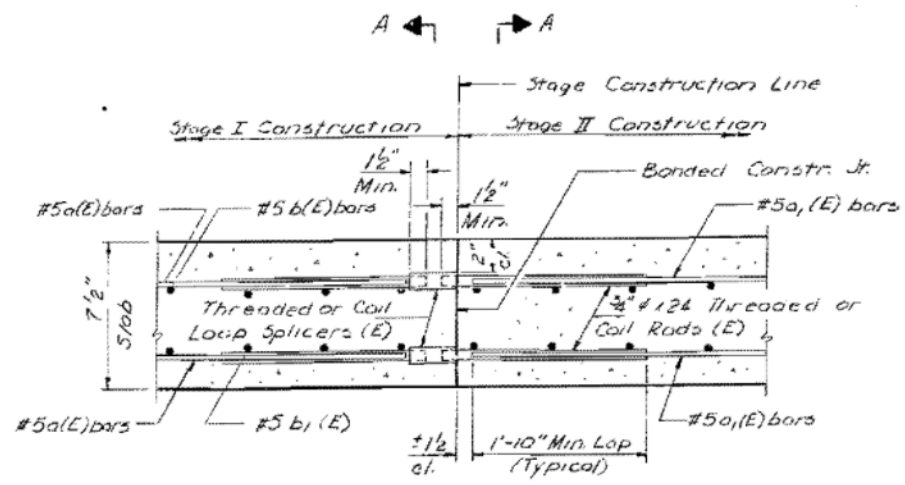
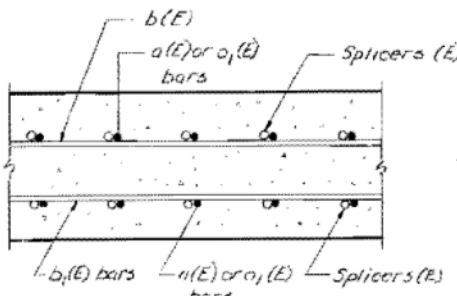


STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DATE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5/4	110R, BR & BR-1	GRUNDY	644	401



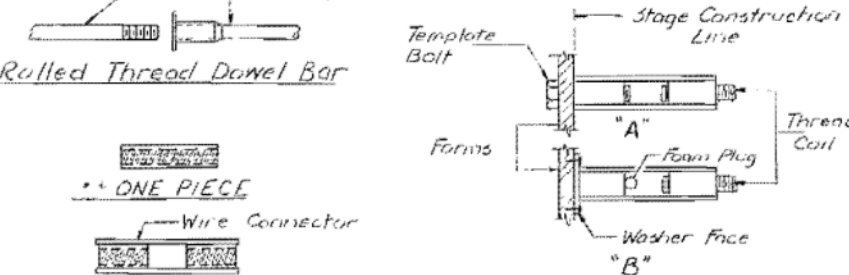
SECTION THRU SLAB
(Looking North)



SECTION A-A

SPLICER DETAILS
(No. Req'd. 243)

This splicer bar is same diameter as bar spliced.
This splicer bar is one size larger diameter than bar spliced.



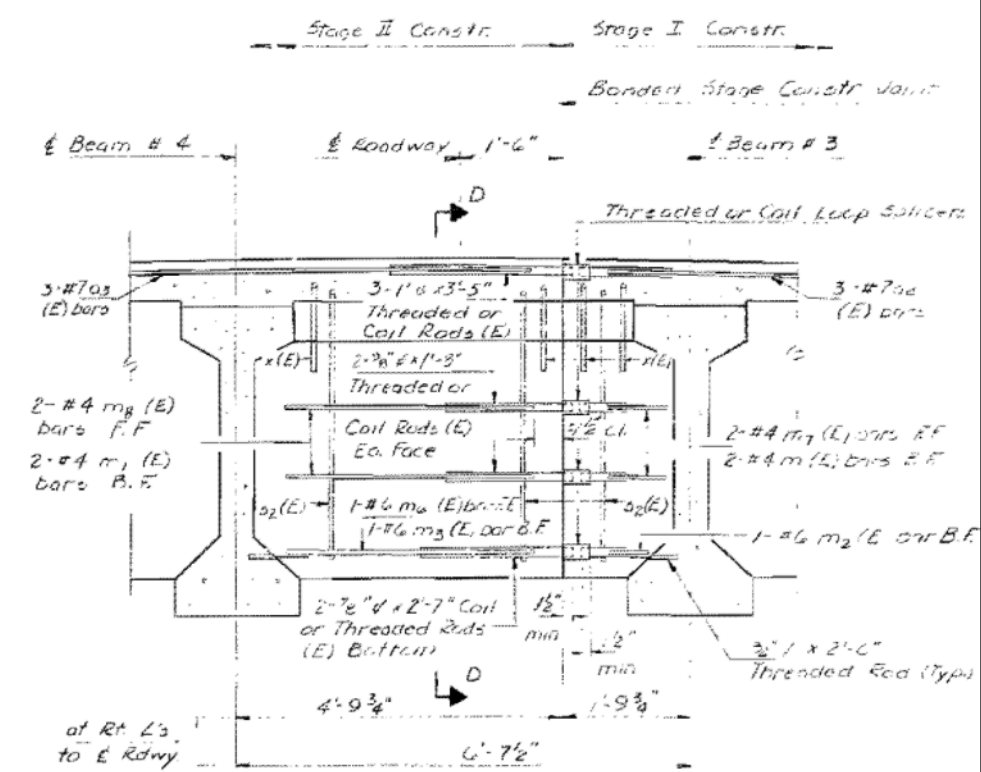
SPLICER ALTERNATIVES

Heavy Hex Nuts conforming to ASTM A563, Grade C, D or DH may be used.

NOTES

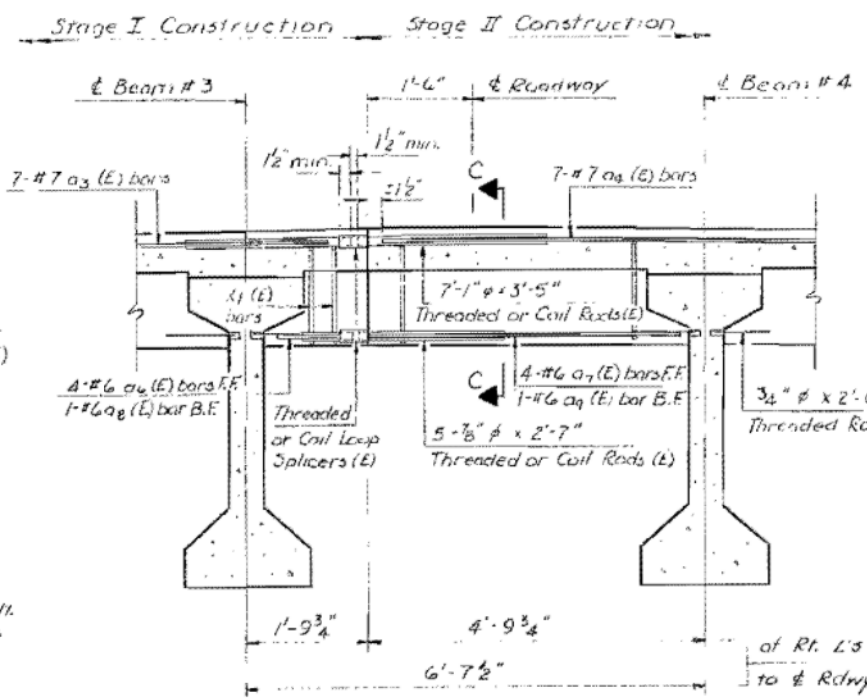
Steel Splicer (Coupler) assembly shall be of an approved type and shall develop in tension at least 125 percent of the yield strength of the lapped reinforcement bars.
Steel Splicer rods shall be of minimum 60 ksi yield strength, threaded or coiled full length and have effective tensile stress area equal or greater than that of the lapped reinforcement bars.
Splicer rods shall extend minimum 1/2 inches into the couplers.
All reinforcement bars shall be lapped and tied to the splicer rods.
Other systems of similar design may be submitted to the Engineer for approval. Approval shall be based on certified test results from an approved testing laboratory that the proposed splicer (coupler) assembly satisfies the following requirements:

- Minimum Capacity (Tension in kips) = $1.25 \times f_y \times A_s$
 - Minimum Pull-out Strength (Tension in kips) = $1.25 \times f_{s,allow} \times A_s$
- Where f_y = Yield strength of lapped reinforcement bars in ksi.
 $f_{s,allow}$ = Allowable tensile stress in lapped reinforcement bars in ksi (Service Load)
 A_s = Tensile stress area of lapped reinforcement bars.
* = 28 day concrete
- Typical Splicer (Coupler) Assembly Sizes:
- | | | |
|---------------|---|---|
| In Slab | #5 bar lap with 3/4" Splicer (Coupler) x 2'-0" Splicer Rods | Minimum Capacity = 23.0 kips-tension
Minimum Pull-out Strength = 9.2 kips-tension |
| In Diaphragms | #4 bar lap with 5/8" Splicer (Coupler) x 1'-8" Splicer Rods | Minimum Capacity = 14.7 kips-tension
Minimum Pull-out Strength = 5.9 kips-tension |
| | #5 bar lap with 7/8" Splicer (Coupler) x 2'-7" Splicer Rods | Minimum Capacity = 33.1 kips-tension
Minimum Pull-out Strength = 13.3 kips-tension |
| | #7 bar lap with 1" Splicer (Coupler) x 3'-5" Splicer Rods | Minimum Capacity = 45.1 kips-tension
Minimum Pull-out Strength = 18.0 kips-tension |



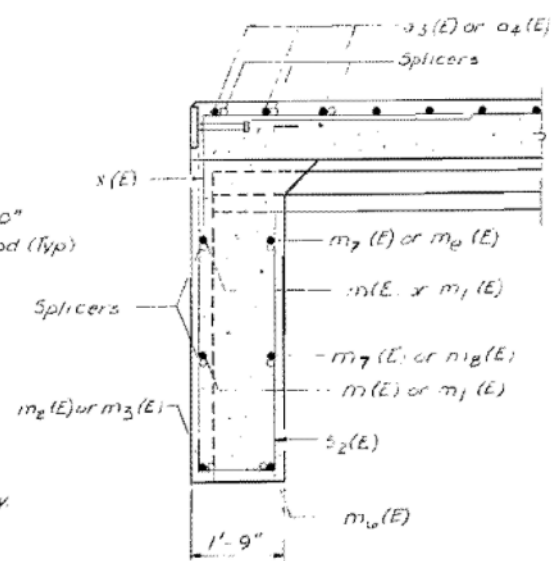
DIAPHRAGM AT SOUTH ABUTMENT

4-#4 bar splicers req'd.
2-#6 bar splicers req'd.
3-#7 bar splicers req'd.
(Looking South)

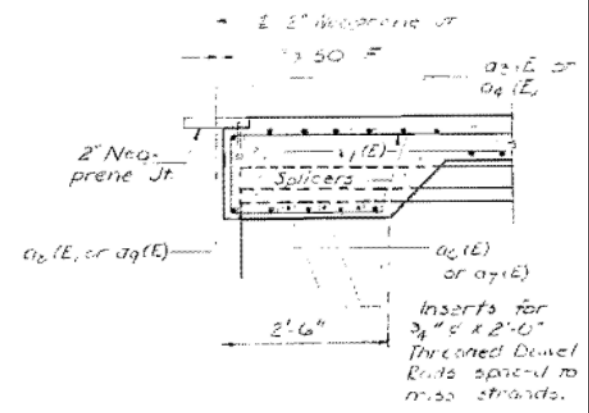


DIAPHRAGM AT NORTH ABUTMENT

5-#6 bar splicers req'd.
7-#7 bar splicers req'd.
(Looking North)



SECTION D-D



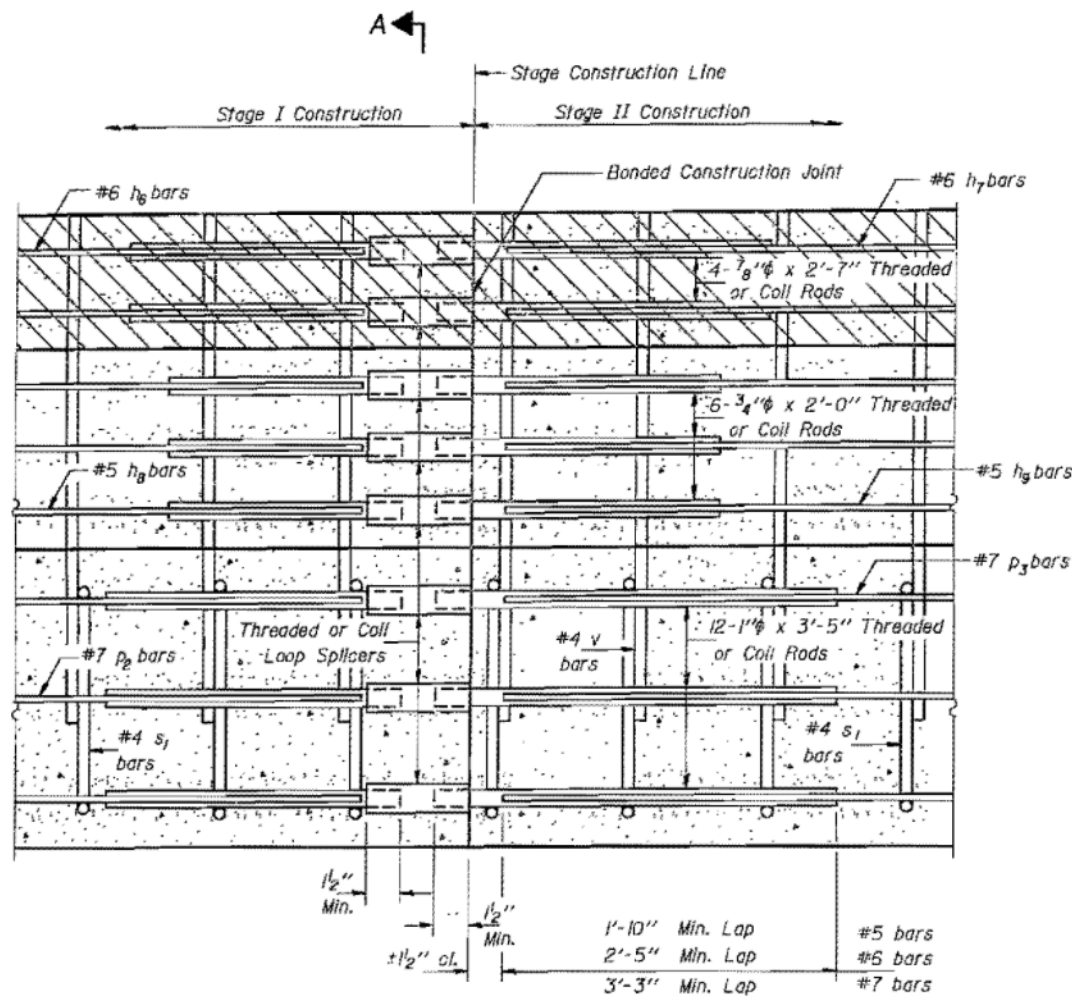
SECTION C-C

FOR INFORMATION ONLY

BAR SPLICER (COUPLER) DETAILS
AT STAGE CONSTRUCTION
FA ROUTE 100 SECTION 110 BR
GRUNDY COUNTY
STATION 136+58.25

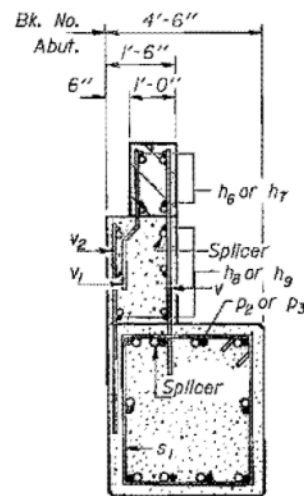
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROJECT NO.	DISTRICT	COUNTY	SHEET NO.	SHEET
			10	55
SHEET NO. 5 15 SHEETS				



SECTION THRU NO. ABUTMENT

No epoxy coating required.
(Looking North)
Number Required
6- #5 bar splicers
4- #6 bar splicers
10- #7 bar splicers

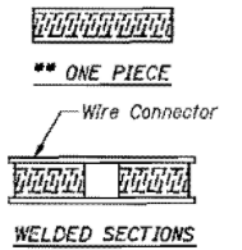


**SECTION A-A
SPLICER DETAILS**

This Splicer Bar is the same diameter as the bar spliced.

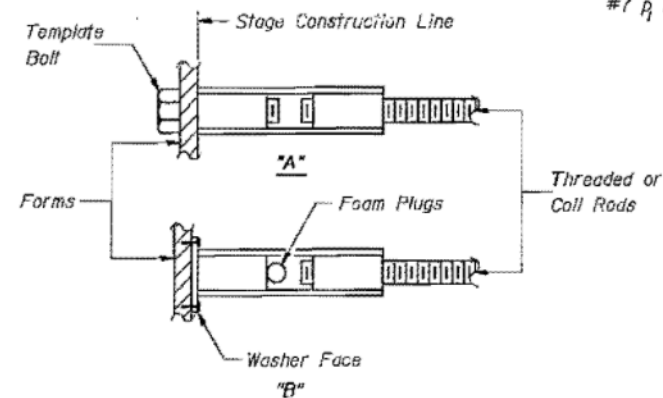
ROLLED THREAD DOWEL BAR

This Splicer Bar is one size larger in diameter than the bar spliced.



SPLICER ALTERNATIVES

** Heavy Hex Nuts conforming to ASTM A 563, Grade C, D or DH may be used.



INSTALLATION AND SETTING METHODS

"A": Set splicer by means of a template bolt.
"B": Set splicer by nailing to wood forms or cementing to steel forms.

NOTES

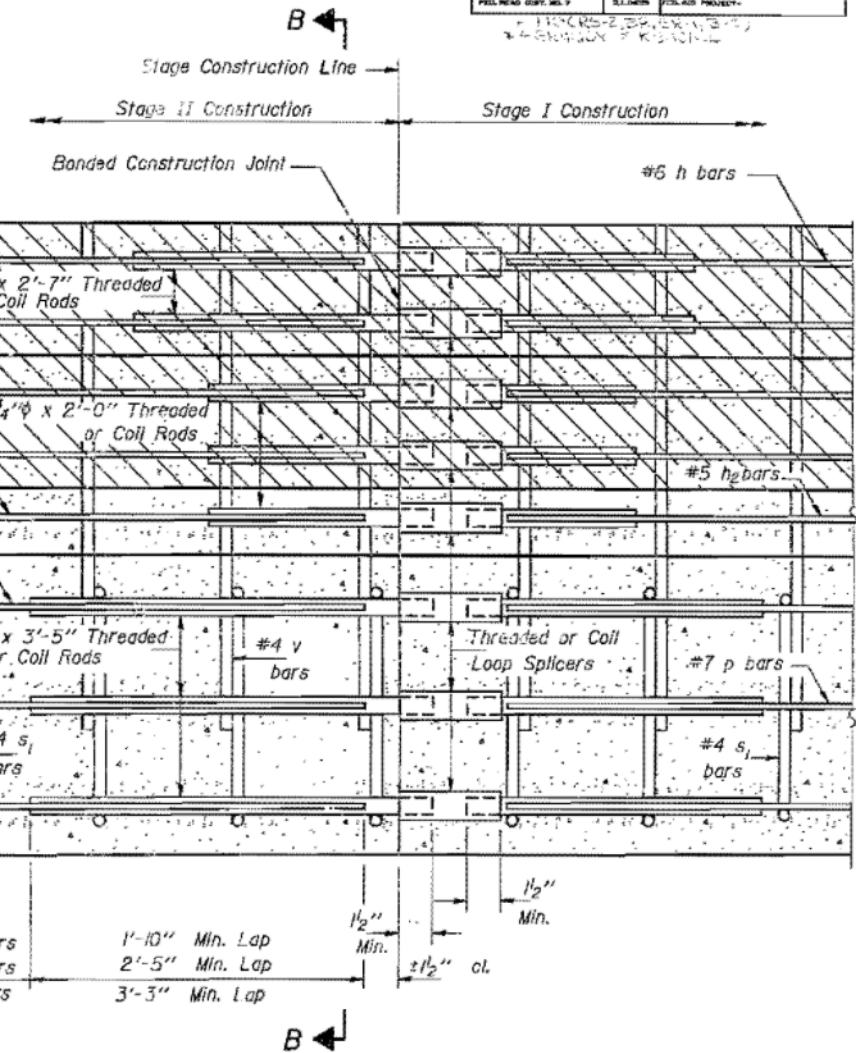
Steel Splicer (Coupler) assembly shall be of an approved type and shall develop in tension at least 125 percent of the yield strength of the lapped reinforcement bars.
Steel Splicer rods shall be of minimum 60 ksi yield strength, threaded or coiled full length and have effective tensile stress area equal or greater than that of the lapped reinforcement bars.
Splicer rods shall extend minimum 1/2 inches into the couplers.
All reinforcement bars shall be lapped and tied to the splicer rods.
Other systems of similar design may be submitted to the Engineer for approval. Approval shall be based on certified test results from an approved testing laboratory that the proposed splicer (coupler) assembly satisfies the following requirements:

- Minimum Capacity = $1.25 \times f_y \times A_1$
(Tension in kips)
- Minimum *Pull-out Strength = $1.25 \times f_{s\ allow} \times A_1$
(Tension in kips)

Where f_y = Yield strength of lapped reinforcement bars in ksi.
 $f_{s\ allow}$ = Allowable tensile stress in lapped reinforcement bars in ksi (Service Load)
 A_1 = Tensile stress area of lapped reinforcement bars.
* = 28 day concrete

