

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8995/8961	21-00231-03-SW	MADISON	35	1
FEDERAL AID PROJECT			CONTRACT NO. 97801	

CONTACT JULIE AT 811 OR 800-892-0123
With the following:



County MADISON
City / Township CITY OF ALTON
SE. 1/4 SEC. 12 T.5N., R.10W.
NW. 1/4 SEC. 7 T.5N., R.9W.
48 HOURS (2 working days) BEFORE YOU DIG

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION TAP FUNDS

06-16-2023 LETTING ITEM 104

SAFE ROUTES TO SCHOOL - PHASE 3

SECTION 21-00231-03-SW
FAU ROUTE 8995/8961 (ROCK SPRINGS DR./COLLEGE AVE.)
PROJECT 232C(907)
CITY OF ALTON, ILLINOIS
MADISON COUNTY
JOB C-98-028-24

AGENCIES KNOWN TO HAVE FACILITIES WITHIN THE PROJECT AREA ARE AS FOLLOWS:

ILLINOIS AMERICAN WATER CO. 4436 INDUSTRIAL DRIVE ALTON, ILLINOIS 62002 (618) 466-2131 (WATER) (618) 239-3258 (SEWER)

AT&T COMMUNICATIONS 203 GOETHE COLLINSVILLE, IL 62234 (618) 346-6400 (618) 346-6426

AMEREN ILLINOIS 700 OAKWOOD AVENUE ALTON, ILLINOIS 62002 (618) 463-4030 (ELECTRIC) (618) 463-4027 (GAS)

ALTON PUBLIC WORKS 2 EMMA KAUS LANE ALTON, ILLINOIS 62002 (618) 466-3530

CHARTER COMMUNICATIONS 4767 SIGNATURE INDUSTRIAL DRIVE EDWARDSVILLE, IL 62025 (618) 779-4179

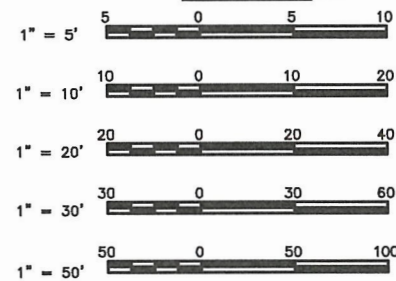
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HIGHWAY STANDARDS

000001-08	542301-03	701006-05
001001-02	601001-05	701011-04
001006	602306-03	701301-04
280001-07	602701-02	701501-06
420001-10	604006-05	701801-06
420701-03	604021-04	701901-08
424001-11	604036-03	720001-01
424006-05	606001-08	720006-04
424011-04	606101-05	728001-01
442101-09	630001-12	876001-04

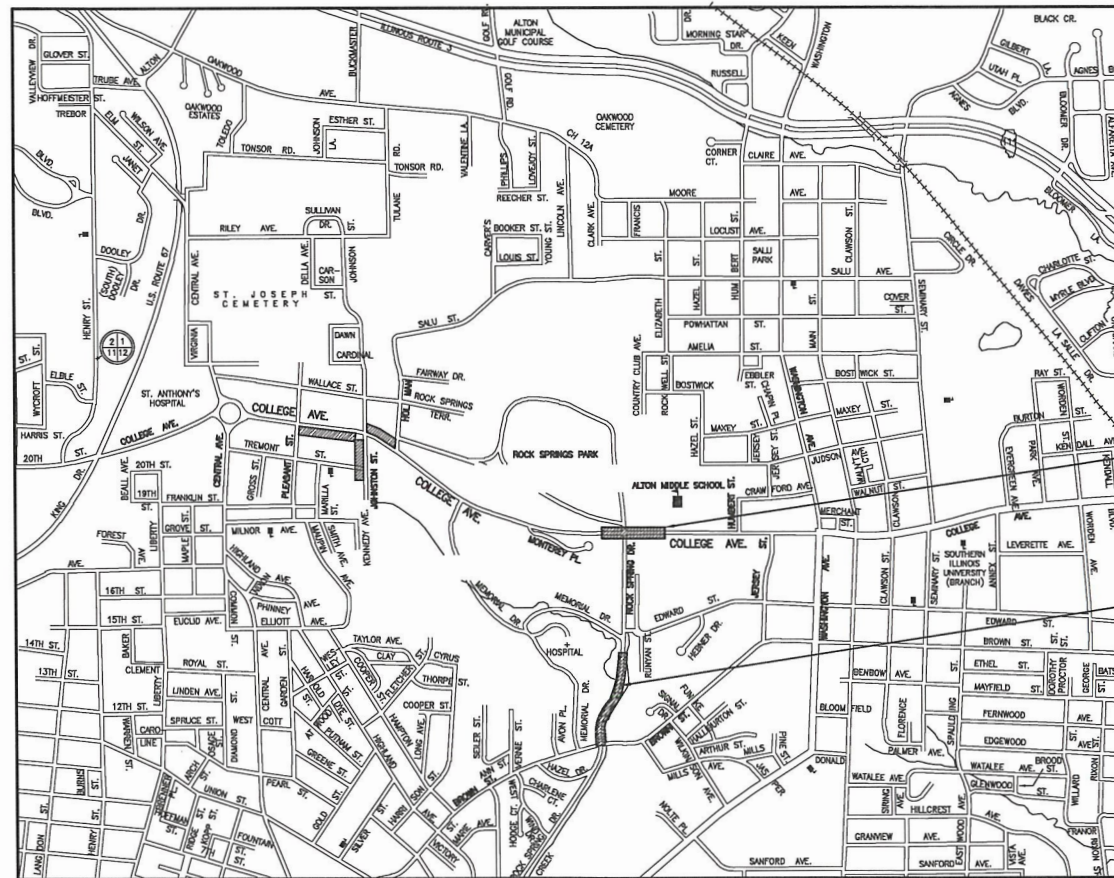
SCALES



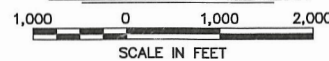
FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS THE ABOVE SCALES MAY BE USED.

FUNCTIONAL CLASSIFICATION, ADT, AND SPEED

COLLEGE AVENUE - MINOR ARTERIAL, 8,850 (2021)/9030 (2023), 30 M.P.H.
ROCK SPRINGS DRIVE - MAJOR COLLECTOR, 2,550 (2021)/2,600 (2023), 30 M.P.H.



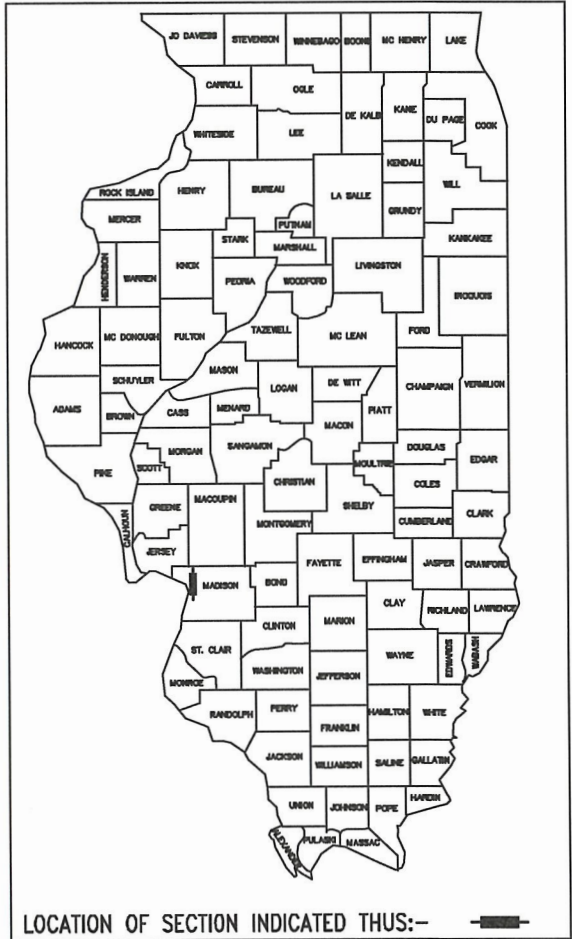
LOCATION MAP



GROSS LENGTH = 1,529.5 FEET = 0.289 MILES
NET LENGTH = 1,529.5 FEET = 0.289 MILES
ROCK SPRINGS DR. = 1,111.00 FEET = 0.210 MILES
COLLEGE AVE. = 418.50 FEET = 0.079 MILES



Sheppard Morgan & Schwaab, Inc.
CONSULTING ENGINEERS & LAND SURVEYORS
215 Market Street
Alton, Illinois 62002
P.O. Box 38
618/462-9755



LOCATION OF SECTION INDICATED THIS:-

COLLEGE AVE.
BEGIN STA. 42+76.70
END STA. 46+95.20

ROCK SPRINGS DR.
BEGIN STA. 38+14.00
END STA. 49+25.00

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

APPROVED: *[Signature]* 20 23
MAYOR

PASSED: 212 20 23
DISTRICT 8 ENGINEER OF LOCAL ROADS & STREETS

RELEASING FOR BID
BASED UPON LIMITED
REVIEW: *[Signature]* 212 20 23
REGIONAL ENGINEER

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
PRINTED BY AUTHORITY OF THE STATE OF ILLINOIS



DATE SIGNED 01-26-2023
EXPIRATION DATE 11-30-2023

STANDARD SYMBOL LEGEND

EXISTING

- EXISTING GUY POLE --○
- EXISTING LIGHT POLE --X
- EXISTING POWER POLE --○
- EXISTING TELEPHONE POLE --○
- EXISTING GUY WIRE --←
- EXISTING TRANSMISSION TOWER --□
- EXISTING ELECTRIC SPLICE BOX --□^E
- EXISTING TELEPHONE SPLICE BOX --△
- EXISTING CABLE SPLICE BOX --□^{TV}
- EXISTING WATER HYDRANT --FH
- EXISTING GAS METER --G
- EXISTING WATER METER --W
- EXISTING WATER VALVE --V
- EXISTING GAS VALVE --G
- EXISTING FIRE HYDRANT --FH
- EXISTING SANITARY MANHOLE TOP --◎
- EXISTING STORM MANHOLE TOP --○
- EXISTING TELEPHONE MANHOLE TOP --①
- EXISTING SANITARY CLEAN OUT --◎
- CONTROL POINT --△^{XXX}
- BENCHMARK --B.M.
- TEST PIT / NUMBER --T.P.# X
- BORING / NUMBER --B.# X
- RIGHT-OF-WAY MARKER --M
- AXLE FOUND --○^{AXLE}
- BOLT FOUND --○^{BOLT}
- CHISELED "X" FOUND --X
- PIN FOUND --○^{IP}
- PINCH PIPE FOUND --○^{IP}
- PK NAIL FOUND --○^{PK}
- RAILROAD SPIKE FOUND --○^{RR}
- STONE FOUND --□^{STONE}
- BRASS MONUMENT FOUND --○^{MON}
- IRON PIPE FOUND --○^{IP}
- MONUMENT FOUND --□^{MON}
- REBAR FOUND --○^{RBR}
- EXISTING MAILBOX --F
- EXISTING FENCE POST --F
- EXISTING GATE POST --F
- EXISTING FLAG POLE --F
- EXISTING GUARD POST --○^{GP}
- EXISTING ADVERTISING SIGN --T
- EXISTING TRAFFIC SIGN --T
- EXISTING PARKING METER --P
- EXISTING RAILROAD MILE POST --MP
- EXISTING RAILROAD SIGNAL CONTROLLER --M
- EXISTING RAILROAD CROSSING GATE --M
- EXISTING TRAFFIC SIGNAL --T
- EXISTING TRAFFIC SIGNAL CONTROLLER --M
- EXISTING HANDHOLE --H
- EXISTING DOUBLE HANDHOLE --H
- EXISTING MAST ARM BASE --M
- EXISTING DECIDUOUS TREE / SIZE --XX"
- EXISTING EVERGREEN TREE / SIZE --XX"
- EXISTING STUMP / SIZE --XX"
- EXISTING BUSH --B
- EXISTING SHRUB --S
- EXISTING TREE TO BE REMOVED --XX"

PROPOSED

- PROPOSED GUY POLE --○
- PROPOSED LIGHT POLE --X
- PROPOSED POWER POLE --○
- PROPOSED TELEPHONE POLE --○
- PROPOSED GUY WIRE --←
- PROPOSED TRANSMISSION TOWER --□
- PROPOSED ELECTRIC SPLICE BOX --□^E
- PROPOSED TELEPHONE SPLICE BOX --△
- PROPOSED CABLE SPLICE BOX --□^{TV}
- PROPOSED WATER HYDRANT --FH
- PROPOSED GAS METER --G
- PROPOSED WATER METER --W
- PROPOSED WATER VALVE --V
- PROPOSED GAS VALVE --G
- PROPOSED FIRE HYDRANT --FH
- PROPOSED SANITARY MANHOLE TOP --◎
- PROPOSED STORM MANHOLE TOP --○
- PROPOSED TELEPHONE MANHOLE TOP --①
- PROPOSED SANITARY CLEAN OUT --◎
- PROPOSED MAILBOX --F
- PROPOSED GUARD POST --GP
- PROPOSED ADVERTISING SIGN --T
- PROPOSED TRAFFIC SIGN --T
- PROPOSED RAILROAD MILE POST --MP
- PROPOSED RAILROAD SIGNAL CONTROLLER --M
- PROPOSED RAILROAD CROSSING GATE --M
- PROPOSED TRAFFIC SIGNAL --T
- PROPOSED TRAFFIC SIGNAL CONTROLLER --M
- PROPOSED HANDHOLE --H
- PROPOSED DOUBLE HANDHOLE --H
- PROPOSED MAST ARM BASE --M
- PROPOSED DECIDUOUS TREE / SIZE --XX"
- PROPOSED EVERGREEN TREE / SIZE --XX"
- PROPOSED BUSH --B
- PROPOSED PLANT --P
- PROPOSED EDGE OF PAVEMENT ELEVATION -- + 512.00 EP
- PROPOSED PAVEMENT ELEVATION -- + 505.50 P
- PROPOSED CURB ELEVATION -- + 550.25 TC
- PROPOSED SIDEWALK ELEVATION -- + 515.15 SW
- PROPOSED FLOWLINE ELEVATION -- + 501.58 FL

SIDEWALK LEGEND

- RAMP -- MAX. SLOPE = 12:1 OR MAX. LENGTH REQUIRED = 15'
- DETECTABLE WARNING
- L -- LANDING -- MIN. SIZE 4' X 4' MAX. SLOPE IN EITHER DIRECTION = 2.0%
- BT -- BLENDED TRANSITION -- MAX. CROSS SLOPE = 2.0%, MAX. RUNNING SLOPE = 5.0%
- T -- TRANSITION TO MEET EXISTING SIDEWALK
- P -- PASSING SPACE -- MIN. SIZE 5' X 5', MAX CROSS SLOPE = 2.0%

STANDARD LINE TYPE LEGEND

EXISTING FEATURES

- EXISTING CENTERLINE
- EXISTING BASELINE
- EXISTING RIGHT-OF-WAY
- EXISTING SECTION LINE
- EXISTING PROPERTY LINE P/L
- EXISTING EASEMENT
- EXISTING SETBACK
- EXISTING MAJOR CONTOUR 500
- EXISTING MINOR CONTOUR 501
- EXISTING DITCH
- EXISTING POND, LAKE, BODY OF WATER, ETC.
- EXISTING RAILROAD
- EXISTING BRUSH / HEDGE / TREE LINE
- EXISTING FENCE
- EXISTING GUARDRAIL
- EXISTING CULVERT
- EXISTING STORM SEWER
- EXISTING SANITARY SEWER
- EXISTING FORCEMAIN
- EXISTING WATER
- EXISTING UNDERGROUND ELECTRIC
- EXISTING GAS
- EXISTING UNDERGROUND TELEPHONE
- EXISTING FIBER OPTIC
- EXISTING UNDERGROUND CABLE TV
- EXISTING OVERHEAD TELEPHONE
- EXISTING OVERHEAD ELECTRIC
- EXISTING OVERHEAD CABLE TV

PROPOSED FEATURES

- PROPOSED CENTERLINE
- PROPOSED BASELINE
- PROPOSED RIGHT-OF-WAY
- PROPOSED LOT LINE
- PROPOSED EASEMENT
- PROPOSED CONSTRUCTION EASEMENT OR TEMPORARY USE PERMIT
- PROPOSED CONSTRUCTION LIMITS
- PROPOSED SETBACK
- PROPOSED MAJOR CONTOUR 500
- PROPOSED MINOR CONTOUR 501
- PROPOSED DITCH
- PROPOSED POND, LAKE, BODY OF WATER, ETC.
- PROPOSED RAILROAD
- PROPOSED FENCE
- PROPOSED GUARDRAIL
- PROPOSED PERIMETER EROSION BARRIER
- PROPOSED CULVERT
- PROPOSED STORM SEWER
- PROPOSED SANITARY SEWER
- PROPOSED FORCEMAIN
- PROPOSED WATER
- PROPOSED UNDERGROUND ELECTRIC
- PROPOSED GAS
- PROPOSED UNDERGROUND TELEPHONE
- PROPOSED FIBER OPTIC
- PROPOSED UNDERGROUND CABLE TV
- PROPOSED OVERHEAD TELEPHONE
- PROPOSED OVERHEAD ELECTRIC
- PROPOSED OVERHEAD CABLE TV

ABBREVIATIONS

ADT	AVERAGE DAILY TRAFFIC	OL	OPEN LID
BAK	BACK	PC	POINT OF CURVE
BM	BENCH MARK	PE	PRIVATE ENTRANCE
BV/CE	BEGIN VERTICAL CURVE ELEVATION	PI	POINT OF INTERSECTION
BV/CS	BEGIN VERTICAL CURVE STATION	PK	PK NAIL
CB&G	CURB AND GUTTER	PP	POWER POLE
C/L	CENTER LINE	PRCF	PRECAST REINFORCED CONCRETE FLARED
CE	COMMERCIAL ENTRANCE	PT	POINT OF TANGENT
CI	CAST IRON	PVC	POINT OF VERTICAL CURVE
CL	CLOSED LID	R	RADIUS
CM	CONCRETE MONUMENT	RER	REBAR
COMP	CORRUGATED METAL PIPE	RDMH	RESTRICTED DEPTH MANHOLE
CONC	CONCRETE	ROW	RIGHT OF WAY
CT	CRIMP TOP PIPE	RR	RAILROAD
CU YD	CUBIC YARD	RRPM	RAISED REFLECTIVE PAVEMENT MARKER
DE	DRAINAGE EASEMENT	RT	RIGHT
DIP	DUCTILE IRON PIPE	S	SOUTH
E	EAST	SE	SOUTHEAST
ELEV	ELEVATION	SL	SECTION LINE
EP	EDGE OF PAVEMENT	SS1	STORM SEWER TYPE 1
EQN STA	EQUATION STATION	SS2	STORM SEWER TYPE 2
ES	EDGE OF SHOULDER	SS3	STORM SEWER TYPE 3
FE	FIELD ENTRANCE	STA	STATION
FH	FIRE HYDRANT	SW	SOUTHWEST
FL	FLOWLINE	TB	TRENCH BACKFILL
FT	FOOT	TBR	TO BE REMOVED
FWD	FORWARD	TC	TOP OF CURB
GP	GUARD POST	TCE	TEMPORARY CONSTRUCTION EASEMENT
HDPE	HIGH DENSITY POLYETHYLENE	TPM	TEMPORARY PAVEMENT MARKING
HMA	HOT-MIX ASPHALT	TPPM	THERMOPLASTIC PAVEMENT MARKING
IP	IRON PIPE	TUP	TEMPORARY USE PERMIT
LT	LEFT	TY	TYPE
MON	MONUMENT	TYP	TYPICAL
MP	MILE PIPE	VCC	VERTICAL CURVE
N	NORTH	VCP	VITRIFIED CLAY PIPE
NE	NORTHEAST	W	WEST
NW	NORTHWEST	WMO	WATER MAIN QUALITY
OB&C	OIL AND CHIP		

GENERAL NOTES

- THIS PROJECT SHALL BE CONSTRUCTED ACCORDING TO THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" ADOPTED JANUARY 1, 2022 AND THE SPECIAL PROVISIONS OF THE PROJECT CONTRACT.
- THE PLANS SHOW THE APPROXIMATE LOCATION OF KNOWN UTILITIES, BUT DO NOT SHOW HOUSE OR SERVICE CONNECTIONS. UTILITY INFORMATION PROVIDED IS BASED ON INFORMATION OBTAINED FROM UTILITY COMPANIES AND SHALL NOT BE CONSIDERED TO BE ACCURATE OR COMPLETE. THE CONTRACTOR SHALL USE ALL DUE PRECAUTION NOT TO DAMAGE OR DISTURB ANY UTILITIES AND THE ENTIRE COST OF MAKING REPAIRS TO, OR REPLACEMENT OF, ANY DAMAGED LINE WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- PROPOSED ELEVATIONS SHOWN ON THE PLANS AS +/- ARE APPROXIMATE, EXACT ELEVATIONS SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD. IF APPLICABLE, ELEVATIONS SHALL BE DETERMINED PRIOR TO FABRICATION OF THE DRAINAGE STRUCTURES.
- FOR SIMPLICITY, STORM SEWER LENGTHS SHOWN ON THE PLANS ARE FROM CENTER TO CENTER OF STRUCTURES. ACTUAL PIPE REQUIRED WILL BE LESS. MEASUREMENT FOR PAYMENT PURPOSES SHALL BE ACCORDING TO ARTICLE 550.09 OF THE STANDARD SPECIFICATIONS.
- THE OFFSETS FOR ALL ROUND INLETS AND MANHOLES ARE GIVEN TO THE CENTER OF THE OPENING REQUIRED FOR THE FRAME AND GRATE OR LID THAT IS SPECIFIED. THE OFFSETS FOR ALL SQUARE BOX INLETS AND SQUARE FLUSH INLETS ARE GIVEN TO THE CENTER OF THE BASE OF THE STRUCTURE. OFFSETS FOR ALL CONCRETE FLARED END SECTIONS ARE GIVEN TO THE CENTER OF THE END OF THE END SECTION.
- SEE TYPICAL SECTION SHEETS FOR TYPICAL SECTION NOTES.
- PLAN QUANTITIES FOR HOT-MIX ASPHALT ITEMS WERE CALCULATED BASED ON USING 112 LBS. / SQ. YD. / IN.
- THE CONTRACTOR SHALL EXERCISE CARE IN THE TREE REMOVAL OPERATIONS AND SHALL TAKE PRECAUTIONS TO REMOVE ONLY THOSE TREES THAT ARE NECESSARY FOR THE CONSTRUCTION OF THIS PROJECT AS INDICATED BY THE ENGINEER, ALL OTHER TREES SHALL REMAIN UNDAAGED.
- UNLESS OTHERWISE PROVIDED FOR HEREIN, THE CONTRACTOR SHALL PROTECT AND RESTORE EXISTING TRAFFIC SIGNS IN ACCORDANCE WITH ARTICLE 107.25 OF THE STANDARD SPECIFICATIONS. AT LOCATIONS WHERE NEW SIGNS REPLACE EXISTING SIGNS, THE CONTRACTOR SHALL REMOVE THE EXISTING SIGNS AND DELIVER THEM TO THE LOCAL STREET DEPARTMENT LOCATED AT 2 EMMIE KAUS LANE, ALTON, ILLINOIS. THE COST OF THIS WORK WILL BE CONSIDERED AS INCLUDED IN THE UNIT BID PRICES FOR SIGN REMOVAL AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- AT LOCATIONS WHERE CONCRETE CURB, TYPE B OR COMBINATION CONCRETE CURB AND GUTTER IS REMOVED AND REPLACED ADJACENT TO AREAS WHERE THE HOT MIX ASPHALT RESURFACING EXTENDS TO THE CURB, DEPRESSED CURBS FOR DRIVEWAYS OR CURB RAMPS SHALL BE PLACE AT THE PROPER HEIGHT REQUIRED TO MEET THE PROPOSED FINAL PAVEMENT SURFACE.
- A QUANTITY OF 1 CU YD HAS BEEN INCLUDED FOR ROCK EXCAVATION IN THE EVENT IT IS ENCOUNTERED IN THE AREA OF STA. 42+50 TO STA. 43+00 ALONG ROCK SPRINGS DRIVE.

