GENERAL NOTES:

1. The Contractor shall comply with all applicable safety regulations. All construction shall be completed following current City Standard Specifications and Special Provisions.

2. Contractor will be required to provide notice to utility companies a minimum of seventy–two (72) hours prior to any excavation, as follows:

   Kansas One–Call 687–2470

   The Contractor must notify the following in case of an emergency:

AT&T	1–800–246–8464
Black Hills Energy	1–800–694–8989
City of Wichita Water & Sewer	1–316–219–8921
City of Wichita Stormwater	1–316–268–4090
City of Wichita Traffic	1–316–268–4034
Cox Communications	1–888–249–3530
Kansas Gas Service	1–888–482–4950
Westar Energy	1–800–544–4857

3. Utility service lines, poles, etc. are to be adjusted as necessary by others prior to construction unless the plans specifically call for their adjustment by the Contractor or unless the plans specifically identify a utility to be adjusted by its owner during construction. Existing utilities and their location, as shown on the plans, represent the best information obtainable for design. The Contractor will be required to work around existing utilities within the right–of–way which do not conflict with proposed construction.

4. Rubble from the removal of miscellaneous structures and excess excavation which is to be wasted shall be disposed of on sites to be provided by the Contractor. These sites shall be approved by the Engineer as to suitability, appearance and site location. Locations, in the opinion of the Engineer, that will leave an unsightly appearance will not be approved. All disposal sites must be approved by the Kansas Department of Health and Environment. Material either stockpiled or disposed of in a flood plain will require a Kansas State Board of Agriculture permit. Any material dumped in waters of the United States or wetlands is subject to U.S. Corps. of Engineers permitting regulations. Any material buried or stockpiled beyond approved construction limits will require additional archaeological investigations unless buried in a previously approved borrow location.

5. Trees and shrubs in public right–of–way which are in direct conflict with proposed new construction shall be removed by the Contractor with the Engineer's approval. Trees and shrubs which are not in direct conflict with proposed new construction shall be saved and protected from damage.

6. The Contractor shall give all property owners and/or tenants of developed property abutting the construction of this project a minimum of ten (10) days notice prior to start of construction.

7. The Contractor shall be responsible for preserving property irons. The Contractor will be required to re–establish any property irons which are damaged or destroyed by his construction operations. Such irons shall be re–established by a licensed land surveyor in accordance with state laws.

8. The Engineering Division shall field locate water valves one time during construction when requested by the Contractor. It shall be the Contractor's responsibility to preserve such field locations during the construction process. Water valves, valve boxes or fire hydrants damaged during construction shall be repaired by Contractor at his own expense. Valve boxes and water meters within the project limits shall be adjusted to match final grades by the Contractor.

9. If traffic is impacted by construction, a traffic control plan must be submitted and approved by the City Traffic Engineer, Mike Armour at marmour@wichita.gov before construction can begin. The Contractor shall be responsible for all traffic control measures to facilitate construction. All construction zone markings and signage shall conform to the latest version of the Manual on Uniform Traffic Control Devices (MUTCD) as published by the US Dept. of Transportation, Federal Highway Administration. All costs associated with construction markings and signage shall be the Contractors responsibility.

10. All elevations shown are NAVD 88.

11. All disturbed areas during construction that are not under proposed pavement shall be restored according to landscape plans.

12. City maintenance of storm sewer ends at right–of–way or easement line.

13. A portion of excess excavated material shall be mounded around manholes which extend more than one (1) foot above the existing ground. Such mound shall be constructed with new development a six (6) foot diameter flat top with 4 to 1 side slopes down to the original ground. The elevation of the flat top of the mound shall be 0.4 foot below the top to the manhole.

14. Contractor shall limit the extent of trench openings overnight and weekends to less than 50 feet.

15. Contractor shall protect from damage and support existing utilities through construction as approved by the utility owner and the Engineer at the Contractor's expense.

Benchmarks

Horizontal Datum: NAD 83 KRCS ZONE 17
Vertical Datum: NAVD 88

CP–300 Set ⅝" Rebar W/Red CFS Control Cap
N: 399654.2790 E: 17526572.1600 EL: 1336.89

1.	To ℄ of Hoover Rd	58.60' W
2.	To Fence Corner Post	42.1' S
3.	To 12' Tall Chain Link Fence	82.30' E

CP–301 Set ⅝" Rebar W/Red CFS Control Cap
N: 399097.6170 E: 17526486.4900 EL: 1334.20

1.	To ℄ of Hoover Rd	30.20' E
2.	To East Face of Power Pole	25.60' W
3.	To Northeast Corner of Curb Inlet	35.9' WSW
4.	℄ of Froli Rd	31.8' S

CP–302 Set ⅝" Rebar W/Red CFS Control Cap
N: 398365.5900 E: 17526572.3400 EL: 1336.39

1.	To ℄ of Hoover Rd	48.9' W
2.	To West Face of 4' Fence	10.8' E
3.	To Top ℄ of Key of Fire Hydrant	44.2' NNW

CP–303 Set ⅝" Rebar W/Red CFS Control Cap
N: 397688.0300 E: 17526566.0600 EL: 1335.13

1.	To ℄ of Hoover Rd	37.5' W
2.	To ℄ of West Bound Off Ramp	42.6' N
3.	To South Face of Base of Stop Sign	14.0' N

BM#1 Chiseled Square Cut in Northeast Corner of Curb Inlet Near Northwest Intersections of Hoover St. & Froli St. EL: 1335.18

MULTI-USE TRAIL IMPROVEMENTS

to serve

Crystal Prairie Lake Park Phase 1

Hoover Rd. Wichita, KS

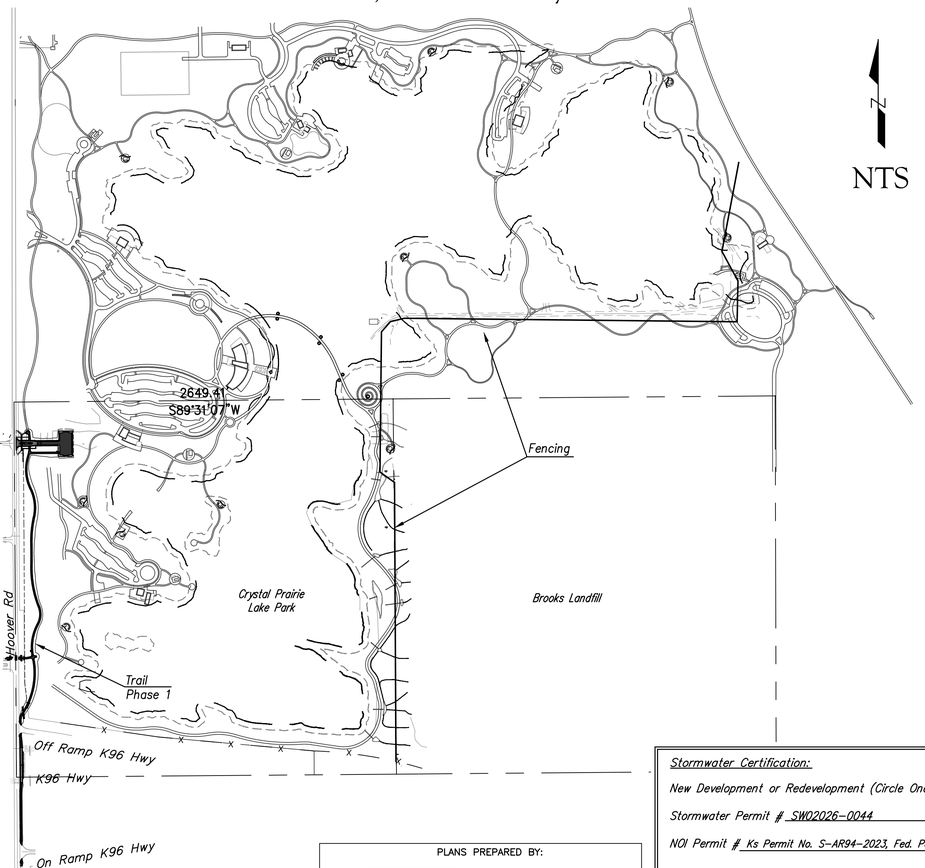
CITY OF WICHITA, KANSAS

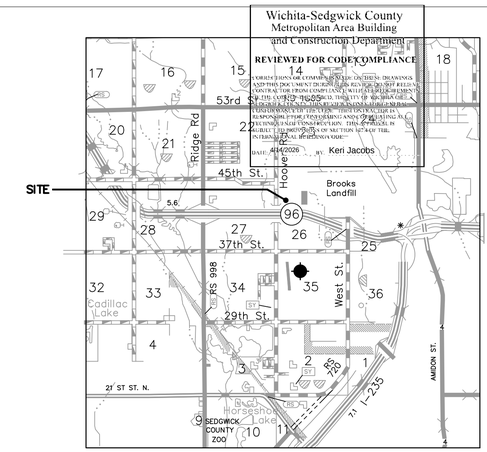
Paul Gunzelman, P.E. City Engineer

482-11068 (R2000)(R5006)

472-2026-086248 Phase 1, Crystal Prairie Lake Median Improvements

458-2025-085639 Phase 1, SWS#831 Crystal Prairie Lake Park





Vicinity Map

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BIDDING PLANS
Cook, Flatt & Strobel
ENGINEERS, P.A.
DATE: April 21, 2026

PLANS PREPARED BY:

CFS ENGINEERS
cfse.com
2930 SW Woodside Dr, Topeka, KS 66614
o: 785-272-4706 f: 785-272-4736

DANIEL N. HOLLOWAY LICENSED #15360 3-5-26 KANSAS PROFESSIONAL ENGINEER

ADAM PROHASKA LICENSED 31453 3-5-26 KANSAS PROFESSIONAL ENGINEER

Sheets 1–55, 68–104

Stormwater Certification:

New Development or Redevelopment (Circle One)

Stormwater Permit # SW02026-0044

NOI Permit # Ks Permit No. S–AR94–2023, Fed. Permit No. KSR123790

These construction plans were prepared in accordance with the current Stormwater management Regulations as set forth in the City of Wichita's Stormwater Management Ordinance 16.32 and the policies/guidelines presented in the Wichita/Sedgwick County Stormwater Manual.

Site Area (Acres) = 9.90 Acres

Disturbed Area (Acres) = 8.30 Acres

Water Quality Treatment: Offsite BMP Program

Downstream Channel Protection: N/A

Detention: Regional Pond

The BMP used for this development is Offsite BMP Program

APPROVED AS NOTED
BY WICHITA PUBLIC WORKS ENGINEERING
AND STORMWATER DIVISION

Engineering Paul Gunzelman

Stormwater Joe Hickle

NOTE TO CONTRACTORS

All Construction and Materials shall comply with the current City Wichita Specifications and Standards and Special Provisions. (on file and available at Wichita.gov).

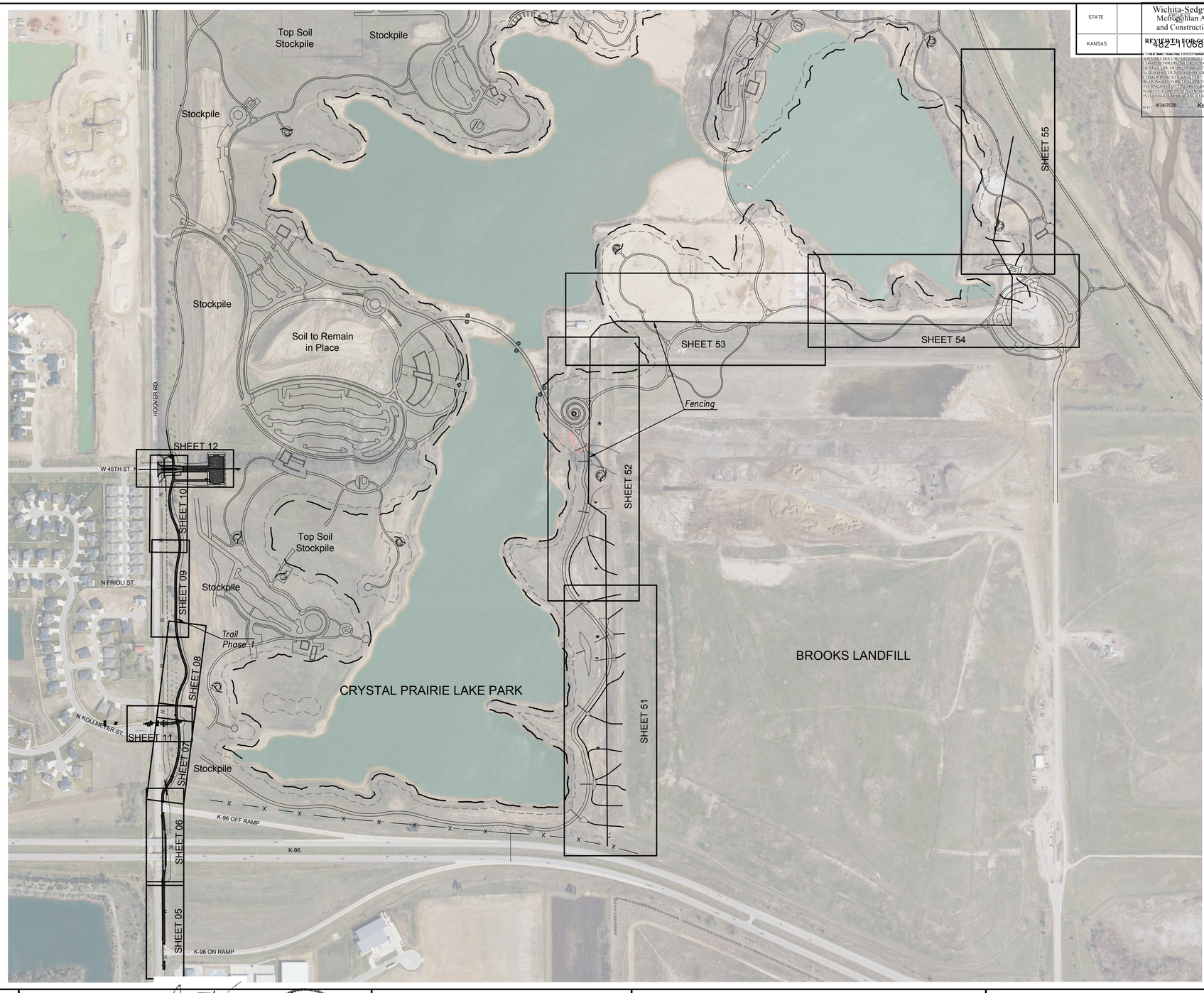
An approved copy of these plans signed by City staff are required on–site.

STATE		Wichita-Sedgwick County Metropolitan Area Building and Construction Department	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS		482-11068	2026	02	104

REVIEWED FOR CODE COMPLIANCE

CODE COMPLIANCE OF THIS PLAN AND SPECIFICATIONS SUBMITTED DOES NOT RELIEVE OWNER OR CONTRACTOR OF THE RESPONSIBILITY TO COMPLY WITH ALL REQUIREMENTS OF THE LAWS OF THE STATE OF KANSAS AND THE CITY OF WICHITA OR OTHER AUTHORITIES HAVING JURISDICTION OVER THE WORK. A COPY OF THIS APPROVED PLAN SHALL BE KEPT ON THE CONSTRUCTION SITE AT ALL TIMES DURING CONSTRUCTION AND OPERATING ALL EQUIPMENT IN CONFORMANCE WITH THIS APPROVAL IN ACCORDANCE WITH THE FOLLOWING SECTION 107.4 OF THE INTERNATIONAL BUILDING CODE.

DATE: 4/14/2026 BY: Keri Jacobs



SCALE: 1"=300'

J:\2016Proj\161006\2024 Trail\Ph 1\CADD\161006 Key Map.dwg 4/09/2026 - 2:12pm

NO.	DATE:	REVISION	BY:	APP'D

DRAWN BY: JMD

APP'D BY: DWH

CFS ENGINEERS

DANIEL W. HOLLOWAY LICENSED 15360 4-5-26 KANSAS PROFESSIONAL ENGINEER

ADAM PROHASKA LICENSED 31453 4-5-26 KANSAS PROFESSIONAL ENGINEER

CITY OF WICHITA

MULTI-USE TRAIL
CRYSTAL PRAIRIE LAKE PARK
PHASE I
482-11068 (R2000)(R5006), 472-2026-086248, 458-2025-085639
WICHITA, KS

KEY MAP

DATE: Feb. 2026
SHEET: 02 of 104
PROJ.: 16-1006

STATE		Wichita-Sedgwick County Metropolitan Area Building and Construction Department	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS		REVIEWED FOR CODE COMPLIANCE	2026	03	104

482-11068

CONSTRUCTION SHALL COMPLY WITH APPLICABLE CODES, ORDINANCES AND REGULATIONS. REVIEW AND APPROVAL OF THIS DOCUMENT DURING THE PLAN REVIEW DO NOT RELIEVE THE CONTRACTOR FROM COMPLYING WITH ALL REQUIREMENTS OF THE CODES OF THE MUNICIPALITY, THE CITY OF WICHITA OR SEDGWICK COUNTY. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN ALL NECESSARY PERMITS AND INSPECTIONS. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING AND OPERATING ALL TECHNIQUES OF CONSTRUCTION. THIS APPROVAL IS SUBJECT TO PROVISIONS OF SECTION 107.4 OF THE INTERNATIONAL BUILDING CODE.

DATE: 4/14/2026 BY: Keri Jacobs

General Notes:

1. *All quantities listed are considered to be approximate and should be verified by the Contractor.*
2. *The Contractor is responsible for all permits and fees for construction that are not acquired by the City.*
3. *The Contractor is responsible for all traffic control. Traffic control plans must be submitted to the City for review and must be approved prior to construction.*
4. *The Contractor is responsible for all permits, fees, connection costs, etc. associated with all utility hook-ups, if needed for construction.*
5. *Written dimensions shall prevail over scaled dimensions.*
6. *The location of all underground utilities may vary from what is indicated in the plans. It shall be the Contractor's responsibility to coordinate with the utility owner to locate and flag all underground utilities whether indicated or not. No excavation shall be permitted in the area of underground utilities until all such utilities have been located and identified to the satisfaction of all parties. Any damage to the utility shall be repaired or replaced by the utility company at the expense of the Contractor.*
7. *The Contractor is fully responsible for notifying all utility companies encountered during the project. Utilities shown are not represented as all inclusive as other utilities may be present. The Contractor shall have all utilities flagged in the field for inspection prior to proceeding with any grading / construction operations.*
8. *Transitions in profile grade along the Trail must be 5% or less. Cross Slope shall be 2% or less.*
9. *The Contractor shall have at least one (1) signed copy of the plans (approved by the City of Wichita) and one (1) copy of the appropriate design and construction standards and specifications at the job site at all times.*
10. *The Contractor shall submit shop drawings for approval by the Engineer prior to construction.*
11. *The traffic control requirement shown in these plans are minimum requirements only and do not attempt to address in depth the variety of situations that may occur once construction has started. In no way do the requirements shown in these plans relieve the Contractor of their his responsibility for selecting the proper traffic control devices and implementation procedures that will assure the safety of motorist, pedestrians and workers at all times. All traffic control signs and barricades shall be fabricated and installed in accordance with the latest M.U.T.C.D.*
12. *The field survey information shown on the drawings represent the existing topographic conditions as best as could be determined at the time of the survey.*
13. *The Contractor shall follow the design criteria documents of the Public Right of Way Accessibility Guidelines (PROWAG), Guide for the Development of Pedestrians and Bicycle Facilities.*
14. *This project shall be constructed using Kansas Department of Transportation (KDOT) Standard Specifications for State Road and Bridge (2015 Edition) including all the latest revisions and special provision unless otherwise stated in the plans or specifications.*
15. *It shall be the responsibility of the Contractor to restore, seed, and /or complete other operations noted in the agreement between the land owner and the Contractor on all disturbed areas used to provide borrow areas for Contractor furnished borrow.*
16. *Access to this project is from the public right-of-way. Any permission for access across private property shall be obtained by the Contractor and be in writing prior to the use of the private property.*
17. *The Contractor shall submit his Storm Water Pollution Prevention Plan (SWPPP), developed by qualified personnel, to Engineer for approval and permitting prior to construction.*
18. *The Contractor shall maintain drainage and erosion control during construction and is responsible for all de-watering necessary during construction. The Contractor shall be responsible for all permitting, following local, state, and federal erosion and sedimentation control requirements.*
19. *The Contractor is responsible to contact and coordinate with the various governmental units through whose jurisdiction the project passes.*
20. *All off-site borrow and waste area locations shall be approved by the Kansas Historical Society and the Kansas Department of Wildlife and Parks prior to any excavations. Borrow material for fill is located on-site. Top Soil and other approved soil can be stockpiled on Crystal Prairie Lake Park Property as directed by the City. All construction and demolition materials: pavement, fencing, etc. shall be wasted off-site.*

Construction

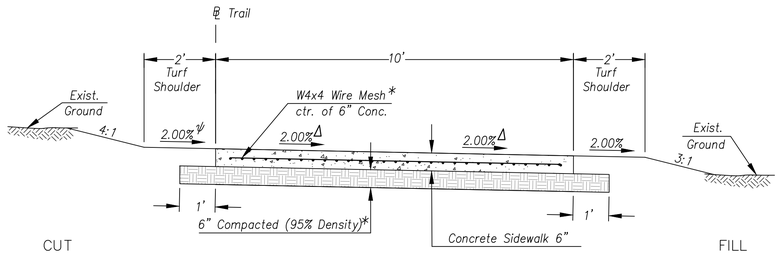
1. *All construction debris shall be disposed of by the Contractor off site at a location provided by the Contractor and approved by the Kansas Department of Health and Environment and Kansas Dept. of Agriculture (Board of Water Resources), Kansas Historical Society and Kansas Dept. of Wildlife and Parks.*
2. *The Contractor shall submit a temporary traffic control plan to the Engineer for approval prior to implementation. The Contractor must provide verification/ for personnel developing traffic control plans per KDOT Specifications.*
3. *Slope protection (Riprap Stone) shall be 2' deep.*
4. *Contraction Joints shall be placed at 10' maximum intervals. Expansion Joints (Isolation Joints) shall be placed at 100' max spacing along trail, existing/proposed sidewalk intersections, bridges, structures, curbs, and as shown on plans.*

Grading and Site Clearing

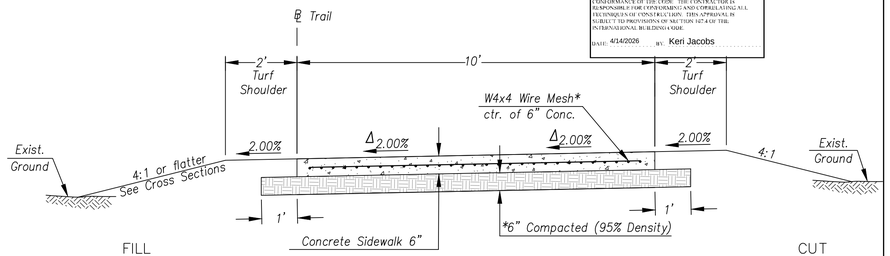
1. *All vegetated areas disturbed during the progress of the project shall be graded and otherwise restored as shown on plans and to a condition acceptable to City of Wichita. The Contractor is responsible for seeding all disturbed areas beyond trail surface. Vegetated areas shall be maintained by the contractor until at least 70% of the grass is permanently established.*
2. *Site clearing is the removal of all vegetation in the trail recovery area as specified on the typical section or on the cross sections. Contractor shall review exist. trees with City prior to removal to determine if exist. tree can remain in place.*
3. *Any vegetation with over 50% of the roots exposed prior to construction may be removed.*
4. *Any material buried or stockpiled beyond approved construction limits would require additional archaeological investigation unless buried in a previously approved borrow location.*
5. *The Contractor shall conduct a job-site inspection as to the extent of clearing required prior to submitting a bid.*
6. *Contractor shall remove trees, brush, and debris from project and dispose of off-site.*
7. *The Contractor shall chemically treat stumps from woody vegetation that are not required to be moved for construction of the trail with "Tordon" or preapproved equal. This does not include trimming of branches.*
8. *All borrow and top soil is available on site.*

Bidding

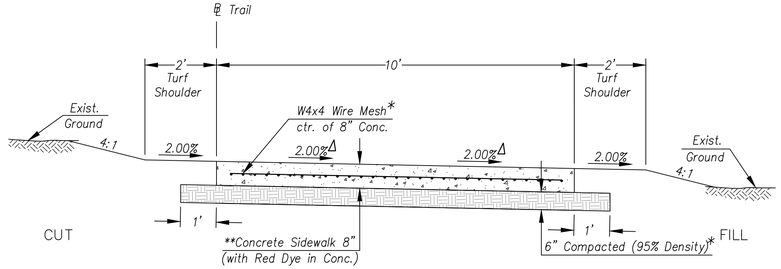
1. *The Contractor shall review the existing trail on-site prior to submitting a bid.*



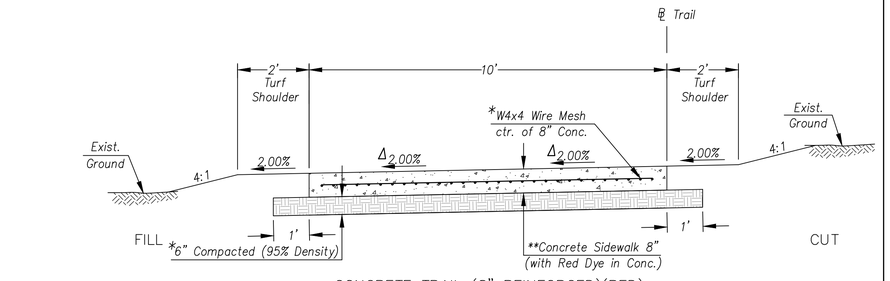
CONCRETE TRAIL (6")
TYPICAL SECTION
Sta. 9+95.00 to Sta. 10+17.00
Sta. 18+40.00 to Sta. 19+05.27
Sta. 50+20.00 to Sta. 50+47.33
Sta. 51+12.17 to Sta. 51+50.00
Sta. 51+70.00 to Sta. 51+96.67
Sta. 52+06.67 to Sta. 52+26.67
**SUBSIDIARY* to Other Bid Items.



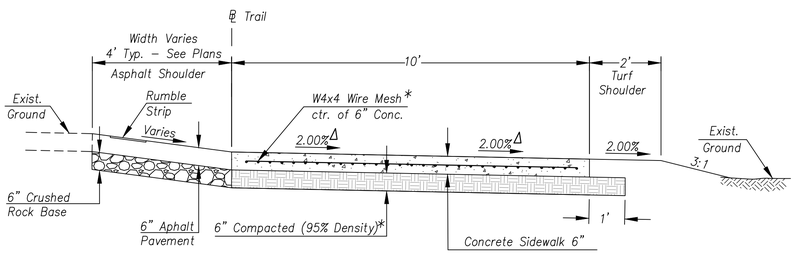
CONCRETE TRAIL (6")
TYPICAL SECTION
Sta. 20+07.74 to Sta. 23+00.00
Sta. 23+20.00 to Sta. 26+00.00
Sta. 26+20.00 to Sta. 39+70.52
Sta. 40+31.85 to Sta. 40+50.00
**SUBSIDIARY* to Other Bid Items.



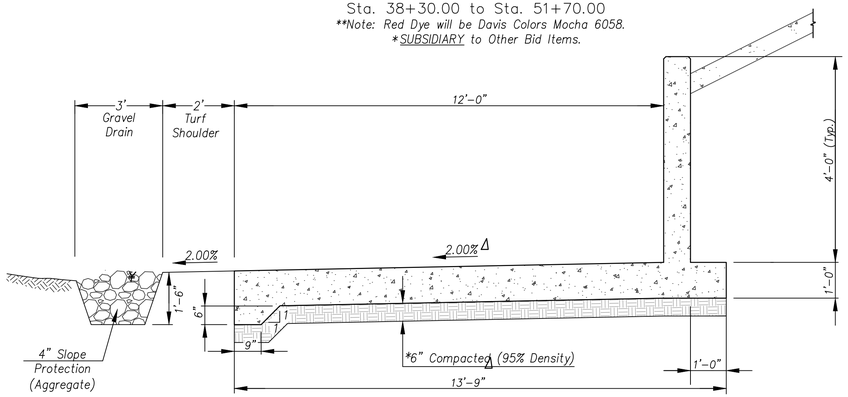
CONCRETE TRAIL (8" REINFORCED)(RED)
TYPICAL SECTION
Sta. 51+50.00 to Sta. 51+70.00
***Note: Red Dye will be Davis Colors Mocha 6058.*
**SUBSIDIARY* to Other Bid Items.



CONCRETE TRAIL (8" REINFORCED)(RED)
TYPICAL SECTION
Sta. 23+00.00 to Sta. 23+20.00
Sta. 26+00.00 to Sta. 26+20.00
Sta. 38+30.00 to Sta. 51+70.00
***Note: Red Dye will be Davis Colors Mocha 6058.*
**SUBSIDIARY* to Other Bid Items.



CONCRETE TRAIL (6")
TYPICAL SECTION
Sta. 11+71.00 to Sta. 15+50.00
**SUBSIDIARY* to Other Bid Items.



CONCRETE RETAINING WALL AND SIDEWALK
TYPICAL SECTION
Sta. 15+80.00 to Sta. 18+20.00
See Sheet. 23 and 24 for Ret. Wall Details

Δ Note: All Trail and sidewalk cross slopes shall not exceed a maximum of a 2.00% or a minimum 1.50%. Contractor may adjust cross slope within these limits as needed.

¥ Note: Install Gravel Drain from Sta. 15+50.00 to Sta. 18+40.00

NO.	DATE:	REVISION	BY:	APP'D

DRAWN BY: JMD
APP'D BY: DWH

CFS ENGINEERS

DANIEL W. HOLLOWAY LICENSED #15360 4-5-26 KANSAS PROFESSIONAL ENGINEER

ADAM PROHASKA LICENSED 31453 4-5-26 KANSAS PROFESSIONAL ENGINEER

CITY OF WICHITA

MULTI-USE TRAIL
CRYSTAL PRAIRIE LAKE PARK
PHASE I
482-11068 (R2000)(R5006), 472-2026-086248, 458-2025-085639
WICHITA, KS

GENERAL NOTES
&
TYPICAL SECTIONS

DATE: Feb. 2026
SHEET: 03 of 104
PROJ.: 16-1006

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STATE		Wichita-Sedgwick County Metropolitan Area Building and Construction Department	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS		REVIEWED FOR CODE COMPLIANCE	2026	04	104

482-11068

CONSTRUCTION DOCUMENTS MAY BE REVISED AND SUPERSEDED BY ADDENDA AND THIS DOCUMENT DURING BIDDING. BIDS REVIEW DO NOT RELIEVE CONTRACTOR FROM COMPLIANCE WITH ALL REQUIREMENTS OF THE CODES OF THE MCAB/D, THE CITY OF WICHITA OR SEDGWICK COUNTY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONSTRUCTION OF THE CONSTRUCTION SITE, SAFETY OF THE CONSTRUCTION SITE, AND SHALL BE RESPONSIBLE FOR COORDINATING AND OPERATING ALL TECHNIQUES OF CONSTRUCTION. THIS APPROVAL IS SUBJECT TO THE PROVISIONS OF SECTION 107.4 OF THE INTERNATIONAL BUILDING CODE.

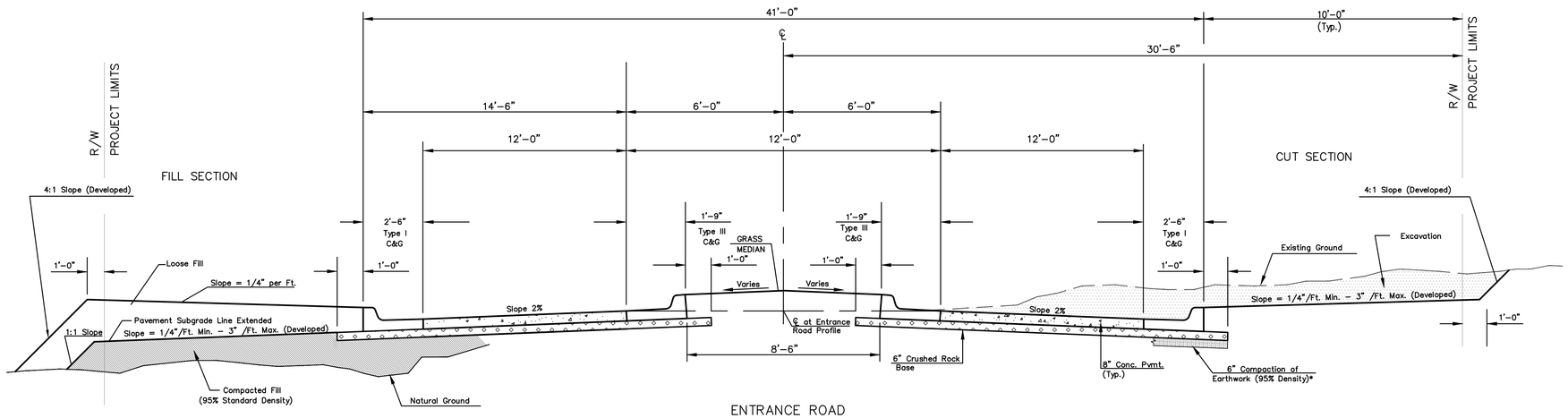
DATE: 4/14/2026 BY: Keri Jacobs

Required Submittals:

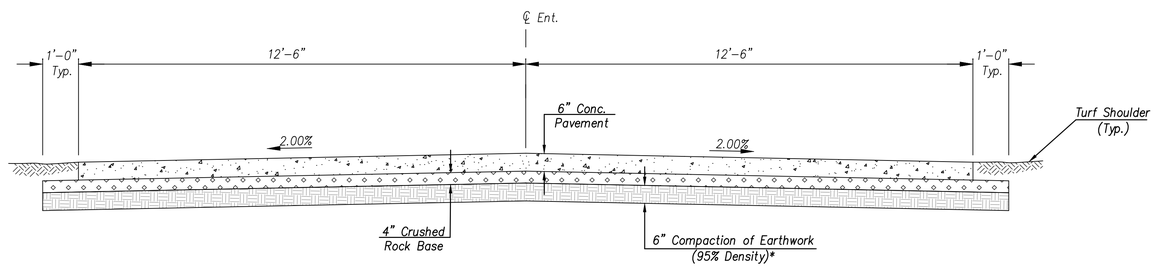
Contractor shall submit shop drawing and submittals for all items to be constructed or installed on the project. Shop Drawings and Submittals provided by the Contractor shall include, but not limited to the following items:

1. *Fence materials including Hinges and Latches*
2. *Plant materials, including Seed Mixes*
3. *Concrete Mixes*
4. *Collapsible Bollards*
5. *Trash Stand*
6. *Wood Bollards*
7. *Monument Signs*
8. *Traffic Signal*
9. *Brick Pavers*
10. *Gate*
11. *Benches*
12. *Artwork*
13. *Exposed Aggregate Paving*
14. *Pavement Markings*

TYPICAL SECTION



ENTRANCE ROAD
TYPICAL SECTION
Sta. 100+40.00 to Sta. 101+15.00
Transition Sta. 101+15.00 to 101+62.21 – See Below
**SUBSIDIARY to Other Bid Items.*



ENTRANCE ROAD TYPICAL SECTION
Sta. 101+62.21 to Sta. 104+01.79
Parking Lot to match Typical Section for pavement.
**SUBSIDIARY to Other Bid Items.*

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NO.	DATE:	REVISION	BY:	APP'D

DRAWN BY: JMD
APP'D BY: DWH

CFS ENGINEERS

DANIEL W. HOLLOWAY — LICENSED — #15369 — 3-5-26 — KANSAS — PROFESSIONAL ENGINEER

ADAM PROHASKA — LICENSED — 31459 — 3-5-26 — KANSAS — PROFESSIONAL ENGINEER

CITY OF WICHITA

MULTI-USE TRAIL
CRYSTAL PRAIRIE LAKE PARK
PHASE I
482-11068 (R2000)(R5006), 472-2026-086248, 458-2025-085639
WICHITA, KS

ROADWAY AND PAVEMENT
TYPICAL SECTIONS

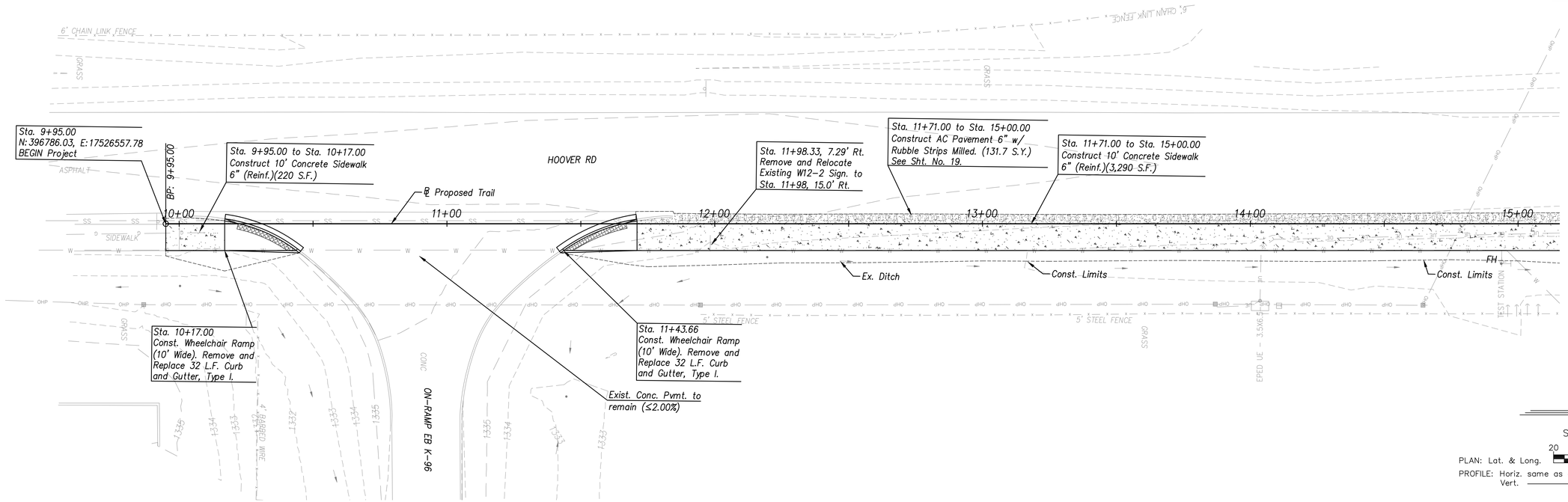
DATE: Feb. 2026
SHEET: 04 of 104
PROJ.: 16–1006

STATE		Wichita-Sedgwick County Metropolitan Area Building and Construction Department	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS		482-11068	2026	05	104

REVIEWED FOR CODE COMPLIANCE

CONSTRUCTION SHALL CONFORM TO APPLICABLE CODES AND THIS DOCUMENT DURING PLAN REVIEW. DO NOT RELIEVE CONTRACTOR FROM COMPLIANCE WITH ALL REQUIREMENTS OF THE CODE OF THE MCBCD, THE CITY OF WICHITA OR SEDGWICK COUNTY. THE CONTRACTOR IS RESPONSIBLE FOR THE CONSTRUCTION OF THE PROJECT AND IS RESPONSIBLE FOR CONFORMING AND COORDINATING ALL TECHNIQUES OF CONSTRUCTION. THIS APPROVAL IS SUBJECT TO PROVISIONS OF SECTION 107.4 OF THE INTERNATIONAL BUILDING CODE.

DATE: 4/14/2026 BY: Keri Jacobs



LEGEND

Drainage Arrow

8" Conc. Sidewalk (Red)

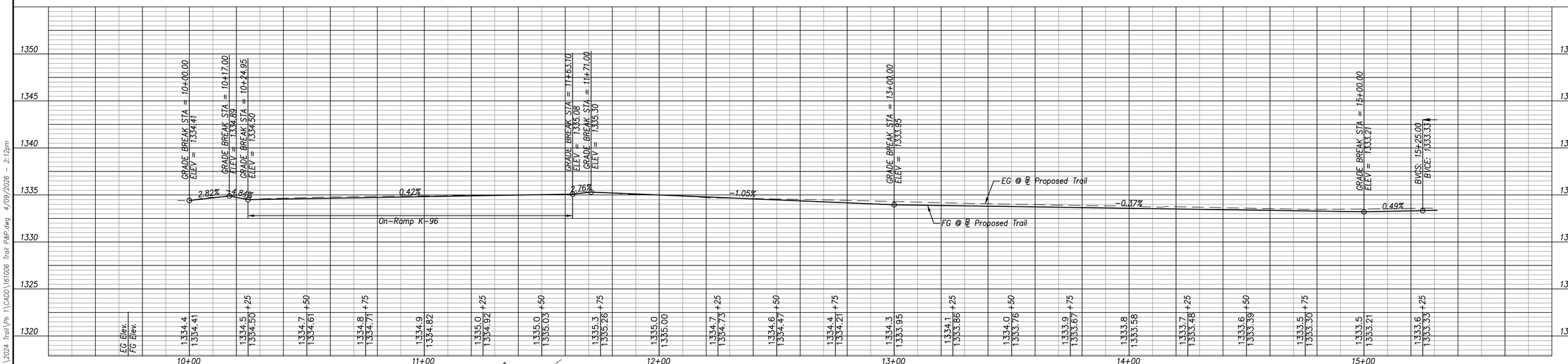
Note: Site Grading will not cause additional adverse drainage impacts onto neighboring properties.

SCALE IN FEET

20 0 20 40

PLAN: Lat. & Long.

PROFILE: Horiz. same as above
Vert.



NO.	DATE:	REVISION	BY:	APP'D

DRAWN BY: JMD

APP'D BY: DWH

CFS ENGINEERS

DANIEL W. HOLLOWAY — LICENSED — 15360 — 4-5-26 — KANSAS — PROFESSIONAL ENGINEER

ADAM PROHASKA — LICENSED — 31453 — 4-5-26 — KANSAS — PROFESSIONAL ENGINEER

CITY OF WICHITA

MULTI-USE TRAIL
CRYSTAL PRAIRIE LAKE PARK
PHASE I
482-11068 (R2000)(R5006), 472-2026-086248, 458-2025-085639
WICHITA, KS

PLAN & PROFILE
Sta. 9+95.00 to Sta. 15+00.00

DATE: Feb. 2026
SHEET: 05 of 104
PROJ.: 16-1006

J:\2016Proj\161006\2024 Trail\Ph 1\CADD\161006 Trail P&P.dwg 4/09/2026 - 2:12pm

STATE		Wichita-Sedgwick County Metropolitan Area Building and Construction Department	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS		REVIEWED FOR CODE COMPLIANCE	482-11068 2026	06	104

THIS SET OF CONSTRUCTION DOCUMENTS IS SUBJECT TO THE CONDITIONS OF THE BUILDING PERMIT AND THIS DOCUMENT DURING THIS REVIEW. DO NOT RELIEVE CONTRACTOR FROM COMPLIANCE WITH ALL REQUIREMENTS OF THE CODES OF THE MUNICIPAL CITY OF WICHITA OR SEDGWICK COUNTY. THE CONTRACTOR IS RESPONSIBLE FOR CONFORMANCE WITH ORDINANCE OF 12TH EDITION. THE CONTRACTOR IS RESPONSIBLE FOR CONFORMING AND COORDINATING ALL TECHNIQUES OF CONSTRUCTION. THIS APPROVAL IS SUBJECT TO PROVISIONS OF SECTION 107.4 OF THE INTERNATIONAL BUILDING CODE.

DATE: 4/14/2026 BY: Keri Jacobs

Sta. 15+00.00 to Sta. 15+25.00
Construct 4' Asphalt Pavement 6" w/ Rubble Strips Milled. (11.7 S.Y.)

Sta. 15+00.00 to Sta. 15+32.75
Construct 10' Concrete Sidewalk 6" (Reinf.)(250 S.F.)

Sta. 15+32.75 to Sta. 15+80.00
Transition from 10' to 12' Concrete Sidewalk 6" (Reinf.)(566 S.F.)

W ¼ COR SEC 26 T26S R01W
⅝" REBAR NO CAP
(RECORD TIES)

Sta. 15+80.00 to Sta. 18+20.00
Construct Conc. Retaining Wall and Sidewalk (12')(890 S.F.F.)
See Sht. No. 23 and 24

Sta. 16+00.00 to Sta. 18+00.00
Remove Exist. Structures (Conc. Riprap) Install 131 S.Y. Riprap (Reinforced Concrete)(6")

Sta. 18+20.00 to Sta. 18+50.00
Const. Transition from 10' to 12' Conc. Sidewalk 6" (Reinf.)(333 S.F.)

Sta. 18+50.00 to Sta. 19+05.27
Construct 10' Concrete Sidewalk 6" (Reinf.)(551 S.F.)

Sta. 19+05.27
Const. Wheelchair Ramp (10' Wide). Remove and Replace 29 L.F. Curb and Gutter, Type I.

PC: 15+25.00
PT: 15+32.75
PC: 15+65.06
PT: 15+71.51
PI: 18+50.00
PI: 19+00.00
PC: 20+15.38
3.09
2.24

Exist. Inertial Barrier
Const. Limits
Gravel Ditch Lining
See Typical Section
℄ Proposed Trail
Exist. Conc. Safety Barrier
Exist. Bridge Column (Typ.)
½" Expansion Joint
Conc. Retaining Wall
FH
5' STEEL FENCE
IPF – 2" PIPE IN CONC– IPF – FENCE POST
IPF – 5/8" REBAR BENT
CP 303
HOOVER RD
ASPHALT
K-96 WB OFF-RAMP
OFF RAMP
Exist. Conc. Pvmt. to remain (≤2.00%)
K96 HWY
K96 HWY

15+00 16+00 17+00 18+00 19+00 20+00

LEGEND
Drainage Arrow
8" Conc. Sidewalk (Red)

Note: Site Grading will not cause additional adverse drainage impacts onto neighboring properties.

SCALE IN FEET
20 0 20 40

PLAN: Lat. & Long.
PROFILE: Horiz. same as above
Vert.

5 0

GRADE BREAK STA = 15+00.00
ELEV = 1333.21
0.49%
LOW PT STA: 15+25.00
LOW PT ELEV: 1333.33
PVI STA: 15+50.00
PVI ELEV: 1333.45
K: 21.59
LVC: 50.00
BVCS: 15+25.00
BVCE: 1333.33
Edge Proposed Trail
EVCS: 15+75.00
EVCE: 1334.30
GRADE BREAK STA = 15+80.00
ELEV = 1334.30
2.81%
+50.00
Trans. Cross Slope
FG @ ℄ Proposed Trail
0.00%
EG @ ℄ Proposed Trail
GRADE BREAK STA = 18+20.00
ELEV = 1334.30
2.21%
+25.00
Trans. Cross Slope
+50.00
GRADE BREAK STA = 18+50.00
ELEV = 1334.96
1.34%
GRADE BREAK STA = 19+05.27
ELEV = 1335.70
4.30%
GRADE BREAK STA = 19+11.35
ELEV = 1335.44
1.15%
Off-Ramp K-96
GRADE BREAK STA = 20+00.38
ELEV = 1336.46
3.73%
GRADE BREAK STA = 20+07.74
ELEV = 1336.74

| | 15+00 | | |

STATE		Wichita-Sedgwick County Metropolitan Area Building and Construction Department	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS		REVIEWED FOR CODE COMPLIANCE	2026	07	104

482-11068

THIS DOCUMENT IS REVIEWED FOR CODE COMPLIANCE ONLY. CONSTRUCTION SHALL COMPLY WITH ALL APPLICABLE CODES AND THIS DOCUMENT DURING THE REVIEW. DO NOT RELIEVE CONTRACTOR FROM COMPLIANCE WITH ALL REQUIREMENTS OF THE CODE OF THE MUNICIPALITY. THE CITY OF WICHITA OR ITS AGENTS ASSUME NO RESPONSIBILITY FOR CONSTRUCTION MEANS, METHODS, WORKMANSHIP OF THE CONTRACTOR. THE CONTRACTOR IS RESPONSIBLE FOR CONFORMING AND CORRELATING ALL DIMENSIONS OF CONSTRUCTION. THIS APPROVAL IS SUBJECT TO PROVISIONS OF SECTION 107.4 OF THE INTERNATIONAL BUILDING CODE.

DATE: 4/14/2026 BY: Keri Jacobs

HOOVER RD
ASPHALT
KOLLMETER ST
RCP
CP
See Sht. 11 for detail.
See Landscape Sheets for improvements.
R/W
Const. Limits
4' STEEL FENCE
Sta. 20+82.00 Install 24"x70' Pipe, SWS (RCP) with 2 End Sections. Install Riprap (light Stone) at each end. (5.6 S.Y.)
PC: 20+15.38
PT: 20+63.01
PC: 20+63.04
20+00
21+00
22+00
23+00
24+00
25+00
Sta. 21+30.00 to Sta. 25+00.00 Lt. Grade area to drain with borrow material from on-site. See Cross Sections.
Sta. 21+50.00 Install "H" Brace Set (4 Total) on each side and connect to exist. fence.
Sta. 21+50.00, 5' Rt. Install Collapsible Bollard
Sta. 20+07.74. Const. Wheelchair Ramp (10' Wide). Remove and Replace 32 L.F. Curb and Gutter, Type I.
Sta. 20+07.74 to Sta. 23+00.00 Construct 10' Concrete Sidewalk 6" (Reinf.)(2,916 S.F.)
Sta. 23+20.00 to Sta. 25+00.00 Construct 10' Concrete Sidewalk 6" (Reinf.)(1,811 S.F.)
℄ Proposed Trail
PC
338' R
290' R
554.71'
884.89'
5'
Sta. 21+50.00 Remove and reinstall 37 L.F. Exist. Fence.
1' Clear (Typ.) Wood Bollard (Domed)(2 Total)
Note: Site Grading will not cause additional adverse drainage impacts onto neighboring properties.
LEGEND
Drainage Arrow
8" Conc. Sidewalk (Red)
Tree Removal
Const. Limits
Crystal Prairie Lake Park
Sta. 23+00.00 to Sta. 23+20.00 Construct 10' Concrete Sidewalk 8" (Reint.)(Red)(202 S.F.)
SCALE IN FEET
20 0 20 40
PLAN: Lat. & Long.
PROFILE: Horiz. same as above
Vert.

GRADE BREAK STA = 20+00.38
ELEV = 1336.46
GRADE BREAK STA = 20+07.74
ELEV = 1336.74
7.38'
Master Plan FG @ ℄ Proposed Trail
0.16%
FG @ ℄ Proposed Trail
Proposed Pipe, Storm Sewer 24"
℄ In (NW) = 1333.20'
℄ Out (SE) = 1333.00'
EG @ ℄ Proposed Trail

	20+00	20+25	20+50	20+75	21+00	21+25	21+50	21+75	22+00	22+25	22+50	22+75	23+00	23+25	23+50	23+75	24+00	24+25	24+50	24+75	25+00
EG Elev.	1336.5	1336.5	1335.3	1333.5	1334.2	1334.2	1333.6	1333.3	1333.2	1333.2	1333.1	1333.2	1333.3	1333.3	1333.2	1333.2	1333.2	1333.2	1333.2	1333.5	1333.8
FG Elev.	1336.46	1336.76	1336.80	1336.84	1336.88	1336.92	1336.96	1337.00	1337.04	1337.07	1337.11	1337.15	1337.19	1337.23	1337.27	1337.31	1337.35	1337.39	1337.42	1337.46	1337.50

NO.	DATE:	REVISION	BY:	APP'D

DRAWN BY: JMD
APP'D BY: DWH

CFS ENGINEERS

DANIEL W. HOLLOWAY — LICENSED — #15360 — 3-5-26 — KANSAS — PROFESSIONAL ENGINEER

ADAM PROHASKA — LICENSED — 31453 — 3-5-26 — KANSAS — PROFESSIONAL ENGINEER

CITY OF WICHITA

MULTI-USE TRAIL
CRYSTAL PRAIRIE LAKE PARK
PHASE I
482-11068 (R2000)(R5006), 472-2026-086248, 458-2025-085639
WICHITA, KS

PLAN & PROFILE
Sta. 20+00.00 to Sta. 25+00

DATE: Feb. 2026
SHEET: 07 of 104
PROJ.: 16-1006

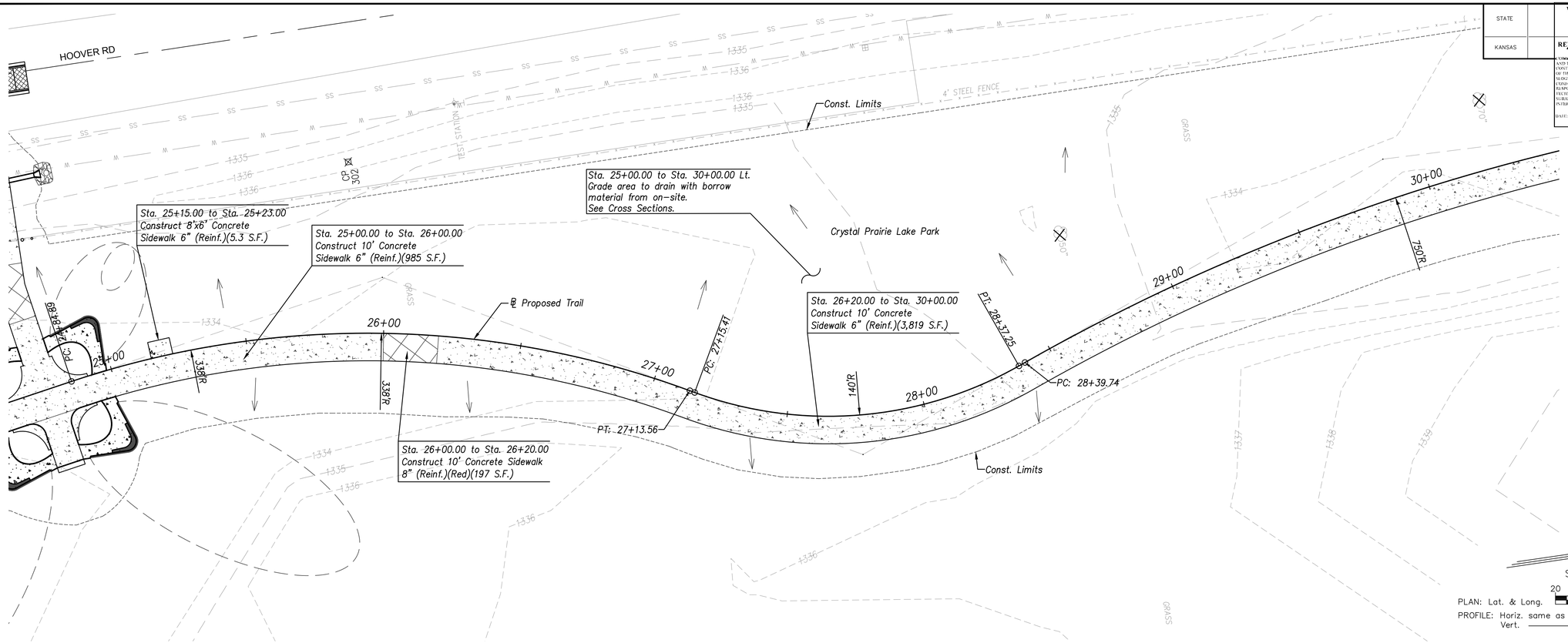
J:\2016Proj\161006\2024 Trail\Ph 1\CADD\161006 Trail P&P.dwg 4/09/2026 - 2:12pm

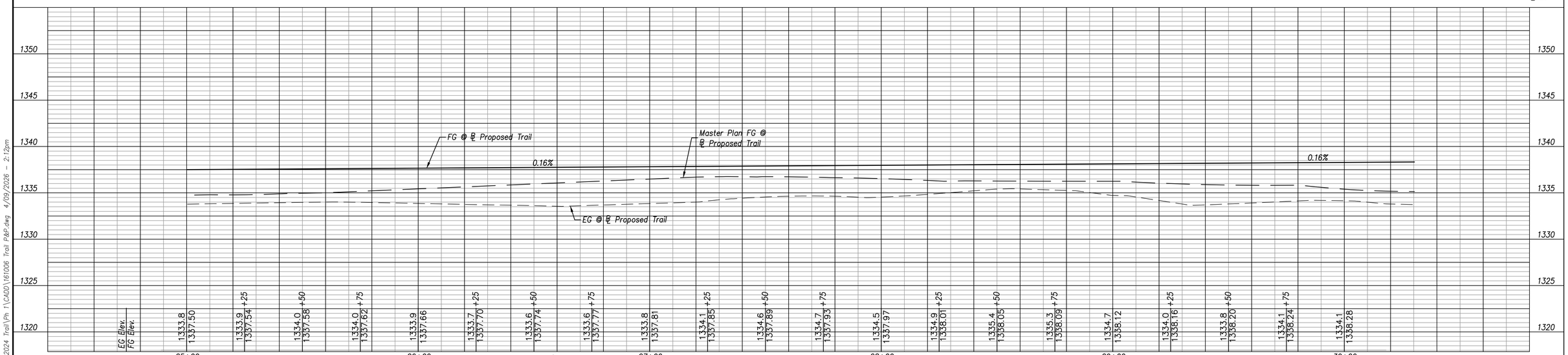
STATE		Wichita-Sedgwick County Metropolitan Area Building and Construction Department	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS		482-11068	2026	08	104

REVIEWED FOR CODE COMPLIANCE

THIS SET/SUBMITTAL/SUBSTITUTION/VARIANCE/CHANGE/ADDENDUM AND THIS DOCUMENT DURING THE REVIEW DO NOT RELIEVE CONTRACTOR FROM COMPLIANCE WITH ALL REQUIREMENTS OF THE CODE OF THE MUNICIPAL THE CITY OF WICHITA OR SEDGWICK COUNTY, KANSAS AS ADOPTED BY THE BOARD OF COUNTY COMMISSIONERS IN ACCORDANCE OF THE CODE. THE CONTRACTOR IS RESPONSIBLE FOR CONFORMING AND COORDINATING ALL TECHNIQUES OF CONSTRUCTION. THIS APPROVAL IS SUBJECT TO PROVISIONS OF SECTION 107.4 OF THE INTERNATIONAL BUILDING CODE.

DATE: 4/14/2026 BY: Keri Jacobs





NO.	DATE:	REVISION	BY:	APP'D

DRAWN BY: JMD

APP'D BY: DWH

CFS ENGINEERS

DANIEL W. HOLLOWAY #15369 LICENSED PROFESSIONAL ENGINEER 4-5-26 KANSAS

ADAM PROHASKA LICENSED 31459 PROFESSIONAL ENGINEER 4-5-26 KANSAS

CITY OF WICHITA

MULTI-USE TRAIL
CRYSTAL PRAIRIE LAKE PARK
PHASE I
482-11068 (R2000)(R5006), 472-2026-086248, 458-2025-085639
WICHITA, KS

PLAN & PROFILE
Sta. 25+00.00 to Sta. 30+00

DATE: Feb. 2026
SHEET: 08 of 104
PROJ.: 16-1006

J:\2016Proj\161006\2024 Trail\Ph 1\CADD\161006 Trail P&P.dwg 4/09/2026 - 2:12pm

STATE		Wichita-Sedgwick County Metropolitan Area Building and Construction Department	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS		482-11068	2026	09	104

REVIEWED FOR CODE COMPLIANCE

CONSTRUCTION SHALL COMPLY WITH ALL APPLICABLE CODES AND THIS DOCUMENT DURING THE REVIEW DO NOT RELIEVE CONTRACTOR FROM COMPLIANCE WITH ALL REQUIREMENTS OF THE CODES OF THE MUNICIPAL CITY OF WICHITA AND SEDGWICK COUNTY. IT IS THE CONTRACTOR'S LEGAL RESPONSIBILITY TO CONFORM AND COORDINATE ALL TECHNIQUES OF CONSTRUCTION. THIS APPROVAL IS SUBJECT TO THE PROVISIONS OF SECTION 107.4 OF THE INTERNATIONAL BUILDING CODE.

DATE: 4/14/2026 BY: Keri Jacobs

HOOVER RD

ASPHALT

FROLI ST.

CP 301

4' STEEL FENCE

Const. Limits

GRASS

Sta. 30+00.00 to Sta. 35+00.00
Construct 10' Concrete Sidewalk
6" (Reinf.)(4,986 S.F.)

℄ Proposed Trail

Sta. 30+00.00 to Sta. 35+00.00 Lt.
Grade area to drain with borrow
material from on-site.
See Cross Sections.

P.I.: 31+34.57
P.C.: 31+38.32

P.I.: 32+79.31
P.C.: 32+83.65

P.I.: 34+68.09
P.C.: 34+75.88

750'R

3040'R

780'R

300'R

70"

40"

30+00 31+00 32+00 33+00 34+00 35+00

Const. Limits Crystal Prairie Lake Park

Stockpile for Fill Material
Finished Ground Elevation 1335.00

Note: Site Grading will not cause additional adverse drainage impacts onto neighboring properties.

LEGEND
- Drainage Arrow
- 8" Conc. Sidewalk (Red)
- Tree Removal

SCALE IN FEET
20 0 20 40

PLAN: Lat. & Long.
PROFILE: Horiz. same as above
Vert.

0.16%

FG @ ℄ Proposed Trail

EG @ ℄ Proposed Trail

Master Plan FG @ ℄ Proposed Trail

	30+00	30+25	30+50	30+75	31+00	31+25	31+50	31+75	32+00	32+25	32+50	32+75	33+00	33+25	33+50	33+75	34+00	34+25	34+50	34+75	35+00
EG Elev.	1334.1	1333.8	1333.6	1333.6	1334.1	1334.4	1334.6	1335.0	1335.5	1335.7	1335.4	1335.1	1334.6	1334.2	1333.9	1334.0	1334.1	1334.1	1334.3	1334.5	1334.9
FG Elev.	1338.28	1338.32	1338.36	1338.40	1338.44	1338.48	1338.51	1338.55	1338.59	1338.63	1338.67	1338.71	1338.75	1338.79	1338.83	1338.86	1338.90	1338.94	1338.98	1339.02	1339.06

NO.	DATE:	REVISION	BY:	APP'D

DRAWN BY: JMD

APP'D BY: DWH

CFS ENGINEERS

DANIEL W. HOLLOWAY #15360 LICENSED PROFESSIONAL ENGINEER KANSAS 5-5-26

ADAM PROHASKA LICENSED Professional 31453 5-5-26 KANSAS PROFESSIONAL ENGINEER

CITY OF WICHITA

MULTI-USE TRAIL
CRYSTAL PRAIRIE LAKE PARK
PHASE I
482-11068 (R2000)(R5006), 472-2026-086248, 458-2025-085639
WICHITA, KS

PLAN & PROFILE
Sta. 30+00.00 to Sta. 35+00.00

DATE: Feb. 2026
SHEET: 09 of 104
PROJ.: 16-1006

J:\2016Proj\161006\2024 Trail\Ph 1\CADD\161006 Trail P&P.dwg 4/09/2026 - 2:12pm

STATE		Wichita-Sedgwick County Metropolitan Area Building and Construction Department	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS		REVIEWED FOR CODE COMPLIANCE	2026	10	104

482-11068

THIS DOCUMENT IS REVIEWED FOR CODE COMPLIANCE ONLY AND DOES NOT RELIEVE CONTRACTOR FROM COMPLIANCE WITH ALL REQUIREMENTS OF THE CODES OF THE MUNICIPAL CITY OF WICHITA OR SEDGWICK COUNTY. THE CONTRACTOR IS RESPONSIBLE FOR THE GENERAL CONFORMANCE OF THE CONSTRUCTION TO THE CODES. THE CONTRACTOR IS RESPONSIBLE FOR CONFORMING AND OPERATING ALL TECHNIQUES OF CONSTRUCTION. THIS APPROVAL IS SUBJECT TO THE PROVISIONS OF SECTIONS 107.4 OF THE INTERNATIONAL BUILDING CODE.

DATE: 4/14/2026 BY: Keri Jacobs

See Sht. 12 for Ent. Road plan and profile.

HOOVER RD

ASPHALT

45TH ST

Sawcut

Future 5' Sidewalk Connection

Const. Limits

Sta. 38+75 to Sta. 39+75
Install Wood Bollards (Domed) at 6' C-C Spacing (22 total)

Sta. 35+00.00 to Sta. 40+80.00 Lt.
Grade area to drain with borrow material from on-site.
See Cross Sections.

Sta. 38+30.00 to Sta. 38+50.00
Construct 10' Concrete Sidewalk 8" (Reinf.)(Red)(197 S.F.)

Sta. 39+70.52
Const. Wheelchair Ramp.(10' Wide) w/ Collapsible Bollard.

Sta. 40+66.50 Lt.
Const. Conc. Flume. Install Slope Protection (Aggregate) (4") (2.5 C.Y.). See Sht. No. 20.

Const. Limits

℄ Proposed Trail

PT: 36+70.28
PC: 36+79.29
PT: 38+35.67
PC: 39+23.28
PT: 39+69.76
PC: 40+31.94
PC: 40+93.83
PT: 40+78.76

Sta. 40+90.30
END PROJECT

35+00
36+00
37+00
38+00
39+00
40+00
41+00

300'R
310'R
175'R
R20'
R20'

Sta. 35+00.00 to Sta. 38+30.00
Construct 10' Concrete Sidewalk 6" (Reinf.)(3,304 S.F.)

Sta. 38+50.00 to Sta. 39+70.52
Construct 10' Concrete Sidewalk 6" (Reinf.)(1,211 S.F.)

Sta. 39+65.00, 5' Rt.
Install Collapsible Bollard. See Sht. No. 20 for details.

Sta. 40+20.85
Const. Wheelchair Ramp (10' Wide)

Sta. 40+31.94 to Sta. 40+87.70
Const. 10' Concrete Sidewalk 6" (Reinf.)(716 S.F.) and Conc. Curb and Gutter, Type 1. (54 L.F.) w/ 2' Taper at end to match pvmt.

Sta. 38+73.00
Remove 81 L.F. Ex. Fence (4' Woven Wire).

Crystal Prairie Lake Park

Sta. 40+01.11
Const. Wheelchair ramp in median (2 Total) (10' Wide).

Sta. 38+75 to Sta. 40+20
Remove 145 L.F. Ex. Fence (12' Chain Link).

CP -103-10300

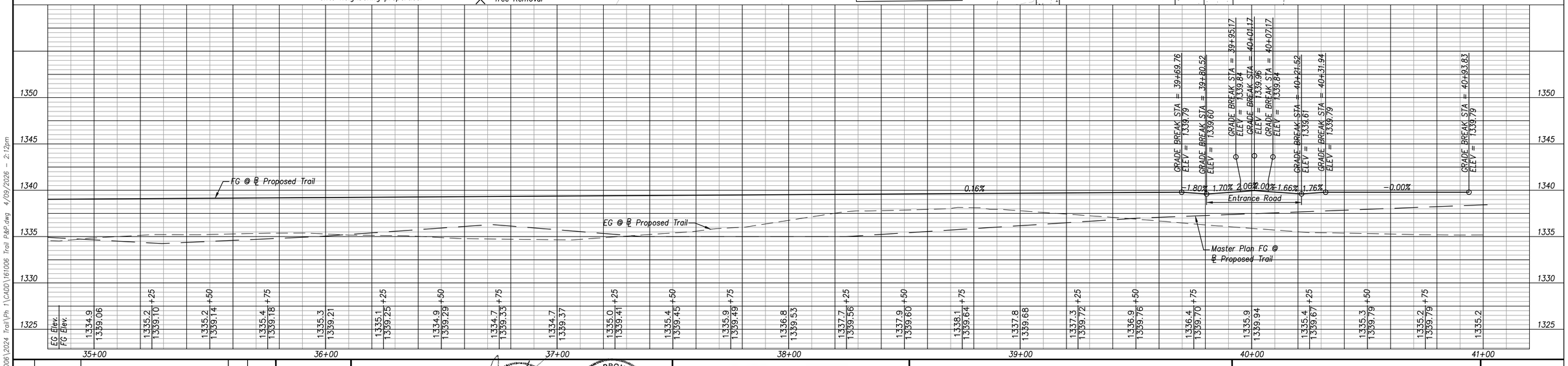
4' STEEL FENCE
12' CHAIN LINK FENCE
4" CONC FILLED STEEL PIPE
GRASS
SAN SAN
SS SS
W W
RAIL ROAD

LEGEND
- Drainage Arrow
- 8" Conc. Sidewalk (Red)
- 8" Conc. Pvmt.
- Tree Removal

Note: Site Grading will not cause additional adverse drainage impacts onto neighboring properties.

SCALE IN FEET
20 0 20 40

PLAN: Lat. & Long.
PROFILE: Horiz. same as above
Vert.



NO.	DATE:	REVISION	BY:	APP'D

DRAWN BY: JMD
APP'D BY: DWH

CFS ENGINEERS

DANIEL W. HOLLOWAY LICENSED #15360 5-5-26 KANSAS PROFESSIONAL ENGINEER

ADAM PROHASKA LICENSED 31453 5-5-26 KANSAS PROFESSIONAL ENGINEER

CITY OF WICHITA

MULTI-USE TRAIL
CRYSTAL PRAIRIE LAKE PARK
PHASE I
482-11068 (R2000)(R5006), 472-2026-086248, 458-2025-085639
WICHITA, KS

PLAN & PROFILE
Sta. 35+00.00 to Sta. 41+00.00

DATE: Feb. 2026
SHEET: 10 of 104
PROJ.: 16-1006

J:\2016Proj\161006\2024 Trail\Ph 1\CADD\161006 Trail P&P.dwg 4/09/2026 - 2:12pm

STATE		Wichita-Sedgwick County Metropolitan Area Building and Construction Department	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS		REVIEWED FOR CODE COMPLIANCE	2026	11	104

482-11068

THIS DOCUMENT IS REVIEWED FOR COMPLIANCE WITH THE CITY OF WICHITA BUILDING CODES AND THIS DOCUMENT DURING THE REVIEW PROCESS. THE REVIEW DOES NOT RELIEVE THE CONTRACTOR FROM COMPLYING WITH ALL REQUIREMENTS OF THE CODES OF THE CITY OF WICHITA OR OTHER APPLICABLE REGULATIONS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN ALL NECESSARY PERMITS AND INSPECTIONS BEFORE COMMENCEMENT OF THE WORK. THE CONTRACTOR IS RESPONSIBLE FOR CONFORMING AND COORDINATING ALL TECHNIQUES OF CONSTRUCTION. THIS APPROVAL IS SUBJECT TO THE PROVISIONS OF SECTION 107.4 OF THE INTERNATIONAL BUILDING CODE.

DATE: 4/14/2026 BY: Keri Jacobs

Sta. 51+19.62
Install 15"x28" Pipe SWS, (RCP) with 2 End Sections. Install Riprap (Light Stone) at each end. (5.6 S.Y.)

Sta. 51+42 Lt.
Remove and reinstall 30 L.F. of Exist. Fence. Lower grade in area to drain to Hoover Rd. ditch.

See Landscape Plan for disturbed area seeding.

Sta. 50+43.33
Remove exist. end section. Install 18"x10' Pipe, SWS (RCP) with Pipe, End Section. Install Riprap (Light Stone) (2.8 S.Y.).

See Sht. No. 13 for median layout. See Sht. No. for 28 for crossing details.

Sta. 51+70.00 to Sta. 51+96.67
Construct 10' Concrete Sidewalk 6" (Reinf.)(352 S.F.)

Sta. 52+06.67 to Sta. 52+26.67
Construct 10' Concrete Sidewalk 6" (Reinf.)(285 S.F.)

Sta. 51+96.67 Proposed Entrance
= Sta. 24+80.07 Proposed Trail

Note: Site Grading will not cause additional adverse drainage impacts onto neighboring properties.

PI: 50+00.00
BP: 50+00.00
PI: 50+20.00
PI: 50+59.31
PI: 51+02.07
PI: 51+57.69
50+00
51+00
52+00
24+00
PI: 50+10.00
R10.0'
R10.0'
R10.0'
R10.0'
20.0
35' Typ.

Sta. 50+10.00 to Sta. 50+47.33
Construct 10' Concrete Sidewalk 6" (Reinf.)(338 S.F.) with 10' transition to match exist. sidewalk.

Sta. 50+25.81
Construct Wheelchair Ramp (10' Wide)

Sta. 50+47.33
Construct Wheelchair Ramp (10' Wide)

Sta. 51+01.91
Construct Wheelchair Ramp (10' Wide)

Const. Limits

Sta. 51+12.17 to Sta. 51+50.00
Construct 10' Concrete Sidewalk 6" (Reinf.)(378 S.F.)

Sta. 51+50.00 to Sta. 51+70.00
Construct 10' Concrete Sidewalk 8" (Reinf.)(Red)(209 S.F.)

Sta. 51+41.59, 5.00' Rt.
Install Collapsible Bollard see Sht. No. 20 for details. Install Wood Bollards 1' from trail each side. (2 Total)

Sta. 51+41.59
Remove 20 L.F. Exist. Fence, install "H" Brace Set (2 Total) on each side and connect to exist. fence.

See Landscape Plans for improvements

KOLLMEYER ST
HOOVER RD
ASPHALT
18" RCP
GRASS
1340.5
1341
1336
1335
1334
1333
1335
1336

SCALE IN FEET
20 0 20 40

LEGEND
Drainage Arrow
8" Conc. Sidewalk (Red)

PLAN: Lat. & Long.
PROFILE: Horiz. same as above
Vert. 5 0

GRADE BREAK STA = 50+10.00 ELEV = 1336.76
GRADE BREAK STA = 50+20.00 ELEV = 1336.74
GRADE BREAK STA = 50+46.02 ELEV = 1336.22
GRADE BREAK STA = 50+59.31 ELEV = 1335.68
GRADE BREAK STA = 50+83.33 ELEV = 1336.35
GRADE BREAK STA = 51+02.67 ELEV = 1335.69
GRADE BREAK STA = 51+12.16 ELEV = 1336.40
GRADE BREAK STA = 51+22.14 ELEV = 1336.80
GRADE BREAK STA = 51+96.68 ELEV = 1337.47
GRADE BREAK STA = 52+06.68 ELEV = 1337.67
GRADE BREAK STA = 52+26.68 ELEV = 1337.27

1.3% -0.23% -2.00% -4.01% 2.78% -3.55% 1.00% 2.00% 1.17% 2.00% -2.00%

Proposed Pipe, Storm Sewer 18"
℄ In (N) = 1333.29'
Exist. ℄ In (N)/℄ Out (S) = 1333.18'

Hoover Rd.

Proposed Pipe, Storm Sewer 15"
℄ In (N) = 1334.20'
℄ Out (S) = 1334.00'

	+75	+25	+50	+75	+25	+50	+75	+25
FG Elev.	1336.6	1337.1	1334.7	1336.1	1335.8	1334.3	1334.5	1333.9	1333.5	1333.1
EG Elev.		1336.64	1335.06	1336.12	1335.76	1335.63	1336.92	1337.22	1337.54	1337.30
	50+00			51+00			52+00			

1355 1350 1345 1340 1335 1330 1325

J:\2016Proj\161006\2024 Trail\Ph 1\CADD\161006 Entrance P&P.dwg 4/09/2026 - 2:12pm

NO.	DATE:	REVISION	BY:	APP'D

DRAWN BY: JMD
APP'D BY: DWH

CFS ENGINEERS

DANIEL W. HOLLOWAY LICENSED #15360 11-5-26 KANSAS PROFESSIONAL ENGINEER

ADAM PROHASKA LICENSED Professional 31453 11-5-26 KANSAS PROFESSIONAL ENGINEER

CITY OF WICHITA

MULTI-USE TRAIL
CRYSTAL PRAIRIE LAKE PARK
PHASE I
482-11068 (R2000)(R5006), 472-2026-086248, 458-2025-085639
WICHITA, KS

PLAN & PROFILE
Kollmeyer Trail Connection
Sta. 50+00.00 to Sta. 52+40.00

DATE: Feb. 2026
SHEET: 11 of 104
PROJ.: 16-1006

STATE		Wichita-Sedgwick County Metropolitan Area Building and Construction Department	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS		REVIEWED FOR CODE COMPLIANCE	2026	12	104

482-11068

THIS SET OF CONSTRUCTION DOCUMENTS IS NOT APPROVED AND THIS DOCUMENT DURING THE REVIEW DO NOT RELEASE CONSTRUCTION UPON COMPLETION, WILL ALL REQUIREMENTS OF THE CODES AND ORDINANCES OF THE CITY OF WICHITA, KANSAS, AND COUNTY OF SEDGWICK, KANSAS, BE COMPLIED WITH. THE STANDARDS OF THE CODES DO NOT RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITY FOR COMPLIANCE WITH APPROPRIATE TECHNIQUES OF CONSTRUCTION AND SAFETY. THIS PLAN IS SUBJECT TO PROVISIONS OF SECTION 106 OF THE INTERNATIONAL BUILDING CODE.

DATE: 4/14/2026 BY: Keri Jacobs

Note: Site grading will not cause continual adverse drainage impacts on to neighboring properties.

Construct Ditch from Exist. Ditch to Pipe Culvert.

Clear Trees and Brush for sight distance. (100' along Hoover Rd. & 100' along entrance,)

Sta. 100+52.00. 55' Lt. Install 15"x100' Pipe, SWS (RCP) with End Section. Install Riprap (Light Stone) (2.8 S.Y.).

Sta. 100+13.20 to Sta. 101+62.21 Construct Concrete Pavement 8" (475 S.Y.) w/ Curb and Gutter and Grass Median.

Future 5' SW Connection

HOOVER RD

45TH ST

PC: 40+93.83

1340.12TC

PT: 40+78.76

1339.90TC

1339.46TC

1339.90TC

1339.95TC

1339.61TC Match Pvmt.

1340.32TC

1339.99TC Match Pvmt.

R10.0'

R20.0'

R25.0'

PC: 40+31.94 Monument Sign

BP: 99+00.00

99+00

100+00

101+00

40+00

⅝" REBAR W/UNREADABLE CAP (ORIGIN UNKNOWN)

⅝" REBAR NO CAP (ORIGIN UNKNOWN)

IPF – 1/2" REBAR W/ ALUMINUM CAP AGM TGA 05

IPF – 5/8" W/CAP BAUCHMAN CLS 58

PT: 39+69.76

PC: 39+23.26

PT: 38+95.61

39+00

℄ Proposed Trail (See Sht. No. 10)

Sta. 100+52.00, 45' Rt. Install End Section. with Riprap (Light Stone) (2.8 S.Y.).

Sta. 101+01.78 Proposed Entrance = Sta. 40+01.11 Proposed Trail

Sta. 101+62.21 to Sta. 103+17.79 Const. Concrete Pavement 6" (437 S.Y.)

Sta. 103+17.79 to Sta. 104+01.79 Const. Concrete Pavement 6" (1,409 S.Y.)

Const. Limits

℄ Proposed Entrance

102+00

103+00

104+00

Gate Operator (Key Pad)

Sta. 100+80.00 Install 30' Automatic Gate with safety loop in pvmt. and place operator in median. Install 2–¾" PVC Conduits under pvmt.

Sta. 101+08.64 to Sta. 103+07.79, 65' Rt. Construct 10' Conc. Sidewalk 6" (Reinf.) (2,084 S.F.)

Sta. 103+03.00, 55' Rt. Const. 8'x6' Conc. Pvmt. 6" (Reinf.)(5.3 S.Y.)

Sta. 103+07.79, 65' Rt. Construct Wheelchair Ramp (10' Wide) w/ Collapsible Bollard. Wood Bollard 1' from each side.

Sta. 103+17.79 to Sta. 103+41.79 Construct for Handicap Parking Spaces (2 total) w/Access Aisle.

Gate to be Installed by City.

Sta. 101+40 to Sta. 104+10 Install Wood Bollards (Domed) at 6' Spacing (150 total)

84.00

5'R (Typ)

10R (Typ)

1339.76TG

1340.43TG

1341.21TG

1340.83TP

1340.64TP

1340.14TP

1340.33TP

1339.56TG

10.0'

24.0'

36.0'

18.0'

155.00

6' (Typ.)

26.0'

See Sht. No. 29

10300 CP –103–

300 CP

12' CHAIN LINK FENCE

TIMBER LINE

GRASS

ASPHALT

CONC FILLED STEEL PIPE

TYPICAL DITCH SECTION

Exist. Ground

4:1

4'

4:1

Exist. Ground

LEGEND

- Drainage Arrow
- 8" Conc. Sidewalk (Red)
- 8" Conc. Pavement
- 6" Conc. Pavement
- Tree Removal
- TG Top of Gravel
- TP Top of Pavement
- TC Top of Curb

SCALE IN FEET

20 0 20 40

PLAN: Lat. & Long.

PROFILE: Horiz. same as above Vert.

5

0

45th St. (W)

Hoover Rd.

