

1. COVER SHEET, INDEX OF SHEETS & STATE STANDARDS
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4. ALIGNMENT, TIES AND BENCHMARKS
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- 6.-10. PLAN & PROFILE SHEETS
11. STORM WATER POLLUTION PREVENTION PLAN
12. CONSTRUCTION DETAILS
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- 23.-32. CROSS SECTIONS

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**  
**DIVISION OF HIGHWAYS**

# PLANS FOR PROPOSED FEDERAL AID HIGHWAY

THREE RIVERS TRAIL  
**MCEVILLY ROAD (FAU 0393)**  
**LIONS PARK TO VISTA COURT**  
**MULTI-USE PATH**

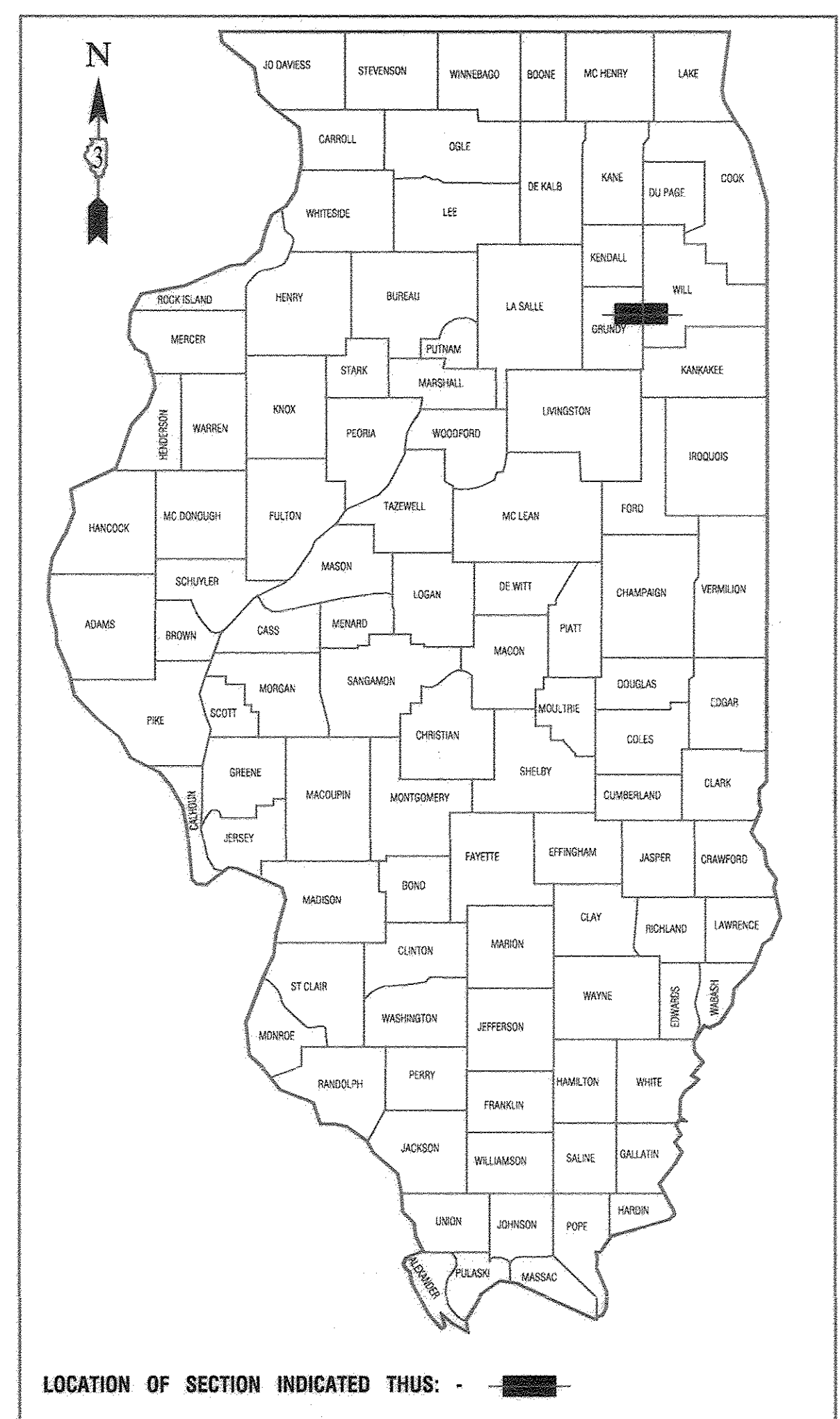
**ILLINOIS TRANSPORTATION ENHANCEMENT PROGRAM (ITEP)**  
**PROJECT NO.: TE-00D3 (093)**  
**SECTION NO.: 10-00056-00-BT**  
**VILLAGE of MINOOKA,**  
**GRUNDY/WILL COUNTY**  
**JOB NO.: C-93-112-15**

F. A. U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0393	10-00056-00-BT	GRUNDY/WILL	32	1
STA.	TO STA.			
FED. ROAD DIST. NO. 3	PLANING	FED. AID PROJECT	TE-00D3 (093)	

CONTRACT #87631

**HIGHWAY STANDARDS**

000001-06	STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
424001-08	PERPENDICULAR CURB RAMPS FOR SIDEWALKS
542401-02	METAL END SECTION FOR PIPE CULVERTS
701001-02	OFF-RD OPERATIONS, 2L, 2W, MORE THAN 15' (4.5m) AWAY
701006-05	OFF-RD OPERATIONS, 2L, 2W, 15' (4.5m) TO 24" (600 mm) FROM PAVEMENT EDGE
701011-04	OFF-RD MOVING OPERATIONS, 2L, 2W, DAY ONLY
701201-04	LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS > 45 MPH
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701901-05	TRAFFIC CONTROL DEVICES
BLR 23-4	TRAFFIC BARRIER TERMINAL TYPE 1



STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION  
 DIVISION OF HIGHWAYS

Approved: *Peter J. Brennan*  
 8/31/16  
 President, Village of MINOOKA.

Passed: *David R. E.*  
 9/2/16  
 District 3 Engineer of Local Roads & Streets

Released for Bid Based on Limited Review: *Kevin Machbe*  
 9/2/16  
 Region 2 Engineer

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 THE STATE OF ILLINOIS

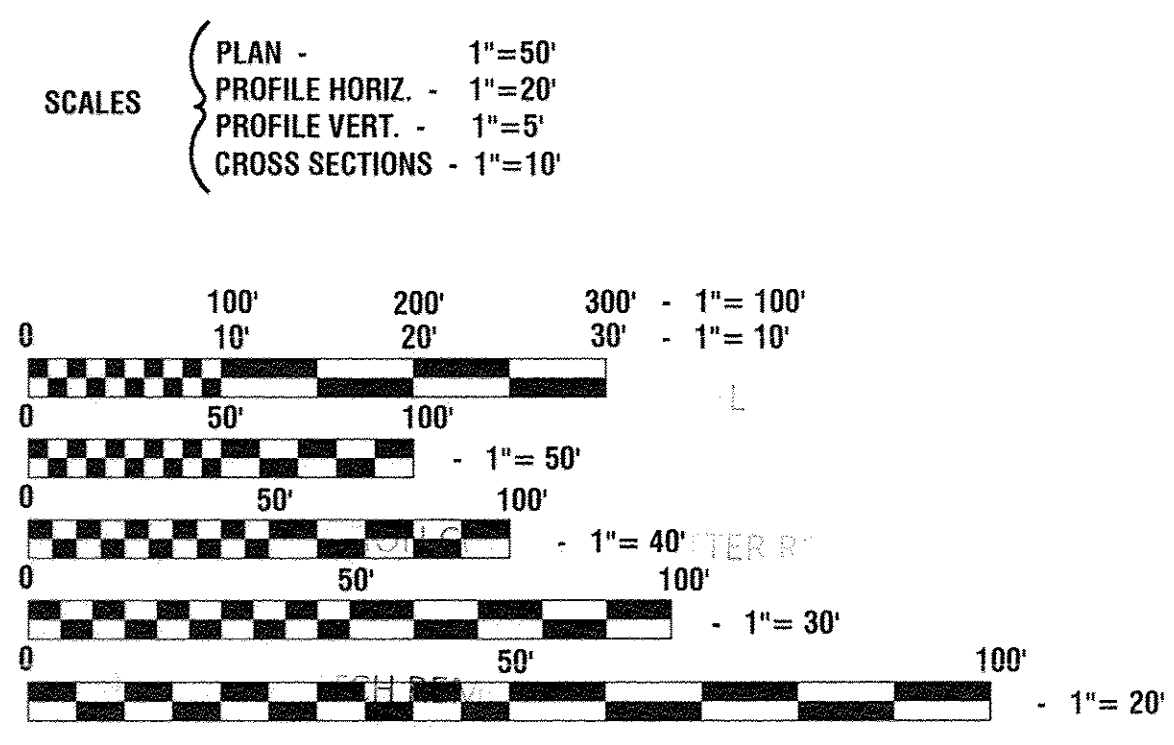
PREPARED BY OR UNDER THE  
 DIRECT SUPERVISION OF:



*Kevin Biscan*  
 8/31/16

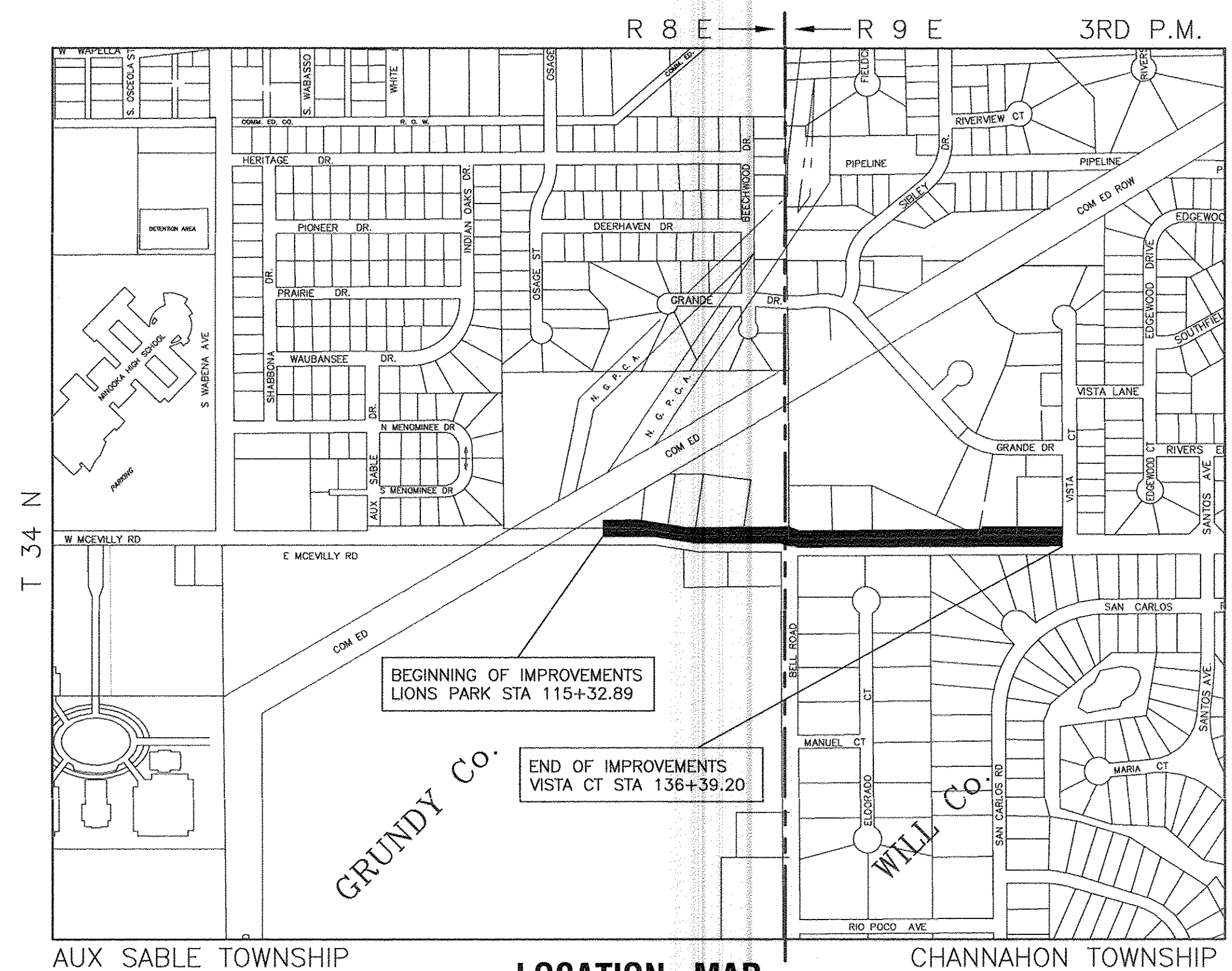
LICENSE EXPIRES: 11/30/17

	McEVILLY ROAD	OFF-STREET PATH
2012 ADT -	6,200	0
2040 ADT -	7,000	100
POSTED SPEED LIMIT -	35/45 mph	N/A
DESIGN PERIOD -	20 YEARS	20 YEARS
DESIGN SPEED LIMIT -	45 mph	20 mph
STREET CLASSIFICATION -	MINOR ARTERIAL	N/A



FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES, REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES, IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

J. U. L. I. E.  
 JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION  
 1-800-892-0123 or 811



I.D.O.T. FEDERAL AID DESIGN ENGINEER:  
 CONSULTANTS: ROBINSON ENGINEERING, LTD. 708-331-6700

**CONTRACT NO. 87631**



SUMMARY OF QUANTITIES					CONSTRUCTION TYPE CODE
S.I.	CODE NO.	PAY ITEM	UNIT	QUANTITY	0028
	20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	42.00	
	20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	27.00	
	20100500	TREE REMOVAL, ACRES	ACRE	0.24	
	20200100	EARTH EXCAVATION	CU YD	1800.00	
	20800150	TRENCH BACKFILL	CU YD	50.00	
△	21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	7100.00	
	28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	150.00	
	28000305	TEMPORARY DITCH CHECKS	FOOT	120.00	
	28000400	PERIMETER EROSION BARRIER	FOOT	1990.00	
	28000500	INLET AND PIPE PROTECTION	EACH	2.00	
	28100105	STONE RIPRAP, CLASS A3	SQ YD	45.00	
	35101800	AGGREGATE BASE COURSE, TYPE B 6"	SQ YD	2610.00	
	40201000	AGGREGATE FOR TEMPORARY ACCESS	TON	50.00	
	40600275	BITUMINOUS MATERIALS (PRIME COAT)	POUND	6075.00	
	40603310	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	TON	395.00	
	40800050	INCIDENTAL HOT-MIX ASPHALT SURFACING	TON	75.00	
	42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	251.00	
△	42400800	DETECTABLE WARNINGS	SQ FT	40.00	
	44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	430.00	
	44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	26.00	
	44004000	PAVED DITCH REMOVAL	FOOT	156.00	
	50102400	CONCRETE REMOVAL	CU YD	25.00	
	50105220	PIPE CULVERT REMOVAL	FOOT	441.00	

\* - INDICATES SPECIALTY ITEMS

SUMMARY OF QUANTITIES					CONSTRUCTION TYPE CODE
S.I.	CODE NO.	PAY ITEM	UNIT	QUANTITY	0028
	50200100	STRUCTURE EXCAVATION	CU YD	200.00	
	50300225	CONCRETE STRUCTURES	CU YD	320.00	
△	50500505	STUD SHEAR CONNECTORS	EACH	1856.00	
△	50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	47000.00	
△	52200100	FURNISHING SOLDIER PILES (HP SECTION)	FOOT	5492.00	
△	52200150	DRIVING SOLDIER PILES	FOOT	5492.00	
△	52200250	UNTREATED TIMBER LAGGING	SQ FT	2500.00	
	54001001	BOX CULVERT END SECTIONS, CULVERT NO. 1	EACH	1.00	
	54010604	PRECAST CONCRETE BOX CULVERTS 6' X 4'	FOOT	12.00	
	54205047	PIPE CULVERTS, SPECIAL 12"	FOOT	43.00	
	54205050	PIPE CULVERTS, SPECIAL 15"	FOOT	34.00	

**GENERAL NOTES**

- BOTH THE ROBINSON ENGINEERING, LTD. FIELD OFFICE (708-331-6700) AND RYAN ANDERSON AT THE VILLAGE OF MINOOKA (815-467-8868) SHALL BE NOTIFIED TWO (2) WORKING DAYS BEFORE CONSTRUCTION BEGINS.
- AREAS DISTURBED BY CONSTRUCTION SHALL BE KEPT TO A MINIMUM. ALL AREAS DISTURBED UNNECESSARILY SHALL BE RESTORED AS REQUIRED IN THE SPECIAL PROVISION AT THE CONTRACTOR'S EXPENSE.
- ACCESS TO EXISTING DRIVEWAYS, PATHS, AND ALL PUBLIC FACILITIES SHALL BE MAINTAINED AT ALL TIMES BY PLACEMENT OF TEMPORARY AGGREGATE. THE CONTRACTOR SHALL PERIODICALLY MONITOR ALL AFFECTED AREAS DURING THE PROJECT, AND SHALL PLACE ADDITIONAL AGGREGATE WHEN NECESSARY.
- UTILITIES INDICATED ON THE PLANS ARE PROVIDED FOR THE CONTRACTOR'S USE AND ARE BASED UPON INFORMATION AVAILABLE AT THE TIME OF THE ADVERTISEMENT FOR BIDS. THE OWNER AND ENGINEER DO NOT GUARANTEE THE ACCURACY OF UTILITIES INFORMATION. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY J.U.L.I.E. AT LEAST 48 HOURS PRIOR TO EXCAVATION TO VERIFY LOCATIONS OF ALL UTILITIES. IF DETERMINED NECESSARY UTILITY RELOCATIONS SHALL BE PERFORMED BY PRIVATE UTILITY OWNERS. NO ADDITIONAL COMPENSATION SHALL BE ALLOWED DUE TO DELAYS OR INCONVENIENCES CAUSED BY SUCH ADJUSTMENTS.
- CONTRACTOR SHALL BE RESPONSIBLE AT ALL TIMES FOR TRAFFIC CONTROL AND PROTECTION IN ACCORDANCE WITH IDOT STANDARD SPECIFICATIONS ADOPTED APRIL 1, 2016, THE LATEST EDITION OF THE ILLINOIS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS, AND THE STANDARD SPECIFICATIONS FOR TRAFFIC CONTROL ITEMS. TRAFFIC CONTROL AND PROTECTION WILL BE PAID FOR AS TRAFFIC CONTROL AND PROTECTION (SPECIAL).
- THE TOP OF ALL STRUCTURES SHALL BE FLUSH WITH THE ADJACENT SURFACE OR THE INDICATED ELEVATION SHOWN ON THE PLANS. FRAME ELEVATIONS ARE GIVEN ONLY TO ASSIST IN DETERMINING THE OVERALL HEIGHT OF THE STRUCTURE. FRAMES ON ALL NEW STRUCTURES SHALL BE ADJUSTED TO THE FINAL SURFACE ELEVATION AS PART OF THE NEW STRUCTURE COST.
- ITEMS OF WORK LISTED IN THE SUMMARY OF QUANTITIES NOT SPECIFICALLY CALLED OUT ON THE PLANS SHALL BE PERFORMED AS DIRECTED BY THE ENGINEER.
- WHEN EXISTING DRAINAGE FACILITIES ARE DISTURBED THE CONTRACTOR SHALL PROVIDE AND MAINTAIN TEMPORARY OUTLETS AND CONNECTION FOR ALL PRIVATE OR PUBLIC DRAINS, SEWERS OR CATCH BASINS. HE SHALL PROVIDE FACILITIES TO TAKE ALL STORM WATER WHICH WILL BE RECEIVED BY THESE DRAINS AND SEWERS AND DISCHARGE SAME.
- THE CONTRACTOR SHALL MAKE EVERY ATTEMPT NOT TO DAMAGE EXISTING TREES.
- CONTRACTOR SHALL PROVIDE THE ENGINEER WITH VIDEOTAPE DETAILING ALL SURFACE CONDITIONS WITHIN THE PROJECT AREA PRIOR TO EXCAVATION. ALL RESTORATION SHALL BE COMPLETED TO THE SATISFACTION OF THE OWNER AND ENGINEER.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.
- THE REMOVAL AND/OR REPLACEMENT OF ANY DRIVEWAYS, PAVEMENT, CURB, SIDEWALK, ECT. SHALL BE ACCOMPLISHED BY MEANS OF A SAW CUT JOINT, AT THE DIRECTION OF THE ENGINEER. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE UNIT PRICE FOR THE VARIOUS ITEMS BEING REMOVED.
- ANY LOOSE MATERIAL DEPOSITED IN THE FLOW LINE OF DITCHES, GUTTERS OR OTHER DRAINAGE STRUCTURES SHALL BE REMOVED BY THE END OF EACH DAY BY THE CONTRACTOR AT THEIR EXPENSE.
- ANY NECESSARY BUSH AND BRUSH REMOVAL/CLEARING WILL BE INCLUDED IN THE COST OF EARTH EXCAVATION.
- ADDITIONAL 6 INCHES OF TOPSOIL STRIPPING IN AREAS OF FILL WILL BE PAID FOR AS EARTH EXCAVATION.



SUMMARY OF QUANTITIES					CONSTRUCTION TYPE CODE
S.I.	CODE NO.	PAY ITEM	UNIT	QUANTITY	0028
	54213657	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 12"	EACH	3.00	
	54213663	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 18"	EACH	2.00	
	54213681	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 36"	EACH	1.00	
	54215547	METAL END SECTIONS 12"	EACH	2.00	
	54215550	METAL END SECTIONS 15"	EACH	2.00	
	54248510	CONCRETE COLLAR	CU YD	2.00	
	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	FOOT	40.00	
	550A0090	STORM SEWERS, CLASS A, TYPE 1 18"	FOOT	53.00	
	550A0120	STORM SEWERS, CLASS A, TYPE 1 24"	FOOT	289.00	
	550A0160	STORM SEWERS, CLASS A, TYPE 1 36"	FOOT	47.00	
△	59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	1000.00	
	60108104	PIPE UNDERDRAINS, TYPE 1, 4"	FOOT	900.00	
	60206600	CATCH BASINS, TYPE B, TYPE 7 GRATE	EACH	1.00	
	60221000	MANHOLES, TYPE A, 5'-DIAMETER, TYPE 1 FRAME, OPEN LID	EACH	1.00	
	60224005	MANHOLES, TYPE A, 6'-DIAMETER, TYPE 8 GRATE	EACH	2.00	
	60603800	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12	FOOT	26.00	
	60615400	PAVED DITCH, TYPE A-15	FOOT	52.00	
*	63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	4.00	
	63200310	GUARDRAIL REMOVAL	FOOT	65.00	
*	66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	20.00	
*	66900450	SPECIAL WASTE PLANS AND REPORTS	LSUM	1.00	
*	66900530	SOIL DISPOSAL ANALYSIS	EACH	1.00	
	67100100	MOBILIZATION	LSUM	1.00	

\* - INDICATES SPECIALTY ITEMS  
 △ - INDICATES SPECIAL PROVISIONS

SUMMARY OF QUANTITIES					CONSTRUCTION TYPE CODE
S.I.	CODE NO.	PAY ITEM	UNIT	QUANTITY	0028
*	72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	7.00	
*	LR631020	TRAFFIC BARRIER TERMINAL, TYPE 1	EACH	4.00	
△ *					
△	X5860110	GRANULAR BACKFILL FOR STRUCTURES	CU YD	2235.00	
△ *	X6300120	STEEL PLATE BEAM GUARDRAIL, 6 FOOT POSTS, SPECIAL	FOOT	430.00	
△ *	X6330735	STEEL PLATE BEAM GUARDRAIL ADJUSTMENT	FOOT	350.00	
△	X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	LSUM	1.00	
△ *	XX000503	SPLIT RAIL FENCE	FOOT	875.00	
△	XX006343	SEEDING (COMPLETE)	SQ YD	7100.00	

\* - INDICATES SPECIALTY ITEMS

FILE NAME = 11289-QUAN-01 - IDOT Q1 (2)

USER NAME =	DESIGNED -- KJB	REVISED --
	CHECKED -- HLG	REVISED --
PLOT SCALE =	DRAWN -- JJB	REVISED --
PLOT DATE = 4-19-16	CHECKED -- ACAD	REVISED --

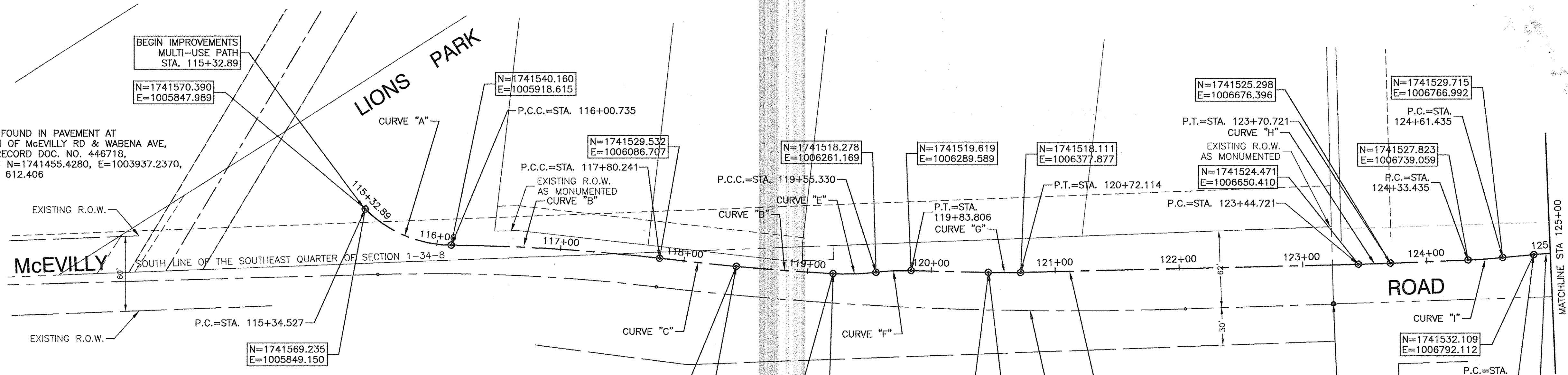
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

F.A.U. 0393 (MCEVILLY ROAD)  
 MULTI-USE PATH - LIONS PARK TO VISTA COURT  
 SUMMARY OF QUANTITIES & GENERAL NOTES

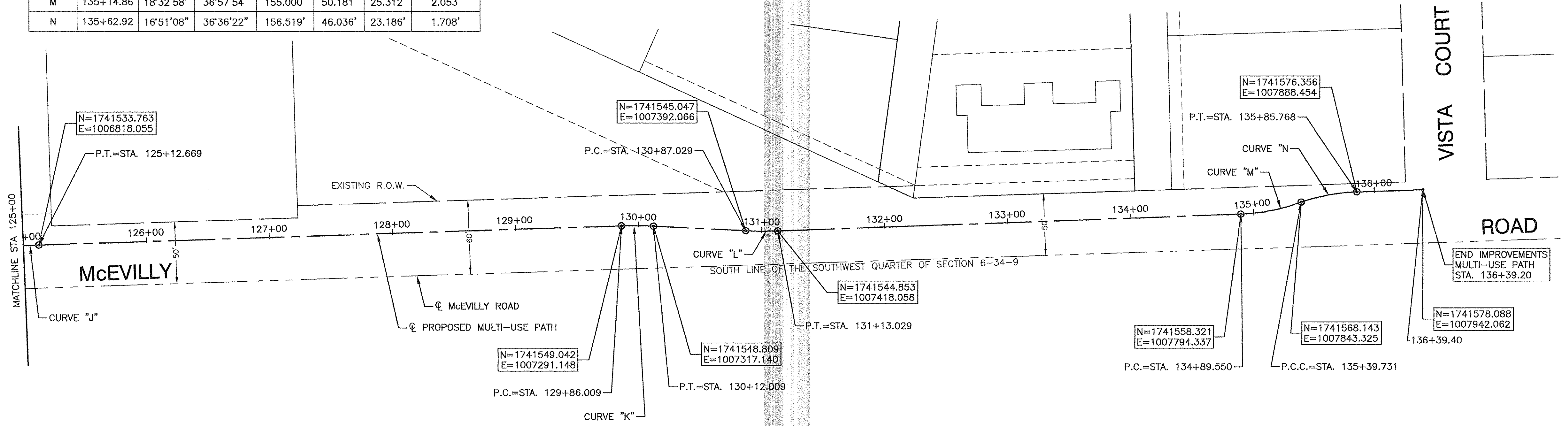
SCALE: NONE | SHEET NO. 3 OF 32 SHEETS | STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0393	10-00056-00-BT	GRUNDY/WILL	32	3
CONTRACT NO. 87631				
FED. ROAD DIST. NO. 3   ILLINOIS   FED. AID PROJECT TE-00D3 (093)				

BRASS DISK FOUND IN PAVEMENT AT INTERSECTION OF McEVILLY RD & WABENA AVE, MONUMENT RECORD DOC. NO. 446718, COORDINATES N=1741455.4280, E=1003937.2370, ELEVATION = 612.406



Curve Table: Alignments							
Curve #	PI Station	Delta	Degree Arc	Radius	Length	Tangent	Ext Ordinate
A	115+75.17	44°14'12"	57°17'45"	100.000'	77.208'	40.643'	7.944'
B	116+96.07	6°02'52"	3°35'21"	1596.398'	168.506'	84.331'	2.226'
C	118+11.36	1°14'37"	1°59'54"	2867.000'	62.233'	31.118'	0.169'
D	118+81.57	2°14'23"	2°51'53"	2000.000'	78.180'	39.095'	0.382'
E	119+38.04	9°56'02"	28°38'52"	200.000'	34.676'	17.381'	0.754'
F	119+69.59	8°09'28"	28°38'52"	200.000'	28.476'	14.262'	0.508'
G	120+59.12	2°42'55"	10°26'36"	548.636'	26.000'	13.002'	0.154'
H	123+57.72	0°58'15"	3°44'01"	1534.539'	26.000'	13.000'	0.055'
I	124+47.44	3°08'09"	11°11'56"	511.619'	28.000'	14.003'	0.192'
J	124+99.67	3°35'37"	13°49'17"	414.543'	26.000'	13.004'	0.204'
K	129+99.02	4°43'28"	18°10'15"	315.318'	26.000'	13.007'	0.268'
L	131+00.04	4°53'35"	18°49'11"	304.448'	26.000'	13.008'	0.278'
M	135+14.86	18°32'58"	36°57'54"	155.000'	50.181'	25.312'	2.053'
N	135+62.92	16°51'08"	36°36'22"	156.519'	46.036'	23.186'	1.708'



**BENCH MARK:**

BRASS DISK FOUND IN PAVEMENT COORDINATES N174192.8190, E1006630.4270  
SOUTHWEST CORNER OF BELL ROAD AND McEVILLY ROAD  
ELEVATION = 587.015

FILE NAME = 11283-TIES-01 - IDOT AL1

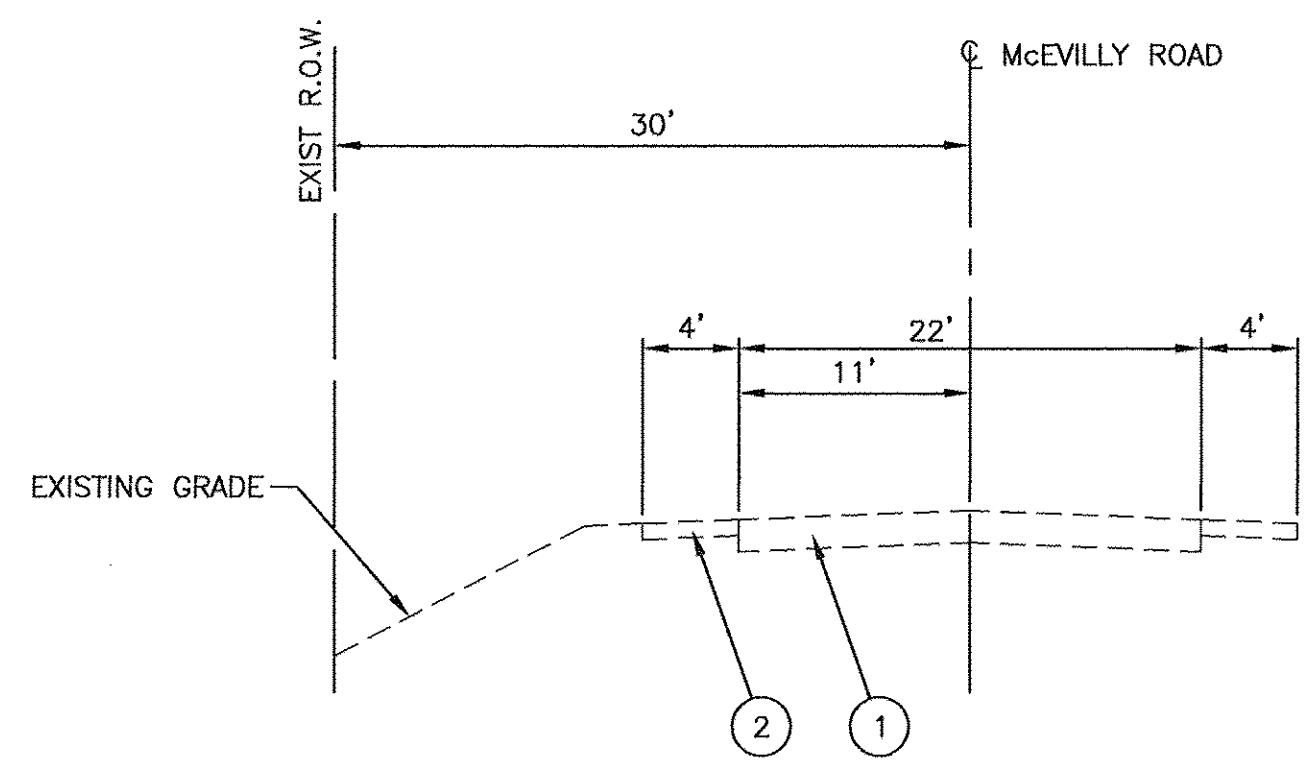
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	CHECKED -- HLG	REVISED --
PLOT SCALE =	DRAWN -- JJB	REVISED --
PLOT DATE = 4-19-16	CHECKED -- ACAD	REVISED --

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

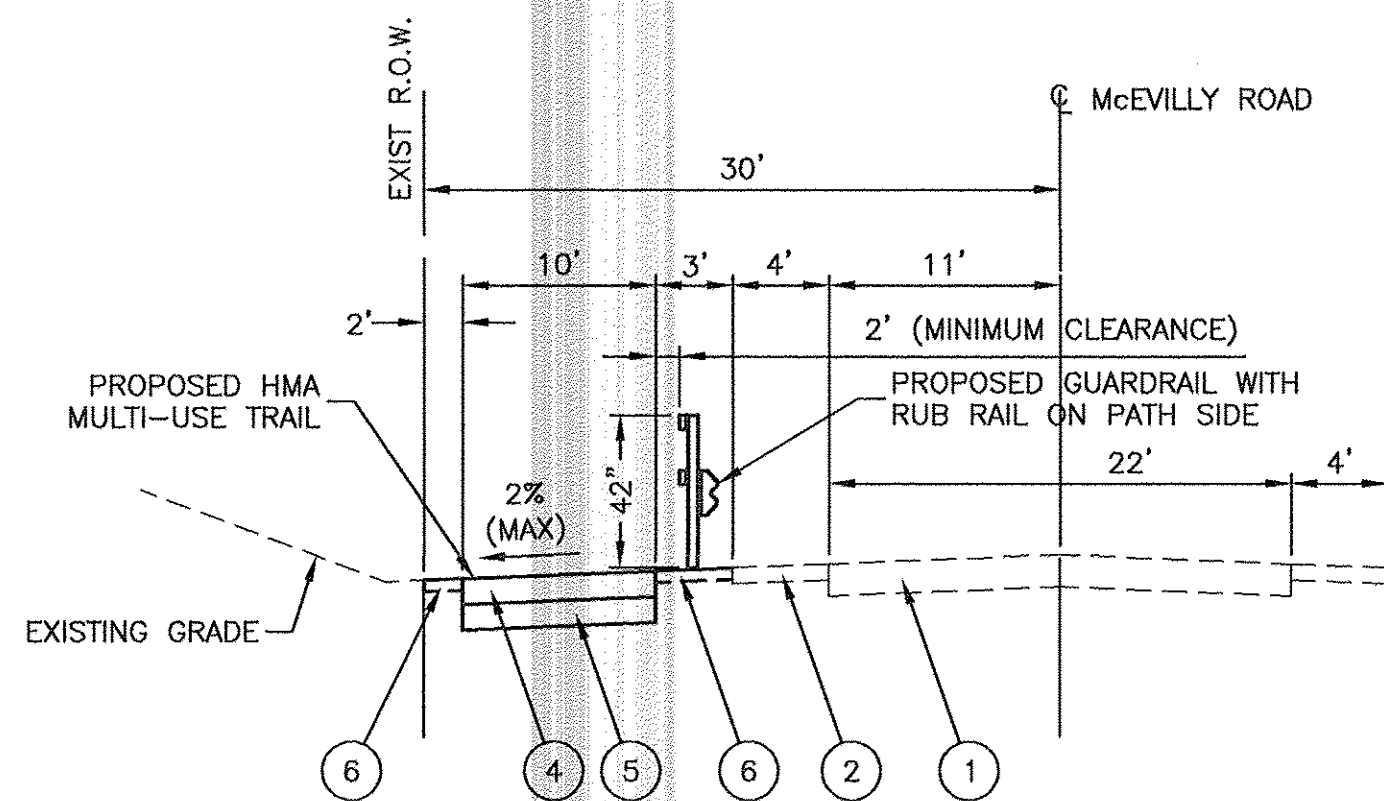
F.A.U. 0393 (MCEVILLY ROAD)	
MULTI-USE PATH - LIONS PARK TO VISTA COURT	
ALIGNMENT, TIES AND BENCHMARKS	
SCALE: 1"=50'	SHEET NO. 4 OF 32 SHEETS
STA. TO STA.	

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0393	10-00056-00-BT	GRUNDY/WILL	32	4
CONTRACT NO. 87631				
FED. ROAD DIST. NO. 3	ILLINOIS	FED. AID PROJECT	TE-00D3 (093)	