COMMITMENTS

TREES (3" IN DIAMETER AT BREAST HEIGHT OR GREATER) SHALL NOT BE CLEARED FROM APRIL 1 THROUGH SEPTEMBER 30 OF ANY GIVEN YEAR. THE CITY WILL REMOVE OR FALL THE TREES WITHIN THE CONSTRUCTION LIMITS. SEE SPECIAL PROVISIONS FOR CLEARING, SPECIAL.

BENCHMARK INFORMATION

SURVEY CONTROL POINTS			
VERTICAL CONTROL (BENCH MARKS)			
BENCH MARK	LOCATION	ELEVATION	DESCRIPTION
13091	49+38.69, 29.34' LT.	459.59	CUT "X" ON TOP OF HEADWALL
16200	45+21.64, 42.23' RT.	477.02	CUT "X" ON TOP OF HEADWALL

HORIZONTAL CONTROL				
CONTROL POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
CP #18815	812195.66	2299171.31	458.43	STA. 38+41.53, 26.73' RT. ROCK SPRINGS DR.
CP #19257	812253.76	2299156.65	456.02	STA. 39+00.36, 15.30' RT. ROCK SPRINGS DR.
CP #18814	812329.71	2299124.47	454.19	STA. 39+75.75, 16.53' LT. ROCK SPRINGS DR.
CP #18813	812534.90	2299258.25	451.34	STA. 42+20.73, 23.67' RT. ROCK SPRINGS DR.
CP #19258	812647.33	2299325.57	452.33	STA. 43+49.09, 18.98' RT. ROCK SPRINGS DR.
CP #18812	812758.59	2299370.50	452.17	STA. 44+65.89, 17.60' RT. ROCK SPRINGS DR.
CP #19259	812935.88	2299404.90	453.37	STA. 46+42.29, 21.76' RT. ROCK SPRINGS DR.
CP #18811	813007.80	2299408.92	454.54	STA. 47+14.33, 21.21' RT. ROCK SPRINGS DR.
CP #18600	813178.27	2299413.90	457.67	STA. 48+84.76, 15.33' RT. ROCK SPRINGS DR.
CP #20023	814459.11	2299324.95	481.17	STA. 43+54.13, 7.15' LT. COLLEGE AVE.
CP #6332	814413.92	2299312.76	482.47	STA. 43+40.76, 37.70' RT. COLLEGE AVE.
CP #16115	814457.77	2299653.05	479.54	STA. 46+82.13, 4.42' LT. COLLEGE AVE.

* ELEVATIONS SHOULD BE CHECKED FROM A BENCHMARK.

REVISIONS									
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SMS Sheppard, Morgan & Schwab, Inc.
CONSULTING ENGINEERS AND LAND SURVEYORS
2.15 Market Street, Alton, IL 62002 618/462-9755 E-mail: mail@smsengineers.com
DESIGN FIRM # 184-000992

CITY OF ALTON, ILLINOIS
SECTION 21-00231-03-SW
SAFE ROUTES TO SCHOOL - PHASE 3
GENERAL NOTES, LEGENDS, CONTROL POINTS AND COMMITMENTS

CONTRACT NO.	97801
F.A.U. RTE.	8995/8961
REF. BK.	PG.
JOB NO.	500674
DSN. BY:	DEG
DWN. BY:	CDP
CHK. BY:	DEG
DATE:	JANUARY, 2023

SUMMARY OF QUANTITIES

CONSTRUCTION TYPE CODE		0028	
CODE NO.	ITEM	UNIT	QUANTITY
20200100	EARTH EXCAVATION	CU YD	480
20200200	ROCK EXCAVATION	CU YD	1
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	10
20800150	TRENCH BACKFILL	CU YD	20
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	24
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	24
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	24
25100115	MULCH, METHOD 2	ACRE	0.50
25100630	EROSION CONTROL BLANKET	SQ YD	459
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	27
28000400	PERIMETER EROSION BARRIER	FOOT	188
28000500	INLET AND PIPE PROTECTION	EACH	11
28100205	STONE RIPRAP, CLASS A3	TON	75
28100207	STONE RIPRAP, CLASS A4	TON	36
28200200	FILTER FABRIC	SQ YD	357
31100300	SUBBASE GRANULAR MATERIAL, TYPE A 4"	SQ YD	654
31101000	SUBBASE GRANULAR MATERIAL, TYPE B	TON	20
40500290	BITUMINOUS MATERIALS (TACK COAT)	POUND	50
40800050	INCIDENTAL HOT-MIX ASPHALT SURFACING	TON	19
42000060	WELDED WIRE REINFORCEMENT	SQ YD	80
42400100	PORTLAND CEMENT CONCRETE SIDEWALK 4 INCH	SQ FT	5,833
42400300	PORTLAND CEMENT CONCRETE SIDEWALK 6 INCH	SQ FT	3,389
42400800	DETECTABLE WARNINGS	SQ FT	105
44000100	PAVEMENT REMOVAL	SQ YD	119
44000300	CURB REMOVAL	FOOT	151
44000600	SIDEWALK REMOVAL	SQ FT	6,723

CONSTRUCTION TYPE CODE		0028	
CODE NO.	ITEM	UNIT	QUANTITY
44200934	CLASS B PATCHES, TYPE II, 8 INCH	SQ YD	14
44200942	CLASS B PATCHES, TYPE III, 8 INCH	SQ YD	80
44201298	DOWEL BARS 1 1/4"	EACH	72
44213200	SAW CUTS	FOOT	124
44213204	TIE BARS 3/4"	EACH	10
50800105	REINFORCEMENT BARS	POUND	520
52200900	CONCRETE STRUCTURES (RETAINING WALL)	CU YD	4.4
54213657	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 12"	EACH	1
54213660	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 15"	EACH	1
54213663	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 18"	EACH	1
550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	FOOT	83
550A0070	STORM SEWERS, CLASS A, TYPE 1 15"	FOOT	30
550A0380	STORM SEWERS, CLASS A, TYPE 2 18"	FOOT	50
55100500	STORM SEWER REMOVAL 12"	FOOT	61
55100700	STORM SEWER REMOVAL 15"	FOOT	86
60108100	PIPE UNDERDRAINS 4" (SPECIAL)	FOOT	844
60255500	MANHOLES TO BE ADJUSTED	EACH	2
60240301	INLETS, TYPE B, TYPE 8 GRATE	EACH	3
60262700	INLETS TO BE RECONSTRUCTED	EACH	1
60500060	REMOVING INLETS	EACH	2
60600605	CONCRETE CURB, TYPE B	FOOT	68
* 63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	31
63200310	GUARDRAIL REMOVAL	FOOT	25
67100100	MOBILIZATION	L SUM	1
* 72000100	SIGN PANEL - TYPE 1	SQ FT	33
* 72800100	TELESCOPING STEEL SIGN SUPPORT	FOOT	50

CONSTRUCTION TYPE CODE		0028	
CODE NO.	ITEM	UNIT	QUANTITY
* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	42
* 78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	159
* 78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	18
* 78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	60
* 78001130	PAINT PAVEMENT MARKING - LINE 6"	FOOT	46
* 78001150	PAINT PAVEMENT MARKING - LINE 12"	FOOT	22
X0325279	CLASS SI CONCRETE (MISCELLANEOUS)	CU YD	0.1
X0326441	STONE BEDDING MATERIAL	TON	21
X1200108	INLET BOX, SPECIAL	EACH	4
* X1400326	RECTANGULAR RAPID FLASHING BEACON ASSEMBLY (COMPLETE)	EACH	2
X2010505	CLEARING, SPECIAL	L SUM	1
X2501010	SEEDING, CLASS 2 (MODIFIED)	ACRE	0.50
X4200412	PORTLAND CEMENT CONCRETE PAVEMENT 12", SPECIAL	SQ YD	161
X4400196	HOT-MIX ASPHALT SURFACE REMOVAL, SPECIAL	SQ YD	51
X4401198	HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH	SQ YD	112
X6024240	INLETS, SPECIAL	EACH	3
X6025600	MANHOLES TO BE ADJUSTED (SPECIAL)	EACH	1
X6061005	CONCRETE CURB, TYPE B (SPECIAL)	FOOT	1,099
X6061460	PAVED DITCH (SPECIAL)	FOOT	168
X6062700	CONCRETE GUTTER, TYPE A (SPECIAL)	FOOT	617
* X6300225	SINGLE END SECTION	EACH	1
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1
X7240300	SIGN REMOVAL	EACH	2
* X7350010	SIGN SUPPORT BRACKET	EACH	1
Z0056648	STORM SEWERS, TYPE 1, WATER MAIN QUALITY PIPE, 12"	FOOT	117
LR420029	PORTLAND CEMENT CONCRETE PAVEMENT 8" (SPECIAL)	SQ YD	518

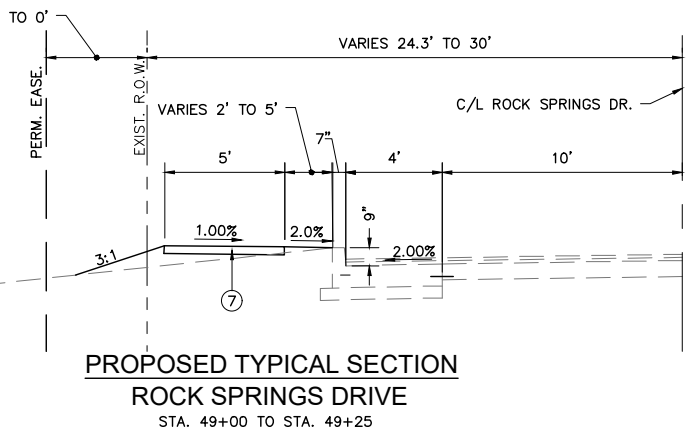
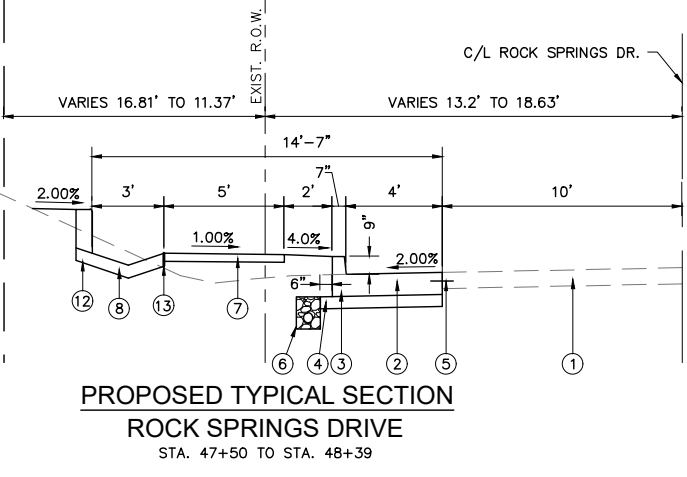
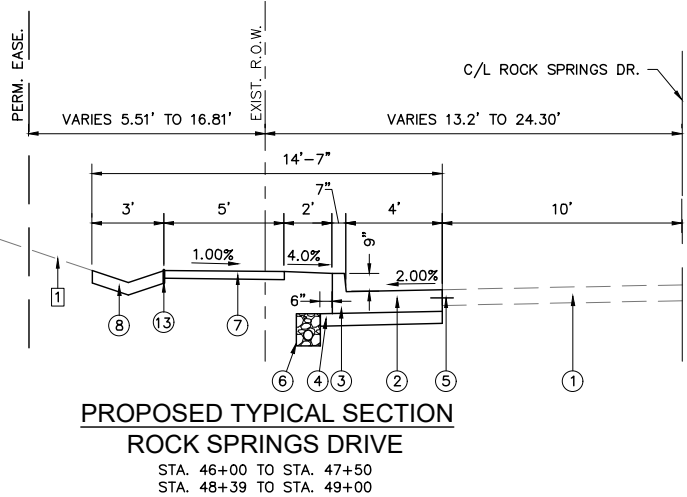
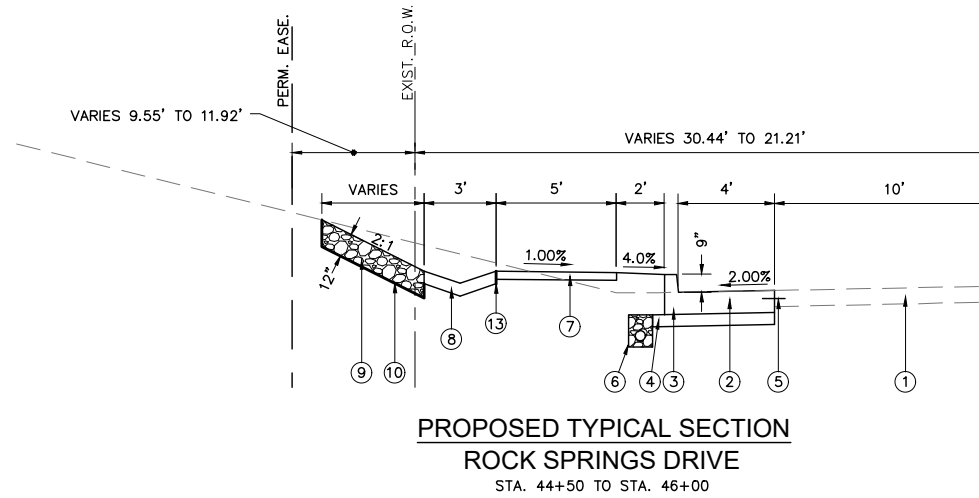
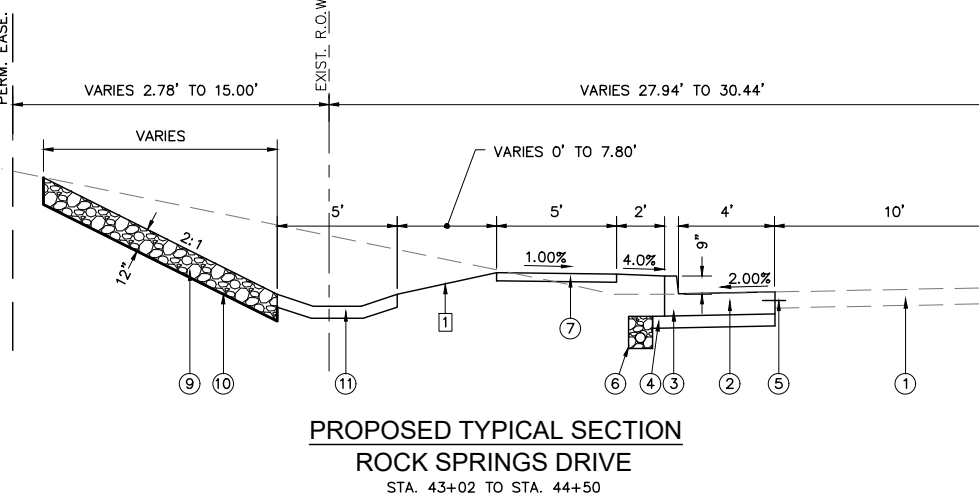
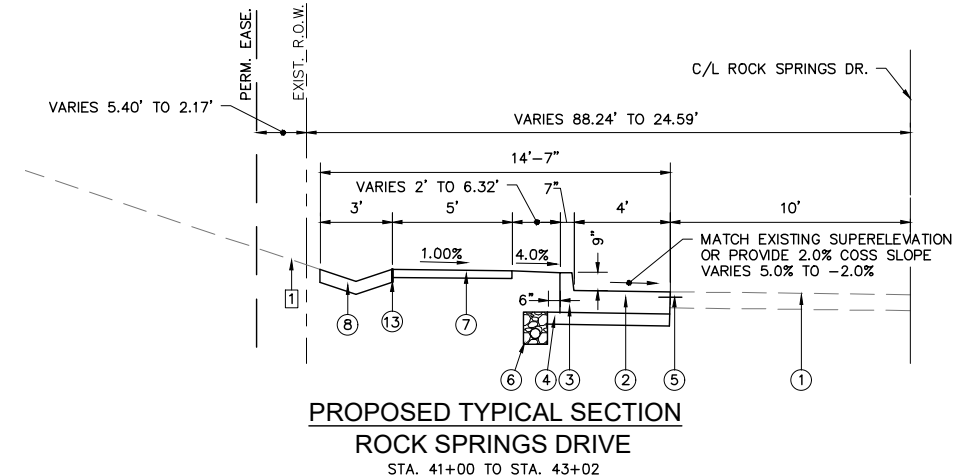
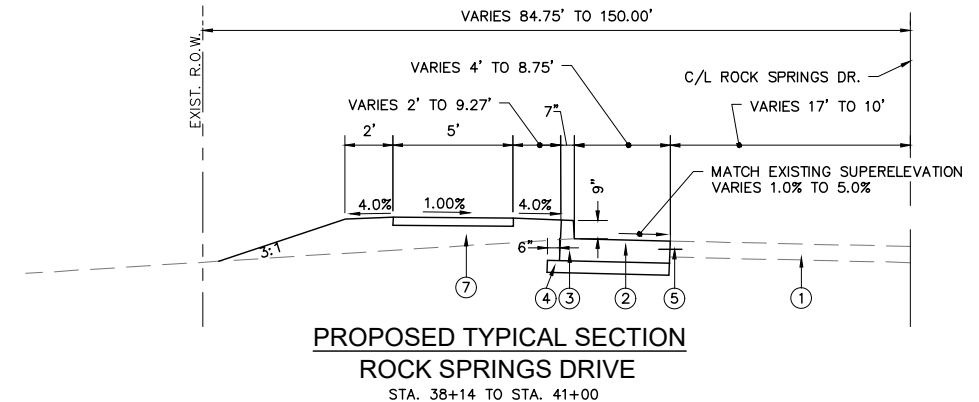
* DENOTES SPECIALTY ITEM

REVISIONS

SMS ENGINEERS
 Sheppard, Morgan & Schwab, Inc.
 CONSULTING ENGINEERS AND LAND SURVEYORS
 235 Market Street, Alton, IL 62002 618/462-9755 E-mail: mail@smsengineers.com
 DESIGN FIRM # 184-000992

CITY OF ALTON, ILLINOIS
 SECTION 21-00231-03-SW
 SAFE ROUTES TO SCHOOL - PHASE 3
 SUMMARY OF QUANTITIES

CONTRACT NO. 97801
 F.A.U. RTE. 8995/8961
 REF. BK. PG.
 JOB NO. 500674
 DSN. BY: DEG
 OWN. BY: CDP
 CHK. BY: DEG
 DATE: JANUARY, 2023
 SCALE: NONE
 SHEET 3 OF 35

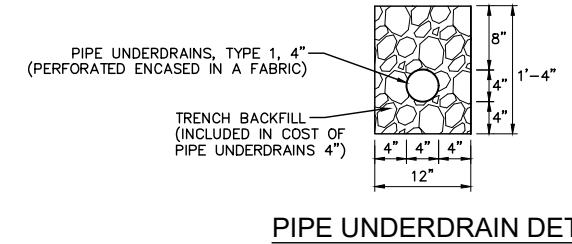
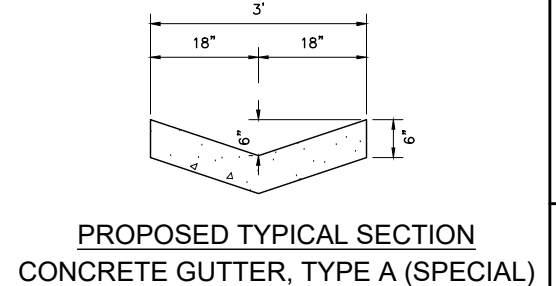