GRADE BREAK STA = 100+00.00 ELEV = 1336.66

GRADE BREAK STA = 100+13.09 ELEV = 1336.33

BVCS: 100+75.00 BVCE: 1338.86

HIGH PT STA: 102+46.51 HIGH PT ELEV: 1342.29 PVI STA: 101+75.00 PVI ELEV: 1342.86 K: 42.88 LVC: 200.00

EVCS: 102+75.00 EVCE: 1342.19

GRADE BREAK STA = 103+00.00 ELEV = 1342.03

Masterplan FG @ Proposed Entrance

GRADE BREAK STA = 104+01.79 ELEV = 1341.21

FG @ ℄ Proposed Entrance

-0.66%

-0.69%

-0.80%

2.00%

4.00%

-2.17%

6"

2"

1"

11.25"

10' Conc. Sidewalk Profile

Proposed Pipe, Storm Sewer 15" ℄ In (N) = 1335.30' ℄ Out (S) = 1335.15'

BVCS: 101+25.00 BVCE: 1340.26

HIGH PT STA: 102+36.54 HIGH PT ELEV: 1341.37 PVI STA: 102+00.00 PVI ELEV: 1341.76 K: 55.77 LVC: 150.00

EVCS: 102+75.00 EVCE: 1341.24

EG @ ℄ Proposed Entrance

	99+00	+25	100+00	+25	+50	+75	101+00	+25	+50	+75	102+00	+25	+50	+75	103+00	+25	+50	+75	104+00	+25	+50	+75	105+00
EG Elev.		1336.0		1335.6	1338.4	1335.7	1335.9	1336.3	1336.4	1336.3	1336.4	1337.3	1336.5	1335.5	1335.4	1335.2	1335.6	1336.0	1336.4	1336.4		1336.0	
FG Elev.		1336.2		1336.86	1337.86	1338.86	1339.78	1340.57	1341.20	1341.69	1342.04	1342.23	1342.29	1342.19	1342.03	1341.83	1341.63	1341.43	1341.23				
		1336.4		1336.66																			

1355 1350 1345 1340 1335 1330 1325

J:\2016Proj\161006\2024 Trail\Ph 1\CADD\161006 Entrance P&P.dwg 4/09/2026 – 2:13pm

NO.	DATE:	REVISION	BY:	APP'D

DRAWN BY: JMD

APP'D BY: DWH

CFS ENGINEERS

DANIEL W. HOLLOWAY 15360 KANSAS PROFESSIONAL ENGINEER 3-5-26

ADAM PROHASKA LICENSED 31453 KANSAS PROFESSIONAL ENGINEER

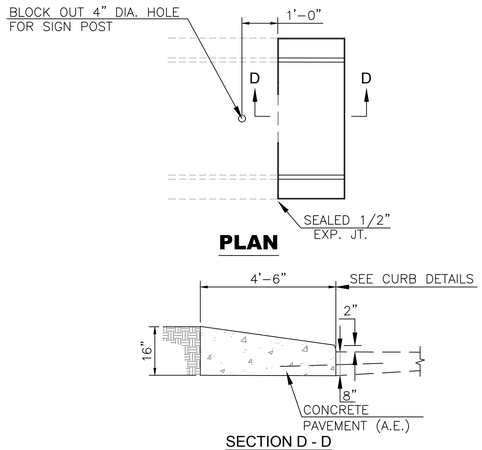
CITY OF WICHITA

MULTI-USE TRAIL
CRYSTAL PRAIRIE LAKE PARK
PHASE I
482-11068 (R2000)(R5006), 472-2026-086248, 458-2025-085639
WICHITA, KS

PLAN & PROFILE
Entrance
Sta. 100+00.00 to Sta. 104+50.00

DATE: Feb. 2026
SHEET: 12 of 104
PROJ.: 16–1006

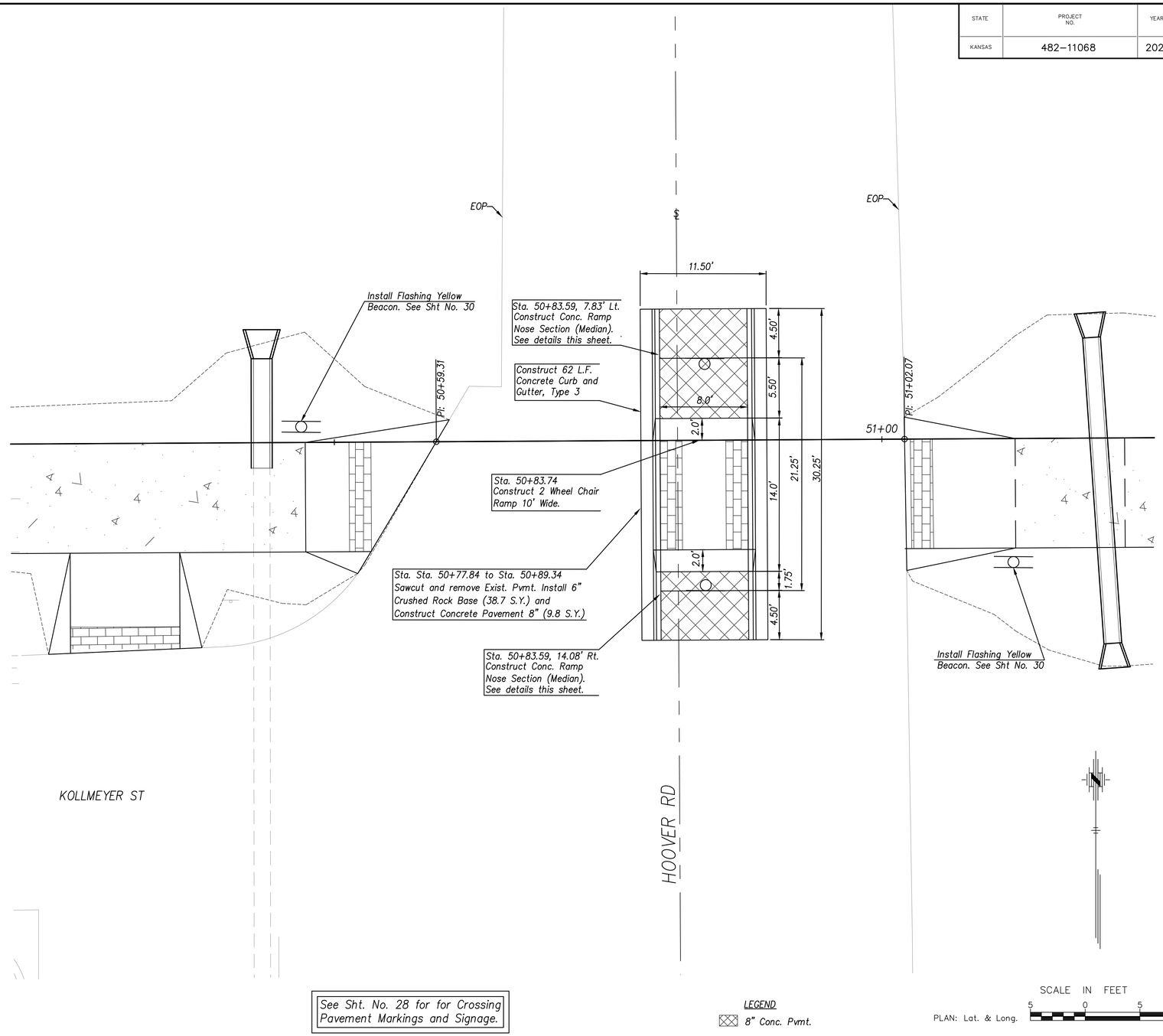
STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	482–11068	2026	13	104



RAMP NOSE DETAILS

NOTE:
PAVEMENT CLASS CONCRETE (AE) NEEDED TO COMPLETE THE MEDIAN NOSE SHALL BE SUBSIDIARY TO THE BID ITEM FOR COMBINED CURB AND GUTTER TYPE III.

* OMIT SEALED 1/2" EXPANSION JOINT WHEN SURFACE MATERIAL USED IN MEDIAN IS OTHER THAN CONCRETE.



See Sht. No. 28 for for Crossing Pavement Markings and Signage.

LEGEND
8" Conc. Pvmt.

SCALE IN FEET
PLAN: Lat. & Long. 5 0 5 10

NO.	DATE:	REVISION	BY:	APP'D

DRAWN BY: JMD
APP'D BY: DWH

CFS ENGINEERS

DANIEL W. HOLLOWAY — LICENSED — 15360 — 11-5-26 — KANSAS — PROFESSIONAL ENGINEER

ADAM PROHASKA — LICENSED — 31453 — 11-5-26 — KANSAS — PROFESSIONAL ENGINEER

CITY OF WICHITA

MULTI-USE TRAIL
CRYSTAL PRAIRIE LAKE PARK
PHASE I
482-11068 (R2000)(R5006), 472-2026-086248, 458-2025-085639
WICHITA, KS

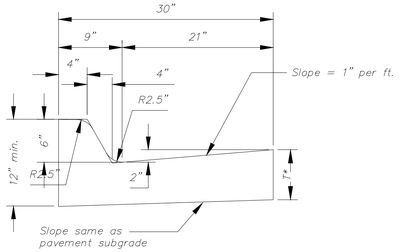
MEDIAN LAYOUT
Hoover Road Crossing

DATE: Feb. 2026
SHEET: 13 of 104
PROJ.: 16–1006

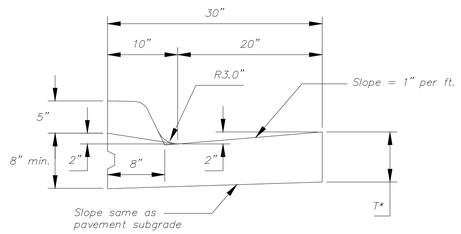
J:\2016Proj\161006\2024 Trail\Ph 1\CADD\161006 Median Layout.dwg 4/15/2026 – 1:24pm

Wichita-Sedgwick County
Metropolitan Area Building
and Construction Department
REVIEWED FOR CODE COMPLIANCE
CORRECTIONS OR COMMENTS MADE ON THESE DRAWINGS AND THIS DOCUMENT DURING THIS REVIEW DO NOT RELIEVE CONTRACTOR FROM COMPLYING WITH ALL REQUIREMENTS OF THE CODES OF 1996, MCKEE, THE CITY OF WICHITA OR SEDGWICK COUNTY. THE CONTRACTOR SHALL BE GENERAL STANDARD MACKLEMORE, AND ARE CONTRACTOR IS RESPONSIBLE FOR COMPLIANCE AND COORDINATING ALL TECHNIQUES OF CONSTRUCTION. THIS APPROVAL IS SUBJECT TO PROVISIONS OF SECTION 107.4 OF THE INTERNATIONAL BUILDING CODE.
DATE: 4/14/2026 BY: Keri Jacobs

TYPE 1
(Arterial curb)

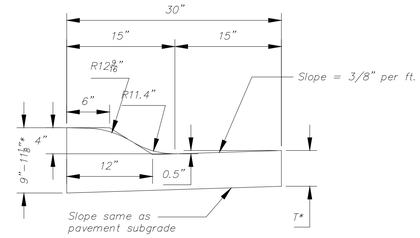


Combined Curb & Gutter (6")

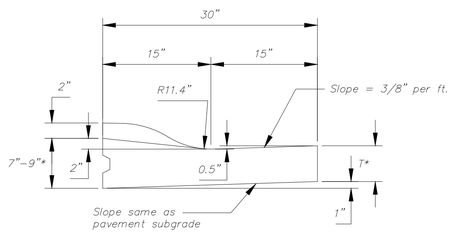


Combined Curb & Gutter (1 1/2")

TYPE 2
(Roll curb)

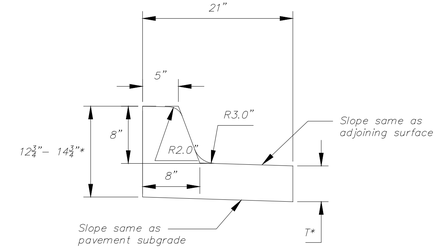


Combined Curb & Gutter (3 5/8")

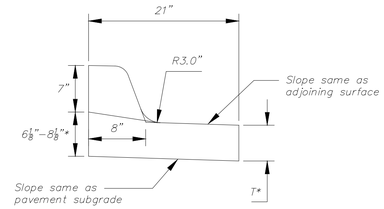


Combined Curb & Gutter (1 1/2")

TYPE 3
(Median curb)

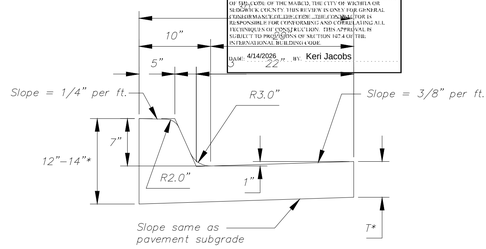


Combined Curb & Gutter (8")

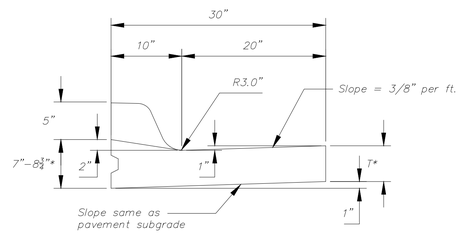


Combined Curb & Gutter (1 1/2")

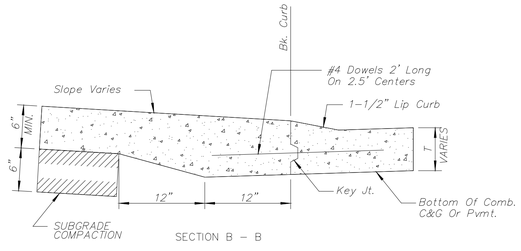
TYPE 4
(Residential curb)



Combined Curb & Gutter (6 5/8")

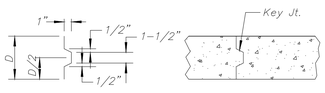


Combined Curb & Gutter (1 1/2")

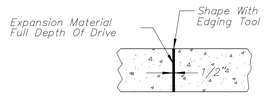


BACK OF CURB DETAIL

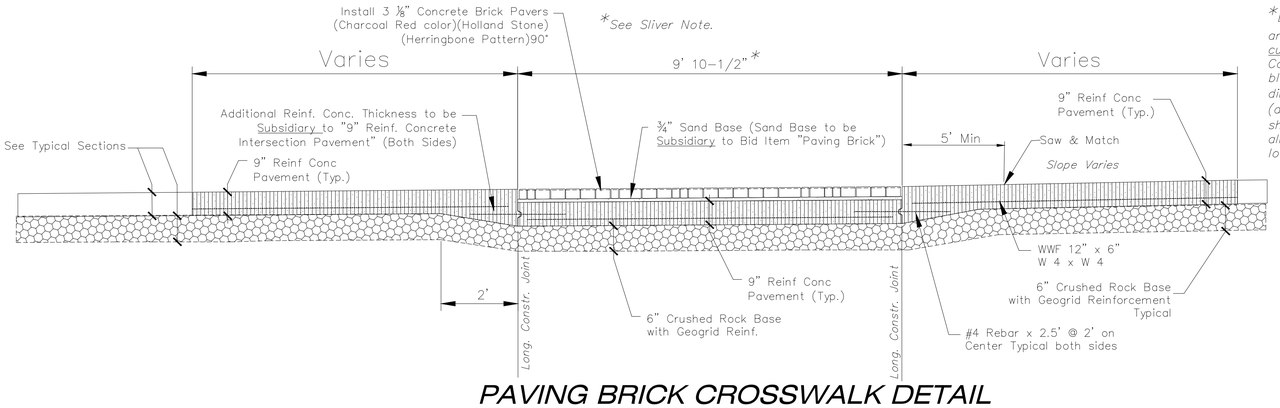
T* = Thickness of curb to adjust with pavement thickness



ALT. LONGITUDINAL CONSTRUCTION JOINT



EXPANSION JOINT (E.J.)



PAVING BRICK CROSSWALK DETAIL

*Brick Pavers to be installed in crosswalk and/or median locations shall be custom cut to match final concrete dimensions. Contractor shall construct crosswalk blockouts to match nominal paver width dimensions. Fill in with "brick slivers" (defined as pieces smaller than 1/2 of the shortest paver dimension) shall not be allowed, except at the end of crosswalk locations.

GENERAL NOTES

1. Expansion (isolation) joints shall be constructed a maximum of 300' apart and at all PIs, PCs, cul-de-sac quadrants, and ends of returns.

2. Contraction joints shall be constructed a minimum of 12' apart.

3. Joint sealer shall be required at all joints on arterial and industrial streets and at intersections on residential streets.

REVISED: OCTOBER 2015

CITY OF WICHITA
PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION

CURB & GUTTER & PAVING BRICK CROSSWALK DETAILS

CITY ENGINEER
GARY JANZEN, P.E.

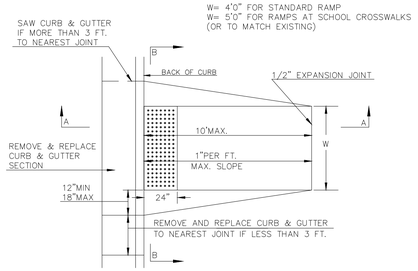
PROJECT NUMBER	OCA NUMBER	DATE
482-11068		

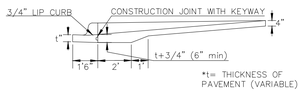
CITY ENGINEER'S OFFICE
CITY HALL - SEVENTH FLOOR
455 NORTH MAIN STREET
WICHITA, KANSAS 67202-1620
(316) 268-4501

SHEET
14 of 104

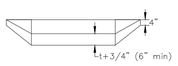
PV-101

STANDARD WHEELCHAIR RAMP CONSTRUCTION DETAIL FOR STREETS WITH COMBINED CURB & GUTTER (TYPE A)



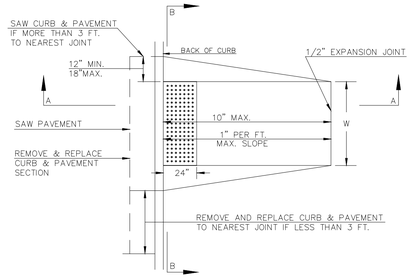


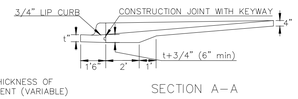
SECTION A–A



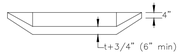
SECTION B–B

STANDARD WHEELCHAIR RAMP CONSTRUCTION DETAIL FOR CONCRETE STREETS WITH MONOLITHIC CURB (TYPE A)



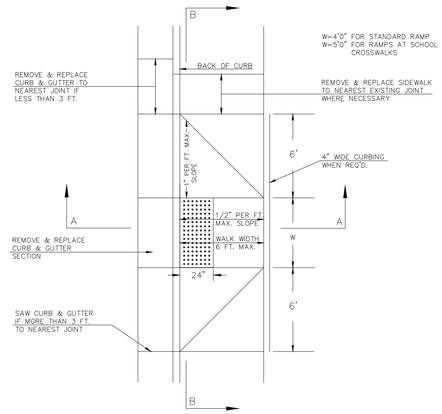


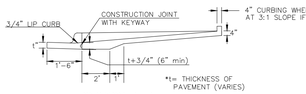
SECTION A–A



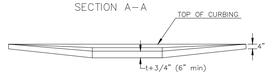
SECTION B–B

STANDARD WHEELCHAIR RAMP CONSTRUCTION DETAIL FOR STREETS WITH COMBINED CURB & GUTTER AND FULL WALK (TYPE B)



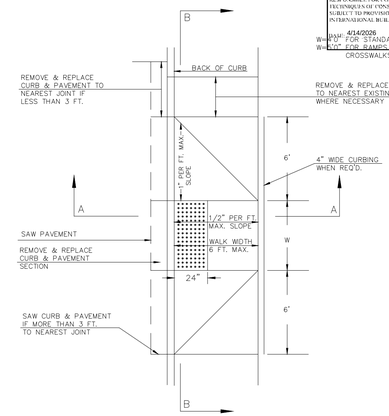


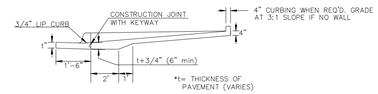
SECTION A–A



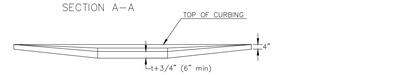
SECTION B–B

STANDARD WHEELCHAIR RAMP CONSTRUCTION DETAIL FOR STREETS WITH MONOLITHIC CURB AND FULL WALK (TYPE B)





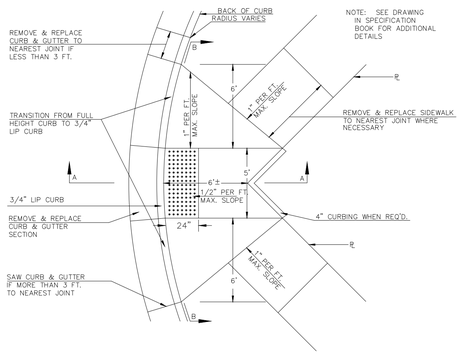
SECTION A–A

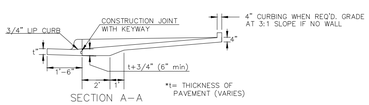


SECTION B–B

Wichita-Sedgwick County
Metropolitan Area Building
and Construction Department
REVIEWED FOR CODE COMPLIANCE
CORRECTIONS OR COMMENTS MADE ON THESE DRAWINGS AND THIS DOCUMENT DURING THIS REVIEW DO NOT RELIEVE CONSTRUCTION FROM COMPLIANCE WITH ALL REQUIREMENTS OF THE CODE OF THE MCBCD, THE CITY OF WICHITA OR SEDGWICK COUNTY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONSTRUCTION TO COMPLY WITH ALL APPLICABLE CODES AND STANDARDS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONFORMING AND COORDINATING ALL TECHNIQUES OF CONSTRUCTION. THIS APPROVAL IS SUBJECT TO THE PROVISIONS OF SECTION 107.4 OF THE INTERNATIONAL BUILDING CODE.
4/14/2026 Keri Jacobs
DWG. NO. _____

STANDARD WHEELCHAIR RAMP CONSTRUCTION DEAIL FOR STREET WITH COMBINED CURB AND GUTTER ON RADIUS WITH 6'± FROM BACK OF CURB TO PROPERTY CORNER (TYPE C)



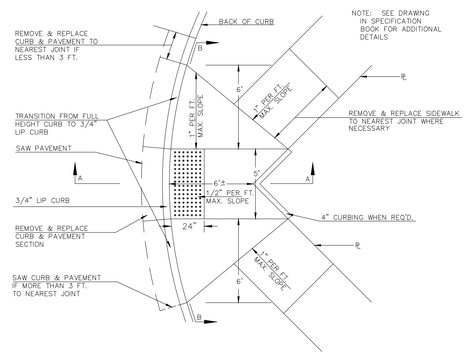


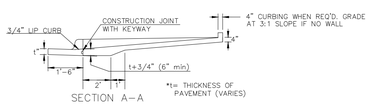
SECTION A–A



SECTION B–B

STANDARD WHEELCHAIR RAMP CONSTRUCTION DETAIL FOR STREET WITH MONOLITHIC CURB ON RADIUS WITH 6'± FROM BACK OF CURB TO PROPERTY CORNER (TYPE C)



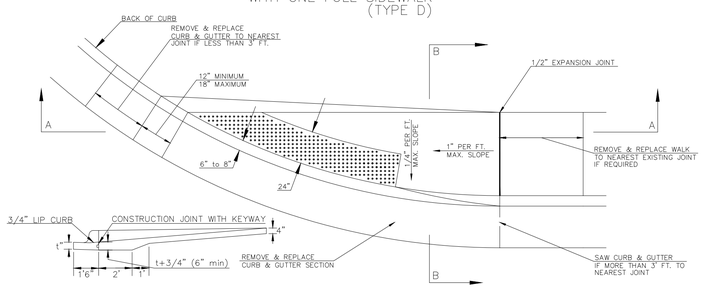


SECTION A–A



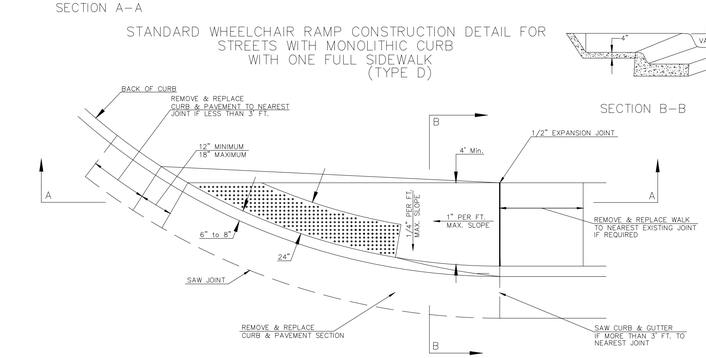
SECTION B–B

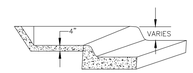
STANDARD WHEELCHAIR RAMP CONSTRUCTION DETAIL FOR STREETS WITH COMBINED CURB & GUTTER WITH ONE FULL SIDEWALK (TYPE D)



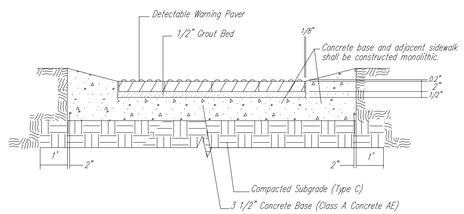
SECTION A–A

STANDARD WHEELCHAIR RAMP CONSTRUCTION DETAIL FOR STREETS WITH MONOLITHIC CURB WITH ONE FULL SIDEWALK (TYPE D)





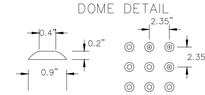
SECTION B–B



TYPICAL SECTION DETECTABLE WARNING PAVER
SECTION A–A

NOTE: HANOVER DETECTABLE WARNING PAVERS (OR AN APPROVED ALTERNATE) SHALL BE USED IN ALL WHEELCHAIR RAMPS. THE 11 3/4" "RED 15" PAVER SHALL BE USED IN ALL APPLICATIONS.
HANOVER ARCHITECTURAL PRODUCTS
240 BENDER ROAD
HANOVER, PA 17331
1-717-637-0500
www.hanoverpavers.com

DOME DETAIL



CITY OF WICHITA
PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION

WHEELCHAIR RAMP DETAILS WITH DETECTABLE WARNING

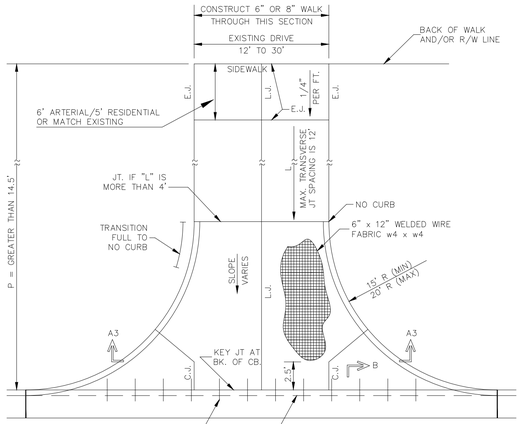
CITY ENGINEER
GARY JANZEN, P.E.

PROJECT NUMBER	OCA NUMBER	DATE
482-11068		*08/2013*

CITY ENGINEER'S OFFICE
CITY HALL - SEVENTH FLOOR
455 NORTH MAIN STREET
WICHITA, KANSAS 67202-1620
(316) 268-4501

SHEET
15 of 104

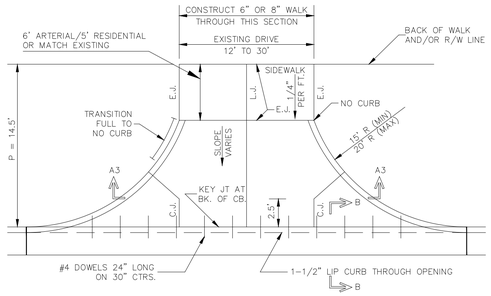
PV-110

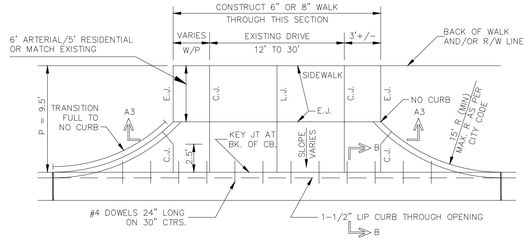


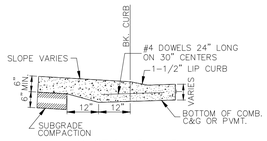


SECTION A3 – A3

FULL RADIUS DRIVES (ARTERIAL/COLLECTOR DRIVEWAY)

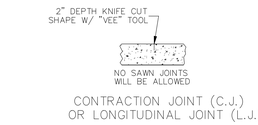






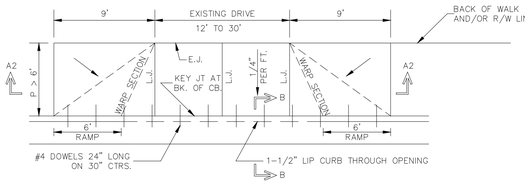
SECTION B – B

ALT. LONGITUDINAL CONSTRUCTION JOINT



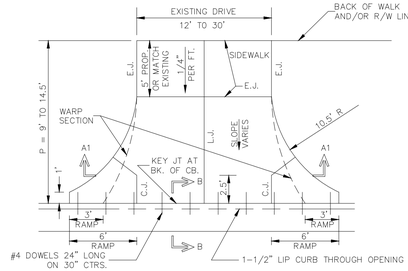
CONTRACTION JOINT (C.J.) OR LONGITUDINAL JOINT (L.J.)

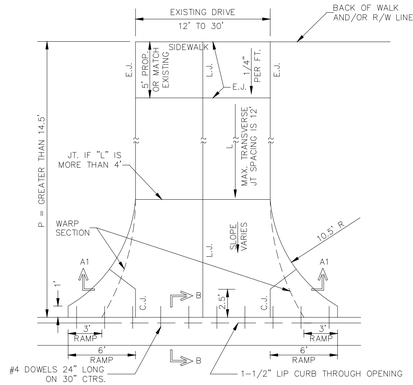
BACK OF CURB DETAIL

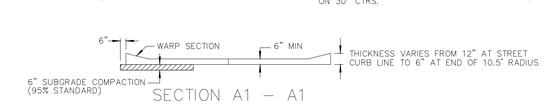


SECTION A2 – A2

FULL RAMP DRIVES (P = 4.0' & 6.5')







SECTION A1 – A1

RADIUS RAMP DRIVES (RESIDENTIAL DRIVEWAY)

GENERAL NOTES

1. DRIVEWAY CONSTRUCTION DETAILED ON THIS SHEET IS FOR USE WITH FULL HEIGHT STREET CURBS AND IN AREAS WITHOUT FULL WALK CONSTRUCTION IN THE PARKING. SEE OTHER DETAIL SHEETS FOR DRIVEWAY CONSTRUCTION WITH ROLL CURB AND/OR FULL WALK.
2. ONE LONGITUDINAL JOINT SHALL BE CONSTRUCTED ALONG THE CENTERLINE OF DRIVES HAVING A WIDTH DIMENSION OF 24' OR LESS. TWO LONGITUDINAL JOINTS SHALL BE CONSTRUCTED WITH EQUAL SPACINGS NOT TO EXCEED 10' FOR DRIVES WITH A WIDTH DIMENSION GREATER THAN 24'.
3. DRIVEWAY WIDTH DENOTED AS WIDTH ON THE DETAIL DRAWINGS SHALL BE A MINIMUM OF 12' AND A MAXIMUM OF 30'. THE MAXIMUM OPENING FOR RADIUS TYPE DRIVES WITH CURBS THROUGH THE RADIUS SHALL NOT EXCEED 52' AT THE STREET CURB LINE.
4. CONTRACTION JOINT SPACING IN THE DRIVEWAY WALK SECTION SHALL BE A MINIMUM OF 3' AND A MAXIMUM OF 6' AND ARE TO BE EQUALLY SPACED WITHIN THIS RANGE. WALK SECTION SHALL BE CONSTRUCTED TO THE SAME THICKNESS AS THE DRIVEWAY.
5. ADDITIONAL THICKNESS OF DRIVE AS INDICATED IN THE DRAWINGS WILL NOT BE PAID FOR DIRECTLY AND THIS COST SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE DRIVEWAY CONSTRUCTION.
6. ONE HALF INCH EXPANSION JOINTS SHALL BE INSTALLED WHEREVER DRIVE CONSTRUCTION ABUTS SIDEWALK. ONE HALF INCH EXPANSION JOINTS SHALL ALSO BE INSTALLED ALONG THE PROPERTY LINE AND/OR BACK OF WALK LINE WHEN DRIVE CONSTRUCTION ALONG THIS LINE ABUTS CONCRETE PARKING LOTS OR CONCRETE DRIVE EXTENSION.
7. DRIVEWAYS ONLY ON RESIDENTIAL PROPERTIES ONLY CAN BE CONSTRUCTED WITH 6" IN THICKNESS AND CAN BE WITHOUT REINFORCEMENT.
8. ALL DRIVEWAYS TO NONRESIDENTIAL PROPERTY SHALL BE A MINIMUM OF 8" IN THICKNESS AND SHALL HAVE REINFORCEMENT WITH 6"x12", W4xW4.

Wichita-Sedgwick County
Metropolitan Area Building
and Construction Department

REVIEWED FOR CODE COMPLIANCE

CORRECTIONS OR COMMENTS MADE ON THESE DRAWINGS AND THIS DOCUMENT DURING 1/2DA REVIEW DO NOT RELIEVE CONTRACTOR FROM COMPLIANCE WITH ALL REQUIREMENTS OF THE CODES. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ASSURE THAT ALL CONSTRUCTION COMPLIES WITH ALL APPLICABLE CODES. THIS REVIEW DOES NOT INCLUDE REVIEW OF STRUCTURAL DESIGN, SYSTEMS, OR EQUIPMENT. THE CONTRACTOR IS RESPONSIBLE FOR THE CONSTRUCTION OF THIS PROJECT IN ACCORDANCE WITH ALL TECHNIQUES OF CONSTRUCTION REQUIRED BY CODE. THIS APPROVAL IS SUBJECT TO THE PROVISIONS OF SECTION 104.4 OF THE INTERNATIONAL BUILDING CODE.

DATE: 4/14/2026 BY: Keri Jacobs

REVISED: NOVEMBER 2015

CITY OF WICHITA
PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION

STANDARD DRIVE ENTRANCES FULL HEIGHT CURB

CITY ENGINEER
GARY JANZEN, P.E.

PROJECT NUMBER	OCA NUMBER	DATE
482-11068		

CITY ENGINEER'S OFFICE
CITY HALL - SEVENTH FLOOR
455 NORTH MAIN STREET
WICHITA, KANSAS 67202-1620
(316) 268-4501

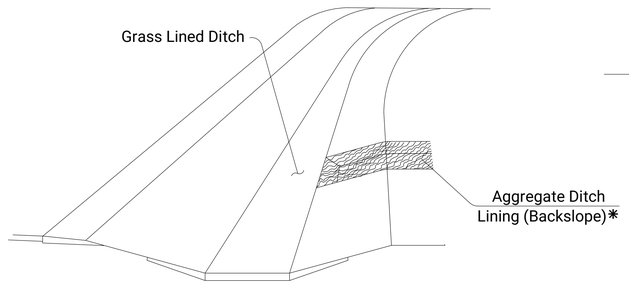
SHEET
16 of 104

PV-126

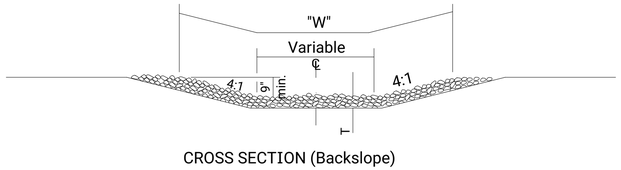
STATE		Wichita-Sedgwick County Metropolitan Area Building and Construction Department	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS		REVISED FOR CODE COMPLIANCE	2026	17	104

CORRECTIONS OR COMMENTS MADE ON THESE DRAWINGS AND THIS DOCUMENT DURING THE REVIEW DO NOT RELIEVE CONTRACTOR FROM COMPLYING WITH ALL REQUIREMENTS OF THE CODES OF THE MUNICIPAL THE CITY OF WICHITA OR SEDGWICK COUNTY AS ADOPTED BY THE BOARD OF COUNTY COMMISSIONERS. CONTRACTOR IS RESPONSIBLE FOR CORRELATING ALL DRAWINGS AND SPECIFICATIONS WITH ALL APPROVALS IN PUBLIC AND PROVISIONS OF SECTION 107.4 OF THE STANDARD SPECIFICATIONS.

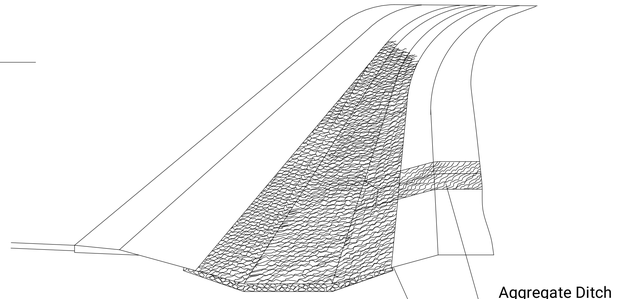
01/07/2026 Rod Bowers



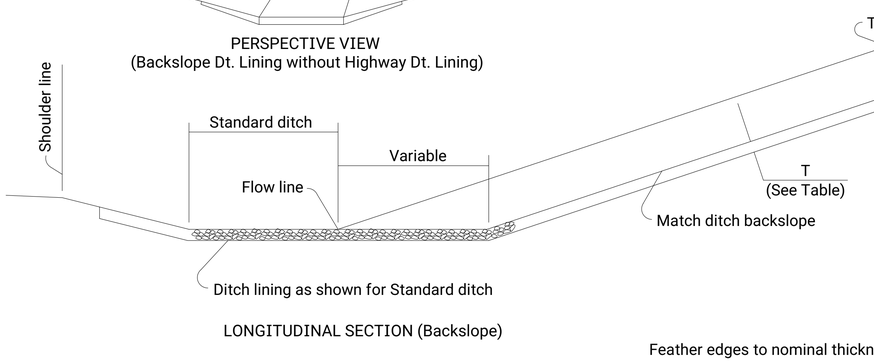
PERSPECTIVE VIEW
(Backslope Dt. Lining without Highway Dt. Lining)



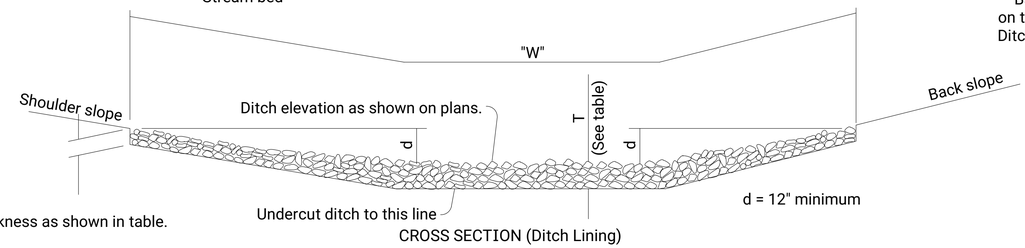
CROSS SECTION (Backslope)



PERSPECTIVE VIEW



LONGITUDINAL SECTION (Backslope)



Feather edges to nominal thickness as shown in table.

CROSS SECTION (Ditch Lining)

GENERAL NOTE

All work and materials required for this construction shall be paid for by the ton of "Aggregate Ditch Lining (D_{50})".

Dumped aggregate shall be spread in reasonable conformity with the ditch section as shown and as directed by the Engineer.

Aggregate Ditch Lining shall be measured and paid for by the ton in the vehicle at the location designated by the Engineer and shall be full compensation for excavation for undercutting, furnishing, hauling, placing and maintaining the material as specified to complete the work.

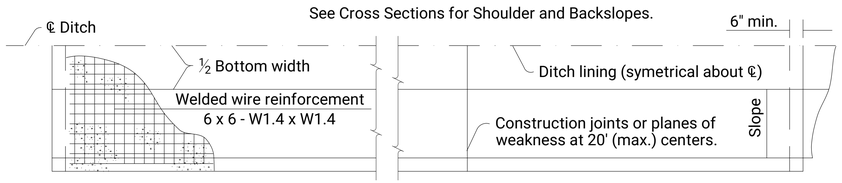
The weight of the aggregate is based on a standard density of 120 PCF. When the standard density of the material is more or less than 120 PCF, the thickness may vary correspondingly.

Backslope aggregate ditch lining, constructed as indicated on this sheet, shall be paid for by the ton of "Aggregate Ditch Lining (D_{50})."

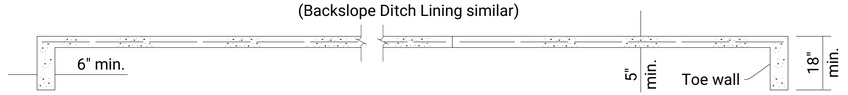
			QUANTITIES FOR TYPICAL 10' DITCH with 6:1 shoulder slope & 4:1 backslope			
D_{50}	T		Approx. Excavation per Station (cu.yd.)			
			d = 1.0	d = 2.0	d = 3.0	d = 4.0
◔ 4"	12"	8"	68	99	130	161
6"	18"	12"	102	148	195	241

Note: Quantities provided for information only.
◔ Aggregate larger than 4 inches (D_{50}) should not be used within the clear zone.

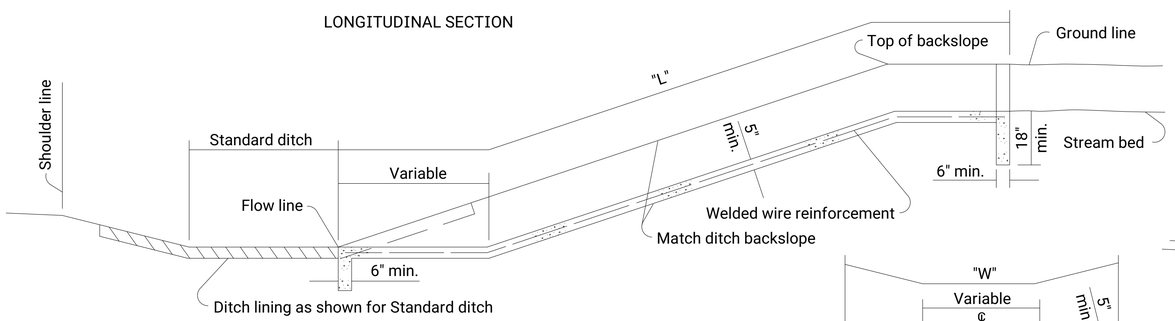
AGGREGATE DITCH LINING (D_{50})



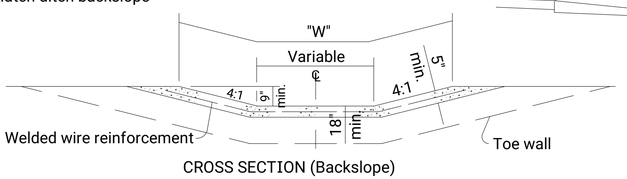
HALF PLAN
(Backslope Ditch Lining similar)



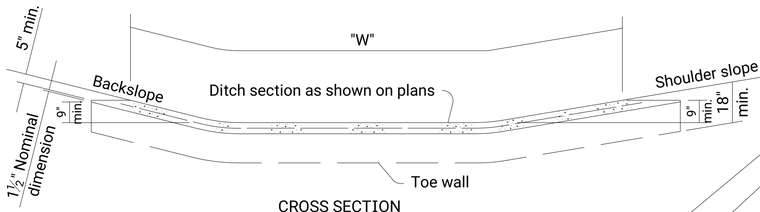
LONGITUDINAL SECTION



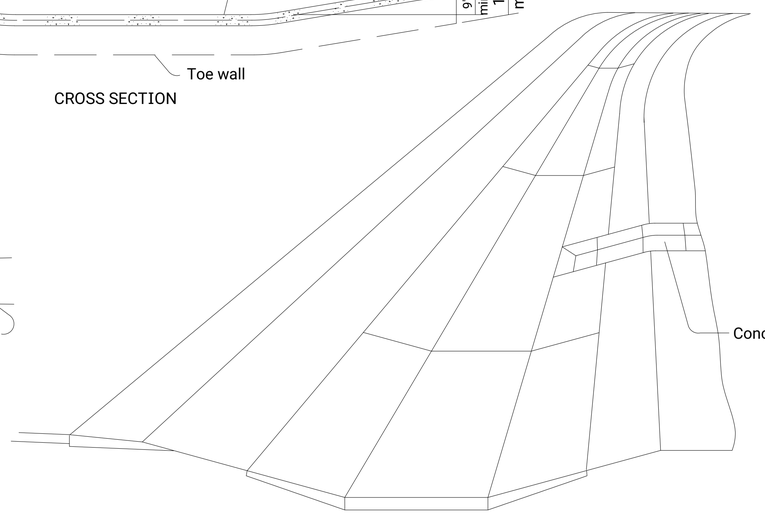
LONGITUDINAL SECTION (Backslope)



CROSS SECTION (Backslope)



CROSS SECTION



PERSPECTIVE VIEW

GENERAL NOTE

Concrete Grade 3.0 shall be used in Concrete Ditch Lining.

Welded wire reinforcement shall be of the electrically welded square mesh type with No. W1.4 wires spaced at 6" ctrs. each way.

Reinforcement as shown is included in the unit price bid for "Concrete Ditch Lining".

Measurements of Concrete Ditch Lining shall be in sq. yds. of outside surface area. Add 1'-6" times "W" for each toewall.

The exact location and dimensions may be adjusted, if required, by the Engineer at the time of construction.

Longitudinal construction joints may be constructed at the Contractor's option.

Welded wire can be substituted with macro fiber reinforcement. See Standard Specifications for macro fiber and application rate requirements

NO.	DATE	REVISIONS	BY	APP'D
10	03-27-18	Added Aggregate Size in Clear Zone Guidance	A.L.R.	T.T.R.
09	08-01-12	Revised General Note	S.W.K.	J.O.B.
08	03-20-08	Rev. agg. edge thickness and quant.	S.W.K.	J.O.B.

KANSAS DEPARTMENT OF TRANSPORTATION

DITCH LINING

RD502

FHWA APPROVAL	06-19-18	APP'D.	Scott W. King
DESIGNED	DETAILED	QUANTITIES	TRACED
DESIGN CK.	DETAIL CK.	QUAN.CK.	TRACE CK.

CONCRETE DITCH LINING

STATE		SHEET NO.	TOTAL SHEETS
KANSAS		18	104

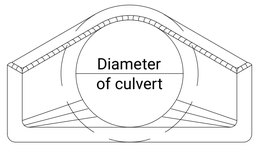
Wichita-Sedgwick County Metropolitan Area Building and Construction Department

REVIEWED FOR CODE COMPLIANCE

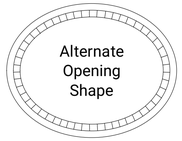
CORRECTIONS OR COMMENTS MADE ON THESE DRAWINGS AND THIS DOCUMENT DURING LDA REVIEW DO NOT RELIEVE CONTRACTOR FROM COMPLIANCE WITH ALL REQUIREMENTS OF THE CODES OF THE MUNICIPAL JURISDICTION OF THE CITY OF WICHITA OR SEDGWICK COUNTY. THE CONTRACTOR IS RESPONSIBLE FOR CONFORMING AND OPERATING ALL TECHNIQUES OF CONSTRUCTION. THIS APPROVAL IS SUBJECT TO THE PROVISIONS OF SECTION 107.4 OF THE INTERNATIONAL BUILDING CODE.

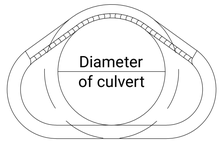
DATE: 4/14/2026 BY: Keri Jacobs

Note to Designer: KDOT Pipe Policy provides guidance in identifying the prohibited and/or restricted uses of CSP, ACSP, PEP, PVCP, CAP & RCP. Provide end sections of the same type and coating as the pipe. Exceptions to this are noted in the Standard Specifications. Refer to the KDOT Design Manual, Volume I (Part C), Road Section, "Elements of Drainage & Culvert Design" for structural pipe design information which includes: corrugations, sizes, gauges, maximum/ minimum fill heights and classes of pipe.



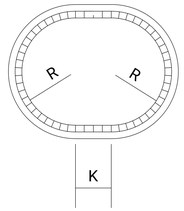
END ELEVATION (TYPE I)



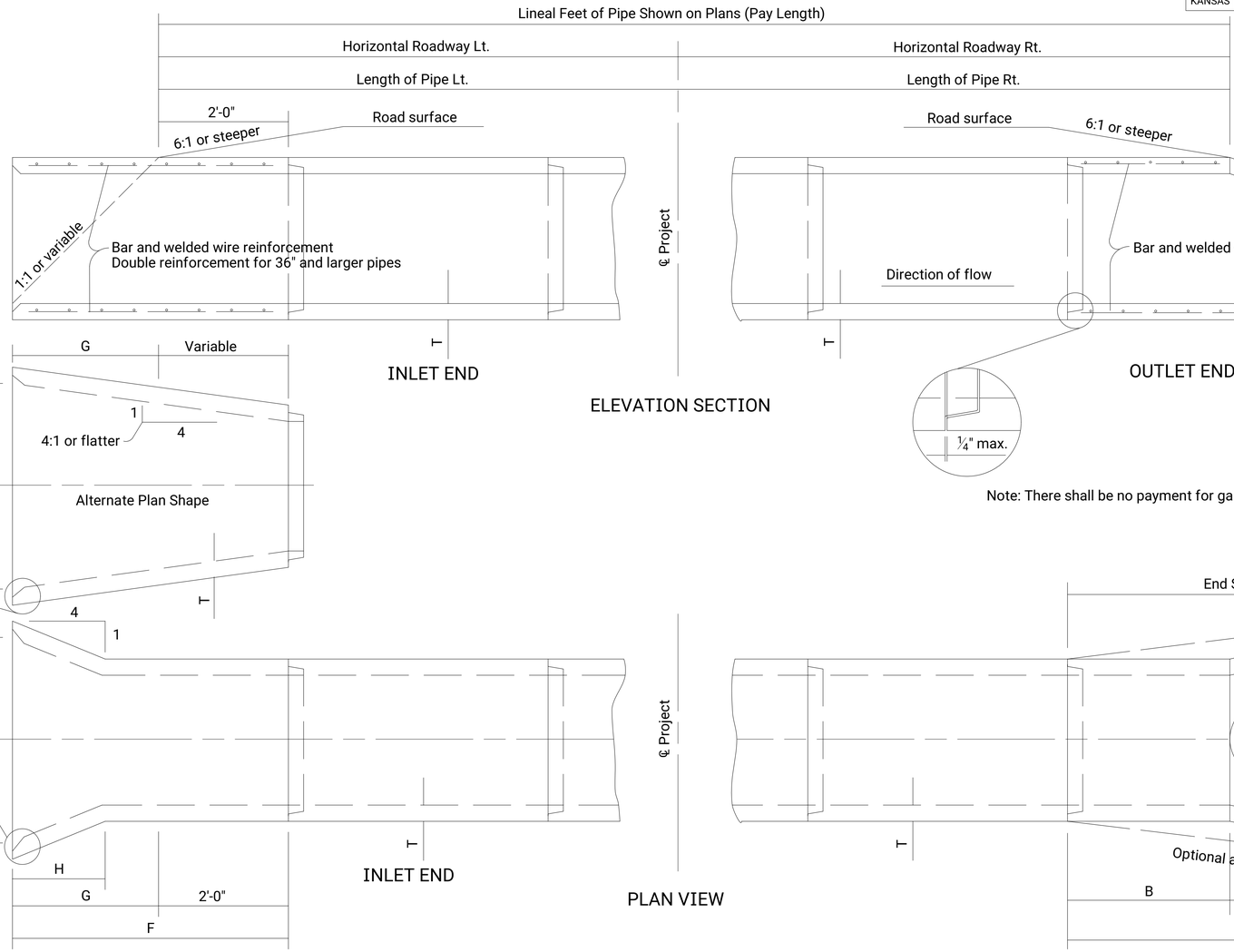


SECTION A-A

Showing rounding of inside edge of end section.



END ELEVATION (TYPE III)



Note: There shall be no payment for gain in length due to joint fit tolerance.

Transition to round pipe.

Paid for as separate item of End Section, except when structures shall bid as alternates. In that case End Sections shall be subsidiary to bid item. "Drainage Structure No. ".

Included in pay length of pipe.

Minimum waterway area is calculated at the inside of the bevel.

END SECTION (TYPE I) NOMINAL DIMENSIONS

Diam.	A	B	C	D	E	R_I	Slope	T
12"	6'-0 7/8"	4'-0 7/8"	2'-0"	2'-0"	4"	9	3:1	2"
15"	6'-1"	3'-10"	2'-3"	2'-6"	6"	11	3:1	2 1/4"
18"	6'-1"	3'-10"	2'-3"	3'-0"	9"	12	3:1	2 1/2"
24"	6'-1 1/2"	2'-6"	3'-7 1/2"	4'-0"	9 1/2"	14	3:1	3"
30"	6'-1 3/4"	1'-7 3/4"	4'-6"	5'-0"	1'-0"	15	3:1	3 1/2"
36"	8'-1 3/4"	2'-10 3/4"	5'-3"	6'-0"	1'-3"	20	3:1	4"
42"	8'-2"	2'-11"	5'-3"	6'-6"	1'-9"	22	3:1	4 1/2"
48"	8'-2"	2'-2"	6'-0"	7'-0"	2'-0"	22	3:1	5"
54"	8'-2 1/4"	2'-9 1/4"	5'-5"	7'-6"	2'-3"	24	2.4:1	5 1/2"
60"	8'-3"	3'-3"	5'-0"	8'-0"	2'-11"	24	21	6"
72"	8'-3"	1'-9"	6'-6"	9'-0"	3'-0"	24	1.86:1	7"
84"	9'-3 1/2"	1'-9"	7'-6 1/2"	10-0"	3'-0"	24	1.6:1	8"

SIDE TAPERED INLET SECTION (TYPE III)-NOMINAL DIMENSIONS

Diam.	Min. W.W. Area Sq. Ft.	F	G	H	I	J	K	R	T
24"	4.5	4'-3"	2'-3"	1'-5 1/8"	2'-8"	1 1/2"	8"	1'-0"	3"
30"	7.0	4'-9 1/2"	2'-9 1/2"	1'-9 1/2"	3'-4"	2"	10"	1'-3"	3 1/2"
36"	10.1	5'-4"	3'-4"	2'-1 1/2"	4'-0"	2"	1'-0"	1'-6"	4"
42"	13.7	5'-10 1/2"	3'-10 1/2"	2'-5 7/8"	4'-8"	2 1/2"	1'-2"	1'-9"	4 1/2"
48"	17.9	6'-5"	4'-5"	2'-10 1/8"	5'-4"	3"	1'-4"	2'-0"	5"
54"	22.7	6'-11 1/2"	4'-11 1/2"	3'-2 1/2"	6'-0"	3 1/2"	1'-6"	2'-3"	5 1/2"
60"	28.0	7'-6"	5'-6"	3'-6 7/8"	6'-8"	4"	1'-8"	2'-6"	6"
72"	40.3	8'-7"	6'-7"	4'-3 5/8"	8'-0"	5"	2'-0"	3'-0"	7"
84"	54.8	9'-8"	7'-8"	5'-0 3/8"	9'-4"	6"	2'-4"	3'-6"	8"

Dimensions for alternate shapes shall be equal to or greater than those shown in the table, unless otherwise shown.

NO.	DATE	REVISIONS	BY	APP'D
02	04-18-08	Added ref. to KDOT Pipe Policy	S.W.K.	J.O.B.
01	04-05-05	Revised reinforcement callout	S.W.K.	J.O.B.

KANSAS DEPARTMENT OF TRANSPORTATION

CONCRETE END SECTIONS FOR CONCRETE PIPES TYPE I & SIDE TAPERED INLET SECTION (TYPE III)

RD662

FHWA APPROVAL	06-27-08	APP'D.	James O. Brewer
DESIGNED	DETAILED	QUANTITIES	TRACED
DESIGN CK.	DETAIL CK.	QUAN.CK.	TRACE CK.

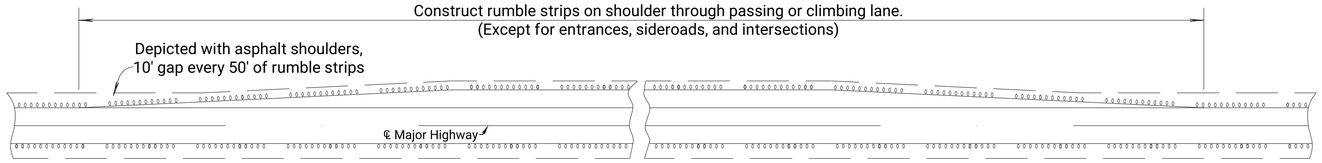
Sh. No. 18

Drawn By : $$USERNAME$$ Plotted : $$$$$$$YTIME$$$$$$$
File : $$$$$$$$$$$$$$$DGNPEC$$$$$$$$$$$$$$$

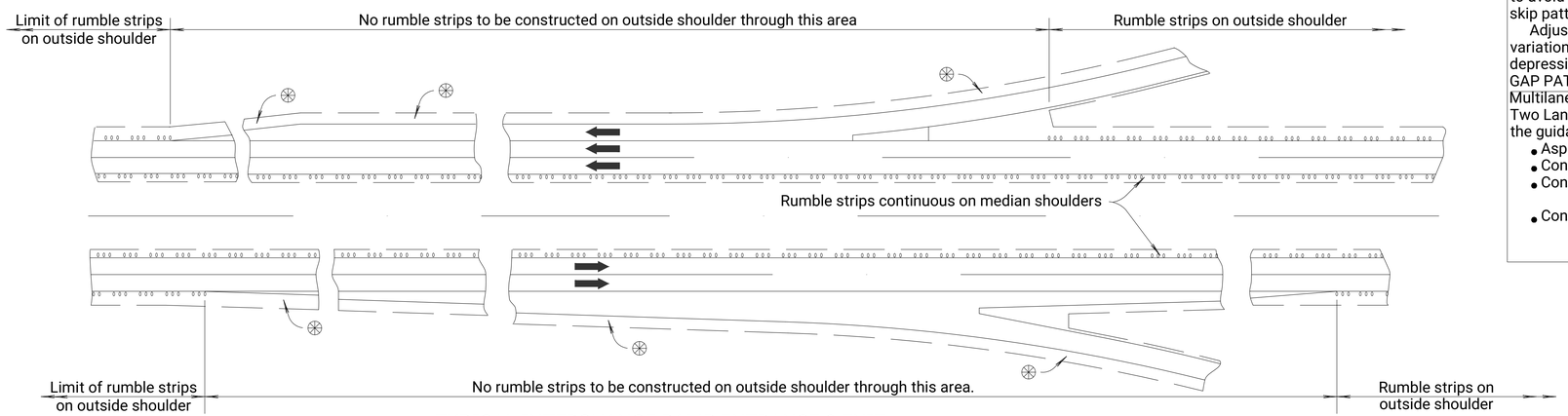
Note to Designer: Construct rumble strips on high speed and/or high traffic volume ramps on directional type interchanges.
Include this KDOT Standard Drawing when rumble strips are part of the project.

STATE		SHEET NO.	TOTAL SHEETS
KANSAS		19	104

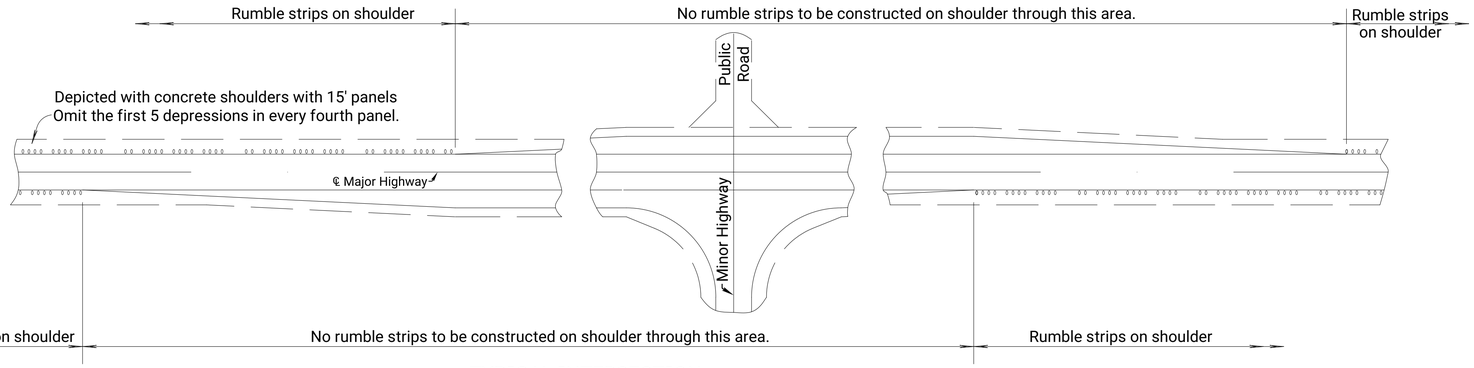
Wichita-Sedgwick County Metropolitan Area Building and Construction Department
REVIEWED FOR CODE COMPLIANCE 2021
CORRECTIONS OR COMMENTS MADE ON THESE DRAWINGS AND THIS DOCUMENT DURING THIS REVIEW DO NOT RELIEVE THE APPLICANT FROM COMPLYING WITH ALL APPLICABLE CODES OF SEDGWICK COUNTY. THIS REVIEW IS ONLY FOR GENERAL CONFORMANCE OF THE CODE. THE CONTRACTOR IS RESPONSIBLE FOR CONFORMING AND CORRELATING ALL TECHNIQUES OF CONSTRUCTION. THIS APPROVAL IS SUBJECT TO PROVISIONS OF SECTION 107.4 OF THE INTERNATIONAL BUILDING CODE.
DATE: 07/08/2022 BY: Kelly Arnhold



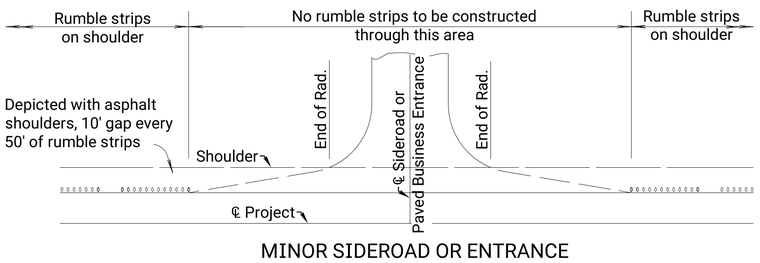
TYPICAL PASSING OR CLIMBING LANES



TYPICAL INTERCHANGE RAMP ENTRANCE & EXIT

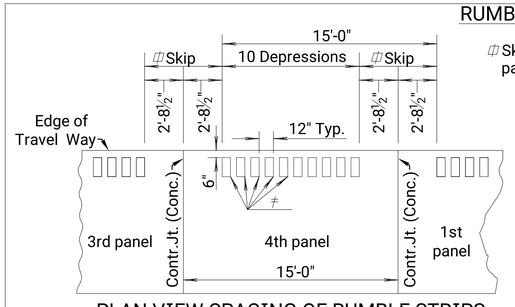


TYPICAL INTERSECTION



MINOR SIDEROAD OR ENTRANCE

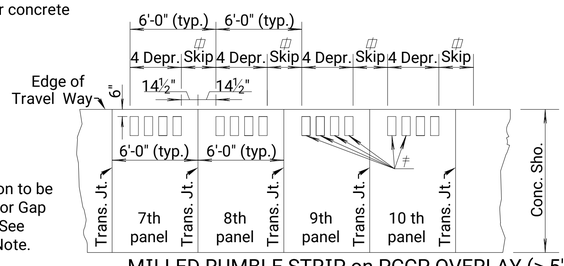
RUMBLE STRIP LAYOUTS



PLAN VIEW-SPACING OF RUMBLE STRIPS
#See General Note for gap information for bicyclists accomodations.

Skip pattern for concrete pavement.

Depression to be omitted for Gap Pattern. See General Note.



MILLED RUMBLE STRIP on PCCP OVERLAY (≥ 5")
#See General Note for gap information for bicyclists accomodations.

GENERAL NOTES:

All work and materials required for construction of rumble strips in asphalt or concrete pavement are paid under the bid item "Rumble Strips (Milled)".

See typical sections for other surfacing and shoulder details.

Do not omit rumble strip installations through field entrances, house entrances, or low volume, unpaved business entrances.

Do not construct rumble strips on bridges or concrete bridge approaches.

⊛ Construct rumble strips on directional ramps and tapers.

Either rumble strip shape is acceptable with no mixing of shapes on a project unless approved by the engineer.

SKIP PATTERN:

Rumble strips on asphalt will not have a skip pattern. Rumble strips on concrete shoulders will have a skip pattern to avoid joints. See Rumble Strip Layouts. For asphalt overlays, where the joints will be sawed and sealed, utilize a skip pattern approved by the Engineer.

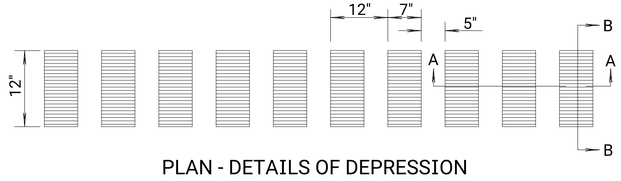
Adjust the number of depressions when concrete pavement contraction joint spacing is less than 15'-0". No variation in spacing between depressions is permitted. Clearance is 2'-0" (min.) to 3'-0" (max.) between the edge of depression and contraction joint. Center each group of depressions between contraction joints.

GAP PATTERN: (Gaps are added to provide break points in the rumbles for bicycles)

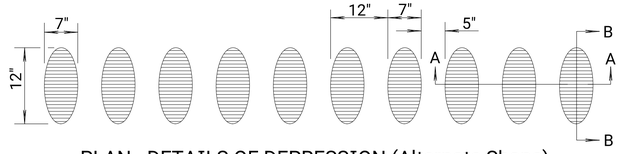
Multilane Divided Higways: Rumble strips will not have a gap pattern.

Two Lane Highways: Rumble strips will have a gap pattern for roadways with 3' or wider paved shoulder. Following the guidance below.

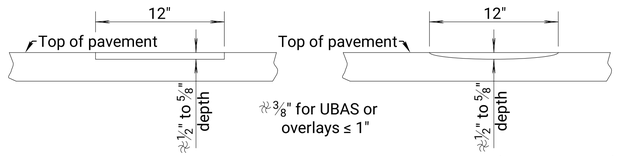
- Asphalt Shoulder: 10' gap provided every 50' of rumble strips
- Concrete Shoulder with 15' Joint Spacing: Omit the first 5 depressions in every fourth panel
- Concrete Shoulder with 6' Joint Spacing: Omit all the depressions in the 9th panel and the first 2 depressions in the 10th panel.
- Concrete Shoulder with other joint spacings or asphalt overlays: A gap pattern providing gaps of 10' to 12' every 40' to 60' of rumble strips should be developed and approved by the Engineer.



PLAN - DETAILS OF DEPRESSION

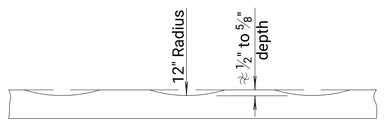


PLAN - DETAILS OF DEPRESSION (Alternate Shape)



SECTION B-B

SECTION B-B (ALT. SHAPE)



SECTION A-A
(Typical for both shapes)

NO.	DATE	REVISIONS	BY	APP'D
09	12-20-23	Depth note for UBAS and Overlays	A.L.R.	D.D.T.
08	03-17-21	Gap patterns to accomodate bicyclists	A.L.R.	S.W.K.
07	07-17-17	Revised notes & new sideroad label	A.L.R.	S.W.K.

KANSAS DEPARTMENT OF TRANSPORTATION

MILLED RUMBLE STRIPS (CONCRETE/ASPHALT SHOULDER) SHOULDER WIDTH ≥ 2'-0"

RD707

FHWA APPROVAL	03-20-24	APP'D.	Debbie D. Tanking
DESIGNED	DETAILED	QUANTITIES	TRACED
DESIGN CK.	DETAIL CK.	QUAN.CK.	TRACE CK.

KDOT Graphics Certified 05-11-2022

Sh. No. 19

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	482-11068	2026	20	104

TrafficGuard®

"The Original Multifunction Bollard"
Standard Features Include

Ease of use in 5 easy steps:
1. Remove padlock
2. Remove locking pin
3. Lower bollard post
4. Replace padlock and locking pin to locking pin hole in Bollard Post.
5. Allows vehicle access

Safety:
30" overall height and "Safety Yellow" finish are standard for high visibility. Custom colors available upon request.

Heavy Duty:
Closed Steel Tube Construction
Stainless Steel Locking Pin

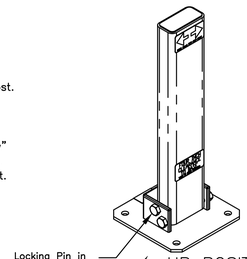
Proven Performance:
References Available Upon Request

Low Maintenance

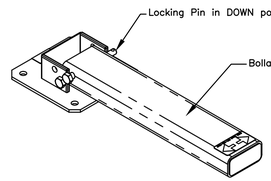
Warranty

$1,000,000 Liability Coverage

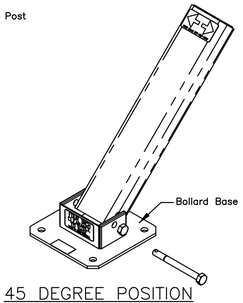
LOW PROFILE HEAVY DUTY HINGED BOLLARD (LPHDHB)
&
HEAVY DUTY HINGED BOLLARD (HDHB)



UP POSITION



DOWN POSITION



45 DEGREE POSITION
(Not Useable in this Position)

PRODUCT HIGHLIGHTS

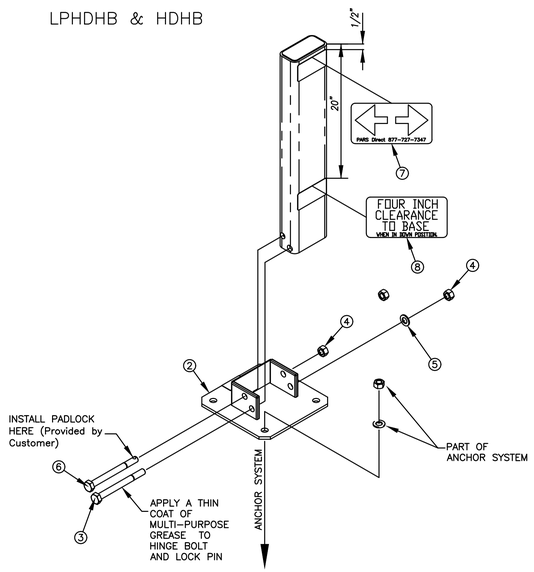
Locking Pin at Base

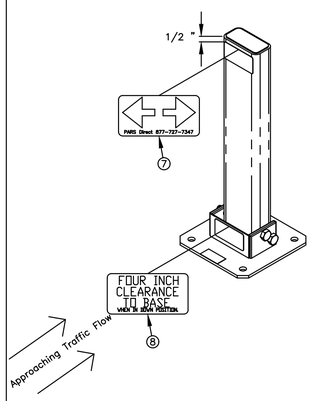
Clearance Height 4" in lowered position

Single Post design with 3" x 6" x 3/8" steel tube

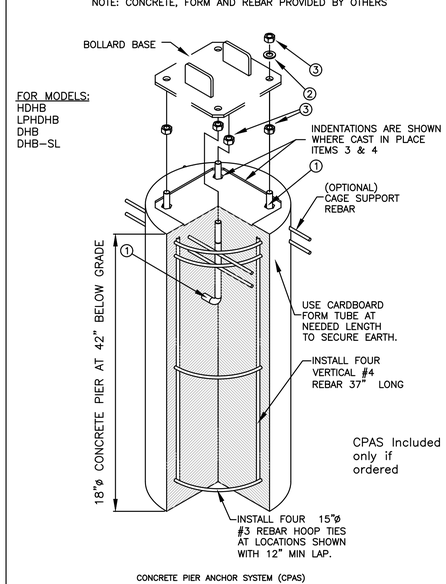
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LPHDHB & HDHB

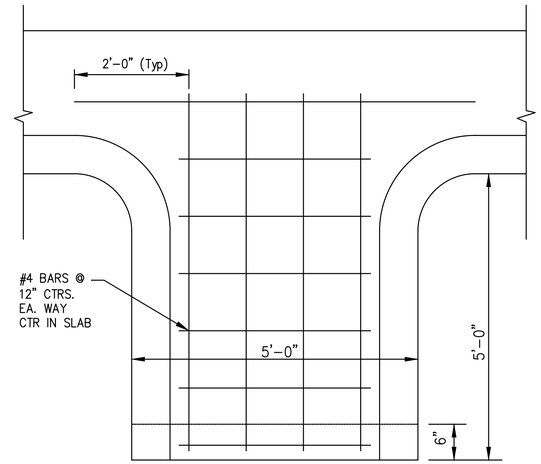




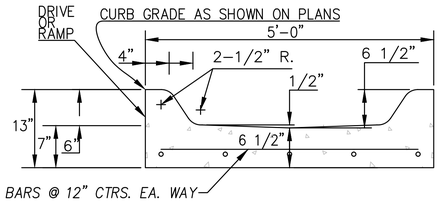
NOTE: CONCRETE, FORM AND REBAR PROVIDED BY OTHERS



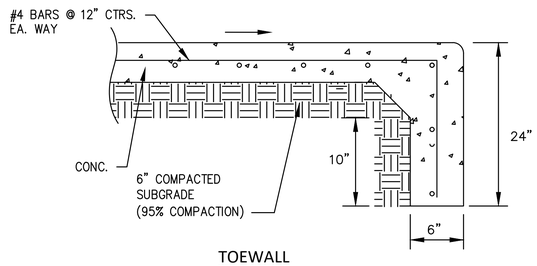
CONCRETE PIER ANCHOR SYSTEM (CPAS)



PLAN



CURB CUT/CONCRETE FLUME



TOEWALL
3" COVER (MIN.)

NOTES:

SAND IS NOT AN APPROVED FILL OR SUBGRADE MATERIAL

EXPANSION JOINT MATERIAL SHALL BE RECESSED FROM SURFACE 1/2" AND SEALED WITH APPROVED MATERIAL. JOINTS TO BE SEALED.

DRAINAGE FLUME DETAIL
NOT TO SCALE

SEE PLAN SHEETS FOR ELEVATIONS AND SLOPE

J:\2016Proj\161006\2024 Trail\Ph 1\CADD\Standards\Bollard Details.dwg 4/15/2026 - 1:24pm

NO.	DATE:	REVISION	BY:	APP'D

DRAWN BY: JMD
APP'D BY: DWH

CFS ENGINEERS

DANIEL W. HOLLOWAY — LICENSED — #15369 — 3-5-26 — KANSAS — PROFESSIONAL ENGINEER

ADAM PROHASKA — LICENSED — 31453 — 3-5-26 — KANSAS — PROFESSIONAL ENGINEER

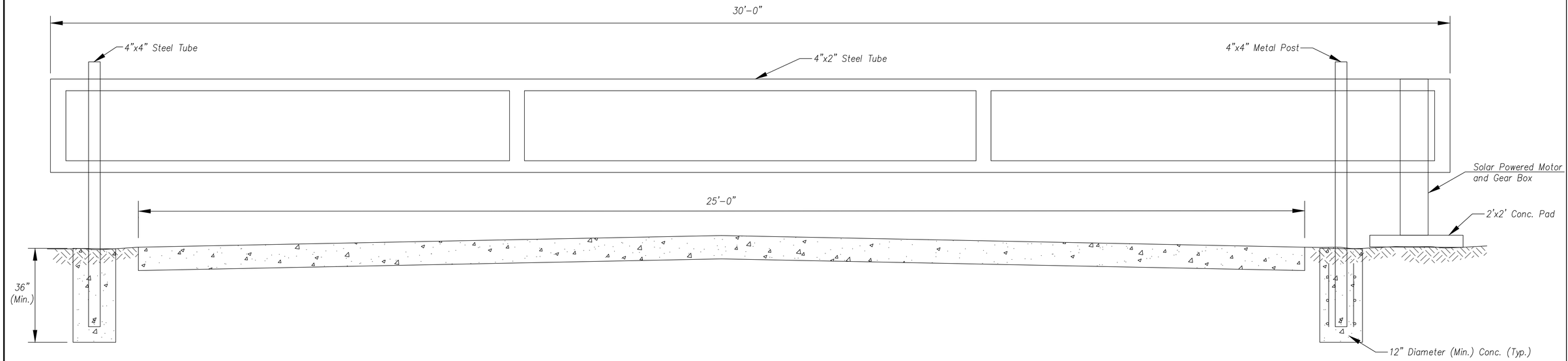
CITY OF WICHITA

MULTI-USE TRAIL
CRYSTAL PRAIRIE LAKE PARK
PHASE I
482-11068 (R2000)(R5006), 472-2026-086248, 458-2025-085639
WICHITA, KS

MISCELLANEOUS DETAILS
COLLAPSIBLE BOLLARD
DRAINAGE FLUME

DATE: Feb. 2026
SHEET: 20 of 104
PROJ.: 16-1006

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	482–11068	2026	21	104



GATE AT ENTRANCE ROAD
Sta. 100+80.00

List of Materials

1)	Cantilever Nylon Rollers w/ Covers	4 Each
2)	Catch Post 4"x4" Post 10' Long w/ Cap	2 Each
3)	Conc. Footing (12" Dia.)(Reinf.)	4 Each
4)	Hinge Posts 4"x4"x¼" Posts 10' Long w/ Cap	2 Each
5)	MPEL Mounting Pad in Conc/	1 Each
6)	Detector Loop on Each Side of the Gate (Safety Loops)	1 Lump Sum
7)	Keypad (KPW5) with 5 Codes	1 Each
8)	SOS Siren Sensor w/ Reset	1 Each
9)	Pipe Bollard 4"x4"	2 Each
10)	Timer TM619 4 Frontier 7 Day Timer 12 Volt	1 Each
11)	CSL 24UL HD Slide Com. Gate OP	1 Each
12)	Solar 40W33A RSW and RSL	1 Each

Note: Gate shall be provided by Cheney Door Company or approved equivalent.

NO.	DATE:	REVISION	BY:	APP'D

DRAWN BY: JMD
APP'D BY: DWH

CFS ENGINEERS

DANIEL W. HOLLOWAY — 2016 — #15360 — 3-5-26 — KANSAS — PROFESSIONAL ENGINEER

ADAM PROHASKA — LICENSED — 31459 — 3-5-26 — KANSAS — PROFESSIONAL ENGINEER

CITY OF WICHITA

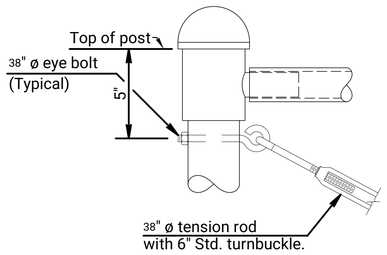
MULTI-USE TRAIL
CRYSTAL PRAIRIE LAKE PARK
PHASE I
482-11068 (R2000)(R5006), 472-2026-086248, 458-2025-085639
WICHITA, KS

GATE DETAILS

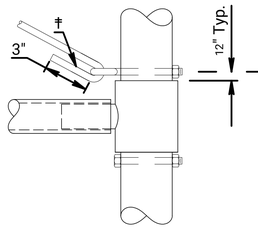
DATE: Feb. 2026
SHEET: 21 of 104
PROJ.: 16–1006

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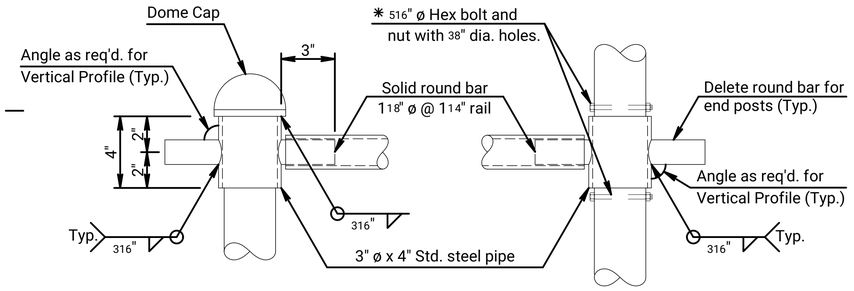
STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	482-11068	2026	22	104



TENSION ROD DETAIL

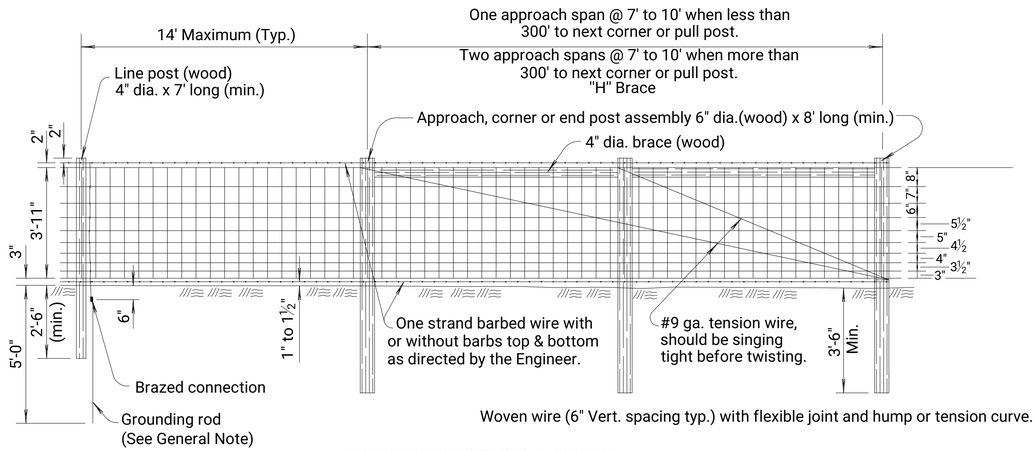


‡ Field bend hook on this end to fit. Shorten as required to achieve 3" tangent.