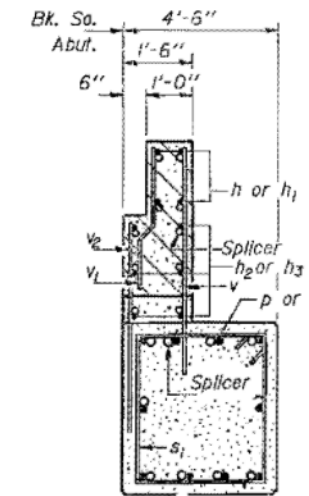
Typical Splicer (Coupler) Assembly Sizes:

#5 bar lap with 3/4" Splicer (Coupler) x 2'-0" Splicer Rods	Minimum Capacity = 23.0 kips-tension Minimum Pull-out Strength = 9.2 kips-tension
#6 bar lap with 7/8" Splicer (Coupler) x 2'-7" Splicer Rods	Minimum Capacity = 33.1 kips-tension Minimum Pull-out Strength = 13.3 kips-tension
#7 bar lap with 1" Splicer (Coupler) x 3'-5" Splicer Rods	Minimum Capacity = 45.1 kips-tension Minimum Pull-out Strength = 18.0 kips-tension



SECTION THRU SO. ABUTMENT

No epoxy coating required.
(Looking South)
Number Required
6- #5 bar splicers
4- #6 bar splicers
10- #7 bar splicers



**SECTION B-B
SPLICER DETAILS**

FOR INFORMATION ONLY

**BAR SPLICER (COUPLER) DETAILS
AT STAGE CONSTRUCTION
F.A. RT. 100 SECTION 110BR
GRUNDY COUNTY
STATION 136+58.25**

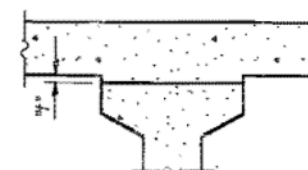
DESIGNED	Victor Vries	EXAMINED	James O. Kaspar
CHECKED	Eve Handy	PASSED	James J. Kasper
DRAWN	Rita Williams	APPROVED	
CHECKED	V.V. Vries		

FILE NAME :	USER NAME :	DESIGNED :	REVISED :
V:\3195\66883 (South Section)\CADD Sheets\10366883-sht-extract-4.dgn	bdecreene	-	-
PLOT SCALE : 2.0000' / in.		CHECKED :	REVISED :
		-	-
SHT.PLAN	PLOT DATE : 8/6/2013	DATE :	REVISED :
		-	-

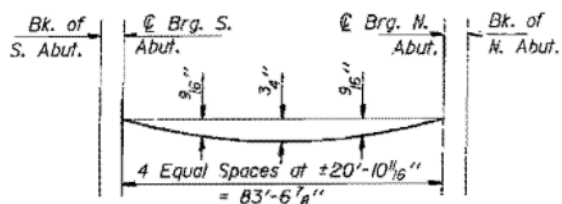
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL. RTE. 47 EXISTING BRIDGE PLANS		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
SCALE: N/A	SHEET 4 OF 23 SHEETS	326	(110)R, BR & BR-1	GRUNDY	644	402
STA. N/A	TO STA. N/A	CONTRACT NO. 66883				
ILLINOIS FED. AID PROJECT						

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



ROUTE NO.	SECTION	POST-MILE	SHEET NO.	SHEET NO.
100		110	50	15
TOTAL SHEETS				



DEAD LOAD DEFLECTION DIAGRAM

(Includes weight of concrete slab only)

Note: The above deflections are not to be used in the field if the engineer is working from the grade elevations adjusted for dead load deflections as shown below.

FOR INFORMATION ONLY

To determine "f": After all precast prestressed beams have been erected, elevations of the top flanges of the beams shall be taken at intervals shown below. These elevations subtracted from the "Theoretical Grade Elevations Adjusted For Dead Load Deflections" minus slab thickness, equals the fillet heights "f" above top flanges of beams.

FILLET HEIGHTS

BEAM #1

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abut.	13597.587	-16.563	570.278	570.278
€ Brg. S. Abut.	13601.545	-16.563	570.278	570.278
A	13611.545	-16.563	570.278	570.301
B	13621.545	-16.563	570.278	570.324
C	13631.545	-16.563	570.278	570.347
D	13641.545	-16.563	570.278	570.370
E	13651.545	-16.563	570.278	570.393
F	13661.545	-16.563	570.278	570.416
G	13671.545	-16.563	570.278	570.439
€ Brg. N. Abut.	13685.118	-16.563	570.278	570.278
Bk. N. Abut.	13689.087	-16.563	570.278	570.278

BEAM #2

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abut.	13603.552	-9.938	570.405	570.405
€ Brg. S. Abut.	13607.511	-9.938	570.405	570.405
A	13617.511	-9.938	570.405	570.428
B	13627.511	-9.938	570.405	570.451
C	13637.511	-9.938	570.405	570.474
D	13647.511	-9.938	570.405	570.497
E	13657.511	-9.938	570.405	570.520
F	13667.511	-9.938	570.405	570.543
G	13677.511	-9.938	570.405	570.566
€ Brg. N. Abut.	13691.083	-9.938	570.405	570.405
Bk. N. Abut.	13695.052	-9.938	570.405	570.405

BEAM #3

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abut.	13609.517	-3.313	570.508	570.508
€ Brg. S. Abut.	13613.476	-3.313	570.508	570.508
A	13623.476	-3.313	570.508	570.531
B	13633.476	-3.313	570.508	570.554
C	13643.476	-3.313	570.508	570.577
D	13653.476	-3.313	570.508	570.600
E	13663.476	-3.313	570.508	570.623
F	13673.476	-3.313	570.508	570.646
G	13683.476	-3.313	570.508	570.669
€ Brg. N. Abut.	13697.049	-3.313	570.508	570.508
Bk. N. Abut.	13701.017	-3.313	570.508	570.508

BONDED STAGE CONSTRUCTION JOINT

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abut.	13611.149	-1.500	570.537	570.537
€ Brg. S. Abut.	13615.108	-1.500	570.537	570.537
A	13625.108	-1.500	570.537	570.560
B	13635.108	-1.500	570.537	570.583
C	13645.108	-1.500	570.537	570.606
D	13655.108	-1.500	570.537	570.629
E	13665.108	-1.500	570.537	570.652
F	13675.108	-1.500	570.537	570.675
G	13685.108	-1.500	570.537	570.698
€ Brg. N. Abut.	13698.681	-1.500	570.537	570.537
Bk. N. Abut.	13702.649	-1.500	570.537	570.537

P.G.

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abut.	13612.500	0.000	570.560	570.560
€ Brg. S. Abut.	13616.458	0.000	570.560	570.560
A	13626.458	0.000	570.560	570.583
B	13636.458	0.000	570.560	570.606
C	13646.458	0.000	570.560	570.629
D	13656.458	0.000	570.560	570.652
E	13666.458	0.000	570.560	570.675
F	13676.458	0.000	570.560	570.698
G	13686.458	0.000	570.560	570.721
€ Brg. N. Abut.	13700.031	0.000	570.560	570.560
Bk. N. Abut.	13704.000	0.000	570.560	570.560

BEAM #4

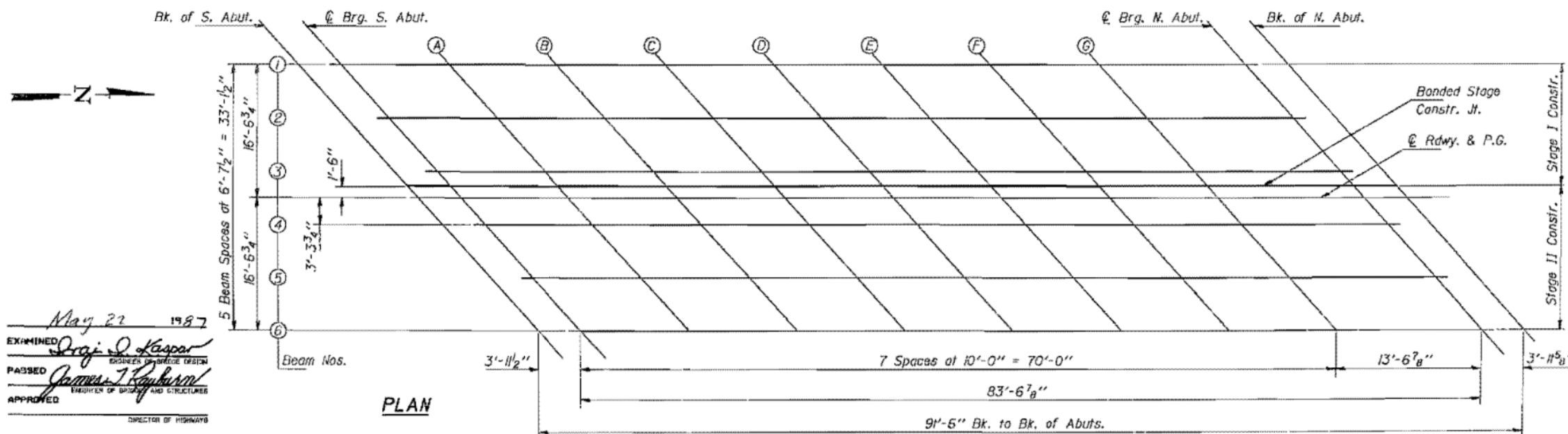
Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abut.	13615.483	3.313	570.508	570.508
€ Brg. S. Abut.	13619.441	3.313	570.508	570.508
A	13629.441	3.313	570.508	570.531
B	13639.441	3.313	570.508	570.554
C	13649.441	3.313	570.508	570.577
D	13659.441	3.313	570.508	570.600
E	13669.441	3.313	570.508	570.623
F	13679.441	3.313	570.508	570.646
G	13689.441	3.313	570.508	570.669
€ Brg. N. Abut.	13703.014	3.313	570.508	570.508
Bk. N. Abut.	13706.983	3.313	570.508	570.508

BEAM #5

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abut.	13621.448	9.938	570.405	570.405
€ Brg. S. Abut.	13625.406	9.938	570.405	570.405
A	13635.406	9.938	570.405	570.428
B	13645.406	9.938	570.405	570.451
C	13655.406	9.938	570.405	570.474
D	13665.406	9.938	570.405	570.497
E	13675.406	9.938	570.405	570.520
F	13685.406	9.938	570.405	570.543
G	13695.406	9.938	570.405	570.566
€ Brg. N. Abut.	13708.979	9.938	570.405	570.405
Bk. N. Abut.	13712.948	9.938	570.405	570.405

BEAM #6

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abut.	13627.413	16.563	570.278	570.278
€ Brg. S. Abut.	13631.371	16.563	570.278	570.278
A	13641.371	16.563	570.278	570.301
B	13651.371	16.563	570.278	570.324
C	13661.371	16.563	570.278	570.347
D	13671.371	16.563	570.278	570.370
E	13681.371	16.563	570.278	570.393
F	13691.371	16.563	570.278	570.416
G	13701.371	16.563	570.278	570.439
€ Brg. N. Abut.	13714.914	16.563	570.278	570.278
Bk. N. Abut.	13718.913	16.563	570.278	570.278



DESIGNED VICTOR VELTZ
 CHECKED Eric Amundson
 DRAWN Rita Williams
 CHECKED V.V. F.L.G. fmpg

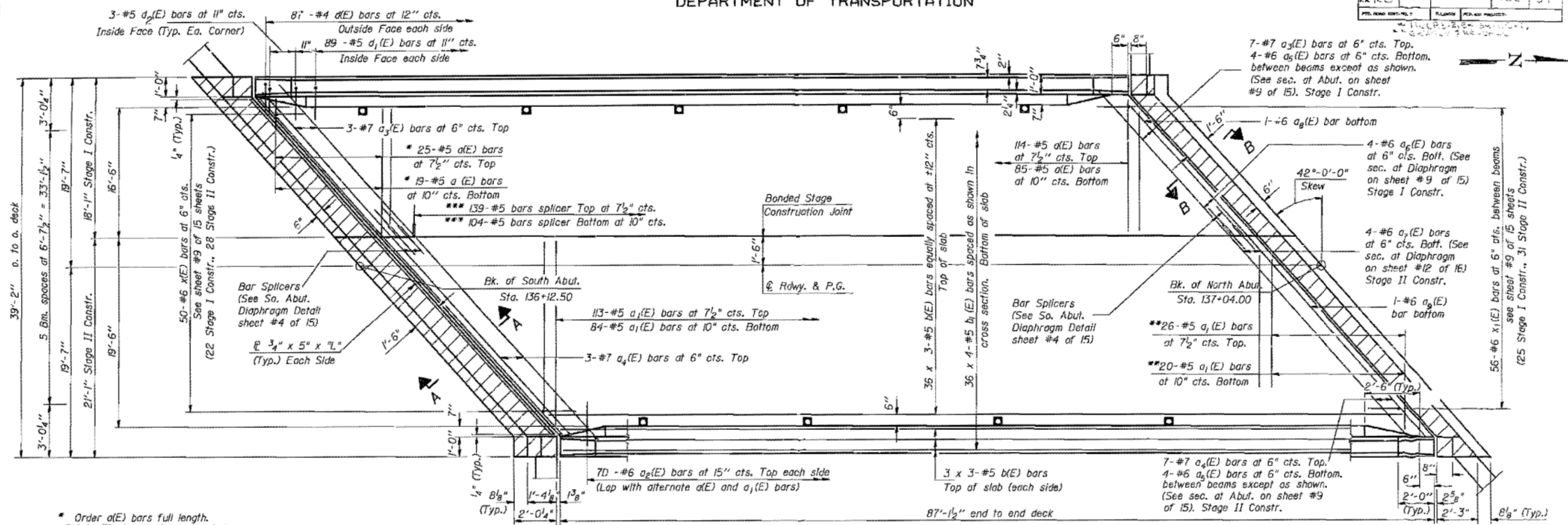
EXAMINED *Dr. J. Kasper*
 PASSED *James J. Rayburn*
 APPROVED _____

May 22 1987

TOP OF SLAB ELEVATIONS
 F.A. RT. 100 SEC. 110BR
 GRUNDY COUNTY
 STA. 136+58.25

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROJECT NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A. 100	BR & BR-1	GRUNDY	644	404
CONTRACT NO. 66883				15 SHEETS



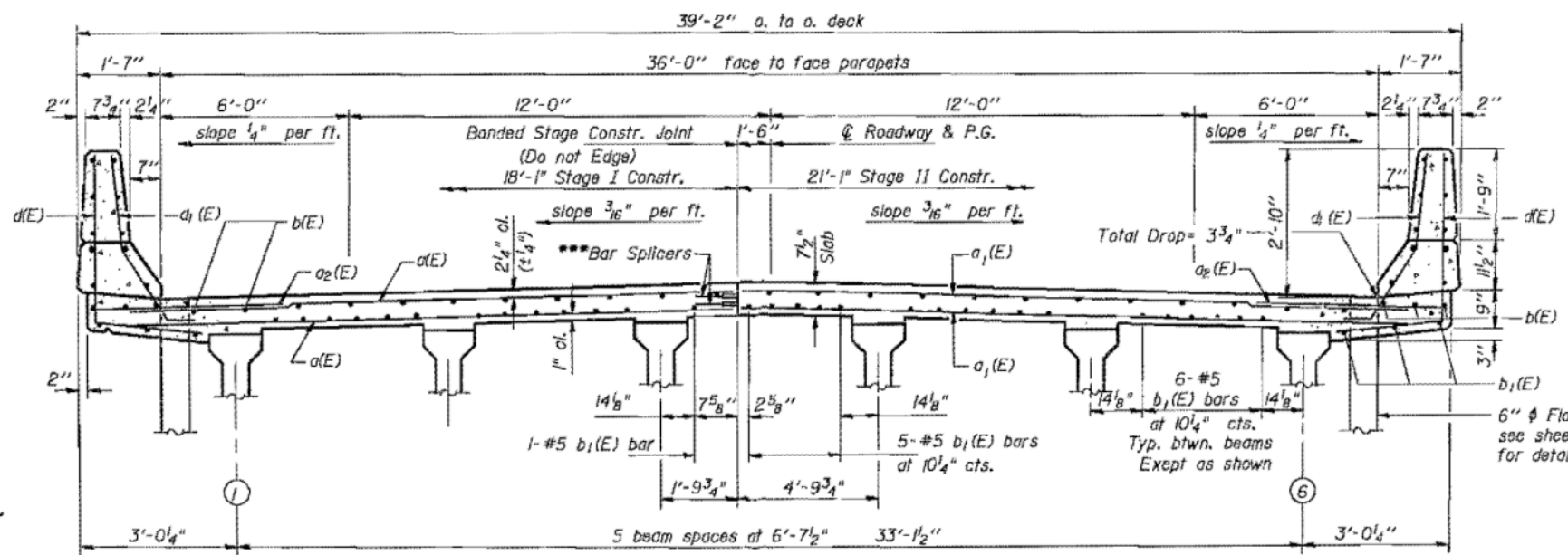
* Order a(E) bars full length. Cut to fit skew and use remainder of bars in opposite end Stage I Constr.
 ** Order a₁(E) bars full length. Cut to fit skew and use remainder of bars in opposite end Stage II Constr.

Min. Bar Lap
#5 bar - 1'-9"

DIMENSION "L"

Stage I constr. = 22'-11 1/2"
 Stage II Constr. = 27'-0"

*** Bar splicers lapped with a(E) & a₁(E) bars shall be tied with double the number of ties normally used.



Notes: See sheet #8 of 15 for superstructure details and Bill of Material.
 See Sheet #9 of 15 for Section A-A and Section B-B.
 Reinforcement bars designated (E) shall be epoxy coated.
 Bars indicated thus 20 x 3-#5 etc. indicates 20 lines of bars with 3 lengths per line.
 See sheet #5 of 15 sheets for bar splicer details.
 Hatched area to be poured after superstructure forms have been removed.
 Quantity of "Class X Concrete Superstructure" billed with superstructure, see sheet #8 of 15.

FOR INFORMATION ONLY

SUPERSTRUCTURE
F.A. RT. 100 SEC. 110BR
GRUNDY COUNTY
STA. 136+58.25

DESIGNED	VECTOR VELTZ	EXAMINED	May 22 1982
CHECKED	Eva Lowery	PASSED	James J. Kasper
DRAWN	Rita Williams	APPROVED	Director of Highways
CHECKED	V.V. EFG pmp		

CROSS SECTION
(Looking North)

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL. RTE. 47
EXISTING BRIDGE PLANS

FILE NAME	USER NAME	DESIGNED	REVISED	SCALE	SHEET	OF	TOTAL SHEETS	SHEET NO.
V:\3195\66883 (South Section)\CADD Sheets\0366883-shr-exstruct-6.dgn	bdecaene	-	-	N/A	6	OF	23	404
PLOT SCALE	DATE	CHECKED	REVISED	STA.	TO STA.		CONTRACT NO.	
2:0000' / 1"	8/6/2013	-	-	N/A	N/A		66883	

Joint Size	"C" at 50°F	"D" at 50°F
2"	2"	1 1/2" Min.
2 1/2"	2 1/2"	1 3/4" Min.
4"	3"	2 1/2" Min.

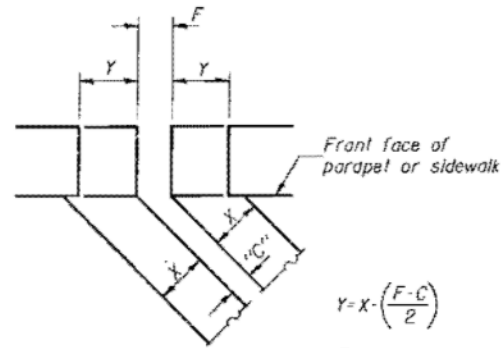
INSTALLATION NOTES

1. Install sponge mandrels into positions shown to form flap convolution.
2. Install parapet or sidewalk piece (trim roadway flap to fit before applying epoxy).
3. Install continuous seal in roadway.
4. Install anchor blocks as indicated.

NOTE A: Maximum spacing of anchor bolts shall be 12" centers.

SKEW LIMITATIONS

The details of the anchor blocks and the elastomeric membrane in the parapet, as shown, are for up to 50° skews. For skews greater than 50°, the anchor blocks and the elastomeric membrane, installed in accordance with dimension "D", might require modifications to insure a minimum clearance of 1/2" from centerline of anchor studs to edge of parapet opening. The anchor blocks and the elastomeric membrane shall also be installed to the top of the parapet with the anchor studs spaced at ±12" cts.

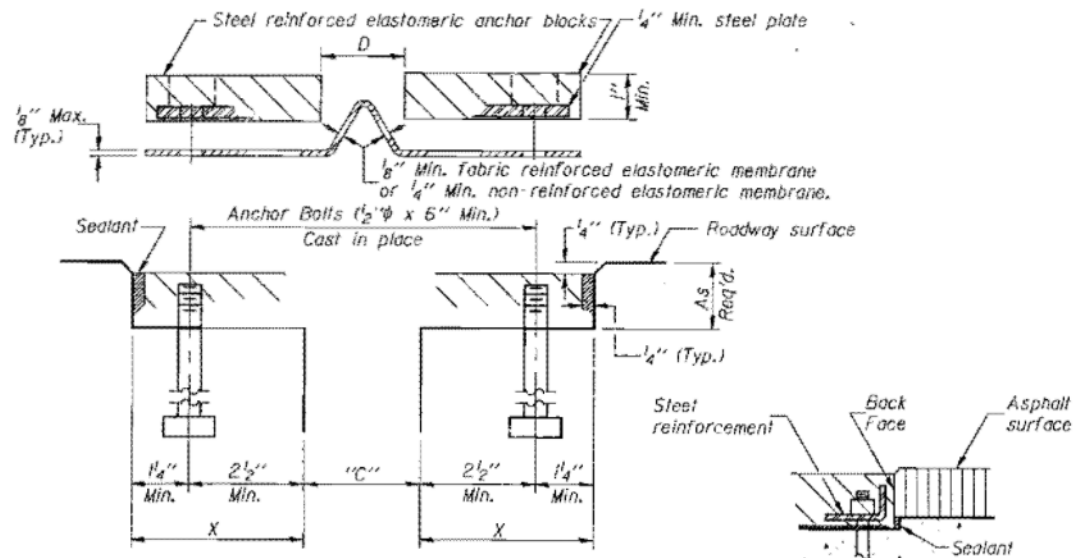


FORMING BLOCKOUT SKETCH

$$Y = X \cdot \left(\frac{F - C}{2} \right)$$

For dimension "F" see sheet # 7 of 15.