PAVING LEGEND

- ① EXISTING CONCRETE PAVEMENT 8"±
- ② PROPOSED PCC PAVEMENT 8" (SPECIAL)
- ③ PROPOSED CONCRETE CURB, TYPE B (SPECIAL) 9" HIGH CURB POURED INTEGRAL WITH ②
- ④ PROPOSED SUB-BASE GRANULAR MATERIAL, TYPE A 4"
- ⑤ PROPOSED #6 EPOXY COATED TIE BARS @ 36" CTS. INCLUDED IN THE COST OF PCC PAVEMENT 8" (SPECIAL)
- ⑥ PROPOSED PIPE UNDERDRAINS 4" (SPECIAL) SEE DETAIL.
- ⑦ PROPOSED PORTLAND CEMENT CONCRETE SIDEWALK 4 INCH
- ⑧ PROPOSED CONCRETE GUTTER, TYPE A (SPECIAL) SEE SEPARATE TYPICAL SECTION
- ⑨ PROPOSED STONE RIPRAP, CLASS A3
- ⑩ PROPOSED FILTER FABRIC
- ⑪ PROPOSED PAVED DITCH (SPECIAL) SEE SEPARATE TYPICAL SECTION
- ⑫ PROPOSED CONCRETE STRUCTURES (RETAINING WALL) SEE SEPARATE TYPICAL SECTION
- ⑬ PROPOSED 1/2" EXPANSION JOINT (INCLUDED IN THE COST OF CONCRETE GUTTER, TYPE A (SPECIAL))

TYPICAL SECTION NOTES

① SEE CROSS SECTIONS FOR GRADING

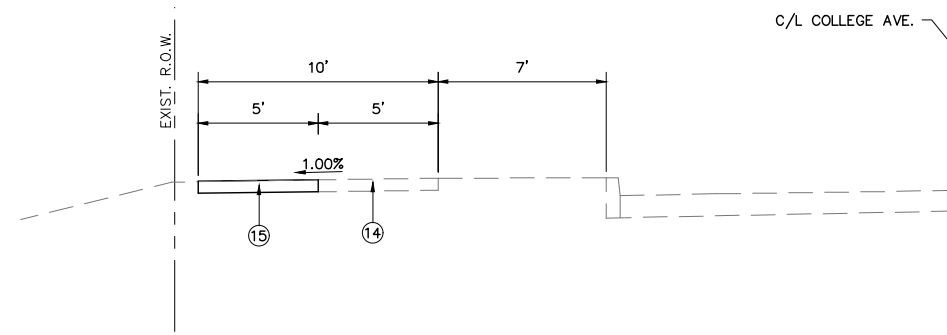


REVISIONS

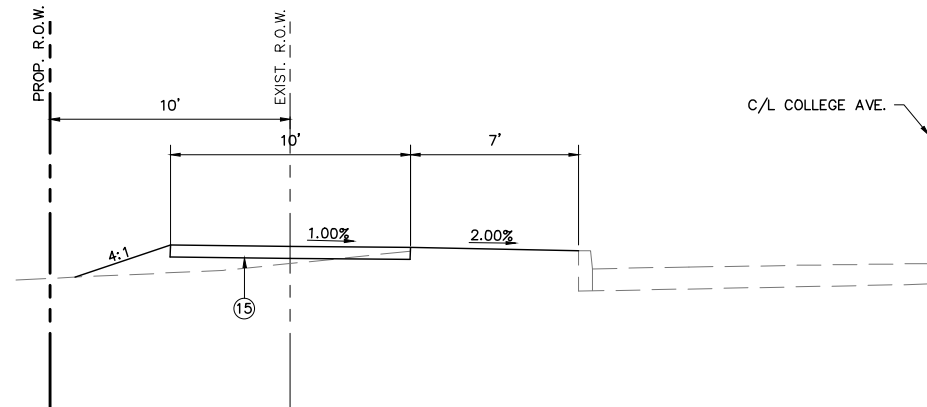
SMS Sheppard, Morgan & Schwab, Inc.
CONSULTING ENGINEERS AND LAND SURVEYORS
215 Market Street, Alton, IL 62002 618.465.9755 E-mail: mail@smsengineers.com
ENGINEERS DESIGN FIRM # 184-000992

CITY OF ALTON, ILLINOIS
SECTION 21-00231-03-SW
SAFE ROUTES TO SCHOOL - PHASE 3
TYPICAL SECTIONS

CONTRACT NO.	97801
F.A.U. RTE.	8995/8961
REF. BK.	PG.
JOB NO.	500674
DSN. BY:	DEG
DWN. BY:	CDP
CHK. BY:	DEG
DATE:	JANUARY, 2023
SCALE:	N/A
SHEET	4 OF 35



PROPOSED TYPICAL SECTION
COLLEGE AVENUE
 STA. 42+76.70 TO STA. 43+77



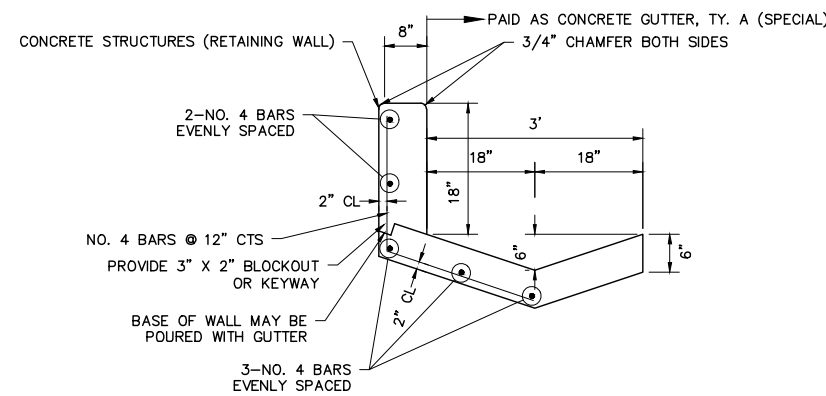
PROPOSED TYPICAL SECTION
COLLEGE AVENUE
 STA. 43+77 TO STA. 46+95.20

PAVING LEGEND

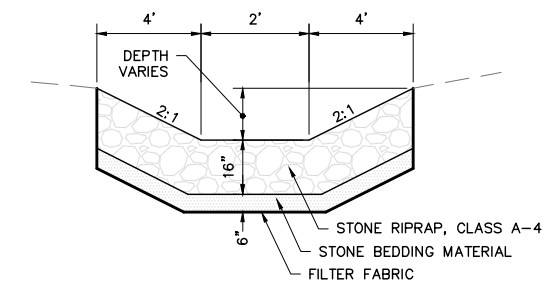
- ① EXISTING CONCRETE PAVEMENT 8"±
- ② PROPOSED PCC PAVEMENT 8" (SPECIAL)
- ③ PROPOSED CONCRETE CURB, TYPE B (SPECIAL) 9" HIGH CURB
POURED INTEGRAL WITH ②
- ④ PROPOSED SUB-BASE GRANULAR MATERIAL, TYPE A 4"
- ⑤ PROPOSED #6 EPOXY COATED TIE BARS @ 36" CTS.
INCLUDED IN THE COST OF PCC PAVEMENT 8" (SPECIAL)
- ⑥ PROPOSED PIPE UNDERDRAINS 4" (SPECIAL) SEE DETAIL.
- ⑦ PROPOSED PORTLAND CEMENT CONCRETE SIDEWALK 4 INCH
- ⑧ PROPOSED CONCRETE GUTTER, TYPE A (SPECIAL)
SEE SEPARATE TYPICAL SECTION
- ⑨ PROPOSED STONE RIPRAP, CLASS A3
- ⑩ PROPOSED FILTER FABRIC
- ⑪ PROPOSED PAVED DITCH (SPECIAL)
SEE SEPARATE DETAILS
- ⑫ PROPOSED CONCRETE STRUCTURES (RETAINING WALL)
SEE SEPARATE TYPICAL SECTION
- ⑬ PROPOSED 1/2" EXPANSION JOINT
(INCLUDED IN THE COST OF CONCRETE GUTTER, TYPE A (SPECIAL))

TYPICAL SECTION NOTES

- ☐ SEE CROSS SECTIONS FOR GRADING



PROPOSED TYPICAL SECTION
ROCK SPRINGS DRIVE RETAINING WALL
 STA. 47+50 TO STA. 48+39



TYPICAL SECTION
 STONE RIPRAP, CLASS A-4
 AT STORM SEWER OUTLETS

REVISIONS

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ENGINEERS DESIGN FIRM # 184-000992

CITY OF ALTON, ILLINOIS
 SECTION 21-00231-03-SW
 SAFE ROUTES TO SCHOOL - PHASE 3
 TYPICAL SECTIONS

CONTRACT NO.	97801
F.A.U. RTE.	8995/8961
REF. BK.	PG.
JOB NO.	500674
DSN. BY:	DEG
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CHK. BY:	DEG
DATE:	JANUARY, 2023
SCALE:	N/A
SHEET	5 OF 35

SIGN AND POST SCHEDULE

STATION	OFFSET	TYPE	DESCRIPTION	DIMENSIONS (IN.)		SIGN PANEL T1 (SQ FT)	TELES STL SIN SUPPORT (FOOT)	SIGN REMOVAL (EACH)	R R FL BEACON A COMP (EACH)	SIGN SUPPORT BRACKET (EACH)	COMMENT
				WIDTH	DEPTH						
COLLEGE AVENUE											
42+73.00	20.0' RT	S1-1	SCHOOL	36	36	9.0	17				
		W16-9P	AHEAD	24	12	2.0					
43+00.00	20.0' RT							1			
44+69.20	31.0' RT							1			
44+73.00	30.0' RT								1		SEE DETAILS IN PLANS.
44+81.50	24.5' LT								1		SEE DETAILS IN PLANS.
46+81.50	25.0' LT	S1-1	SCHOOL	36	36	9.0	17				
		W16-9P	AHEAD	24	12	2.0					
ROCK SPRINGS DRIVE											
38+34.00	24.5' RT	R1-1	STOP SIGN	30	30	6.3	16			1	
		D3-1	STREET NAME (ROCK SPRINGS DR)	36	8	2.0					MOUNTED WITH STOP SIGN
		D3-1	STREET NAME (BROWN ST)	36	8	2.0					MOUNTED WITH STOP SIGN
TOTAL						33	50	2	2	1	

- NOTES:
1. ALL SIGNS SHALL BE LOCATED PER HIGHWAY STANDARD 720006 UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
 2. STREET NAME SIGNS SHALL BE GREEN AND TEXT SHALL BE PRINTED ON BOTH SIDES. THE ACTUAL LENGTH REQUIRED SHALL BE AS NEEDED TO ACCOMMODATE THE TEXT AND SHALL BE DETERMINED BY THE SIGN MANUFACTURER
 3. ALL PEDESTRIAN SIGNS SHALL BE FLUORESCENT YELLOW-GREEN (FYG) COLOR AND TYPE "AZ" SHEETING.

PAVEMENT PATCHING SCHEDULE

STATION TO STATION	LANE	LENGTH (FEET)	WIDTH (FEET)	CLASS B PATCHES, 8 INCH (SQ. YD.)		TIE BARS 3/4" (EACH)	DOWEL BARS 1 1/4" (EACH)	WELDED WIRE REINFORCEMENT (SQ. YD.)	SAW CUTS (FEET)	
				TYPE II	TYPE III					
ROCK SPRINGS DRIVE										
41+99 Lt.	42+16 Lt.	SB	17	10		19.0	18	19.0	24	
42+03 Rt.	42+16 Rt.	NB	13	10		15.0	18	15.0	20	
43+87 Lt.	43+93 Lt.	SB	6	10	6.7		18		20	
43+87 Rt.	43+93 Rt.	NB	6	10	6.7		18		20	
46+42 Lt.	46+62 Lt.	SB	20	10		23.0	10	23.0	20	
46+42 Rt.	46+62 Rt.	NB	20	10		23.0		23.0	20	
TOTALS					14	80	10	72	80	124

EARTHWORK SCHEDULE

STATION	STATION	EARTH EXCAVATION (CU YD)	EARTH EXCAVATION ADJUSTED FOR SHRINKAGE (CU YD)	EMBANKMENT (CU YD)	EARTHWORK BALANCE (CU YD)
ROCK SPRINGS DRIVE					
38+14.00	49+25.00	441	331	317	14
COLLEGE AVENUE					
43+76.70	46+95.20	38	29	13	16
TOTAL		480	360	330	30

EARTHWORK NOTES:

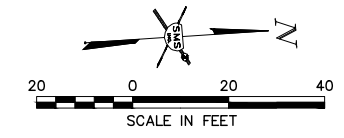
1. ESTIMATED SHRINKAGE FACTOR = 25%.

REVISIONS

SMS ENGINEERS
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 DESIGN FIRM # 184-000992

CITY OF ALTON, ILLINOIS
 SECTION 21-00231-03-SW
 SAFE ROUTES TO SCHOOL - PHASE 3
 SCHEDULES

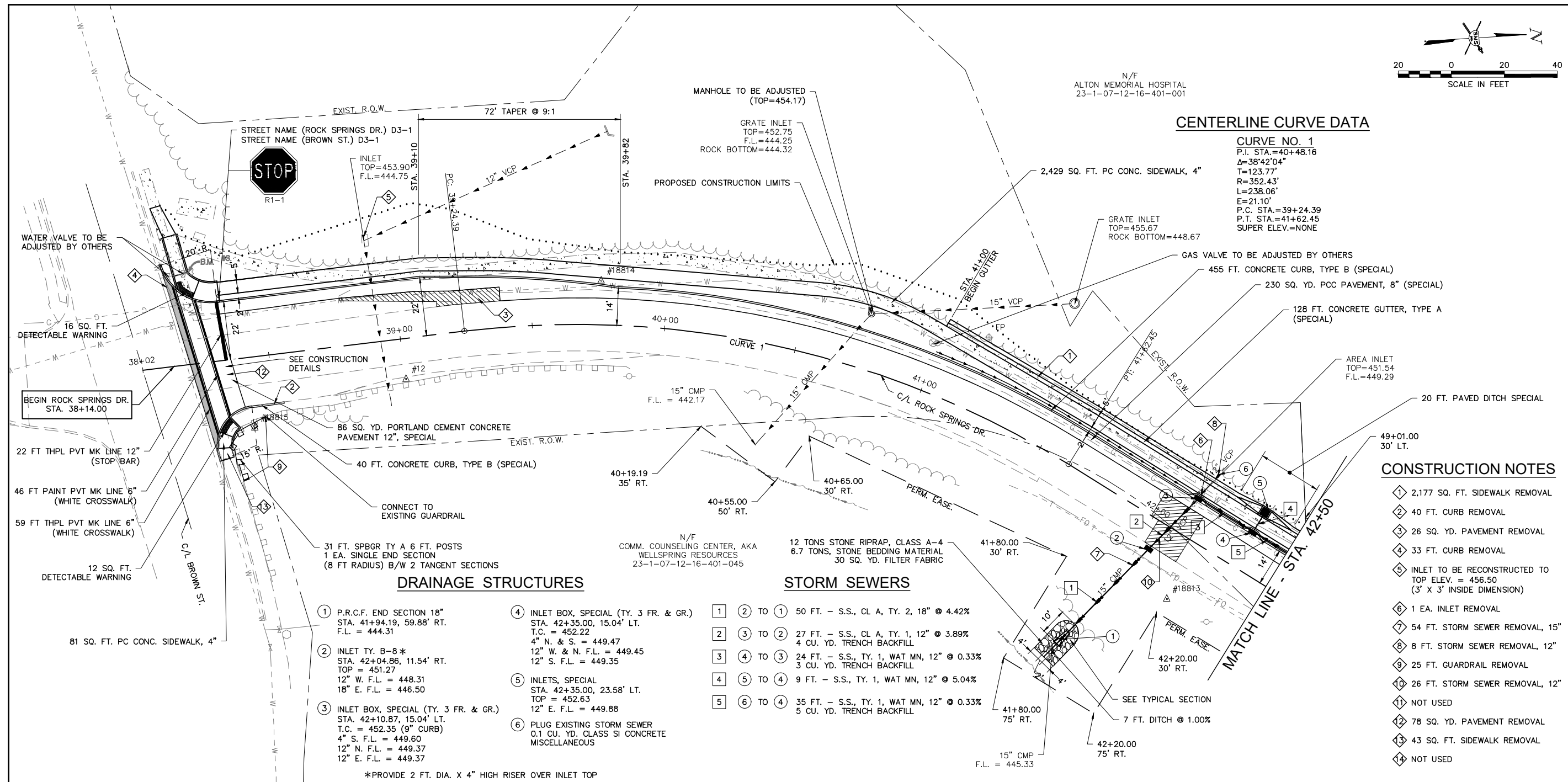
CONTRACT NO. 97801
 F.A.U. RTE. 8995/8961
 REF. BK. PG.
 JOB NO. 500674
 DSN. BY: DEG
 DWN. BY: CDP
 CHK. BY: DEG
 DATE: JANUARY, 2023
 SCALE: NONE
 SHEET 6 OF 35



N/F
ALTON MEMORIAL HOSPITAL
23-1-07-12-16-401-001

CENTERLINE CURVE DATA

CURVE NO. 1
 P.I. STA.=40+48.16
 $\Delta=38^{\circ}42'04''$
 $T=123.77'$
 $R=352.43'$
 $L=238.06'$
 $E=21.10'$
 P.C. STA.=39+24.39
 P.T. STA.=41+62.45
 SUPER ELEV.=NONE



DRAINAGE STRUCTURES

- ① P.R.C.F. END SECTION 18" STA. 41+94.19, 59.88' RT. F.L. = 444.31
- ② INLET TY. B-8 * STA. 42+04.86, 11.54' RT. TOP = 451.27
12" W. F.L. = 448.31
18" E. F.L. = 446.50
- ③ INLET BOX, SPECIAL (TY. 3 FR. & GR.) STA. 42+10.87, 15.04' LT. T.C. = 452.35 (9" CURB)
4" S. F.L. = 449.60
12" N. F.L. = 449.37
12" E. F.L. = 449.37
- ④ INLET BOX, SPECIAL (TY. 3 FR. & GR.) STA. 42+35.00, 15.04' LT. T.C. = 452.22
4" N. & S. = 449.47
12" W. & N. F.L. = 449.45
12" S. F.L. = 449.35
- ⑤ INLETS, SPECIAL STA. 42+35.00, 23.58' LT. TOP = 452.63
12" E. F.L. = 449.88
- ⑥ PLUG EXISTING STORM SEWER 0.1 CU. YD. CLASS SI CONCRETE MISCELLANEOUS

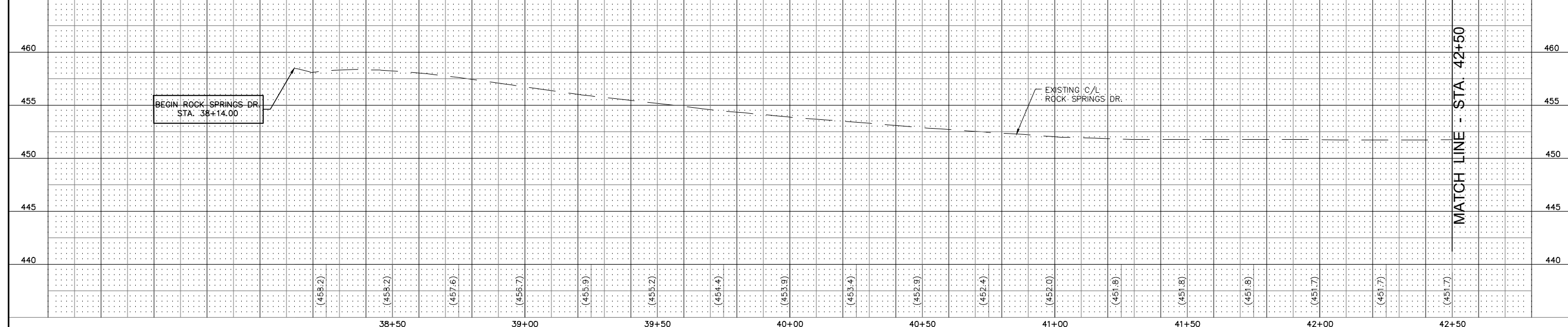
STORM SEWERS

- ① ② TO ① 50 FT. - S.S., CL A, TY. 2, 18" @ 4.42%
- ② ③ TO ② 27 FT. - S.S., CL A, TY. 1, 12" @ 3.89%
4 CU. YD. TRENCH BACKFILL
- ③ ④ TO ③ 24 FT. - S.S., TY. 1, WAT MN, 12" @ 0.33%
3 CU. YD. TRENCH BACKFILL
- ④ ⑤ TO ④ 9 FT. - S.S., TY. 1, WAT MN, 12" @ 5.04%
- ⑤ ⑥ TO ⑤ 35 FT. - S.S., TY. 1, WAT MN, 12" @ 0.33%
5 CU. YD. TRENCH BACKFILL

CONSTRUCTION NOTES

- ① 2,177 SQ. FT. SIDEWALK REMOVAL
- ② 40 FT. CURB REMOVAL
- ③ 26 SQ. YD. PAVEMENT REMOVAL
- ④ 33 FT. CURB REMOVAL
- ⑤ INLET TO BE RECONSTRUCTED TO TOP ELEV. = 456.50 (3' X 3' INSIDE DIMENSION)
- ⑥ 1 EA. INLET REMOVAL
- ⑦ 54 FT. STORM SEWER REMOVAL, 15"
- ⑧ 8 FT. STORM SEWER REMOVAL, 12"
- ⑨ 25 FT. GUARDRAIL REMOVAL
- ⑩ 26 FT. STORM SEWER REMOVAL, 12"
- ⑪ NOT USED
- ⑫ 78 SQ. YD. PAVEMENT REMOVAL
- ⑬ 43 SQ. FT. SIDEWALK REMOVAL
- ⑭ NOT USED