POST - RAIL CONNECTION

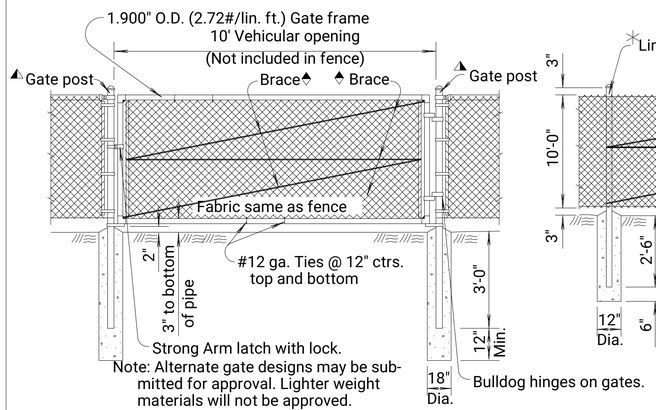
DETAILS FOR CHAIN LINK FENCE



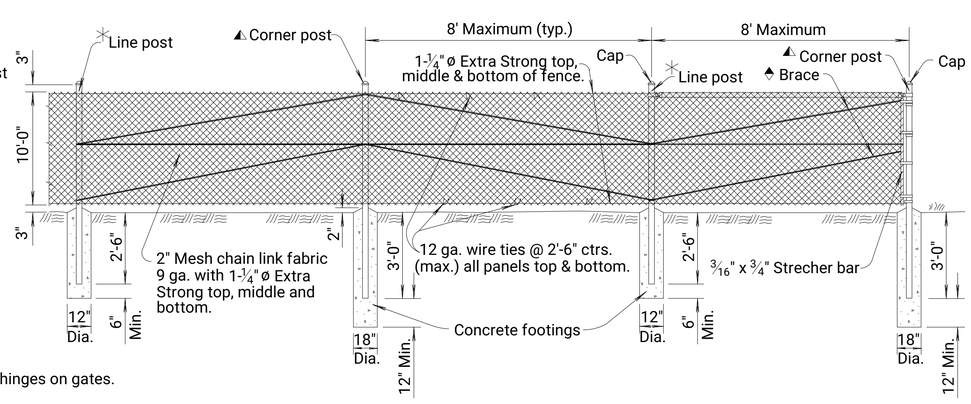
Woven wire (6" Vert. spacing typ.) with flexible joint and hump or tension curve.

WOVEN WIRE TYPE A FENCE

Pull post assembly for woven wire with wood posts is similar to barbed wire pull post assembly detail.



DETAIL of GATE, HINGE & SPECIFICATIONS



CHAIN LINK FENCE

(STEEL)

✡ Steel line post 13'-0" length
Studded T (1.33#/lin. ft.)
U (1.33#/lin. ft.)
H (2.27#/lin. ft.)

♠ Brace
1.25" O.D., Extra Strong

✳ Line post 13'-0" length.
2.5" O.D., Schedule 80 Extra Strong

◭ End, corner, gate, or pull post 13'-6" length.
(A120) 3" O.D., Schedule 80 Extra Strong, 200' Max Spacing

GENERAL NOTE

Wood posts and braces shall be given a preservative treatment as provided in the KDOT Standard Specifications.

Both ends of all wood posts shall be cut normal to the axis of the post. Pointed posts will not be permitted.

Wood corner, end, pull and approach posts shall be notched to support ends of wood braces. Wood braces shall be toenailed to the posts with 2-10d nails in each end of the brace.

When wood posts are used, both ends of all tension wires shall be wrapped around the posts twice and stapled in place.

When wood posts are used the fence shall be grounded by a $\frac{5}{8}$" diameter galvanized or copper coated rod five feet long, driven vertically until the top is six inches below the ground surface. A #6 solid copper conductor shall be securely fastened to each element of the fence by use of clamps or other suitable device. Grounding rod shall be installed at intervals of 175' maximum.

In lieu of using the galvanized or copper coated rod as described above the contractor may, at his option, use a steel line post at intervals not to exceed each eighth post.

The galvanized or copper coated rod shall be used where power lines pass over the fence.

All steel posts, braces, fittings, and gate frames shall be galvanized and/or coated in accordance with the Standard Specifications.

Steel posts shall be provided with fasteners prevent slippage of the wire strands.

Outside diameters shown for tubular steel posts, bracing and gate frames are nominal. Weight tolerances shall be as shown in the KDOT Standard Specifications.

Posts may be set by driving or digging. If by digging, the posts shall be set in the center of the hole and the soil tamped securely on all sides.

Pull post assembly shall be used at sharp breaks in vertical grade or at approximately 330' centers (Woven & Chain link) or 1320' centers (Barbed wire) on straight runs or as directed by the Engineer.

Concrete used in fence installation shall conform to the requirements of the KDOT Standard Specifications.

Woven wire, chain link fabric, barbed wire and tension wire shall be either zinc coated (galvanized) or aluminum coated.

Minimum strength of barbed wire and tension wire shall be as provided in the KDOT Standard Specifications.

Use #9 gauge galvanized staples $1\frac{1}{2}$" to $1\frac{3}{4}$" long, or #9 guage galvanized Ring-shank staples $1\frac{1}{2}$" to $1\frac{3}{4}$" long.

Alternate gate designs may be submitted for approval. Lighter weight materials will not be approved.

Padlocks for gates shall be furnished by Others.

NO.	DATE	REVISIONS	BY	APP'D
09	11-30-09	Rev. post listing,wood po. restrict.	S.W.K.	J.O.B.
08	11-08-05	Revised brace dimension	S.W.K.	J.O.B.
07	11-02-04	Added assembly to end post label	S.W.K.	J.O.B.

KANSAS DEPARTMENT OF TRANSPORTATION

HIGHWAY FENCE
BARBED, WOVEN, & CHAIN LINK

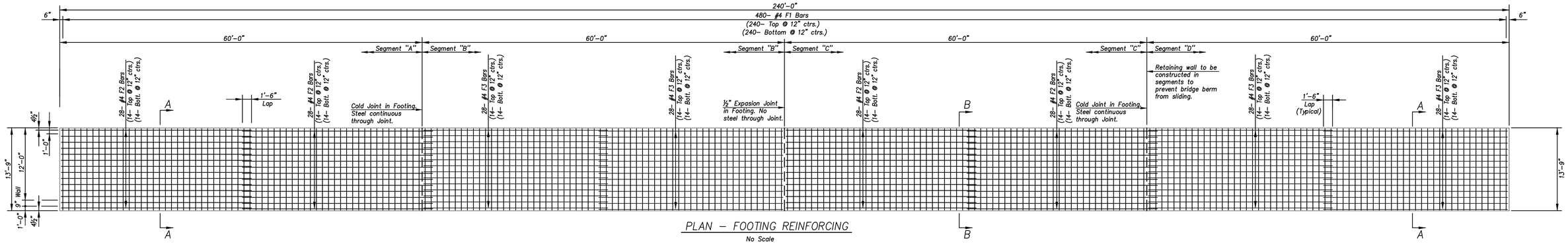
~~RD670A~~

FHWA APPROVAL	12-16-09	APP'D.	James O. Brewer
DESIGNED	DETAILED	QUANTITIES	TRACED
DESIGN CK.	DETAIL CK.	QUAN.CK.	TRACE CK.

KDOT Graphics Certified 05-18-2022

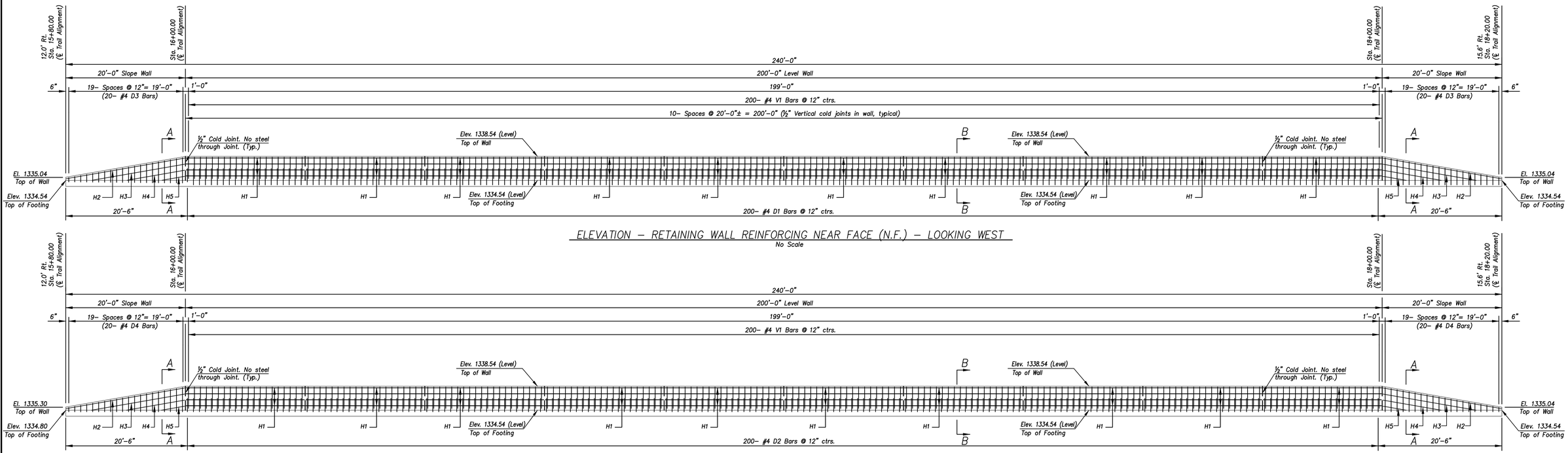
Sh. No. 22

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	482–11068	2026	23	104



PLAN – FOOTING REINFORCING

No Scale



ELEVATION – RETAINING WALL REINFORCING NEAR FACE (N.F.) – LOOKING WEST

No Scale

ELEVATION – RETAINING WALL REINFORCING FAR FACE (F.F.) – LOOKING WEST

No Scale

NO.	DATE:	REVISION	BY:	APP'D

DRAWN BY: JMD

APP'D BY: DWH

CFS ENGINEERS

DANIEL W. HOLLOWAY — LICENSED — #15360 — 4-5-26 — KANSAS — PROFESSIONAL ENGINEER

ADAM PROHASKA — LICENSED — 31453 — 4-5-26 — KANSAS — PROFESSIONAL ENGINEER

CITY OF WICHITA

MULTI-USE TRAIL
CRYSTAL PRAIRIE LAKE PARK
PHASE I
482-11068 (R2000)(R5006), 472-2026-086248, 458-2025-085639
WICHITA, KS

RETAINING WALL PLAN

DATE: Feb. 2026

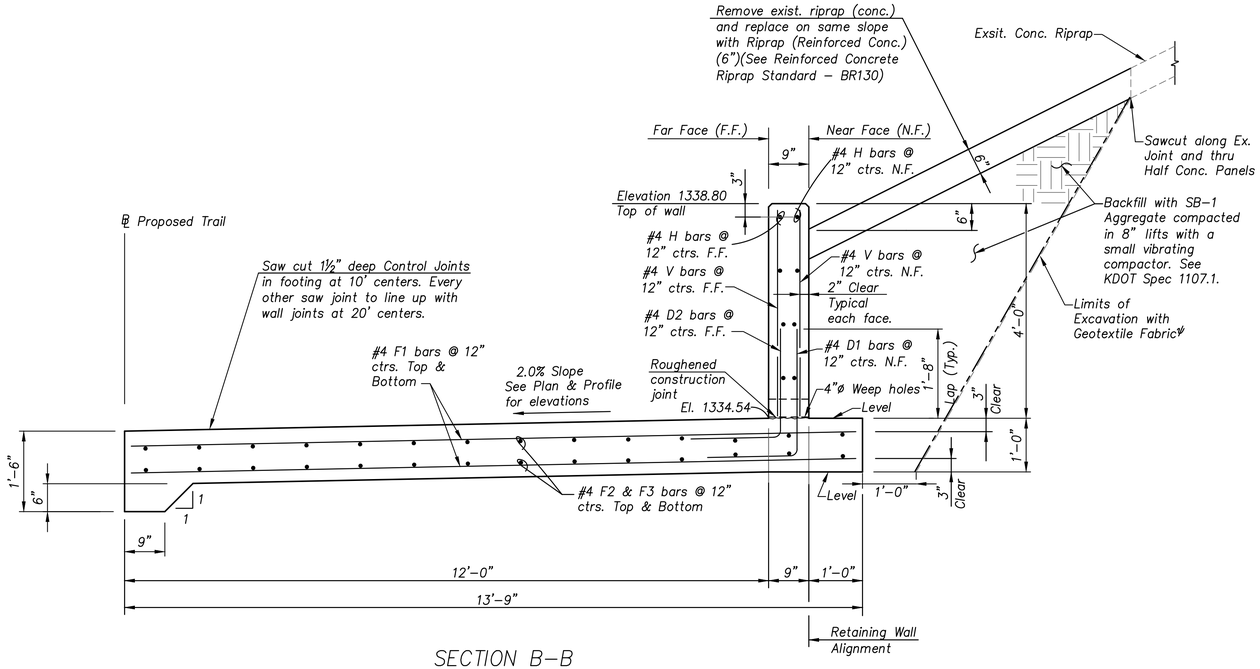
SHEET: 23 of 104

PROJ.: 16–1006

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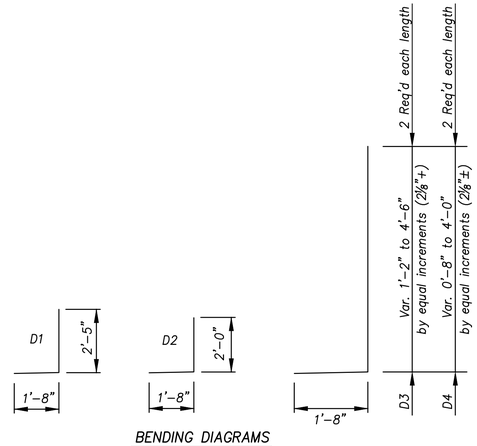
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STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	482–11068	2026	24	104



SECTION B–B

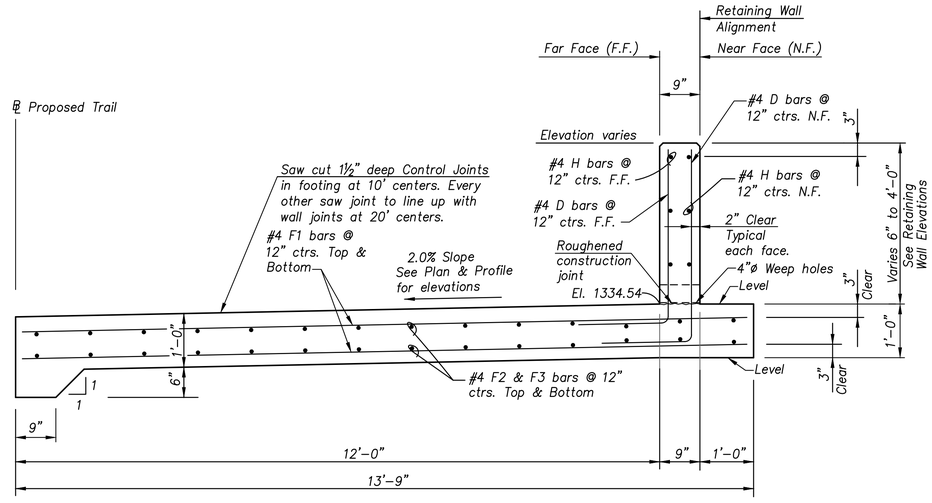
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BENDING DIAGRAMS

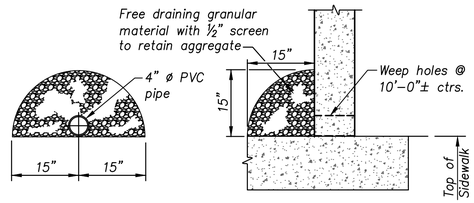
All dimensions are out to out of bars.

BILL OF REINFORCING								
	STRAIGHT BARS				BENT BARS			
	Mark	Size	No.	Length	Mark	Size	No.	Length
(EPOXY COATED)	F1	#4	480	13'–3"	D1	#4	200	4'–1"
	F2	#4	112	31'–6"	D2	#4	200	3'–8"
	F3	#4	112	30'–6"	D3	#4	40	Varies
					D4	#4	40	Varies
	V1	#4	400	3'–7"				
	H1	#4	80	19'–8"				
	H2	#4	4	20'–1"				
	H3	#4	4	15'–9"				
	H4	#4	4	9'–9"				
	H5	#4	4	3'–11"				



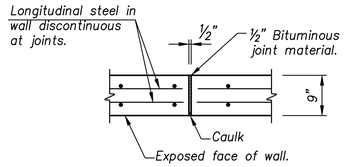
SECTION A–A

Scale: ¾"=1'–0"



WEEP HOLE DETAIL

Scale: ¾"=1'–0"
(Subsidiary to bid item "Concrete Grade 4.0 (AE)")



WALL JOINT DETAIL

Scale: ¾"=1'–0"

GENERAL NOTES – RETAINING WALL

Design Specification: AASHTO LRFD Spec. (10th Edition)

Design Loading: Equivalent fluid pressure = 60 lbs/ft³

Allowable Soil Bearing: 1,500 lbs/ft² (Assumed, field verify)

Concrete: Grade 4.0 (AE) Concrete shall be used throughout. Bevel all exposed edges with a ¾" triangular moulding.

Reinforcing: All reinforcing shall conform to ASTM A615, Grade 60 (Epoxy coated). All dimensions relative to reinforcing steel shall be to centerline of bar unless otherwise noted.

Existing Concrete Riprap: The Contractor shall remove the existing concrete riprap on the bridge berm slopes prior to excavating for the retaining wall. Replace with Slope Protection (Aggregate) D_{50} = 4". Place 6" thick. See Bridge Berm Slope Protection Standard.

Excavation: All excavation for the retaining wall shall be subsidiary to other items. Because of the potential for sliding movement of the berm slopes, the retaining wall shall be built in four separate segments as shown on the plans. The bridge berm for each segment will need to be back filled prior to excavation of the adjacent segment.

Granular Backfill: All backfill material shall SB–1. SB–1 backfill shall be compacted in 8" lifts with small vibrating compactor.

SUMMARY OF QUANTITIES		
Items	Quantity	Units
Concrete Grade 4.0 (AE)	151.4	C.Y.
Reinforcing Steel (Gr. 60)(Epoxy Coated)	12,180	lbs.
Riprap (Reinforced Concrete)(6")	131	C.Y.
Slope Protection (Aggregate)*	45	C.Y.
Geotextile Fabric ψ	260	S.Y.
Granular Backfill	145	C.Y.

*Quantity is for gravel drain from Sta. 15+50.00 to Sta. 18+20.00. See Sht. No. 03

ψ Geotxtile Fabric shall comply with the general physical and the geotextile property requirements for an AASHTO M 288, Class 2. For more information see KDOT Standard Specifications, Section 1710. Geotextile Fabric must be on KDOT's Prequalified Materials List for use on this project.

NO.	DATE:	REVISION	BY:	APP'D

DRAWN BY: JMD

APP'D BY: DWH

CFS ENGINEERS

DANIEL W. HOLLOWAY LICENSED PROFESSIONAL ENGINEER 15360 KANSAS 3-5-26

ADAM PROHASKA LICENSED Kansas Professional 31459 3-5-26 KANSAS PROFESSIONAL ENGINEER

CITY OF WICHITA

MULTI-USE TRAIL
CRYSTAL PRAIRIE LAKE PARK
PHASE I
482-11068 (R2000)(R5006), 472-2026-086248, 458-2025-085639
WICHITA, KS

RETAINING WALL DETAILS

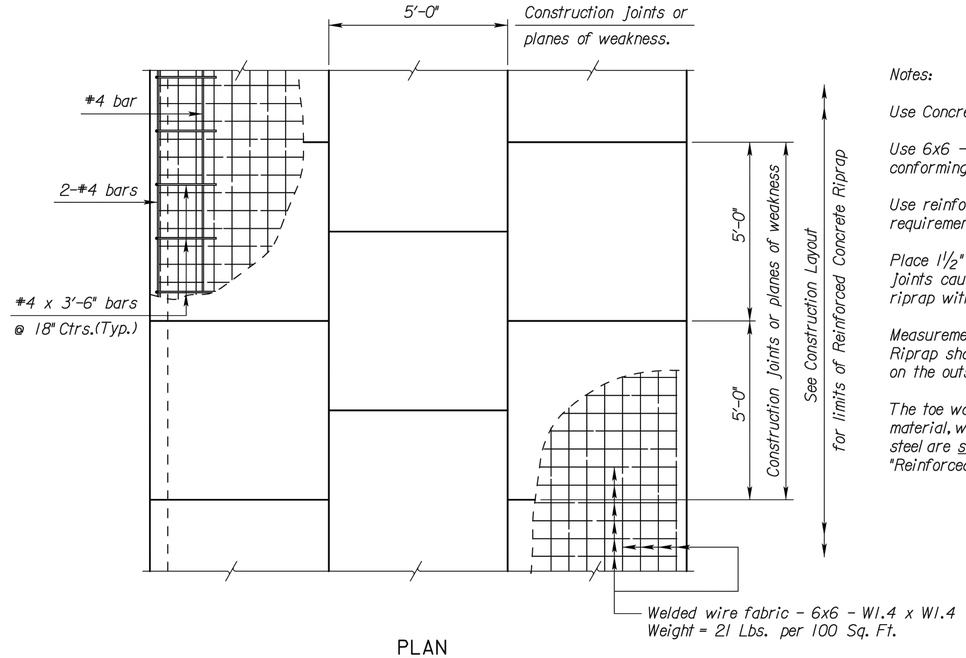
DATE: Feb. 2026

SHEET: 24 of 104

PROJ.: 16–1006

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STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	482-11068	2026	25	104



PLAN
(Showing Joint Layout)

Notes:

Use Concrete (Grade 3.0)(AE) for the riprap.

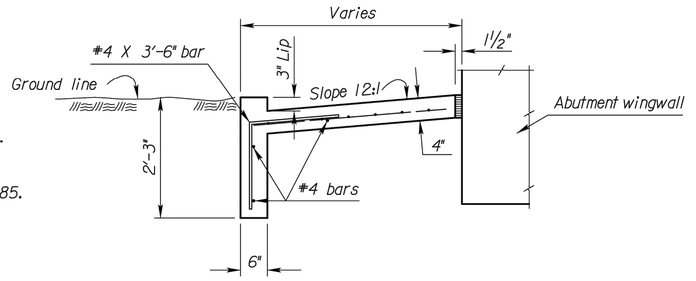
Use 6x6 - W1.4 x W1.4 welded wire fabric conforming to the requirements of ASTM A185.

Use reinforcing steel conforming to the requirements of ASTM A615, Grade 60.

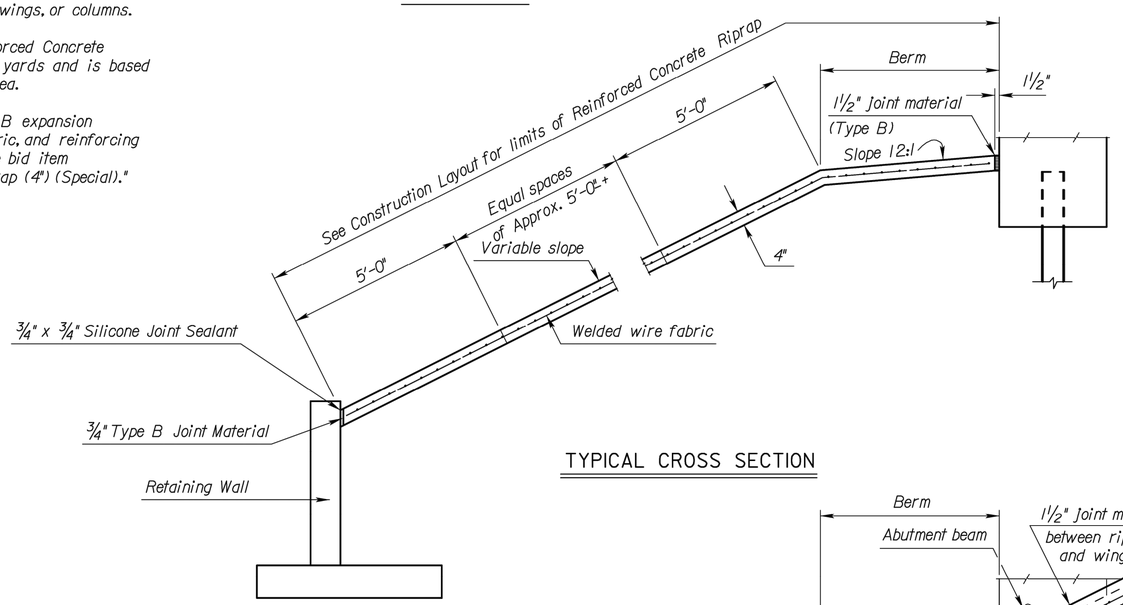
Place 1½" Type B expansion material in the joints caused by any intersection of the riprap with the abutment, wings, or columns.

Measurement of the Reinforced Concrete Riprap shall be in square yards and is based on the outside surface area.

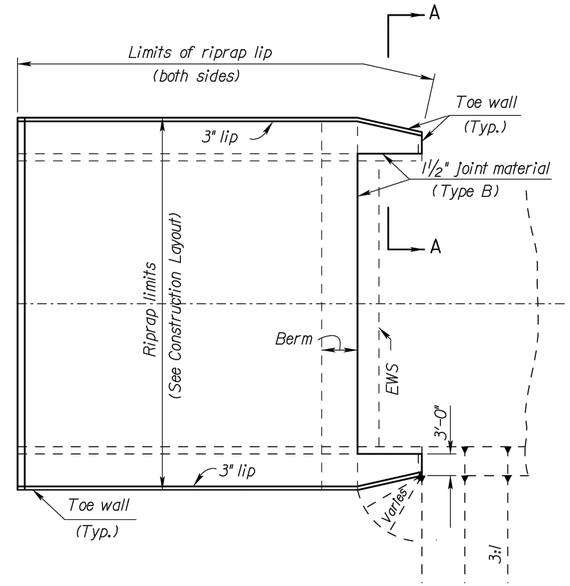
The toe walls, 3" lip, Type B expansion material, welded wire fabric, and reinforcing steel are subsidiary to the bid item "Reinforced Concrete Riprap (4") (Special)."



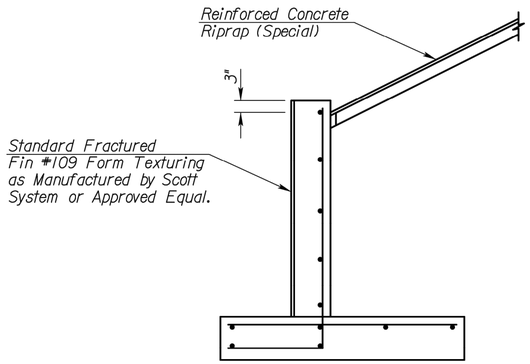
SECTION A-A



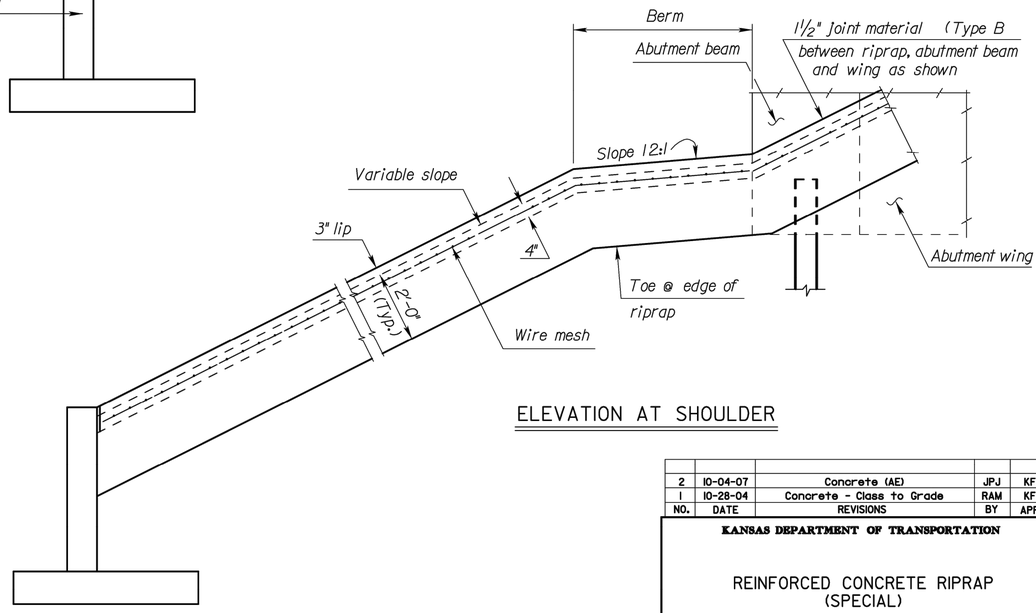
TYPICAL CROSS SECTION



TYPICAL PLAN



WALL TEXTURE ELEVATION



ELEVATION AT SHOULDER

NO.	DATE	REVISIONS	BY	APP'D
2	10-04-07	Concrete (AE)	JPJ	KFH
1	10-28-04	Concrete - Class to Grade	RAM	KFH

KANSAS DEPARTMENT OF TRANSPORTATION

REINFORCED CONCRETE RIPRAP (SPECIAL)

~~BRI30~~

FHWA APPROVAL		8-24-88	APP'D		KENNETH F. HURST
DESIGNED		DETAILED	RDR	QUANTITIES	TRACED
DESIGN CK.		DETAIL CK.	JVJ	QUAN.CK.	TRACE CK.

STATE		Wichita-Sedgwick County Metropolitan Area Building and Construction Department	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS		REVIEWED FOR CODE COMPLIANCE	2026	26	104

482-11068

THIS DOCUMENT IS REVIEWED FOR CODE COMPLIANCE ONLY AND THIS DOCUMENT DURING FIELD REVIEW DO NOT RELIEVE CONTRACTOR FROM COMPLIANCE WITH ALL REQUIREMENTS OF THE CONSTRUCTION DOCUMENTS. THIS REVIEW IS SUBJECT TO THE PROVISIONS OF SECTION 104.2 OF THE 2018 INTERNATIONAL BUILDING CODE AS ADOPTED BY SEDGWICK COUNTY, KANSAS.

BY: Keri Jacobs DATE: 4/14/2026

CONCRETE PAVEMENT 6"

LOCATION	UNIT S.Y.
Sta. 25+15.00 to Sta. 25+23.00	5.3
Sta. 103+03.00, 55' Rt.	5.3
Sta. 101+62.21 to Sta. 103+17.79	437
Sta. 103+17.79 to Sta. 104+01.79	1,409
SUB-TOTAL	1,856.6
TOTAL	1,857

CONCRETE PAVEMENT 8"

LOCATION	UNIT S.Y.
Sta. 50+77.84 to Sta. 50+89.34	9.8
Sta. 100+13.20 to Sta. 101+62.21	475
SUB-TOTAL	484.8
TOTAL	485

CONCRETE PAVEMENT REMOVED

LOCATION	UNIT S.Y.
Sta. 50+77.84 to Sta. 50+89.34	38.7
SUB-TOTAL	38.7
TOTAL	39

WHEELCHAIR RAMP (10' WIDE)

LOCATION	UNIT EACH
Sta. 10+17.00	1
Sta. 11+43.66	1
Sta. 19+05.27	1
Sta. 20+07.74	1
Sta. 39+70.52	1
Sta. 40+01.11	2
Sta. 40+20.85	1
Sta. 50+25.66	1
Sta. 50+47.18	1
Sta. 50+83.74	2
Sta. 51+01.91	1
Sta. 103+07.79, 65' Rt.	1
SUB-TOTAL	14
TOTAL	14

CONCRETE SIDEWALK 8" (10' WIDE)(RED)*

LOCATION	UNIT S.F.
Sta. 23+00.00 to Sta. 23+20.00	202
Sta. 26+00.00 to Sta. 26+20.00	197
Sta. 38+30.00 to Sta. 38+50.00	197
Sta. 51+50.00 to Sta. 51+70.00	209
SUB-TOTAL	805
TOTAL	805

*Note: Red Dye will be Davis Colors Mocha 6058.

AC PAVEMENT 6"

LOCATION	UNIT S.Y.
Sta. 11+71.00 to Sta. 15+00.00	131.7
Sta. 15+00.00 to Sta. 15+25.00	11.7
SUB-TOTAL	143.4
TOTAL	144

CRUSHED ROCK BASE 6"

LOCATION	UNIT S.Y.
Sta. 50+77.84 to Sta. 50+89.34	38.7
Sta. 100+13.20 to Sta. 101+62.21	661.3
SUB-TOTAL	700.0
TOTAL	700

CRUSHED ROCK BASE 4"

LOCATION	UNIT S.Y.
Sta. 101+62.21 to Sta. 104+01.79	2,099.9
SUB-TOTAL	2,099.9
TOTAL	2,100

CONCRETE SIDEWALK 6" (10' WIDE)

LOCATION	UNIT S.F.
Sta. 9+95.00 to Sta. 10+17.00	220
Sta. 11+71.00 to Sta. 15+00.00	3,290
Sta. 15+00.00 to Sta. 15+32.75	250
Sta. 15+32.75 to Sta. 15+80.00	566
Sta. 18+20.00 to Sta. 18+50.00	333
Sta. 18+50.00 to Sta. 19+05.27	551
Sta. 20+07.74 to Sta. 23+00.00	2,916
Sta. 23+20.00 to Sta. 25+00.00	1,811
Sta. 25+00.00 to Sta. 26+00.00	985
Sta. 26+20.00 to Sta. 30+00.00	3,819
Sta. 30+00.00 to Sta. 35+00.00	4,986
Sta. 35+00.00 to Sta. 38+30.00	3,304
Sta. 38+50.00 to Sta. 39+70.52	1,211
Sta. 40+31.52 to Sta. 40+87.70	716
Sta. 50+10.00 to Sta. 50+47.33	338
Sta. 51+12.17 to Sta. 51+50.00	378
Sta. 51+70.00 to Sta. 51+96.67	352
Sta. 52+06.67 to Sta. 52+26.67	285
Sta. 101+08.64 to Sta. 103+07.79	2,084
SUB-TOTAL	28,395
TOTAL	28,395

EARTHWORK

STATION to STATION	EXCAVATION COMMON CU.YDS.	EXCAVATION COMMON VMF	EXCAVATION CITY FURN. CU.YDS.	FILL, COMPACTED DENSITY 95% CU.YDS.	FILL, COMPACTED DENSITY 90% CU.YDS.
Sta. 9+95.00 to Sta. 19+05.27	200		70	70	
Sta. 20+07.74 to Sta. 40+90.30	5		13,310	13,310	
Sta. 50+10.00 to Sta. 52+26.67	5		125	125	
Sta. 100+13.20 to Sta. 104+01.79			6,505	6,505	
Sta. 24+00 to Sta. 26+00 (Conc. Wall Berms)			663		663
TOTALS	210		20,673	20,010	663

CONCRETE CURB AND GUTTER

LOCATION	TYPE 1 L.F.	TYPE 3 L.F.
Sta. 40+70.00 to Sta. 40+90.30	55	
Sta. 50+77.84 to Sta. 50+89.34		62
Sta. 100+13.20 Rt. to Sta. 100+62.21 Rt.	159	92
Sta. 100+13.20 Lt. to Sta. 100+62.21 Lt.	156	92
TOTAL	370	246

FENCE AND BOLLARDS

Location	Woven Wire (Type A or B) Replaced (L.F.)	Woven Wire (Type A or B) Removal (L.F.)	Woven Wire (Type A or B) "H" Brace (EACH)	Chain Link (10') Install (L.F.)	Chain Link (10') Removal (L.F.)	Chain Link (10') Gate 10' (EACH)	Bollards Collapsible (EACH)	Bollards Wood (EACH)
Sta. 21+50.00	37		4				1	2
Sta. 38+75.00 to Sta. 40+20.00		81			145		1	22
Sta. 51+41.59	30	50	2				1	2
Sta. 101+40.00 to Sta. 104+10.00							1	150
Sta. 200+00.00 to Sta. 215+00.00				1,450				
Sta. 215+00.00 to Sta. 230+00.00				1,500				
Sta. 230+00.00 to Sta. 245+00.00				1,480		2		
Sta. 245+00.00 to Sta. 260+00.00				1,480		2		
Sta. 260+00.00 to Sta. 266+48.00				613		2		
TOTAL	67	131	6	6,523	145	6	4	176

PIPE, SWS (RCP)

LOCATION	SIZE	LENGTH (L.F.)	END SECTIONS	FLOW LINE Lt.	FLOW LINE Rt.	Riprap (S.Y.) Lt.	Riprap (S.Y.) Rt.
Sta. 20+82.00	24"	70	2	1333.20	1333.00	2.8	2.8
Sta. 50+43.33	18"	10	1	1333.29	1333.18	2.8	
Sta. 51+19.62	15"	28	2	1334.20	1334.00	2.8	2.8
Sta. 100+52.00	15"	100	2	1335.30	1335.15	2.8	2.8
				SUB-TOTAL		19.6	
				TOTAL		20	

CONC. RAMP NOSE SECTION (MEDIAN)

LOCATION	UNIT EACH
Sta. 50+77.84 Rt. to Sta. 50+89.34 Rt.	1
Sta. 50+77.84 Lt. to Sta. 50+89.34 Lt.	1
TOTAL	2

CONCRETE FLUME

LOCATION	UNIT EACH
Sta. 40+66.50	1
TOTAL	1

CONC. CURB REMOVE AND REPLACE

LOCATION	UNIT L.F.
Sta. 10+17.00	32
Sta. 11+43.66	32
Sta. 19+05.27	29
Sta. 20+07.74	32
TOTAL	125

RECAPITULATION OF QUANTITIES

NO.	ITEM	QUANTITY	UNIT
1	Contractor Construction Staking	Lump Sum	L.S.
2	Mobilization	Lump Sum	L.S.
3	Site Clearing	Lump Sum	L.S.
4	Removal of Existing Structures	Lump Sum	L.S.
5	Excavation	210	C.Y.
6	Common Excavation (City Furnished)	20,673	C.Y.
7	Fill, compacted (95% Density)	20,010	C.Y.
8	Fill, compacted (90% Density)	663	C.Y.
9	Concrete Pavement Removed	39	S.Y.
10	Concrete Pavement (6")	1,857	S.Y.
11	Concrete Pavement (8")	485	S.Y.
12	AC Pavement 6"	144	S.Y.
13	6" Crushed Rock Base	700	S.Y.
14	4" Crushed Rock Base	2,100	S.Y.
15	Concrete Flume	1	Each
16	Retaining Wall (Sidewalk)	890	S.F.F.
17	Concrete Ramp Nose Section (Median)	2	Each
18	Concrete Curb and Gutter Removed and Replaced	125	L.F.
19	Concrete C&G, Type 1(6"&1-1/2")	370	L.F.
20	Concrete C&G, Type 3(8"&1-1/2")	246	L.F.
21	Concrete Sidewalk 6"	28,395	S.F.
22	Concrete Sidewalk 8" (Colored)	805	S.F.
23	Wheelchair Ramp	14	Each
24	Pipe, SWS 15" (RCP)	128	L.F.
25	Pipe, End Section 15" (RC)	4	Each
26	Pipe, SWS 18" (RCP)	10	L.F.
27	Pipe, End Section 18" (RC)	1	Each
28	Pipe, SWS 24" (RCP)	70	L.F.
29	Pipe, End Section 24" (RC)	2	Each
30	Riprap (Light Stone)	20	S.Y.
31	Riprap (Reinforced Concrete)(6")	131	S.Y.
32	Slope Protection (Aggregate)(4")	45	C.Y.
33	Fence Removed	131	L.F.
34	Fence Removed & Replaced (Wooven Wire)	67	L.F.
35	Fence (Chain Link)(10')	6,523	L.F.
36	Fence ("H" Brace)	6	Each
37	Fence (Gate)(10')	6	Each
38	Automatic Gate(20')	2	Each
37	Temporary Seeding	Lump Sum	L.S.
38	Tree Removal, Small	10	Each
39	Tree Removal, Large	10	Each
40	Trash Receptacle	1	Each
41	Signing	Lump Sum	L.S.
42	BMP, Ditch Check	140	L.F.
43	BMP, Silt Fence	100	L.F.
44	BMP, Erosion Control Mat	260	S.Y.
45	Bollards (Wood)(Doomed)	176	Each
46	Bollards (Collapsible)	3	Each
47	Pedestrian Beacon (Yellow Flashing Beacon)	Lump Sum	L.S.
48	Traffic Control	Lump Sum	L.S.

For Signing Quantities, See Sht. No. 34
For Pavement Marking Quantities, See Sht. No. 32
For Retaining Wall Quantities See Sht. No. 24

*REMOVAL OF EXISTING STRUCTURES

Location	Structure
Sta. 15+80.00 to Sta. 18+40.00	Exist. Conc. Riprap
Sta. 50+43.33	Exist. Conc. End Sect.

* For information only.

NO.	DATE:	REVISION	BY:	APP'D

DRAWN BY: JMD
APP'D BY: DWH

CFS ENGINEERS

DANIEL W. HOLLOWAY LICENSED #15360 3-5-26 KANSAS PROFESSIONAL ENGINEER

ADAM PROHASKA LICENSED 31453 3-5-26 KANSAS PROFESSIONAL ENGINEER

CITY OF WICHITA

MULTI-USE TRAIL
CRYSTAL PRAIRIE LAKE PARK
PHASE I
482-11068 (R2000)(R5006), 472-2026-086248, 458-2025-085639
WICHITA, KS

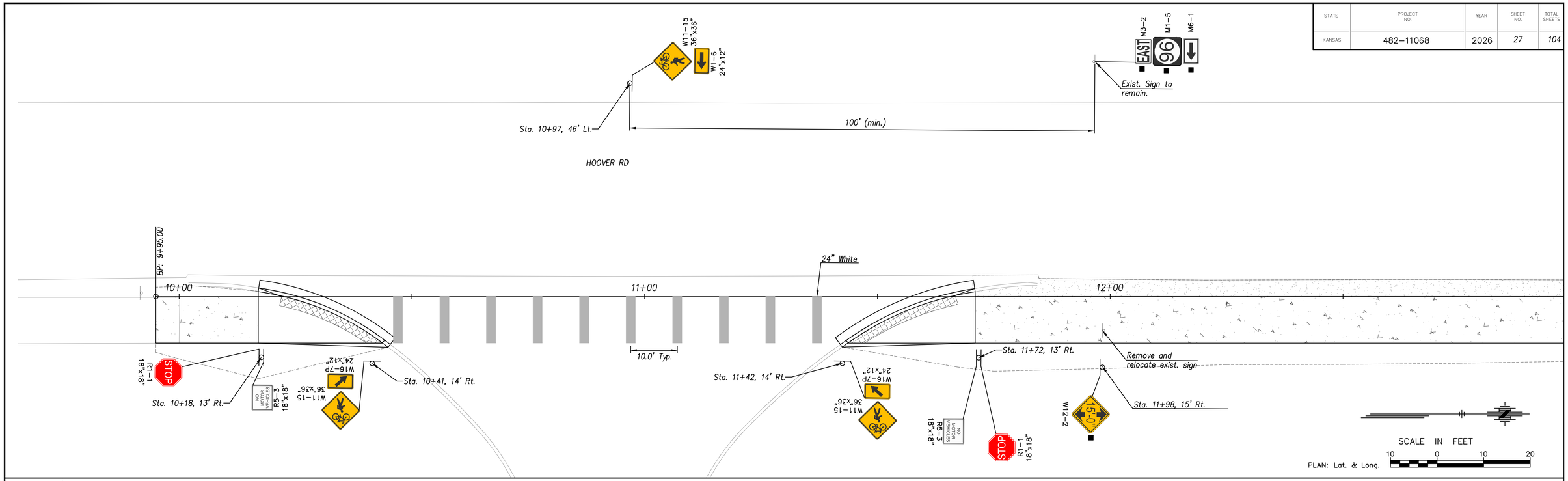
RECAPITULATION OF QUANTITIES

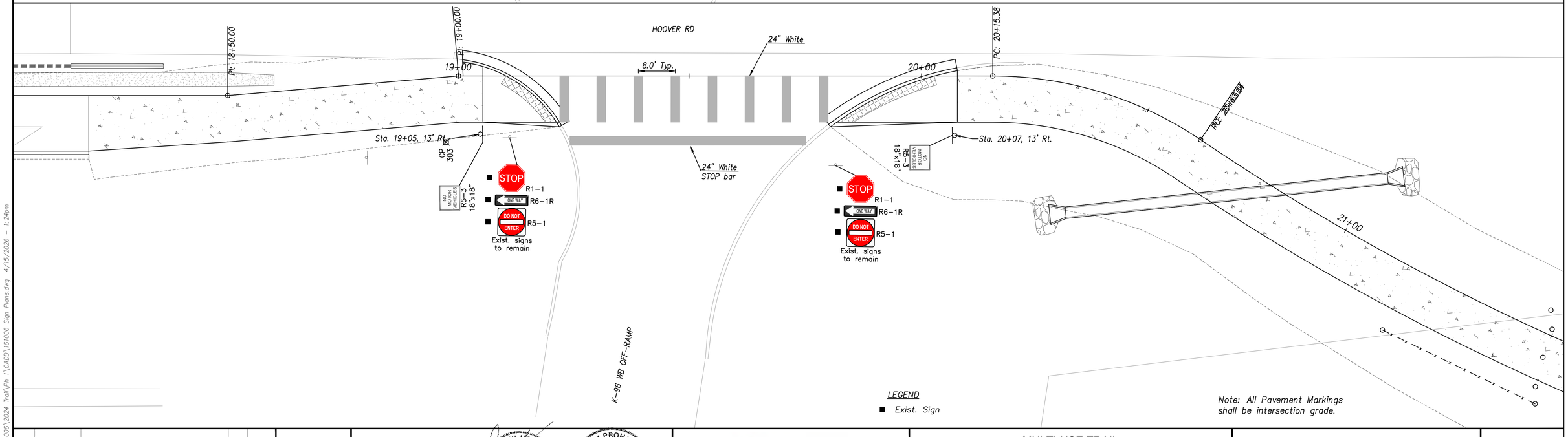
DATE: Feb. 2026
SHEET: 26 of 104
PROJ.: 16-1006

Sh. No. 26

J:\2016Proj\161006\2024 Trail\Ph 1\CADD\Standards\RD050.dwg 3/05/2026 - 7:38am

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	482-11068	2026	27	104





NO.	DATE:	REVISION	BY:	APP'D

DRAWN BY: JMD

APP'D BY: DWH

CFS ENGINEERS

DANIEL W. HOLLOWAY LICENSED #15360 11-5-26 KANSAS PROFESSIONAL ENGINEER

ADAM PROHASKA LICENSED 31453 11-5-26 KANSAS PROFESSIONAL ENGINEER

CITY OF WICHITA

MULTI-USE TRAIL
CRYSTAL PRAIRIE LAKE PARK
PHASE I
482-11068 (R2000)(R5006), 472-2026-086248, 458-2025-085639
WICHITA, KS

SIGNING PLAN
K-96 Off-ramp
K-96 On-Ramp

DATE: Feb. 2026
SHEET: 27 of 104
PROJ.: 16-1006

J:\2016Proj\161006\2024 Trail\Ph 1\CADD\161006 Sign Plans.dwg 4/15/2026 - 1:24pm

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	482–11068	2026	28	104

KOLLMEYER ST

8.0' 8.0' 7.0' 7.0' 7.0' 8.5' 8.5'

18" RCP

24" White

PI: 50+10.00

PI: 50+20.00

Sta. 50+47, 1' Lt.

350'

Install Pedestrian Beacon.
See Sht. No. 30

PI: 50+59.31

W16-7P 24"x12"

W11-15 36"x36"

W11-15 36"x36"

W16-7P 24"x12"

W11-15 36"x36"

W16-9P 24"x12"

AHEAD

Sta. 50+63 Lt.

24" White

R4-7 24"x30"

OM1-3 18"x18"

HOOVER RD

Sta. 50+84, 13' Rt.

Sta. 50+84, 7' Lt.

OM1-3 18"x18"

R4-7 24"x30"

51+00

PI: 51+02.07

350'

Sta. 51+06 Rt.

AHEAD

W16-9P 24"x12"

W11-15 36"x36"

Sta. 51+12, 11' Rt.

W16-7P 24"x12"

W11-15 36"x36"

W11-15 36"x36"

W16-9P 24"x12"

Install Pedestrian Beacon.
See Sht. No. 30

CP 302

PI: 51+57.69

40'

50'

R1-1 18"x18"

STOP

Sta. 51+92, 16' Rt.

25+00

52+00

Note: All Pavement Markings shall be intersection grade.

SCALE IN FEET

10 0 10 20

PLAN: Lat. & Long.

NO.	DATE:	REVISION	BY:	APP'D

DRAWN BY: JMD

APP'D BY: DWH

CFS ENGINEERS

DANIEL W. HOLLOWAY — LICENSED — #15360 — 4-5-26 — KANSAS — PROFESSIONAL ENGINEER

ADAM PROHASKA — LICENSED — 31453 — 4-5-26 — KANSAS — PROFESSIONAL ENGINEER

CITY OF WICHITA

MULTI-USE TRAIL
CRYSTAL PRAIRIE LAKE PARK
PHASE I
482-11068 (R2000)(R5006), 472-2026-086248, 458-2025-085639
WICHITA, KS

SIGNING PLAN
Hoover Road Crossing

DATE: Feb. 2026
SHEET: 28 of 104
PROJ.: 16-1006

J:\2016Proj\161006\2024 Trail\Ph 1\CADD\161006 Sign Plans.dwg 4/15/2026 - 1:24pm

STATE		YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	482-11068	2026	29	104

Wichita-Sedgwick County Metropolitan Area Building and Construction Department

REVIEWED FOR CODE COMPLIANCE

USE OF THIS DOCUMENT DURING CITY REVIEW DO SHALL RELEASE CONSTRUCTION FROM COMPLYING WITH ALL REQUIREMENTS OF THE CODES OF THE MARCH 23, THE CITY OF WICHITA OR SEDGWICK COUNTY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONFORMING AND OPERATING ALL TECHNIQUES OF CONSTRUCTION. THIS APPROVAL IS SUBJECT TO PROVISIONS OF SECTION 107.4 OF THE INTERNATIONAL BUILDING CODE.

DATE: 4/14/2026 BY: Keri Jacobs

Remove exist. sign (Salvage to owner)

Exist. Gas Marker to remain.

OM1-3 18"x18"

R4-7 24"x30"

Sta. 100+27, 28' Lt.

STOP R1-1 30"x30"

Sta. 100+43, 0' Rt.

W16-7P 24"x12"

W11-15 36"x36"

PI: 38+95.61

39+00

PC: 39+23.26

Sta. 39+78, 5' Lt.

PT: 39+69.76

40+00

101000

Sta. 39+71, 13' Rt.

STOP R1-1 18"x18"

NO MOTOR VEHICLES R5-3 18"x18"

24" White

Sta. 101+23, 0' Rt.

R4-7 24"x30"

OM1-3 18"x18"

NO MOTOR VEHICLES R5-3 18"x18"

STOP R1-1 18"x18"

PI: 40+79.76

Sta. 40+92, 6' Lt.

41+00

Sta. 40+92, 0' Rt.

Sta. 40+92, 6' Rt.

OM4-3 18"x18" (3 Total)

Sta. 40+30, 3' Lt.

PC: 40+31.94

24" White

Sta. 40+24, 14' Rt.

W11-15 36"x36"

W16-7P 24"x12"

CP 103-10300

02+00

Note: All Pavement Markings shall be intersection grade.

103+00

Sta. 103+17, 58' Rt.

D9-6sp 12"x18"

Sta. 103+17, 78' Rt.

D9-6sp 12"x18"

SCALE IN FEET

10 0 10 20

PLAN: Lat. & Long.

NO.	DATE:	REVISION	BY:	APP'D

DRAWN BY: JMD

APP'D BY: DWH

CFS ENGINEERS

DANIEL W. HOLLOWAY #15369 LICENSED PROFESSIONAL ENGINEER KANSAS

ADAM PROHASKA LICENSED 31459 PROFESSIONAL ENGINEER KANSAS 3-5-26

CITY OF WICHITA

MULTI-USE TRAIL
CRYSTAL PRAIRIE LAKE PARK
PHASE I
482-11068 (R2000)(R5006), 472-2026-086248, 458-2025-085639
WICHITA, KS

SIGNING PLAN
Entrance Road Crossing

DATE: Feb. 2026
SHEET: 29 of 104
PROJ.: 16-1006

J:\2016Proj\161006\2024 Trail\Ph 1\CADD\161006 Sign Plans.dwg 3/05/2026 - 7:38am

STATE		Wichita-Sedgwick County Metropolitan Area Building and Construction Department	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS		REVIEWED FOR CODE COMPLIANCE	2026	30	104

482-11068

THIS DOCUMENT DURING THE REVIEW PROCESS SHALL NOT RELIEVE ANY CONTRACTOR FROM COMPLYING WITH ALL REQUIREMENTS OF THE CODES OF THE MUNICIPAL, THE CITY OF WICHITA OR SEDGWICK COUNTY. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN THE CERTIFICATE OF OCCUPANCY. THE CONTRACTOR IS RESPONSIBLE FOR CONFORMING AND COORDINATING ALL TECHNIQUES OF CONSTRUCTION. THIS APPROVAL IS SUBJECT TO PROVISIONS OF SECTION 107.4 OF THE INTERNATIONAL BUILDING CODE.

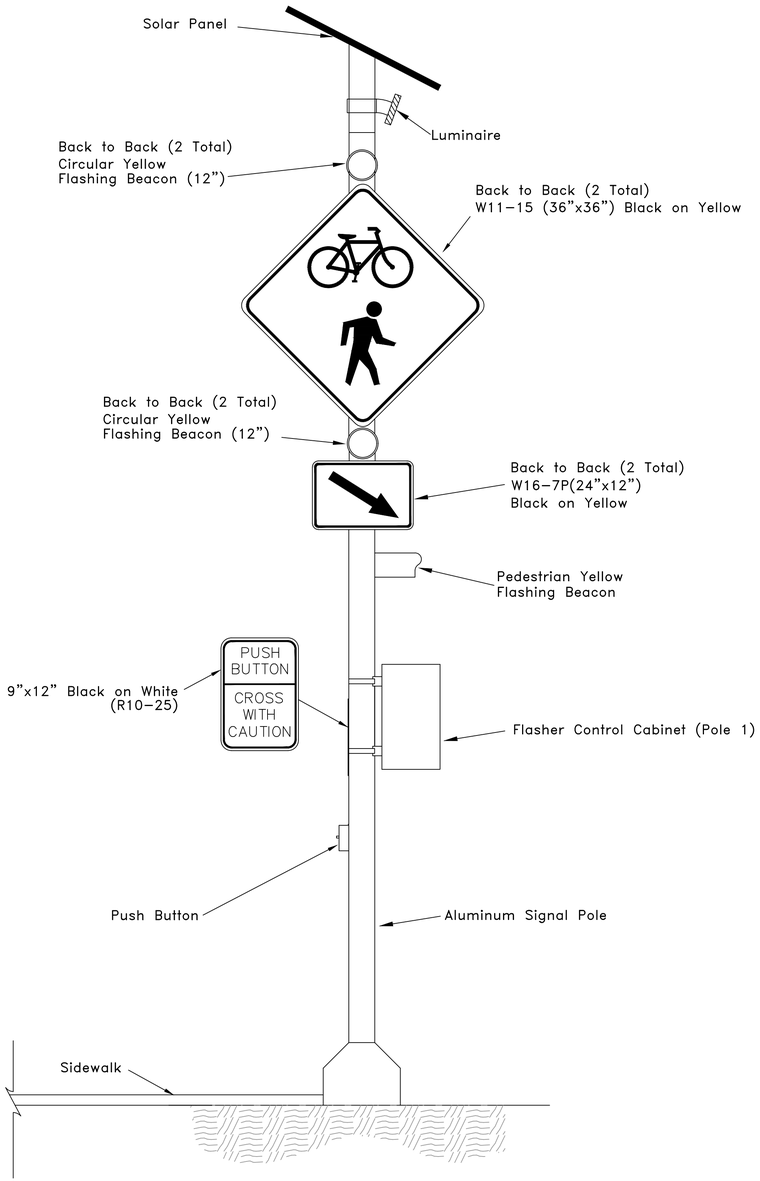
DATE: 4/14/2026 BY: Keri Jacobs

BILL OF MATERIALS

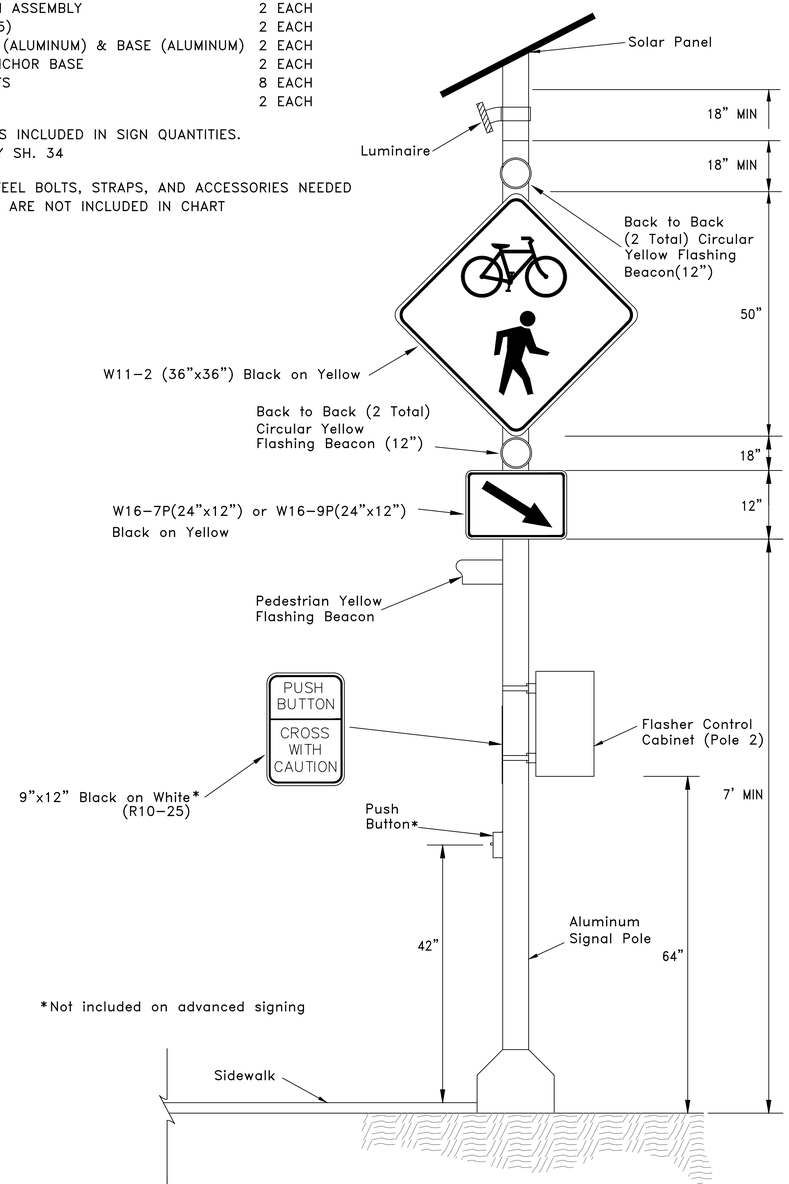
BEACON (YELLOW)	8 EACH
SOLAR PANEL	2 EACH
CONTROLLER & BATTERY	2 EACH
PUSH BUTTON ASSEMBLY	2 EACH
SIGN (R10-25)	2 EACH
POLE & CAP (ALUMINUM) & BASE (ALUMINUM)	2 EACH
CONCRETE ANCHOR BASE	2 EACH
ANCHOR BOLTS	8 EACH
LUMINAIRE	2 EACH

* TRAFFIC SIGNS INCLUDED IN SIGN QUANTITIES. SEE SUMMARY SH. 34

* STAINLESS STEEL BOLTS, STRAPS, AND ACCESSORIES NEEDED TO ASSEMBLE ARE NOT INCLUDED IN CHART



Typical Pole – ALUMINUM
Hoover Rd.



Typical Pole – ALUMINUM
Hoover Rd.

PEDESTRIAN CROSSING SIGNAL ASSEMBLY:

THE PEDESTRIAN BEACON ASSEMBLIES SHALL BE TAPCO BLINKERBEACON OR CARMANAH CIRCULAR CROSSWALK BEACON, OR APPROVED EQUAL. SIGN BASED ON TAPCO WITH PUSH BUTTON ACTIVATION. THE PED-TRIAN SIGNAL ASSEMBLY SHALL HAVE THE FOLLOWING FEATURES:

- SEVERE DUTY SOLAR PANEL/UL LISTED
- HIGH WIND & HAIL RESISTANT EQUIPMENT
- TOLERANCE TO LOCIALIZED SHADOWING
- HIGH STATIC LOADING CAPABILITY
- SOLID STATE CONTROLLER
- LIGHTING & TRANSIENT OVER VOLTAGE PROTECTION
- TEMPERATURE COMPENSATION
- HEAVY DUTY DEEP CYCLE BATTERY
- NON-SPILLABLE BATTERY BY KDOT DEFINITION
- POLYCARBONATE SOLAR PANEL SHIELDS, KDOT BREAK-AWAY BASE
- REMOTE ACTIVATION
- 36'x36' CROSSING SIGN (W11-2) and (W16-9p) INCLUDED IN SIGNING QUANTITIES.
- RADIO CONTROLLED, NO WIRING REQUIRED
- ALL CROSSING SIGNS ARE TO BE CONTROLLED FROM ONE CONTROLLER MOUNTED ON CROSSING POLE
- PROVIDE PROGRAMMABLE CONTROLLER WITH CROSSING POLE
- POLE TO BE ALUMINUM, MINIMUM OF 4 IN DIAMETER
- YELLOW FLASHING BEACON

NOTES:
THE HEIGHT OF THE PEDESTAL POLES WILL BE DETERMINED BY THE ACTUAL ASSEMBLED HEIGHT OF THE FLASHERS AND SIGN ASSEMBLY. THE DIMENSIONS SHOWN ARE APPROXIMATE. THE LOWEST FLASHER SHALL BE 7' MINIMUM ABOVE THE SIDEWALK OR GROUND, WHICHEVER IS APPROPRIATE.

PUSHBUTTON TO BE STANDARD 1" ADA STYLE UNITS, AS APPROVED BY THE CITY OF OTTAWA.

PEDESTRIAN SIGNAL SHALL BE BID AS "FLASHING BEACON SYSTEM (YELLOW)- LUMP SUM". ALL LABOR AND MATERIALS NEEDED FOR INSTALLATION, CONSTRUCTION AND OPERATION OF THE PEDESTRIAN SIGNAL, INCLUDING PUSH BUTTON SIGNS AND POLE ASSEMBLIES, SHALL BE SUBSIDIARY TO THIS BID ITEM.

WARNING SIGNS ARE INCLUDED IN SIGN QUANTITIES.

NO.	DATE:	REVISION	BY:	APP'D

DRAWN BY: JMD
APP'D BY: DWH

CFS ENGINEERS

DANIEL W. HOLLOWAY #15369 3-5-26 KANSAS PROFESSIONAL ENGINEER

ADAM PROHASKA LICENSED 31459 3-5-26 KANSAS PROFESSIONAL ENGINEER

CITY OF WICHITA

MULTI-USE TRAIL
CRYSTAL PRAIRIE LAKE PARK
PHASE I
482-11068 (R2000)(R5006), 472-2026-086248, 458-2025-085639
WICHITA, KS

TRAFFIC SIGNAL SPECIFICATIONS
PEDESTRIAN BEACON
DETAIL

DATE: Feb. 2026
SHEET: 30 of 104
PROJ.: 16-1006

J:\2016Proj\161006\2024 Trail\Ph 1\CADD\161006 DETAIL-PEDESTRIAN SIGNAL.dwg 3/05/2026 - 7:38am

STATE			SHEET NO.	TOTAL SHEETS
KANSAS			31	104

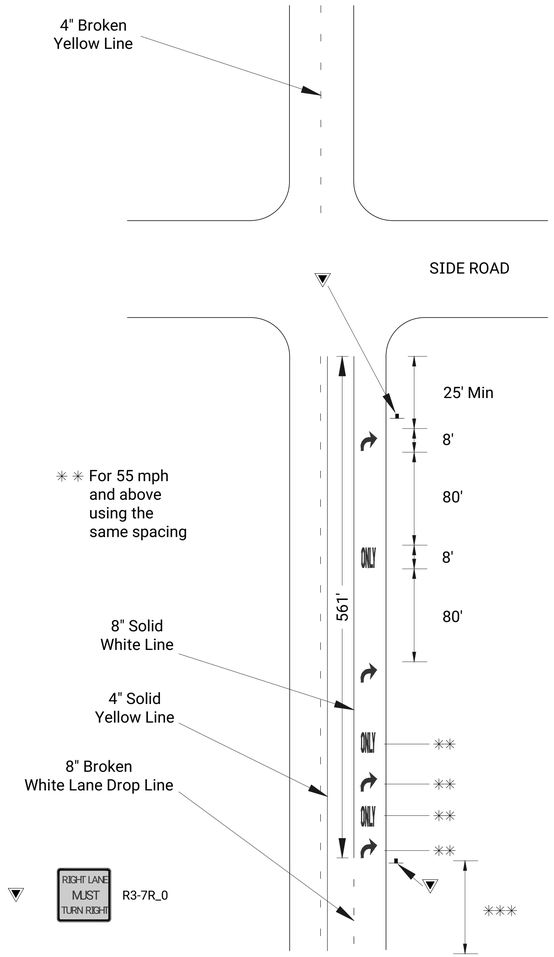
Wichita-Sedgwick County Metropolitan Area Building and Construction Department

REVISED TO CODE COMPLIANCE 2025

CORRECTIONS OR COMMENTS MADE ON THESE DRAWINGS AND THIS DOCUMENT DURING LDA REVIEW DO NOT RELIEVE CONTRACTOR FROM COMPLIANCE WITH ALL REQUIREMENTS OF THIS CODE OR THE MUNICIPAL CODE OF WICHITA OR SEDGWICK COUNTY. THE CONTRACTOR IS RESPONSIBLE FOR THE CONSTRUCTION OF THE PROJECT IN ACCORDANCE OF 120 CODE. THE CONTRACTOR IS RESPONSIBLE FOR CONFORMING AND COORDINATING ALL TECHNIQUES OF CONSTRUCTION. THIS APPROVAL IS SUBJECT TO PROVISIONS OF SECTION 108 OF THE INTERNATIONAL BUILDING CODE.

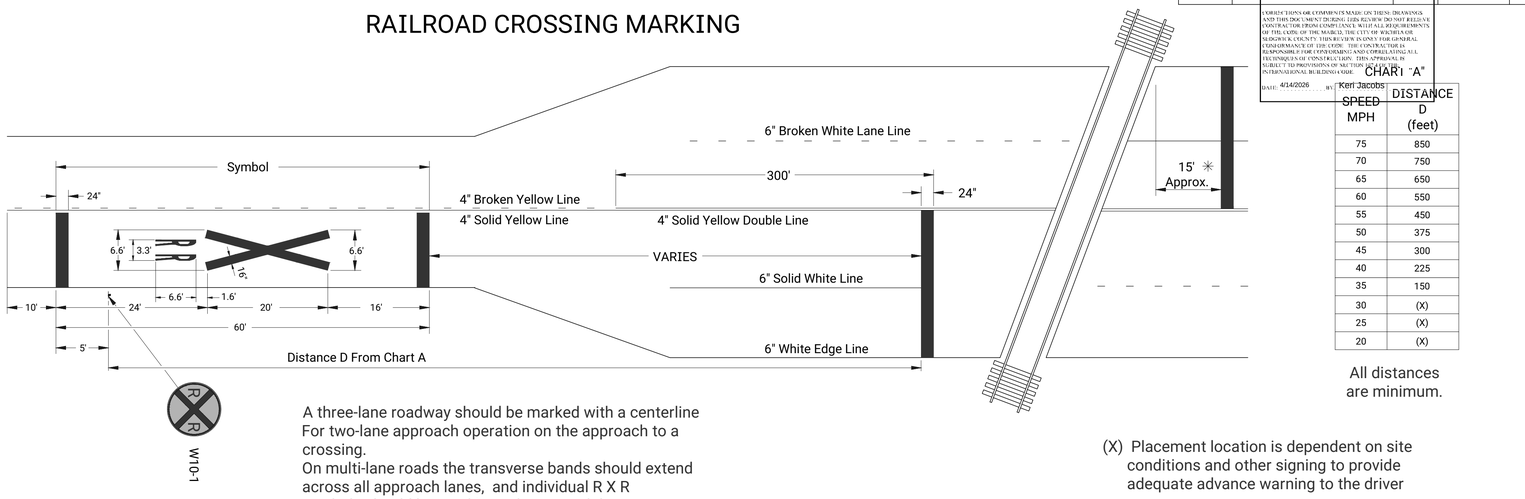
DATE: 4/14/2026 BY: Keri Jacobs

TYPICAL SIGNING AND MARKING FOR RIGHT LANE MUST TURN RIGHT



✳✳✳ The lane drop markings length is a minimum of 100' and a maximum of 250' prior to the 8"solid white line

RAILROAD CROSSING MARKING



A three-lane roadway should be marked with a centerline For two-lane approach operation on the approach to a crossing.
On multi-lane roads the transverse bands should extend across all approach lanes, and individual R X R symbols should be used in each approach lane.
Refer to standard alphabet for highway signs and markings for R X R symbols details.

✳Stop line 8' from near edge of gate or cantilever, if present.

NOTE:
On non I, US, and K routes, 4" edge lines may be installed.
6" edge lines are not required on non I, US, and K routes.

CHART "A"

SPEED MPH	DISTANCE D (feet)
75	850
70	750
65	650
60	550
55	450
50	375
45	300
40	225
35	150
30	(X)
25	(X)
20	(X)

All distances are minimum.

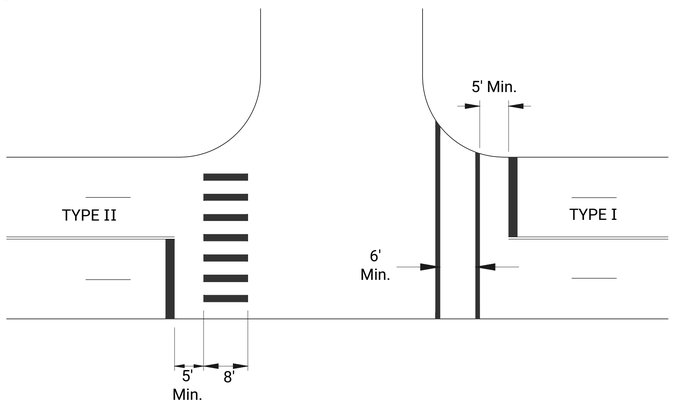
(X) Placement location is dependent on site conditions and other signing to provide adequate advance warning to the driver

TYPICAL CROSSWALKS

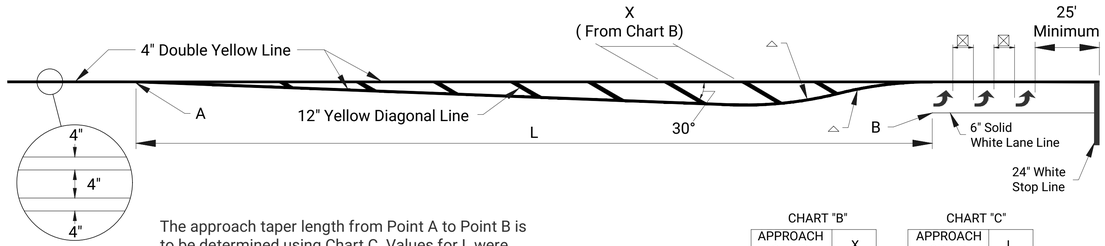
TYPE I: Crosswalk lines shall be 12" solid white lines. They shall be spaced a minimum of 6' apart from inside edge to inside edge.

TYPE II: These lines should be solid white 24" wide placed parallel to the direction of traffic flow. The line placement is determined by lane line, center line, and wheel path in such a manner as to minimize traffic wear. The crosswalk width should be not less than 8'. The transverse crosswalk lines may be added.

When required, stop lines shall be installed a minimum of 5' from crosswalks.



TYPICAL APPROACH TAPER DETAIL



The approach taper length from Point A to Point B is to be determined using Chart C. Values for L were calculated using the equations below and increased to the next higher 5 mph increment.

- SPEEDS < 45 MPH $L = \frac{W \times S^2}{60}$
- SPEEDS = 45 MPH $L = W \times S$

If arrows are used and unless otherwise specified the space between lines should be at least four times the height of the characters for low speed roads but not more than ten times the height of the characters, under any conditions.

For speeds less than or equal to 40 mph, R=150'.
for speeds greater than or equal to 45 mph, R=300'.

CHART "B"

APPROACH SPEED	X
20 MPH	20'
25 MPH	25'
30 MPH	30'
35 MPH	35'
40 MPH	40'
45 MPH	45'
50 MPH	50'
55 MPH	55'
60 MPH	60'
65 MPH	65'
70 MPH	70'

CHART "C"

APPROACH SPEED	L
20 MPH	80'
25 MPH	125'
30 MPH	180'
35 MPH	245'
40 MPH	320'
45 MPH	540'
50 MPH	600'
55 MPH	660'
60 MPH	720'
65 MPH	780'
70 MPH	840'

NO.	DATE	REVISIONS	BY	APP'D
03	05-25-12	Updated Chart B and Lane Drop Lines	B.A.H.	B.D.G.
02	10-20-06	RR Xing Symbol Changed from 18" to 16"	T.L.H.	B.D.G.
01	09-20-05	Added 4" Solid Yellow Double Line to RRxing	J.F.F.	B.D.G.

KANSAS DEPARTMENT OF TRANSPORTATION

TYPICAL MISCELLANEOUS PAVEMENT MARKING DETAIL SHEET

TE309

FHWA APPROVAL		07-26-05	APP'D.	Brian D. Gower	
DESIGNED	J.F.F.	DETAILED	J.F.F.	QUANTITIES	TRACED
DESIGN CK.	B.D.G.	DETAIL CK.	B.D.G.	QUAN.CK.	TRACE CK.

KDOT Graphics Certified 05-18-2022

Sh. No. 31

STATE		SHEET NO.	TOTAL SHEETS
KANSAS		32	104

Wichita-Sedgwick County Metropolitan Area Building and Construction Department

REVIEWED FOR CODE COMPLIANCE 2025

CORRECTIONS OR COMMENTS MADE ON THESE DRAWINGS AND THIS DOCUMENT DURING CODE REVIEW DO NOT RELIEVE CONTRACTOR FROM COMPLIANCE WITH ALL REQUIREMENTS OF THIS CODE OR THE MASCID, THE CITY OF WICHITA OR SEDGWICK COUNTY OR ANY OTHER LAWS OR REGULATIONS ENFORCED BY THE CITY OR COUNTY. THE CONTRACTOR IS RESPONSIBLE FOR CONFORMING AND COMPLICATING ALL TECHNIQUES OF CONSTRUCTION. THIS APPROVAL IS SUBJECT TO PROVISIONS OF SECTION 107.4 OF THE INTERNATIONAL BUILDING CODE.

DATE: 4/14/2026 BY: Keri Jacobs

SUMMARY OF PAVEMENT MARKINGS

LOCATION	6" Solid WHITE Edge Line	6" Broken WHITE Lane Line	6" Broken WHITE Lane Line (PCP)	6" Dotted WHITE Extension Line	6" Broken WHITE Lane Drop Line	6" Solid WHITE Lane Line	8" Broken WHITE Lane Drop Line	8" Solid WHITE Gore Line	8" Dotted WHITE Extension Line	12" Solid WHITE Diagonal Line	12" Solid WHITE Chevron Line	12" Solid WHITE Type I Crosswalk Line	24" Solid WHITE Type II Crosswalk Line	24" Solid WHITE Stop Line	4" Solid YELLOW Edge Line	4" Solid YELLOW Double Line	4" Solid YELLOW Line	4" Broken YELLOW Line	6" Solid YELLOW Edge Line	12" Solid YELLOW Diagonal Line
Sta. 10+45.00 to Sta. 11+42.00 (K-96 On-Ramp)													100							
Sta. 19+21.85 to Sta. 19+80.00 (K-96 Off-Ramp)													80	51						
Sta. 39+83.00 to Sta. 40+19.00 (Entrance Rd.)													60							
Sta. 50+00.00 to Sta. 51+00.85 (Kollmeyer St.)													150							
Sta. 103+18.00 to Sta. 103+42.00, 60' Rt. (Handicap Parking)																	150			
TOTALS													390	51			150			

SUMMARY OF WORD & SYMBOL MARKINGS

LOCATION							STOP	ONLY	X-ING	SCHOOL												
Sta. 103+18.00 to Sta. 103+42.00, 60' Rt.						2																
TOTALS						2																

RECAPITULATION OF QUANTITIES

ITEMS	TOTAL	UNITS
PAVEMENT MARKING (MULTI-COMPONENT)(WHITE)(4")		FT
PAVEMENT MARKING (MULTI-COMPONENT)(WHITE)(6")		FT
PAVEMENT MARKING (MULTI-COMPONENT)(WHITE)(8")		FT
PAVEMENT MARKING (MULTI-COMPONENT)(WHITE)(24")		FT
PAVEMENT MARKING (MULTI-COMPONENT)(YELLOW)(4")	150	FT
PAVEMENT MARKING (MULTI-COMPONENT)(YELLOW)(6")		FT
PAVEMENT MARKING (MULTI-COMPONENT)(YELLOW)(12")		FT
PAVEMENT MARKING (THERMOPLASTIC)(WHITE)(4")		FT
PAVEMENT MARKING (THERMOPLASTIC)(WHITE)(6")		FT
PAVEMENT MARKING (THERMOPLASTIC)(WHITE)(8")		FT
PAVEMENT MARKING (THERMOPLASTIC)(WHITE)(12")		FT
PAVEMENT MARKING (THERMOPLASTIC)(YELLOW)(4")		FT
PAVEMENT MARKING (THERMOPLASTIC)(YELLOW)(6")		FT
PAVEMENT MARKING (THERMOPLASTIC)(YELLOW)(12")		FT
PAVEMENT MARKING (EPOXY)(WHITE)(4")		FT
PAVEMENT MARKING (EPOXY)(WHITE)(6")		FT
PAVEMENT MARKING (EPOXY)(WHITE)(8")		FT
PAVEMENT MARKING (EPOXY)(WHITE)(12')		FT
PAVEMENT MARKING (EPOXY)(YELLOW)(4')		FT
PAVEMENT MARKING (EPOXY)(YELLOW)(6")		FT
PAVEMENT MARKING (EPOXY)(YELLOW)(12")		FT
PAVEMENT MARKING (INTERSECTION GRADE)(WHITE)(12")		FT
PAVEMENT MARKING (INTERSECTION GRADE)(WHITE)(24")	441	FT
PAVEMENT MARKING (INTERSECTION GRADE)(YELLOW)(12")		FT
PAVEMENT MARKING SYMBOL (INTERSECTION GRADE)(WHITE)(HANDICAP)	2	EACH
PAVEMENT MARKING SYMBOL (INTERSECTION GRADE)(WHITE)( )		EACH
PAVEMENT MARKING SYMBOL (INTERSECTION GRADE)(WHITE)( )		EACH
PAVEMENT MARKING SYMBOL (INTERSECTION GRADE)(WHITE)( )		EACH
PAVEMENT MARKING SYMBOL (INTERSECTION GRADE)(WHITE)( )		EACH
PAVEMENT MARKING SYMBOL (INTERSECTION GRADE)(US-SHIELD)( )		EACH
PAVEMENT MARKING SYMBOL (INTERSECTION GRADE)(K-SHIELD)( )		EACH
PAVEMENT MARKING SYMBOL (INTERSECTION GRADE)(I-SHIELD)( )		EACH
PAVEMENT MARKING (PATTERNED COLD PLASTIC)(WHITE)(6")		FT
PAVEMENT MARKING (PATTERNED COLD PLASTIC)(WHITE)(8")		FT
PAVEMENT MARKING (PATTERNED COLD PLASTIC)(WHITE)(12")		FT
PAVEMENT MARKING REMOVAL		FT

NOTE:
For specific pavement marking details and dimensions see plan sheets.