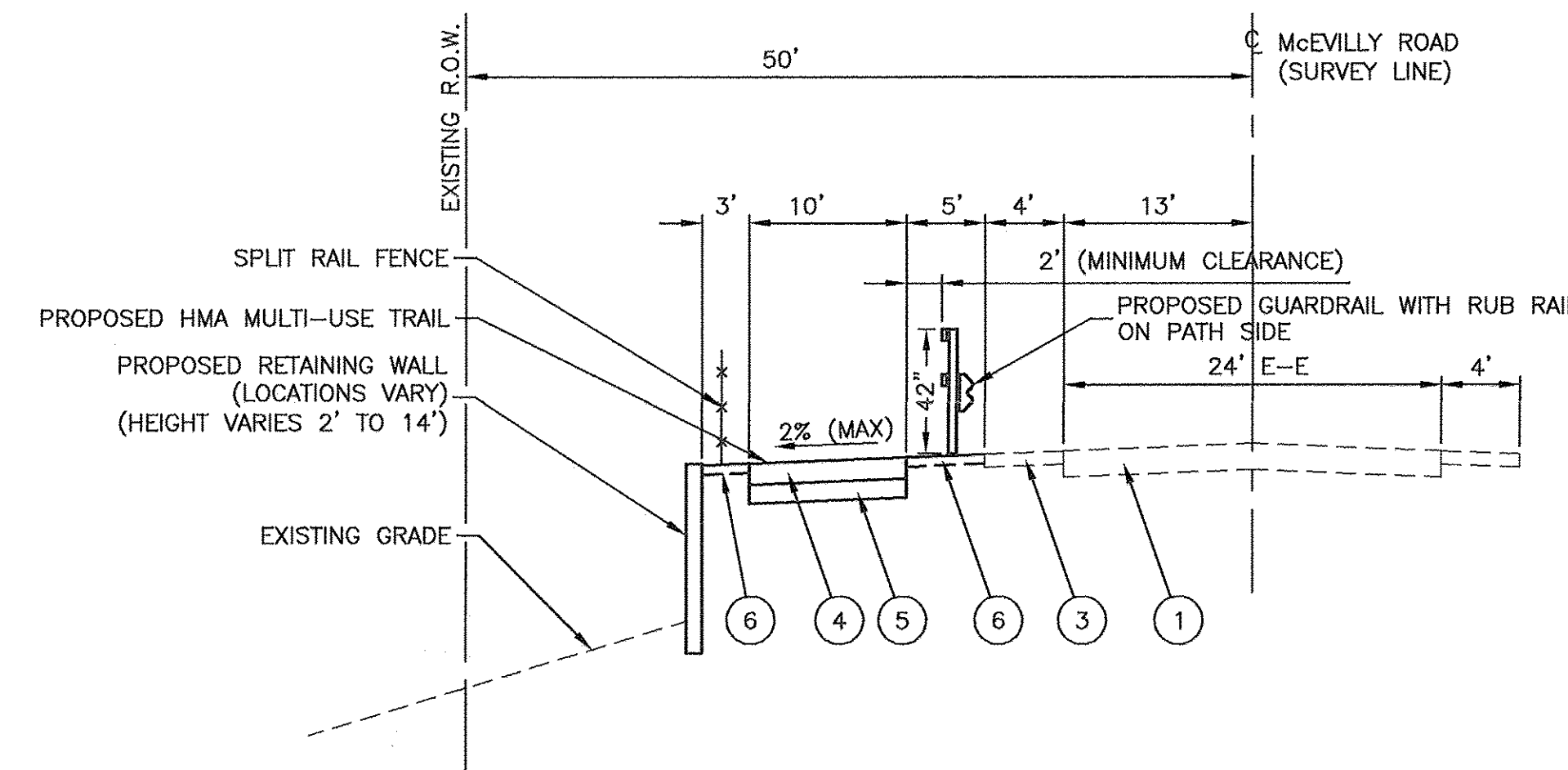




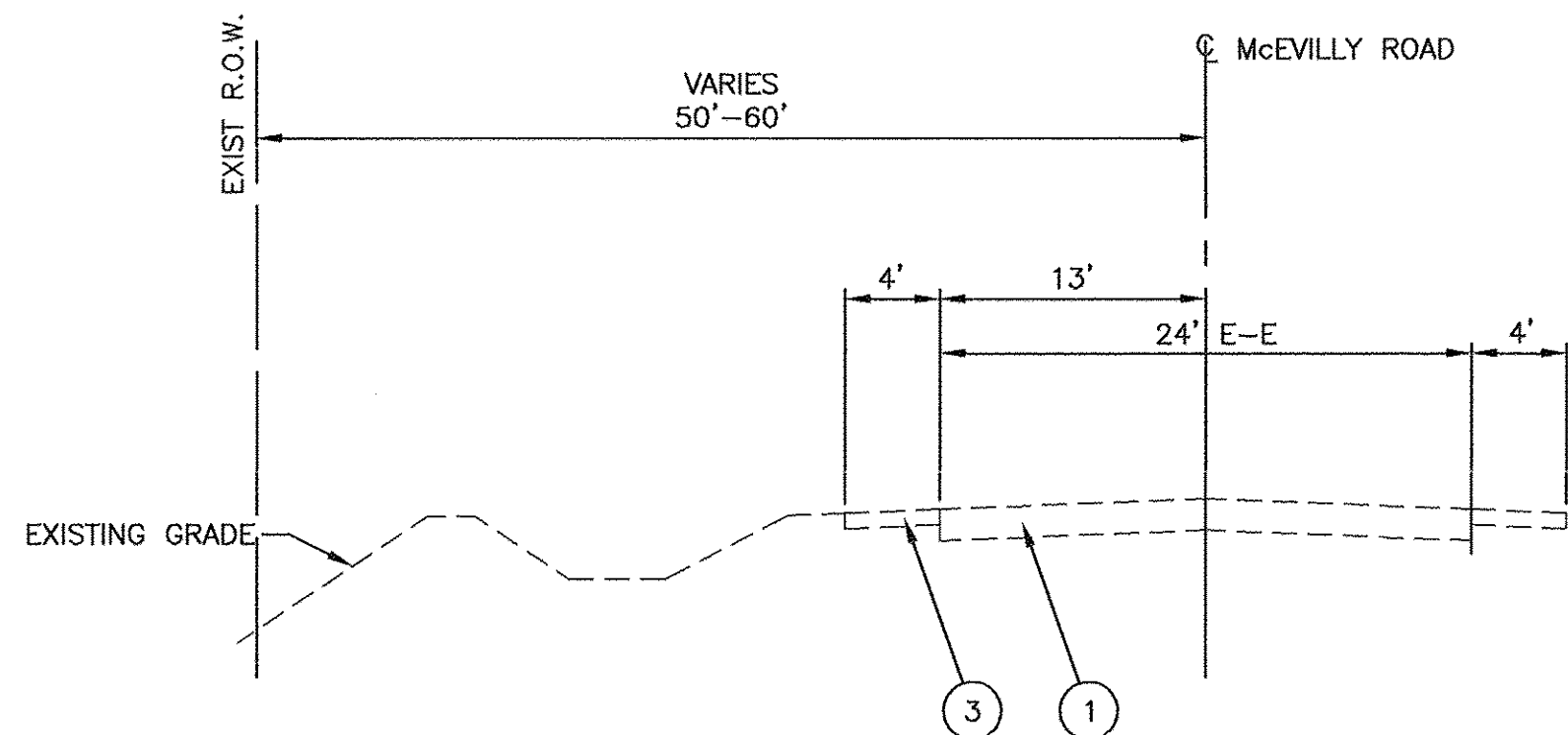
**EXISTING TYPICAL SECTION**  
McEVILLY ROAD PATH - STA. 115+33 TO 123+24



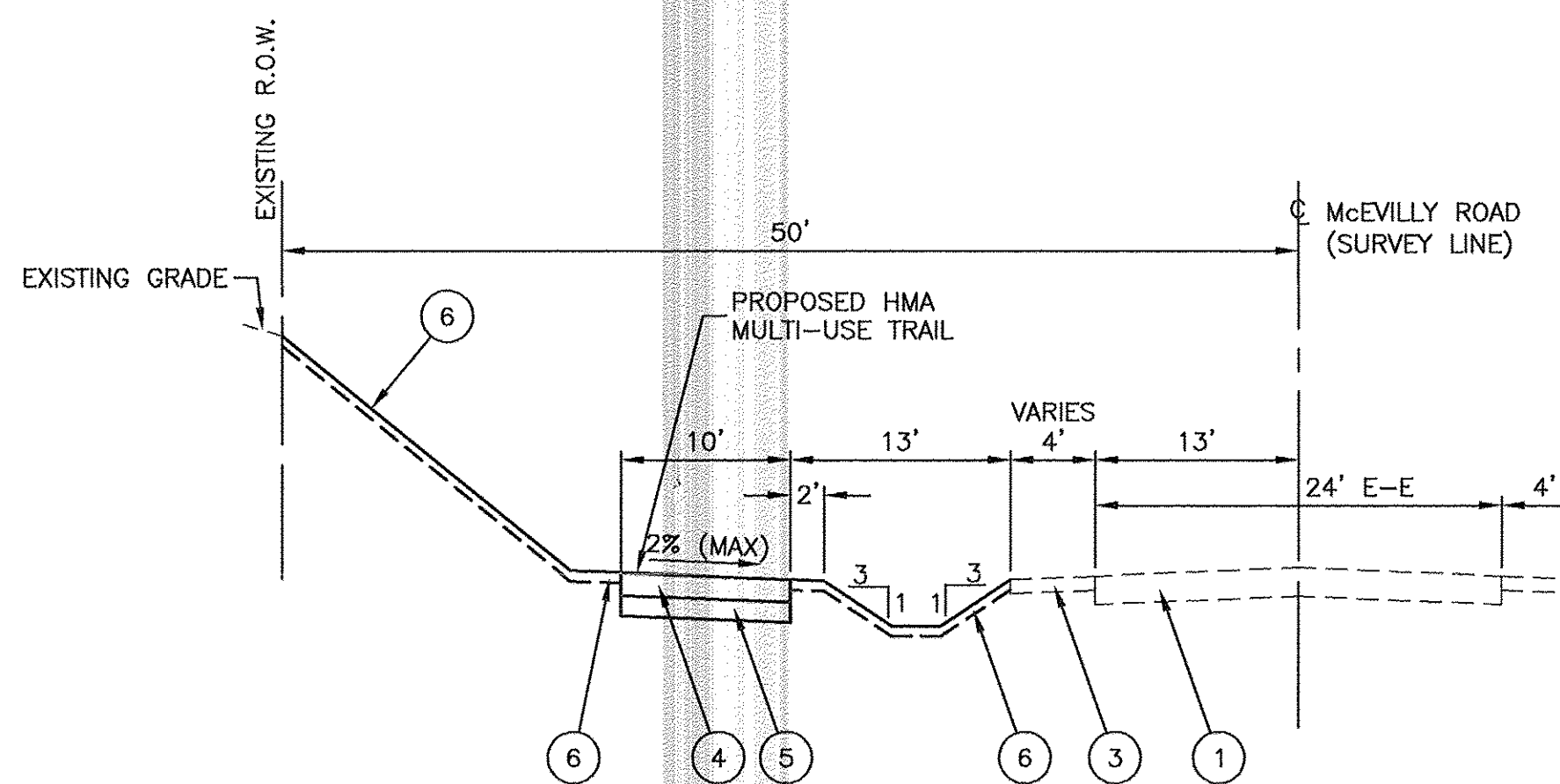
**PROPOSED TYPICAL SECTION**  
McEVILLY ROAD PATH - STA. 115+33 TO 119+35



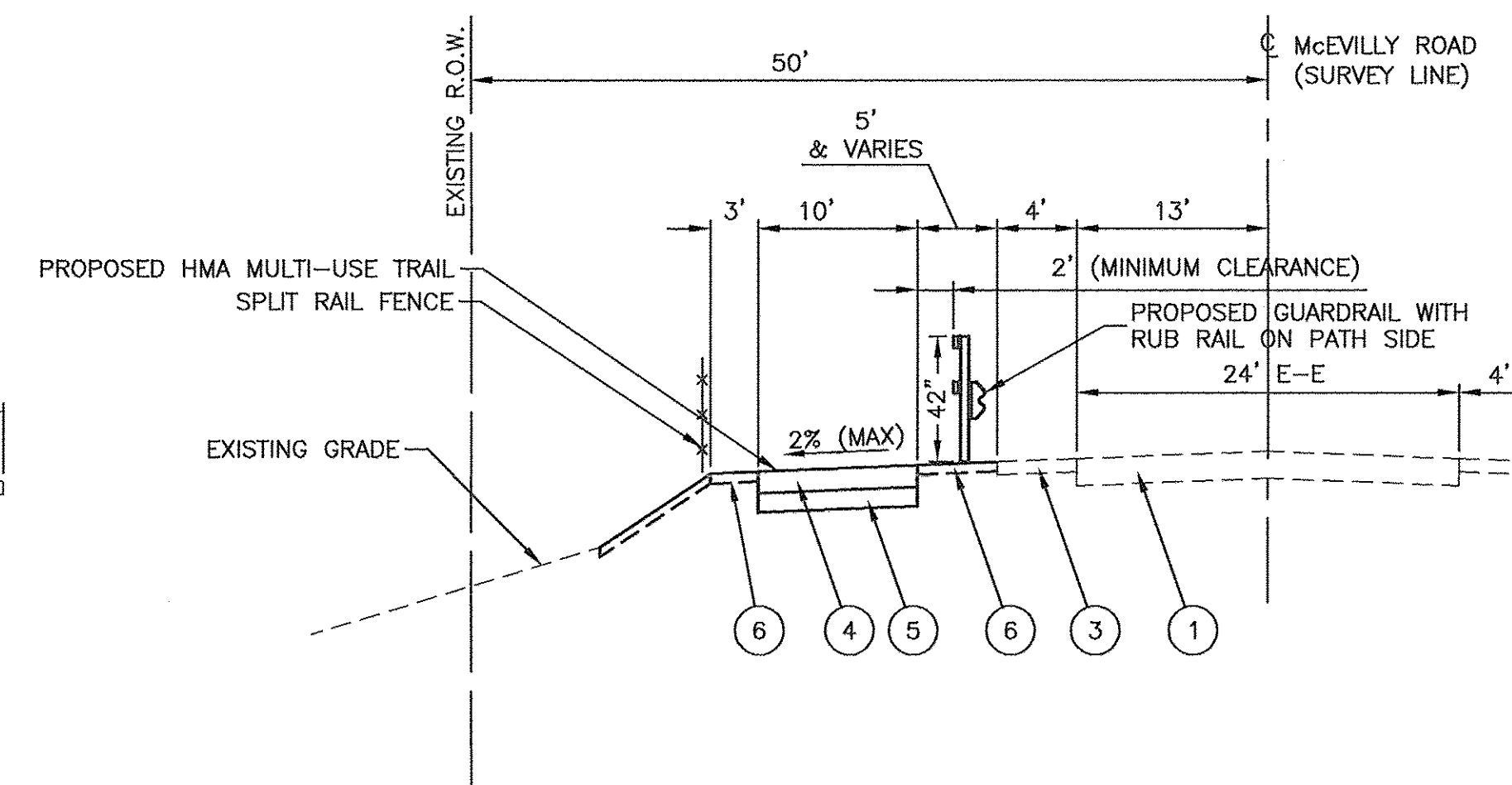
**PROPOSED TYPICAL SECTION**  
McEVILLY ROAD PATH - STA. 130+00 TO 134+48  
STA. 119+35 TO 121+25  
STA. 121+90 TO 123+60



**EXISTING TYPICAL SECTION**  
McEVILLY ROAD PATH - STA. 123+24 TO 136+39



**PROPOSED TYPICAL SECTION**  
McEVILLY ROAD PATH - STA. 123+60 TO 130+00



**PROPOSED TYPICAL SECTION**  
McEVILLY ROAD PATH - STA. 121+25 TO 121+90  
STA. 134+48 TO 136+39 (WITHOUT SPLIT RAIL FENCE)

**LEGEND**

- ① EXISTING PAVEMENT
- ② EXISTING SHOULDER (3' AGGREGATE/1' TURF)
- ③ EXISTING SHOULDER (1' PAVED/3' AGGREGATE)
- ④ HOT-MIX ASPHALT SURFACE COURSE, MIX C, N50, 3"
- ⑤ AGGREGATE BASE COURSE, TYPE B, 6"
- ⑥ TOPSOIL FURNISH AND PLACE, 4" AND SEEDING

**HOT-MIX ASPHALT MIXTURE REQUIREMENTS**

MIXTURE TYPE	AIR VOIDS @ Ndes
MULTI-USE PATH	
HOT MIX ASPHALT SURFACE COURSE, MIX "C", N50 (IL-9.5mm), 3"	4% @ 50 Gyr.
DRIVEWAYS	
HOT MIX ASPHALT SURFACE COURSE, MIX "C", N50 (IL-9.5mm), 3"	4% @ 50 Gyr.

**NOTES:**

1. THE UNIT WEIGHT USED TO CALCULATE ALL HOT-MIX ASPHALT SURFACE MIXTURE QUANTITIES IS 112 LBS/SQ YD/IN.
2. NON-POLYMERIZED HMA THE "AC" TYPE" SHALL BE "PG 64-22" UNLESS MODIFIED BY DISTRICT THREE SPECIAL PROVISIONS.
3. FOR HMA FULL DEPTH "AC TYPE" SEE SPECIAL PROVISIONS.
4. FOR USE OF RECYCLED MATERIALS SEE SPECIAL PROVISIONS.

FILE NAME = 11283-TYPX-01 - IDOT.T1

USER NAME =	DESIGNED - KJB	REVISED -
	CHECKED - HLG	REVISED -
PLOT SCALE =	DRAWN - JJB	REVISED -
PLOT DATE = 4-19-16	CHECKED - ACAD	REVISED -

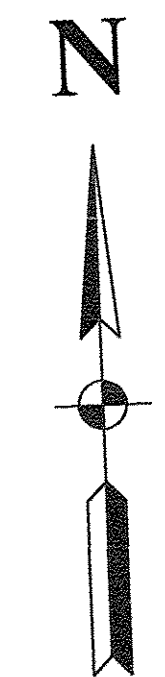
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

F.A.U. 0393 (MCEVILLY ROAD)  
MULTI-USE PATH - LIONS PARK TO VISTA COURT  
TYPICAL CROSS SECTIONS

SCALE: NONE SHEET NO. 5 OF 32 SHEETS STA. TO STA.

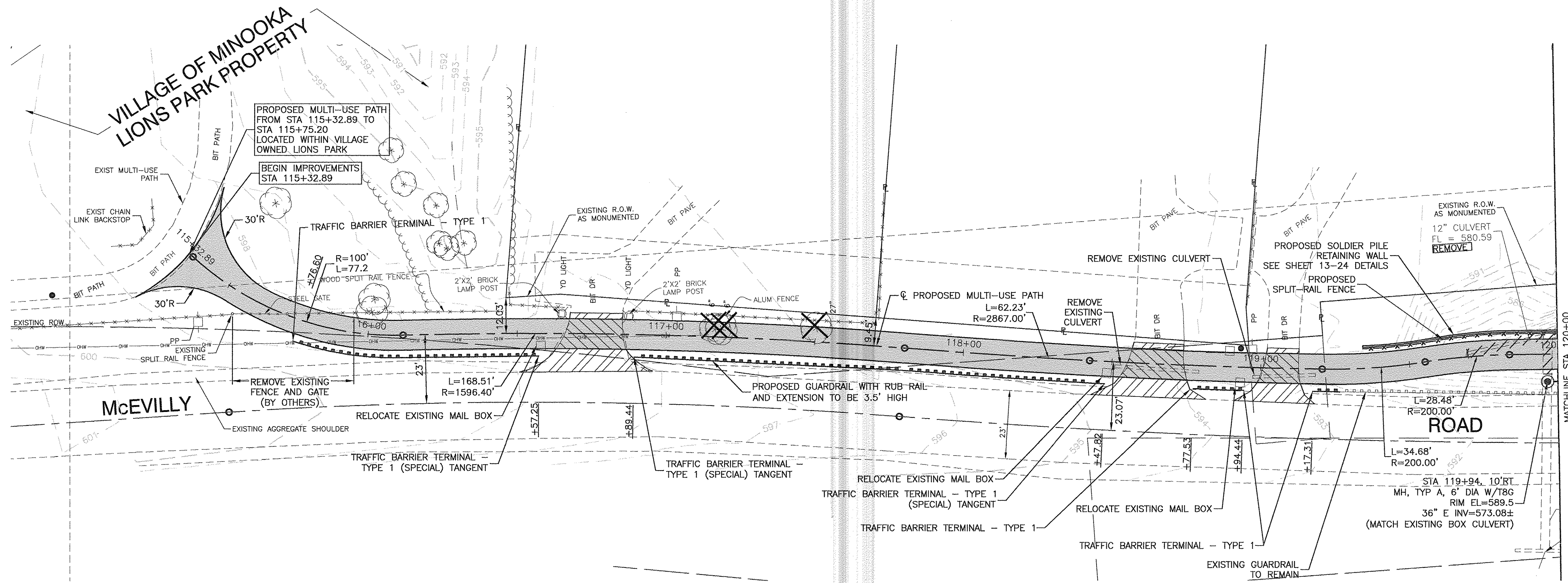
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0393	10-00056-00-BT	GRUNDY/WILL	32	5
CONTRACT NO. 87631				
FED. ROAD DIST. NO. 3 ILLINOIS FED. AID PROJECT TE-00D3 (093)				





PLAN	SURVEYED	DATE
	BY	
	PLOTTED	
	CHECKED	
	DATE	
	BY	
	FILE NAME	
	NO.	

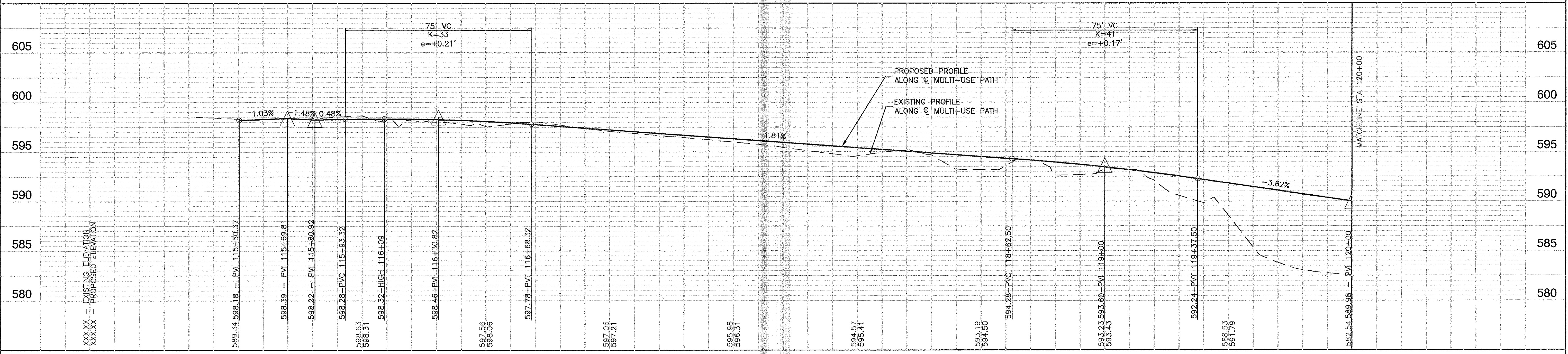
PROFILE	SURVEYED	DATE
	BY	
	PLOTTED	
	CHECKED	
	DATE	
	BY	
	FILE NAME	
	NO.	



**LEGEND:**

- SWALE
- PROPOSED MULTI-USE PATH
- HMA DRIVEWAY REMOVAL AND REPLACEMENT
- HMA DRIVEWAY REMOVAL AND REPLACE WITH MULTI-USE PATH
- PROPOSED RETAINING WALL
- PROPOSED GUARDRAIL WITH RUB RAIL
- EXISTING MINOR CONTOUR
- EXISTING MAJOR CONTOUR
- TREE REMOVAL

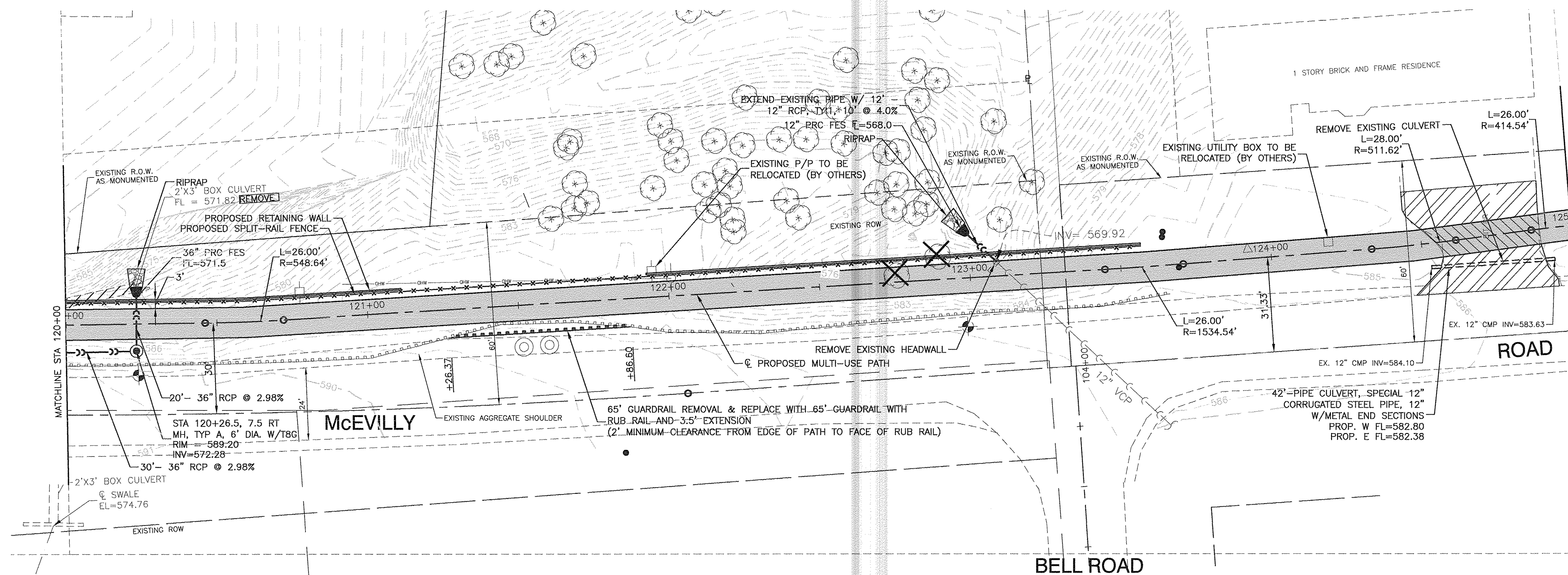
**NOTES:**  
 1. PROVIDE 5' CLEARANCE FOR GUARDRAIL AT DRIVEWAYS.



FILE NAME = 11283-PLPR-02 - PLPR01	USER NAME =	DESIGNED = KJB	REVISED =	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>				<b>F.A.U. 0393 (MCEVILLY ROAD) MULTI-USE PATH - LIONS PARK TO VISTA COURT PLAN &amp; PROFILE</b>				F.A.U. RTE = 0393	SECTION = 10-00056-00-BT	COUNTY = GRUNDY/WILL	TOTAL SHEETS = 32	SHEET NO. = 6
	PLOT SCALE =	CHECKED = HLG	REVISED =									FED. ROAD DIST. NO. = 3	ILLINOIS	FED. AID PROJECT = TE-00D3 (093)		
	PLOT DATE = 4-19-16	DRAWN = MED	REVISED =									SCALE: H 1"=20' V 1"=5'	SHEET NO. 6	OF 32 SHEETS	STA. TO STA.	
		CHECKED = ACAD	REVISED =									CONTRACT NO. 87631				

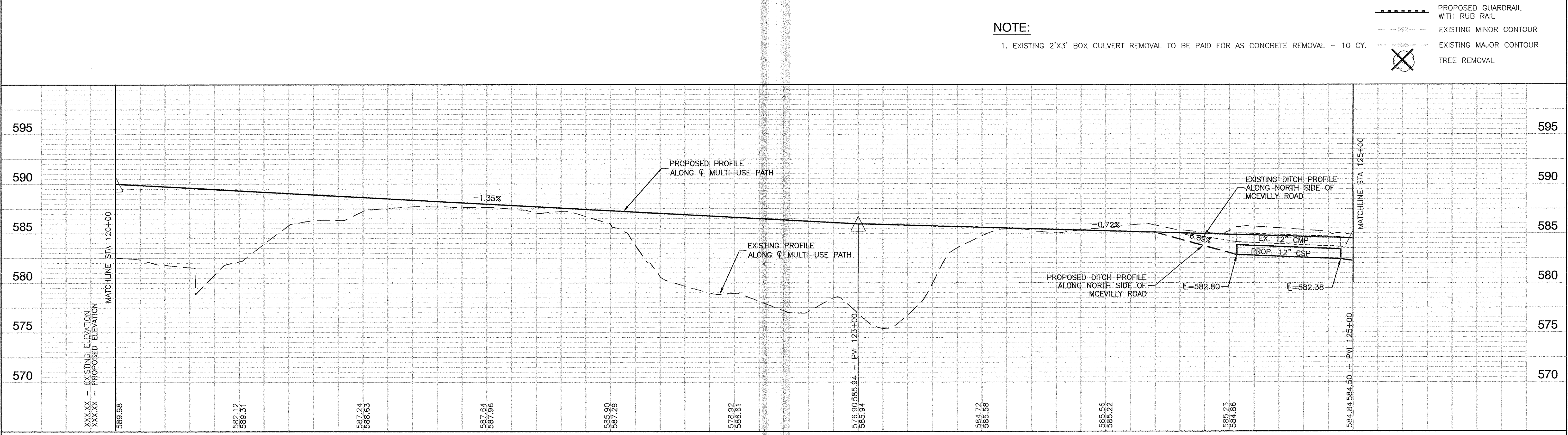


SECTION 1, TOWNSHIP 34, RANGE 8



- LEGEND:**
- SWALE
  - PROPOSED MULTI-USE PATH
  - HMA DRIVEWAY REMOVAL AND REPLACEMENT
  - HMA DRIVEWAY REMOVAL AND REPLACE WITH MULTI-USE PATH
  - PROPOSED RETAINING WALL
  - PROPOSED GUARDRAIL WITH RUB RAIL
  - EXISTING MINOR CONTOUR
  - EXISTING MAJOR CONTOUR
  - TREE REMOVAL

**NOTE:**  
 1. EXISTING 2'X3' BOX CULVERT REMOVAL TO BE PAID FOR AS CONCRETE REMOVAL - 10 CY.

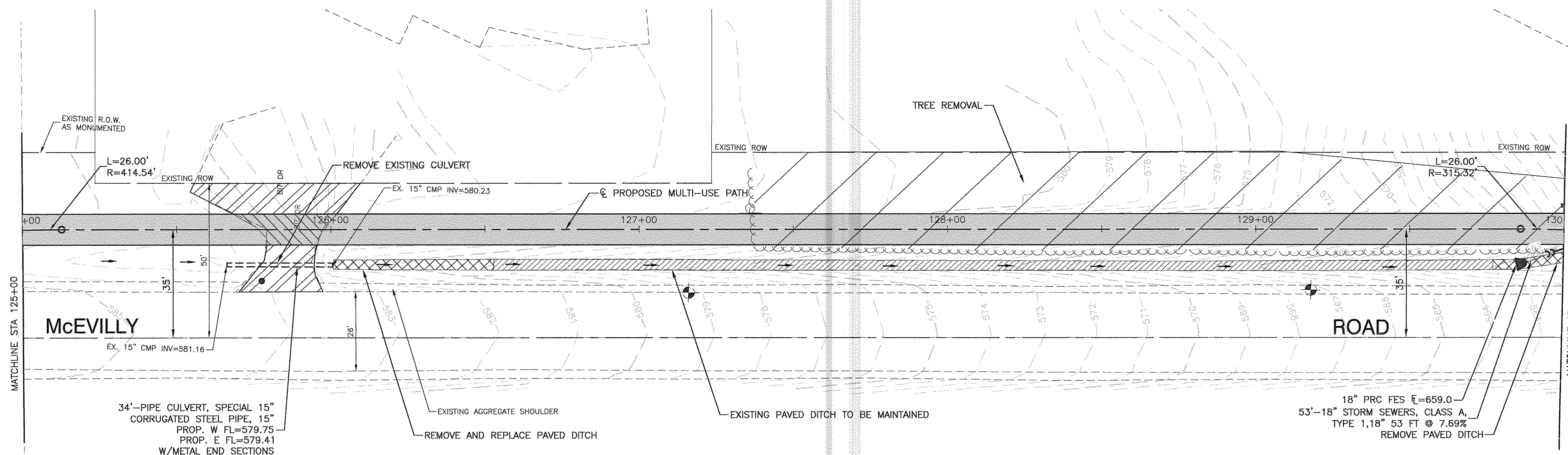
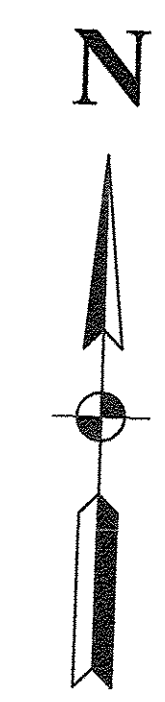


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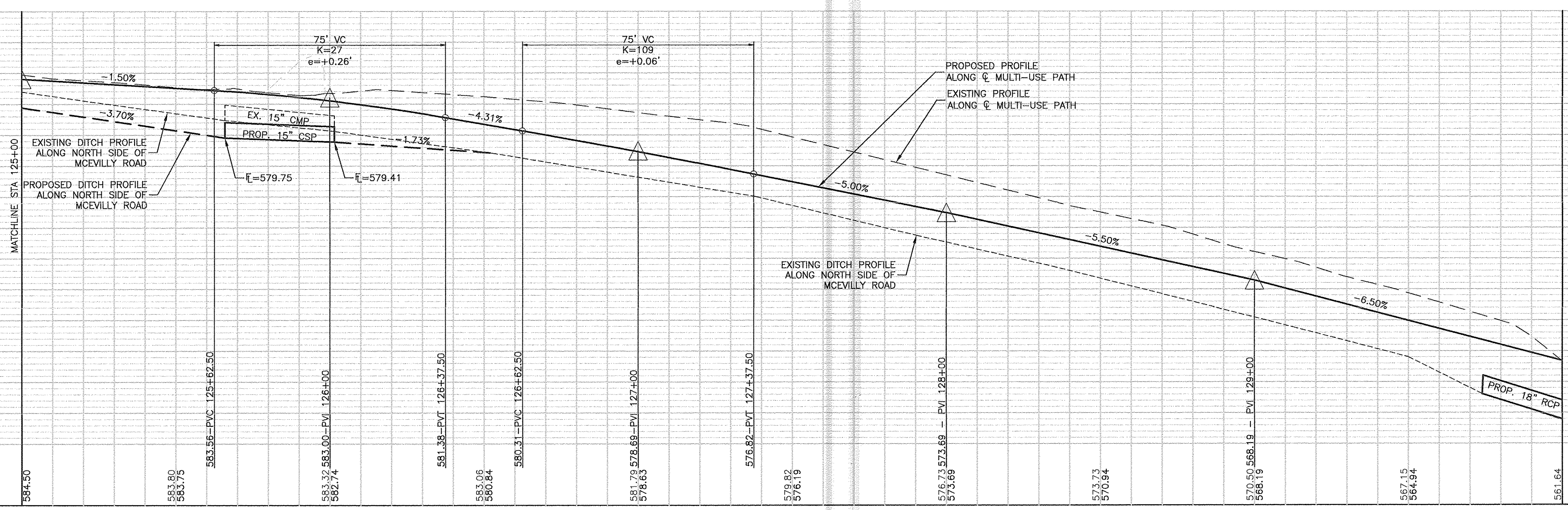
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ADDITIONAL NOTES	PLOT SCALE =	DRAWN = MED	REVISED =	SCALE: H 1"=20' V 1"=5'				SHEET NO. 7 OF 32 SHEETS		STA. TO STA.		FED. ROAD DIST. NO. 3	ILLINOIS	FED. AID PROJECT TE-00D3 (069)		
PLOT DATE = 4-19-16	CHECKED = ACAD	REVISED =														





**LEGEND:**

- SWALE
- PROPOSED MULTI-USE PATH
- HMA DRIVEWAY REMOVAL AND REPLACEMENT
- HMA DRIVEWAY REMOVAL AND REPLACE WITH MULTI-USE PATH
- PROPOSED RETAINING WALL
- PROPOSED GUARDRAIL WITH RUB RAIL
- EXISTING MINOR CONTOUR
- EXISTING MAJOR CONTOUR
- TREE REMOVAL



PLAN

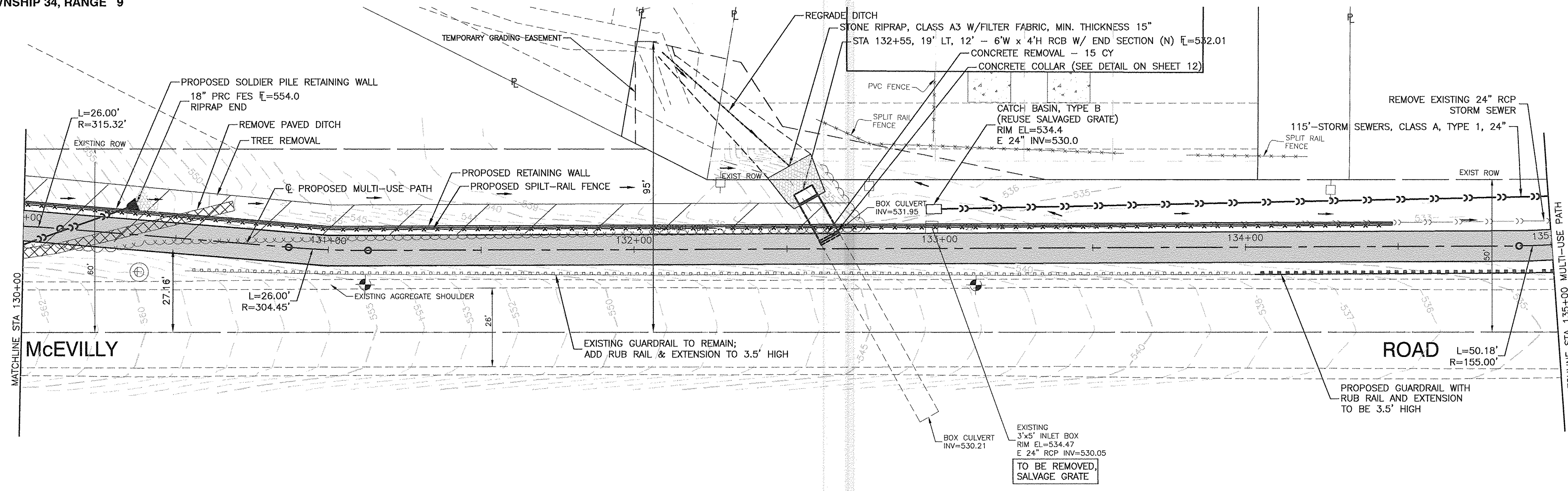
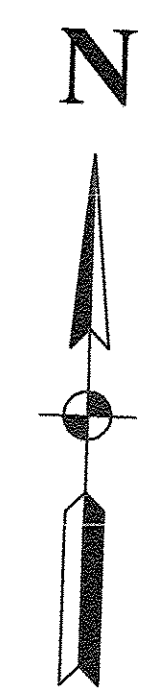
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NOTE BOOK NO.	

FILE NAME = 11283-PLPR-02 - PLPR03	USER NAME =	DESIGNED - KJB	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	F.A.U. 0393 (MCEVILLY ROAD) MULTI-USE PATH - LIONS PARK TO VISTA COURT PLAN & PROFILE		F.A.U. RTE. 0393	SECTION 10-00056-00-BT	COUNTY GRUNDY/WILL	TOTAL SHEETS 32	SHEET NO. 8
	PLOT SCALE =	CHECKED - HLG	REVISED -		SCALE: H 1"=20' V 1"=5'	SHEET NO. 8	OF 32 SHEETS	STA. TO STA.	FED. ROAD DIST. NO. 3	ILLINOIS	FED. AID PROJECT TE-00D3 (093)
	PLOT DATE = 4-19-16	DRAWN - MED	REVISED -								
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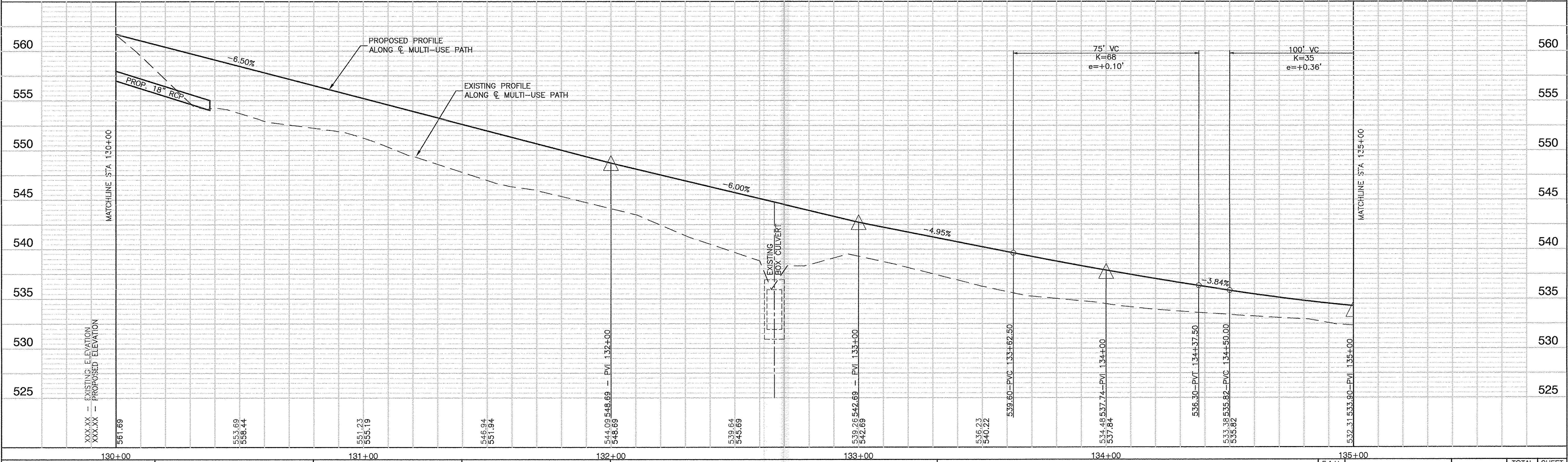


**LEGEND:**

- SWALE
- PROPOSED MULTI-USE PATH
- HMA DRIVEWAY REMOVAL AND REPLACEMENT
- HMA DRIVEWAY REMOVAL AND REPLACE WITH MULTI-USE PATH
- PROPOSED RETAINING WALL
- PROPOSED GUARDRAIL WITH RUB RAIL
- EXISTING MINOR CONTOUR
- EXISTING MAJOR CONTOUR
- TREE REMOVAL

PLAN	DATE
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FILE NAME = 112893-PLPR-02 - PLPR04
USER NAME =
DESIGNED - KJB
CHECKED - HLG
REVISOR -
REVISIONS -
DATE - 4-19-16

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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

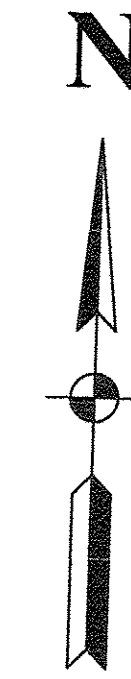
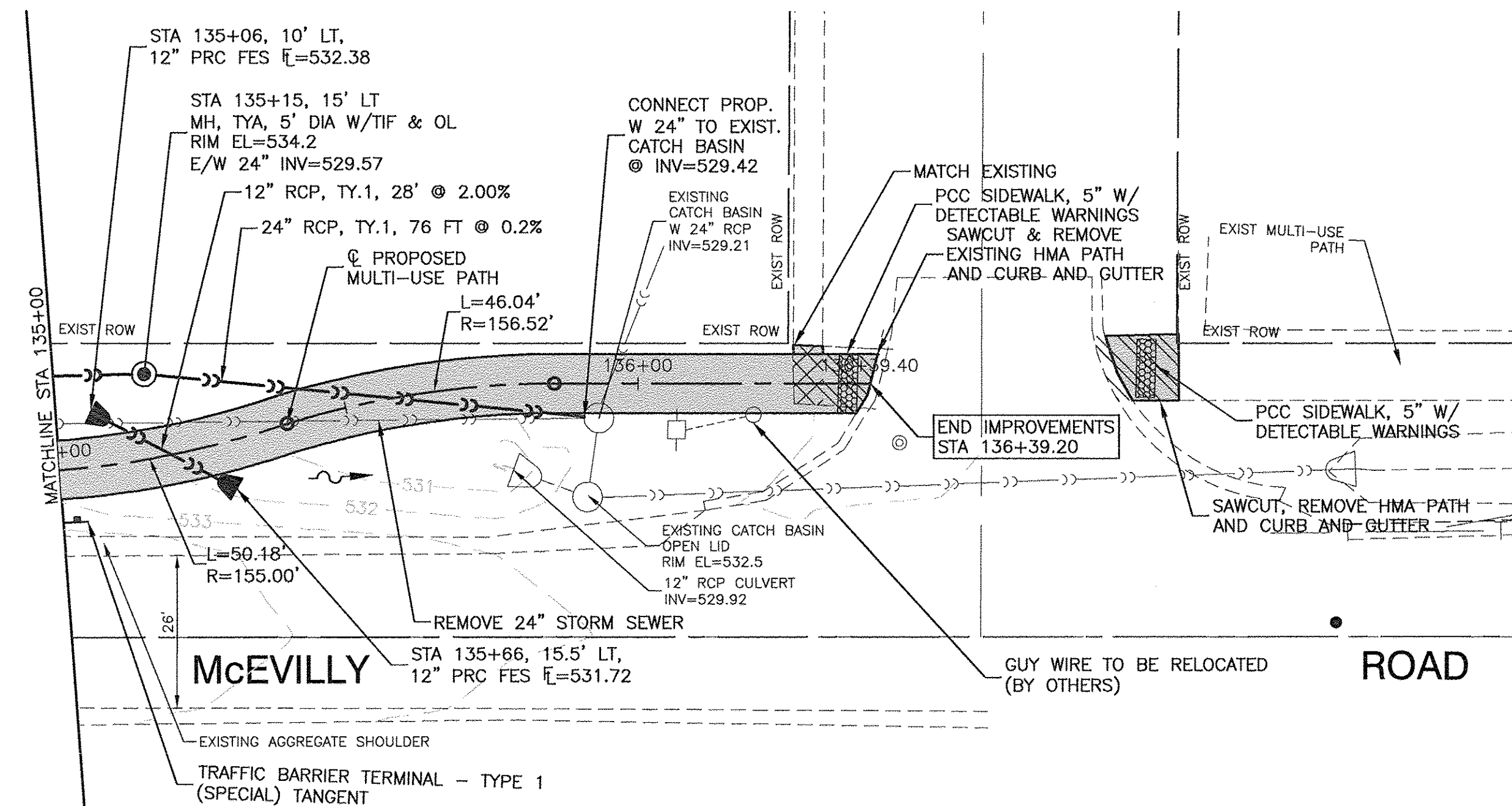
F.A.U. 0393 (MCEVILLY ROAD)  
MULTI-USE PATH - LIONS PARK TO VISTA COURT  
PLAN & PROFILE

SCALE: H 1"=20' V 1"=5' SHEET NO. 9 OF 32 SHEETS STA. TO STA.

F.A.U. RTE. 0393	SECTION 10-00056-00-BT	COUNTY GRUNDY/WILL	TOTAL SHEETS 32	SHEET NO. 9
FED. ROAD DIST. NO. 3 ILLINOIS			FED. AID PROJECT TE-00D3 (093)	



VISTA COURT



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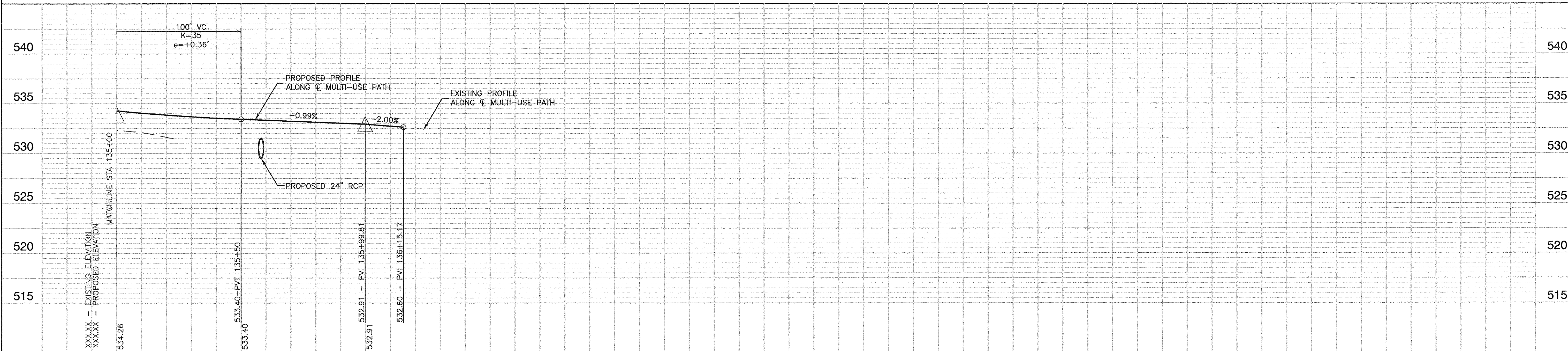
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LEGEND:

- SWALE
- PROPOSED MULTI-USE PATH
- PCC SIDEWALK REMOVAL
- HMA DRIVEWAY REMOVAL AND REPLACEMENT
- HMA DRIVEWAY REMOVAL AND REPLACE WITH MULTI-USE PATH
- PROPOSED RETAINING WALL
- PROPOSED GUARDRAIL WITH RUB RAIL
- S92- EXISTING MINOR CONTOUR
- S95- EXISTING MAJOR CONTOUR
- TREE REMOVAL

NOTES:

1. REMOVAL OF EXISTING HMA PATH SHALL BE PAID FOR AS "DRIVEWAY PAVEMENT REMOVAL"

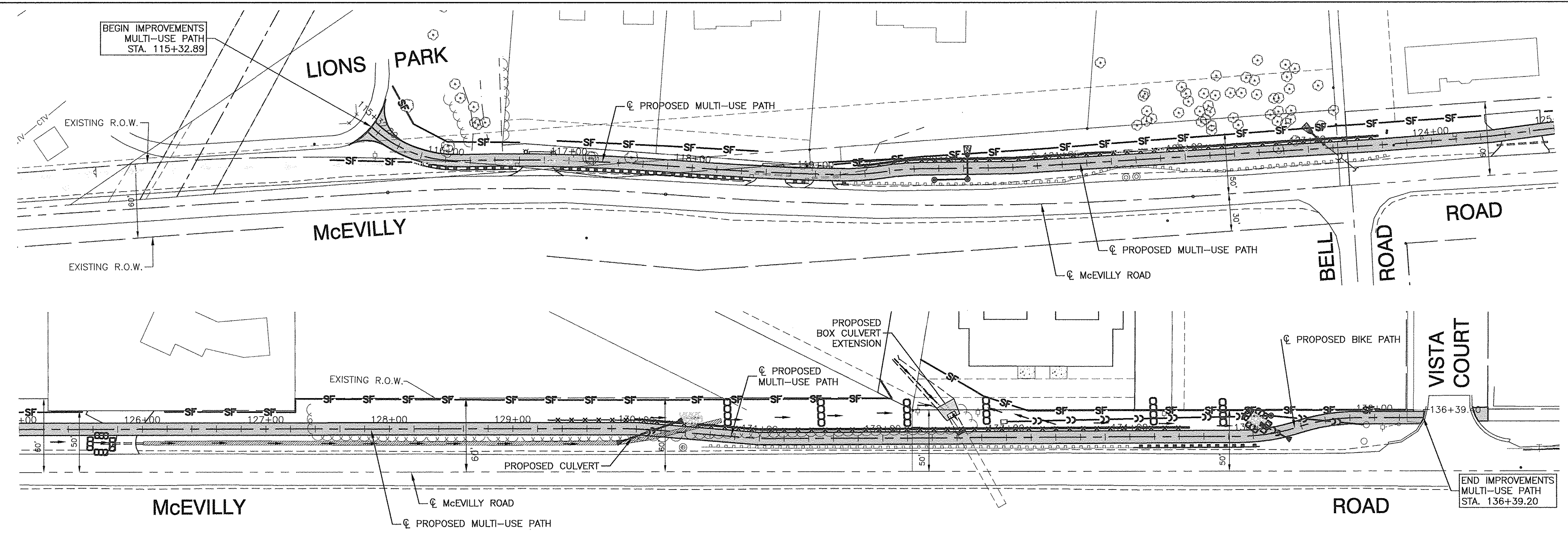


FILE NAME = 11283-PLPR-02 - PLPR05	USER NAME =	DESIGNED - KJB	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	F.A.U. 0393 (MCEVILLY ROAD) MULTI-USE PATH - LIONS PARK TO VISTA COURT PLAN & PROFILE		F.A.U. RTE. 0393	SECTION 10-00056-00-BT	COUNTY GRUNDY/WILL	TOTAL SHEETS 32	SHEET NO. 10
	PLOT SCALE =	CHECKED - HLG	REVISED -		SCALE: H 1"=20' V 1"=5'	SHEET NO. 10 OF 32 SHEETS	STA. TO STA.	FED. ROAD DIST. NO. 3	ILLINOIS	FED. AID PROJECT TE-00D3 (093)	CONTRACT NO. 87631
	PLOT DATE = 4-19-16	DRAWN - MED	REVISED -								
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LOCATION MAP  
SCALE: 1"=50'

VILLAGE OF MINOOKA

STORMWATER POLLUTION PREVENTION NOTES

- ANY SEDIMENT REACHING PUBLIC OR PRIVATE ROAD SHALL BE REMOVED BY SHOVELING OR STREET CLEANING (NOT FLUSHING) BEFORE THE END OF EACH WORKDAY AND TRANSPORTED TO A CONTROLLED SEDIMENT DISPOSAL SITE.
- DISTURBED AREAS SHALL BE STABILIZED WITH TEMPORARY OR PERMANENT MEASURES WITHIN 7 CALENDAR DAYS FOLLOWING THE END OF ACTIVE DISTURBANCE OR REDISTURBANCE.
- ANY SEDIMENT REACHING THE STORM SEWER SYSTEM SHALL BE REMOVED FROM THE SEWER AND SHALL NOT BE FLUSHED DOWNSTREAM.
- ANY ERODED SEDIMENT CAPTURED IN DETENTION, RETENTION, OR DEPRESSIONAL STORAGE AREA SHALL BE REMOVED BY THE APPLICANT BEFORE PROJECT COMPLETION.
- ALL TEMPORARY AND PERMANENT EROSION AND SEDIMENT CONTROL PRACTICES MUST BE MAINTAINED AND REPAIRED AS NEEDED TO ASSURE EFFECTIVE PERFORMANCE OF THEIR INTENDED FUNCTION.
- ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE DISPOSED OF WITHIN 30 DAYS AFTER FINAL SITE STABILIZATION IS ACHIEVED WITH PERMANENT SOIL STABILIZATION MEASURES.
- ALL CONSTRUCTED OR MODIFIED STORM WATER CONVEYANCE CHANNELS SHALL BE STABILIZED WITHIN 48 HOURS CONSISTENT WITH THE FOLLOWING:
  - FOR GRADES UP TO 4% SEEDING IN COMBINATION WITH MULCH, EROSION CONTROL BLANKET, OR AN EQUIVALENT MEASURE SHALL BE APPLIED.
  - FOR GRADES OF FOUR (4%) TO EIGHT (8%) PERCENT, SOD OR AN EQUIVALENT CONTROL MEASURE SHALL BE APPLIED TO THE CHANNEL.
  - FOR GRADES GREATER THAN EIGHT PERCENT, ROCK, RIP-RAP, OR AN EQUIVALENT EROSION CONTROL MEASURE SHALL BE APPLIED.
- PROPOSED MAJOR AMENDMENTS OF THE SITE DEVELOPMENT OR EROSION AND SEDIMENTATION CONTROL PLANS SHALL BE SUBMITTED TO THE DEPARTMENT OF COMMUNITY SERVICES AND DEVELOPMENT TO BE APPROVED IN THE SAME MANNER AS THE ORIGINAL PLANS.