*PROVIDE 2 FT. DIA. X 4" HIGH RISER OVER INLET TOP



REVISIONS

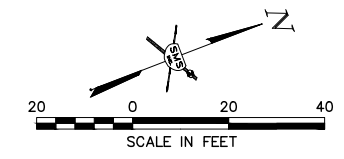
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 215 Market Street, Alton, IL 62002 618.462.9755 E-mail: mail@smsengineers.com
ENGINEERS DESIGN FIRM # 184-000992

CITY OF ALTON, ILLINOIS
 SECTION 21-00231-03-SW
 SAFE ROUTES TO SCHOOL - PHASE 3
 ROCK SPRINGS DRIVE - PLAN AND PROFILE

CONTRACT NO. 97801
 F.A.U. RTE. 8995/8961

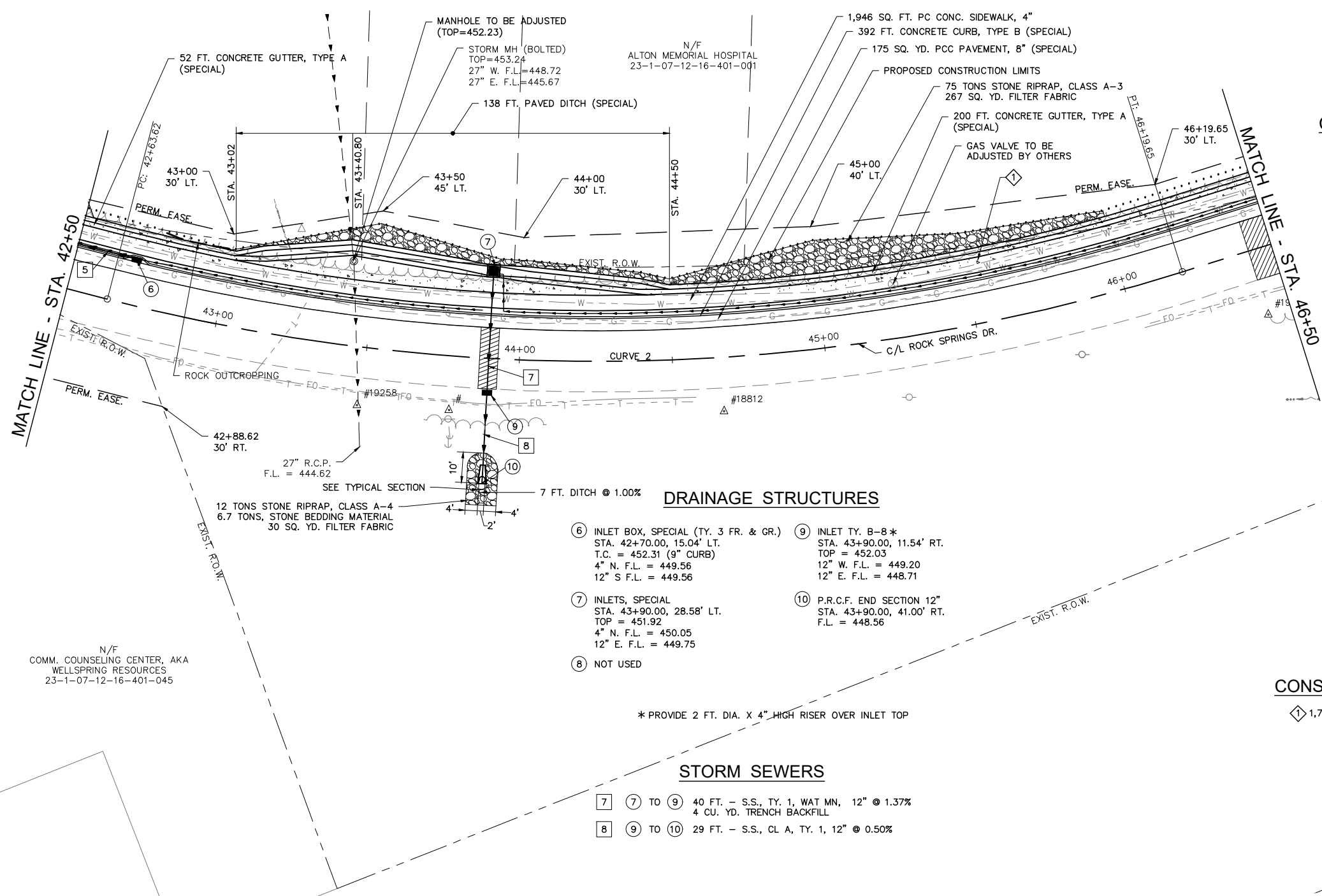
REF. BK.	PG.
JOB NO. 500674	
DSN. BY: DEG	
DWN. BY: CDP	
CHK. BY: DEG	
DATE: JANUARY, 2023	

SCALE: 1" = 20'
 SHEET 7 OF 35



CENTERLINE CURVE DATA

CURVE NO. 2
 P.I. STA.=44+46.38
 $\Delta=31^{\circ}53'09''$
 $T=182.76'$
 $R=639.75'$
 $L=356.03'$
 $E=25.59'$
 P.C. STA.=42+63.62
 P.T. STA.=46+19.65
 SUPER ELEV.=NONE



- DRAINAGE STRUCTURES**
- ⑥ INLET BOX, SPECIAL (TY. 3 FR. & GR.)
 STA. 42+70.00, 15.04' LT.
 T.C. = 452.31 (9" CURB)
 4" N. F.L. = 449.56
 12" S F.L. = 449.56
 - ⑦ INLETS, SPECIAL
 STA. 43+90.00, 28.58' LT.
 TOP = 451.92
 4" N. F.L. = 450.05
 12" E. F.L. = 449.75
 - ⑧ NOT USED
 - ⑨ INLET TY. B-8 *
 STA. 43+90.00, 11.54' RT.
 TOP = 452.03
 12" W. F.L. = 449.20
 12" E. F.L. = 448.71
 - ⑩ P.R.C.F. END SECTION 12"
 STA. 43+90.00, 41.00' RT.
 F.L. = 448.56

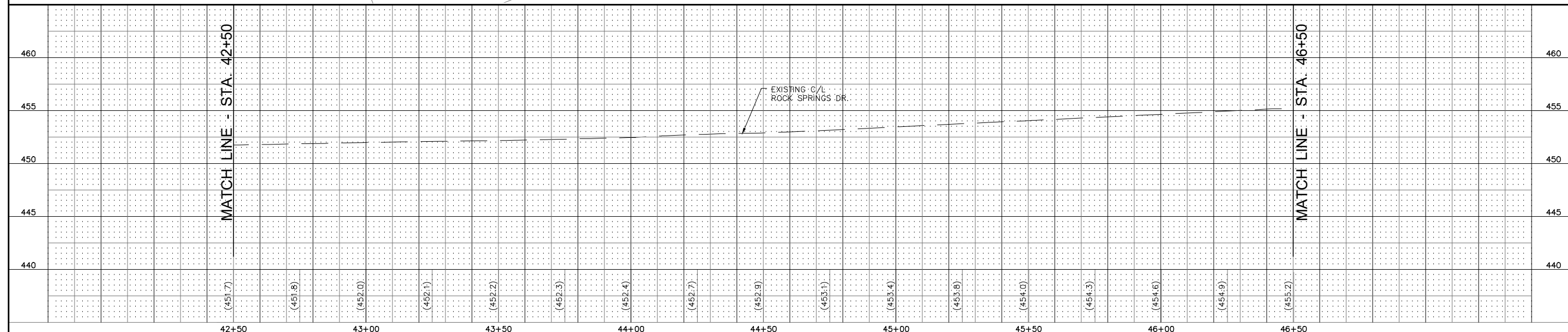
* PROVIDE 2 FT. DIA. X 4" HIGH RISER OVER INLET TOP

- STORM SEWERS**
- ⑦ TO ⑨ 40 FT. - S.S., TY. 1, WAT MN, 12" @ 1.37%
 4 CU. YD. TRENCH BACKFILL
 - ⑧ TO ⑩ 29 FT. - S.S., CL A, TY. 1, 12" @ 0.50%

CONSTRUCTION NOTES

◊ 1,726 SQ. FT. SIDEWALK REMOVAL

N/F
 COMM. COUNSELING CENTER, AKA
 WELLSRING RESOURCES
 23-1-07-12-16-401-045



REVISIONS

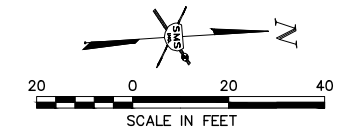
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CITY OF ALTON, ILLINOIS
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 SAFE ROUTES TO SCHOOL - PHASE 3
 ROCK SPRINGS DRIVE - PLAN AND PROFILE

CONTRACT NO. 97801
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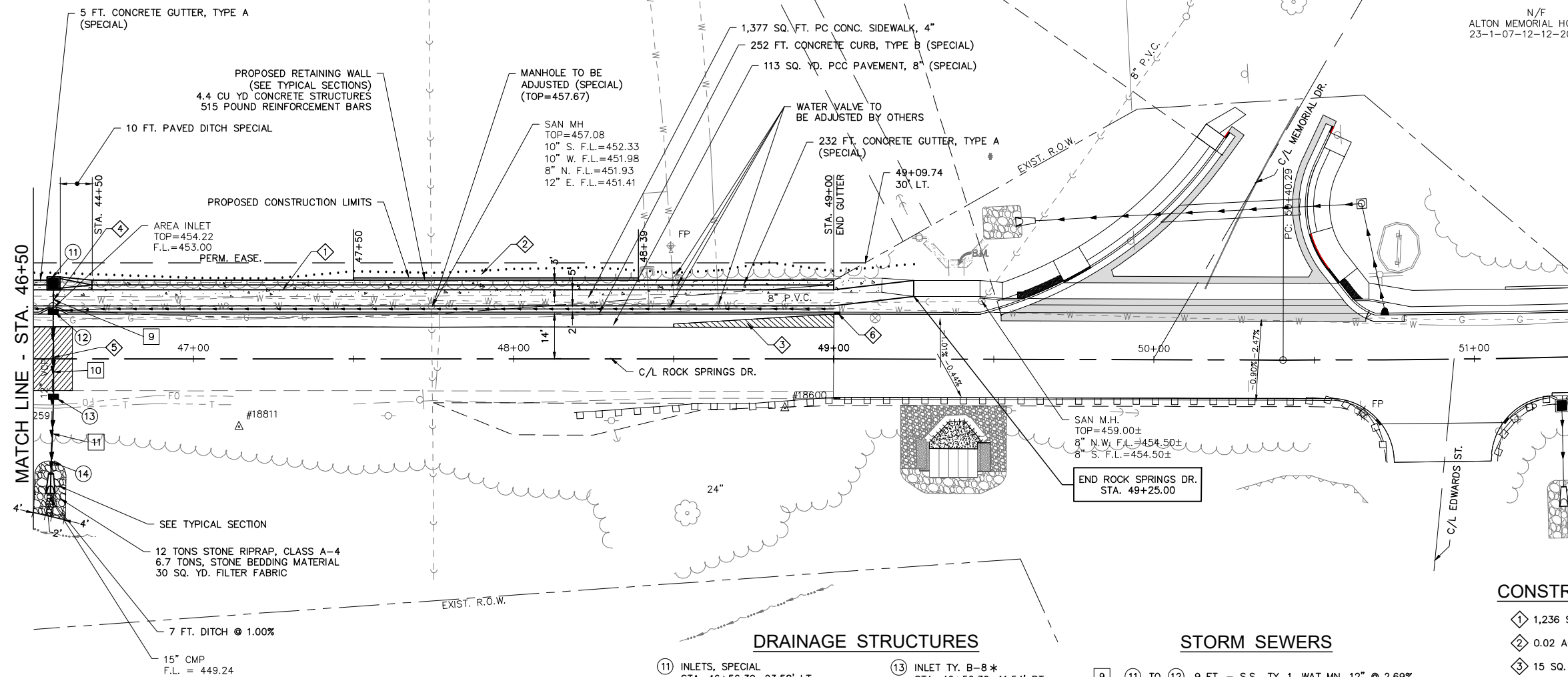
REF. BK.	PG.
JOB NO. 500674	
DSN. BY: DEG	
DWN. BY: CDP	
CHK. BY: DEG	
DATE: JANUARY, 2023	

SCALE: 1" = 20'
 SHEET 8 OF 35



N/F
ALTON MEMORIAL HOSPITAL
23-1-07-12-16-401-001

N/F
ALTON MEMORIAL HOSPITAL
23-1-07-12-12-200-009



DRAINAGE STRUCTURES

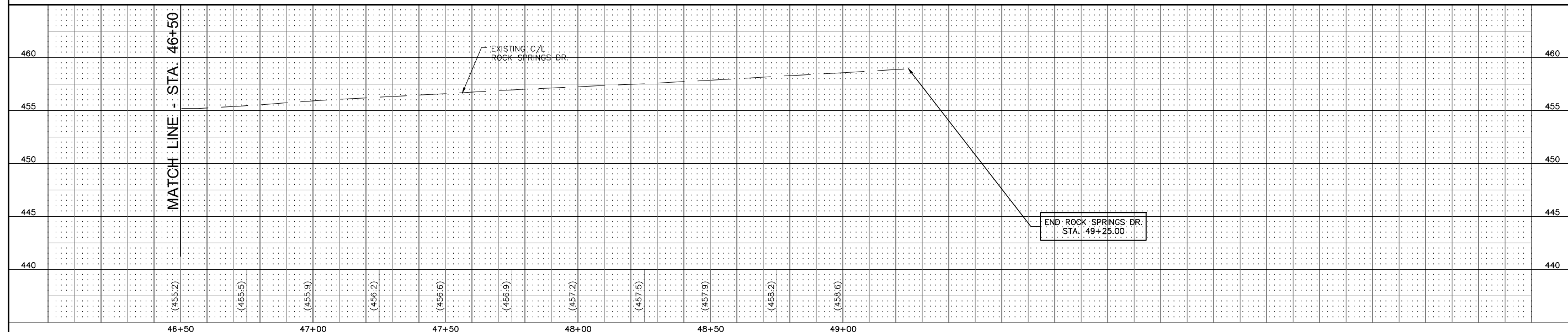
- 11 INLETS, SPECIAL
STA. 46+56.39, 23.58' LT.
TOP = 456.18
12" E. F.L. = 453.25
- 12 INLET BOX, SPECIAL (TY. 3 FR. & GR.)
STA. 46+56.39, 15.04' LT.
T.C. = 455.77
12" W. F.L. = 453.02
12" E. F.L. = 453.02
4" N. F.L. = 453.02
*PROVIDE 2 FT. DIA. X 4" HIGH RISER OVER INLET TOP
- 13 INLET TY. B-8*
STA. 46+56.39, 11.54' RT.
TOP = 455.33
12" W. F.L. = 451.50
15" E. F.L. = 451.40
- 14 P.R.C.F. END SECTION 15"
STA. 46+55.39, 42.00' RT.
F.L. = 446.66

STORM SEWERS

- 9 11 TO 12 9 FT. - S.S., TY. 1, WAT MN, 12" @ 2.69%
4 CU. YD. TRENCH BACKFILL
- 10 12 TO 13 27 FT. - S.S., CL A, TY. 1, 12" @ 5.72%
- 11 8 TO 9 30 FT. - S.S., CL A, TY. 1, 15" @ 15.55%

CONSTRUCTION NOTES

- 1 1,236 SQ. FT. SIDEWALK REMOVAL
- 2 0.02 ACRES TREE REMOVAL
- 3 15 SQ. YD. PAVEMENT REMOVAL
- 4 1 EA. INLET REMOVAL
- 5 27 FT. STORM SEWER REMOVAL, 12"
- 6 2 FT. CURB REMOVAL
- 7 32 FT. STORM SEWER REMOVAL, 15"



REVISIONS

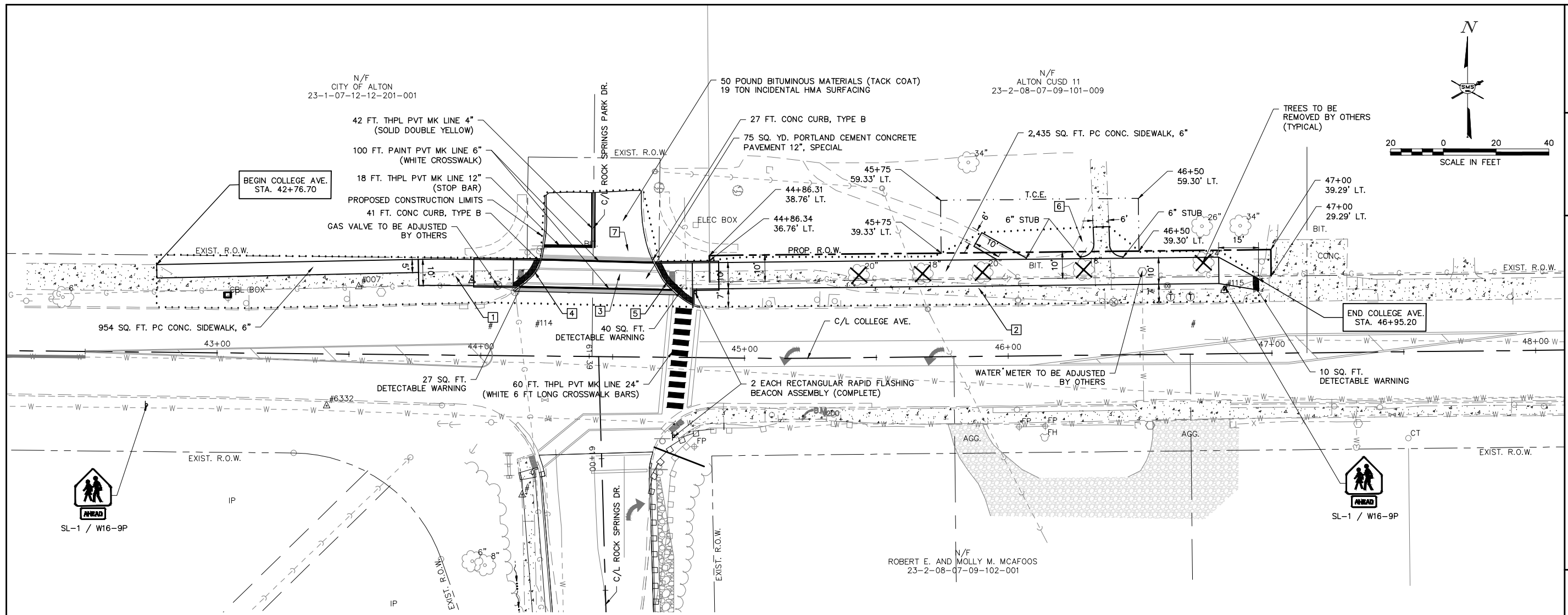
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SCALE: 1" = 20'
SHEET 9 OF 35



CONSTRUCTION NOTES

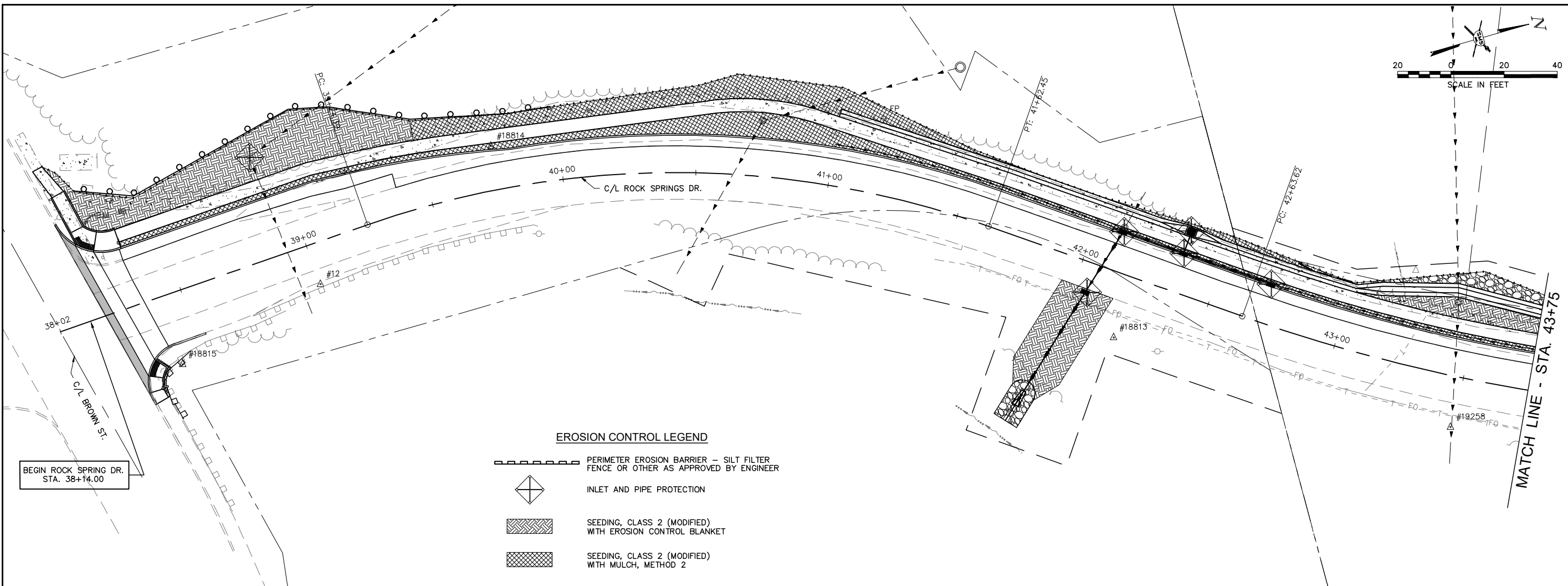
- | | |
|----------------------------------|---|
| 1 214 SQ. FT. SIDEWALK REMOVAL | 4 41 FT. CURB REMOVAL |
| 2 1,330 SQ. FT. SIDEWALK REMOVAL | 5 27 FT. CURB REMOVAL |
| 3 75 SQ. YD. PAVEMENT REMOVAL | 6 51 SQ. YD. HMA SURFACE REMOVAL, SPECIAL |
| | 7 112 SQ. YD. HMA SURFACE REMOVAL, VARIABLE DEPTH |