All totals reflect actual quantity of pavement marking materials required.

Prior to commencement of pavement marking work the Engineer will establish the limits for "no passing" zones. These limits shall be used for the location of "no passing" lines and for the computation of actual marking quantities for this line type.

Words & symbols shall conform to the latest edition of "Standard Alphabets for Highway Signs and Pavement Markings" printed by the U.S. Department of Transportation, Federal Highway Administration.

NO.	DATE	REVISIONS	BY	APP'D
02	05-25-12	Added Line Types, Symbols, and Shields	B.A.H.	B.D.G.
01	07-26-05	New FHWA Approval Date	J.F.F.	B.D.G.

KANSAS DEPARTMENT OF TRANSPORTATION

SUMMARY AND RECAPITULATION OF PAVEMENT MARKING QUANTITIES

TE311

FHWA APPROVAL		05-25-12	APP'D.		Brian D. Gower
DESIGNED	J.F.F.	DETAILED	J.F.F.	QUANTITIES	TRACED
DESIGN CK.	B.D.G.	DETAIL CK.	B.D.G.	QUAN.CK.	TRACE CK.

KDOT Graphics Certified 05-18-2022

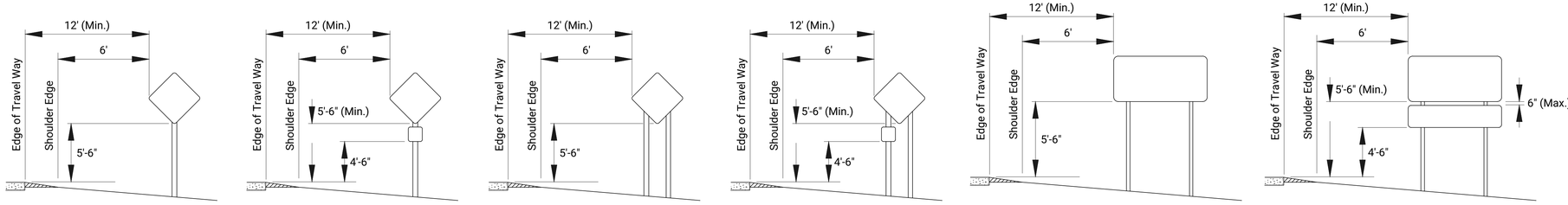
STATE			SHEET NO.	TOTAL SHEETS
KANSAS			33	104

Wichita-Sedgwick County Metropolitan Area Building and Construction Department

REVISED TO CODE COMPLIANCE 2025

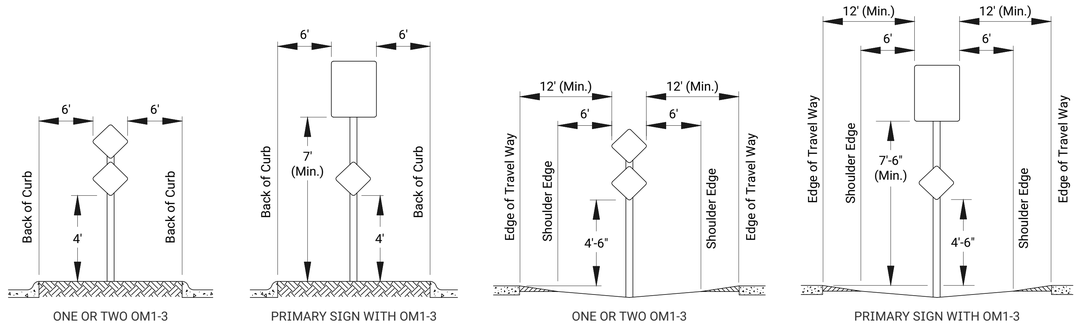
CORRECTIONS OR COMMENTS MADE ON THESE DRAWINGS AND THIS DOCUMENT DURING LEDA REVIEW DO NOT RELIEVE CONTRACTOR FROM COMPLIANCE WITH ALL REQUIREMENTS OF THIS CODE OR THE MARCH, THE CITY OF WICHITA OR SEDGWICK COUNTY, KANSAS, AND ALL OTHER APPLICABLE ORDINANCES OF THIS CITY/ COUNTY. THE CONTRACTOR IS RESPONSIBLE FOR CONFORMING AND COORDINATING ALL TECHNIQUES OF CONSTRUCTION. THIS APPROVAL IS SUBJECT TO PROVISIONS OF SECTION 107.4 OF THE INTERNATIONAL BUILDING CODE.

DATE: 4/14/2026 BY: Keri Jacobs



ONE POST | ONE POST WITH SUPPLEMENTAL SIGN | TWO POSTS | TWO POSTS WITH SUPPLEMENTAL SIGN | MULTIPLE POSTS | MULTIPLE POSTS WITH SUPPLEMENTAL SIGN

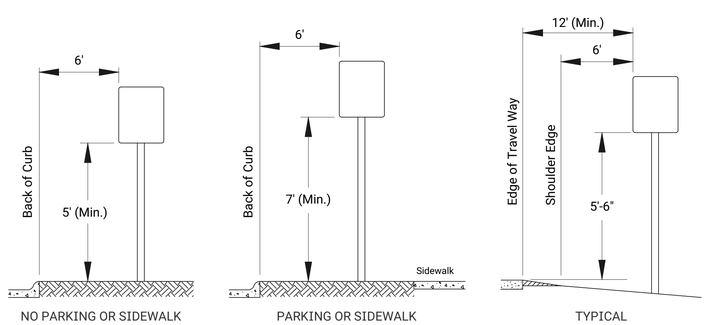
CONVENTIONAL HIGHWAY AND SIDE ROADS



ONE OR TWO OM1-3 | PRIMARY SIGN WITH OM1-3 | ONE OR TWO OM1-3 | PRIMARY SIGN WITH OM1-3

RAISED | DEPRESSED

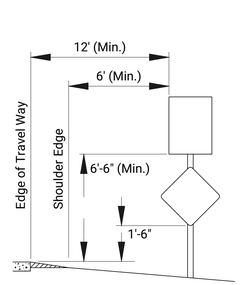
MEDIANS AND ISLANDS



NO PARKING OR SIDEWALK | PARKING OR SIDEWALK | TYPICAL

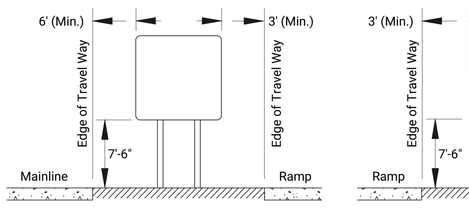
CURB | NO CURB

URBAN ROADWAYS

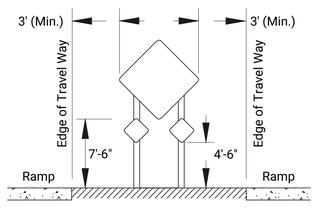


TYPICAL

ADOPT A HIGHWAY

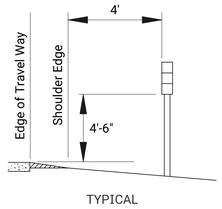


MAINLINE/RAMP



RAMP/RAMP

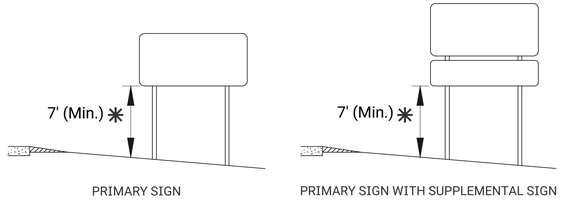
HIGHWAY GORES



TYPICAL

Reference Marker Post: 2 Lb/Ft "U" Post

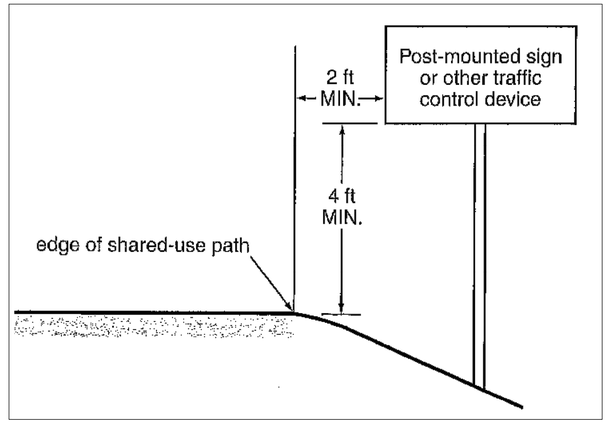
REFERENCE MARKERS



PRIMARY SIGN | PRIMARY SIGN WITH SUPPLEMENTAL SIGN

✳NOTE: Measured from the nearest point between the sign and the groundline.

GROUND CLEARANCE FOR STEEL BEAM POSTS



NOTES

The "Edge of Travel Way" is the edge line or the edge of the driving lane.

The outer edge of the sign shall not extend beyond the right of way line.

A minimum lateral clearance of 6' from pavement edge may be used where lateral offsets are limited.

In business, commercial, or residential districts where with limited lateral offsets, a minimum lateral clearance of 2' with a 7'-6" minimum mounting height may be used.

When signs are behind guardrail, the near edge of the sign shall not extend beyond the back side of the guardrail and the nearest sign post shall be a minimum of 5' from the face of the guardrail. Shoulder mounted signs shall not be located between 100' in advance of and 50' beyond the nose of the guardrail.

When the median or island is too narrow for the typical lateral placement, the sign may be placed a minimum of 2' from the back of the curb. In no case shall the sign edge extend beyond the back edge of the curb.

The gore sign shall be installed in the paved gore area. The edges of the gore sign shall not extend beyond the shoulder edge. The minimum distance from the centerline of the posts to the back of the paved gore area is 2'.

Signs may be moved laterally or longitudinally if it will improve visibility of the sign or other signs or if it will protect the sign more. The maximum allowable longitudinal adjustment is 100', with the exception of the reference marker which is 50'.

The minimum spacing between signs, excluding reference markers is 100'.

NO.	DATE	REVISIONS	BY	APP'D

KANSAS DEPARTMENT OF TRANSPORTATION

MOUNTING HEIGHT & LATERAL OFFSET FOR CONVENTIONAL HIGHWAYS, SIDE ROADS, MEDIANS, ISLANDS, GORES, AND URBAN ROADWAYS

~~TE407~~ 10-01-19

FHWA APPROVAL			10-01-19	APP'D.		Eric W. Nichol	
DESIGNED	D.D.G.	DETAILED	D.D.G.	QUANTITIES		TRACED	
DESIGN CK.	E.W.N.	DETAIL CK.	E.W.N.	QUAN.CK.		TRACE CK.	

KDOT Graphics Certified 05-18-2022

STATE		PROJECT NO.	SHEET NO.	TOTAL SHEETS
KANSAS		130-67106	34	104

Wichita-Sedgwick County Metropolitan Area Building and Construction Department

REVIEWED FOR CODE COMPLIANCE 2018

CORRECTIONS OR COMMENTS MADE ON THESE DRAWINGS AND THIS DOCUMENT DURING THIS REVIEW DO NOT RELIEVE CONTRACTOR FROM COMPLYING WITH ALL REQUIREMENTS OF THIS CODE OR THE MASCD, THE CITY OF WICHITA OR SEDGWICK COUNTY. IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR OF THE CONSTRUCTION TO BE RESPONSIBLE FOR CONFORMING AND OPERATING ALL TECHNIQUES OF CONSTRUCTION. THIS APPROVAL IS SUBJECT TO THE PROVISIONS OF SECTION 107.4 OF THE INTERNATIONAL BUILDING CODE.

DATE: 4/14/2026 BY: Keri Jacobs

QUANTITIES SHEET

SIGNS, POSTS, & FOOTINGS TO BE INSTALLED ON PROJECT

PLAN SHEET NUMBER	PLAN STATION NUMBER	CENTERLINE LOCATION / INSTALL POSITION	SIGN DESIGNATION	SIGN SIZE	SIGN LAYOUT SHEET NUMBER	TYPE OF SIGN FABRICATION			PERFORATED SQUARE STEEL TUBE (PSST) POSTS										3I2.25 ALUMINUM BEAM	CONCRETE FOOTINGS			
									1 3/4"			2"			2 1/4"		2 1/2"			STEEL BEAM POST			
																				A36		A572 (ALT)	
						FLAT SHEET	REINFORCED PANEL	OVERLAY	POST	FOOTING	BRACKET	POST	FOOTING	BRACKET	POST	FOOTING	POST	FOOTING		24" DIA.	30" DIA.	24" DIA.	30" DIA.
27	Sta. 10+18	13' Rt.	R1-1	18"x18"		1.86			7'	1													
27			R5-3	18"x18"		2.25																	
27	Sta. 10+41	14' Rt.	W11-15	36"x36"		9.0									13'	1							
27			W16-7P	24"x12"		2.0																	
27	Sta. 10+97	46' Lt.	W11-15	36"x36"		9.0									13'	1							
27			W16-7P	24"x12"		2.0																	
27	Sta. 11+42	14' Rt.	W11-15	36"x36"		9.0									13'	1							
27			W16-7P	24"x12"		2.0																	
27	Sta. 11+72	13' Rt.	R1-1	18"x18"		1.86			7'	1													
27			R5-3	18"x18"		2.25																	
27	Sta. 19+05	13' Rt.	R5-3	18"x18"		2.25			7'	1													
27	Sta. 20+07	13' Rt.	R5-3	18"x18"		2.25			7'	1													
28	Sta. 50+47	1' Lt.	W11-15	36"x36"		9.0																	
28			W16-7P	24"x12"		2.0						Mount on Signal Pole											
28			W11-15	36"x36"		9.0																	
28			R10-25	9"x12"		0.75						Mount on Signal Pole											
28	Sta. 50+63	Lt.	W11-15	36"x36"		9.0									13'	1							
28			W16-9P	24"x12"		2.0																	
28	Sta. 50+84	13' Rt.	R4-7	24"x30"		5.0									10'	1							
28			OM1-3	18"x18"		2.25																	
28	Sta. 50+84	7' Lt.	R4-7	24"x30"		5.0									10'	1							
28			OM1-3	18"x18"		2.25																	
28	Sta. 51+06	Rt.	W11-15	36"x36"		9.0									13'	1							
28			W16-9P	24"x12"		2.0						Mount on Signal Pole											
28	Sta. 51+12	11' Rt.	W11-15	36"x36"		9.0																	
28			W16-7P	24"x12"		2.0						Mount on Signal Pole											
28			W11-15	36"x36"		9.0																	
28			R10-25	9"x12"		0.75																	
28	Sta. 51+92	16' Rt.	R1-1	18"x18"		1.86			7'	1													
29	Sta. 39+71	13' Rt.	R1-1	18"x18"		1.86			7'	1													
29			R5-3	18"x18"		2.25																	
29	Sta. 39+78	5' Lt.	W11-15	36"x36"		9.0									13'	1							
29			W16-7P	24"x12"		2.0																	
29	Sta. 40+24	14' Rt.	W11-15	36"x36"		9.0									13'	1							
29			W16-7P	24"x12"		2.0																	
29	Sta. 40+30	3' Lt.	R1-1	18"x18"		1.86			7'	1													
29			R5-3	18"x18"		2.25																	
29	Sta. 40+92	0' Lt.	OM4-3	18"x18"		2.25			7'	1													
29	Sta. 40+92	6' Lt.	OM4-3	18"x18"		2.25			7'	1													
29	Sta. 40+92	6' Rt.	OM4-3	18"x18"		2.25			7'	1													
29	Sta. 100+27	33' Lt.	R1-1	30"x30"		5.18									10'	1							
29	Sta. 100+43	0' Rt.	R4-7	24"x30"		5.0									10'	1							
29			OM1-3	18"x18"		2.25																	
29	Sta. 101+23	0' Lt.	R4-7	24"x30"		5.0									10'	1							
29			OM1-3	18"x18"		2.25																	
29	Sta. 103+17	58' Rt.	D9-6	12"x18"		1.5			7'	1													
29	Sta. 103+17	78' Rt.	D9-6	12"x18"		1.5			7'	1													

CENTERLINE LOCATION
Lt. - Left of Centerline
Rt. - Right of Centerline

SUMMARY OF QUANTITIES

REMOVAL AND RESETTING OF SIGNS ON PROJECT

EXISTING PLAN STATION NUMBER	NEW PLAN STATION NUMBER	SIGN TYPE	SIGN SIZE	POST SIZE		FOOTING TYPE
				TYPE	LENGTH	
Sta. 11+98, 7' Rt.	Sta.11+98, 15' Rt.	W12-2	36"x36"	4"X6" Wood	20'	18" Dia.

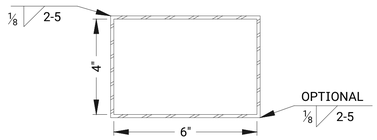
BID ITEMS	APPROXIMATE QUANTITIES	UNITS
SIGN (REMOVE AND RESET)	1	EACH
SIGN (FLAT SHEET) (HIGH PERFORMANCE)	185.23	SQUARE FOOT
SIGN (REINFORCED PANEL) (HIGH PERFORMANCE)		SQUARE FOOT
SIGN (OVERLAY) (HIGH PERFORMANCE)		SQUARE FOOT
SIGN POST (4" x 6" WOOD) (FLAT SHEET SIGN)	20	LINEAR FOOT
SIGN POST (4" x 6" WOOD) (REINFORCED PANEL SIGN)		LINEAR FOOT
SIGN POST (2 LB/FT "U" STEEL)		LINEAR FOOT
SIGN POST (3 LB/FT "U" STEEL)		LINEAR FOOT
SIGN POST (1-3/4" PERFORATED SQUARE STEEL TUBE)	84	LINEAR FOOT
SIGN POST (2" PERFORATED SQUARE STEEL TUBE)		LINEAR FOOT
SIGN POST (2-1/4" PERFORATED SQUARE STEEL TUBE)	141	LINEAR FOOT
SIGN POST (2-1/2" PERFORATED SQUARE STEEL TUBE)		LINEAR FOOT
SIGN POST (4" X 6" STRUCTURAL STEEL)		LINEAR FOOT
SIGN POST (3 I 2.25 ALUMINUM)		LINEAR FOOT
SIGN POST FOOTING (24" Dia. CONCRETE)(STEEL BEAM POST)		LINEAR FOOT
SIGN POST FOOTING (30" Dia. CONCRETE)(STEEL BEAM POST)		LINEAR FOOT
SIGN POST FOOTING (18" Dia. CONCRETE)(WOOD POST)	3	LINEAR FOOT
SIGN POST FOOTING (1-3/4" PERFORATED SQUARE STEEL TUBE)	12	EACH
SIGN POST FOOTING (2" PERFORATED SQUARE STEEL TUBE)		EACH
SIGN POST FOOTING (2-1/4" PERFORATED SQUARE STEEL TUBE)	12	EACH
SIGN POST FOOTING (2-1/2" PERFORATED SQUARE STEEL TUBE)		EACH

NO.	DATE	REVISIONS	BY	APP'D
02	10-01-19	Added Tapered Tube. Removed Couplers.	D.D.G.	E.W.N.
01	07-23-10	Added Coupler and Coupler/Footing Quantity	D.D.G.	D.B.

FHWA APPROVAL	10-01-19	APP'D.	Steven A. Buckley
DESIGNED D.D.G.	DETAILED K.S.	QUANTITIES	TRACED D.B.
DESIGN CK. S.A.B.	DETAIL CK. D.D.G.	QUAN.CK.	TRACE CK.

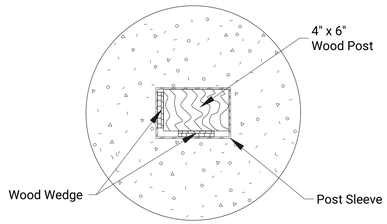
~~TE430~~

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	26-TE-0511-01	2025	34.001	104

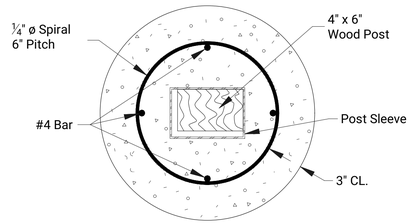


NOTE: Dimensions are to inside of post sleeve.

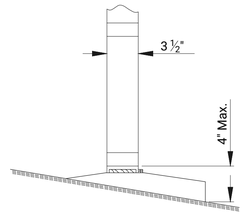
POST SLEEVE



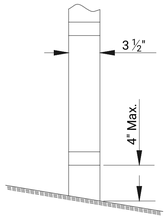
SECTION A-A



SECTION B-B



FRONT ELEVATION
CONCRETE FOOTING



FRONT ELEVATION
SOIL

NOTE TO THE ENGINEER:
The intent of the "AASHTO Roadside Design Guide" and these plans is to have a 4" or less projection above the finished ground line after impact.

BREAKAWAY CLEARANCE

GENERAL NOTES

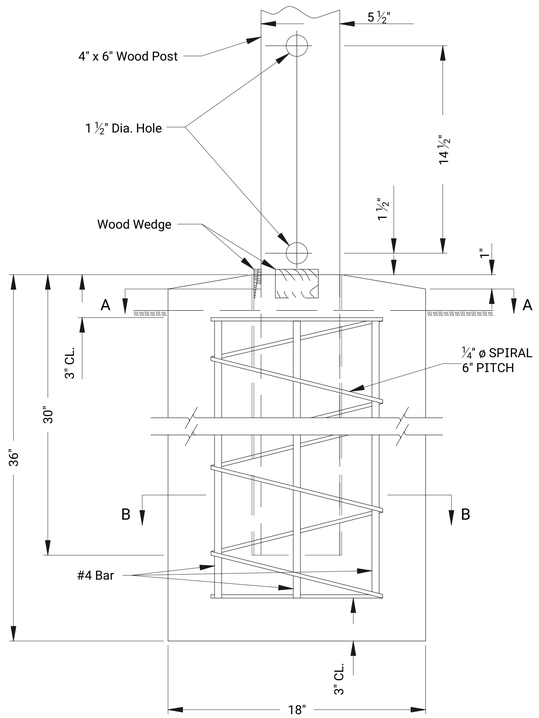
The post sleeve shall be formed from 10 gauge sheet steel to meet the requirements of ASTM A653 and zinc coated to meet the requirements of coating designation A123. If galvanized sheet steel is used, no other galvanization is required. It is permissible to close the bottom of the sleeve with a metal plate. Basis of acceptance shall be visual inspection of the finished sleeve and determination of zinc thickness by magnetic gage.

All sign mounting holes in the wood posts shall be drilled prior to treating.

Breakaway holes, field drilled sign mounting holes, and field cuts shall be treated in accordance with the preservative treatment specifications.

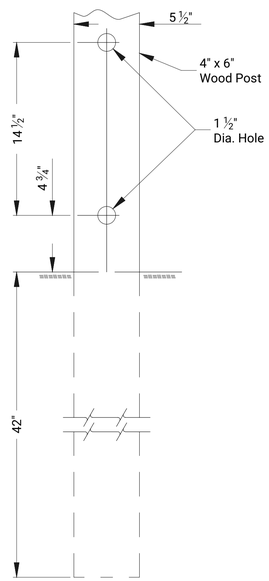
Prior to sealing the opening between the wood post and the top of the concrete footing, secure the post by placing 3" wide by 2" long wood wedges into the opening on two adjacent sides of the post. The wedges are be flush with up to a maximum of ⅜" sticking up above the top of the footing.

Commercial grade concrete may be substituted for sign support footings.



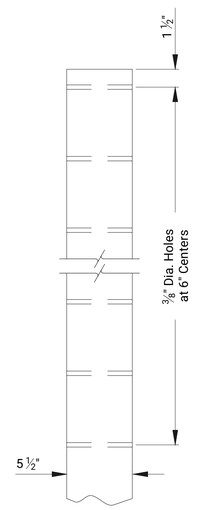
SIDE ELEVATION

WOOD POST IN CONCRETE FOOTING



SIDE ELEVATION

WOOD POST IN SOIL



SIGN POST

SIGN MOUNTING HOLES

All dimensions in inches unless otherwise noted.

NO.	DATE	REVISIONS	BY	APP'D
01	10-01-19	Change details and note	D.D.G.	E.W.N.

KANSAS DEPARTMENT OF TRANSPORTATION

DETAILS FOR WOOD POSTS

TE460 07-01-03

FHWA APPROVAL			10-01-19	APP'D.	Steven A. Buckley
DESIGNED	D.D.G.	DETAILED	A.A.D.	QUANTITIES	TRACED
DESIGN CK.	S.A.B.	DETAIL CK.	D.D.G.	QUAN.CK.	TRACE CK.

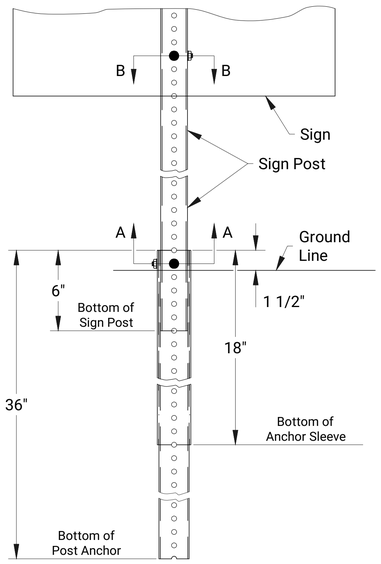
KDOT Graphics Certified 05-26-2022

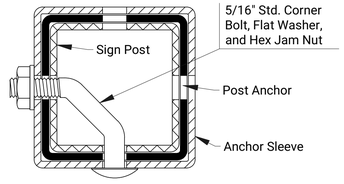
Sh. No. 34.0

STATE		Wichita-Sedgwick County Metropolitan Area Building and Construction Department	SHEET NO.	TOTAL SHEETS
KANSAS		REVISED TO IBC CODE COMPLIANCE 2024	35	104

CORRECTIONS OR COMMENTS MADE ON THESE DRAWINGS AND THIS DOCUMENT DURING LDA REVIEW DO NOT RELIEVE CONTRACTOR FROM COMPLIANCE WITH ALL REQUIREMENTS OF THIS CODE OR THE MARCED, THE CITY OF WICHITA OR SEDGWICK COUNTY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONFORMING AND COORDINATING ALL TECHNIQUES OF CONSTRUCTION. THIS APPROVAL IS SUBJECT TO PROVISIONS OF SECTION 107.4 OF THE INTERNATIONAL BUILDING CODE.

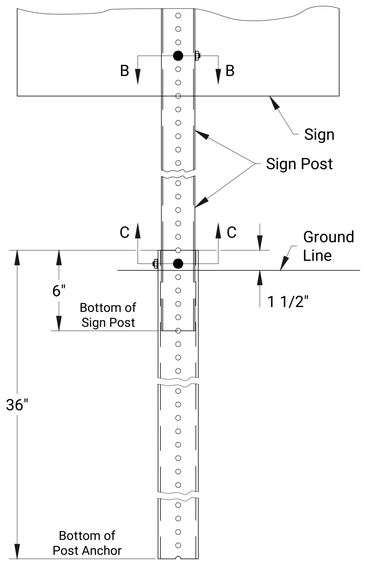
DATE: 4/14/2026 BY: Keri Jacobs

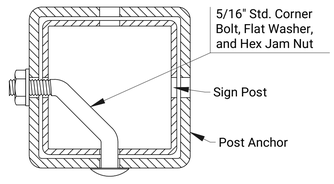




SECTION A-A

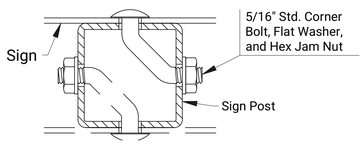
1 ¾", 2", OR 2 ¼" PSST SIGN POST





SECTION C-C

2 ½" PSST SIGN POST



SECTION B-B

MATERIALS TABLE FOR SIGN POST AND FOOTING		
SIGN POST 12 GA. OR 14 GA.	FOOTING	
	POST ANCHOR	ANCHOR SLEEVE
1 ¾" X 1 ¾"	2" X 2" X 12 GA.	2 ¼" X 2 ¼" X 12 GA.
2" X 2"	2 ¼" X 2 ¼" X 12 GA.	2 ½" X 2 ½" X 12 GA.
2 ¼" X 2 ¼"	2 ½" X 2 ½" X 12 GA.	3" X 3" X 7 GA.
2 ½" X 2 ½"	3" X 3" X 7 GA.	Not Required

NOTE: 14 ga. posts must meet a certified minimum yield strength of 60,000 p.s.i.

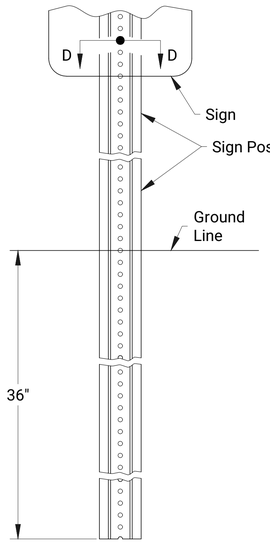
INSTALLATION PROCEDURES

1. Plumb and drive post anchor into the ground 18", if anchor sleeve is required, or to the specified height above the ground line.

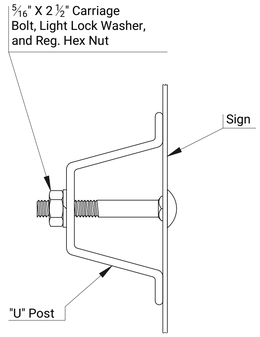
2. Install anchor sleeve (if required) on the post anchor and align the first holes above the ground line. Plumb and drive post anchor with anchor sleeve into the ground to the specified height above the ground line.

3. Install sign post into the post anchor.

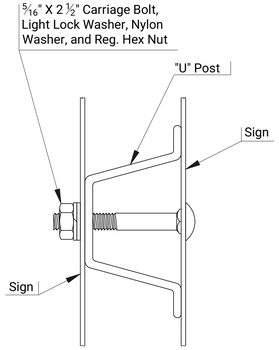
PERFORATED SQUARE STEEL TUBE POST (PSST)



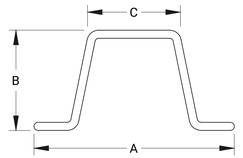
TYPICAL



SECTION D-D
(TYPICAL)



SECTION D-D
(BACK TO BACK)



DIM.	2 LBS/FT	3 LBS/FT
A	3 1/8 "	3 1/2 "
B	1 17/32 "	1 3/4 "
C	1 1/4 "	1 5/8 "

(Dimensions are nominal)

"U" POST

STEEL "U" POST

NO.	DATE	REVISIONS	BY	APP'D

KANSAS DEPARTMENT OF TRANSPORTATION

DETAILS FOR PERFORATED SQUARE STEEL TUBE POSTS (PSST) AND STEEL "U" POSTS

TE466 10-01-19

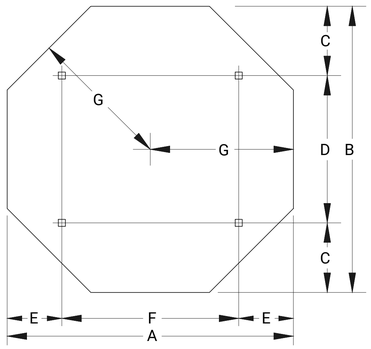
FHWA APPROVAL		10-01-19	APP'D.		Eric W.Nichol		
DESIGNED	D.D.G.	DETAILED	D.D.G.	QUANTITIES		TRACED	
DESIGN CK.	E.W.N.	DETAIL CK.	E.W.N.	QUAN.CK.		TRACE CK.	

KDOT Graphics Certified 05-18-2022

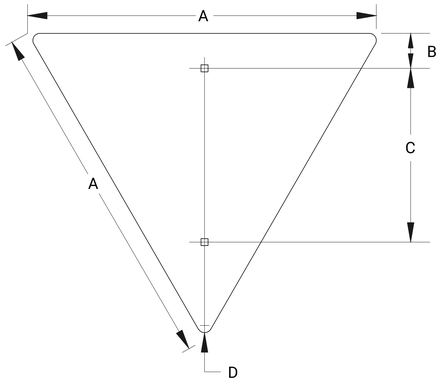
STATE		Wichita-Sedgwick County Metropolitan Area Building and Construction Department	SHEET NO.	TOTAL SHEETS
KANSAS		REVISED TO MEET CODE COMPLIANCE 2026	36	104

CORRECTIONS OR COMMENTS MADE ON THESE DRAWINGS AND THIS DOCUMENT DURING LEDA REVIEW DO NOT RELIEVE CONTRACTOR FROM COMPLIANCE WITH ALL REQUIREMENTS OF THIS CODE OF THE MCBCD, THE CITY OF WICHITA OR SEDGWICK COUNTY. THE CONTRACTOR IS RESPONSIBLE FOR THE CONFORMANCE OF THE CONSTRUCTION TO THE STANDARDS OF THE CODES. THE CONSTRUCTION IS RESPONSIBLE FOR CONFORMING AND OPERATING ALL TECHNIQUES OF CONSTRUCTION. THIS APPROVAL IS SUBJECT TO PROVISIONS OF SECTION 107.4 OF THE INTERNATIONAL BUILDING CODE.

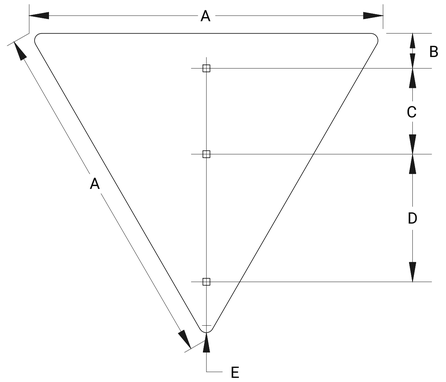
DATE: 4/14/2026 BY: Keri Jacobs



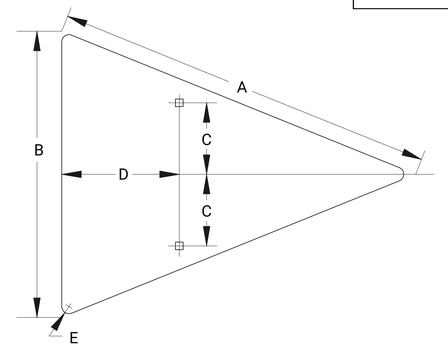
SIGN SIZE	A	B	C	D	E	F	G	T	AREA
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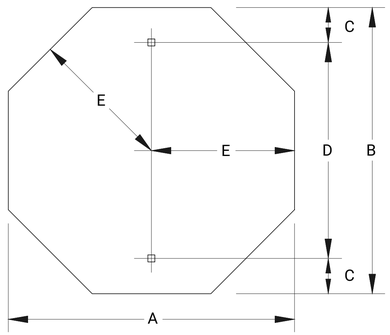
SIGN SIZE	A	B	C	D	T	AREA
36 X 36	36	3	18	2	0.080	3.90



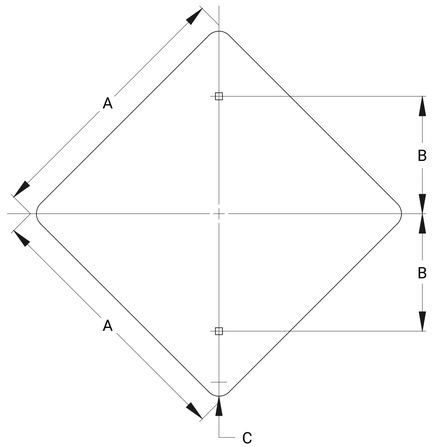
SIGN SIZE	A	B	C	D	E	T	AREA
48 X 48	48	3	12	18	3	0.080	6.93
60 X 60	60	3	18	18	4	0.100	10.83



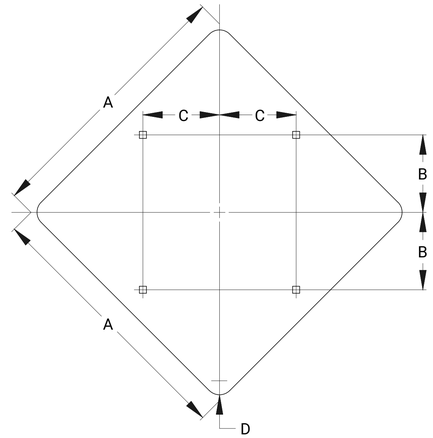
SIGN SIZE	A	B	C	D	E	T	AREA
48 X 36	48	36	9	14 3/4	2 1/4	0.125	5.56



SIGN SIZE	A	B	C	D	E	T	AREA
18 X 18	18	18	3	12	9	0.080	2.25
30 X 30	30	30	3	24	15	0.080	5.18
36 X 36	36	36	6	24	18	0.080	7.46



SIGN SIZE	A	B	C	T	AREA
18 X 18	18	6	1 1/2	0.080	2.25
24 X 24	24	12	1 1/2	0.080	4.00
30 X 30	30	12	1 7/8	0.080	6.25
(1) 36 X 36	36	18	2 1/4	0.080	9.00



SIGN SIZE	A	B	C	D	T	AREA
48 X 48	48	12	15	3	0.100	16.00

NOTE:
All holes are 3/8 " square unless otherwise noted.

The dimension "t" is the thickness of the aluminum blank.

(1) Center hole is required.

All dimensions are in inches.

NO.	DATE	REVISIONS	BY	APP'D
01	10-01-19	Update sign blank details and dimensions	D.D.G.	E.W.N.

KANSAS DEPARTMENT OF TRANSPORTATION

SIGN BLANK DETAILS FOR FLAT SHEET SIGNS

~~TE503~~ 07-01-03

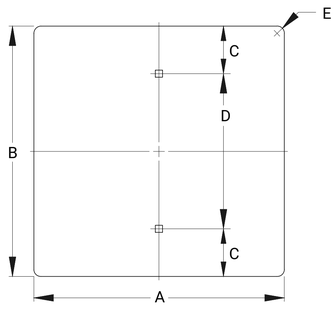
FHWA APPROVAL		10-01-19	APP'D.		Steven A. Buckley
DESIGNED	D.D.G.	DETAILED A.A.D.	QUANTITIES		TRACED
DESIGN CK.	S.A.B.	DETAIL CK. D.D.G.	QUAN.CK.		TRACE CK.

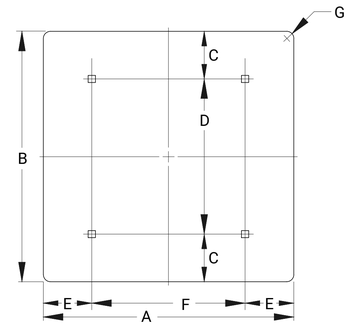
KDOT Graphics Certified 05-18-2022

STATE		Wichita-Sedgwick County Metropolitan Area Building and Construction Department	SHEET NO.	TOTAL SHEETS
KANSAS		REVISED TO IBC CODE COMPLIANCE 2024	37	104

CORRECTIONS OR COMMENTS MADE ON THESE DRAWINGS AND THIS DOCUMENT DURING LEDA REVIEW DO NOT RELIEVE CONTRACTOR FROM COMPLIANCE WITH ALL REQUIREMENTS OF THIS CODE OR THE MARCED, THE CITY OF WICHITA OR SEDGWICK COUNTY. THE CONTRACTOR IS RESPONSIBLE FOR THE CONSTRUCTION OF THE STRUCTURE IN SUBSTANTIAL CONFORMANCE OF THE CODE. THE CONSTRUCTOR IS RESPONSIBLE FOR CONFORMING AND COORDINATING ALL TECHNIQUES OF CONSTRUCTION. THIS APPROVAL IS SUBJECT TO PROVISIONS OF SECTION 107.4 OF THE INTERNATIONAL BUILDING CODE.

DATE: 4/14/2026 BY: Keri Jacobs





	SIGN SIZE	A	B	C	D	E	T	AREA
(1)	3 X 8	3	8	1	6	3/8	0.040	0.17
(1)	6 X 12	6	12	3	6	3/8	0.063	0.50
	12 X 6	12	6	1 1/2	3	3/4	0.063	0.50
	12 X 9	12	9	1 1/2	6	1 1/2	0.063	0.75
	12 X 18	12	18	3	12	1 1/2	0.063	1.50
	12 X 24	12	24	3	18	1 1/2	0.080	2.00
	12 X 36	12	36	6	24	1 1/2	0.080	3.00
	12 X 48	12	48	6	36	1 1/2	0.080	4.00
	18 X 6	18	6	1 1/2	3	1 1/2	0.063	0.75
	18 X 18	18	18	3	12	1 1/2	0.063	2.25
	18 X 30	18	24	3	24	1 1/2	0.080	3.75
	18 X 36	18	24	6	24	1 1/2	0.080	4.50
	18 X 42	18	24	6	30	1 1/2	0.080	5.25
	18 X 48	18	24	6	36	1 1/2	0.080	6.00
	21 X 15	21	15	1 1/2	12	1 1/2	0.080	2.19
	24 X 6	24	6	1 1/2	3	1 1/2	0.080	1.00
	24 X 12	24	12	3	6	1 1/2	0.080	2.00
	24 X 18	24	18	3	12	1 1/2	0.080	3.00
	24 X 24	24	24	3	18	1 1/2	0.080	4.00
	24 X 30	24	30	3	24	1 1/2	0.080	5.00
	24 X 36	24	36	6	24	1 1/2	0.080	6.00
	30 X 12	30	12	3	6	1 7/8	0.080	2.50
	30 X 15	30	15	1 1/2	12	1 7/8	0.080	3.13
	30 X 18	30	18	3	12	1 7/8	0.080	3.75
	30 X 21	30	21	1 1/2	18	1 1/2	0.080	4.38
	30 X 24	30	24	3	18	1 7/8	0.080	5.00
	30 X 30	30	30	3	24	1 7/8	0.080	6.25
	30 X 36	30	36	6	24	1 7/8	0.080	7.50
	36 X 12	36	12	3	6	1 1/2	0.080	3.00
	36 X 18	36	18	3	12	1 1/2	0.080	4.50
	36 X 24	36	24	3	18	1 1/2	0.080	6.00
	36 X 30	36	30	3	24	2 1/4	0.080	7.50
	36 X 36	36	36	6	24	2 1/4	0.080	9.00
(3)	45 X 36	45	36	3	30	2 1/4	0.100	11.25

	SIGN SIZE	A	B	C	D	E	F	G	T	AREA
	36 X 12	36	12	3	6	3	30	1 1/2	0.080	3.00
	36 X 30	36	30	3	24	3	30	2 1/4	0.080	7.50
	36 X 48	36	48	9	30	6	24	0	0.100	12.00
	36 X 60	36	60	12	36	6	24	0	0.100	15.00
(2)	36 X 72	36	72	6	60	6	24	0	0.100	18.00
	42 X 12	48	12	3	6	6	30	1 1/2	0.080	3.50
	42 X 18	48	18	3	12	6	30	1 1/2	0.080	5.25
	42 X 24	48	24	6	12	6	30	1 7/8	0.080	7.00
	42 X 36	48	36	6	24	6	30	0	0.100	10.50
	48 X 12	48	12	3	6	9	30	1 1/2	0.080	4.00
	48 X 18	48	18	3	12	9	30	1 1/2	0.080	6.00
	48 X 24	48	24	6	12	9	30	1 7/8	0.080	8.00
	48 X 30	48	30	6	18	9	30	0	0.100	10.00
	48 X 36	48	36	6	24	9	30	0	0.100	12.00
	48 X 42	48	42	6	30	9	30	0	0.100	14.00
	48 X 48	48	48	9	30	9	30	0	0.100	16.00
	48 X 60	48	60	12	36	9	30	0	0.100	20.00
(2)	48 X 72	48	72	6	60	9	30	0	0.100	24.00
(2)	48 X 96	48	96	12	72	9	30	0	0.100	32.00
	60 X 12	60	12	3	6	12	36	0	0.100	5.00

SIGN SIZE	A	B	C	D	E	F	G	T	AREA
60 X 18	60	18	3	12	12	36	0	0.100	7.50
60 X 24	60	24	6	12	12	36	0	0.100	10.00
60 X 30	60	30	6	18	12	36	0	0.100	12.50
60 X 36	60	36	6	24	12	36	0	0.100	15.00
60 X 42	60	42	6	30	12	36	0	0.100	17.50
60 X 48	60	48	9	30	12	36	0	0.100	20.00
72 X 12	72	12	3	6	15	42	0	0.100	6.00
72 X 18	72	18	3	12	15	42	0	0.100	9.00
72 X 24	72	24	6	12	15	42	0	0.100	12.00
72 X 30	72	30	6	18	15	36	0	0.100	15.00
72 X 36	72	36	6	24	15	42	0	0.100	18.00
72 X 42	72	42	6	30	15	42	0	0.100	21.00
72 X 48	72	48	9	30	15	42	0	0.100	24.00
84 X 12	84	18	3	6	18	48	0	0.100	7.00
84 X 18	84	18	3	12	18	48	0	0.100	10.50
84 X 24	84	24	6	12	18	48	0	0.100	14.00
84 X 30	84	30	6	18	18	48	0	0.100	17.50
84 X 36	84	36	6	24	18	48	0	0.100	21.00
84 X 42	84	42	6	30	18	48	0	0.100	24.50
84 X 48	84	48	9	30	18	48	0	0.100	28.00

NOTE:
All holes are 3/8" square, unless otherwise noted.

The dimension "T" is the thickness of the aluminum blank.

(1) Holes shall be 5/16" diameter.

(2) Dimension "D" requires a center hole.

(3) Additional hole 12" below top hole.

All dimensions are in inches.

NO.	DATE	REVISIONS	BY	APP'D
01	10-01-19	Updated sign blank details and dimensions	D.D.G.	E.W.N.

KANSAS DEPARTMENT OF TRANSPORTATION

SIGN BLANK DETAILS FOR FLAT SHEET SIGNS

TE506 07-01-03

FHWA APPROVAL			10-01-19	APP'D.	Steven A. Buckley		
DESIGNED	D.D.G.	DETAILED	A.A.D.	QUANTITIES	TRACED		
DESIGN CK.	S.A.B.	DETAIL CK.	D.D.G.	QUAN.CK.	TRACE CK.		

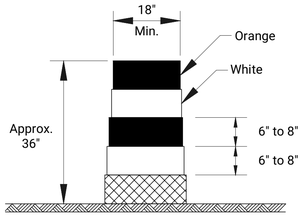
KDOT Graphics Certified 05-18-2022 Sh. No. 37

STATE			SHEET NO.	TOTAL SHEETS
KANSAS		REVISED TO 2026 CODE COMPLIANCE 2026	38	104

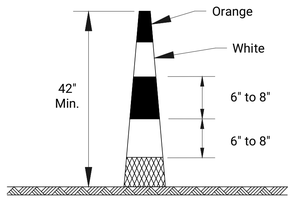
Wichita-Sedgwick County Metropolitan Area Building and Construction Department

CORRECTIONS OR COMPONENTS MADE ON THESE DRAWINGS AND THIS DOCUMENT DURING LEDA REVIEW DO NOT RELIEVE CONTRACTOR FROM COMPLIANCE WITH ALL REQUIREMENTS OF THIS CODE OR THE MARCED, THE CITY OF WICHITA OR SEDGWICK COUNTY. IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR OF THE CONSTRUCTION TO BE THE CONSTRUCTION MANAGER RESPONSIBLE FOR CONFORMING AND COORDINATING ALL TECHNIQUES OF CONSTRUCTION. THIS APPROVAL IS SUBJECT TO THE PROVISIONS OF SECTION 107.4 OF THE INTERNATIONAL BUILDING CODE.

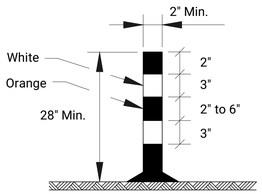
DATE: 4/14/2026 BY: Keri Jacobs



DRUM

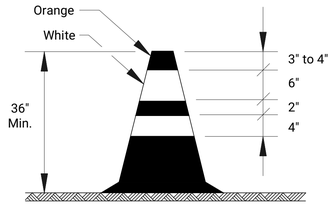


CONICAL DELINEATOR

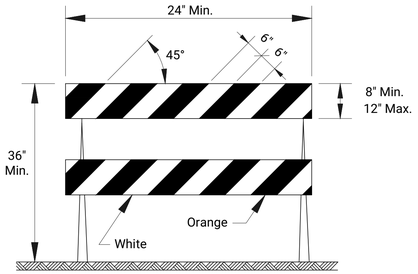


TUBULAR MARKER

Striping as shown for up to 42".

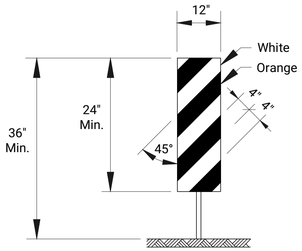


TRAFFIC CONE



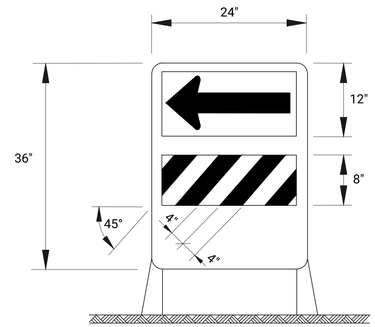
TYPE 2 BARRICADE

For rails less than 36" long, 4" wide stripes may be used. All stripes shall slope downward to the traffic side for channelization.



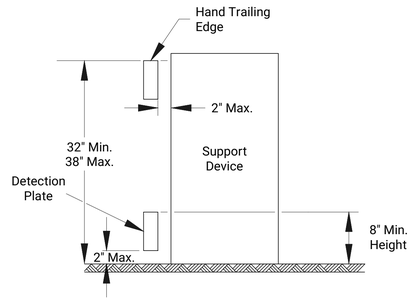
VERTICAL PANEL

The stripes shall slope downward to the traffic side for channelization.



DIRECTION INDICATOR BARRICADE

The stripes shall slope downward in the direction traffic is to pass. The direction indicator barricade shall be used in series to direct the motorist into the intended lane of travel.



PEDESTRIAN CHANNELIZER

1. Support device shall not project beyond the detection plate into the pathway.
2. Hand trailing edges and detection plates are optional for continuous walls.
3. Interconnect pedestrian channelizers to prevent displacement and to provide continuous guidance through or around work.
4. Alternate pathways shall be firm, stable, and slip resistant.
5. Treat height differentials > 1/2" in the surfaces of alternate paths with a firm, stable, and slip resistant temporary ramp having a slope of 12:1 or flatter and having a width equal to the alternate path.
6. Use alternating orange/white on interconnected devices.

Item	Location	Cross-overs	Shoofly Diversions	Tangents	Tapers	Ramps	Head to Head	Object Identifier	Lead-in Devices	Gores
Portable										
	Drums	Yes	Yes	Yes	Yes	Yes	(1)	Yes	Yes	Yes
	Conical Delineators	Yes	Yes	Yes	Yes	Yes	(1)	Yes	Yes	Yes
	Vertical Panels	(2)	(2)	(2)	(2)	(2)	(1,2)	Yes	(2)	(2)
	Direction Indicator Barricade	No	No	No	Yes	No	No	No	No	No
	Type 2 Barricade	(2)	(2)	(2)	(2)	No	No	Yes	No	No
	Traffic Cones	No	No	(4)	(4)	(4)	No	(4)	(4)	(4)
Fixed										
	Tubular Markers	(3)	(3)	(3)	No	(3)	Yes	No	Yes	Yes
	Vertical Panels	(3)	(3)	(3)	(3)	(3)	(3)	Yes	(2,3)	(2)

(1) Not allowed on centerline delineation along freeways or expressways.
(2) The stripes shall slope downward to the traffic side for channelization.
(3) May be used upon the approval of the engineer.
(4) Daytime operations only.

NO.	DATE	REVISIONS	BY	APP'D

KANSAS DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL CHANNELIZING DEVICES

TE702

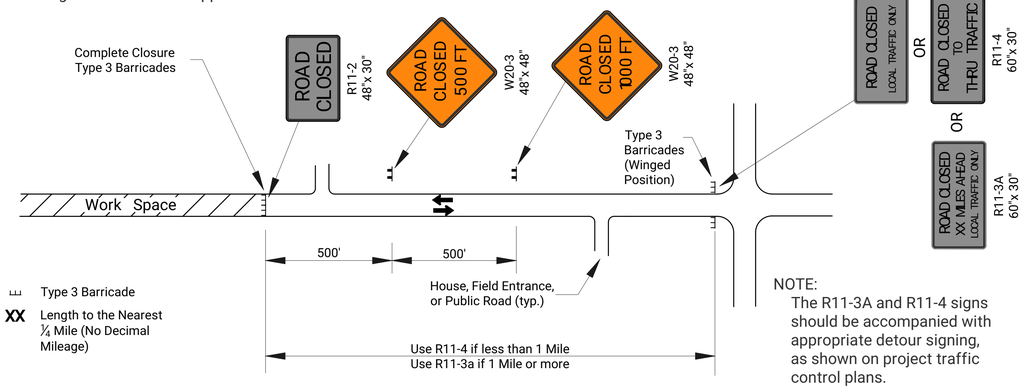
FHWA APPROVAL		06-01-15	APP'D.	Kristina Ericksen	
DESIGNED	L.E.R.	DETAILED R.W.B.	QUANTITIES	TRACED	
DESIGN CK.		DETAIL CK.	QUAN.CK.	TRACE CK.	

KDOT Graphics Certified 05-18-2022

Sh. No. 38

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	482-11068	2026	39	104

Note: Signs shown for one approach to work zone.



NOTE:
The R11-3A and R11-4 signs should be accompanied with appropriate detour signing, as shown on project traffic control plans.

FIGURE 1: TYPICAL SIGNING FOR ROAD CLOSURE (MAINLINE OR SIDE ROAD)

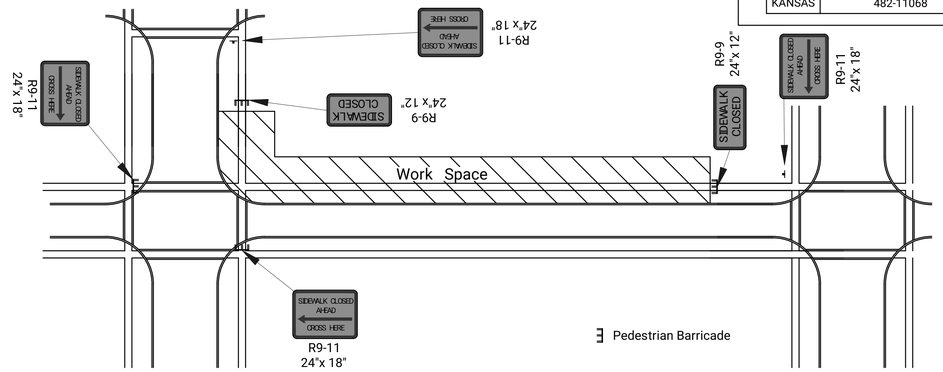


FIGURE 4: TYPICAL SIGNING FOR SIDEWALK CLOSED WITH OPPOSITE SIDEWALK AVAILABLE

Note: Sign shown for one approach to intersection (work zone).

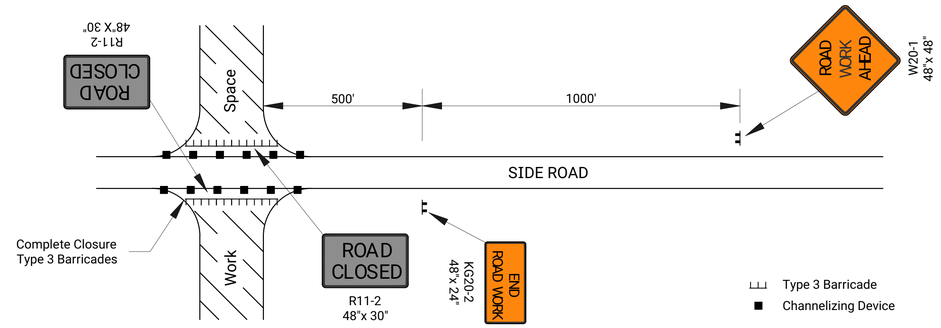


FIGURE 2: TYPICAL SIGNING FOR SIDE ROAD OPEN

Note: Signs shown for one approach to work zone.

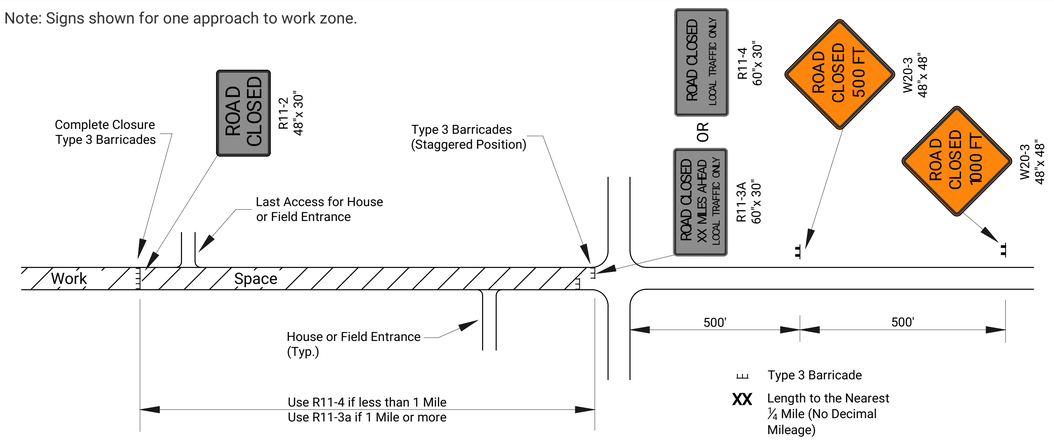
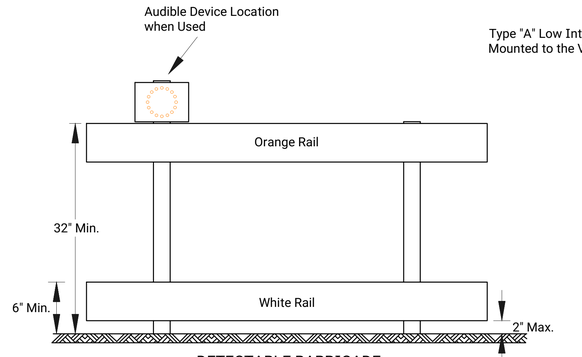
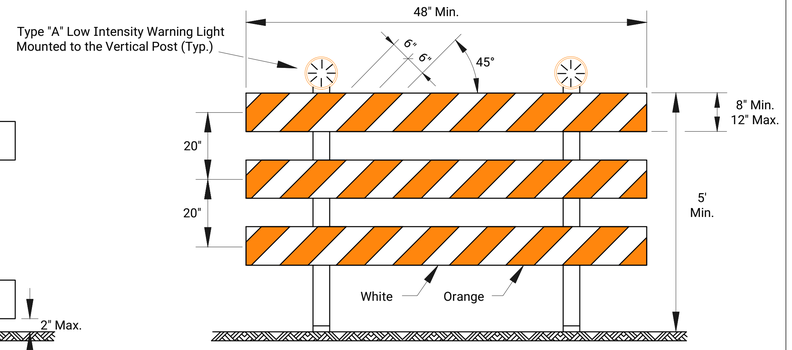


FIGURE 3: TYPICAL SIGNING FOR ROAD CLOSURE - LOCAL TRAFFIC ACCESS



DETECTABLE BARRICADE

1. Support device shall not project beyond the detection plate into the pathway.
2. Barricades shall be used to close the entire width of the pathway.
3. Do not use warning lights on pedestrian barricades.
4. Do not use warning lights on audible devices.



TYPE 3 BARRICADE WITH LIGHTS

Approved signs mounted on Type 3 barricades should not cover more than 50% of the top two rails or 33% of the total area of the three rails.

When barricades are placed end-to-end or staggered, a Type "A" low intensity warning light shall be mounted to the vertical post near each outside corner of the end barricades.

ROAD CLOSED GENERAL NOTES

As shown in Figure 1, at the point where thru traffic must detour and local traffic can proceed to the location where the roadway is completely closed, the R11-3a (ROAD CLOSED # MILES AHEAD LOCAL TRAFFIC ONLY) or R11-4 (ROAD CLOSED LOCAL TRAFFIC ONLY or ROAD CLOSED TO THRU TRAFFIC) sign shall be used with Type 3 barricades (winged position), placed on the shoulders of roadway.

As shown in Figure 3, when local traffic must be allowed access into the work zone, Type 3 barricades shall be longitudinally staggered to maintain the appearance of a closed roadway. A second line of end-to-end Type 3 barricades shall be placed just beyond the last access point in the work zone, to completely close the roadway.

The R11-4 (ROAD CLOSED TO THRU TRAFFIC or ROAD CLOSED LOCAL TRAFFIC ONLY) sign shall be used when the distance to the point of complete closure of the roadway is less than 1 mile.

The R11-3a (ROAD CLOSED # MILES AHEAD LOCAL TRAFFIC ONLY) sign shall be used when the distance to the point of complete closure of the roadway is 1 mile or greater.

The words "BRIDGE OUT" (or BRIDGE CLOSED) may be substituted for the words "ROAD CLOSED" on the R11-3a or R11-4 sign where applicable.

NO.	DATE	REVISIONS	BY	APP'D

KANSAS DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL CLOSURES

TE704

FHWA APPROVAL		06-01-15	APP'D.	Kristina Ericksen	
DESIGNED	B.A.H.	DETAILED	R.W.B.	QUANTITIES	TRACED
DESIGN CK.		DETAIL CK.		QUAN.CK.	TRACE CK.

KDOT Graphics Certified 05-18-2022

Sh. No. 39

SIGN LAYOUT INFORMATION



KG20-2

Std. Size Expwy/Freeway
6" C
48"x 24"



KG20-5

Std. Size Expwy/Freeway
6" C
48"x 24"



KM4-20

Std. Size
3" C
24"x 6"

Expwy/Freeway
6" C
48"x 12"



W7-3a

Mileage to be Determined by the Engineer.



W8-15

Std. Size Expwy/Freeway
8" D
48"x 48"



W8-7

Std. Size Expwy/Freeway
8" D
48"x 48"



W8-15p

Std. Size Expwy/Freeway
30"x 24"



W8-17

Std. Size Expwy/Freeway
48"x 48"



W8-11

Std. Size Expwy/Freeway
8" D
48"x 48"



W8-17P
(Optional)

Std. Size Expwy/Freeway
30"x 24"



SP-01
(Special Sign)

Std. Size
6" C

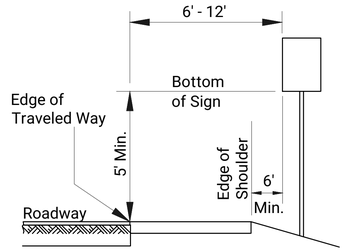
Expwy/Freeway
10" D



SP-02
(Special Sign)

Std. Size		Expwy/Freeway	
Uppercase:	6" C	Uppercase:	10" D
Lowercase:	4.5" C	Lowercase:	8" D

All city names and street names on special signs and destination signs must have upper and lower case letters.

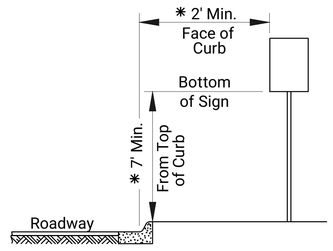


RURAL

1) Ground-mounted signs shall be mounted at a minimum height of 5' measured from the bottom of sign to the near edge of the pavement.

2) Large signs having an area exceeding 50 square feet installed on multiple breakaway posts shall be mounted a minimum of 7' above the ground.

3) The height of the secondary sign mounted below another sign may be 4' measured from the bottom of the sign to the near edge of the pavement. Signs shall not overlap each other.



URBAN

1) Signs shall be mounted at a minimum height of 7' measured from the bottom of sign to the near edge of the pavement.

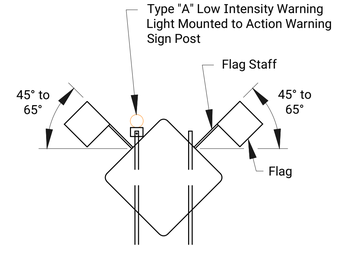
2) Neither portable nor permanent sign supports should be located on sidewalks or areas designated for pedestrian or bicycle traffic.

3) Signs mounted lower than 7' should not project more than 4" into pedestrian facilities.

4) The height from of the secondary sign mounted below another sign may be 6' measured from the bottom of sign to the near edge of the pavement. Signs shall not overlap each other.

5) Large signs having an area exceeding 50 square feet installed on multiple breakaway posts shall be mounted a minimum of 7' above the ground.

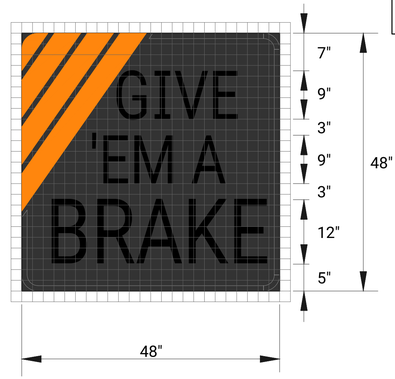
* 6) Pedestrian detour signing shall be a minimum of 2' measured from the top of the pedestrian pathway to the bottom of the sign and shall not protrude into the walkway nor shall it project beyond the back of curb.



When the sign width is equal to or greater than 9', three or more wood posts may be used with a minimum of 4' between the centerline of each post. All signs less than 9' in width shall use a maximum of two wood posts.

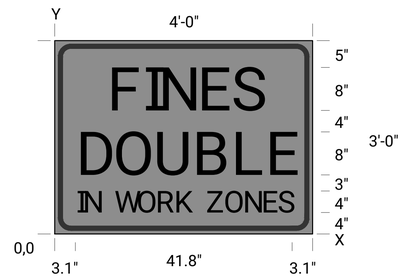
In the case of hitting rock when driving posts
1. Shift the sign location. Do not violate minimum sign spacing.
2. With the engineer's approval, use acceptable alternative sign stands.

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	482-11068	2026	40	104



KI-104a

Sign Number	GIVE EM A BRAKE
Width x Height	4'-0" x 4'-0"
Border Width	1.0"
Corner Radius	4.0"
Stripe Width	3.0"
Mounting	Ground
Background	Type: Non-Reflective
	Color: Black
Legend/Border	Type: Reflective
	Color: White
Legend Font	Dutch 801 Roman SWC 25 Degree Slant
Stripes	Type: Reflective
	Color: Orange



KI-105a

Sign Number	FINES DOUBLE
Width x Height	4'-0" x 3'-0"
Border Width	0.9"
Corner Radius	3.0"
Mounting	Ground
Background	Type: Reflective
	Color: White
Legend/Border	Type: Non-Reflective
	Color: Black

Dimensions in inches — Spacings are to start of next letter

Y FONT	LETTER SPACINGS															HT LEN
23.0 D		F	I	N	E	S										8.0
	9.7	6.4	3.2	7.3	6.4	5.4	9.7									28.6
11.0 D		D	O	U	B	L	E									8.0
	3.9	6.9	7.5	7.3	7.3	6.4	4.9	3.9								40.3
4.0 D		I	N		W	O	R	K		Z	O	N	E	S		4.0
	3.1	1.6	2.7	3.2	4.3	3.8	3.6	2.8	3.2	3.4	3.8	3.6	3.2	2.7	3.1	41.8

Notes:

Typically, there are two sets of informational signs installed per project: one for each direction of traffic.

Install signs a minimum of 500' in advance of the road work ahead sign. The engineer may designate a more appropriate location if conditions dictate.

The informational signs are not to interfere with the traffic control signs for the project.

NO.	DATE	REVISIONS	BY	APP'D

KANSAS DEPARTMENT OF TRANSPORTATION

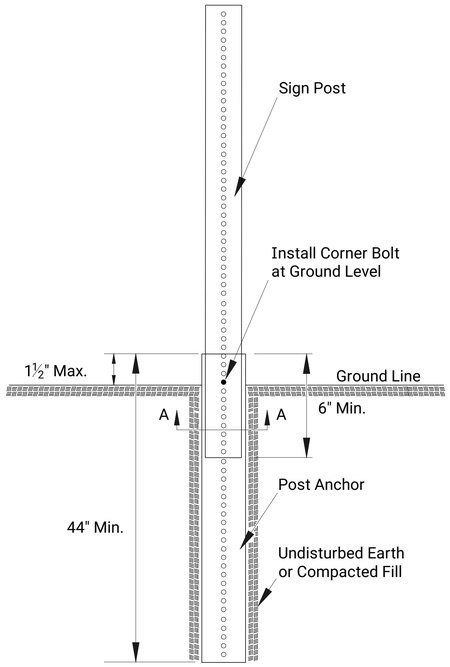
TRAFFIC CONTROL SIGN INFORMATION

TE710

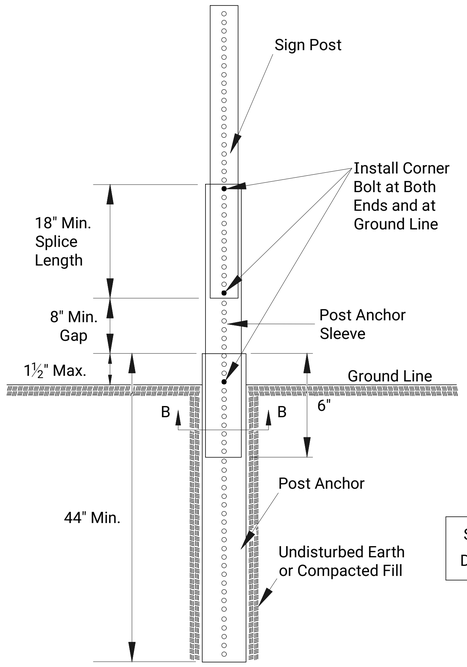
FHWA APPROVAL		06-01-15	APP'D.	Kristina Ericksen	
DESIGNED	R.W.B.	DETAILED R.W.B.	QUANTITIES	TRACED	
DESIGN CK.		DETAIL CK.	QUAN.CK.	TRACE CK.	

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	482-11068	2026	41	104

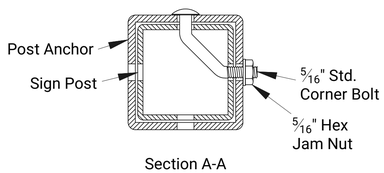
PERFORATED SQUARE STEEL TUBE (P.S.S.T.) POST SETUP



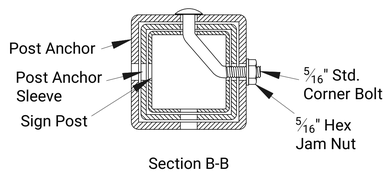
P.S.S.T. Detail



Telescoping P.S.S.T. Detail



Section A-A

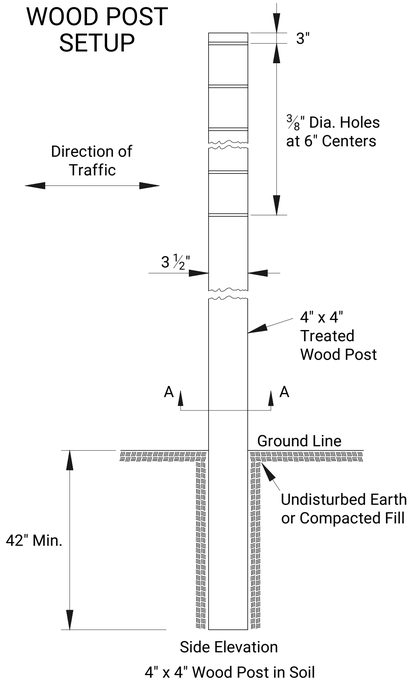


Section B-B

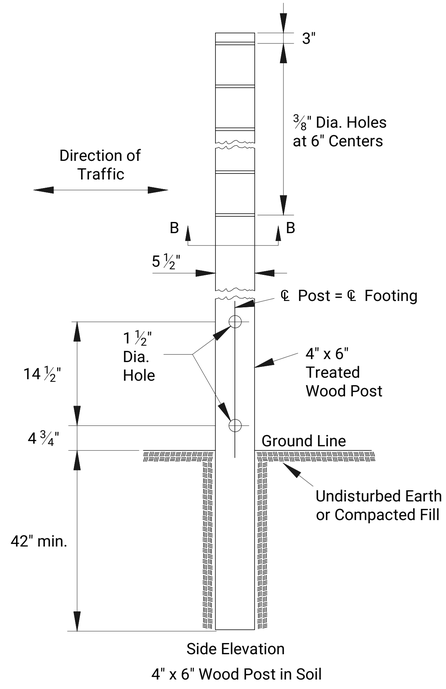
Details for 2", 2 ¼", or 2 ½" sign posts

Place bolts in the same corner along each sign post.

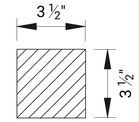
WOOD POST SETUP



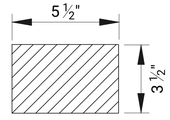
Side Elevation
4" x 4" Wood Post in Soil



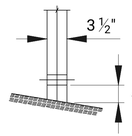
Side Elevation
4" x 6" Wood Post in Soil



Section A-A



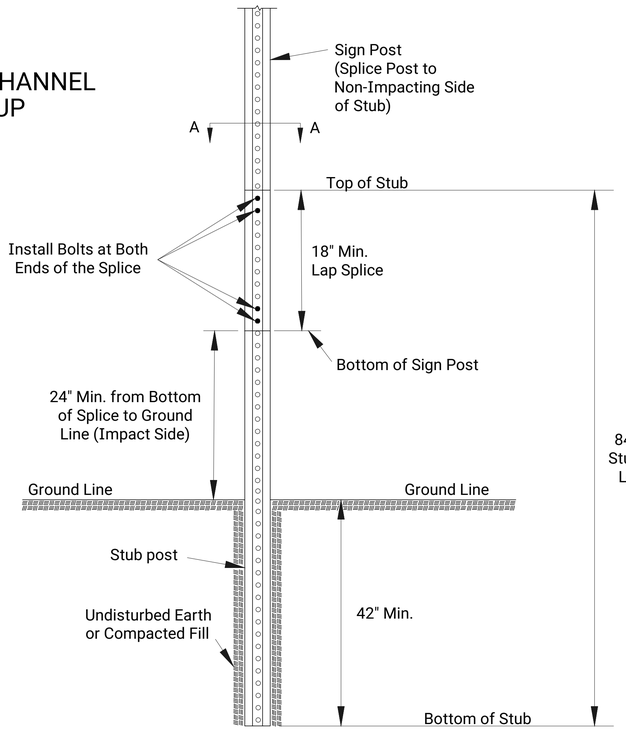
Section B-B



Front Elevation

See TE710 for Additional Details and Requirements

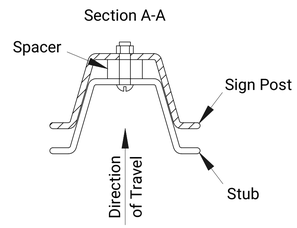
3 LB/F U-CHANNEL SETUP



Notes:

Place two bolts at both ends of the splice through the holes nearest the ends of the splice.

Use manufacturer recommended spacers over the bolts between the spliced pieces of U-Channel.



NO.	DATE	REVISIONS	BY	APP'D

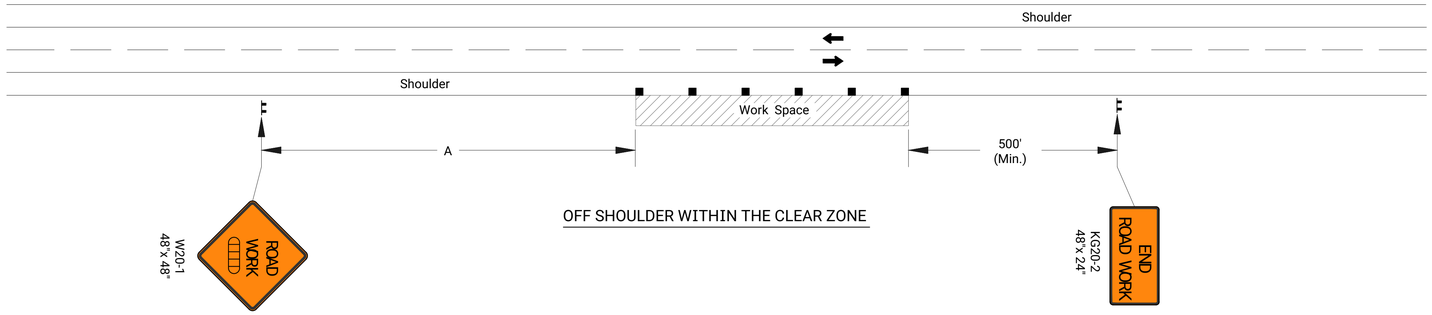
KANSAS DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL SIGN POSTS

TE712

FHWA APPROVAL		06-01-15	APP'D.	Kristina Ericksen	
DESIGNED	B.A.H.	DETAILED R.W.B.	QUANTITIES	TRACED	
DESIGN CK.		DETAIL CK.	QUAN.CK.	TRACE CK.	

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	482-11068	2026	42	104

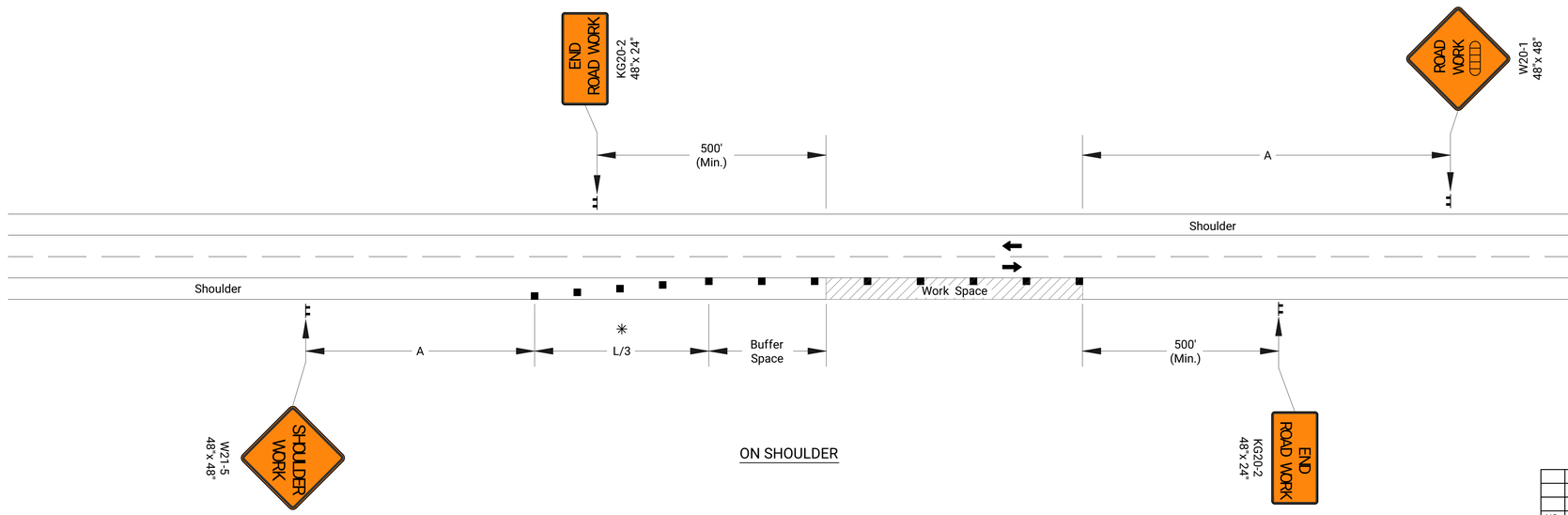


OFF SHOULDER WITHIN THE CLEAR ZONE

Notes:

No traffic control is required if the Work Space is located outside of the clear zone.

For operations of 60 minutes or less, all signs and channelizing devices may be eliminated if a vehicle with high-intensity rotating, flashing, oscillating, or strobe lights is used.



ON SHOULDER

✳ Omit taper if paved shoulder is less than 8' wide.