PROPERTY OWNER

VILLAGE OF MINOOKA  
121 E McEVILLY ROAD  
MINOOKA, IL 60447  
PHONE: (815) 467-2151

CONTRACTOR CERTIFICATION STATEMENT

I CERTIFY UNDER PENALTY OF LAW THAT I UNDERSTOOD THE TERMS AND CONDITIONS OF THE GENERAL NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM PERMIT (ILR 100000) THAT AUTHORIZES THE STORMWATER DISCHARGES ASSOCIATED WITH INDUSTRIAL ACTIVITY FROM CONSTRUCTION SITE IDENTIFIED AS PART OF THIS CERTIFICATION.

DATED THIS \_\_\_\_\_ DAY OF \_\_\_\_\_ 20\_\_\_\_

BY: \_\_\_\_\_ TITLE: \_\_\_\_\_

COMPANY: \_\_\_\_\_

ADDRESS: \_\_\_\_\_

TELEPHONE: \_\_\_\_\_

LEGEND:

- PERIMETER EROSION BARRIER
- TEMPORARY DITCH CHECKS
- RIP RAP DITCH (STONE RIP RAP CL. A, GRADATION RR4)

GENERAL NOTES:

- ALL DISTURBED AREAS, UNLESS OTHERWISE INDICATED, SHALL BE RESTORED WITH TOPSOIL, 4", SODDING PER THE SPECIAL PROVISIONS.

STORMWATER POLLUTION PREVENTION NOTES

- THIS DEVELOPMENT WILL CONSIST OF GRADING AND THE CONSTRUCTION OF UTILITIES.
- THE SEQUENCE OF CONSTRUCTION WILL BE AS FOLLOWS: INSTALLATION OF EROSION CONTROL MEASURES, INSTALLATION OF UTILITIES, FINAL GRADING, PLACEMENT OF TOPSOIL AND SEEDING.
- EROSION AND SEDIMENTATION CONTROLS:
  - PERMANENT VEGETATION WILL BE ESTABLISHED AFTER TOPSOIL IS RESPREAD.
  - SILT FENCE WILL PREVENT SEDIMENT FROM ENTERING DETENTION BASINS.
  - STORMWATER MANAGEMENT FACILITIES WILL PREVENT SEDIMENT FROM LEAVING THE SITE.
  - DEWATERING OPERATIONS WILL BE PUMPED INTO SEDIMENT BASINS.
  - SILT SAVER OR APPROVED EQUAL WILL BE INSTALLED AT ALL OPEN GRATE STORM STRUCTURES.
- THE EARTHWORK CONTRACTOR SHALL MAINTAIN THE SEDIMENT AND EROSION CONTROL MEASURES IDENTIFIED ON THIS PLAN UNTIL THE SITE IS STABILIZED.

NOTES VILLAGE OF MINOOKA:

- THE CONTRACTOR SHALL TAKE NECESSARY STEPS TO CONTAIN WASTE SUCH AS DISCARDED BUILDING MATERIALS, CONCRETE TRUCK WASH OUTS, CHEMICAL LITTER AND SANITARY WASTE AT THE CONSTRUCTION SITE THAT MAY CAUSE ADVERSE IMPACTS ON WATER QUALITY.
- ALL STORM SEWER FRAMES AND GRATES/LIDS SHALL BE MARKED WITH "DUMP NO WASTE" AND "DRAINS TO CREEK" AS SHOWN IN THE DETAILS.
- AN INCIDENT OF NON-COMPLIANCE (ION) MUST BE COMPLETED AND SUBMITTED TO THE IEPA IF, AT ANY TIME, AN EROSION OR SEDIMENT CONTROL DEVICE FAILS.
- A NOTICE OF TERMINATION (NOT) MUST BE COMPLETED AND SUBMITTED TO THE IEPA WHEN ALL PERMANENT EROSION CONTROL MEASURES ARE IN PLACE WITH A 70% ESTABLISHMENT OF VEGETATION.
- ANY PROPOSED TOPSOIL AND/OR TRENCH SPOIL STOCKPILES MUST BE SECURED BY A ROW OF SILT FENCE AROUND THE PERIMETER OF THE STOCKPILES.

TYPICAL CONSTRUCTION SEQUENCING (90 DAY DURATION)

- INSTALLATION OF SOIL EROSION AND SEDIMENT CONTROL (SE/SC) MEASURES
  - A. SELECTIVE VEGETATION REMOVAL FOR SILT FENCE INSTALLATION
  - B. SILT FENCE INSTALLATION
  - C. CONSTRUCTION FENCING AROUND AREAS NOT TO BE DISTURBED
- TREE REMOVAL WHERE NECESSARY (CLEAR AND GRUB)
- CONSTRUCT SEDIMENT TRAPPING DEVICES (SEDIMENT TRAPS, BASINS .....)
- INSTALL CULVERTS.
- TEMPORARILY STABILIZE ALL AREAS INCLUDING AREAS THAT HAVE REACHED TEMPORARY GRADE.
- INSTALL MULTI-USE PATH.
- INSTALL STRUCTURES AND GRADE.
- PERMANENTLY STABILIZE LOTS.
- REMOVE ALL TEMPORARY SE/SC MEASURES AFTER SITE IS STABILIZED WITH VEGETATION.

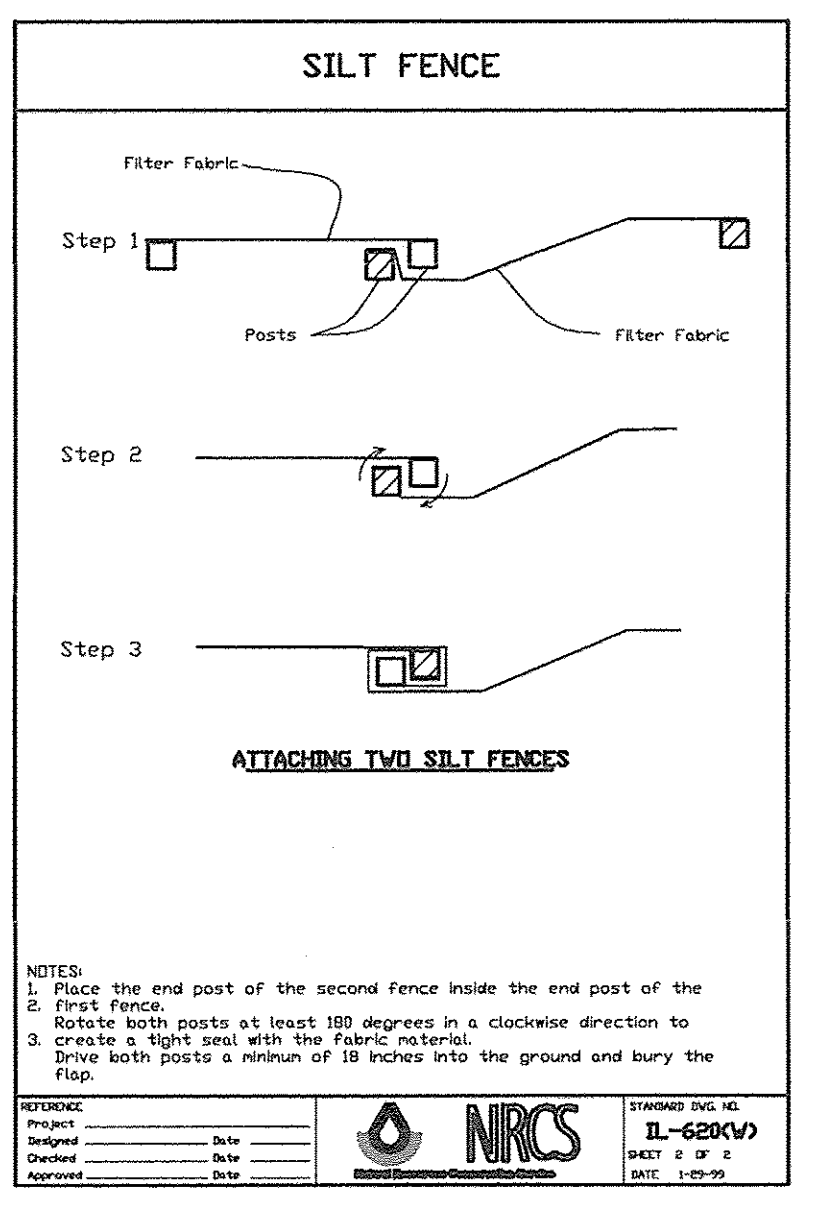
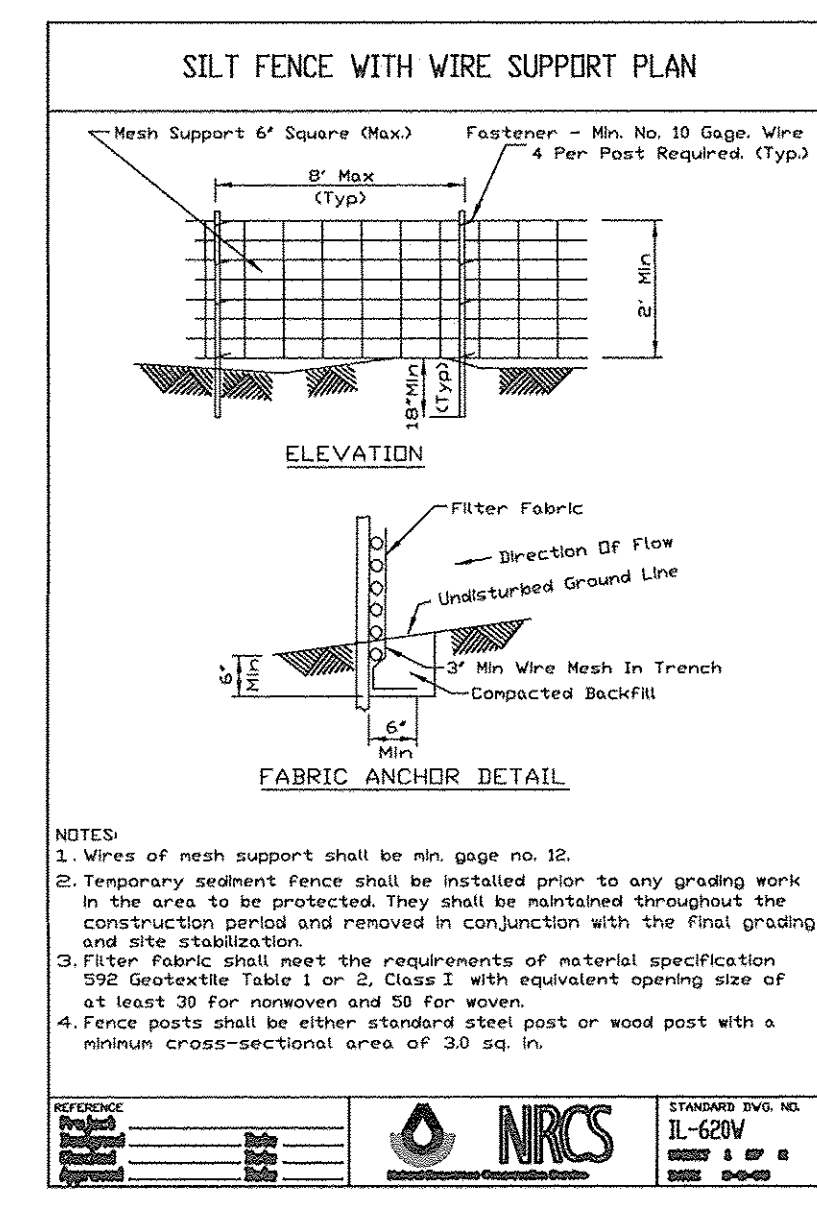
CONTROLS AND BEST MANAGEMENT PRACTICES:

- ALL EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE CONSTRUCTED AND MAINTAINED IN ACCORDANCE WITH "PROCEDURES AND STANDARDS FOR URBAN SOIL EROSION AND SEDIMENTATION CONTROL IN ILLINOIS" AND THE "ILLINOIS URBAN MANUAL."
- THE CONTRACTOR SHALL KEEP ALL ADJACENT STREETS CLEAN AT ALL TIMES.
- SEEDING AND MULCHING SHALL BE INITIATED WITHIN 7 DAYS AFTER THE FINAL GRADES HAVE BEEN ATTAINED. ALL UNSTABILIZED AREAS NOT DISTURBED FOR 7 DAYS SHALL BE SEEDING TEMPORARILY. THE TEMPORARY SEED MIXTURE SHALL BE AS DIRECTED BY THE "ILLINOIS URBAN MANUAL."
- THE CONTRACTOR SHALL PREVENT SILT FROM ENTERING ANY DOWNSTREAM STORMWATER CONVEYANCE SYSTEM THAT MAY BE ENCOUNTERED BY INSTALLING THE REQUIRED INLET PROTECTION IN ALL STRUCTURES WITH OPEN GRATES.
- IF BLOWING DUST SHOULD BE A PROBLEM, AS DETERMINED BY THE VILLAGE OF MINOOKA, THE CONTRACTOR SHALL EMPLOY A WATER TRUCK AS OFTEN AS NECESSARY TO KEEP THE SOIL IN A DAMPENED CONDITION TO MINIMIZE AIRBORNE PARTICLES. INSTRUCTIONS IN THE ILLINOIS URBAN MANUAL STANDARD #825 SHALL BE FOLLOWED.
- THE CONTRACTOR SHALL INSPECT ALL SOIL EROSION CONTROL MEASURES ON A WEEKLY BASIS OR AFTER A 0.5 INCH RAINFALL AND REPLACE THEM IN A TIMELY BASIS. A REPORT SUMMARIZING THE SCOPE OF THE INSTALLATION, NAME(S) AND QUALIFICATIONS OF PERSONNEL MAKING THE INSPECTION, THE DATE(S) OF THE INSPECTION, MAJOR OBSERVATIONS RELATING TO THE IMPLEMENTATION OF THE STORMWATER PREVENTION POLLUTION PLAN (SWPPP) AND ACTIONS TAKEN, THESE REPORTS SHALL BE MADE AND RETAINED AS PART OF THE SWPPP FOR AT LEAST 3 YEARS AFTER DATE OF INSPECTION.
- ANY SOIL EROSION CONTROL MEASURES IN ADDITION TO THOSE OUTLINED IN THE PLANS, AND WHICH ARE DEEMED NECESSARY BY THE VILLAGE OF MINOOKA INSPECTOR, SHALL BE IMPLEMENTED IMMEDIATELY BY THE CONTRACTOR.
- TEMPORARY PERIMETER EROSION CONTROL BARRIERS, DITCH CHECKS AND CULVERT INLET PROTECTION SHALL BE REMOVED AFTER FINAL SITE STABILIZATION.
- ALL REPORTS OF NON-COMPLIANCE SHALL BE MAILED TO THE FOLLOWING ADDRESS:
 

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY  
DIVISION OF WATER POLLUTION CONTROL  
COMPLIANCE ASSURANCE SECTION  
1021 NORTH GRAND EAST  
POST OFFICE BOX 19276  
SPRINGFIELD, ILLINOIS 62794-9276

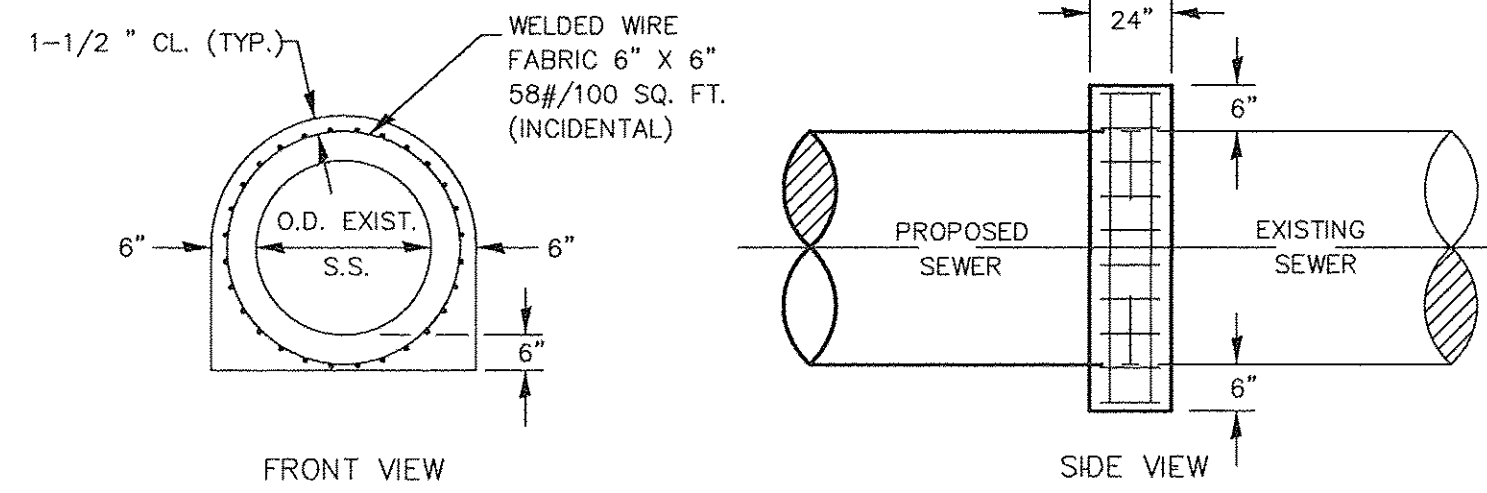
SEDIMENTATION AND EROSION CONTROL NOTES

- SOIL DISTURBANCE SHALL BE CONDUCTED IN SUCH A MANNER AS TO MINIMIZE EROSION. SOIL STABILIZATION MEASURES SHALL CONSIDER THE TIME OF YEAR, SITE CONDITIONS AND THE USE OF TEMPORARY AND PERMANENT MEASURES.
- SOIL EROSION AND SEDIMENT CONTROL FEATURES SHALL BE CONSTRUCTED PRIOR TO THE COMMENCEMENT OF HYDROLOGIC DISTURBANCE OF UPLAND AREAS.
- EROSION CONTROL BLANKET SHALL BE REQUIRED ON ALL INTERIOR DETENTION BASIN SIDE SLOPES BETWEEN NORMAL WATER LEVEL AND HIGH WATER LEVEL.
- ALL STORM SEWERS THAT ARE OR WILL BE FUNCTIONING DURING CONSTRUCTION SHALL BE PROTECTED BY SILT SAVER OR OTHER VILLAGE APPROVED APPROPRIATE SEDIMENT CONTROL MEASURE.
- A STABILIZATION MAT OF AGGREGATE UNDERLAIN WITH FILTER CLOTH (OR OTHER APPROPRIATE MEASURE) SHALL BE LOCATED AT ANY POINT WHERE TRAFFIC WILL BE ENTERING OR LEAVING A CONSTRUCTION SITE TO OR FROM A PUBLIC RIGHT-OF-WAY, STREET, ALLEY OR PARKING AREA. ANY 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.
- SOIL STOCKPILES SHALL NOT BE LOCATED IN A FLOOD PRONE AREA OR A DESIGNATED BUFFER PROTECTING WATERS OF THE UNITED STATES OR ISOLATED WATERS OF WILL COUNTY.
- IF DE-WATERING IS USED, ADJOINING PROPERTIES AND DISCHARGE LOCATIONS SHALL BE PROTECTED FROM EROSION. DISCHARGES SHALL BE ROUTED THROUGH AN EFFECTIVE SEDIMENT CONTROL MEASURE (E.G. SEDIMENT TRAP, SEDIMENT BASIN, OR OTHER APPROPRIATE MEASURES).
- THE EROSION CONTROL MEASURES INDICATED ON THE PLANS ARE THE MINIMUM REQUIREMENTS. ADDITIONAL MEASURES MAY BE REQUIRED, AS DIRECTED BY THE ENGINEER OR GOVERNING AGENCY.

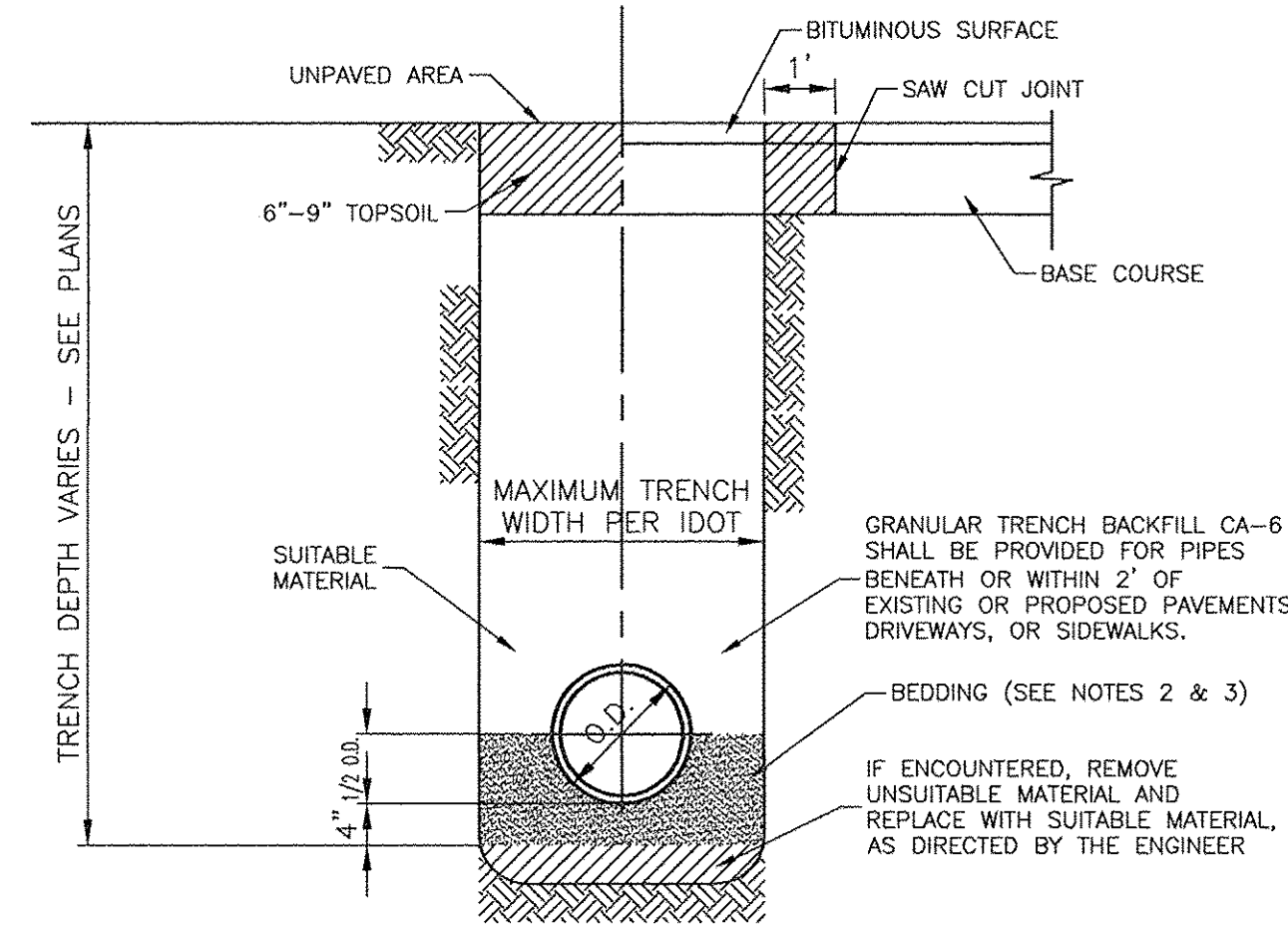


FILE NAME = 11283-SWPPP-01 - IDOT SWPP	DESIGNED = KJB	REVISOR =	F.A.U. 0393 (MCEVILLY ROAD)	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
USER NAME =	CHECKED = HLG	REVISOR =	MULTI-USE PATH - LIONS PARK TO VISTA COURT	0393	10-00056-00-BT	GRUNDY/WILL	32	11
PLOT SCALE =	DRAWN = JJB	REVISOR =	STORM WATER POLLUTION PREVENTION PLAN					
PLOT DATE = 4-19-16	CHECKED = ACAD	REVISOR =	SCALE: 1" = 50'	SHEET NO. 11	OF 32 SHEETS	STA.	TO STA.	CONTRACT NO. 87631
				FED. ROAD DIST. NO. 3	ILLINOIS	FED. AID PROJECT TE-00D3 (093)		



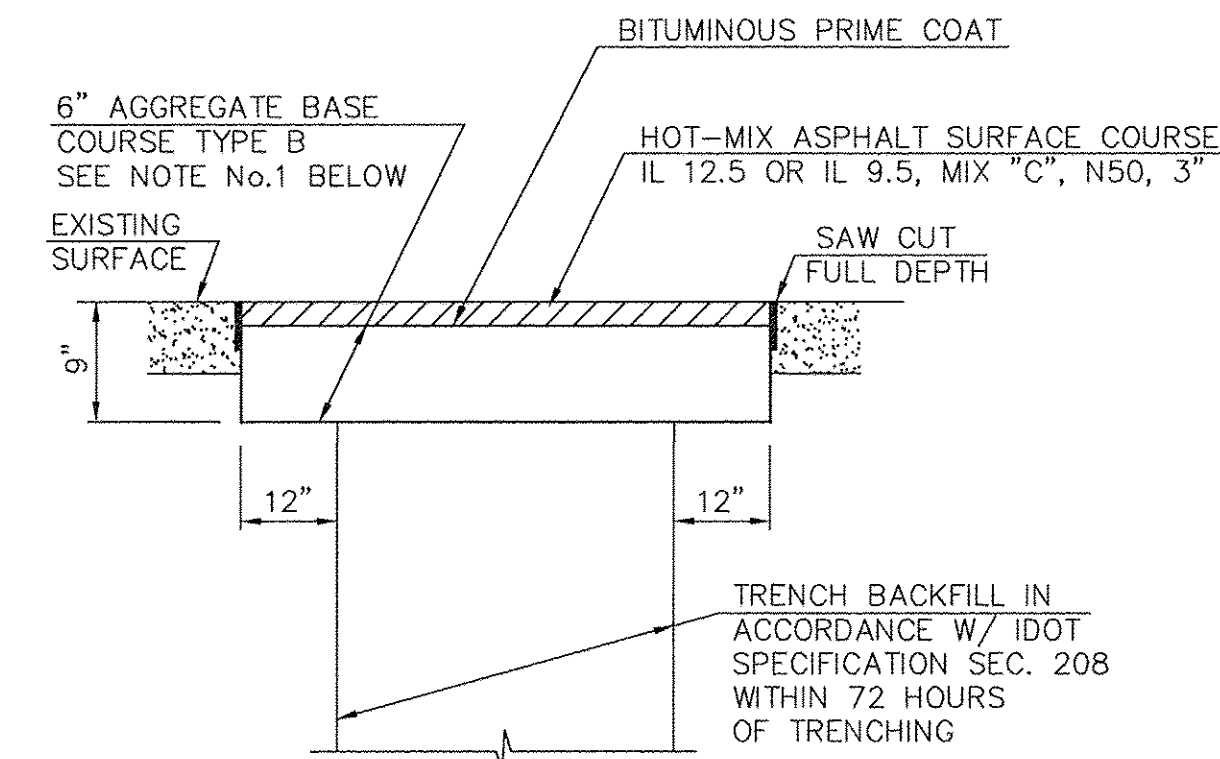


**CONCRETE COLLAR FOR SEWER CONNECTION**



- NOTES:**
- TRENCH SHALL BE IN ACCORDANCE WITH OSHA SAFETY STANDARDS.
  - BEDDING SHALL BE REQUIRED TO BE A MINIMUM THICKNESS EQUAL TO 1/4 OF THE OUTSIDE DIAMETER OF THE PIPE BUT SHALL NOT BE MORE THAN 8" AND LESS THAN 4". AS A MINIMUM, BEDDING AND HAUNCHING MATERIAL SHALL CONFORM TO THE REQUIREMENTS OF THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION." THE GRADATIONS SHALL EITHER BE FA-1 OR FA-2.
  - WHEN STORM SEWER CONSTRUCTION OCCURS IN COMBINED SEWER AREAS, BEDDING AND HAUNCHING MATERIAL SHALL CONFORM TO THE REQUIREMENTS OF THE "METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO." THE GRADATIONS SHALL EITHER BE CA-11 OR CA-13.

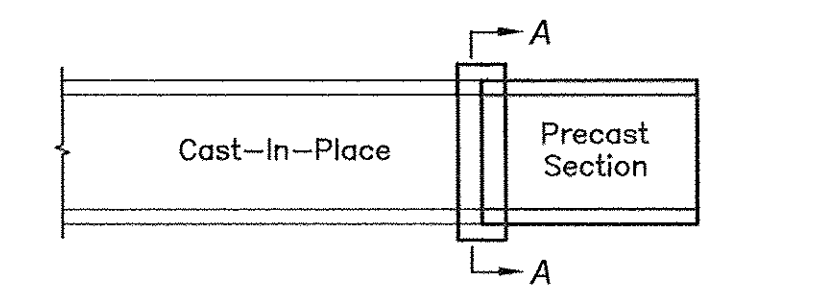
**TRENCH BACKFILL DETAIL FOR STORM SEWER**



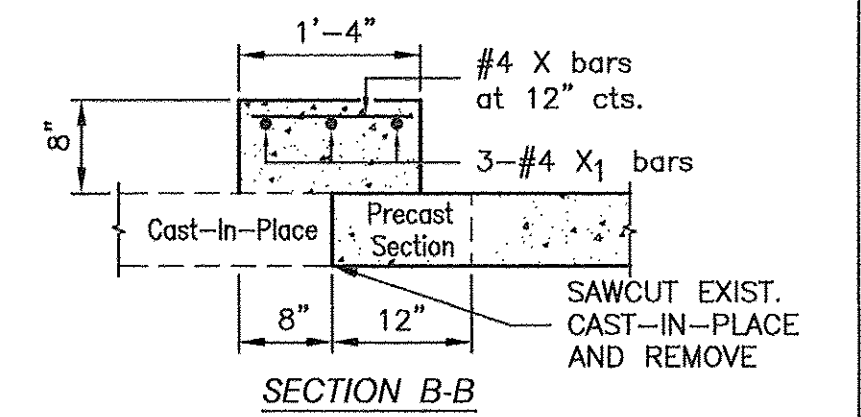
- NOTE:**
- CONTRACTOR TO PLACE CA-6 AGGREGATE, 9" THICK TO TOP SURFACE OF EXISTING DRIVEWAY PAVEMENT TO PROVIDE TEMPORARY SURFACING UNTIL PLACEMENT OF HOT-MIX ASPHALT SURFACE. CONTRACTOR TO REMOVE TOP 3" OF AGGREGATE PRIOR TO PLACEMENT OF HOT-MIX ASPHALT SURFACE. PAYMENT TO BE AT THE CONTRACT PRICE PER SQUARE YARD AND WORK SHALL INCLUDE ALL LABOR AND MATERIALS REQUIRED TO RESTORE PAVEMENT AS DETAILED, INCLUDING PLACING AND REMOVING THE ADDITIONAL 3" AGGREGATE REQUIRED FOR TEMPORARY SURFACE. TRENCH BACKFILL SHALL BE PAID FOR SEPARATELY.

**HOT-MIX ASPHALT DRIVEWAY REPLACEMENT DETAIL**

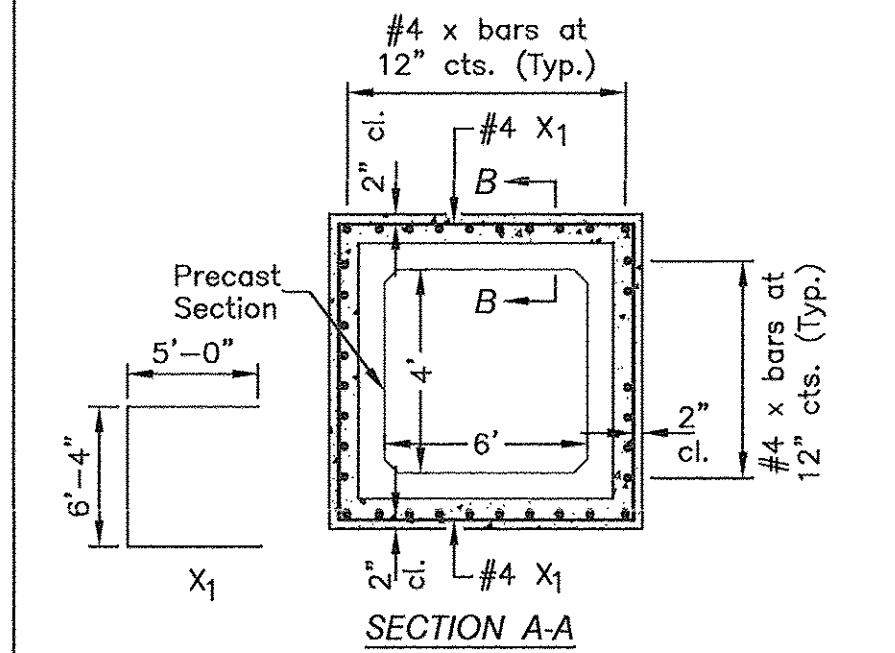
NOT TO SCALE



**ALIGNED SECTIONS PLAN**



**SECTION B-B**



**SECTION A-A**

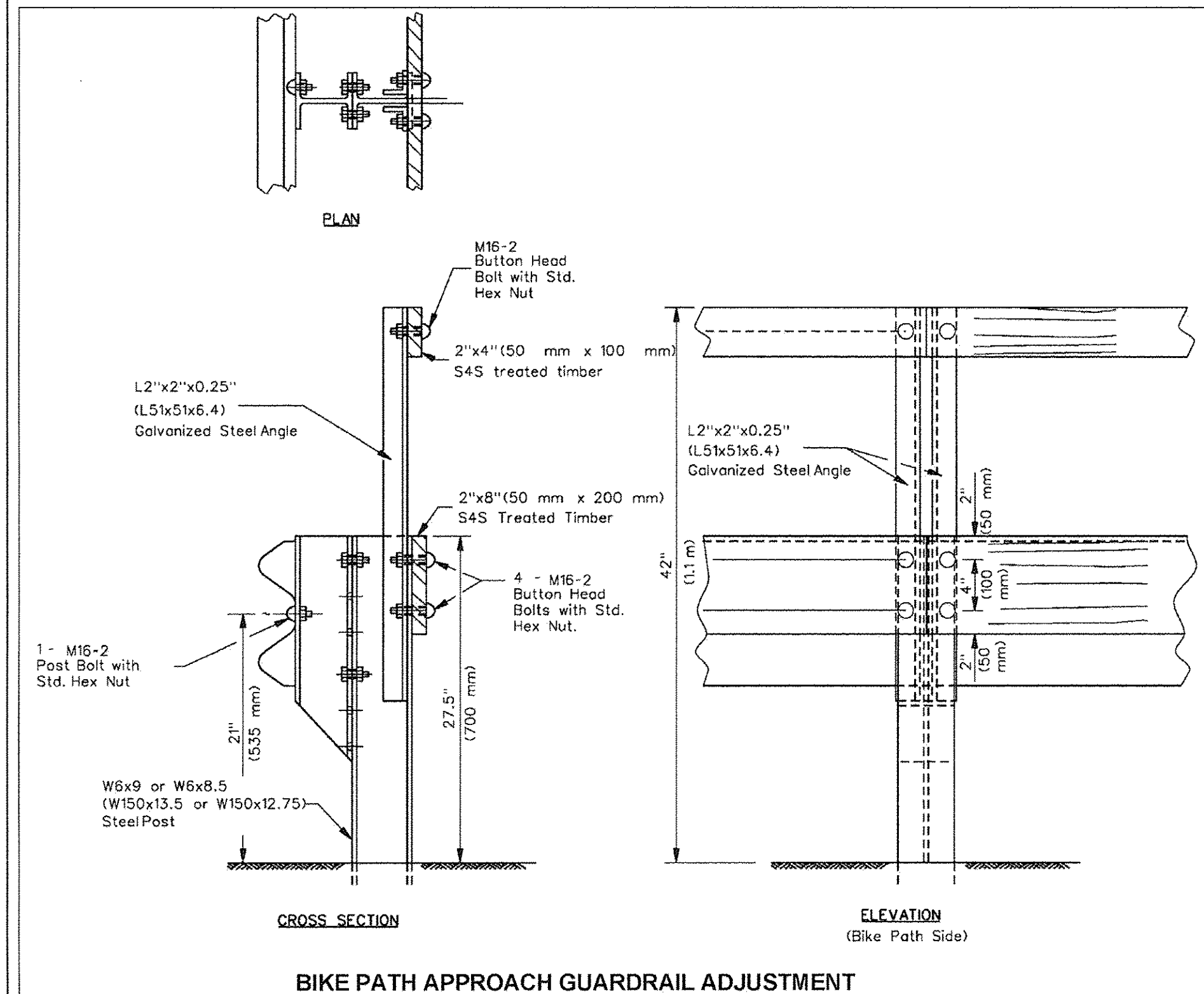
**PRECAST TO CAST-IN-PLACE CONNECTION CONCRETE COLLAR DETAIL**

**GENERAL NOTE**

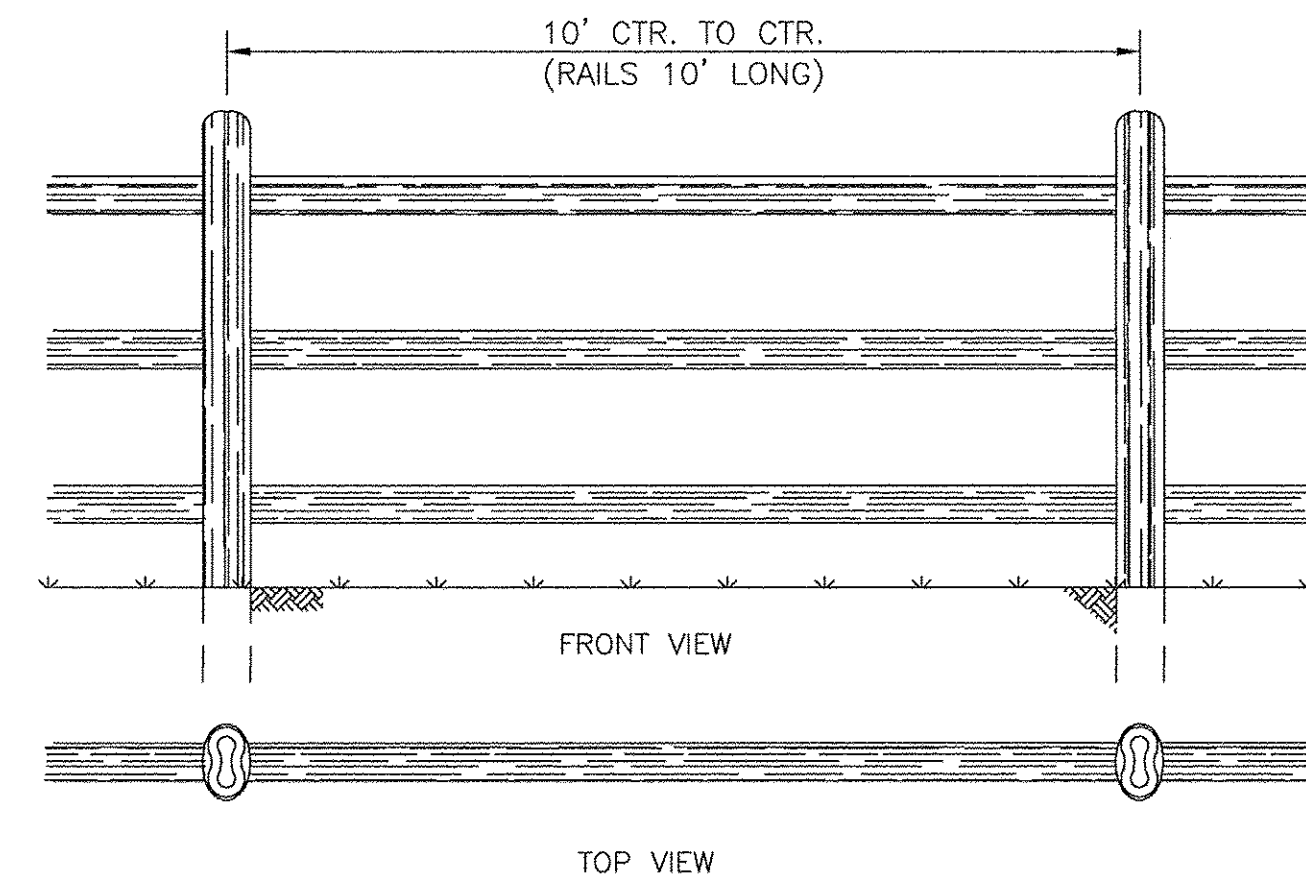
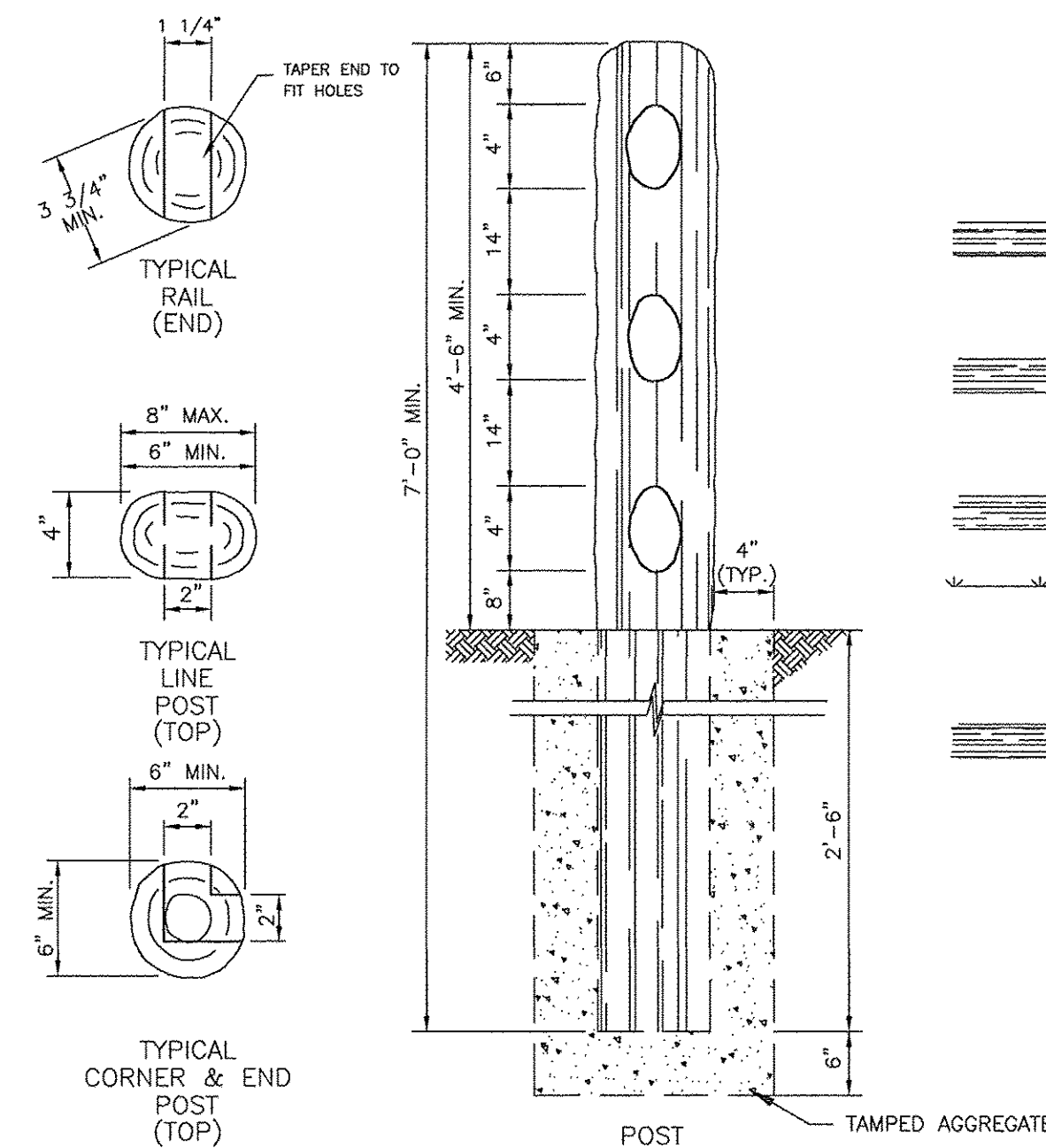
PRECAST CONCRETE BOX CULVERT SECTIONS SHALL CONFORM TO THE REQUIREMENTS OF ARTICLE 540.06 OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE REQUIREMENTS OF AASHTO M 273.