DEPARTMENT OF TRANSPORTATION

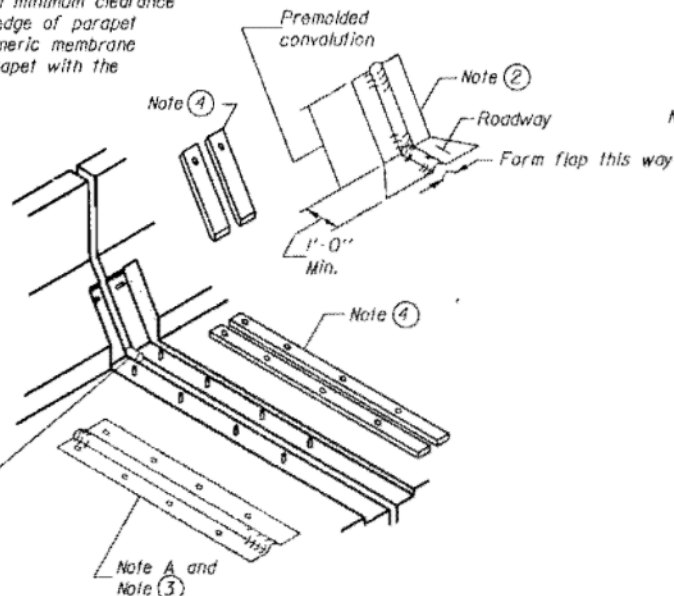


CROSS SECTION

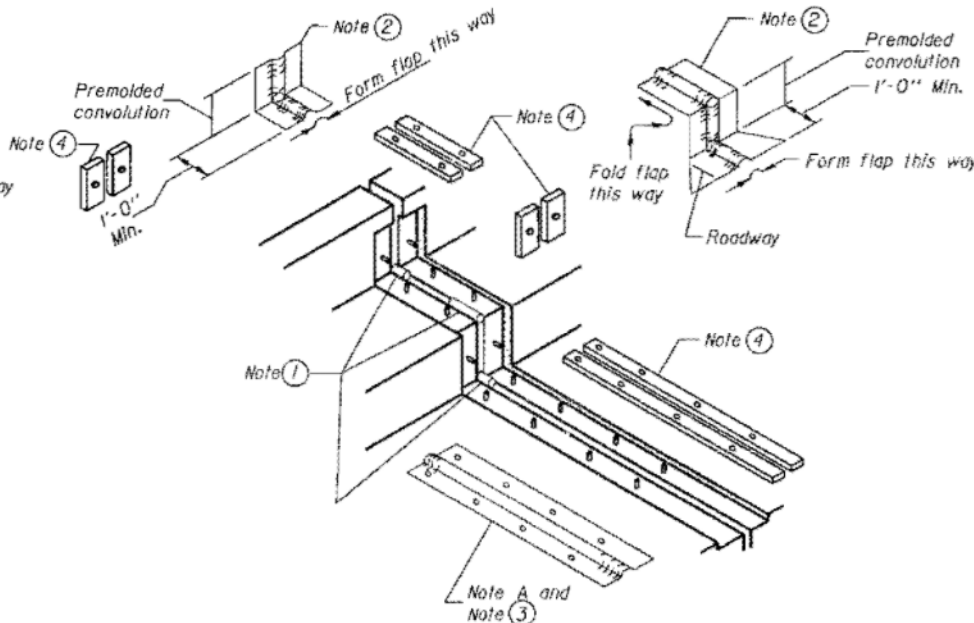
ANCHOR BLOCK REINFORCEMENT WITH ASPHALT SURFACE

GENERAL NOTES

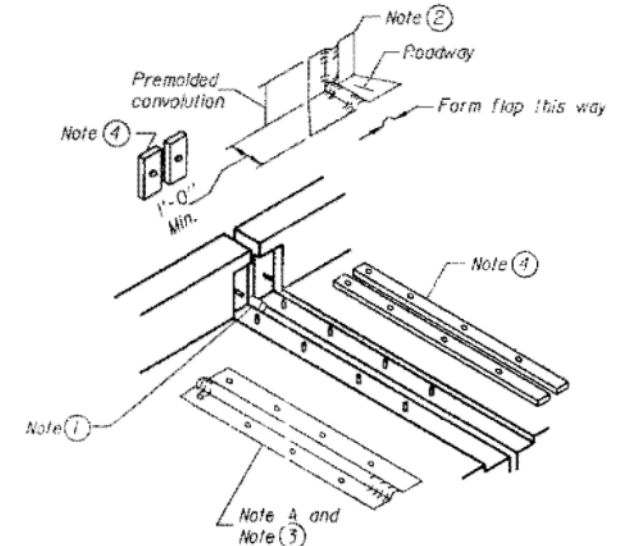
Continuous Seal Neoprene Expansion Joint shall consist of molded anchor blocks of elastomer and steel, field assembled over continuous lengths of elastomeric membrane. See Special Provisions.
 The elastomeric membrane shall be premolded with a single or a double upward convolution that will have a "memory" to return to its molded position upon joint closure.
 The steel reinforcement must extend up the back face of anchor blocks when asphalt surfaces are used but is optional in concrete blockout.
 The convolution length shall be such that the extended length will not be greater than the manufactured length when the joint is fully expanded in its design range and will not protrude above the anchor blocks when the joint is fully compressed.
 Joint openings shall be adjusted in accordance with Article 503.07(c) of the Standard Specifications when the deck is poured at an ambient temperature other than 50° F.
 The parapet and sidewalk flaps may be furnished factory vulcanized to the roadway membrane provided the centerline of the convolution is maintained and the process and method meet the approval of the Engineer.
 Anchor bolts, washers and nuts, to be placed against corrosion in accordance with the special provisions, shall be zinc-coated by the mechanical plating method conforming to ASTM B65 class 50. Zinc-coated nuts shall be topped over size in accordance with the requirements of AASHTO M291 and shall meet the supplemental requirements 51.1 thru 51.2.1 of the same specifications for lubricant and testing.



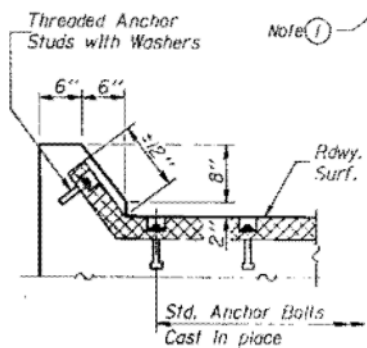
AT PARAPET



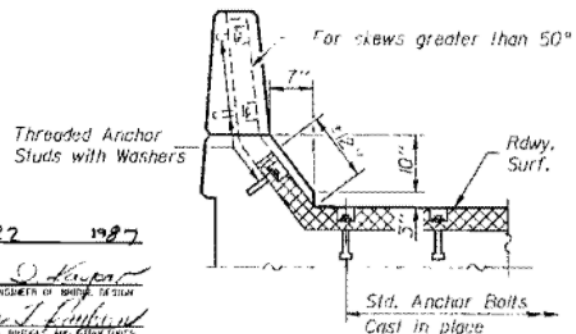
AT SIDEWALK OR MEDIAN



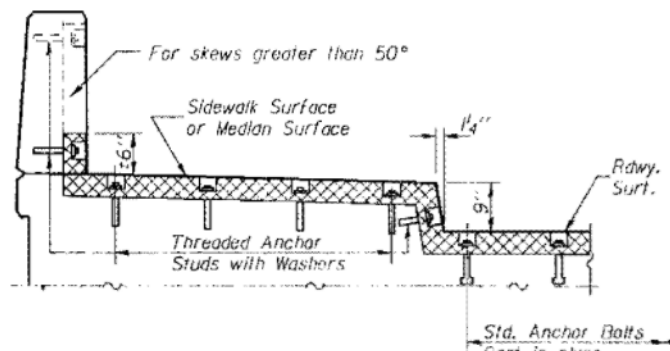
AT WALL



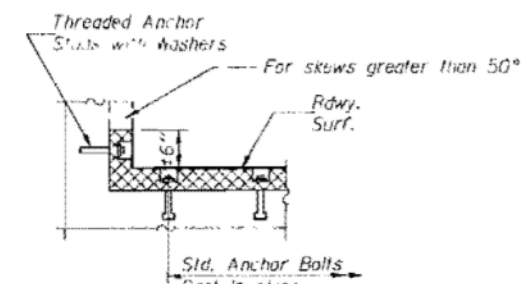
AT CURB



AT PARAPET



AT SIDEWALK OR MEDIAN TYPICAL END TREATMENTS



AT WALL

FOR INFORMATION ONLY

CONTINUOUS SEAL TYPE NEOPRENE EXPANSION JOINTS
 For 2", 2 1/2" and 4" Movement

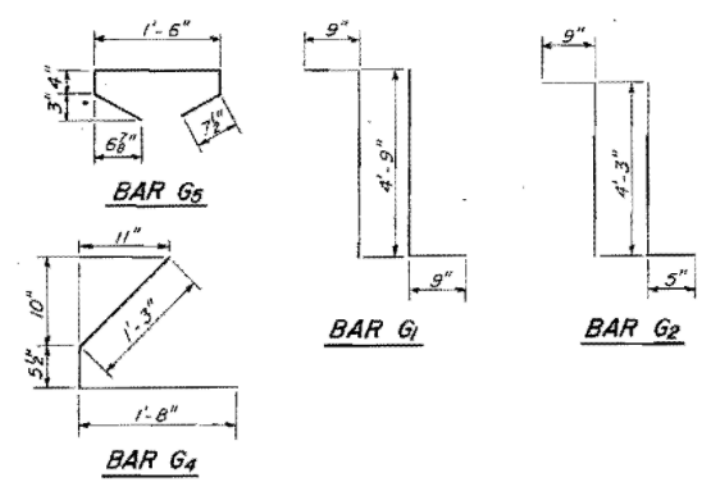
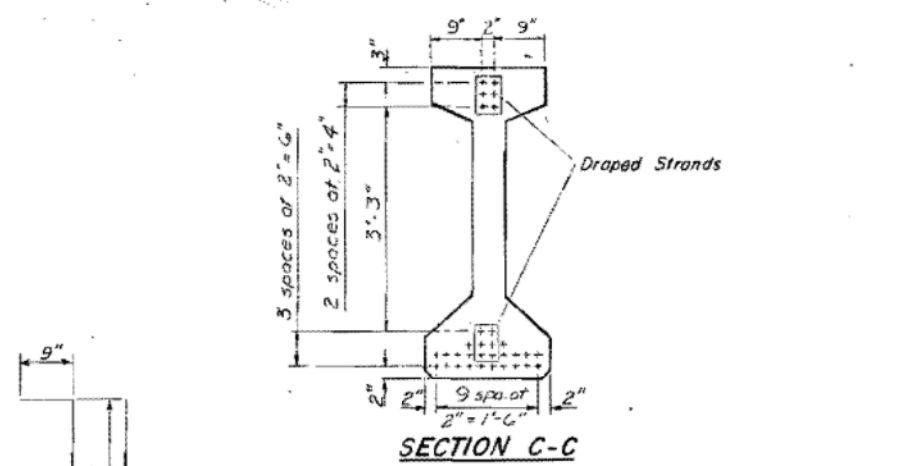
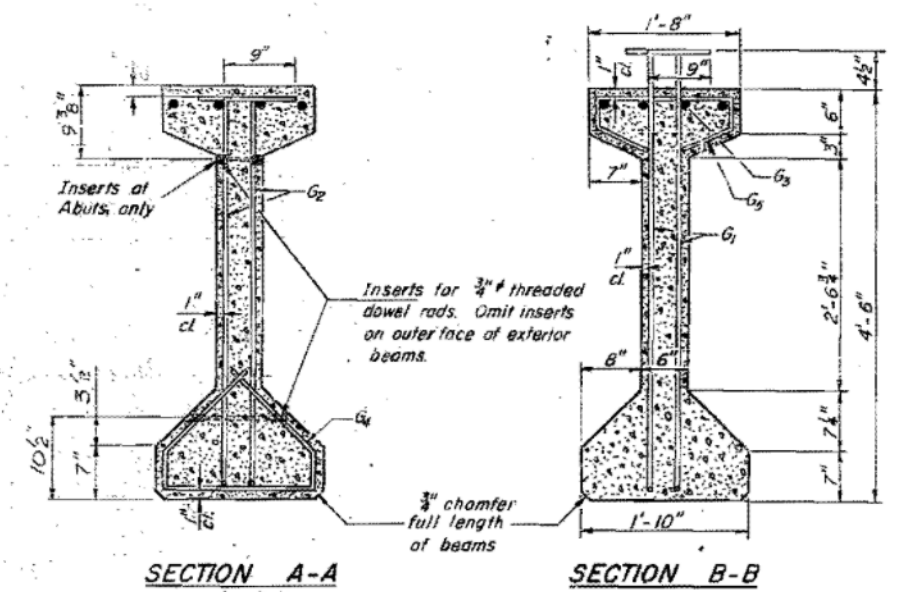
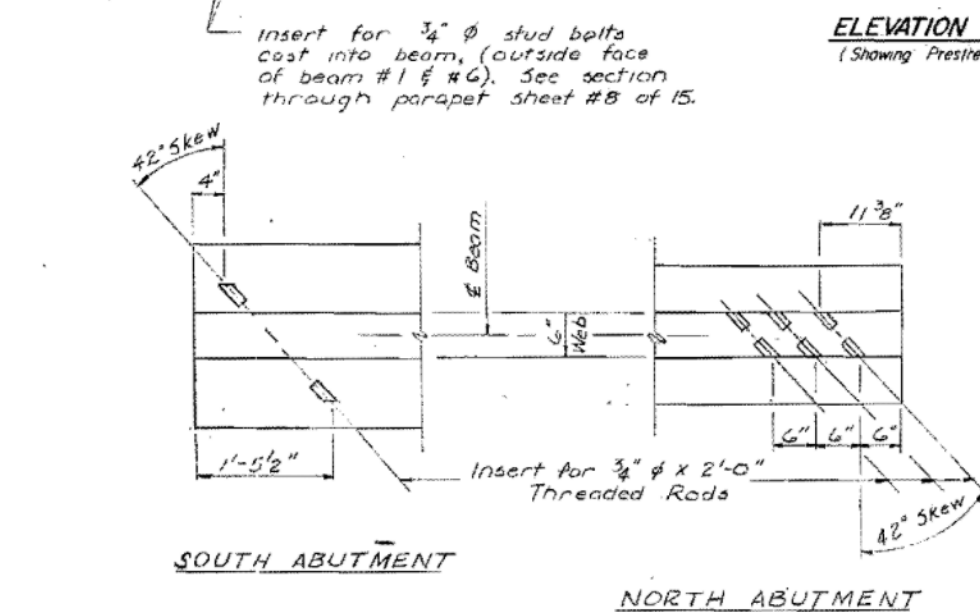
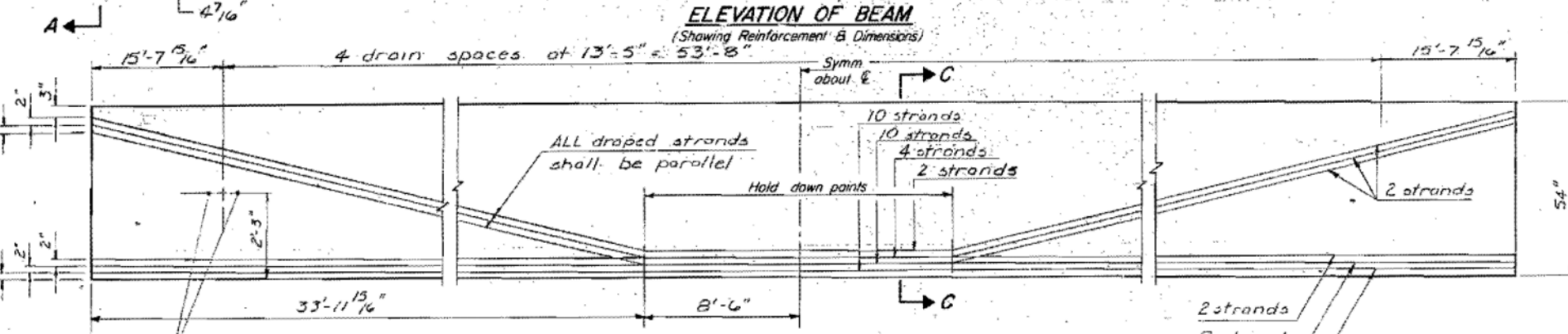
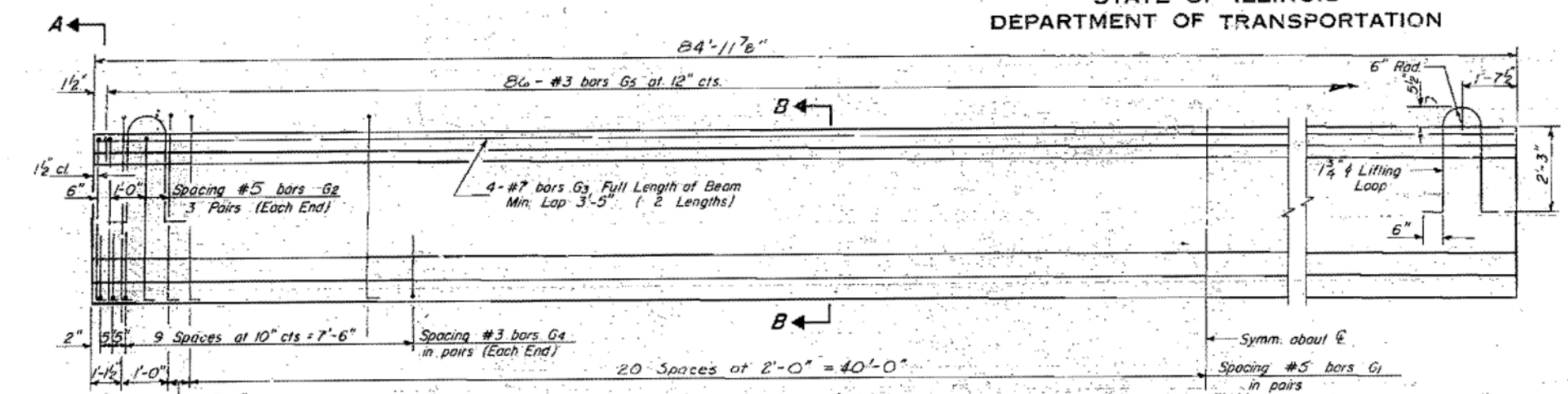
FA ROUTE 100 SECTION 110
 GRUNDY COUNTY
 STATION 136 + 58.25

DESIGNED VECTOR VELTZ
 CHECKED Eric Blawie
 DRAWN RITA WILLIAMS
 CHECKED V.V. EEG pmp
 E.J.-CS 12-1-83

EXAMINED May 22 1987
 PASSED
 APPROVED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROJECT NO.	SECTION	SHEET	NO.	SHEET NO. OF
100	4	106	61	15



***BAR LIST**

Bar	No.	Size	Length	Shape
G1	90	#5	6'-3"	7L
G2	12	#5	5'-5"	7L
G3	B	#7	44'-3"	—
G4	48	#3	3'-4 1/2"	L
G5	86	#3	3'-5"	□

* For one beam only.

BILL OF MATERIAL

Item	Unit	Total
Furnishing & Erecting Precast Prestressed Concrete I-Beams, 54"	Lin. Ft.	510

NOTES

All inserts and threaded dowel rods for inserts, reinforcing and Prestressing Steel, and other items which are cast into the Precast Concrete I-Beams shall be included in the contract unit price per linear foot of "Furnishing and Erecting Precast Prestressed Concrete I-Beams, 54 in."

Insert for 3/4" threaded dowel rods are to be two strut, coil type for interior I-Beams and single coil, flared loop type for exterior I-Beams.

Prestressing steel shall be non-galvanized high strength, stress-relieved 7-wire strand, Grade 270.

The nominal diameter shall be 1/2" and the nominal cross-sectional area shall be 0.153 sq. in.

Non-prestressing steel shall conform to A.A.S.H.T.O. designation M-31, M-42, or M-53 Grade 60.

Steel for lifting loops shall be non-deformed bars f'y = 40,000 psi. Required release strength, f'ci, shall be 4000 psi.

