

Title	<b>Birchwood Park</b>	11/21/2022
	by <b>Jim Holder</b> in <b>Member District ADA Project Request</b>	id. 33421275
	250 E Wood Street Palatine, Illinois 60067 United States 847-705-5131 ADAProjects@palatineparks.org	

## Original Submission 11/21/2022

Name	<b>James E Holder</b>
Job Title	<b>Superintendent of Parks &amp; Planning</b>
E-mail Address	<b>adaprojects@palatineparks.org</b>
Phone Number	<b>847-705-5131</b>
Park District	<b>Palatine</b>
Project Location	<b>Birchwood Park</b>
Project Status	<b>Alteration Maintenance</b>
Project Type	<b>Routes and Surfaces</b>
Routes and Surfaces- select a Project Category below:	<b>Accessible Routes- Means of Egress Curb Ramps Parking Spots Sidewalks Walking Surfaces</b>
Benefits of the Project	<b>Allows individuals with mobility issues to access the park and facility from the neighborhood. It also includes two additional handicapped parking areas to access the park site amenities.</b>
Items that will become ADA Compliant	<b>Access to park amenities</b>
The project is designed or constructed, or applies human resources, to comply with:	<b>The Illinois Accessibility Code The 2010 Standards for Accessible Design Agency's ADA Transition Plan</b>

Upload Project Related Files, Photos, Videos or Audio

[00\\_Birchwood\\_ADA\\_Calculations.pdf](#)

[01\\_ADA\\_portion\\_of\\_Project.pdf](#)

[02\\_Full\\_Plan\\_Set\\_6-23-2021.pdf](#)

[03\\_Birchwood\\_Drive\\_Final\\_Engineering.pdf](#)

[04\\_Merged\\_A-Lamp\\_Final\\_Payout.pdf](#)

[DJI\\_0110.JPG](#)

[DJI\\_0133.JPG](#)

[DJI\\_0136.JPG](#)

[DJI\\_0137.JPG](#)

[DJI\\_0138.JPG](#)

[DJI\\_0140.JPG](#)

---

Budget Table for ADA Related Expenses

[Budget Table.xlsx](#)

---

ADA Dollars Requested	<b>24938.4</b>
-----------------------	----------------

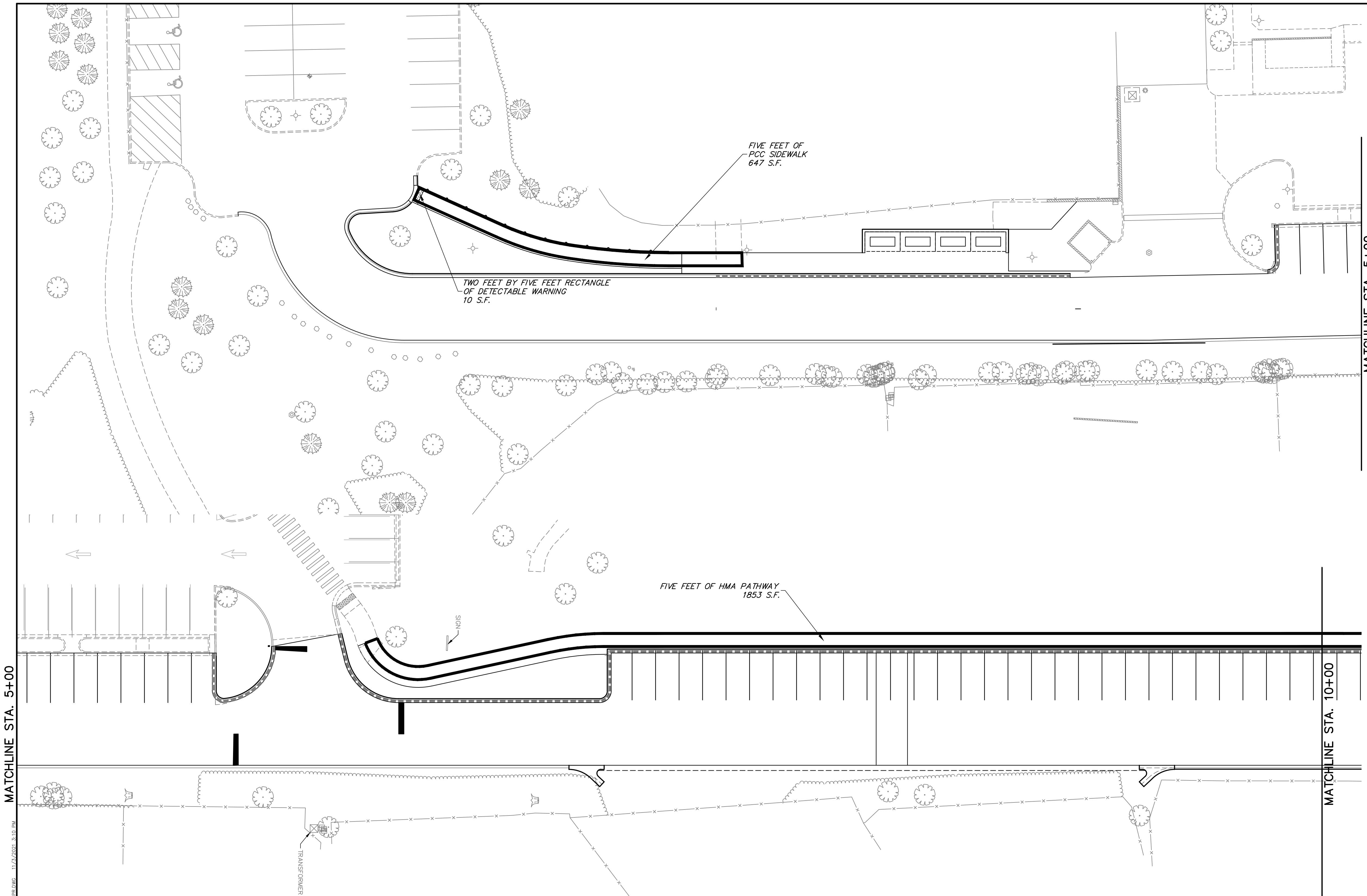
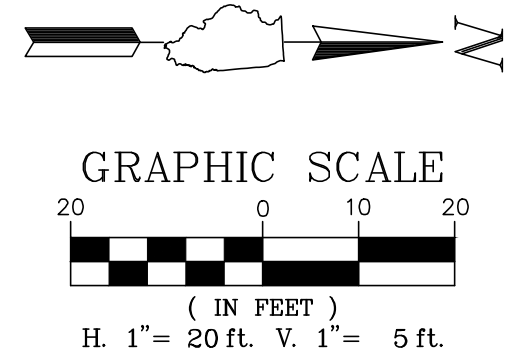
---

Notes related to requested amount	n/a
-----------------------------------	-----

---

# Birchwood Park Main Dive & ADA Improvements

<b>Engineer's Breakdown of ADA Quantities</b>	<b>Total</b>	<b>ADA %</b>	<b>ADA Total</b>
Geogrid Tencate TX 130 Triaxial	\$ 260.00	100%	\$ 260.00
Aggregate Subgrade Improvements 8 Inch	\$ 668.00	100%	\$ 668.00
HMA Surface Course N50 2 Inch	\$ 8,550.00	100%	\$ 8,550.00
HMA Binder Course, IL-19.0 N50 2 Inch	\$ 738.00	100%	\$ 738.00
Sidewalk, PCC, 5 Inch	\$ 4,592.40	100%	\$ 4,592.40
Detectable Warnings	\$ 750.00	100%	\$ 750.00
Curb, PCC Depressed	\$ 920.00	100%	\$ 920.00
Furnish and Install ADA Signs	\$ 1,050.00	100%	\$ 1,050.00
Engineering & Construction Management Fees	\$ 49,400.00	15%	\$ 7,410.00
<b>Total ADA Submission</b>			<b>\$ 24,938.40</b>



MATCHLINE STA. 5+00

MATCHLINE STA. 5+00

MATCHLINE STA. 10+00

© 2020 GHA 5241.212 BIRCHWOOD PARK IMPROVEMENTS ENGINEERING 5241.212 PR DWG - 11/2/2021 3:10 PM

**GHA GEWALT HAMILTON ASSOCIATES, INC.**  
625 Forest Edge Drive ■ Vernon Hills, IL. 60061  
TEL 847.478.9700 ■ FAX 847.478.9701

**COPYRIGHT NOTICE**  
This drawing is the property of Gewalt-Hamilton Assoc., Inc. and is not to be used for any purpose other than the specific project and site named herein, and cannot be reproduced in any manner without the express written permission from Gewalt-Hamilton Associates, Inc.

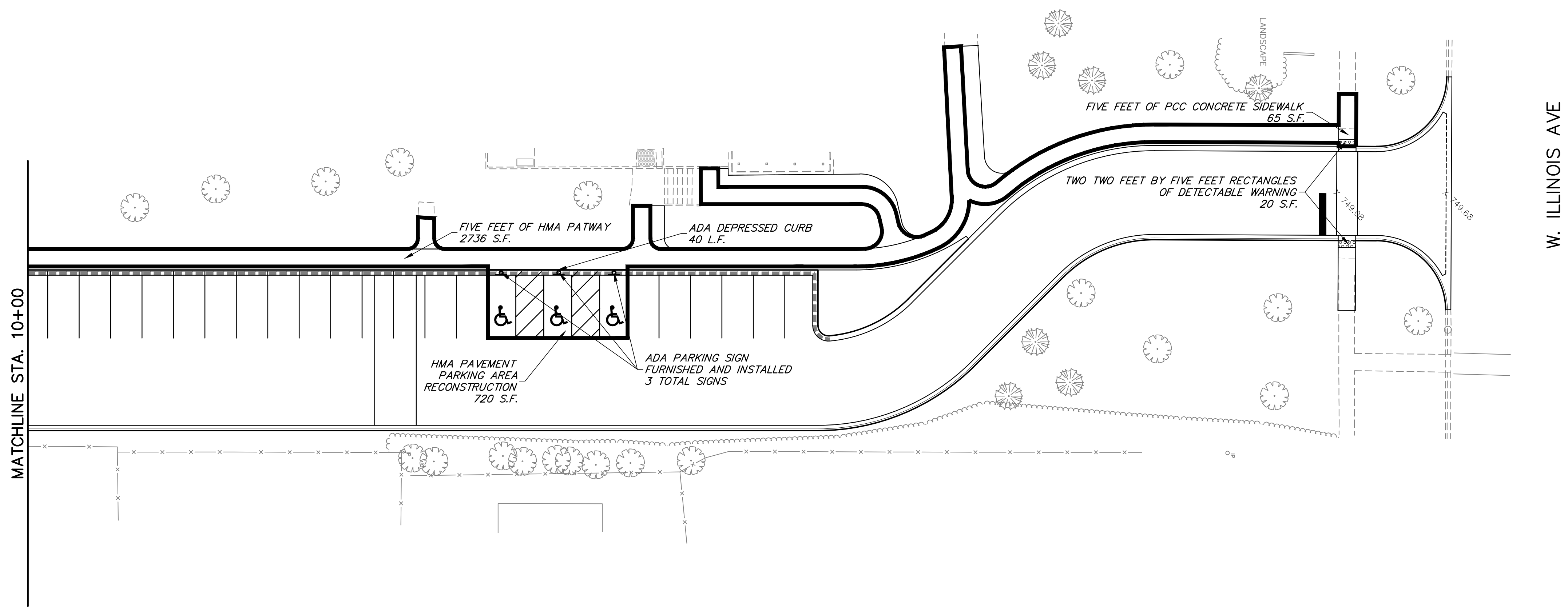
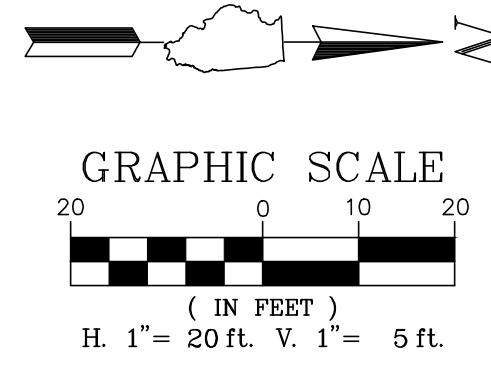
**ADA ROUTES AND QUANTITY CALLOUTS**  
**BIRCHWOOD PARK IMPROVEMENTS**  
**PALATINE PARK DISTRICT**  
**435 W. ILLINOIS AVENUE, PALATINE, ILLINOIS**

NO.	BY	DATE	REVISION	NO.	BY	DATE	REVISION

FILE: 5241.212 PR.dwg	GHA PROJECT #
DRAWN BY: GHA	5241.212
DATE: 11.02.21	
CHECKED BY: TAR	SCALE:
DATE: 11.02.21	AS NOTED

SHEET NUMBER:  
**26**  
OF 27 SHEETS





**ADA QUANTITIES AND PRICING LIST**  
 Project Name: BIRCHWOOD PARK 2021 PARK IMPROVEMENT  
 Client: PALATINE PARK DISTRICT  
 GHA Project #: 5241.212  
 Prepared By: John Bradley  
 Date: November 2, 2021

**GHA GEWALT HAMILTON ASSOCIATES, INC.**  
 CONSULTING ENGINEERS  
 625 Forest Edge Drive, Vernon Hills, IL 60061  
 TEL 847.478.9700 ■ FAX 847.478.9701  
 www.gha-engineers.com

ITEM	DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	COST
11	GEOGRID, TENCATE TX 130 TRIAXIAL	SY	80	\$ 3.25	\$ 260.00
12	AGGREGATE SUBGRADE IMPROVEMENT, 8 INCH	SY	80	\$ 8.35	\$ 668.00
17	HMA SURFACE COURSE, N50, 2 INCH	TON	95	\$ 90.00	\$ 8,550.00
18	HMA BINDER COURSE, IL-19.0, N50 2 INCH	TON	9	\$ 82.00	\$ 738.00
19	SIDEWALK, PCC, 5 INCH	SF	712	\$ 6.45	\$ 4,592.40
20	DETECTABLE WARNINGS	SF	30	\$ 25.00	\$ 750.00
28	CURB, PCC, DEPRESSED (REG & ADA)	LF	40	\$ 23.00	\$ 920.00
41	FURNISH AND INSTALL SIGNS	EACH	3	\$ 350.00	\$ 1,050.00
				<b>SUB-TOTAL:</b>	<b>\$ 17,528.40</b>

G:\5200\5241.212 Birchwood Park\2020 Improvements\Sent Out\ADA QUANTITIES AND PRICING\2021-11-2 ADA Quantities and Prices.xlsx]Sheet 1

G:\5200\5241.212 Birchwood Park\2020 Improvements\ENGINEERING\5241.212 PR.DWG - 11/2/2021 3:10 PM

**GHA GEWALT HAMILTON ASSOCIATES, INC.**  
 625 Forest Edge Drive ■ Vernon Hills, IL. 60061  
 TEL 847.478.9700 ■ FAX 847.478.9701

COPYRIGHT NOTICE  
 This drawing is the property of Gewalt-Hamilton Assoc., Inc. and is not to be used for any purpose other than the specific project and site named herein, and cannot be reproduced in any manner without the express written permission from Gewalt-Hamilton Associates, Inc.

**ADA ROUTES AND QUANTITY CALLOUTS**  
**BIRCHWOOD PARK IMPROVEMENTS**  
**PALATINE PARK DISTRICT**  
**435 W. ILLINOIS AVENUE, PALATINE, ILLINOIS**

NO.	BY	DATE	REVISION

FILE: 5241.212 PR.dwg  
 DRAWN BY: GHA  
 DATE: 11.02.21  
 GHA PROJECT #  
 5241.212  
 CHECKED BY: TAR  
 DATE: 11.02.21  
 SCALE:  
 AS NOTED

SHEET NUMBER:  
**27**  
 OF 27 SHEETS

# PROPOSED SITE IMPROVEMENTS

# BIRCHWOOD PARK IMPROVEMENTS

# PALATINE PARK DISTRICT

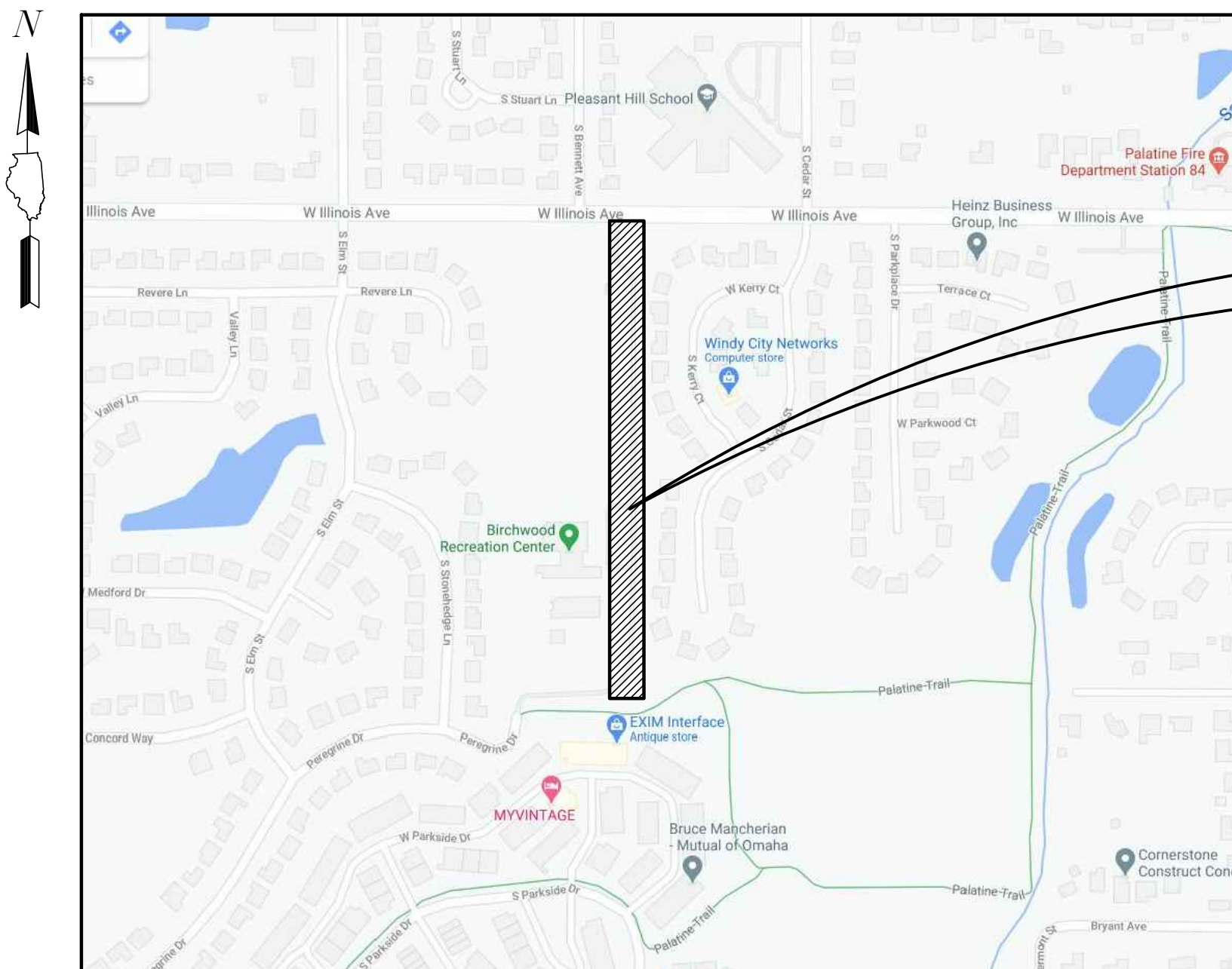
## 435 W. ILLINOIS AVENUE PALATINE, ILLINOIS

### STANDARD SYMBOLS

FEATURE	EXISTING	PROPOSED
BUFFALO BOX		
BUSH/SHRUB		
CATCH BASIN		
CLEANOUT		
COMBINE SEWER LINE		
CONTOUR		
CULVERT		
DITCH/SWALE		
ELECTRIC LINE		
ELECTRIC MANHOLE		
FENCE		
FIRE HYDRANT		
FLARED END SECTION		
GAS LINE		
GAS MANHOLE		
GAS VALVE		
INLET		
LIGHT POLE		
OVERHEAD WIRES		
POWER POLE		
R.O.W LINE		
R.O.W MARKER		
SANITARY FORCEMAIN LINE		
SANITARY SEWER LINE		
SANITARY SEWER MANHOLE		
SIGN		
SPOT ELEVATION		
STORM SEWER LINE		
STORM SEWER MANHOLE		
TELEPHONE LINE		
TELEPHONE MANHOLE		
TELEPHONE BOX/PEDESTAL		
TREE--CONIFEROUS (SIZE/TAG#)		
TREE--DECIDUOUS (SIZE/TAG#)		
VALVE BOX		
VALVE VAULT		
WATER VALVE		
WATERMAIN LINE		

### SHEET INDEX

1. TITLE SHEET
- 2.-3. TYPICAL SECTIONS
- 4.-5. EXISTING CONDITIONS/DEMOLITION PLAN
- 6.-8. PLAN AND PROFILE
- 9.-11. GRADING AND UTILITY PLAN
- 12.-13. GRADING ENLARGEMENT DETAILS
- 14.-15. SOIL EROSION AND SEDIMENT CONTROL PLAN
16. SOIL EROSION AND SEDIMENT CONTROL DETAILS
17. GENERAL NOTES
18. MWRD NOTES
- 19.-23. CROSS SECTIONS
- 24.-25. DETAILS



**PROJECT LOCATION**  
435 W. ILLINOIS AVE  
PALATINE, IL

### TOPOGRAPHIC SURVEY BY:

GEWALT HAMILTON ASSOCIATES, INC.  
625 FOREST EDGE DRIVE  
VERNON HILLS, ILLINOIS 60061  
TELEPHONE: 847-478-9700

### PLANS PREPARED FOR:

PALATINE PARK DISTRICT  
250 EAST WOOD STREET  
PALATINE, ILLINOIS 60067  
TELEPHONE: 847-991-0333

### COORDINATING/PERMITTING AGENCIES:

VILLAGE OF PALATINE  
200 EAST WOOD STREET  
PALATINE, ILLINOIS 60067  
TELEPHONE: 847-202-6963

METROPOLITAN WATER RECLAMATION DISTRICT  
OF GREATER CHICAGO (MWRDGC)  
111 EAST ERIE STREET  
CHICAGO, ILLINOIS 60611  
TELEPHONE: 312-751-5600

ILLINOIS DEPARTMENT OF NATURAL RESOURCES  
OFFICE OF WATER RESOURCES  
2050 WEST STEARNS ROAD  
BARTLETT, ILLINOIS 60103  
TELEPHONE: 847-608-3100

### PROFESSIONAL DESIGN FIRM LICENSE:

GEWALT HAMILTON ASSOCIATES, INC.  
DESIGN FIRM - LAND SURVEYOR/PROF ENG  
LICENSE NUMBER: 184.000922-0010  
EXPIRES: 4/30/2021

### LOCATION MAP

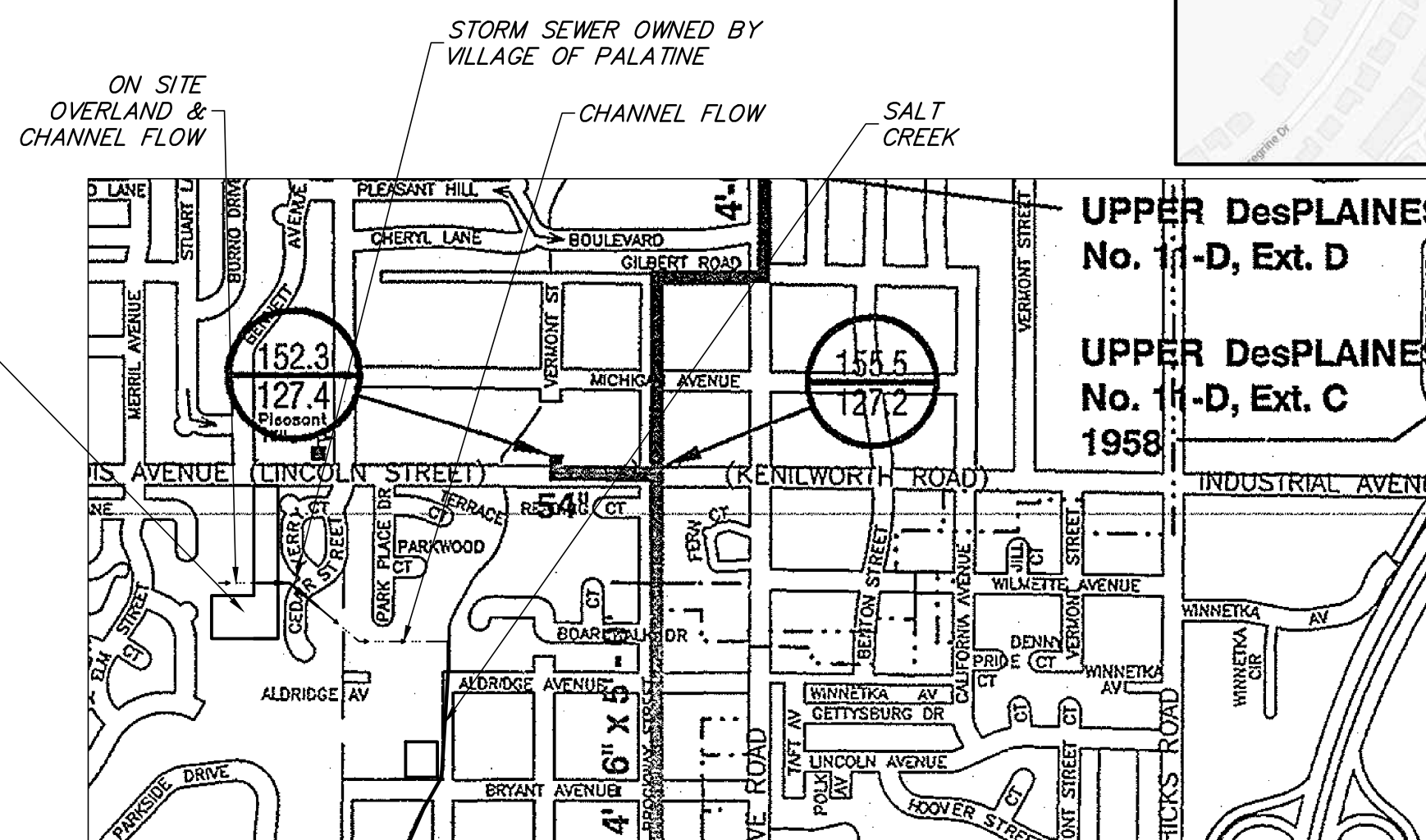
(Not to Scale)

### BENCHMARK:

ELEVATIONS SHOWN HEREON ARE OBTAINED VIA GPS USING  
TRIMBLE VRS@NOW™ (NO PUBLISHED MONUMENT VERIFIED)  
DATUM: NAVD88

### CONTROL POINTS:

Point #	Northing	Easting	Elevation	Description
1	1977470.19	1059695.26	746.33	CP1-MN
2	1976892.82	1059715.40	736.30	CP2-MN
3	1977694.11	1059682.52	751.32	CP3-XSW
4	1976601.13	1059717.30	740.81	CP4-MN
5	1976325.87	1059727.95	747.80	CP5-XTC
9	1976817.37	1059463.99	739.58	CP9-MN
10	1976260.95	1059754.75	742.65	CP10-MN
11	1976686.49	1059441.16	744.50	CP11-MN
12	1976248.27	1059428.69	754.83	CP12-MN



### MWRD ROUTING MAP

(1"=1000')

### TITLE SHEET

**BIRCHWOOD PARK IMPROVEMENTS**  
**PALATINE PARK DISTRICT**  
**435 W. ILLINOIS AVENUE, PALATINE, ILLINOIS**

NO.	BY	DATE	REVISION	NO.	BY	DATE	REVISION

FILE	SHEET NUMBER:
DRAWN BY: GHA DATE: 05.04.21	1
GHA PROJECT # 5241.212	OF 25 SHEETS
CHECKED BY: TAR DATE: 05.04.21	SCALE: N.A.

**ISSUED FOR BID 7-1-2021**

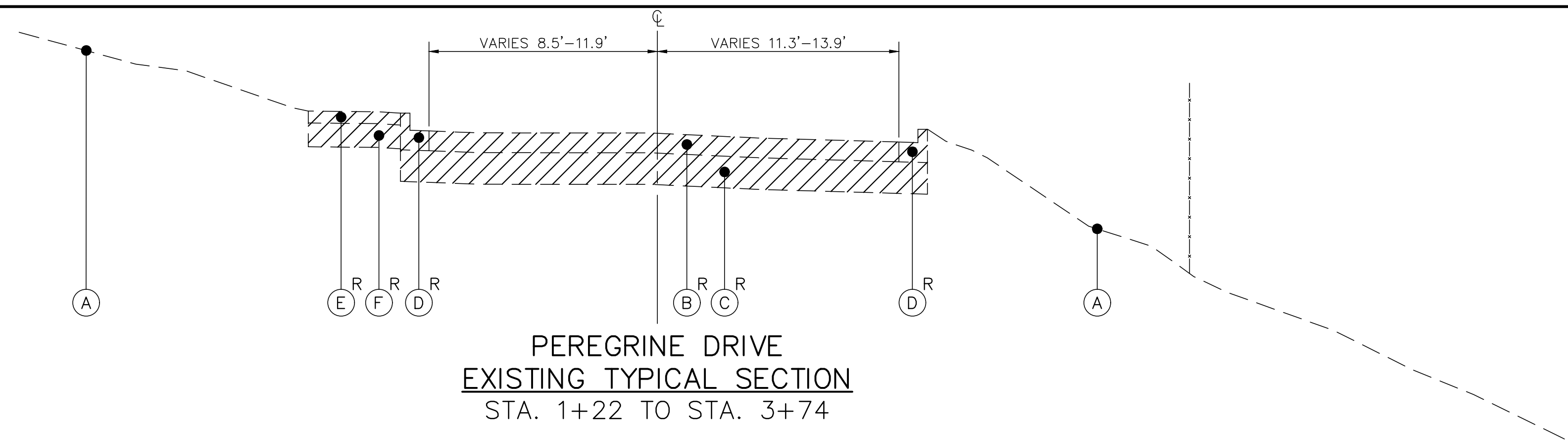
**J.U.L.I.E.**  
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION CALL 811  
  
Know what's below.  
Call before you dig.

**NOTE: CONSTRUCTION MEANS, METHODS AND JOB SITE SAFETY IS THE SOLE AND EXCLUSIVE RESPONSIBILITY OF THE CONTRACTOR**

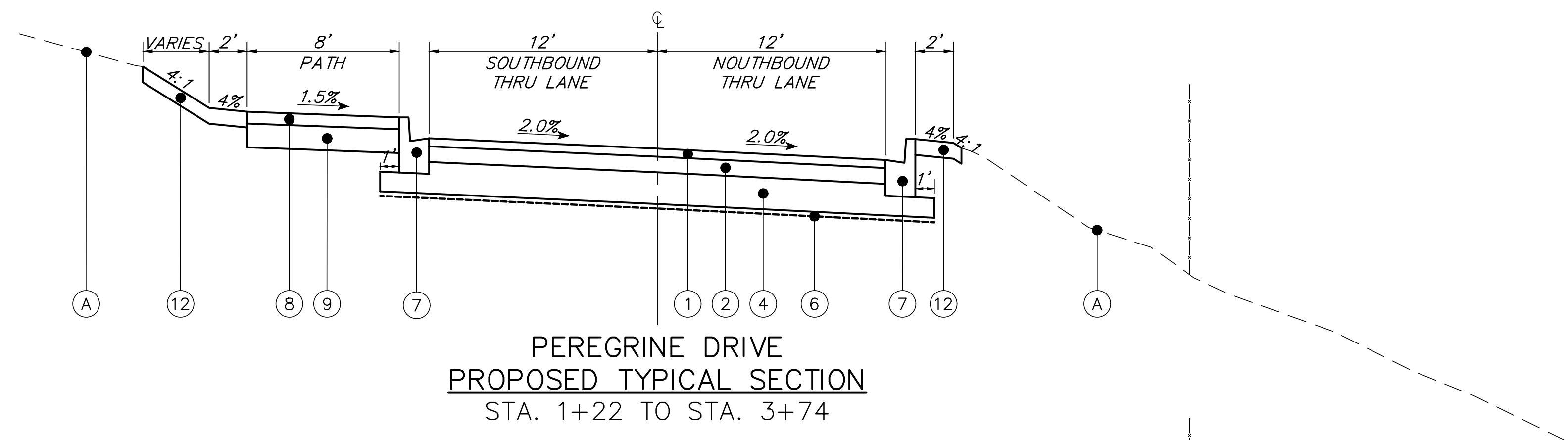
**GHA GEWALT HAMILTON ASSOCIATES, INC.**  
625 Forest Edge Drive ■ Vernon Hills, IL. 60061  
TEL 847.478.9700 ■ FAX 847.478.9701

**COPYRIGHT NOTICE**  
This drawing is the property of Gewalt-Hamilton Assoc., Inc. and is not to be used for any purpose other than the specific project and site named herein, and cannot be reproduced in any manner without the express written permission from Gewalt-Hamilton Associates, Inc.

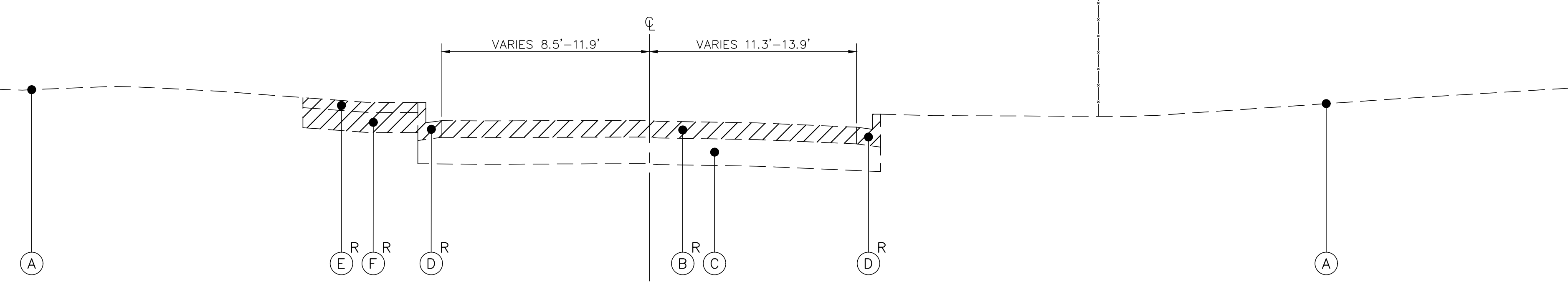




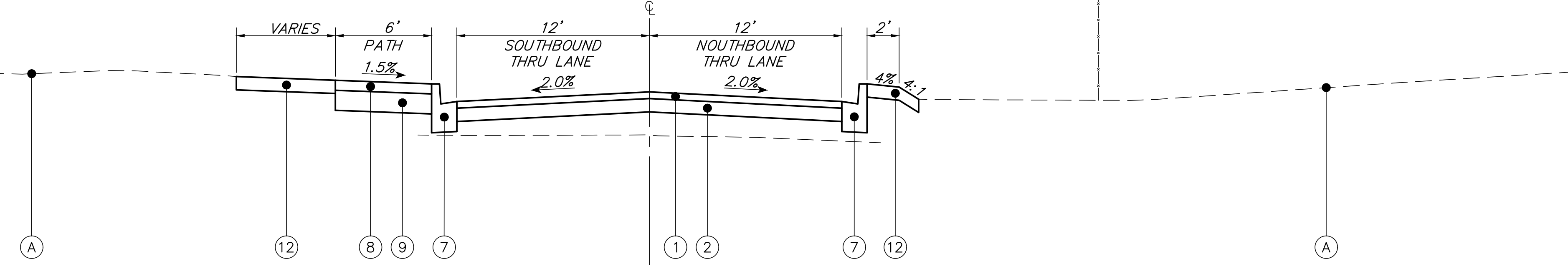
PEREGRINE DRIVE  
EXISTING TYPICAL SECTION  
STA. 1+22 TO STA. 3+74



PEREGRINE DRIVE  
PROPOSED TYPICAL SECTION  
STA. 1+22 TO STA. 3+74



PEREGRINE DRIVE  
EXISTING TYPICAL SECTION  
STA. 0+70 TO STA. 1+22  
STA. 12+55 TO STA. 14+24



PEREGRINE DRIVE  
PROPOSED TYPICAL SECTION  
STA. 0+70 TO STA. 1+22  
STA. 12+55 TO STA. 14+24

NOTE:  
PROPOSED  
PATH FROM STA 12+89.87  
TO STA. 13+93.50

**TYPICAL CROSS SECTION LEGEND**

- NO DESCRIPTION
- (A) EXISTING GROUND
- (B) EXISTING HMA PAVEMENT
- (C) EXISTING SUB BASE
- (D) EXISTING CURB AND GUTTER
- (E) EXISTING HMA PATHWAY
- (F) EXISTING AGGREGATE BASE
- (G) UNDERCUT 9"
- (1) HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N50 (2")
- (2) HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50 (4") (DRIVE LANES)
- (3) HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50 (2") (PARKING AREAS)
- (4) AGGREGATE SUBGRADE IMPROVEMENT, 8"
- (5) AGGREGATE BASE COURSE, CA-1, 9"
- (6) TENCATE TX 130 TRIAXIAL GEOGRID
- (7) COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12
- (8) HOT-MIX ASPHALT PATHWAY (3")
- (9) SUBBASE GRANULAR MATERIAL, TYPE B, 6"
- (10) 6" PVC UNDERDRAIN
- (11) AGGREGATE BASE COURSE, CA-7
- (12) TOPSOIL FURNISH AND PLACE, 4"  
SEEDING, CLASS 2A  
NITROGEN FERTILIZER NUTRIENT  
POTASSIUM FERTILIZER NUTRIENT  
EROSION CONTROL BLANKET
- (R) ITEM TO BE REMOVED

HOT-MIX ASPHALT MIXTURE TABLE	AIR VOIDS @ Ndes
<b>PEREGRINE DRIVE</b>	
HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N50 (2")	4% @ 50 GYRATION
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50 (4")	4% @ 50 GYRATION

THE UNIT WEIGHT USED TO CALCULATE ALL HOT-MIX ASPHALT SURFACE MIXTURES IS 112 LBS/SQ.YD./IN.

THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 76-22" AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64-22" UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS.

FOR USE OF RECYCLED MATERIALS SEE SPECIAL PROVISIONS.

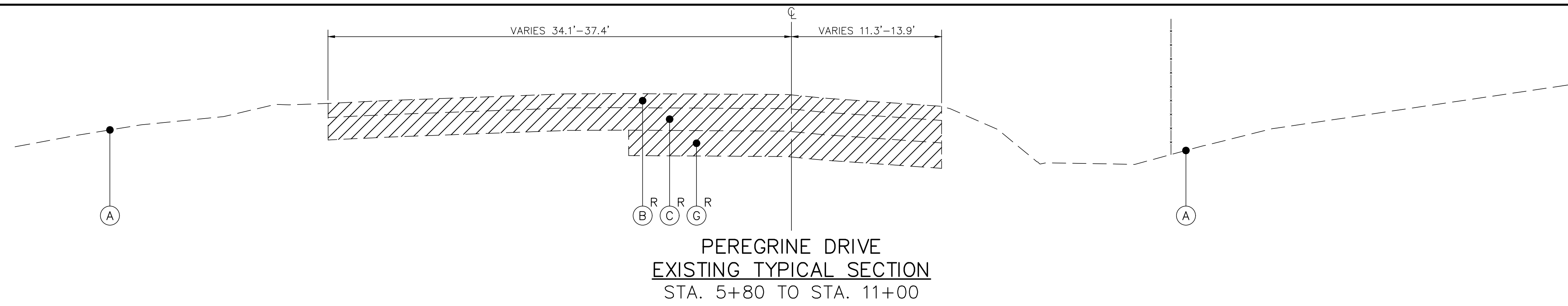
NOTE:  
AGGREGATE SUBGRADE IMPROVEMENT (CU YD) HAS BEEN PROVIDED FOR USE AT LOCATIONS INDICATED FOR SOILS THAT TEND TO BE UNSTABLE AND/OR UNSUITABLE. THE ACTUAL NEED FOR REMOVAL AND REPLACEMENT WITH ASI WILL BE DETERMINED IN THE FIELD AT THE TIME OF CONSTRUCTION BY THE GEOTECHNICAL ENGINEER. ALL POTENTIALLY UNSTABLE SOILS SHOULD BE TESTED WITH A STATIC OT DYNAMIC CONE PENETROMETER AND TREATED IN ACCORDANCE WITH ARTICLE 301.04 OF THE SSRBC AND IDOT SUBGRADE STABILITY MANUAL. IF UNSTABLE AND/OR UNSUITABLE SOILS ARE NOT ENCOUNTERED, THEN THE QUANTITY SHALL BE DEDUCTED AND NO ADDITIONAL COMPENSATION WILL BE DUE TO THE CONTRACTOR.