THE MINIMUM CONCRETE STRENGTH SHALL BE 5,000 PSI.

REINFORCEMENT BARS SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M 31, M 42, OR M 53 GRADE 60.



**BIKE PATH APPROACH GUARDRAIL ADJUSTMENT**



NOTE: ALL FASTNERS USED TO CONNECT WOOD SHALL BE TYPE 304 OR 316 STAINLESS STEEL DECK TYPE SCREWS.

**SPLIT RAIL FENCE**

NOT TO SCALE

FILE NAME = 11283-DTLS-01 - IDOT D3 - IDOT D1

USER NAME =	DESIGNED — KJB	REVISED —
PLOT SCALE =	CHECKED — HLG	REVISED —
PLOT DATE = 4-19-16	DRAWN — JJB	REVISED —
	CHECKED — ACAD	REVISED —

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

F.A.U. 0393 (MCEVILLY ROAD)  
MULTI-USE PATH - LIONS PARK TO VISTA COURT  
CONSTRUCTION DETAILS

SCALE: NONE SHEET NO. 12 OF 32 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0393	10-00056-00-BT	GRUNDY/WILL	32	12
CONTRACT NO. 87631				
FED. ROAD DIST. NO. 3	ILLINOIS	FED. AID PROJECT TE-00D3 (093)		



**GENERAL NOTES:**

1. **CODES AND STANDARDS:**  
 ASSHTO LRFD BRIDGE DESIGN SPECIFICATIONS WITH 2015 INTERIMS  
 ACI 318-14 BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE  
 ILLINOIS DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND  
 BRIDGE CONSTRUCTION ADOPTED JANUARY 1, 2012  
 ILLINOIS DEPARTMENT OF TRANSPORTATION GUIDE TO BRIDGE SPECIAL PROVISIONS  
 (GBSPS)  
 ILLINOIS DEPARTMENT OF TRANSPORTATION SUPPLEMENTAL SPECIFICATIONS AND RECURRING  
 SPECIAL PROVISIONS ADOPTED JANUARY 1, 2015  
 AWS AMERICAN WELDING SOCIETY, LATEST EDITION  
 ASTM AMERICAN SOCIETY OF TESTING AND MATERIALS
2. **DESIGN STRESSES**  
 2.1.  $f'_c = 3,500$  PSI  
 2.2.  $f_y = 60,000$  PSI (REINFORCEMENT)  
 2.3.  $F_y = 50,000$  PSI (M270 GRADE 50)
3. **DESIGN LOADS:**  
 3.1. SURCHARGE ON LEVEL GROUND (BIKE PATH): 100 PSF  
 3.2. ALLOWABLE SHEATHING DEFLECTION VARIES  $\frac{1}{2}$ " -  $\frac{1}{8}$ "
4. **SOILS DATA (ASSUMED IN DESIGN):**  
 4.1. REFER TO SOIL PARAMETERS TABLE FOR DESIGN VALUES  
 4.2. SELECT BACKFILL: GRANULAR MATERIAL  
 4.3. RETAINED: SILTY CLAY, STIFF TO HARD  
 4.4. FOUNDATION: SILTY CLAY, STIFF TO HARD  
 4.5. DRAINAGE AGGREGATE: COARSE AGGREGATE (SEE TABLE)
5. **GENERAL:**  
 5.1. EARTH RETENTION DESIGN IS BASED ON THE ABOVE SOILS DATA ESTIMATED FROM TYPICAL SOILS, AS OBTAINED IN THE BORELOGS AND INFORMATION PROVIDED BY FLOOD TESTING LABORATORIES, INC. AN APPROVED AND COMPETENT TESTING LABORATORY SHALL CONFIRM SITE SOILS AND CONTACT ENGINEER IF DIFFERING SOIL CONDITIONS ARE ENCOUNTERED.  
 5.2. CONTRACTOR IS RESPONSIBLE FOR PROVIDING ACCESS, BARRICADING, AND FALL PROTECTION, IN ACCORDANCE WITH ALL LOCAL, STATE, FEDERAL AND OSHA GUIDELINES.  
 5.3. USE E70XX ELECTRODES. ALL WELDING SHALL BE PERFORMED BY A CERTIFIED WELDER IN ACCORDANCE WITH LATEST EDITION OF THE AWS D1.1  
 5.4. ALL STEEL SHAPES SHALL BE IN GOOD CONDITION AND SHALL BE FREE OF ANY HOLES OR VISUAL DEFECTS.  
 5.5. ALL VOIDS BETWEEN THE EXCAVATED SOIL AND THE FACE OF THE SHORING SYSTEM MUST BE BACKFILLED WITH EXCAVATED SOIL OR OTHER APPROVED BACKFILL PRIOR TO THE WORKERS ENTERING THE EXCAVATION. FOR EXCAVATIONS ADJACENT TO TRAFFIC LOADING, ALL VOIDS SHALL BE BACKFILLED WITH SAND OR CLASS II AGGREGATE BASE MATERIAL.  
 5.6. VIRGLIO AND ASSOCIATES, LTD WILL NOT SUPERVISE, DIRECT, CONTROL OR HAVE AUTHORITY OVER OR BE RESPONSIBLE FOR CONTRACTOR'S MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES OF CONSTRUCTION, OR THE SAFETY PRECAUTIONS AND PROGRAMS INCIDENT THERETO, OR FOR ANY FAILURE OF CONTRACTOR TO COMPLY WITH THE LAWS AND REGULATIONS APPLICABLE TO THE FURNISHING OR PERFORMANCE OF WORK.  
 5.7. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE ACCURACY OF ALL DIMENSIONS FOR BOTH EXISTING AND PROPOSED WORK, AND SHALL VERIFY THAT REQUIRED CLEARANCES ARE OBTAINED PRIOR TO COMMENCEMENT OF THE WORK.  
 5.8. THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING UNDERGROUND UTILITIES PRIOR TO COMMENCING THE EXCAVATION.  
 5.9. VIRGLIO AND ASSOCIATES, LTD. BEARS NO RESPONSIBILITY OR LIABILITY FOR ANY SETTLEMENT, MOVEMENT, OR DAMAGE OF ANY KIND THAT MAY OCCUR TO SURROUNDING SOILS, EXISTING BUILDING STRUCTURES, UTILITIES, ETC. DUE TO SHORING INSTALLATION, DEFLECTION, REMOVAL, OR OTHER CONSTRUCTION ACTIVITIES. THE CONTRACTOR SHALL MONITOR FOR MOVEMENT.  
 5.10. PROVIDE CONTROL JOINTS AT 30 FEET ON CENTER AND EXPANSION JOINTS AT 90' ON CENTER UNLESS NOTED OTHERWISE.  
 5.11. THE RETAINING WALL DESIGN ONLY CONSIDERS EXTERNAL STABILITY FOR BASE SLIDING AND OVERTURNING. THE PROJECT GEOTECHNICAL ENGINEER SHALL REVIEW OTHER EXTERNAL STABILITY CONSIDERATIONS, INCLUDING BUT NOT LIMITED TO, SLOPE STABILITY, SETTLEMENT AND BEARING CAPACITY.  
 5.12. FILTER FABRIC SHALL MEET OR EXCEED THE REQUIREMENTS OF AASHTO M288-06 FOR A GEOTEXTILE CLASS 3, WITH 50% OR GREATER ELONGATION ALLOWED. THE APPARENT OPENING SIZE SHALL BE 70 US SIEVE (0.212MM). THE RETAINED STRENGTH AFTER 500 HRS OF UV EXPOSURE SHALL BE GREATER THAN 50%.  
 5.13. THE CONTRACTOR SHALL VERIFY ALL WALL ELEVATIONS, WALL STEPS, DIMENSIONS AND REQUIRED CLEARANCES ARE ACCURATE AND OBTAINABLE PRIOR TO COMMENCEMENT OF THE WORK. THE CONTRACTOR SHALL COORDINATE EXISTING CONSTRUCTION AND/OR ADJACENT CONSTRUCTION WITH OTHER TRADE CONTRACTORS AND WITH DESIGN DRAWINGS PREPARED BY OTHERS.  
 5.14. FILL MATERIALS SHALL BE FREE FROM ORGANIC OR DELETERIOUS MATERIALS.  
 5.15. MATERIAL PASSING THE NO. 200 SIEVE SHALL NOT HAVE A LIQUID LIMIT GREATER THAN 30 NOR A PLASTICITY INDEX GREATER THAN 20 UNLESS APPROVED IN WRITING BY THE ENGINEER.  
 5.16. SOILS SHALL BE COMPACTED TO 95% STANDARD PROCTOR DENSITY.  
 5.17. THE CONTRACTOR IS RESPONSIBLE FOR THE DESIGN AND PERFORMANCE OF THE LAGGING USING NO LESS THAN 3 IN. NOMINAL ROUGH-SAWN TIMBER THICKNESS AND WITH A MINIMUM ALLOWABLE BENDING STRESS OF 1000 PSI.

**REINFORCEMENT**

- R1. UNLESS NOTED OTHERWISE, REINFORCEMENT SHALL CONFORM TO ASTM SPECIFICATION A615, GRADE 60 (EPOXY COATED).
- R4. ALL CONCRETE FORMED SLAB OR WALL OPENINGS SHALL BE REINFORCED WITH 2 NO. 5 BARS PLACED ONE IN EACH FACE AT 45 DEGREES TO OPENING CORNERS.
- R5. THE FOLLOWING CONCRETE COVER SHALL BE PROVIDED FOR REINFORCEMENT UNLESS NOTED OTHERWISE:

MINIMUM CONCRETE PROTECTION FOR REINFORCEMENT	
CONCRETE ELEMENT	MIN. COVER (IN.)
CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH	3"
CONCRETE EXPOSED TO EARTH OR WEATHER	2"

- R6. ARRANGEMENT AND DETAILS FOR REINFORCEMENT, INCLUDING BAR SUPPORTS AND SPACERS, SHALL BE IN ACCORDANCE WITH THE "A.C.I. DETAILING MANUAL (ACI SP-66)," LATEST EDITION.
- R7. PROVIDE ALL ACCESSORIES NECESSARY TO SUPPORT REINFORCEMENT AT THE POSITIONS INDICATED. PLASTIC COATED ACCESSORIES SHALL BE USED IN ALL EXPOSED CONCRETE WORK.
- R8. ALL EMBEDMENT LENGTHS AND LAPS SHALL BE AS REQUIRED BY ACI 318. MINIMUM BAR SPLICE:  
 #4 BARS = 2'-3"  
 #5 BARS = 3'-0"  
 #6 BARS = 4'-0"
- R9. CONTRACTOR TO SUBMIT SHOP DRAWINGS FOR STEEL REINFORCEMENT LAYOUT AND DETAILS, REINFORCEMENT TEST REPORTS AND CERTIFICATES.
- R10. ALL REINFORCEMENT SHALL BE EPOXY COATED

**CONCRETE**

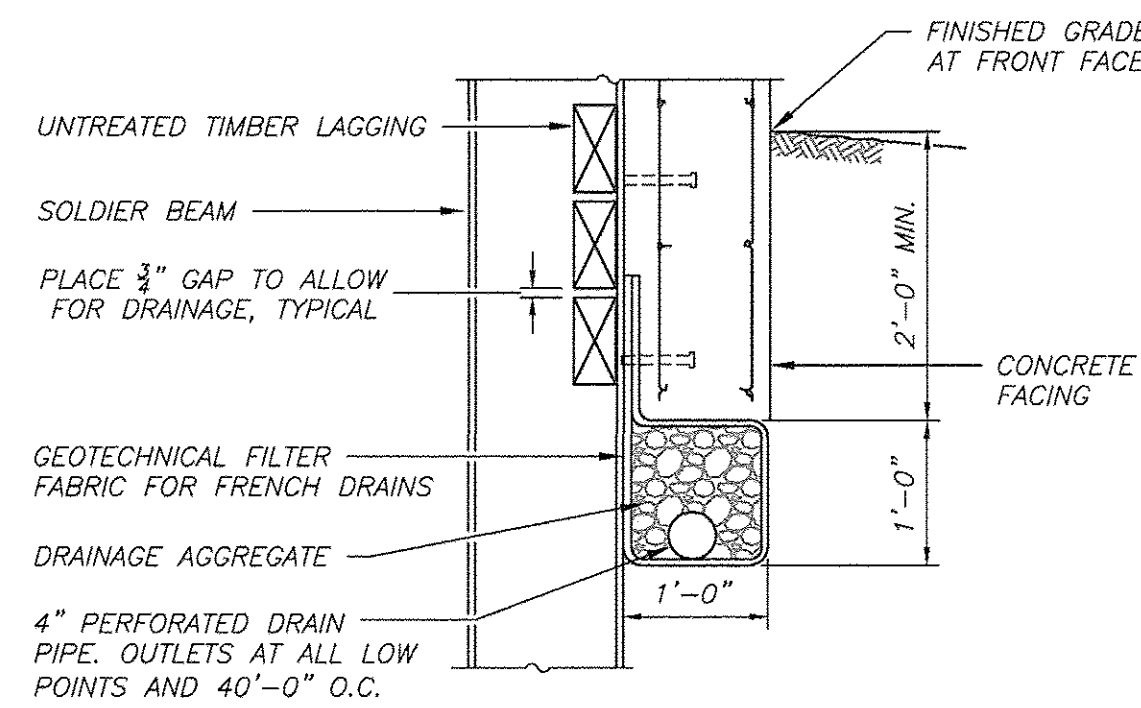
- C1. UNLESS NOTED OTHERWISE, CONCRETE SHALL BE NORMAL WEIGHT CONCRETE AND SHALL DEVELOP 4000 PSI MINIMUM COMPRESSIVE STRENGTH IN 28 DAYS. SEE TABLE BELOW FOR OTHER MIX DESIGN PARAMETERS.
- C2. VERTICAL WALL CONSTRUCTION JOINTS SHALL BE FORMED WITH VERTICAL BULKHEADS AND KEYWAYS. WALL REINFORCING SHALL BE CONTINUOUS THROUGH THE JOINT OR SHALL BE DOWELED WITH AN EQUIVALENT AREA OF REINFORCEMENT.
- C3. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE LOCATION AND PLACEMENT OF INSERTS, EMBEDDED PLATES, MASONRY ANCHORS, REGLETS, SLEEVES, DUCTWORK, PADS, AND ANCHOR RODS. THE INSERTS, EMBEDDED PLATES, ETC. SHALL NOT INTERFERE WITH CONCRETE REINFORCEMENT LOCATION.
- C4. NO OPENING SHALL BE MADE IN ANY STRUCTURAL MEMBER WITHOUT THE WRITTEN APPROVAL OF THE ENGINEER.
- C5. ALL EXPOSED CONCRETE EDGES SHALL HAVE A  $\frac{3}{4}$ " X 45° CHAMFER EXCEPT WHERE NOTED OTHERWISE. CHAMFER ON VERTICAL EDGES SHALL BE A CONTINUED A MINIMUM OF 1'-0" BELOW FINISHED GROUND LEVEL.
- C6. REINFORCEMENT BAR BENDING DETAILS SHALL BE IN ACCORDANCE WITH THE LATEST "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES" ACI 315
- C7. CONTRACTOR TO SUBMIT:  
 • CONCRETE MIX DESIGN FOR EACH CONCRETE MIXTURE IN ACCORDANCE WITH ACI-211
- C8. THE OWNER WILL ENGAGE A QUALIFIED INDEPENDENT TESTING AND INSPECTION AGENCY TO PERFORM FIELD TESTS AND INSPECTION AND PREPARE TEST REPORTS IN ACCORDANCE WITH ACI 301.

CONCRETE MIX					
LOCATION	CONCRETE STRENGTH (PSI)	UNIT WEIGHT (PCF)	WATER/CEMENT RATIO (MAX)	AIR ENTRAINMENT	MIN / MAX. AGGREGATE SIZE
WALLS	4,000	145	0.45	6%	$\frac{3}{4}$ " / 1"

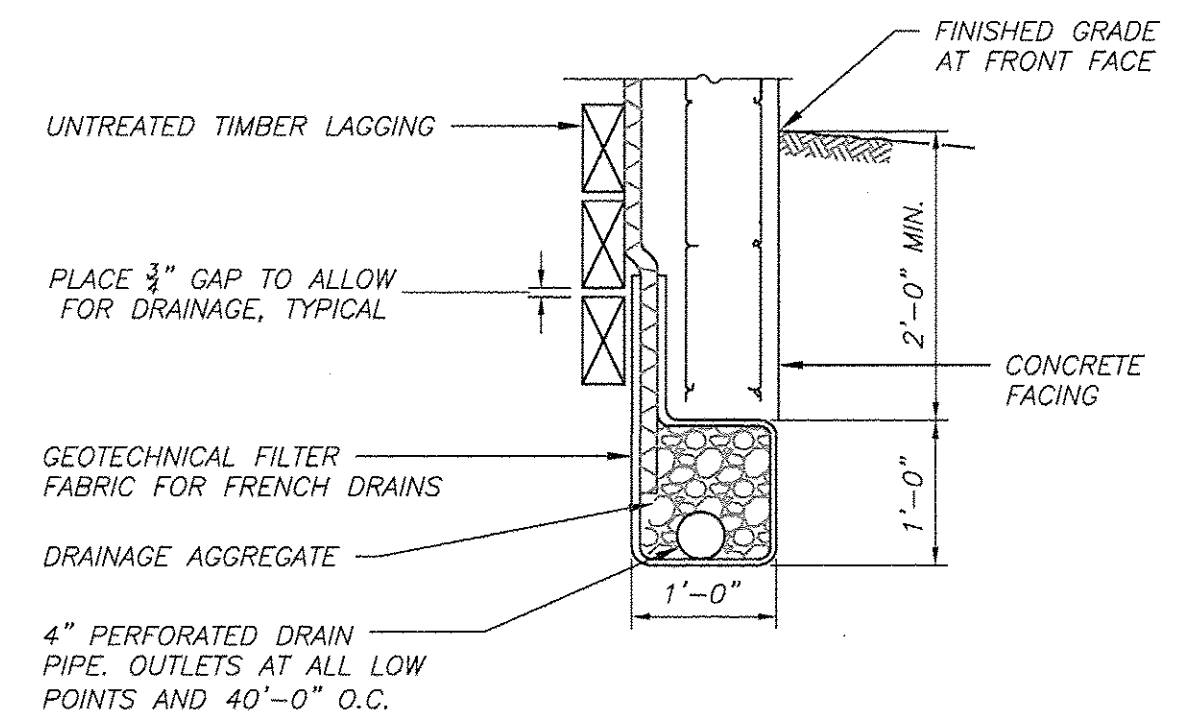
SOIL PARAMETERS				
	SOIL TYPE	FRICTION ANGLE	COHESION	UNIT WEIGHT
SELECT BACKFILL	GRANULAR	36°	0 PSF	120 PCF
RETAINED SOILS	SITE SOILS	30°	0 PSF	120 PCF
FOUNDATION SOIL	SITE SOILS	30°	0 PSF	120 PCF

UNIT FILL / DRAINAGE AGGREGATE	
U.S. SIEVE NUMBER	PERCENT PASSING
1 INCH	100
$\frac{3}{4}$ INCH	75-100
NO. 4	0-60
NO. 40	0-50
NO. 200	0-5

**SELECT BACKFILL**  
 SELECT GRANULAR BACKFILL SHALL CONSIST OF COURSE AGGREGATE (A & THRU) OR 15 MINIMUM CLASS B PER ARTICLE 1004 OR FINE AGGREGATE (A-1, FA-2 OR FA-20) MINIMUM CLASS B PER ARTICLE 1003 (SEE NOTES/SPECIFICATIONS FOR FILTER FABRIC REQUIREMENTS). PI SHALL BE 4.5 TO 9.0 PER AASHTO T299. AGGREGATE SHALL MEET THE SOIL PARAMETERS LISTED ON PLANS.

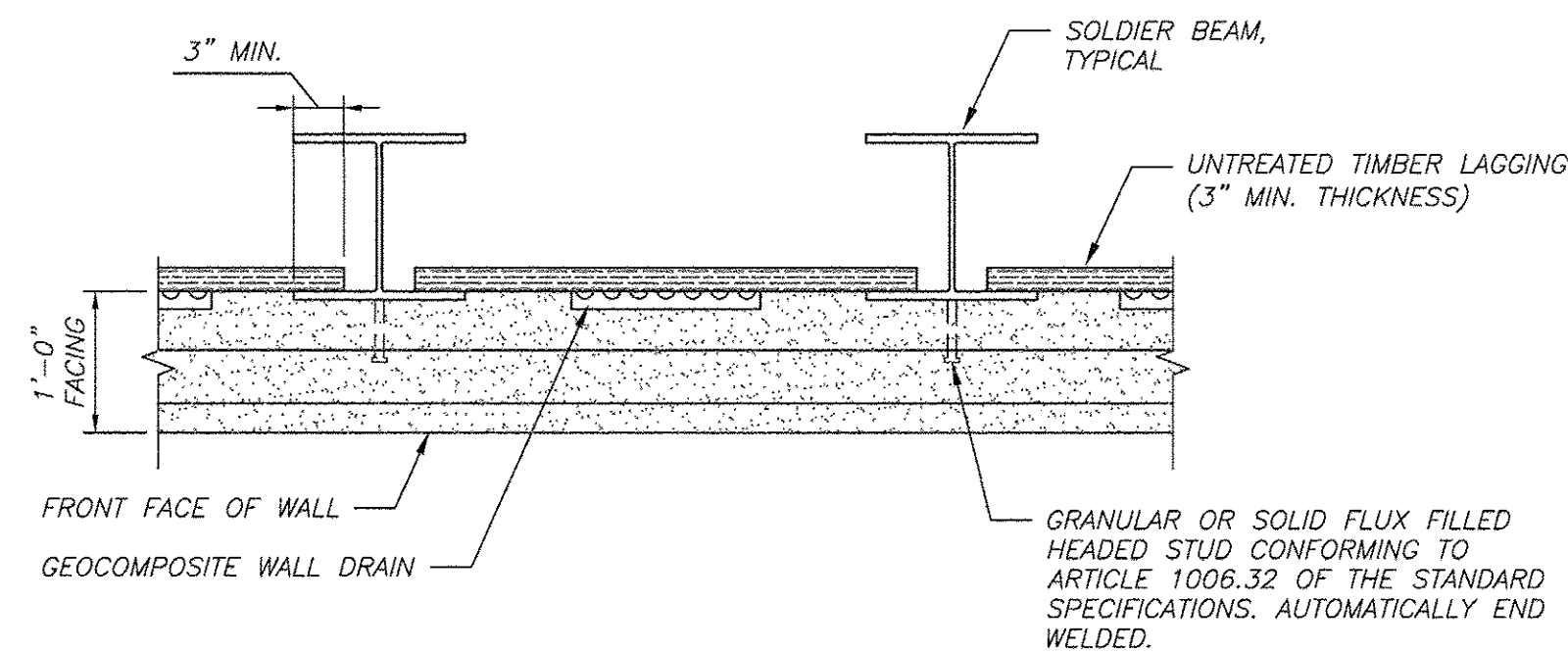


AT SOLDIER BEAMS

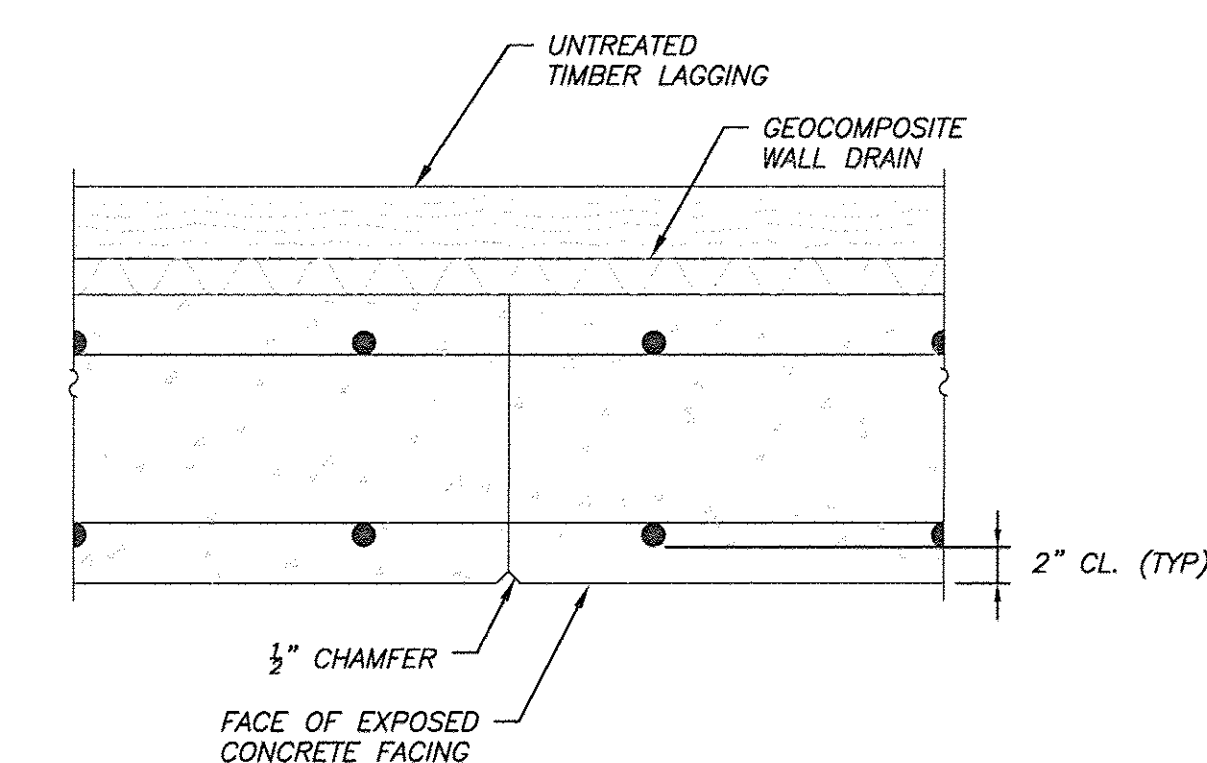


BETWEEN SOLDIER BEAMS

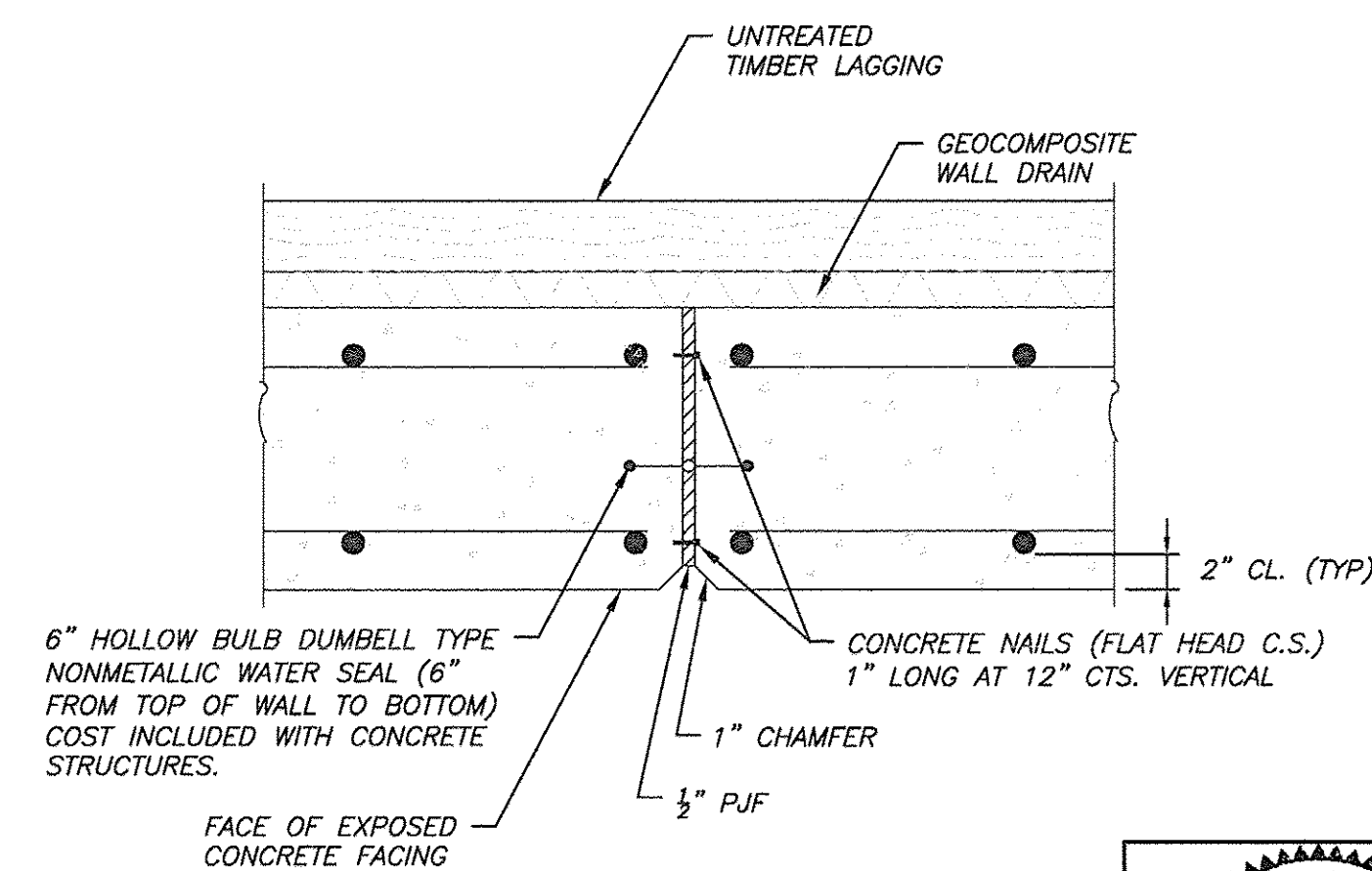
PIPE UNDERDRAIN DETAILS  
 1  
 13  
 $\frac{3}{4}$ " = 1'-0"



2  
 13  
 $\frac{3}{4}$ " = 1'-0"



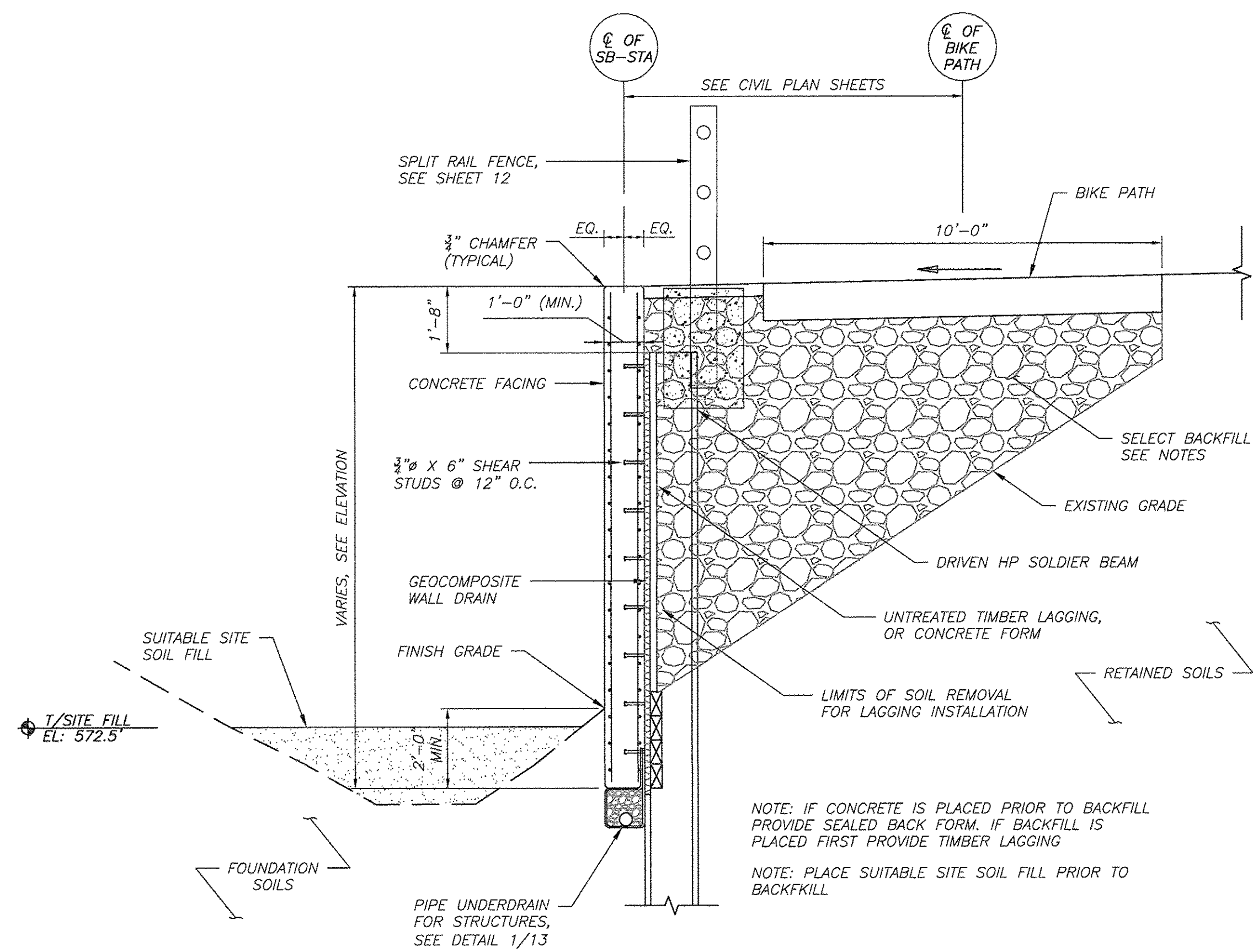
CONSTRUCTION JOINT



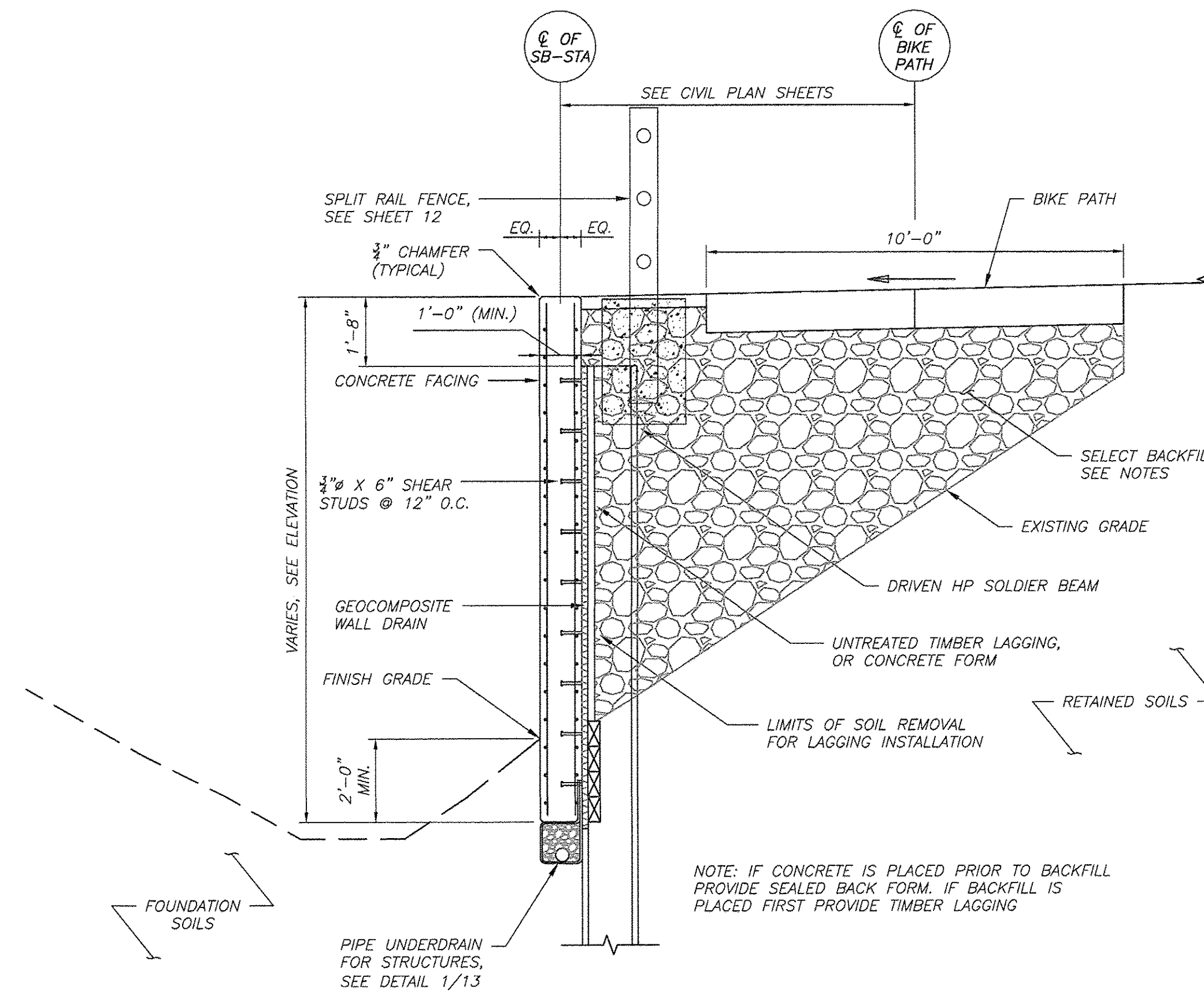
EXPANSION JOINT

**P. VIRGLIO**  
 081-004693  
 LICENSED  
 STRUCTURAL  
 ENGINEER  
 STATE OF ILLINOIS  
 Signature: P. Virgilio Date: 08.19.2016  
 Expires: 11/30/2016

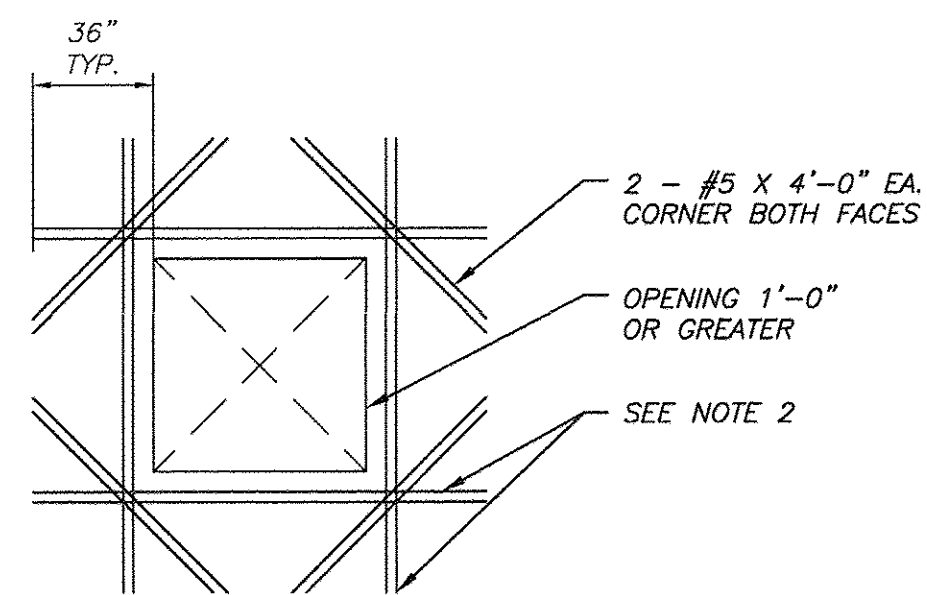




1 SECTION THRU SOLDIER BEAM WALL 1  
14 3/8" = 1'-0" (DO NOT SCALE DRAWINGS)



2 TYPICAL SECTION THRU SOLDIER BEAM WALL  
14 3/8" = 1'-0" (DO NOT SCALE DRAWINGS)

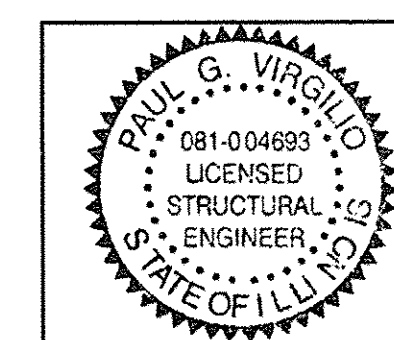


- NOTES:  
1. REINFORCING TYPICAL EACH FACE OF WALL AROUND OPENING.  
2. 1/2 THE INTERRUPTED WALL REINFORCING EACH SIDE OF OPENING PROVIDE ADDITIONAL 2 - #5 AT SIDES AND BOTTOM OF OPENING. SEE PLANS FOR ADDITIONAL REINFORCING ABOVE OPENING.