■ Channelizing Device

Ahead, 1500 ft, or 1 Mile

NO.	DATE	REVISIONS	BY	APP'D

KANSAS DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL SHOULDER WORK UNDIVIDED ROADWAY

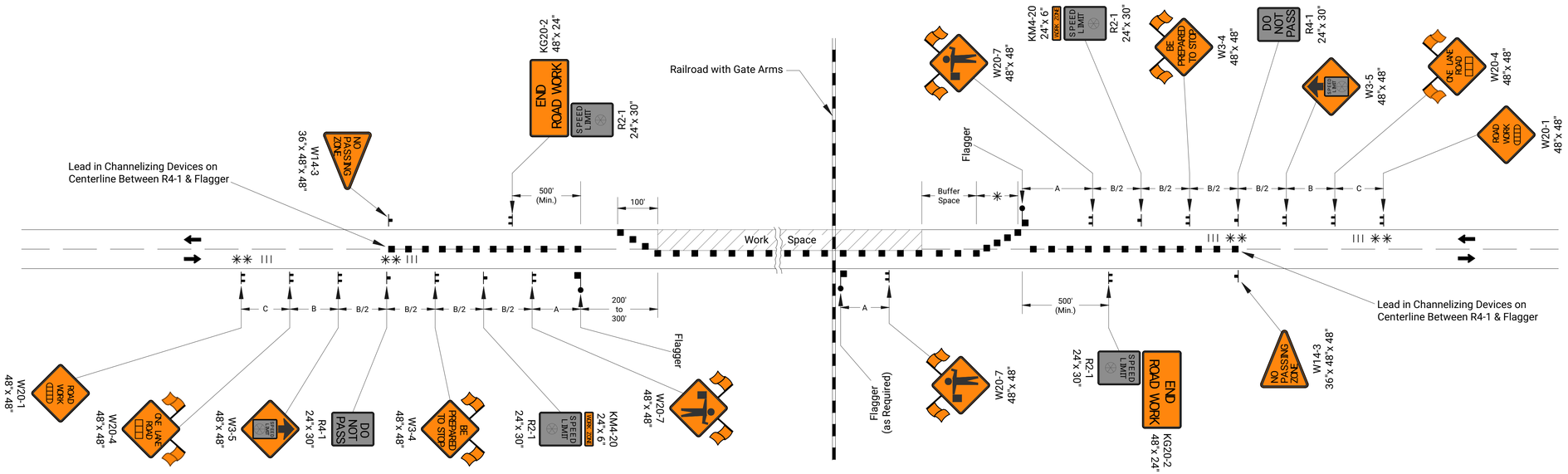
TE720

FHWA APPROVAL		06-01-15	APP'D.	Kristina Ericksen	
DESIGNED	L.E.R.	DETAILED R.W.B.	QUANTITIES	TRACED	
DESIGN CK.		DETAIL CK.	QUAN.CK.	TRACE CK.	

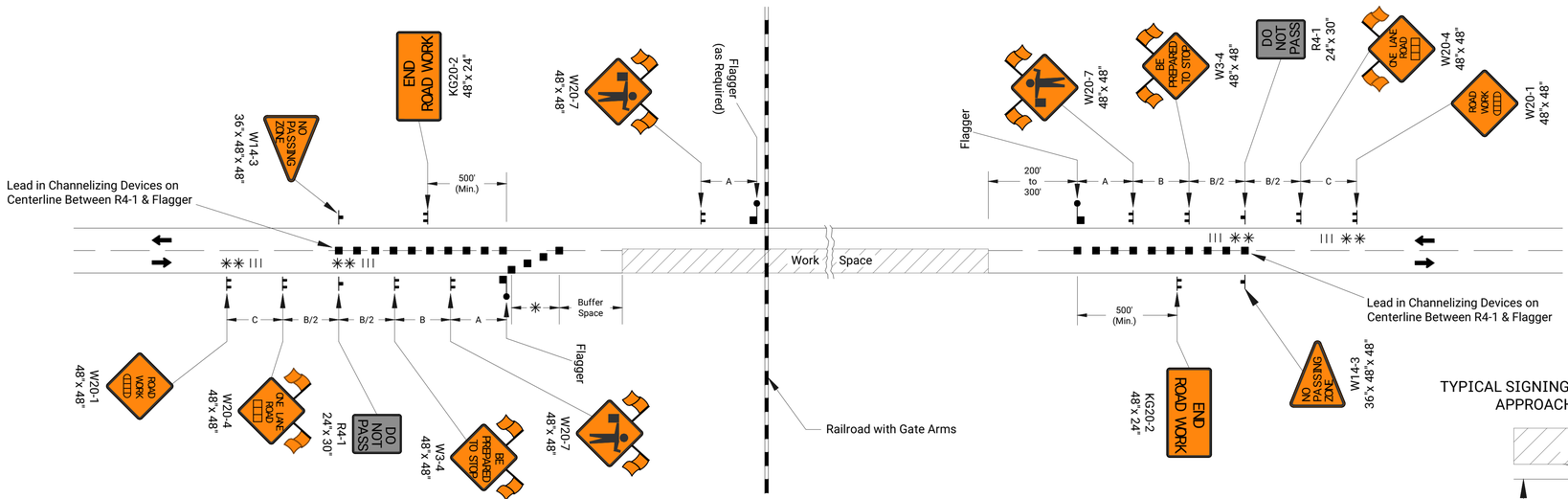
KDOT Graphics Certified 05-18-2022

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	482-11068	2026	43	104

FLAGGER



FLAGGER AND PILOT CAR



■ Channelizing Device
Ahead, 1500 ft, or 1 Mile
Ahead, 1000 ft, 1500 ft, or ½ Mile
Speed to be Determined by the Engineer
Type "A" Low Intensity Warning Light
Temporary Portable Rumble Strips

USE TE731 FOR FLAGGER OR PILOT CAR ON ROADWAYS WITH CONCRETE SHOULDERS GREATER THAN 8 FT.

Notes:

Trucks hauling material to the project should STOP at the Flagger. After stopping, upon approval of the Engineer, trucks may be allowed to move around the Flagger.

Place a Flagger at all highway and major collector intersections and at-grade railroad intersections with lights and gates in the work space to control traffic crossing the tracks to the left of the gate arm. The need for a Flagger at minor side road intersections shall be determined by the Engineer. Place a W20-7 (Flagger symbol) sign on each side road that is controlled by a Flagger.

Existing signs shall not be covered or removed between Flagger stations.

Temporary rumble strips may be used in lieu of lead in channelizing devices when the roadway is less than or equal to 30' including paved shoulders. When extenuating circumstances exist, the Area Engineer may elect to eliminate both the lead in channelizers and the rumble strips.

✳ Minimum six (6) channelizers spaced at 20' intervals.

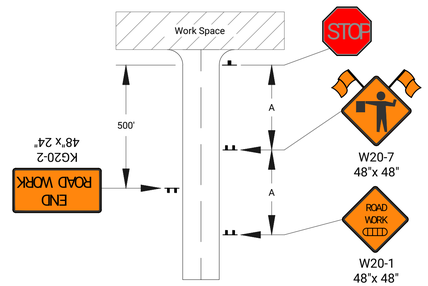
✳✳ Optional rumble strips may be placed: One set between the W20-1 and W20-4, and one set between the R4-1 and W3-4, on each approach.

△ Not required on substantial maintenance projects (1R).

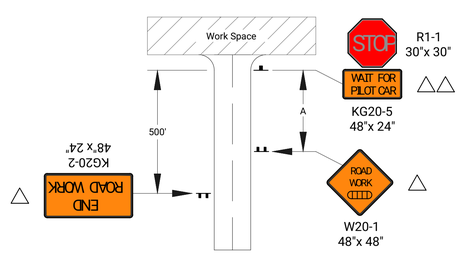
△△ The KG20-5 (WAIT FOR PILOT CAR) sign shall be mounted on an approved portable support and not attached to the existing stop sign post.

The KG20-5 sign shall be placed immediately in front of the existing stop sign, a minimum of 6" below the bottom of the stop sign. The sign should be removed or covered when there is no pilot car.

TYPICAL SIGNING FOR HIGHWAY OR MAJOR COLLECTOR APPROACH TO WORK SPACE



TYPICAL SIGNING FOR A MINOR SIDE ROAD APPROACH TO WORK SPACE



NO.	DATE	REVISIONS	BY	APP'D

KANSAS DEPARTMENT OF TRANSPORTATION

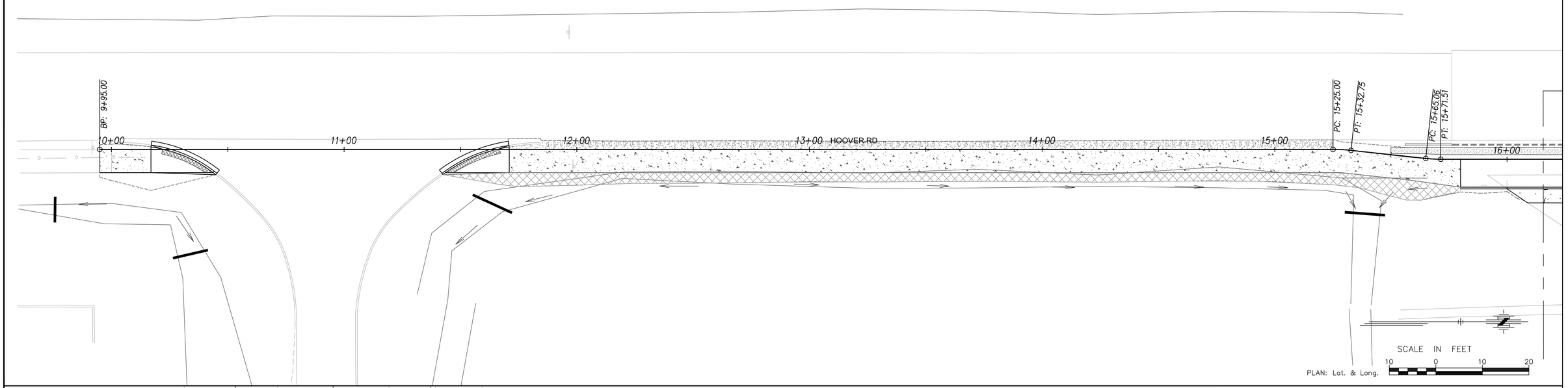
TRAFFIC CONTROL FLAGGER OR PILOT CAR

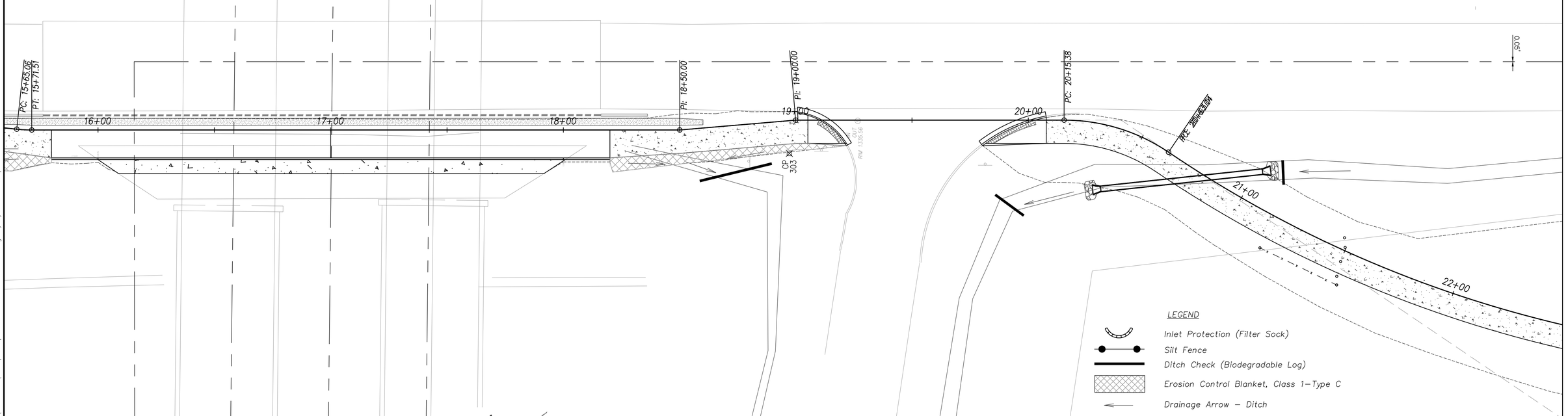
TE730

FHWA APPROVAL		06-01-15	APP'D.	Kristina Ericksen	
DESIGNED	B.A.H.	DETAILED R.W.B.	QUANTITIES	TRACED	
DESIGN CK.		DETAIL CK.	QUAN.CK.	TRACE CK.	

KDOT Graphics Certified 05-18-2022

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	482–11068	2026	44	104





J:\2016Proj\161006\2024 Trail\Ph 1\CADD\161006 Erosion Control Plan.dwg 4/15/2026 - 1:25pm

NO.	DATE:	REVISION	BY:	APP'D

DRAWN BY: JMD

APP'D BY: DWH

CFS ENGINEERS

DANIEL W. HOLLOWAY — #15360 — KANSAS — PROFESSIONAL ENGINEER

ADAM PROHASKA — LICENSED — 31453 — KANSAS — PROFESSIONAL ENGINEER

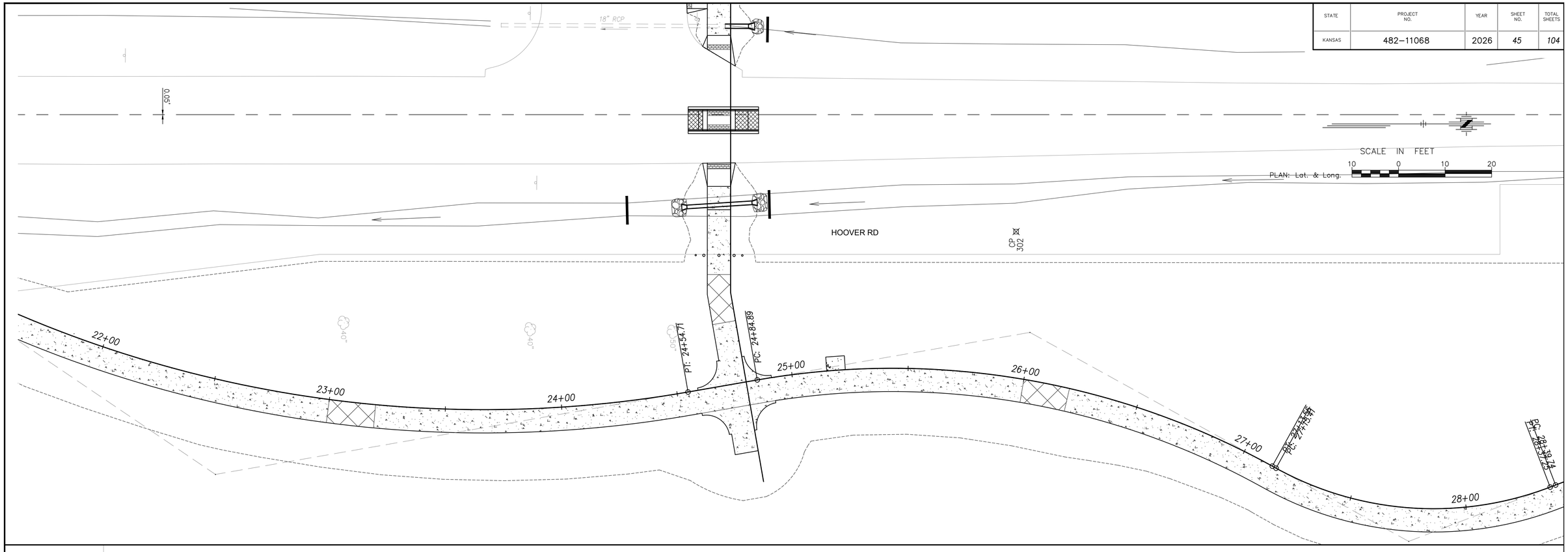
CITY OF WICHITA

MULTI-USE TRAIL
CRYSTAL PRAIRIE LAKE PARK
PHASE I
482-11068 (R2000)(R5006), 472-2026-086248, 458-2025-085639
WICHITA, KS

EROSION CONTROL PLAN
Sta. 10+00.00 to Sta. 22+00.00

DATE: Feb. 2026
SHEET: 44 of 104
PROJ.: 16–1006

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	482–11068	2026	45	104



NO.	DATE:	REVISION	BY:	APP'D

DRAWN BY: JMD

APP'D BY: DWH

CFS ENGINEERS

DANIEL W. HOLLOWAY — LICENSED — 15360 — 11-5-26 — KANSAS — PROFESSIONAL ENGINEER

ADAM PROHASKA — LICENSED — 31453 — 11-5-26 — KANSAS — PROFESSIONAL ENGINEER

CITY OF WICHITA

MULTI-USE TRAIL
CRYSTAL PRAIRIE LAKE PARK
PHASE I
482-11068 (R2000)(R5006), 472-2026-086248, 458-2025-085639
WICHITA, KS

EROSION CONTROL PLAN
Sta. 10+00.00 to Sta. 22+00.00

DATE: Feb. 2026
SHEET: 45 of 104
PROJ.: 16–1006

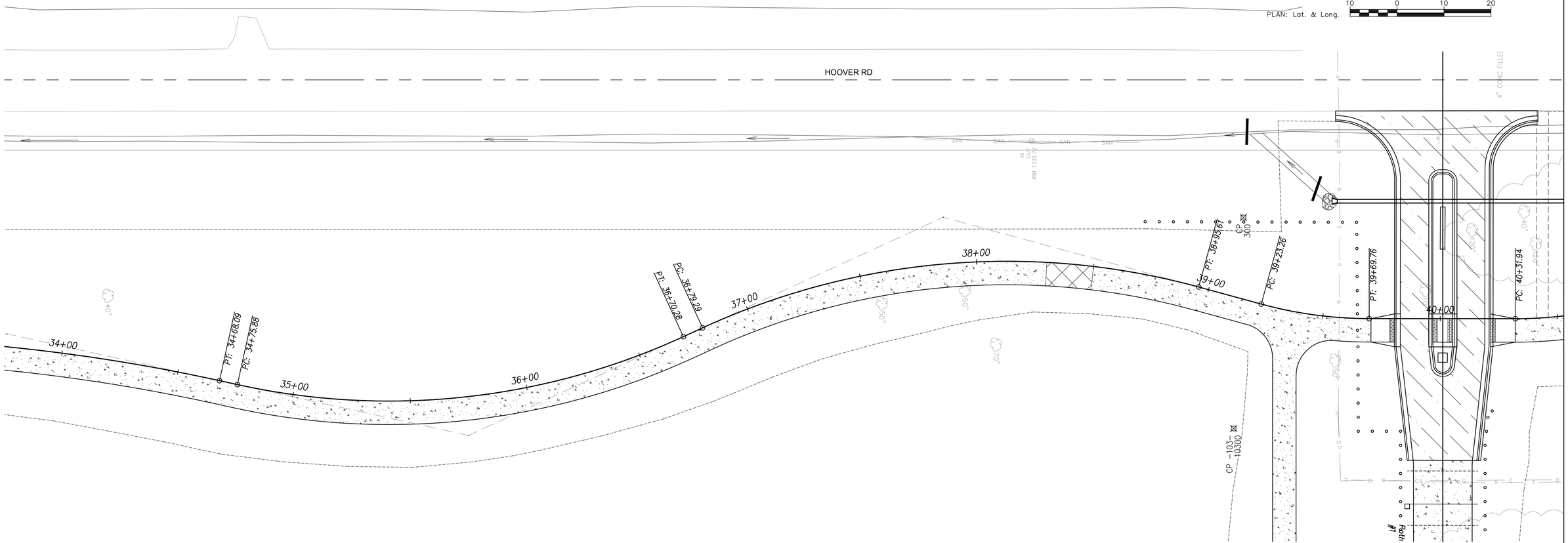
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STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	482–11068	2026	46	104

SCALE IN FEET

10 0 10 20

PLAN: Lat. & Long.



LEGEND

- Inlet Protection (Filter Sock)
- Silt Fence
- Ditch Check (Biodegradable Log)
- Erosion Control Blanket, Class 1–Type C
- Drainage Arrow – Ditch

NO.	DATE:	REVISION	BY:	APP'D

DRAWN BY: JMD

APP'D BY: DWH

CFS ENGINEERS

DANIEL W. HOLLOWAY LICENSED #15360 KANSAS PROFESSIONAL ENGINEER 4-5-26

ADAM PROHASKA LICENSED 31453 KANSAS PROFESSIONAL ENGINEER 4-5-26

CITY OF WICHITA

MULTI-USE TRAIL
CRYSTAL PRAIRIE LAKE PARK
PHASE I
482-11068 (R2000)(R5006), 472-2026-086248, 458-2025-085639
WICHITA, KS

EROSION CONTROL PLAN
Sta. 10+00.00 to Sta. 22+00.00

DATE: Feb. 2026
SHEET: 46 of 104
PROJ.: 16–1006

J:\2016Proj\161006\2024 Trail\Ph 1\CADD\161006 Erosion Control Plan.dwg 4/15/2026 - 1:25pm

STATE		Wichita-Sedgwick County Metropolitan Area Building and Construction Department	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS		482-11068	2026	47	104

REVIEWED FOR CODE COMPLIANCE

CONSTRUCTION OF THIS PROJECT SHALL COMPLY WITH ALL APPLICABLE CODES AND THIS DOCUMENT DURING 120x REVIEW. DO NOT RELIEVE CONTRACTOR FROM COMPLYING WITH ALL REQUIREMENTS OF THE CODE OF THE MUNICIPALITY. THE CITY OF WICHITA OR ITS AGENTS ASSUME NO RESPONSIBILITY FOR ENFORCEMENT OF THE CODES. THE CONTRACTOR IS RESPONSIBLE FOR CONFORMING AND OPERATING ALL TECHNIQUES OF CONSTRUCTION. THIS APPROVAL IS SUBJECT TO PROVISIONS OF SECTION 107.4 OF THE INTERNATIONAL BUILDING CODE.

DATE: 4/14/2026 BY: Keri Jacobs

PLAN: Lat. & Long.

HOOVER RD

PC: 40+93.83

PT: 40+38.76

PC: 40+31.94

PT: 39+69.76

PC: 39+23.26

PT: 38+95.61

41+00

40+00

39+00

4" CONC FILLED STEEL PIPE

RIM 1335.72
IN
OUT

300
CP

10300
CP -103-

SCALE IN FEET
10 0 10 20

LEGEND

- Inlet Protection (Filter Sock)
- Silt Fence
- Ditch Check (Biodegradable Log)
- Erosion Control Blanket, Class 1-Type C
- Drainage Arrow - Ditch

NO.	DATE:	REVISION	BY:	APP'D

DRAWN BY: JMD

APP'D BY: DWH

CFS ENGINEERS

DANIEL W. HOLLOWAY LICENSED 19360 5-5-26 KANSAS PROFESSIONAL ENGINEER

ADAM PROHASKA LICENSED 31453 5-5-26 KANSAS PROFESSIONAL ENGINEER

CITY OF WICHITA

MULTI-USE TRAIL
CRYSTAL PRAIRIE LAKE PARK
PHASE I
482-11068 (R2000)(R5006), 472-2026-086248, 458-2025-085639
WICHITA, KS

EROSION CONTROL PLAN
Sta. 10+00.00 to Sta. 22+00.00

DATE: Feb. 2026
SHEET: 47 of 104
PROJ.: 16-1006

J:\2016Proj\161006\2024 Trail\Ph 1\CADD\161006 Erosion Control Plan.dwg 3/05/2026 - 7:39am

Wichita-Sedgwick County
Metropolitan Area Building
and Construction Department

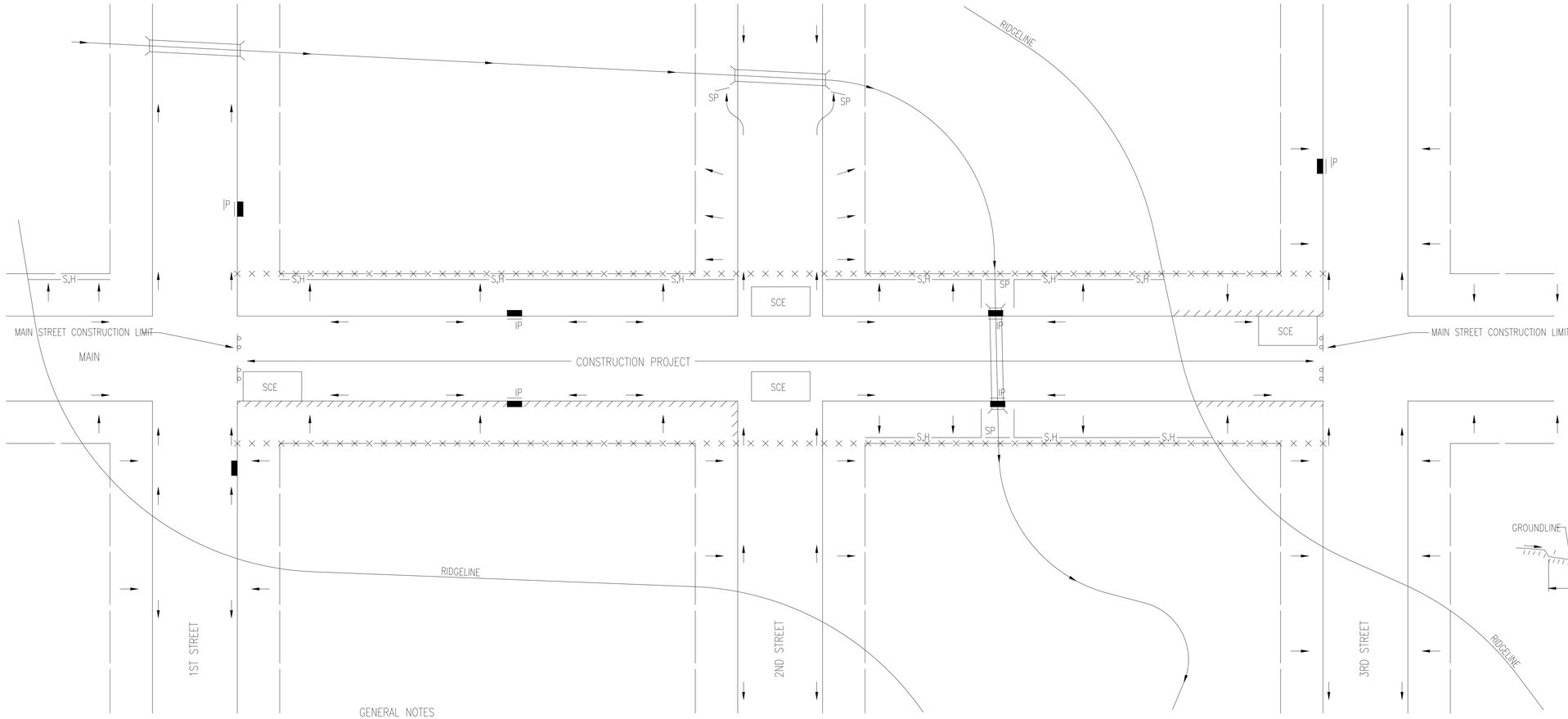
REVIEWED FOR CODE COMPLIANCE

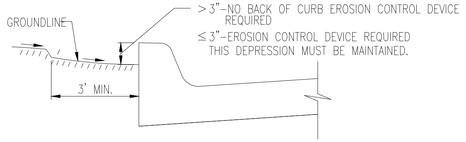
CORRECTIONS OR COMMENTS MADE ON THESE DRAWINGS AND THIS DOCUMENT DURING THE REVIEW DO NOT RELIEVE CONTRACTOR FROM COMPLIANCE WITH ALL REQUIREMENTS OF THE CODES OF THE MCKEE, THE CITY OF WICHITA OR SEDGWICK COUNTY. THE APPROVAL OF THESE PLANS DOES NOT GIVE AUTHORITY TO VIOLATE OR CANCEL THE PROVISIONS OF THE CODES. THE CONTRACTOR IS RESPONSIBLE FOR CONFORMING AND COMPLETING ALL TECHNIQUES OF CONSTRUCTION. THIS APPROVAL IS SUBJECT TO PROVISIONS OF SECTION 107.4 OF THE INTERNATIONAL BUILDING CODE.

DATE: 4/14/2026 BY: Keri Jacobs

GENERAL NOTES

1. THIS SHEET IS INTENDED TO PROVIDE GUIDELINES AS TO WHAT TYPES OF EROSION CONTROL DEVICES WILL BE INSTALLED DURING THE CONSTRUCTION PROCESS. CONTRACTORS ARE EXPECTED TO BID PROJECTS ACCORDINGLY.
2. EROSION CONTROL DEVICES MUST BE MAINTAINED BY THE CONTRACTOR THROUGHOUT THE CONSTRUCTION PROCESS AND UNTIL THE DISTURBED EARTH IS RESTABILIZED.
3. IF THE PROJECT WILL DISTURB 1 ACRE OR MORE, A FEDERAL/STATE NPDES STORMWATER PERMIT IS REQUIRED. A DETAILED STORMWATER POLLUTION PREVENTION PLAN, IS REQUIRED. THE EROSION CONTROL DEVICES SHOWN ON THIS SHEET ARE CONSIDERED TO BE THE MINIMUM TO BE SHOWN IN THE POLLUTION PREVENTION PLAN.
4. FOR PROJECTS DISTURBING LESS THAN 1 ACRE, CONTRACTORS ARE ENCOURAGED TO PREPARE STORMWATER POLLUTION PREVENTION PLANS PRIOR TO CONSTRUCTION. EROSION CONTROL DEVICES MUST BE USED ON ALL PROJECTS.
5. FAILURE TO USE AND MAINTAIN EROSION CONTROL DEVICES IS A VIOLATION OF SECTION 16.32 OF THE CITY CODE AND WILL SUBJECT THE CONTRACTOR TO THE PENALTIES PROVIDED FOR THEREIN.
6. THE APPLICATION OF EROSION CONTROL DEVICES SHOWN ON THIS SHEET IS FOR SITUATIONS NORMALLY ENCOUNTERED. FROM TIME TO TIME, SITUATIONS WILL ARISE THAT MAY REQUIRE A DIFFERENT DEVICE OTHER THAN THOSE SHOWN. EROSION CONTROL DEVICES, OTHER THAN THOSE SHOWN, MAY BE UTILIZED AS LONG AS THEY ARE EFFECTIVE AND MAINTAINED.





CURB BACKFILL DETAIL

THIS IS A TEMPORARY MEASURE ONLY, WHEN APPROVED BY THE PROJECT ENGINEER. THE DIRT GRADE BEHIND THE CURB SHALL BE BROUGHT TO THE TOP OF CURB, WITH TEMPORARY EROSION CONTROL MAT OR PERMANENT VEGETATION PLACED, PRIOR TO THE COMPLETION OF ALL PROJECTS.

LEGEND

- R–O–W LIMITS
- DRAINAGE FLOW PATH
- R/W LIMIT WITHIN CONSTRUCTION LIMIT
- STORM WATER INLETS
- IP — INLET PROTECTION
- S,H — SILT FENCE OR HAY BALE BARRIER
- SP — STREAM PROTECTION
- SCE — STABILIZED CONSTRUCTION ENTRANCE
- BACK OF CURB PROTECTION

GENERAL NOTES

1. THE INTENT OF ALL EROSION CONTROL DEVICES IS TO KEEP ALL SEDIMENT CONFINED TO THE CONSTRUCTION SITE, AND OUT OF ALL UNDERGROUND PIPES, DITCHES, LAKES, AND OTHER DRAINAGE FACILITIES, AND OFF OF STREETS.
2. THE POINT OF COMPLIANCE IS GENERALLY THE RIGHT–OF–WAY LINES WITHIN THE LIMITS OF CONSTRUCTION.
3. EROSION CONTROL DEVICES WILL BE REQUIRED AT ALL POINTS ALONG THE PROJECT WHERE DISTURBED EARTH CAN DRAIN ONTO PRIVATE PROPERTY.
4. INLET PROTECTION DEVICES WILL BE REQUIRED WHEREVER WATER CAN DRAIN OFF THE PROJECT SITE INTO AN INLET, INCLUDING ANY SIDE STREET INLETS.
5. EROSION CONTROL DEVICES SHALL BE INSTALLED AT CREEK CROSSINGS SO AS TO PREVENT SEDIMENT FROM ENTERING THEREIN.
6. STABILIZED CONSTRUCTION ENTRANCES SHALL BE PROVIDED, AS NEEDED, TO PREVENT MUD FROM TRACKING ONTO STREETS NOT UNDER CONSTRUCTION AND ON STREETS WITHIN THE PROJECT LIMITS IF TRAFFIC IS BEING MAINTAINED THROUGH THE PROJECT.
7. ANY MUD TRACKED ONTO STREETS MUST BE REMOVED AT THE END OF EACH WORK DAY.
8. THE CONTACTOR WILL BE REQUIRED TO PLACE EROSION CONTROL DEVICES BACK OF CURB, WHENEVER WATER CAN DRAIN OVER CURB, TO KEEP ERODED SOIL OUT OF THE GUTTERLINES, IN ACCORDANCE WITH THE FOLLOWING:
   A. THE DEVICE REQUIRED WILL BE APPROVED EROSION CONTROL MAT LISTED ON THE CITY'S APPROVED MATERIAL LIST. SAID BLANKET SHALL BE PLACED OVER THE APPROPRIATE SEED AND FERTILIZER, AS SPECIFIED IN THE PROJECT SPECIFICATIONS. (SEE SOIL EROSION BMPs – BACK OF CURB SEDIMENT BARRIER DETAILS)
   B. THIS DEVICE SHALL BE INSTALLED IMMEDIATELY WHENEVER THE CURB IS BACKFILLED TO WITHIN 3" OF THE TOP OF CURB. (SEE CURB BACKFILL DETAIL) OTHER BMP'S MAY BE REQUIRED AT LOCATIONS WHERE CONCENTRATED FLOW CARRIES SEDIMENT OVER THE CURB.
   C. ADDITIONALLY, OTHER EROSION CONTROL DEVICES (HAY BALES, SILT FENCE, ETC.) WILL BE INSTALLED AT LOCATIONS OF CONCENTRATED FLOW RESULTING IN SEDIMENT OVERRUNNING THE MAT.
   D. SHOULD THE PROJECT PLANS SPECIFY THAT THE RIGHT–OF–WAY IS TO BE SODDED, THE EXCELSIOR MAT WILL NOT BE REQUIRED SO LONG AS THE SOD IS PLACED WITHIN 48 HOURS AFTER CURB BACKFILL REACHES A HEIGHT OF 3" OR LESS FROM TOP OF CURB. (SEE CURB BACKFILL DETAIL)

GARY L. JANZEN LICENSED 16294 KANSAS PROFESSIONAL ENGINEER

REVISION: JUNE 2015

CITY OF WICHITA
PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION

STREET IMPROVEMENT PROJECTS

CITY ENGINEER
GARY JANZEN, P.E.

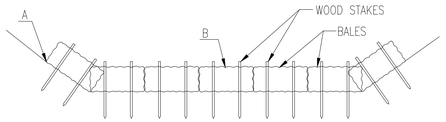
PROJECT NUMBER	OCA NUMBER	DATE
482–11068		

CITY ENGINEER'S OFFICE
CITY HALL - SEVENTH FLOOR
455 NORTH MAIN STREET
WICHITA, KANSAS 67202-1620
(316) 268-4501

SHEET
48 of 104

SW–504

NOTE: POINT A MUST BE HIGHER THAN POINT B SO THAT WATER FLOWS OVER THE BALES AND NOT AROUND THEM.



STRAW BALE DITCH CHECKS

MATERIAL SPECIFICATION:

BALE DITCH CHECKS MAY BE CONSTRUCTED OF WHEAT STRAW, OAT STRAW, PRAIRIE HAY, OR BROMEGRASS HAY THAT IS FREE OF WEEDS DECLARED NOXIOUS BY THE KANSAS STATE BOARD OF AGRICULTURE.
THE STAKES USED TO ANCHOR THE BALES SHOULD BE A HARDWOOD MATERIAL WITH THE FOLLOWING MINIMUM DIMENSIONS: 2" SQUARE (NOMINAL) BY 4' LONG.
OPTIONAL: THE DOWNSTREAM SCOUR APRON SHOULD BE CONSTRUCTED OF A DOUBLE-NETTED STRAW EROSION-CONTROL BLANKET AT LEAST 6' WIDE.
OPTIONAL: THE METAL LANDSCAPE STAPLES USED TO ANCHOR THE EROSION-CONTROL BLANKET SHOULD BE AT LEAST 8" LONG.

PLACEMENT:

BALE DITCH CHECKS SHOULD BE PLACED PERPENDICULAR TO THE FLOWLINE OF THE DITCH.
THE DITCH CHECK SHOULD EXTEND FAR ENOUGH SO THAT THE GROUND LEVEL AT THE ENDS OF THE CHECK IS HIGHER THAN THE TOP OF THE LOWEST CENTER BALE. THIS PREVENTS WATER FROM FLOWING AROUND THE CHECK.
STRAW BALE DITCH CHECKS SHOULD NOT BE PLACED IN DITCHES WHERE HIGH FLOWS ARE EXPECTED. ROCK CHECKS SHOULD BE USED INSTEAD.
BALES SHOULD BE PLACED IN DITCHES WITH SLOPES OF 6% OR LESS. FOR SLOPES STEEPER THAN 6%, ROCK CHECKS SHOULD BE USED.
THE FOLLOWING TABLE PROVIDES CHECK SPACING FOR A GIVEN DITCH GRADE:

DITCH CHECK SPACING

DITCH GRADE (%)	CHECK SPACING (FEET)
0.5	200
1.0	200
2.0	100
3.0	65
4.0	50
5.0	40
6.0	30

PROPER INSTALLATION METHOD:

EXCAVATE A TRENCH PERPENDICULAR TO THE DITCH FLOWLINE THAT IS 4" DEEP AND A BALE'S WIDTH WIDE. EXTEND THE TRENCH IN A STRAIGHT LINE ALONG THE ENTIRE LENGTH OF THE PROPOSED DITCH CHECK. PLACE THE SOIL ON THE UPSTREAM SIDE OF THE TRENCH-IT WILL BE USED LATER.
OPTIONAL: ON THE DOWNSTREAM SIDE OF THE TRENCH, ROLL OUT A LENGTH OF EROSION-CONTROL BLANKET (SCOUR APRON) EQUAL TO THE LENGTH OF THE TRENCH. PLACE THE UPSTREAM EDGE OF THE EROSION-CONTROL BLANKET ALONG THE BOTTOM UPSTREAM EDGE OF THE TRENCH. THE EROSION CONTROL BLANKET SHOULD BE ANCHORED IN THE TRENCH WITH ONE ROW OF 8" LANDSCAPE STAPLES PLACED ON 18" CENTERS. THE REMAINDER OF THE EROSION-CONTROL BLANKET (THE PORTION THAT IS NOT LYING IN THE TRENCH) WILL SERVE AS THE DOWNSTREAM SCOUR APRON. THIS SECTION OF THE BLANKET SHOULD BE ANCHORED TO THE GROUND WITH 8" LANDSCAPE STAPLES PLACED AROUND THE PERIMETER OF THE BLANKET ON 18" CENTERS. THE REMAINDER OF THE BLANKET SHOULD BE ANCHORED USING TWO EVENLY SPACED ROWS OF 8" LANDSCAPE STAPLES ON 18" CENTERS PLACED PERPENDICULAR TO THE FLOWLINE OF THE DITCH.
PLACE THE BALES IN THE TRENCH, MAKING SURE THAT THEY ARE BUTTED TIGHTLY. TWO STAKES SHOULD BE DRIVEN THROUGH EACH BALE ALONG THE CENTERLINE OF THE DITCH CHECK, APPROXIMATELY 6" TO 8" IN FROM THE BALE ENDS. STAKES SHOULD BE DRIVEN AT LEAST 12" INTO THE GROUND.
ONCE ALL THE BALES HAVE BEEN INSTALLED AND ANCHORED, PLACE THE EXCAVATED SOIL AGAINST THE UPSTREAM SIDE OF THE CHECK AND COMPACT IT. THE COMPACTED SOIL SHOULD BE NO MORE THAN 3" TO 4" DEEP AND EXTEND UPSTREAM NO MORE THAN 24".

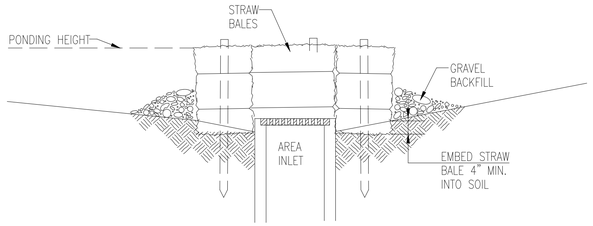
LIST OF COMMON PLACEMENT/INSTALLATION MISTAKES TO AVOID:

DO NOT PLACE A BALE DITCH CHECK DIRECTLY IN FRONT OF A CULVERT OUTLET. IT WILL NOT STAND UP TO THE CONCENTRATED FLOW.
DO NOT PLACE BALE DITCH CHECKS IN DITCHES THAT WILL LIKELY EXPERIENCE HIGH FLOWS. THEY WILL NOT STAND UP TO CONCENTRATED FLOW.
FOLLOW PRESCRIBED DITCH-CHECK SPACING GUIDELINES. IF SPACING GUIDELINES ARE EXCEEDED, EROSION WILL OCCUR BETWEEN THE DITCH CHECKS.
DO NOT ALLOW WATER TO FLOW AROUND THE DITCH CHECK. MAKE SURE THAT THE DITCH CHECK IS LONG ENOUGH SO THAT THE GROUND LEVEL AT THE ENDS OF THE CHECK IS HIGHER THAN THE TOP OF THE LOWEST CENTER BALE.
DO NOT PLACE BALE DITCH CHECKS IN CHANNELS WITH SHALLOW SOILS UNDERLAIN BY ROCK. IF THE CHECK IS NOT ANCHORED SUFFICIENTLY, IT WILL WASH OUT.
BALE DITCH CHECKS MUST BE DUG INTO THE GROUND. BALES AT GROUND LEVEL DO NOT WORK BECAUSE THEY ALLOW WATER TO FLOW UNDER THE CHECK.

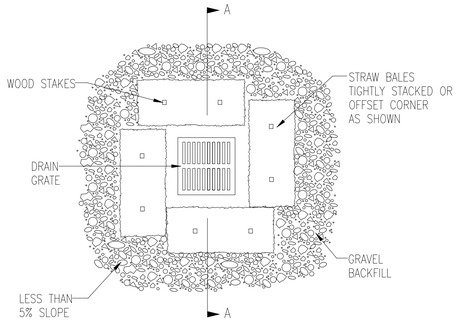
INSPECTION AND MAINTENANCE:

BALE DITCH CHECKS SHOULD BE INSPECTED EVERY 7 DAYS AND WITHIN 24 HOURS OF A RAINFALL OF 1/2" OR MORE. THE FOLLOWING IS A LIST OF QUESTIONS THAT SHOULD BE ADDRESSED DURING EACH INSPECTION:

DOES WATER FLOW AROUND THE DITCH CHECK?
DOES WATER FLOW UNDER THE DITCH CHECK?
DOES WATER FLOW THROUGH SPACES BETWEEN ABUTTING BALES?
ARE ANY BALES AND/OR SCOUR APRONS (OPTIONAL) DISLODGED?
ARE BALES DECOMPOSING DUE TO AGE AND/OR WATER DAMAGE?
DOES SEDIMENT NEED TO BE REMOVED FROM BEHIND THE DITCH CHECK?



SECTION A-A



STRAW BALE BARRIERS FOR AREA INLETS
(INLET PROTECTION)

MATERIAL SPECIFICATION:

BALE AREA INLET BARRIERS SHOULD BE CONSTRUCTED OF WHEAT STRAW, OAT STRAW, PRAIRIE HAY, OR BROMEGRASS HAY THAT IS FREE OF WEEDS DECLARED NOXIOUS BY THE KANSAS STATE BOARD OF AGRICULTURE.
THE STAKES USED TO ANCHOR THE BALES SHOULD BE A HARDWOOD MATERIAL WITH THE FOLLOWING MINIMUM DIMENSIONS: 2" SQUARE (NOMINAL) BY 4' LONG.
TWINE SHOULD BE USED TO BIND BALES. THE USE OF WIRE BINDING IS PROHIBITED BECAUSE IT DOES NOT BIODEGRADE READILY.

PLACEMENT:

BALE AREA INLET BARRIERS SHOULD BE PLACED DIRECTLY AROUND THE PERIMETER OF A DROP INLET.
WHEN A BALE AREA INLET BARRIER IS LOCATED NEAR AN INLET THAT HAS STEEP APPROACH SLOPES, THE STORAGE CAPACITY BEHIND THE BARRIER IS DRASTICALLY REDUCED. TIMELY REMOVAL OF SEDIMENT MUST OCCUR FOR A BARRIER TO OPERATE PROPERLY IN THIS LOCATION.

PROPER INSTALLATION METHOD:

EXCAVATE A TRENCH AROUND THE PERIMETER OF THE AREA INLET THAT IS AT LEAST 4" DEEP BY A BALE'S WIDTH WIDE.
PLACE THE BALES IN THE TRENCH, MAKING SURE THAT THEY ARE BUTTED TIGHTLY. SOME BALES MAY NEED TO BE SHORTENED TO FIT INTO THE TRENCH AROUND THE AREA INLET. TWO STAKES SHOULD BE DRIVEN THROUGH EACH BALE, APPROXIMATELY 6" TO 8" IN FROM THE BALE ENDS.
STAKES SHOULD BE DRIVEN AT LEAST 12" INTO THE GROUND.
ONCE ALL THE BALES HAVE BEEN INSTALLED AND ANCHORED, PLACE THE EXCAVATED SOIL AGAINST THE RECEIVING SIDE OF THE BARRIER AND COMPACT IT. THE COMPACTED SOIL SHOULD BE NO MORE THAN 3" TO 4" DEEP.
NOTE: WHEN A BALE AREA INLET BARRIER IS PLACED IN A SHALLOW MEDIAN DITCH, MAKE SURE THAT THE TOP OF THE BARRIER IS NOT HIGHER THAN THE PAVED ROAD. IN THIS CONFIGURATION, WATER MAY SPREAD ONTO THE ROADWAY CAUSING A HAZARDOUS CONDITION.

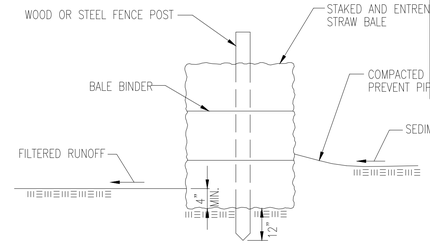
LIST OF COMMON PLACEMENT INSTALLATION MISTAKES TO AVOID:

BALES SHOULD BE PLACED DIRECTLY AGAINST THE PERIMETER OF THE AREA INLET. THIS ALLOWS OVERTOPPING WATER TO FLOW DIRECTLY INTO THE INLET INSTEAD OF ONTO NEARBY SOIL CAUSING SCOUR.
BALE AREA INLET BARRIERS MUST BE DUG INTO THE GROUND. BALES AT GROUND LEVEL DO NOT WORK BECAUSE THEY ALLOW WATER TO FLOW UNDER THE BARRIER.

INSPECTION AND MAINTENANCE:

BALE AREA INLET BARRIERS SHOULD BE INSPECTED EVERY 7 DAYS AND WITHIN 24 HOURS OF A RAINFALL 1/2" OR MORE. THE FOLLOWING IS A LIST OF QUESTIONS THAT SHOULD BE ADDRESSED DURING EACH INSPECTION:

DOES WATER FLOW UNDER THE AREA INLET BARRIER?
DOES WATER FLOW THROUGH SPACES BETWEEN ABUTTING BALES?
ARE ANY BALES DISLODGED?
ARE BALES DECOMPOSING DUE TO AGE AND/OR WATER DAMAGE?
DOES SEDIMENT NEED TO BE REMOVED FROM BEHIND THE AREA INLET BARRIER?



STRAW BALE BARRIERS

MATERIAL SPECIFICATION:

BALE SLOPE BARRIERS MAY BE CONSTRUCTED OF WHEAT STRAW, OAT STRAW, PRAIRIE HAY, OR BROMEGRASS HAY THAT IS FREE OF WEEDS DECLARED NOXIOUS BY THE KANSAS STATE BOARD OF AGRICULTURE.
THE STAKES USED TO ANCHOR THE BALES SHOULD BE A HARDWOOD MATERIAL WITH THE FOLLOWING MINIMUM DIMENSIONS: 2" SQUARE (NOMINAL) BY 4' LONG.
TWINE SHOULD BE USED TO BIND BALES. THE USE OF WIRE BINDING IS PROHIBITED BECAUSE IT DOES NOT BIODEGRADE READILY.

PLACEMENT:

A SLOPE BARRIER SHOULD BE USED AT THE TOE OF A SLOPE WHEN A DITCH DOES NOT EXIST. THE SLOPE BARRIER SHOULD BE PLACED ON NEARLY LEVEL GROUND 5' TO 10' AWAY FROM THE TOE OF A SLOPE. THE BARRIER IS PLACED AWAY FROM THE TOE OF THE SLOPE TO PROVIDE ADEQUATE STORAGE FOR SETTLING OUT SEDIMENT.
WHEN PRACTICABLE, BALE SLOPE BARRIERS SHOULD BE PLACED ALONG CONTOURS TO AVOID A CONCENTRATION OF FLOW.
BALE SLOPE BARRIERS CAN ALSO BE PLACED ALONG RIGHT-OF-WAY FENCE LINES TO KEEP SEDIMENT FROM CROSSING ONTO ADJACENT PROPERTY. WHEN PLACED IN THIS MANNER, THE SLOPE BARRIER WILL NOT LIKELY FOLLOW CONTOURS.

PROPER INSTALLATION METHOD:

EXCAVATE A TRENCH THE LENGTH OF THE PLANNED SLOPE BARRIER THAT IS 4" DEEP AND A BALE'S WIDTH WIDE. MAKE SURE THAT THE TRENCH IS EXCAVATED ALONG A SINGLE CONTOUR. WHEN PRACTICABLE, SLOPE BARRIERS SHOULD BE PLACED ALONG CONTOURS TO AVOID A CONCENTRATION OF FLOW. PLACE THE SOIL ON THE UPSLOPE SIDE OF THE TRENCH FOR LATER USE.
PLACE THE BALES IN THE TRENCH, MAKING SURE THAT THEY ARE BUTTED TIGHTLY. TWO STAKES SHOULD BE DRIVEN THROUGH EACH BALE ALONG THE CENTERLINE OF THE DITCH CHECK, APPROXIMATELY 6" TO 8" IN FROM THE BALE ENDS. STAKES SHOULD BE DRIVEN AT LEAST 12" INTO THE GROUND.
ONCE ALL THE BALES HAVE BEEN INSTALLED AND ANCHORED, PLACE THE EXCAVATED SOIL AGAINST THE UPSLOPE SIDE OF THE CHECK AND COMPACT IT. THE COMPACTED SOIL SHOULD BE NO MORE THAN 3" TO 4" DEEP.

LIST OF COMMON PLACEMENT/INSTALLATION MISTAKES TO AVOID:

WHEN PRACTICAL, DO NOT PLACE BALE SLOPE BARRIERS ACROSS CONTOURS. SLOPE BARRIERS SHOULD BE PLACED ALONG CONTOURS TO AVOID A CONCENTRATION OF FLOW. CONCENTRATED FLOW OVER A SLOPE BARRIER CREATES A SCOUR HOLE ON THE DOWNSLOPE SIDE OF THE BARRIER. THE SCOUR HOLE EVENTUALLY UNDERMINES THE BALES AND THE BARRIER FAILS.
DO NOT PLACE BALE SLOPE BARRIERS IN AREAS WITH SHALLOW SOILS UNDERLAIN BY ROCK. IF THE BARRIER IS NOT ANCHORED SUFFICIENTLY, IT WILL WASH OUT.
BALE SLOPE BARRIERS MUST BE DUG INTO THE GROUND. BALES AT GROUND LEVEL DO NOT WORK BECAUSE THEY ALLOW WATER TO FLOW UNDER THE BARRIER.

INSPECTION AND MAINTENANCE:

BALE SLOPE BARRIERS SHOULD BE INSPECTED EVERY 7 DAYS AND WITHIN 24 HOURS OF A RAINFALL OF 1/2" OR MORE. THE FOLLOWING IS A LIST OF QUESTIONS THAT SHOULD BE ADDRESSED DURING EACH INSPECTION:

ARE THERE ANY POINTS ALONG THE SLOPE BARRIER WHERE WATER IS CONCENTRATING?
DOES WATER FLOW UNDER THE SLOPE BARRIER?
DOES WATER FLOW THROUGH SPACES BETWEEN ABUTTING BALES?
ARE ANY BALES DISLODGED?
ARE BALES DECOMPOSING DUE TO AGE AND/OR WATER DAMAGE?
DOES SEDIMENT NEED TO BE REMOVED FROM BEHIND THE SLOPE BARRIER?

Wichita-Sedgwick County Metropolitan Area Building and Construction Department
REVIEWED FOR CODE COMPLIANCE
CORRECTIONS OR COMMENTS MADE ON THESE DRAWINGS AND THIS DOCUMENT DURING THIS REVIEW DO NOT RELIEVE CONTRACTOR FROM COMPLIANCE WITH ALL REQUIREMENTS OF THIS CODE OR THE MASTER, THE CITY OF WICHITA OR SEDGWICK COUNTY. IN ADDITION TO THE REQUIREMENTS OF THIS CODE, THE CONTRACTOR IS RESPONSIBLE FOR CONFORMING AND OPERATING ALL TECHNIQUES OF CONSTRUCTION. THIS APPROVAL IS SUBJECT TO PROVISIONS OF SECTION 107.4 OF THE INTERNATIONAL BUILDING CODE.
DATE: 3/14/2026 BY: Keri Jacobs

REVISION DATE: MAY 2013

CITY OF WICHITA
PUBLIC WORKS & UTILITIES ENGINEERING DIVISION

STRAW BALE DITCH CHECK AND BARRIER DETAILS

CITY ENGINEER
GARY JANZEN, P.E.

PROJECT NUMBER	OCA NUMBER	DATE
482-11068		

CITY ENGINEER'S OFFICE
CITY HALL - SEVENTH FLOOR
455 NORTH MAIN STREET
WICHITA, KANSAS 67202-1620
(316) 268-4501

SHEET
49 of 104

SW-503

STATE		PROJECT	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS		482-11068	2026	50	104

Wichita-Sedgwick County Metropolitan Area Building and Construction Department

REVIEWED FOR CODE COMPLIANCE

THIS DOCUMENT IS REVIEWED FOR GENERAL COMPLIANCE WITH THE CODES ADOPTED BY THE CITY OF WICHITA AND THIS DOCUMENT DURING THIS REVIEW. DO NOT RELIEVE CONTRACTOR FROM COMPLIANCE WITH ALL REQUIREMENTS OF THESE CODES. OR THE MARCH, THE CITY OF WICHITA OR ITS OFFICERS OR EMPLOYEES ASSUME NO LEGAL OR FINANCIAL RESPONSIBILITY FOR CONFORMANCE OF THE CONSTRUCTION WITH THE CODES. THE CONTRACTOR IS RESPONSIBLE FOR CONFORMING AND COORDINATING ALL TECHNIQUES OF CONSTRUCTION. THIS APPROVAL IS SUBJECT TO PROVISIONS OF SECTION 107.4 OF THE INTERNATIONAL BUILDING CODE.

DATE: 3/14/2026 BY: Keri Jacobs

HOOVER RD

ON-RAMP EB K-96

K-96 WB OFF-RAMP

HOOVER RD

KOLLMEYER ST

Match Line

SCALE IN FEET

50 0 50 100

PLAN: Lat. & Long.

FROJ ST

HOOVER RD

457TH ST

Match Line

TOTAL IMPERVIOUS AREA
(PRE-CONSTRUCTION)

Exist. Impervious Area to be remain or be replaced (1849 S.F. or 0.04 acres)

TOTAL IMPERVIOUS AREA
(POST-CONSTRUCTION)

Proposed New Impervious Area (59,784 S.F. or 1.37 acres)

J:\2016Proj\161006\2024 Trail\Ph 1\CADD\161006 EUR Plan.dwg 3/05/2026 - 7:39am

NO.	DATE:	REVISION	BY:	APP'D

DRAWN BY: JMD

APP'D BY: DWH

CFS ENGINEERS

DANIEL W. HOLLOWAY 15360 KANSAS PROFESSIONAL ENGINEER 3-5-26

ADAM PROHASKA LICENSED 31453 KANSAS PROFESSIONAL ENGINEER 3-5-26

CITY OF WICHITA

MULTI-USE TRAIL
CRYSTAL PRAIRIE LAKE PARK
PHASE I
482-11068 (R2000)(R5006), 472-2026-086248, 458-2025-085639
WICHITA, KS

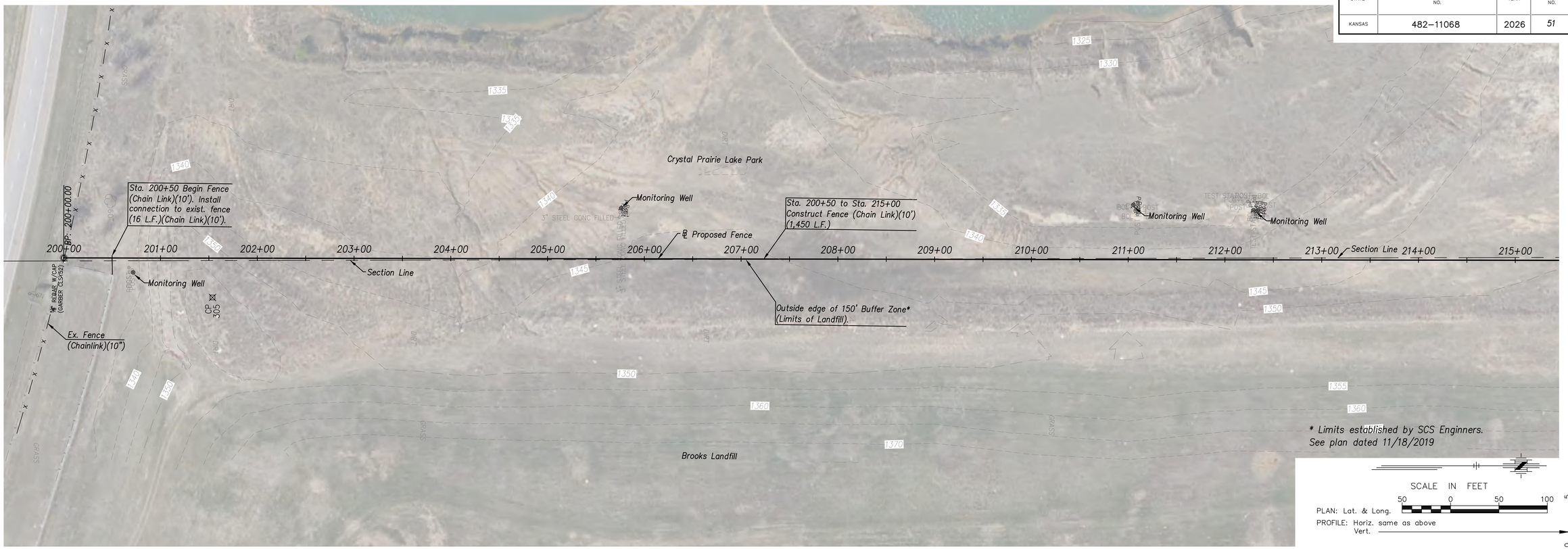
EUR Plan

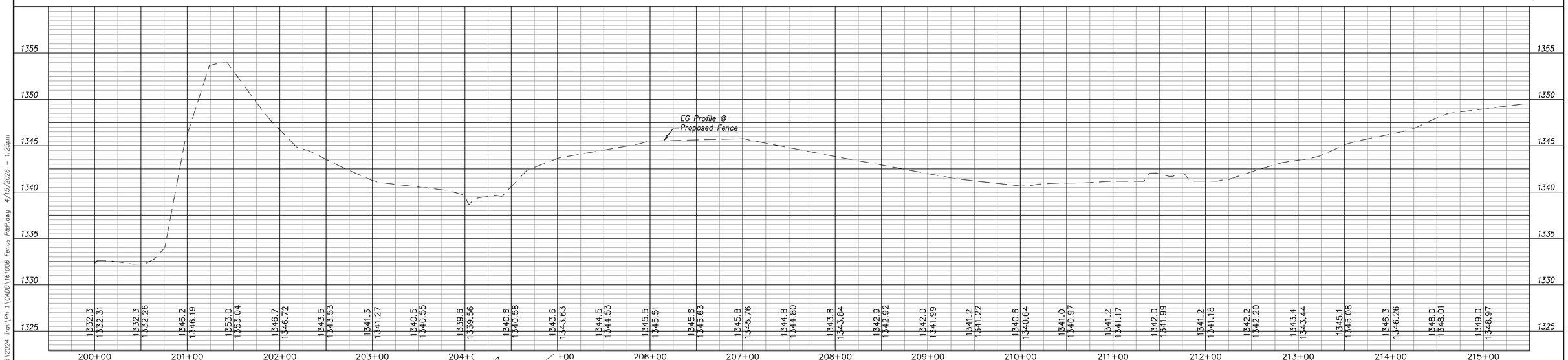
DATE: Feb. 2026

SHEET: 50 of 104

PROJ.: 16-1006

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	482-11068	2026	51	104





NO.	DATE:	REVISION	BY:	APP'D

DRAWN BY: JMD

APP'D BY: DWH

CFS ENGINEERS

DANIEL W. HOLLOWAY — LICENSED — 15360 — KANSAS — PROFESSIONAL ENGINEER — 11-5-26

ADAM PROHASKA — LICENSED — 31453 — KANSAS — PROFESSIONAL ENGINEER — 11-5-26

CITY OF WICHITA

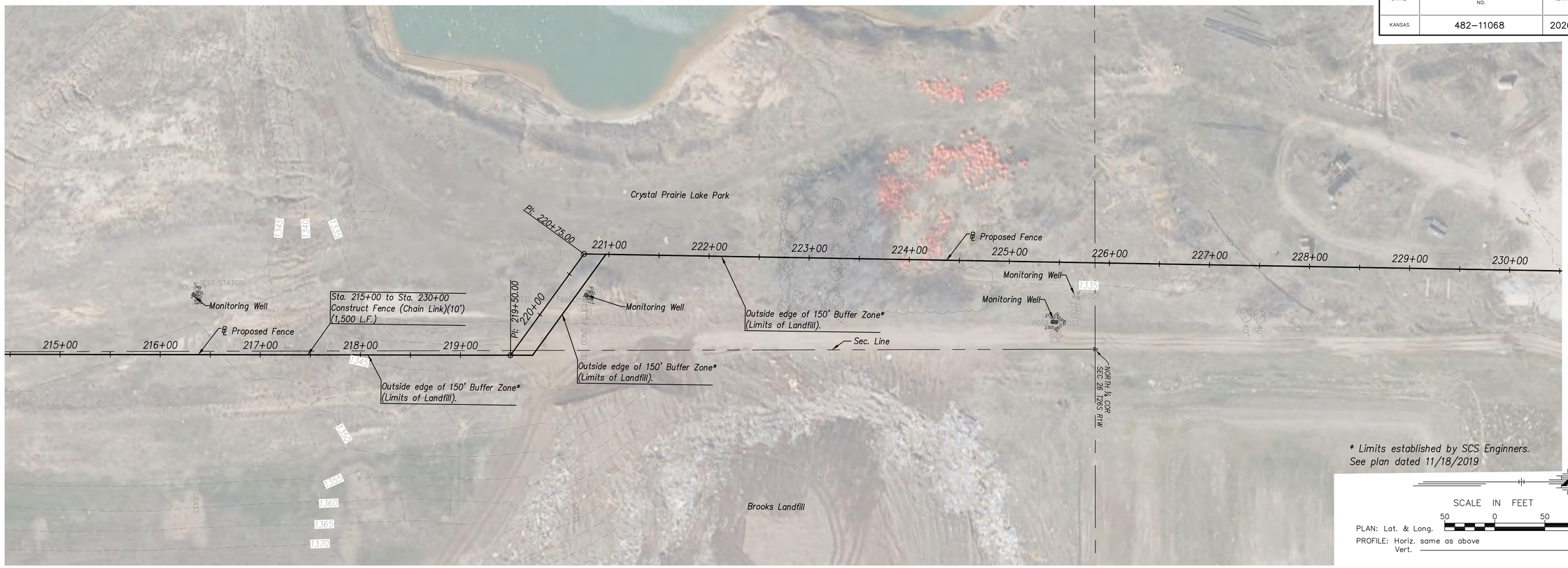
MULTI-USE TRAIL
CRYSTAL PRAIRIE LAKE PARK
PHASE I
482-11068 (R2000)(R5006), 472-2026-086248, 458-2025-085639
WICHITA, KS

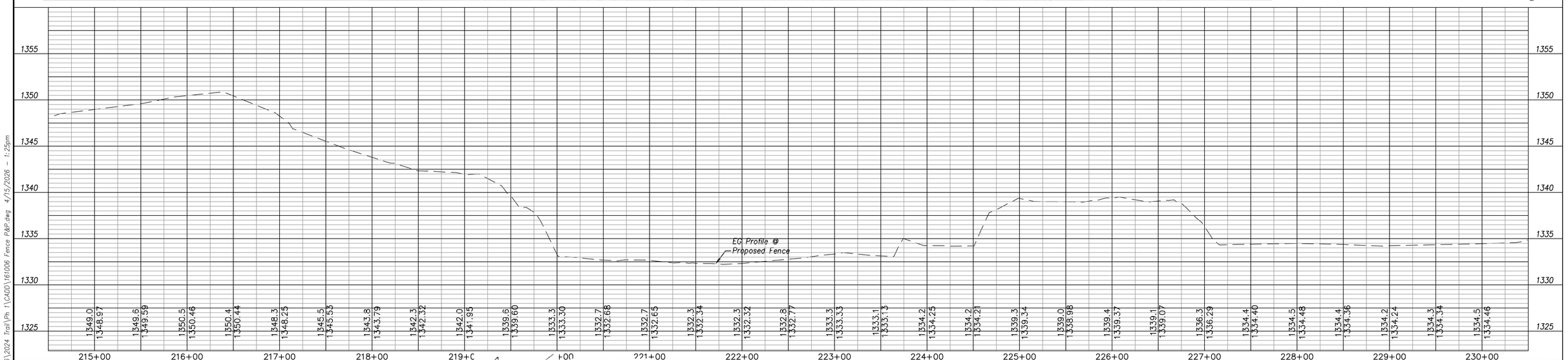
BROOKS LANDFILL
FENCE
PLAN & PROFILE
Sta. 200+00.00 to Sta. 215+00.00

DATE: Feb. 2026
SHEET: 51 of 104
PROJ.: 16-1006

J:\2016Proj\161006\2024 Trail\Ph 1\CADD\161006 Fence P&P.dwg 4/15/2026 - 1:25pm

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	482-11068	2026	52	104





NO.	DATE:	REVISION	BY:	APP'D

DRAWN BY: JMD

APP'D BY: DWH

CFS ENGINEERS

DANIEL W. HOLLOWAY — LICENSED PROFESSIONAL ENGINEER — #15360 — 11-5-26 — KANSAS

ADAM PROHASKA — LICENSED — Kansas Projection — 31453 — 11-5-26 — KANSAS PROFESSIONAL ENGINEER

CITY OF WICHITA

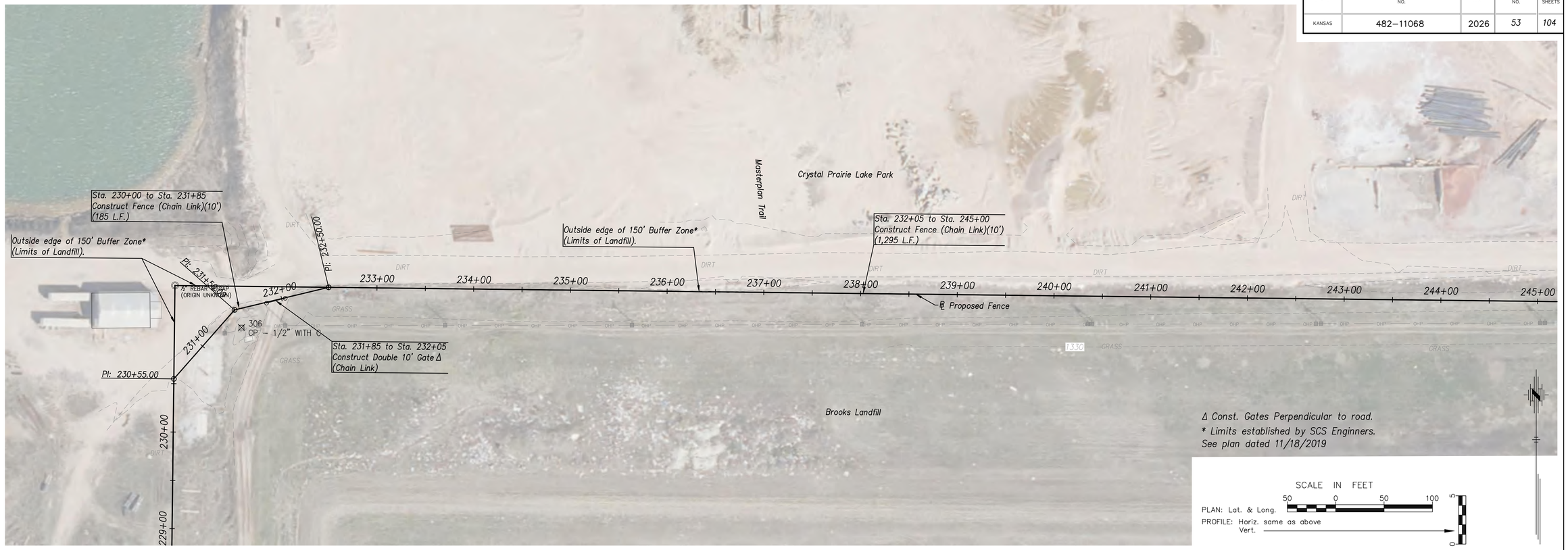
MULTI-USE TRAIL
CRYSTAL PRAIRIE LAKE PARK
PHASE I
482-11068 (R2000)(R5006), 472-2026-086248, 458-2025-085639
WICHITA, KS

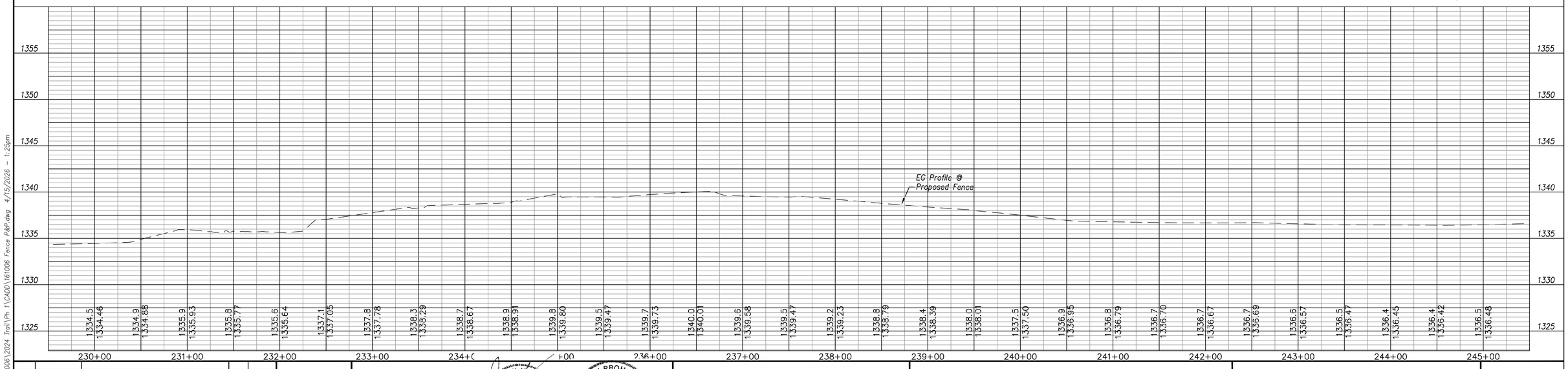
BROOKS LANDFILL
FENCE
PLAN & PROFILE
Sta. 215+00.00 to Sta. 230+00.00

DATE: Feb. 2026
SHEET: 52 of 104
PROJ.: 16-1006

J:\2016Proj\161006\2024 Trail\Ph 1\CADD\161006 Fence P&P.dwg 4/15/2026 - 1:25pm

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	482-11068	2026	53	104





J:\2016Proj\161006\2024 Trail\Ph 1\CADD\161006 Fence P&P.dwg 4/15/2026 - 1:25pm

NO.	DATE:	REVISION	BY:	APP'D

DRAWN BY: JMD

APP'D BY: DWH

CFS ENGINEERS

DANIEL W. HOLLOWAY — 15360 — 3-5-26 — KANSAS — PROFESSIONAL ENGINEER

ADAM PROHASKA — LICENSED — 31453 — 3-5-26 — KANSAS — PROFESSIONAL ENGINEER

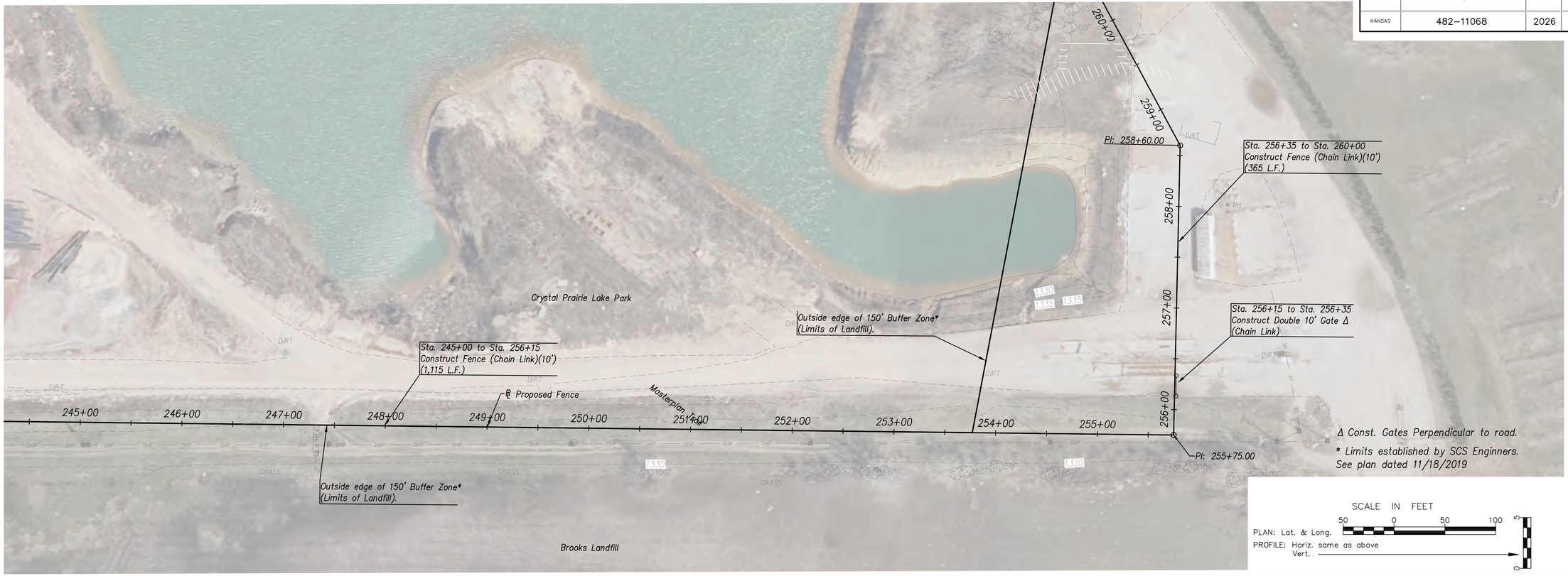
CITY OF WICHITA

MULTI-USE TRAIL
CRYSTAL PRAIRIE LAKE PARK
PHASE I
482-11068 (R2000)(R5006), 472-2026-086248, 458-2025-085639
WICHITA, KS

BROOKS LANDFILL
FENCE
PLAN & PROFILE
Sta. 230+00.00 to Sta. 245+00.00

DATE: Feb. 2026
SHEET: 53 of 104
PROJ.: 16-1006

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	482–11068	2026	54	104



Δ Const. Gates Perpendicular to road.

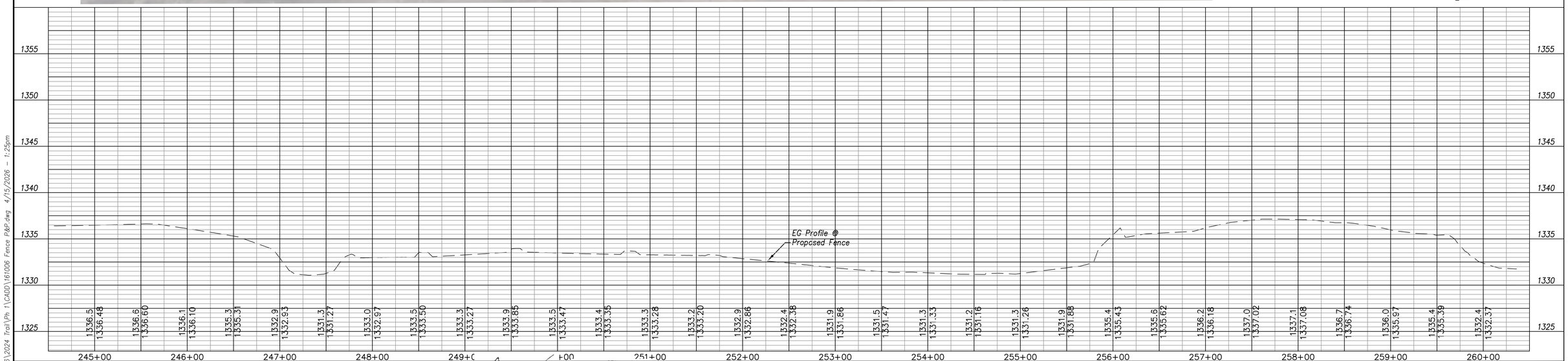
* Limits established by SCS Enginners. See plan dated 11/18/2019

SCALE IN FEET

50 0 50 100

PLAN: Lat. & Long.

PROFILE: Horiz. same as above
Vert.



J:\2016Proj\161006\2024 Trail\Ph 1\CADD\161006 Fence P&P.dwg 4/15/2026 - 1:25pm

NO.	DATE:	REVISION	BY:	APP'D

DRAWN BY: JMD

APP'D BY: DWH

CFS ENGINEERS

DANIEL V. HOLLOWAY — 15360 — LICENSED PROFESSIONAL ENGINEER — 3-5-26 — KANSAS

ADAM PROHASKA — LICENSED — 31453 — PROFESSIONAL ENGINEER — 3-5-26 — KANSAS

CITY OF WICHITA

MULTI-USE TRAIL
CRYSTAL PRAIRIE LAKE PARK
PHASE I
482-11068 (R2000)(R5006), 472-2026-086248, 458-2025-085639
WICHITA, KS

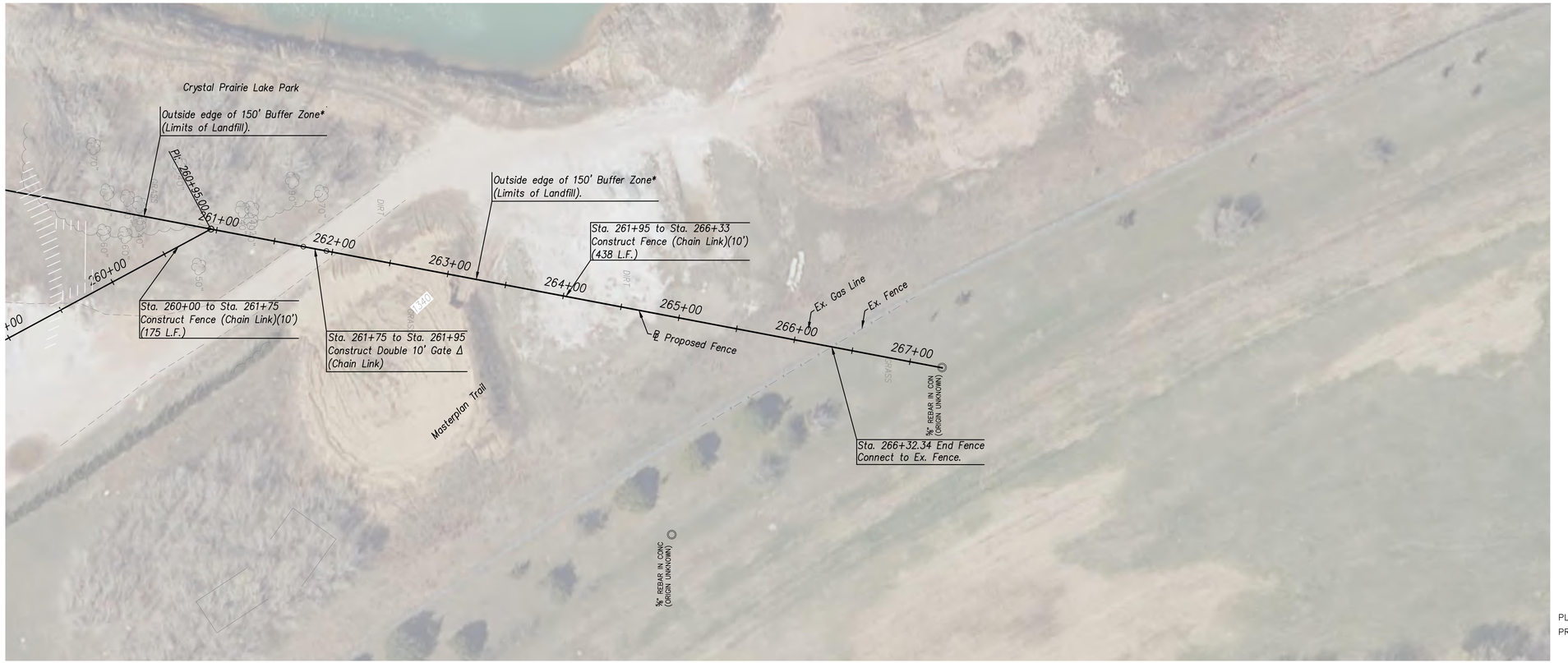
BROOKS LANDFILL
FENCE
PLAN & PROFILE
Sta. 245+00.00 to Sta. 260+00.00

DATE: Feb. 2026

SHEET: 54 of 104

PROJ.: 16-1006

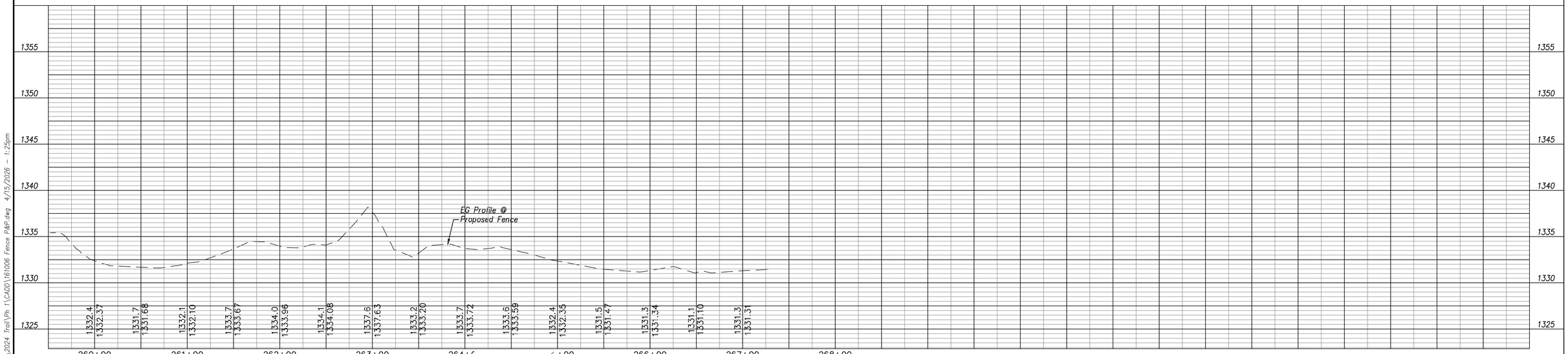
STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	482–11068	2026	55	104



Summary of Quantities	
Gate (Chain Link)(10')(10' Wide)	6 Each
Fence (Chain Link)(10')	6,523 L.F.