ALL AGGREGATE SUBGRADE IMPROVEMENT CONTAMINATED AND/OR DAMAGED BY THE CONTRACTOR'S VEHICLES AND/OR EQUIPMENTS IS TO BE REMOVED AND REPLACED AS DIRECTED BY THE ENGINEER AT THE CONTRACTOR'S EXPENSE.

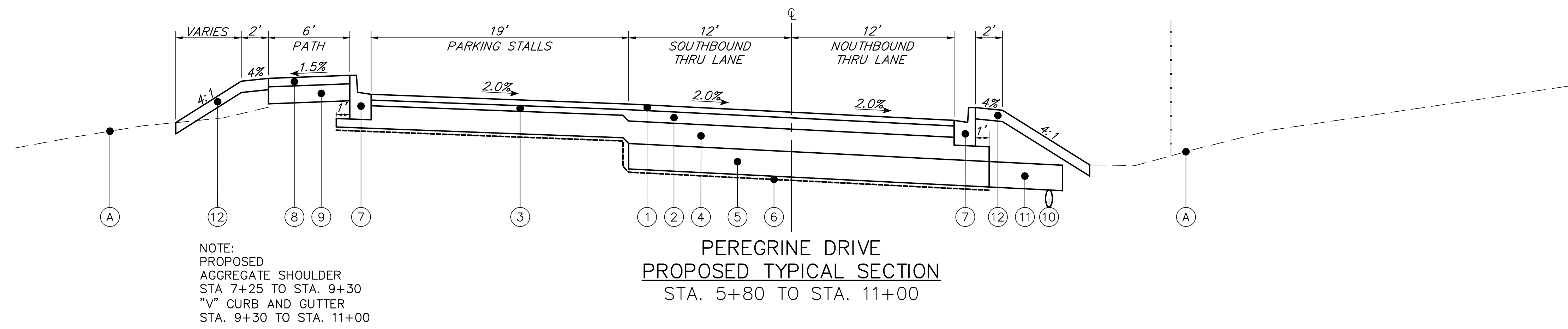
NO.	BY	DATE	REVISION

FILE	SCALE	SHEET NUMBER
DRAWN BY: GHA DATE: 05.04.21	GHA PROJECT # 5241.212	<b>2</b> OF 25 SHEETS
CHECKED BY: TAR DATE: 05.04.21	SCALE: H: 1"=5'	

© 2020 GHA. ALL RIGHTS RESERVED. 6/23/2021 11:19 AM

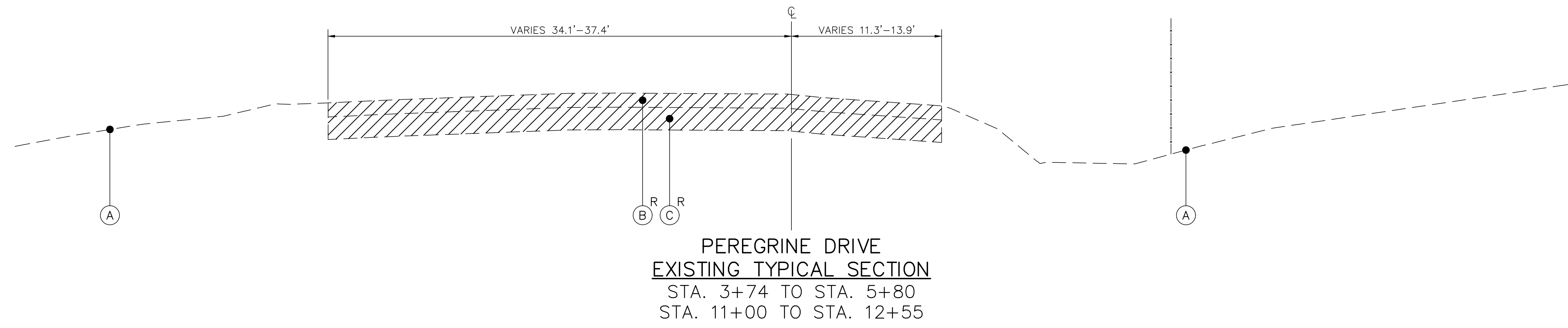


PEREGRINE DRIVE  
EXISTING TYPICAL SECTION  
STA. 5+80 TO STA. 11+00

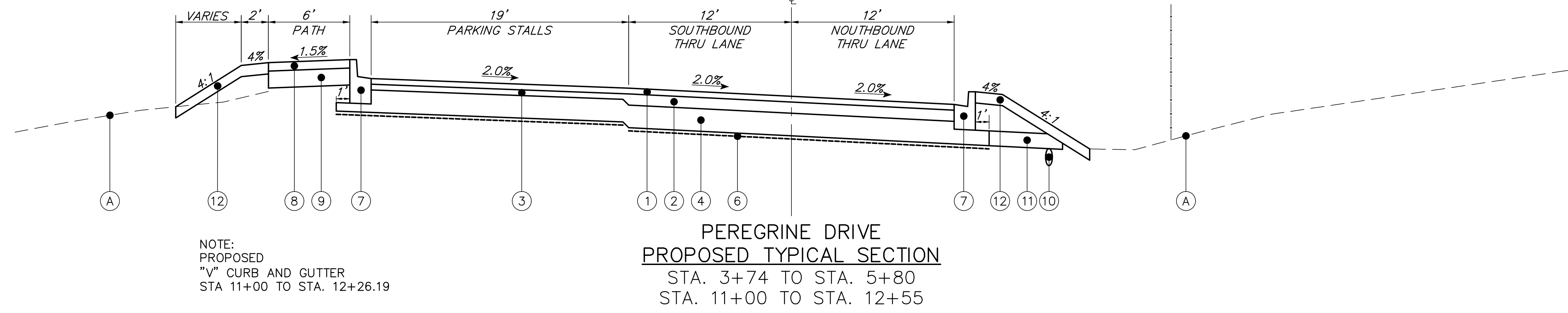


NOTE:  
PROPOSED  
AGGREGATE SHOULDER  
STA 7+25 TO STA. 9+30  
"V" CURB AND GUTTER  
STA. 9+30 TO STA. 11+00

PEREGRINE DRIVE  
PROPOSED TYPICAL SECTION  
STA. 5+80 TO STA. 11+00



PEREGRINE DRIVE  
EXISTING TYPICAL SECTION  
STA. 3+74 TO STA. 5+80  
STA. 11+00 TO STA. 12+55



NOTE:  
PROPOSED  
"V" CURB AND GUTTER  
STA 11+00 TO STA. 12+26.19

PEREGRINE DRIVE  
PROPOSED TYPICAL SECTION  
STA. 3+74 TO STA. 5+80  
STA. 11+00 TO STA. 12+55

- TYPICAL CROSS SECTION LEGEND**
- |      |  |
|------|--|
| NO   | DESCRIPTION  |
| (A)  | EXISTING GROUND  |
| (B)  | EXISTING HMA PAVEMENT  |
| (C)  | EXISTING SUB BASE  |
| (D)  | EXISTING CURB AND GUTTER   |
| (E)  | EXISTING HMA PATHWAY   |
| (F)  | EXISTING AGGREGATE BASE  |
| (G)  | UNDERCUT 9"  |
| (1)  | HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N50 (2")  |
| (2)  | HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50 (4") (DRIVE LANES)   |
| (3)  | HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50 (2") (PARKING AREAS)   |
| (4)  | AGGREGATE SUBGRADE IMPROVEMENT, 8"   |
| (5)  | AGGREGATE BASE COURSE, CA-1, 9"  |
| (6)  | TENCATE TX 130 TRIAXIAL GEOGRID  |
| (7)  | COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12  |
| (8)  | HOT-MIX ASPHALT PATHWAY (3")   |
| (9)  | SUBBASE GRANULAR MATERIAL, TYPE B, 6"  |
| (10) | 6" PVC UNDERDRAIN  |
| (11) | AGGREGATE BASE COURSE, CA-7  |
| (12) | TOPSOIL FURNISH AND PLACE, 4"<br>SEEDING, CLASS 2A<br>NITROGEN FERTILIZER NUTRIENT<br>POTASSIUM FERTILIZER NUTRIENT<br>EROSION CONTROL BLANKET |
| (R)  | ITEM TO BE REMOVED   |

6/23/2021 11:19 AM  
 BIRCHWOOD PARK IMPROVEMENTS ENGINEERING 5241.212 PR.DWG

**GHA GEWALT HAMILTON ASSOCIATES, INC.**  
 625 Forest Edge Drive ■ Vernon Hills, IL. 60061  
 TEL 847.478.9700 ■ FAX 847.478.9701

**COPYRIGHT NOTICE**  
 This drawing is the property of Gewalt-Hamilton Assoc., Inc. and is not to be used for any purpose other than the specific project and site named herein, and cannot be reproduced in any manner without the express written permission from Gewalt-Hamilton Associates, Inc.

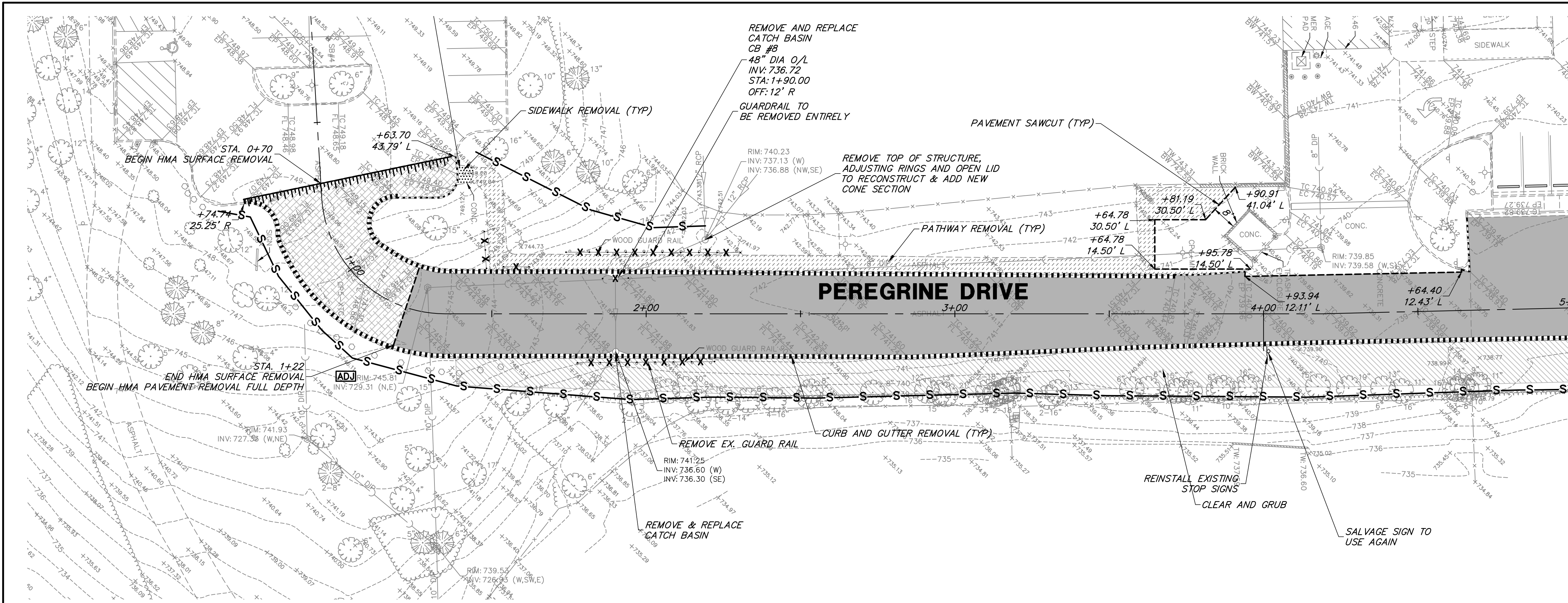
**TYPICAL SECTIONS**  
**BIRCHWOOD PARK IMPROVEMENTS**  
**PALATINE PARK DISTRICT**  
**435 W. ILLINOIS AVENUE, PALATINE, ILLINOIS**

NO.	BY	DATE	REVISION

FILE	
DRAWN BY: GHA	GHA PROJECT #
DATE: 05.04.21	5241.212
CHECKED BY: TAR	SCALE:
DATE: 05.04.21	H: 1"=5'

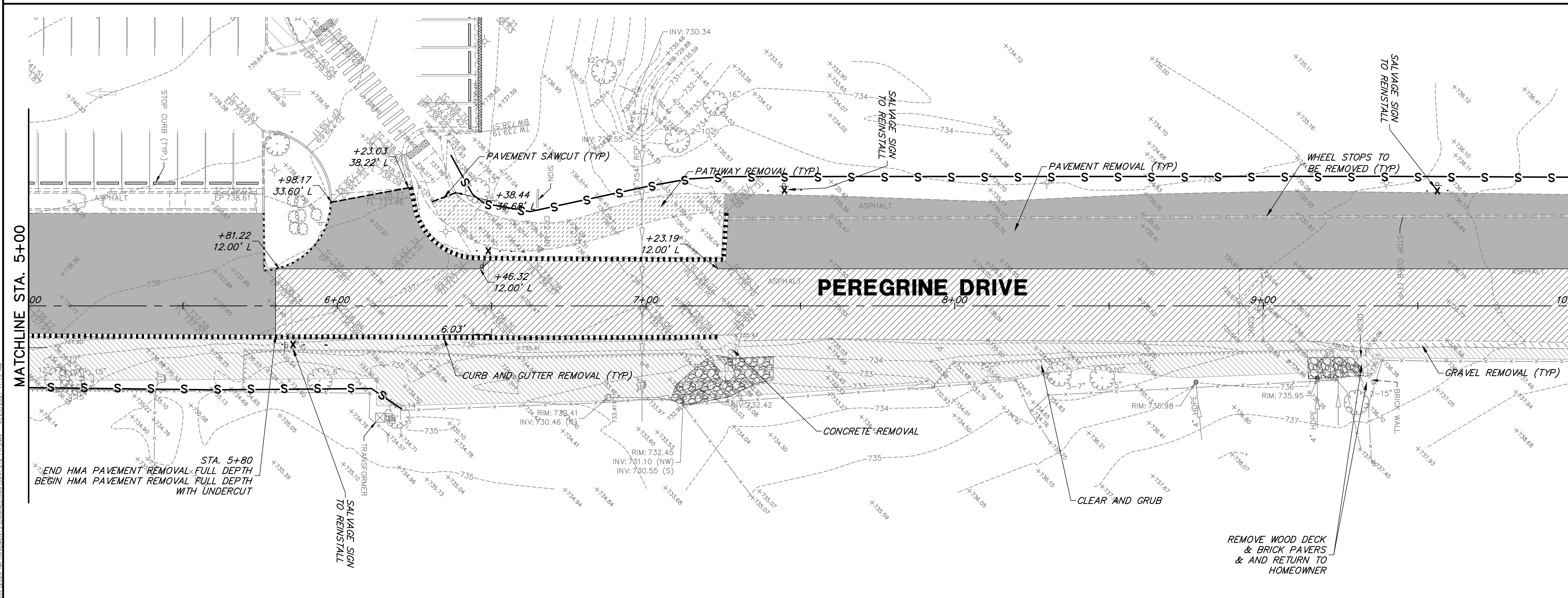
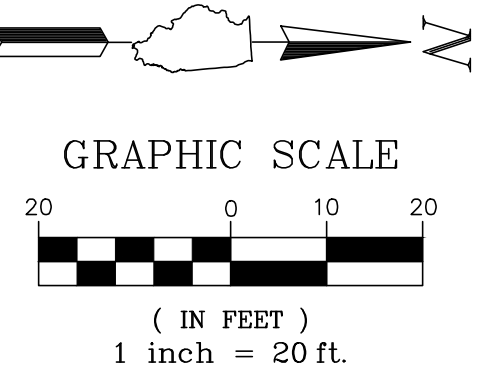
SHEET NUMBER:  
**3**  
 OF 25 SHEETS





**REMOVAL LEGEND**

- HMA PAVEMENT SURFACE REMOVAL
- HMA PAVEMENT REMOVAL FULL DEPTH
- HMA PAVEMENT REMOVAL FULL DEPTH WITH UNDERCUT
- EARTH/GRAVEL REMOVAL
- SIDEWALK REMOVAL
- PATHWAY REMOVAL
- CLEAR AND GRUB
- STRUCTURE TO BE ADJUSTED
- SIGN REMOVAL
- TREE/SHRUB REMOVAL
- PERIMETER EROSION BARRIER
- TREE TRUNK PROTECTION FENCE
- CURB/COMBINATION CURB AND GUTTER REMOVAL
- HMA SURFACE REMOVAL - BUTT JOINT
- UTILITY TO BE ABANDONED
- UTILITY TO BE REMOVED
- TREE ROOT PRUNING
- GUARDRAIL TO BE REMOVED
- PAVEMENT SAWCUT
- STRUCTURE TO BE ABANDONED
- STRUCTURE REMOVAL



**EXISTING CONDITION AND DEMOLITION NOTES**

1. Prior to starting any construction, provide soil erosion and sediment control devices as shown on the plans and as required per MWRD guidelines. Refer to notes and details throughout the entire plan set.
2. Prior to starting any excavation work, provide tree protection, preservation and root pruning as shown on the plans and notes throughout the entire plan set.
3. Contractor shall refer to subsurface soil exploration report.
4. The contractor shall be responsible for fencing the active work zone from the public and protecting the public from any construction related hazards. At a minimum, all excavation, demolition areas and other areas potentially hazardous to pedestrians and vehicles must be protected.
5. Temporary stone or asphalt pathways shall be provided as needed throughout the course of construction to facilitate safe pedestrian and vehicular movement. The longitudinal slope of such paths shall not exceed 5% and cross slopes shall not exceed 2%. Provide 6" CA-6 base and 2" surface asphalt.
6. The contractor is responsible for the demolition and disposal of all existing improvements onsite necessary to complete the job. These improvements include, but are not limited to, existing pavements, curbs, sidewalks, utilities, lighting, light bases, manholes, fences, foundations, and other structures within the work area. Excavate and grade to proposed pavement and building subbase grades. (Refer to foundation plans for proposed building subbase grades.) These items shall be completely removed and legally disposed of offsite.
7. The Contractor shall include all associated costs with the removal, transport, disposal, testing and certification of "Uncontaminated Soil" as defined under 415 ILCS 5/3.160 including any fees, taxes, or surcharges charged by or through the operator(s) of Clean Construction or Demolition Debris Fill Operations or Uncontaminated Soil Fill Operations for the acceptance of Uncontaminated Soil.

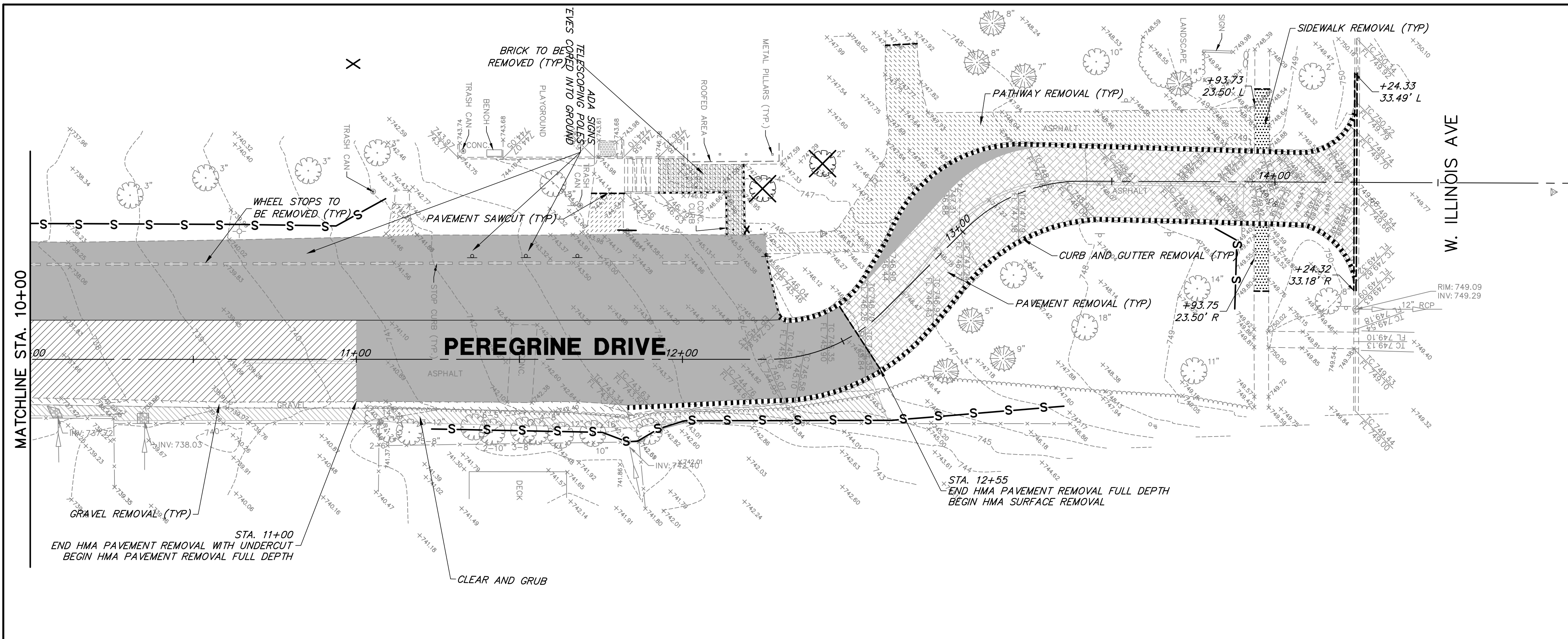
**GHA GEWALT HAMILTON ASSOCIATES, INC.**  
 625 Forest Edge Drive ■ Vernon Hills, IL. 60061  
 TEL 847.478.9700 ■ FAX 847.478.9701

**COPYRIGHT NOTICE**  
 This drawing is the property of Gewalt-Hamilton Assoc., Inc. and is not to be used for any purpose other than the specific project and site named herein, and cannot be reproduced in any manner without the express written permission from Gewalt-Hamilton Associates, Inc.

**EXISTING CONDITIONS/DEMOLITION PLAN**  
**BIRCHWOOD PARK IMPROVEMENTS**  
**PALATINE PARK DISTRICT**  
**435 W. ILLINOIS AVENUE, PALATINE, ILLINOIS**

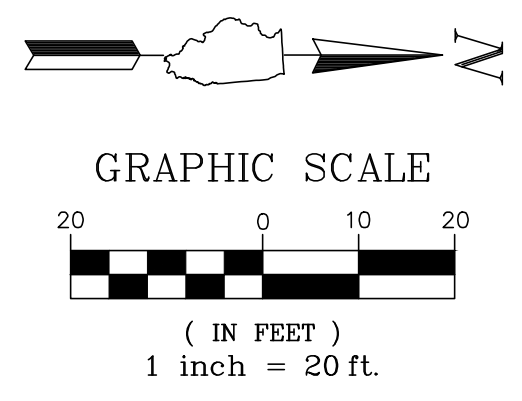
FILE		SHEET NUMBER:					
DRAWN BY: GHA	GHA PROJECT #	<b>4</b>	OF 25 SHEETS				
DATE: 05.04.21	5241.212						
CHECKED BY: TAR	SCALE:						
DATE: 05.04.21	1"=20'						
NO.	BY	DATE	REVISION	NO.	BY	DATE	REVISION
1		6/22/2021	ALL SIGNS, SPEED BUMPS AND EQUIPMENT TO BE RETURNED TO PARK DISTRICT				





**REMOVAL LEGEND**

- HMA PAVEMENT SURFACE REMOVAL
- HMA PAVEMENT REMOVAL FULL DEPTH
- HMA PAVEMENT REMOVAL FULL DEPTH WITH UNDERCUT
- EARTH/GRAVEL REMOVAL
- SIDEWALK REMOVAL
- PATHWAY REMOVAL
- CLEAR AND GRUB
- STRUCTURE TO BE ADJUSTED
- SIGN REMOVAL
- TREE/SHRUB REMOVAL
- PERIMETER EROSION BARRIER
- TREE TRUNK PROTECTION FENCE
- CURB/COMBINATION CURB AND GUTTER REMOVAL
- HMA SURFACE REMOVAL - BUTT JOINT
- UTILITY TO BE ABANDONED
- UTILITY TO BE REMOVED
- TREE ROOT PRUNING
- GUARDRAIL TO BE REMOVED
- PAVEMENT SAWCUT
- STRUCTURE TO BE ABANDONED
- STRUCTURE REMOVAL



**EXISTING CONDITION AND DEMOLITION NOTES**

1. Prior to starting any construction, provide soil erosion and sediment control devices as shown on the plans and as required per MWRD guidelines. Refer to notes and details throughout the entire plan set.
2. Prior to starting any excavation work, provide tree protection, preservation and root pruning as shown on the plans and notes throughout the entire plan set.
3. Contractor shall refer to subsurface soil exploration report.
4. The contractor shall be responsible for fencing the active work zone from the public and protecting the public from any construction related hazards. At a minimum, all excavation, demolition areas and other areas potentially hazardous to pedestrians and vehicles must be protected.
5. Temporary stone or asphalt pathways shall be provided as needed throughout the course of construction to facilitate safe pedestrian and vehicular movement. The longitudinal slope of such paths shall not exceed 5% and cross slopes shall not exceed 2%. Provide 6" CA-6 base and 2" surface asphalt.
6. The contractor is responsible for the demolition and disposal of all existing improvements onsite necessary to complete the job. These improvements include, but are not limited to, existing pavements, curbs, sidewalks, utilities, lighting, light bases, manholes, fences, foundations, and other structures within the work area. Excavate and grade to proposed pavement and building subbase grades. (Refer to foundation plans for proposed building subbase grades.) These items shall be completely removed and legally disposed of offsite.
7. The Contractor shall include all associated costs with the removal, transport, disposal, testing and certification of "Uncontaminated Soil" as defined under 415 ILCS 5/3.160 including any fees, taxes, or surcharges charged by or through the operator(s) of Clean Construction or Demolition Debris Fill Operations or Uncontaminated Soil Fill Operations for the acceptance of Uncontaminated Soil.

**GHA GEWALT HAMILTON ASSOCIATES, INC.**  
 625 Forest Edge Drive ■ Vernon Hills, IL. 60061  
 TEL 847.478.9700 ■ FAX 847.478.9701

**COPYRIGHT NOTICE**  
 This drawing is the property of Gewalt-Hamilton Assoc., Inc. and is not to be used for any purpose other than the specific project and site named herein, and cannot be reproduced in any manner without the express written permission from Gewalt-Hamilton Associates, Inc.

**EXISTING CONDITIONS/DEMOLITION PLAN**

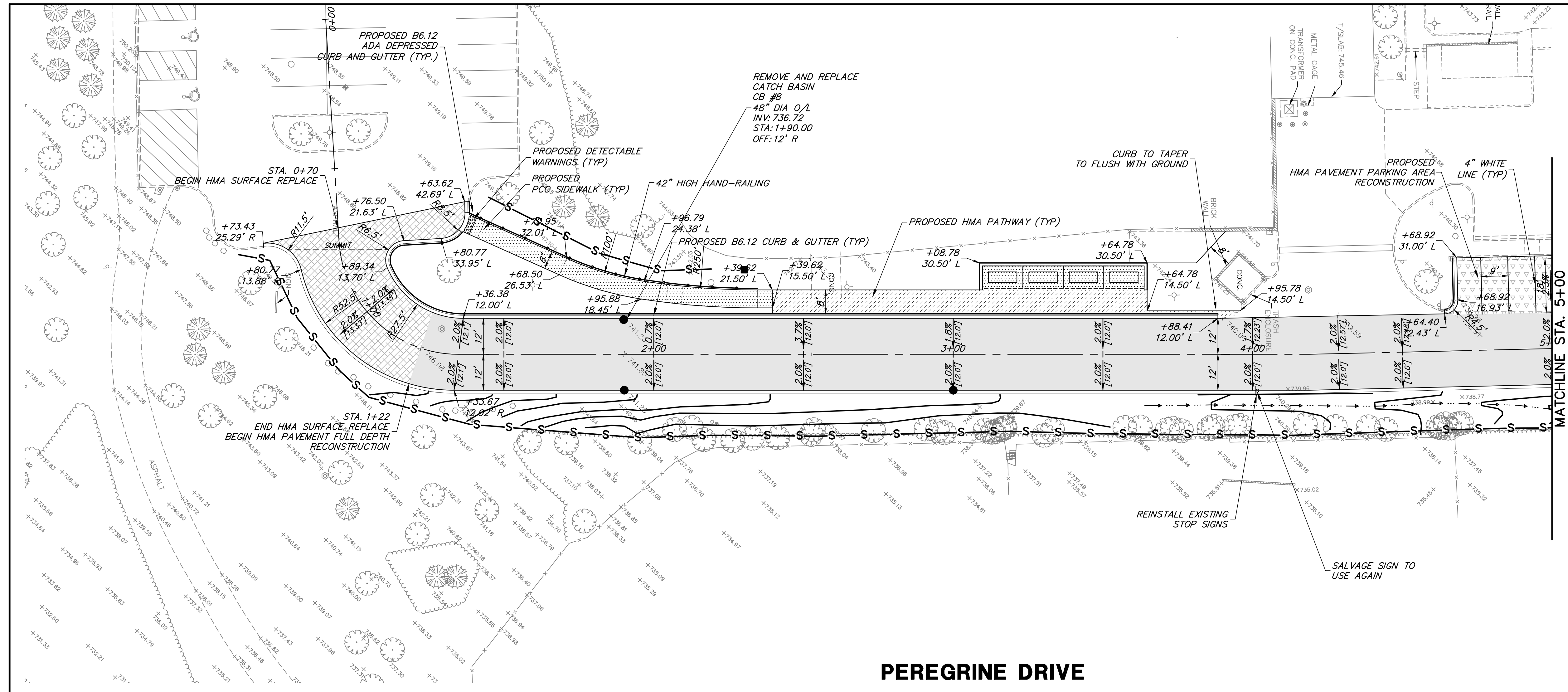
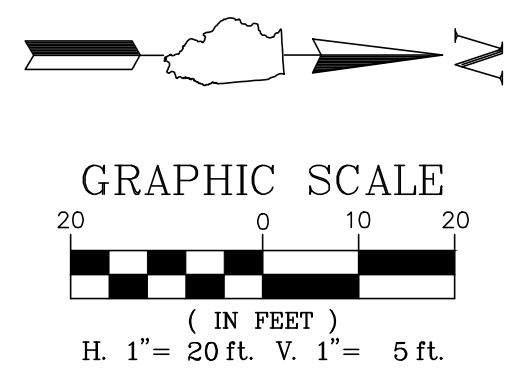
**BIRCHWOOD PARK IMPROVEMENTS  
 PALATINE PARK DISTRICT  
 435 W. ILLINOIS AVENUE, PALATINE, ILLINOIS**

NO.	BY	DATE	REVISION	NO.	BY	DATE	REVISION
1		6/22/2021	ALL SIGNS, SPEED BUMPS AND EQUIPMENT TO BE RETURNED TO PARK DISTRICT				

FILE	
DRAWN BY: GHA	GHA PROJECT #
DATE: 05.04.21	5241.212
CHECKED BY: TAR	SCALE:
DATE: 05.04.21	1"=20'

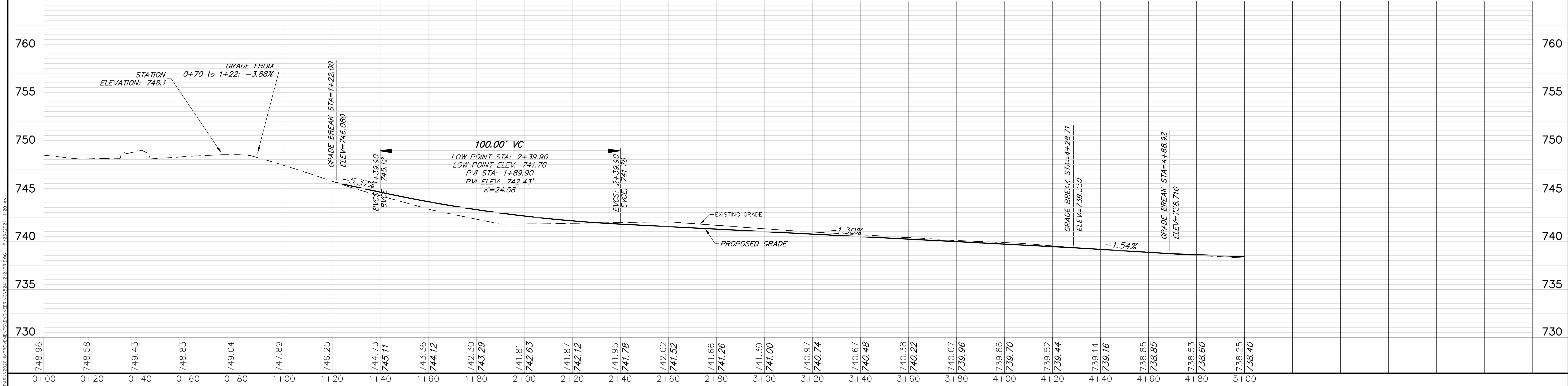
SHEET NUMBER:  
**5**  
 OF 25 SHEETS

6/23/2021 11:20 AM  
 BIRCHWOOD PARK IMPROVEMENTS/ENGINEERING/241212-PR.DWG



- PROPOSED LEGEND**
- HMA SURFACE REPLACE (SEE TYPICAL SECTIONS)
  - HMA PAVEMENT FULL DEPTH RECONSTRUCTION (SEE TYPICAL SECTIONS)
  - HMA PAVEMENT FULL DEPTH RECONSTRUCTION AND UNDERCUT (SEE TYPICAL SECTIONS)
  - HMA PAVEMENT PARKING AREA RECONSTRUCTION (SEE TYPICAL SECTIONS)
  - AGGREGATE SHOULDERS, 6"
  - PCC SIDEWALK
  - HMA PATHWAY (SEE TYPICAL SECTIONS)
  - STONE RIP RAP, CLASS A1
  - DETECTABLE WARNINGS
  - B6.12 CURB & GUTTER (REGULAR)
  - B6.12 CURB & GUTTER (DEPRESSED)
  - B6.12 CURB & GUTTER (REVERSE PITCH)

**PEREGRINE DRIVE**



**PLAN AND PROFILE (STA. 0+00 TO 5+00)**

**GHA GEWALT HAMILTON ASSOCIATES, INC.**  
 625 Forest Edge Drive ■ Vernon Hills, IL. 60061  
 TEL 847.478.9700 ■ FAX 847.478.9701

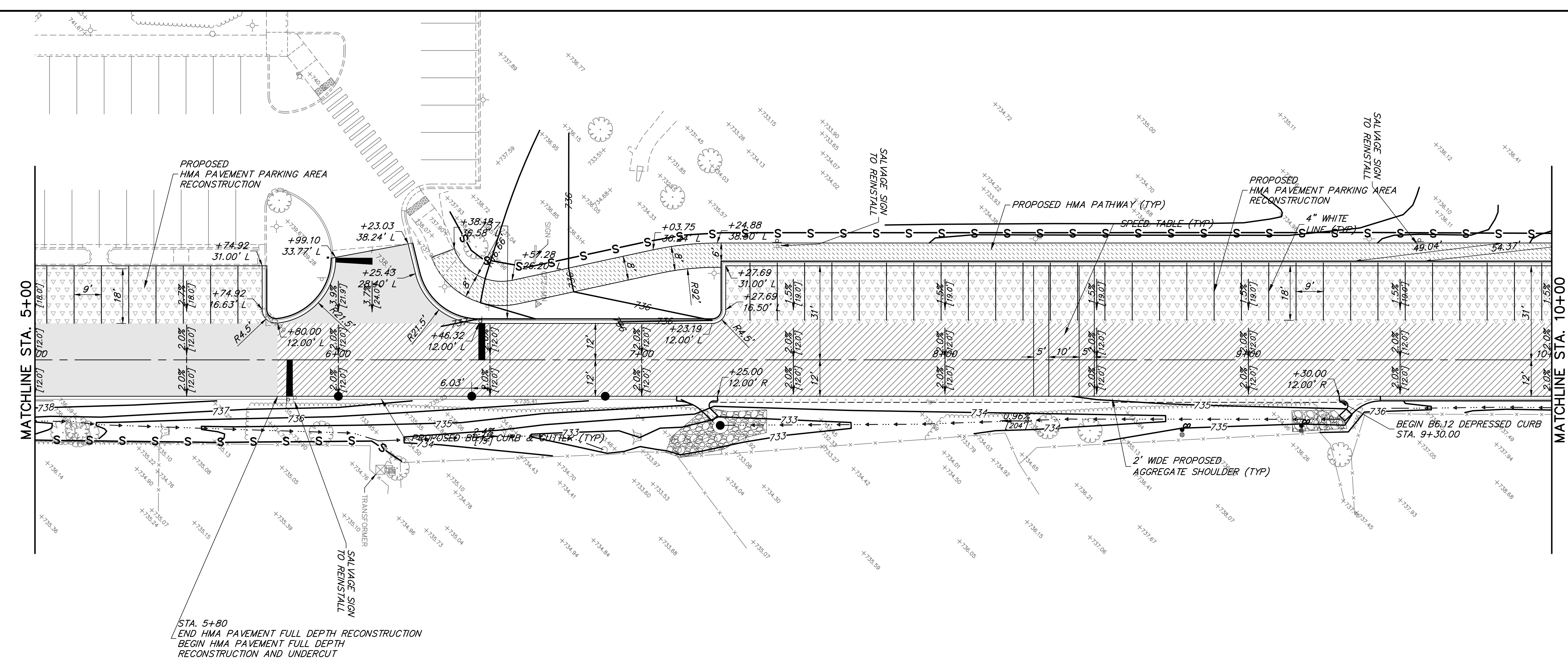
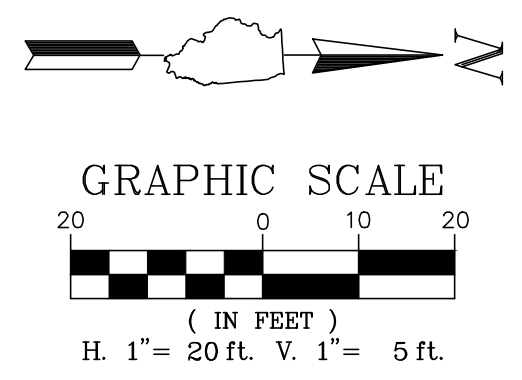
**COPYRIGHT NOTICE**  
 This drawing is the property of Gewalt-Hamilton Assoc., Inc. and is not to be used for any purpose other than the specific project and site named herein, and cannot be reproduced in any manner without the express written permission from Gewalt-Hamilton Associates, Inc.