BEAM DETAILS
F.A. ROUTE 100 SECTION 110BR
GRUNDY COUNTY
STATION 136+58.25

FOR INFORMATION ONLY

DESIGNED **VECTOR VELTZ**
CHECKED **Eric E. Hardy**
DRAWN **RITA WILLIAMS**
CHECKED **V.V. EEL pmp**

EXAMINED **Draft J. Kasper**
PREPARED **James J. Paulson**
APPROVED _____

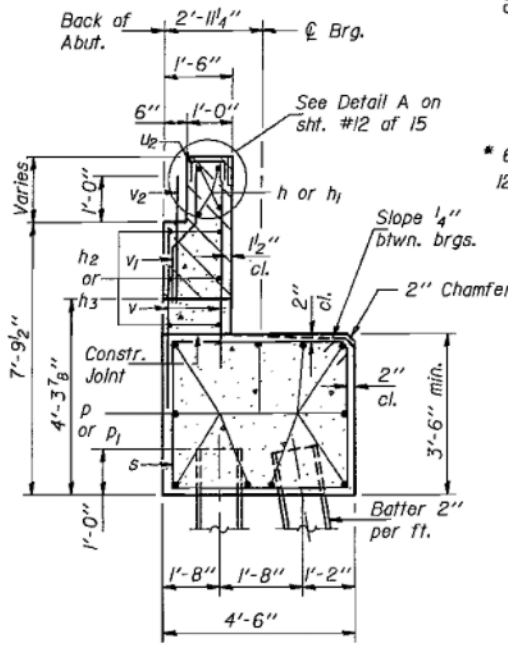
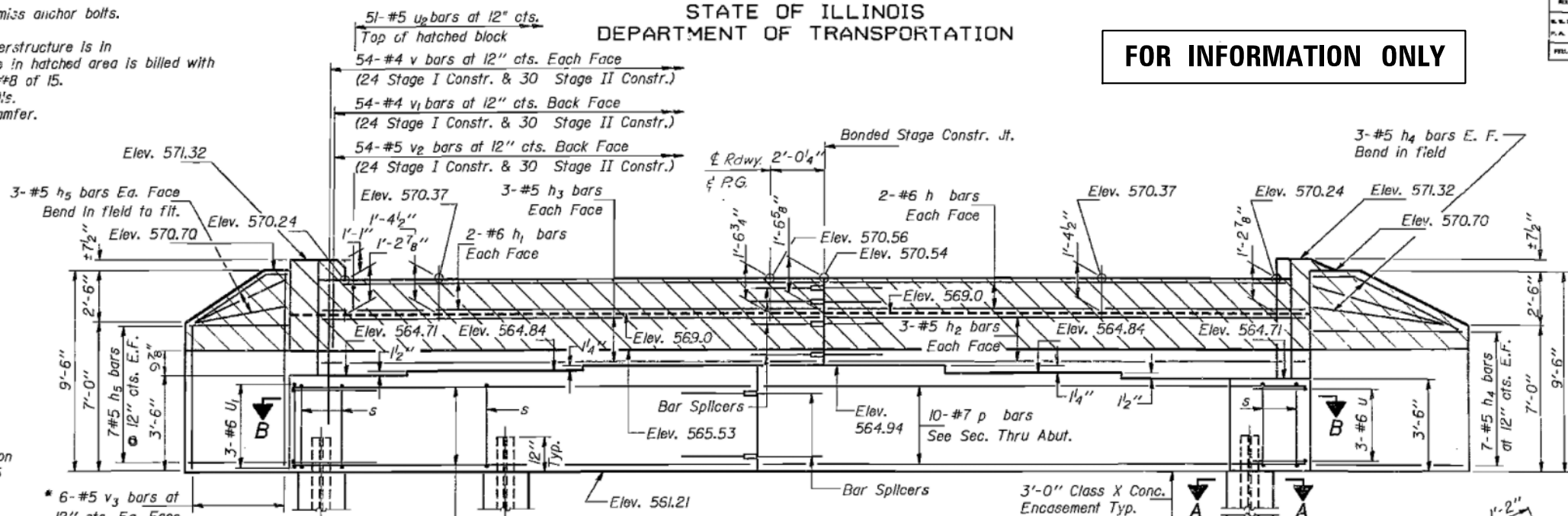
DATE: May 22 1987

FOR INFORMATION ONLY

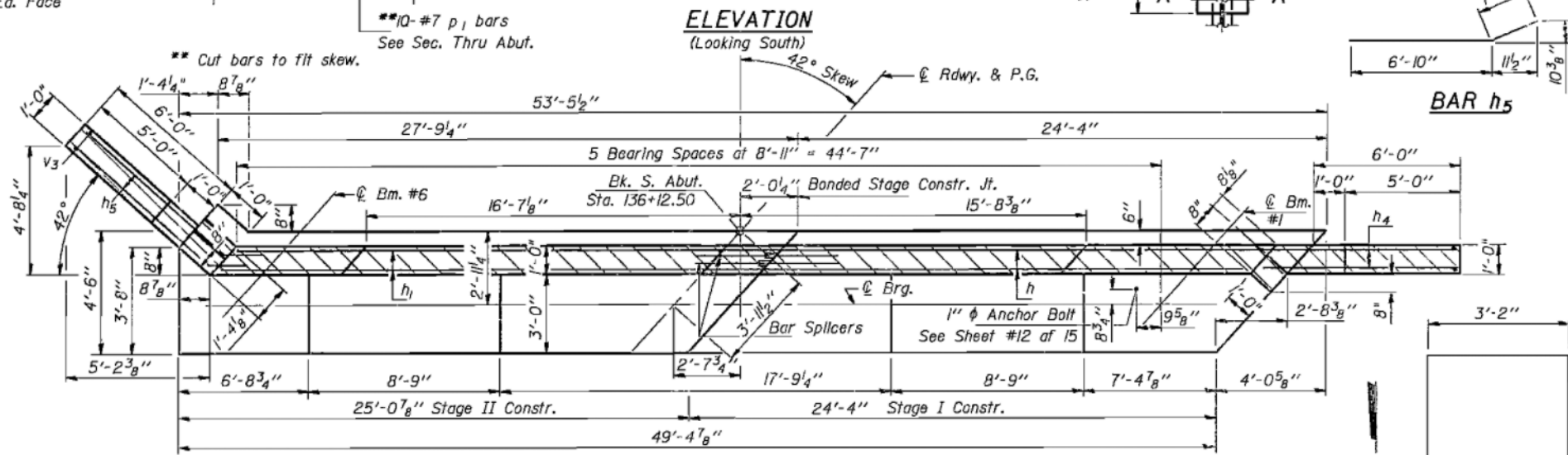
Notes: Space reinforcement bars in cap to miss anchor bolts.
 Pour steps monolithically with cap.
 Hatched area to be poured after superstructure is in place. Class X Concrete Superstructure in hatched area is billed with the superstructure. Quantity on sheet #8 of 15.
 See sheet #5 of 15 for Splice Detail's.
 All edges shall have standard 3/4" chamfer.

PILE DATA

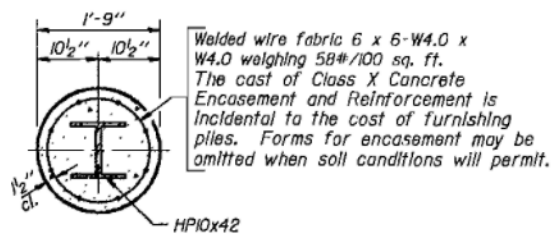
Type: Steel HPI0x42
 Capacity: Driven to refusal
 Est. Length: 36 Ft.
 No. Required: 10 + 1 Test Pile



SEC. THRU ABUT.

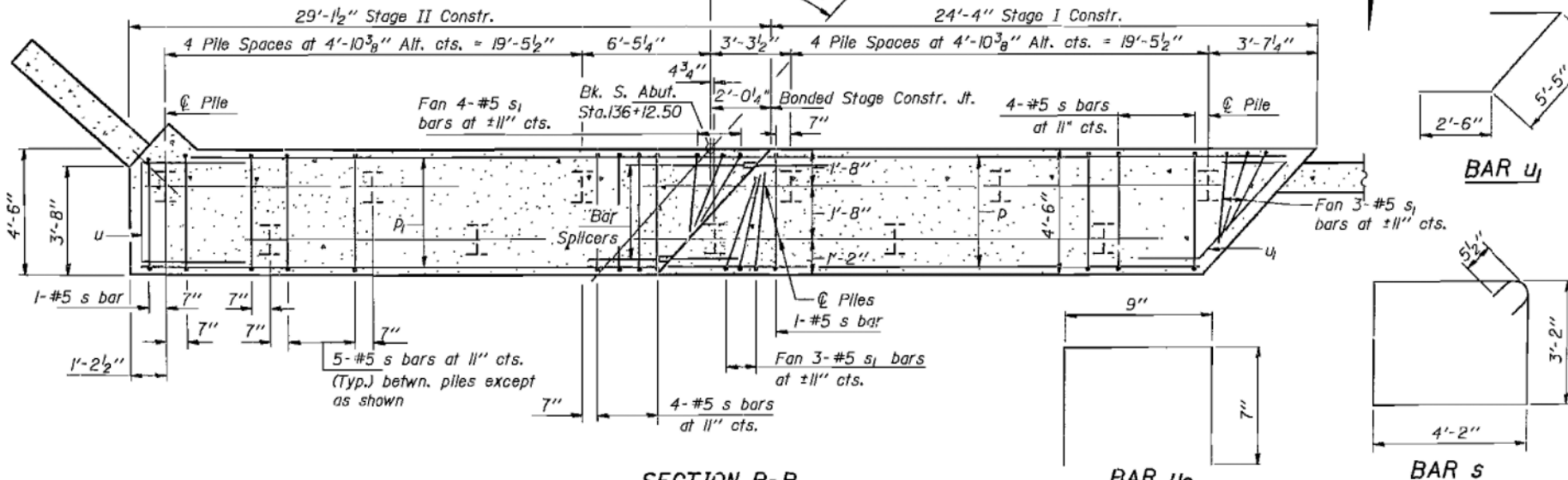


TOP VIEW

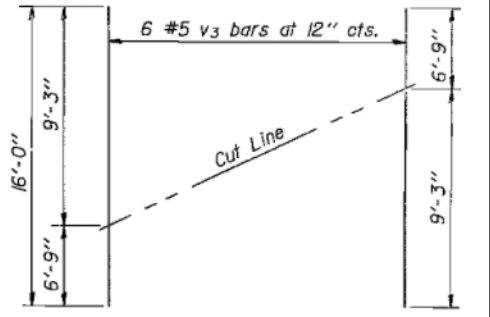


SECTION A-A

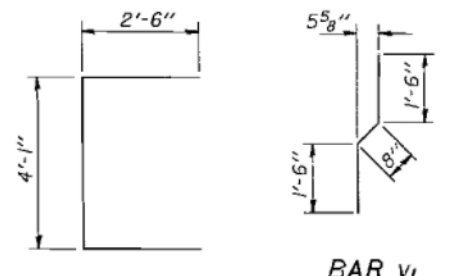
DESIGNED: *Victor Velaz*
 CHECKED: *Eve Hunsley*
 DRAWN: *Rita Williams*
 CHECKED: *V.V. pmp*
 EXAMINED: *Prof. J. Kaspar*
 PASSED: *James J. Korbman*
 APPROVED: _____
 DATE: May 27, 1987



SECTION B-B



FIELD CUTTING DIAGRAM v3 BAR
 Order v3 bars full length. Cut to fit and use remainder in opposite face.



BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h	4	#6	24'-2"	—
h1	4	#6	28'-10"	—
h2	6	#5	24'-3"	—
h3	6	#5	28'-10"	—
h4	20	#5	8'-0"	—
h5	20	#5	8'-0"	—
p	10	#7	24'-2"	—
p1	10	#7	28'-10"	—
s	44	#5	15'-7"	□
s1	10	#5	11'-6"	□
u	3	#6	9'-1"	□
u1	3	#6	10'-5"	□
u2	5	#5	1'-11"	□
v	108	#4	6'-0"	—
v1	54	#4	3'-8"	—
v2	54	#5	4'-0"	—
v3	12	#5	16'-0"	—
Class X Concrete			Cu. Yd.	36.9
Reinforcement Bars			Lbs.	4,080
Steel Piles (HPI0x42)			LIn. Ft.	360
Steel Test Piles (HPI0x42)			Each	1

SOUTH ABUTMENT
F.A. RT. 100 SEC. 110BR
GRUNDY COUNTY
STA. 136+58.25

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

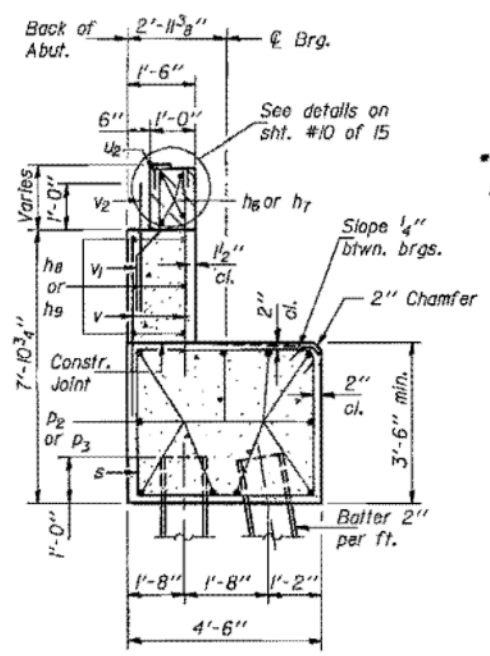
FOR INFORMATION ONLY

DATE	REVISION	BY	NO.	SHEET NO.
				15
PROJECT NO. 106				15 SHEETS

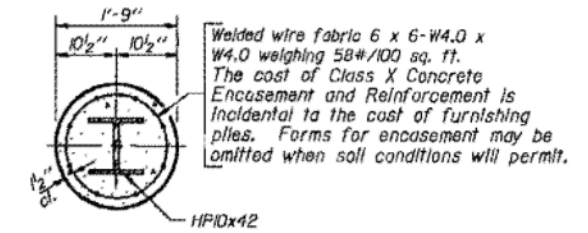
Notes: Space reinforcement bars in cap to miss anchor bolts.
Four steps monolithically with cap.
Hatched area to be poured after superstructure is in place. Class X Concrete Superstructure in hatched area is billed with the superstructure. Quantity on sheet #8 of 15.
See sheet #5 of 15 for Splicer Details.
All edges shall have standard 3/4" chamfer.

PILE DATA

Type: Steel HPI0x42
Capacity: Driven to refusal
Est. Length: 38 Ft.
No. Required: 11

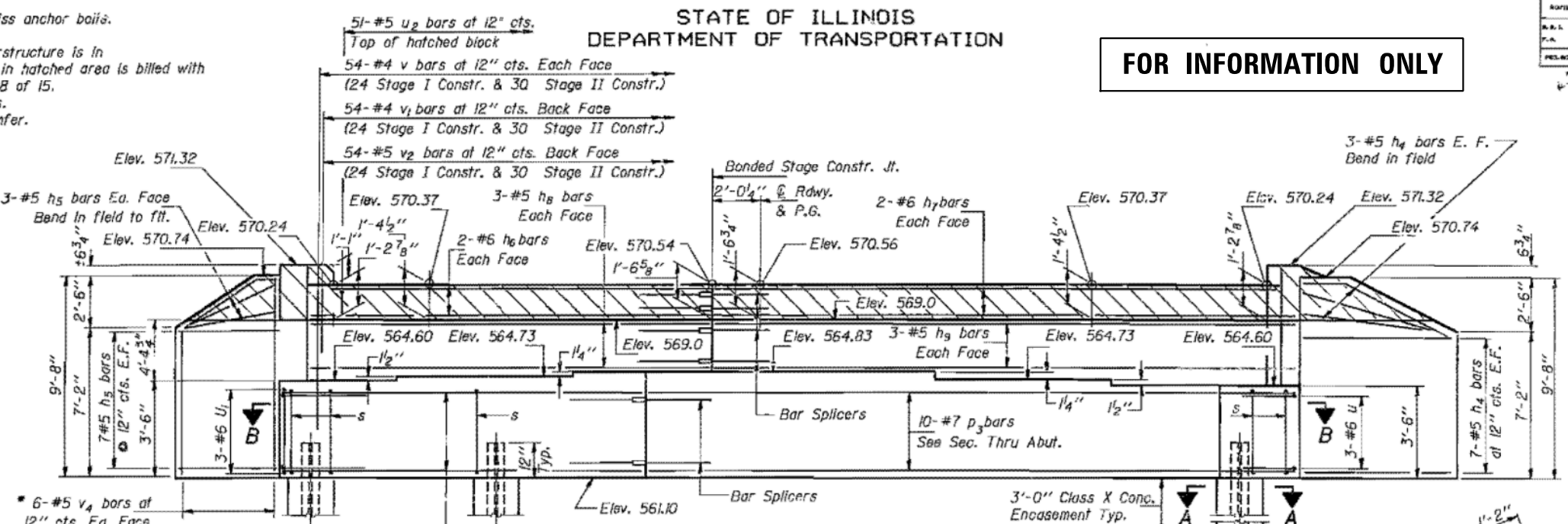


SEC. THRU ABUT.

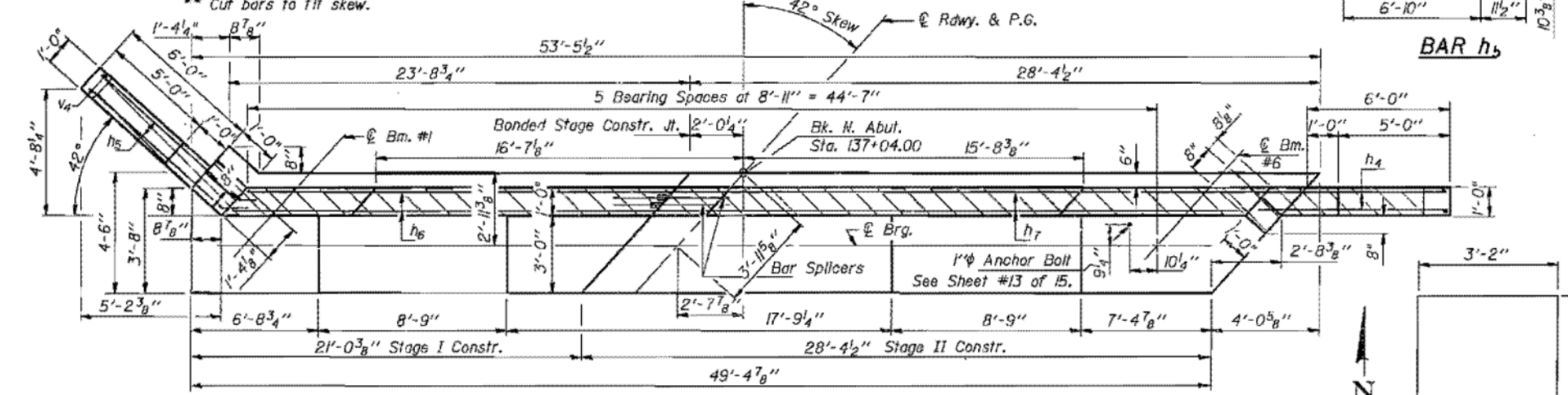


SECTION A-A

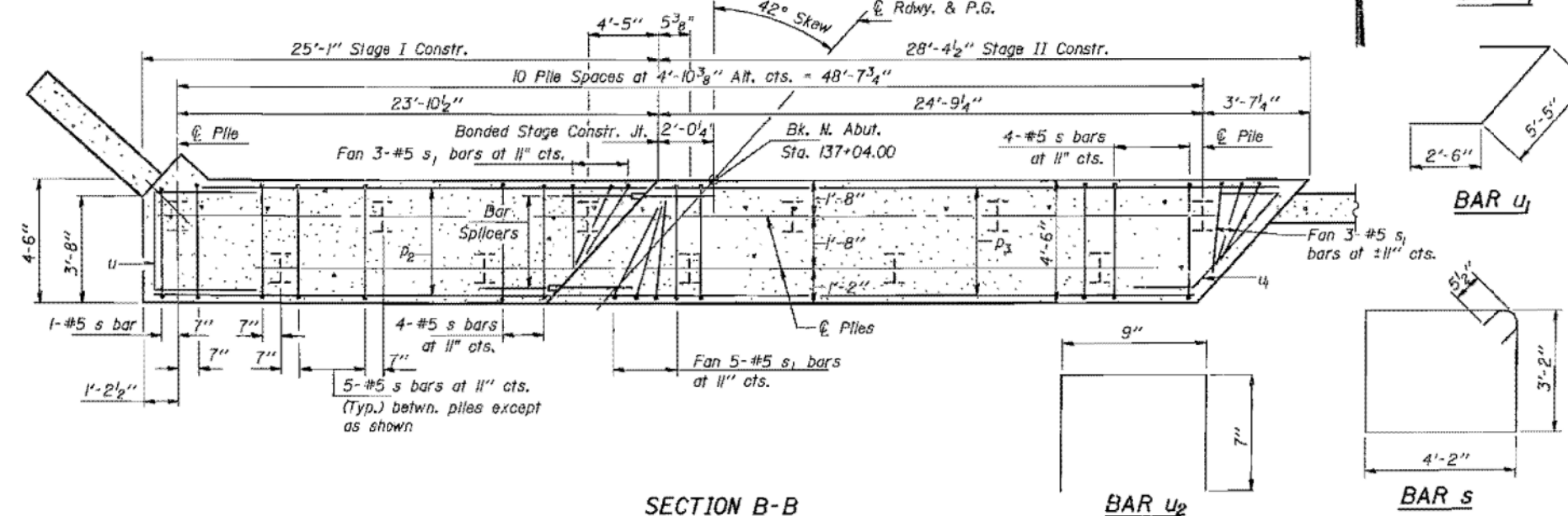
DESIGNED	VECTOR VELTZ	EXAMINED	May 22 1987
CHECKED	Eric Haworth	PASSED	James J. Kasper
DRAWN	Rita Williams	APPROVED	James J. Kasper
CHECKED	J.V. pmp		



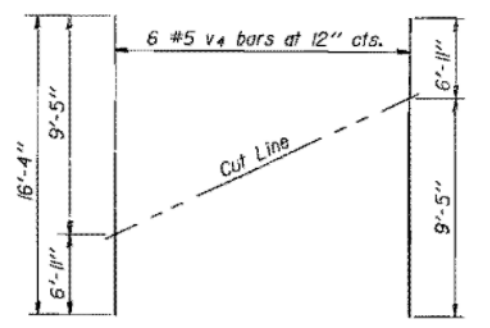
ELEVATION
(Looking North)



TOP VIEW

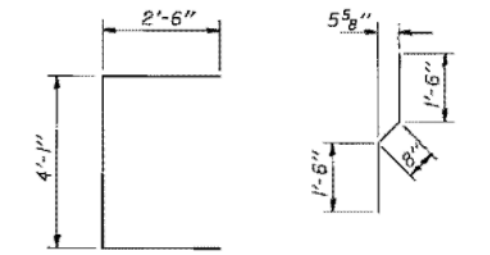


SECTION B-B



FIELD CUTTING DIAGRAM v4 BAR

Order v4 bars full length. Cut to fit and use remainder in opposite face.