REVISIONS





SMS Sheppard, Morgan & Schwab, Inc.
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 215 Market Street, Alton, IL 62002 618-462-9755 E-mail: mail@smsengineers.com
ENGINEERS DESIGN FIRM # 184-000992

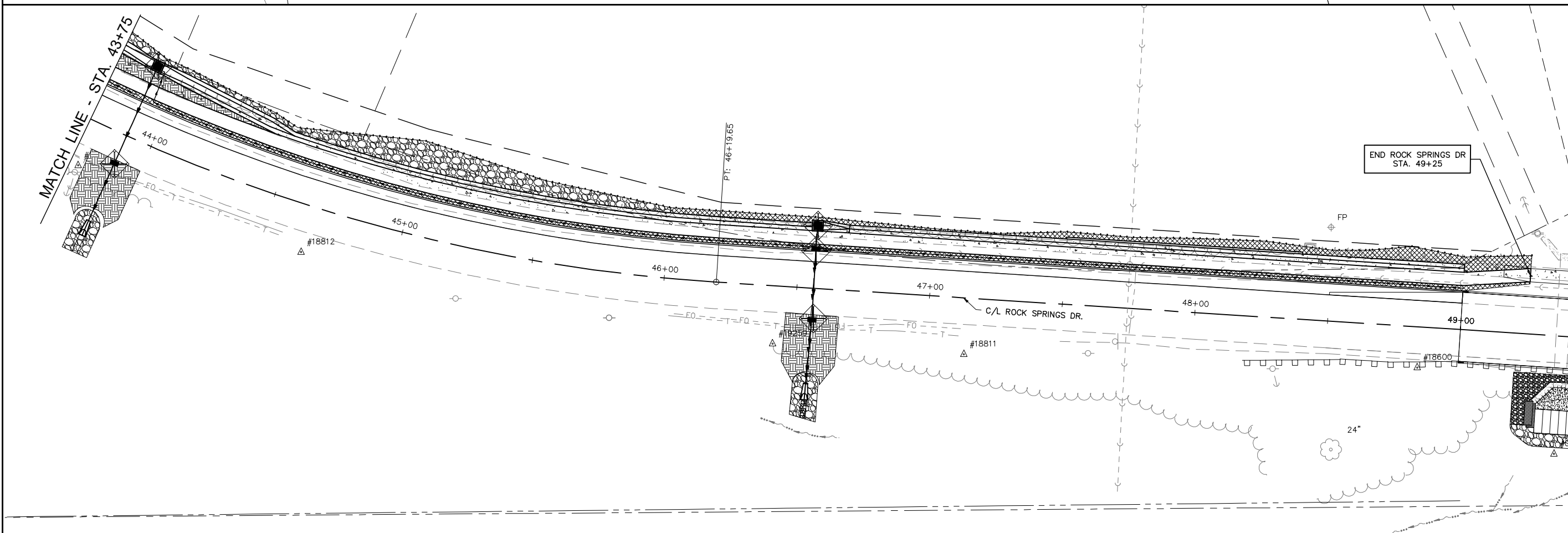
CITY OF ALTON, ILLINOIS
 SECTION 21-00231-03-SW
 SAFE ROUTES TO SCHOOL - PHASE 3
 COLLEGE AVENUE - PLAN

CONTRACT NO.	97801
F.A.U. RTE.	8995/8961
REF. BK.	PG.
JOB NO.	500674
DSN. BY:	DEG
DWN. BY:	CDP
CHK. BY:	DEG
DATE:	JANUARY, 2023
SCALE:	1" = 20'
SHEET	10 OF 35



EROSION CONTROL LEGEND

-  PERIMETER EROSION BARRIER — SILT FILTER FENCE OR OTHER AS APPROVED BY ENGINEER
-  INLET AND PIPE PROTECTION
-  SEEDING, CLASS 2 (MODIFIED) WITH EROSION CONTROL BLANKET
-  SEEDING, CLASS 2 (MODIFIED) WITH MULCH, METHOD 2

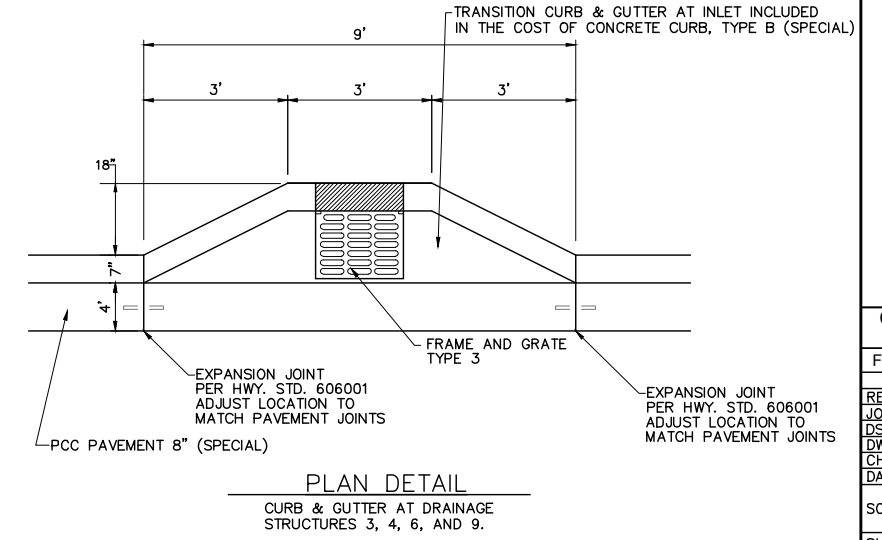
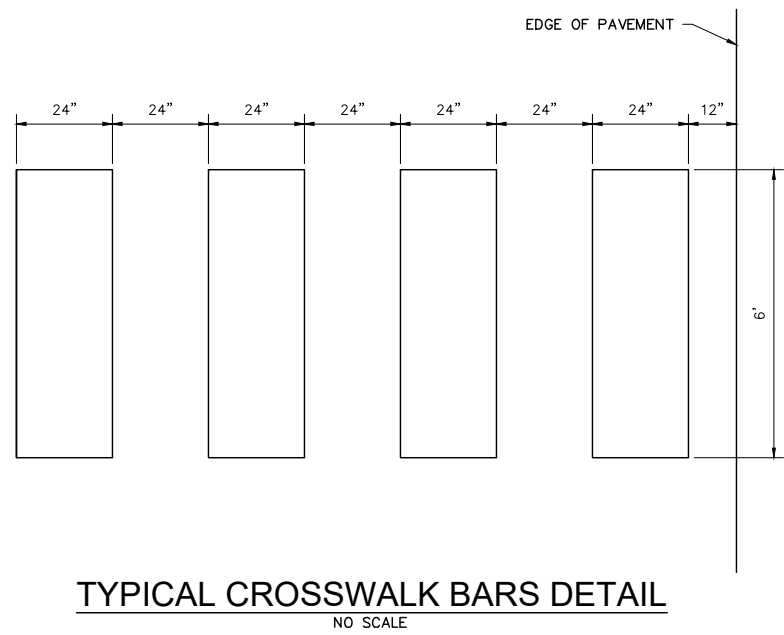
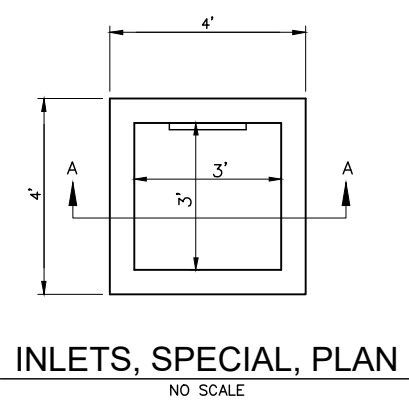
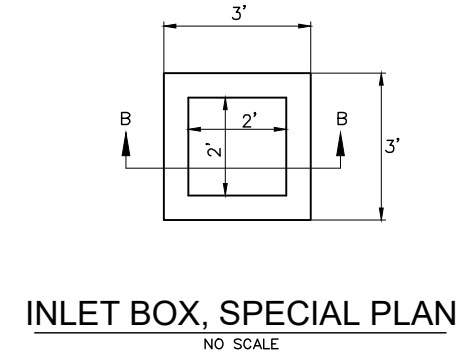
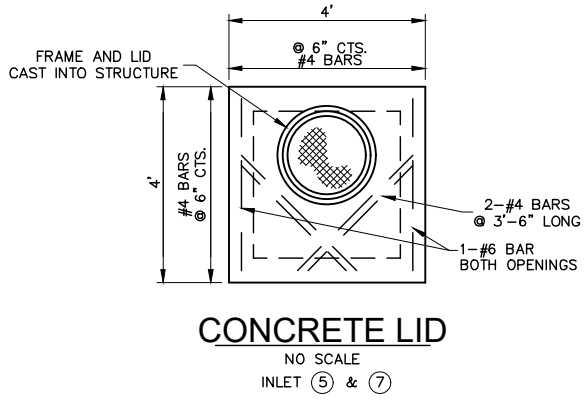
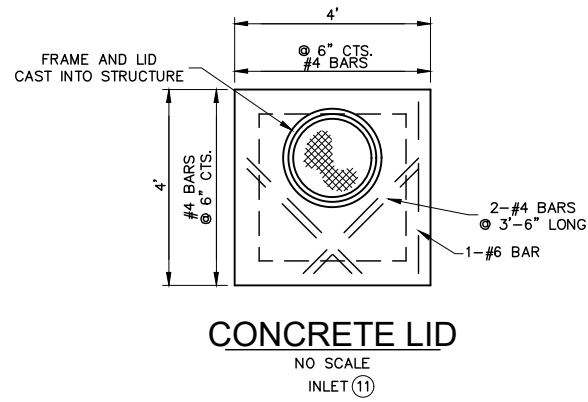
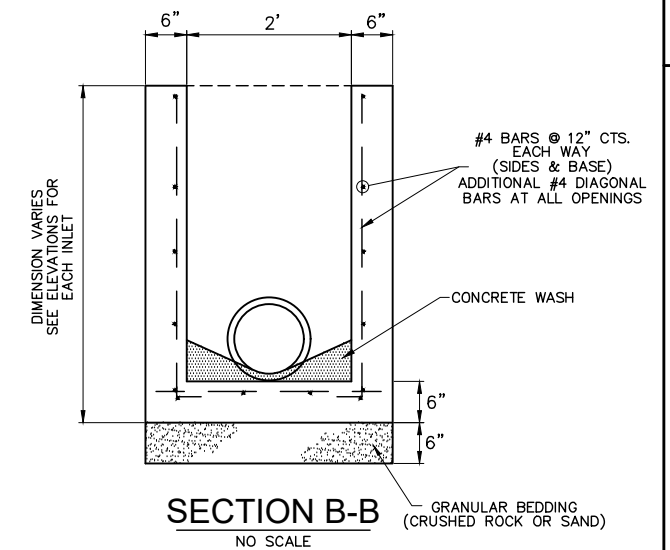
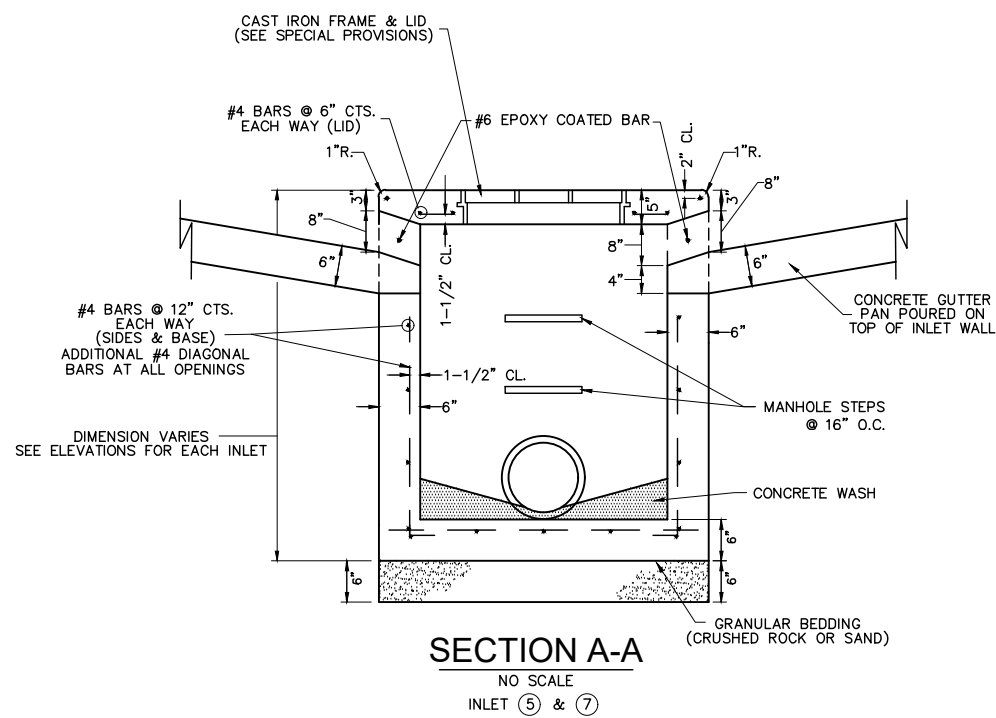
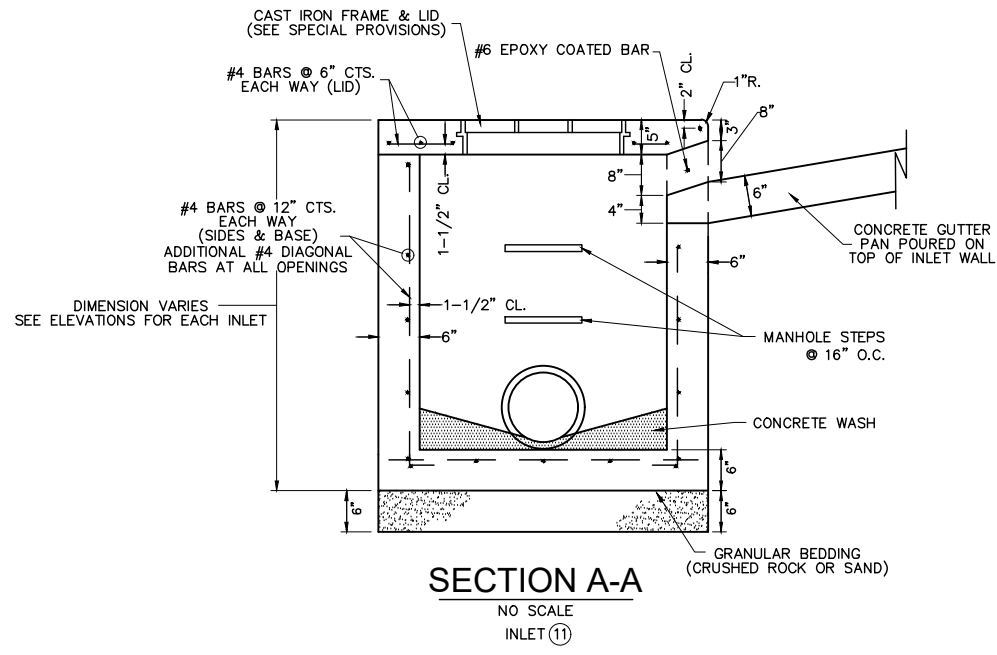


NO.	DATE	REVISIONS

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CITY OF ALTON, ILLINOIS
 SECTION 21-00231-03-SW
 SAFE ROUTES TO SCHOOL - PHASE 3
 EROSION CONTROL PLAN

CONTRACT NO. 97801	
F.A.U. RTE. 8995/8961	
REF. BK.	PG.
JOB NO. 500674	
DSN. BY: DEG	
DWN. BY: CDP	
CHK. BY: DEG	
DATE: JANUARY, 2023	
SCALE: 1" = 20'	
SHEET 13 OF 35	



REVISIONS

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CITY OF ALTON, ILLINOIS
 SECTION 21-00231-03-SW
 SAFE ROUTES TO SCHOOL - PHASE 3
 CONSTRUCTION DETAILS

CONTRACT NO.	97801
F.A.U. RTE.	8995/8961
REF. BK.	PG.
JOB NO.	500674
DSN. BY:	DEG
DWN. BY:	CDP
CHK. BY:	DEG
DATE:	JANUARY, 2023
SCALE:	
SHEET	16 OF 35

SOLAR PANEL AFFIXED TO ALUMINUM PLATE BRACKET
ADJUSTABLE AT ANGLE OF 45° TO 80° VERTICALLY AND
360° ROTATABLE TO FACILITATE ADJUSTMENT FOR MAXIMUM
SOLAR COLLECTION AND OPTIMAL BATTERY STRENGTH

CONTROL BOX AND BATTERY CABINET

TYPICAL EQUIPMENT ATTACHMENT BRACKET
ALL EQUIPMENT SHALL BE ATTACHED TO THE
SIGNAL POLE IN ACCORDANCE WITH MANUFACTURERS
RECOMMENDATIONS AND IDOT STANDARDS

SIGN SL-1
36" X 36"
2 SIGNS
BACK TO BACK

RECTANGULAR
RAPID-FLASHING
BEACON - APROX.
24" X 4" X 1 1/2"
2 EACH MOUNTED
BACK TO BACK
(SEE NOTE 3)

SIGN W16-7P
24" X 12"
2 SIGNS
BACK TO BACK

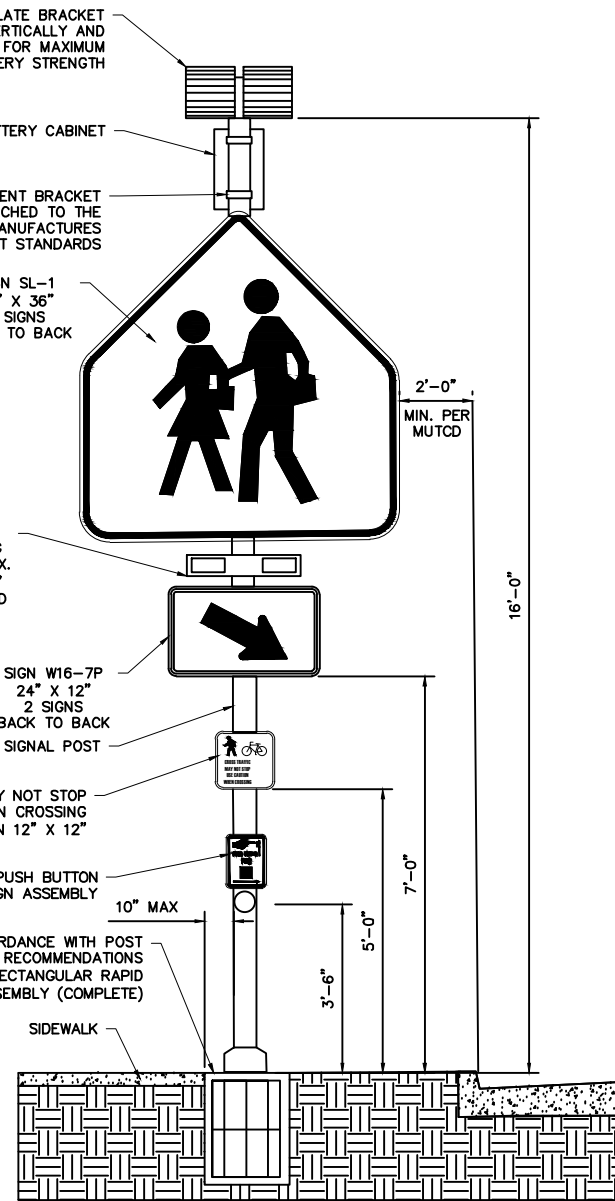
TRAFFIC SIGNAL POST

CROSS TRAFFIC MAY NOT STOP
USE CAUTION WHEN CROSSING
SIGN 12" X 12"

PEDESTRIAN PUSH BUTTON
AND SIGN ASSEMBLY

FOUNDATION IN ACCORDANCE WITH POST
MANUFACTURERS RECOMMENDATIONS
(COST INCLUDED IN RECTANGULAR RAPID
FLASHING BEACON ASSEMBLY (COMPLETE))

SIDEWALK



CROSS TRAFFIC MAY NOT STOP
USE CAUTION WHEN CROSSING
SIGN (12" X 12")
PEDESTRIAN SYMBOL HEIGHT - 4" (IN)
BICYCLE SYMBOL HEIGHT - 3" (IN)
LETTERS - 1" C
LEGEND - BLACK
BACKGROUND - YELLOW

1. ALL SIGNS SHALL BE CONSTRUCTED WITH DIAMONDGRADE REFLECTIVE SHEETING IN ACCORDANCE WITH SECTIONS 720 AND 1091 OF THE STANDARD SPECIFICATIONS.
2. CONTROL CABINET ENCLOSURE SHALL BE SIZED BY THE RAPID FLASHING BEACON MANUFACTURER AS REQUIRED TO HOUSE CONTROLLER AND COMPONENTS. THE CONTROLLER CABINET MAY BE INTEGRATED INTO THE SOLAR PANEL ASSEMBLY.
3. BEACON ASSEMBLY SHALL BE MOUNTED ON THE SIDE OF THE POST OR ON THE TOP OF THE POST. A SOLAR POWER UNIT MAY BE INSTALLED ON TOP OF THE MOUNT.
4. RRFB DISPLAYS SHALL BE LED TYPE MEETING THE INTENSITY REQUIREMENTS OF SAE J595 FOR CLASS 1 YELLOW, BUT SHALL NOT EXCEED 1000 CANDELAS DURING DAYLIGHT AND 500 CANDELAS AFTER DARK.
5. SEE HIGHWAY STANDARD 720001 (SIGN PANEL MOUNTING DETAILS)
6. ALL PEDESTRIAN SIGNS SHALL BE FLUORESCENT YELLOW-GREEN (FYG) COLOR AND TYP A2 SHEETING.