3 OPENING IN WALL  
14 3/4" = 1'-0"

TOTAL BILL OF MATERIALS

MATERIAL	QUANTITY
SOLDIER PILES	
HP16x162	1160 FEET
HP18x135	1806 FEET
HP18x204	2526 FEET
STUD SHEAR CONNECTORS	1856 EACH
CONCRETE STRUCTURES	320 CU YDS
EPOXY COATED REBAR	47,000 LBS
GRANULAR BACKFILL FOR STRUCTURES	2235 CU YDS
STRUCTURE EXCAVATION	200 CU YDS
SITE FILL	50 CU YDS
GEOCOMPOSITE WALL DRAIN	1,000 SQ YDS
PIPE UNDERDRAIN, 4" Ø	900 FEET
UNTREATED TIMBER LAGGING	2,500 SQ FT
SPLIT RAIL FENCE	800 FEET



Signature: *Paul G. Virgilio* Date: 08.19.2016  
Expires: 11/30/2016

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

F.A.U. 0393 (MCEVILLY ROAD)  
MULTI-USE LIONS PARK TO VISTA COURT  
RETAINING WALL SECTIONS

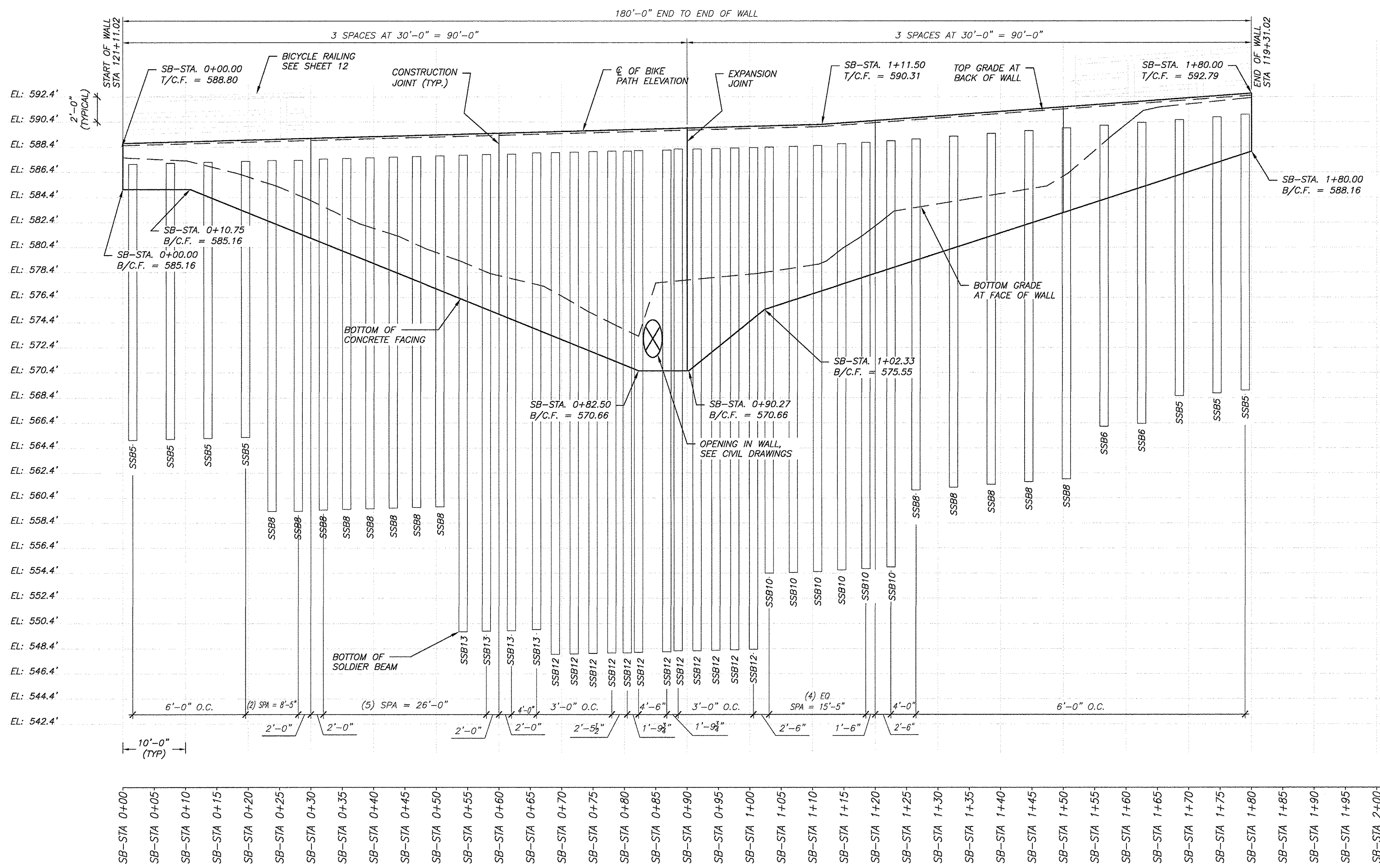
ROBINSON ENGINEERING, LTD.  
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AND PROFESSIONAL LAND SURVEYORS  
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PLOT SCALE =	DRAWN --	REVISED --
PLOT DATE = 08-19-2016	CHECKED -- RSF	REVISED --

SCALE: AS NOTED SHEET NO. 14 OF 32 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0393	10-00056-00-BT	GRUNDY/WILL	32	14
CONTRACT NO. 87831				
FED. ROAD DIST. NO. 3 ILLINOIS FED. AID PROJECT TE-00D3 (08B)				





**SOLDIER BEAM SCHEDULE**

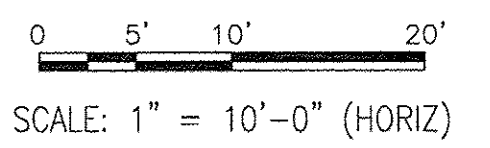
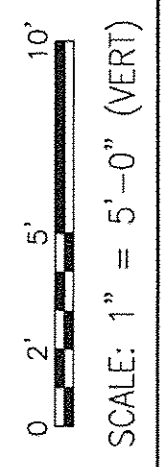
MARK	SIZE	LENGTH	STUD SHEAR CONNECTORS
SSB1	NOT USED	N/A	N/A
SSB2	HP16x162	26'-0"	6
SSB3	HP16x162	28'-0"	8
SSB4	HP16x162	30'-0"	8
SSB5	HP18x135	22'-0"	5
SSB6	HP18x135	24'-0"	7
SSB7	HP18x135	26'-0"	8
SSB8	HP18x135	28'-0"	11
SSB9	HP18x135	30'-0"	11
SSB10	HP18x204	34'-0"	15
SSB11	HP18x204	40'-0"	16
SSB12	HP18x204	40'-0"	18
SSB13	HP18x204	38'-0"	15
SSB14	HP18x204	42'-0"	17

**SITework QUANTITIES**

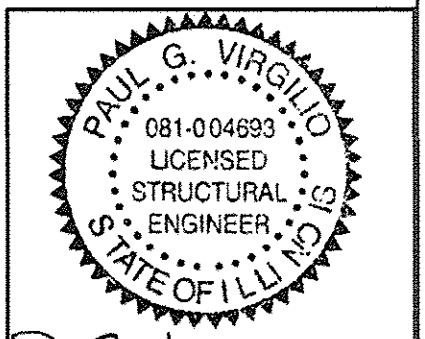
	QUANTITY (CU. YD.)
GRANULAR BACKFILL FOR STRUCTURES	535
SITE FILL	50
STRUCTURE EXCAVATION	45

**WALL #1 SOLDIER BEAM WALL ELEVATION**

- SCALE: VERTICAL: 1" = 5'-0" HORIZONTAL: 1" = 10'-0"
- NOTES:
- SEE TYPICAL SOLDIER BEAM RETAINING WALL SECTION 1/14.
  - START OF WALL IS THE LEFT HAND SIDE OF WALL WHEN STANDING ON THE LOW SIDE OF THE WALL FACING THE WALL.
  - SB-STA REFERS TO @ STATIONING FOR THE SOLDIER BEAM WALL (INDEPENDENT FROM ANY CIVIL STATIONING). SEE SECTION.
  - FOR MINIMUM WALL EMBEDMENT SEE ELEVATION.
  - SSB = STEEL SOLDIER BEAM
  - B/SSB = BOTTOM OF SOLDIER BEAM
  - T/C.F. = TOP OF CONCRETE FACING
  - B/C.F. = BOTTOM OF CONCRETE FACING



Signature: *Paul G. Virgilio* Date: 08.19.2016  
 Expires 11/30/2016



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 AND PROFESSIONAL LAND SURVEYORS  
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PLOT DATE = 08-19-2016	DRAWN —	REVISED —
	CHECKED — RSF	REVISED —

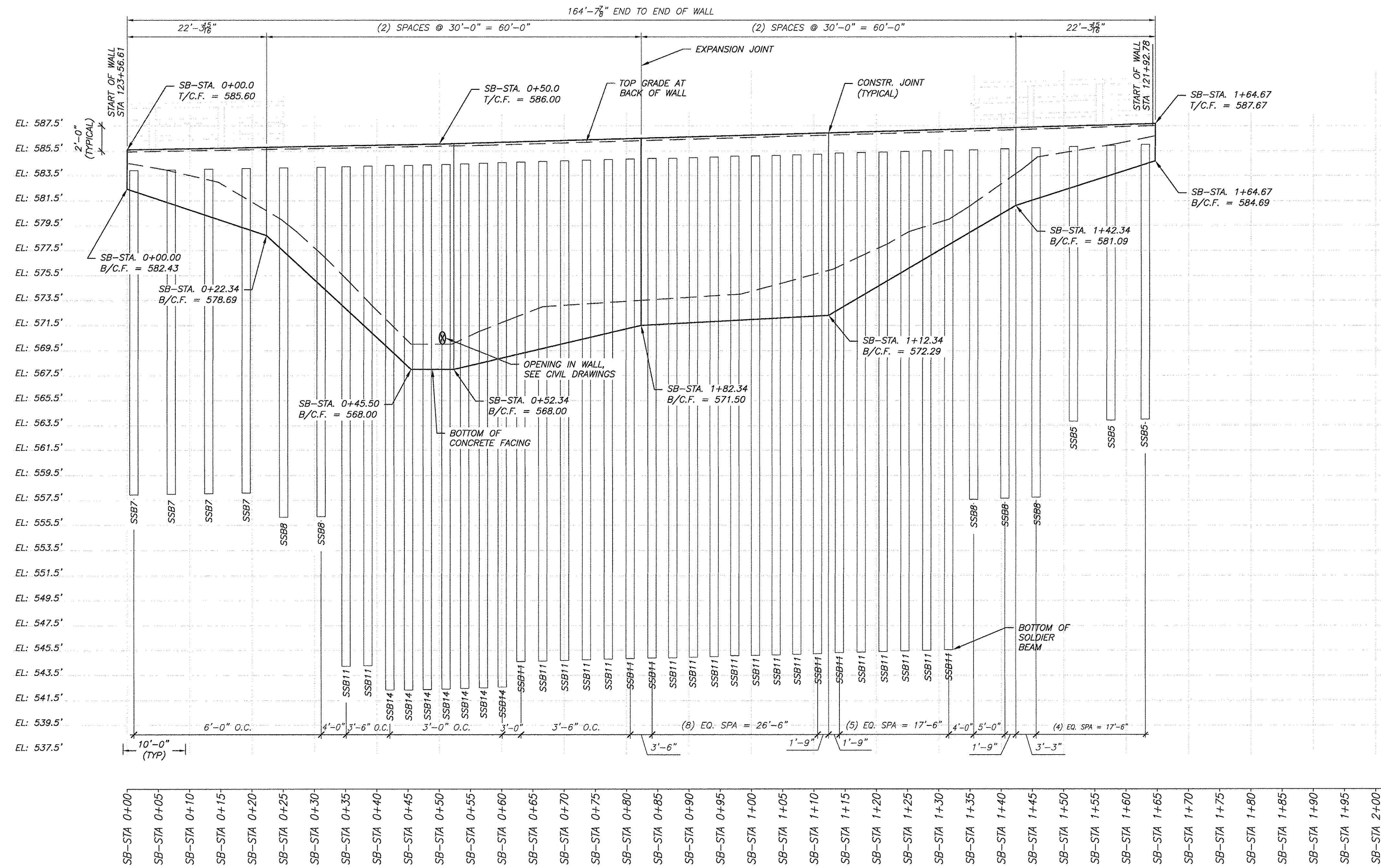
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

F.A.U. 0393 (MCEVILLY ROAD)  
 MULTI-USE LIONS PARK TO VISTA COURT  
 RETAINING WALL PROFILES

SCALE: AS NOTED SHEET NO. 15 OF 32 SHEETS STA. TO STA.

F.A.U. RTE. 0393	SECTION 10-00056-00-BT	COUNTY GRUNDY/WILL	TOTAL SHEETS 32	SHEET NO. 15
FED. ROAD DIST. NO. 3		ILLINOIS	FED. AID PROJECT TE-00D3 (068)	





**SOLDIER BEAM SCHEDULE**

MARK	SIZE	LENGTH	STUD SHEAR CONNECTORS
SSB1	NOT USED	N/A	N/A
SSB2	HP16x162	26'-0"	6
SSB3	HP16x162	28'-0"	8
SSB4	HP16x162	30'-0"	8
SSB5	HP18x135	22'-0"	5
SSB6	HP18x135	24'-0"	7
SSB7	HP18x135	26'-0"	8
SSB8	HP18x135	28'-0"	11
SSB9	HP18x135	30'-0"	11
SSB10	HP18x204	34'-0"	15
SSB11	HP18x204	40'-0"	16
SSB12	HP18x204	40'-0"	18
SSB13	HP18x204	38'-0"	15
SSB14	HP18x204	42'-0"	17

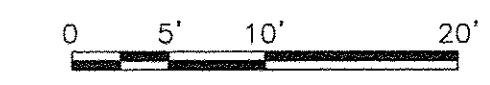
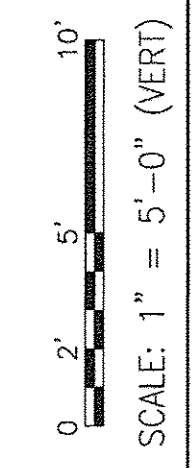
**SITework QUANTITIES**

	QUANTITY (CU. YD.)
GRANULAR BACKFILL FOR STRUCTURES	575
SITE FILL	-
STRUCTURE EXCAVATION	40

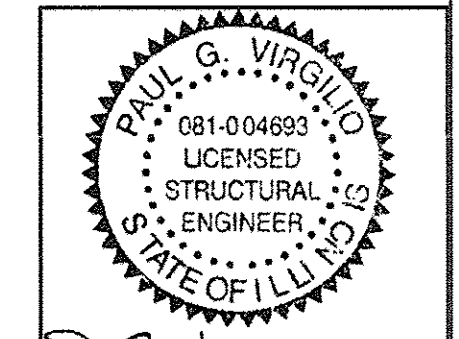
**1 WALL #2 SOLDIER BEAM WALL ELEVATION**

SCALE: VERTICAL: 1" = 5'-0" HORIZONTAL: 1" = 10'-0"

- NOTES:**
- SEE TYPICAL SOLDIER BEAM RETAINING WALL SECTION 1/14.
  - START OF WALL IS THE LEFT HAND SIDE OF WALL WHEN STANDING ON THE LOW SIDE OF THE WALL, FACING THE WALL.
  - SB-STA REFERS TO @ STATIONING FOR THE SOLDIER BEAM WALL (INDEPENDENT FROM ANY CIVIL STATIONING). SEE SECTION.
  - FOR MINIMUM WALL EMBEDMENT SEE ELEVATION.
  - SSB = STEEL SOLDIER BEAM
  - B/SSB = BOTTOM OF SOLDIER BEAM
  - T/C.F. = TOP OF CONCRETE FACING
  - B/C.F. = BOTTOM OF CONCRETE FACING



Signature: *Paul G. Vingilio* Date: 08.19.2016  
 Expires 11/30/2016



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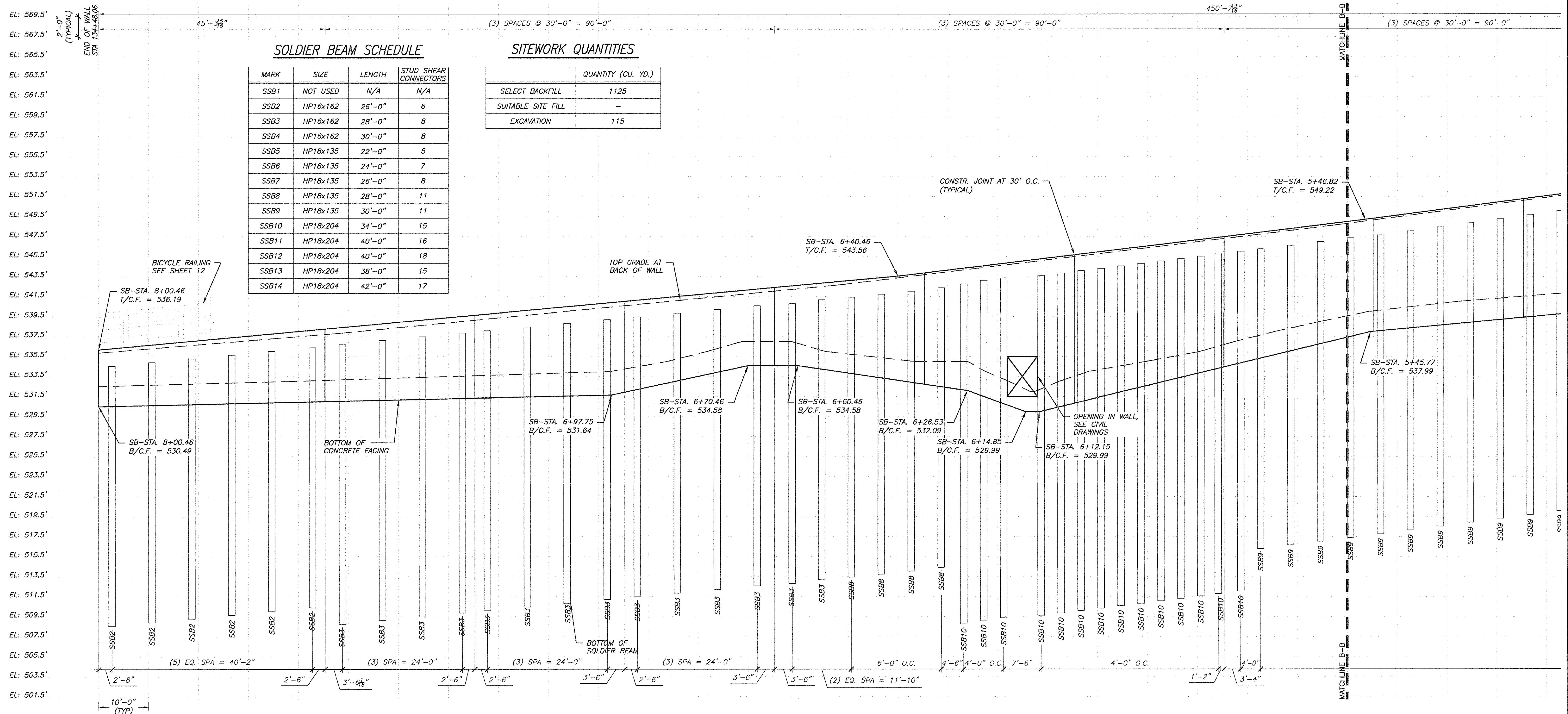
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PLOT SCALE =	CHECKED — RSF	REVISED —
PLOT DATE = 08-19-2016	DRAWN —	REVISED —
	CHECKED — RSF	REVISED —

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

F.A.U. 0393 (MCEVILLY ROAD)  
 MULTI-USE LIONS PARK TO VISTA COURT  
 RETAINING WALL PROFILES  
 SCALE: AS NOTED SHEET NO. 16 OF 32 SHEETS STA. TO STA.

F.A.U. RTE. 0393	SECTION 10-00056-00-BT	COUNTY GRUNDY/WILL	TOTAL SHEETS 32	SHEET NO. 16
FED. ROAD DIST. NO. 3 ILLINOIS		FED. AID PROJECT TE-00D3 (068)		





**SOLDIER BEAM SCHEDULE**

MARK	SIZE	LENGTH	STUD SHEAR CONNECTORS
SSB1	NOT USED	N/A	N/A
SSB2	HP16x162	26'-0"	6
SSB3	HP16x162	28'-0"	8
SSB4	HP16x162	30'-0"	8
SSB5	HP18x135	22'-0"	5
SSB6	HP18x135	24'-0"	7
SSB7	HP18x135	26'-0"	8
SSB8	HP18x135	28'-0"	11
SSB9	HP18x135	30'-0"	11
SSB10	HP18x204	34'-0"	15
SSB11	HP18x204	40'-0"	16
SSB12	HP18x204	40'-0"	18
SSB13	HP18x204	38'-0"	15
SSB14	HP18x204	42'-0"	17

**SITework QUANTITIES**

	QUANTITY (CU. YD.)
SELECT BACKFILL	1125
SUITABLE SITE FILL	-
EXCAVATION	115

WALL STATIONING	SB-STA 8+00	SB-STA 8+05	SB-STA 8+10	SB-STA 8+15	SB-STA 8+20	SB-STA 8+25	SB-STA 8+30	SB-STA 8+35	SB-STA 8+40	SB-STA 8+45	SB-STA 8+50	SB-STA 8+55	SB-STA 8+60	SB-STA 8+65	SB-STA 8+70	SB-STA 8+75	SB-STA 8+80	SB-STA 8+85	SB-STA 8+90	SB-STA 8+95	SB-STA 9+00	SB-STA 9+05	SB-STA 9+10	SB-STA 9+15	SB-STA 9+20	SB-STA 9+25	SB-STA 9+30	SB-STA 9+35	SB-STA 9+40	SB-STA 9+45	SB-STA 9+50	SB-STA 9+55	SB-STA 9+60	SB-STA 9+65	SB-STA 9+70	SB-STA 9+75	SB-STA 9+80	SB-STA 9+85	SB-STA 9+90	SB-STA 9+95	SB-STA 10+00	SB-STA 10+05	SB-STA 10+10	SB-STA 10+15	SB-STA 10+20	SB-STA 10+25	SB-STA 10+30	SB-STA 10+35	SB-STA 10+40	SB-STA 10+45	SB-STA 10+50	SB-STA 10+55	SB-STA 10+60	SB-STA 10+65	SB-STA 10+70	SB-STA 10+75	SB-STA 10+80	SB-STA 10+85	SB-STA 10+90	SB-STA 10+95	SB-STA 11+00	SB-STA 11+05	SB-STA 11+10	SB-STA 11+15	SB-STA 11+20	SB-STA 11+25	SB-STA 11+30	SB-STA 11+35	SB-STA 11+40	SB-STA 11+45	SB-STA 11+50	SB-STA 11+55	SB-STA 11+60	SB-STA 11+65	SB-STA 11+70	SB-STA 11+75	SB-STA 11+80	SB-STA 11+85	SB-STA 11+90	SB-STA 11+95	SB-STA 12+00	SB-STA 12+05	SB-STA 12+10	SB-STA 12+15	SB-STA 12+20	SB-STA 12+25	SB-STA 12+30	SB-STA 12+35	SB-STA 12+40	SB-STA 12+45	SB-STA 12+50	SB-STA 12+55	SB-STA 12+60	SB-STA 12+65	SB-STA 12+70	SB-STA 12+75	SB-STA 12+80	SB-STA 12+85	SB-STA 12+90	SB-STA 12+95	SB-STA 13+00
	SB-STA 8+00	SB-STA 8+05	SB-STA 8+10	SB-STA 8+15	SB-STA 8+20	SB-STA 8+25	SB-STA 8+30	SB-STA 8+35	SB-STA 8+40	SB-STA 8+45	SB-STA 8+50	SB-STA 8+55	SB-STA 8+60	SB-STA 8+65	SB-STA 8+70	SB-STA 8+75	SB-STA 8+80	SB-STA 8+85	SB-STA 8+90	SB-STA 8+95	SB-STA 9+00	SB-STA 9+05	SB-STA 9+10	SB-STA 9+15	SB-STA 9+20	SB-STA 9+25	SB-STA 9+30	SB-STA 9+35	SB-STA 9+40	SB-STA 9+45	SB-STA 9+50	SB-STA 9+55	SB-STA 9+60	SB-STA 9+65	SB-STA 9+70	SB-STA 9+75	SB-STA 9+80	SB-STA 9+85	SB-STA 9+90	SB-STA 9+95	SB-STA 10+00	SB-STA 10+05	SB-STA 10+10	SB-STA 10+15	SB-STA 10+20	SB-STA 10+25	SB-STA 10+30	SB-STA 10+35	SB-STA 10+40	SB-STA 10+45	SB-STA 10+50	SB-STA 10+55	SB-STA 10+60	SB-STA 10+65	SB-STA 10+70	SB-STA 10+75	SB-STA 10+80	SB-STA 10+85	SB-STA 10+90	SB-STA 10+95	SB-STA 11+00	SB-STA 11+05	SB-STA 11+10	SB-STA 11+15	SB-STA 11+20	SB-STA 11+25	SB-STA 11+30	SB-STA 11+35	SB-STA 11+40	SB-STA 11+45	SB-STA 11+50	SB-STA 11+55	SB-STA 11+60	SB-STA 11+65	SB-STA 11+70	SB-STA 11+75	SB-STA 11+80	SB-STA 11+85	SB-STA 11+90	SB-STA 11+95	SB-STA 12+00	SB-STA 12+05	SB-STA 12+10	SB-STA 12+15	SB-STA 12+20	SB-STA 12+25	SB-STA 12+30	SB-STA 12+35	SB-STA 12+40	SB-STA 12+45	SB-STA 12+50	SB-STA 12+55	SB-STA 12+60	SB-STA 12+65	SB-STA 12+70	SB-STA 12+75	SB-STA 12+80	SB-STA 12+85	SB-STA 12+90	SB-STA 12+95	SB-STA 13+00

**WALL #3**  
 SCALE: VERTICAL: 1" = 5'-0" HORIZONTAL: 1" = 10'-0"  
 NOTES:  
 1. SEE TYPICAL SOLDIER BEAM RETAINING WALL SECTION 3/15.  
 2. START OF WALL IS THE LEFT HAND SIDE OF WALL WHEN STANDING ON THE LOW SIDE OF THE WALL, FACING THE WALL.  
 3. SB-STA REFERS TO STATIONING FOR THE SOLDIER BEAM WALL (INDEPENDENT FROM ANY CIVIL STATIONING). SEE SECTION.  
 4. FOR MINIMUM WALL EMBEDMENT SEE ELEVATION.  
 5. SSB = STEEL SOLDIER BEAM  
 6. B/SSB = BOTTOM OF SOLDIER BEAM  
 7. T/C.F. = TOP OF CONCRETE FACING  
 8. B/C.F. = BOTTOM OF CONCRETE FACING

**ROBINSON ENGINEERING, LTD.**  
 CONSULTING REGISTERED PROFESSIONAL ENGINEERS  
 AND PROFESSIONAL LAND SURVEYORS  
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PLOT SCALE =	DRAWN —	REVISIONS —	
PLOT DATE =	CHECKED —	RSF	REVISIONS —

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

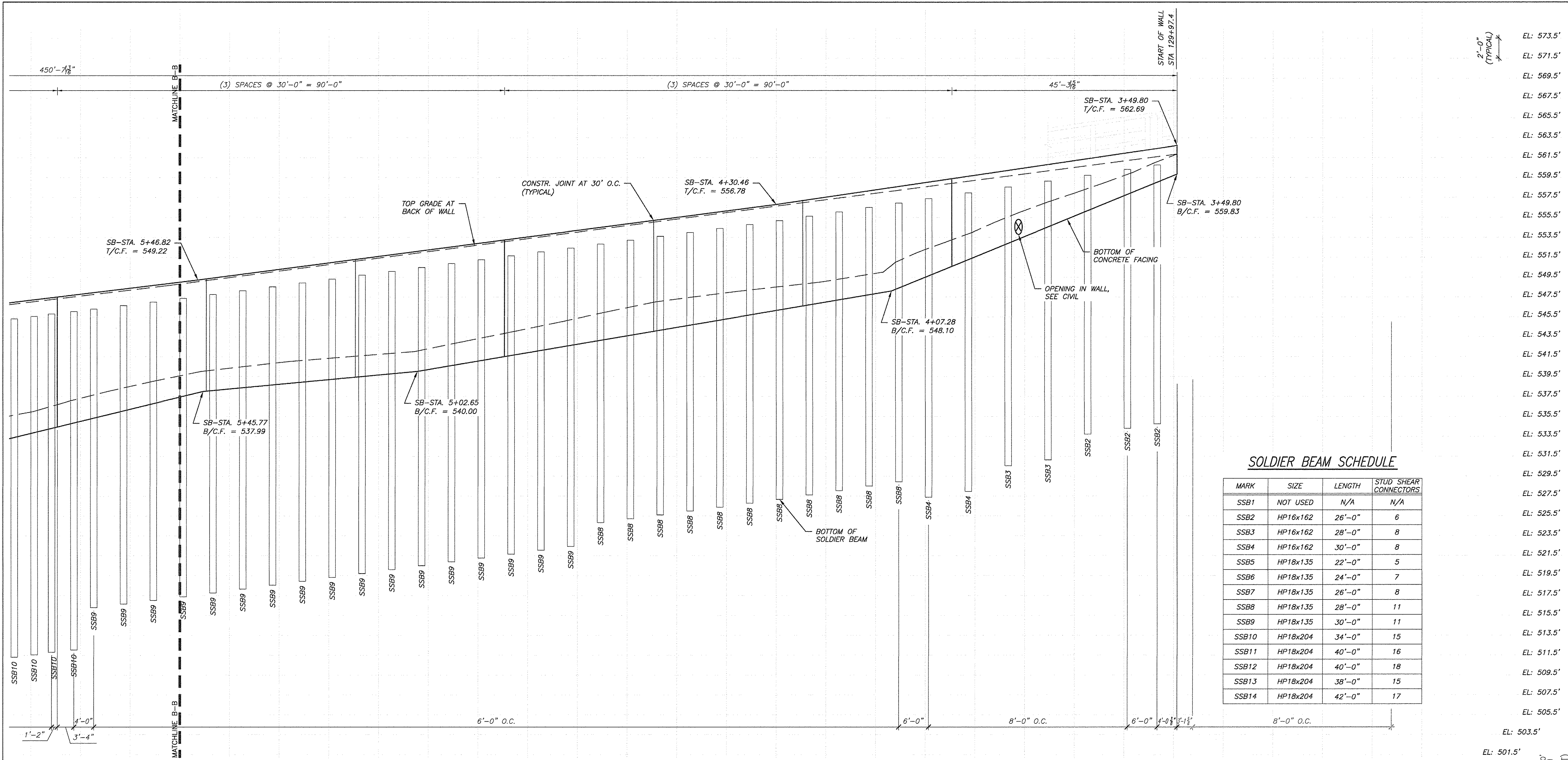
F.A.U. 0393 (MCEVILLY ROAD)  
 MULTI-USE LIONS PARK TO VISTA COURT  
 RETAINING WALL PROFILES  
 SCALE: AS NOTED SHEET NO. 17 OF 32 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0393	10-00056-00-BT	GRUNDY/WILL	32	17
CONTRACT NO. 87631				
FED. ROAD DIST. NO. 3	ILLINOIS	FED. AID PROJECT	TE-00D3 (068)	

**PAUL G. VIRGILIO**  
 LICENSED STRUCTURAL ENGINEER  
 STATE OF ILLINOIS  
 081-004693  
 Signature: [Signature] Date: 08.19.2016  
 Expires 11/30/2016

SCALE: 1" = 10'-0" (HORIZ)  
 0 5' 10' 20'





**SOLDIER BEAM SCHEDULE**

MARK	SIZE	LENGTH	STUD SHEAR CONNECTORS
SSB1	NOT USED	N/A	N/A
SSB2	HP16x162	26'-0"	6
SSB3	HP16x162	28'-0"	8
SSB4	HP16x162	30'-0"	8
SSB5	HP18x135	22'-0"	5
SSB6	HP18x135	24'-0"	7
SSB7	HP18x135	26'-0"	8
SSB8	HP18x135	28'-0"	11
SSB9	HP18x135	30'-0"	11
SSB10	HP18x204	34'-0"	15
SSB11	HP18x204	40'-0"	16
SSB12	HP18x204	40'-0"	18
SSB13	HP18x204	38'-0"	15
SSB14	HP18x204	42'-0"	17

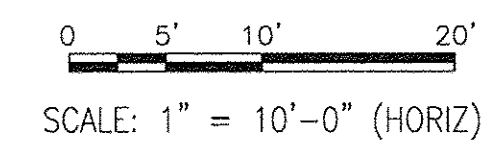
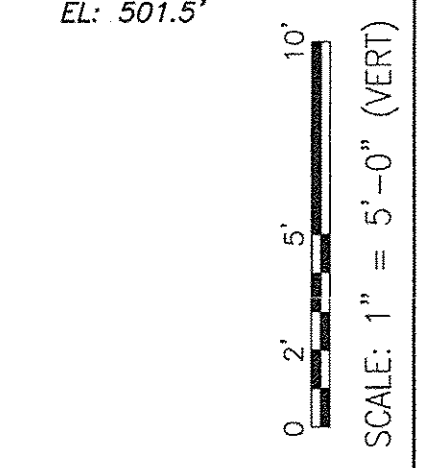
**SITework QUANTITIES**

	QUANTITY (CU. YD.)
GRANULAR BACKFILL FOR STRUCTURES	1125
SITE FILL	-
STRUCTURE EXCAVATION	115

**1 WALL #3 (CONTINUED)**

SCALE: VERTICAL: 1" = 5'-0" HORIZONTAL: 1" = 10'-0"  
 NOTES: SEE NOTES ON SHEET 20

- EL: 573.5'
- EL: 571.5'
- EL: 569.5'
- EL: 567.5'
- EL: 565.5'
- EL: 563.5'
- EL: 561.5'
- EL: 559.5'
- EL: 557.5'
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- EL: 515.5'
- EL: 513.5'
- EL: 511.5'
- EL: 509.5'
- EL: 507.5'
- EL: 505.5'
- EL: 503.5'
- EL: 501.5'



**PAUL G. VIRGLIO**  
 081-004693  
 LICENSED  
 STRUCTURAL  
 ENGINEER  
 STATE OF ILLINOIS  
 Signature: *Paul G. Virglio* Date: 08.19.2016  
 Expires: 11/30/2016

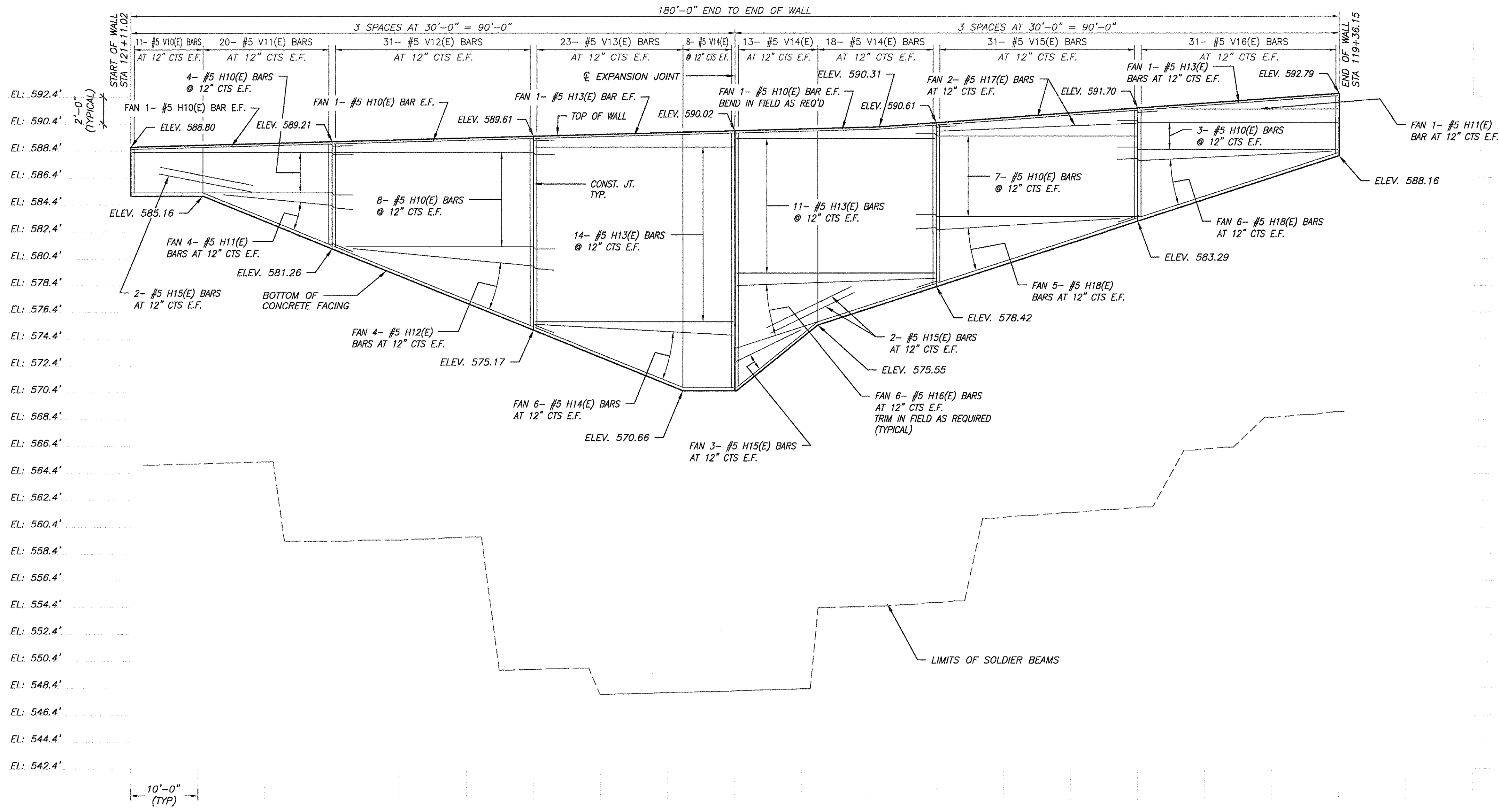
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 CONSULTING REGISTERED PROFESSIONAL ENGINEERS  
 AND PROFESSIONAL LAND SURVEYORS  
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PLOT SCALE =	DRAWN --	REVISED --
PLOT DATE = 08-19-2016	CHECKED -- RSF	REVISED --

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

F.A.U. 0393 (MCEVILLY ROAD)		F.A.U. RTE.	TOTAL SHEETS	SHEET NO.
MULTI-USE LIONS PARK TO VISTA COURT		SECTION	32	18
RETAINING WALL PROFILES		0393	10-00056-00-BT	GRUNDY/WILL
SCALE: AS NOTED	SHEET NO. 18 OF 32 SHEETS	STA.	TO STA.	CONTRACT NO. 87631
		FED. ROAD DIST. NO. 3	ILLINOIS	FED. AID PROJECT TE-00D3 (068)





### WALL #1 BILL OF MATERIALS

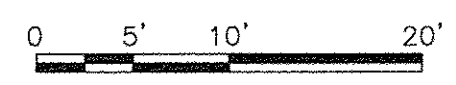
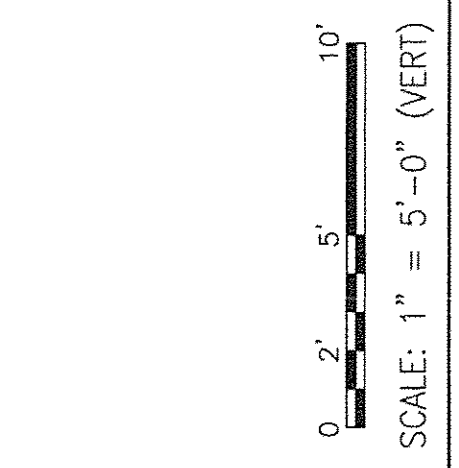
BAR	QTY.	SIZE	LENGTH	SHAPE
H10(E)	50	#5	33'-0"	
H11(E)	10	#5	22'-8" TO 24'-1"	
H12(E)	8	#5	33'-1" TO 35'-4"	
H13(E)	54	#5	29'-7"	
H14(E)	12	#5	29'-8" TO 31'-3"	
H15(E)	14	#5	13'-6" TO 15'-7"	
H16(E)	12	#5	29'-5" TO 31'-2"	
H17(E)	4	#5	29'-8" TO 32'-11"	
H18(E)	22	#5	34'-6" TO 32'-8"	
V10(E)	22	#5	3'-5"	
V11(E)	40	#5	3'-6" TO 7'-6"	
V12(E)	62	#5	7'-7" TO 14'-0"	
V13(E)	46	#5	14'-1" TO 18'-10"	
V14(E)	16	#5	19'-0"	
V15(E)	26	#5	14'-4" TO 19'-0"	
V16(E)	36	#5	11'-1" TO 14'-2"	
V17(E)	62	#5	8'-1" TO 11'-10"	
V18(E)	62	#5	4'-3" TO 8'-0"	
REINFORCEMENT BARS, EPOXY COATED			POUNDS	10,500
CONCRETE STRUCTURES			CU. YD.	75

### 1 WALL #1 ELEVATION (BAR REINFORCEMENT)

- SCALE: VERTICAL: 1" = 5'-0" HORIZONTAL: 1" = 10'-0"
- NOTES:
1. REINFORCEMENT BARS DESIGNATED (E) SHALL BE EPOXY COATED
  2. WALL STATIONS, OFFSETS AND DIMENSIONS ARE MEASURED FROM FRONT FACE OF WALL.
  3. FOR BAR LIST, SEE BILL OF MATERIALS TABLE ON THIS SHEET.
  4. FOR TYPICAL DETAILS, SEE SHEET(S) 13 & 15.
  5. FOR SOLDIER BEAM SCHEDULE, SEE SHEET 16
  6. FOR TYPICAL SECTION, SEE SHEET 14.

LEGEND:  
F.F. = FRONT FACE OF WALL  
E.F. = EACH FACE OF WALL

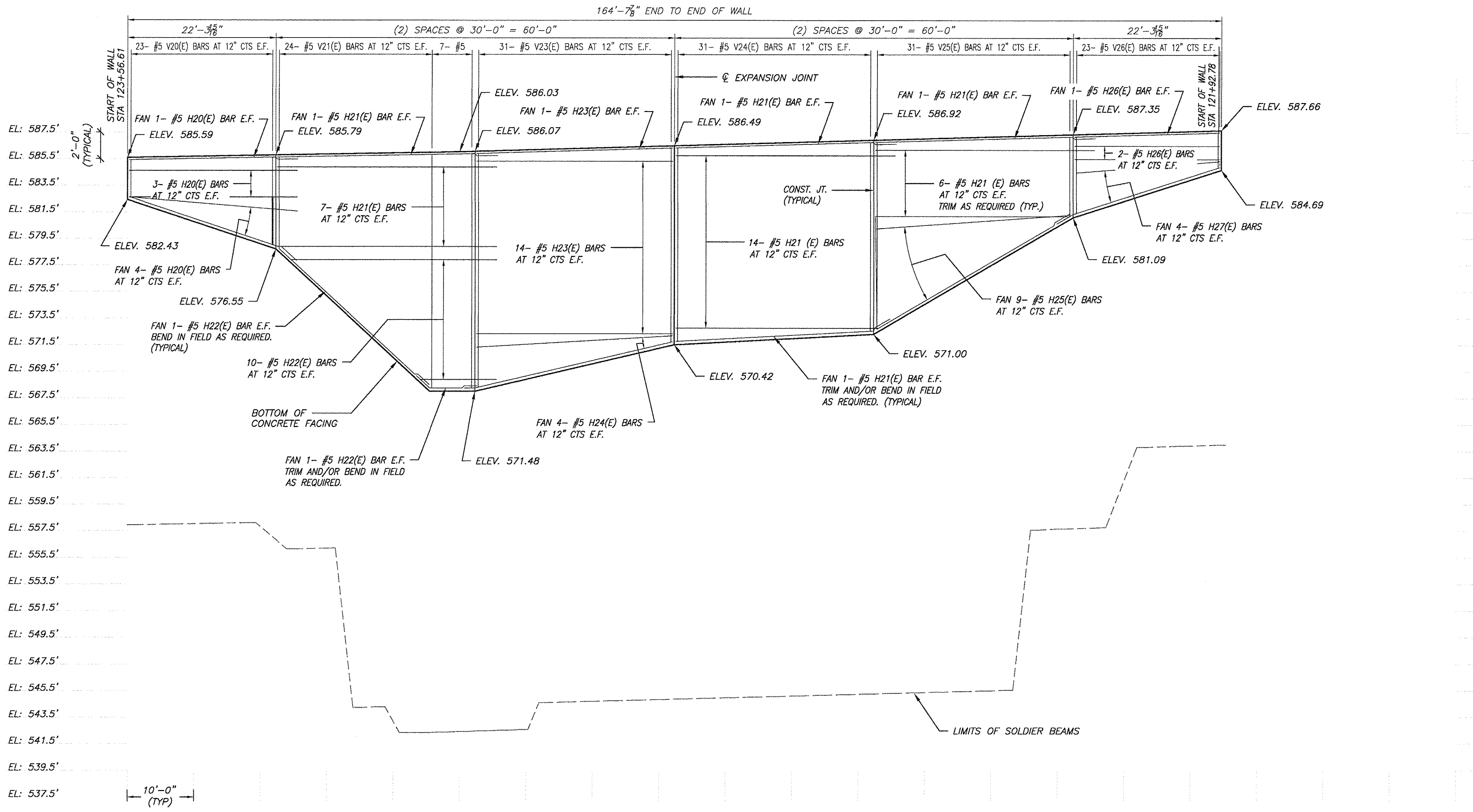
MINIMUM BAR LAP:  
#5 BARS = 2'-11"



Signature: *Paul G. Virgilio* Date: 08.19.2016  
Expires 11/30/2016

FILE NAME <b>ROBINSON ENGINEERING, LTD.</b> CONSULTING REGISTERED PROFESSIONAL ENGINEERS AND PROFESSIONAL LAND SURVEYORS 17000 SOUTH PARK AVENUE SOUTH HOLLAND, ILLINOIS 60473 (708) 331-0700 © COPYRIGHT 2015 ILLINOIS DESIGN FIRM REGISTRATION NO. 194001126	USER NAME =	DESIGNED — RSF	REVISED —	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	F.A.U. 0393 (MCEVILLY ROAD) MULTI-USE LIONS PARK TO VISTA COURT RETAINING WALL PROFILES			F.A.U. RTE. 0393	SECTION 10-00056-00-BT	COUNTY GRUNDY/WILL	TOTAL SHEETS 32	SHEET NO. 19	
	PLOT SCALE =	DRAWN —	REVISED —		SCALE: AS NOTED	SHEET NO. 19 OF 32 SHEETS	STA. TO STA.	FED. ROAD DIST. NO. 3	ILLINOIS	FED. AID PROJECT TE-00D3 (068)			
	PLOT DATE = 08-19-2016	CHECKED — RSF	REVISED —										





**WALL #2  
BILL OF MATERIALS**

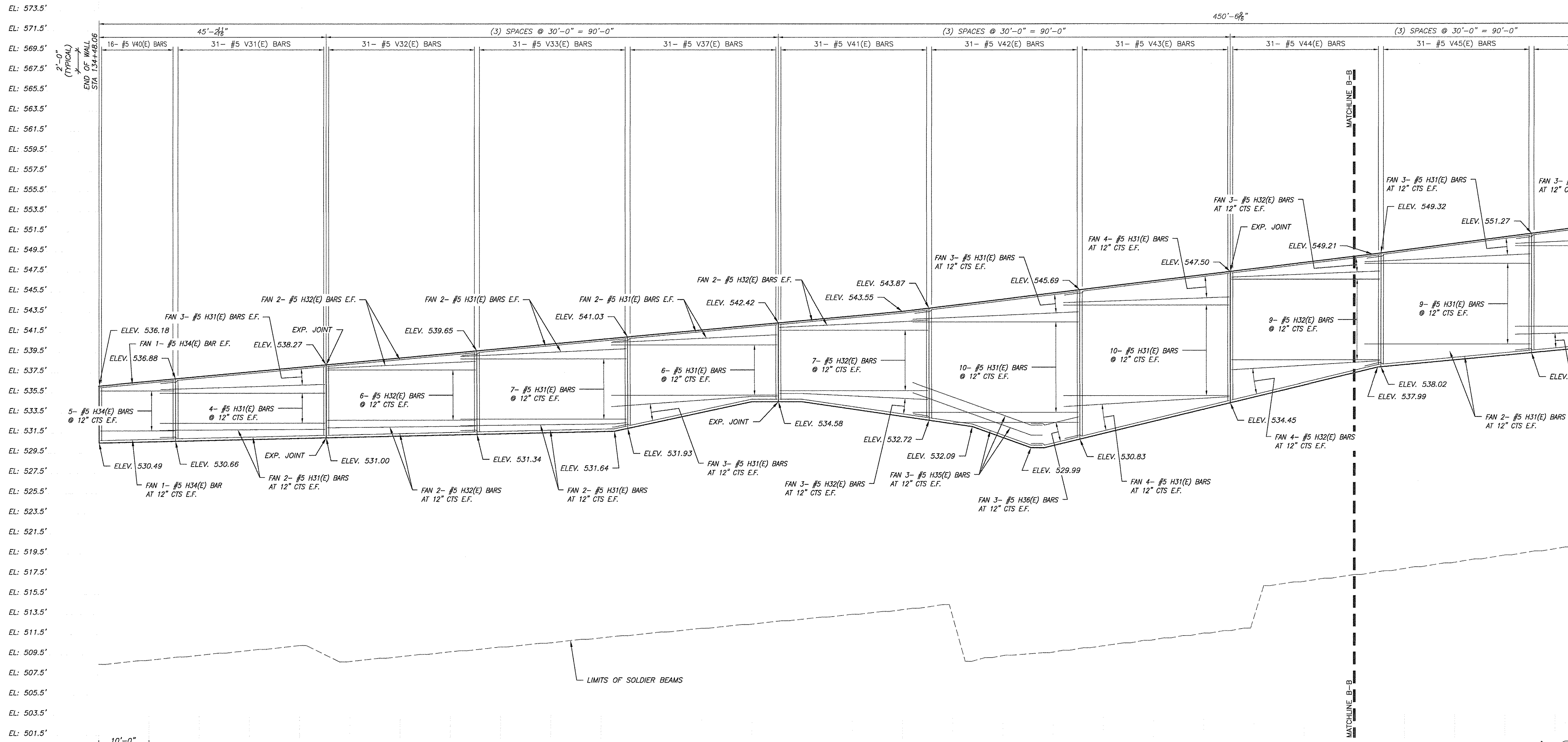
BAR	QTY.	SIZE	LENGTH	SHAPE
H20(E)	16	#5	25'-6" to 27'-0"	
H21(E)	62	#5	33'-0" to 33'-3"	
H22(E)	24	#5	10'-0" to 31'-0"	
H23(E)	30	#5	29'-6"	
H24(E)	8	#5	29'-7" to 32'-2"	
H25(E)	18	#5	29'-4" to 33'-11"	
H26(E)	6	#5	21'-10"	
H27(E)	8	#5	21'-8" to 26'-0"	
V20(E)	46	#5	2'-9" to 6'-8"	
V21(E)	48	#5	6'-9" to 17'-7"	
V22(E)	14	#5	17'-8"	
V23(E)	62	#5	14'-7" to 17'-8"	
V24(E)	62	#5	14'-3" to 14'-7"	
V25(E)	62	#5	5'-11" to 14'-2"	
V26(E)	46	#5	2'-7" to 5'-10"	
REINFORCEMENT BARS, EPOXY COATED			POUNDS	10,000
CONCRETE STRUCTURES			CU. YD.	75

**WALL #2 ELEVATION (BAR REINFORCEMENT)**

- SCALE: VERTICAL: 1" = 5'-0" HORIZONTAL: 1" = 10'-0"
- NOTES:
1. REINFORCEMENT BARS DESIGNATED (E) SHALL BE EPOXY COATED
  2. WALL STATIONS, OFFSETS AND DIMENSIONS ARE MEASURED FROM FRONT FACE OF WALL
  3. FOR BAR LIST, SEE BILL OF MATERIALS TABLE ON THIS SHEET.
  4. FOR TYPICAL DETAILS, SEE SHEET(S) 13 & 15.
  5. FOR SOLDIER BEAM SCHEDULE, SEE SHEET 17
  6. FOR TYPICAL SECTION, SEE SHEET 14