BAR h5
BAR v1
BAR u
BAR s1

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h4	20	#5	8'-0"	
h5	20	#5	8'-0"	
h6	4	#6	24'-3"	
h7	4	#6	28'-1"	
h8	6	#5	24'-3"	
h9	6	#5	28'-1"	
p2	10	#7	24'-11"	
p3	10	#7	28'-1"	
s	44	#5	15'-7"	
s1	11	#5	11'-6"	
u	3	#6	9'-1"	
u1	3	#6	10'-5"	
u2	51	#5	1'-11"	
v	118	#4	6'-0"	
v1	54	#4	3'-8"	
v2	54	#5	4'-0"	
v4	12	#5	16'-4"	
Class X Concrete		Cu. Yd.	45.6	
Reinforcement Bars		Lbs.	4,090	
Steel Piles (HPI0x42)		Lin. Ft.	418	

NORTH ABUTMENT
F.A. RT. 100 SEC. 110BR
GRUNDY COUNTY
STA. 136+58.25

Bench Mark: Chiseled square @ N.W. corner of East huu guard, Elev. 575.87
 Existing Structure: S.N. 032-0026 was built in 1956 and has 34'-4" Out to Out
 and 73'-9" Back to Back of abutments. Traffic to be maintained utilizing
 stage construction.
 No salvage

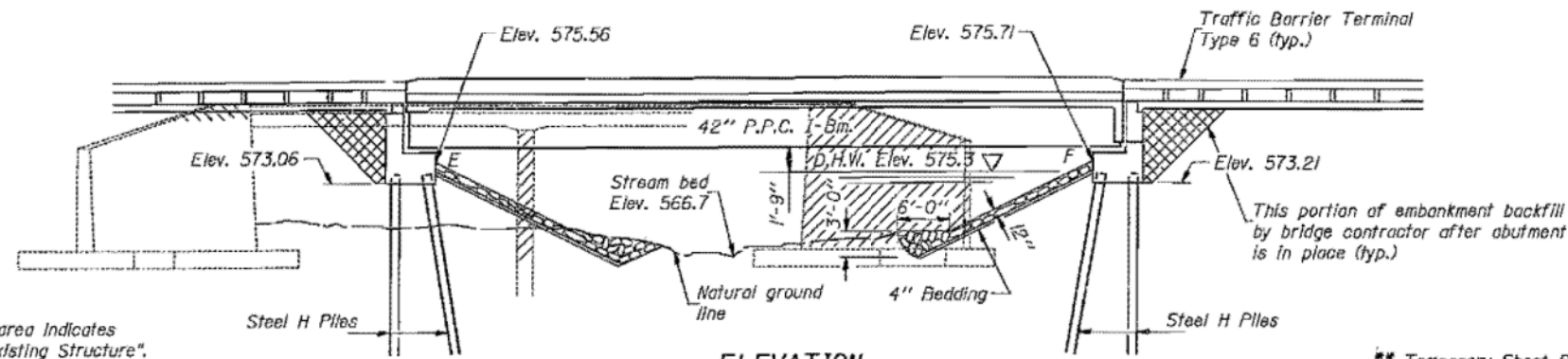
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

FOR INFORMATION ONLY

ROUTE NO.	SECTION	COUNTY	SHEETS	SHEET NO.
F.A. 100	#	#	100	67
SHEET NO. 1 15 SHEETS				

GENERAL NOTES

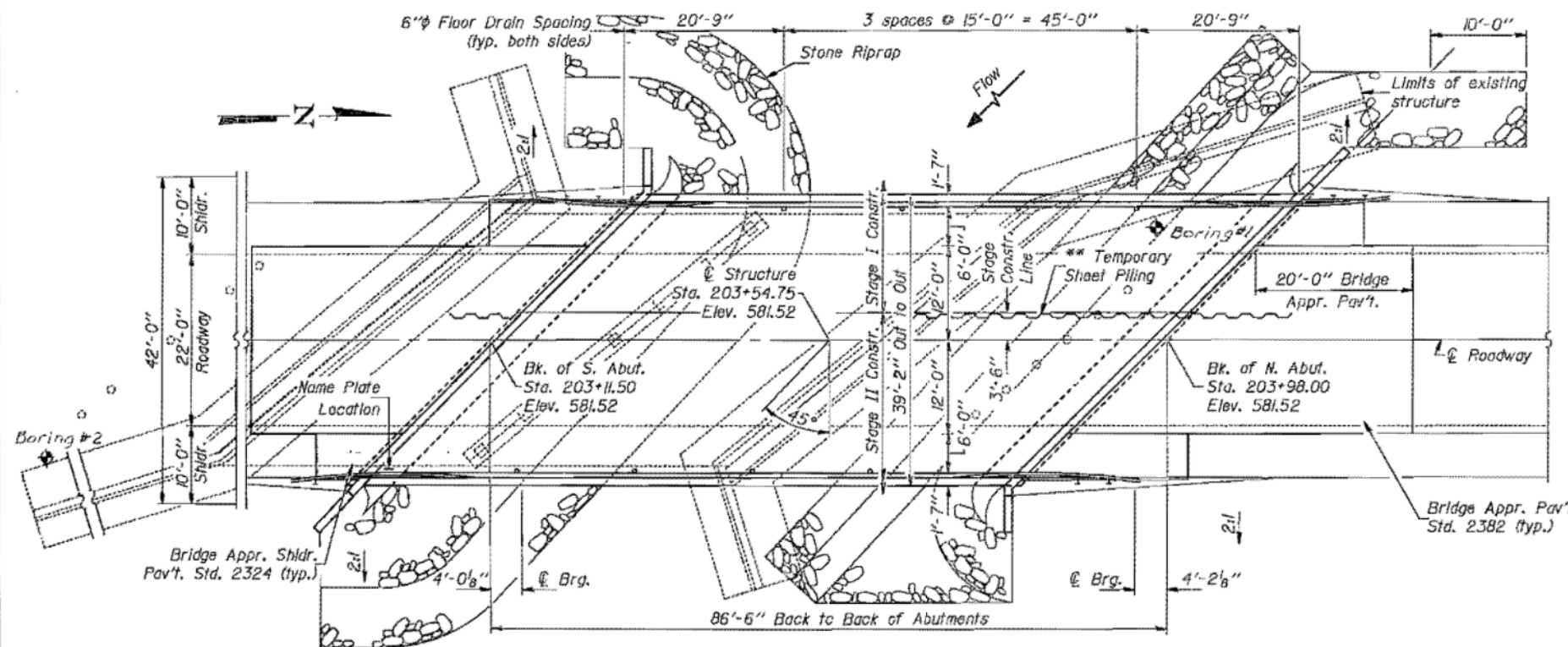
See Proposal for Boring Data.
 All structural steel shall be shop painted with the zinc-silicate and vinyl
 paint system.
 Reinforcement bars shall conform to the requirements of AASHTO M-31,
 M-42 or M-53 Grade 60.
 Layout of stone riprap may be varied in the field to suit ground conditions
 as directed by the Engineer.
 The embankment configuration shown shall be the minimum embankment
 that must be constructed prior to construction of the abutments.
 The contractor shall drive one (1) Steel (HP10x42) test pile in a permanent
 location at the South Abutment as directed by the Engineer before ordering
 the remainder of piles.



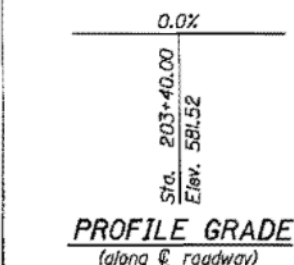
ELEVATION

** Temporary Sheet Piling (See sheet #2 of 15).

Note: Hatched area indicates "Removal of Existing Structure".



PLAN



PROFILE GRADE
 (along roadway)

DESIGNED	Y. H. H. CONSOLE
CHECKED	VECTOR VELTZ
DRAWN	John F. Schneller Jr.
CHECKED	P.M. HARRIS

EXAMINED	May 22 1987
PASSED	[Signature]
APPROVED	[Signature]

WATERWAY INFORMATION

Drainage Area = 9.6 sq. mi. Low Grade Elev. 581.50 @ Sta. 204+00.00

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft. Exlst. Prop.*	Nat. H.W.E. Exlst. Prop.	Head - Ft. Exlst. Prop.	Headwater El. Exlst. Prop.		
Design	50	920	284.8	290	575.3	0.3	575.6	575.6
Base	100	1056	300.8	310	575.7	0.4	576.1	576.1
Overtopping	500	1377	332.4	351	576.5	0.5	577.0	576.9

* Single span, open abutment bridge with 45° skew angle

STATION 203+54.75
 BUILT 198 BY
 STATE OF ILLINOIS
 F.A. RT. 100 SEC. 110BR-1
 PROJECT F-100(59)
 LOADING HS20
 STR. NO. 032-0088

NAME PLATE
 See Std. 2113

DESIGN SPECIFICATIONS

AASHTO (1983) and applicable Interims (1984 thru 1985)

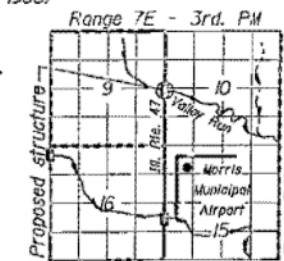
LOADING HS20-44

Allow 25#/sq. ft. for future wearing surface.

DESIGN STRESSES

FIELD UNITS
 $f'_c = 3,500$ psi
 $f_y = 60,000$ psi (Reinf.)
 $f_y = 36,000$ psi (Str. Steel)

PRECAST PRESTRESSED UNITS
 $f'_c = 6,000$ psi
 $f'_c = 4,800$ psi
 $f'_s = 270,000$ psi ($\frac{1}{2}$ " ϕ strands)
 $f'_s = 189,000$ psi ($\frac{1}{2}$ " ϕ strands)



LOCATION SKETCH

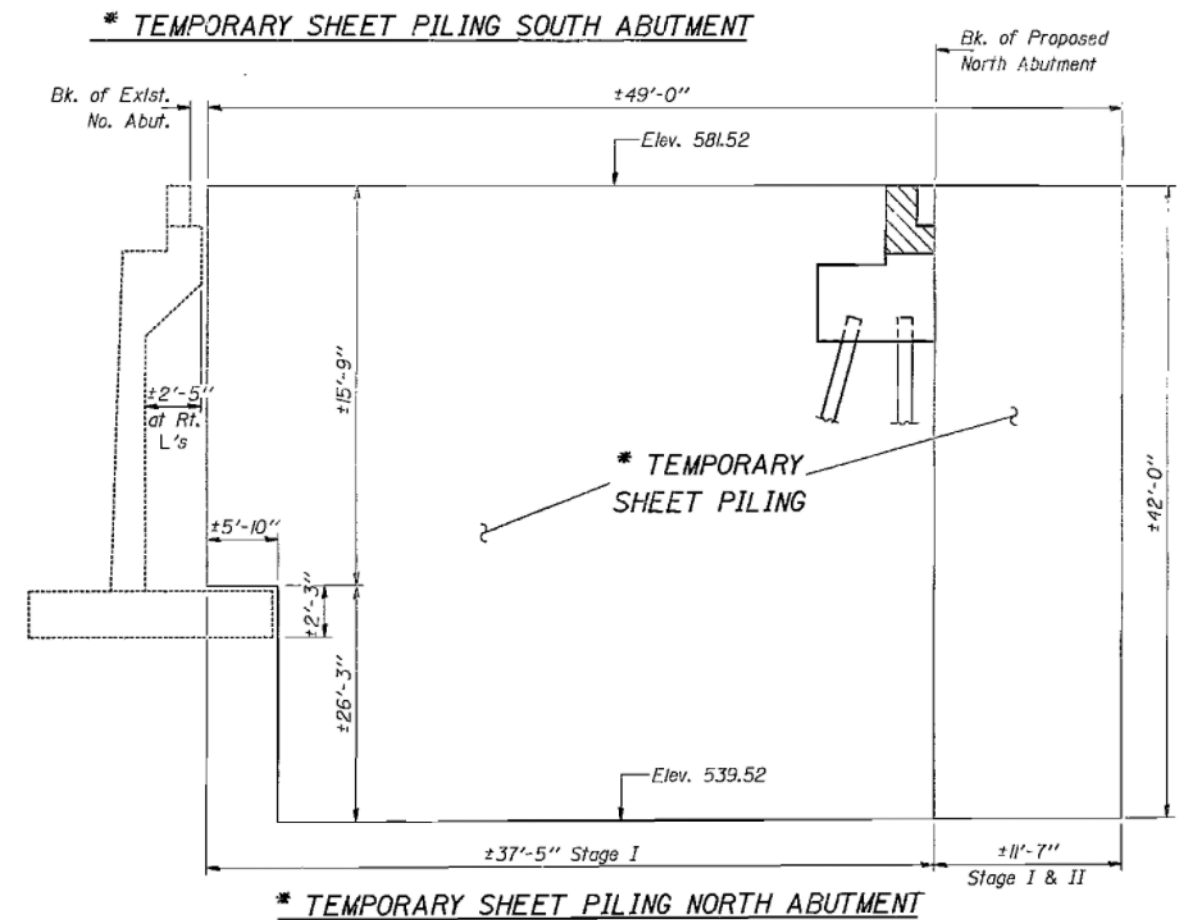
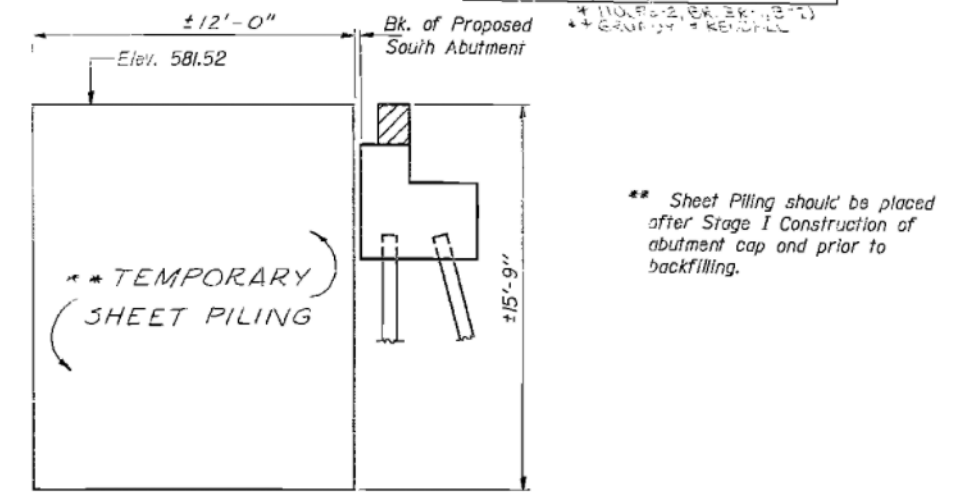
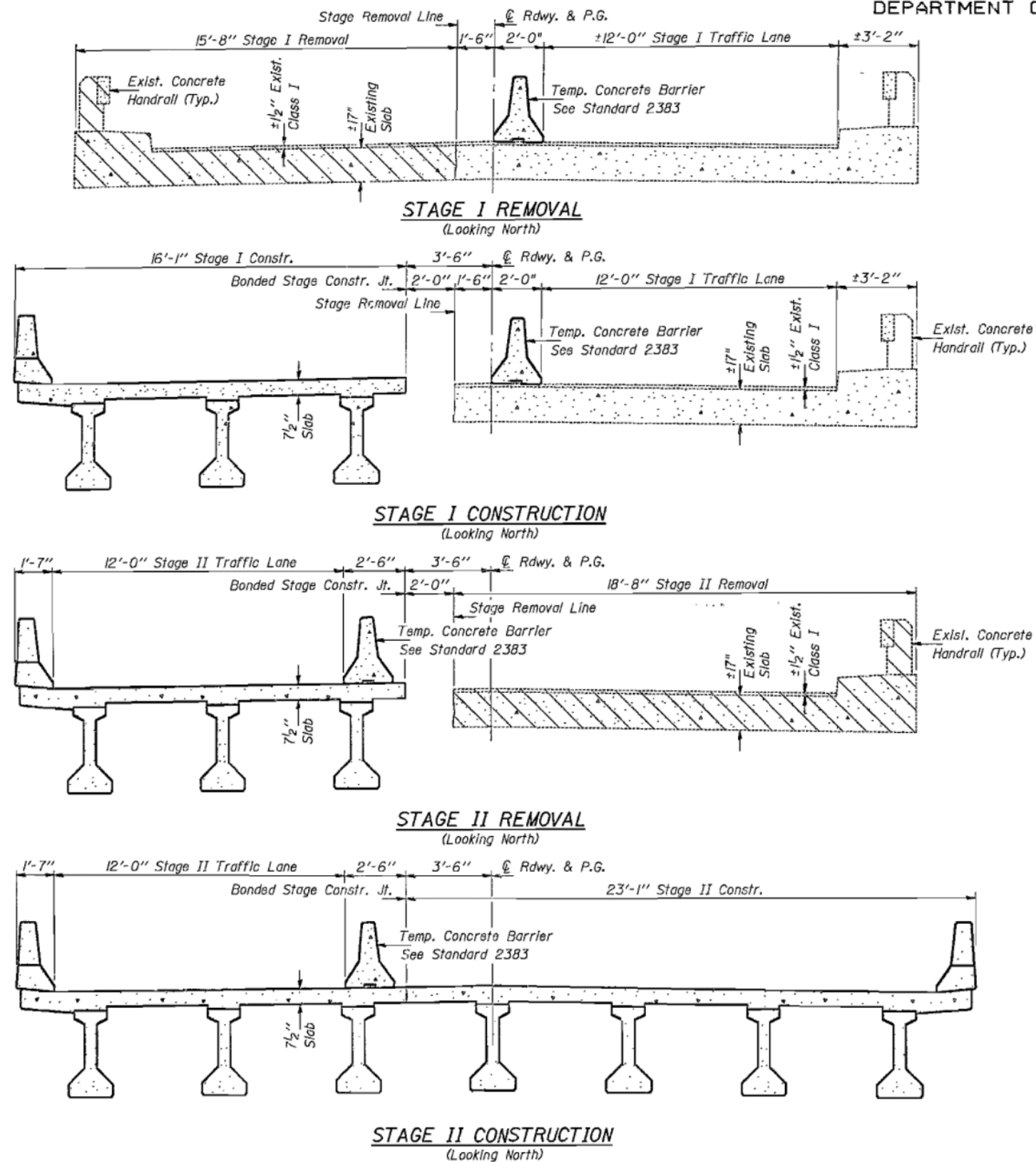
TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Class X Concrete Superstructure	Cu. Yd.	125.5		125.5
Class X Concrete	Cu. Yd.		82.3	82.3
Reinforcement Bars (Epoxy Coated)	Lbs.	21,220		21,220
Reinforcement Bars	Lbs.		8,220	8,220
Furnishing & Erecting Precast Prestressed Concrete I Beams (42")	Lin. Ft.	558		558
Steel Piles (HP10x42)	Lin. Ft.		915	915
Test Piles Steel (HP10x42)	Each		1	1
Name Plates	Each	1		1
Stone Riprap	Sq. Yd.		780	780
Structure Excavation	Cu. Yd.		230	230
Preformed Joint Seal (1 1/4")	Lin. Ft.	55		55
Neoprene Expansion Joint (2")	Lin. Ft.	55		55
Protective Coat	Sq. Yd.	67		67
Structural Steel	Lbs.	1,200	1,510	2,710
Elastomeric Bearing Assembly, Type J	Each		7	7
Removal of Existing Structure	Each		1	1
Temporary Sheet Piling	Sq. Ft.		2,094	2,094
Floor Drains	Each	8		8

GENERAL PLAN
 ILLINOIS ROUTE 47 OVER
 VALLEY RUN
 F.A. ROUTE 100 - SECTION 110BR-1
 GRUNDY COUNTY
 STATION 203+54.75
 STRUCTURE NO. 032-0088

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	SHEET NO.	SHEET
106	BR-1	GRUNDY	106	65
SHEET NO. 2 15 SHEETS				



* The information shown for the temporary sheet piling is estimated. It is the contractor's responsibility to provide a design of the temporary sheet piling and associated members, if required, subject to the approval of the Engineer. The Temporary Sheet Piling shall be placed as shown in details.