Δ Const. Gates Perpendicular to road.
* Limits established by SCS Enginners.
See plan dated 11/18/2019

SCALE IN FEET
50 0 50 100
PLAN: Lat. & Long.
PROFILE: Horiz. same as above
Vert. 5 0



NO.	DATE:	REVISION	BY:	APP'D

DRAWN BY: JMD
APP'D BY: DWH

CFS ENGINEERS

DANIEL W. HOLLOWAY — LICENSED — 15360 — 5-5-26 — KANSAS — PROFESSIONAL ENGINEER

ADAM PROHASKA — LICENSED — 31453 — 5-5-26 — KANSAS — PROFESSIONAL ENGINEER

CITY OF WICHITA

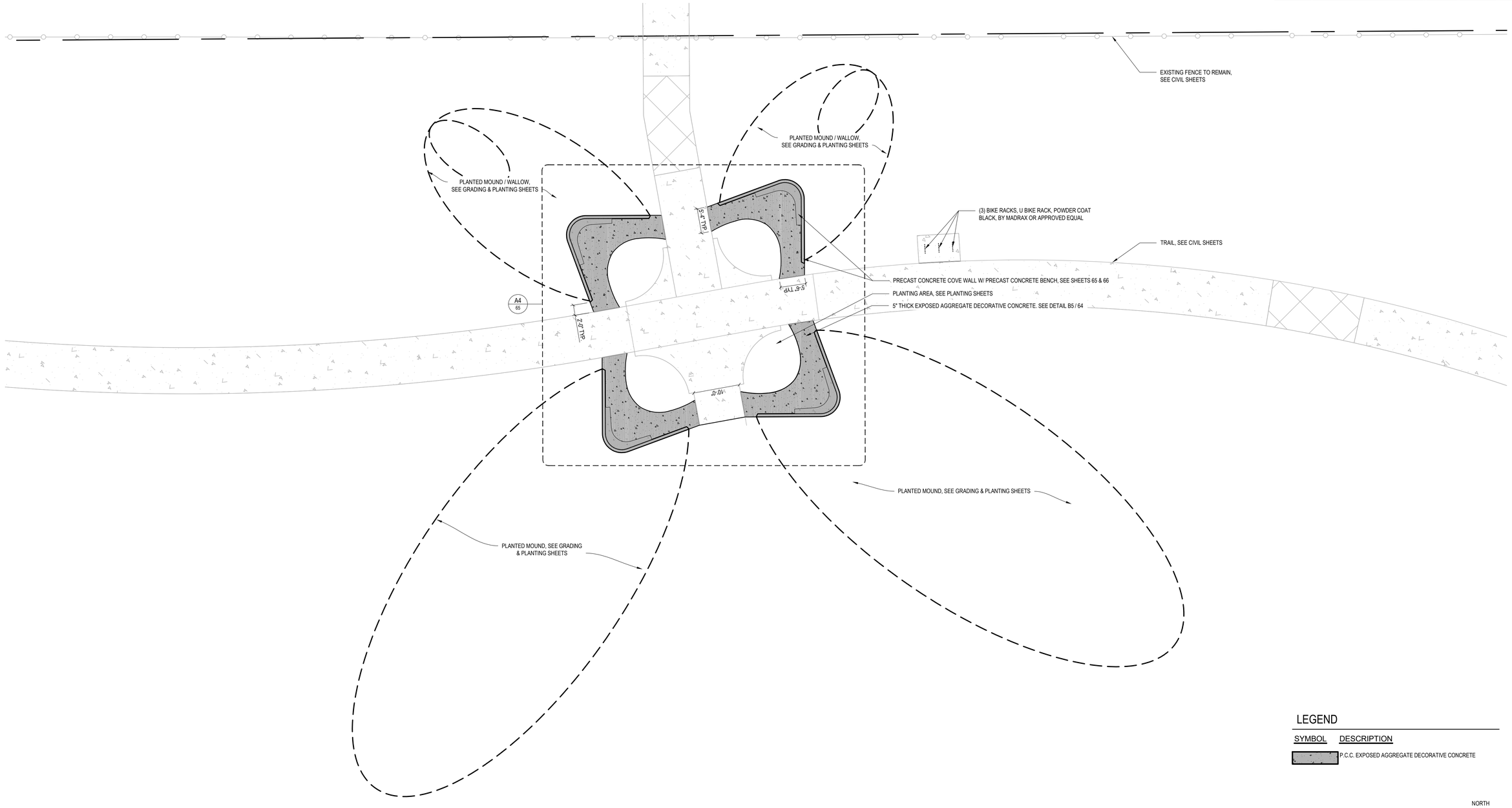
MULTI-USE TRAIL
CRYSTAL PRAIRIE LAKE PARK
PHASE I
482-11068 (R2000)(R5006), 472-2026-086248, 458-2025-085639
WICHITA, KS

BROOKS LANDFILL
FENCE
PLAN & PROFILE
Sta. 260+00.00 to Sta. 268+00.00

DATE: Feb. 2026
SHEET: 55 of 104
PROJ.: 16–1006

J:\2016Proj\161006\2024 Trail\Ph 1\CAD0\161006 Fence P&P.dwg 4/15/2026 – 1:25pm

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	16–1006	2026	56	104



LEGEND

SYMBOL	DESCRIPTION
	P.C.C. EXPOSED AGGREGATE DECORATIVE CONCRETE

0 10' 20'

NORTH

NO.	DATE:	REVISION	BY:	APP'D

DRAWN BY: AA

APP'D BY: CT

SCOTT ALEXANDER CRAWFORD LICENSED 03/05/2026 889 KANSAS LANDSCAPE ARCHITECT

RDg... PLANNING • DESIGN

CITY OF WICHITA

CRYSTAL PRAIRIE LAKE PARK
MULTI-USE TRAIL
PHASE I
WICHITA, KS

SITE LAYOUT PLAN

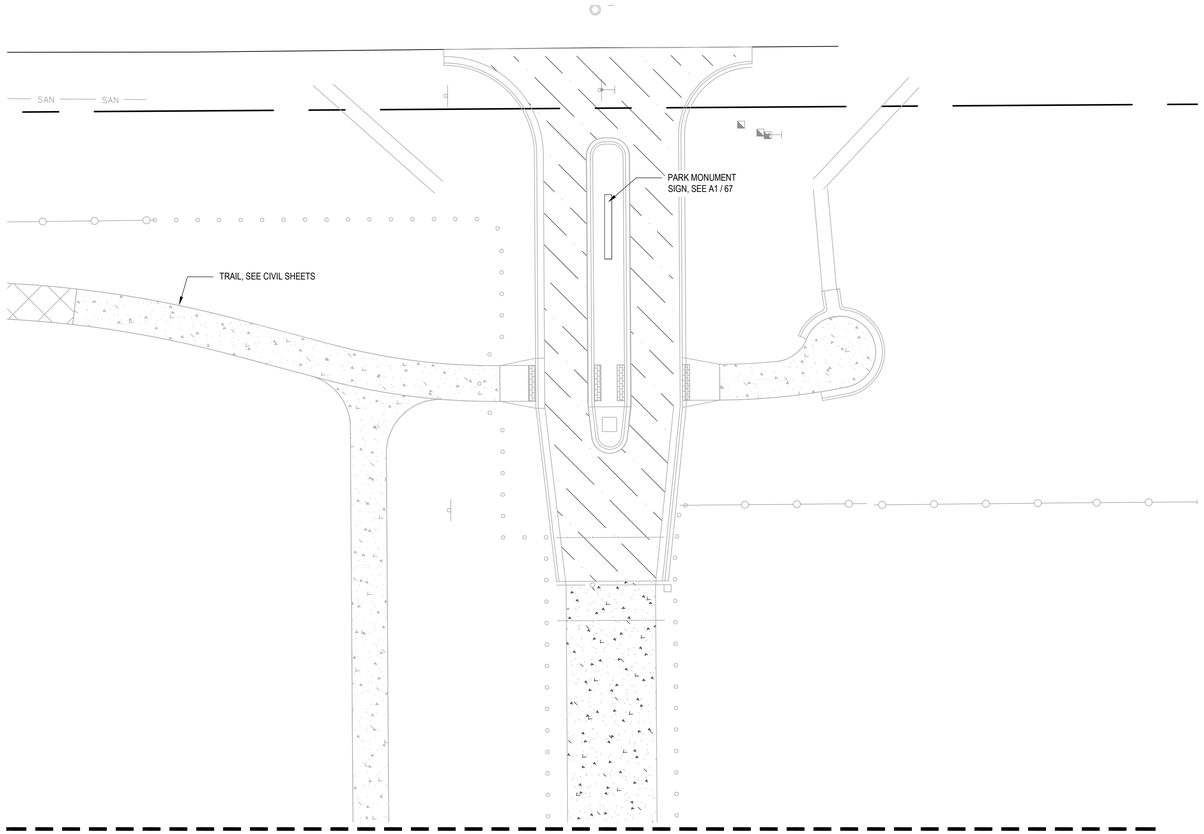
DATE: 2026

SHEET: 56 OF 104

PROJ.: 16–1006

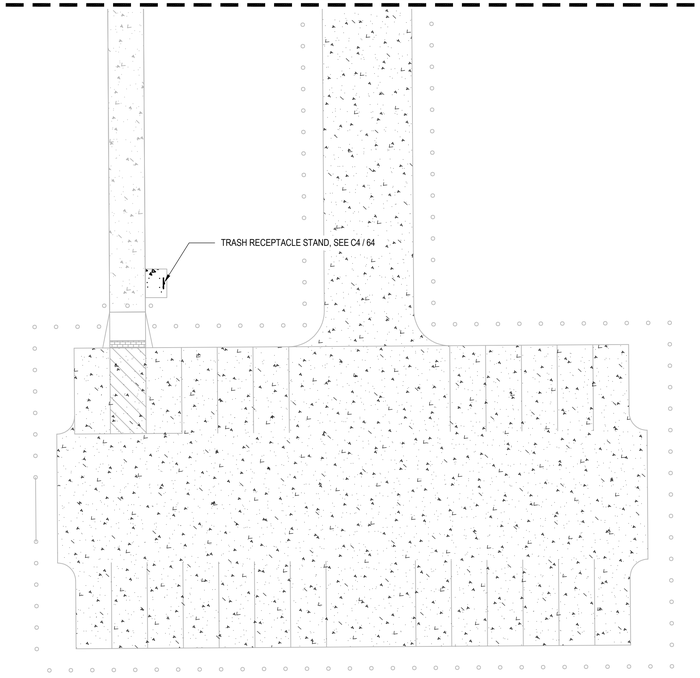
R: \Projects\3006\3006.905.00 Wichita, KS – Crystal Prairie Ph 1\8.0 BIM\R3006.905.00 – CADD\3006.905.00 L2 Site Layout.dwg 3/04/2026 – 8:27am

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	16–1006	2026	57	104



MATCHLINE, SEE THIS SHEET

MATCHLINE, SEE THIS SHEET



0 20' 40'

NORTH

R: \Projects\3006\3006.905.00 Wichita, KS – Crystal Prairie Ph 1\8.0 BIM\R3006.905.00 – CADD\3006.905.00 L2 Site Layout.dwg 3/04/2026 – 8:30am

NO.	DATE:	REVISION	BY:	APP'D

DRAWN BY: AA

APP'D BY: CT

SCOTT ALEXANDER CRAWFORD LICENSED 03/05/2026 889 KANSAS LANDSCAPE ARCHITECT

RDg PLANNING • DESIGN

CITY OF WICHITA

CRYSTAL PRAIRIE LAKE PARK
MULTI-USE TRAIL
PHASE I
WICHITA, KS

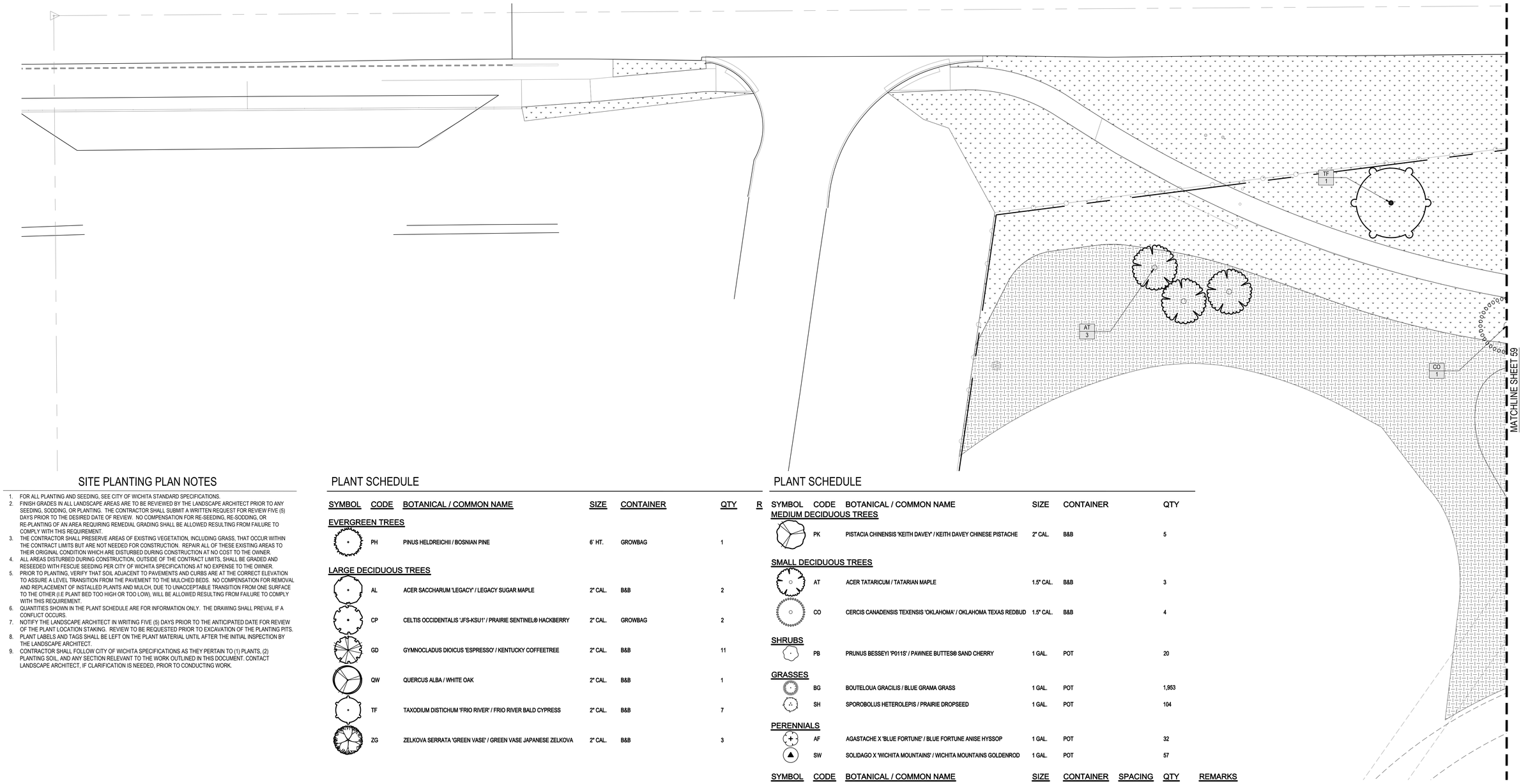
SITE LAYOUT PLAN

DATE: 2026

SHEET: 57 OF 104

PROJ.: 16–1006

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	16-1006	2026	58	104



SITE PLANTING PLAN NOTES

1. FOR ALL PLANTING AND SEEDING, SEE CITY OF WICHITA STANDARD SPECIFICATIONS.
2. FINISH GRADES IN ALL LANDSCAPE AREAS ARE TO BE REVIEWED BY THE LANDSCAPE ARCHITECT PRIOR TO ANY SEEDING, SODDING, OR PLANTING. THE CONTRACTOR SHALL SUBMIT A WRITTEN REQUEST FOR REVIEW FIVE (5) DAYS PRIOR TO THE DESIRED DATE OF REVIEW. NO COMPENSATION FOR RE-SEEDING, RE-SODDING, OR RE-PLANTING OF AN AREA REQUIRING REMEDIAL GRADING SHALL BE ALLOWED RESULTING FROM FAILURE TO COMPLY WITH THIS REQUIREMENT.
3. THE CONTRACTOR SHALL PRESERVE AREAS OF EXISTING VEGETATION, INCLUDING GRASS, THAT OCCUR WITHIN THE CONTRACT LIMITS BUT ARE NOT NEEDED FOR CONSTRUCTION. REPAIR ALL OF THESE EXISTING AREAS TO THEIR ORIGINAL CONDITION WHICH ARE DISTURBED DURING CONSTRUCTION AT NO COST TO THE OWNER.
4. ALL AREAS DISTURBED DURING CONSTRUCTION, OUTSIDE OF THE CONTRACT LIMITS, SHALL BE GRADED AND RESEEDED WITH FESCUE SEEDING PER CITY OF WICHITA SPECIFICATIONS AT NO EXPENSE TO THE OWNER.
5. PRIOR TO PLANTING, VERIFY THAT SOIL ADJACENT TO PAVEMENTS AND CURBS ARE AT THE CORRECT ELEVATION TO ASSURE A LEVEL TRANSITION FROM THE PAVEMENT TO THE MULCHED BEDS. NO COMPENSATION FOR REMOVAL AND REPLACEMENT OF INSTALLED PLANTS AND MULCH, DUE TO UNACCEPTABLE TRANSITION FROM ONE SURFACE TO THE OTHER (I.E PLANT BED TOO HIGH OR TOO LOW), WILL BE ALLOWED RESULTING FROM FAILURE TO COMPLY WITH THIS REQUIREMENT.
6. QUANTITIES SHOWN IN THE PLANT SCHEDULE ARE FOR INFORMATION ONLY. THE DRAWING SHALL PREVAIL IF A CONFLICT OCCURS.
7. NOTIFY THE LANDSCAPE ARCHITECT IN WRITING FIVE (5) DAYS PRIOR TO THE ANTICIPATED DATE FOR REVIEW OF THE PLANT LOCATION STAKING. REVIEW TO BE REQUESTED PRIOR TO EXCAVATION OF THE PLANTING PITS.
8. PLANT LABELS AND TAGS SHALL BE LEFT ON THE PLANT MATERIAL UNTIL AFTER THE INITIAL INSPECTION BY THE LANDSCAPE ARCHITECT.
9. CONTRACTOR SHALL FOLLOW CITY OF WICHITA SPECIFICATIONS AS THEY PERTAIN TO (1) PLANTS, (2) PLANTING SOIL, AND ANY SECTION RELEVANT TO THE WORK OUTLINED IN THIS DOCUMENT. CONTACT LANDSCAPE ARCHITECT, IF CLARIFICATION IS NEEDED, PRIOR TO CONDUCTING WORK.

PLANT SCHEDULE

SYMBOL	CODE	BOTANICAL / COMMON NAME	SIZE	CONTAINER	QTY	R
EVERGREEN TREES						
	PH	PINUS HELDREICHII / BOSNIAN PINE	6' HT.	GROWBAG	1	
LARGE DECIDUOUS TREES						
	AL	ACER SACCHARUM 'LEGACY' / LEGACY SUGAR MAPLE	2" CAL.	B&B	2	
	CP	CELTIS OCCIDENTALIS 'JFS-KSU1' / PRAIRIE SENTINEL® HACKBERRY	2" CAL.	GROWBAG	2	
	GD	GYMNOCLADUS DIOICUS 'ESPRESSO' / KENTUCKY COFFEETREE	2" CAL.	B&B	11	
	QW	QUERCUS ALBA / WHITE OAK	2" CAL.	B&B	1	
	TF	TAXODIUM DISTICHUM 'FRIO RIVER' / FRIO RIVER BALD CYPRESS	2" CAL.	B&B	7	
	ZG	ZELKOVA SERRATA 'GREEN VASE' / GREEN VASE JAPANESE ZELKOVA	2" CAL.	B&B	3	

PLANT SCHEDULE

SYMBOL	CODE	BOTANICAL / COMMON NAME	SIZE	CONTAINER	QTY
MEDIUM DECIDUOUS TREES					
	PK	PISTACIA CHINENSIS 'KEITH DAVEY' / KEITH DAVEY CHINESE PISTACHE	2" CAL.	B&B	5
SMALL DECIDUOUS TREES					
	AT	ACER TATARICUM / TATARIAN MAPLE	1.5" CAL.	B&B	3
	CO	CERCIS CANADENSIS TEXENSIS 'OKLAHOMA' / OKLAHOMA TEXAS REDBUD	1.5" CAL.	B&B	4
SHRUBS					
	PB	PRUNUS BESSEYI 'P011S' / PAWNEE BUTTES® SAND CHERRY	1 GAL.	POT	20
GRASSES					
	BG	BOUTELOUA GRACILIS / BLUE GRAMA GRASS	1 GAL.	POT	1,953
	SH	SPOROBOLUS HETEROLEPIS / PRAIRIE DROPSEED	1 GAL.	POT	104
PERENNIALS					
	AF	AGASTACHE X 'BLUE FORTUNE' / BLUE FORTUNE ANISE HYSSOP	1 GAL.	POT	32
	SW	SOLIDAGO X 'WICHITA MOUNTAINS' / WICHITA MOUNTAINS GOLDENROD	1 GAL.	POT	57

SYMBOL	CODE	BOTANICAL / COMMON NAME	SIZE	CONTAINER	SPACING	QTY	REMARKS
GROUND COVERS							
	FES	K31 FESCUE SEED MIX / K31 FESCUE SEED MIX	SEED			245,933 SF	SEE CITY OF WICHITA STD. SPECS.
	NSG	NATIVE SHORT GRASS SEED MIX / NATIVE SHORT GRASS SEED MIX	SEED			104,446 SF	SEE SHEET 62 FOR SEED MIX SPEC.

NO.	DATE:	REVISION	BY:	APP'D

DRAWN BY: AA

APP'D BY: CT

SCOTT ALEXANDER CRAWFORD LICENSED 03/05/2026 880 KANSAS LANDSCAPE ARCHITECT

RDg PLANNING • DESIGN

CITY OF WICHITA

CRYSTAL PRAIRIE LAKE PARK
MULTI-USE TRAIL
PHASE I
WICHITA, KS

PLANTING PLAN

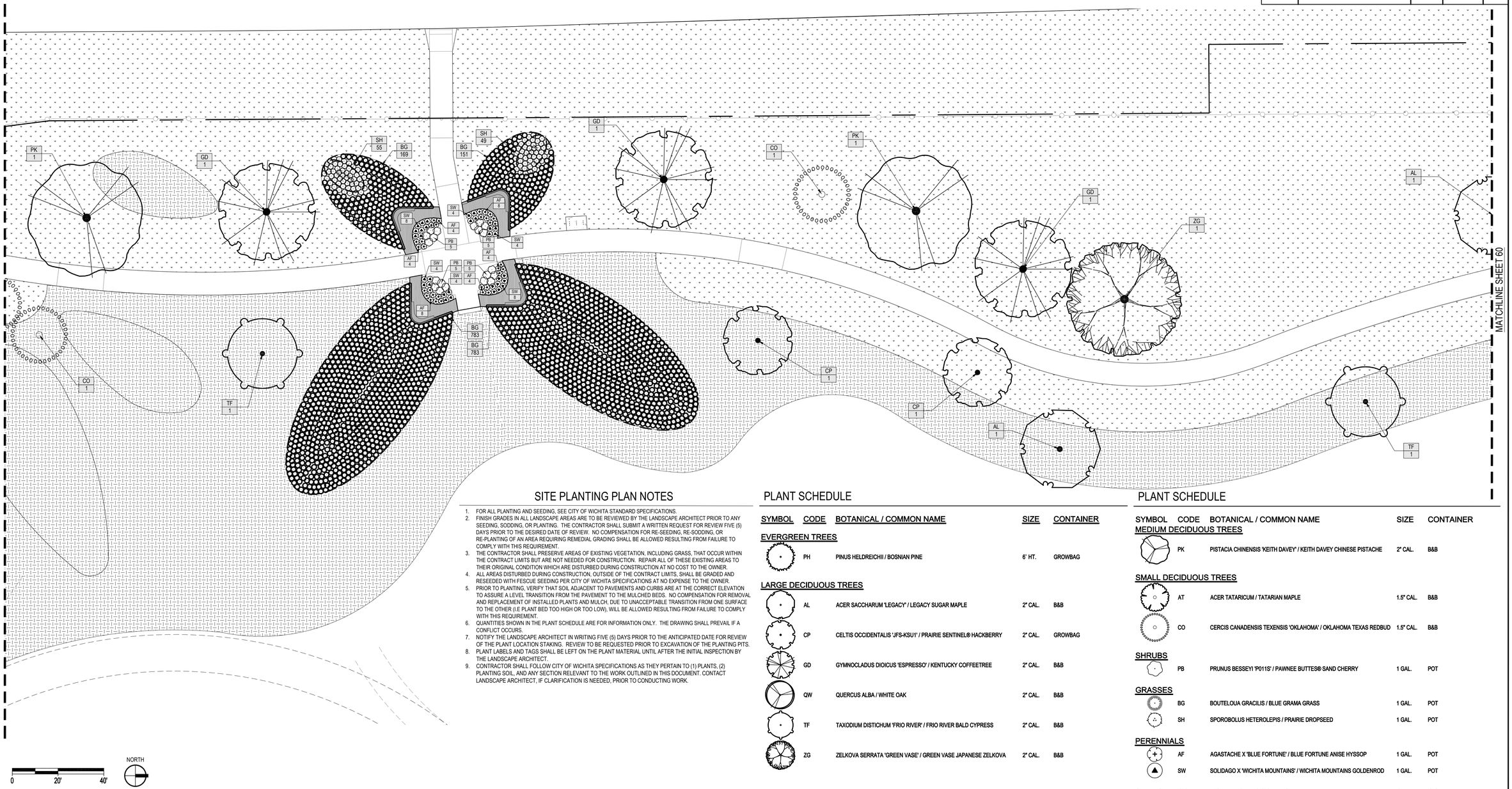
DATE: 2026

SHEET: 58 OF 104

PROJ.: 16-1006

R:\Projects\3006\3006.905.00 Wichita, KS - Crystal Prairie Ph 1\3.0 BIM\R3006.905.00 - CADD\3006.905.00 L4 Planting.dwg 3/04/2026 - 8:32am

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	16-1006	2026	59	104



SITE PLANTING PLAN NOTES

1. FOR ALL PLANTING AND SEEDING, SEE CITY OF WICHITA STANDARD SPECIFICATIONS.
2. FINISH GRADES IN ALL LANDSCAPE AREAS ARE TO BE REVIEWED BY THE LANDSCAPE ARCHITECT PRIOR TO ANY SEEDING, SODDING, OR PLANTING. THE CONTRACTOR SHALL SUBMIT A WRITTEN REQUEST FOR REVIEW FIVE (5) DAYS PRIOR TO THE DESIRED DATE OF REVIEW. NO COMPENSATION FOR RE-SEEDING, RE-SODDING, OR RE-PLANTING OF AN AREA REQUIRING REMEDIAL GRADING SHALL BE ALLOWED RESULTING FROM FAILURE TO COMPLY WITH THIS REQUIREMENT.
3. THE CONTRACTOR SHALL PRESERVE AREAS OF EXISTING VEGETATION, INCLUDING GRASS, THAT OCCUR WITHIN THE CONTRACT LIMITS BUT ARE NOT NEEDED FOR CONSTRUCTION. REPAIR ALL OF THESE EXISTING AREAS TO THEIR ORIGINAL CONDITION WHICH ARE DISTURBED DURING CONSTRUCTION AT NO COST TO THE OWNER.
4. ALL AREAS DISTURBED DURING CONSTRUCTION, OUTSIDE OF THE CONTRACT LIMITS, SHALL BE GRADED AND RESEEDED WITH FESCUE SEEDING PER CITY OF WICHITA SPECIFICATIONS AT NO EXPENSE TO THE OWNER.
5. PRIOR TO PLANTING, VERIFY THAT SOIL ADJACENT TO PAVEMENTS AND CURBS ARE AT THE CORRECT ELEVATION TO ASSURE A LEVEL TRANSITION FROM THE PAVEMENT TO THE MULCHED BEDS. NO COMPENSATION FOR REMOVAL AND REPLACEMENT OF INSTALLED PLANTS AND MULCH, DUE TO UNACCEPTABLE TRANSITION FROM ONE SURFACE TO THE OTHER (I.E PLANT BED TOO HIGH OR TOO LOW), WILL BE ALLOWED RESULTING FROM FAILURE TO COMPLY WITH THIS REQUIREMENT.
6. QUANTITIES SHOWN IN THE PLANT SCHEDULE ARE FOR INFORMATION ONLY. THE DRAWING SHALL PREVAIL IF A CONFLICT OCCURS.
7. NOTIFY THE LANDSCAPE ARCHITECT IN WRITING FIVE (5) DAYS PRIOR TO THE ANTICIPATED DATE FOR REVIEW OF THE PLANT LOCATION STAKING. REVIEW TO BE REQUESTED PRIOR TO EXCAVATION OF THE PLANTING PITS.
8. PLANT LABELS AND TAGS SHALL BE LEFT ON THE PLANT MATERIAL UNTIL AFTER THE INITIAL INSPECTION BY THE LANDSCAPE ARCHITECT.
9. CONTRACTOR SHALL FOLLOW CITY OF WICHITA SPECIFICATIONS AS THEY PERTAIN TO (1) PLANTS, (2) PLANTING SOIL, AND ANY SECTION RELEVANT TO THE WORK OUTLINED IN THIS DOCUMENT. CONTACT LANDSCAPE ARCHITECT, IF CLARIFICATION IS NEEDED, PRIOR TO CONDUCTING WORK.

PLANT SCHEDULE

SYMBOL	CODE	BOTANICAL / COMMON NAME	SIZE	CONTAINER
EVERGREEN TREES				
	PH	PINUS HELDREICHII / BOSNIAN PINE	6' HT.	GROWBAG
LARGE DECIDUOUS TREES				
	AL	ACER SACCHARUM 'LEGACY' / LEGACY SUGAR MAPLE	2" CAL.	B&B
	CP	CELTIS OCCIDENTALIS 'JFS-KSU1' / PRAIRIE SENTINEL® HACKBERRY	2" CAL.	GROWBAG
	GD	GYMNOCLADUS DIOICUS 'ESPRESSO' / KENTUCKY COFFEETREE	2" CAL.	B&B
	QW	QUERCUS ALBA / WHITE OAK	2" CAL.	B&B
	TF	TAXODIUM DISTICHUM 'FRIO RIVER' / FRIO RIVER BALD CYPRESS	2" CAL.	B&B
	ZG	ZELKOVA SERRATA 'GREEN VASE' / GREEN VASE JAPANESE ZELKOVA	2" CAL.	B&B

PLANT SCHEDULE

SYMBOL	CODE	BOTANICAL / COMMON NAME	SIZE	CONTAINER
MEDIUM DECIDUOUS TREES				
	PK	PISTACIA CHINENSIS 'KEITH DAVEY' / KEITH DAVEY CHINESE PISTACHE	2" CAL.	B&B
SMALL DECIDUOUS TREES				
	AT	ACER TATARICUM / TATARIAN MAPLE	1.5" CAL.	B&B
	CO	CERCIS CANADENSIS TEXENSIS 'OKLAHOMA' / OKLAHOMA TEXAS REDBUD	1.5" CAL.	B&B
SHRUBS				
	PB	PRUNUS BESSEYI 'P011S' / PAWNEE BUTTES® SAND CHERRY	1 GAL.	POT
GRASSES				
	BG	BOUTELOUA GRACILIS / BLUE GRAMA GRASS	1 GAL.	POT
	SH	SPOROBOLUS HETEROLEPIS / PRAIRIE DROPSEED	1 GAL.	POT
PERENNIALS				
	AF	AGASTACHE X 'BLUE FORTUNE' / BLUE FORTUNE ANISE HYSSOP	1 GAL.	POT
	SW	SOLIDAGO X 'WICHITA MOUNTAINS' / WICHITA MOUNTAINS GOLDENROD	1 GAL.	POT

SYMBOL	CODE	BOTANICAL / COMMON NAME	SIZE	CONTAINER
GROUND COVERS				
	FES	K31 FESCUE SEED MIX / K31 FESCUE SEED MIX	SEED	
	NSG	NATIVE SHORT GRASS SEED MIX / NATIVE SHORT GRASS SEED MIX	SEED	

NO.	DATE:	REVISION	BY:	APP'D

DRAWN BY: AA

APP'D BY: CT

SCOTT ALEXANDER CRAWFORD LICENSED 03/05/2026 LANDSCAPE ARCHITECT KANSAS

RDg PLANNING • DESIGN

CITY OF WICHITA

CRYSTAL PRAIRIE LAKE PARK
MULTI-USE TRAIL
PHASE I
WICHITA, KS

PLANTING PLAN

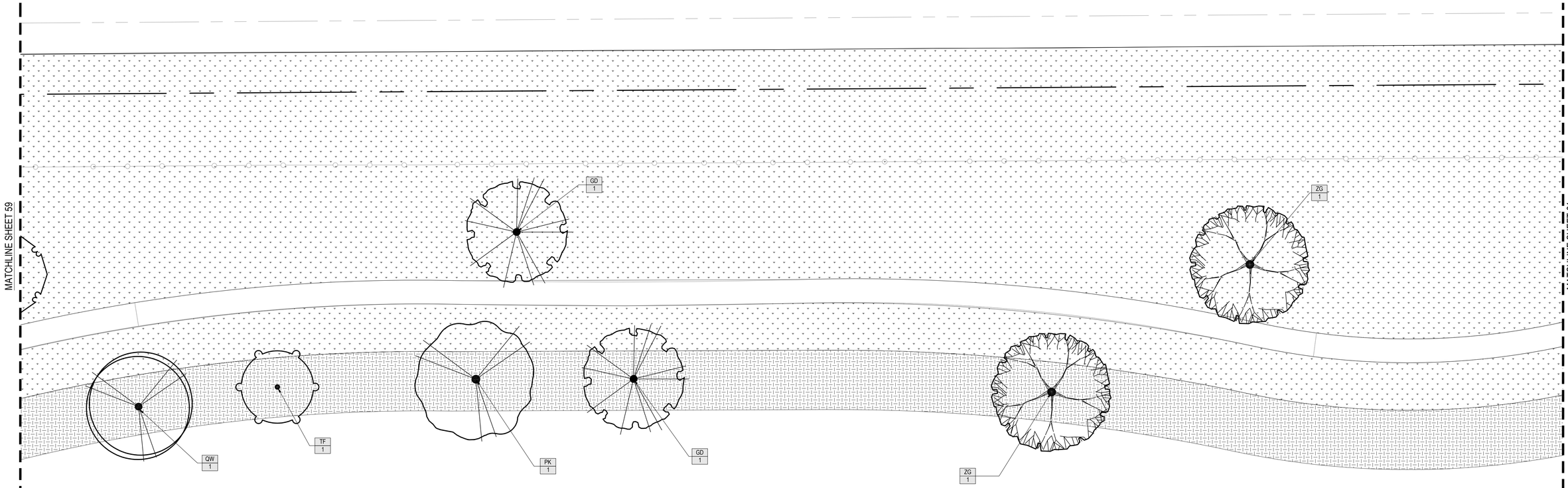
DATE: 2026

SHEET: 59 OF 104

PROJ.: 16-1006

R: \Projects \3006 \3006.905.00 Wichita, KS - Crystal Prairie Ph 1\8.0 BIM\3006.905.00 - CADD\3006.905.00 L4 Planting.dwg 3/04/2026 - 8:33am

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	16-1006	2026	60	104



SITE PLANTING PLAN NOTES

1. FOR ALL PLANTING AND SEEDING, SEE CITY OF WICHITA STANDARD SPECIFICATIONS.
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PLANT SCHEDULE

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LARGE DECIDUOUS TREES				
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	GD	GYMNOCLADUS DIOICUS 'ESPRESSO' / KENTUCKY COFFEETREE	2" CAL.	B&B
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	AT	ACER TATARICUM / TATARIAN MAPLE	1.5" CAL.	B&B
	CO	CERCIS CANADENSIS TEXENSIS 'OKLAHOMA' / OKLAHOMA TEXAS REDBUD	1.5" CAL.	B&B
SHRUBS				
	PB	PRUNUS BESSEYI 'P011S' / PAWNEE BUTTES® SAND CHERRY	1 GAL.	POT
GRASSES				
	BG	BOUTELOUA GRACILIS / BLUE GRAMA GRASS	1 GAL.	POT
	SH	SPOROBOLUS HETEROLEPIS / PRAIRIE DROPSEED	1 GAL.	POT
PERENNIALS				
	AF	AGASTACHE X 'BLUE FORTUNE' / BLUE FORTUNE ANISE HYSSOP	1 GAL.	POT
	SW	SOLIDAGO X 'WICHITA MOUNTAINS' / WICHITA MOUNTAINS GOLDENROD	1 GAL.	POT

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	FES	K31 FESCUE SEED MIX / K31 FESCUE SEED MIX	SEED	
	NSG	NATIVE SHORT GRASS SEED MIX / NATIVE SHORT GRASS SEED MIX	SEED	

0 20' 40'

NORTH

NO.	DATE:	REVISION	BY:	APP'D

DRAWN BY: AA

APP'D BY: CT

SCOTT ALEXANDER CRAWFORD LICENSED 03/05/2026 889 KANSAS LANDSCAPE ARCHITECT

RDG PLANNING • DESIGN

CITY OF WICHITA

CRYSTAL PRAIRIE LAKE PARK
MULTI-USE TRAIL
PHASE I
WICHITA, KS

PLANTING PLAN

DATE: 2026

SHEET: 60 OF 104

PROJ.: 16-1006

R:\Projects\3006\3006.905.00 Wichita, KS - Crystal Prairie Ph 1\8.0 BIM\R3006.905.00 - CAD\3006.905.00 L4 Planting.dwg 3/04/2026 - 8:34am

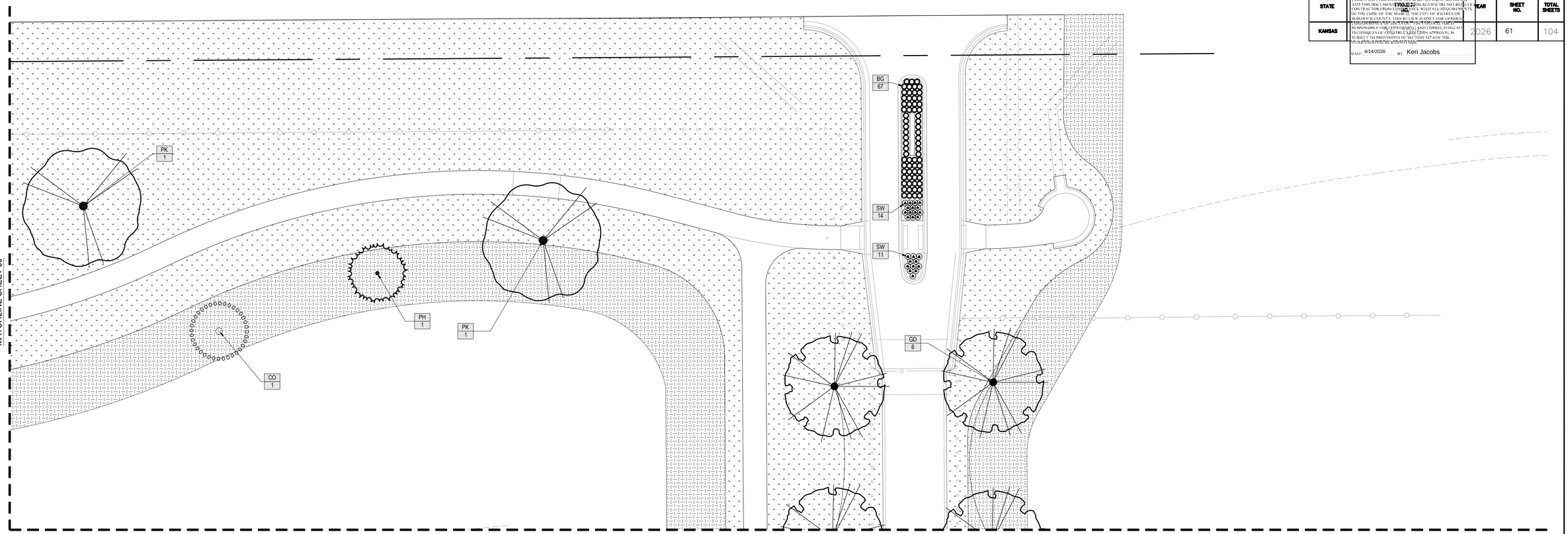
Wichita-Sedgwick County
Metropolitan Area Building
and Construction Department

REVIEWED FOR CODE COMPLIANCE

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DATE: 4/14/2026 BY: Keri Jacobs

STATE	COUNTY	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	SEDGWICK	2026	61	104



MATCHLINE SHEET 62

SITE PLANTING PLAN NOTES

1. FOR ALL PLANTING AND SEEDING, SEE CITY OF WICHITA STANDARD SPECIFICATIONS.
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SHRUBS				
	PB	PRUNUS BESSEYI 'P011S' / PAWNEE BUTTES® SAND CHERRY	1 GAL.	POT
GRASSES				
	BG	BOUTELOUA GRACILIS / BLUE GRAMA GRASS	1 GAL.	POT
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	FES	K31 FESCUE SEED MIX / K31 FESCUE SEED MIX	SEED	
	NSG	NATIVE SHORT GRASS SEED MIX / NATIVE SHORT GRASS SEED MIX	SEED	

0 20' 40'

NORTH

NO.	DATE:	REVISION	BY:	APP'D

DRAWN BY: AA

APP'D BY: CT

SCOTT ALEXANDER CRAWFORD LICENSED 03/05/2026 2020 LANDSCAPE ARCHITECT

RDg... PLANNING • DESIGN

CITY OF WICHITA

CRYSTAL PRAIRIE LAKE PARK
MULTI-USE TRAIL
PHASE I
WICHITA, KS

PLANTING PLAN

DATE: 2026

SHEET: 61 OF 104

PROJ.: 18-1006

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Wichita-Sedgwick County
Metropolitan Area Building
and Construction Department

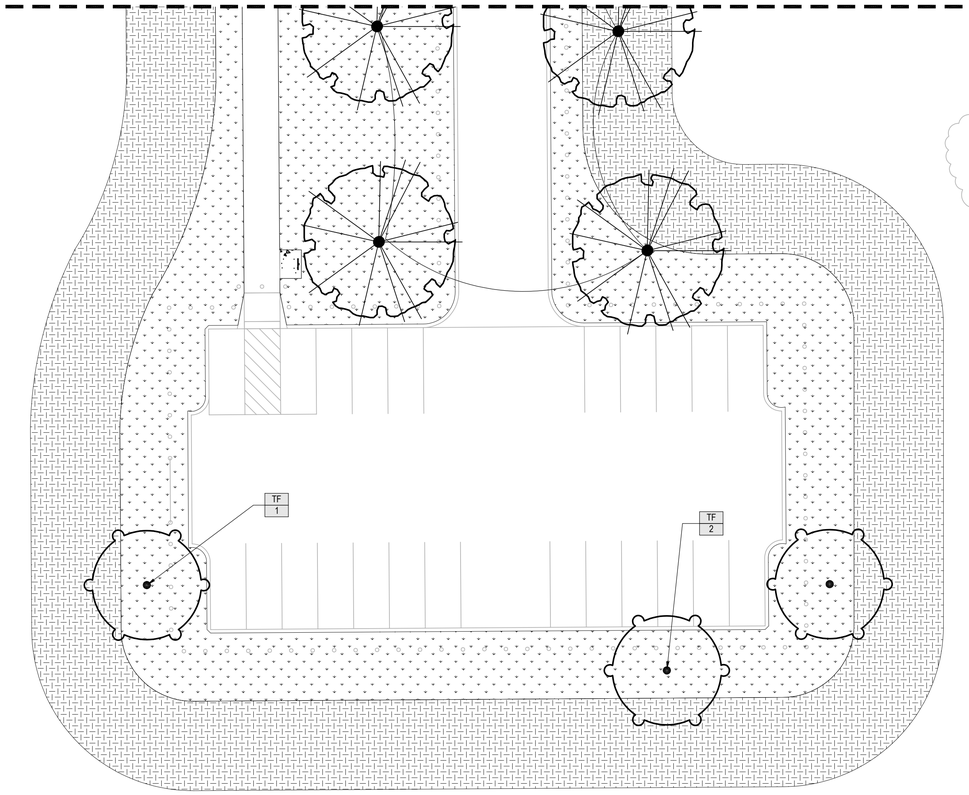
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DATE: 4/14/2026 BY: Keri Jacobs

STATE		YEAR	SHEET NO.	TOTAL SHEETS
KANSAS		2026	62	104

MATCHLINE SHEET 61



EXISTING TREES / VEGETATION TO REMAIN

NORTH

0 20' 40'

CITY OF WICHITA PARKING LOT LANDSCAPING REQUIREMENTS	
REQUIRED: 1 SHADE TREE OR 2 ORNAMENTAL TREES / 20 STALLS	PROVIDED: 25 PARKING STALLS = 2 SHADE TREES OR 6 ORNAMENTAL TREES 5 SHADE TREES PROVIDED

SITE PLANTING PLAN NOTES

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GRASSES				
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NO.	DATE:	REVISION	BY:	APP'D

DRAWN BY: AA

APP'D BY: CT

SCOTT ALEXANDER CRAWFORD LICENSED 03/05/2026 559 KANSAS LANDSCAPE ARCHITECT

RDG PLANNING • DESIGN

CITY OF WICHITA

CRYSTAL PRAIRIE LAKE PARK
MULTI-USE TRAIL
PHASE I
WICHITA, KS

PLANTING PLAN

DATE: 2026

SHEET: 62 OF 104

PROJ.: 16-1006

R: \Projects\3006\3006.905.00 Wichita, KS – Crystal Prairie Ph 1\8.0 BIM\R3006.905.00 – CADD\3006.905.00 L4 Planting.dwg 3/04/2026 – 8:40am

Wichita-Sedgwick County
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DATE: 4/14/2026 BY: Keri Jacobs

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	3006.905.00	2026	63	104

NATIVE GRASS AND WILDFLOWER SEEDING SPECIFICATION

PART 1 GENERAL

1.1 SECTION INCLUDES

A. This part of the Specification includes all labor, materials, equipment and supervision required to install the work.

B. Work includes:
1. Seedbed preparation
2. Fertilization
3. Seeding
4. Mulching
5. Warrranty.

1.2 SUBMITTALS

A. Manufacturer's or vendor's certified analysis of fertilizer.

B. Seed vendor's certified statement for each grass seed mixture required, stating botanical and common name, percentages by weight, and percentages of purity, germination, and weed seed for each grass seed species.

C. Planting Schedule: Proposed seeding schedule, indicating dates for seeding work during normal seasons. Once accepted, revise dates only as approved in writing, after documentation of reasons for delays.

D. Normal seasons for this work are as follows:

Cool Season Grasses: February 15 - April 20 / August 15 - September 30
Warm Season Grasses: November 15 - June 1

E. Furnish detailed written recommended maintenance program to the Owner with a copy to the Owner's Representative, prior to final inspection of the seeding.

1.3 QUALITY ASSURANCE

A. Subcontract seeding to a single firm specializing in seeding as specified.

B. Source Quality Control: Ship seeding materials with certificates of inspection required by governing authorities. Comply with regulations applicable to seeding materials.

1. Do not make substitutions. If specified material is not obtainable, submit proof of non-availability to Owner's Representative, together with proposal for use of equivalent material.
2. Analysis and Standards: Package standard products with manufacturer's certified analysis. For other materials, provide analysis by recognized laboratory made in accordance with methods established by the Association of Official Agriculture Chemists, wherever applicable.

1.4 DELIVERY, STORAGE, AND HANDLING:

A. If seed is mixed prior to delivery on the site, it shall be tagged showing a guaranteed statement of composition of mixture and percentage of purity and germination of each variety.

B. If seed is to be mixed at the site, it shall be delivered in original containers bearing producers certification of germination and purity.

C. Tags shall show producers or dealers Kansas Permit Number and date of testing; test date shall be no more than 90 days previous to time of use.

D. Fertilizers shall conform to State of Kansas laws and regulations. If delivered in bulk, bills of lading or other labels shall be furnished to the Landscape Architect or labels indicating analysis and weight information from each container shall be preserved and furnished to the Owner's Representative within twenty-four (24) hours of application.

E. Handling of materials as recommended by manufacturer.

F. Store all packaged materials off ground and protect from moisture and rodents.

G. Storage of all materials in locations designated and approved by Owner's Representative.

1.5 JOB CONDITIONS

A. Utilities: Determine location of underground utilities and perform work in a manner which will avoid possible damage. Hand excavate, as required.

B. Grade Stakes: Maintain grade stakes set by others until removal is mutually agreed upon by parties concerned.

C. Protection: Protect existing irrigation system, structures, utilities, sidewalks, pavements, and other facilities during seeding operations. Repair any damage at no cost to the Owner.

1.6 SEQUENCING & SCHEDULING

A. Planting Time: Proceed with, and complete seeding as rapidly as portions of site become available, working within seasonal limitations for each kind of seed required.

B. Chronological procedure for seeding is to remove any existing vegetation, disc, fertilize, prepare the seed bed, seed, and then mulch.

1.7 PROJECT WARRANTY

A. Germination of seed and establishment of installation.

PART 2 PRODUCTS

2.1 FERTILIZER:

A. Grade: Commercial grade conforming to current requirements of the Kansas Department of Agriculture, uniform in composition, liquid or dry and free flowing.

B. Formulation: 0:10:10, or plant food ratio of 0:1:1.

2.2 SEEDING MATERIALS

A. Seed Mix:

1. "Short Grass Mix - Sandy or Hardland Soils - Buffalo Brand" as supplied by Sharp Bros. Seed Co., 1005 S Sycamore, Healy, KS 67850 (620) 398-2231 or approved equivalent.

B. Nurse Crop: Annual Ryegrass.

C. Each seed mix bag shall bear seed supplier's "blue tag" certification.

D. Seed Preparation: City of Wichita Standard Specification 902.5 SEEDING

2.3 STRAW MULCH

A. Provide clean, weed free threshed straw of wheat, rye, or oats. Straw harvested after killing frost or during dormant periods as well as discolored, weathered, rotted, brittle, moldy, or caked materials is unacceptable.

B. Fifty percent (50%) of fiber of each straw bale shall be ten inches (10") or longer.

PART 3 EXECUTION

3.1 PREPARATION FOR PLANTING NATIVE GRASS AND WILDFLOWERS

A. See City of Wichita Standard Specification Section 902.3 Soil Preparation for subgrade preparation and topsoil placement.

B. In newly graded and topsoiled areas, strip the surface vegetation by scarification. Remove and dispose of scarified vegetation.

C. After stripping, till the area to be seeded to a depth of four inches (4"). Take precautions to avoid mixing subsoil with topsoil.

D. After the first rain, till the seedbed again to a one inch (1") depth.

E. Proceed immediately following tilling with seedbed preparation, fertilization, and seeding.

3.2 SEEDBED PREPARATION

A. Prepare the seedbed by scarifying the upper two (2) inches of soil in a manner acceptable to the Engineer a maximum of five (5) days before the sowing of seed. Perform disking, harrowing, and raking in the longitudinal direction on all slopes.

B. Repair erosion or other damage which occurs during seedbed preparation.

3.3 FERTILIZATION

A. Apply commercial fertilizer at the rate of one (1) pound actual phosphorous (P205) per one thousand (1000) square feet.

B. Application procedures: IDOT Article 2601.04, paragraph B (IDOT Series 1997 English Standard Specifications for Highway and Bridge Construction).

3.4 SEEDING

A. Do not use wet seed or seed that is moldy or otherwise damaged in transit or storage.

B. Sow native grass and wildflower seed mix uniformly, using a native grass drill which is equipped with an agitator in the seed hopper.

C. Native Grass and Wildflower Seeding Rate: 1 lb. per 1000 SF (43.5 lbs per acre).

D. Nurse Crop Seeding Rate: 0.5 lbs. per acre.

E. Sow seed to a depth of approximately ½ inch. After seeding, use a cultipacker or roller to firm the seedbed.

3.5 MULCHING

A. Protect seeded areas against erosion by spreading specified mulch after completion of seeding operations.

B. Spread uniformly to form a continuous blanket and apply at a rate of one (1) ton per acre.

C. Anchor mulch by crimping into the soil a minimum depth of two inches (2").

3.6 CLEANUP AND PROTECTION

A. Restore to proposed grade, reseed, and remulch all eroded and/or washed out areas which develop prior to acceptance of seed.

B. During landscape work, keep pavements clean and work area in an orderly condition.

C. Upon completion of job, clean-up all debris, caused by work, and excess material and leave area within contract limits in a neat and clean condition.

3.7 INSPECTION AND ACCEPTANCE

A. Upon completion of the work and fulfillment of the requirements of this Section, notify the Owner's Representative in writing that the work is ready for final inspection.

B. Request a definite date for final inspection.

C. Conditions for seeding acceptance:

1. Guaranteed germination is achieved..
2. Plants have emerged and maturing to a self-sustaining level.

D. Reseed and maintain all seeded lawn areas which do not meet the requirements of this Section at the time of final inspection.

E. Replacement work shall be as specified for original seeding.

F. Replacement work shall be reinspected before acceptance.

END OF SECTION

CONTACT FOR PERENNIAL AND ORNAMENTAL GRASS SOURCING
1. Prairie Pride Native Plants
Nathaniel Barton
T#: 316-258-8237
2. Or approved equal

R: \Projects\3006\3006.905.00 Wichita, KS - Crystal Prairie Ph 1\8.0 BIM\R3006.905.00 - CADD\3006.905.00 L4 Planting.dwg 3/04/2026 - 8:41am

NO.	DATE:	REVISION	BY:	APP'D

DRAWN BY: AA
APP'D BY: CT

SCOTT ALEXANDER CRAWFORD LICENSED 03/05/2026 2020 LANDSCAPE ARCHITECT

RDG PLANNING DESIGN

CITY OF WICHITA

CRYSTAL PRAIRIE LAKE PARK
MULTI-USE TRAIL
PHASE I
WICHITA, KS

NATIVE SEEDING SPECIFICATIONS

DATE: 2026
SHEET: 63 OF 104
PROJ.: 16-1006

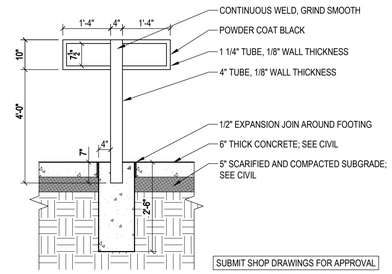
Wichita-Sedgwick County
Metropolitan Area Building
and Construction Department

REVIEWED FOR CODE COMPLIANCE

CORRECTIONS OR COMMENTS MADE ON THESE DRAWINGS AND THIS DOCUMENT DURING THIS REVIEW DO NOT RELIEVE CONTRACTOR FROM COMPLIANCE WITH ALL REQUIREMENTS OF THE CODE OF THE MARKET THE CITY OF WICHITA OR SEDGWICK COUNTY. THIS REVIEW IS ONLY FOR GENERAL CONFORMANCE WITH THE DESIGN CONCEPT OF THE PROJECT. THE APPLICANT IS RESPONSIBLE FOR CONFORMING AND CORRELATING ALL DIMENSIONS OF UNDOCUMENTED CONDITIONS. APPROVAL IS SUBJECT TO PROVISIONS OF SECTION 107.4 OF THE WICHITA ADMINISTRATIVE CODE.

DATE: 4/14/2026 BY: Keri Jacobs

STATE	COUNTY	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	SEDGWICK	2026	64	104

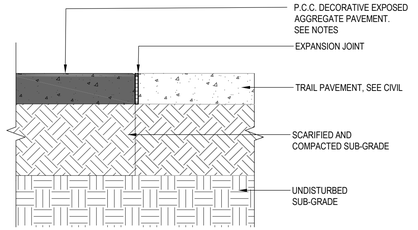


C4 TRASH RECEPTACLE STAND

NOT TO SCALE
-NTS

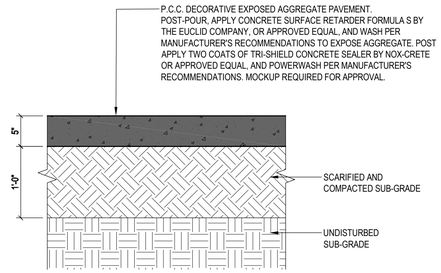
B4 TYP. SECTION: PERENNIAL PLANTING

1/2" = 1'-0"
-0417



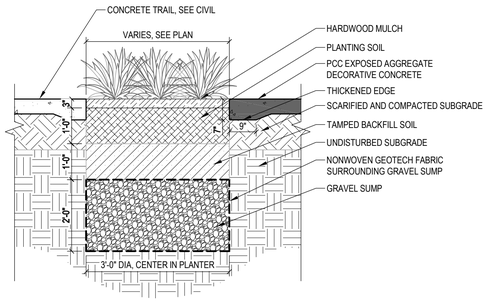
C5 TYP. SECT. - PCC PAVING W/ EXPOSED AGGREGATE @ TRAIL PAVING

1" = 1'-0"
-0833



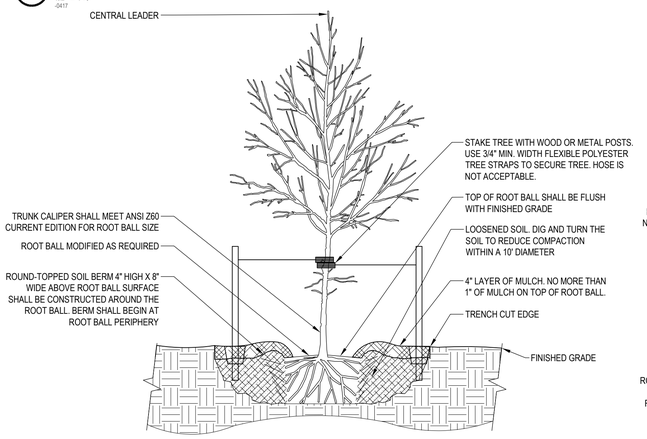
B5 TYP. SECT. - PCC PAVING W/ EXPOSED AGGREGATE

1" = 1'-0"
-0833



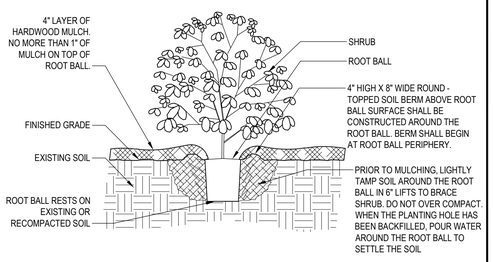
A3 TYP. SECT: PLANTER BED W/ GRAVEL SUMP

1/2" = 1'-0"
-0417



A4 TYP. SECTION - TREE PLANTING

1/2" = 1'-0"
-0417



A5 TYP. SECTION - SHRUB PLANTING

1" = 1'-0"
-0833

NO.	DATE:	REVISION	BY:	APP'D

DRAWN BY: AA
APP'D BY: CT

SCOTT ALEXANDER CRAWFORD LICENSED 03/05/2026 889 KANSAS LANDSCAPE ARCHITECT

RDG... PLANNING ● DESIGN

CITY OF WICHITA

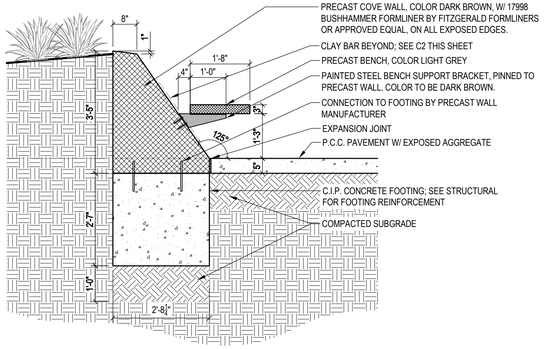
CRYSTAL PRAIRIE LAKE PARK
MULTI-USE TRAIL
PHASE I
WICHITA, KS

LANDSCAPE DETAILS

DATE: 2026
SHEET: 64 OF 104
PROJ.: 16-1006

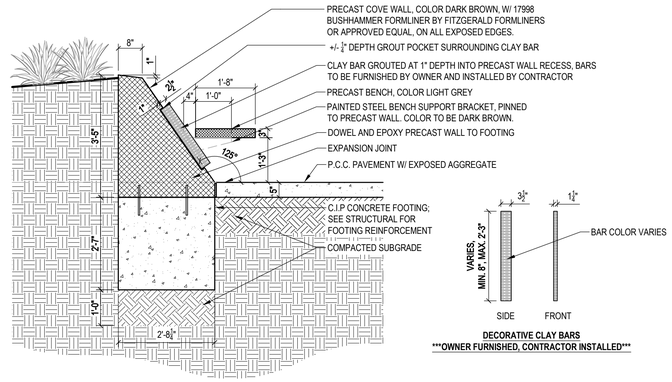
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STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	16–1006	2026	65	104



C1 SECTION: PRECAST WALL AT BENCH SUPPORT CONNECTION

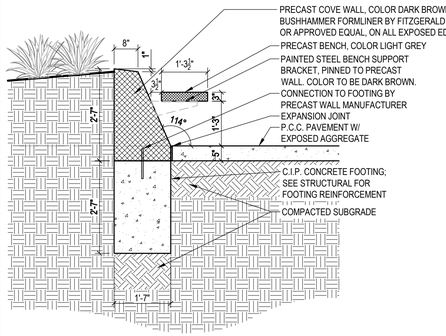
1/2" = 1'-0"



DECORATIVE CLAY BARS
*****OWNER FURNISHED, CONTRACTOR INSTALLED*****

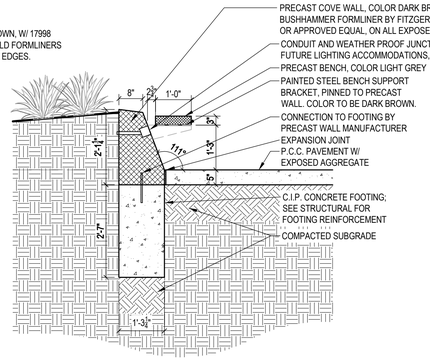
C2 SECTION: PRECAST WALL AT CLAY BAR

1/2" = 1'-0"



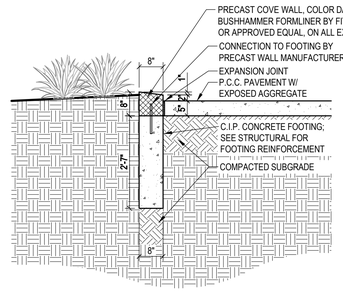
B1 SECTION: PRECAST WALL AT BENCH TRANSITION

1/2" = 1'-0"



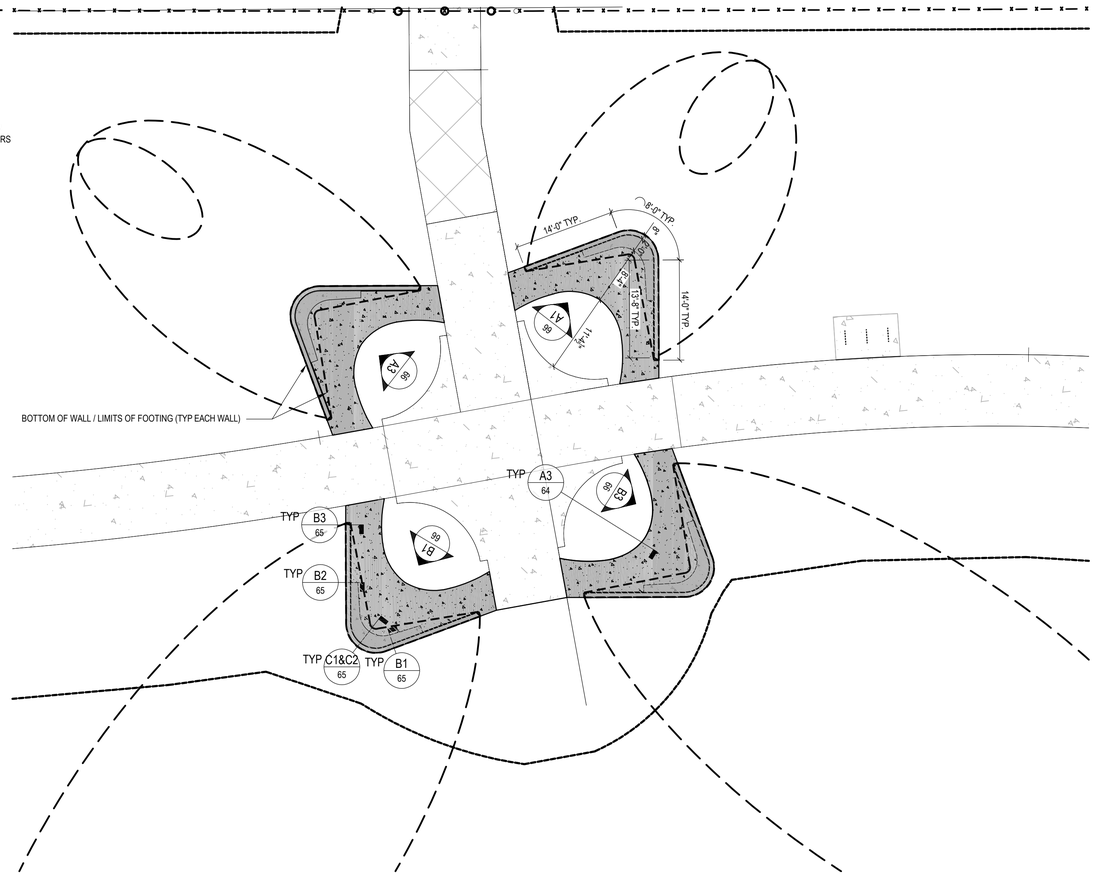
B2 SECTION: PRECAST WALL AT END OF BENCH

1/2" = 1'-0"



B3 SECTION: PRECAST WALL END

1/2" = 1'-0"



A4 COVE WALL AREA PLAN ENLARGEMENT

1" = 10'





A1 PERSPECTIVES: COVE WALL DESIGN INTENT

NOT TO SCALE

NO.	DATE:	REVISION	BY:	APP'D

DRAWN BY: AA
APP'D BY: CT

SCOTT ALEXANDER CRAWFORD LICENSED 03/05/2026 889 KANSAS LANDSCAPE ARCHITECT

RDG PLANNING • DESIGN

CITY OF WICHITA

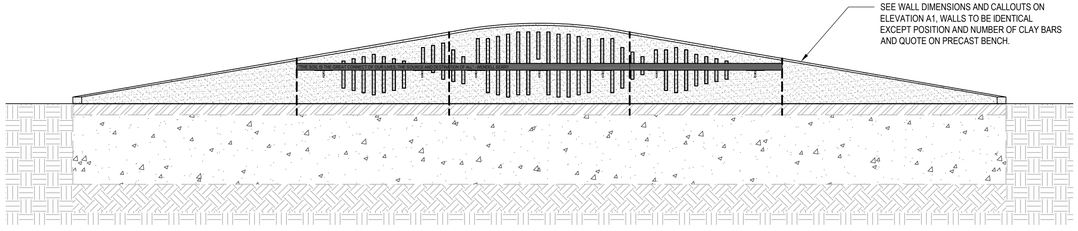
CRYSTAL PRAIRIE LAKE PARK
MULTI-USE TRAIL
PHASE I
WICHITA, KS

COVE WALL DETAILS

DATE: 2026
SHEET: 65 OF 104
PROJ.: 16–1006

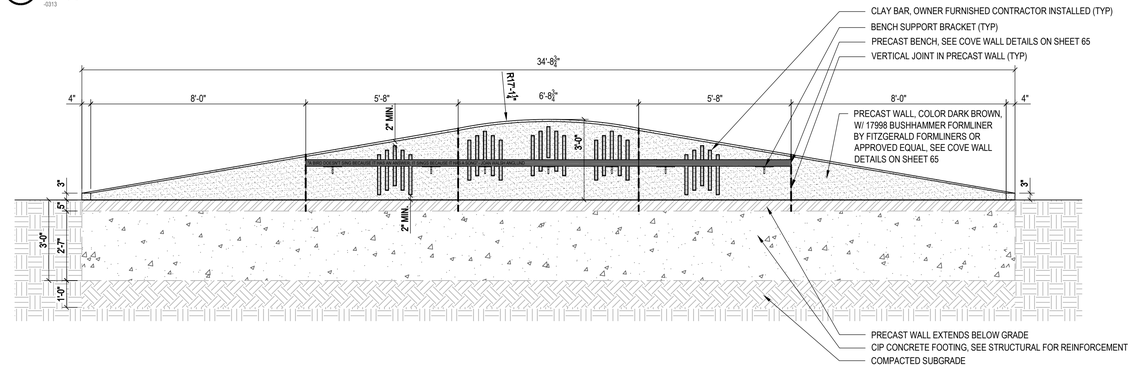
R: \Projects \3006 \3006.905.00 Wichita, KS – Crystal Prairie Ph 1 \B.O BIM \P3006.905.00 – CADD \3006.905.00 L5 Details.dwg 3/04/2026 – 8:44am

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	16–1006	2026	66	104



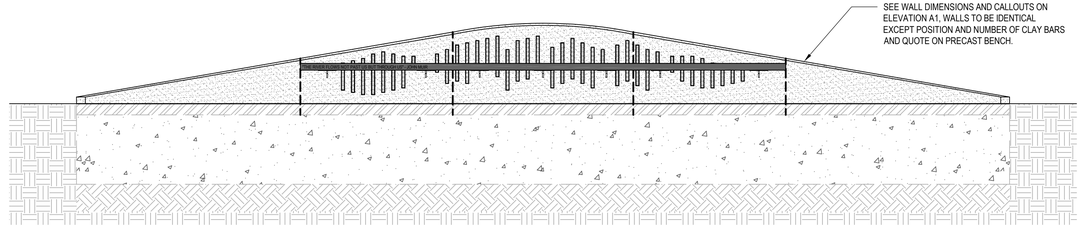
B1 FLATTENED WALL ELEVATION: COVE WALL "TOUCH"

3/8" = 1'-0"



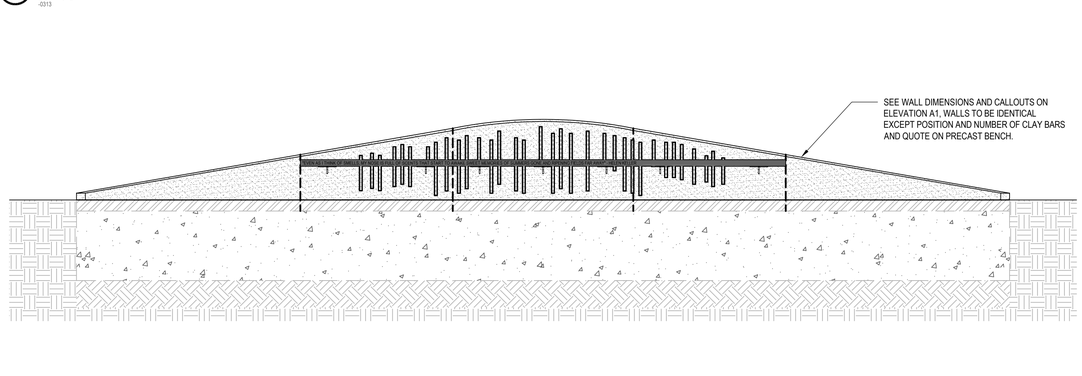
A1 FLATTENED WALL ELEVATION: COVE WALL "SOUND"

3/8" = 1'-0"



B3 FLATTENED WALL ELEVATION: COVE WALL "SIGHT"

3/8" = 1'-0"



A3 FLATTENED WALL ELEVATION: COVE WALL "SMELL"

3/8" = 1'-0"

NO.	DATE:	REVISION	BY:	APP'D

DRAWN BY: AA

APP'D BY: CT

SCOTT ALEXANDER CRAWFORD LICENSED 03/05/2026 2020 KANSAS LANDSCAPE ARCHITECT

RDG PLANNING DESIGN

CITY OF WICHITA

CRYSTAL PRAIRIE LAKE PARK
MULTI-USE TRAIL
PHASE I
WICHITA, KS

COVE WALL ELEVATIONS

DATE: 2026

SHEET: 66 OF 104

PROJ.: 16–1006

R: \Projects\3006\3006.905.00 Wichita, KS – Crystal Prairie Ph 1\8.0 BIM\R3006.905.00 – CADD\3006.905.00 L5 Details.dwg 3/30/2026 – 8:27am

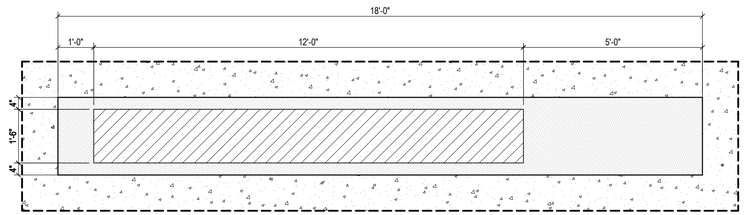
Wichita-Sedgwick County
Metropolitan Area Building
and Construction Department

REVIEWED FOR CODE COMPLIANCE

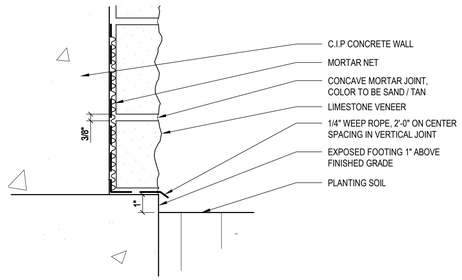
CORRECTIONS OR COMMENTS MADE ON THESE DRAWINGS AND THIS DOCUMENT DURING THIS REVIEW DO NOT RELIEVE CONTRACTOR FROM COMPLIANCE WITH ALL REQUIREMENTS OF THE CODE OF THE MARCH THE CITY OF WICHITA OR SEDGWICK COUNTY. THIS REVIEW IS ONLY FOR GENERAL CONFORMANCE WITH THE CODE. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING AND CORRELATING ALL DIMENSIONS AND CONDITIONS. APPROVAL IS SUBJECT TO PROVISIONS OF SECTION 107.4 OF THE WICHITA ADMINISTRATIVE REGULATIONS.