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SAFE ROUTES TO SCHOOL - PHASE 3
CONSTRUCTION DETAILS

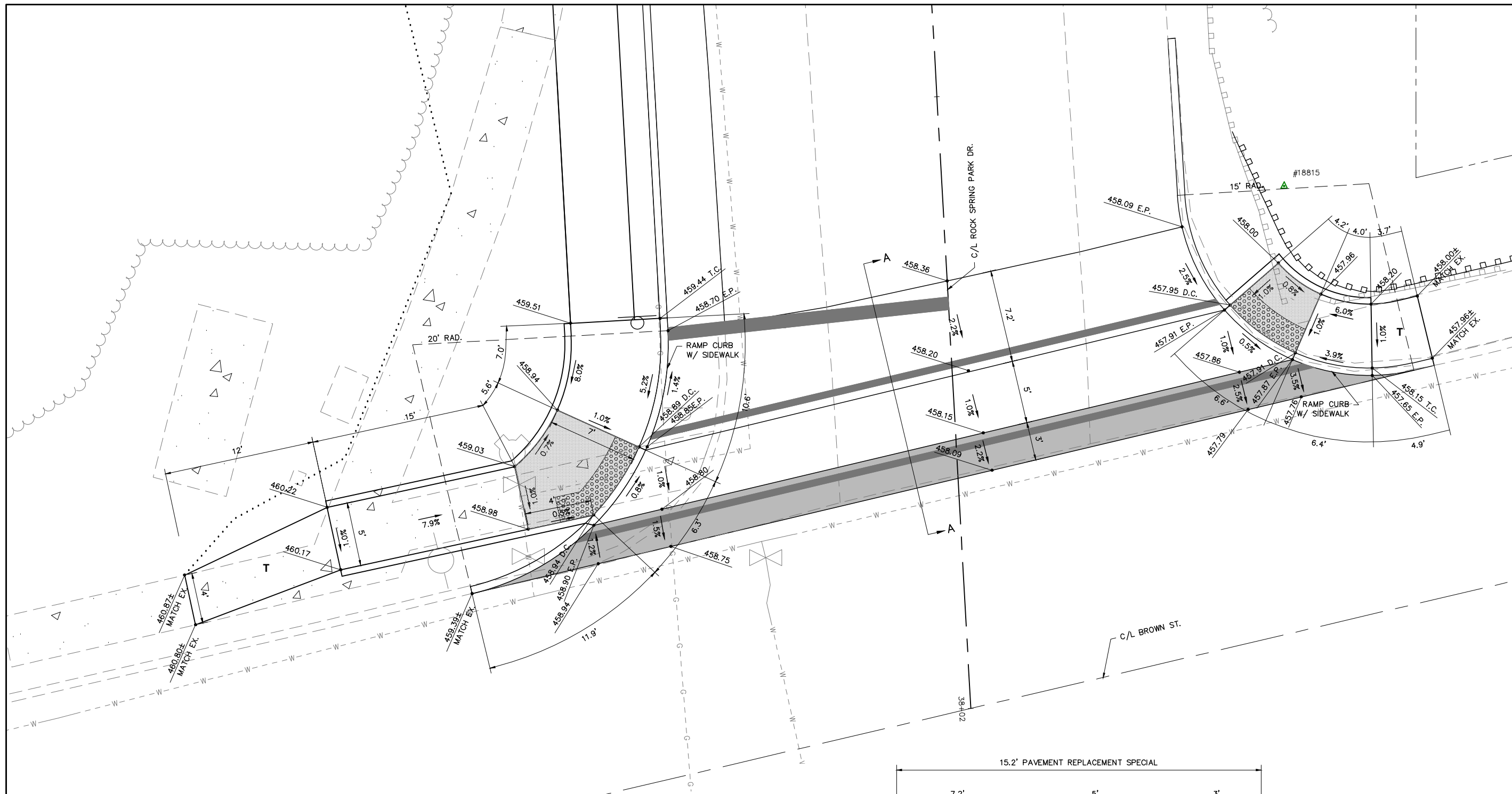
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97801

F.A.U. RTE. 8995/8961

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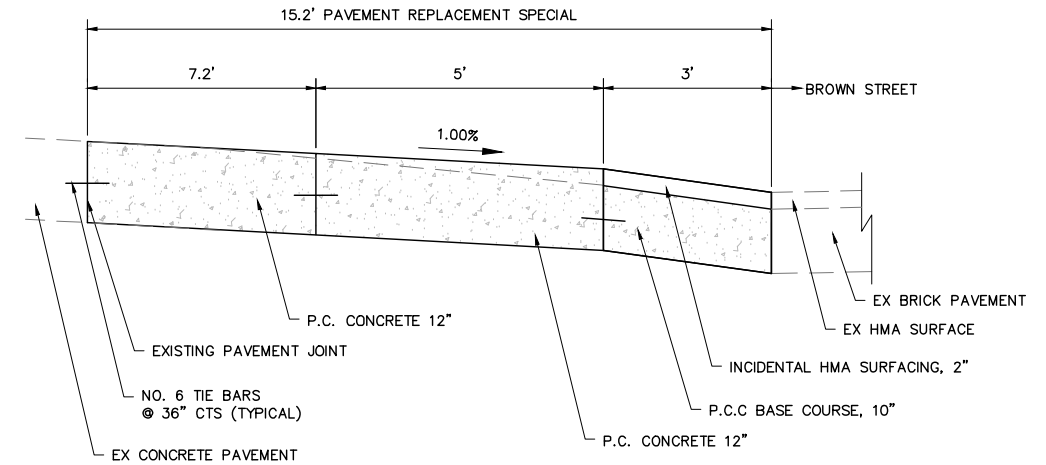
SCALE:

SHEET 17 OF 35



SIDEWALK LEGEND

- RAMP - MAX. SLOPE = 12:1 OR MAX. LENGTH REQUIRED = 15'
- ▨ DETECTABLE WARNING
- ▨ LANDING - MIN. SIZE 4' X 4' MAX. SLOPE IN EITHER DIRECTION = 2.0%
- BT** - BLENDED TRANSITION - MAX. CROSS SLOPE = 2.0%, MAX. RUNNING SLOPE = 5.0%
- T** - TRANSITION TO MEET EXISTING SIDEWALK



SECTION A-A

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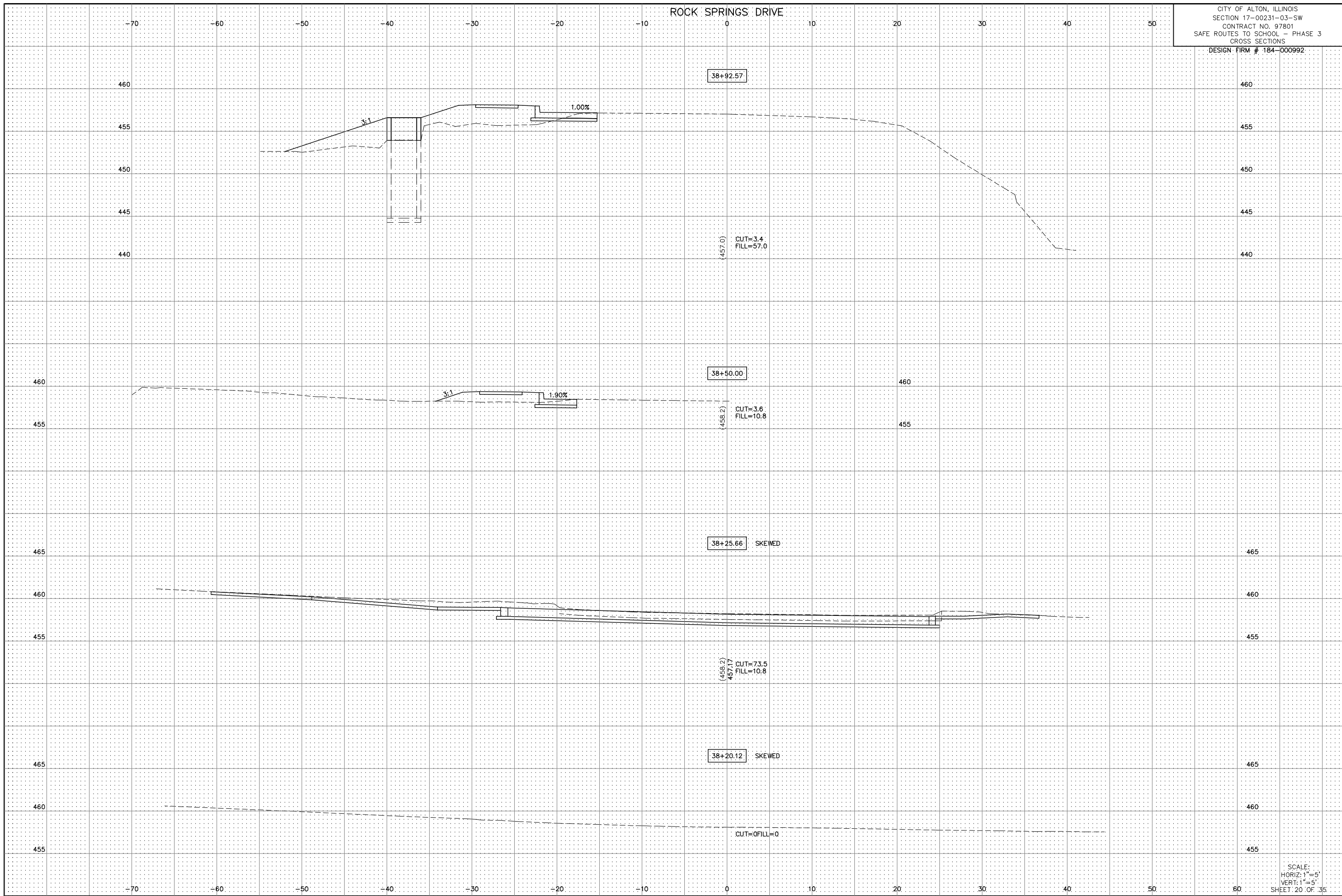
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DWN. BY: CDP	
CHK. BY: DEG	
DATE: JANUARY, 2023	

SCALE: 1" = 4'
 SHEET 19 OF 35

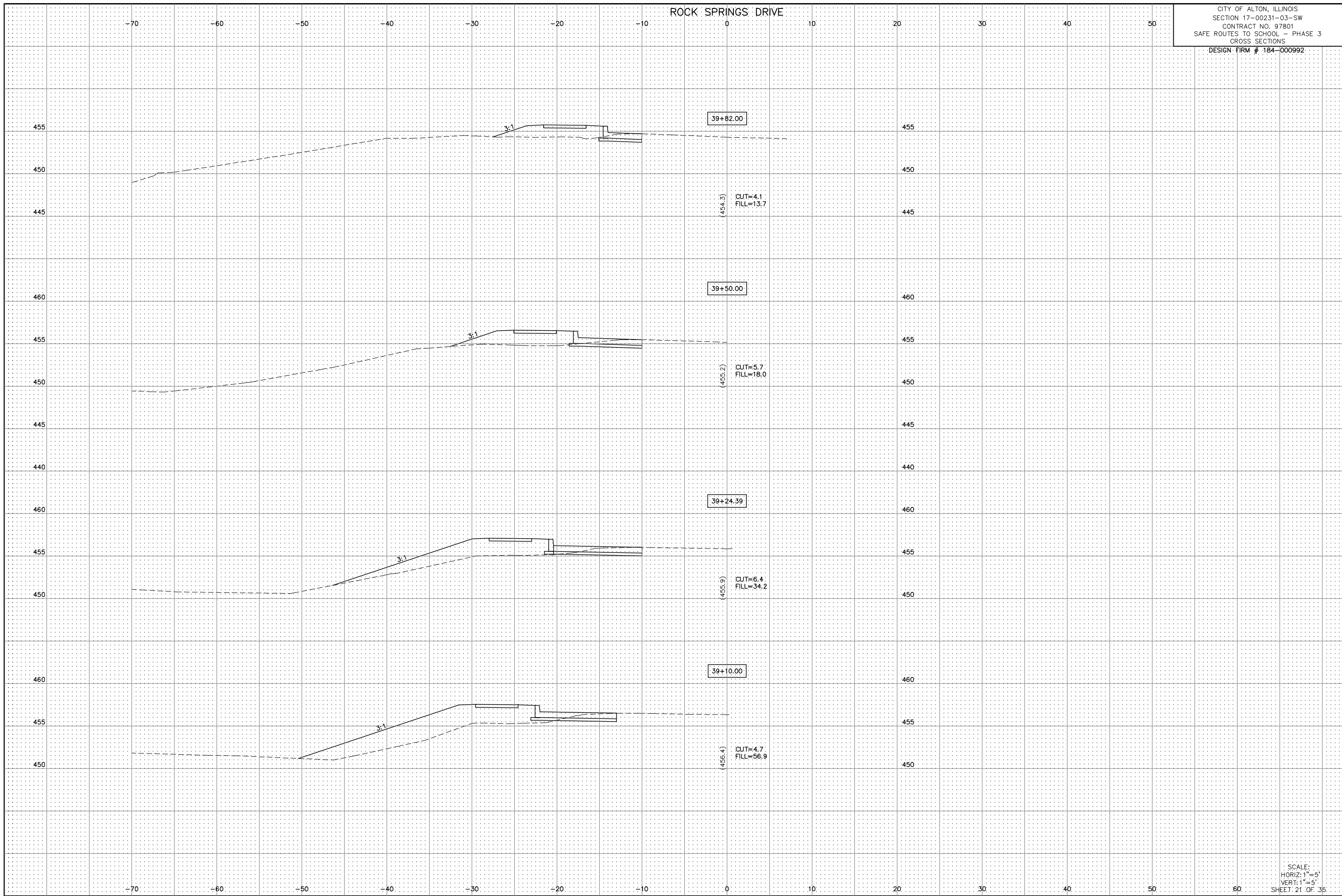
ROCK SPRINGS DRIVE

CITY OF ALTON, ILLINOIS
SECTION 17-00231-03-SW
CONTRACT NO. 97801
SAFE ROUTES TO SCHOOL - PHASE 3
CROSS SECTIONS
DESIGN FIRM # 184-000992