**BIRCHWOOD PARK IMPROVEMENTS  
 PALATINE PARK DISTRICT  
 435 W. ILLINOIS AVENUE, PALATINE, ILLINOIS**

NO.	BY	DATE	REVISION

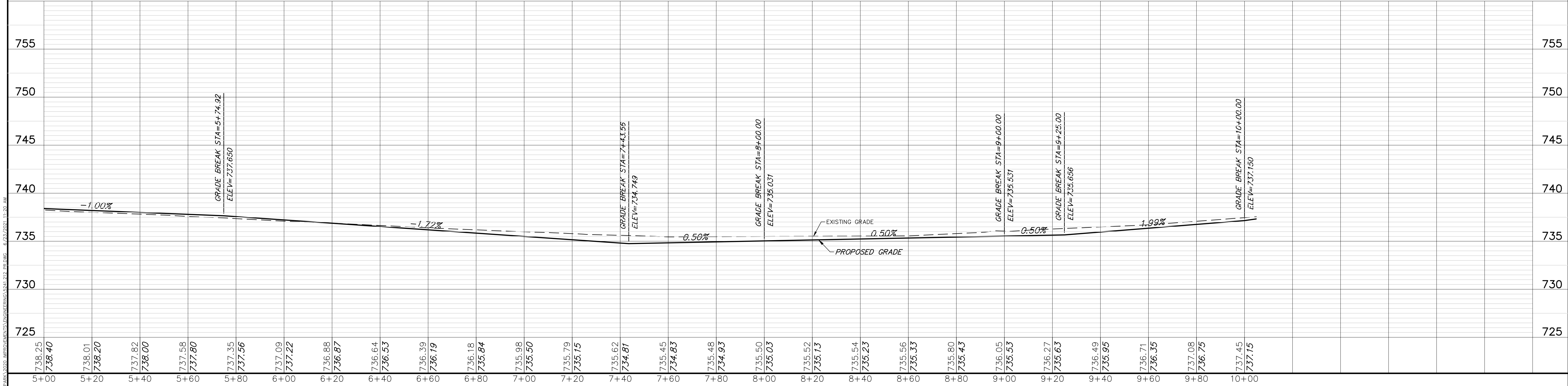
FILE		SHEET NUMBER:	<b>6</b>
DRAWN BY: GHA	GHA PROJECT #		
DATE: 05.04.21	5241.212		
CHECKED BY: TAR	SCALE:		
DATE: 05.04.21	AS NOTED		

6/23/2021 11:20 AM  
 C:\PROJECTS\BIRCHWOOD PARK IMPROVEMENTS\ENGINEERING\241212.PR.DWG



- PROPOSED LEGEND**
- HMA SURFACE REPLACE (SEE TYPICAL SECTIONS)
  - HMA PAVEMENT FULL DEPTH RECONSTRUCTION (SEE TYPICAL SECTIONS)
  - HMA PAVEMENT FULL DEPTH RECONSTRUCTION AND UNDERCUT (SEE TYPICAL SECTIONS)
  - HMA PAVEMENT PARKING AREA RECONSTRUCTION (SEE TYPICAL SECTIONS)
  - AGGREGATE SHOULDERS, 6"
  - PCC SIDEWALK
  - HMA PATHWAY (SEE TYPICAL SECTIONS)
  - STONE RIP RAP, CLASS A1
  - DETECTABLE WARNINGS
  - B6.12 CURB & GUTTER (REGULAR)
  - B6.12 CURB & GUTTER (DEPRESSED)
  - B6.12 CURB & GUTTER (REVERSE PITCH)

**PEREGRINE DRIVE**



**PLAN AND PROFILE (STA. 5+00 TO 10+00)**

**GHA GEWALT HAMILTON ASSOCIATES, INC.**  
 625 Forest Edge Drive ■ Vernon Hills, IL. 60061  
 TEL 847.478.9700 ■ FAX 847.478.9701

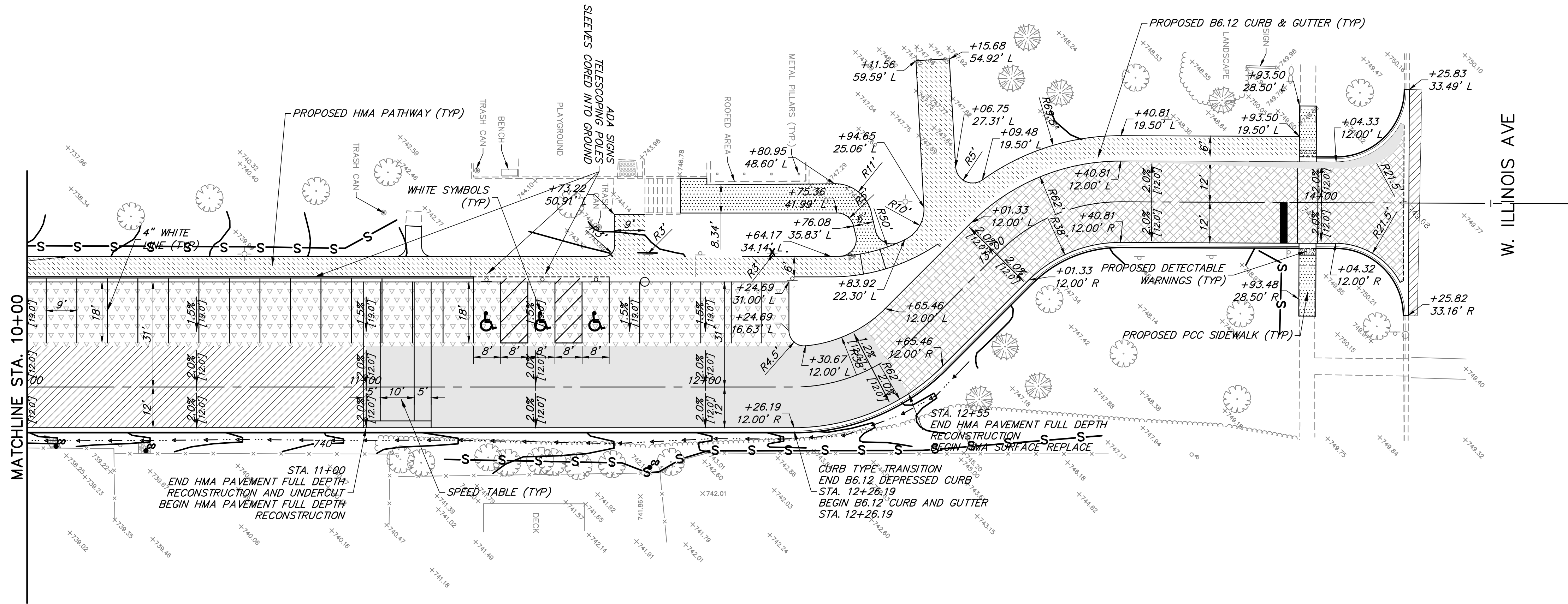
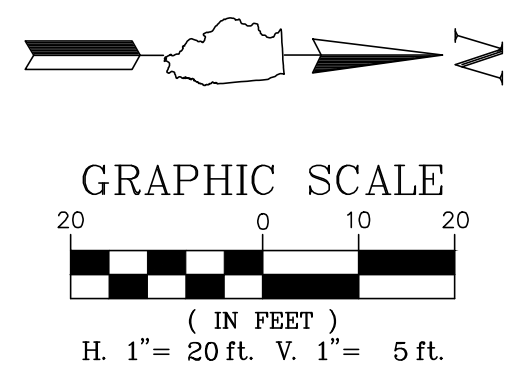
**COPYRIGHT NOTICE**  
 This drawing is the property of Gewalt-Hamilton Assoc., Inc. and is not to be used for any purpose other than the specific project and site named herein, and cannot be reproduced in any manner without the express written permission from Gewalt-Hamilton Associates, Inc.

**BIRCHWOOD PARK IMPROVEMENTS**  
**PALATINE PARK DISTRICT**  
**435 W. ILLINOIS AVENUE, PALATINE, ILLINOIS**

NO.	BY	DATE	REVISION

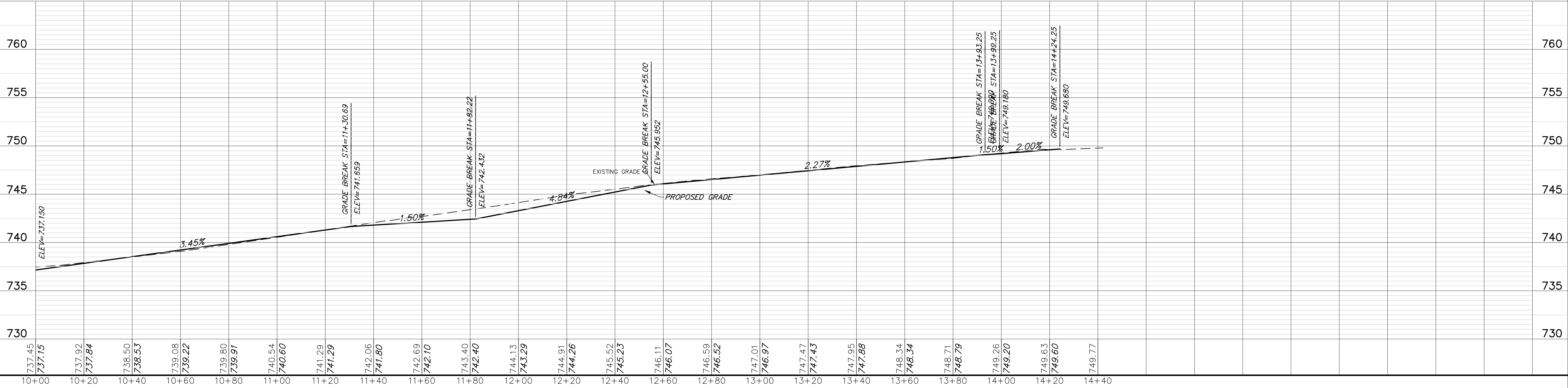
<b>FILE</b>		<b>SHEET NUMBER:</b> <b>7</b>
<b>DRAWN BY:</b> GHA	<b>GHA PROJECT #</b> 5241.212	
<b>DATE:</b> 05.04.21		
<b>CHECKED BY:</b> TAR	<b>SCALE:</b> AS NOTED	<b>OF 25 SHEETS</b>
<b>DATE:</b> 05.04.21		





- PROPOSED LEGEND**
- HMA SURFACE REPLACE (SEE TYPICAL SECTIONS)
  - HMA PAVEMENT FULL DEPTH RECONSTRUCTION (SEE TYPICAL SECTIONS)
  - HMA PAVEMENT FULL DEPTH RECONSTRUCTION AND UNDERCUT (SEE TYPICAL SECTIONS)
  - HMA PAVEMENT PARKING AREA RECONSTRUCTIVE (SEE TYPICAL SECTIONS)
  - AGGREGATE SHOULDERS, 6"
  - PCC SIDEWALK
  - HMA PATHWAY (SEE TYPICAL SECTIONS)
  - STONE RIP RAP, CLASS A1
  - DETECTABLE WARNINGS
  - B6.12 CURB & GUTTER (REGULAR)
  - B6.12 CURB & GUTTER (DEPRESSED)
  - B6.12 CURB & GUTTER (REVERSE PITCH)

**PEREGRINE DRIVE**



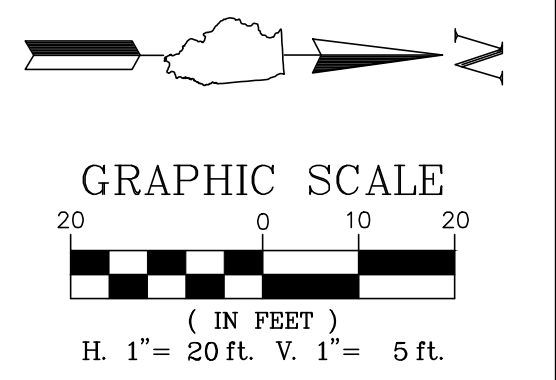
**GHA GEWALT HAMILTON ASSOCIATES, INC.**  
 625 Forest Edge Drive ■ Vernon Hills, IL. 60061  
 TEL 847.478.9700 ■ FAX 847.478.9701

**COPYRIGHT NOTICE**  
 This drawing is the property of Gewalt-Hamilton Assoc., Inc. and is not to be used for any purpose other than the specific project and site named herein, and cannot be reproduced in any manner without the express written permission from Gewalt-Hamilton Associates, Inc.

**PLAN AND PROFILE (STA. 10+00 TO 14+40)**  
**BIRCHWOOD PARK IMPROVEMENTS**  
**PALATINE PARK DISTRICT**  
**435 W. ILLINOIS AVENUE, PALATINE, ILLINOIS**

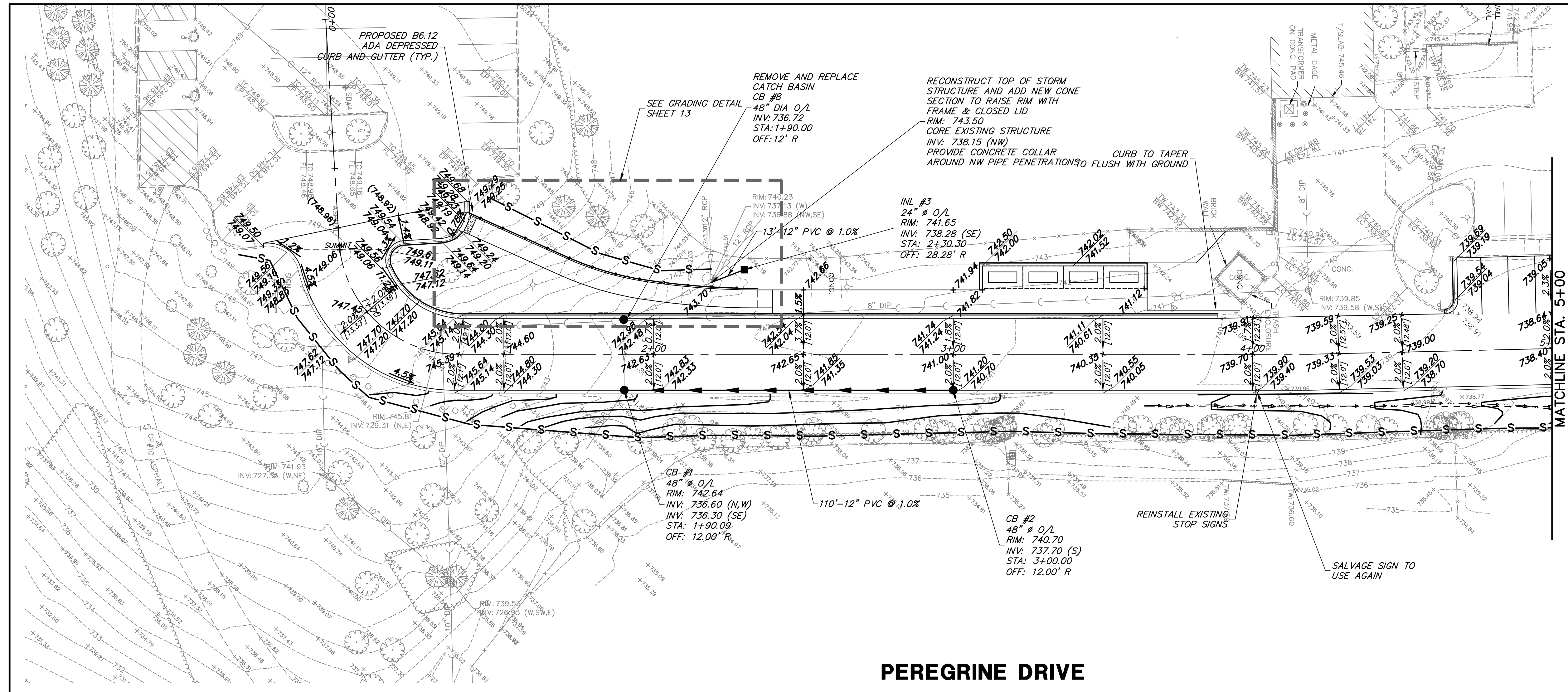
NO.	BY	DATE	REVISION

FILE		SHEET NUMBER:
DRAWN BY: GHA	GHA PROJECT #	<b>8</b>
DATE: 05.04.21	5241.212	
CHECKED BY: TAR	SCALE:	OF 25 SHEETS
DATE: 05.04.21	AS NOTED	

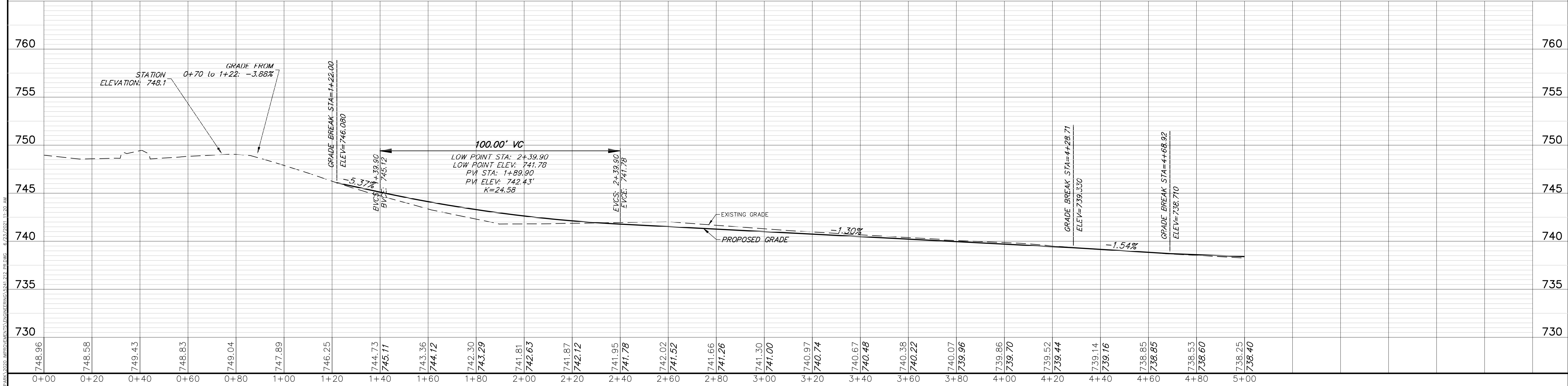


**LEGEND**

- TOP OF CURB FLOW LINE
- PROPOSED SPOT ELEVATION
- CONTOUR
- STRUCTURE ADJUSTMENT
- SUMMITS
- SLOPES
- SWALES
- OVERLAND FLOW ROUTE
- EXISTING STORM SEWER
- EXISTING SANITARY SEWER
- EXISTING WATERMAIN
- PROPOSED STORM SEWER
- PROPOSED SANITARY SEWER
- PROPOSED WATERMAIN
- EXISTING**
- STORM MANHOLE
- STORM CATCHBASIN
- STORM INLET
- FLARED END SECTION
- SANITARY MANHOLE
- SIGN
- PROPOSED**
- STORM MANHOLE
- STORM CATCHBASIN
- STORM INLET
- FLARED END SECTION
- SANITARY MANHOLE
- SIGN



**PEREGRINE DRIVE**



**GHA** **GEWALT HAMILTON ASSOCIATES, INC.**  
 625 Forest Edge Drive ■ Vernon Hills, IL. 60061  
 TEL 847.478.9700 ■ FAX 847.478.9701

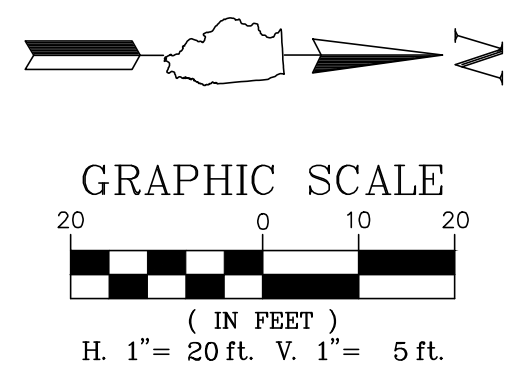
**COPYRIGHT NOTICE**  
 This drawing is the property of Gewalt-Hamilton Assoc., Inc. and is not to be used for any purpose other than the specific project and site named herein, and cannot be reproduced in any manner without the express written permission from Gewalt-Hamilton Associates, Inc.

**GRADING AND UTILITY PLAN (STA. 0+00 TO 5+00)**  
**BIRCHWOOD PARK IMPROVEMENTS**  
**PALATINE PARK DISTRICT**  
**435 W. ILLINOIS AVENUE, PALATINE, ILLINOIS**

NO.	BY	DATE	REVISION

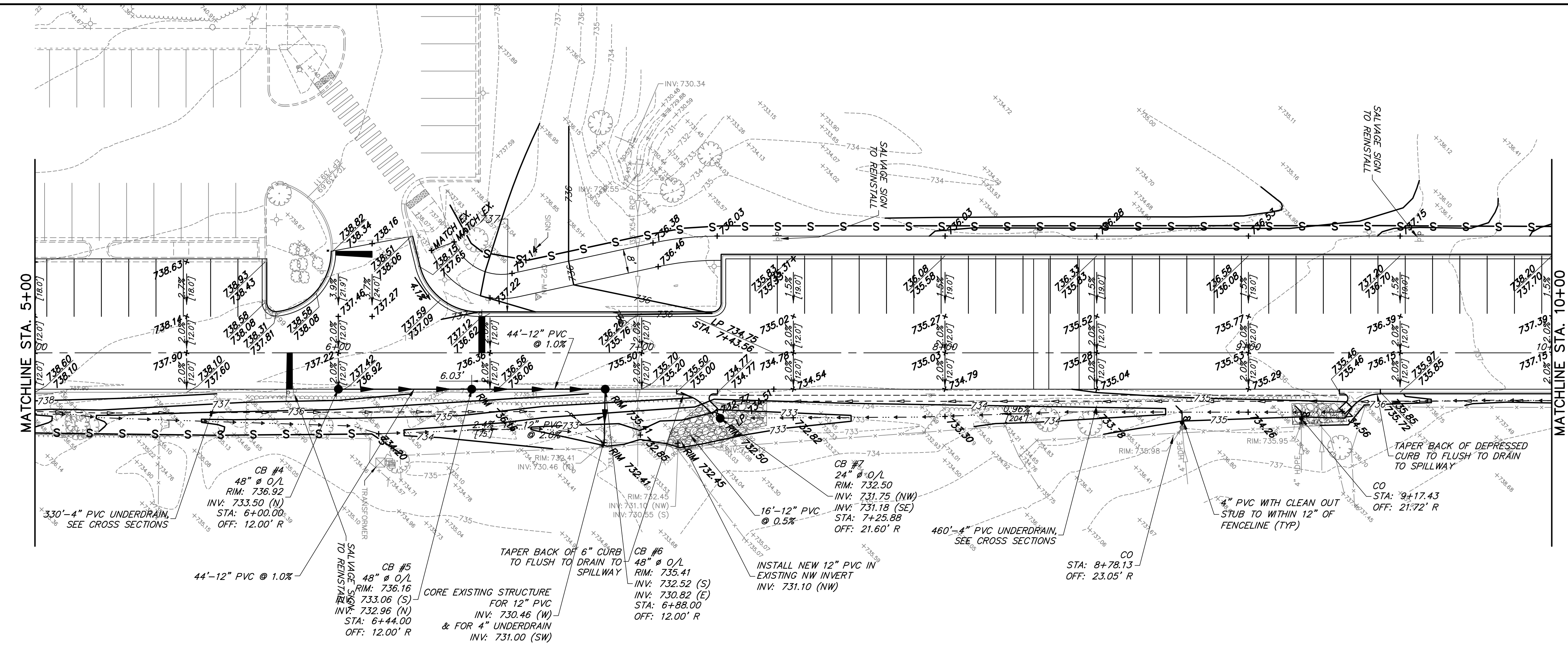
<b>FILE</b>	<b>SHEET NUMBER:</b>
<b>DRAWN BY:</b> GHA	<b>GHA PROJECT #</b>
<b>DATE:</b> 05.04.21	5241.212
<b>CHECKED BY:</b> TAR	<b>SCALE:</b>
<b>DATE:</b> 05.04.21	AS NOTED
<b>NO. BY</b>	<b>DATE</b>
<b>REVISION</b>	<b>REVISION</b>



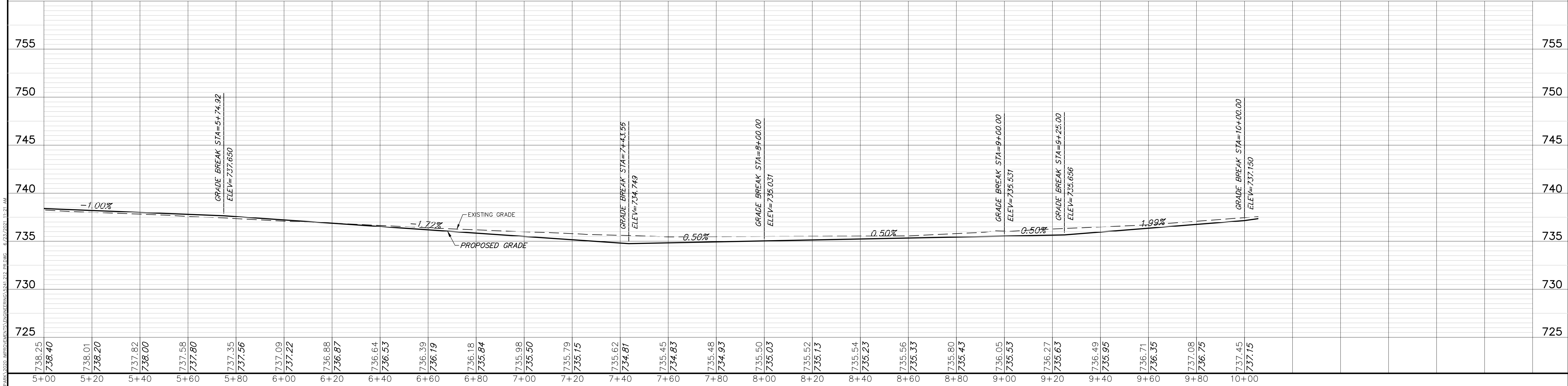


**LEGEND**

- TOP OF CURB FLOW LINE
  - PROPOSED SPOT ELEVATION
  - CONTOUR
  - STRUCTURE ADJUSTMENT
  - SUMMITS
  - SLOPES
  - SWALES
  - OVERLAND FLOW ROUTE
  - EXISTING STORM SEWER
  - EXISTING SANITARY SEWER
  - EXISTING WATERMAIN
  - PROPOSED STORM SEWER
  - PROPOSED SANITARY SEWER
  - PROPOSED WATERMAIN
- EXISTING    PROPOSED
- STORM MANHOLE
  - STORM CATCHBASIN
  - STORM INLET
  - FLARED END SECTION
  - SANITARY MANHOLE
  - SIGN



**PEREGRINE DRIVE**



**GHA GEWALT HAMILTON ASSOCIATES, INC.**  
 625 Forest Edge Drive ■ Vernon Hills, IL. 60061  
 TEL 847.478.9700 ■ FAX 847.478.9701

**COPYRIGHT NOTICE**  
 This drawing is the property of Gewalt-Hamilton Assoc., Inc. and is not to be used for any purpose other than the specific project and site named herein, and cannot be reproduced in any manner without the express written permission from Gewalt-Hamilton Associates, Inc.

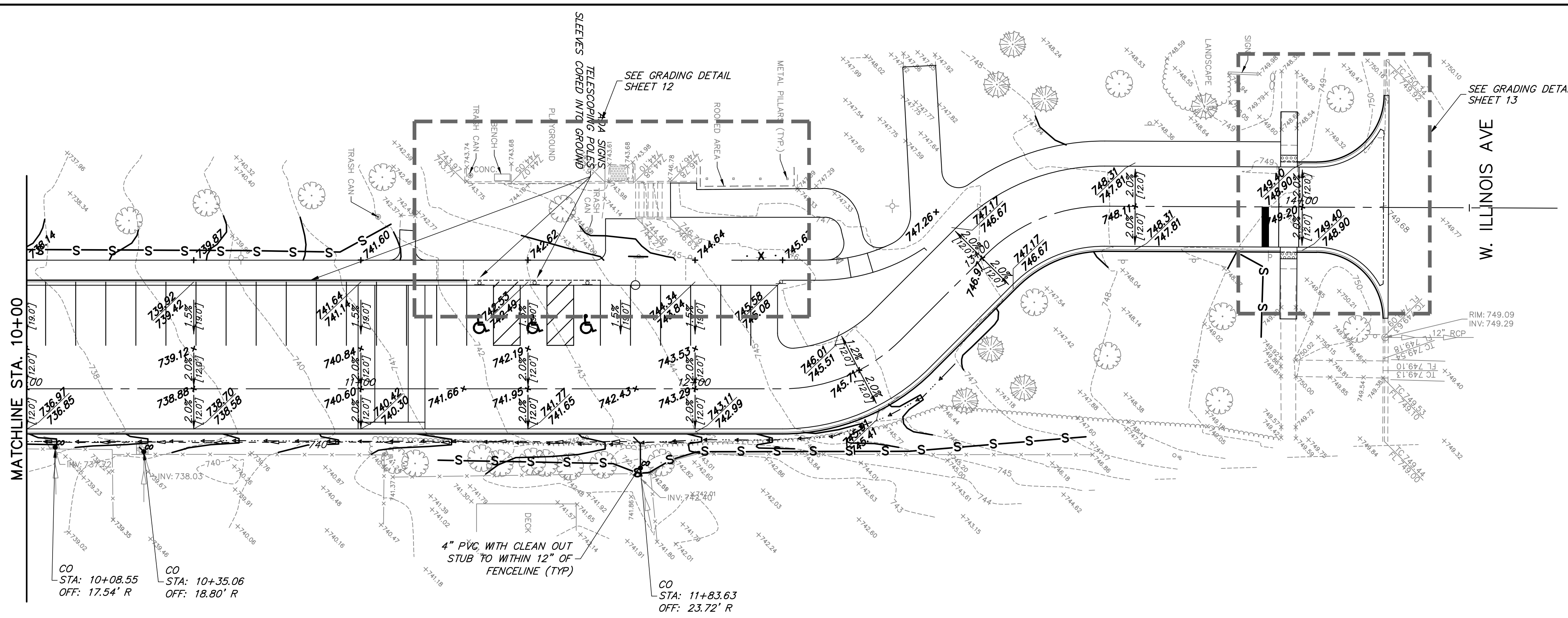
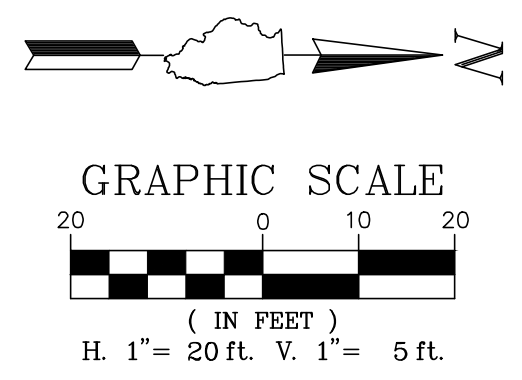
**GRADING AND UTILITY PLAN (STA. 5+00 TO 10+00)**

**BIRCHWOOD PARK IMPROVEMENTS**  
**PALATINE PARK DISTRICT**  
**435 W. ILLINOIS AVENUE, PALATINE, ILLINOIS**

NO.	BY	DATE	REVISION

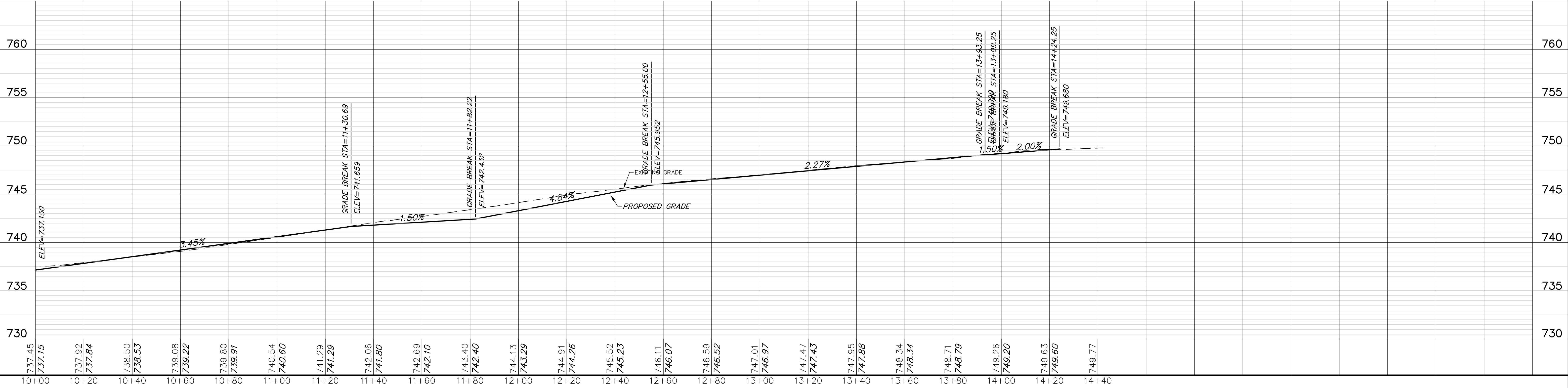
FILE	SHEET NUMBER:
DRAWN BY: GHA	GHA PROJECT #
DATE: 05.04.21	5241.212
CHECKED BY: TAR	SCALE
DATE: 05.04.21	AS NOTED
	OF 25 SHEETS

6/23/2021 11:21 AM  
 C:\PROJECTS\2021\BIRCHWOOD PARK IMPROVEMENTS\ENGINEERING\241212.PLT  
 6/23/2021 11:21 AM



- LEGEND**
- TOP OF CURB FLOW LINE
  - PROPOSED SPOT ELEVATION
  - CONTOUR
  - STRUCTURE ADJUSTMENT
  - SUMMITS
  - SLOPES
  - SWALES
  - OVERLAND FLOW ROUTE
  - EXISTING STORM SEWER
  - EXISTING SANITARY SEWER
  - EXISTING WATERMAIN
  - PROPOSED STORM SEWER
  - PROPOSED SANITARY SEWER
  - PROPOSED WATERMAIN
- EXISTING    PROPOSED**
- STORM MANHOLE
  - STORM CATCHBASIN
  - STORM INLET
  - FLARED END SECTION
  - SANITARY MANHOLE
  - SIGN

**PEREGRINE DRIVE**



**GHA GEWALT HAMILTON ASSOCIATES, INC.**  
 625 Forest Edge Drive ■ Vernon Hills, IL. 60061  
 TEL 847.478.9700 ■ FAX 847.478.9701

**COPYRIGHT NOTICE**  
 This drawing is the property of Gewalt-Hamilton Assoc., Inc. and is not to be used for any purpose other than the specific project and site named herein, and cannot be reproduced in any manner without the express written permission from Gewalt-Hamilton Associates, Inc.

**GRADING AND UTILITY PLAN (STA. 10+00 TO 14+00)**

**BIRCHWOOD PARK IMPROVEMENTS  
 PALATINE PARK DISTRICT  
 435 W. ILLINOIS AVENUE, PALATINE, ILLINOIS**

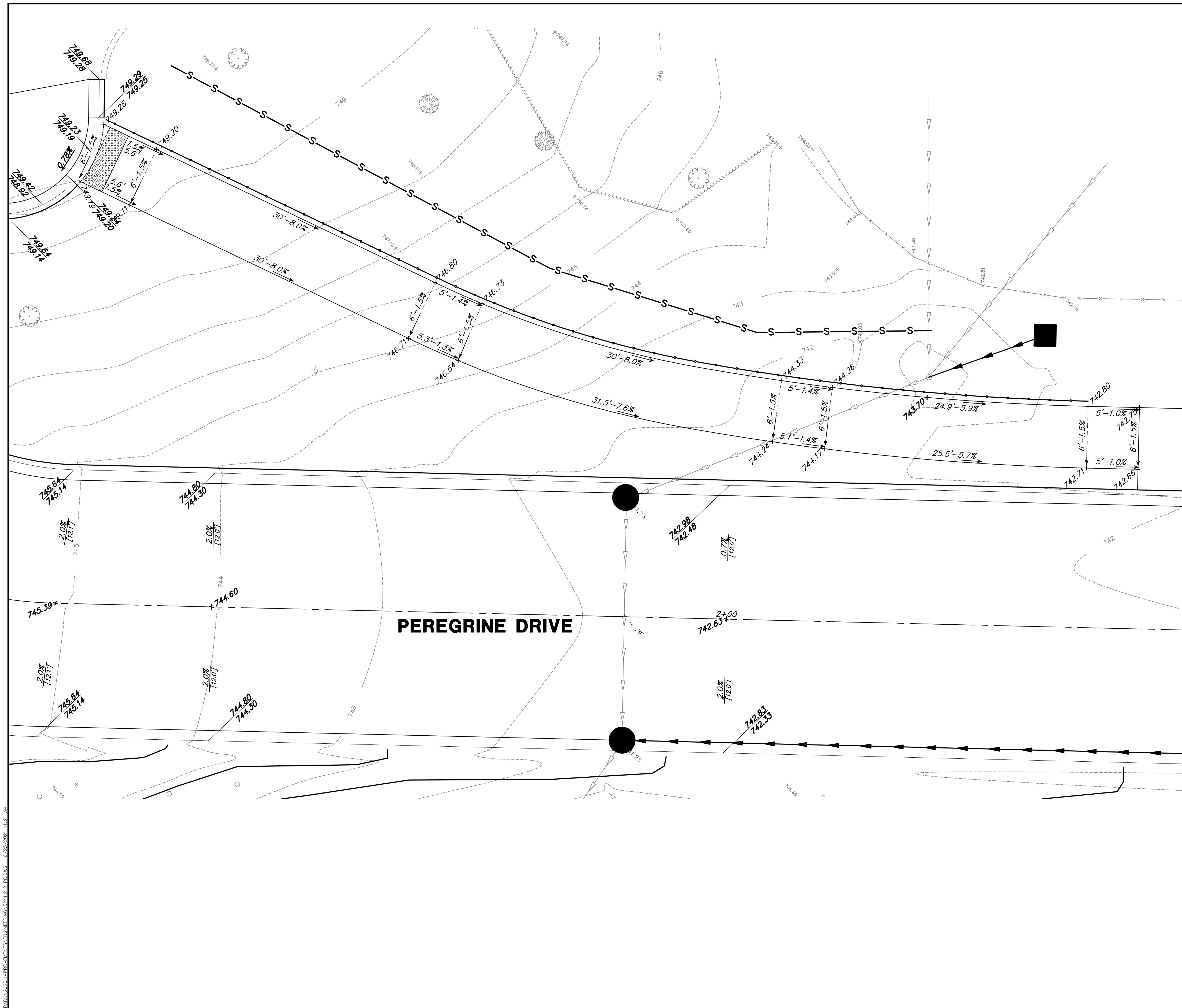
NO.	BY	DATE	REVISION

FILE		
DRAWN BY: GHA	GHA PROJECT #	
DATE: 05.04.21	5241.212	
CHECKED BY: TAR	SCALE	
DATE: 05.04.21	AS NOTED	

SHEET NUMBER:  
**11**  
 OF 25 SHEETS

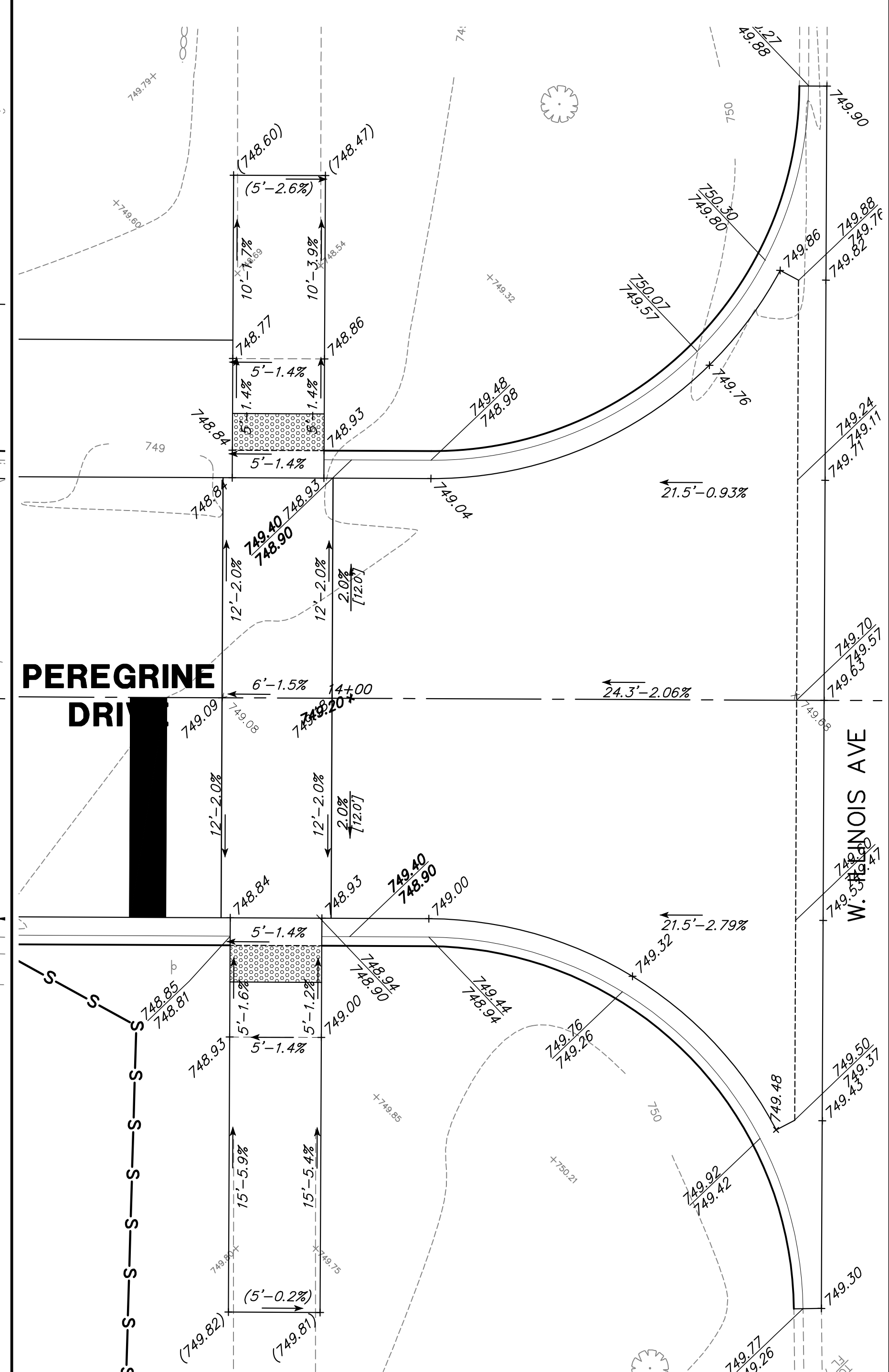
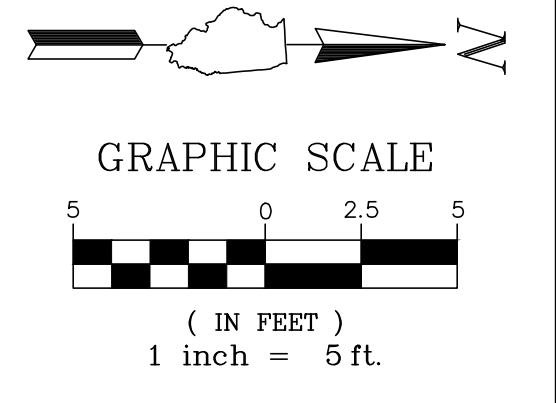






**LEGEND**

- TOP OF CURB FLOW LINE
- PROPOSED SPOT ELEVATION
- CONTOUR
- STRUCTURE ADJUSTMENT
- SUMMITS
- SLOPES
- SWALES
- OVERLAND FLOW ROUTE



**GHA GEWALT HAMILTON ASSOCIATES, INC.**  
 625 Forest Edge Drive ■ Vernon Hills, IL. 60061  
 TEL 847.478.9700 ■ FAX 847.478.9701

**COPYRIGHT NOTICE**  
 This drawing is the property of Gewalt-Hamilton Assoc., Inc. and is not to be used for any purpose other than the specific project and site named herein, and cannot be reproduced in any manner without the express written permission from Gewalt-Hamilton Associates, Inc.