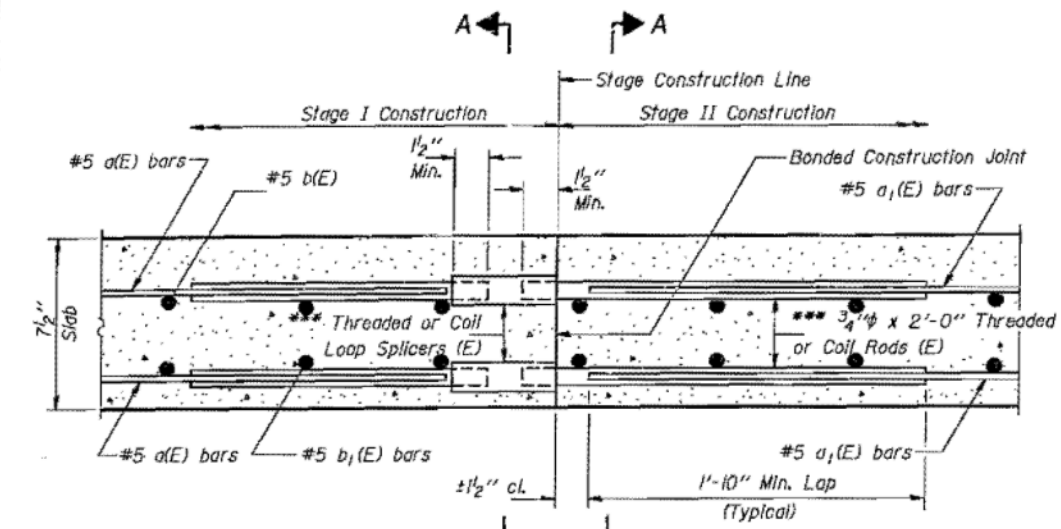
FOR INFORMATION ONLY

STAGE CONSTRUCTION DETAILS & TEMPORARY SHEET PILING DETAILS
F.A. RT. 100 SEC. 110BR-1
GRUNDY COUNTY
STA. 203+54.75

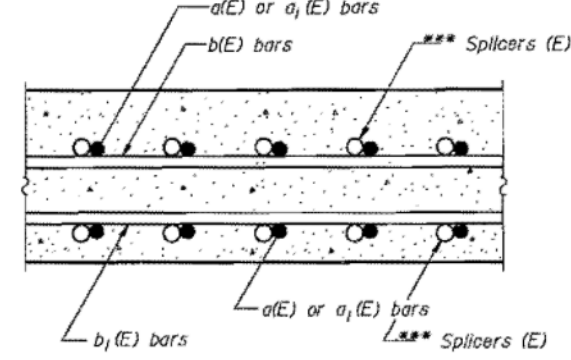
DESIGNED	Victor Veliz	EXAMINED	J. J. Kaspar
CHECKED	Victor Veliz	PASSED	J. J. Kaspar
DRAWN	John F. Schneller Jr.	APPROVED	[Signature]
CHECKED	[Signature]		

Notes: Hatched area indicates "Removal of Existing Structure". For details of "Temporary Concrete Barrier" see sheet #3 of 15 sheets. For quantity of "Temporary Concrete Barrier" see Roadway Plans. Cost of removal of existing concrete handrail is incidental to "Removal of Existing Superstructure". Removal of existing Class I is incidental to "Removal of Existing Structure".

FILE NAME = V:\3195\66883 (South Section)\CADD Sheet\0366883-sht-exstruct-14.dgn	USER NAME = bdecreane	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL. RTE. 47 EXISTING BRIDGE PLANS	F.A.P. RTE. 326	SECTION (110)R, BR & BR-1	COUNTY GRUNDY	TOTAL SHEETS 644	SHEET NO. 412		
SHT.PLAN	PLOT DATE = 8/6/2013	DRAWN -	REVISED -			SCALE: N/A	SHEET 14 OF 23 SHEETS	STA. N/A	TO STA. N/A	CONTRACT NO. 66883		
		CHECKED -	REVISED -			ILLINOIS FED. AID PROJECT						
		DATE - 7/15/2013	REVISED -									



*** Cast incidental to Reinforcement Bars (Epoxy Coated).



NOTES

Steel Splicer (Coupler) assembly shall be of an approved type and shall develop in tension at least 125 percent of the yield strength of the lapped reinforcement bars.

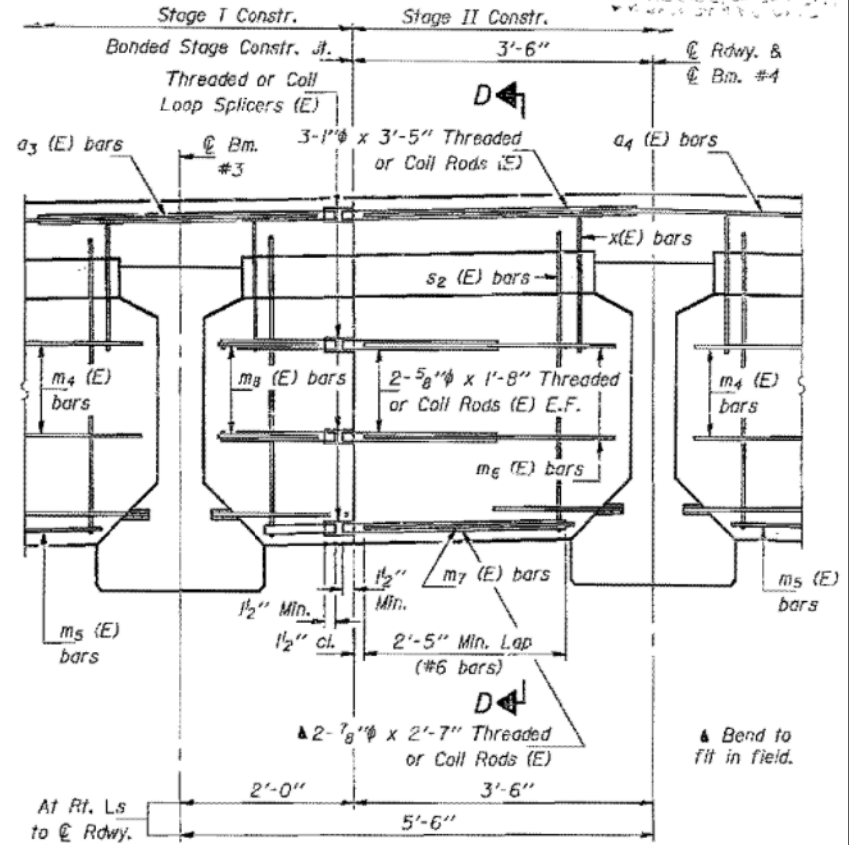
Steel Splicer rods shall be of minimum 60 ksi yield strength, threaded or coiled full length and have effective tensile stress area equal or greater than that of the lapped reinforcement bars.

Splicer rods shall extend minimum 1/2 inches into the couplers.

All reinforcement bars shall be lapped and tied to the splicer rods.

Other systems of similar design may be submitted to the Engineer for approval. Approval shall be based on certified test results from an approved testing laboratory that the proposed splicer (coupler) assembly satisfies the following requirements:

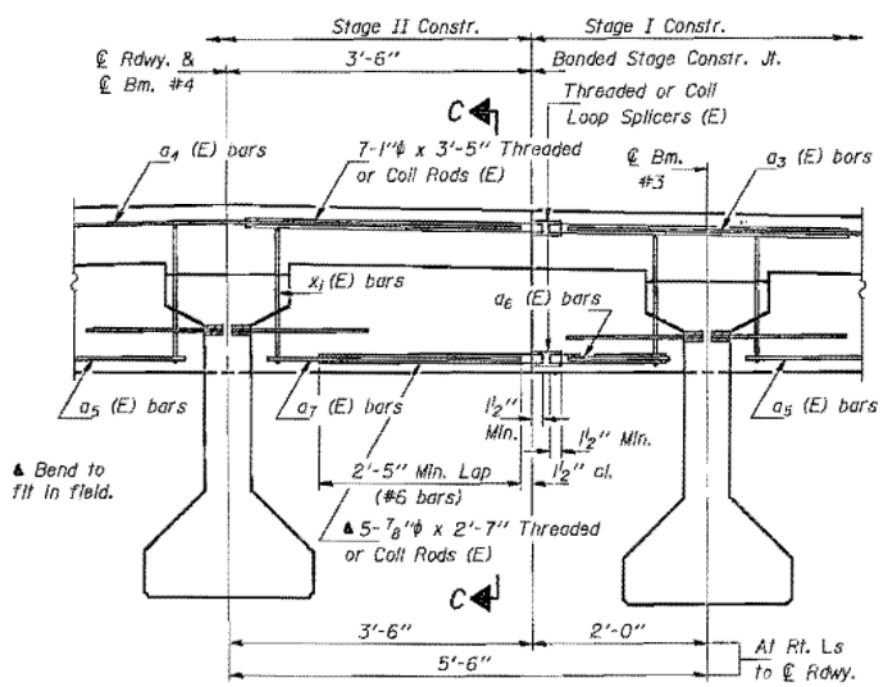
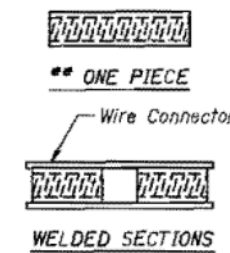
- Minimum Capacity (Tension in kips) = 1.25 x f_y x A_f
 - Minimum *Pull-out Strength = 1.25 x f_{s allow} x A_f (Tension in kips)
- Where f_y = Yield strength of lapped reinforcement bars in ksi.
f_{s allow} = Allowable tensile stress in lapped reinforcement bars in ksi (Service Load)
A_f = Tensile stress area of lapped reinforcement bars.
* = 28 day concrete
- Typical Splicer (Coupler) Assembly Sizes:
- | | |
|---|---|
| #4 bar lap with 5/8" Splicer (Coupler) x 1'-8" Splicer Rods | Minimum Capacity = 14.7 kips-tension
Minimum Pull-out Strength = 5.9 kips-tension |
| #5 bar lap with 3/4" Splicer (Coupler) x 2'-0" Splicer Rods | Minimum Capacity = 23.0 kips-tension
Minimum Pull-out Strength = 9.2 kips-tension |
| #6 bar lap with 7/8" Splicer (Coupler) x 2'-7" Splicer Rods | Minimum Capacity = 33.1 kips-tension
Minimum Pull-out Strength = 13.3 kips-tension |
| #7 bar lap with 1" Splicer (Coupler) x 3'-5" Splicer Rods | Minimum Capacity = 45.1 kips-tension
Minimum Pull-out Strength = 18.0 kips-tension |



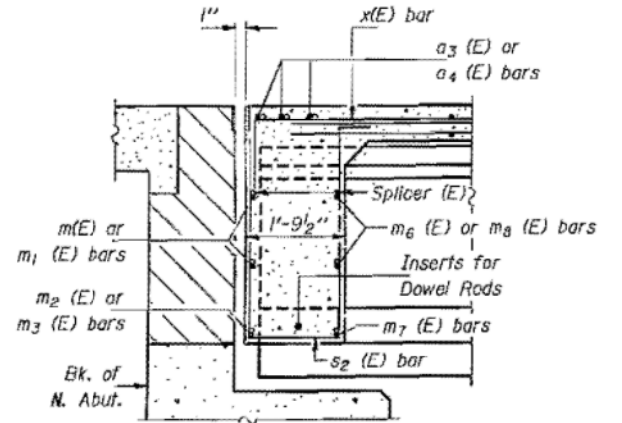
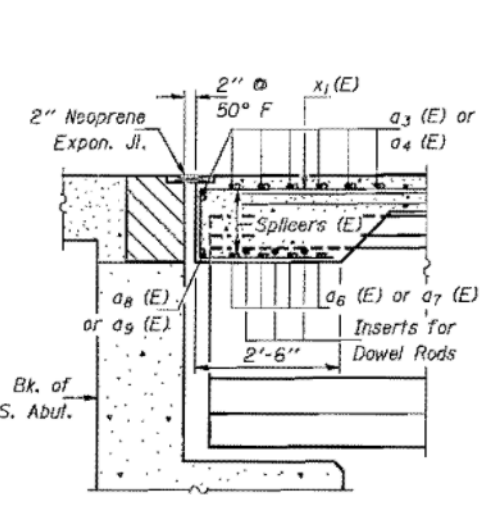
4-#4 Bar Splicers
2-#6 Bar Splicers
3-#7 Bar Splicers

SPLICER ALTERNATIVES

** Heavy Hex Nuts conforming to ASTM A 563, Grade C, D or DH may be used.



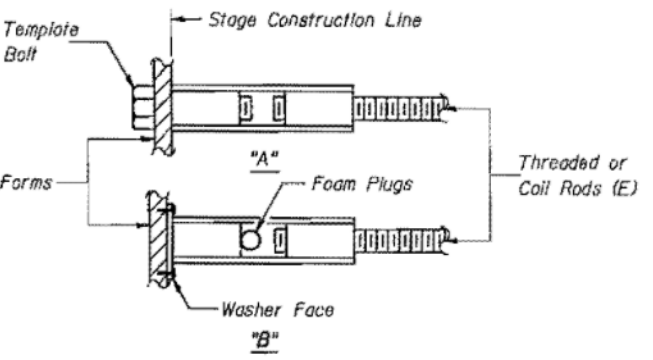
5-#6 Bar Splicers
7-#7 Bar Splicers



BAR SPLICER (COUPLER) DETAILS AT STAGE CONSTRUCTION
F.A. RT. 100 SECTION 110BR-1 GRUNDY COUNTY STATION 203+54.75

FOR INFORMATION ONLY

Cost of furnishing and installing splicers and threaded or coil rods shall be incidental to "Reinforcement Bars".



DESIGNED YASMIN ESTAMALI	EXAMINED Craig J. Kasper
CHECKED VICTOR VELTZ	PASSED James J. Kasper
DRAWN John F. Schaeffer Jr.	APPROVED
CHECKED	

May 22 1987

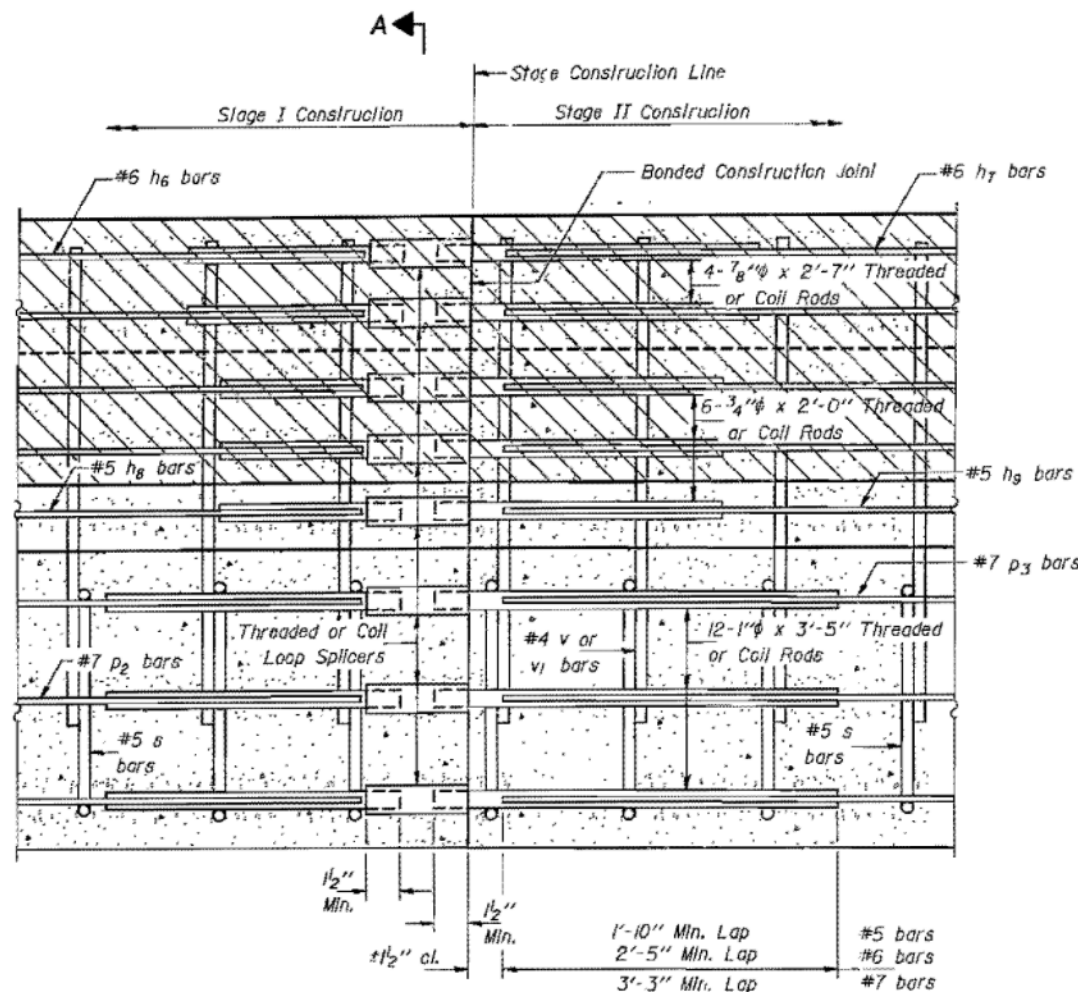
ENGINEER OF HIGHWAY DESIGN

ENGINEER OF BRIDGE AND STRUCTURES

DIRECTOR OF HIGHWAYS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

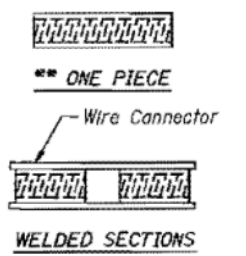
PROJECT NO.	SECTION	COUNTY	DATE	SHEET
11010R	BR & BR-1	GRUNDY	10/10	71
SHEET NO. 5 15 SHEETS				



SECTION THRU NO. ABUTMENT

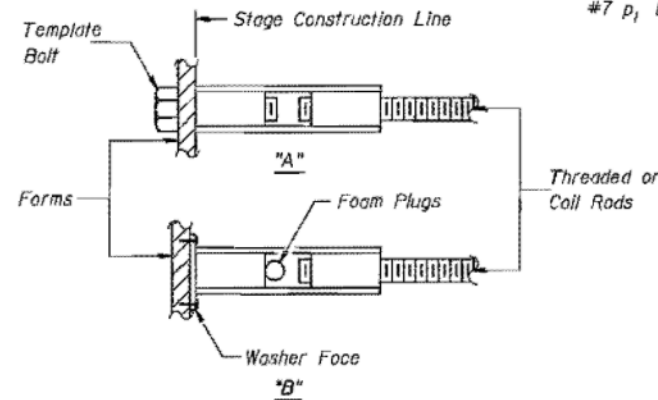
No epoxy coating required.
(Looking North)
No. Req'd.
6-#5 Bar Splicers
4-#6 Bar Splicers
10-#7 Bar Splicers

This Splicer Bar is the same diameter as the bar spliced.
ROLLED THREAD DOWEL BAR
This Splicer Bar is one size larger in diameter than the bar spliced.



SPLICER ALTERNATIVES

** Heavy Hex Nuts conforming to ASTM A 563, Grade C, D or DH may be used.



INSTALLATION AND SETTING METHODS

"A": Set splicer by means of a template bolt.
"B": Set splicer by nailing to wood forms or cementing to steel forms.