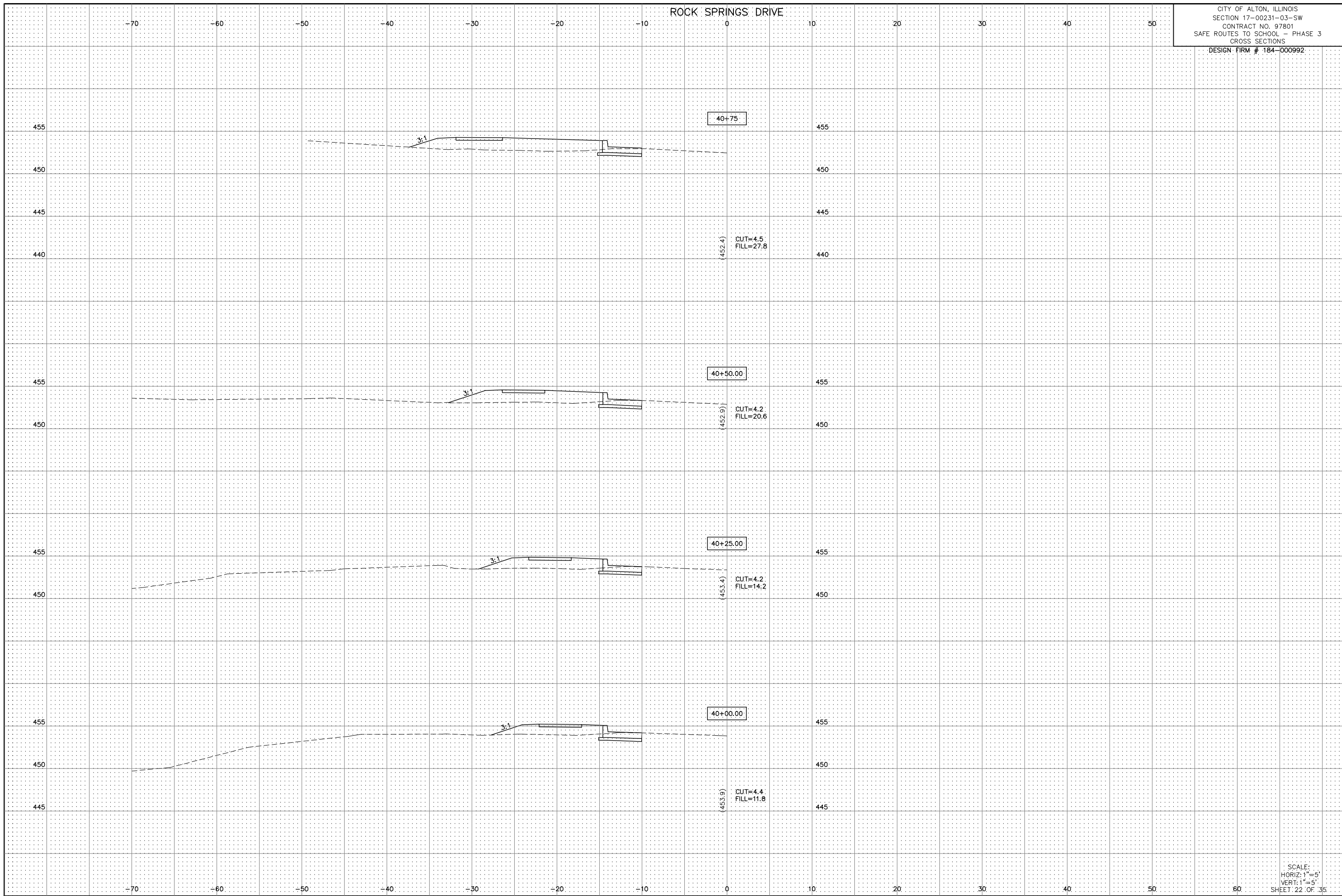
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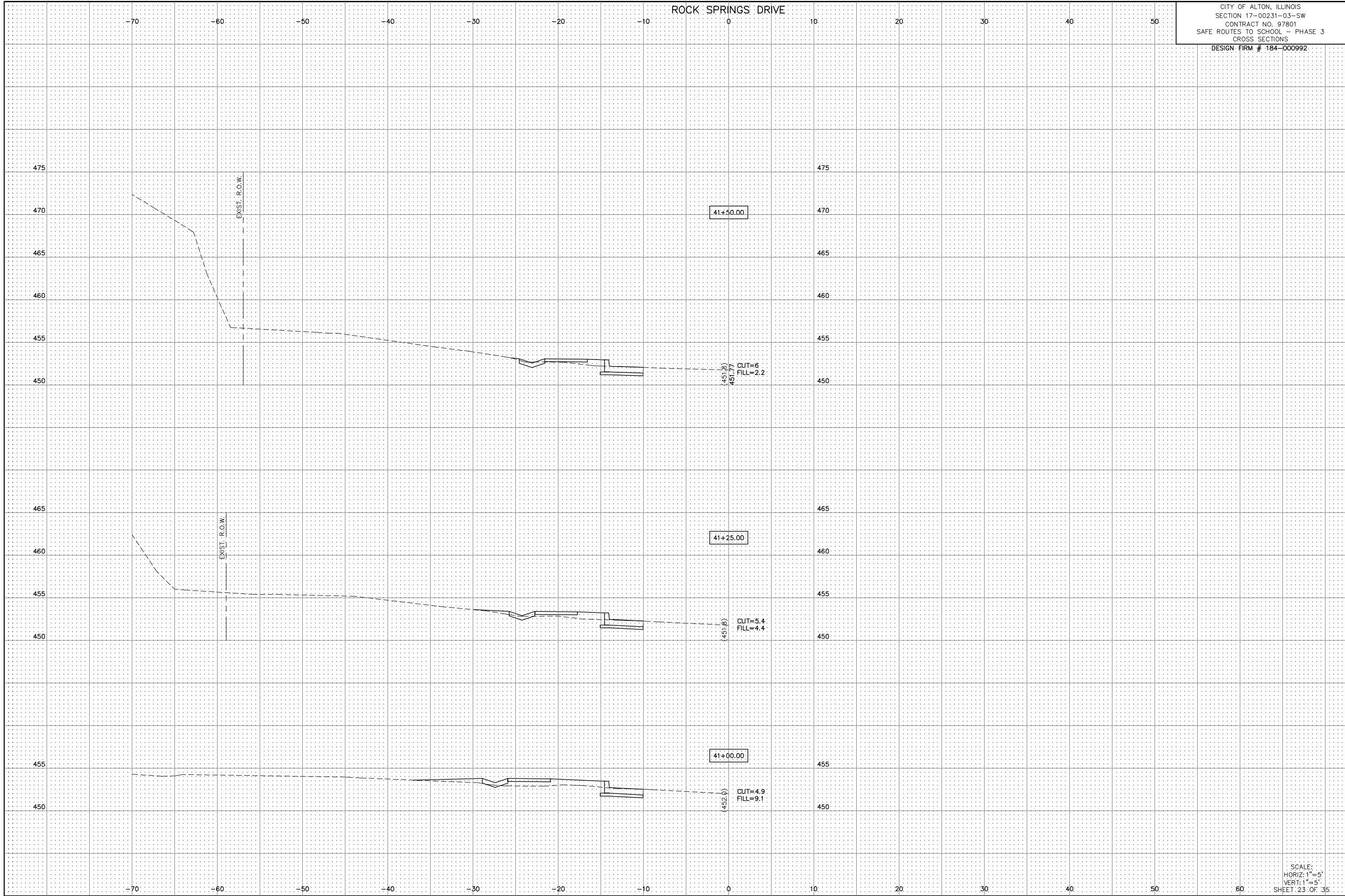
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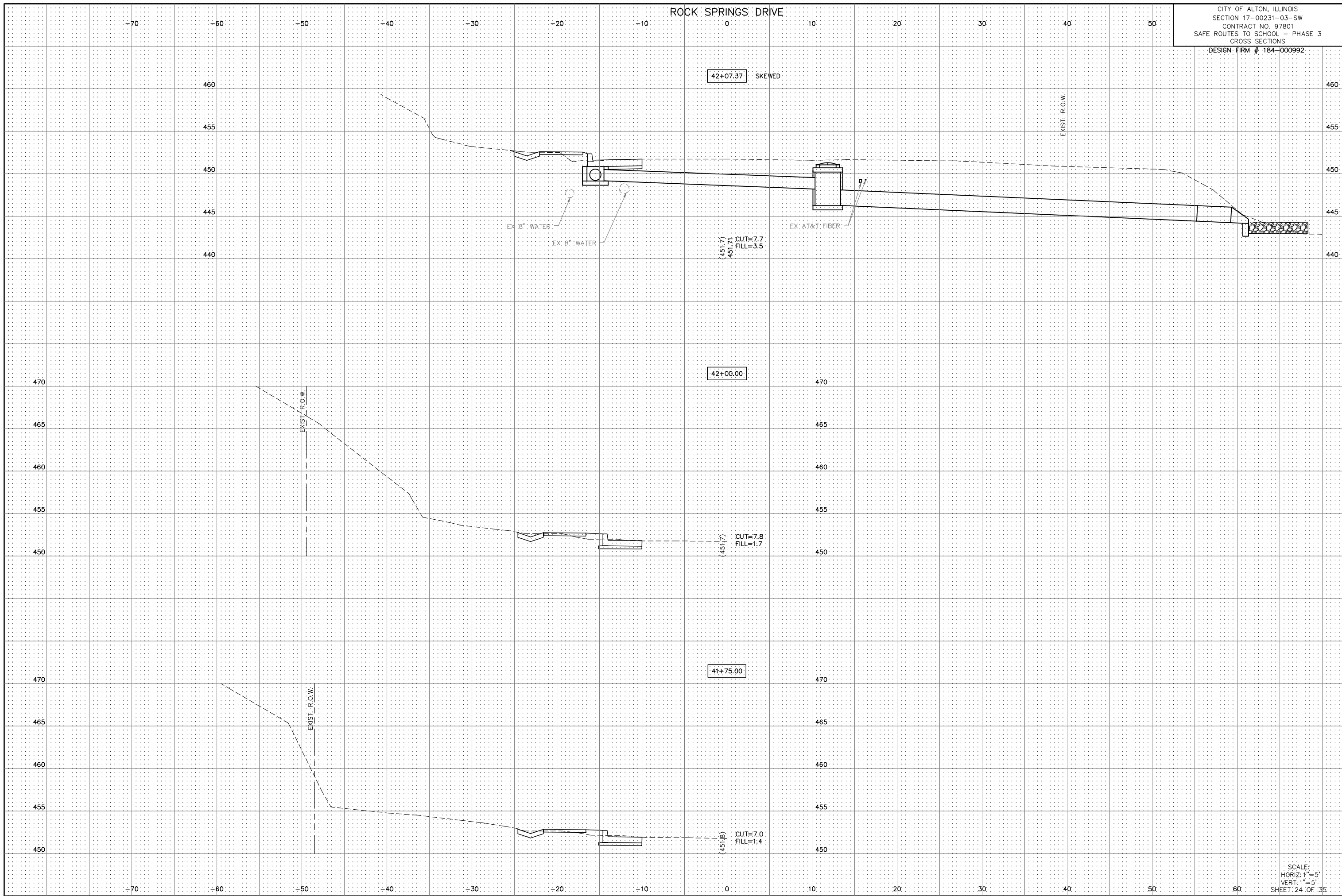
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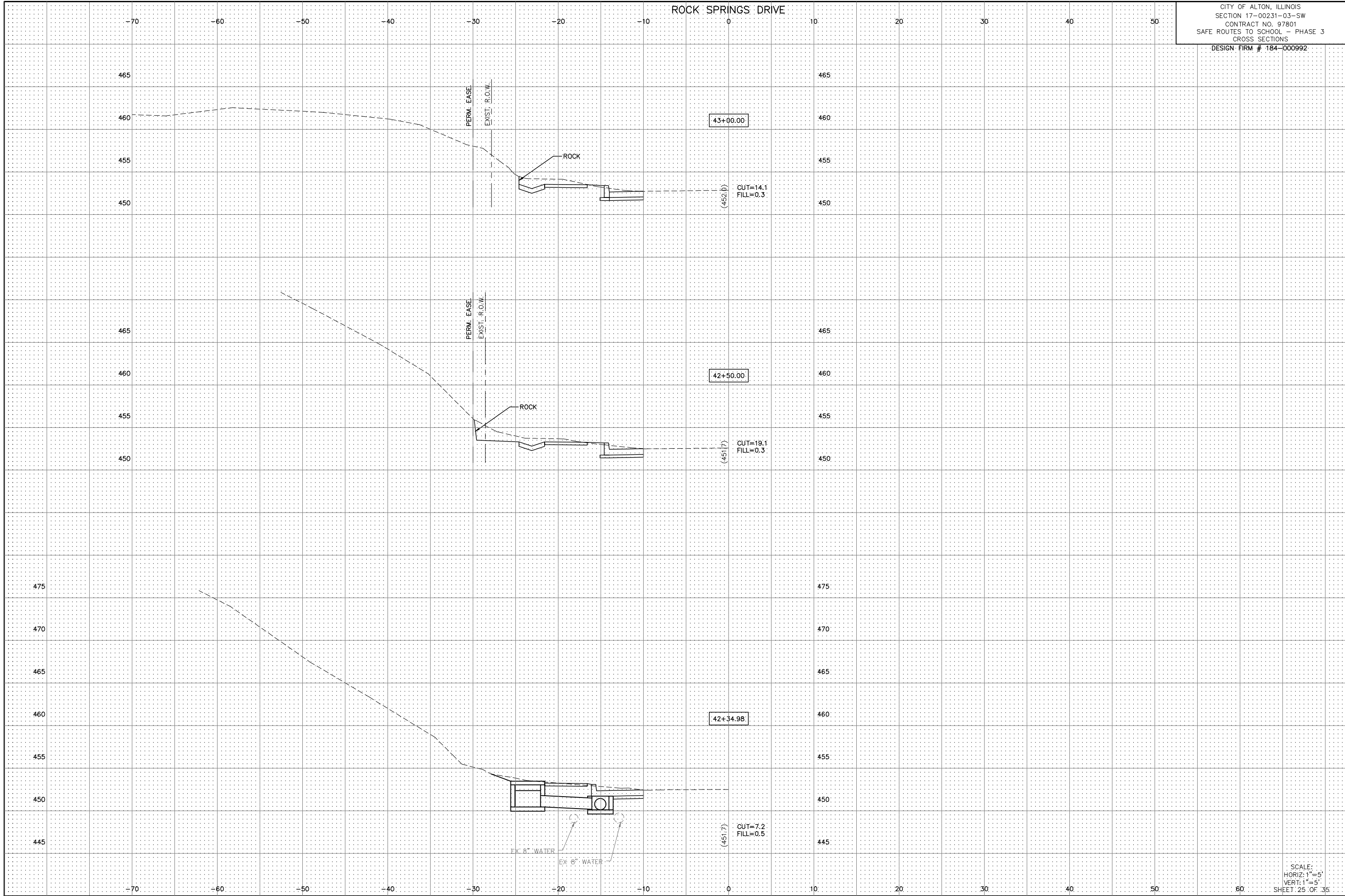
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SECTION 17-00231-03-SW
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SAFE ROUTES TO SCHOOL - PHASE 3
CROSS SECTIONS
DESIGN FIRM # 184-000992