**GRADING ENLARGEMENT DETAILS**  
**BIRCHWOOD PARK IMPROVEMENTS**  
**PALATINE PARK DISTRICT**  
**435 W. ILLINOIS AVENUE, PALATINE, ILLINOIS**

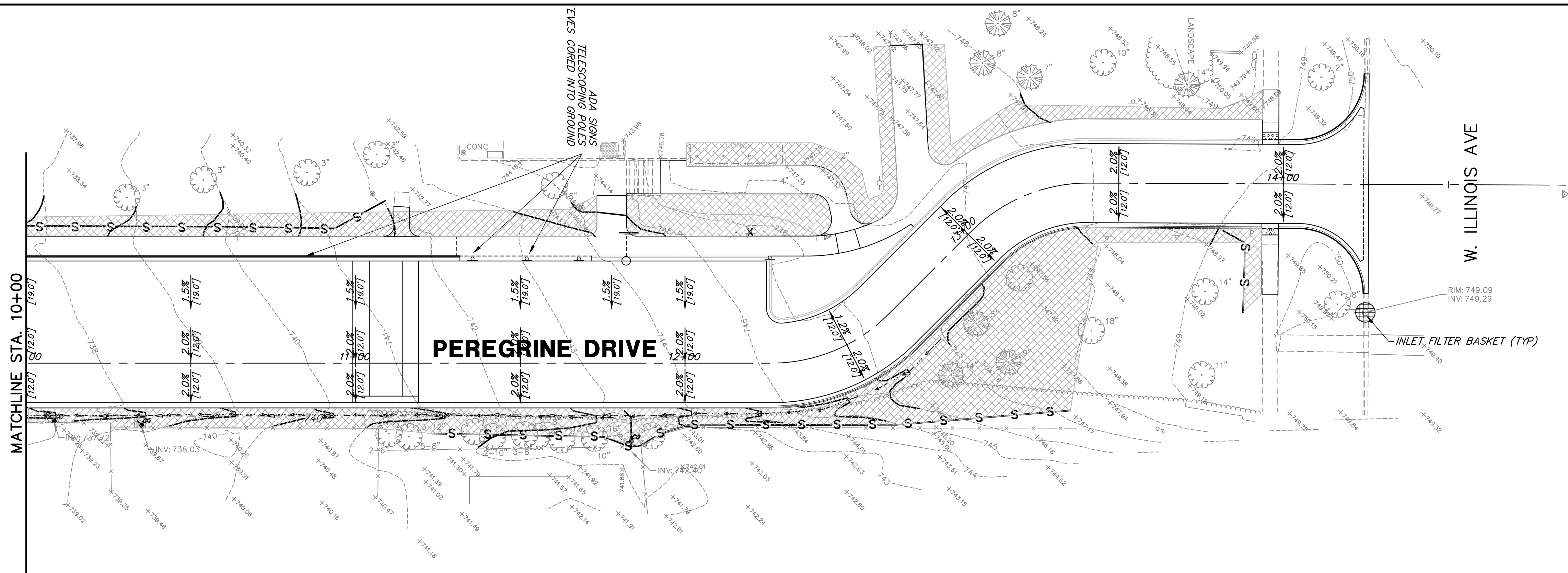
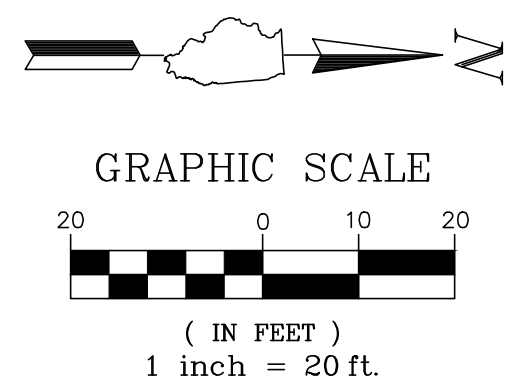
NO.	BY	DATE	REVISION	NO.	BY	DATE	REVISION

FILE		SHEET NUMBER:	<b>13</b>
DRAWN BY: GHA	GHA PROJECT #		
DATE: 05.04.21	5241.212		
CHECKED BY: TAR	SCALE:		
DATE: 05.04.21	1"=5'		
			OF 25 SHEETS

© 2021 GHA GEWALT HAMILTON ASSOCIATES, INC. BIRCHWOOD PARK IMPROVEMENTS ENGINEERING 5/24/21 2:17 PM 6/23/2021 11:21 AM







- SESC LEGEND**
- TOPSOIL FURNISH AND PLACE, VARIABLE DEPTH, 6" MIN. SEEDING, CLASS 7
  - EROSION CONTROL BLANKET NAG S75 (4:1 SLOPES)
  - EROSION CONTROL BLANKET NAG S150 (3:1 SLOPES OR STEEPER)
  - STONE RIP-RAP
  - SILT FENCE INSTALLATION
  - CONSTRUCTION FENCE INSTALLATION
  - STORM SEWER INLET PROTECTION:  
 - INLET FILTER BASKET  
 - INLET FILTER BASKET & COIR LOG
  - GEO-RIDGE DITCH CHECK
  - TRIANGULAR SILT DIKE
  - COIR LOG
  - PORTABLE RESTROOM FACILITY
  - CONCRETE WASHOUT

MATCHLINE STA. 10+00

**PEREGRINE DRIVE**

W. ILLINOIS AVE

INLET FILTER BASKET (TYP)

**GHA GEWALT HAMILTON ASSOCIATES, INC.**  
 625 Forest Edge Drive ■ Vernon Hills, IL. 60061  
 TEL 847.478.9700 ■ FAX 847.478.9701

COPYRIGHT NOTICE  
 This drawing is the property of Gevalt-Hamilton Assoc., Inc. and is not to be used for any purpose other than the specific project and site named herein, and cannot be reproduced in any manner without the express written permission from Gevalt-Hamilton Associates, Inc.

**SOIL EROSION AND SEDIMENT CONTROL PLAN**  
**BIRCHWOOD PARK IMPROVEMENTS**  
**PALATINE PARK DISTRICT**  
**435 W. ILLINOIS AVENUE, PALATINE, ILLINOIS**

NO.	BY	DATE	REVISION	NO.	BY	DATE	REVISION

FILE	
DRAWN BY: GHA	GHA PROJECT #
DATE: 05.04.21	5241.212
CHECKED BY: TAR	SCALE:
DATE: 05.04.21	1"=20'

SHEET NUMBER:  
**15**  
 OF 25 SHEETS

© 2020 GHA GEWALT HAMILTON ASSOCIATES, INC. BIRCHWOOD PARK IMPROVEMENTS ENGINEERING 5/24/21 212 PR DWG 6/23/2021 11:22 AM





**GENERAL NOTES**

- ALL CONSTRUCTION SHALL BE PERFORMED ACCORDING TO THE ILLINOIS DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" LATEST EDITION, THE "SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS" LATEST EDITION, THE "STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS" LATEST EDITION, THE ILLINOIS PLUMBING CODE, THE DETAILS IN THESE PLANS, THE CONTRACT DOCUMENTS, AND APPLICABLE REQUIREMENTS OF THE ILLINOIS DEPARTMENT OF TRANSPORTATION, THE IEPA AND ORDINANCES OF AUTHORITIES HAVING JURISDICTION AND ALL ADDENDA THERETO.
- EASEMENTS FOR THE EXISTING UTILITIES, BOTH PUBLIC AND PRIVATE AND UTILITIES WITHIN PUBLIC RIGHTS-OF-WAY ARE SHOWN ON THE PLANS ACCORDING TO AVAILABLE RECORDS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE EXACT LOCATION IN THE FIELD OF THESE UTILITY LINES AND THEIR PROTECTION FROM DAMAGE DUE TO CONSTRUCTION OPERATIONS. IF EXISTING UTILITY LINES OF ANY NATURE ARE ENCOUNTERED WHICH CONFLICT WITH NEW CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY SO THAT THE CONFLICT MAY BE RESOLVED.
- WHENEVER, DURING CONSTRUCTION OPERATIONS, ANY LOOSE MATERIAL IS DEPOSITED IN THE FLOW LINE OF GUTTERS, DRAINAGE STRUCTURES, DITCHES, ETC. SUCH THAT THE NATURAL FLOW LINE OF WATER IS OBSTRUCTED, THE LOOSE MATERIAL WILL BE REMOVED AT THE CLOSE OF EACH WORKING DAY. AT THE CONCLUSION OF CONSTRUCTION OPERATIONS, ALL DRAINAGE STRUCTURES AND FLOW LINES SHALL BE FREE FROM DIRT AND DEBRIS. THIS WORK SHALL BE CONSIDERED INCLUDED IN THE CONTRACT. THE CONTRACTOR'S FAILURE TO PROVIDE THE ABOVE WILL PRECLUDE ANY POSSIBLE ADDED COMPENSATION REQUESTED DUE TO DELAYS OR UNSUITABLE MATERIALS CREATED AS A RESULT THEREOF.
- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS AFFECTING THEIR WORK WITH THE ACTUAL CONDITIONS AT THE JOB SITE PRIOR TO ORDERING MATERIALS. IN ADDITION, THE CONTRACTOR MUST VERIFY THE LINE AND GRADES. IF THERE ARE ANY DISCREPANCIES FROM WHAT IS SHOWN ON THE CONSTRUCTION PLANS, STANDARD SPECIFICATIONS AND/OR SPECIAL DETAILS, THE CONTRACTOR SHALL SECURE WRITTEN INSTRUCTION FROM THE ENGINEER PRIOR TO PROCEEDING WITH ANY PART OF THE WORK AFFECTED BY OMISSION OR DISCREPANCIES. FAILING TO SECURE SUCH INSTRUCTION, THE CONTRACTOR WILL BE CONSIDERED TO HAVE PROCEEDED AT HIS/HER OWN RISK AND EXPENSE AND NO ADDITIONAL COMPENSATION WILL BE PROVIDED FOR ANY COSTS INCURRED..
- ALL PAVEMENT DIMENSIONS ARE SHOWN TO EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.
- WHERE SECTION OR SUBSECTION MONUMENTS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE THE MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL CAREFULLY PRESERVE ALL PROPERTY MARKS AND MONUMENTS UNTIL THE OWNER, AUTHORIZED SURVEYOR OR AGENT HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION.
- THE CONTRACTOR SHALL NOTIFY THE ENGINEER AT LEAST 72 HOURS PRIOR TO BEGINNING WORK.
- IF DURING CONSTRUCTION THE CONTRACTOR ENCOUNTERS OR OTHERWISE BECOMES AWARE OF ANY SEWERS OR UNDERDRAINS OTHER THAN THOSE SHOWN ON THE PLANS, HE/SHE SHALL INFORM THE ENGINEER, WHO SHALL DIRECT THE WORK NECESSARY TO MAINTAIN OR REPLACE THE FACILITIES IN SERVICE AND TO PROTECT THEM FROM DAMAGE DURING CONSTRUCTION IF MAINTAINED. EXISTING FACILITIES TO BE MAINTAINED THAT ARE DAMAGED BECAUSE OF NON-COMPLIANCE WITH THIS PROVISION SHALL BE REPLACED AT THE CONTRACTOR'S OWN EXPENSE.
- THE CONTRACTOR SHALL PROVIDE TEMPORARY TOILET FACILITIES AND HAND SANITIZING STATIONS FOR THE USE OF ALL THE CONTRACTORS PERSONNEL EMPLOYED ON THE WORK SITE. THE FACILITIES SHALL BE MAINTAINED IN PROPER SANITARY CONDITION THROUGHOUT THE PROJECT. THE LOCATION OF THE TEMPORARY FACILITIES SHALL BE APPROVED BY THE ENGINEER.
- THE CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH THE NPDES PERMIT AND SWPPP MANUAL. IF NO NPDES PERMIT OR SWPPP MANUAL IS NEEDED FOR THE PROJECT THE CONTRACTOR SHALL PERFORM SOIL EROSION SEDIMENT CONTROL BEST PRACTICES OR AS DIRECTED BY THE OWNER TO PREVENT ILLICIT DISCHARGES FROM THE SITE.

**UTILITY NOTES**

- UNDERGROUND WORK SHALL INCLUDE TRENCHING, DISPOSAL OF EXCESS MATERIAL, DEWATERING, INSTALLATION OF PIPE, CASTINGS, STRUCTURES, BACKFILLING OF TRENCHES AND COMPACTION, AND TESTING AS SHOWN ON THE CONSTRUCTION PLANS. FITTINGS AND ACCESSORIES NECESSARY TO COMPLETE THE WORK MAY NOT BE SPECIFIED BUT SHALL BE CONSIDERED AS INCLUDED TO THE COST OF THE CONTRACT. ALL SEWER SHALL BE INSTALLED USING A LASER AND BEGIN AT THE DOWNSTREAM END.
- ALL CONNECTIONS TO EXISTING OR DISSIMILAR STORM/SANITARY LINES SHALL BE DONE WITH STAINLESS STEEL NON-SHEAR COUPLINGS.
- STONE BEDDING AND BACKFILL SHALL BE OMITTED FOR A DISTANCE OF 15 FEET UP AND DOWNSTREAM OF SEWERS DRAINING TO OR FROM PONDS OR STREAMS. THE REPLACED BEDDING SHALL BE SILTY CLAY SOIL MECHANICALLY COMPACTED TO 90% MODIFIED PROCTOR DENSITY. THE USE OF PERMEABLE SOILS WILL NOT BE PERMITTED.

**PROJECT SPECIFIC NOTES**

- THE CONTRACTOR SHALL PROVIDE AS-BUILT DRAWINGS THAT INCLUDE; CRITICAL SPOT GRADES SUCH AS OVERFLOW ELEVATIONS, SPOT ELEVATIONS NEAR ENTRANCES, SPOT ELEVATIONS ALONG THE DESIGNATED ADA ROUTE, SUFFICIENT INFORMATION SUCH THAT THE ENGINEER MAY VERIFY DETENTION VOLUMES, RIM AND INVERT ELEVATIONS OF ALL SEWERS, RIM AND TOP OF PIPE ELEVATIONS OF ALL WATER MAIN, LOCATIONS OF ALL INSTALLED UNDERGROUND UTILITIES, LOCATIONS OF ALL BURIED BENDS AND FITTINGS AND ALL FIELD CHANGES FROM THE APPROVED DRAWINGS.
- ALL WORK PERFORMED UNDER THIS CONTRACT SHALL BE GUARANTEED BY THE CONTRACTOR AND HIS SURETY FOR A PERIOD OF 12 MONTHS FROM THE DATE OF INITIAL ACCEPTANCE OF THE WORK BY THE OWNER AGAINST ALL DEFECTS IN MATERIALS AND WORKMANSHIP OF WHATEVER NATURE.
- ALL CONSTRUCTION WILL BE INSPECTED BY THE OWNER'S REPRESENTATIVE. ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE MUNICIPALITY AS WELL AS THE STANDARD SPECIFICATIONS.
- THE SEWER AND WATER CONTRACTOR SHALL BE REQUIRED TO BE LICENSED AND BONDED WITH THE VILLAGE OF PALATINE BEFORE WORK IS STARTED.
- CONTRACTOR SHALL NOTIFY THE VILLAGE OF PALATINE (847-202-6963) AND THE PROJECT ENGINEER (847-478-9700) AT LEAST 72 HOURS PRIOR TO BEGINNING ANY WORK ON THIS PROJECT.
- THE CONTRACTOR SHALL INDEMNIFY THE OWNER, ENGINEER, THE MUNICIPALITY AND THEIR AGENTS, FROM ALL LIABILITY INVOLVED IN CONSTRUCTION, INSTALLATION AND TESTING OF THE WORK ON THIS PROJECT.
- THE CONTRACTOR MUST CARRY INSURANCE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS. ALL OFFICIALS, EMPLOYEES AND AGENTS OF GEWALT HAMILTON ASSOCIATES MUST BE LISTED AS ADDITIONAL INSURED.
- ALL ELEVATIONS ARE ON NAVD 88 VERTICAL DATUM.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF ALL TRAFFIC CONTROL TO ADEQUATELY INFORM AND PROTECT THE PUBLIC OF ALL CONSTRUCTION OPERATIONS.
- STOCKPILING MATERIAL WITHIN THE 100 YEAR FLOOD PLAIN AND OR THE FLOODWAY IS STRICTLY PROHIBITED
- PRIOR TO PLACEMENT OF FABRIC AND STONE, THE SUBGRADE SHALL BE PROOF-ROLLED IN THE PRESENCE OF THE ENGINEER. PROOF-ROLLING SHALL BE DONE USING A THREE AXLE DUMP TRUCK TOGETHER WITH LOAD WEIGHING AT LEAST TWENTY-FIVE (25) TONS. THE LOAD SHALL BE UNIFORMLY PLACED IN THE DUMP BODY. ALL DEFICIENCIES SHALL BE REPAIRED AND RE-PROOF-ROLLED UNTIL FOUND ACCEPTABLE TO THE ENGINEER.
- CRUSHED CONCRETE IS NOT PERMITTED FOR USE ON THE PROJECT UNLESS PRIOR WRITTEN NOTICE IS GIVEN BY THE ENGINEER.
- ALL STONE USED ON THE PROJECT SHALL BE CRUSHED UNLESS SPECIFICALLY NOTED OTHERWISE.
- ALL CONCRETE SHALL HAVE A LIGHT BROOM FINISH APPLIED WITHIN 1 HOUR OF FINAL STRIKING.
- ALL CONCRETE SHALL CONSIST OF PORTLAND CEMENT CONCRETE MEETING REQUIREMENTS OF SECTION 1020. ALL SIDEWALKS, CURBS AND POST FOUNDATIONS SHALL BE CLASS SI 3,500 PSI @ 14 DAYS. ALL PAVEMENT SHALL BE CLASS PV 3,500 PSI @ 14 DAYS. WHERE NOTED ON THE PLANS HIGH EARLY CONCRETE SHALL BE CLASS PV TYPE III 3,500 PSI CONCRETE @ 3 DAYS. ALL CONCRETE REQUIRING A CURE TIME FASTER THAN 3 DAYS SHALL HAVE A MIX DESIGN SUBMITTED TO THE ENGINEER FOR APPROVAL. WHEN REQUIRED BY THE MUNICIPALITY, FLY ASH SHALL NOT BE USED IN THE MIX DESIGN. SLUMP SHALL BE 2-4" AND AIR CONTENT SHALL BE BETWEEN 5-8% UNLESS MODIFIED BY ARTICLE 1020.04.
- ALL CONCRETE SHALL HAVE A WHITE, IDOT TYPE 3 CURING COMPOUND APPLIED TO THE SURFACE WITHIN 1 HOUR OF FINAL STRIKING AT THE MANUFACTURER RECOMMENDED APPLICATION RATE.
- 3/4" THICK PRE-MOLDED FIBER EXPANSION JOINTS WITH 2 , 3/4" x 18" PLAIN ROUND, STEEL DOWEL BARS SHALL BE INSTALLED IN ALL CURBS AT (45') FORTY-FIVE FOOT INTERVALS AND AT ALL P.C.'S, P.T.'S AND CURB RETURNS. ALTERNATE ENDS OF THE DOWEL BARS SHALL BE GREASED AND FITTED WITH METAL EXPANSION TUBES. ALL EXPANSION JOINTS MUST BE FREE OF CONCRETE FOR FULL DEPTH. CONTRACTION JOINTS SHALL BE TOOLED AT 15' INTERVALS.
- UNLESS OTHERWISE NOTED ON THE PLANS WHENEVER NEW CONCRETE ABUTS EXISTING/ OR NEW CONCRETE SET A 1/2" THICK PRE-MOLDED FIBER EXPANSION JOINT AND DOWEL WITH SMOOTH 12" #4 BARS @ 24" O.C. THIS INCLUDES CONCRETE POURED ADJACENT TO EXISTING SIDEWALKS, CURBS AND BUILDING. THE DOWEL BARS SHOULD BE 4" INTO EXISTING CONCRETE WITH 8" EXTENDING INTO NEW CONCRETE.
- ALL DOWEL BARS AND TIE BARS SHALL BE EPOXY COATED UNLESS NOTED OTHERWISE.
- ALL PAVEMENT AND BUILDING SUBGRADE SHALL BE COMPACTED TO 95% MODIFIED PROCTOR DENSITY (ASTM D-1557). ALL SUBGRADE IN LAWN AREAS SHALL BE COMPACTED TO 90% MODIFIED PROCTOR DENSITY (ASTM D-1557). ALL TOPSOIL AND SUBGRADE 6" BELOW TOPSOIL SHALL BE COMPACTED TO 80% STANDARD PROCTOR DENSITY (ASTM D-698)
- SPREAD SCREENED TOPSOIL ON ALL DISTURBED AREAS AND PROPOSED GREEN AREAS. TOPSOIL SHALL COMPLY WITH REQUIREMENTS OF ARTICLE 1081.05.
- ALL SIGNAGE SHALL BE INSTALLED IN ACCORDANCE WITH THE MOST RECENT VERSION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND ILLINOIS SUPPLEMENT OR ILLINOIS DEPARTMENT OF TRANSPORTATION DETAILS.
- ALL SIGNAGE NOT ATTACHED TO SIGNAL OR LIGHTING POLES SHALL BE MOUNTED ON TELESCOPING STEEL SIGN SUPPORTS WITH BREAKAWAY BASES IN ACCORDANCE WITH SECTION 728.
- ALL SIGNAGE SHALL HAVE TYPE ZZ SHEETING.

**SPECIAL PROVISIONS**

CLEAN CONSTRUCTION AND DEMOLITION DEBRIS (CCDD) MATERIAL DISPOSAL

WORK UNDER THIS ITEM SHALL BE PERFORMED IN COMPLIANCE WITH THE ILLINOIS ENVIRONMENTAL PROTECTION AGENCY (IEPA) GUIDELINES IN EFFECT AT THE TIME OF CONSTRUCTION. THE CONTRACTOR WILL BE REQUIRED TO MAKE ALL ARRANGEMENTS FOR COORDINATION AND SUBMISSION OF THE NECESSARY DOCUMENTS WITH THEIR CHOSEN CCDD OR OTHER SUITABLE DISPOSAL FACILITY. WRITTEN CONFIRMATION OF PRELIMINARY APPROVAL MUST BE PROVIDED FROM THE DISPOSAL FACILITY AND CONFIRMED BY THE OWNER AS ACCEPTABLE. ALL SURPLUS, CLEAN MATERIAL GENERATED FROM THE CONTRACTOR'S ACTIVITIES MUST BE DISPOSED OF AT AN IEPA PERMITTED CCDD OR OTHERWISE ACCEPTABLE FACILITY. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING DOCUMENTATION TO THE OWNER FOR EACH LOAD HAULED OFF-SITE SHOWING THE QUANTITY OF MATERIAL AND THE LOCATION THE MATERIAL WAS DISPOSED OF. NO EXTRA COMPENSATION WILL BE ALLOWED TO THE CONTRACTOR FOR ANY EXPENSES INCURRED COMPLYING WITH THESE REQUIREMENTS INCLUDING BUT NOT LIMITED TO: DELAYS, INCONVENIENCE, OR INTERRUPTIONS IN THE WORK RESULTING FROM COMPLIANCE WITH THESE REQUIREMENTS. ALL COSTS ASSOCIATED WITH MATERIAL TESTING AND DISPOSAL SHALL BE INCLUDED IN THE COST OF THE CONTRACT.

AS-BUILT DOCUMENTS

THE CONTRACTOR IS REQUIRED TO SUBMIT "AS-BUILT PLANS", i.e. - RECORD DRAWINGS OF ALL PROJECTS THAT INCLUDE THE INSTALLATION OF STORM SEWER, SANITARY SEWER, WATERMAIN AND WATER SERVICES, STORMWATER MANAGEMENT FACILITIES AND SITE GRADING. THE EXISTING ELEVATIONS SHALL BE LINED-THROUGH AND THE AS-CONSTRUCTED GRADES WRITTEN NEXT TO THEM. THE "AS-BUILT PLANS" MUST BE SIGNED AND SEALED BY A REGISTERED LAND SURVEYOR AND/OR A REGISTERED PROFESSIONAL ENGINEER AND SUBMITTED TO GHA FOR REVIEW. THE AS-BUILT PLANS SHALL FURTHER:

- SHOW THE RIM AND INVERT ELEVATIONS FOR ALL MANHOLES, CATCH BASINS, INLETS AND FLARED END SECTIONS.
- WHEN SURFACE DETENTION IS PROVIDED ON A PAVED SURFACE SUFFICIENT AS-CONSTRUCTED GRADES SHALL BE PROVIDED TO CONFIRM THAT THE REQUIRED DETENTION VOLUME AND HIGH-WATER ELEVATION WAS ACHIEVED.
- WHEN SURFACE DETENTION IS PROVIDED IN A DETENTION OR RETENTION POND, SUFFICIENT AS-CONSTRUCTED GRADES SHALL BE PROVIDED TO CONFIRM THAT THE REQUIRED DETENTION VOLUME WAS ACHIEVED. THE AS-CONSTRUCTED GRADES SHALL INCLUDE THE TOP OF THE BERM AND EMERGENCY OVERFLOW.
- RESTRICTOR STRUCTURES SHALL BE LOCATED AND THE SIZE, TYPE AND ELEVATION OF THE RESTRICTOR SHALL BE PROVIDED ALONG WITH ANY INTERIOR OVERFLOW WEIRS, LOW-FLOW NOTCHES, ETC.

PARTICULAR CARE SHALL BE GIVEN TO INSTALLATION OF ALL IMPROVEMENTS WITHIN THE ADA ROUTES INCLUDING RAMPS, LEVEL LANDINGS, TRANSITION PANELS, CURBS AND TACTILE SURFACES. THE CONTRACTOR SHALL ENSURE THAT ALL CROSS SLOPES AND LANDINGS DO NOT EXCEED 2% EXCEPT IN CHICAGO WHICH CANNOT EXCEED 1.56%. RUNNING SLOPES ON ADA ROUTES GREATER THAN 5% REQUIRE HANDRAILS. THE CONTRACTOR SHALL INFORM THE ENGINEER WHEN THE STATED SLOPES ARE EXCEEDED IN THE FIELD

© 2020 GHA ASSOCIATES, INC. ALL RIGHTS RESERVED. PROJECT NO. 2019-001. IMPROVEMENTS ENGINEERING 2021-217-01.DWG 6/23/2021 11:22 AM



625 Forest Edge Drive ■ Vernon Hills, IL. 60061  
TEL 847.478.9700 ■ FAX 847.478.9701

**COPYRIGHT NOTICE**  
This drawing is the property of Gewalt-Hamilton Assoc., Inc. and is not to be used for any purpose other than the specific project and site named herein, and cannot be reproduced in any manner without the express written permission from Gewalt-Hamilton Associates, Inc.

**GENERAL NOTES**  
**BIRCHWOOD PARK IMPROVEMENTS**  
**PALATINE PARK DISTRICT**  
**435 W. ILLINOIS AVENUE, PALATINE, ILLINOIS**

										FILE		SHEET NUMBER: <b>17</b> OF 25 SHEETS
										DRAWN BY: GHA DATE: 05.04.21		
										CHECKED BY: TAR DATE: 05.04.21		SCALE: N.A.
NO.	BY	DATE	REVISION	NO.	BY	DATE	REVISION					



1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE APPLICABLE SECTIONS OF THE FOLLOWING, EXCEPT AS MODIFIED HEREIN OR ON THE PLANS:  
 \* STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (LATEST EDITION), BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION (IDOT SS) FOR ALL IMPROVEMENTS EXCEPT SANITARY SEWER AND WATER MAIN CONSTRUCTION;  
 \* STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS, LATEST EDITION (SSWS) FOR SANITARY SEWER AND WATER MAIN CONSTRUCTION;  
 \* VILLAGE OF PALATINE MUNICIPAL CODE;  
 \* THE METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO (MWRD) WATERSHED MANAGEMENT ORDINANCE AND TECHNICAL GUIDANCE MANUAL;  
 \* IN CASE OF CONFLICT BETWEEN THE APPLICABLE ORDINANCES NOTED, THE MORE STRINGENT SHALL TAKE PRECEDENCE AND SHALL CONTROL ALL CONSTRUCTION.

**B. NOTIFICATIONS**

1. THE MWRD LOCAL SEWER SYSTEMS SECTION FIELD OFFICE MUST BE NOTIFIED AT LEAST TWO (2) WORKING DAYS PRIOR TO THE COMMENCEMENT OF ANY WORK (CALL 708-588-4055).
2. THE VILLAGE OF PALATINE ENGINEERING DEPARTMENT AND PUBLIC MUST BE NOTIFIED AT LEAST 24 HOURS PRIOR TO THE START OF CONSTRUCTION AND PRIOR TO EACH PHASE OF WORK. CONTRACTOR SHALL DETERMINE ITEMS REQUIRING INSPECTION PRIOR TO START OF CONSTRUCTION OR EACH WORK PHASE.
3. THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES PRIOR TO BEGINNING CONSTRUCTION FOR THE EXACT LOCATIONS OF UTILITIES AND FOR THEIR PROTECTION DURING CONSTRUCTION. IF EXISTING UTILITIES ARE ENCOUNTERED THAT CONFLICT IN LOCATION WITH NEW CONSTRUCTION, IMMEDIATELY NOTIFY THE ENGINEER SO THAT THE CONFLICT CAN BE RESOLVED. CALL J.U.L.I.E. AT 1-800-892-0123.

**C. GENERAL NOTES**

1. ALL ELEVATIONS SHOWN ON PLANS REFERENCE THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88). CONVERSION FACTOR IS  $N/A$  FT.
2. MWRD, THE MUNICIPALITY AND THE OWNER OR OWNER'S REPRESENTATIVE SHALL HAVE THE AUTHORITY TO INSPECT, APPROVE, AND REJECT THE CONSTRUCTION IMPROVEMENTS.
3. THE CONTRACTOR(S) SHALL INDEMNIFY THE OWNER, ENGINEER, MUNICIPALITY, MWRD, AND THEIR AGENTS, ETC., FROM ALL LIABILITY INVOLVED WITH THE CONSTRUCTION, INSTALLATION, OR TESTING OF THIS WORK ON THE PROJECT.
4. THE PROPOSED IMPROVEMENTS MUST BE CONSTRUCTED IN ACCORDANCE WITH THE ENGINEERING PLANS AS APPROVED BY MWRD AND THE MUNICIPALITY UNLESS CHANGES ARE APPROVED BY MWRD, THE MUNICIPALITY, OR AUTHORIZED AGENT. THE CONSTRUCTION DETAILS, AS PRESENTED ON THE PLANS, MUST BE FOLLOWED. PROPER CONSTRUCTION TECHNIQUES MUST BE FOLLOWED ON THE IMPROVEMENTS INDICATED ON THE PLANS.
5. THE LOCATION OF VARIOUS UNDERGROUND UTILITIES WHICH ARE SHOWN ON THE PLANS ARE FOR INFORMATION ONLY AND REPRESENT THE BEST KNOWLEDGE OF THE ENGINEER. VERIFY LOCATIONS AND ELEVATIONS PRIOR TO BEGINNING THE CONSTRUCTION OPERATIONS.
6. ANY EXISTING PAVEMENT, SIDEWALK, DRIVEWAY, ETC., DAMAGED DURING CONSTRUCTION OPERATIONS AND NOT CALLED FOR TO BE REMOVED SHALL BE REPLACED AT THE EXPENSE OF THE CONTRACTOR.
7. MATERIAL AND COMPACTION TESTING SHALL BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF THE MUNICIPALITY, MWRD, AND OWNER.
8. THE UNDERGROUND CONTRACTOR SHALL MAKE ALL NECESSARY ARRANGEMENTS TO NOTIFY ALL INSPECTION AGENCIES.
9. ALL NEW AND EXISTING UTILITY STRUCTURES ON SITE AND IN AREAS DISTURBED DURING CONSTRUCTION SHALL BE ADJUSTED TO FINISH GRADE PRIOR TO FINAL INSPECTION.
10. RECORD DRAWINGS SHALL BE KEPT BY THE CONTRACTOR AND SUBMITTED TO THE ENGINEER AS SOON AS UNDERGROUND IMPROVEMENTS ARE COMPLETED. FINAL PAYMENTS TO THE CONTRACTOR SHALL BE HELD UNTIL THEY ARE RECEIVED. ANY CHANGES IN LENGTH, LOCATION OR ALIGNMENT SHALL BE SHOWN IN RED. ALL WYES OR BENDS SHALL BE LOCATED FROM THE DOWNSTREAM MANHOLE. ALL VALVES, B-BOXES, TEES OR BENDS SHALL BE TIED TO A FIRE HYDRANT.

**D. SANITARY SEWER**

1. THE CONTRACTOR SHALL TAKE MEASURES TO PREVENT ANY POLLUTED WATER, SUCH AS GROUND AND SURFACE WATER, FROM ENTERING THE EXISTING SANITARY SEWERS.
2. A WATER-TIGHT PLUG SHALL BE INSTALLED IN THE DOWNSTREAM SEWER PIPE AT THE POINT OF SEWER CONNECTION PRIOR TO COMMENCING ANY SEWER CONSTRUCTION. THE PLUG SHALL REMAIN IN PLACE UNTIL REMOVAL IS AUTHORIZED BY THE MUNICIPALITY AND/OR MWRD AFTER THE SEWERS HAVE BEEN TESTED AND ACCEPTED.
3. DISCHARGING ANY UNPOLLUTED WATER INTO THE SANITARY SEWER SYSTEM FOR THE PURPOSE OF SEWER FLUSHING OR LINES FOR THE DEFLECTION TEST SHALL BE PROHIBITED WITHOUT PRIOR APPROVAL FROM THE MUNICIPALITY OR MWRD.
4. ALL SANITARY SEWER CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS (LATEST EDITION).
5. ALL FLOOR DRAINS SHALL DISCHARGE TO THE SANITARY SEWER SYSTEM.
6. ALL DOWNSPOUTS AND FOOTING DRAINS SHALL DISCHARGE TO THE STORM SEWER SYSTEM.
7. ALL SANITARY SEWER PIPE MATERIALS AND JOINTS (AND STORM SEWER PIPE MATERIALS AND JOINTS IN A COMBINED SEWER AREA) SHALL CONFORM TO THE FOLLOWING:

PIPE MATERIAL	PIPE SPECIFICATIONS	JOINT SPECIFICATIONS
VITRIFIED CLAY PIPE	ASTM C-700	ASTM C-425
REINFORCED CONCRETE SEWER PIPE	ASTM C-76	ASTM C-443
CAST IRON SOIL PIPE	ASTM A-74	ASTM C-564
DUCTILE IRON PIPE	ANSI A21.51	ANSI A21.11
POLYVINYL CHLORIDE (PVC) PIPE		
6-INCH TO 15-INCH DIAMETER SDR 26	ASTM D-3034	ASTM D-3212
18-INCH TO 27-INCH DIAMETER F/DY=46	ASTM F-679	ASTM D-3212
HIGH DENSITY POLYETHYLENE (HDPE)	ASTM D-3350	ASTM D-3261,F-2620 (HEAT FUSION)
	ASTM D-3035	ASTM D-3212,F-477 (GASKETED)
WATER MAIN QUALITY PVC		
4-INCH TO 36-INCH	ASTM D-2241	ASTM D-3139
4-INCH TO 12-INCH	AWWA C900	ASTM D-3139
14-INCH TO 48-INCH	AWWA C905	ASTM D-3139

THE FOLLOWING MATERIALS ARE ALLOWED ON A QUALIFIED BASIS SUBJECT TO DISTRICT REVIEW AND APPROVAL PRIOR TO PERMIT ISSUANCE. A SPECIAL CONDITION WILL BE ADDED TO THE PERMIT WHEN THE PIPE MATERIAL BELOW IS USED FOR SEWER CONSTRUCTION OR A CONNECTION IS MADE.