NOTES

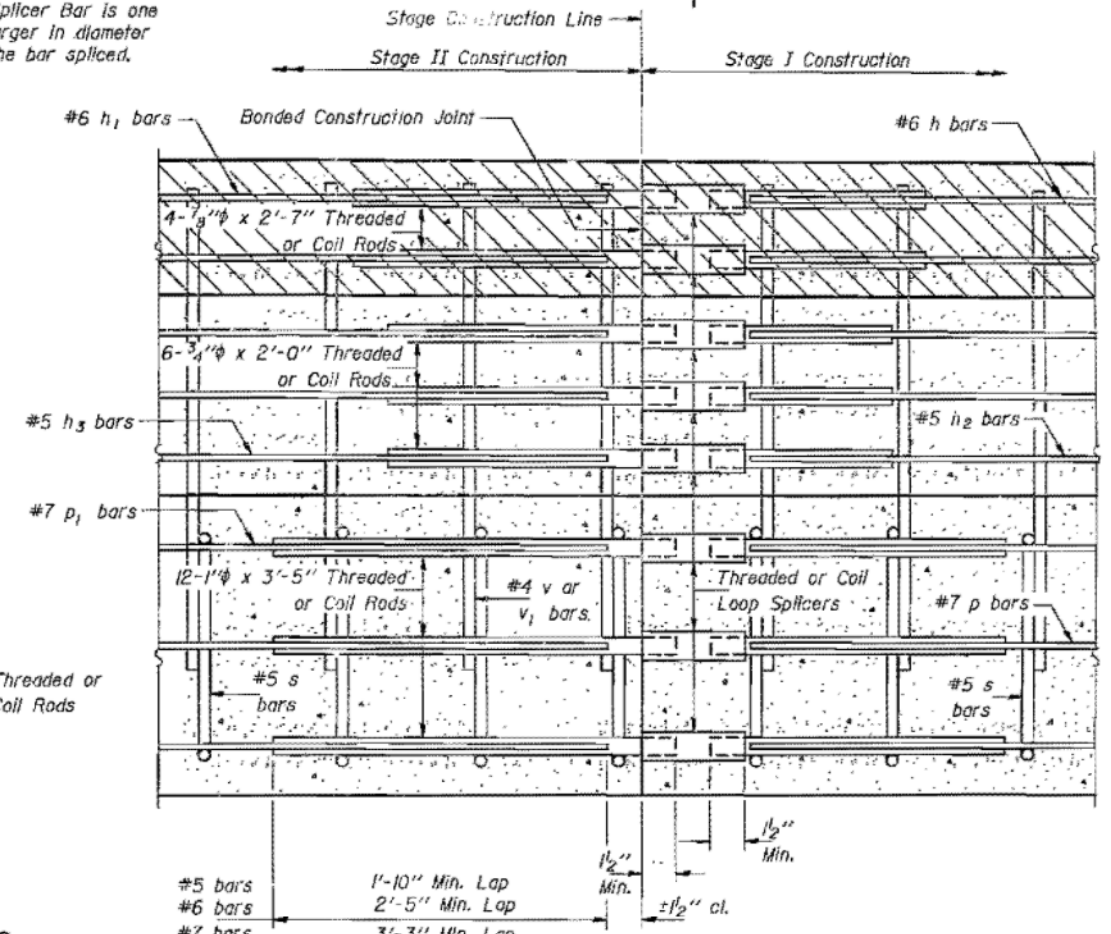
Steel Splicer (Coupler) assembly shall be of an approved type and shall develop in tension at least 125 percent of the yield strength of the lapped reinforcement bars.
Steel Splicer rods shall be of minimum 60 ksi yield strength, threaded or coiled full length and have effective tensile stress area equal or greater than that of the lapped reinforcement bars.
Splicer rods shall extend minimum 1/2 inches into the couplers.
All reinforcement bars shall be lapped and tied to the splicer rods.
Other systems of similar design may be submitted to the Engineer for approval. Approval shall be based on certified test results from an approved testing laboratory that the proposed splicer (coupler) assembly satisfies the following requirements:

- Minimum Capacity (Tension in kips) = $1.25 \times f_y \times A_t$
- Minimum *Pull-out Strength = $1.25 \times f_{s\text{allow}} \times A_t$

Where f_y = Yield strength of lapped reinforcement bars in ksi.
 $f_{s\text{allow}}$ = Allowable tensile stress in lapped reinforcement bars in ksi (Service Load)
 A_t = Tensile stress area of lapped reinforcement bars.
* = 28 day concrete

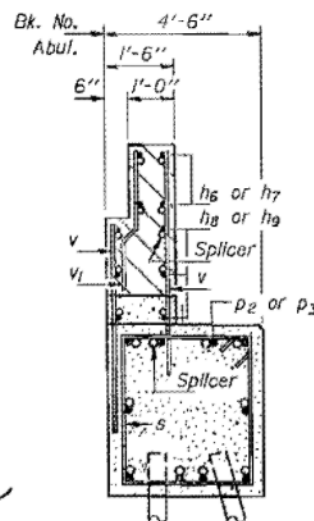
Typical Splicer (Coupler) Assembly Sizes:

#5 bar lap with 3/4" Splicer (Coupler) x 2'-0" Splicer Rods	Minimum Capacity = 23.0 kips-tension Minimum Pull-out Strength = 9.2 kips-tension
#6 bar lap with 7/8" Splicer (Coupler) x 2'-7" Splicer Rods	Minimum Capacity = 33.1 kips-tension Minimum Pull-out Strength = 13.3 kips-tension
#7 bar lap with 1" Splicer (Coupler) x 3'-5" Splicer Rods	Minimum Capacity = 45.1 kips-tension Minimum Pull-out Strength = 18.0 kips-tension

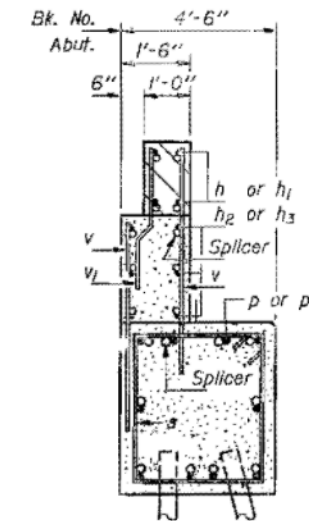


SECTION THRU SO. ABUTMENT

No epoxy coating required.
(Looking South)
No. Req'd.
6-#5 Bar Splicers
4-#6 Bar Splicers
10-#7 Bar Splicers



**SECTION A-A
SPLICER DETAILS**



**SECTION B-B
SPLICER DETAILS**

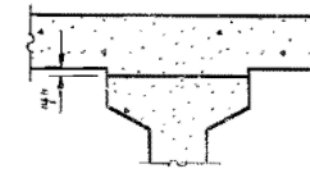
Cost of furnishing and installing splicers and threaded or coil rods shall be incidental to "Reinforcement Bars".

FOR INFORMATION ONLY

**BAR SPLICER (COUPLER) DETAILS
AT STAGE CONSTRUCTION
F.A. RT. 100 SECTION 110BR-1
GRUNDY COUNTY
STATION 203+54.75**

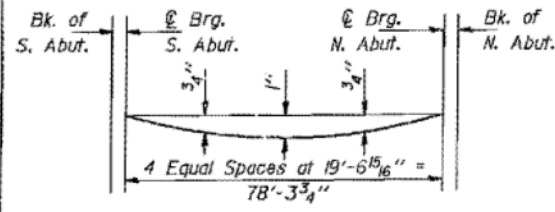
DESIGNED YASARIN ESMAIL	EXAMINED <i>Ortiz O. Kasper</i>	DATE 12/27/13
CHECKED VICTOR VELLA	PAID BY <i>James J. Rayburn</i>	
DRAWN John P. Schaeffer Jr.	APPROVED	
CHECKED T.M. H. P...		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



ROUTE NO.	SECTION	COUNTY	SHEET NO.
100	100	GRUNDY	72

SHEET NO. 6
15 SHEETS



DEAD LOAD DEFLECTION DIAGRAM

(Includes weight of concrete slab only)

Note: The above deflections are not to be used in the field if the engineer is working from the grade elevations adjusted for dead load deflections as shown below.

To determine "4": After all precast prestressed beams have been erected, elevations of the top flanges of the beams shall be taken at intervals shown below. These elevations subtracted from the "Theoretical Grade Elevations Adjusted For Dead Load Deflections" minus slab thickness, equals the fillet heights "4" above top flanges of beams.

FILLET HEIGHTS

BEAM #1

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abut.	20328.000	-16.500	581.239	581.239
€ Brg. S. Abut.	20332.010	-16.500	581.239	581.239
A	20342.010	-16.500	581.239	581.273
B	20352.010	-16.500	581.239	581.306
C	20362.010	-16.500	581.239	581.320
D	20372.010	-16.500	581.239	581.331
E	20382.010	-16.500	581.239	581.317
F	20392.010	-16.500	581.239	581.301
G	20402.010	-16.500	581.239	581.267
€ Brg. N. Abut.	20410.323	-16.500	581.239	581.239
Bk. N. Abut.	20414.500	-16.500	581.239	581.239

BEAM #2

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abut.	20322.500	-11.000	581.348	581.348
€ Brg. S. Abut.	20326.510	-11.000	581.348	581.348
A	20336.510	-11.000	581.348	581.382
B	20346.510	-11.000	581.348	581.415
C	20356.510	-11.000	581.348	581.429
D	20366.510	-11.000	581.348	581.440
E	20376.510	-11.000	581.348	581.426
F	20386.510	-11.000	581.348	581.410
G	20396.510	-11.000	581.348	581.376
€ Brg. N. Abut.	20404.823	-11.000	581.348	581.348
Bk. N. Abut.	20409.000	-11.000	581.348	581.348

BEAM #3

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abut.	20317.000	-5.500	581.434	581.434
€ Brg. S. Abut.	20321.010	-5.500	581.434	581.434
A	20331.010	-5.500	581.434	581.468
B	20341.010	-5.500	581.434	581.501
C	20351.010	-5.500	581.434	581.515
D	20361.010	-5.500	581.434	581.526
E	20371.010	-5.500	581.434	581.512
F	20381.010	-5.500	581.434	581.496
G	20391.010	-5.500	581.434	581.462
€ Brg. N. Abut.	20399.323	-5.500	581.434	581.434
Bk. N. Abut.	20403.500	-5.500	581.434	581.434

BONDED STAGE CONSTR. JT.

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abut.	20315.000	-3.500	581.465	581.465
€ Brg. S. Abut.	20319.010	-3.500	581.465	581.465
A	20329.010	-3.500	581.465	581.489
B	20339.010	-3.500	581.465	581.532
C	20349.010	-3.500	581.465	581.548
D	20359.010	-3.500	581.465	581.557
E	20369.010	-3.500	581.465	581.544
F	20379.010	-3.500	581.465	581.528
G	20389.010	-3.500	581.465	581.494
€ Brg. N. Abut.	20397.323	-3.500	581.465	581.465
Bk. N. Abut.	20401.500	-3.500	581.465	581.465

€ RDWY., P.G. & BEAM #4

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abut.	20311.500	0.000	581.520	581.520
€ Brg. S. Abut.	20315.510	0.000	581.520	581.520
A	20325.510	0.000	581.520	581.554
B	20335.510	0.000	581.520	581.587
C	20345.510	0.000	581.520	581.601
D	20355.510	0.000	581.520	581.612
E	20365.510	0.000	581.520	581.598
F	20375.510	0.000	581.520	581.582
G	20385.510	0.000	581.520	581.548
€ Brg. N. Abut.	20393.823	0.000	581.520	581.520
Bk. N. Abut.	20398.000	0.000	581.520	581.520

BEAM #5

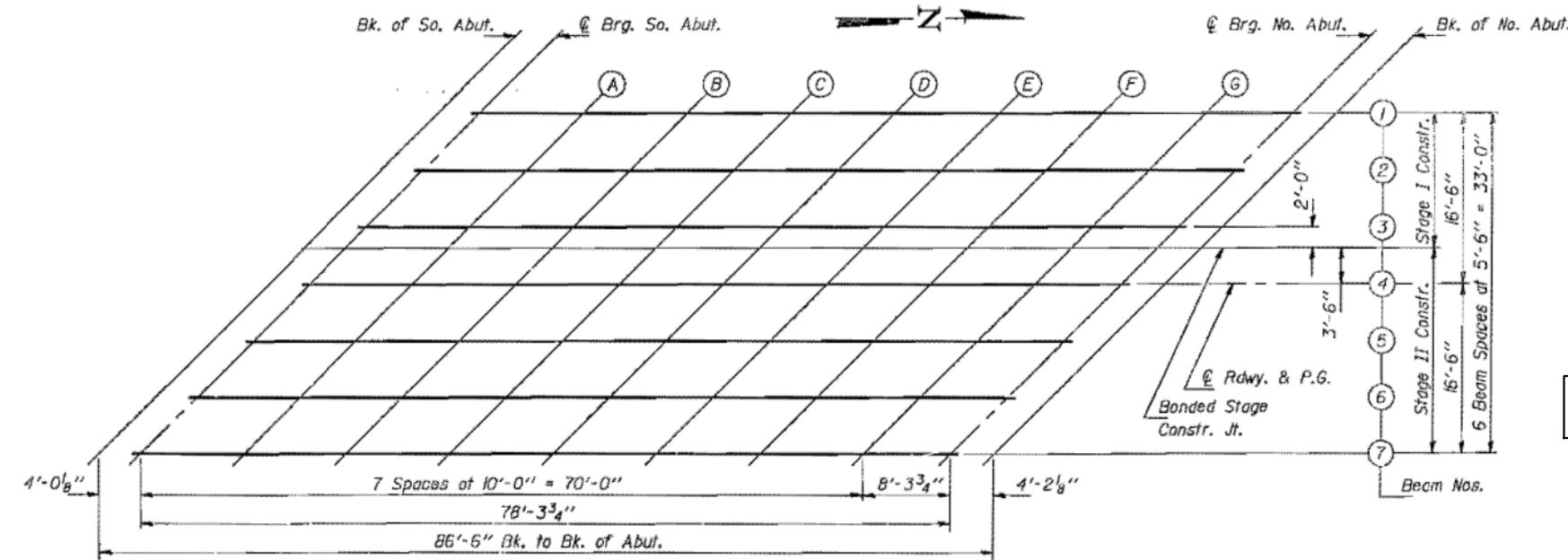
Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abut.	20306.000	5.500	581.434	581.434
€ Brg. S. Abut.	20310.010	5.500	581.434	581.434
A	20320.010	5.500	581.434	581.468
B	20330.010	5.500	581.434	581.501
C	20340.010	5.500	581.434	581.515
D	20350.010	5.500	581.434	581.526
E	20360.010	5.500	581.434	581.512
F	20370.010	5.500	581.434	581.496
G	20380.010	5.500	581.434	581.462
€ Brg. N. Abut.	20388.323	5.500	581.434	581.434
Bk. N. Abut.	20392.500	5.500	581.434	581.434

BEAM #6

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abut.	20300.500	11.000	581.348	581.348
€ Brg. S. Abut.	20304.510	11.000	581.348	581.348
A	20314.510	11.000	581.348	581.382
B	20324.510	11.000	581.348	581.415
C	20334.510	11.000	581.348	581.429
D	20344.510	11.000	581.348	581.440
E	20354.510	11.000	581.348	581.426
F	20364.510	11.000	581.348	581.410
G	20374.510	11.000	581.348	581.376
€ Brg. N. Abut.	20382.823	11.000	581.348	581.348
Bk. N. Abut.	20387.000	11.000	581.348	581.348

BEAM #7

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abut.	20295.000	16.500	581.239	581.239
€ Brg. S. Abut.	20299.010	16.500	581.239	581.239
A	20309.010	16.500	581.239	581.273
B	20319.010	16.500	581.239	581.306
C	20329.010	16.500	581.239	581.320
D	20339.010	16.500	581.239	581.331
E	20349.010	16.500	581.239	581.317
F	20359.010	16.500	581.239	581.301
G	20369.010	16.500	581.239	581.267
€ Brg. N. Abut.	20377.323	16.500	581.239	581.239
Bk. N. Abut.	20381.500	16.500	581.239	581.239



PLAN

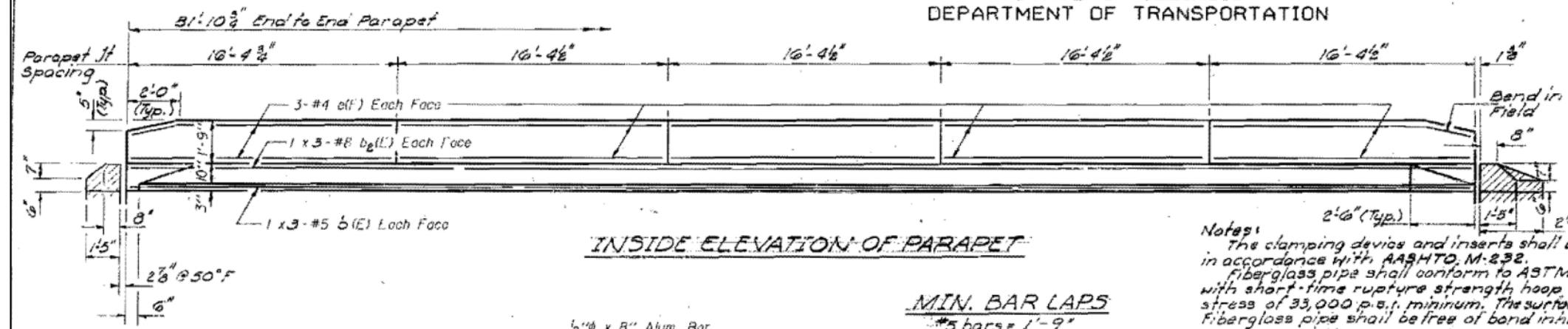
FOR INFORMATION ONLY

TOP OF SLAB ELEVATIONS
F.A. RT. 100 SEC. 110BR-1
GRUNDY COUNTY
STA. 203+54.75

DESIGNED YASMIN ESTMANI	EXAMINED May 22 1987
CHECKED VICTOR VELLEZ	PASSED
DRAWN John F. Schneller Jr.	APPROVED
CHECKED R.M. BROWN	

PROJECT NO.	DATE	SCALE	SHEET NO.	TOTAL SHEETS
100	7/15/2013	N/A	19	23

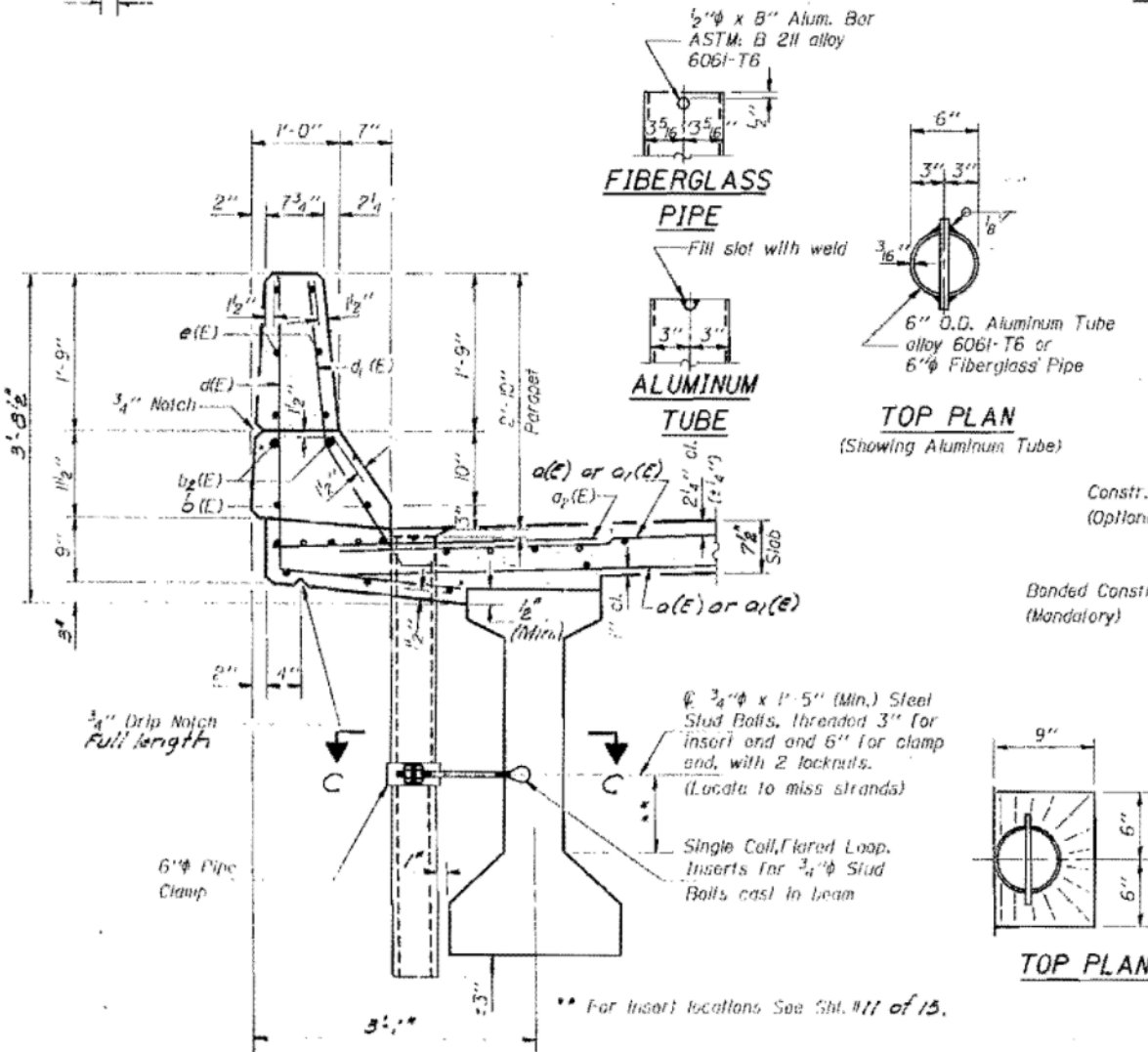
FOR INFORMATION ONLY



INSIDE ELEVATION OF PARAPET

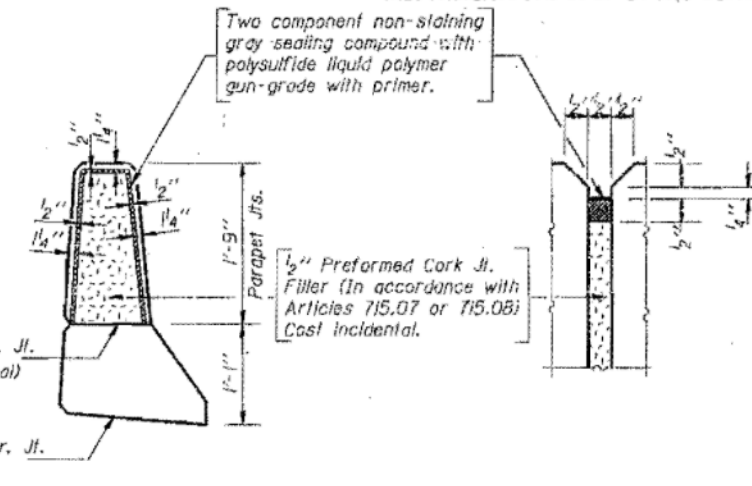
MIN. BAR LAPS
#5 bars = 1'-9"
#8 bars = 3'-9"

Notes:
The clamping device and inserts shall be galvanized in accordance with AASHTO M-232.
Fiberglass pipe shall conform to ASTM D2990, with short-time rupture strength hoop tensile stress of 33,000 p.s.i. minimum. The surfaces of the fiberglass pipe shall be free of bond inhibiting agents.
The exterior surfaces of the fiberglass floor drains shall be painted with one coat of Aluminum paint. Painting of the fiberglass floor drains will not be required when the exterior surfaces of the furnished drains are coated by the manufacturer with silver pigment or a pigment that matches the color of the concrete beam.