Signature: *Paul G. Virgilio* Date: 08.19.2016  
 Expire: 11/30/2016

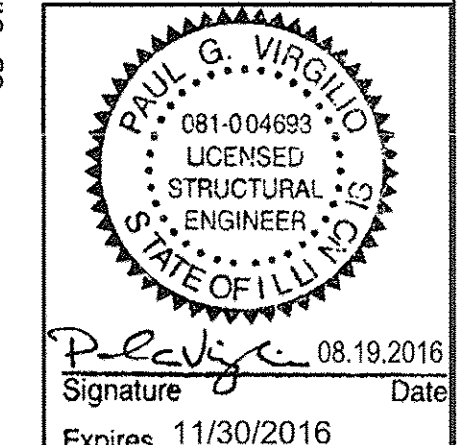




WALL STATIONING	SB-STATIONING
SB-STATION 8+00	SB-STATION 0+00
SB-STATION 7+95	SB-STATION 0+05
SB-STATION 7+90	SB-STATION 0+10
SB-STATION 7+85	SB-STATION 0+15
SB-STATION 7+80	SB-STATION 0+20
SB-STATION 7+75	SB-STATION 0+25
SB-STATION 7+70	SB-STATION 0+30
SB-STATION 7+65	SB-STATION 0+35
SB-STATION 7+60	SB-STATION 0+40
SB-STATION 7+55	SB-STATION 0+45
SB-STATION 7+50	SB-STATION 0+50
SB-STATION 7+45	SB-STATION 0+55
SB-STATION 7+40	SB-STATION 0+60
SB-STATION 7+35	SB-STATION 0+65
SB-STATION 7+30	SB-STATION 0+70
SB-STATION 7+25	SB-STATION 0+75
SB-STATION 7+20	SB-STATION 0+80
SB-STATION 7+15	SB-STATION 0+85
SB-STATION 7+10	SB-STATION 0+90
SB-STATION 7+05	SB-STATION 0+95
SB-STATION 7+00	SB-STATION 1+00
SB-STATION 6+95	SB-STATION 1+05
SB-STATION 6+90	SB-STATION 1+10
SB-STATION 6+85	SB-STATION 1+15
SB-STATION 6+80	SB-STATION 1+20
SB-STATION 6+75	SB-STATION 1+25
SB-STATION 6+70	SB-STATION 1+30
SB-STATION 6+65	SB-STATION 1+35
SB-STATION 6+60	SB-STATION 1+40
SB-STATION 6+55	SB-STATION 1+45
SB-STATION 6+50	SB-STATION 1+50
SB-STATION 6+45	SB-STATION 1+55
SB-STATION 6+40	SB-STATION 1+60
SB-STATION 6+35	SB-STATION 1+65
SB-STATION 6+30	SB-STATION 1+70
SB-STATION 6+25	SB-STATION 1+75
SB-STATION 6+20	SB-STATION 1+80
SB-STATION 6+15	SB-STATION 1+85
SB-STATION 6+10	SB-STATION 1+90
SB-STATION 6+05	SB-STATION 1+95
SB-STATION 6+00	SB-STATION 2+00
SB-STATION 5+95	SB-STATION 2+05
SB-STATION 5+90	SB-STATION 2+10
SB-STATION 5+85	SB-STATION 2+15
SB-STATION 5+80	SB-STATION 2+20
SB-STATION 5+75	SB-STATION 2+25
SB-STATION 5+70	SB-STATION 2+30
SB-STATION 5+65	SB-STATION 2+35
SB-STATION 5+60	SB-STATION 2+40
SB-STATION 5+55	SB-STATION 2+45
SB-STATION 5+50	SB-STATION 2+50
SB-STATION 5+45	SB-STATION 2+55
SB-STATION 5+40	SB-STATION 2+60
SB-STATION 5+35	SB-STATION 2+65
SB-STATION 5+30	SB-STATION 2+70
SB-STATION 5+25	SB-STATION 2+75
SB-STATION 5+20	SB-STATION 2+80

**WALL #3**  
 SCALE: VERTICAL: 1" = 5'-0" HORIZONTAL: 1" = 10'-0"

- NOTES:**
1. REINFORCEMENT BARS DESIGNATED (E) SHALL BE EPOXY COATED
  2. WALL STATIONS, OFFSETS AND DIMENSIONS ARE MEASURED FROM FRONT FACE OF WALL.
  3. FOR BAR LIST, SEE BILL OF MATERIALS TABLE ON THIS SHEET.
  4. FOR TYPICAL DETAILS, SEE SHEET(S) 13 & 15.
  5. FOR SOLDIER BEAM SCHEDULE, SEE SHEET 20 OR 21
  6. FOR TYPICAL SECTION, SEE SHEET 15



Signature: *Paul G. Virginia* Date: 08.19.2016  
 Expires: 11/30/2016

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 CONSULTING REGISTERED PROFESSIONAL ENGINEERS  
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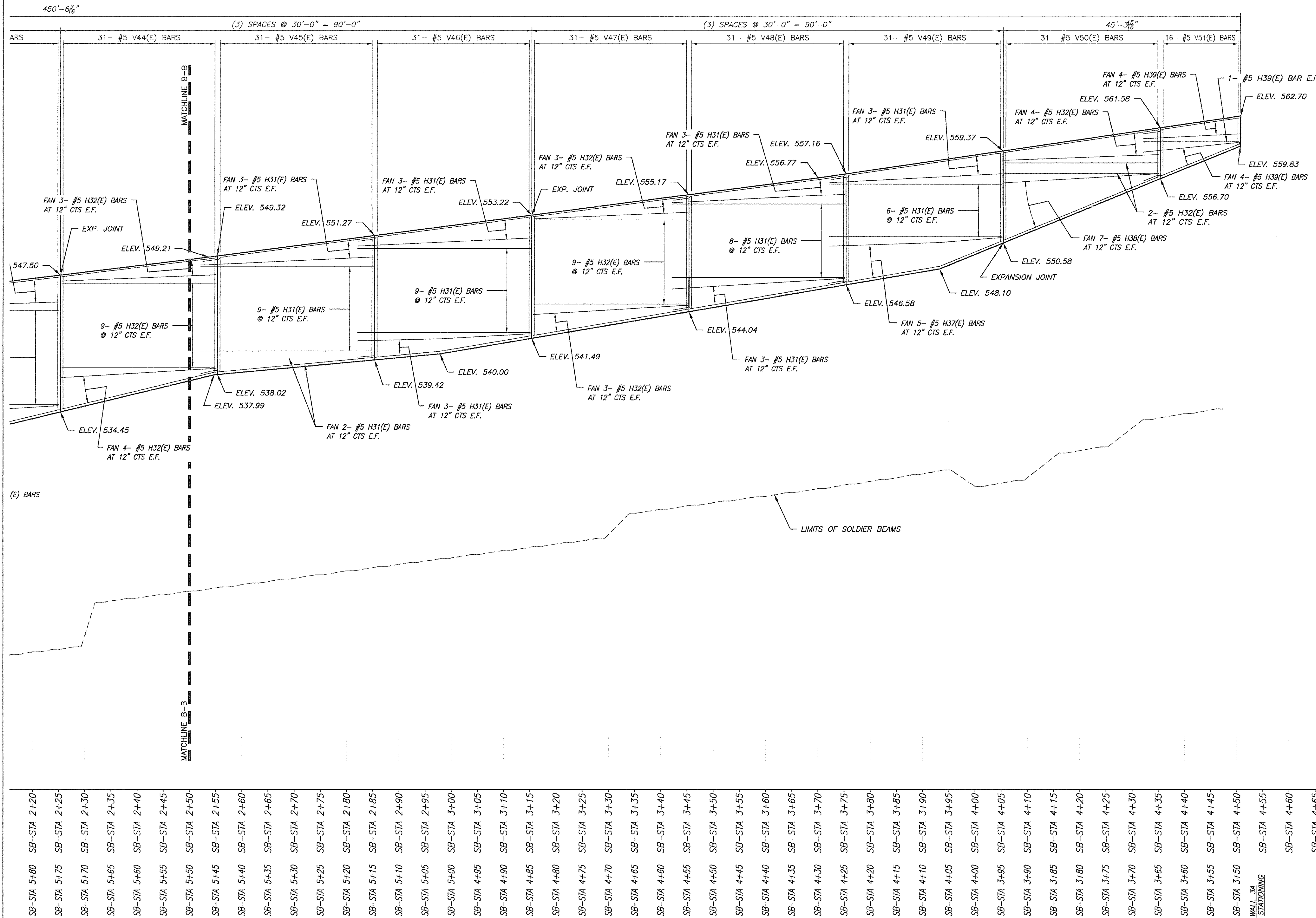
USER NAME =	DESIGNED — RSF	REVISED —
CHECKED — RSF	CHECKED — RSF	REVISED —
PLOT SCALE =	DRAWN —	REVISED —
PLOT DATE = 08-19-2016	CHECKED — RSF	REVISED —

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

F.A.U. 0393 (MCEVILLY ROAD)  
 MULTI-USE LIONS PARK TO VISTA COURT  
 RETAINING WALL PROFILES  
 SCALE: AS NOTED SHEET NO. 21 OF 32 SHEETS STA. TO STA.

F.A.U. R.T.E. 0393	SECTION 10-00056-00-BT	COUNTY GRUNDY/WILL	TOTAL SHEETS 32	SHEET NO. 21
FED. ROAD DIST. NO. 3		ILLINOIS	FED. AID PROJECT TE-00D3 (068)	





**WALL #3  
BILL OF MATERIALS**

BAR	QTY.	SIZE	LENGTH	SHAPE
H30(E)	NOT USED	N/A	N/A	N/A
H31(E)	260	#5	33'-0" to 33'-3"	
H32(E)	118	#5	29'-6" to 30'-0"	
H33(E)	NOT USED	N/A	N/A	N/A
H34(E)	14	#5	14'-9"	
H35(E)	6	#5	26'-9" to 27'-3"	
H36(E)	6	#5	9'-10"	
H37(E)	10	#5	33'-0" to 34'-7"	
H38(E)	14	#5	29'-7" to 31'-10"	
H39(E)	18	#5	18'-4" to 19'-9"	
V30(E)	NOT USED	N/A	N/A	N/A
V31(E)	62	#5	6'-2" to 7'-4"	
V32(E)	62	#5	7'-4" to 8'-6"	
V33(E)	62	#5	8'-6" to 9'-6"	
V34(E)	NOT USED	N/A	N/A	N/A
V35(E)	NOT USED	N/A	N/A	N/A
V36(E)	NOT USED	N/A	N/A	N/A
V37(E)	62	#5	7'-10" to 9'-4"	
V38(E)	NOT USED	N/A	N/A	N/A
V39(E)	NOT USED	N/A	N/A	N/A
V40(E)	32	#5	5'-9" to 6'-3"	
V41(E)	62	#5	7'-10" to 11'-2"	
V42(E)	62	#5	11'-3" to 15'-3"	
V43(E)	62	#5	13'-1" to 14'-10"	
V44(E)	62	#5	11'-4" to 13'-1"	
V45(E)	62	#5	11'-4" to 11'-11"	
V46(E)	62	#5	11'-9" to 12'-1"	
V47(E)	62	#5	11'-2" to 11'-9"	
V48(E)	62	#5	10'-7" to 11'-2"	
V49(E)	62	#5	8'-10" to 10'-7"	
V50(E)	62	#5	4'-11" to 8'-10"	
V51(E)	32	#5	2'-11" to 4'-11"	
REINFORCEMENT BARS, EPOXY COATED			POUNDS	25,000
CONCRETE STRUCTURES			CU. YD.	170

EL: 573.5'  
EL: 571.5'  
EL: 569.5'  
EL: 567.5'  
EL: 565.5'  
EL: 563.5'  
EL: 561.5'  
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EL: 513.5'  
EL: 511.5'  
EL: 509.5'  
EL: 507.5'  
EL: 505.5'  
EL: 503.5'  
EL: 501.5'

**WALL #3 (CONTINUED)**  
SCALE: VERTICAL: 1" = 5'-0" HORIZONTAL: 1" = 10'-0"  
NOTES:  
SEE NOTES ON SHEET 26

0 5' 10' 20'  
SCALE: 1" = 10'-0" (HORIZ)  
Signature: *Paul G. Virgilio* Date: 08.19.2016  
Expires 11/30/2016

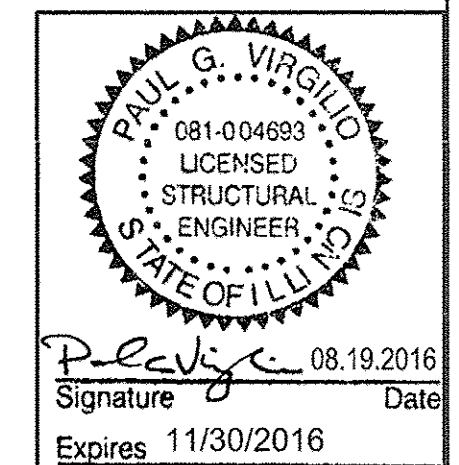
ROBINSON ENGINEERING, LTD.  
CONSULTING REGISTERED PROFESSIONAL ENGINEERS  
AND PROFESSIONAL LAND SURVEYORS  
17000 SOUTH PARK AVENUE SOUTH HOLLAND, ILLINOIS 60478  
(708) 531-6700 © COPYRIGHT 2015 ILLINOIS DESIGN FIRM REGISTRATION NO. 184001128

USER NAME =	DESIGNED = RSF	REVISED =
CHECKED = RSF	REVISIONS =	
PLOT SCALE =	DRAWN =	REVISED =
PLOT DATE = 08-19-2016	CHECKED = RSF	REVISED =

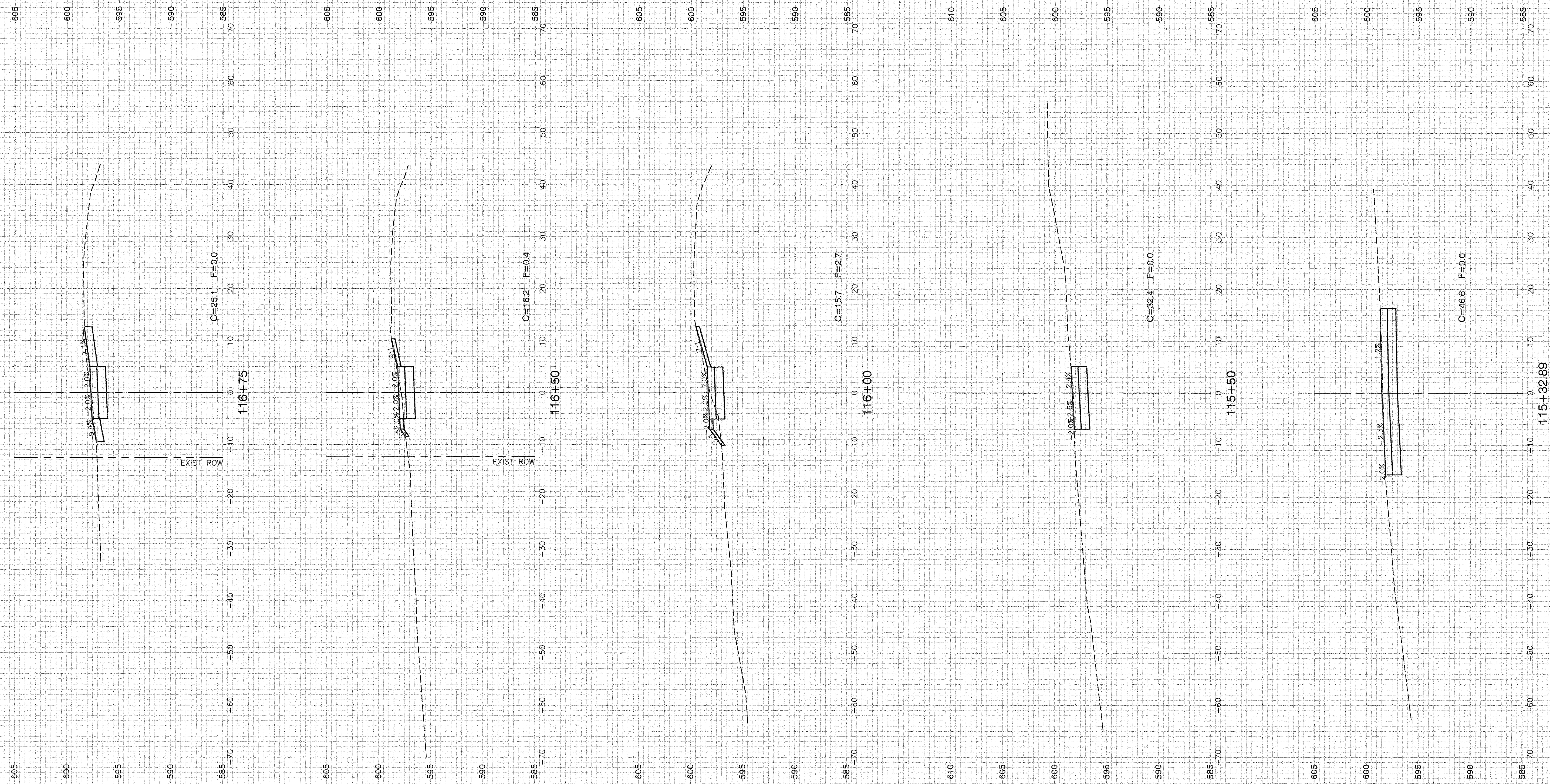
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

F.A.U. 0393 (MCEVILLY ROAD)  
MULTI-USE LIONS PARK TO VISTA COURT  
RETAINING WALL PROFILES  
SCALE: AS NOTED SHEET NO. 22 OF 32 SHEETS STA. TO STA.

F.A.U. RTE. 0393	SECTION 10-00056-00-BT	COUNTY GRUNDY/WILL	TOTAL SHEETS 32	SHEET NO. 22
FED. ROAD DIST. NO. 3		ILLINOIS	FED. AID PROJECT TE-00D3 (068)	







FILE NAME = 11269-XSCT-01 - X01

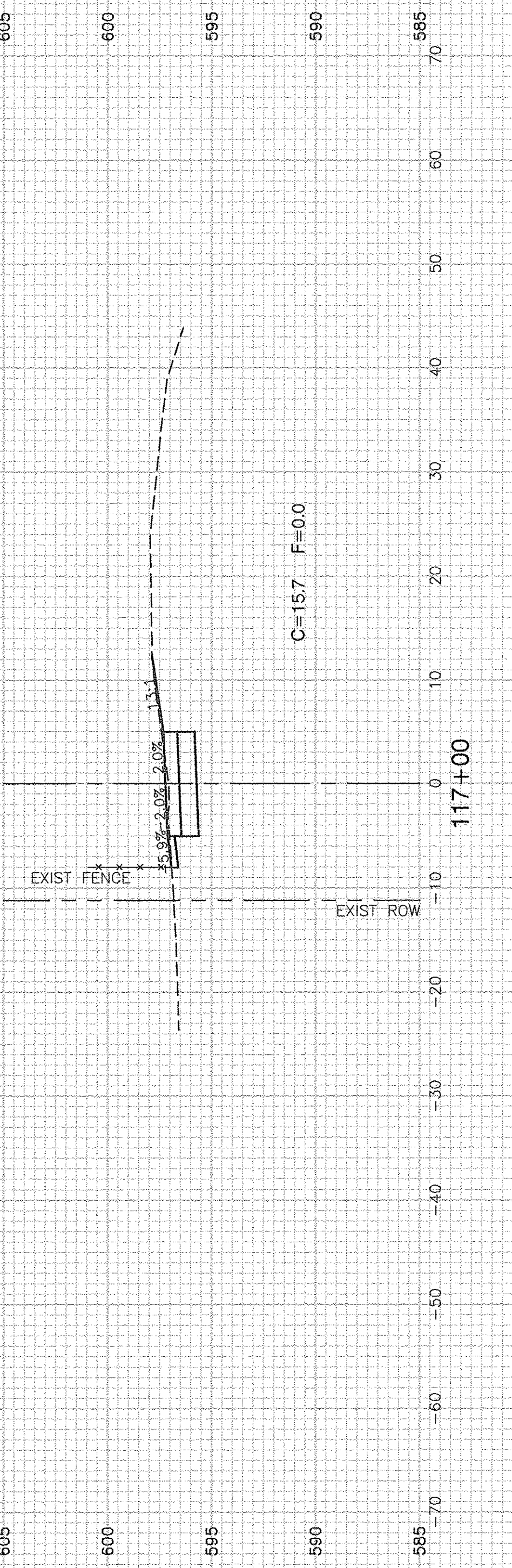
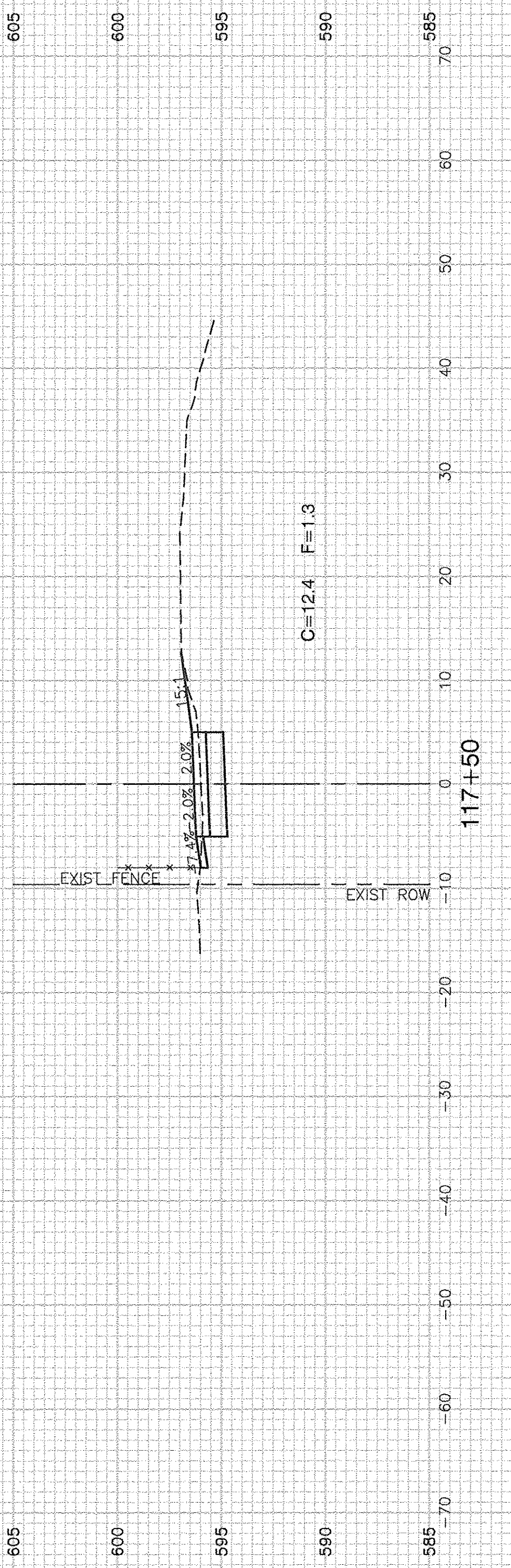
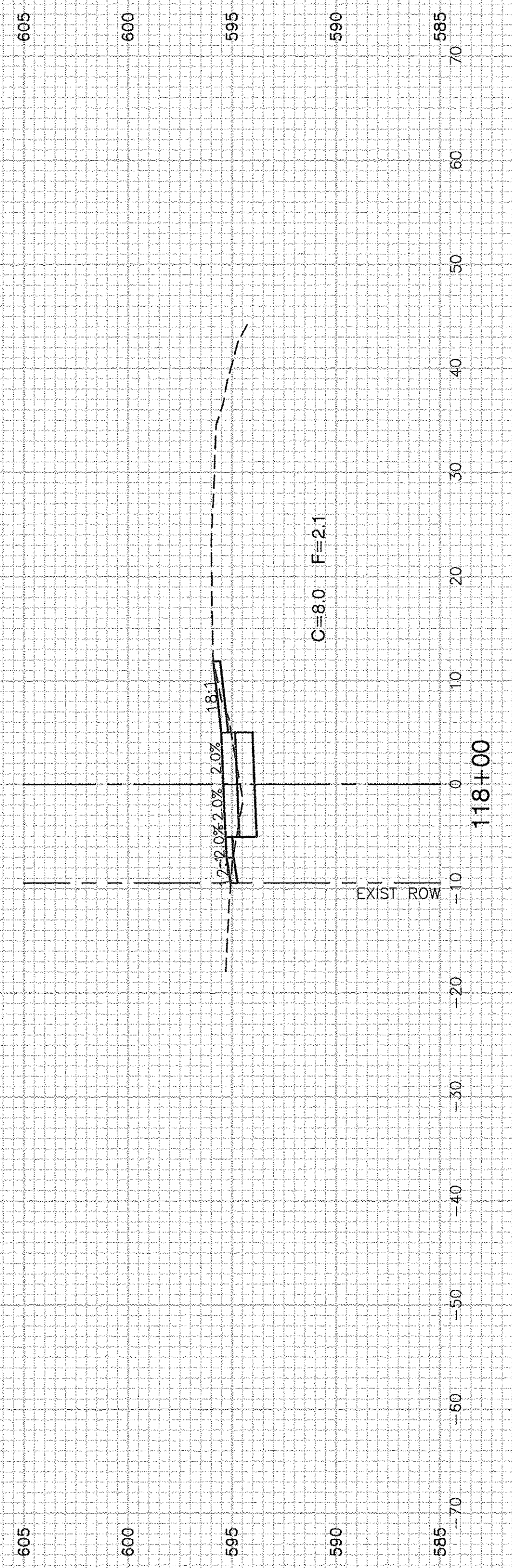
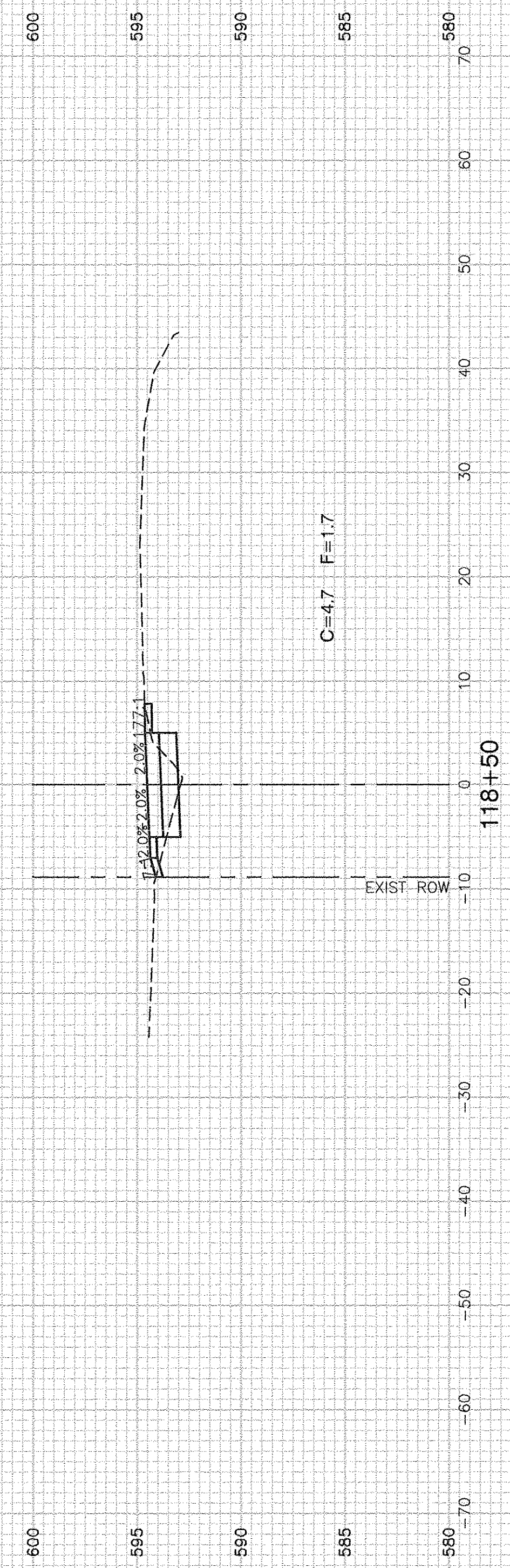
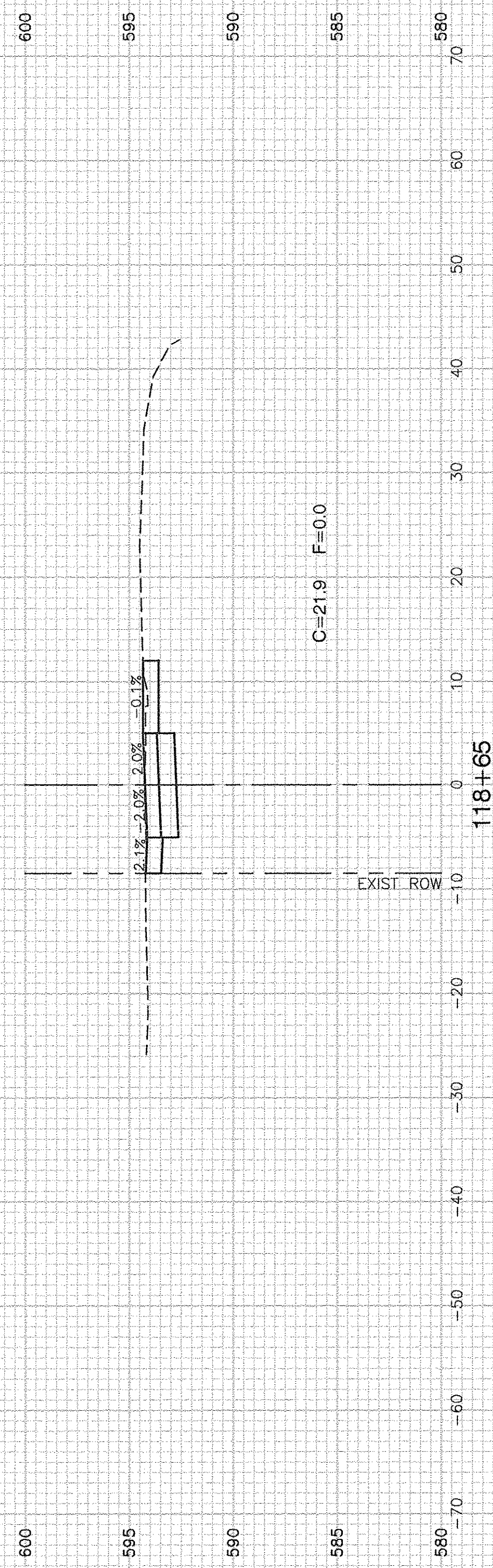
USER NAME =	DESIGNED -- KJB	REVISED --
	CHECKED -- HLG	REVISED --
PLOT SCALE =	DRAWN -- ACAD	REVISED --
PLOT DATE = 4-19-16	CHECKED -- ACAD	REVISED --

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

F.A.U. 0393 (MCEVILLY ROAD)		F.A.U. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
MULTI-USE PATH - LIONS PARK TO VISTA COURT		0393	10-00056-00-BT	GRUNDY/WILL	32	23
CROSS SECTIONS		CONTRACT NO. 87631				
SCALE: 1"=50'	SHEET NO. 23 OF 32 SHEETS	STA.	TO STA.	FED. ROAD DIST. NO. 3	ILLINOIS	FED. AID PROJECT TE-00D3 (093)

2011 12/15/11 11:00 AM 11/15/11 11:00 AM 11/15/11 11:00 AM





FILE NAME = 11283-XSCT-01 - X(2)

USER NAME =	DESIGNED -- KJB	REVISED --
	CHECKED -- HLG	REVISED --
PLOT SCALE =	DRAWN -- ACAD	REVISED --
PLOT DATE = 4-19-16	CHECKED -- ACAD	REVISED --

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

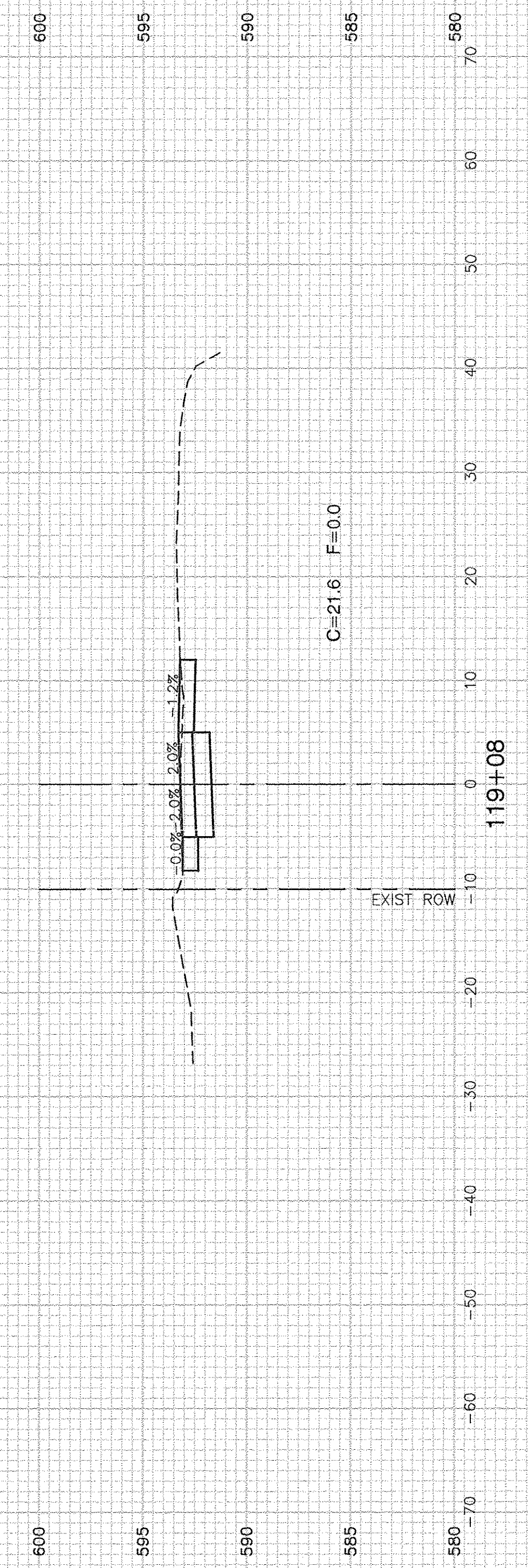
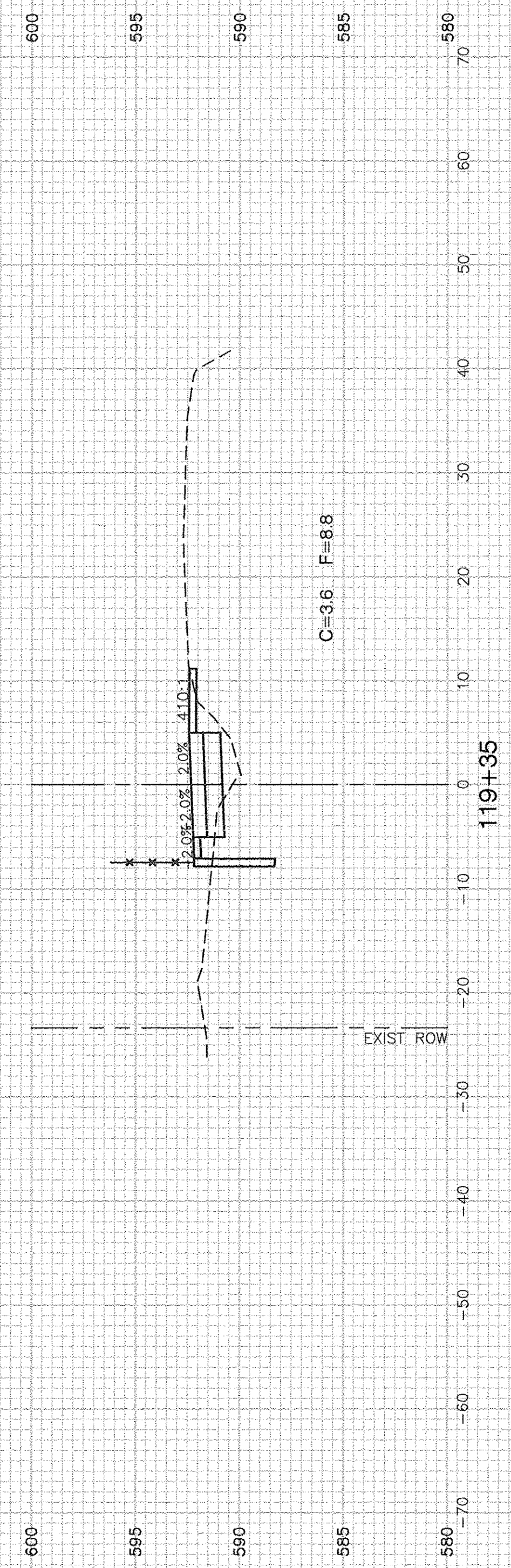
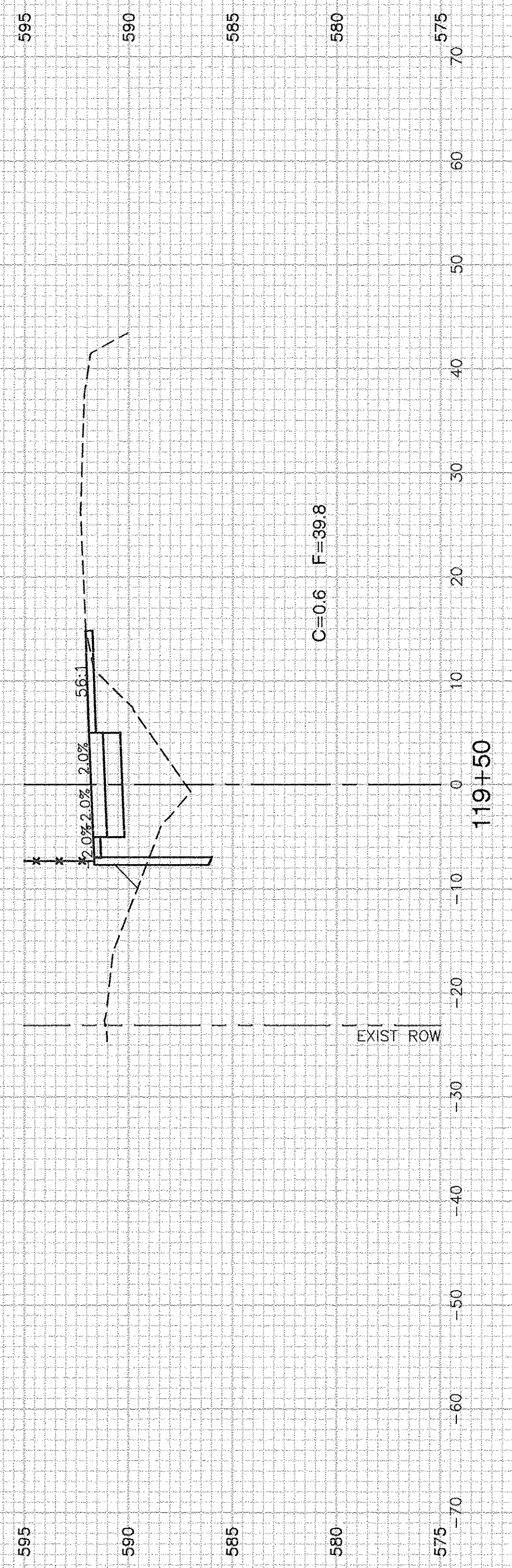
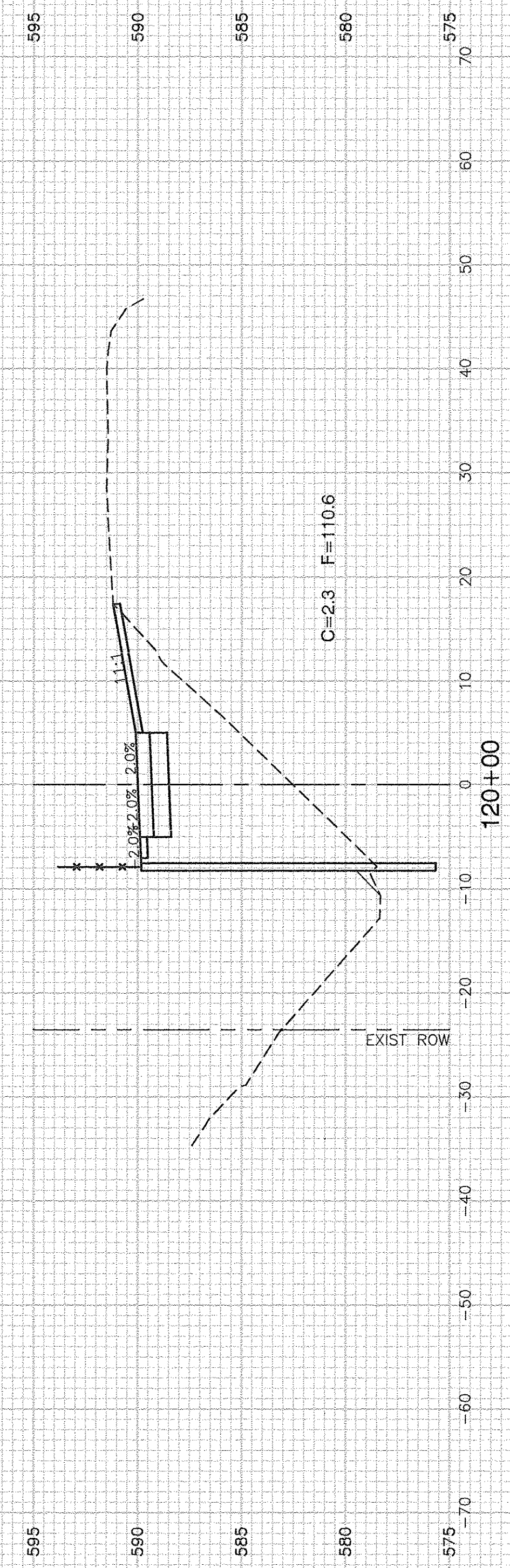
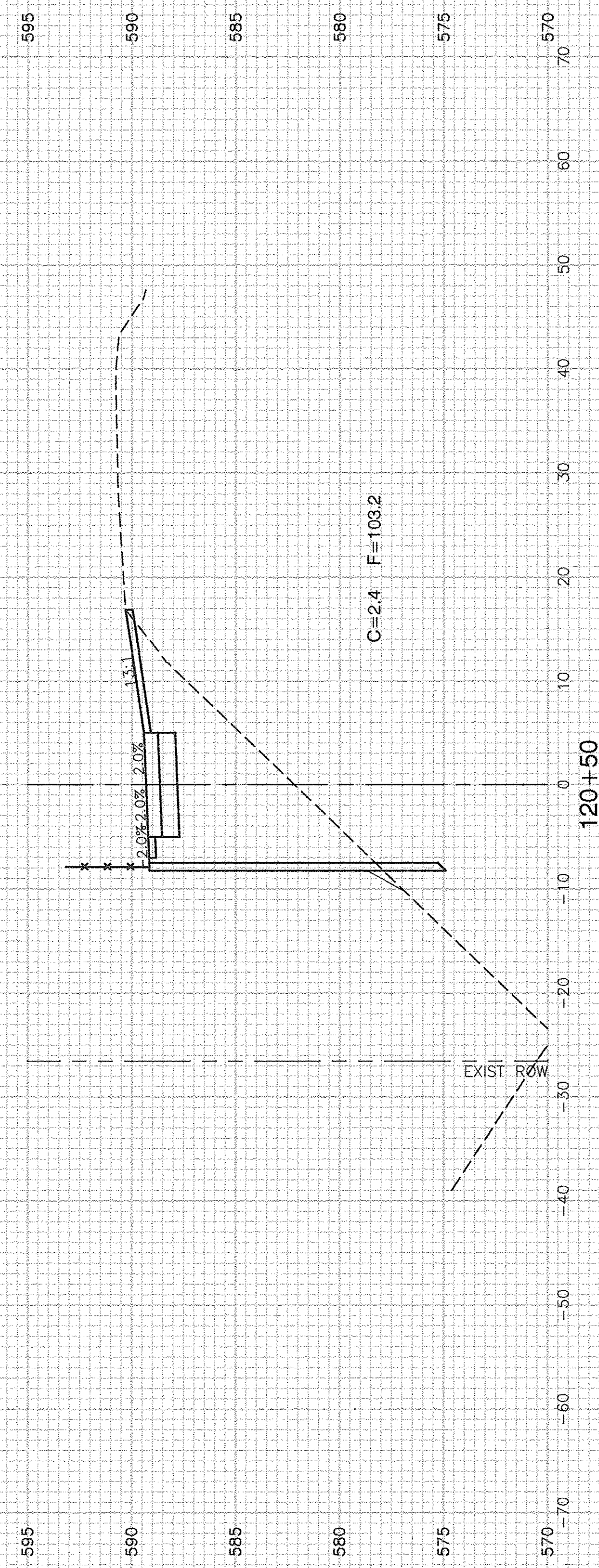
F.A.U. 0393 (MCEVILLY ROAD)  
MULTI-USE PATH - LIONS PARK TO VISTA COURT  
CROSS SECTIONS

SCALE: 1"=50'      SHEET NO. 24 OF 32 SHEETS      STA.      TO STA.