PIPE MATERIAL	PIPE SPECIFICATIONS	JOINT SPECIFICATIONS
POLYPROPYLENE (PP) PIPE		
12-INCH TO 24-INCH DOUBLE WALL	ASTM F-2736	D-3212, F-477
30-INCH TO 60-INCH TRIPLE WALL	ASTM F-2764	D3212, F-477

8. ALL SANITARY SEWER CONSTRUCTION (AND STORM SEWER CONSTRUCTION IN COMBINED SEWER AREAS), REQUIRES STONE BEDDING WITH STONE 1/4" TO 1" IN SIZE, WITH MINIMUM BEDDING THICKNESS EQUAL TO 1/4 THE OUTSIDE DIAMETER OF THE SEWER PIPE, BUT NOT LESS THAN FOUR (4) INCHES NOR MORE THAN EIGHT (8) INCHES. MATERIAL SHALL BE CA-7, CA-11 OR CA-13 AND SHALL BE EXTENDED AT LEAST 12" ABOVE THE TOP OF THE PIPE WHEN USING PVC.
9. NON-SHEAR FLEXIBLE-TYPE COUPLINGS SHALL BE USED IN THE CONNECTION OF SEWER PIPES OF DISSIMILAR PIPE MATERIALS.
10. ALL MANHOLES SHALL BE PROVIDED WITH BOLTED, WATERTIGHT COVERS. SANITARY LIDS SHALL BE CONSTRUCTED WITH A CONCEALED PICKHOLE AND WATERTIGHT GASKET WITH THE WORD "SANITARY" CAST INTO THE LID.
11. WHEN CONNECTING TO AN EXISTING SEWER MAIN BY MEANS OTHER THAN AN EXISTING WYE, TEE, OR AN EXISTING MANHOLE, ONE OF THE FOLLOWING METHODS SHALL BE USED:  
 a) A CIRCULAR SAW-CUT OF SEWER MAIN BY PROPER TOOLS ("SEWER-TAP" MACHINE OR SIMILAR) AND PROPER INSTALLATION OF HUBWYE SADDLE OR HUB-TEE SADDLE.  
 b) REMOVE AN ENTIRE SECTION OF PIPE (BREAKING ONLY THE TOP OF ONE BELL) AND REPLACE WITH A WYE OR TEE BRANCH SECTION.  
 c) WITH PIPE CUTTER, NEATLY AND ACCURATELY CUT OUT DESIRED LENGTH OF PIPE FOR INSERTION OF PROPER FITTING, USING "BAND SEAL" OR SIMILAR COUPLINGS TO HOLD IT FIRMLY IN PLACE.
12. WHENEVER A SANITARY/COMBINED SEWER CROSSES UNDER A WATERMAIN, THE MINIMUM VERTICAL DISTANCE FROM THE TOP OF THE SEWER TO THE BOTTOM OF THE WATERMAIN SHALL BE 18 INCHES. FURTHERMORE, A MINIMUM HORIZONTAL DISTANCE OF 10 FEET BETWEEN SANITARY/COMBINED SEWERS AND WATERMAINS SHALL BE MAINTAINED UNLESS: THE SEWER IS LAID IN A SEPARATE TRENCH, KEEPING A MINIMUM 18" VERTICAL SEPARATION; OR THE SEWER IS LAID IN THE SAME TRENCH WITH THE WATERMAIN LOCATED AT THE OPPOSITE SIDE ON A BENCH OF UNDISTURBED EARTH, KEEPING A MINIMUM 18" VERTICAL SEPARATION. IF EITHER THE VERTICAL OR HORIZONTAL DISTANCES DESCRIBED CANNOT BE MAINTAINED, OR THE SEWER CROSSES ABOVE THE WATER MAIN, THE SEWER SHALL BE CONSTRUCTED TO WATER MAIN STANDARDS OR IT SHALL BE ENCASED WITH A WATER MAIN QUALITY CARRIER PIPE WITH THE ENDS SEALED.
13. ALL EXISTING SEPTIC SYSTEMS SHALL BE ABANDONED. ABANDONED TANKS SHALL BE FILLED WITH GRANULAR MATERIAL OR REMOVED.
14. ALL SANITARY MANHOLES, (AND STORM MANHOLES IN COMBINED SEWER AREAS), SHALL HAVE A MINIMUM INSIDE DIAMETER OF 48 INCHES, AND SHALL BE CAST IN PLACE OR PRE-CAST REINFORCED CONCRETE.
15. ALL SANITARY MANHOLES, (AND STORM MANHOLES IN COMBINED SEWER AREAS), SHALL HAVE PRECAST "RUBBER BOOTS" THAT CONFORM TO ASTM C-923 FOR ALL PIPE CONNECTIONS. PRECAST SECTIONS SHALL CONSIST OF MODIFIED GROOVE TONGUE AND RUBBER GASKET TYPE JOINTS.
16. ALL ABANDONED SANITARY SEWERS SHALL BE PLUGGED AT BOTH ENDS WITH AT LEAST 2 FEET LONG NON-SHRINK CONCRETE OR MORTAR PLUG.
17. EXCEPT FOR FOUNDATION/FOOTING DRAINS PROVIDED TO PROTECT BUILDINGS, OR PERFORATED PIPES ASSOCIATED WITH VOLUME CONTROL FACILITIES, DRAIN TILES/FIELD TILES/UNDERDRAINS/PERFORATED PIPES ARE NOT ALLOWED TO BE CONNECTED TO OR TRIBUTARY TO COMBINED SEWERS, SANITARY SEWERS, OR STORM SEWERS TRIBUTARY TO COMBINED SEWERS IN COMBINED SEWER AREAS. CONSTRUCTION OF NEW FACILITIES OF THIS TYPE IS PROHIBITED; AND ALL EXISTING DRAIN TILES AND PERFORATED PIPES ENCOUNTERED WITHIN THE PROJECT AREA SHALL BE PLUGGED OR REMOVED, AND SHALL NOT BE CONNECTED TO COMBINED SEWERS, SANITARY SEWERS, OR STORM SEWERS TRIBUTARY TO COMBINED SEWERS.
18. A BACKFLOW PREVENTER IS REQUIRED FOR ALL DETENTION BASINS TRIBUTARY TO COMBINED SEWERS. REQUIRED BACKFLOW PREVENTERS SHALL BE INSPECTED AND EXERCISED ANNUALLY BY THE PROPERTY OWNER TO ENSURE PROPER OPERATION, AND ANY NECESSARY MAINTENANCES SHALL BE PERFORMED TO ENSURE FUNCTIONALITY. IN THE EVENT OF A SEWER SURCHARGE INTO AN OPEN DETENTION BASIN TRIBUTARY TO COMBINED SEWERS, THE PERMITTEE SHALL ENSURE THAT CLEAN UP AND WASH OUT OF SEWAGE TAKES PLACE WITHIN 48 HOURS OF THE STORM EVENT.

**E. EROSION AND SEDIMENT CONTROL**

1. THE CONTRACTOR SHALL INSTALL THE EROSION AND SEDIMENT CONTROL DEVICES AS SHOWN ON THE APPROVED EROSION AND SEDIMENT CONTROL PLAN.
2. EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE FUNCTIONAL PRIOR TO HYDROLOGIC DISTURBANCE OF THE SITE.
3. ALL DESIGN CRITERIA, SPECIFICATIONS, AND INSTALLATION OF EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE IN ACCORDANCE WITH THE ILLINOIS URBAN MANUAL.
4. A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN SHALL BE MAINTAINED ON THE SITE AT ALL TIMES.
5. INSPECTIONS AND DOCUMENTATION SHALL BE PERFORMED, AT A MINIMUM:  
 a) UPON COMPLETION OF INITIAL EROSION AND SEDIMENT CONTROL MEASURES, PRIOR TO ANY SOIL DISTURBANCE.  
 b) ONCE EVERY SEVEN (7) CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM EVENT WITH GREATER THAN 0.5 INCH OF RAINFALL OR LIQUID EQUIVALENT PRECIPITATION.
6. SOIL DISTURBANCE SHALL BE CONDUCTED IN SUCH A MANNER AS TO MINIMIZE EROSION. IF STRIPPING, CLEARING, GRADING, OR LANDSCAPING ARE TO BE DONE IN PHASES, THE CO-PERMITTEE SHALL PLAN FOR APPROPRIATE SOIL EROSION AND SEDIMENT CONTROL MEASURES.
7. A STABILIZED MAT OF CRUSHED STONE MEETING THE STANDARDS OF THE ILLINOIS URBAN MANUAL SHALL BE INSTALLED AT ANY POINT WHERE TRAFFIC WILL BE ENTERING OR LEAVING A CONSTRUCTION SITE. SEDIMENT OR SOIL REACHING AN IMPROVED PUBLIC RIGHT-OF-WAY, STREET, ALLEY OR PARKING AREA SHALL BE REMOVED BY SCRAPING OR STREET CLEANING AS ACCUMULATIONS WARRANT AND TRANSPORTED TO A CONTROLLED SEDIMENT DISPOSAL AREA.
8. CONCRETE WASHOUT FACILITIES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE ILLINOIS URBAN MANUAL AND SHALL BE INSTALLED PRIOR TO ANY ON SITE CONSTRUCTION ACTIVITIES INVOLVING CONCRETE.
9. MORTAR WASHOUT FACILITIES SHALL BE CONSTRUCTED IN ADDITION TO CONCRETE WASHOUT FACILITIES FOR ANY BRICK AND MORTAR BUILDING ENVELOPE CONSTRUCTION ACTIVITIES.
10. TEMPORARY DIVERSIONS SHALL BE CONSTRUCTED AS NECESSARY TO DIRECT ALL RUNOFF FROM HYDROLOGICALLY DISTURBED AREAS TO AN APPROPRIATE SEDIMENT TRAP OR BASIN. VOLUME CONTROL FACILITIES SHALL NOT BE USED AS TEMPORARY SEDIMENT BASINS.
12. DISTURBED AREAS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED SHALL BE STABILIZED WITH TEMPORARY OR PERMANENT MEASURES WITHIN SEVEN (7) DAYS.
13. ALL FLOOD PROTECTION AREAS AND VOLUME CONTROL FACILITIES SHALL, AT A MINIMUM, BE PROTECTED WITH A DOUBLE-ROW OF SILT FENCE (OR EQUIVALENT).
14. VOLUME CONTROL FACILITIES SHALL NOT BE CONSTRUCTED UNTIL ALL OF THE CONTRIBUTING DRAINAGE AREA HAS BEEN STABILIZED.
15. SOIL STOCKPILES SHALL, AT A MINIMUM, BE PROTECTED WITH PERIMETER SEDIMENT CONTROLS. SOIL STOCKPILES SHALL NOT BE PLACED IN FLOOD PROTECTION AREAS OR THEIR BUFFERS.
16. EARTHEN EMBANKMENT SIDE SLOPES SHALL BE STABILIZED WITH APPROPRIATE EROSION CONTROL BLANKET.
17. STORM SEWERS THAT ARE OR WILL BE FUNCTIONING DURING CONSTRUCTION SHALL BE PROTECTED BY APPROPRIATE SEDIMENT CONTROL MEASURES.
18. THE CONTRACTOR SHALL EITHER REMOVE OR REPLACE ANY EXISTING DRAIN TILES AND INCORPORATE THEM INTO THE DRAINAGE PLAN FOR THE DEVELOPMENT. DRAIN TILES CANNOT BE TRIBUTARY TO A SANITARY OR COMBINED SEWER. DRAIN TILES ALLOWED IN COMBINED SEWER AREA FOR GREEN INFRASTRUCTURE PRACTICES.
19. IF DEWATERING SERVICES ARE USED, ADJOINING PROPERTIES AND DISCHARGE LOCATIONS SHALL BE PROTECTED FROM EROSION AND SEDIMENTATION. DEWATERING SYSTEMS SHOULD BE INSPECTED DAILY DURING OPERATIONAL PERIODS. THE SITE INSPECTOR MUST BE PRESENT AT THE COMMENCEMENT OF DEWATERING ACTIVITIES.
20. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TRENCH DEWATERING AND EXCAVATION FOR THE INSTALLATION OF SANITARY SEWERS, STORM SEWERS, WATERMAINS AS WELL AS THEIR SERVICES AND OTHER APPURTENANCES. ANY TRENCH DEWATERING, WHICH CONTAINS SEDIMENT SHALL PASS THROUGH A SEDIMENT SETTLING POND OR EQUALLY EFFECTIVE SEDIMENT CONTROL DEVICE. ALTERNATIVES MAY INCLUDE DEWATERING INTO A SUMP PIT, FILTER BAG OR EXISTING VEGETATED UPSLOPE AREA. SEDIMENT LADEN WATERS SHALL NOT BE DISCHARGE TO WATERWAYS, FLOOD PROTECTION AREAS OR THE COMBINED SEWER SYSTEM.
21. ALL PERMANENT EROSION CONTROL PRACTICES SHALL BE INITIATED WITHIN SEVEN (7) DAYS FOLLOWING THE COMPLETION OF SOIL DISTURBING ACTIVITIES.
22. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED AND REPAIRED AS NEEDED ON A YEAR-ROUND BASIS DURING CONSTRUCTION AND ANY PERIODS OF CONSTRUCTION SHUTDOWN UNTIL PERMANENT STABILIZATION IS ACHIEVED.
23. ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN THIRTY (30) DAYS AFTER PERMANENT SITE STABILIZATION.
24. THE EROSION AND SEDIMENT CONTROL MEASURES SHOWN ON THE PLANS ARE THE MINIMUM REQUIREMENTS. ADDITIONAL MEASURES MAY BE REQUIRED, AS DIRECTED BY THE ENGINEER, SITE INSPECTOR, OR MWRD.



TECHNICAL GUIDANCE MANUAL

MWRD GENERAL NOTES

07/12/2016

STD. DWG. NO. 18

PAGE NO. 19

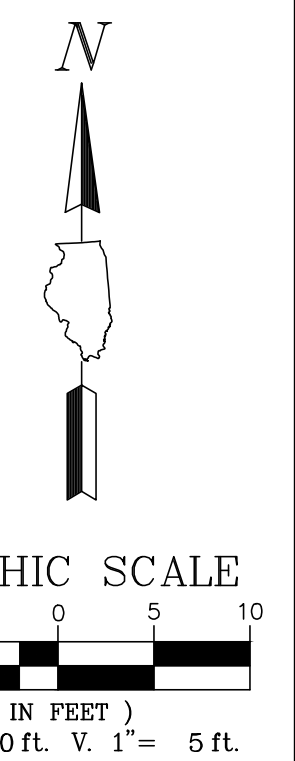
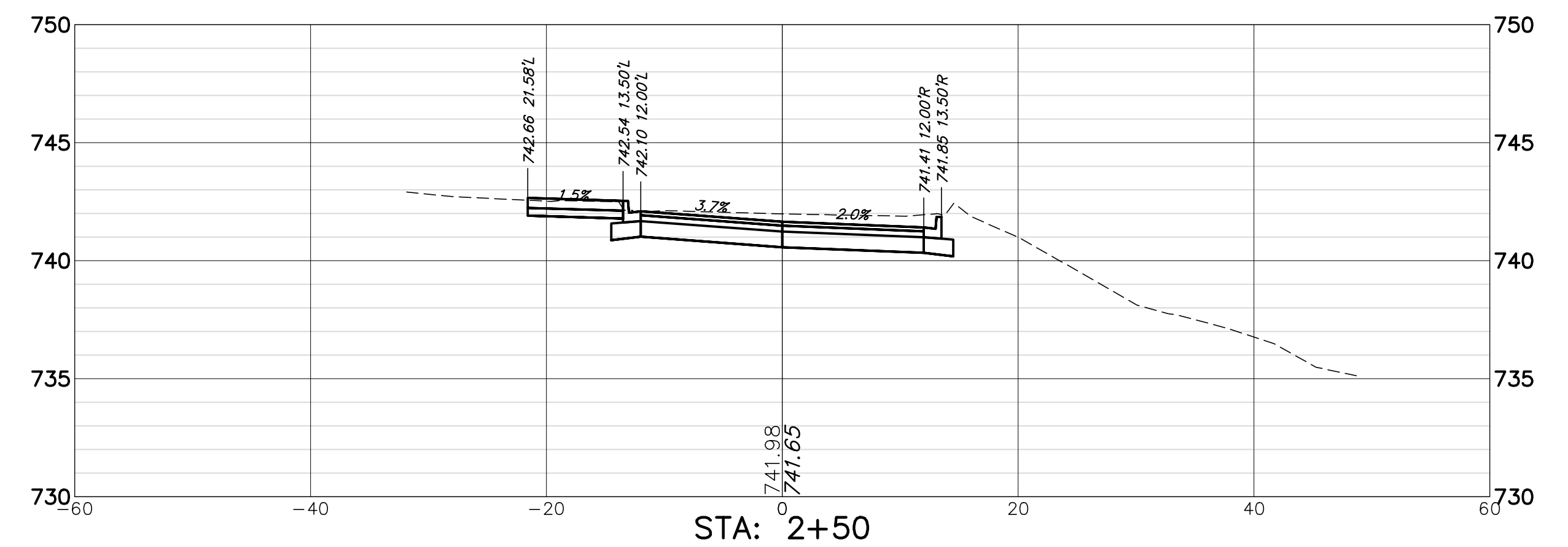
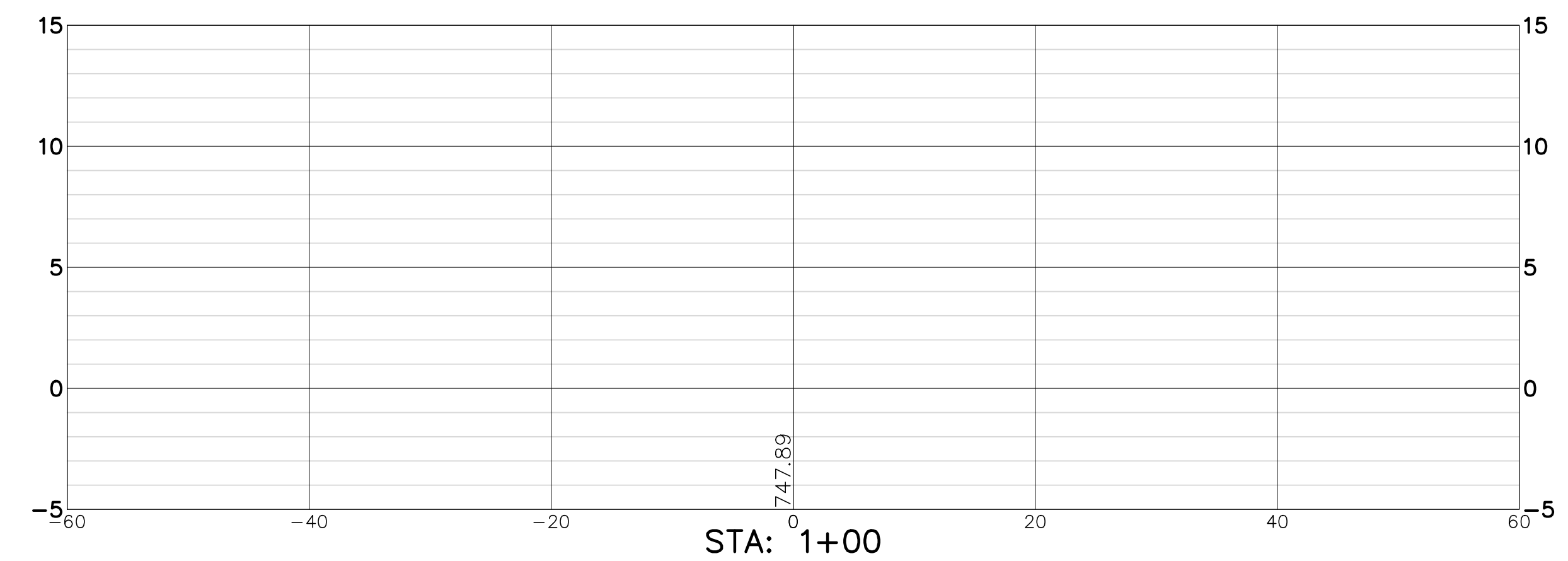
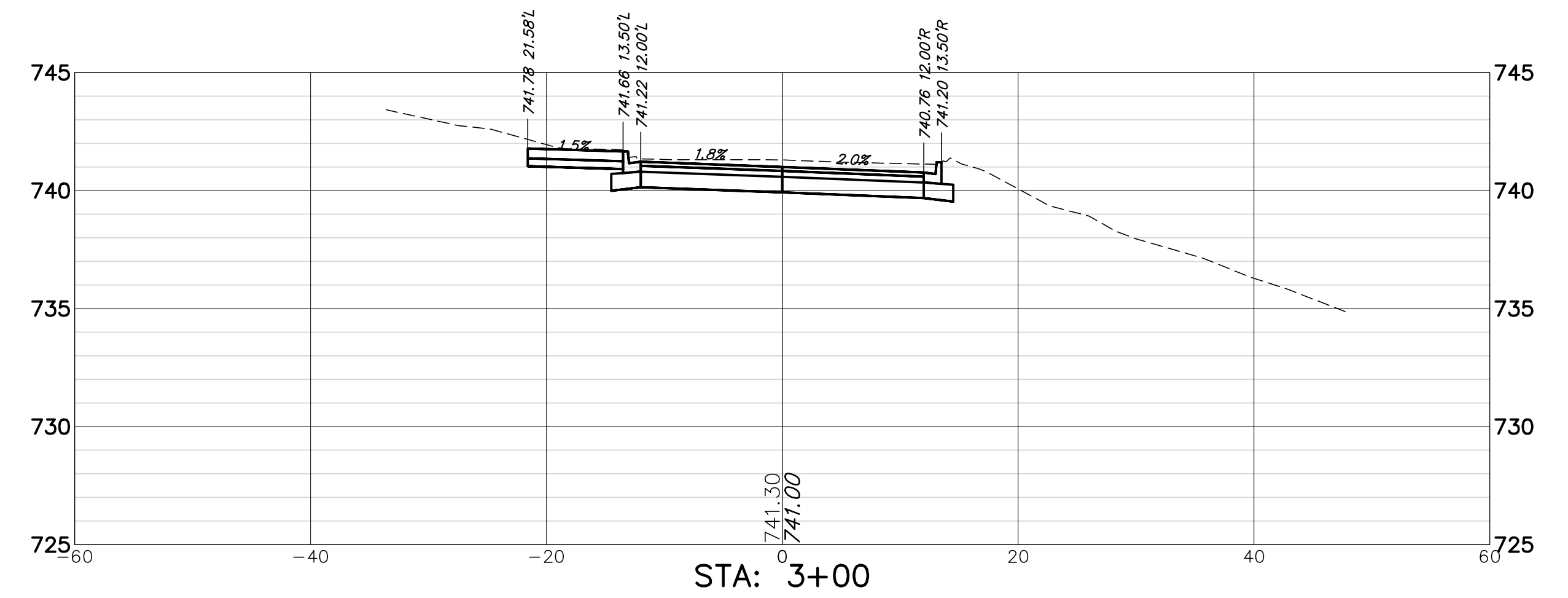
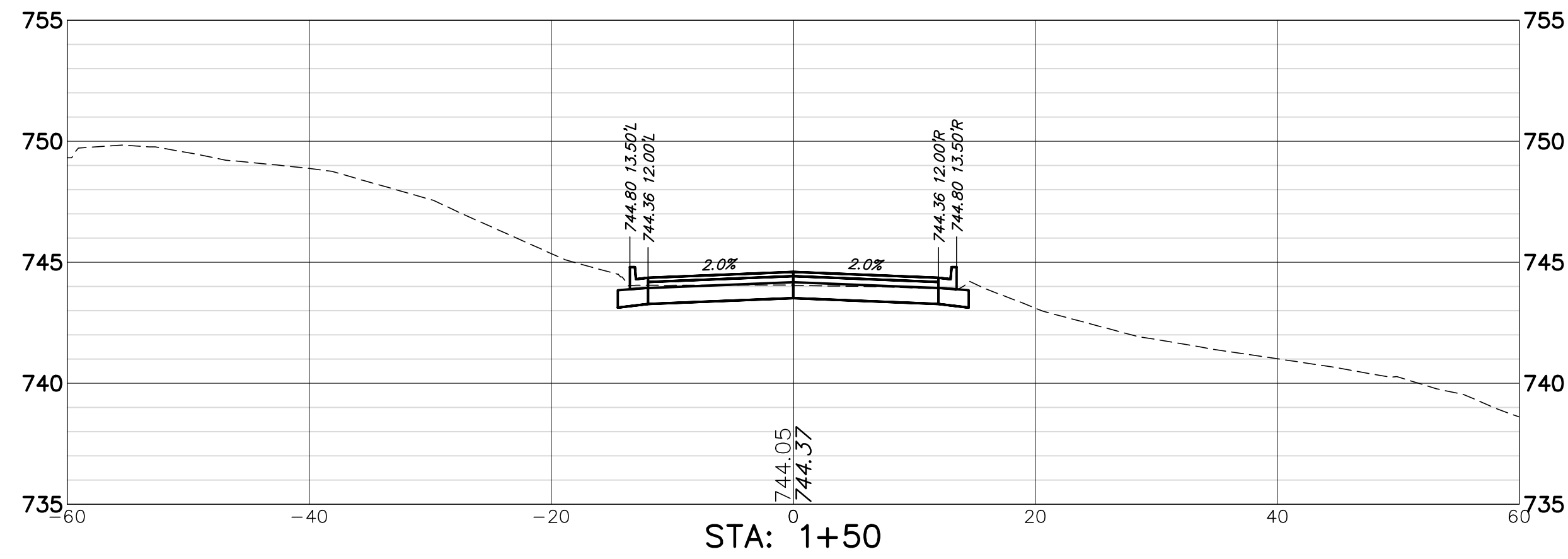
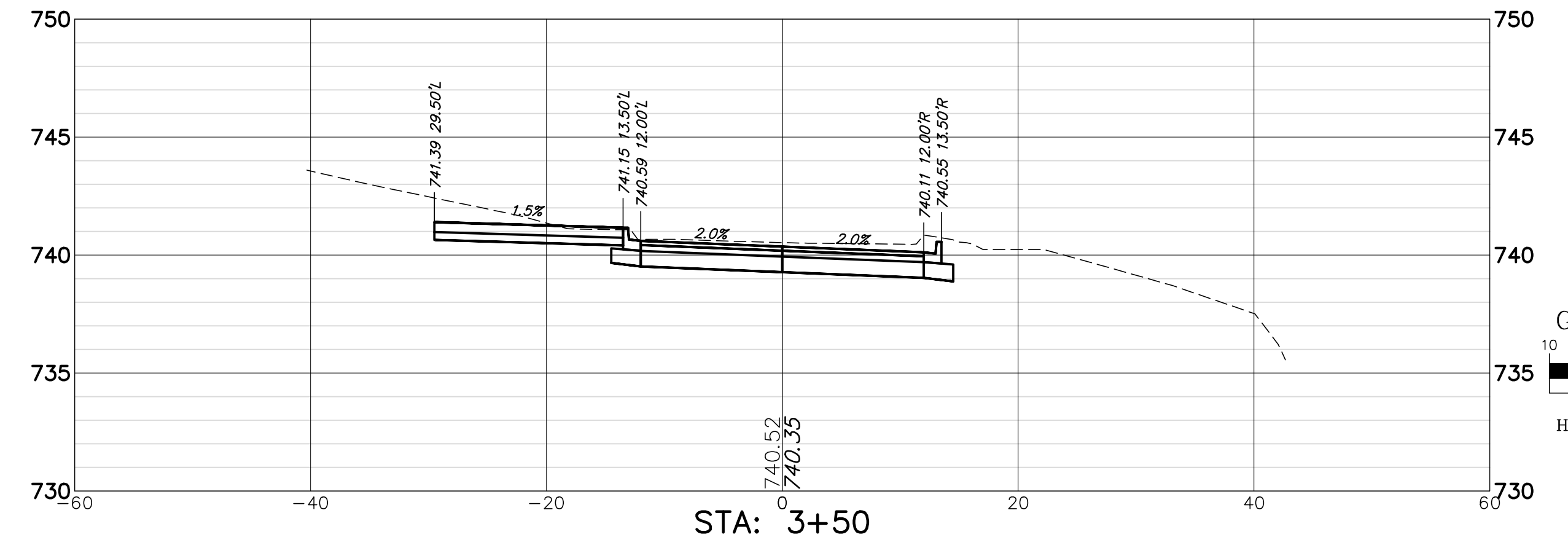
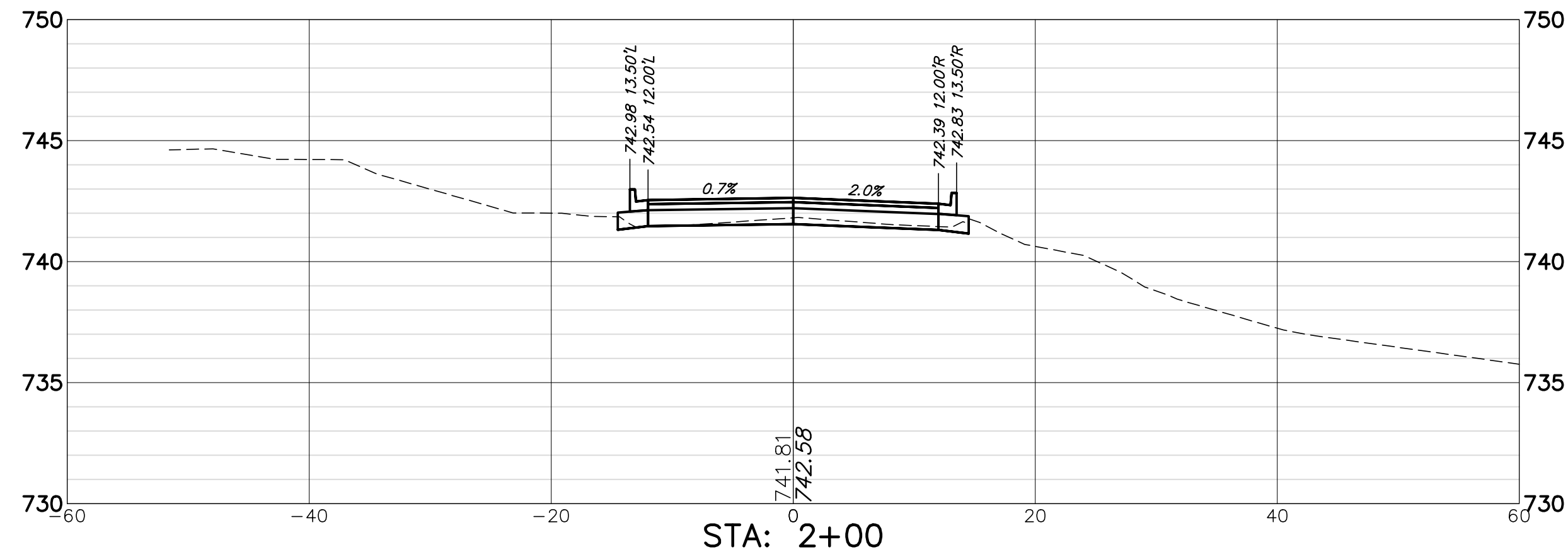
**GHA GEWALT HAMILTON ASSOCIATES, INC.**  
 625 Forest Edge Drive ■ Vernon Hills, IL. 60061  
 TEL 847.478.9700 ■ FAX 847.478.9701

**COPYRIGHT NOTICE**  
 This drawing is the property of Gewalt-Hamilton Assoc., Inc. and is not to be used for any purpose other than the specific project and site named herein, and cannot be reproduced in any manner without the express written permission from Gewalt-Hamilton Associates, Inc.

**MWRD GENERAL NOTES**  
**BIRCHWOOD PARK IMPROVEMENTS**  
**PALATINE PARK DISTRICT**  
**435 W. ILLINOIS AVENUE, PALATINE, ILLINOIS**