DATE: 4/14/2026 BY: Keri Jacobs

STATE	COUNTY	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	SEDGWICK	2026	67	104

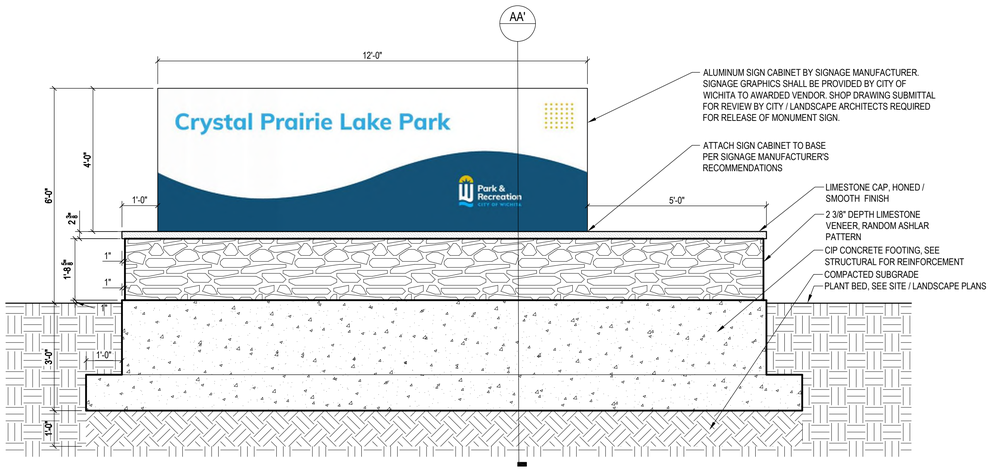


PLAN VIEW

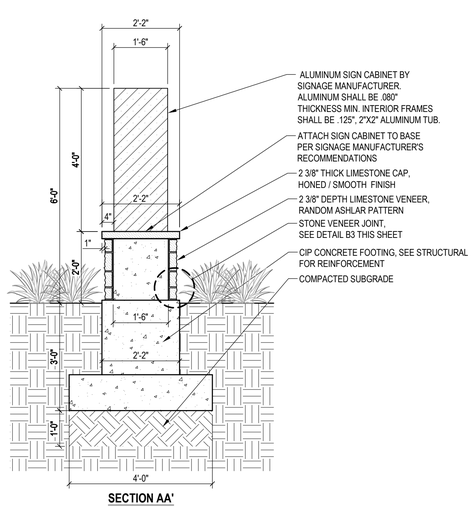


B3 STONE VENEER JOINT

3" = 1'-0"



SIDE A & B SECTION / ELEVATION



SECTION AA'

A1 PARK MONUMENT SIGN

NOT TO SCALE

NO.	DATE:	REVISION	BY:	APP'D

DRAWN BY: AA

APP'D BY: CT

SCOTT ALEXANDER CRAWFORD LICENSED 03/05/2026 8539 LANDSCAPE ARCHITECT

RDG PLANNING • DESIGN

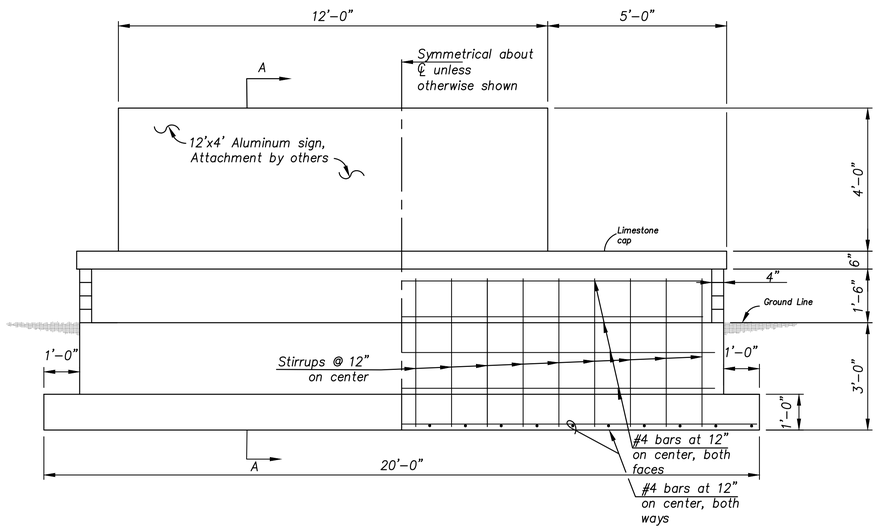
CITY OF WICHITA

CRYSTAL PRAIRIE LAKE PARK
MULTI-USE TRAIL
PHASE I
WICHITA, KS

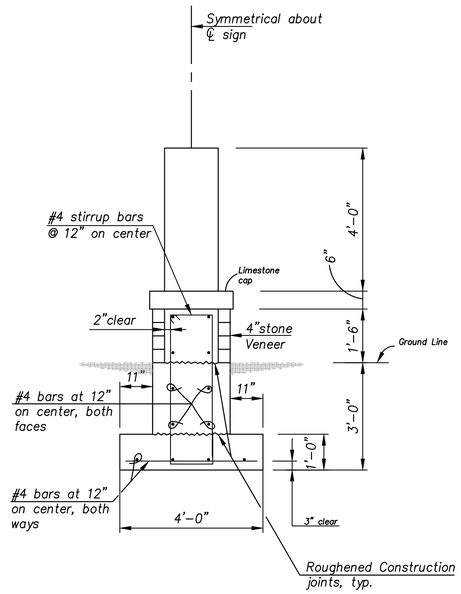
MONUMENT SIGN DETAILS

DATE: 2026
SHEET: 67 OF 104
PROJ.: 18-1006

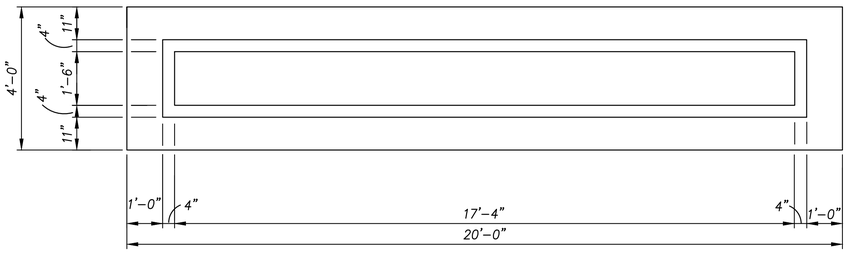
R:\Projects\3006\3006.905.00 Wichita, KS - Crystal Prairie Ph 1\8.0 BIM\R3006.905.00 - CADD\3006.905.00 L5 Details.dwg 3/04/2026 - 8:46am



Foundation Elevation
½" = 1'-0"

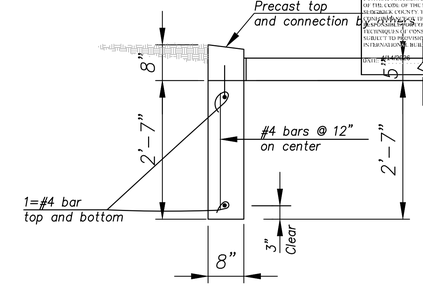


Section A-A
½" = 1'-0"

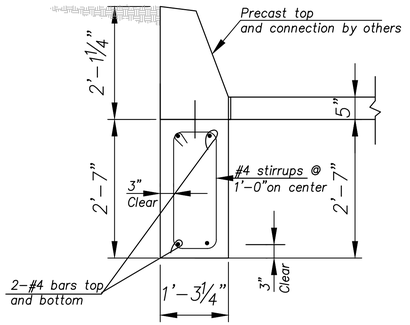


Foundation Plan
½" = 1'-0"

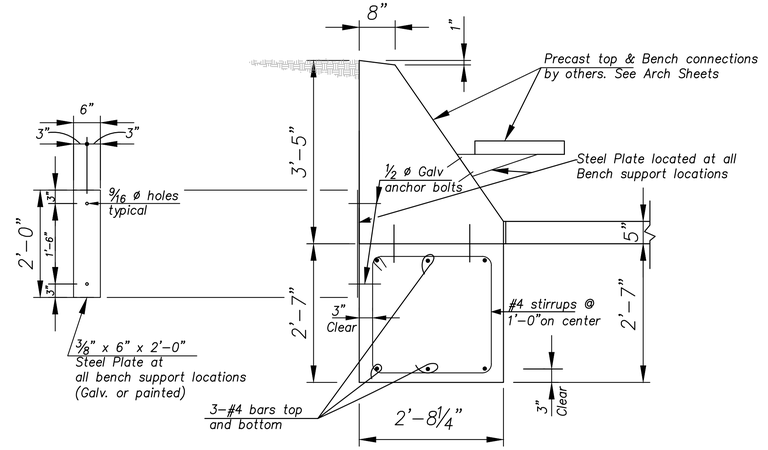
Monument Sign Structural Details



SECTION B3
¾" = 1'-0"



SECTION B2
¾" = 1'-0"



Cove Wall Structural Details

SECTION C1
¾" = 1'-0"

STATE		PROJECT	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS		482-11068	2026	68	104

Wichita-Sedgwick County Metropolitan Area Building and Construction Department

REVIEWED FOR CODE COMPLIANCE

THIS DOCUMENT IS REVIEWED FOR GENERAL COMPLIANCE WITH THE CODES ADOPTED BY THE CITY OF WICHITA AND THIS DOCUMENT DURING THE PLAN REVIEW PROCESS. THIS REVIEW DOES NOT RELIEVE THE CONTRACTOR FROM COMPLIANCE WITH ALL REQUIREMENTS OF THE CODES OF THE CITY OF WICHITA AND OTHER GOVERNING AUTHORITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONSTRUCTION IN ACCORDANCE WITH THE CODES. THE CONSTRUCTION DOCUMENTS APPROVED AND COPIES ARE REQUIRED TO BE ON THE JOB SITE DURING CONSTRUCTION. THIS APPROVAL IS SUBJECT TO THE PROVISIONS OF SECTION 107.4 OF THE INTERNATIONAL BUILDING CODE.

DATE: 2/11/2026 BY: Keri Jacobs

NO.	DATE:	REVISION	BY:	APP'D

DRAWN BY: JMD
APP'D BY: DWH

CFS ENGINEERS

DANIEL W. HOLLOWAY — LICENSED — 15360 — 11-5-26 — KANSAS — PROFESSIONAL ENGINEER

ADAM PROHASKA — LICENSED — 31453 — 11-5-26 — KANSAS — PROFESSIONAL ENGINEER

CITY OF WICHITA

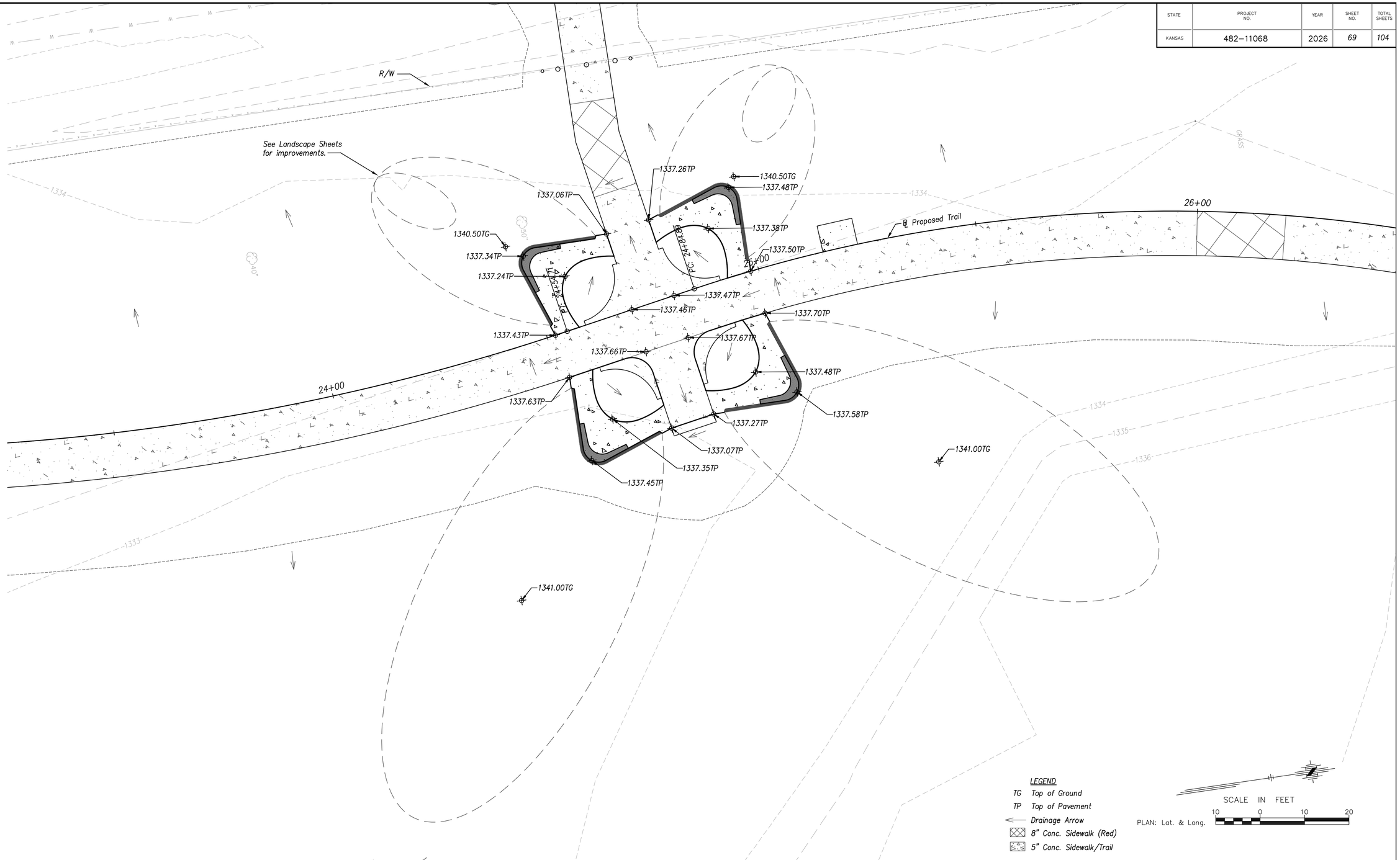
MULTI-USE TRAIL
CRYSTAL PRAIRIE LAKE PARK
PHASE I
482-11068 (R2000)(R5006), 472-2026-086248, 458-2025-085639
WICHITA, KS

Monument Sign & Cove Wall Footing Details

DATE: Feb. 2026
SHEET: 68 of 104
PROJ.: 16-1006

J:\2016Proj\161006\2024 Trail\Ph 1\CADD\161006 Monument Sign Details.dwg 3/05/2026 - 7:39am

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	482-11068	2026	69	104



NO.	DATE:	REVISION	BY:	APP'D

DRAWN BY: JMD

APP'D BY: DWH

CFS ENGINEERS

DANIEL W. HOLLOWAY — LICENSED — #15360 — 3-5-26 — KANSAS PROFESSIONAL ENGINEER

ADAM PROHASKA — LICENSED — 31453 — 3-5-26 — KANSAS PROFESSIONAL ENGINEER

CITY OF WICHITA

MULTI-USE TRAIL
CRYSTAL PRAIRIE LAKE PARK
PHASE I
482-11068 (R2000)(R5006), 472-2026-086248, 458-2025-085639
WICHITA, KS

COVE WALL GRADING PLAN

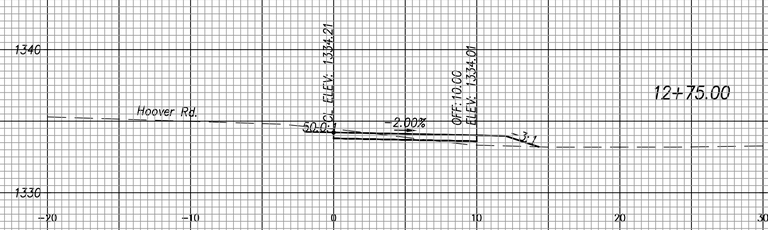
DATE: Feb. 2026
SHEET: 69 of 104
PROJ.: 16-1006

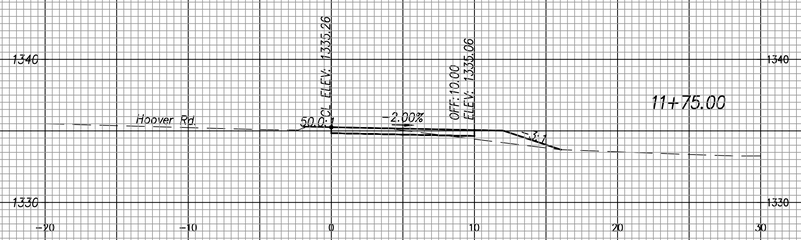
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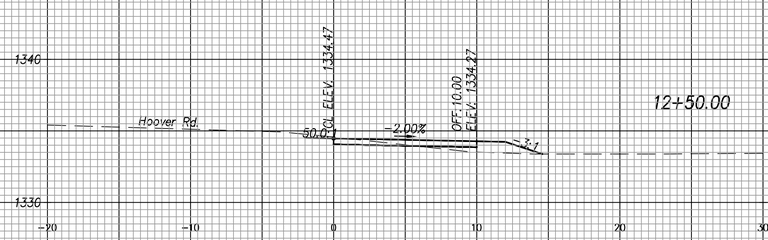
STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	482-11068	2026	70	104

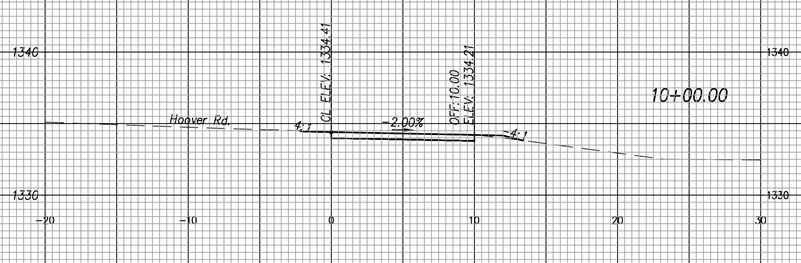
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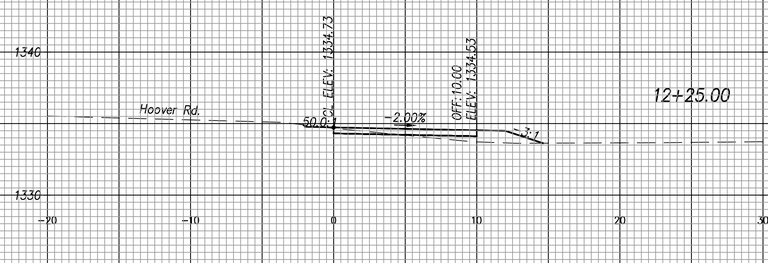












NO.	DATE:	REVISION	BY:	APP'D

DRAWN BY: JMD

APP'D BY: DWH

CFS ENGINEERS

DANIEL W. HOLLOWAY — 15360 — LICENSED PROFESSIONAL ENGINEER — 3-5-26

ADAM PROHASKA — LICENSED — 31453 — KANSAS — PROFESSIONAL ENGINEER — 3-5-26

CITY OF WICHITA

MULTI-USE TRAIL
CRYSTAL PRAIRIE LAKE PARK
PHASE I
482-11068 (R2000)(R5006), 472-2026-086248, 458-2025-085639
WICHITA, KS

Cross Sections
Sta. 10+00.00 to Sta. 12+75.00

DATE: Feb. 2026
SHEET: 70 of 104
PROJ.: 16-1006

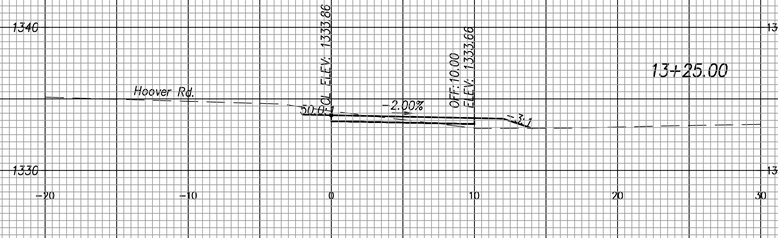
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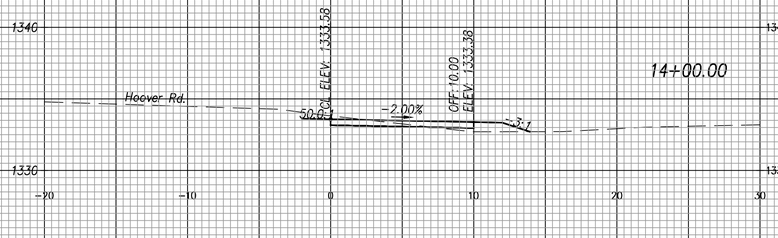
STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	482-11068	2026	71	104

SCALE: 1"=5' HORIZ. & VERT.

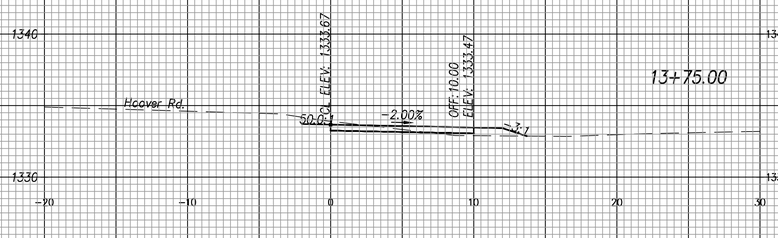












NO.	DATE:	REVISION	BY:	APP'D

DRAWN BY: JMD

APP'D BY: DWH

CFS ENGINEERS

DANIEL W. HOLLOWAY — 15360 — KANSAS — PROFESSIONAL ENGINEER — 3-5-26

ADAM PROHASKA — LICENSED — 31453 — KANSAS — PROFESSIONAL ENGINEER — 3-5-26

CITY OF WICHITA

MULTI-USE TRAIL
CRYSTAL PRAIRIE LAKE PARK
PHASE I
482-11068 (R2000)(R5006), 472-2026-086248, 458-2025-085639
WICHITA, KS

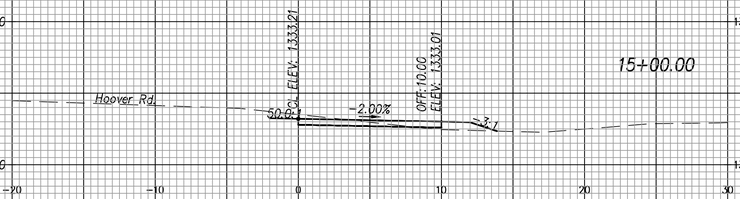
Cross Sections
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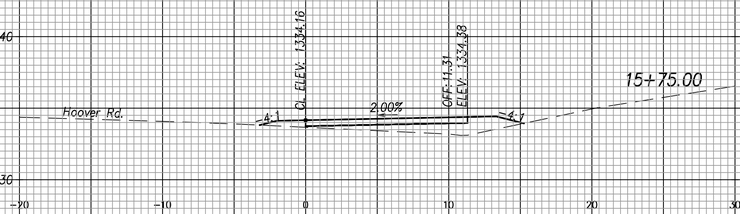
DATE: Feb. 2026
SHEET: 71 of 104
PROJ.: 16-1006

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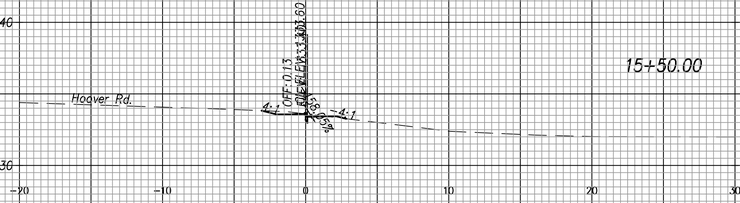
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KANSAS	482-11068	2026	72	104

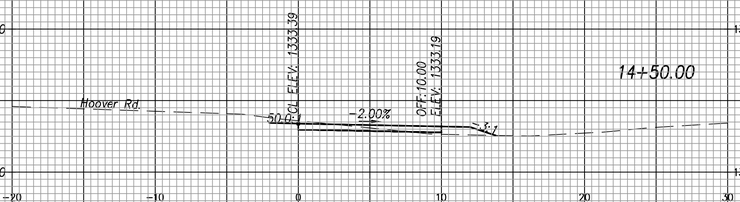
SCALE: 1"=5' HORIZ. & VERT.













NO.	DATE:	REVISION	BY:	APP'D

DRAWN BY: JMD

APP'D BY: DWH

CFS ENGINEERS

DANIEL W. HOLLOWAY — 15360 — KANSAS — PROFESSIONAL ENGINEER — 3-5-26

ADAM PROHASKA — LICENSED — 31453 — KANSAS — PROFESSIONAL ENGINEER — 3-5-26

CITY OF WICHITA

MULTI-USE TRAIL
CRYSTAL PRAIRIE LAKE PARK
PHASE I
482-11068 (R2000)(R5006), 472-2026-086248, 458-2025-085639
WICHITA, KS

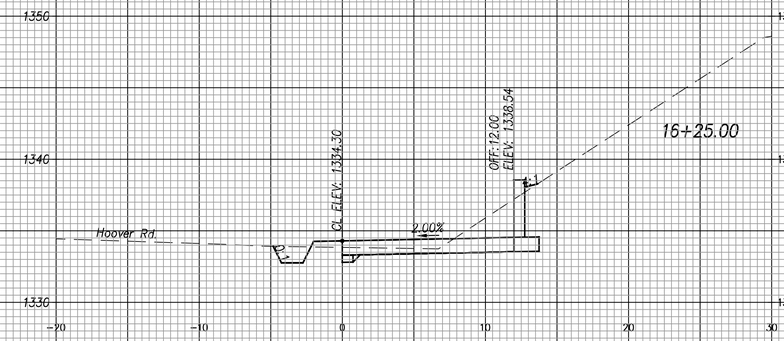
Cross Sections
Sta. 14+50.00 to Sta. 15+75.00

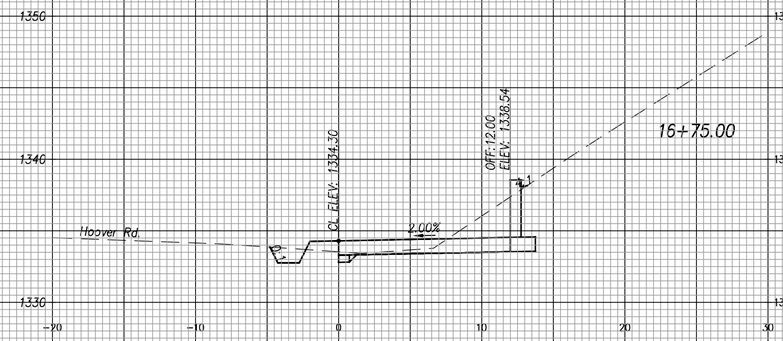
DATE: Feb. 2026
SHEET: 72 of 104
PROJ.: 16-1006

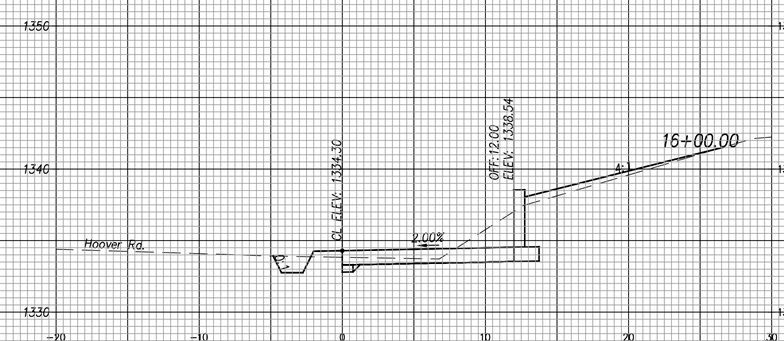
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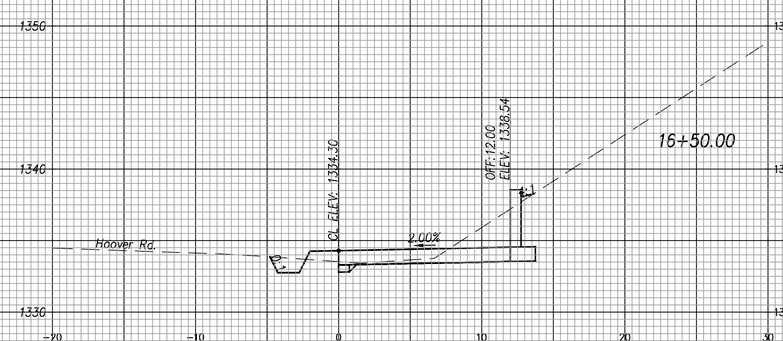
STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	482-11068	2026	73	104

SCALE: 1"=5' HORIZ. & VERT.









NO.	DATE:	REVISION	BY:	APP'D

DRAWN BY: JMD

APP'D BY: DWH

CFS ENGINEERS

DANIEL W. HOLLOWAY — 15360 — 4-5-26 — KANSAS — PROFESSIONAL ENGINEER

ADAM PROHASKA — LICENSED — 31453 — 4-5-26 — KANSAS — PROFESSIONAL ENGINEER

CITY OF WICHITA

MULTI-USE TRAIL
CRYSTAL PRAIRIE LAKE PARK
PHASE I
482-11068 (R2000)(R5006), 472-2026-086248, 458-2025-085639
WICHITA, KS

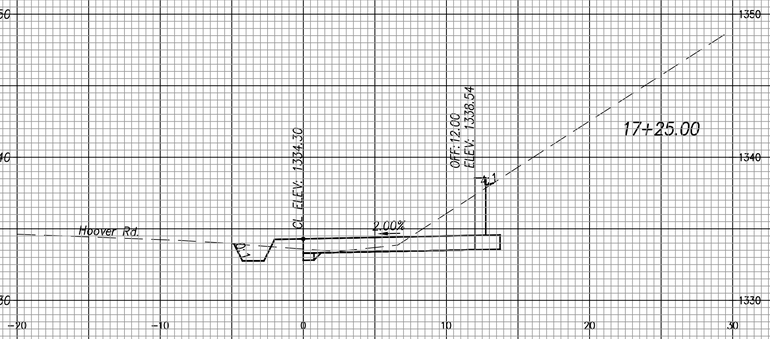
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Sta. 16+75.00 to Sta. 16+75.00

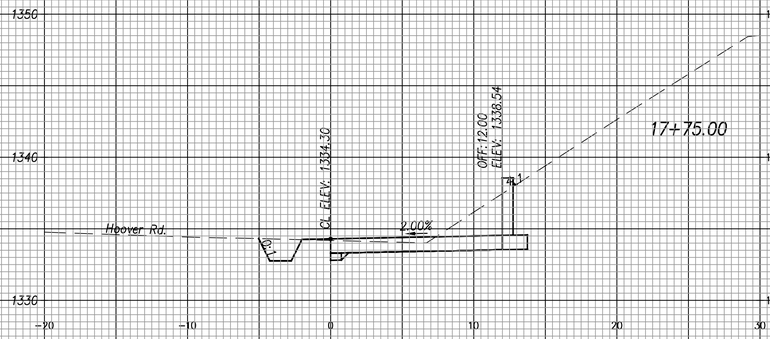
DATE: Feb. 2026
SHEET: 73 of 104
PROJ.: 16-1006

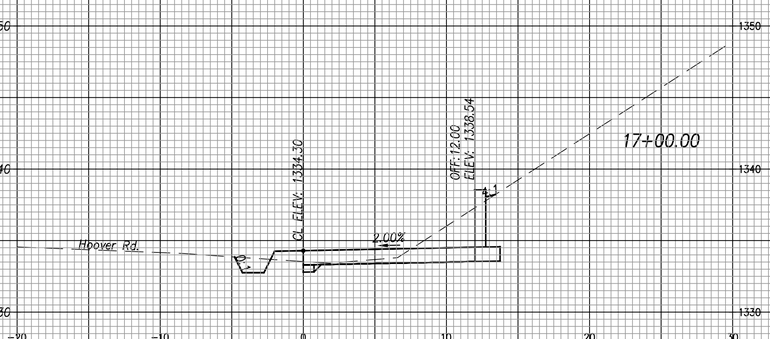
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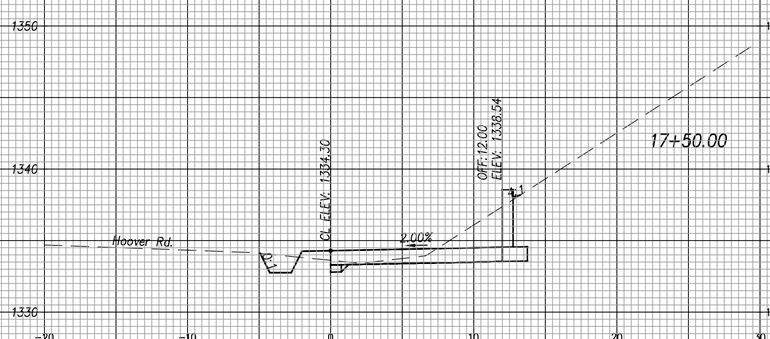
STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	482-11068	2026	74	104

SCALE: 1"=5' HORIZ. & VERT.









NO.	DATE:	REVISION	BY:	APP'D

DRAWN BY: JMD

APP'D BY: DWH

CFS ENGINEERS

DANIEL W. HOLLOWAY — 15369 — 3-5-26 — KANSAS — PROFESSIONAL ENGINEER

ADAM PROHASKA — LICENSED — 31453 — 3-5-26 — KANSAS — PROFESSIONAL ENGINEER

CITY OF WICHITA

MULTI-USE TRAIL
CRYSTAL PRAIRIE LAKE PARK
PHASE I
482-11068 (R2000)(R5006), 472-2026-086248, 458-2025-085639
WICHITA, KS

Cross Sections
Sta. 17+00.00 to Sta. 17+75.00

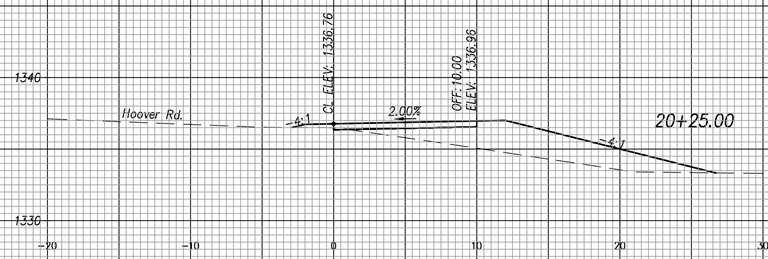
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SHEET: 74 of 104
PROJ.: 16-1006

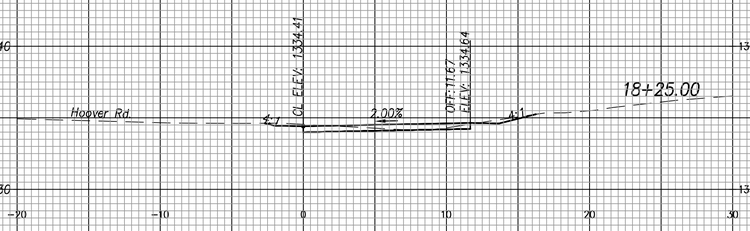
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STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
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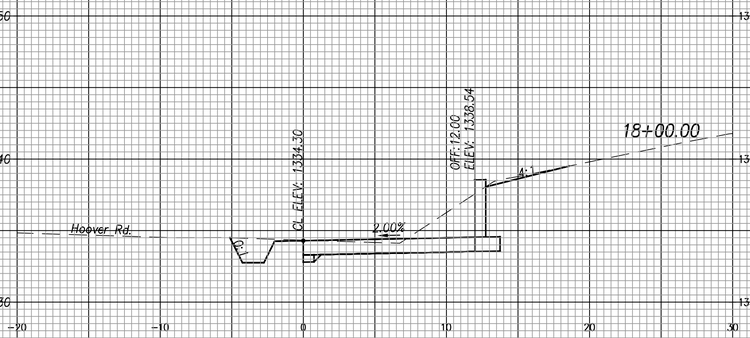
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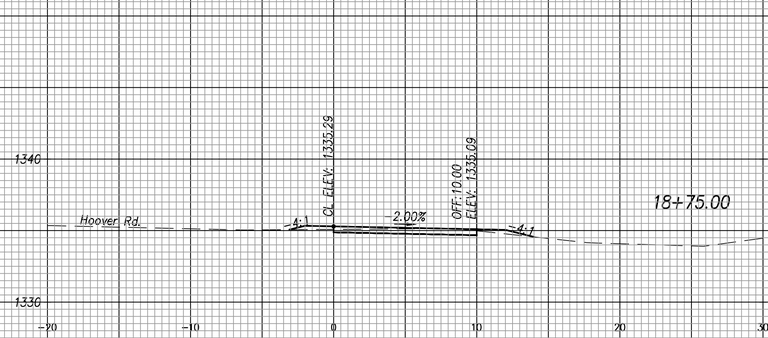












NO.	DATE:	REVISION	BY:	APP'D

DRAWN BY: JMD

APP'D BY: DWH

CFS ENGINEERS

DANIEL W. HOLLOWAY — 15369 — 5-5-26 — KANSAS — PROFESSIONAL ENGINEER

ADAM PROHASKA — LICENSED — 31453 — 5-5-26 — KANSAS — PROFESSIONAL ENGINEER

CITY OF WICHITA

MULTI-USE TRAIL
CRYSTAL PRAIRIE LAKE PARK
PHASE I
482-11068 (R2000)(R5006), 472-2026-086248, 458-2025-085639
WICHITA, KS

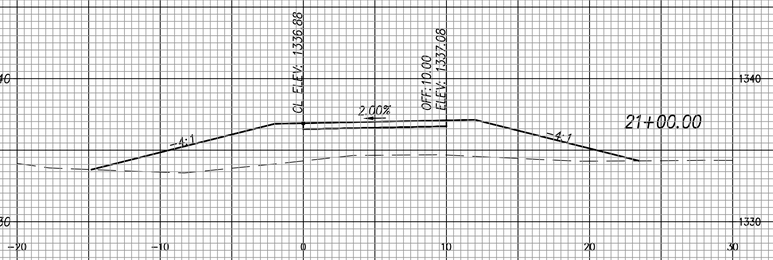
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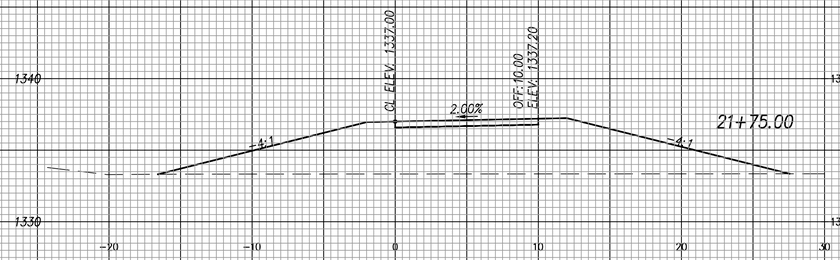
DATE: Feb. 2026
SHEET: 75 of 104
PROJ.: 16-1006

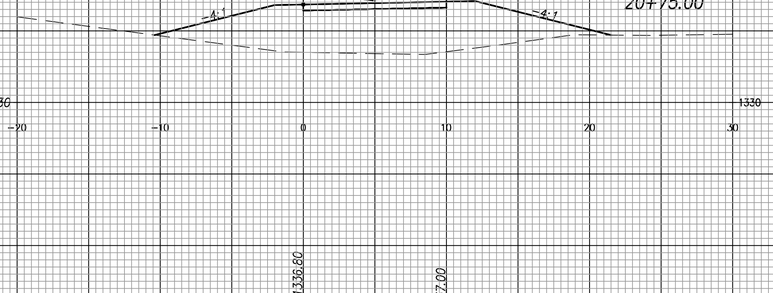
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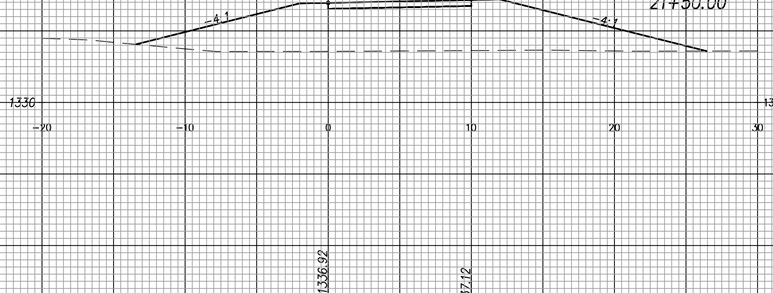
STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	482-11068	2026	76	104

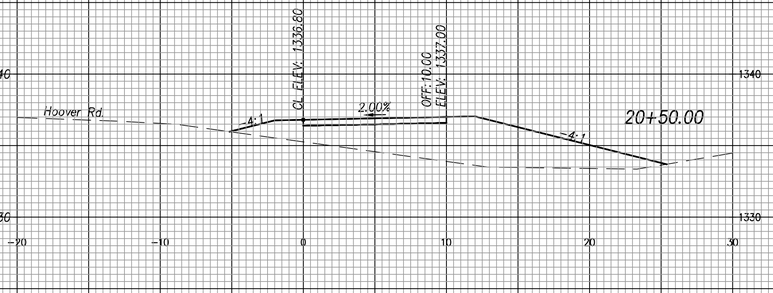
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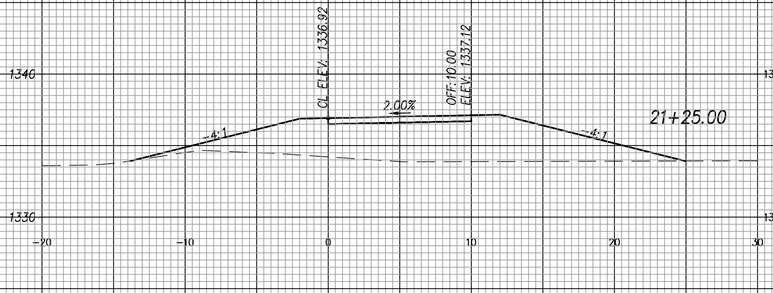












NO.	DATE:	REVISION	BY:	APP'D

DRAWN BY: JMD

APP'D BY: DWH

CFS ENGINEERS

DANIEL W. HOLLOWAY — LICENSED — #15360 — 11-5-26 — KANSAS — PROFESSIONAL ENGINEER

ADAM PROHASKA — LICENSED — 31453 — 11-5-26 — KANSAS — PROFESSIONAL ENGINEER

CITY OF WICHITA

MULTI-USE TRAIL
CRYSTAL PRAIRIE LAKE PARK
PHASE I
482-11068 (R2000)(R5006), 472-2026-086248, 458-2025-085639
WICHITA, KS

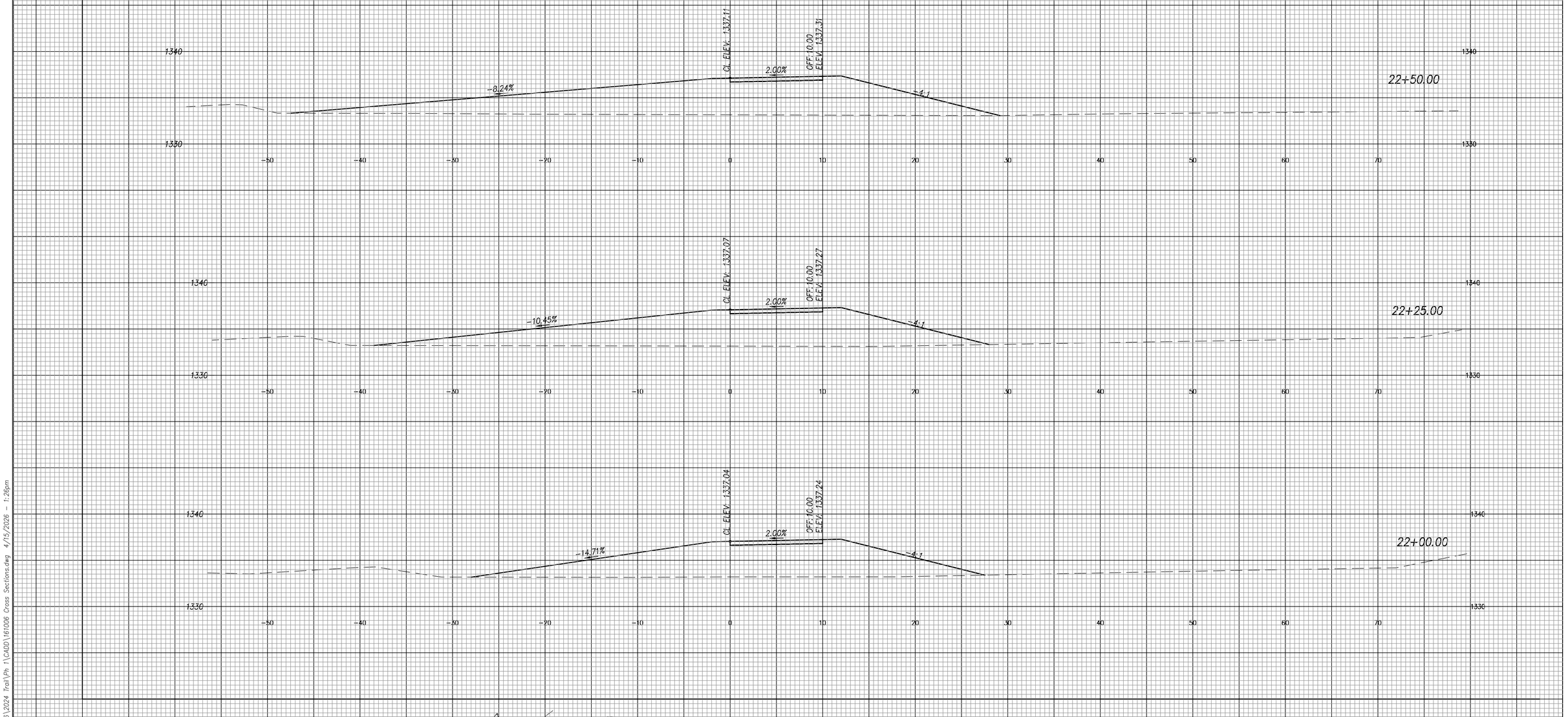
Cross Sections
Sta. 20+50.00 to Sta. 21+75.00

DATE: Feb. 2026
SHEET: 76 of 104
PROJ.: 16-1006

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STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	482–11068	2026	77	104

SCALE: 1"=5' HORIZ. & VERT.



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NO.	DATE:	REVISION	BY:	APP'D

DRAWN BY: JMD

APP'D BY: DWH

CFS ENGINEERS

DANIEL W. HOLLOWAY — LICENSED — 15360 — KANSAS — PROFESSIONAL ENGINEER — 3-5-26

ADAM PROHASKA — LICENSED — 31453 — KANSAS — PROFESSIONAL ENGINEER — 3-5-26

CITY OF WICHITA

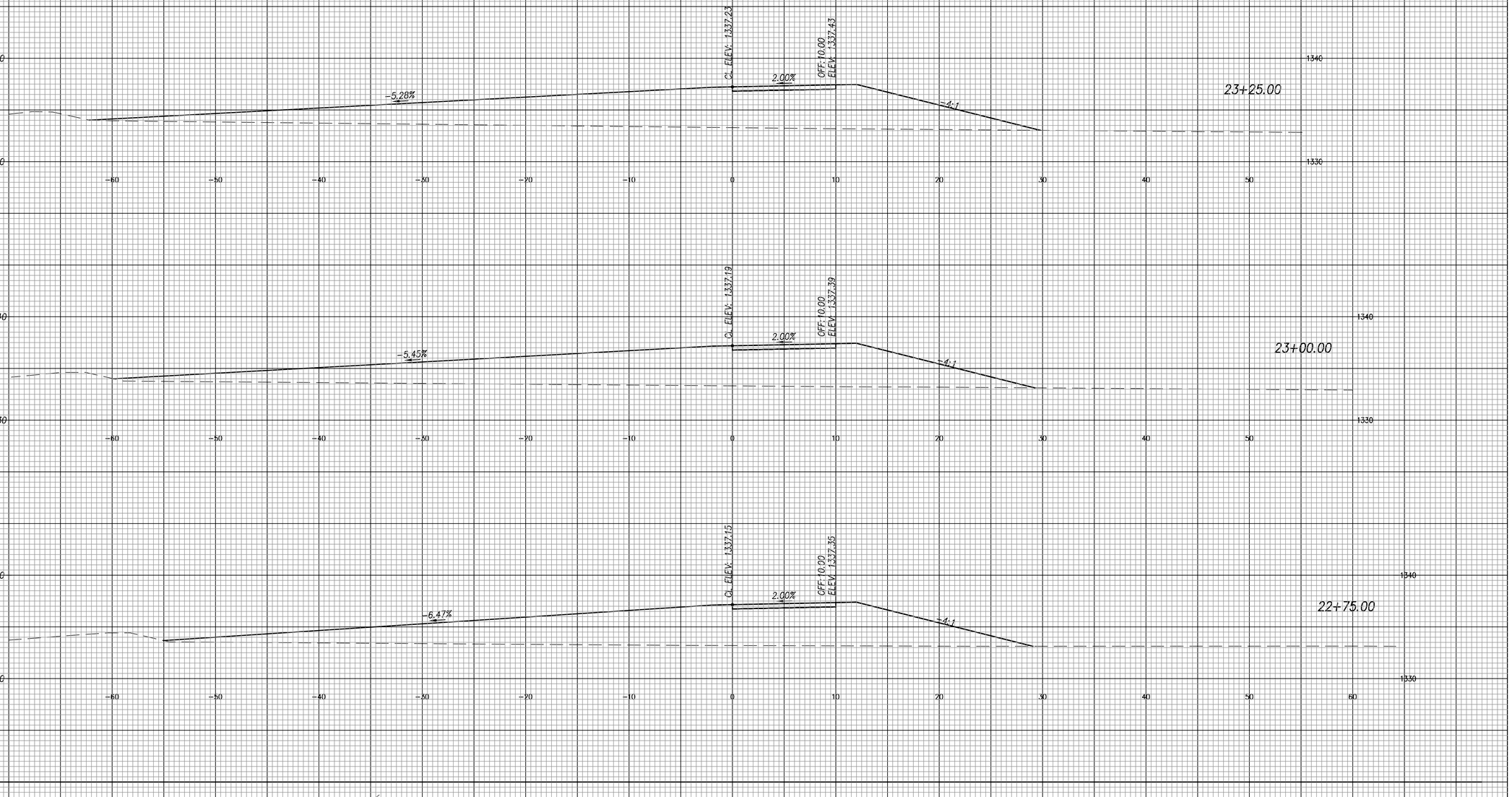
MULTI-USE TRAIL
CRYSTAL PRAIRIE LAKE PARK
PHASE I
482-11068 (R2000)(R5006), 472-2026-086248, 458-2025-085639
WICHITA, KS

Cross Sections
Sta. 22+00.00 to Sta. 22+50.00

DATE: Feb. 2026
SHEET: 77 of 104
PROJ.: 16–1006

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	482-11068	2026	78	104

SCALE: 1"=5' HORIZ. & VERT.



NO.	DATE:	REVISION	BY:	APP'D

DRAWN BY: JMD

APP'D BY: DWH

CFS ENGINEERS

DANIEL W. HOLLOWAY — LICENSED — #15360 — 11-5-26 — KANSAS — PROFESSIONAL ENGINEER

ADAM PROHASKA — LICENSED — 31453 — 11-5-26 — KANSAS — PROFESSIONAL ENGINEER

CITY OF WICHITA

MULTI-USE TRAIL
CRYSTAL PRAIRIE LAKE PARK
PHASE I
482-11068 (R2000)(R5006), 472-2026-086248, 458-2025-085639
WICHITA, KS

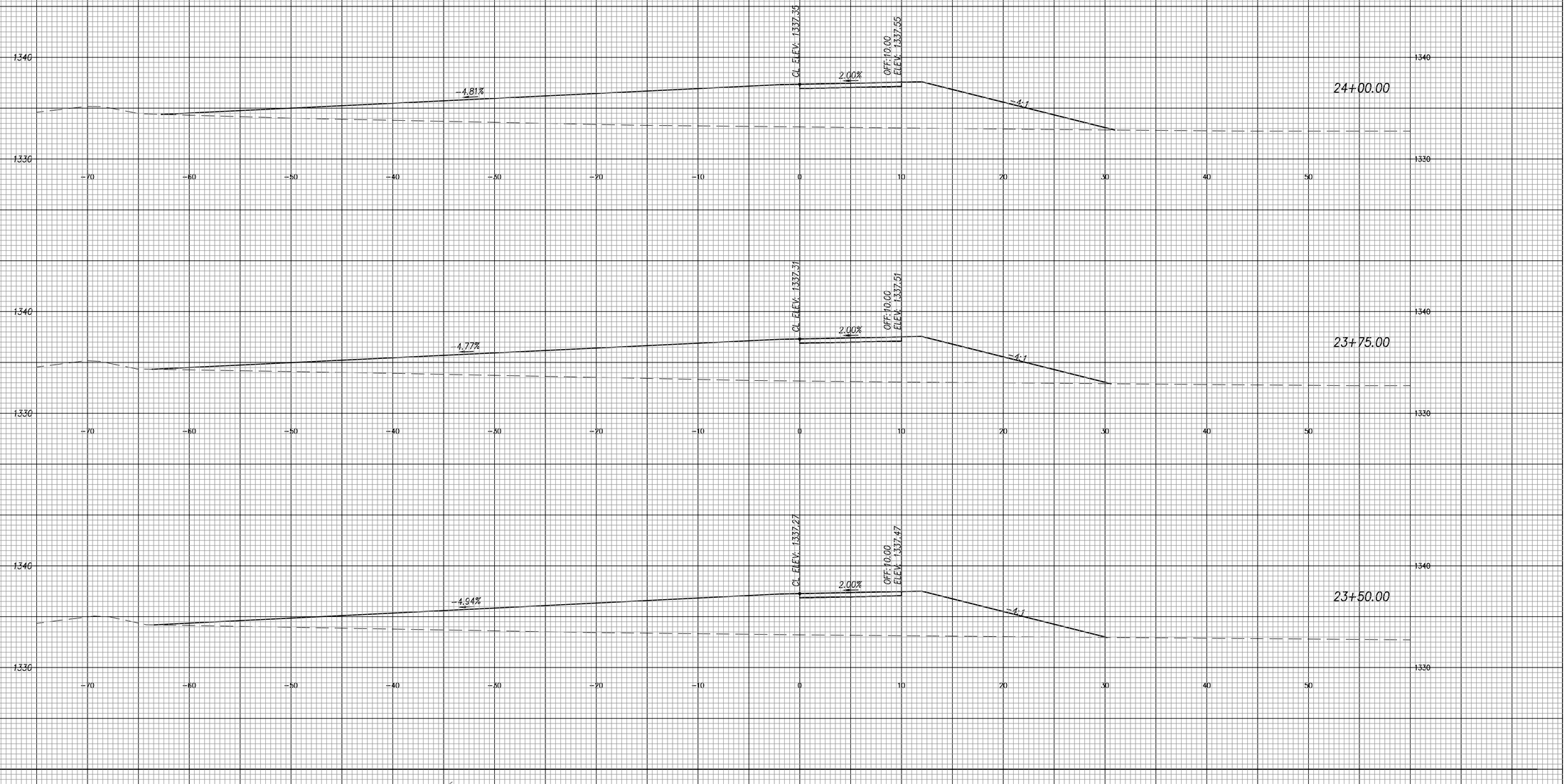
Cross Sections
Sta. 22+75.00 to Sta. 23+25.00

DATE: Feb. 2026
SHEET: 78 of 104
PROJ.: 16-1006

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STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	482-11068	2026	79	104

SCALE: 1"=5' HORIZ. & VERT.



NO.	DATE:	REVISION	BY:	APP'D

DRAWN BY: JMD

APP'D BY: DWH

CFS ENGINEERS

DANIEL W. HOLLOWAY — LICENSED — 15360 — 4-5-26 — KANSAS — PROFESSIONAL ENGINEER

ADAM PROHASKA — LICENSED — 31453 — 4-5-26 — KANSAS — PROFESSIONAL ENGINEER

CITY OF WICHITA

MULTI-USE TRAIL
CRYSTAL PRAIRIE LAKE PARK
PHASE I
482-11068 (R2000)(R5006), 472-2026-086248, 458-2025-085639
WICHITA, KS

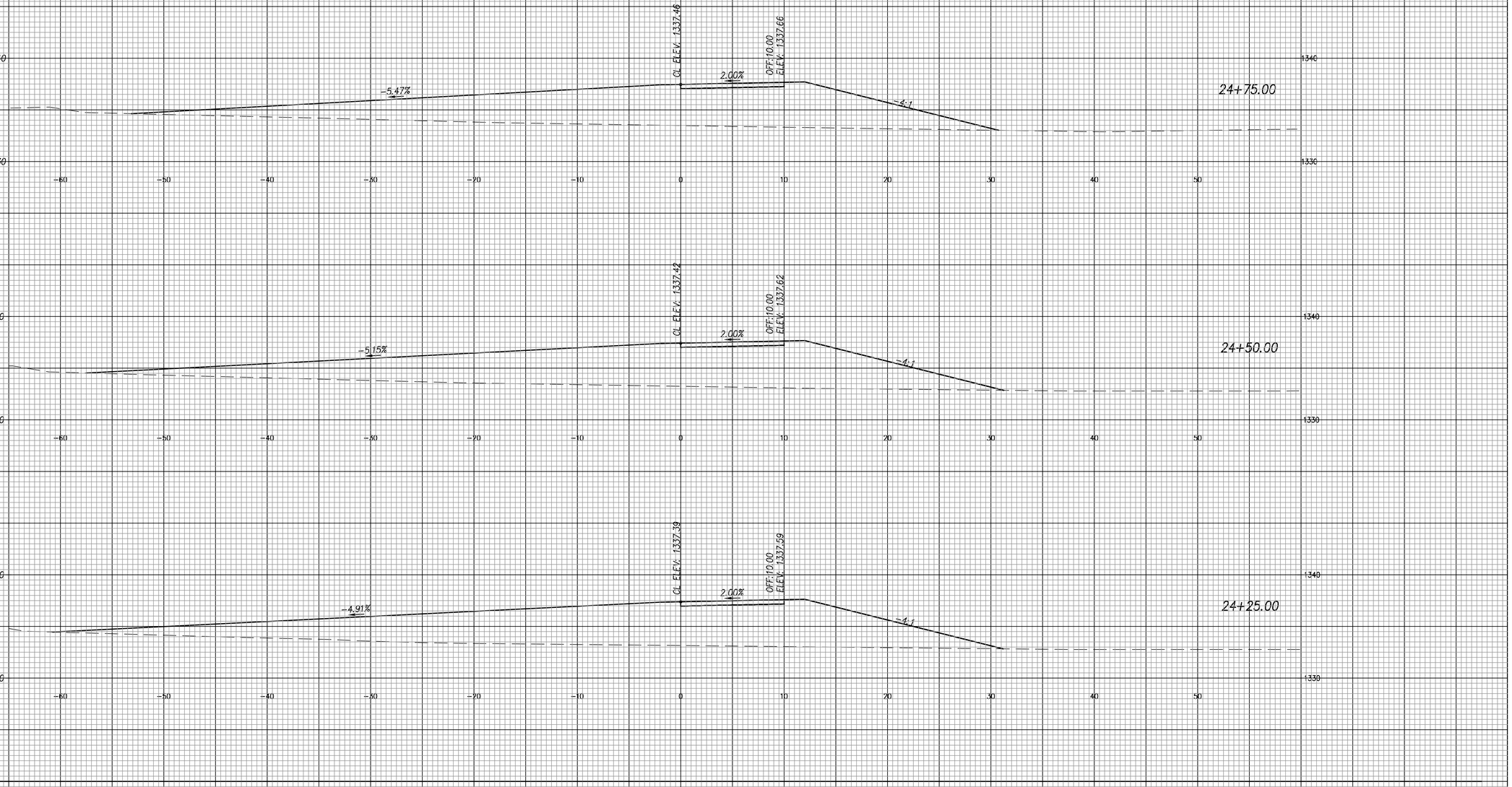
Cross Sections
Sta. 23+50.00 to Sta. 24+00.00

DATE: Feb. 2026
SHEET: 79 of 104
PROJ.: 16-1006

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STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	482-11068	2026	80	104

SCALE: 1"=5' HORIZ. & VERT.



NO.	DATE:	REVISION	BY:	APP'D

DRAWN BY: JMD

APP'D BY: DWH

CFS ENGINEERS

DANIEL W. HOLLOWAY — LICENSED — #15360 — 11-5-26 — KANSAS — PROFESSIONAL ENGINEER

ADAM PROHASKA — LICENSED — 31453 — 11-5-26 — KANSAS — PROFESSIONAL ENGINEER

CITY OF WICHITA

MULTI-USE TRAIL
CRYSTAL PRAIRIE LAKE PARK
PHASE I
482-11068 (R2000)(R5006), 472-2026-086248, 458-2025-085639
WICHITA, KS

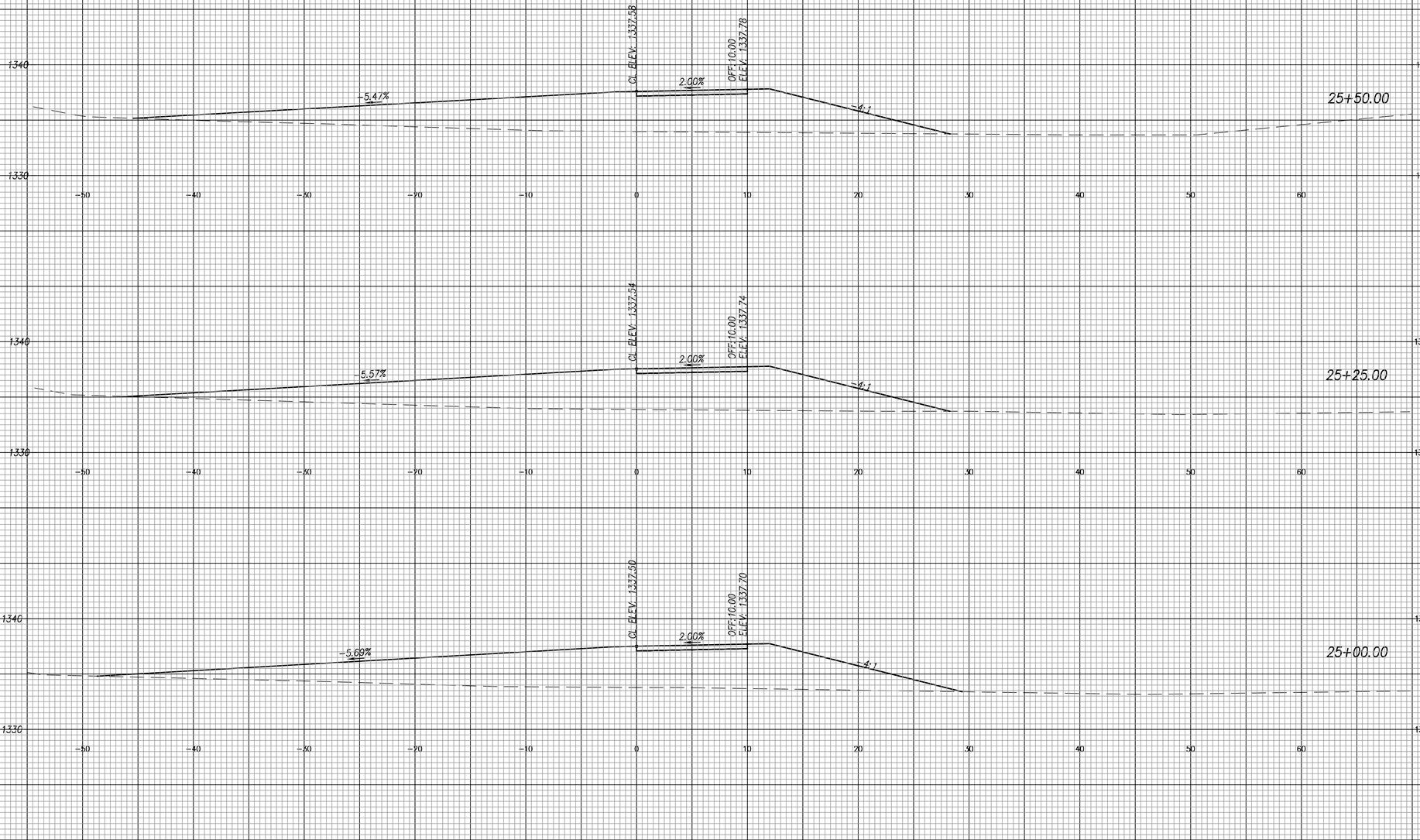
Cross Sections
Sta. 24+25.00 to Sta. 24+75.00

DATE: Feb. 2026
SHEET: 80 of 104
PROJ.: 16-1006

J:\2016Proj\161006\2024 Trail\Ph 1\CADD\161006 Cross Sections.dwg 4/15/2026 - 1:26pm

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	482-11068	2026	81	104

SCALE: 1"=5' HORIZ. & VERT.



NO.	DATE:	REVISION	BY:	APP'D

DRAWN BY: JMD

APP'D BY: DWH

CFS ENGINEERS

DANIEL W. HOLLOWAY — LICENSED — 15360 — 4-5-26 — KANSAS — PROFESSIONAL ENGINEER

ADAM PROHASKA — LICENSED — 31453 — 4-5-26 — KANSAS — PROFESSIONAL ENGINEER

CITY OF WICHITA

MULTI-USE TRAIL
CRYSTAL PRAIRIE LAKE PARK
PHASE I
482-11068 (R2000)(R5006), 472-2026-086248, 458-2025-085639
WICHITA, KS

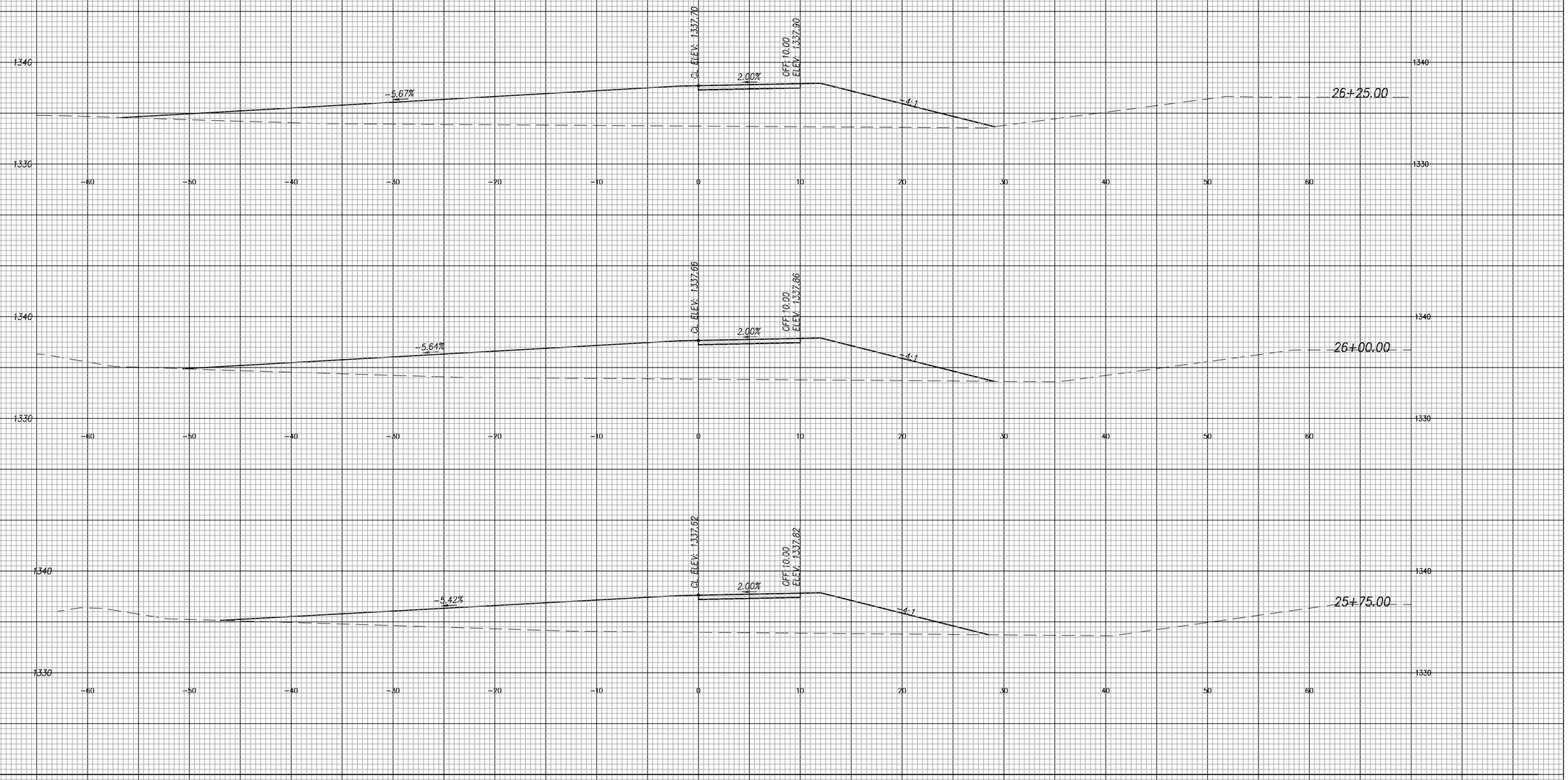
Cross Sections
Sta. 25+00.00 to Sta. 25+50.00

DATE: Feb. 2026
SHEET: 81 of 104
PROJ.: 16-1006

J:\2016Proj\161006\2024 Trail\Ph 1\CADD\161006 Cross Sections.dwg 4/15/2026 - 1:26pm

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	482-11068	2026	82	104

SCALE: 1"=5' HORIZ. & VERT.



NO.	DATE:	REVISION	BY:	APP'D

DRAWN BY: JMD

APP'D BY: DWH

CFS ENGINEERS

DANIEL W. HOLLOWAY — LICENSED — 15360 — 11-5-26 — KANSAS — PROFESSIONAL ENGINEER

ADAM PROHASKA — LICENSED — 31453 — 11-5-26 — KANSAS — PROFESSIONAL ENGINEER

CITY OF WICHITA

MULTI-USE TRAIL
CRYSTAL PRAIRIE LAKE PARK
PHASE I
482-11068 (R2000)(R5006), 472-2026-086248, 458-2025-085639
WICHITA, KS

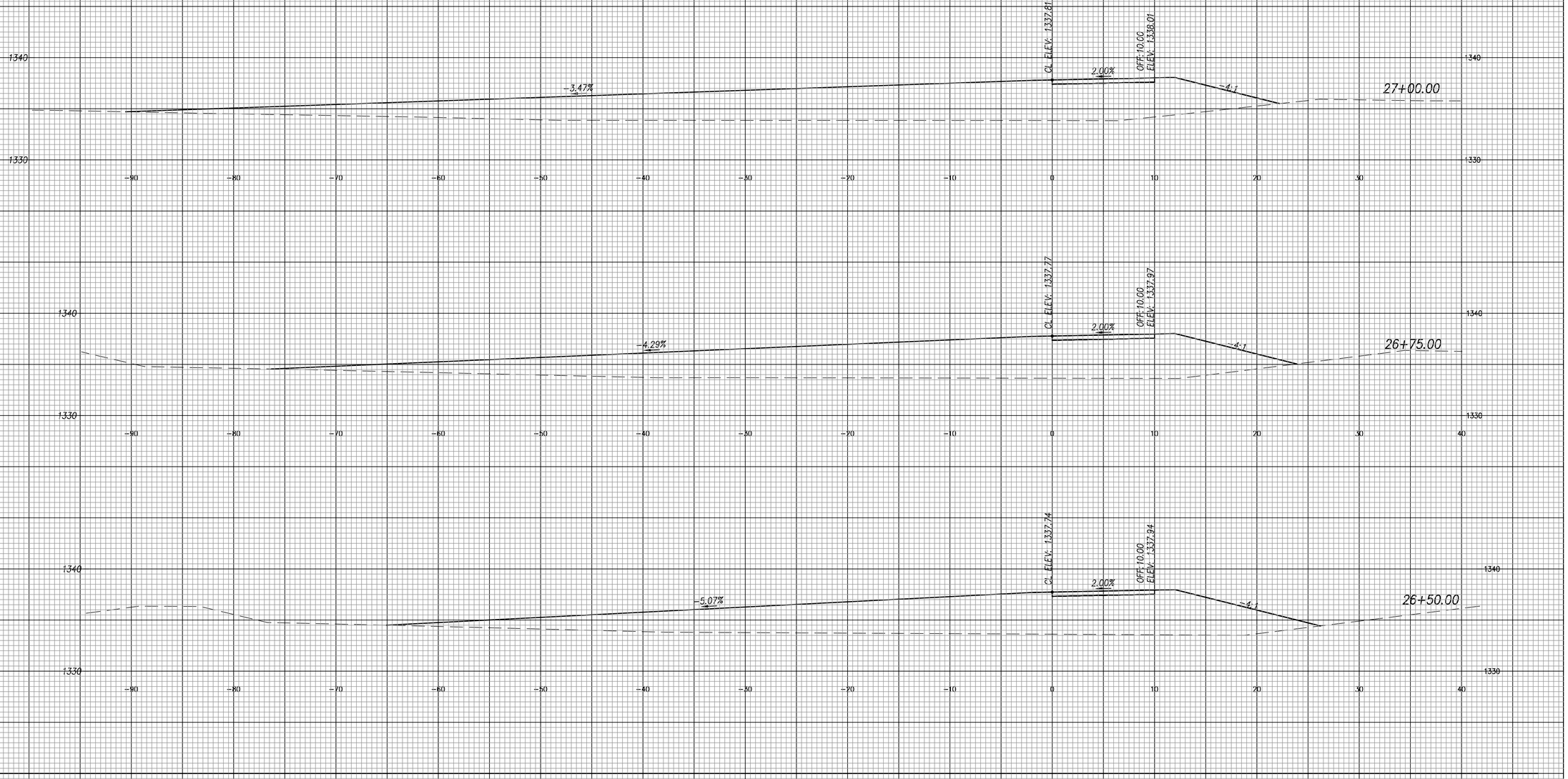
Cross Sections
Sta. 25+75.00 to Sta. 26+25.00

DATE: Feb. 2026
SHEET: 82 of 104
PROJ.: 16-1006

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STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	482-11068	2026	83	104

SCALE: 1"=5' HORIZ. & VERT.



NO.	DATE:	REVISION	BY:	APP'D

DRAWN BY: JMD

APP'D BY: DWH

CFS ENGINEERS

DANIEL W. HOLLOWAY — LICENSED — 15360 — 11-5-26 — KANSAS — PROFESSIONAL ENGINEER

ADAM PROHASKA — LICENSED — 31453 — 11-5-26 — KANSAS — PROFESSIONAL ENGINEER

CITY OF WICHITA

MULTI-USE TRAIL
CRYSTAL PRAIRIE LAKE PARK
PHASE I
482-11068 (R2000)(R5006), 472-2026-086248, 458-2025-085639
WICHITA, KS

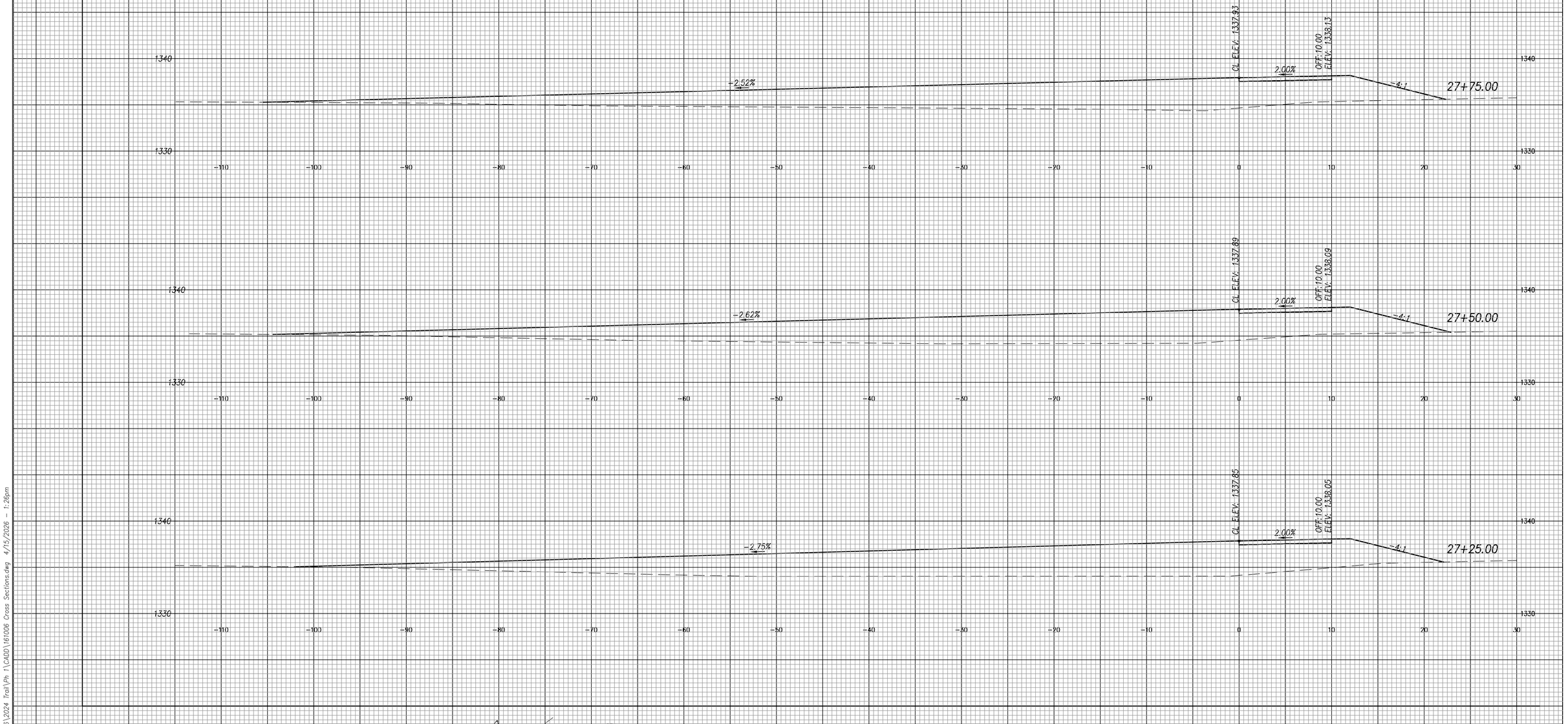
Cross Sections
Sta. 26+50.00 to Sta. 27+00.00

DATE: Feb. 2026
SHEET: 83 of 104
PROJ.: 16-1006

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STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	482-11068	2026	84	104

SCALE: 1"=5' HORIZ. & VERT.



NO.	DATE:	REVISION	BY:	APP'D

DRAWN BY: JMD

APP'D BY: DWH

CFS ENGINEERS

DANIEL W. HOLLOWAY — 15360 — KANSAS — PROFESSIONAL ENGINEER — 3-5-26

ADAM PROHASKA — LICENSED — 31453 — KANSAS — PROFESSIONAL ENGINEER — 3-5-26

CITY OF WICHITA

MULTI-USE TRAIL
CRYSTAL PRAIRIE LAKE PARK
PHASE I
482-11068 (R2000)(R5006), 472-2026-086248, 458-2025-085639
WICHITA, KS

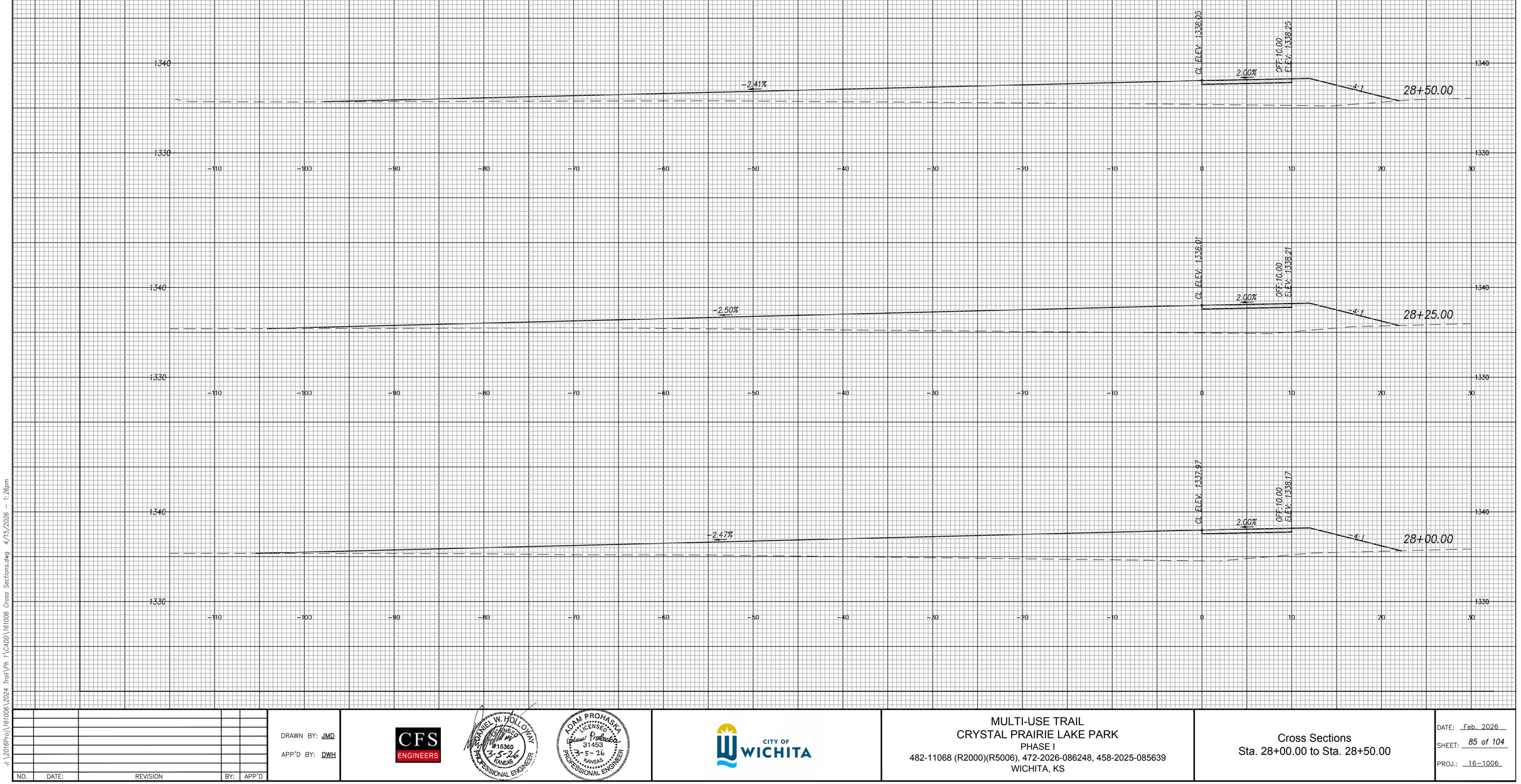
Cross Sections
Sta. 27+25.00 to Sta. 27+75.00

DATE: Feb. 2026
SHEET: 84 of 104
PROJ.: 16-1006

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STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	482-11068	2026	85	104

SCALE: 1"=5' HORIZ. & VERT.