SCALE:
HORIZ: 1"=5'
VERT: 1"=5'
SHEET: 24 OF 35

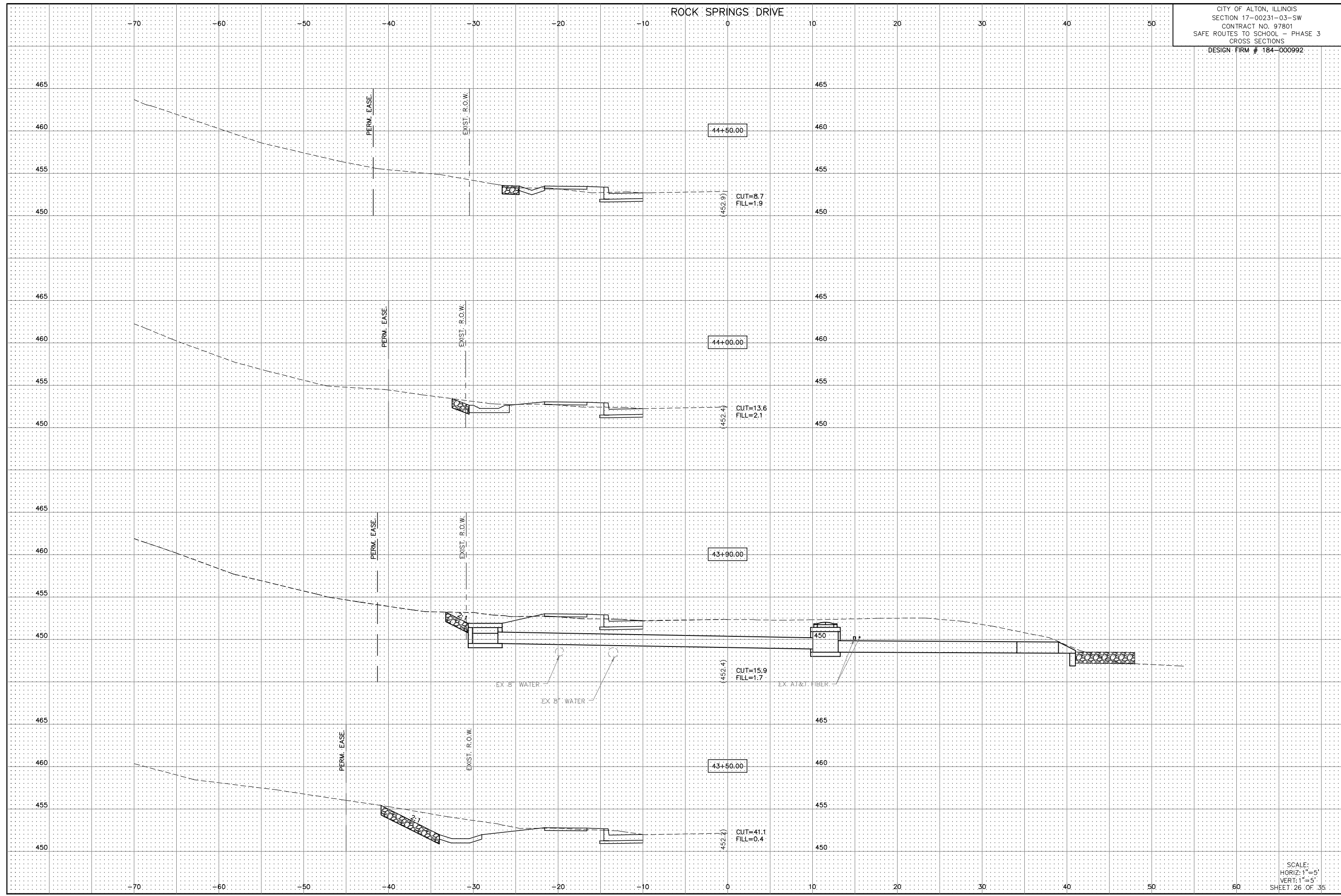
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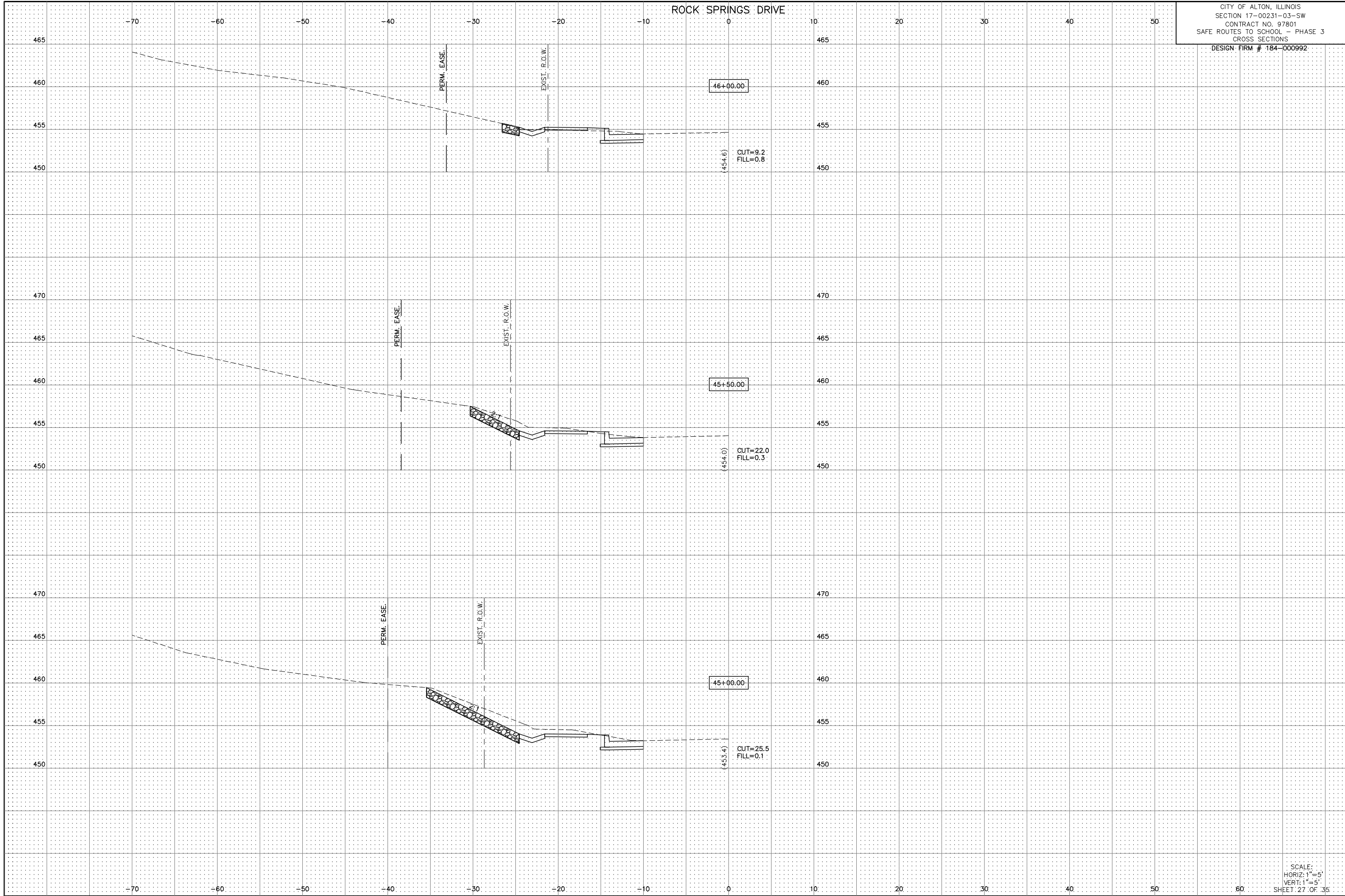
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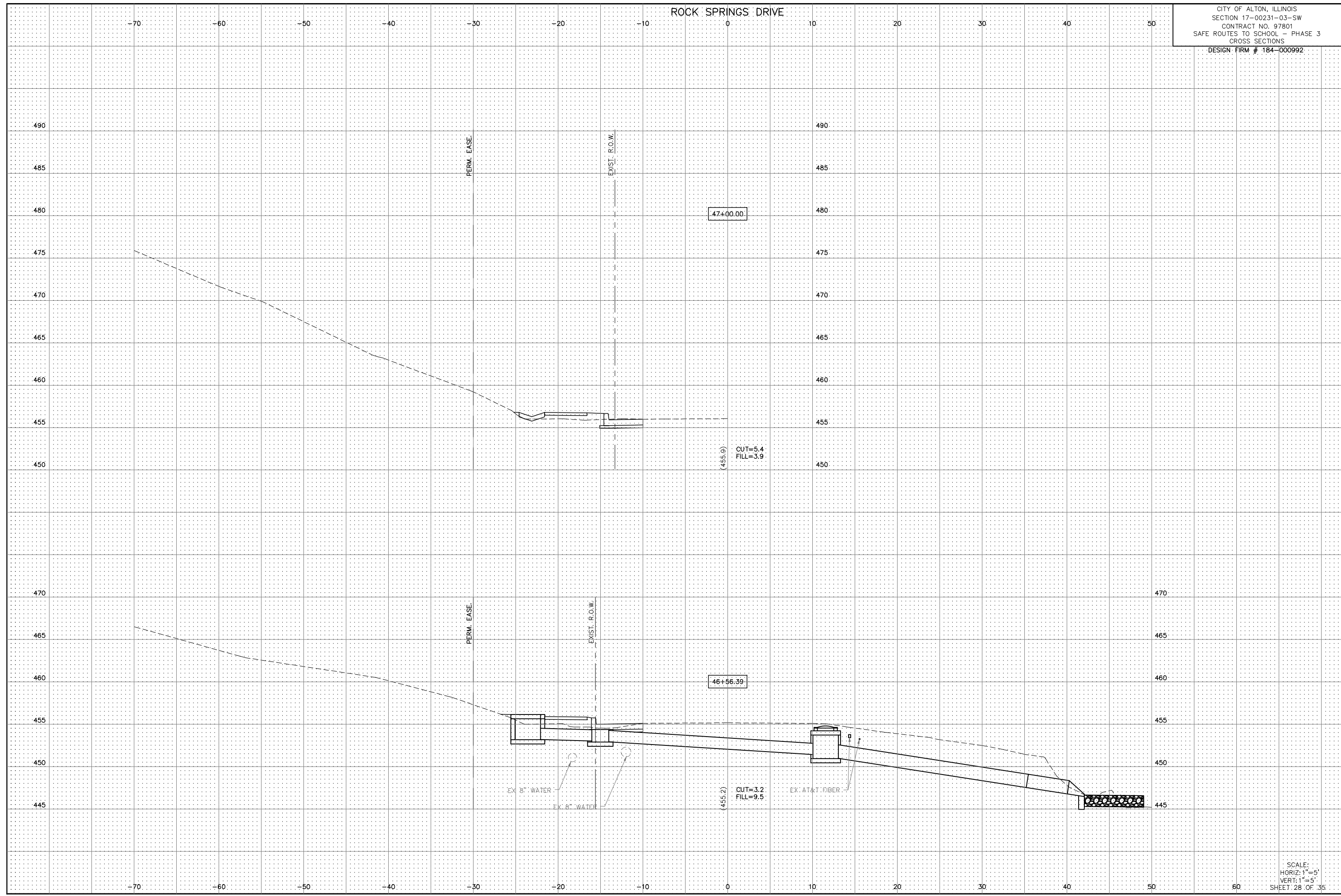
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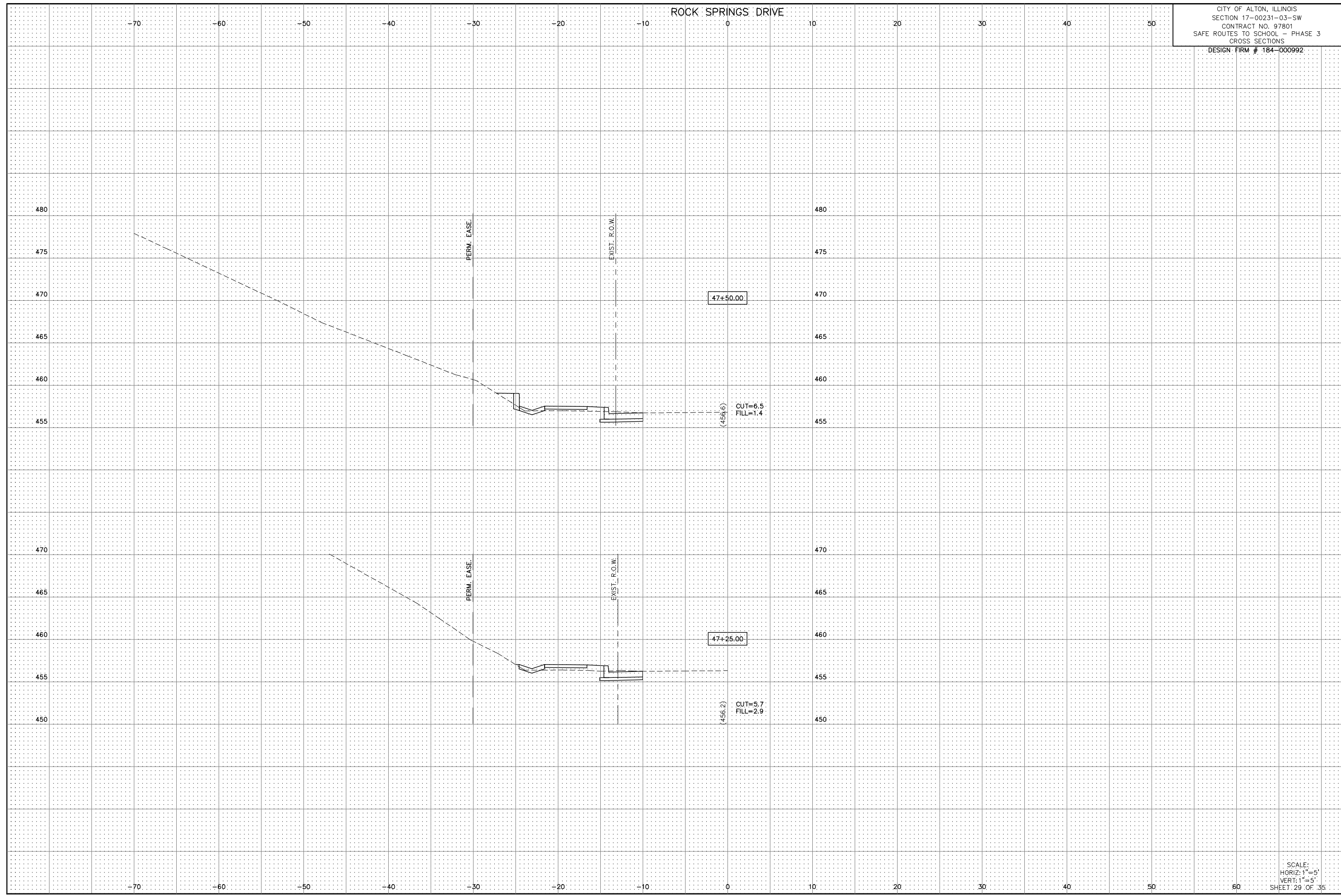
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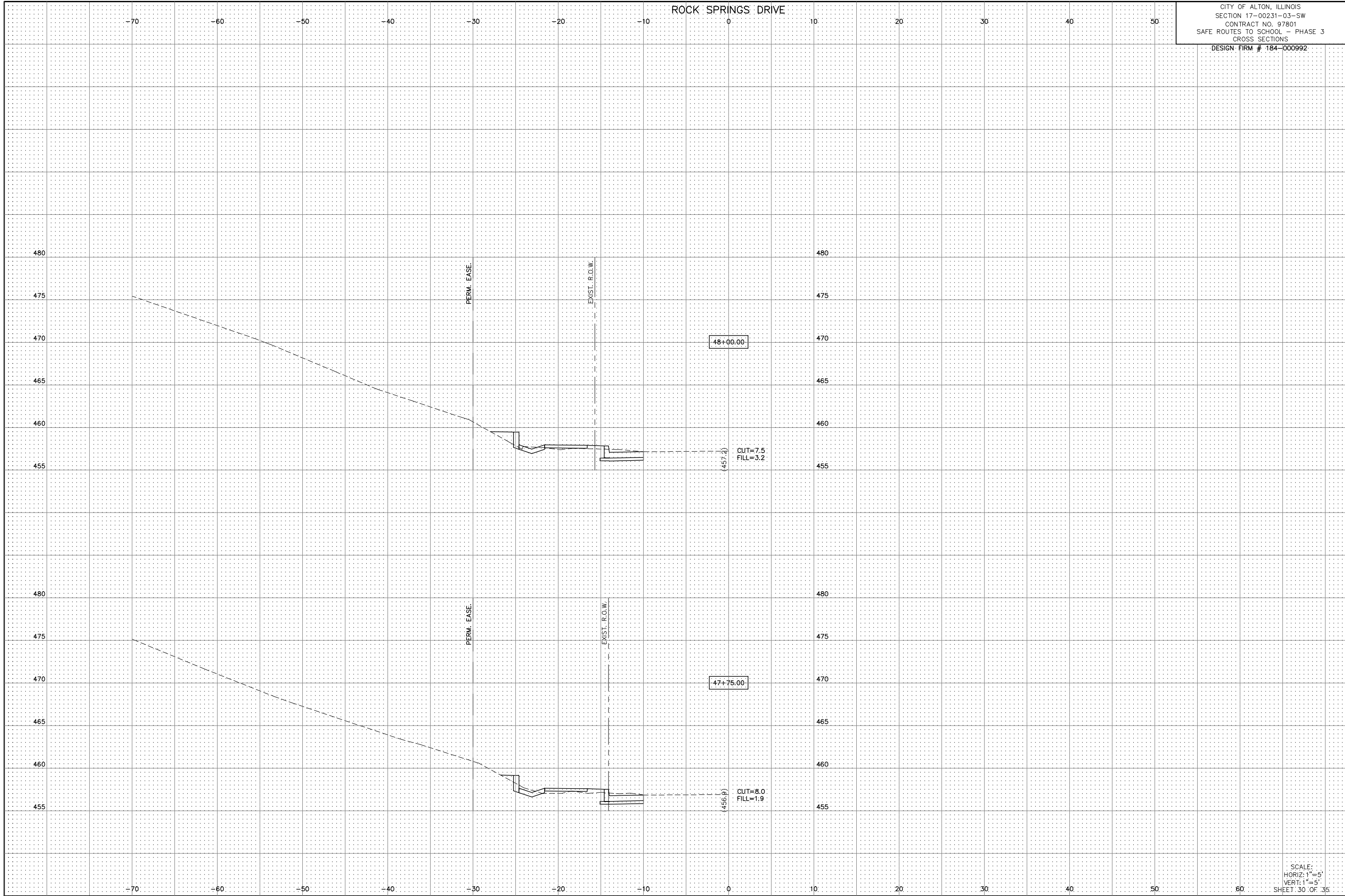
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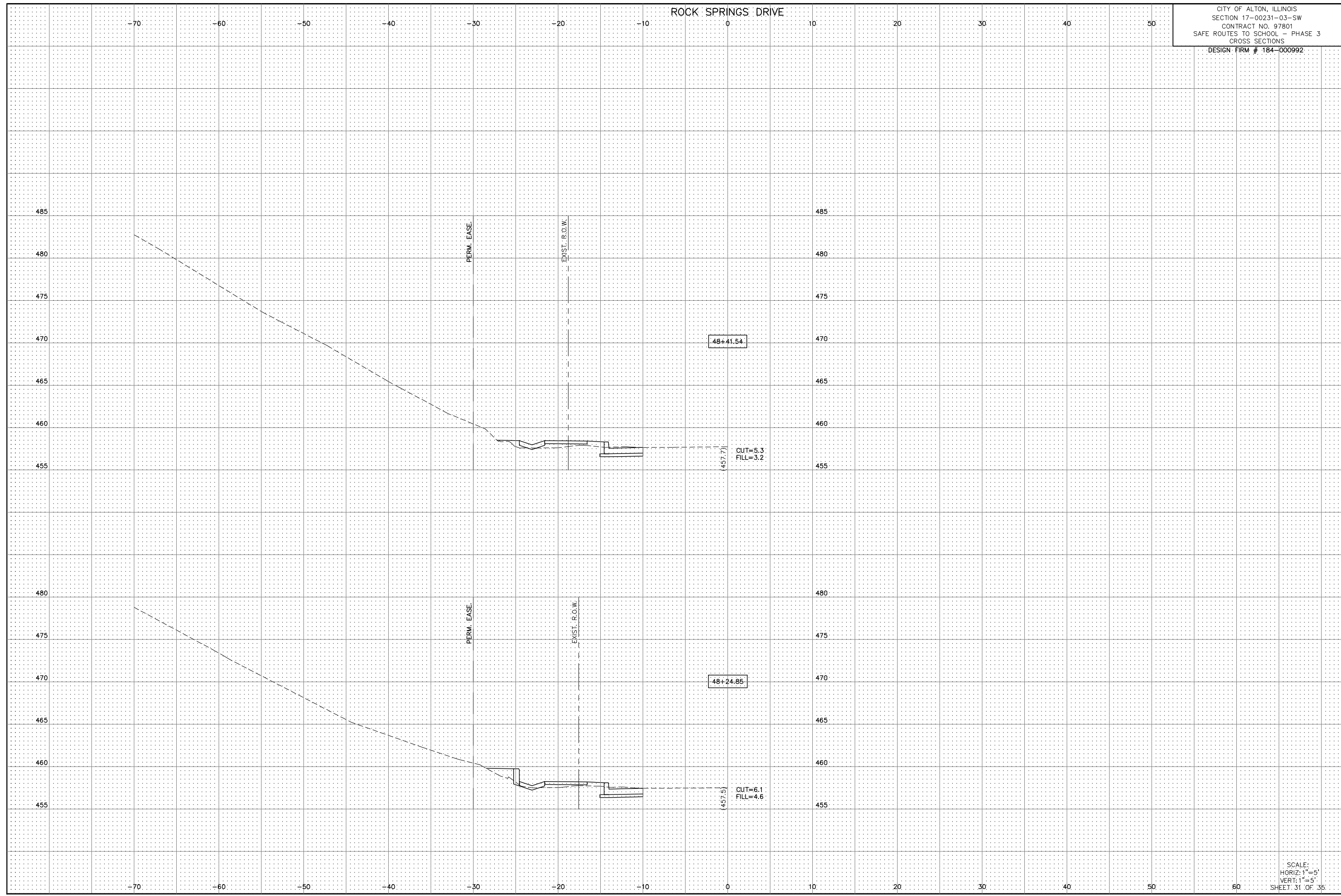
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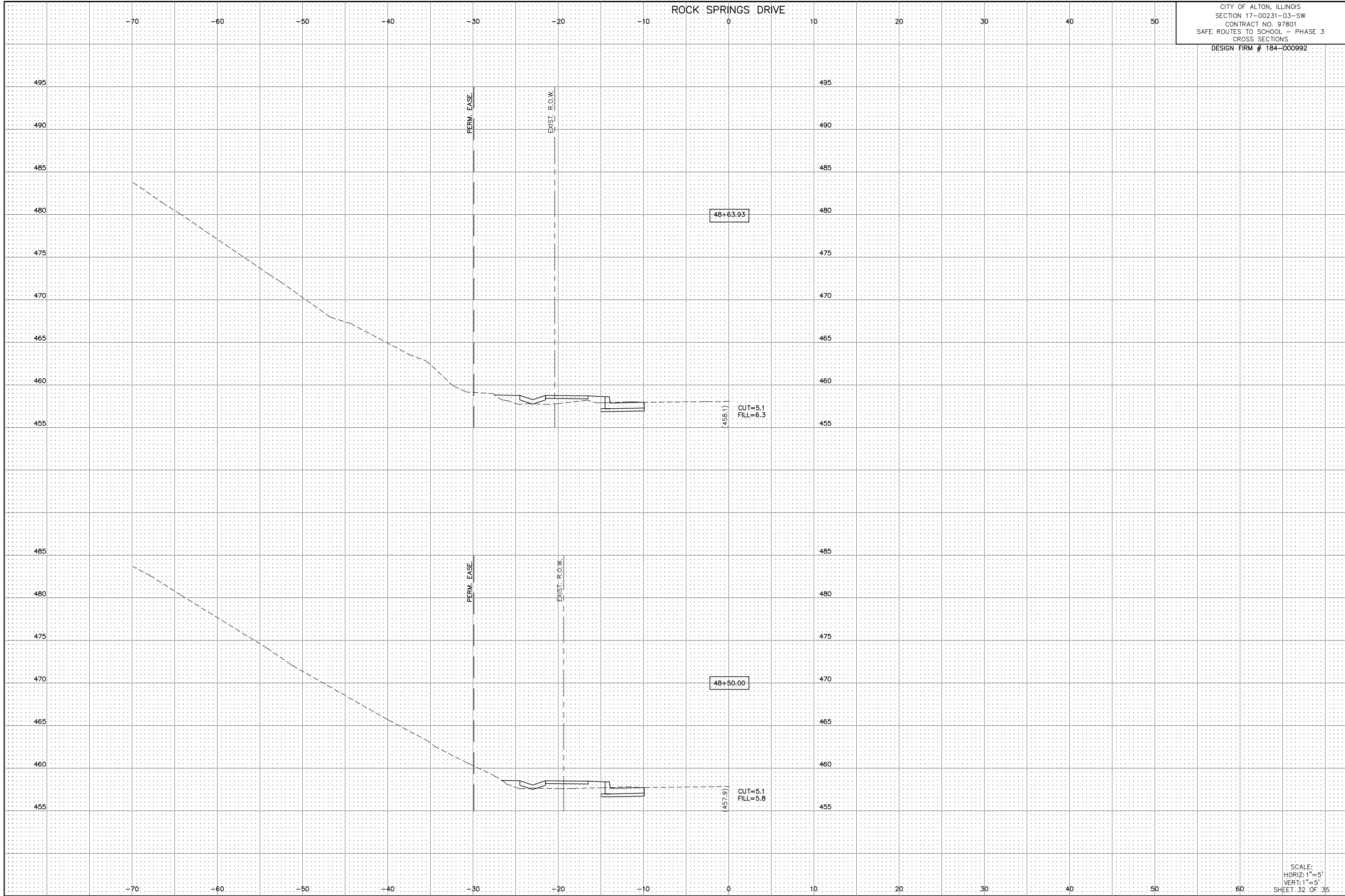
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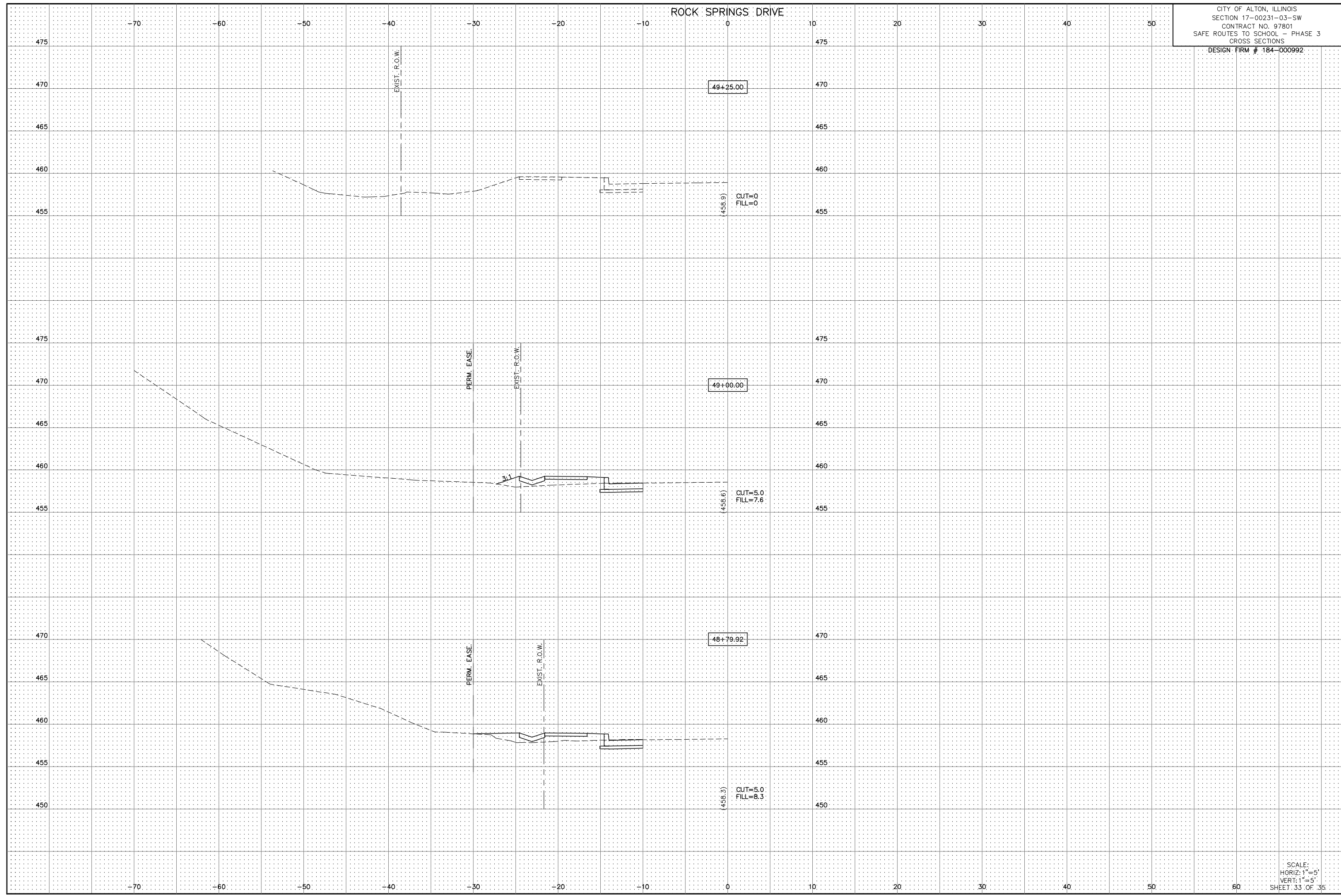
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ROCK SPRINGS DRIVE

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SCALE:
HORIZ: 1"=5'
VERT: 1"=5'
SHEET 33 OF 35

COLLEGE AVENUE

CITY OF ALTON, ILLINOIS
SECTION 17-00231-03-SW
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SAFE ROUTES TO SCHOOL - PHASE 3
CROSS SECTIONS
DESIGN FIRM # 184-000992

-70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 50

-70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 50

480

475

485

480

475

490

485

480

490

485

EXIST. R.O.W.

44+00.00

CUT=8.4
FILL=0.0

EXIST. R.O.W.

43+50.00

CUT=2.2
FILL=0.2

EXIST. R.O.W.

43+00.00

CUT=2.5
FILL=0.0

EXIST. R.O.W.

42+76.70

CUT=0.0
FILL=0.0

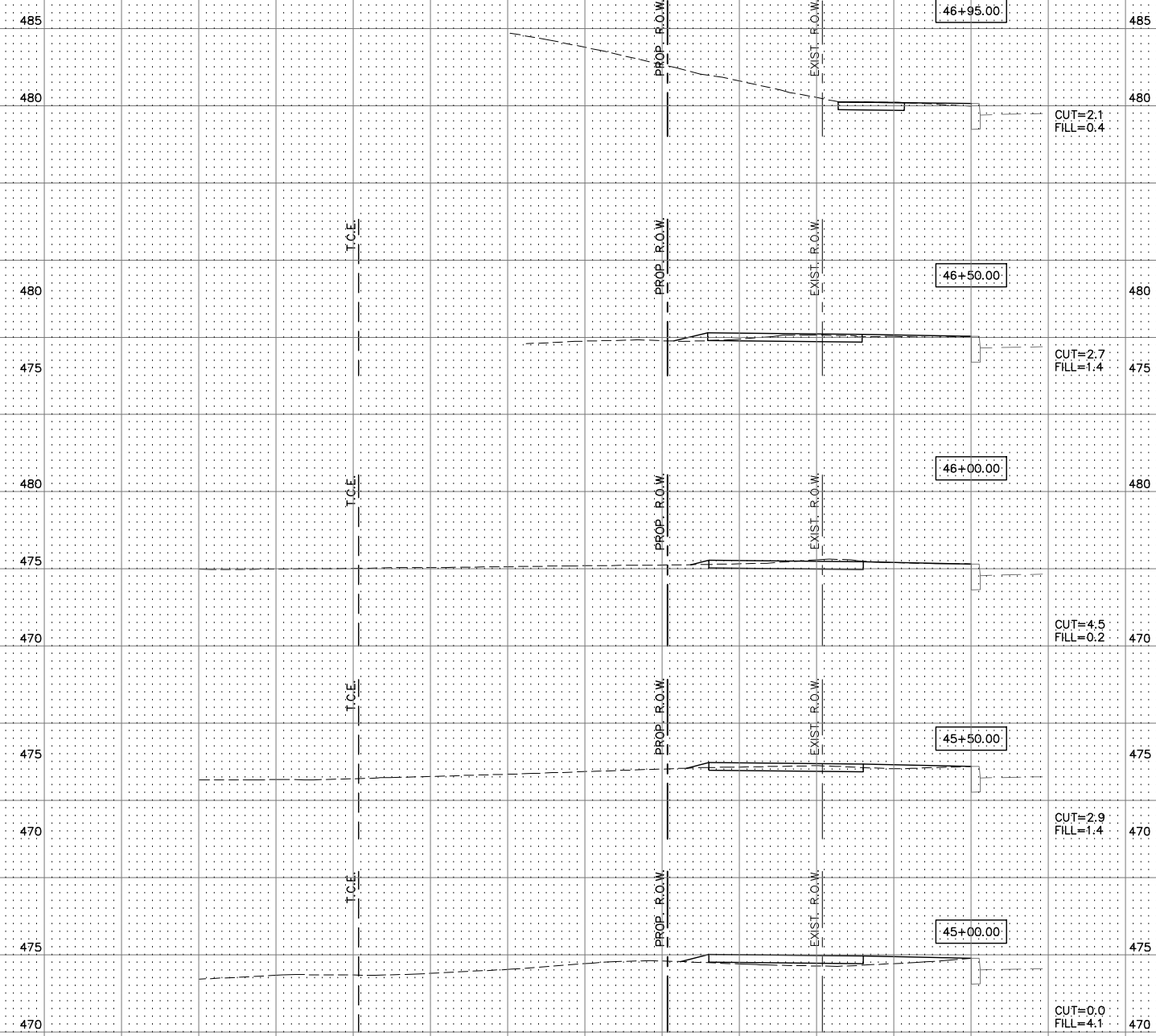
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VERT: 1"=5'
SHEET 34 OF 35

COLLEGE AVENUE

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-70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 50 60



SCALE:
HORIZ: 1"=5'
VERT: 1"=5'
SHEET 35 OF 35