NO.	BY	DATE	REVISION	NO.	BY	DATE	REVISION

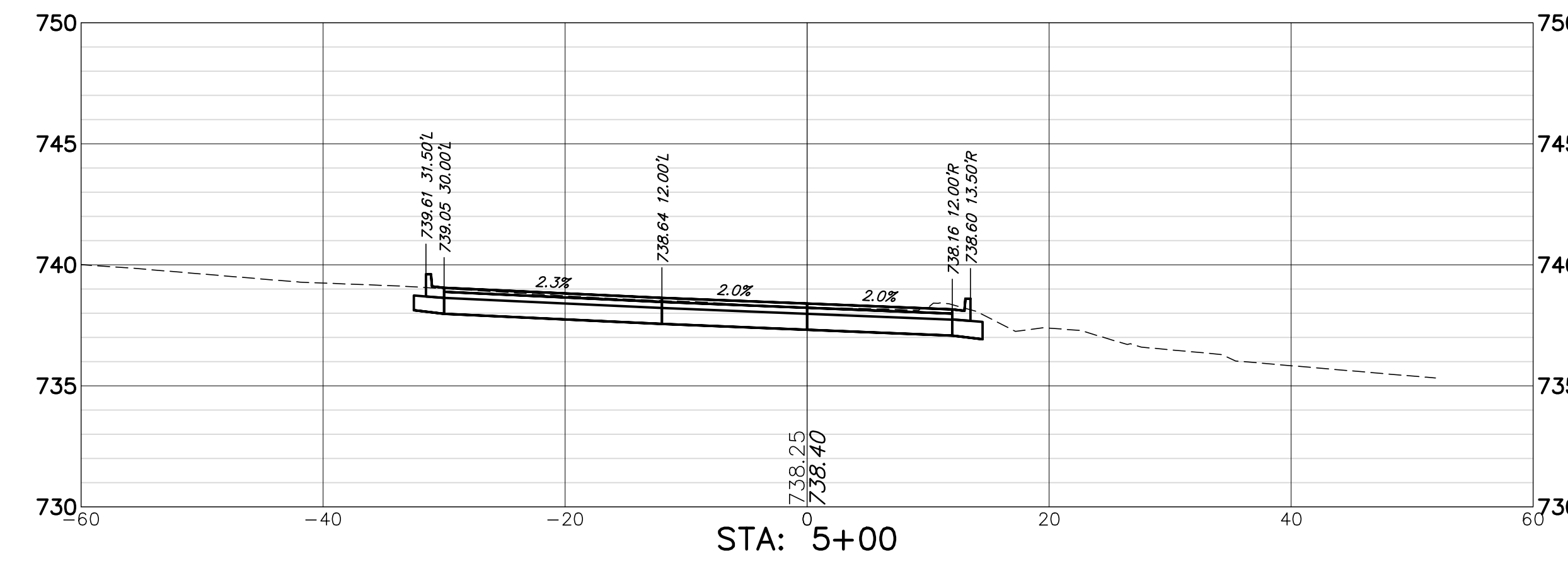
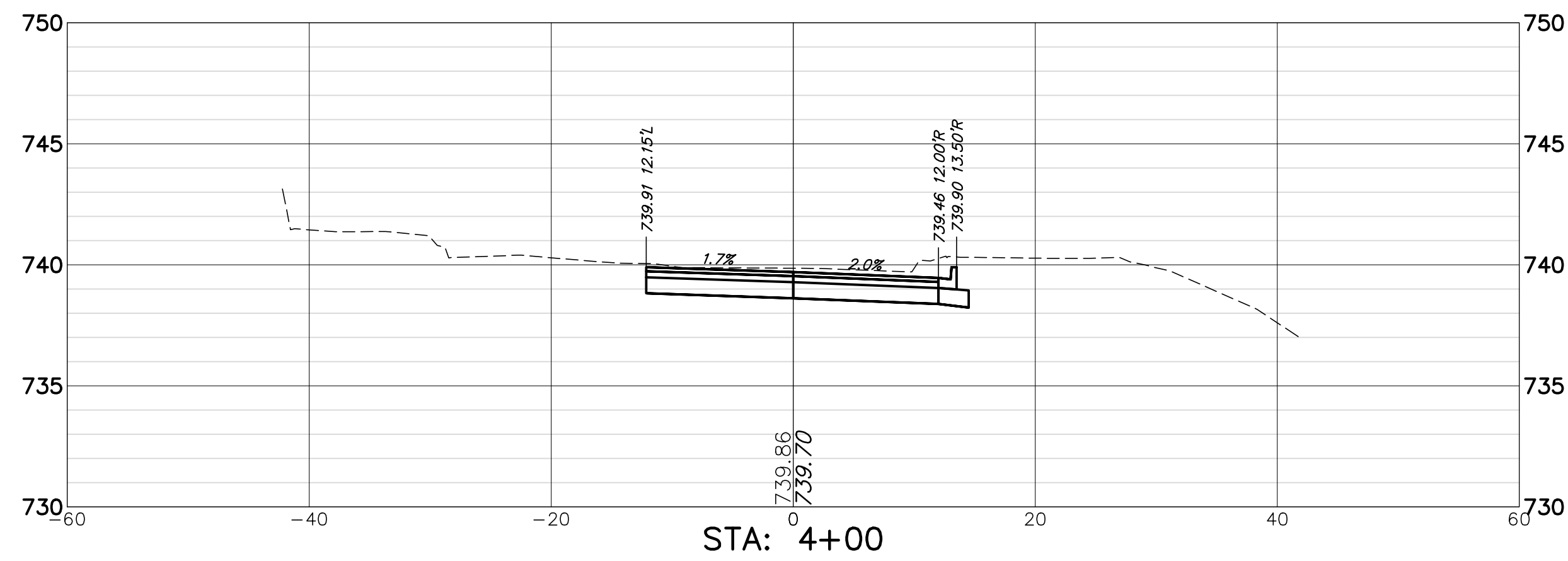
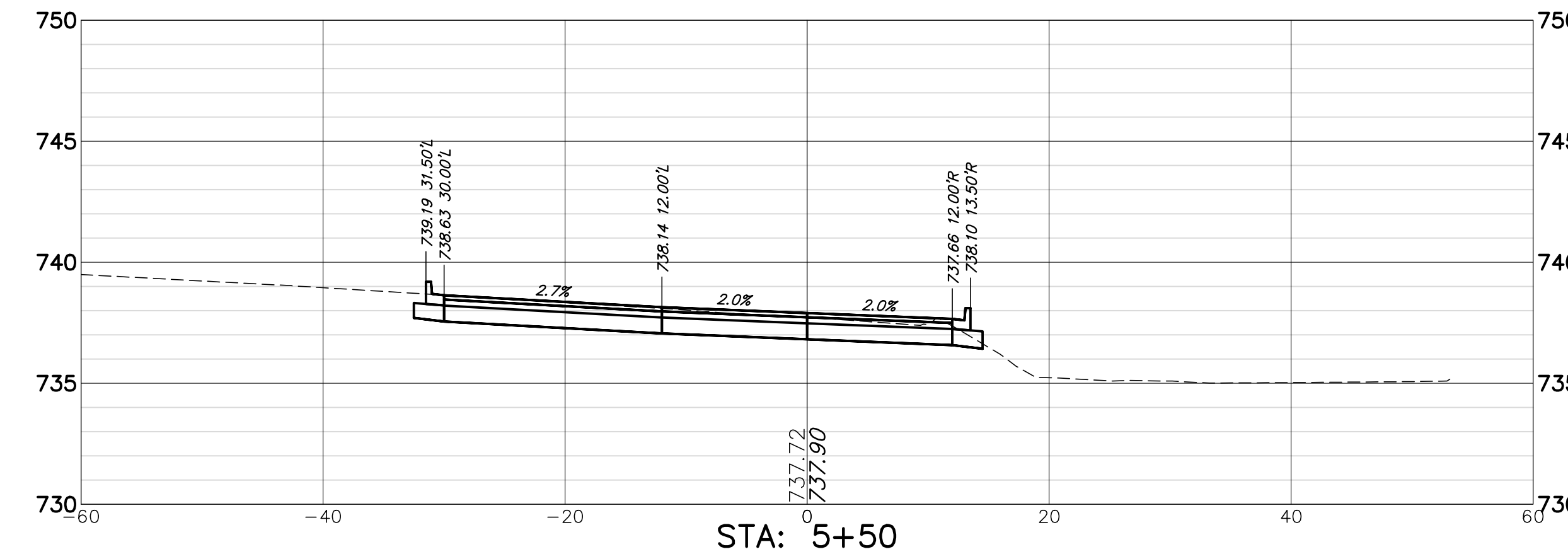
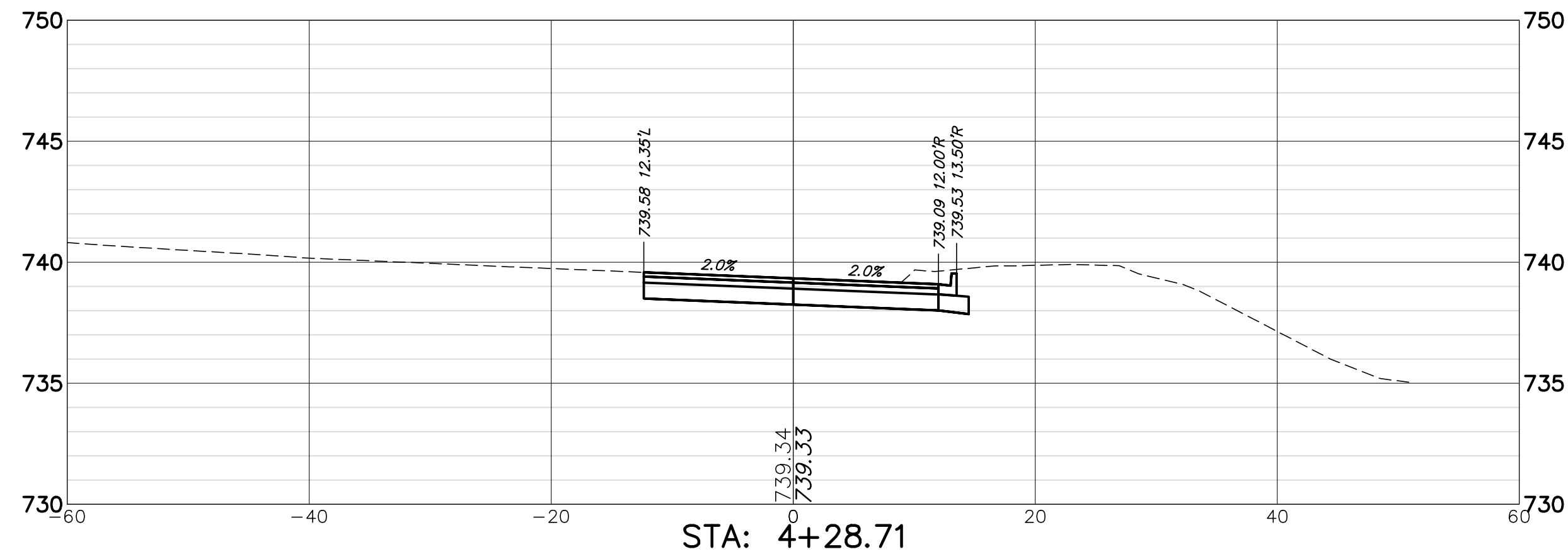
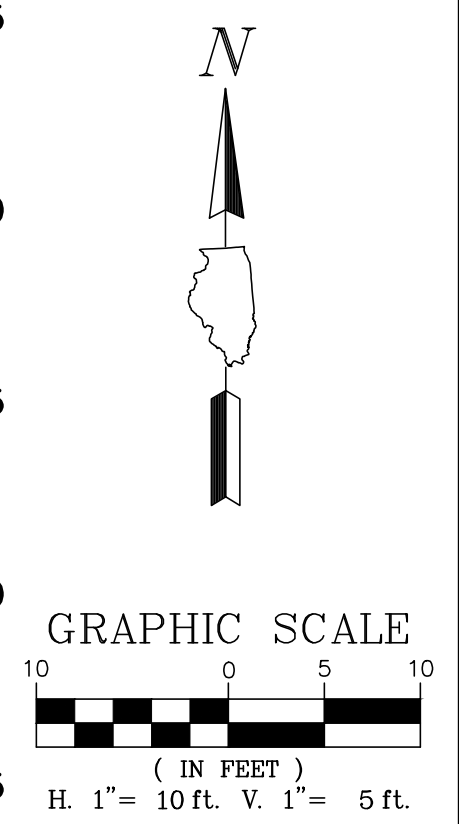
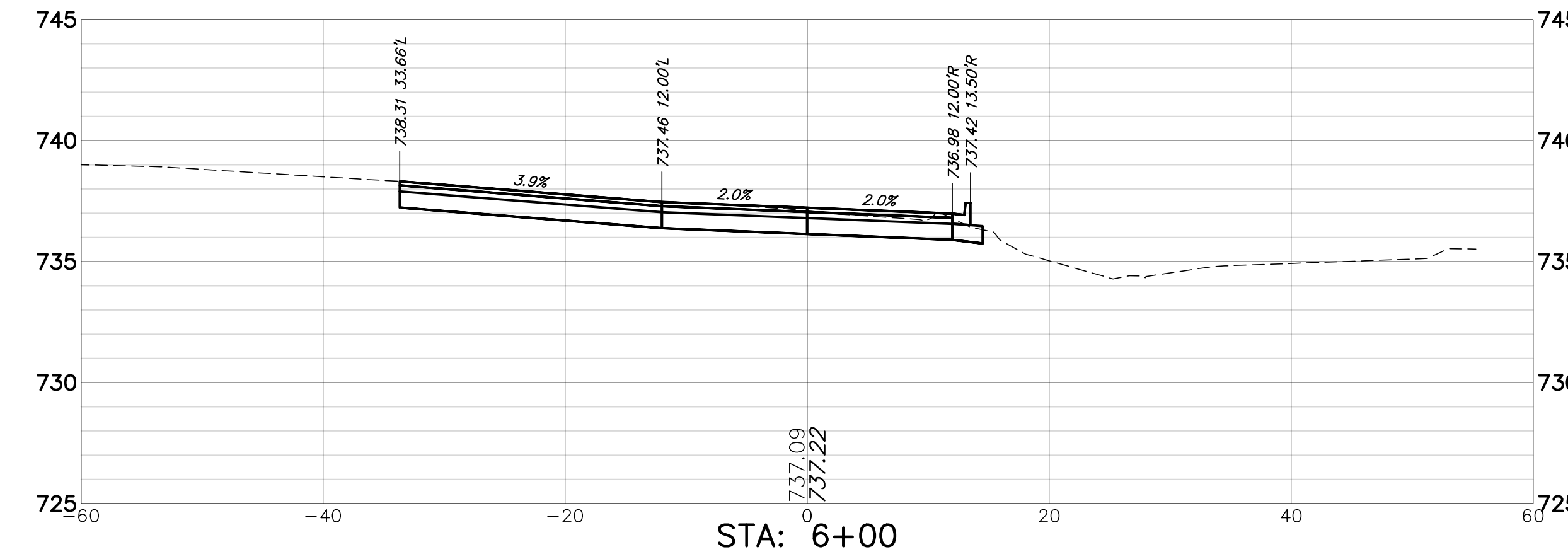
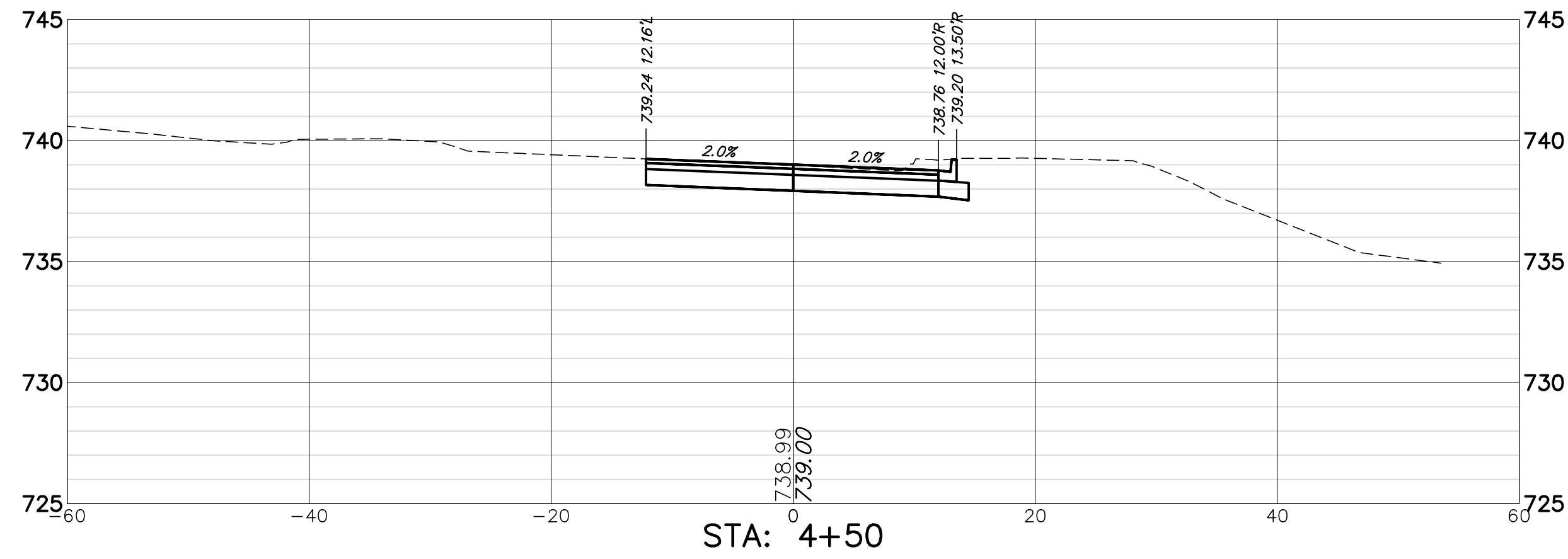
<b>FILE</b>		<b>SHEET NUMBER:</b>
<b>DRAWN BY:</b> GHA	<b>GHA PROJECT #</b>	<b>18</b>
<b>DATE:</b> 05.04.21	5241.212	
<b>CHECKED BY:</b> TAR	<b>SCALE:</b>	<b>OF 25 SHEETS</b>
<b>DATE:</b> 05.04.21	N.A.	



6/23/2021 11:22 AM  
 BIRCHWOOD PARK IMPROVEMENTS ENGINEERING 5241.212 PR.DWG

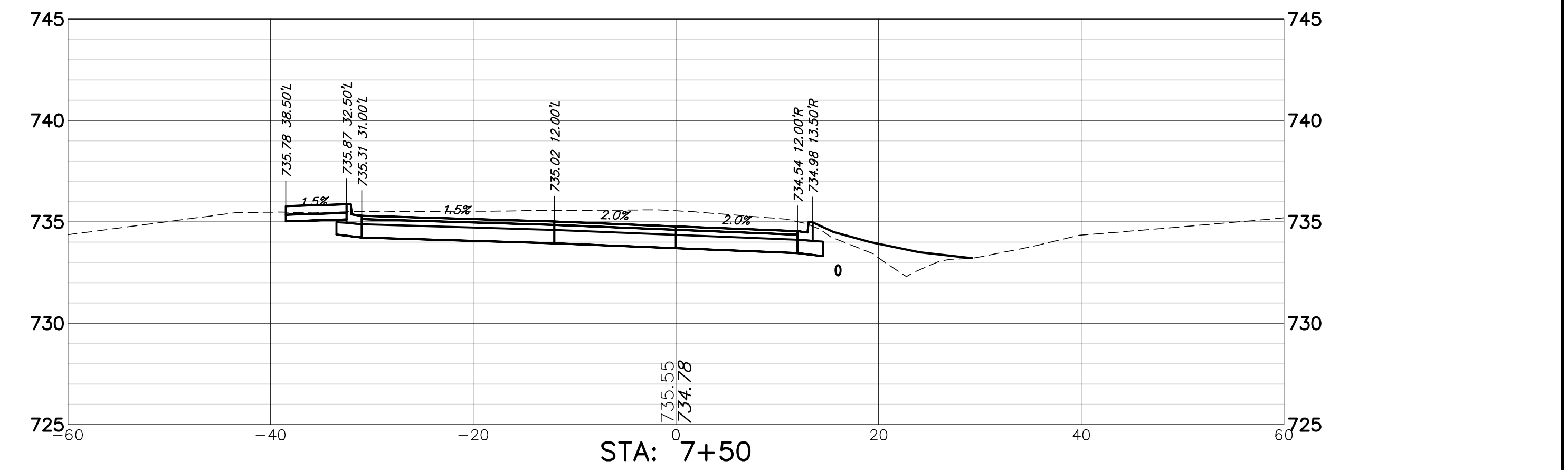
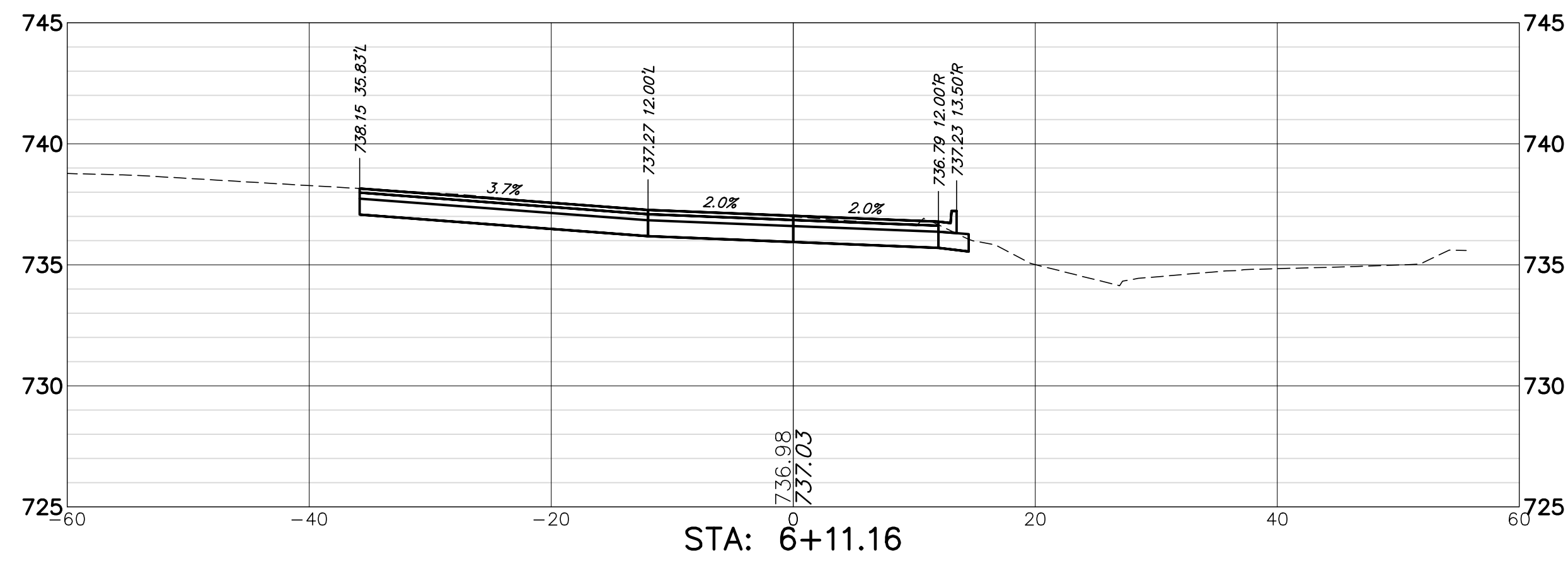
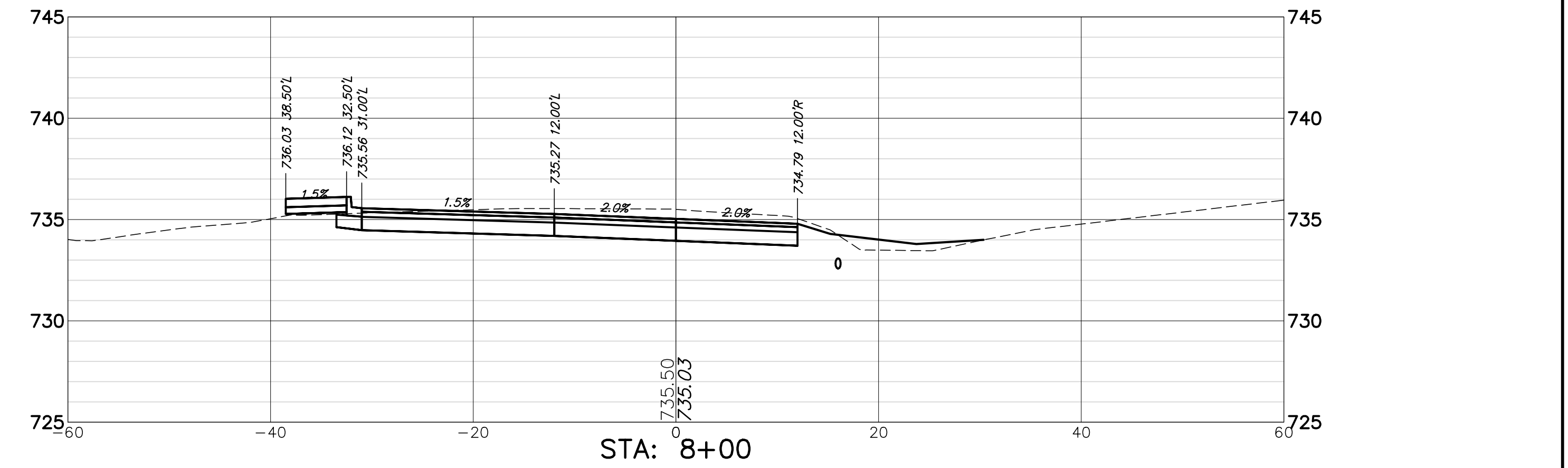
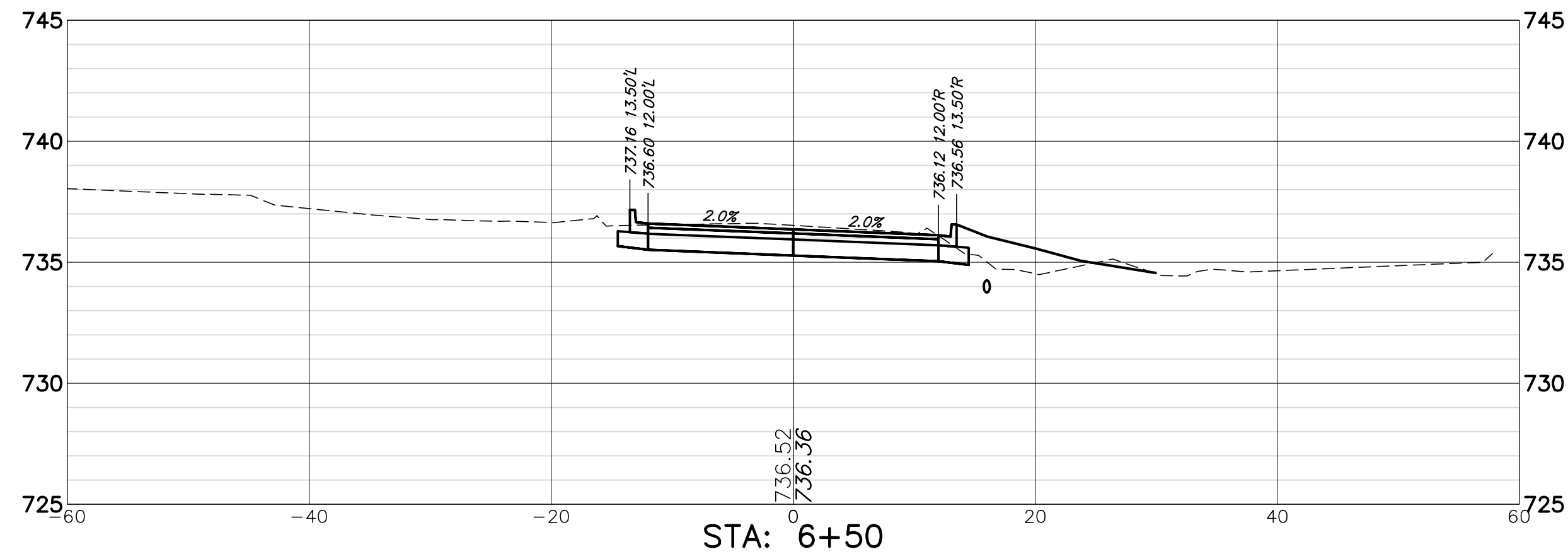
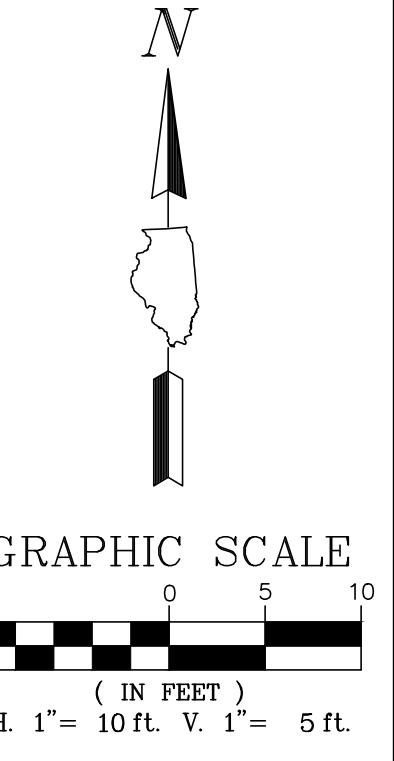
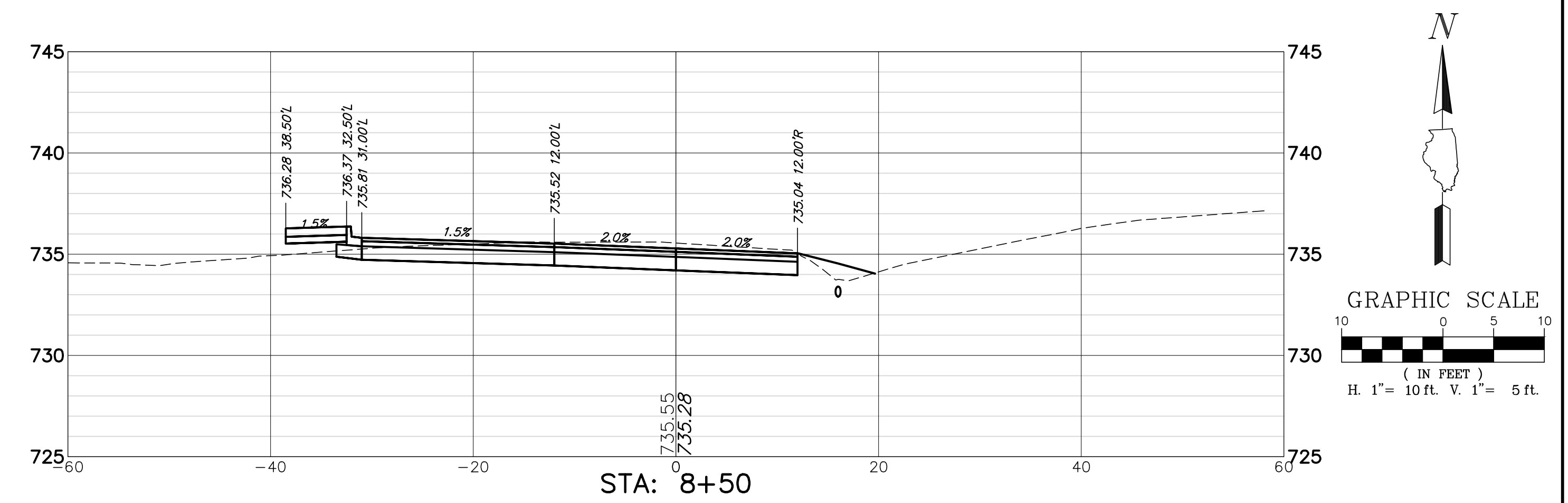
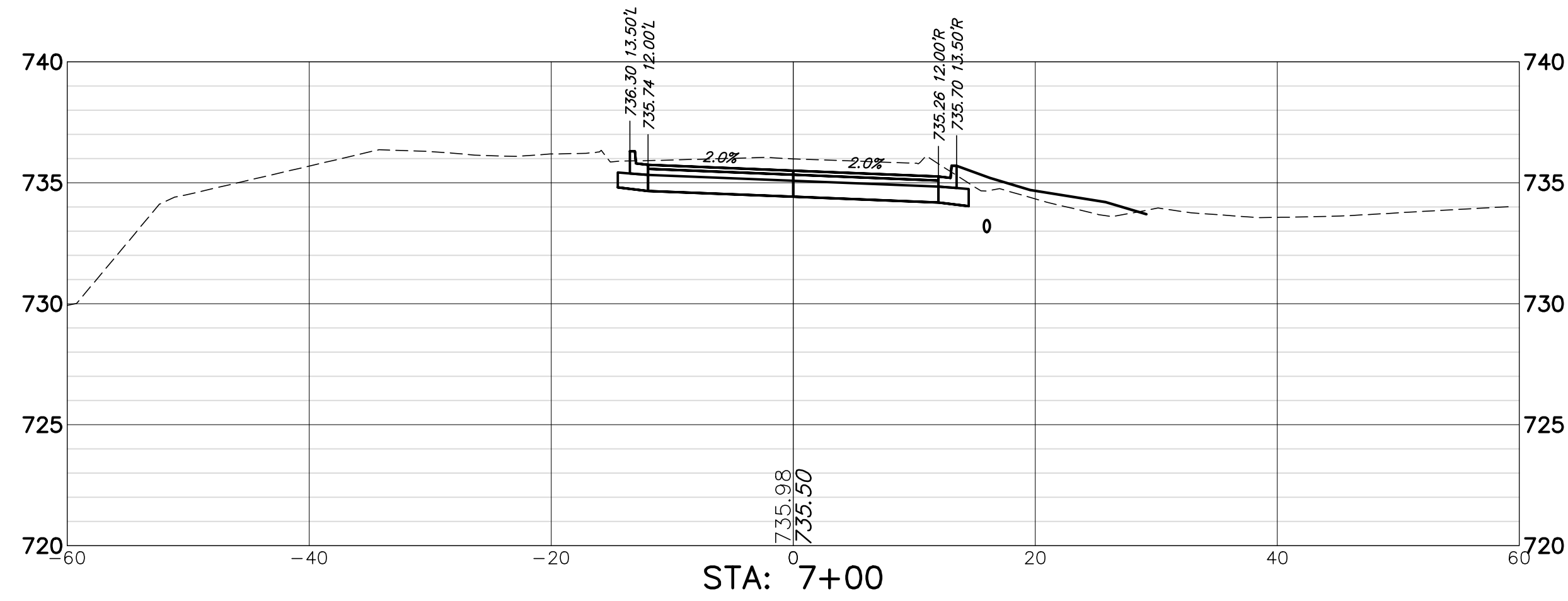
NO.	BY	DATE	REVISION	NO.	BY	DATE	REVISION

FILE	
DRAWN BY: GHA	GHA PROJECT #
DATE: 05.04.21	5241.212
CHECKED BY: TAR	SCALE:
DATE: 05.04.21	1"=10'



NO.	BY	DATE	REVISION	NO.	BY	DATE	REVISION

FILE	
DRAWN BY: GHA	GHA PROJECT #
DATE: 05.04.21	5241.212
CHECKED BY: TAR	SCALE:
DATE: 05.04.21	1"=10'



6/23/2021 11:22 AM  
 BIRCHWOOD PARK IMPROVEMENTS ENGINEERING 5241.212 - R1.DWG

**GHA GEWALT HAMILTON ASSOCIATES, INC.**  
 625 Forest Edge Drive ■ Vernon Hills, IL. 60061  
 TEL 847.478.9700 ■ FAX 847.478.9701

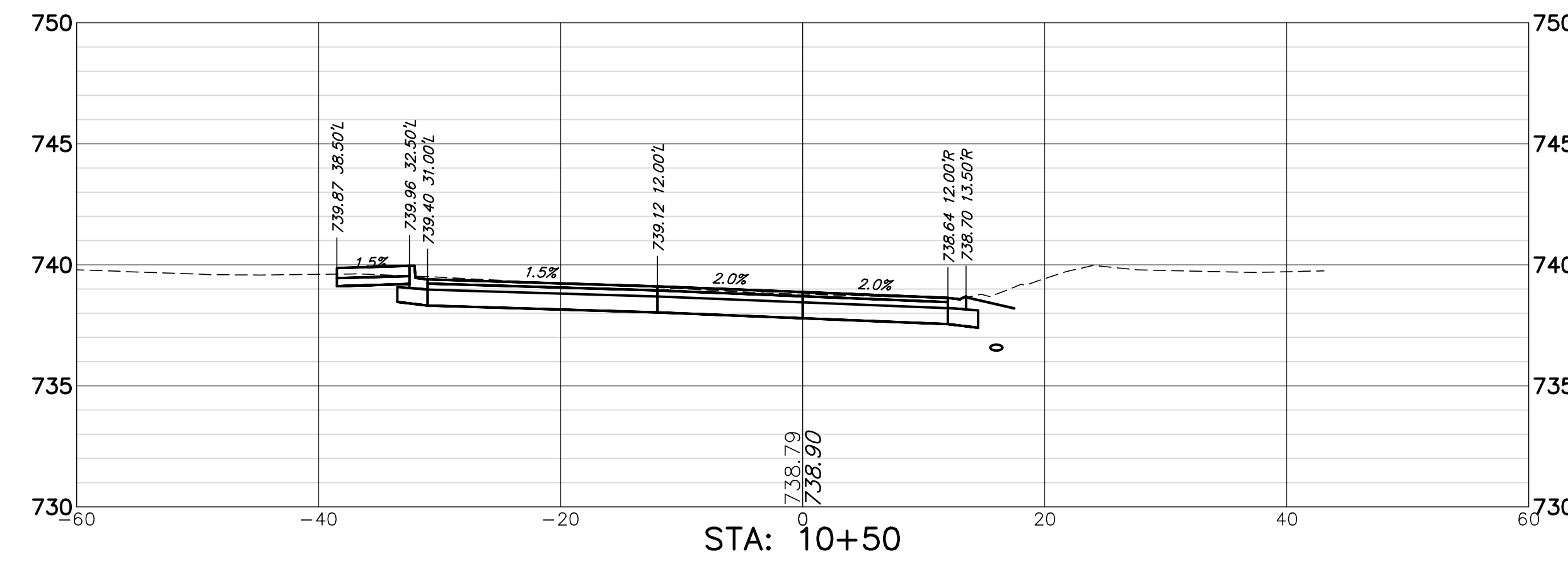
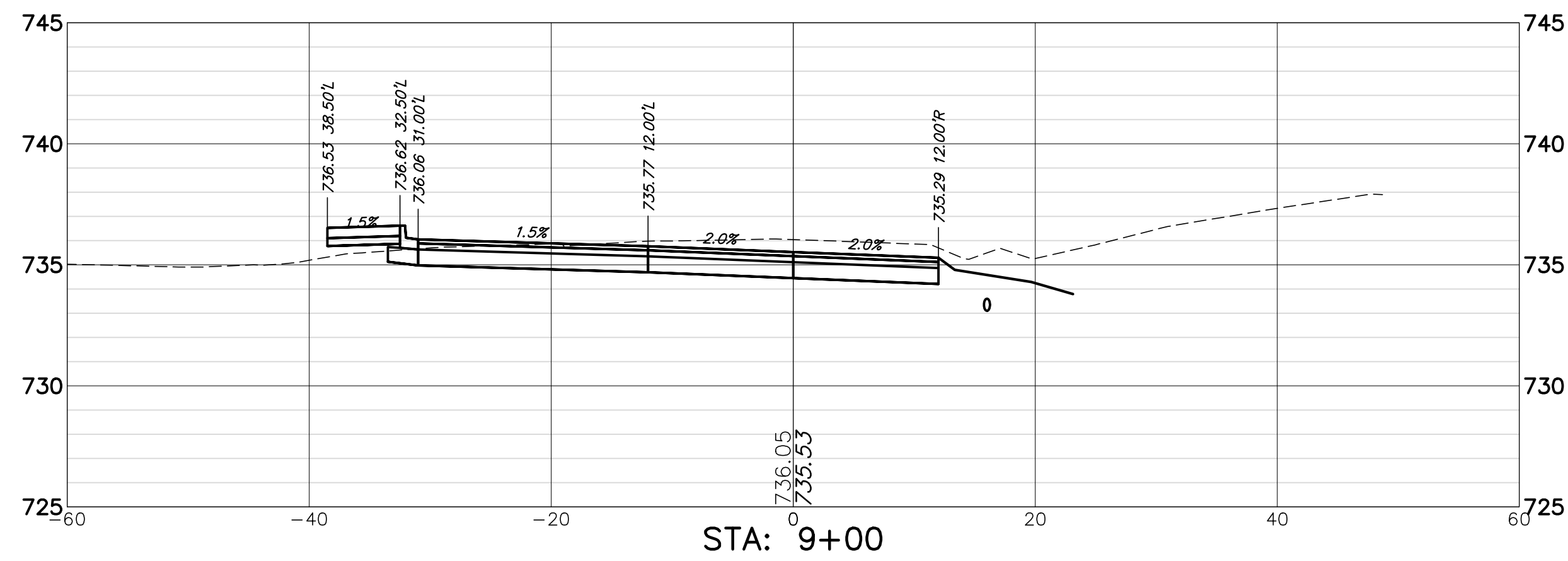
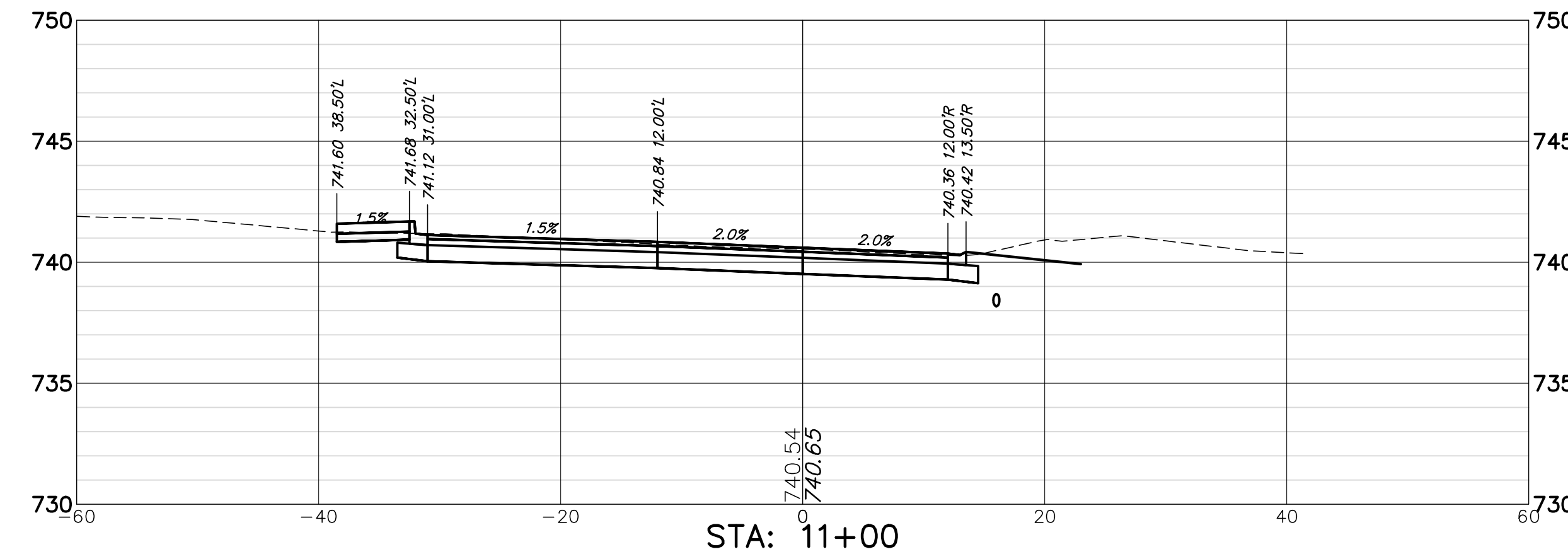
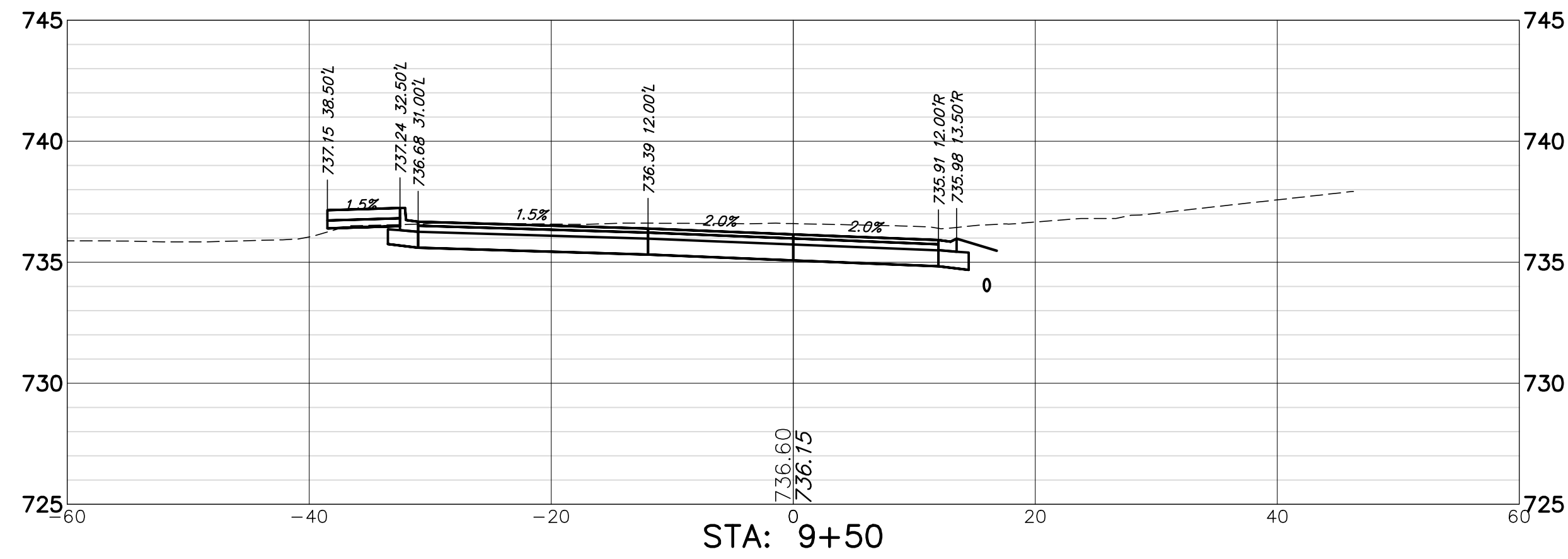
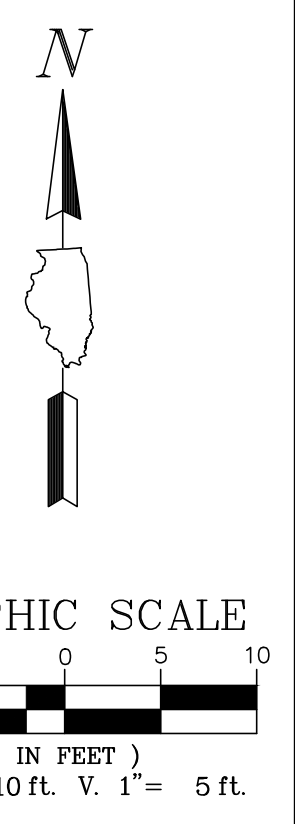
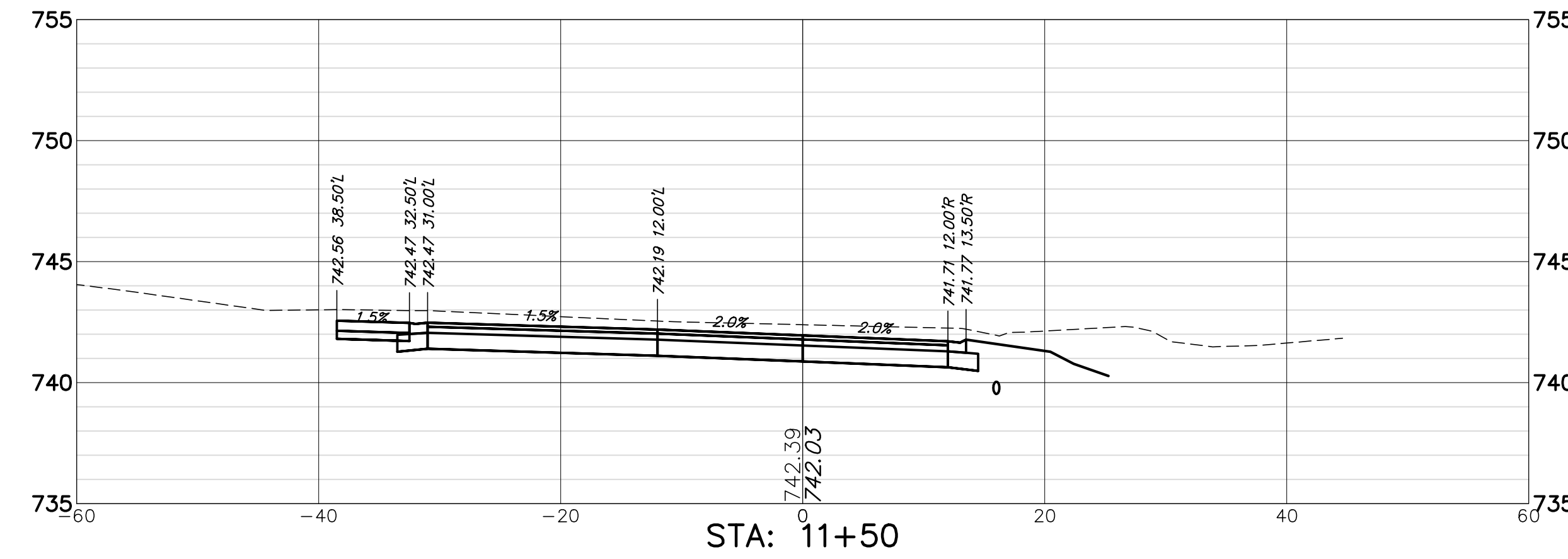
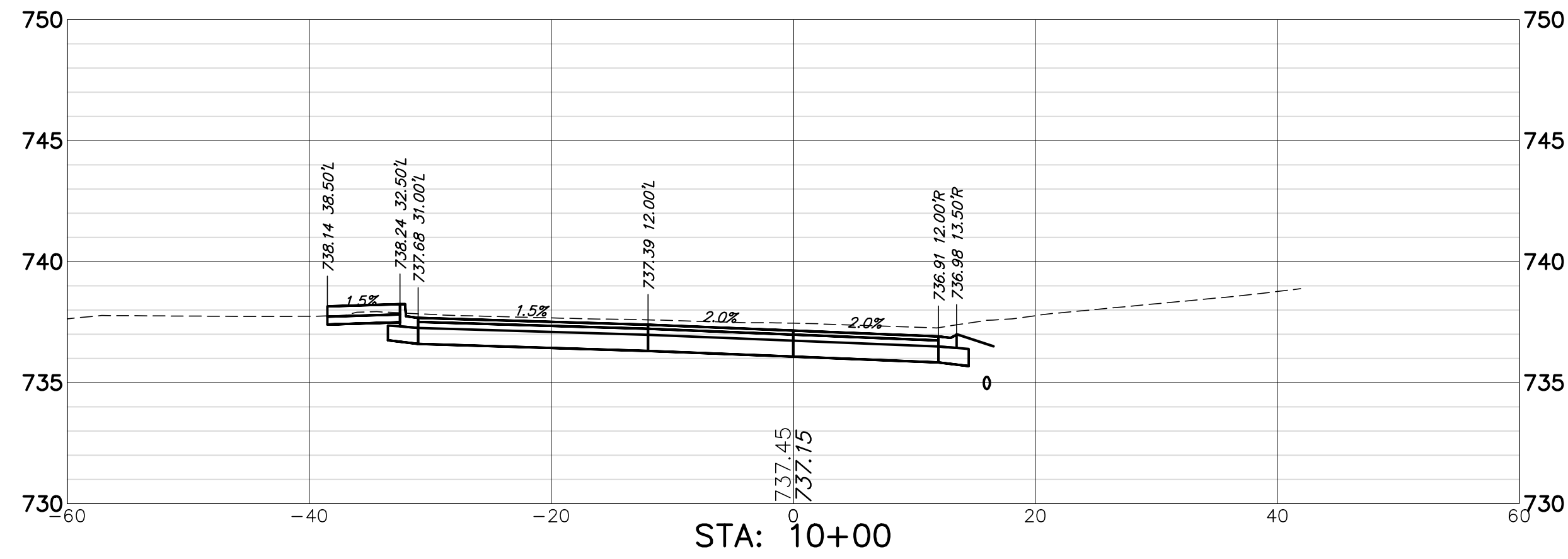
COPYRIGHT NOTICE  
 This drawing is the property of Gewalt-Hamilton Assoc., Inc. and is not to be used for any purpose other than the specific project and site named herein, and cannot be reproduced in any manner without the express written permission from Gewalt-Hamilton Associates, Inc.