NO.	DATE:	REVISION	BY:	APP'D

DRAWN BY: JMD

APP'D BY: DWH

CFS ENGINEERS

DANIEL W. HOLLOWAY — LICENSED — #15362 — 11-5-26 — KANSAS — PROFESSIONAL ENGINEER

ADAM PROHASKA — LICENSED — 31483 — 11-5-26 — KANSAS — PROFESSIONAL ENGINEER

CITY OF WICHITA

MULTI-USE TRAIL
CRYSTAL PRAIRIE LAKE PARK
PHASE I
482-11068 (R2000)(R5006), 472-2026-086248, 458-2025-085639
WICHITA, KS

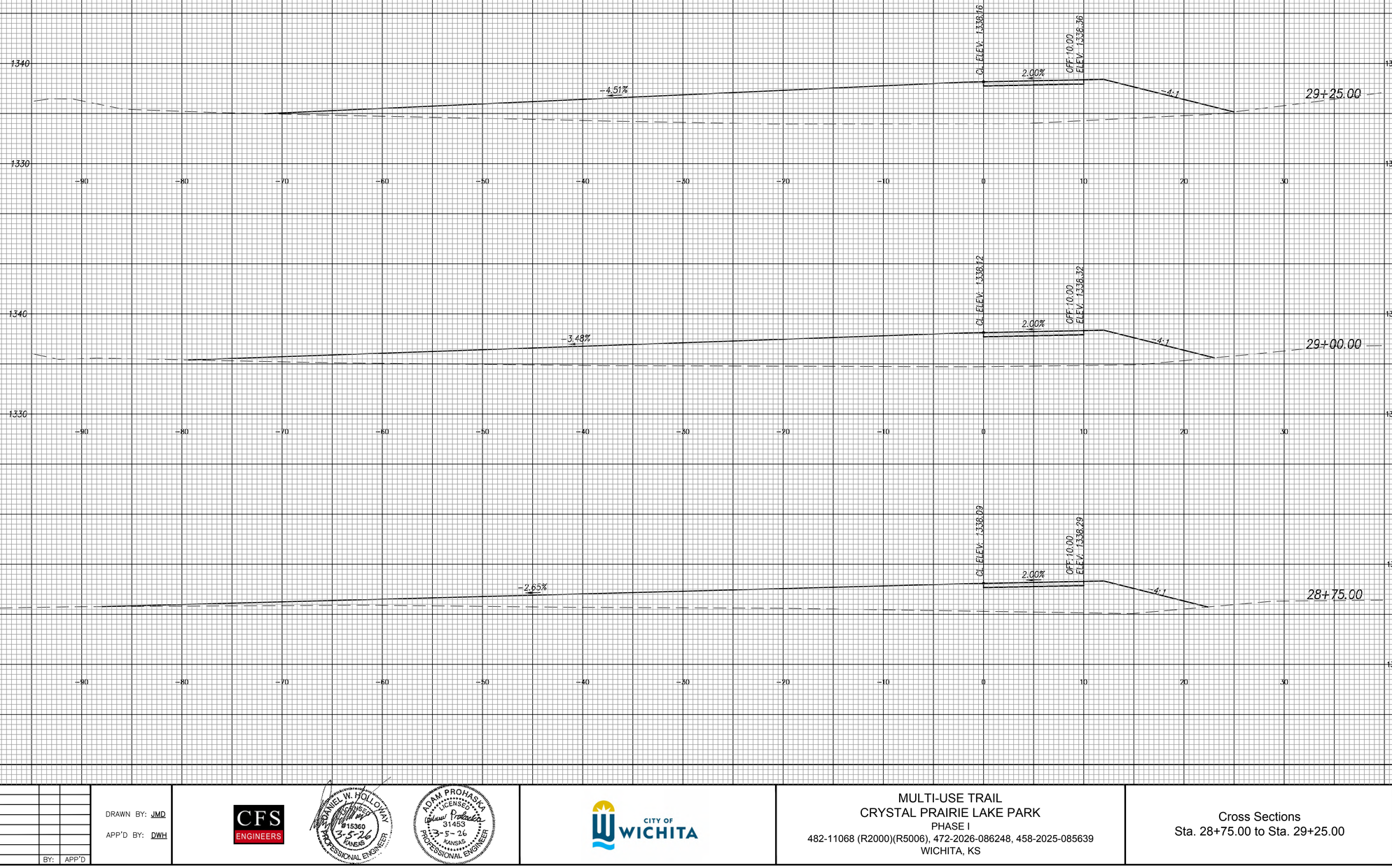
Cross Sections
Sta. 28+00.00 to Sta. 28+50.00

DATE: Feb. 2026
SHEET: 85 of 104
PROJ.: 16-1006

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STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	482–11068	2026	86	104

SCALE: 1"=5' HORIZ. & VERT.



NO.	DATE:	REVISION	BY:	APP'D

DRAWN BY: JMD

APP'D BY: DWH

CFS ENGINEERS

DANIEL W. HOLLOWAY — LICENSED — #15362 — 4-5-26 — KANSAS — PROFESSIONAL ENGINEER

ADAM PROHASKA — LICENSED — 31483 — 4-5-26 — KANSAS — PROFESSIONAL ENGINEER

CITY OF WICHITA

MULTI-USE TRAIL
CRYSTAL PRAIRIE LAKE PARK
PHASE I
482-11068 (R2000)(R5006), 472-2026-086248, 458-2025-085639
WICHITA, KS

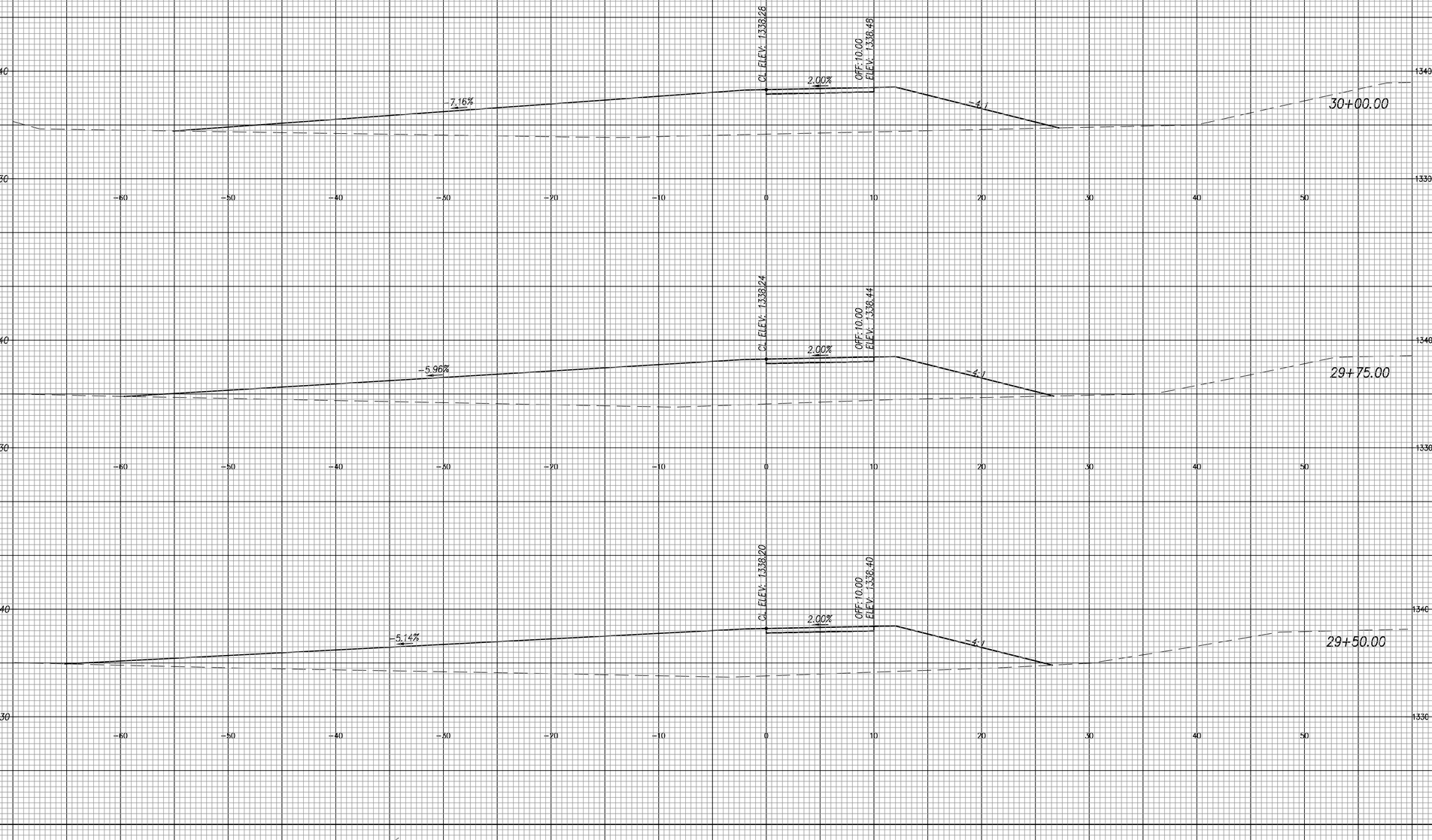
Cross Sections
Sta. 28+75.00 to Sta. 29+25.00

DATE: Feb. 2026
SHEET: 86 of 104
PROJ.: 16–1006

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STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	482-11068	2026	87	104

SCALE: 1"=5' HORIZ. & VERT.



NO.	DATE:	REVISION	BY:	APP'D

DRAWN BY: JMD

APP'D BY: DWH

CFS ENGINEERS

DANIEL W. HOLLOWAY — LICENSED — 15360 — 4-5-26 — KANSAS — PROFESSIONAL ENGINEER

ADAM PROHASKA — LICENSED — 31453 — 4-5-26 — KANSAS — PROFESSIONAL ENGINEER

CITY OF WICHITA

MULTI-USE TRAIL
CRYSTAL PRAIRIE LAKE PARK
PHASE I
482-11068 (R2000)(R5006), 472-2026-086248, 458-2025-085639
WICHITA, KS

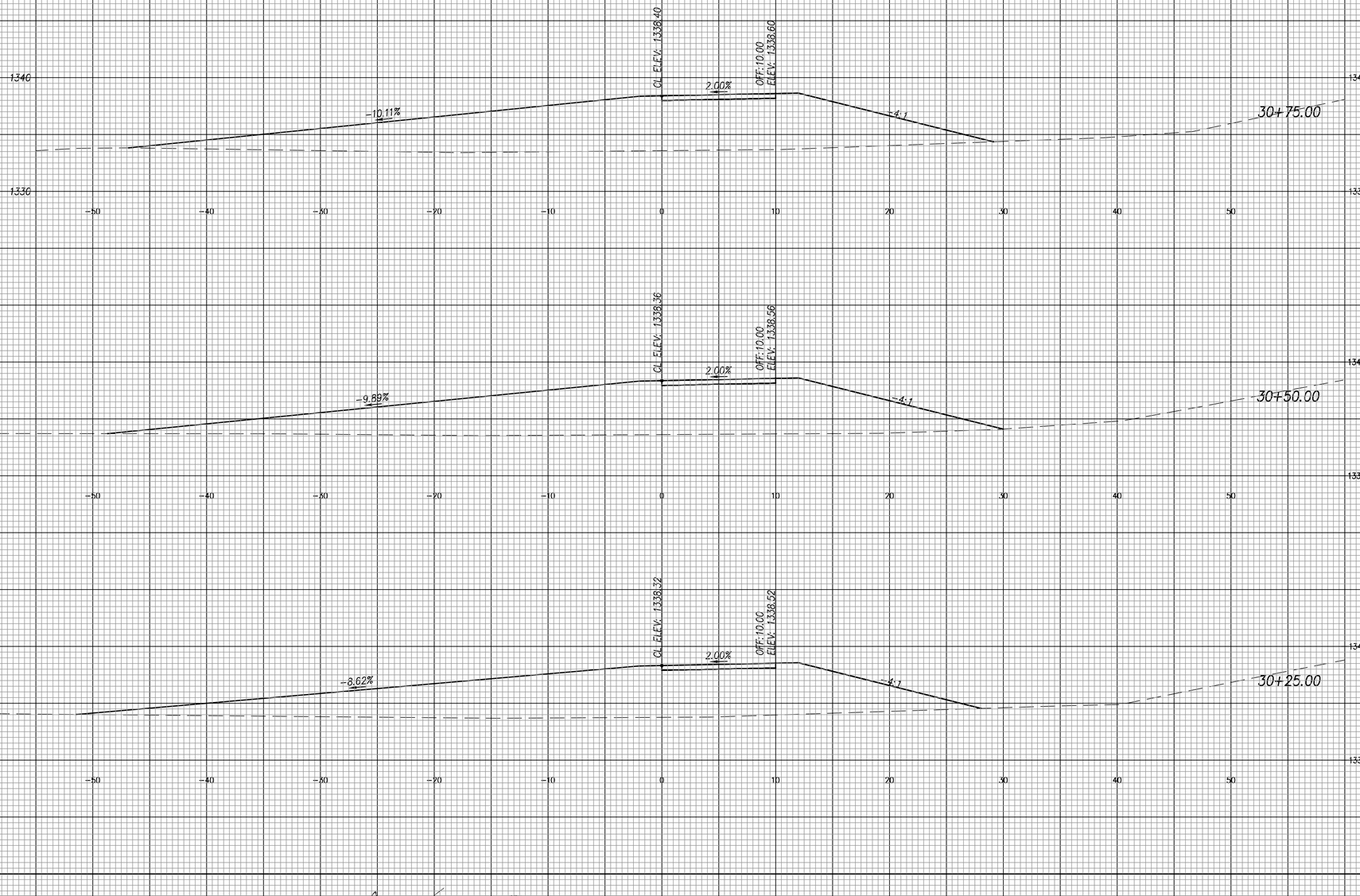
Cross Sections
Sta. 29+50.00 to Sta. 30+00.00

DATE: Feb. 2026
SHEET: 87 of 104
PROJ.: 16-1006

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STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	482-11068	2026	88	104

SCALE: 1"=5' HORIZ. & VERT.



NO.	DATE:	REVISION	BY:	APP'D

DRAWN BY: JMD

APP'D BY: DWH

CFS ENGINEERS

DANIEL W. HOLLOWAY — 15360 — LICENSED PROFESSIONAL ENGINEER — 3-5-26 — KANSAS

ADAM PROHASKA — LICENSED — 31453 — 3-5-26 — KANSAS PROFESSIONAL ENGINEER

CITY OF WICHITA

MULTI-USE TRAIL
CRYSTAL PRAIRIE LAKE PARK
PHASE I
482-11068 (R2000)(R5006), 472-2026-086248, 458-2025-085639
WICHITA, KS

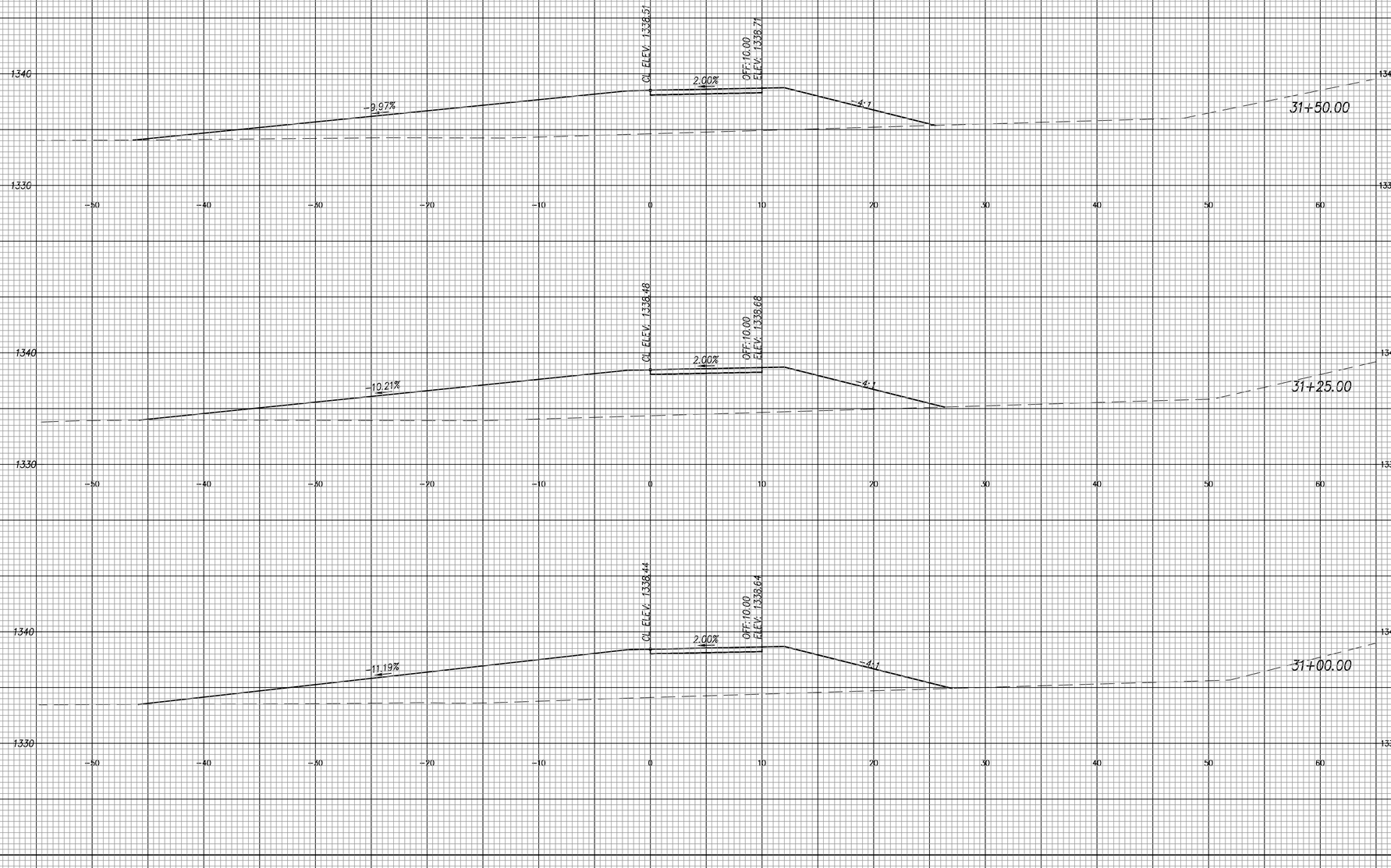
Cross Sections
Sta. 30+25.00 to Sta. 30+75.00

DATE: Feb. 2026
SHEET: 88 of 104
PROJ.: 16-1006

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STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	482-11068	2026	89	104

SCALE: 1"=5' HORIZ. & VERT.



NO.	DATE:	REVISION	BY:	APP'D

DRAWN BY: JMD

APP'D BY: DWH

CFS ENGINEERS

DANIEL W. HOLLOWAY — LICENSED — 15360 — 11-5-26 — KANSAS — PROFESSIONAL ENGINEER

ADAM PROHASKA — LICENSED — 31453 — 11-5-26 — KANSAS — PROFESSIONAL ENGINEER

CITY OF WICHITA

MULTI-USE TRAIL
CRYSTAL PRAIRIE LAKE PARK
PHASE I
482-11068 (R2000)(R5006), 472-2026-086248, 458-2025-085639
WICHITA, KS

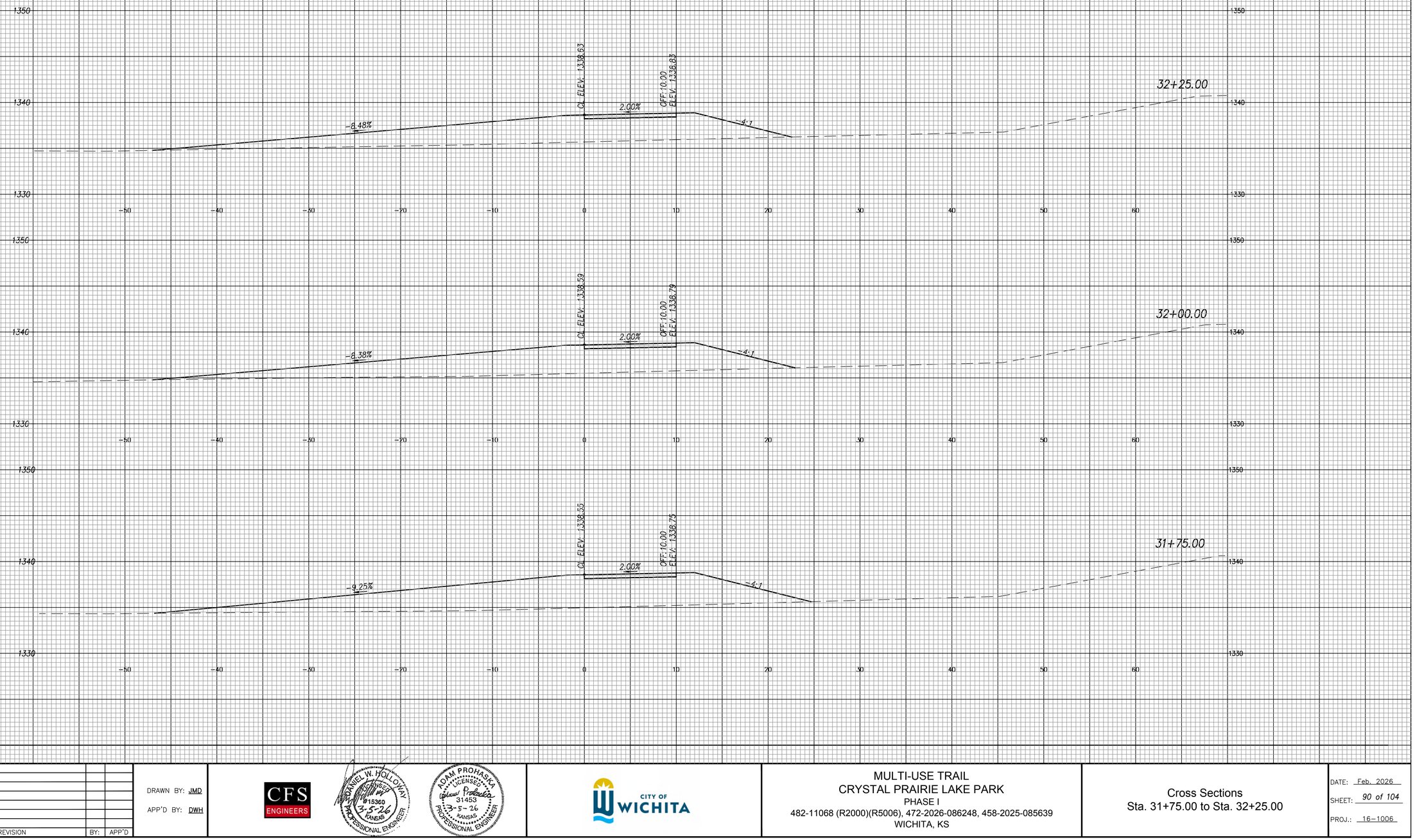
Cross Sections
Sta. 31+00.00 to Sta. 31+50.00

DATE: Feb. 2026
SHEET: 89 of 104
PROJ.: 16-1006

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STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	482-11068	2026	90	104

SCALE: 1"=5' HORIZ. & VERT.



NO.	DATE:	REVISION	BY:	APP'D

DRAWN BY: JMD

APP'D BY: DWH

CFS ENGINEERS

DANIEL W. HOLLOWAY — LICENSED — #15362 — 4-5-26 — KANSAS — PROFESSIONAL ENGINEER

ADAM PROHASKA — LICENSED — 31483 — 4-5-26 — KANSAS — PROFESSIONAL ENGINEER

CITY OF WICHITA

MULTI-USE TRAIL
CRYSTAL PRAIRIE LAKE PARK
PHASE I
482-11068 (R2000)(R5006), 472-2026-086248, 458-2025-085639
WICHITA, KS

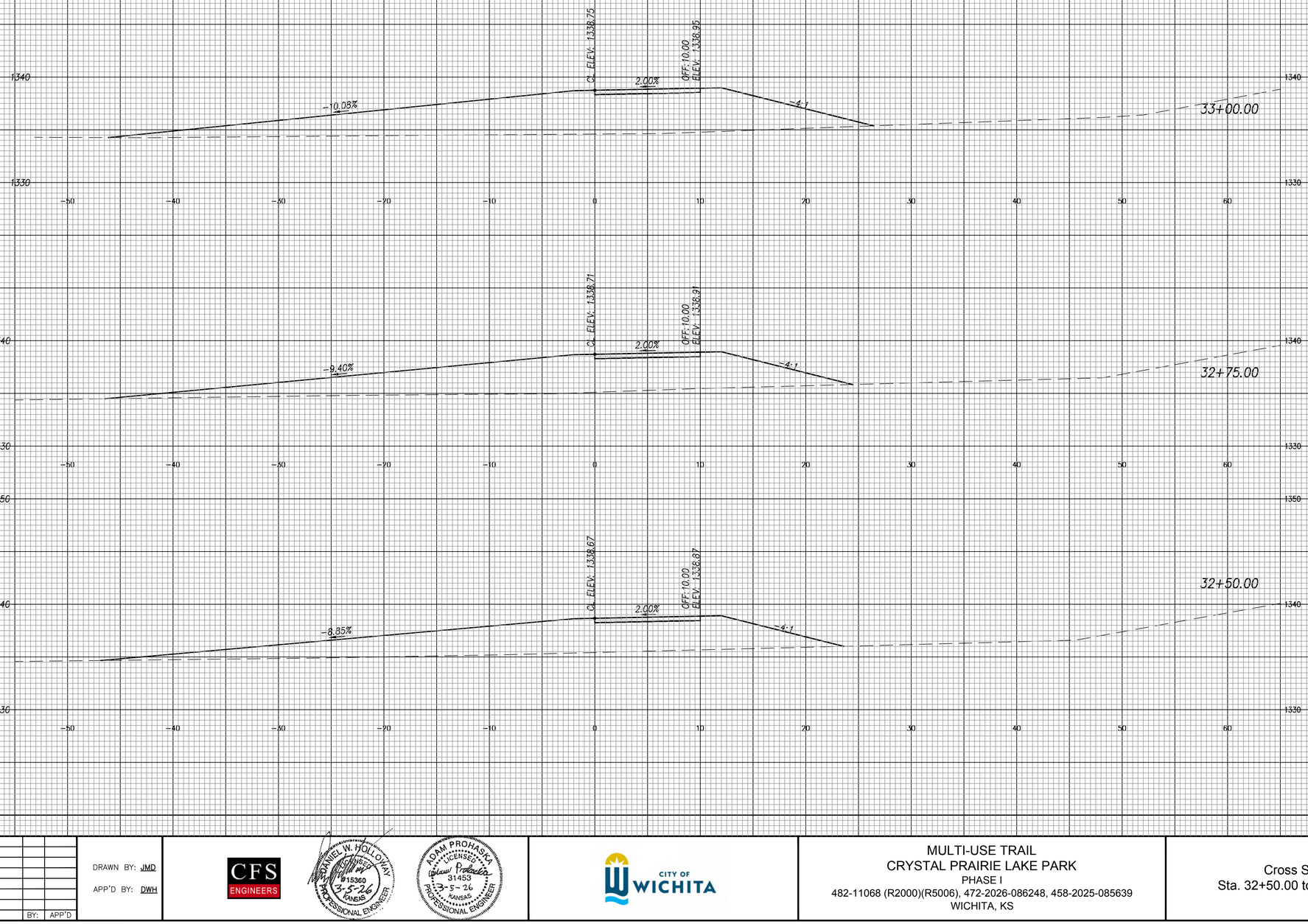
Cross Sections
Sta. 31+75.00 to Sta. 32+25.00

DATE: Feb. 2026
SHEET: 90 of 104
PROJ.: 16-1006

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STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	482–11068	2026	91	104

SCALE: 1"=5' HORIZ. & VERT.



J: \2016Proj\161006\2024 Trail\Ph 1\CADD\161006 Cross Sections.dwg 4/15/2026 - 1:26pm

NO.	DATE:	REVISION	BY:	APP'D

DRAWN BY: JMD

APP'D BY: DWH

CFS ENGINEERS

DANIEL W. HOLLOWAY — LICENSED — 15360 — 11-5-26 — KANSAS — PROFESSIONAL ENGINEER

ADAM PROHASKA — LICENSED — 31453 — 11-5-26 — KANSAS — PROFESSIONAL ENGINEER

CITY OF WICHITA

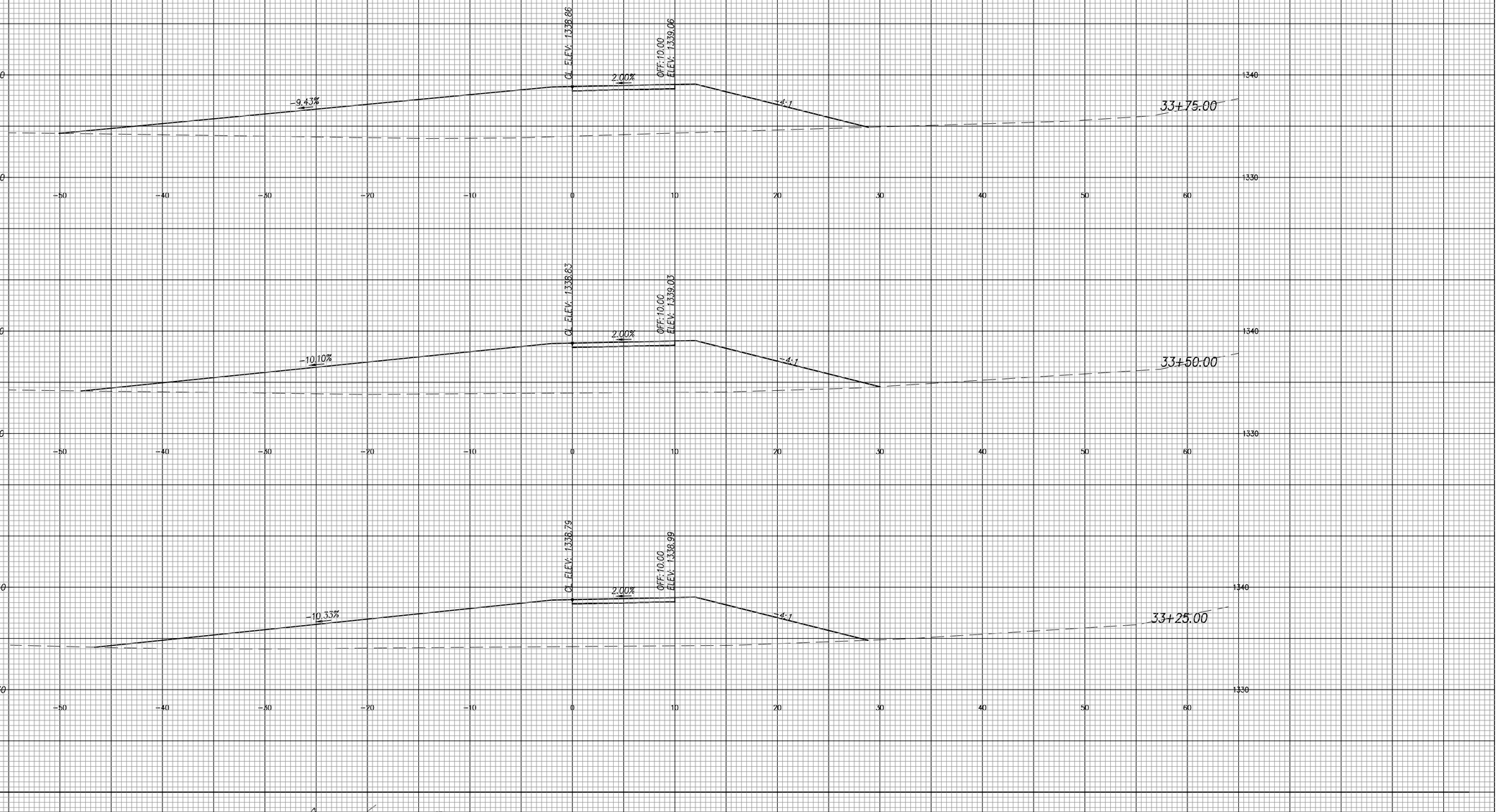
MULTI-USE TRAIL
CRYSTAL PRAIRIE LAKE PARK
PHASE I
482-11068 (R2000)(R5006), 472-2026-086248, 458-2025-085639
WICHITA, KS

Cross Sections
Sta. 32+50.00 to Sta. 33+00.00

DATE: Feb. 2026
SHEET: 91 of 104
PROJ.: 16–1006

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	482–11068	2026	92	104

SCALE: 1"=5' HORIZ. & VERT.



NO.	DATE:	REVISION	BY:	APP'D

DRAWN BY: JMD

APP'D BY: DWH

CFS ENGINEERS

DANIEL W. HOLLOWAY — 15360 — LICENSED PROFESSIONAL ENGINEER — KANSAS — 3-5-26

ADAM PROHASKA — LICENSED — 31453 — KANSAS PROFESSIONAL ENGINEER — 3-5-26

CITY OF WICHITA

MULTI-USE TRAIL
CRYSTAL PRAIRIE LAKE PARK
PHASE I
482-11068 (R2000)(R5006), 472-2026-086248, 458-2025-085639
WICHITA, KS

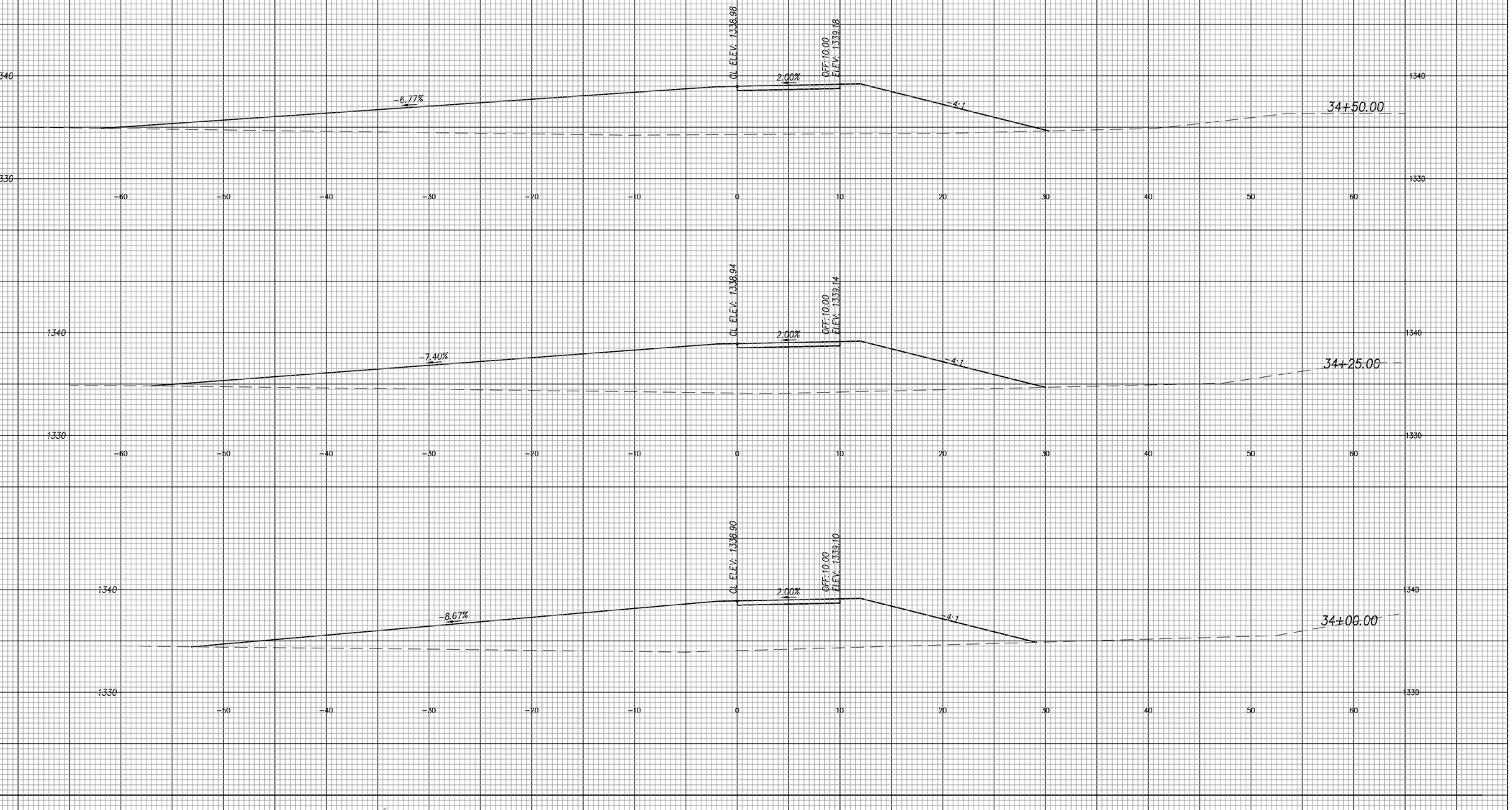
Cross Sections
Sta. 33+25.00 to Sta. 33+75.00

DATE: Feb. 2026
SHEET: 92 of 104
PROJ.: 16–1006

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STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	482-11068	2026	93	104

SCALE: 1"=5' HORIZ. & VERT.



NO.	DATE:	REVISION	BY:	APP'D

DRAWN BY: JMD

APP'D BY: DWH

CFS ENGINEERS

DANIEL W. HOLLOWAY — LICENSED — 15360 — 11-5-26 — KANSAS — PROFESSIONAL ENGINEER

ADAM PROHASKA — LICENSED — 31453 — 11-5-26 — KANSAS — PROFESSIONAL ENGINEER

CITY OF WICHITA

MULTI-USE TRAIL
CRYSTAL PRAIRIE LAKE PARK
PHASE I
482-11068 (R2000)(R5006), 472-2026-086248, 458-2025-085639
WICHITA, KS

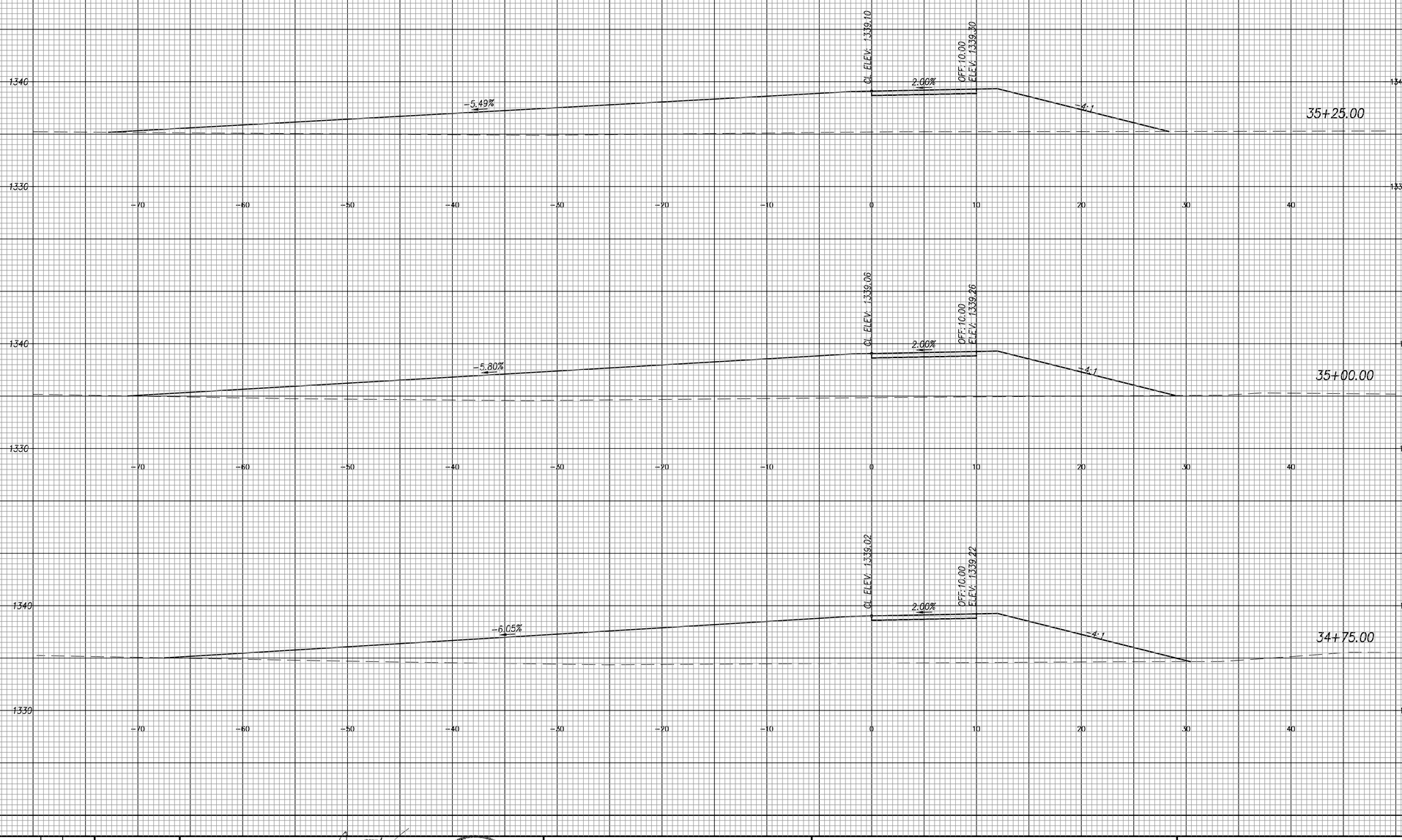
Cross Sections
Sta. 34+00.00 to Sta. 34+50.00

DATE: Feb. 2026
SHEET: 93 of 104
PROJ.: 16-1006

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STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	482-11068	2026	94	104

SCALE: 1"=5' HORIZ. & VERT.



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NO.	DATE:	REVISION	BY:	APP'D

DRAWN BY: JMD

APP'D BY: DWH

CFS ENGINEERS

DANIEL W. HOLLOWAY — LICENSED — #15362 — 4-5-26 — KANSAS — PROFESSIONAL ENGINEER

ADAM PROHASKA — LICENSED — 31483 — 4-5-26 — KANSAS — PROFESSIONAL ENGINEER

CITY OF WICHITA

MULTI-USE TRAIL
CRYSTAL PRAIRIE LAKE PARK
PHASE I
482-11068 (R2000)(R5006), 472-2026-086248, 458-2025-085639
WICHITA, KS

Cross Sections
Sta. 34+75.00 to Sta. 35+25.00

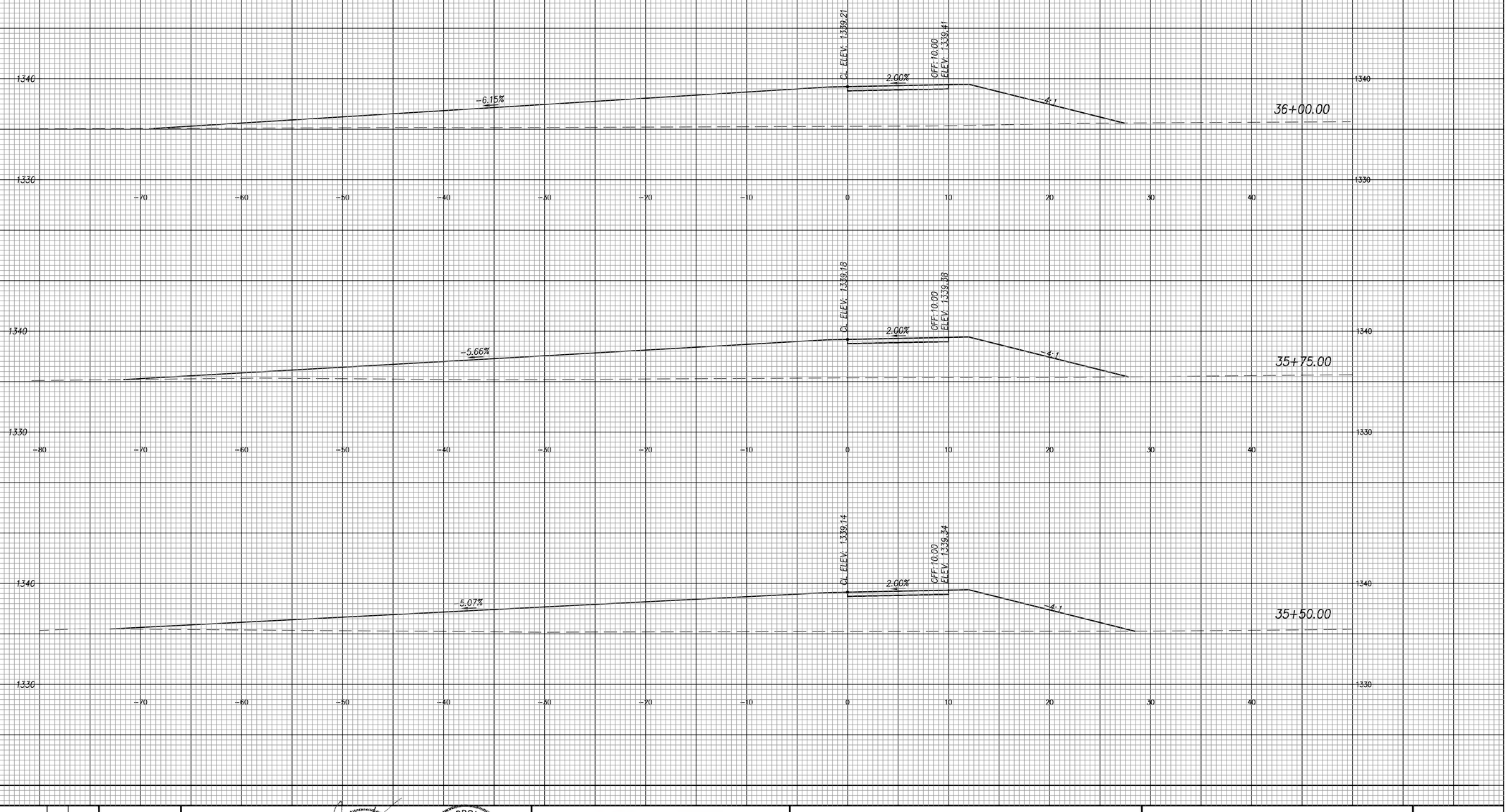
DATE: Feb. 2026

SHEET: 94 of 104

PROJ.: 16-1006

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	482-11068	2026	95	104

SCALE: 1"=5' HORIZ. & VERT.



NO.	DATE:	REVISION	BY:	APP'D

DRAWN BY: JMD

APP'D BY: DWH

CFS ENGINEERS

DANIEL W. HOLLOWAY — LICENSED — #15362 — 5-5-26 — KANSAS — PROFESSIONAL ENGINEER

ADAM PROHASKA — LICENSED — 31483 — 5-5-26 — KANSAS — PROFESSIONAL ENGINEER

CITY OF WICHITA

MULTI-USE TRAIL
CRYSTAL PRAIRIE LAKE PARK
PHASE I
482-11068 (R2000)(R5006), 472-2026-086248, 458-2025-085639
WICHITA, KS

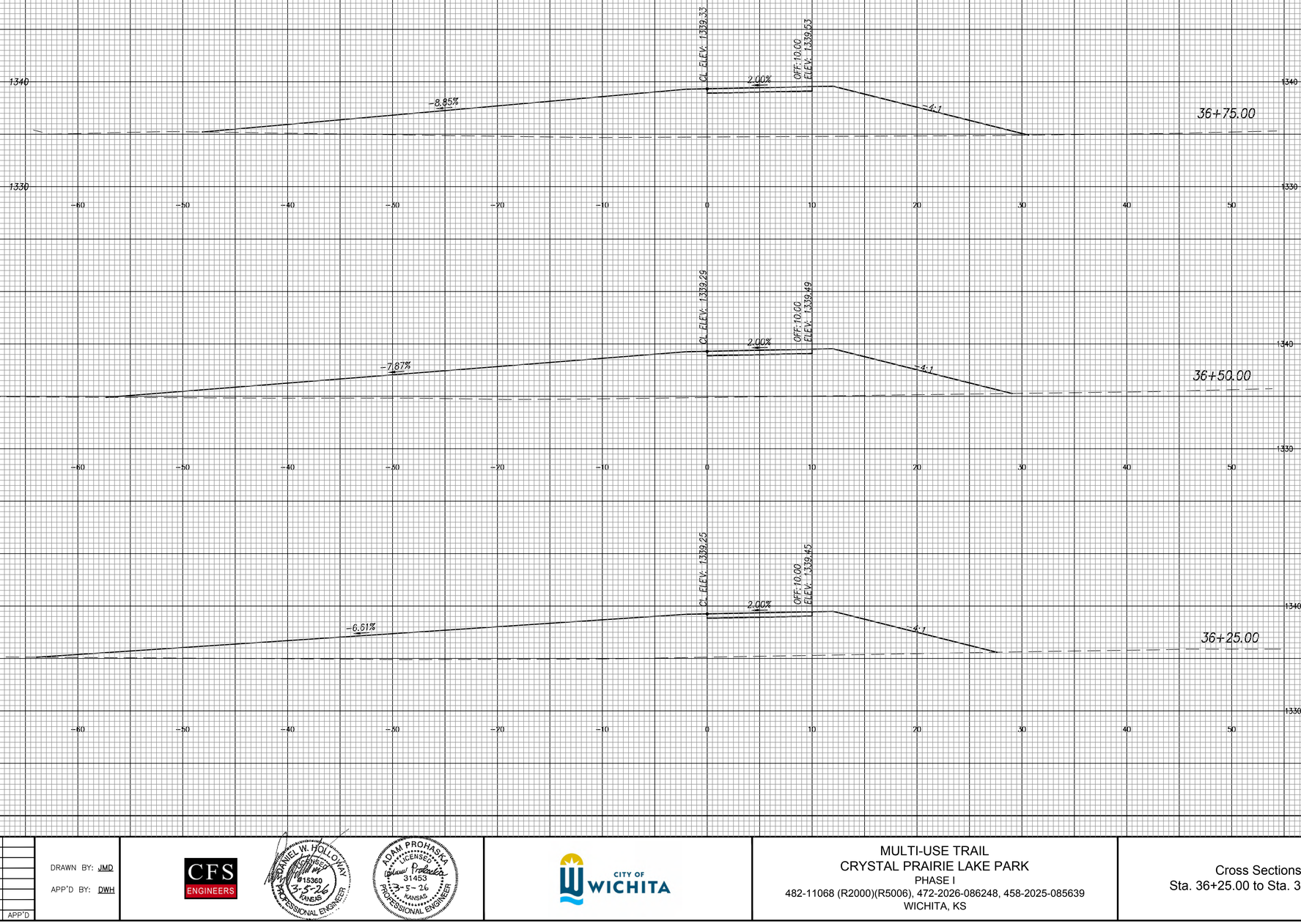
Cross Sections
Sta. 35+50.00 to Sta. 36+00.00

DATE: Feb. 2026
SHEET: 95 of 104
PROJ.: 16-1006

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STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	482-11068	2026	96	104

SCALE: 1"=5' HORIZ. & VERT.



NO.	DATE:	REVISION	BY:	APP'D

DRAWN BY: JMD

APP'D BY: DWH

CFS ENGINEERS

DANIEL W. HOLLOWAY — 15369 — KANSAS — PROFESSIONAL ENGINEER — 5-5-26

ADAM PROHASKA — LICENSED — 31483 — KANSAS — PROFESSIONAL ENGINEER — 5-5-26

CITY OF WICHITA

MULTI-USE TRAIL
CRYSTAL PRAIRIE LAKE PARK
PHASE I
482-11068 (R2000)(R5006), 472-2026-086248, 458-2025-085639
WICHITA, KS

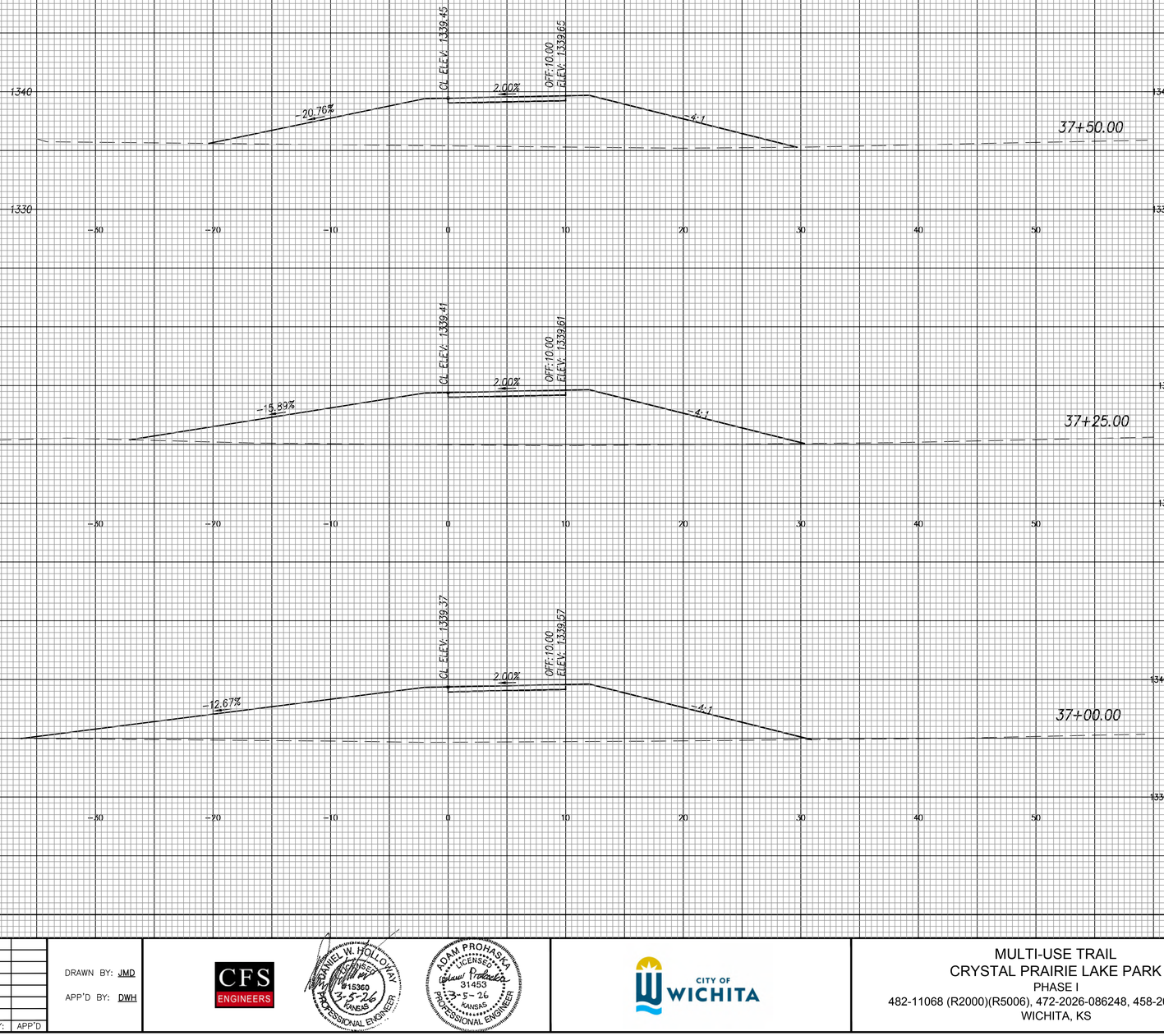
Cross Sections
Sta. 36+25.00 to Sta. 36+75.00

DATE: Feb. 2026
SHEET: 96 of 104
PROJ.: 16-1006

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STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	482-11068	2026	97	104

SCALE: 1"=5' HORIZ. & VERT.



NO.	DATE:	REVISION	BY:	APP'D

DRAWN BY: JMD

APP'D BY: DWH

CFS ENGINEERS

DANIEL W. HOLLOWAY — LICENSED — #15362 — 11-5-26 — KANSAS — PROFESSIONAL ENGINEER

ADAM PROHASKA — LICENSED — 31483 — 11-5-26 — KANSAS — PROFESSIONAL ENGINEER

CITY OF WICHITA

MULTI-USE TRAIL
CRYSTAL PRAIRIE LAKE PARK
PHASE I
482-11068 (R2000)(R5006), 472-2026-086248, 458-2025-085639
WICHITA, KS

Cross Sections
Sta. 37+00.00 to Sta. 37+50.00

DATE: Feb. 2026
SHEET: 97 of 104
PROJ.: 16-1006

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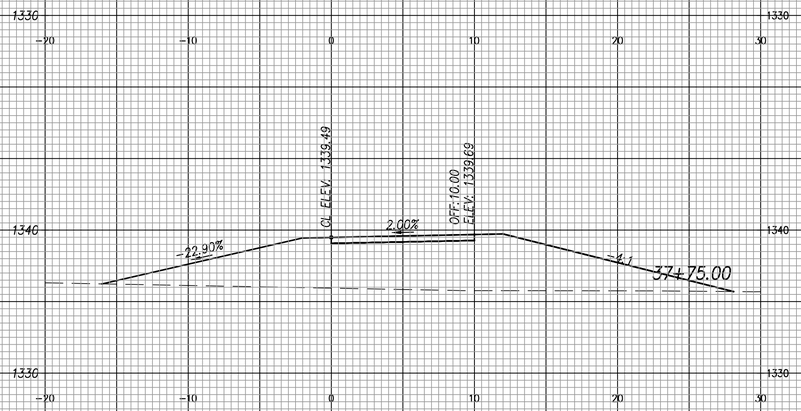
STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	482-11068	2026	98	104

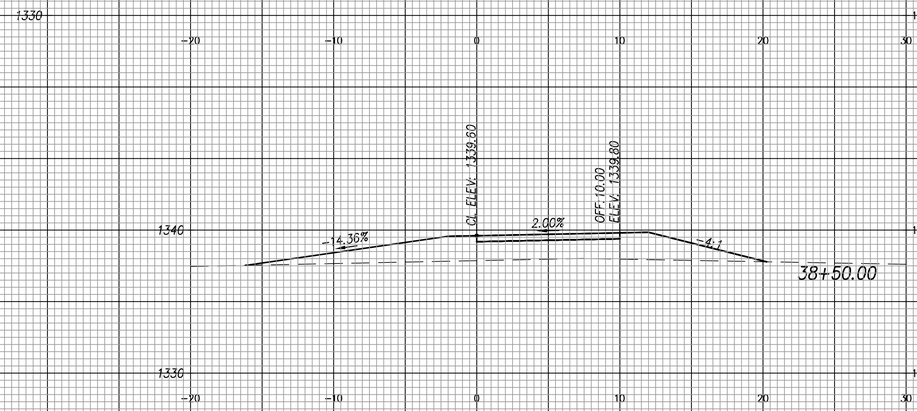
SCALE: 1"=5' HORIZ. & VERT.











NO.	DATE:	REVISION	BY:	APP'D

DRAWN BY: JMD

APP'D BY: DWH

CFS ENGINEERS

DANIEL W. HOLLOWAY — LICENSED — #15362 — 4-5-26 — KANSAS — PROFESSIONAL ENGINEER

ADAM PROHASKA — LICENSED — 31483 — 4-5-26 — KANSAS — PROFESSIONAL ENGINEER

CITY OF WICHITA

MULTI-USE TRAIL
CRYSTAL PRAIRIE LAKE PARK
PHASE I
482-11068 (R2000)(R5006), 472-2026-086248, 458-2025-085639
WICHITA, KS

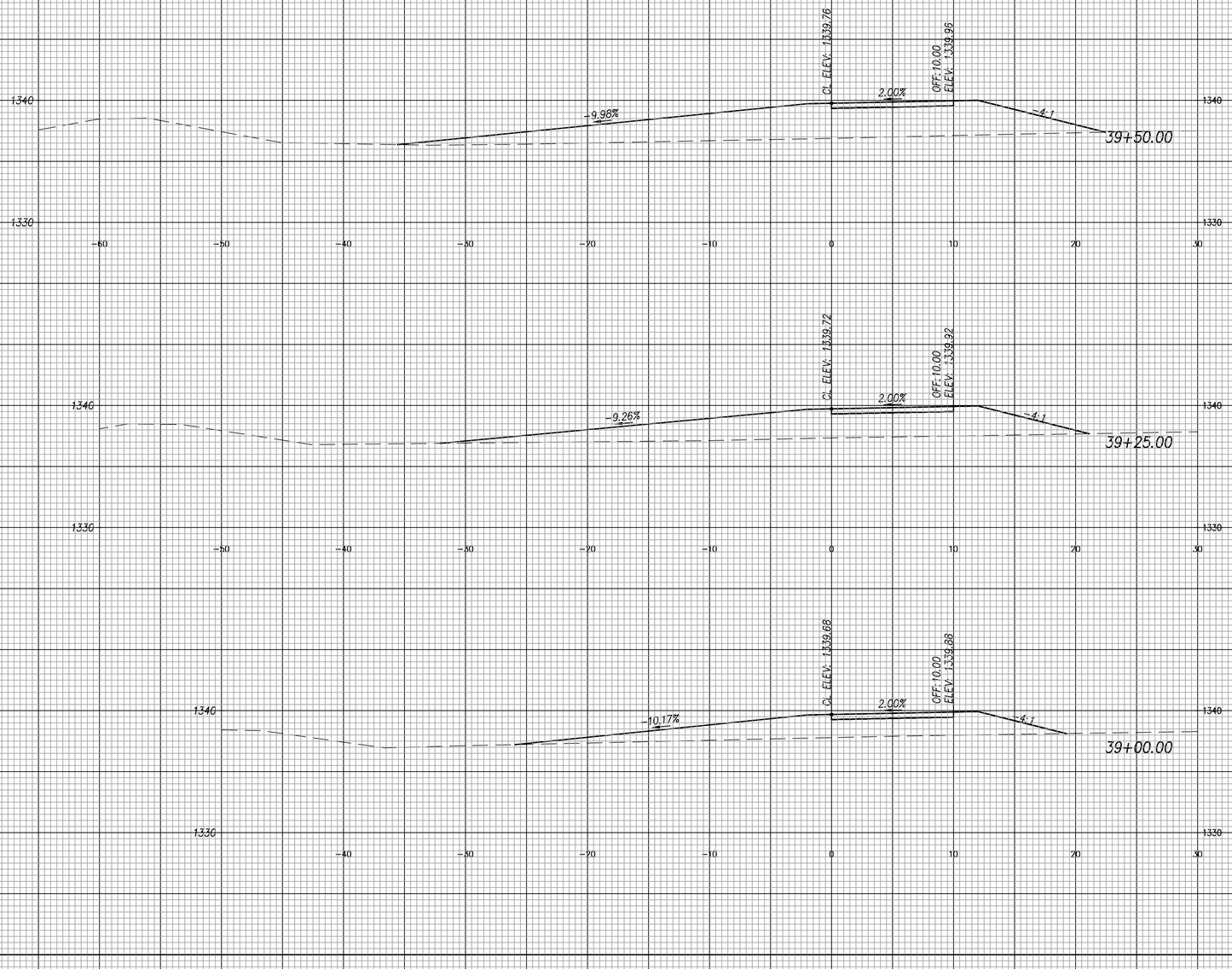
Cross Sections
Sta. 37+75.00 to Sta. 38+75.00

DATE: Feb. 2026
SHEET: 98 of 104
PROJ.: 16-1006

J:\2016Proj\161006\2024 Trail\Ph 1\CADD\161006 Cross Sections.dwg 4/15/2026 - 1:26pm

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	482–11068	2026	99	104

SCALE: 1"=5' HORIZ. & VERT.



NO.	DATE:	REVISION	BY:	APP'D

DRAWN BY: JMD

APP'D BY: DWH

CFS ENGINEERS

DANIEL W. HOLLOWAY — #15369 — 11-5-26 — KANSAS — PROFESSIONAL ENGINEER

ADAM PROHASKA — LICENSED — 31483 — 11-5-26 — KANSAS — PROFESSIONAL ENGINEER

CITY OF WICHITA

MULTI-USE TRAIL
CRYSTAL PRAIRIE LAKE PARK
PHASE I
482-11068 (R2000)(R5006), 472-2026-086248, 458-2025-085639
WICHITA, KS

Cross Sections
Sta. 39+00.00 to Sta. 39+50.00

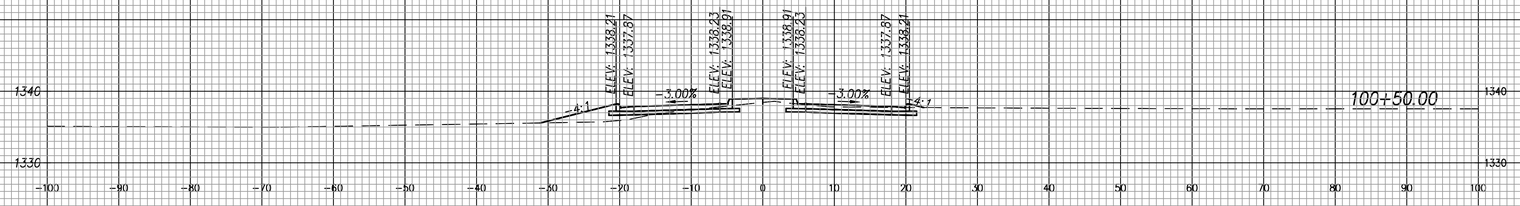
DATE: Feb. 2026
SHEET: 99 of 104
PROJ.: 16–1006

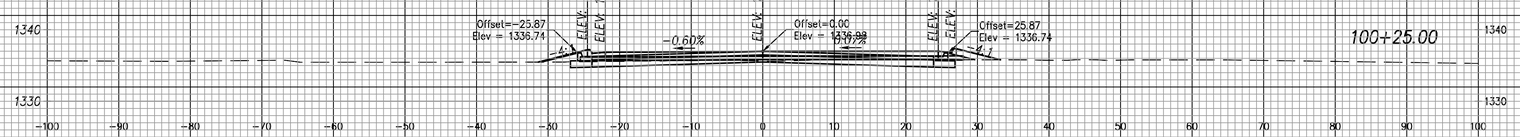
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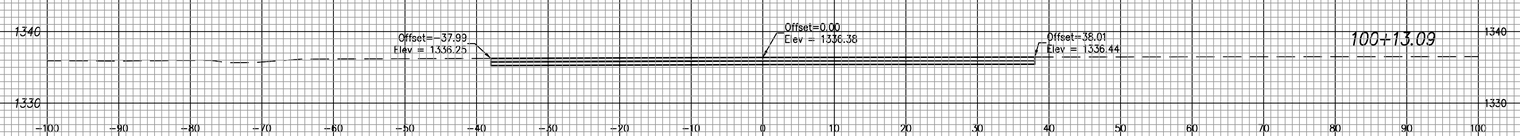
STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	482–11068	2026	100	104

SCALE: 1"=5' HORIZ. & VERT.









NO.	DATE:	REVISION	BY:	APP'D

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CFS ENGINEERS

DANIEL W. HOLLOWAY — LICENSED — 15369 — 4-5-26 — KANSAS — PROFESSIONAL ENGINEER

ADAM PROHASKA — LICENSED — 31459 — 4-5-26 — KANSAS — PROFESSIONAL ENGINEER

CITY OF WICHITA

MULTI-USE TRAIL
CRYSTAL PRAIRIE LAKE PARK
PHASE I
482-11068 (R2000)(R5006), 472-2026-086248, 458-2025-085639
WICHITA, KS

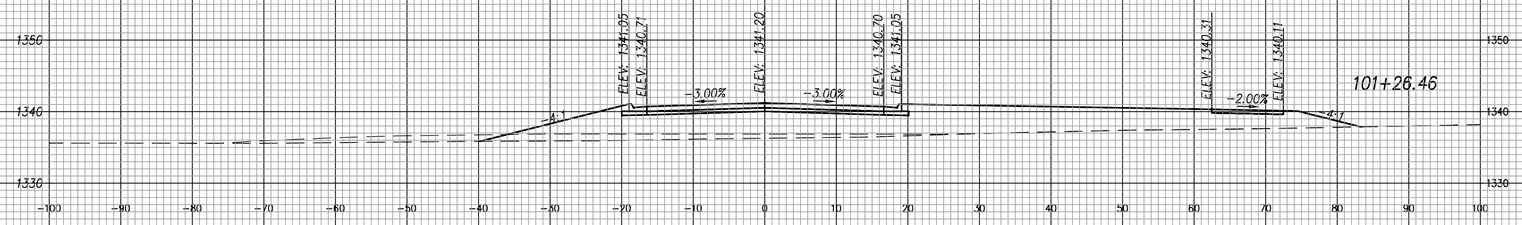
Cross Sections
Sta. 100+13.09 to Sta. 100+75.00

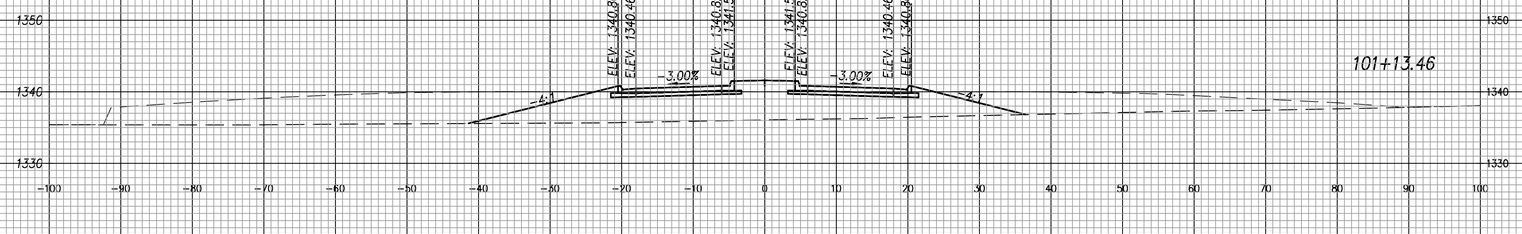
DATE: Feb. 2026
SHEET: 100 of 104
PROJ.: 16–1006

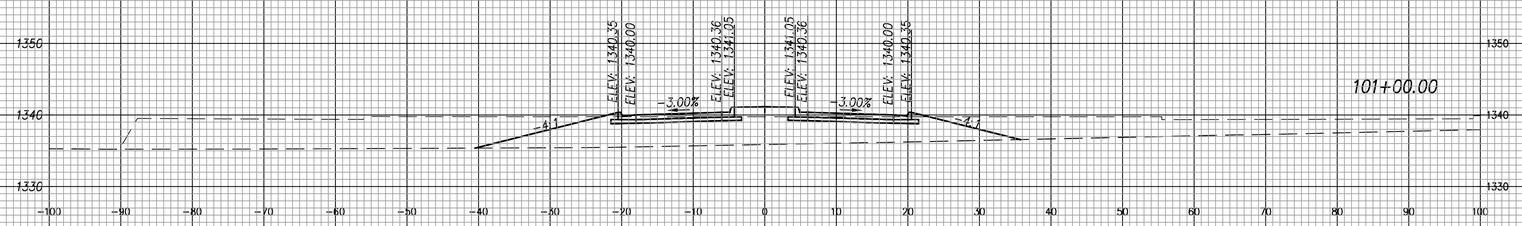
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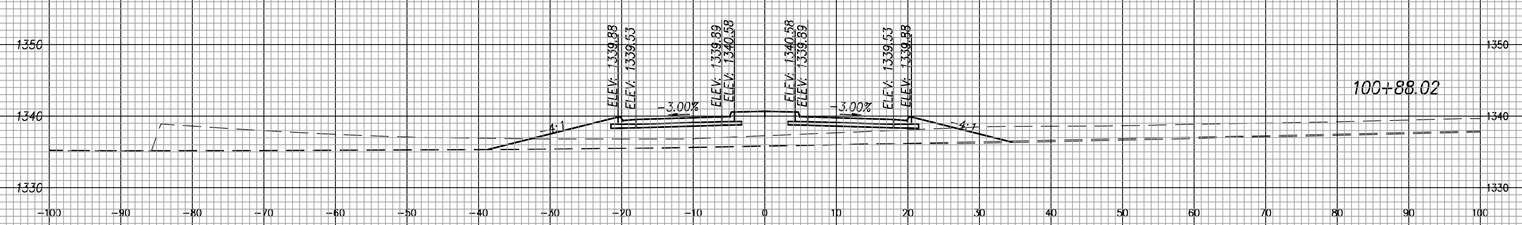
STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	482–11068	2026	101	104

SCALE: 1"=5' HORIZ. & VERT.









NO.	DATE:	REVISION	BY:	APP'D

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APP'D BY: DWH

CFS ENGINEERS

DANIEL W. HOLLOWAY — LICENSED — 15369 — 4-5-26 — KANSAS — PROFESSIONAL ENGINEER

ADAM PROHASKA — LICENSED — 31453 — 4-5-26 — KANSAS — PROFESSIONAL ENGINEER

CITY OF WICHITA

MULTI-USE TRAIL
CRYSTAL PRAIRIE LAKE PARK
PHASE I
482-11068 (R2000)(R5006), 472-2026-086248, 458-2025-085639
WICHITA, KS

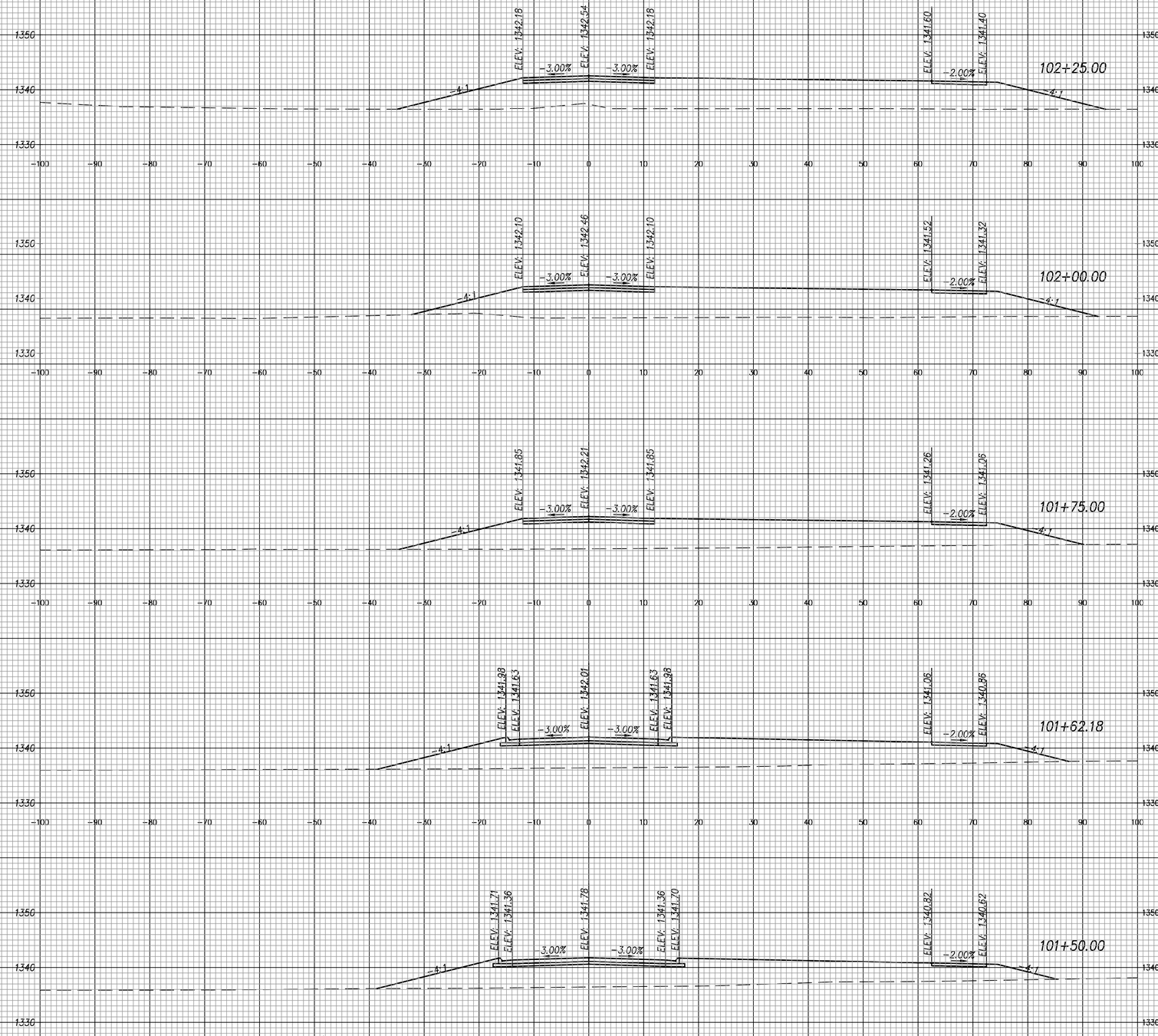
Cross Sections
Sta. 101+00.00 to Sta. 101+24.71

DATE: Feb. 2026
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PROJ.: 16–1006

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STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	482-11068	2026	102	104

SCALE: 1"=5' HORIZ. & VERT.



NO.	DATE:	REVISION	BY:	APP'D

DRAWN BY: JMD

APP'D BY: DWH

CFS ENGINEERS

DANIEL W. HOLLOWAY — LICENSED — #15369 — 4-5-26 — KANSAS — PROFESSIONAL ENGINEER

ADAM PROHASKA — LICENSED — 31483 — 4-5-26 — KANSAS — PROFESSIONAL ENGINEER

CITY OF WICHITA

MULTI-USE TRAIL
CRYSTAL PRAIRIE LAKE PARK
PHASE I
482-11068 (R2000)(R5006), 472-2026-086248, 458-2025-085639
WICHITA, KS

Cross Sections
Sta. 101+50.00 to Sta. 102+25.00

DATE: Feb. 2026
SHEET: 102 of 104
PROJ.: 16-1006

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STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	482-11068	2026	103	104

SCALE: 1"=5' HORIZ. & VERT.

NO.	DATE:	REVISION	BY:	APP'D

DRAWN BY: JMD

APP'D BY: DWH

CFS ENGINEERS

DANIEL W. HOLLOWAY — LICENSED — 15369 — 5-5-26 — KANSAS — PROFESSIONAL ENGINEER

ADAM PROHASKA — LICENSED — 31459 — 5-5-26 — KANSAS — PROFESSIONAL ENGINEER

CITY OF WICHITA

MULTI-USE TRAIL
CRYSTAL PRAIRIE LAKE PARK
PHASE I
482-11068 (R2000)(R5006), 472-2026-086248, 458-2025-085639
WICHITA, KS

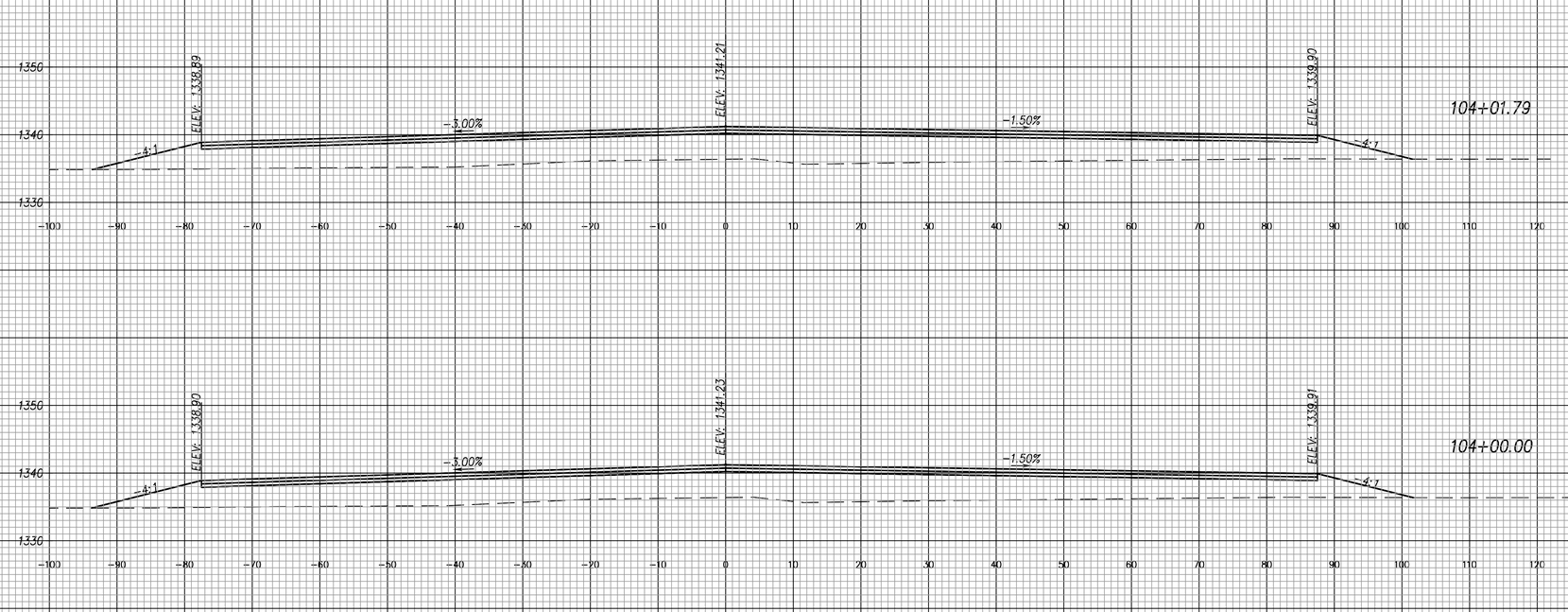
Cross Sections
Sta. 102+75.00 to Sta. 103+75.00

DATE: Feb. 2026
SHEET: 103 of 104
PROJ.: 16-1006

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STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	482–11068	2026	104	104

SCALE: 1"=5' HORIZ. & VERT.



NO.	DATE:	REVISION	BY:	APP'D

DRAWN BY: JMD

APP'D BY: DWH

CFS ENGINEERS

DANIEL W. HOLLOWAY — LICENSED — #15369 — 4-5-26 — KANSAS — PROFESSIONAL ENGINEER

ADAM PROHASKA — LICENSED — 31459 — 4-5-26 — KANSAS — PROFESSIONAL ENGINEER

CITY OF WICHITA

MULTI-USE TRAIL
CRYSTAL PRAIRIE LAKE PARK
PHASE I
482-11068 (R2000)(R5006), 472-2026-086248, 458-2025-085639
WICHITA, KS

Cross Sections
Sta. 104+00.00 to Sta. 104+01.79

DATE: Feb. 2026
SHEET: 104 of 104
PROJ.: 16–1006

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