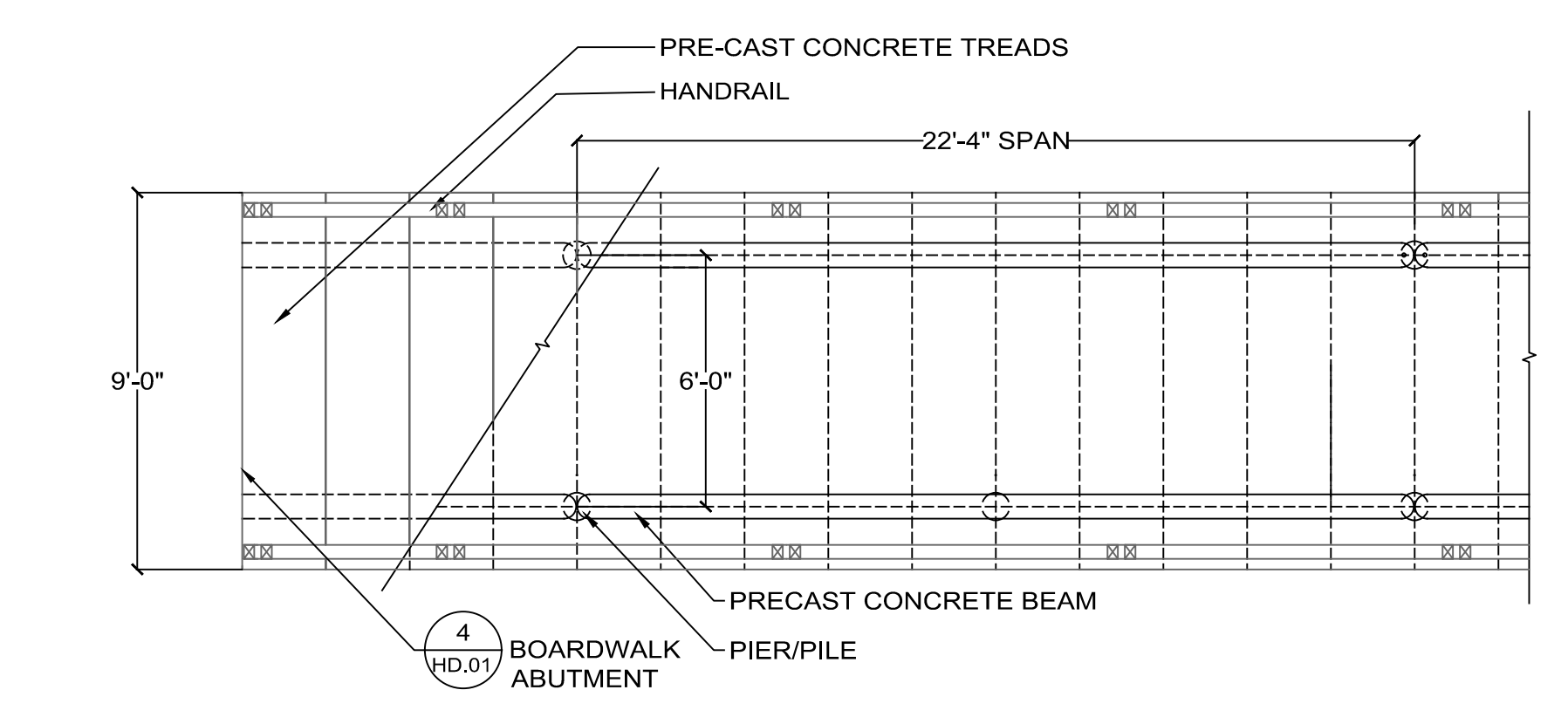
1  
HS.01  
PLAN VIEW  
1" = 30'-0"



2  
HS.01  
BOARDWALK SECTION  
1" = 1'-0"



4  
HS.01  
BOARDWALK LANDING  
1" = 1'-0"



3  
HS.01  
BOARDWALK PLAN  
1/4" = 1'-0"

REVISION	DATE
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LAKE COUNTY, FLORIDA  
CR 455 SOUTH LAKE TRAIL  
BOARDWALK

BOARDWALK DETAILS



**half**  
902 NORTH SINGLAIK AVE  
TAVARES, FLORIDA 32778  
TEL: (352) 340-9461

CERTIFICATE OF AUTHORIZATION NUMBER: 33380

DATE: \*\*\*

DESIGNED BY: RP

DRAWN BY: RP

CHECKED BY: DKB

JOB NO.: 043862.081

FILE NAME: 043862.081 Base

Sheet HS-01

**COMMUNITY SOLUTIONS GROUP**

618 E. SOUTH STREET  
SUITE 700  
ORLANDO, FL 32801  
407 423-8398

A GAI CONSULTANTS, INC SERVICE GROUP  
CERTIFICATE OF AUTHORIZATION: EB9961

R200377.00

Ruth C. Perry, PLA  
Registered LA 1530

7/25/2024 2:44 PM PERRYRC