**CROSS SECTIONS STA. 6+11.16 TO STA. 8+50**  
**BIRCHWOOD PARK IMPROVEMENTS**  
**PALATINE PARK DISTRICT**  
**435 W. ILLINOIS AVENUE, PALATINE, ILLINOIS**

NO.	BY	DATE	REVISION	NO.	BY	DATE	REVISION

FILE	
DRAWN BY: GHA	GHA PROJECT #
DATE: 05.04.21	5241.212
CHECKED BY: TAR	SCALE:
DATE: 05.04.21	1"=10'

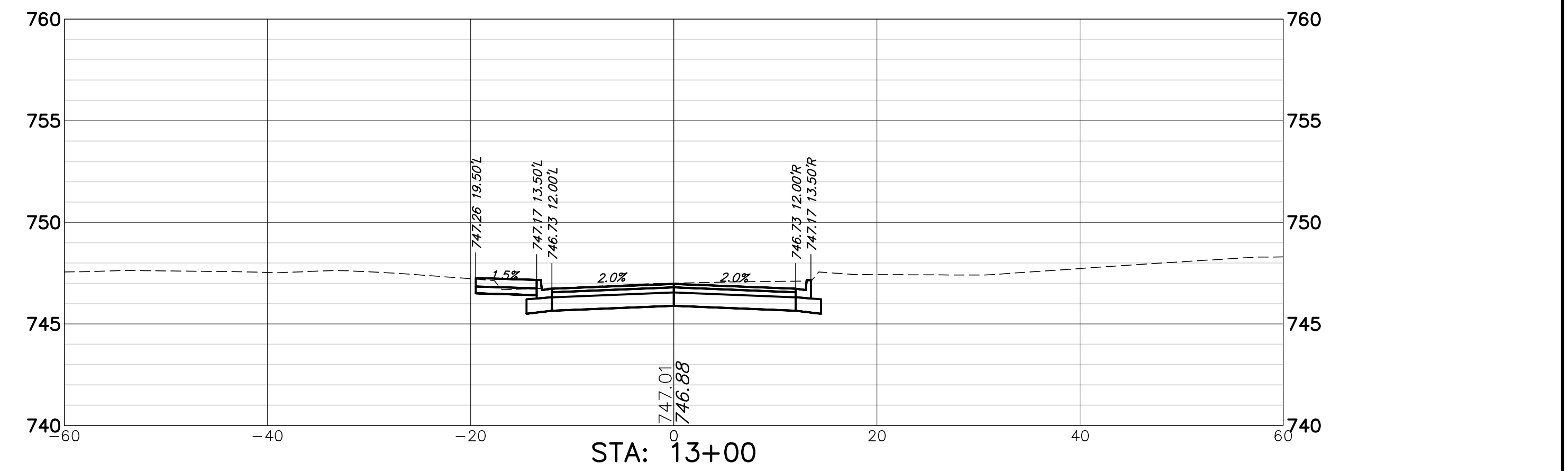
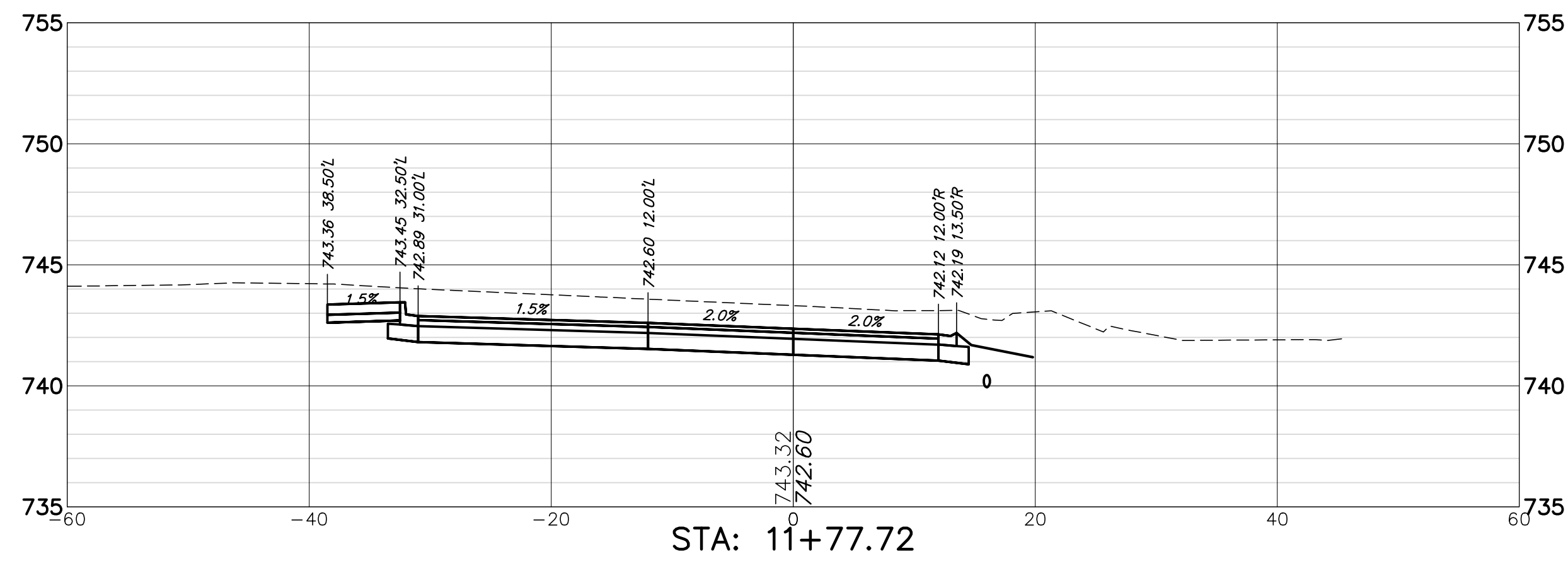
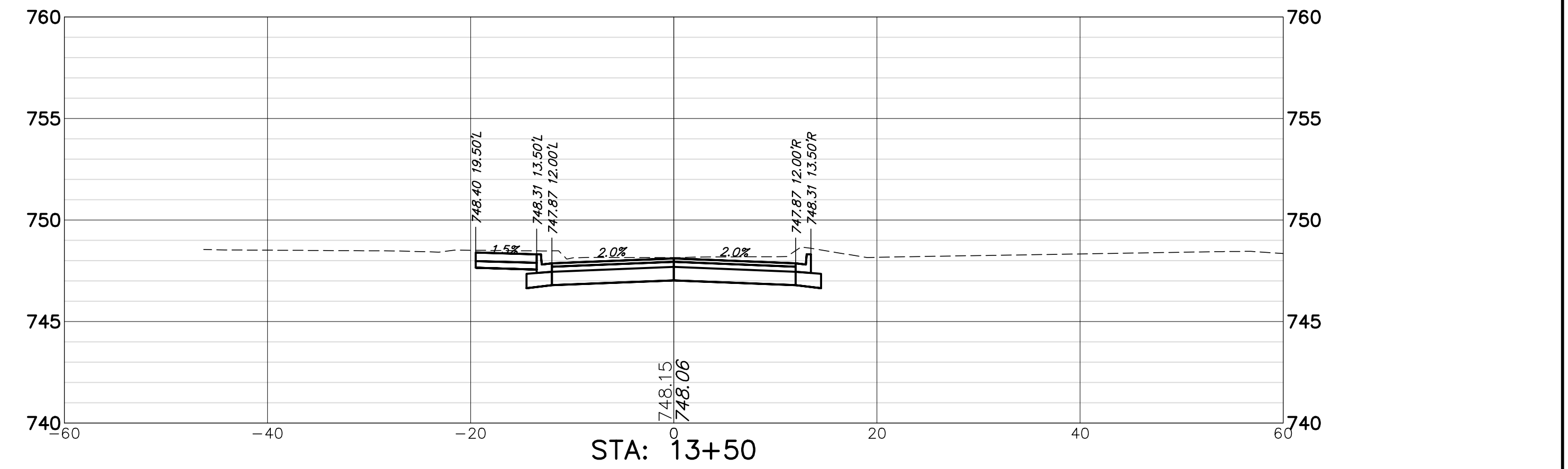
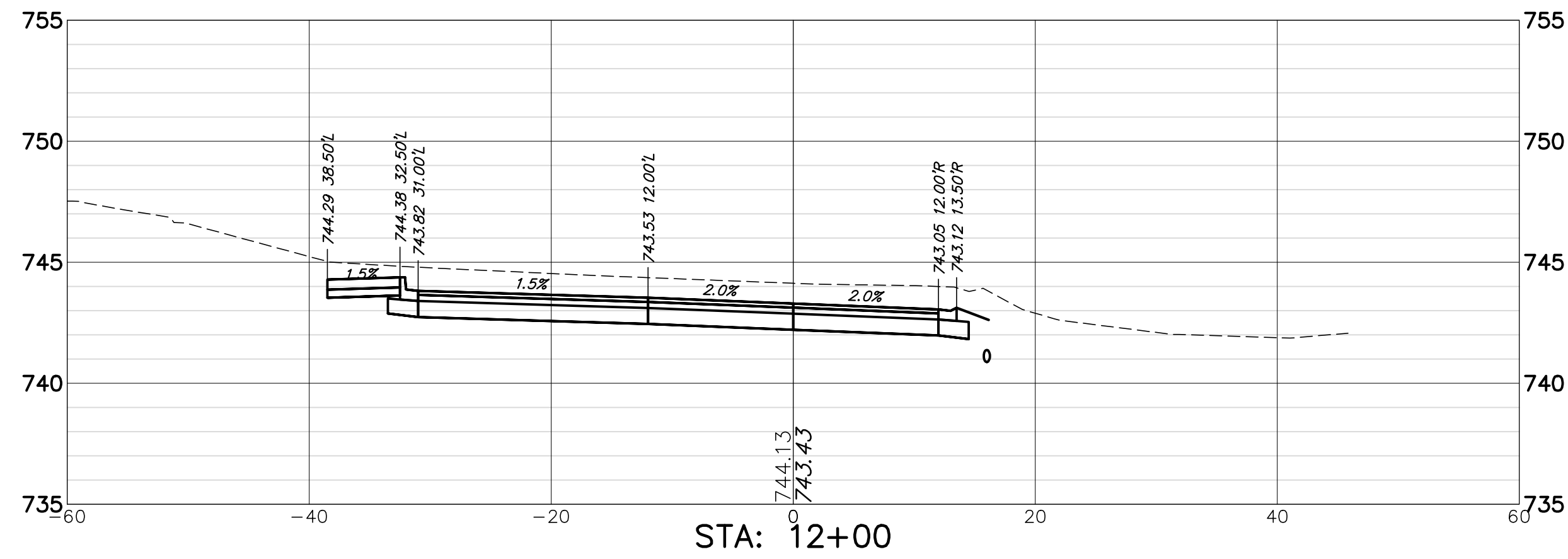
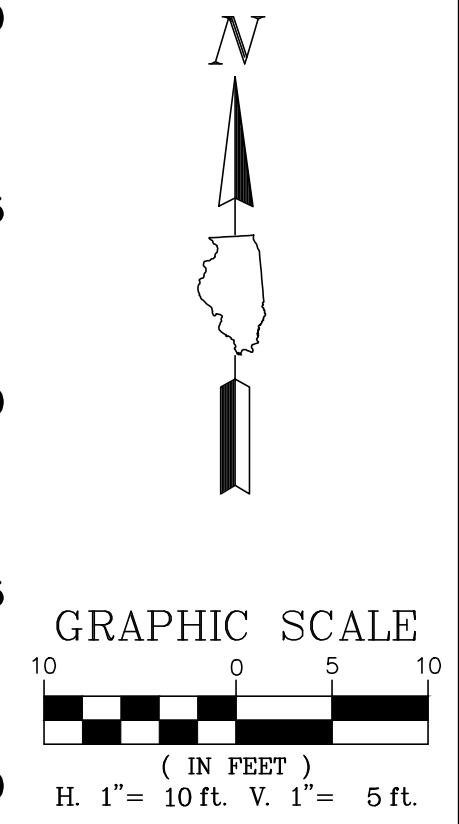
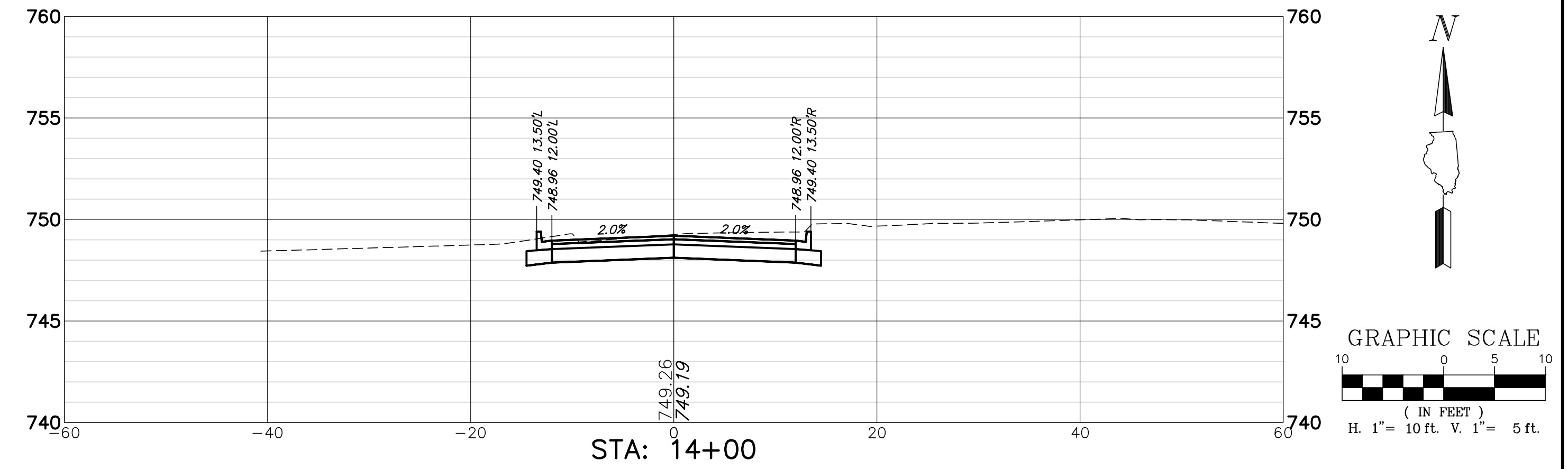
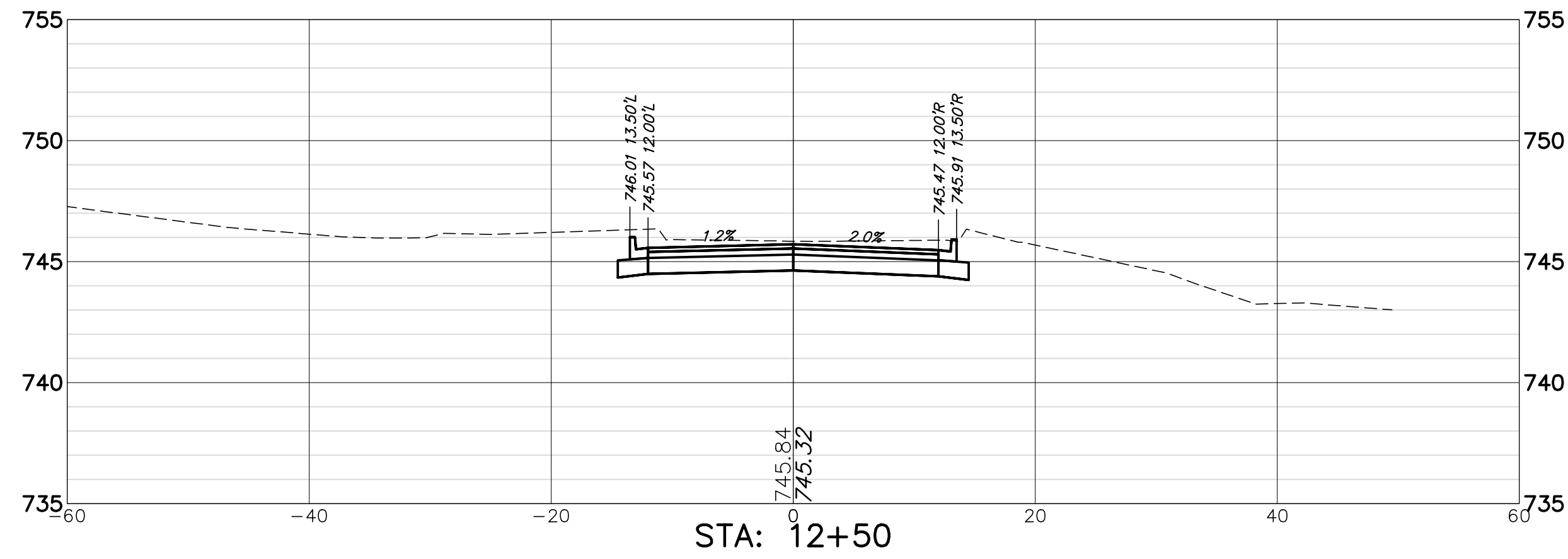
SHEET NUMBER:  
**21**  
 OF 25 SHEETS



NO.	BY	DATE	REVISION	NO.	BY	DATE	REVISION

FILE	
DRAWN BY: GHA	GHA PROJECT #
DATE: 05.04.21	5241.212
CHECKED BY: TAR	SCALE:
DATE: 05.04.21	1"=10'

© 2021 GHA. ALL RIGHTS RESERVED. PROJECT NO. 2020-IMP-001. SHEET NO. 22 OF 25. DATE: 05/04/21. 11:52 AM

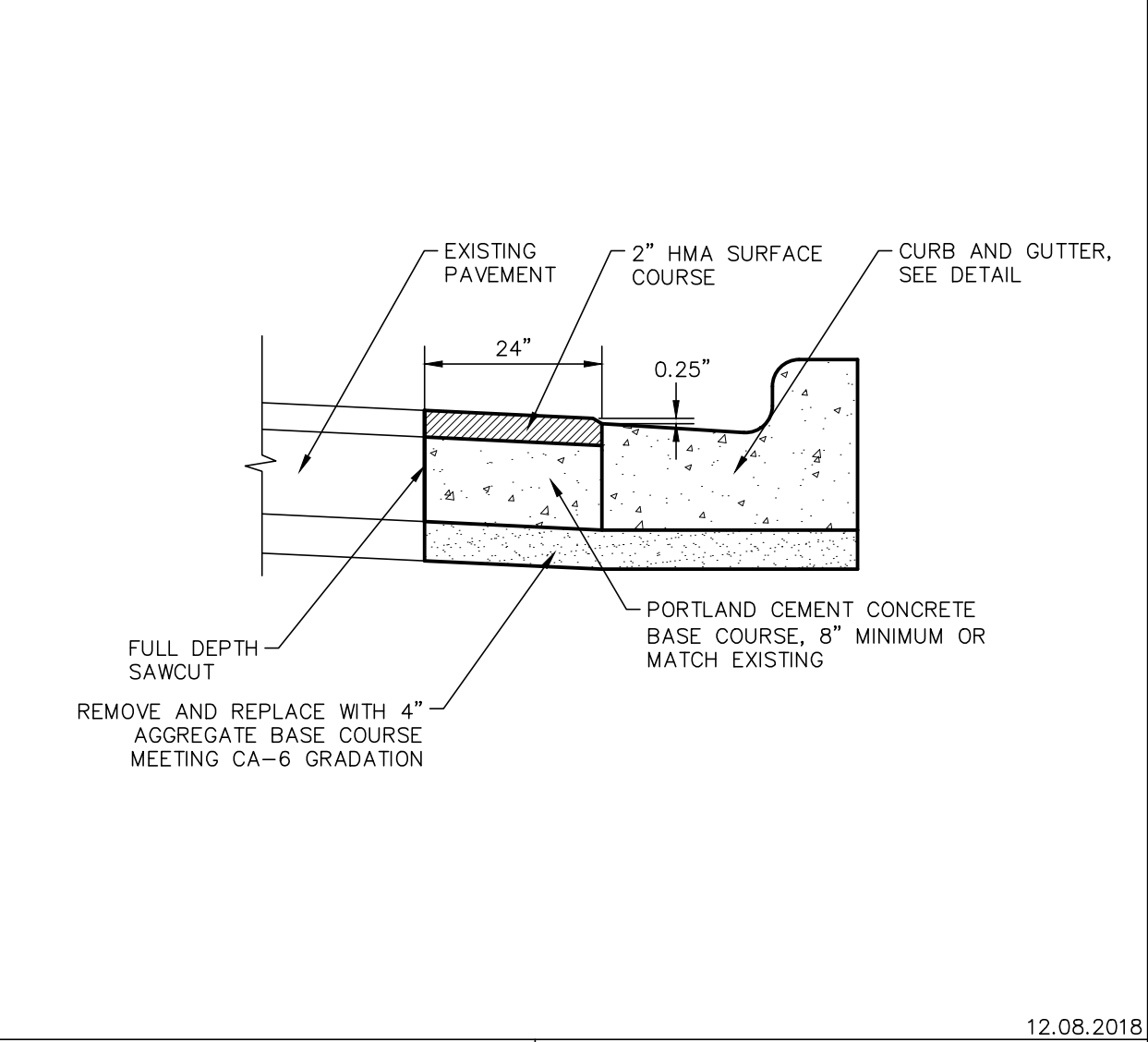
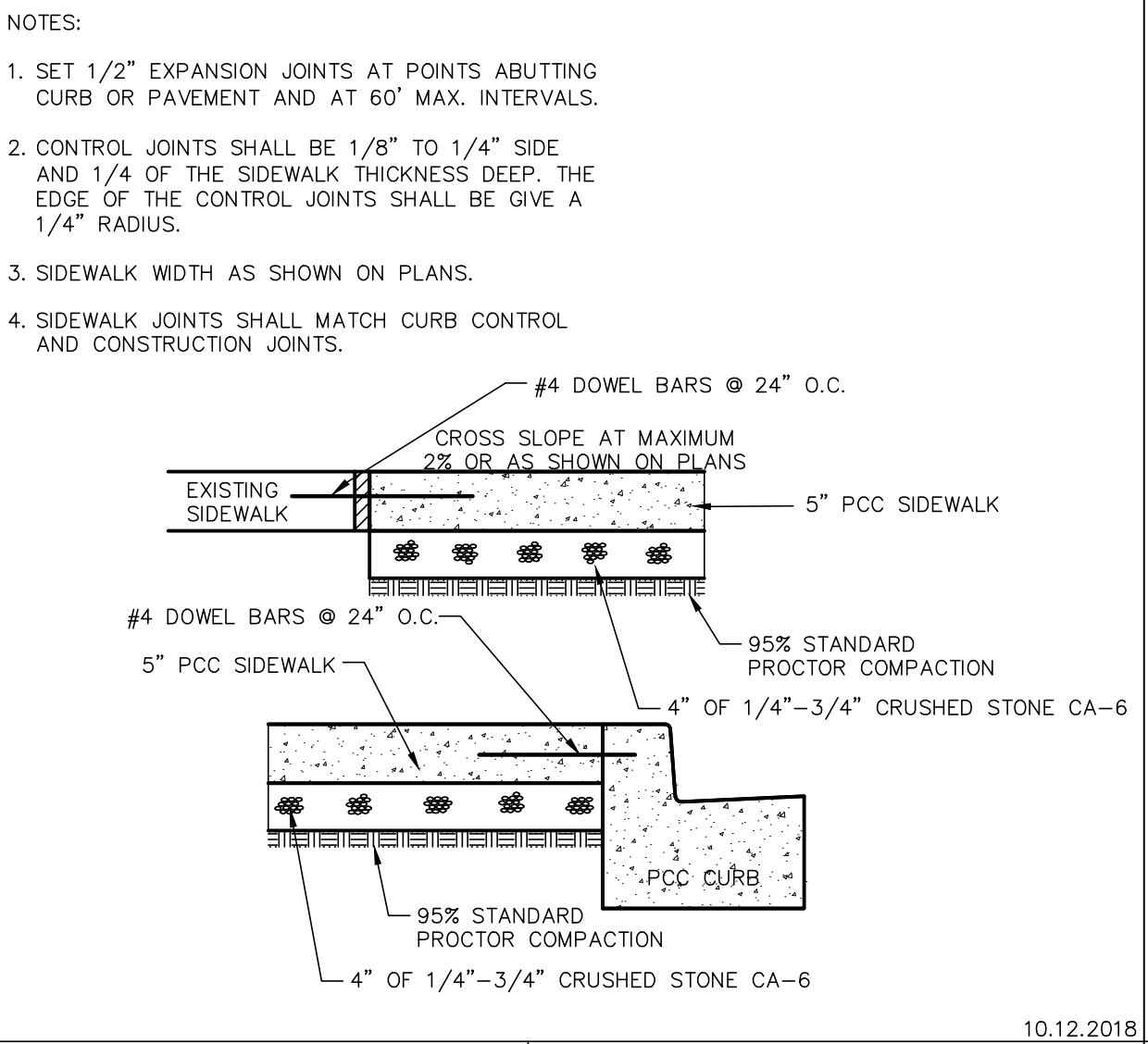
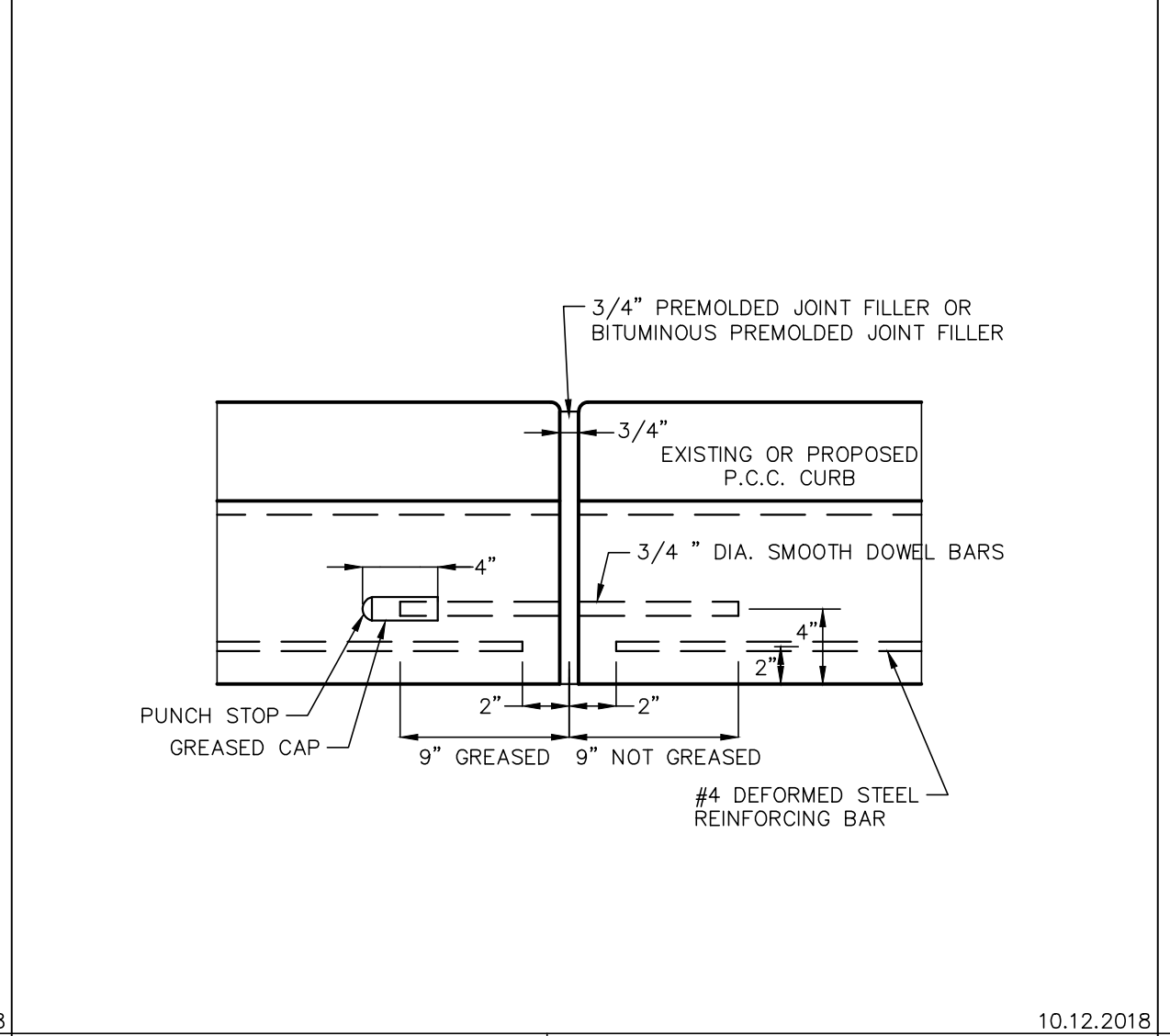
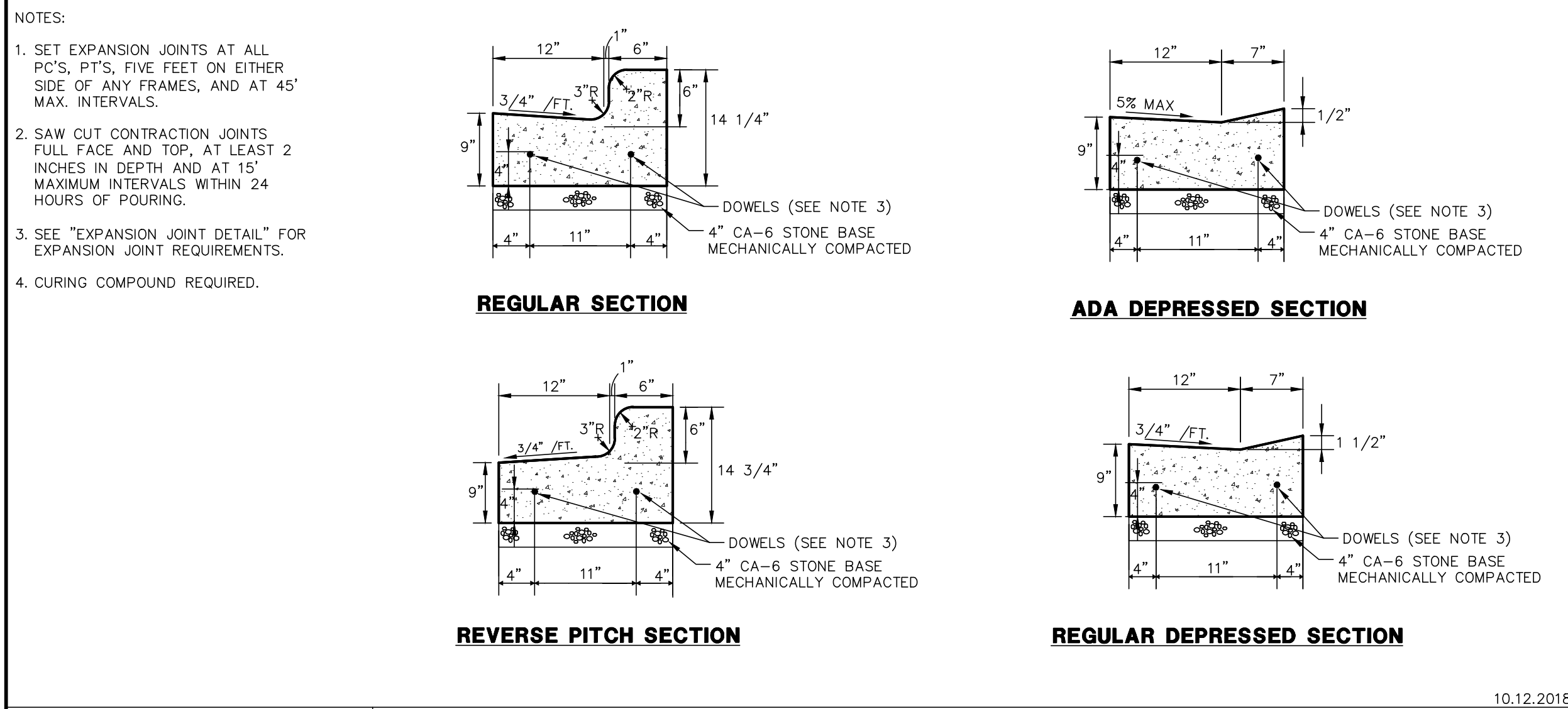


NO.	BY	DATE	REVISION	NO.	BY	DATE	REVISION

FILE	
DRAWN BY: GHA	GHA PROJECT #
DATE: 05.04.21	5241.212
CHECKED BY: TAR	SCALE:
DATE: 05.04.21	1"=10'