F.A.U. RTE. 0393	SECTION 10-00056-00-BT	COUNTY GRUNDY/WILL	TOTAL SHEETS 32	SHEET NO. 24
FED. ROAD DIST. NO. 3 ILLINOIS			FED. AID PROJECT TE-00D3 (093)	

ASD: 4/19/16 BY: [unreadable] FOR: [unreadable]  
REVISIONS: [unreadable]





FILE NAME = 11283-XSCT-01 - X(3)

USER NAME =	DESIGNED — KJB	REVISED —
CHECKED — HLG		REVISED —
PLOT SCALE =	DRAWN — ACAD	REVISED —
PLOT DATE = 4-19-16	CHECKED — ACAD	REVISED —

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

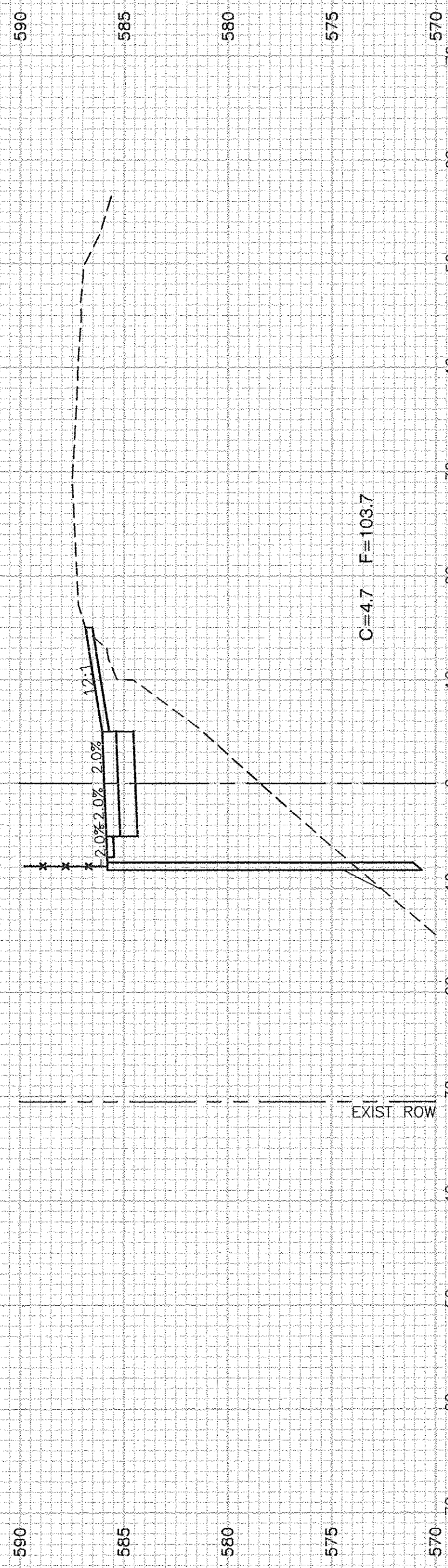
F.A.U. 0393 (MCEVILLY ROAD)  
MULTI-USE PATH - LIONS PARK TO VISTA COURT  
CROSS SECTIONS

SCALE: 1"=50'      SHEET NO. 25 OF 32 SHEETS      STA.      TO STA.

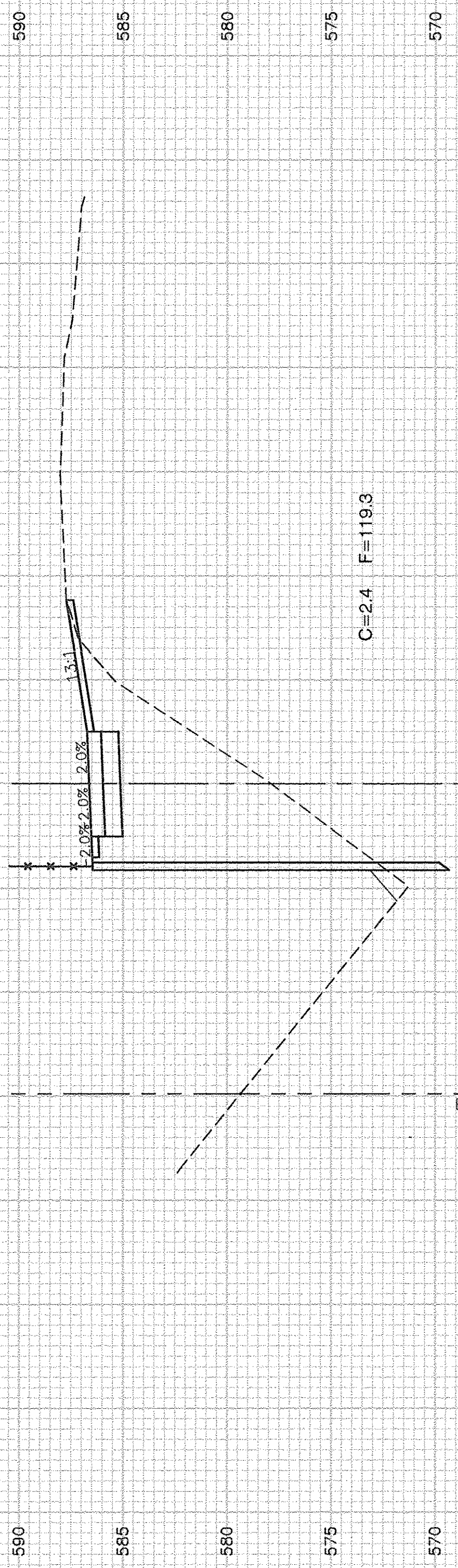
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FED. ROAD DIST. NO. 3 ILLINOIS			FED. AID PROJECT TE-00D3 (093)	

CONTRACT NO. 87631

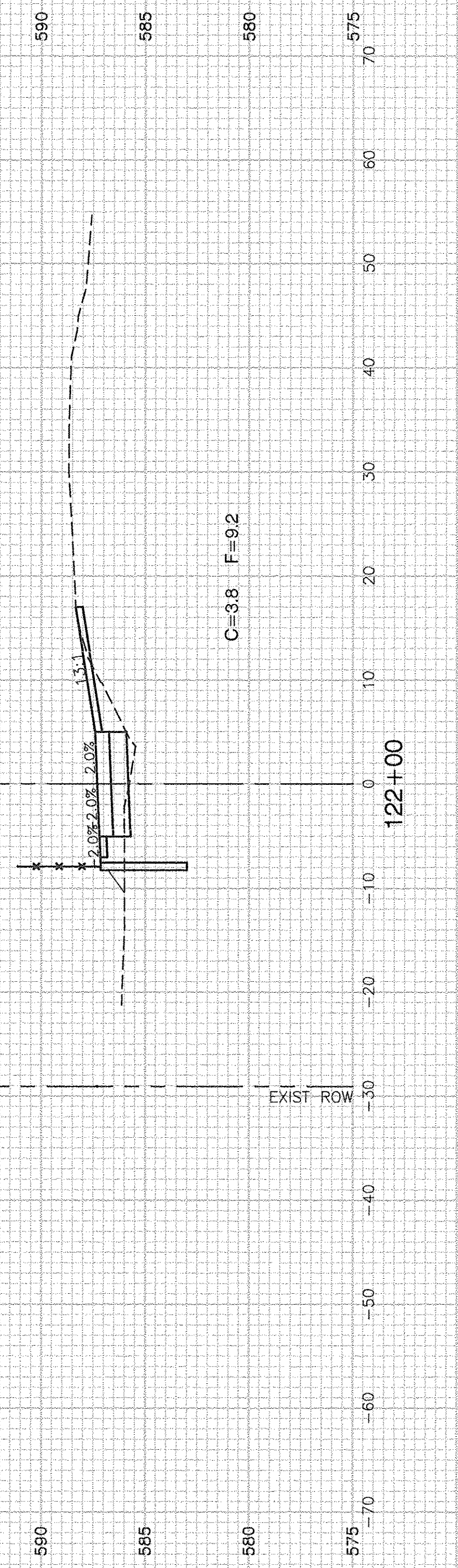




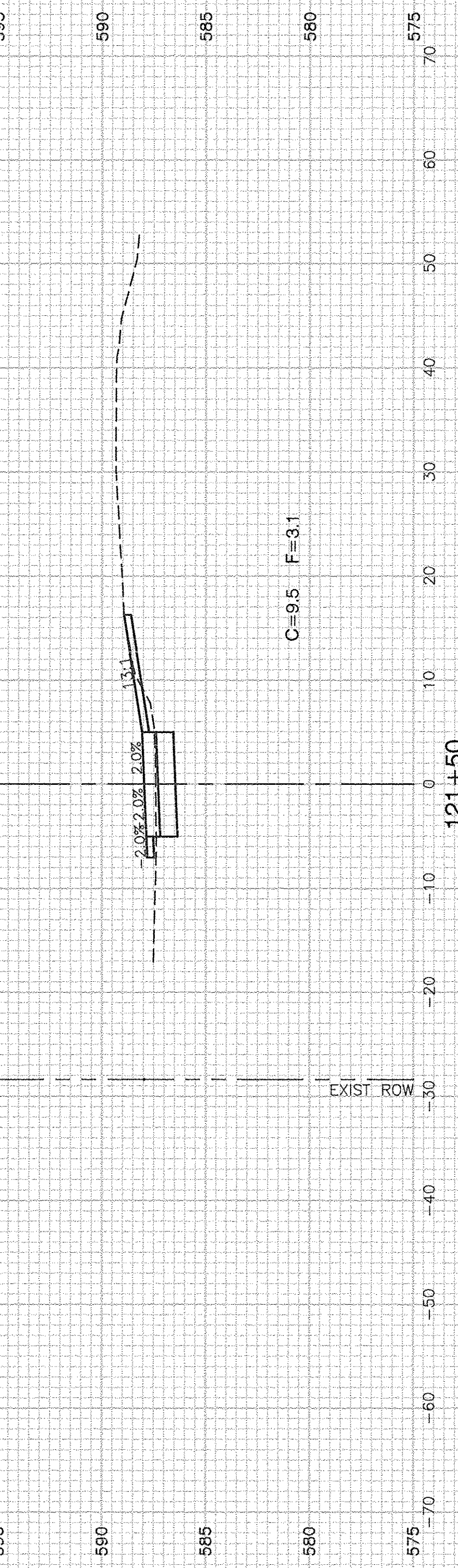
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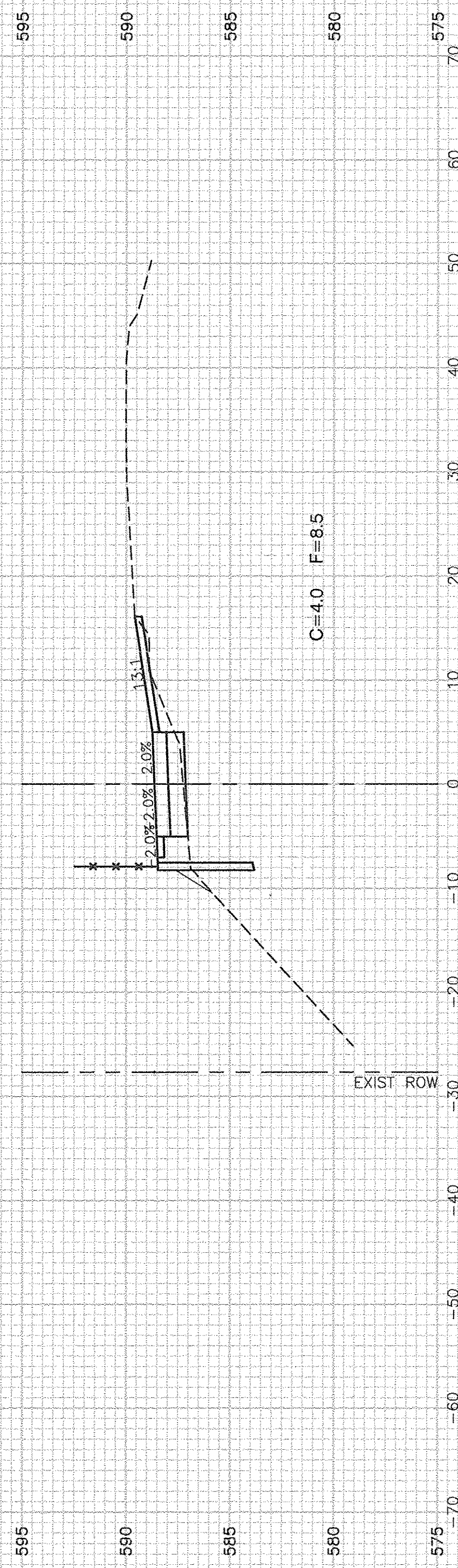
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C=3.8 F=92



C=9.5 F=3.1



C=4.0 F=8.5

FILE NAME = 11283-XSCT-01 - X(4)

USER NAME =	DESIGNED -- KJB	REVISED --
	CHECKED -- HLG	REVISED --
PLOT SCALE =	DRAWN -- ACAD	REVISED --
PLOT DATE = 4-19-16	CHECKED -- ACAD	REVISED --

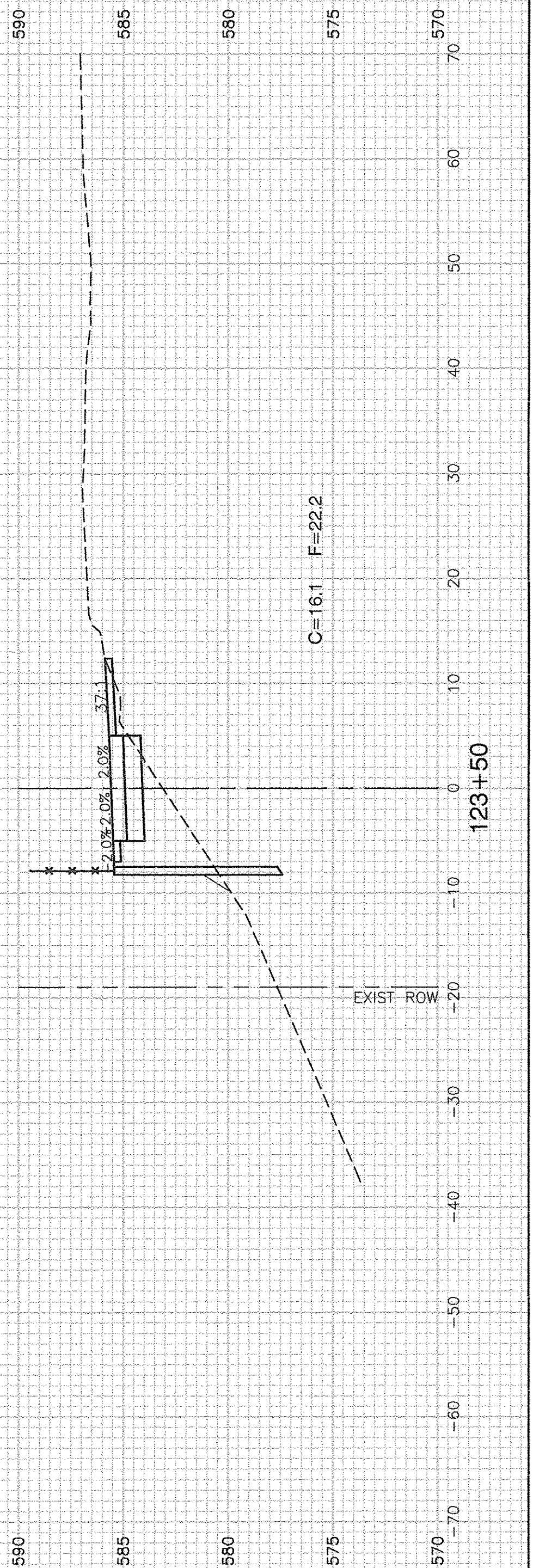
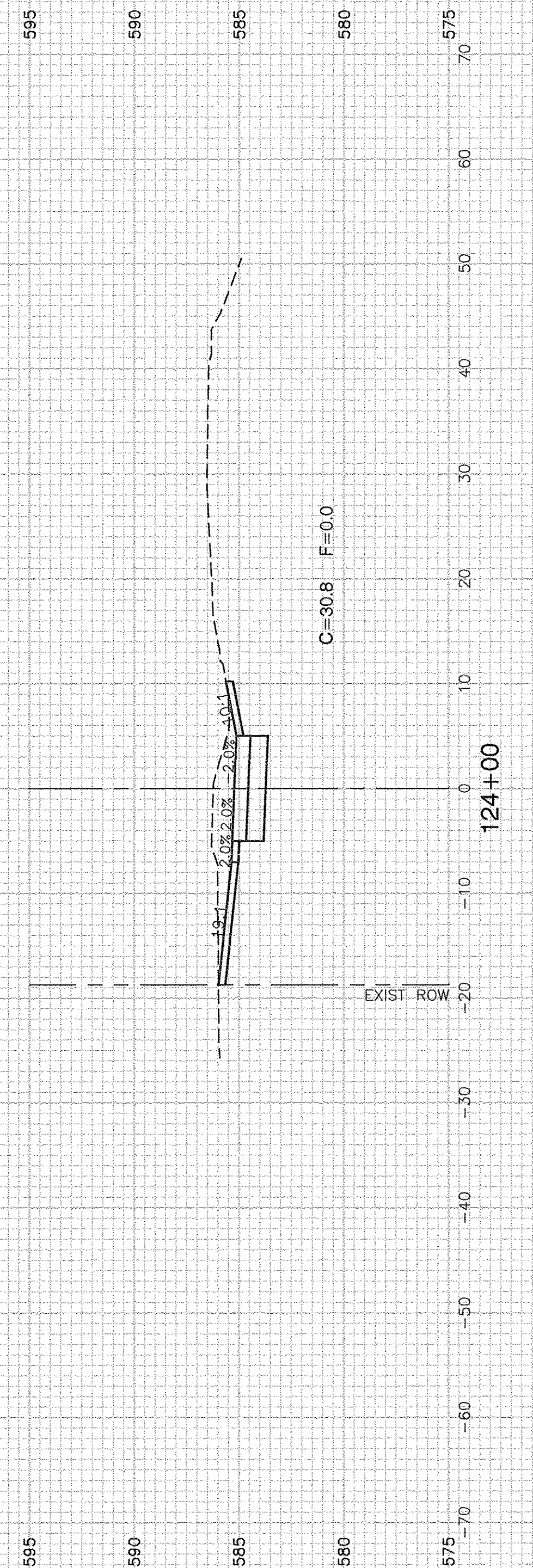
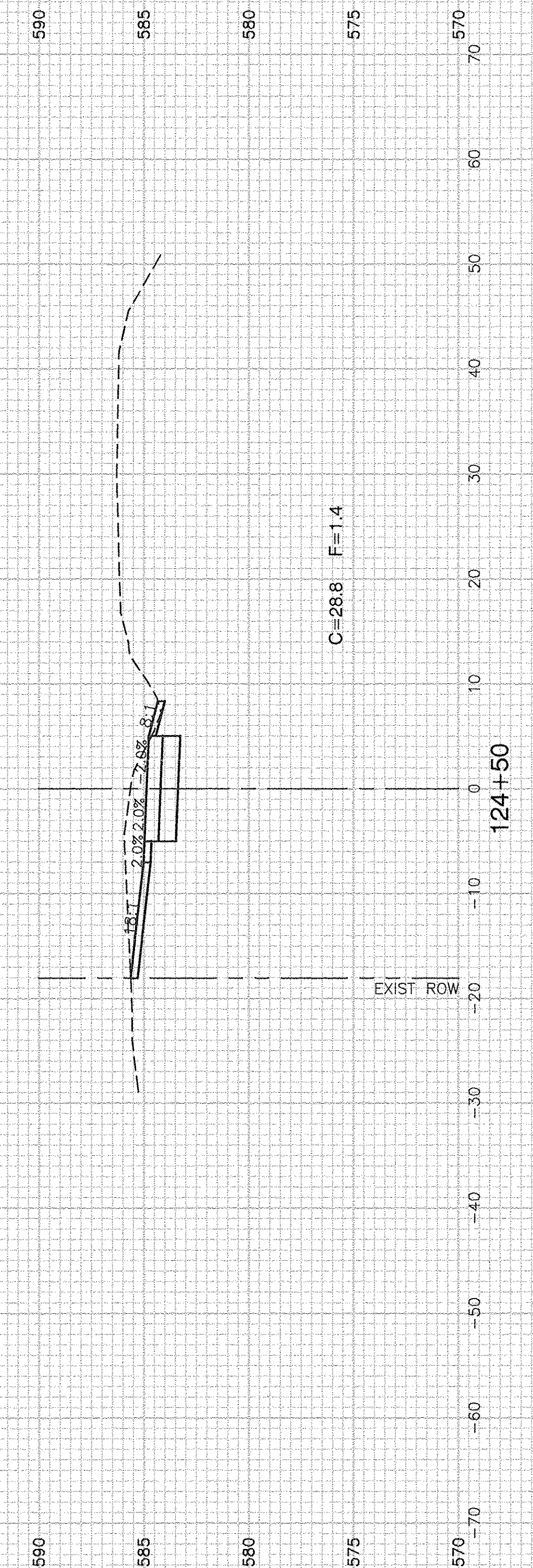
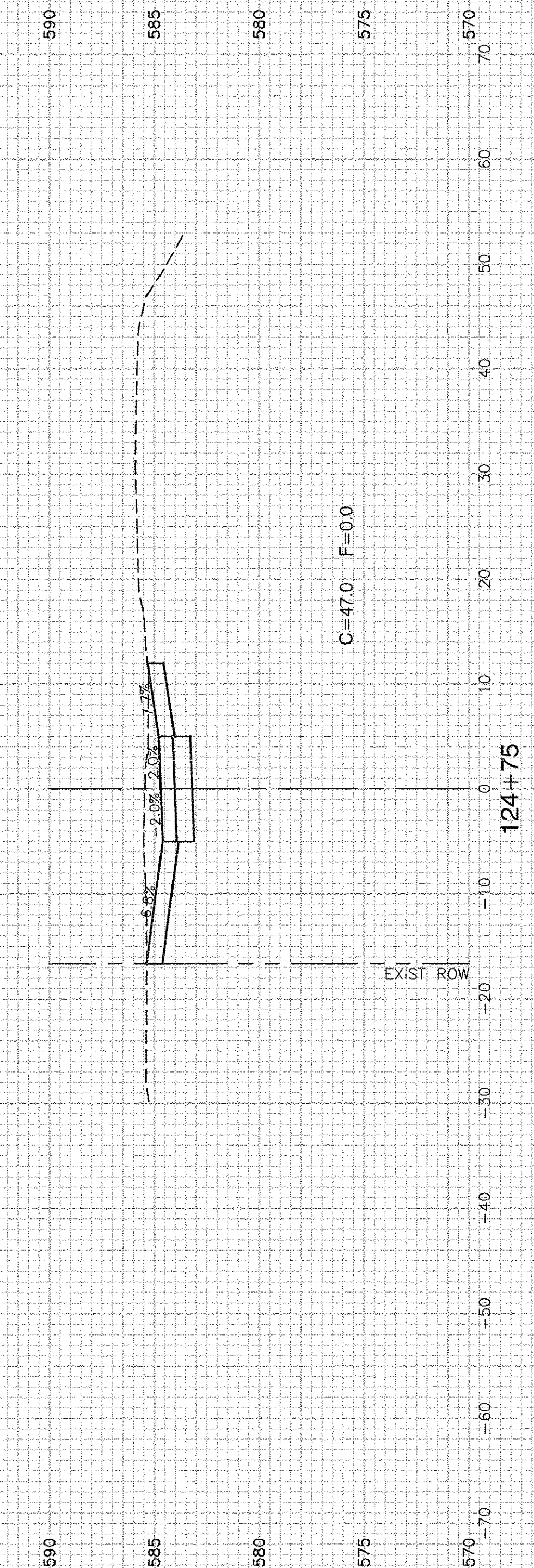
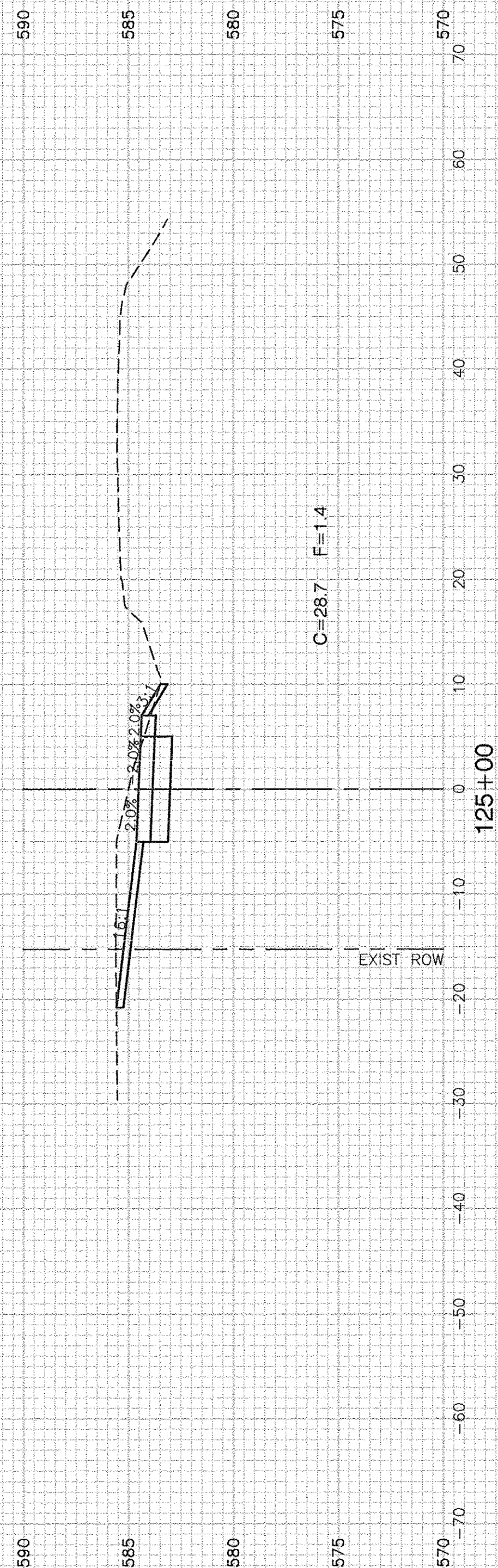
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

F.A.U. 0393 (MCEVILLY ROAD)  
MULTI-USE PATH - LIONS PARK TO VISTA COURT  
CROSS SECTIONS

SCALE: 1"=50'    SHEET NO. 26 OF 32 SHEETS    STA.    TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0393	10-00056-00-BT	GRUNDY/WILL	32	26
CONTRACT NO. 87631				
FED. ROAD DIST. NO. 3	ILLINOIS	FED. AID PROJECT TE-00D3 (093)		





FILE NAME = 11283-XSCT-01 - X(5)  
 USER NAME =  
 PLOT SCALE =  
 PLOT DATE = 4-19-16

DESIGNED	— KJB	REVISED	—
CHECKED	— HLG	REVISED	—
DRAWN	— ACAD	REVISED	—
CHECKED	— ACAD	REVISED	—

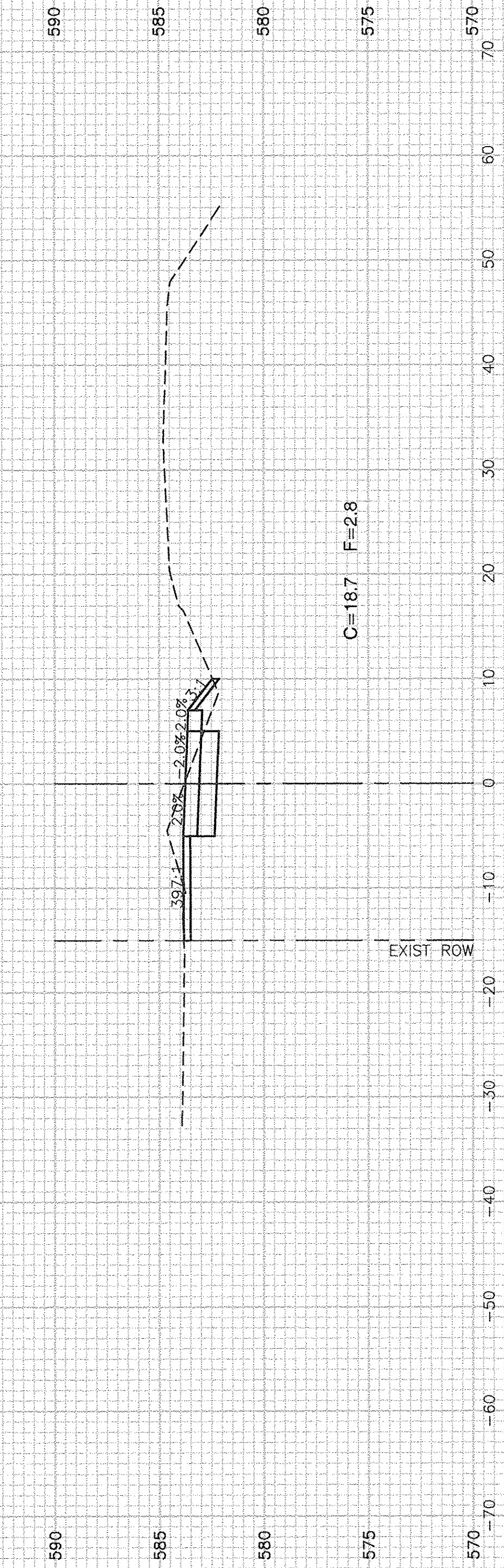
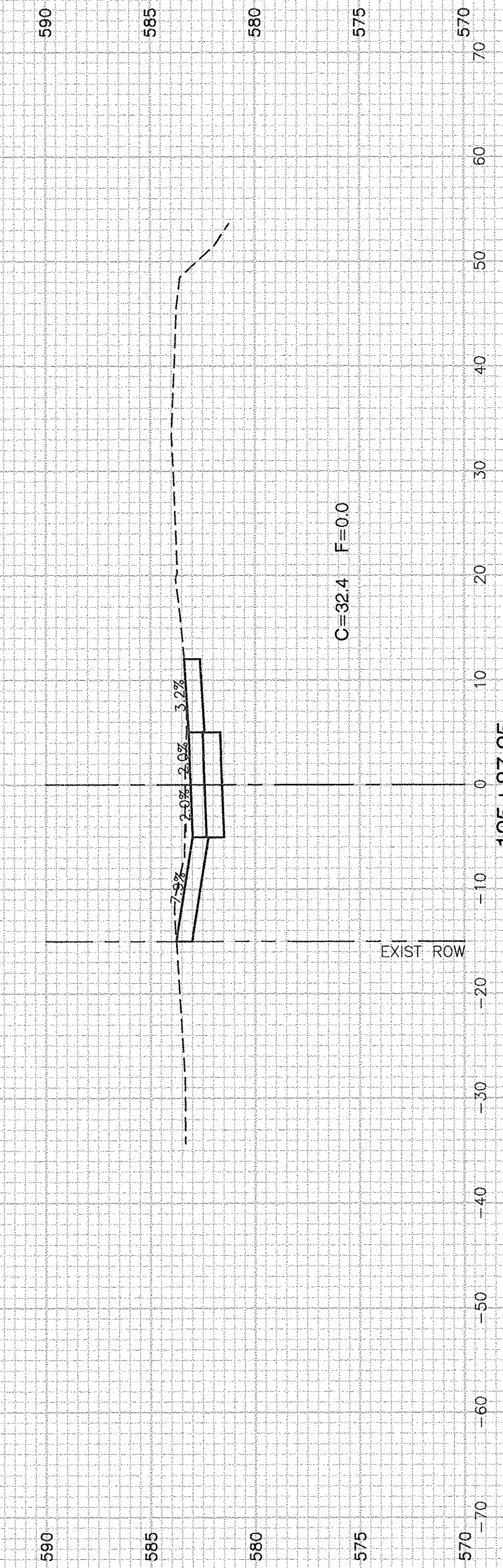
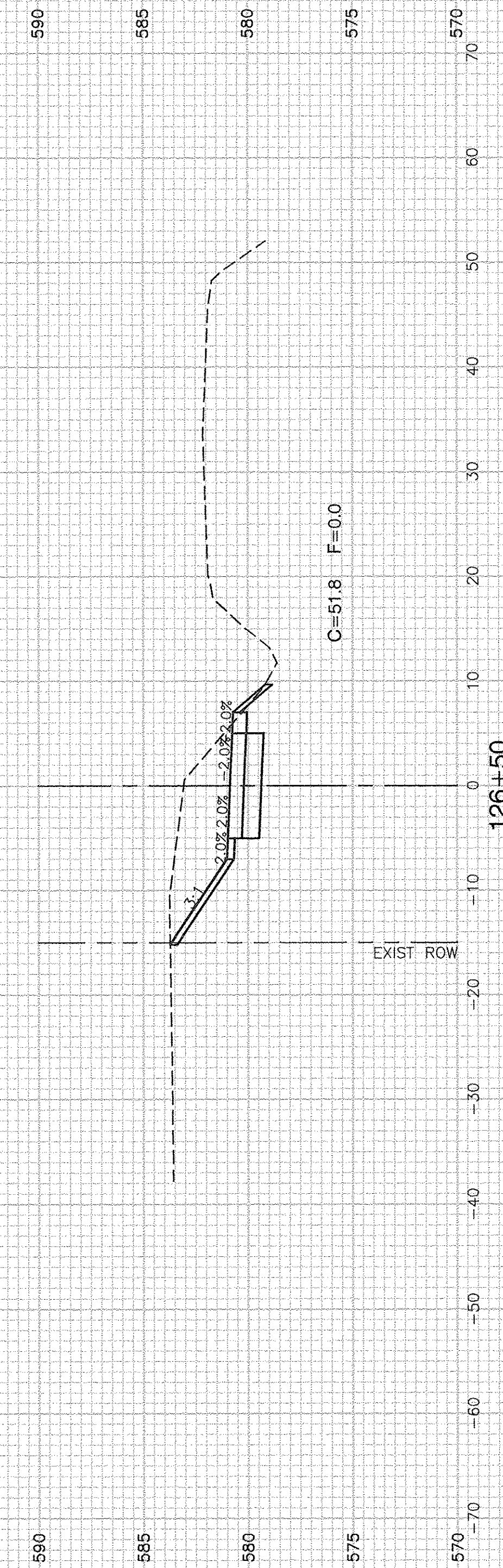
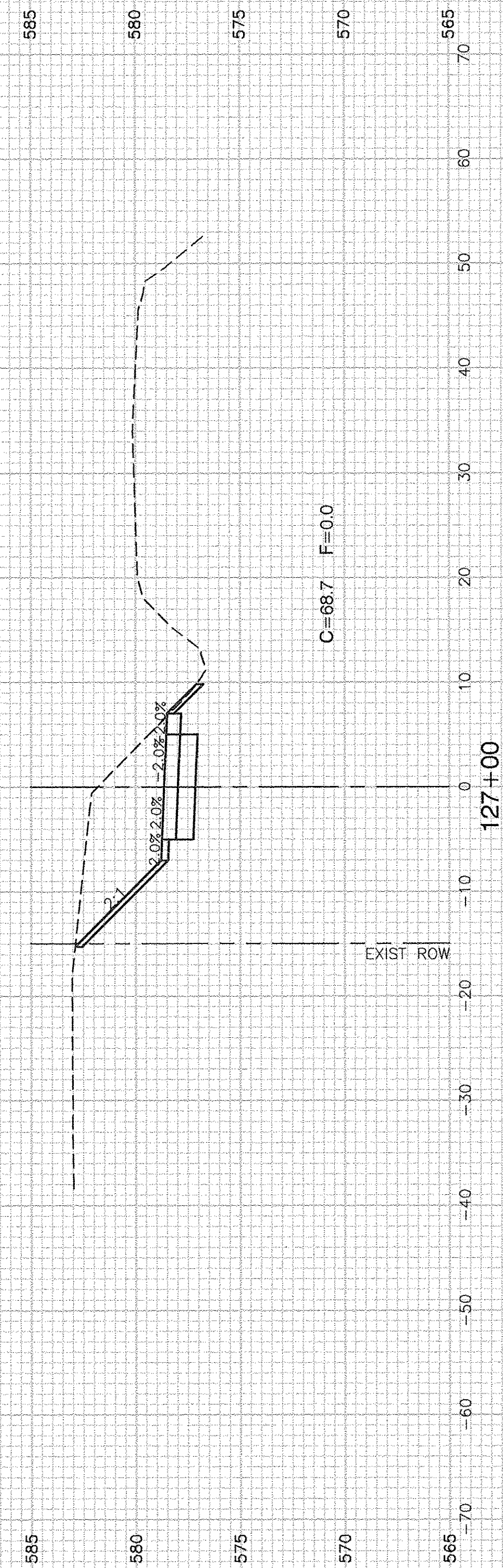
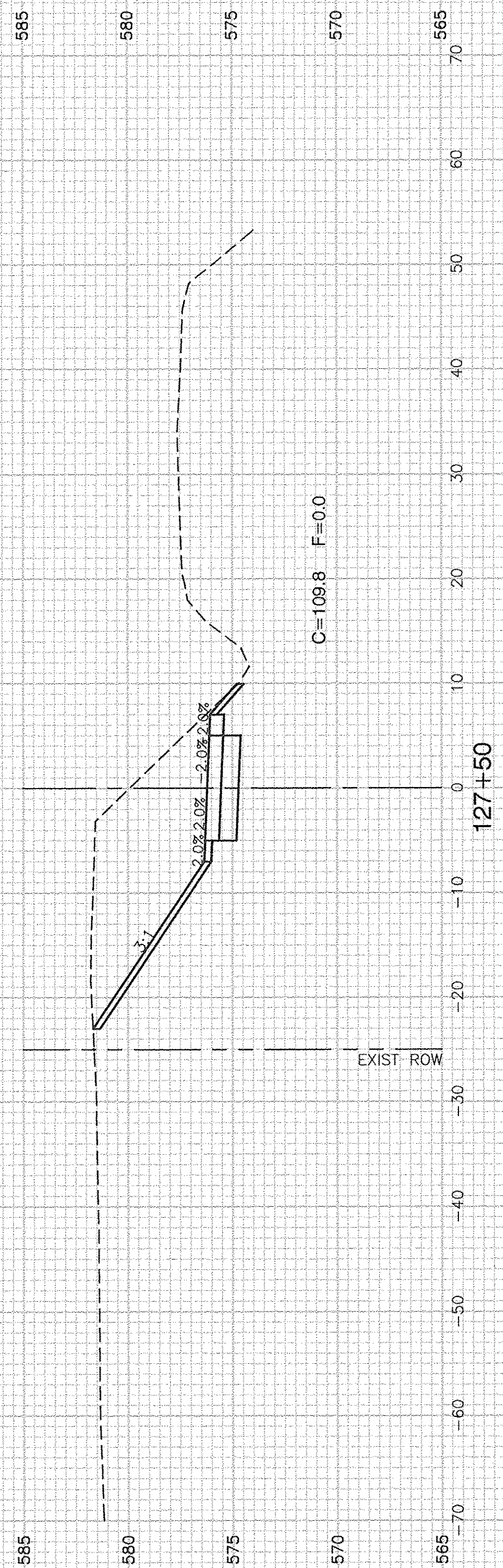
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**F.A.U. 0393 (MCEVILLY ROAD)  
 MULTI-USE PATH - LIONS PARK TO VISTA COURT  
 CROSS SECTIONS**

SCALE: 1"=50'      SHEET NO. 27 OF 32 SHEETS      STA.      TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0393	10-00056-00-BT	GRUNDY/WILL	32	27
CONTRACT NO. 87631				
FED. ROAD DIST. NO. 3	ILLINOIS	FED. AID PROJECT	TE-00D3 (093)	





FILE NAME = 11283-XSCT-01 - X(6)

USER NAME =  
 PLOT SCALE =  
 PLOT DATE = 4-19-16

DESIGNED — KJB  
 CHECKED — HLG  
 DRAWN — ACAD  
 CHECKED — ACAD

REVISED —  
 REVISED —  
 REVISED —  
 REVISED —

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

F.A.U. 0393 (MCEVILLY ROAD)  
 MULTI-USE PATH - LIONS PARK TO VISTA COURT  
 CROSS SECTIONS

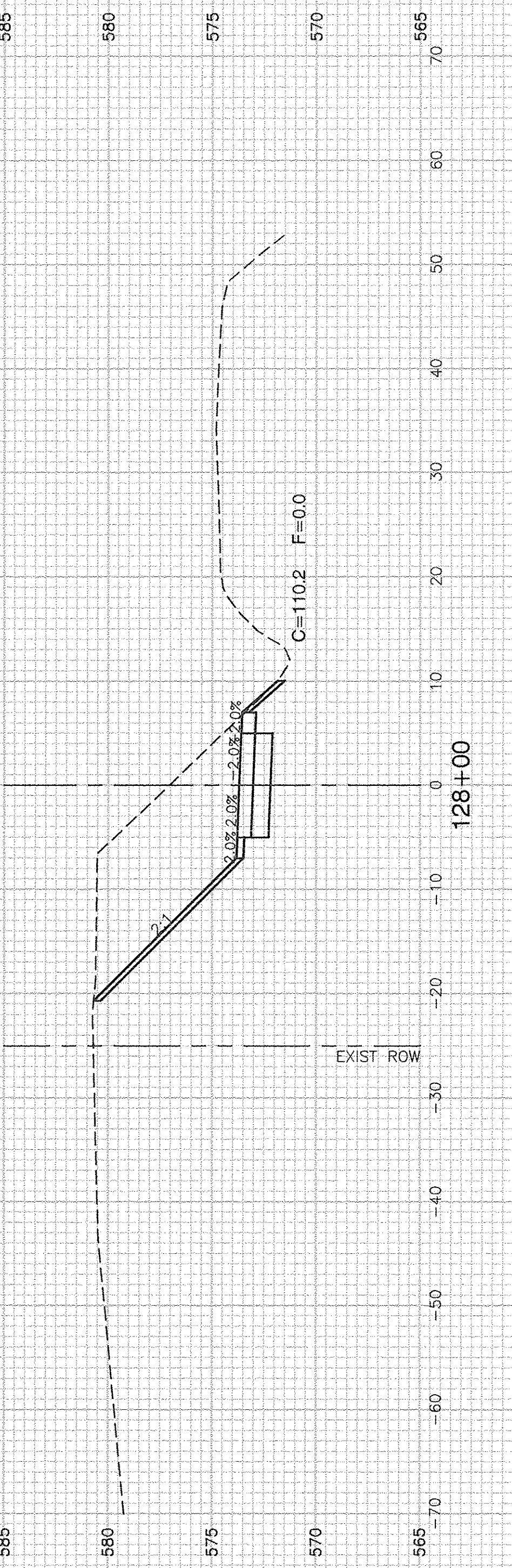
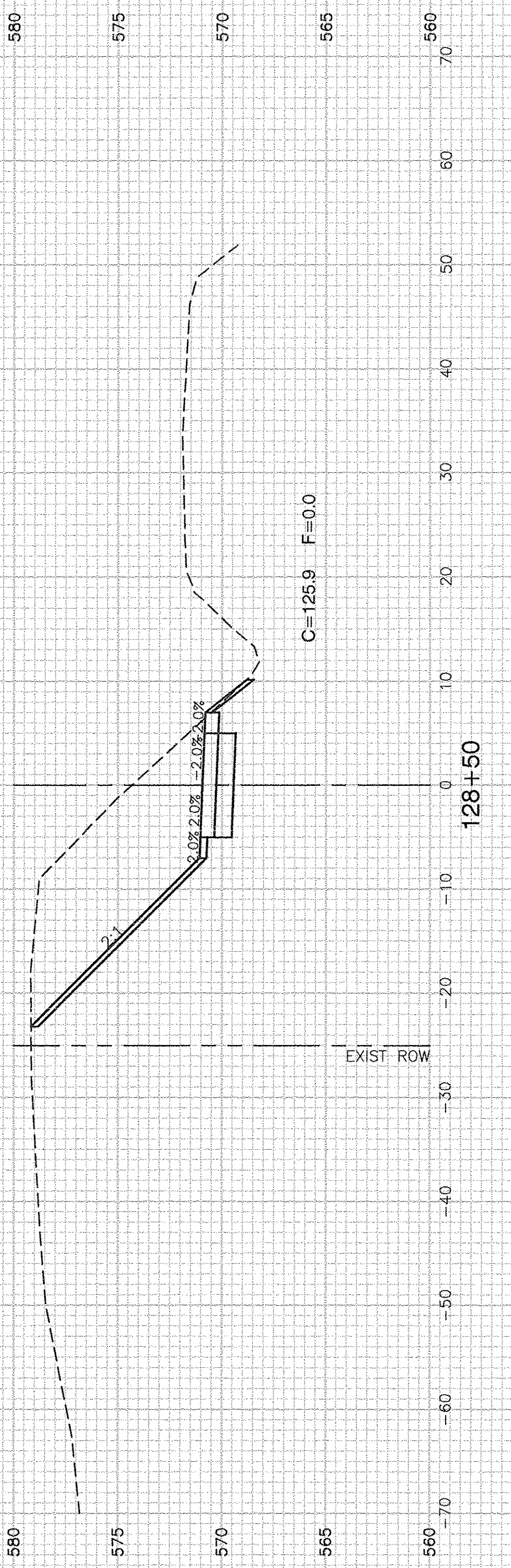
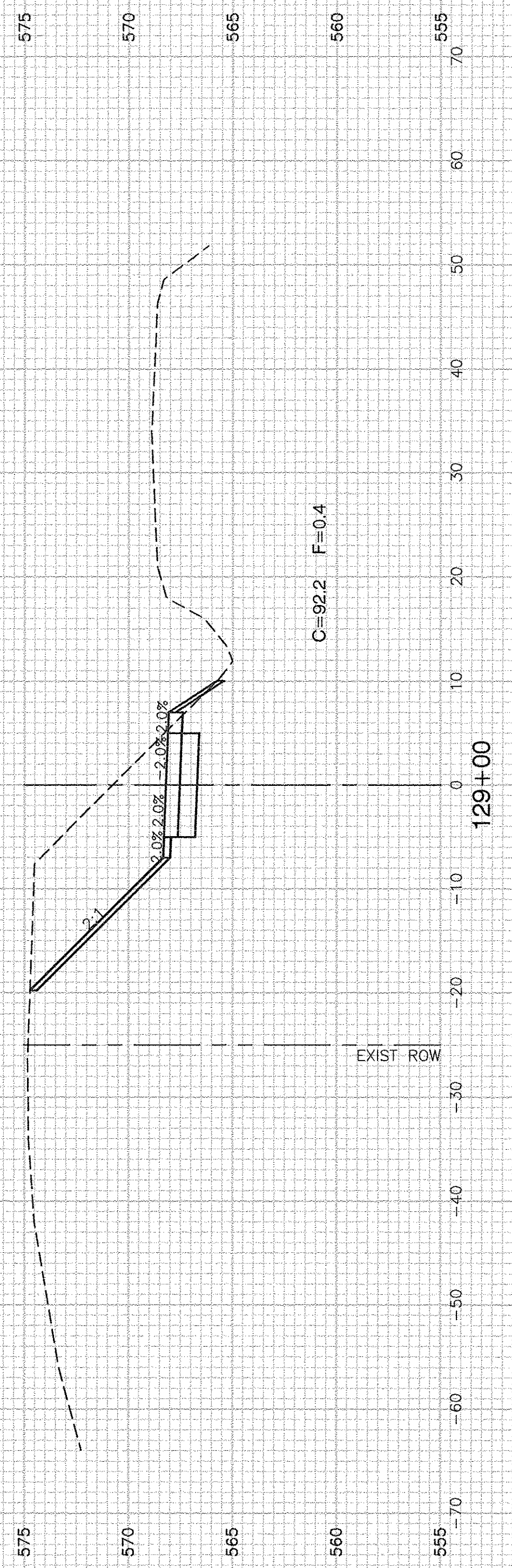
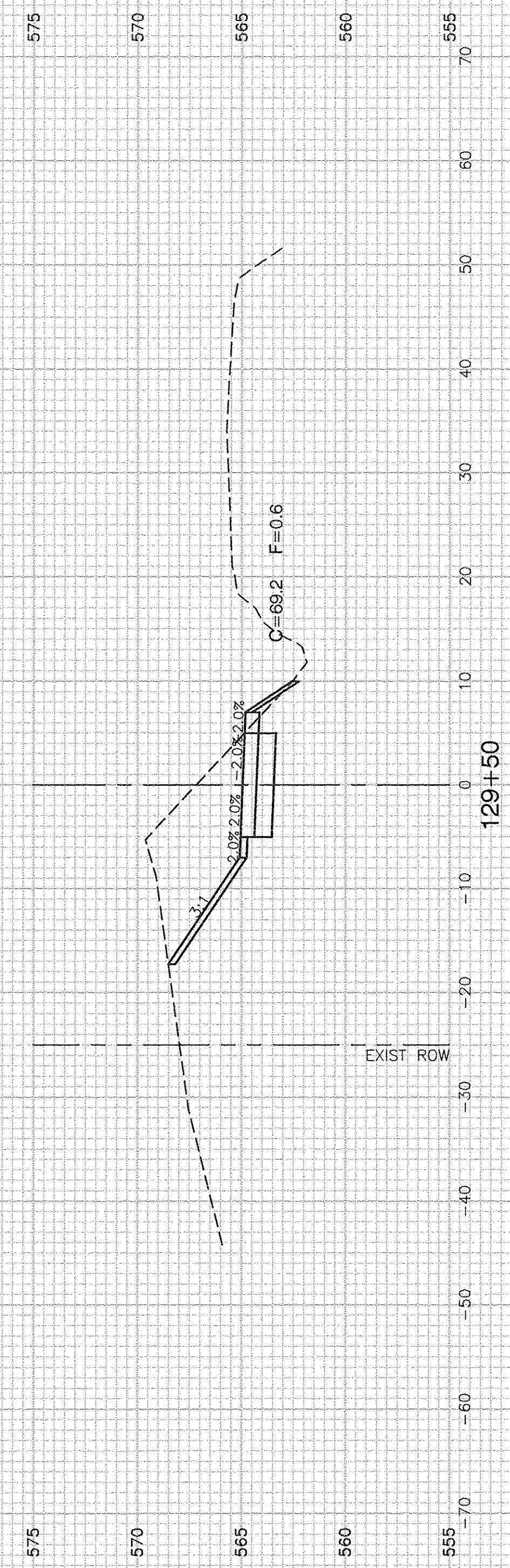
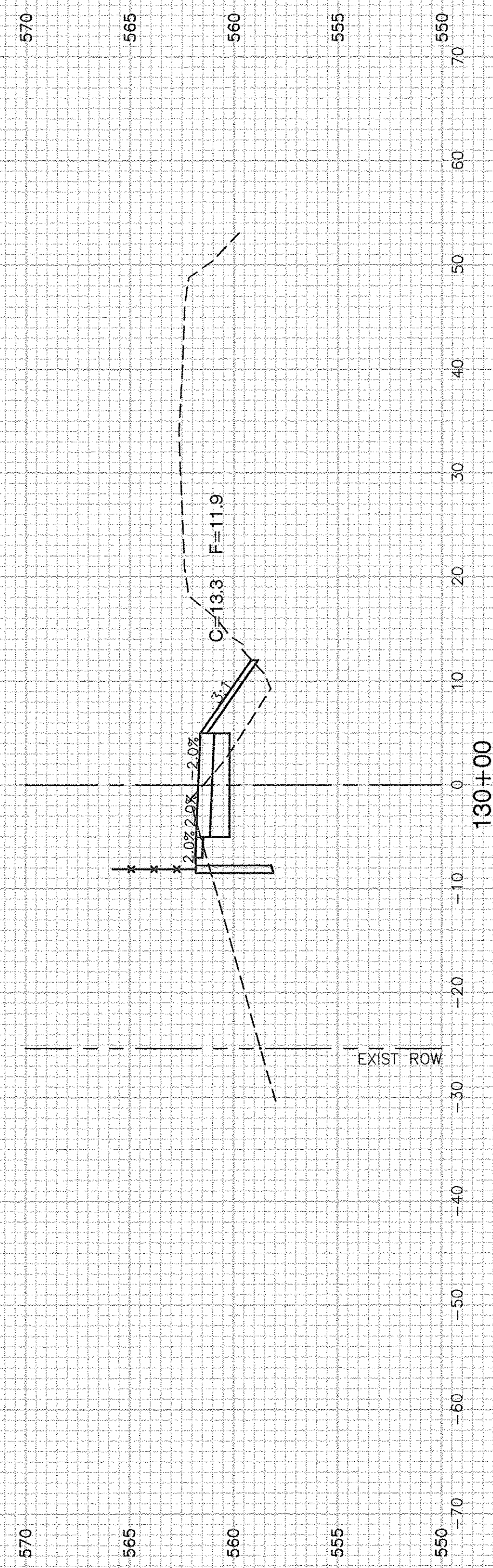
SCALE: 1"=50'