© 2021 GHA. ALL RIGHTS RESERVED. PROJECT: BIRCHWOOD PARK IMPROVEMENTS. ENGINEER: T. TARANTINO. DATE: 05/04/21. 11:23 AM





**B6.12 CURB & GUTTER**



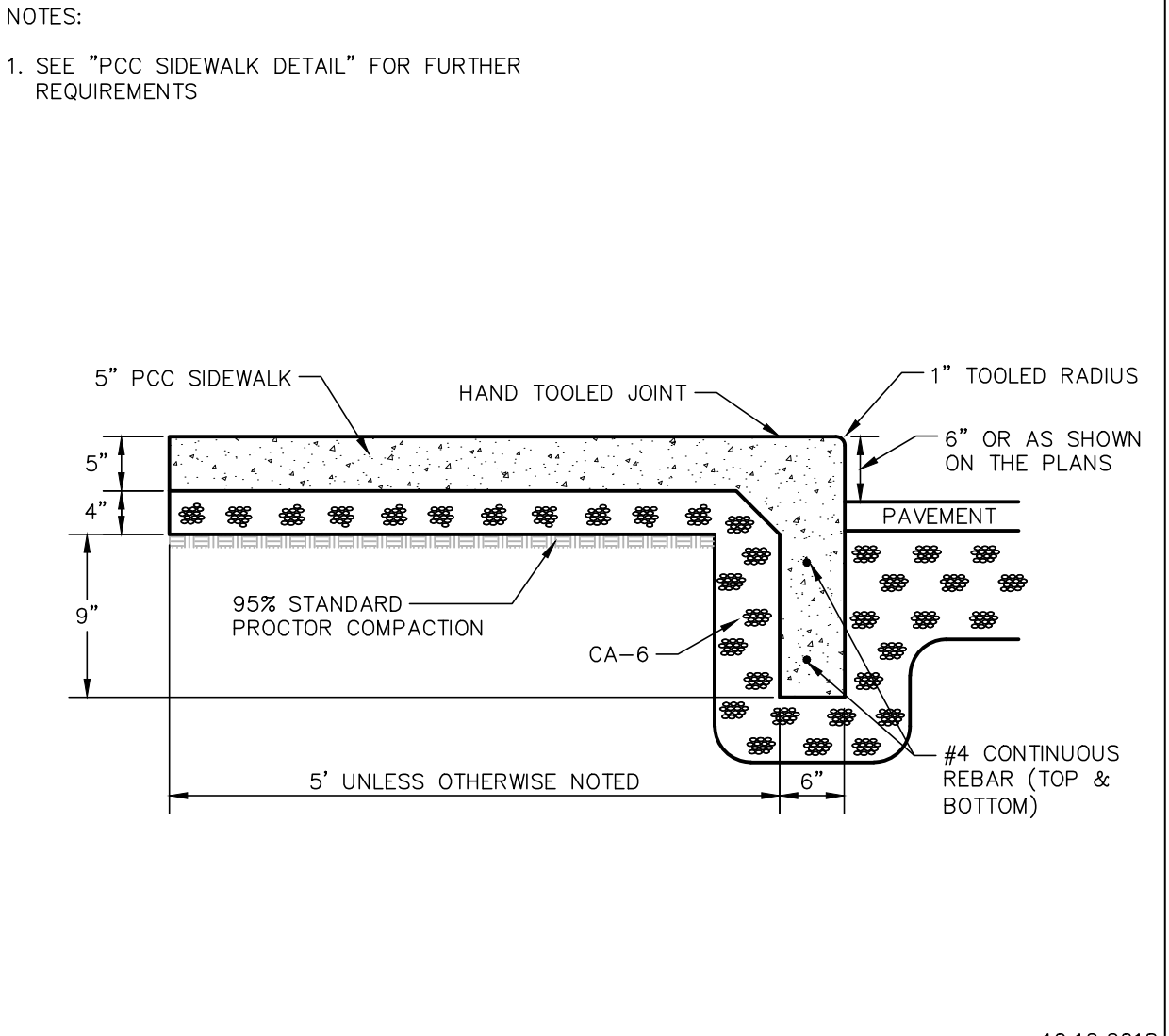
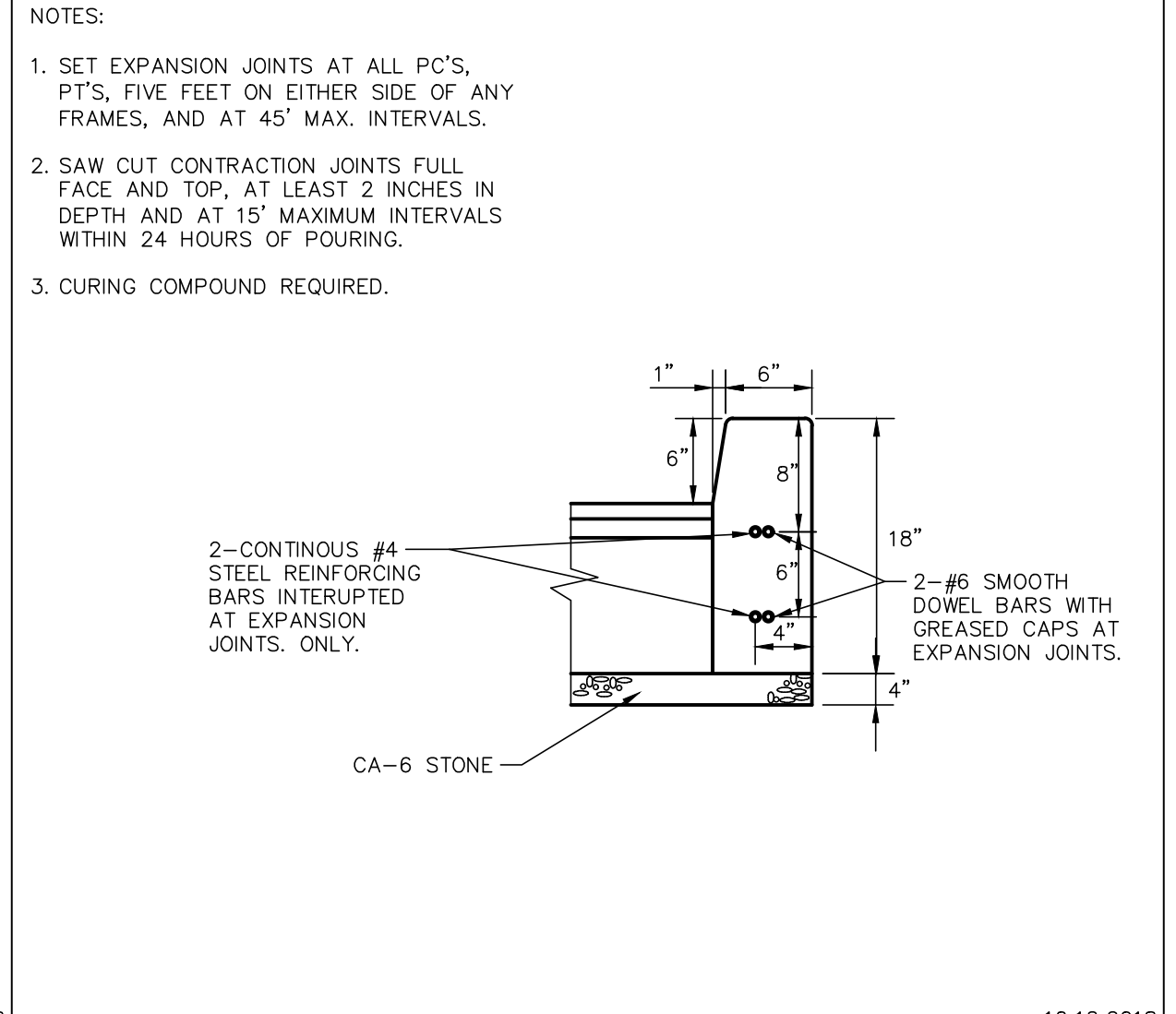
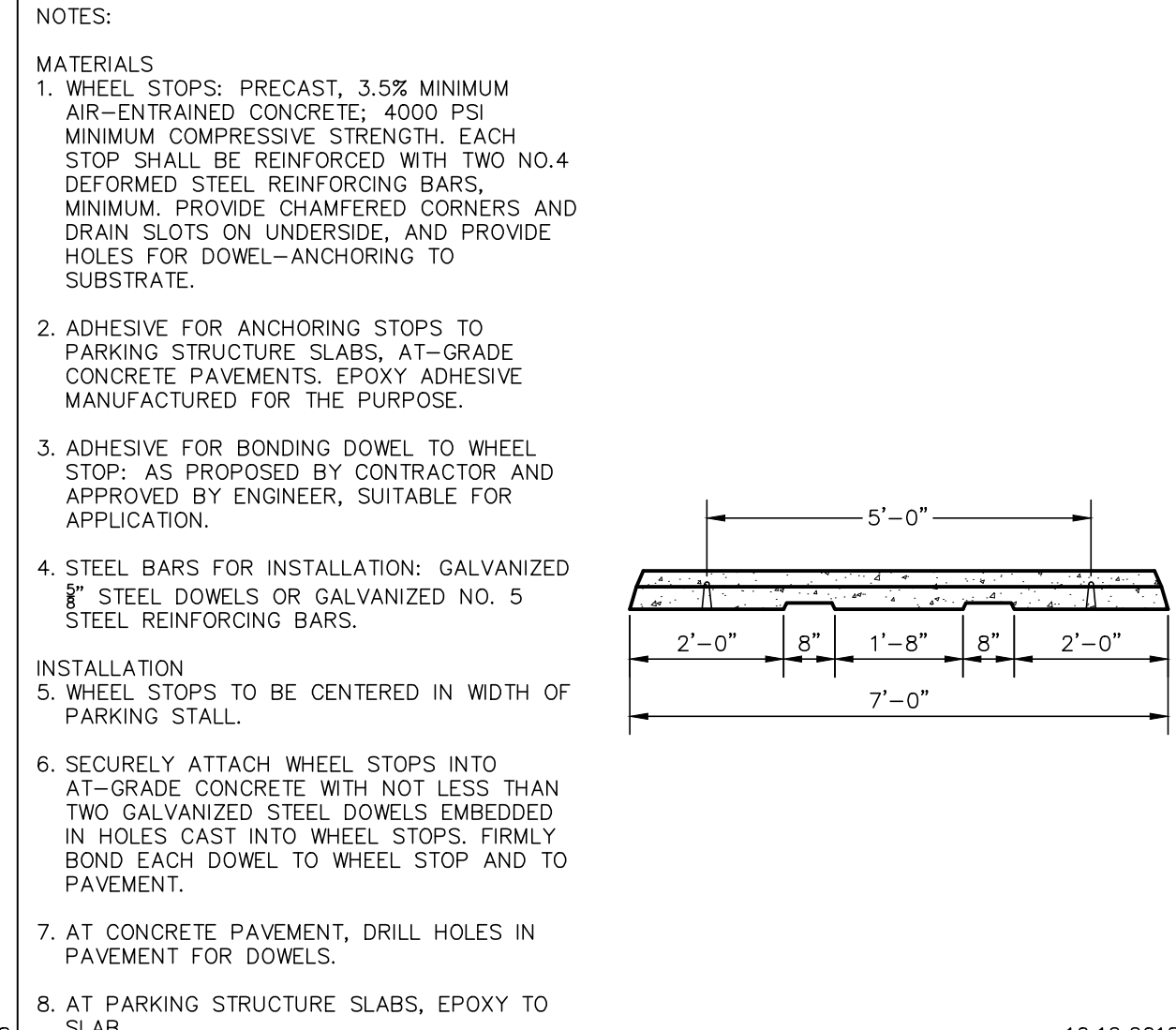
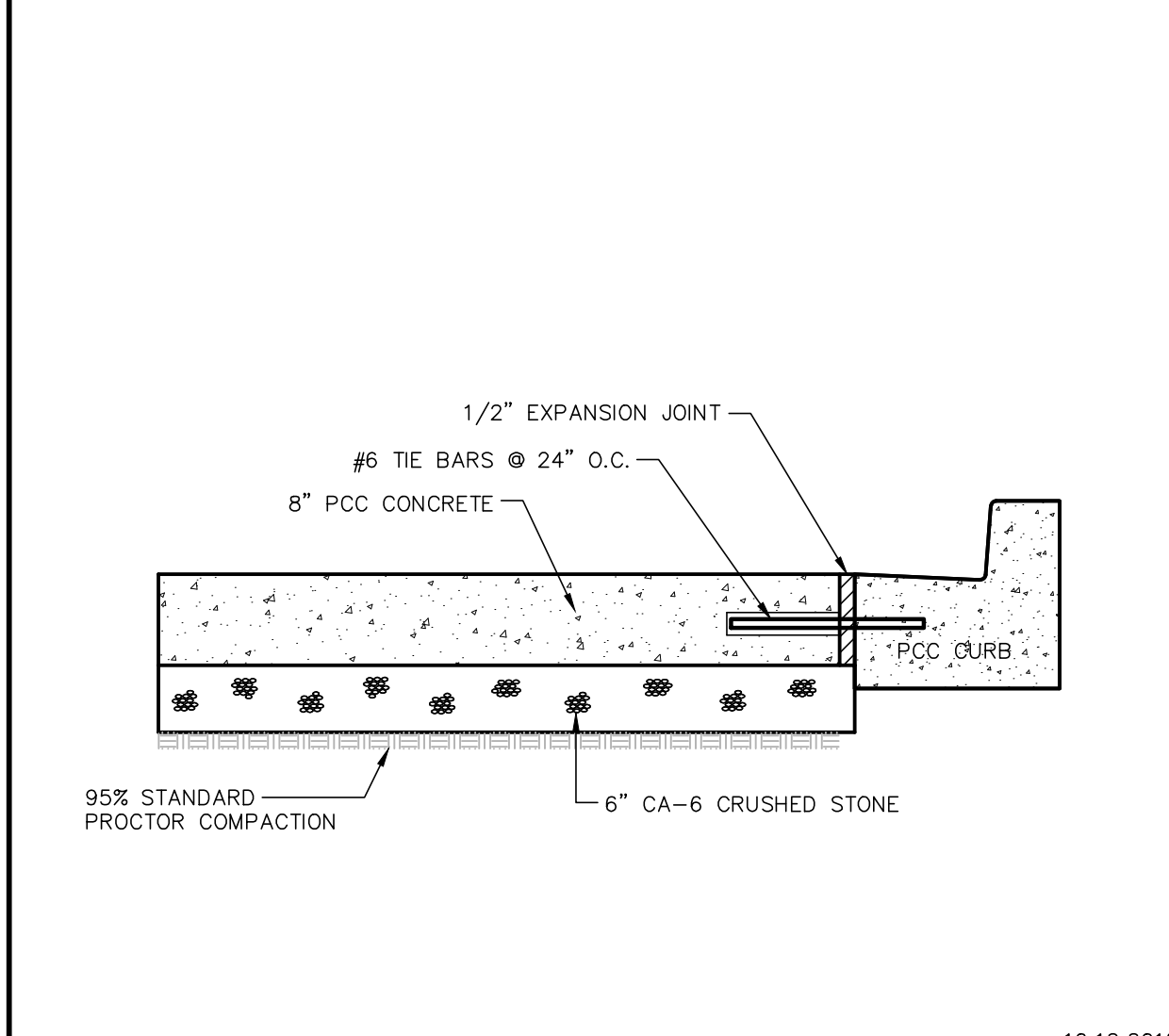
**EXPANSION JOINT DETAIL**



**PCC SIDEWALK DETAIL**



**PAVEMENT PATCH FOR NEW CURB INSTALLATION**



**PCC PAVEMENT DETAIL**



**WHEEL STOP**



**VERTICAL CURB**



**MONOLITHIC VERTICAL CURB**



**ACCESSIBLE PARKING DETAIL**

CONCRETE SIDEWALK/YARD NOTES:

- CONCRETE YARD PAVEMENT SHALL CONFORM TO SECTION 420 OF THE STANDARD SPECIFICATIONS UNLESS OTHERWISE NOTED BELOW. SIDEWALK CONSTRUCTION SHALL CONFORM TO SECTION 424.
- SUBGRADE PREPARATION SHALL CONSIST OF AN AGGREGATE BASE COURSE, TYPE B CONFORMING TO SECTION 351 AGGREGATE BASE COURSE, TO A THICKNESS OF 6".
- PORTLAND CEMENT CONCRETE FOR CONSTRUCTION OF SIDEWALKS AND YARD AREA SHALL CONFORM TO SECTION 1020.04 CONCRETE CLASSES AND GENERAL MIX DESIGN CRITERIA, TABLE A, CLASS 'SI' CONCRETE.
- SIDEWALK AND YARD SHALL HAVE A CURING COMPOUND APPLIED AS STATED IN SECTION 1020.12(c)(4) MEMBRANE CURING METHOD. NOTE: CURING PERIOD IS 3 DAYS.
- THE CONCRETE CURING MATERIALS SHALL CONFORM TO SECTION 1022(d) LINSSEED OIL EMULSION. CERTIFICATION OF CURING MATERIAL IS REQUIRED PRIOR TO APPLICATION.
- ALL SAWED JOINTS REQUIRED FOR CONCRETE YARD CONSTRUCTION WILL BE SAWED TO A DEPTH OF 1.25" NOT MORE 24 HOURS AFTER HARDENING AND NOT LESS THAN TO PROVIDE SUFFICIENT TIME TO PREVENT EXCESSIVE RAVELING. EXPANSION JOINTS TO BE CONSTRUCTED PER DETAIL.
- JUST PRIOR TO SEALING, EACH JOINT SHALL BE THOROUGHLY CLEANED OF ALL FOREIGN MATERIAL. THE JOINT FACES SHALL BE CLEANED AND SURFACE DRY WHEN SEAL IS APPLIED. IF APPLIED HOT, MATERIAL SHALL BE STIRRED DURING HEATING TO PREVENT LOCALIZED OVERHEATING. THE SEALING MATERIAL SHALL BE APPLIED TO EACH JOINT OPENING WITHOUT SPILLING ON THE EXPOSED CONCRETE SURFACES. JOINT SEALANT SHALL CONFORM TO SECTION 1058.
- ADD 1 POUND POLYPROPYLENE FIBER REINFORCEMENT PER CUBIC YARD OF CONCRETE. FIBERS PROVIDED BY W.R. GRACE OR APPROVED EQUAL.
- PCC PAVEMENT AND SIDEWALK TO BE FINISHED WITH A MEDIUM BROOM FINISH.

ASSOCIATES, INC.

COPYRIGHT NOTICE

This drawing is the property of Gewalt-Hamilton Assoc., Inc. and is not to be used for any purpose other than the specific project and site named herein, and cannot be reproduced in any manner without the express written permission from Gewalt-Hamilton Associates, Inc.

**DETAILS**

**BIRCHWOOD PARK IMPROVEMENTS  
PALATINE PARK DISTRICT  
435 W. ILLINOIS AVENUE, PALATINE, ILLINOIS**

NO.	BY	DATE	REVISION

NO.	BY	DATE	REVISION

FILE	SHEET NUMBER:
DRAWN BY: GHA DATE: 05.04.21	GHA PROJECT # 5241.212
CHECKED BY: TAR DATE: 05.04.21	SCALE: N.A.
	<b>24</b> OF 25 SHEETS

625 Forest Edge Drive ■ Vernon Hills, IL. 60061  
TEL 847.478.9700 ■ FAX 847.478.9701

ASSOCIATES, INC.

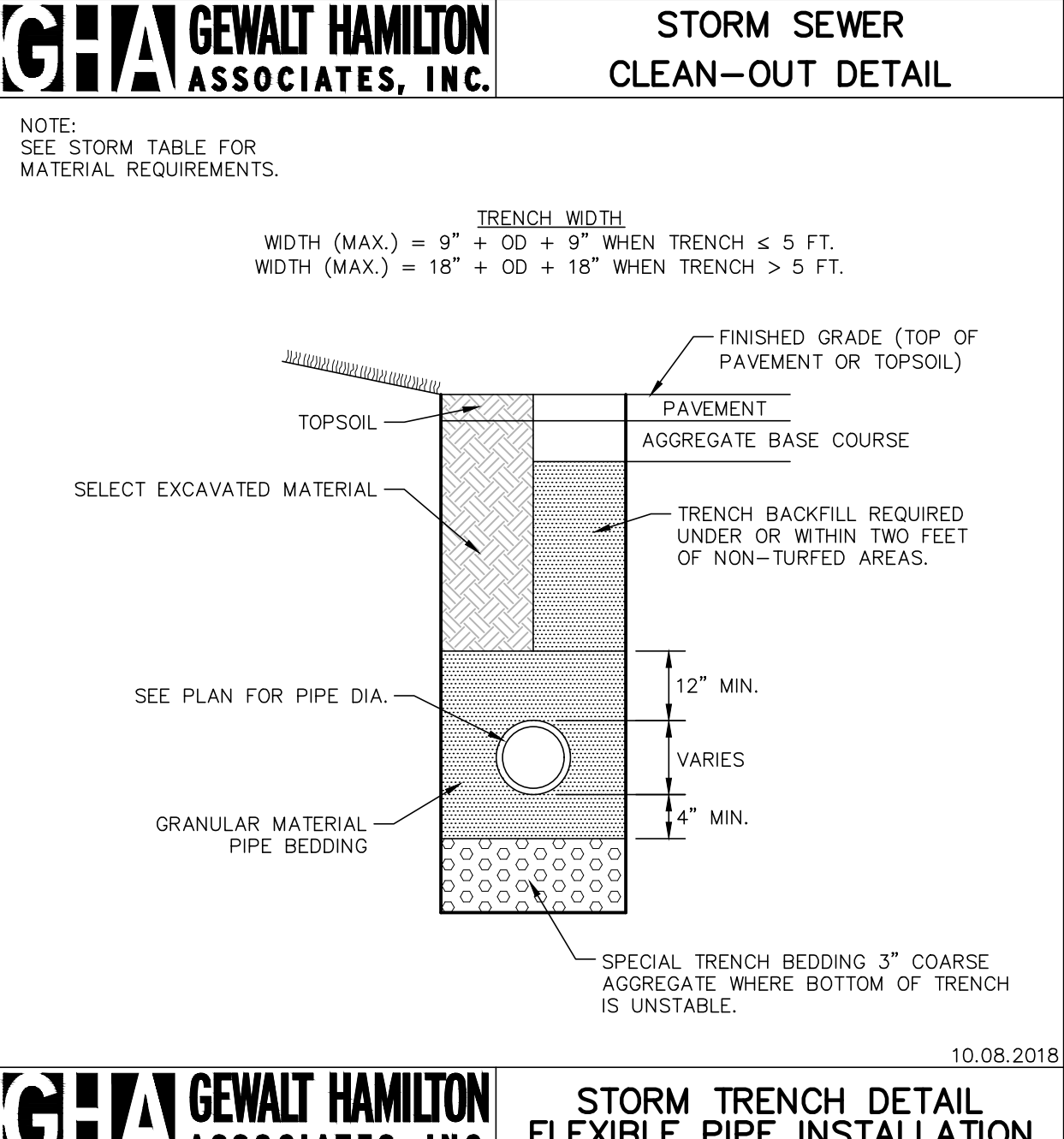
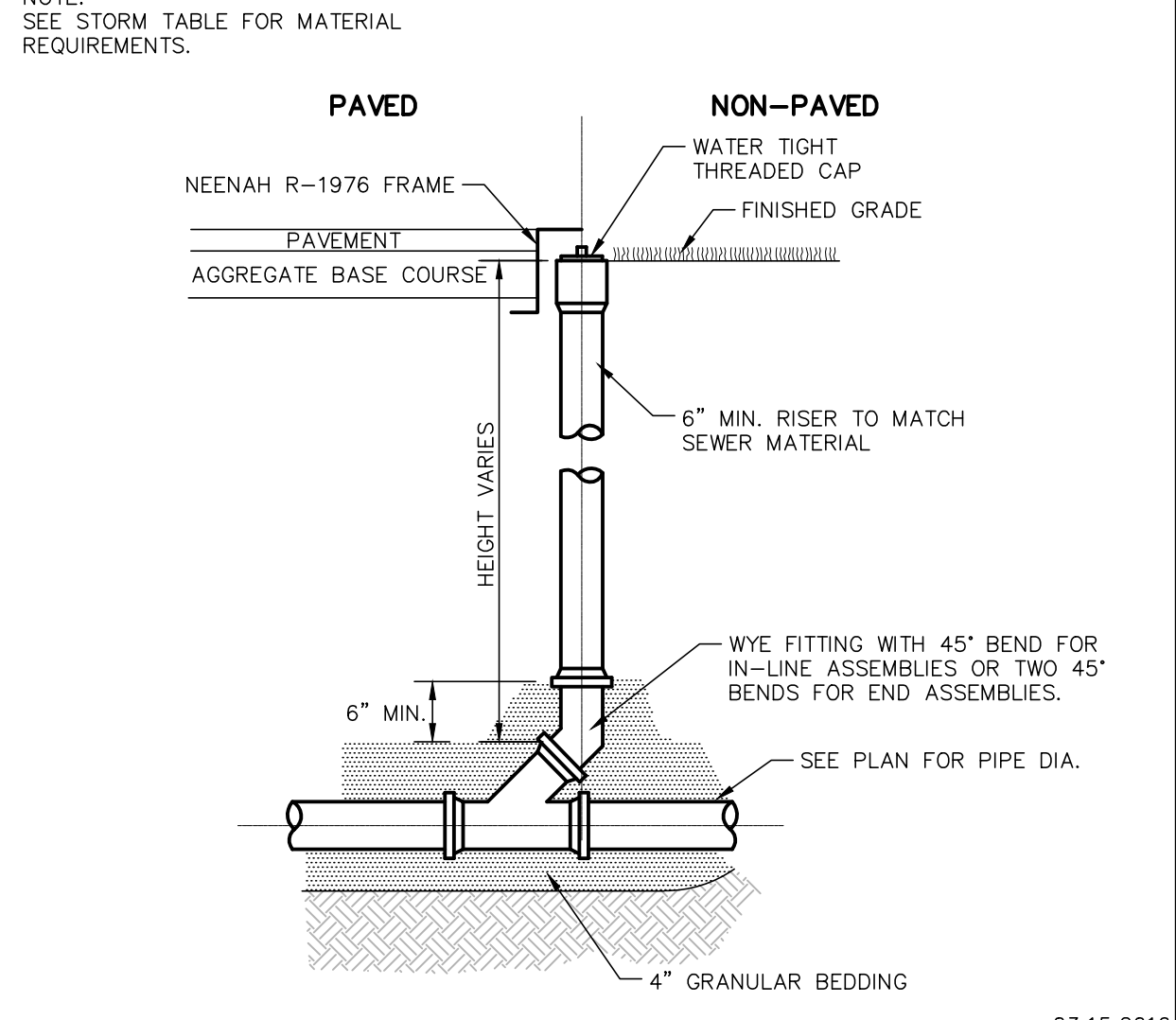
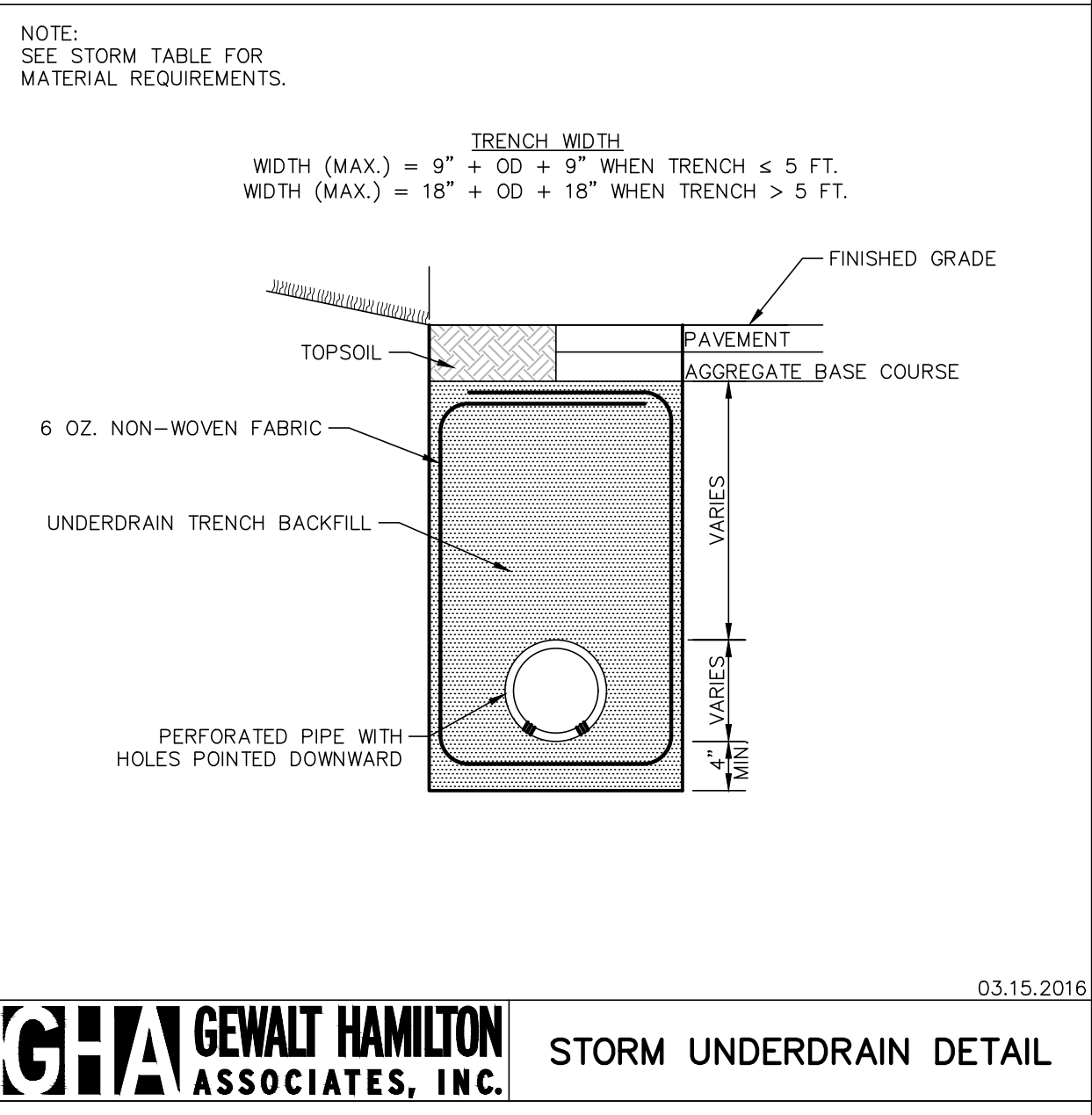
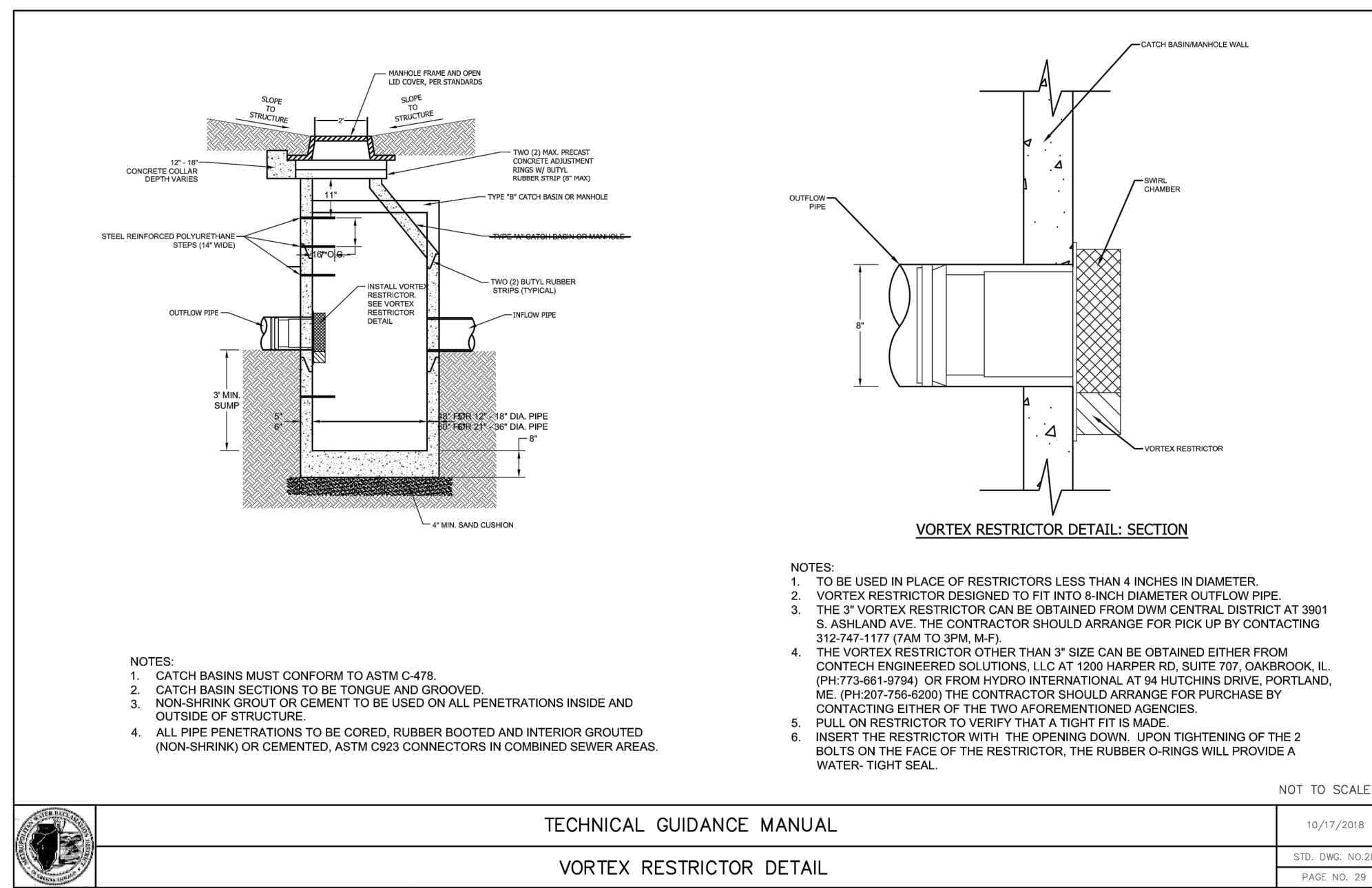
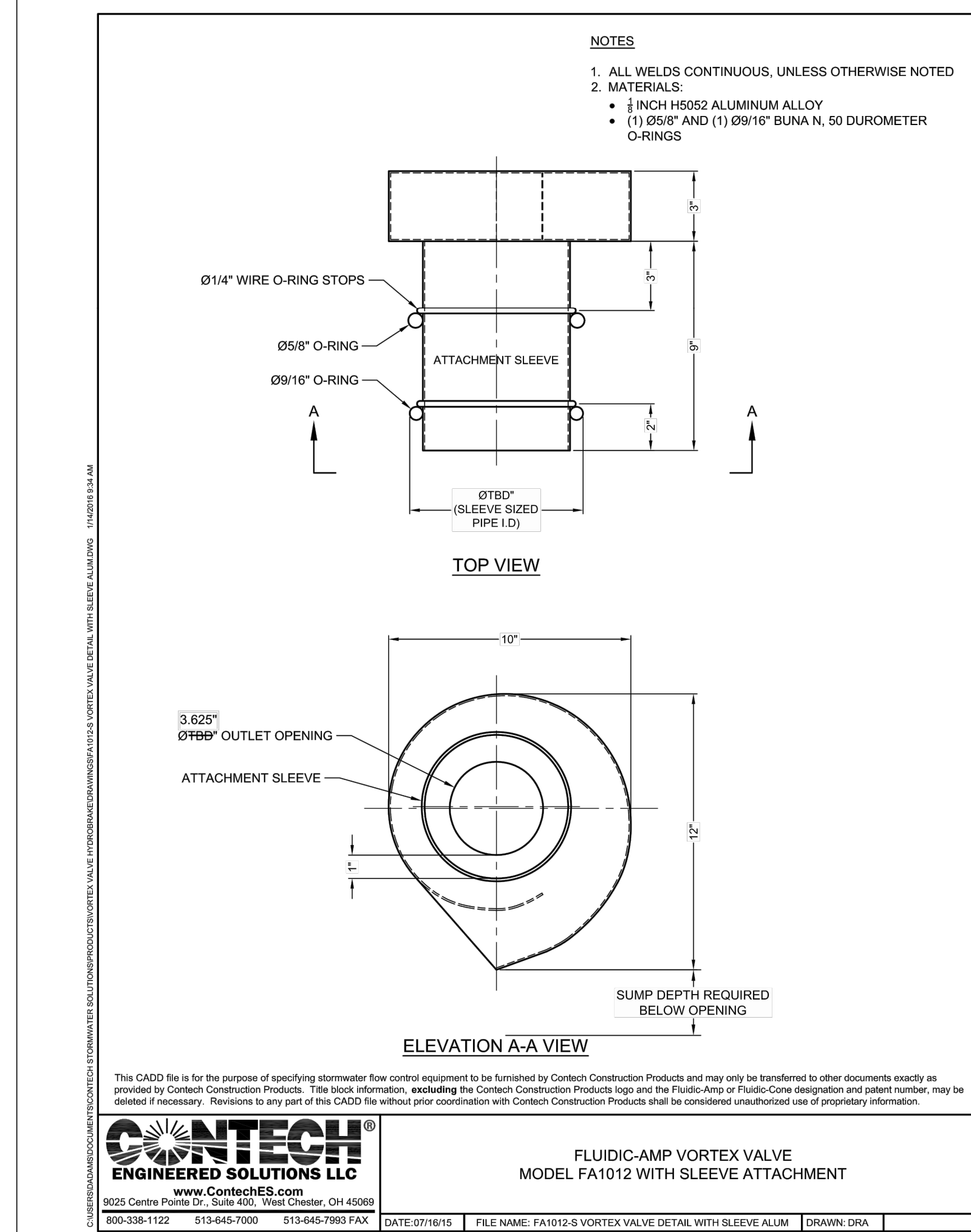
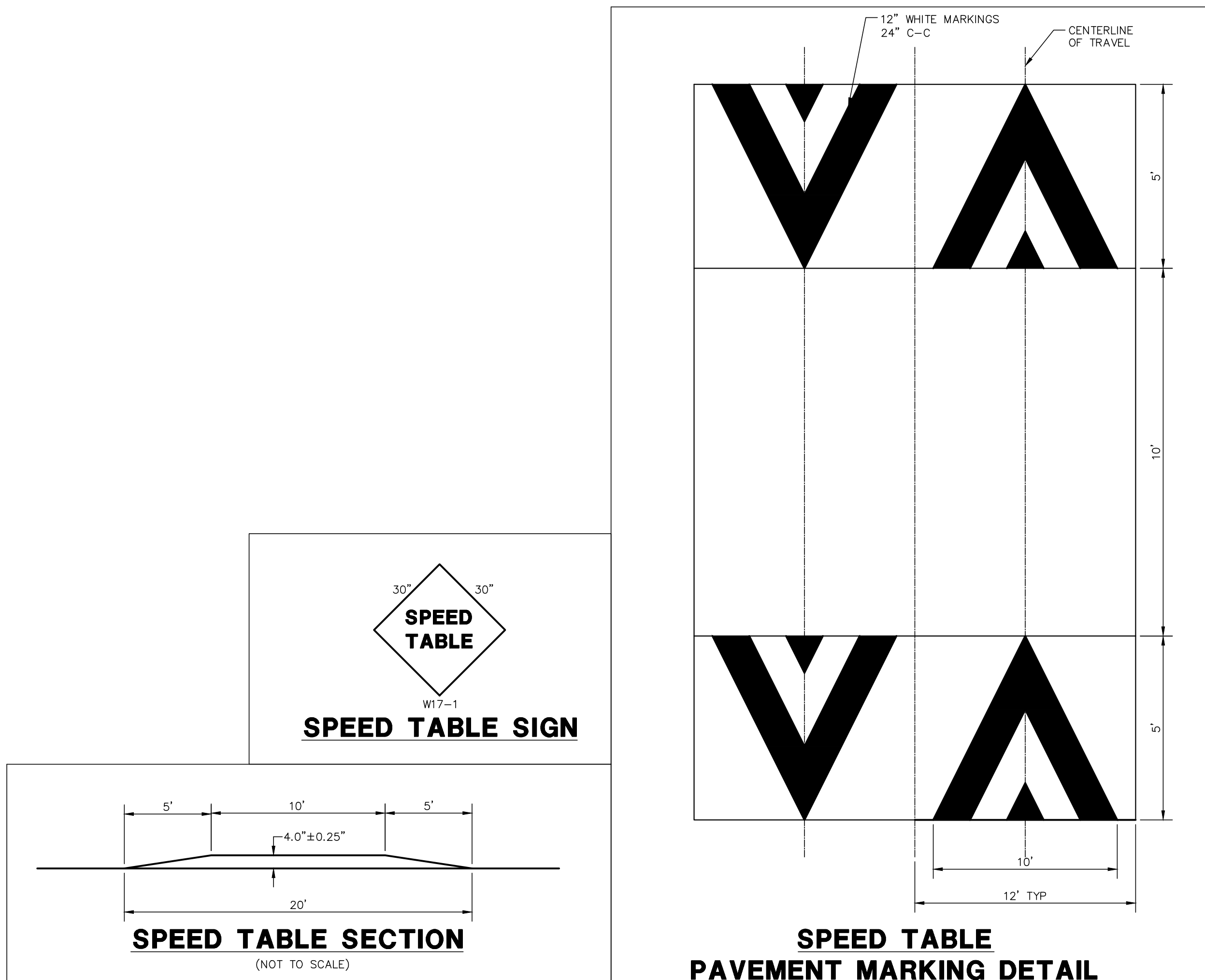
**DETAILS**

**BIRCHWOOD PARK IMPROVEMENTS  
PALATINE PARK DISTRICT  
435 W. ILLINOIS AVENUE, PALATINE, ILLINOIS**

NO.	BY	DATE	REVISION

FILE	SHEET NUMBER:
DRAWN BY: GHA DATE: 05.04.21	GHA PROJECT # 5241.212
CHECKED BY: TAR DATE: 05.04.21	SCALE: N.A.
	<b>24</b> OF 25 SHEETS

6/23/2021 11:23 AM  
 BIRCHWOOD PARK IMPROVEMENTS ENGINEERING S241.212 - DT.DWG  
 6/23/2021 11:23 AM



**GHA GEWALT HAMILTON ASSOCIATES, INC.**  
625 Forest Edge Drive ■ Vernon Hills, IL. 60061  
TEL 847.478.9700 ■ FAX 847.478.9701

**COPYRIGHT NOTICE**  
This drawing is the property of Gewalt-Hamilton Assoc., Inc. and is not to be used for any purpose other than the specific project and site named herein, and cannot be reproduced in any manner without the express written permission from Gewalt-Hamilton Associates, Inc.

**DETAILS**  
**BIRCHWOOD PARK IMPROVEMENTS  
PALATINE PARK DISTRICT  
435 W. ILLINOIS AVENUE, PALATINE, ILLINOIS**

NO.	BY	DATE	REVISION	NO.	BY	DATE	REVISION

**GHA GEWALT HAMILTON ASSOCIATES, INC.**

FILE	SHEET NUMBER:
DRAWN BY: GHA	GHA PROJECT #
DATE: 05.04.21	5241.212
CHECKED BY: TAR	SCALE:
DATE: 05.04.21	N.A.
	OF 25 SHEETS