SHEET NO. 28 OF 32 SHEETS

STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0393	10-00056-00-BT	GRUNDY/WILL	32	28
CONTRACT NO. 87631				
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	TE-00D3 (093)	
3				





FILE NAME = 11283-XSCT-01 - X(7)

USER NAME =	DESIGNED -- KJB	REVISED --
	CHECKED -- HLG	REVISED --
PLOT SCALE =	DRAWN -- ACAD	REVISED --
PLOT DATE = 4-19-16	CHECKED -- ACAD	REVISED --

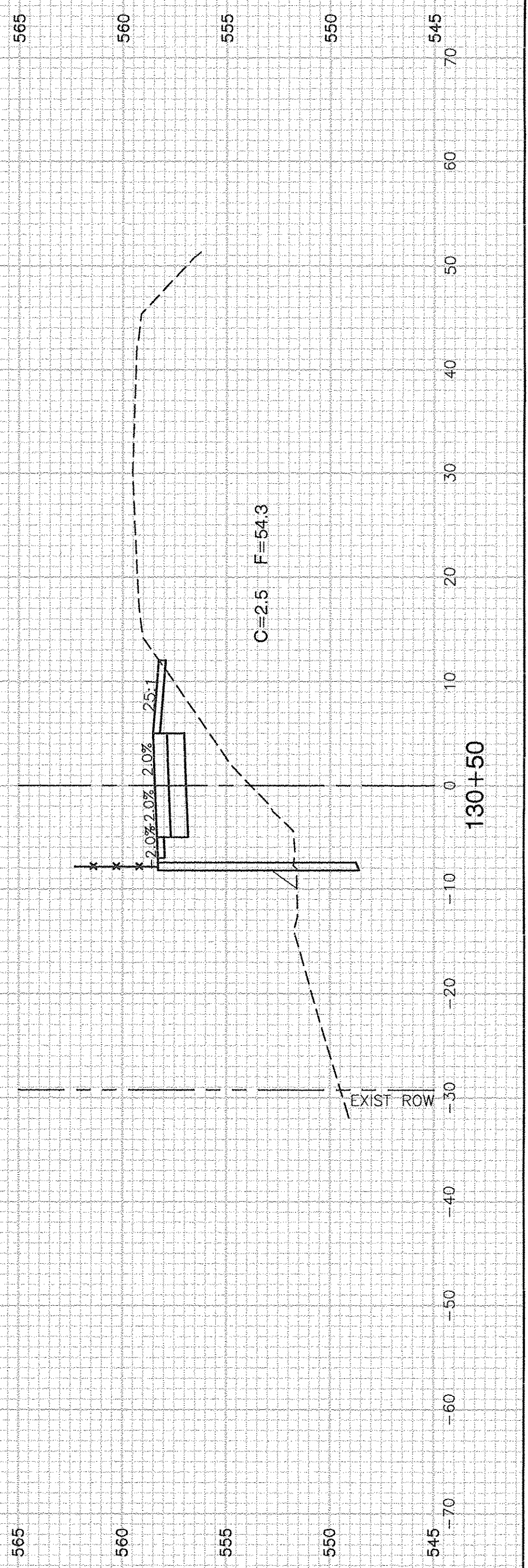
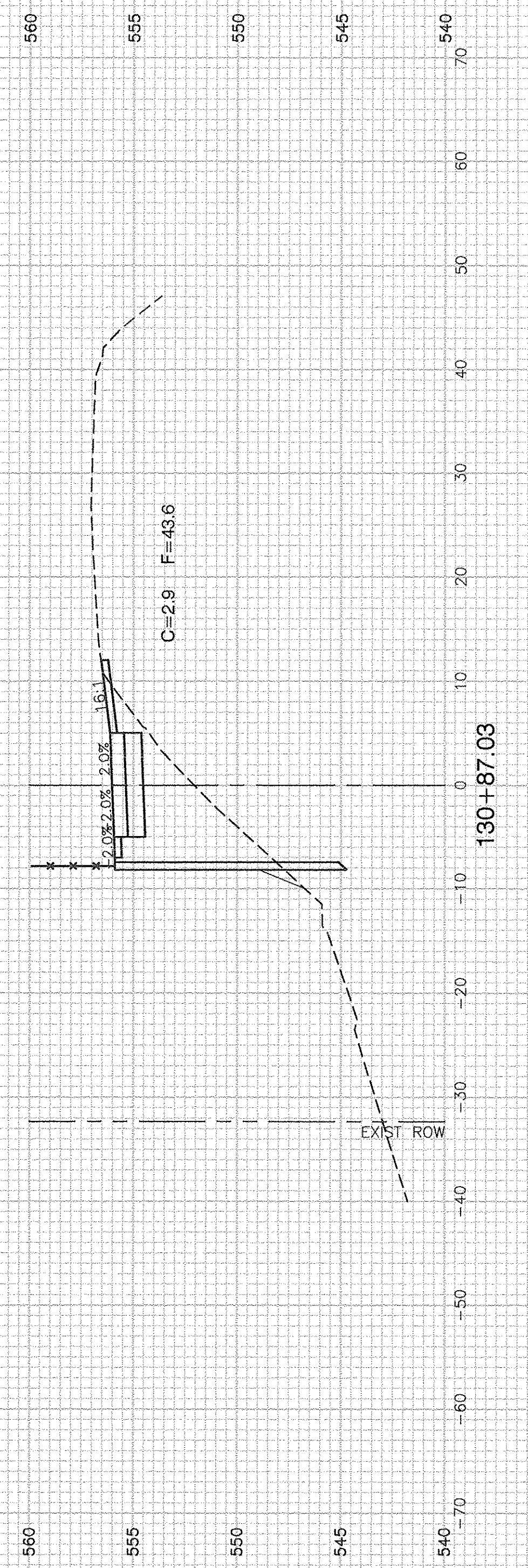
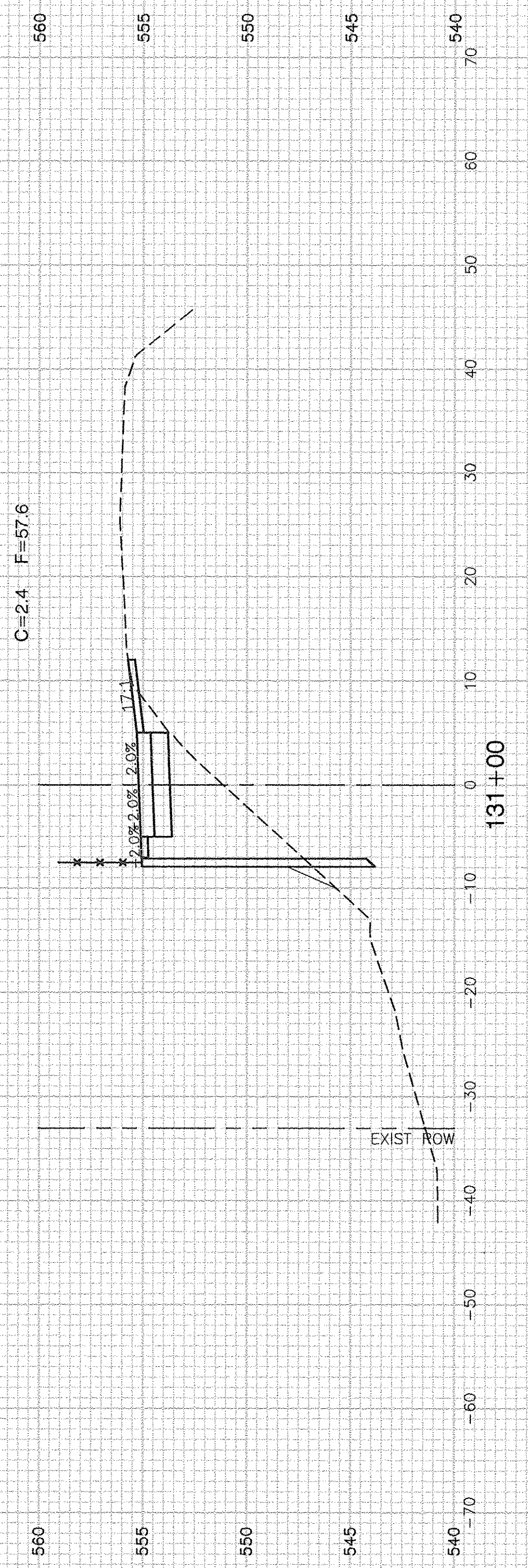
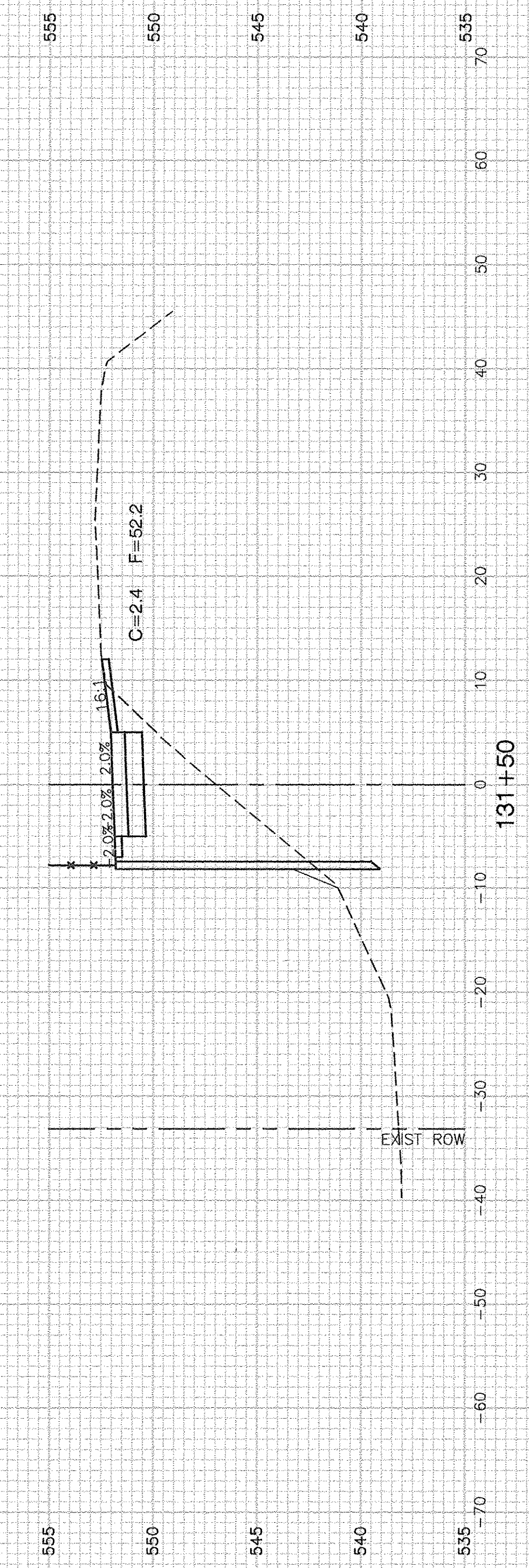
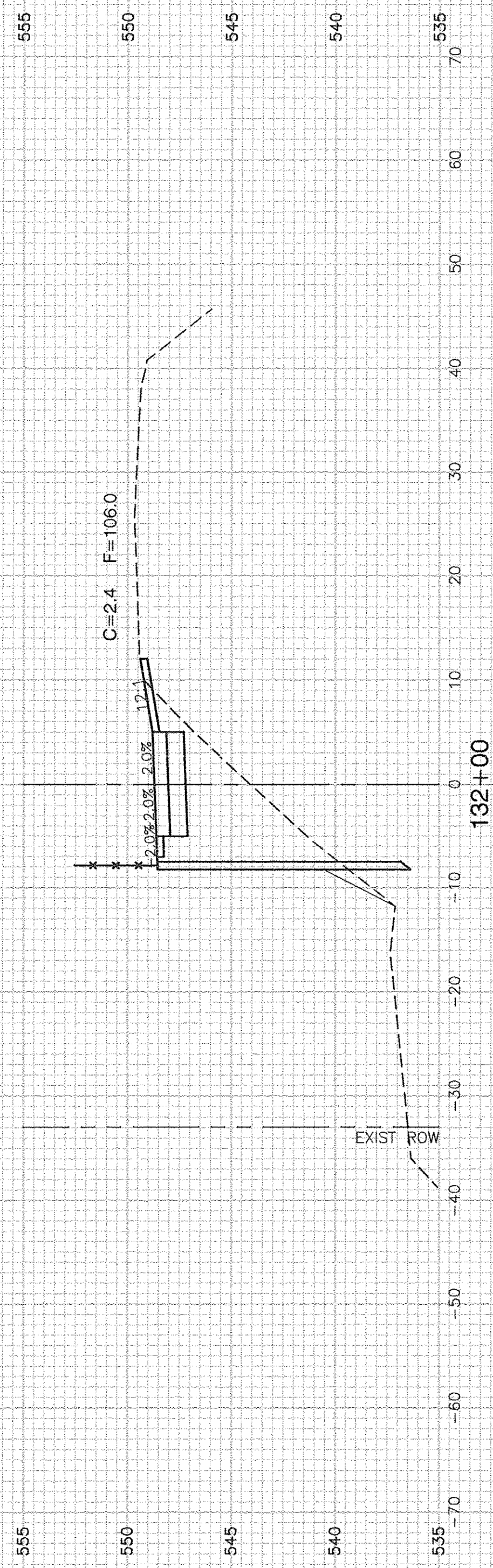
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

F.A.U. 0393 (MCEVILLY ROAD)  
MULTI-USE PATH - LIONS PARK TO VISTA COURT  
CROSS SECTIONS

SCALE: 1"=50'      SHEET NO. 29 OF 32 SHEETS      STA.      TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0393	10-00056-00-BT	GRUNDY/WILL	32	29
CONTRACT NO. 87631				
FED. ROAD DIST. NO. 3      ILLINOIS      FED. AID PROJECT TE-00D3 (093)				





FILE NAME = 11283-XSCT-01 - X(B)

USER NAME =	DESIGNED -- KJB	REVISED --
	CHECKED -- HLG	REVISED --
PLOT SCALE =	DRAWN -- ACAD	REVISED --
PLOT DATE = 4-19-16	CHECKED -- ACAD	REVISED --

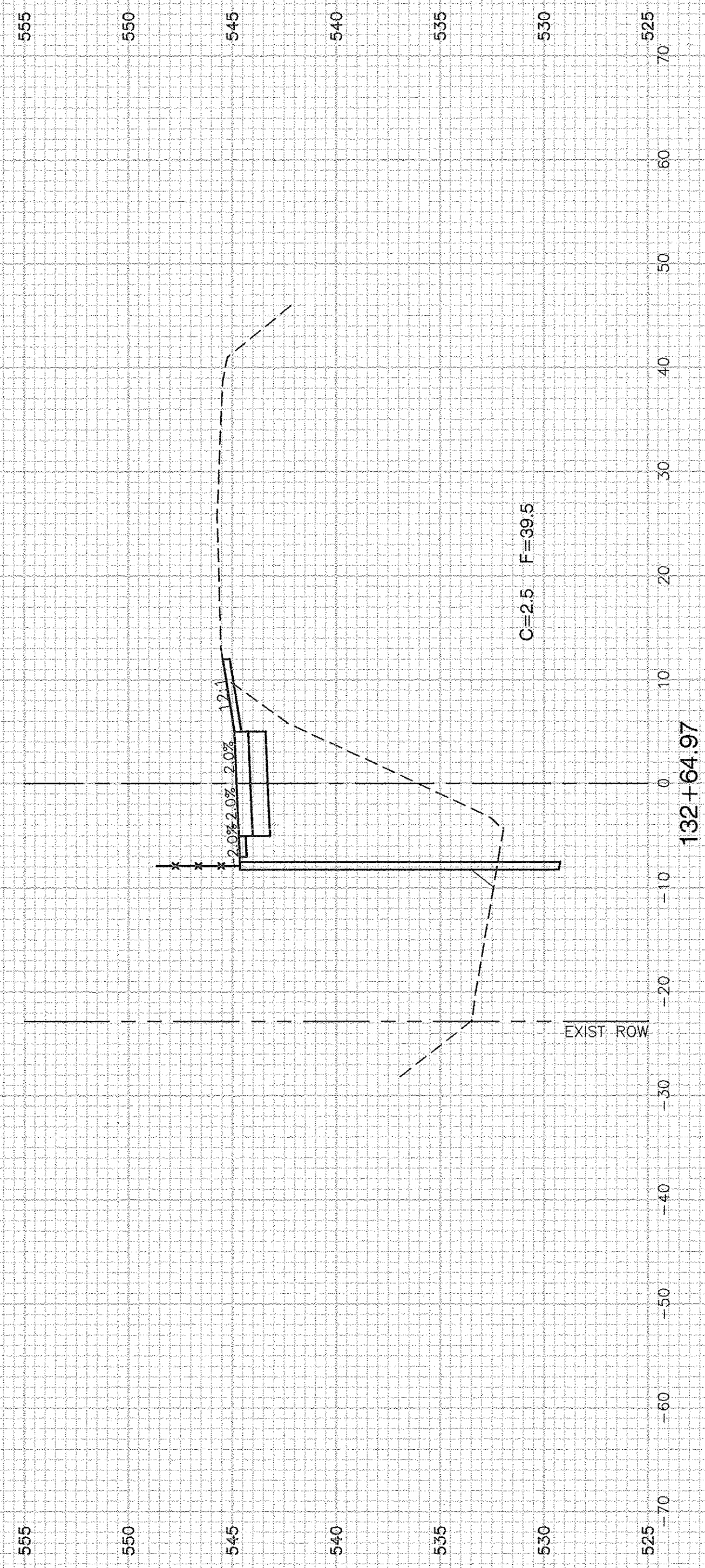
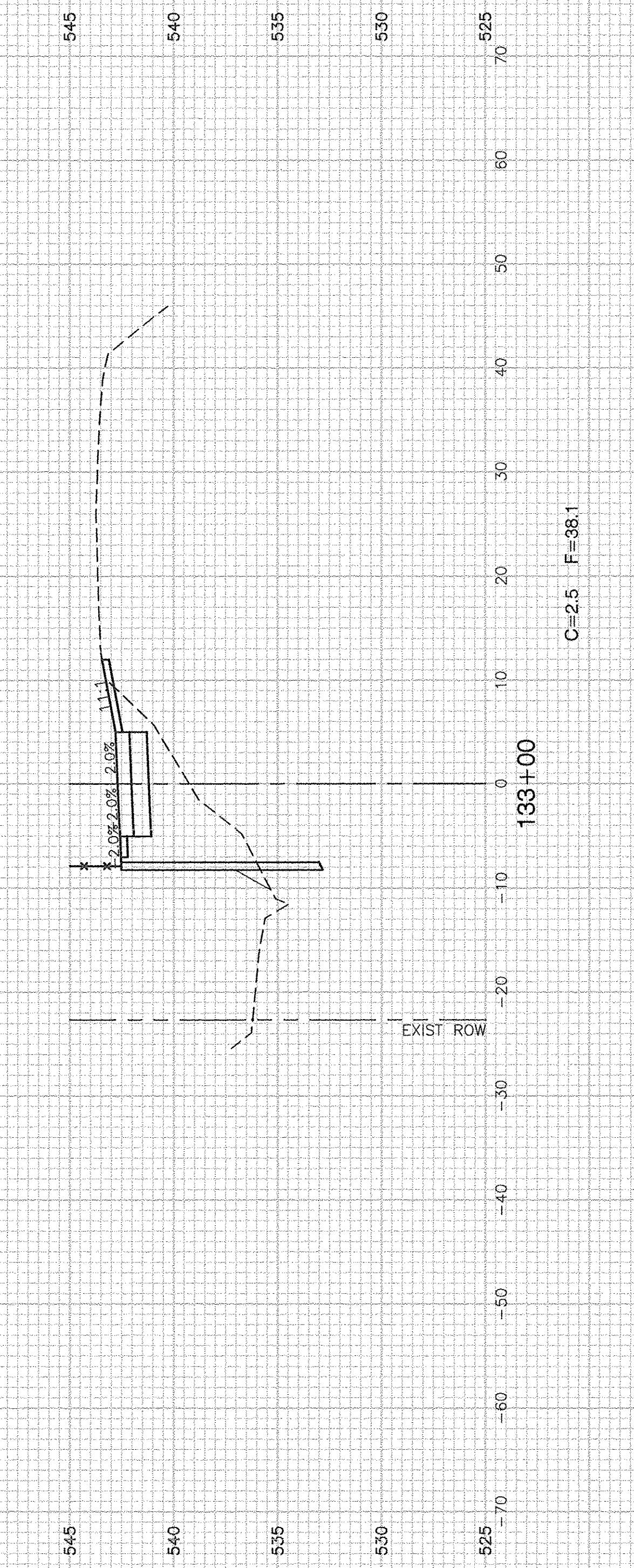
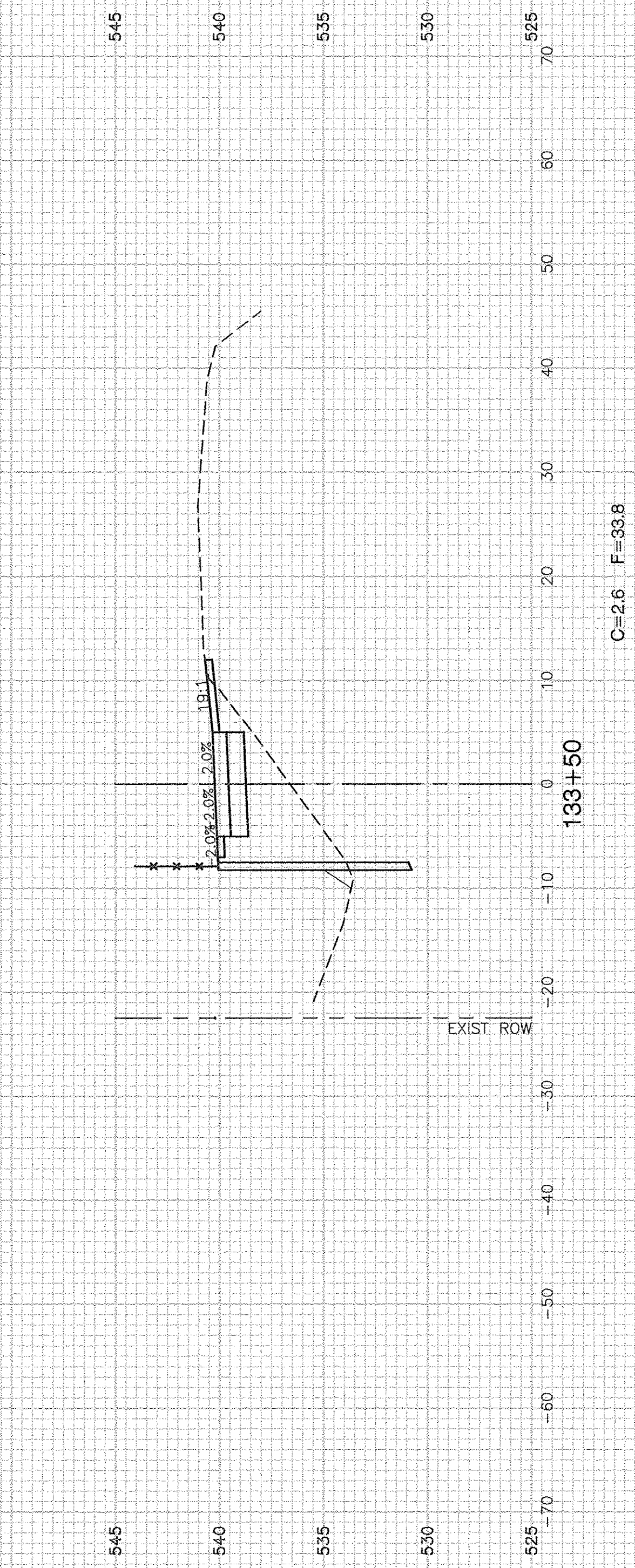
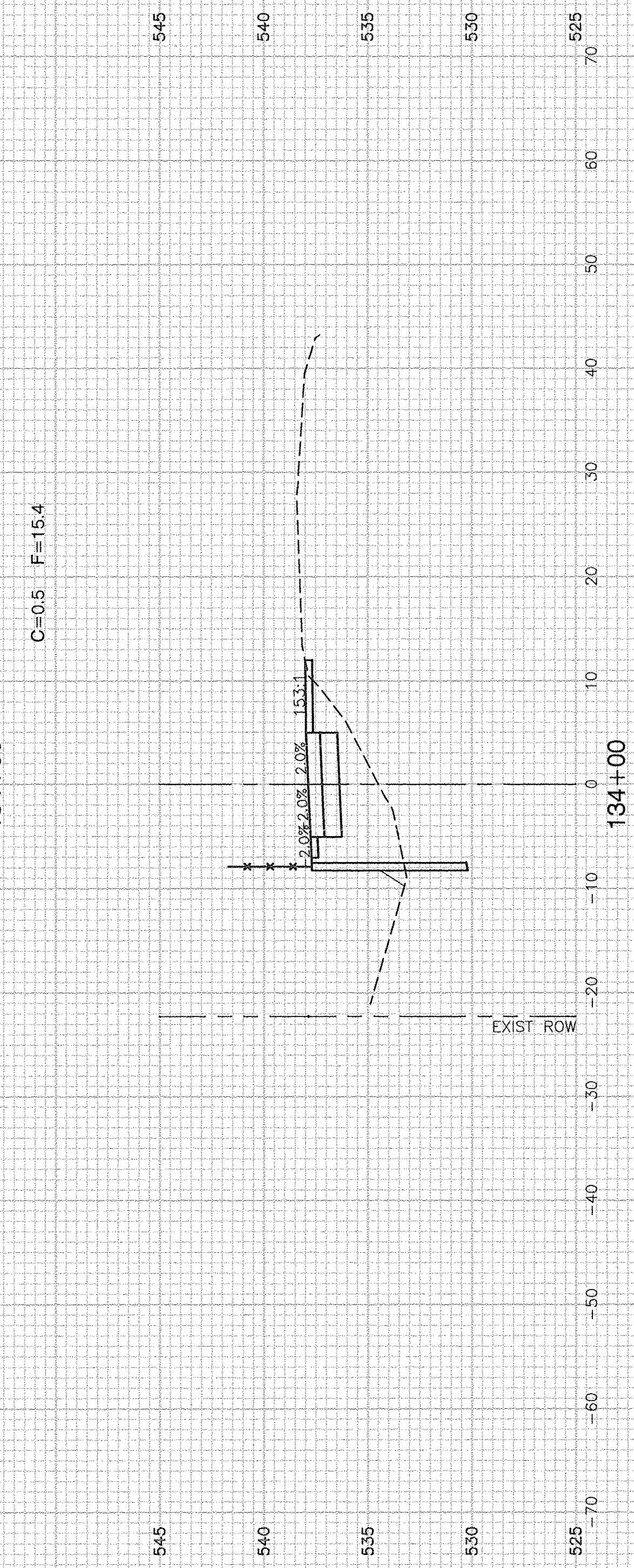
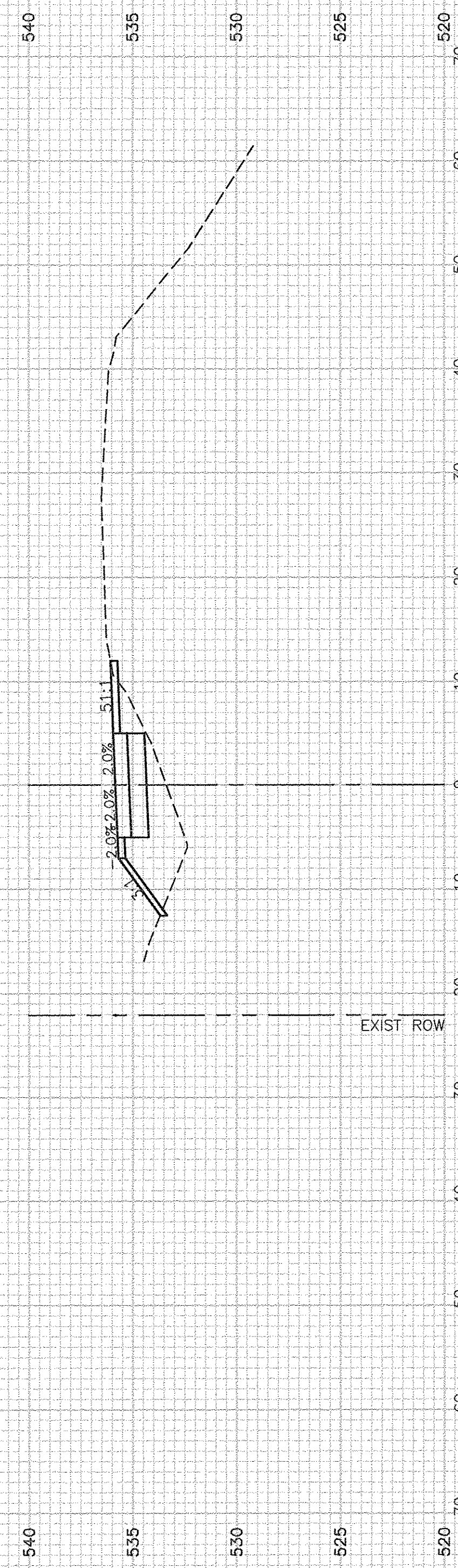
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

F.A.U. 0393 (MCEVILLY ROAD)			
MULTI-USE PATH - LIONS PARK TO VISTA COURT			
CROSS SECTIONS			
SCALE: 1"=50'	SHEET NO. 30	OF 32 SHEETS	STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0393	10-00056-00-BT	GRUNDY/WILL	32	30
FED. ROAD DIST. NO. 3 ILLINOIS			FED. AID PROJECT TE-00D3 (093)	
			CONTRACT NO. 87631	

DATE PLOTTED: 4/19/16 10:00 AM





FILE NAME = 11283-XSCT-01 - X(9)

USER NAME =	DESIGNED -- KJB	REVISED --
	CHECKED -- HLG	REVISED --
PLOT SCALE =	DRAWN -- ACAD	REVISED --
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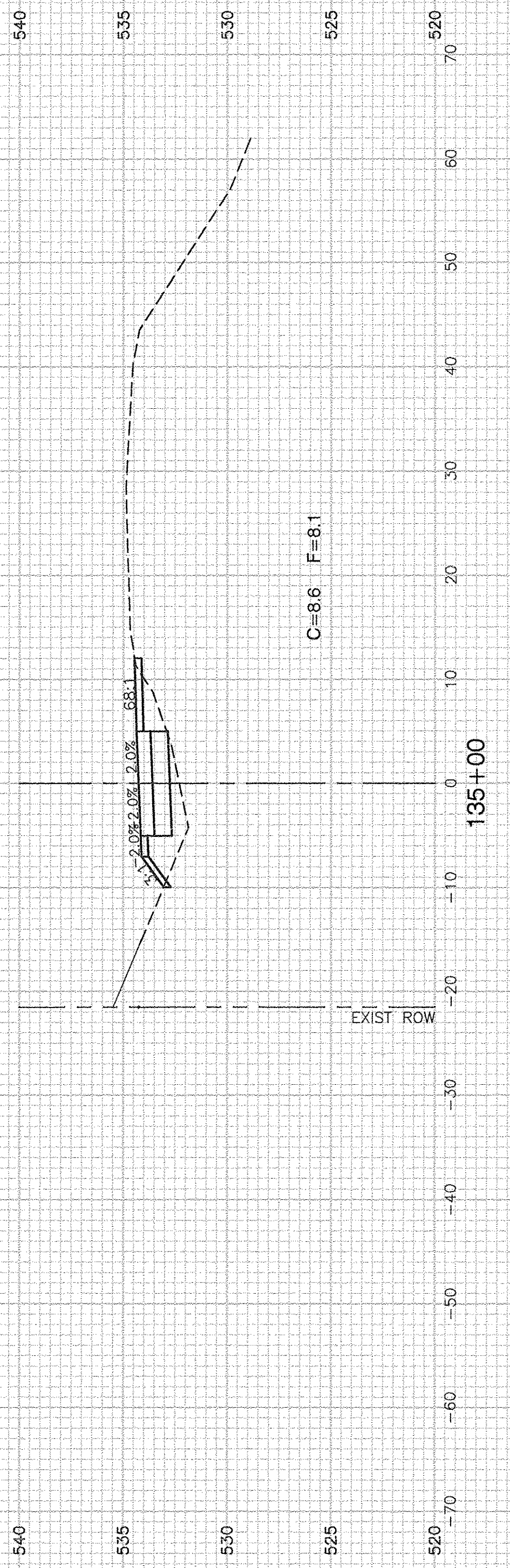
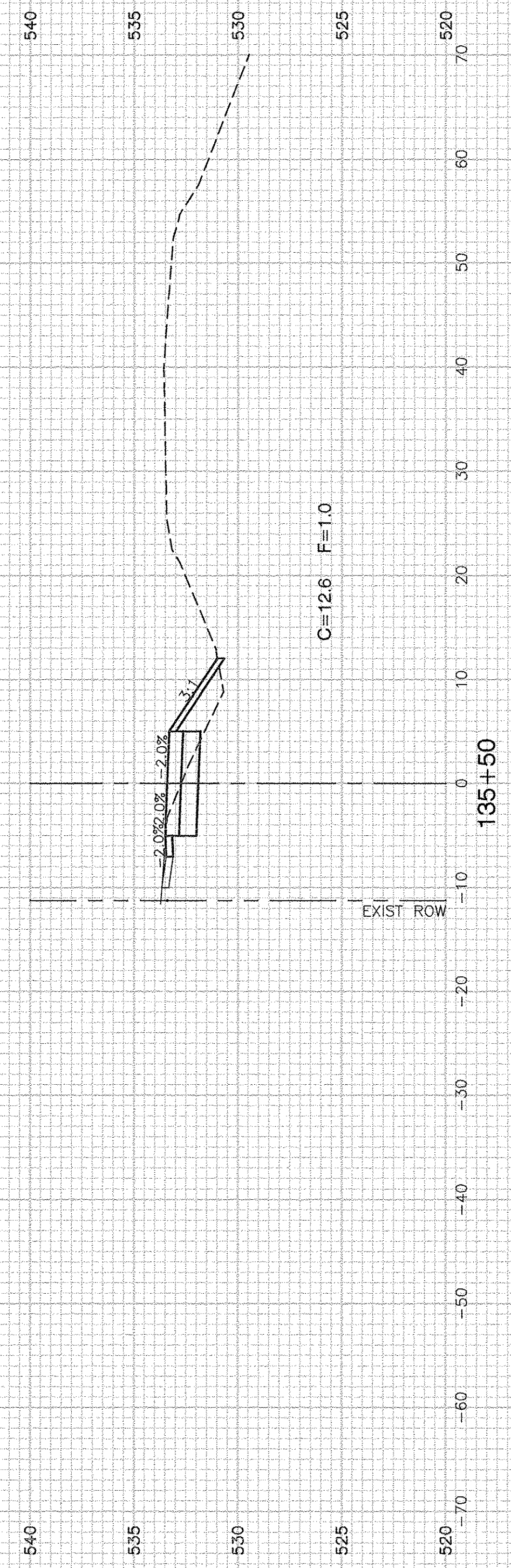
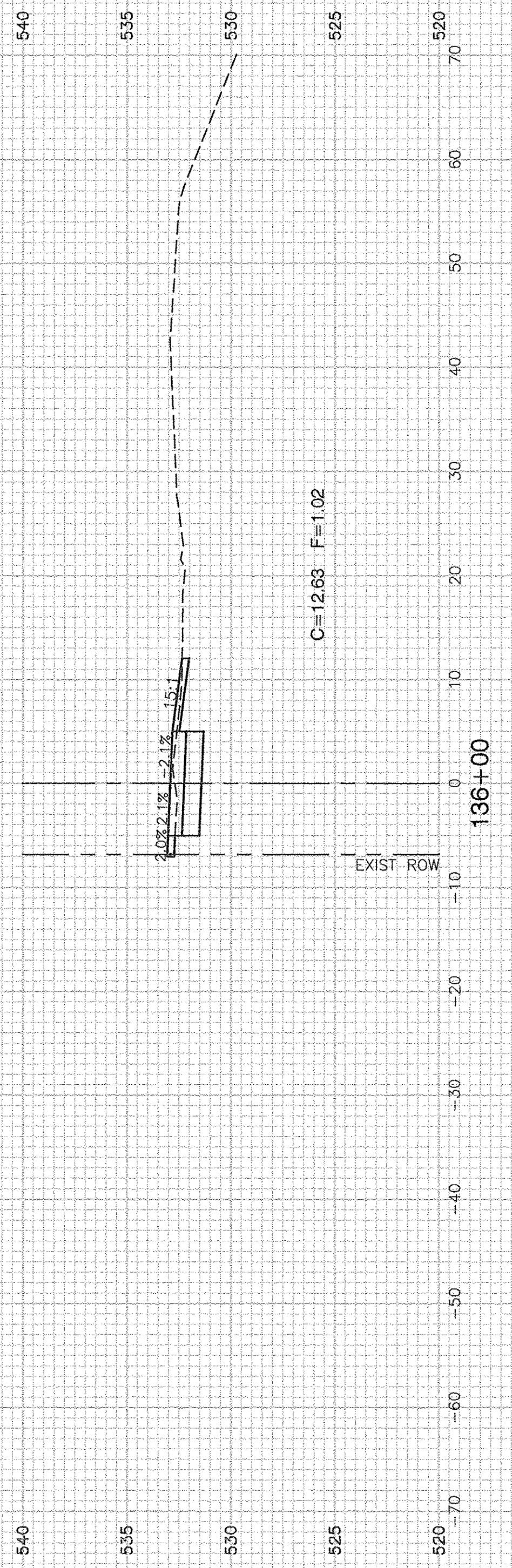
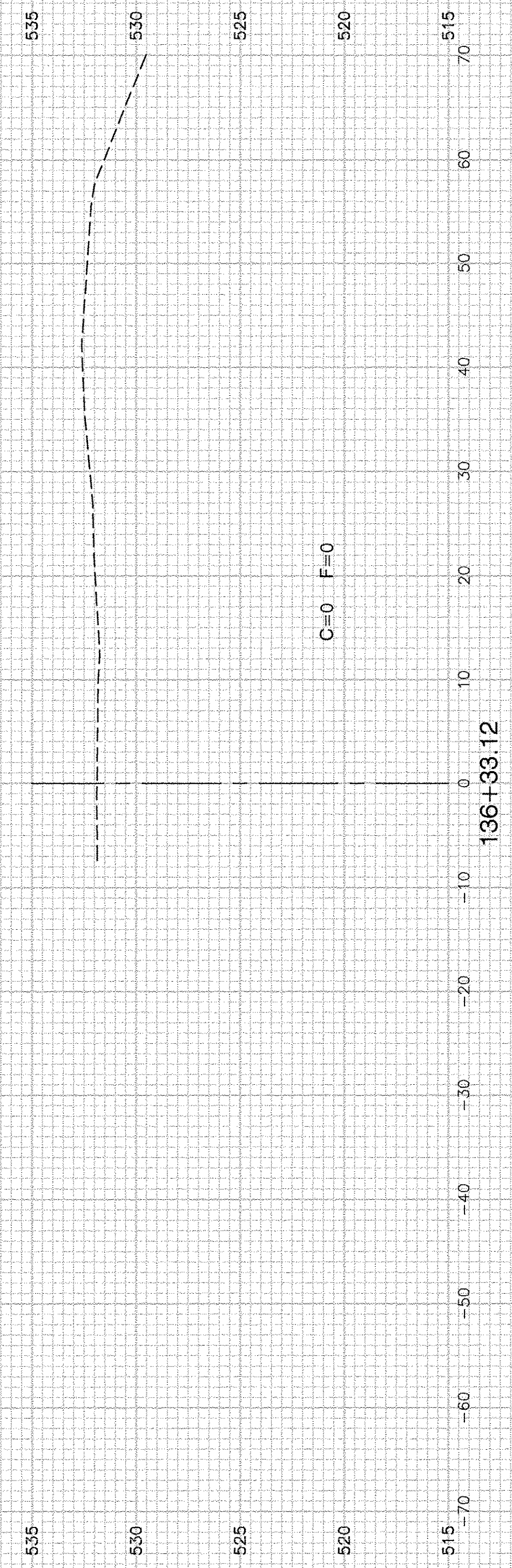
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

F.A.U. 0393 (MCEVILLY ROAD)  
MULTI-USE PATH - LIONS PARK TO VISTA COURT  
CROSS SECTIONS

SCALE: 1"=50'      SHEET NO. 31 OF 32 SHEETS      STA.      TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0393	10-00056-00-BT	GRUNDY/WILL	32	31
CONTRACT NO. 87631				
FED. ROAD DIST. NO. 3	ILLINOIS	FED. AID PROJECT	TE-00D3 (093)	





**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**F.A.U. 0393 (MCEVILLY ROAD)  
MULTI-USE PATH - LIONS PARK TO VISTA COURT  
CROSS SECTIONS**

FILE NAME = 11283-XSCT-01 - X(10)  
 USER NAME =  
 PLOT SCALE =  
 PLOT DATE = 4-19-16

DESIGNED — KJB	REVISED —
CHECKED — HLG	REVISED —
DRAWN — ACAD	REVISED —
CHECKED — ACAD	REVISED —

SCALE: 1"=50'      SHEET NO. 32 OF 32 SHEETS      STA. TO STA.

F.A.U. RTE. 0393	SECTION 10-00056-00-BT	COUNTY GRUNDY/WILL	TOTAL SHEETS 32	SHEET NO. 32
FED. ROAD DIST. NO. 3 ILLINOIS			CONTRACT NO. 87631	
FED. AID PROJECT TE-00D3 (093)				