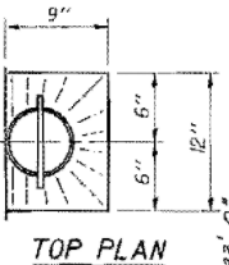


SECTION THRU PARAPET

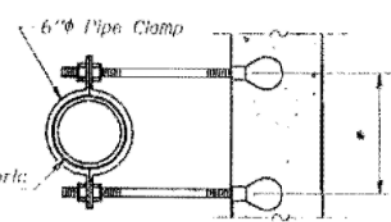
TOP PLAN (Showing Aluminum Tube)



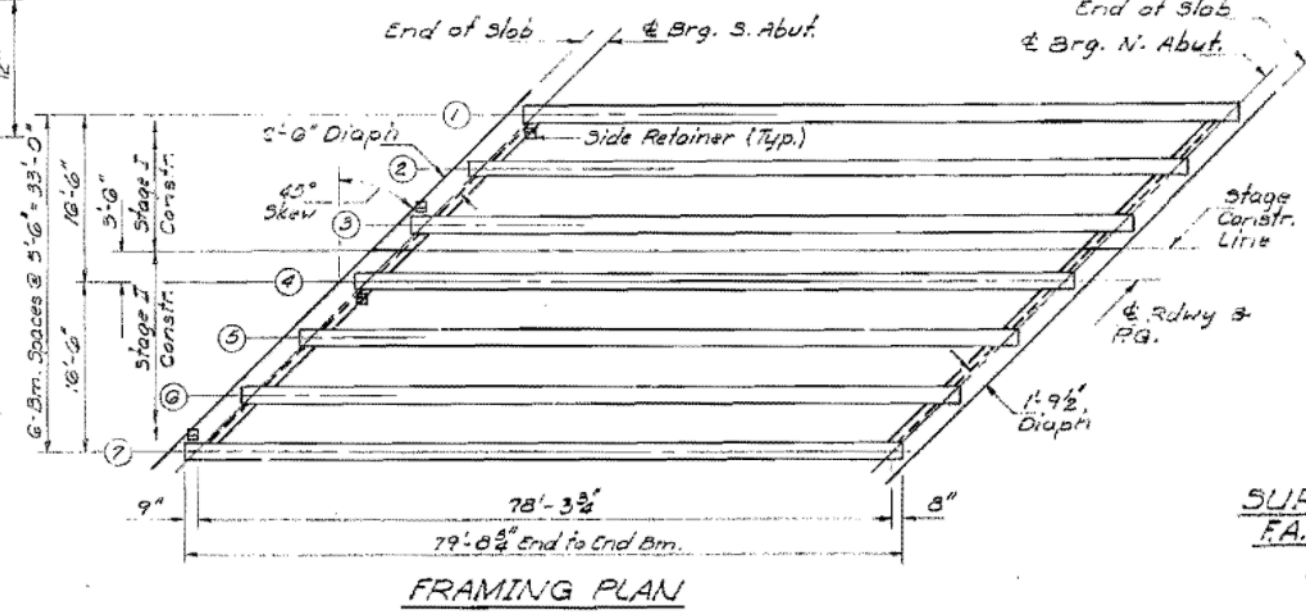
PARAPET JOINT DETAILS



TOP PLAN



SECTION C-C



FRAMING PLAN

SUPERSTRUCTURE
BILL OF MATERIAL

Bar	No.	Size	Length	Weight
d1(L)	207	#5	15'-1"	
d2(L)	207	#5	22'-7"	
d3(L)	110	#4	1'-11"	
d4(L)	10	#7	22'-7"	
d5(L)	10	#7	32'-0"	
d6(L)	20	#6	6'-0"	
d7(L)	4	#6	2'-9"	
d8(L)	4	#6	4'-5"	
d9(L)	1	#6	18'-2"	
d10(L)	1	#6	20'-3"	
b1(E)	138	#5	28'-5"	
b2(E)	180	#5	21'-4"	
b3(E)	12	#8	29'-10"	
d1(E)	104	#5	3'-0"	
d2(E)	106	#5	3'-11"	
d3(E)	12	#5	3'-8"	
a1(E)	60	#4	16'-1"	
m1(E)	2	#5	13'-5"	
m2(E)	2	#5	23'-5"	
m3(E)	1	#6	18'-5"	
m4(E)	1	#6	23'-3"	
m5(E)	10	#4	6'-8"	
m6(E)	5	#6	4'-10"	
m7(E)	2	#4	8'-2"	
m8(E)	1	#6	3'-5"	
m9(E)	2	#5	2'-3"	
b4(E)	18	#4	6'-0"	
x1(E)	48	#6	6'-0"	
x2(E)	54	#6	7'-0"	
Reinforcement Bars (Epoxy Coated)				2,220
Class X Concrete Superstructure				112.5

Reinforcement bars designated (E) shall be epoxy coated.
Bars indicated thus 20 x 3 #5 etc. indicates 20 rings of bars with 3 lengths per ring.

SUPERSTRUCTURE DETAILS
I.A. RT. 100 SEC. 110BR-1
GRUNDY COUNTY
STA. 203+54.75

DESIGNED YASAMIN ESTHANI
CHECKED VECTOR VELEZ
DRAWN J. SCHNELLER
CHECKED M.M. BELTRACCI
EXAMINED [Signature]
PASSED [Signature]
APPROVED [Signature]
May 27 1987

FILE NAME =	USER NAME = bdecaene	DESIGNED -	REVISED -
V:\3195\66883 (South Section)\CADD Sheet\0366883-sht-exstruct-19.dgn		DRAWN -	REVISED -
PLOT SCALE = 2.0000 / 1 in.		CHECKED -	REVISED -
SHT.PLAN	PLOT DATE = 8/6/2013	DATE = 7/15/2013	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

106	4	106	75	SHEET NO. 9
				15 SHEETS

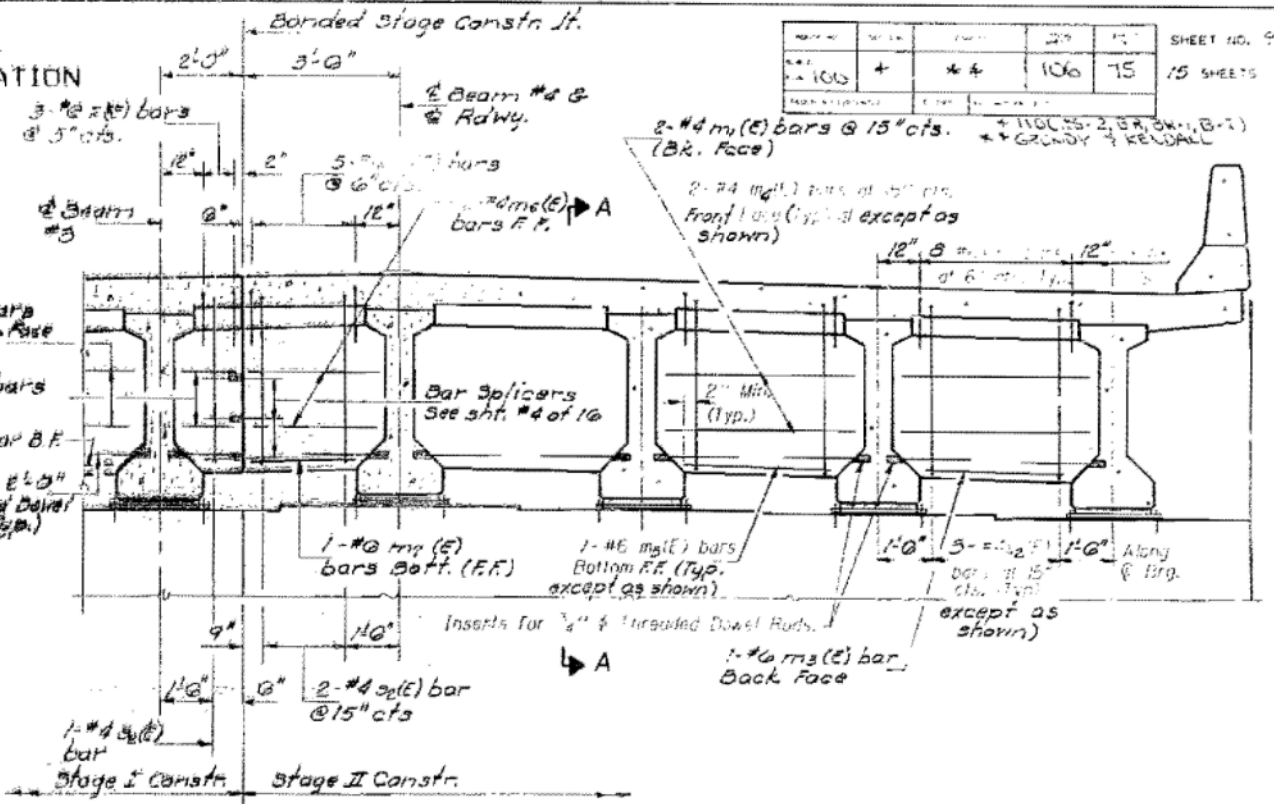
HAR # (E)

1/2" x 6" Beaded or solid
This filled beaded steel cavity
to All. 710.31 of the Std.
Specs. Automatically cut
width of 12" cts.
(55 lbs./each plate)

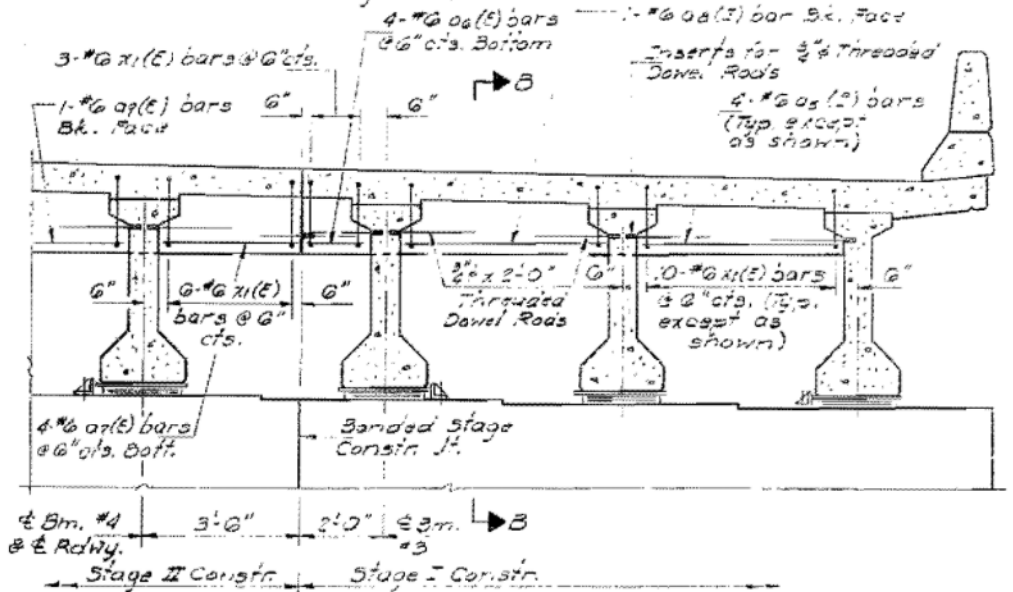
PREFORMED JOINT
SEAL (1 3/4")

BAR #1 (E)

Note: See sheet # 8 of 15 for location
of side retainers.
See sheet # 9 of 15 for splicer
details.



DIAPHRAGM AT NORTH ABUTMENT
(Looking North)



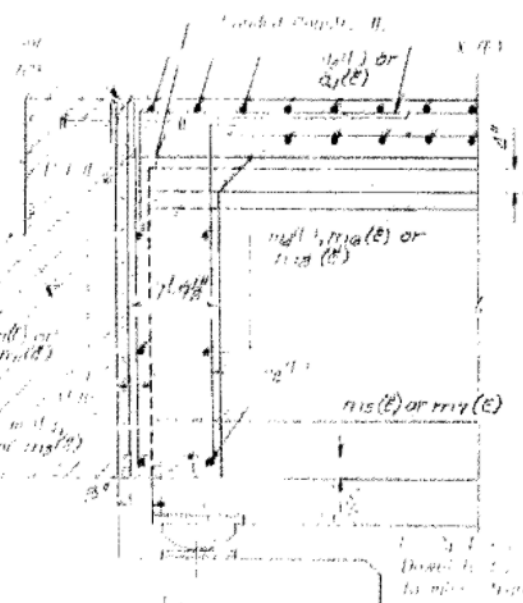
DIAPHRAGM AT SOUTH ABUTMENT
(Looking South)

HAR #5 (E)

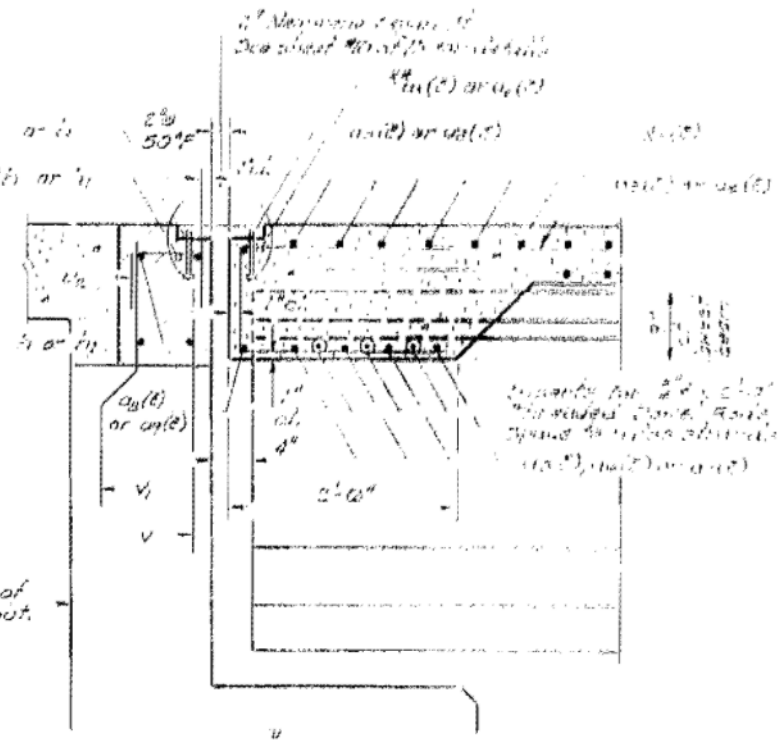
DETAIL "A"

TYP. END OF SEAL TREATMENTS

END OF SEAL CUT-OUT



SECTION A-A
(AT RT. 100)



SECTION B-B
(AT RT. 100)

FOR INFORMATION ONLY

DIAPHRAGM DETAILS
F.A. RT. 100 SEC. 110 BR-1
GRUNDY COUNTY
STA. 203+54.75

FILE NAME =	USER NAME = bdecreane	DESIGNED -	REVISED -
V:\3195\66883 (South Section)\CADD Sheet\0366883-shr-extract-20.dgn		DRAWN -	REVISED -
PLOT SCALE = 2.0000 1/1 in.		CHECKED -	REVISED -
SHT.PLAN	PLOT DATE = 8/6/2013	DATE = 7/15/2013	REVISED -

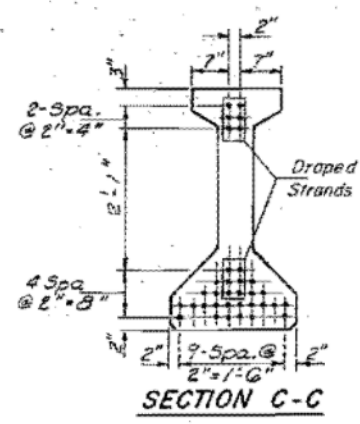
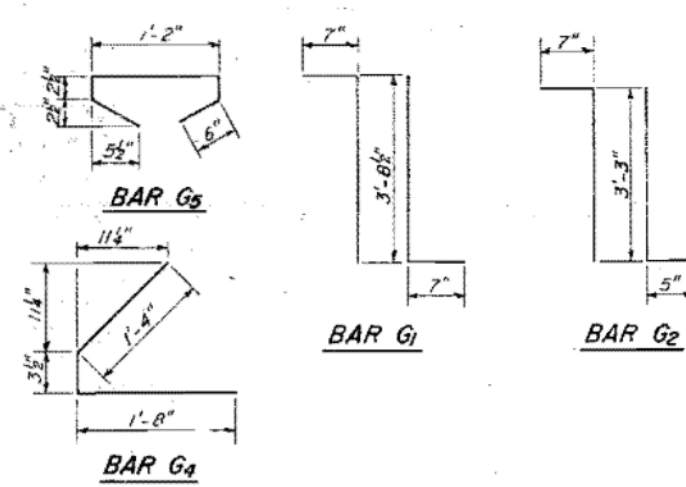
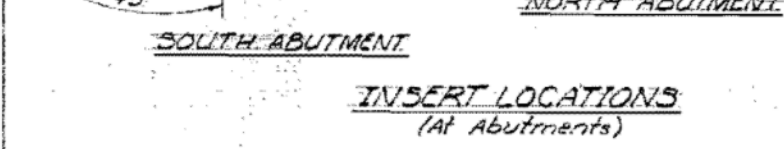
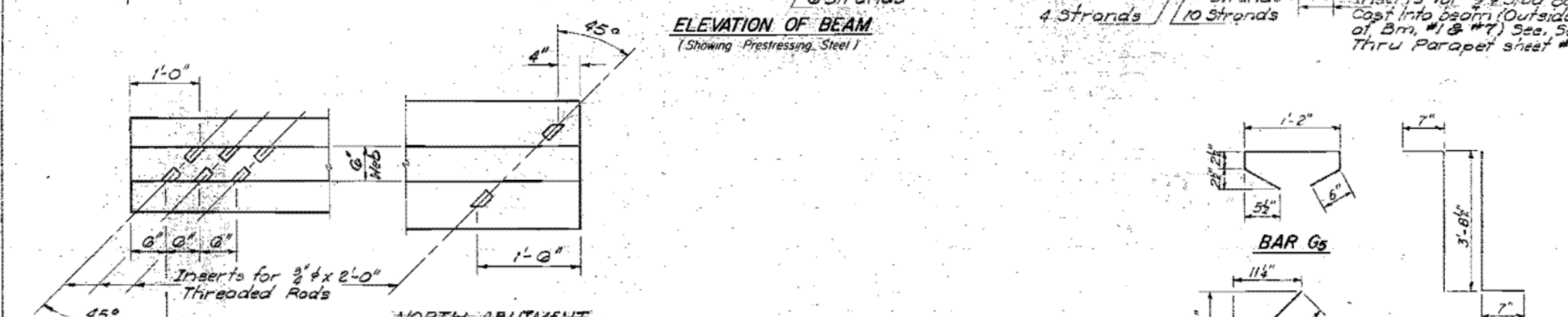
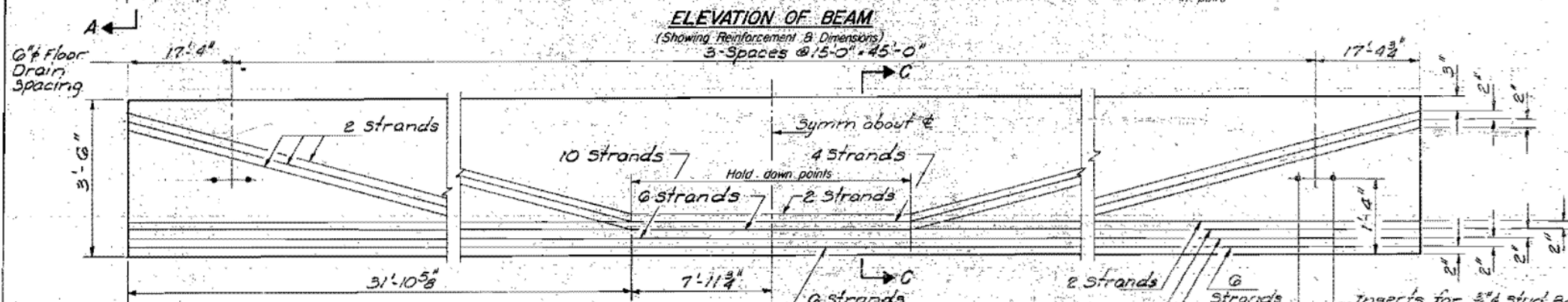
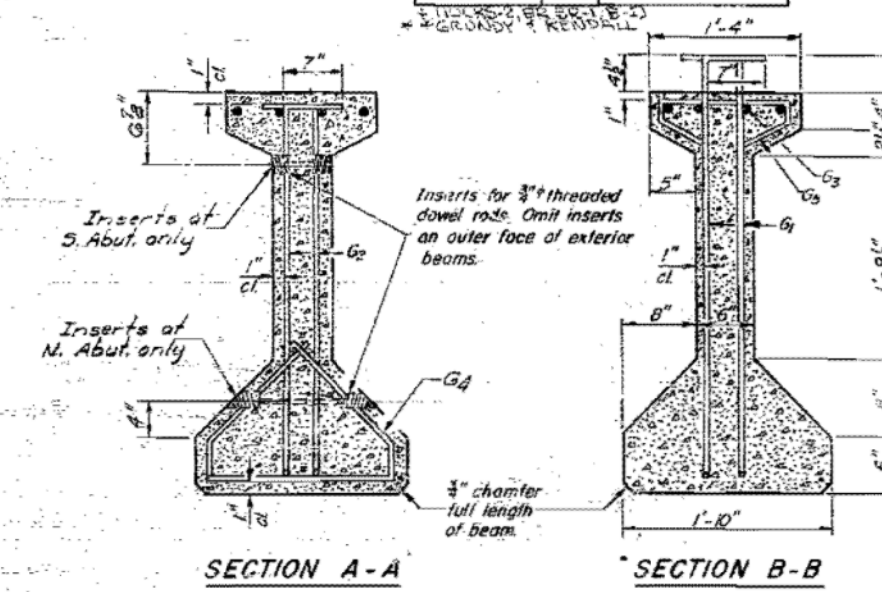
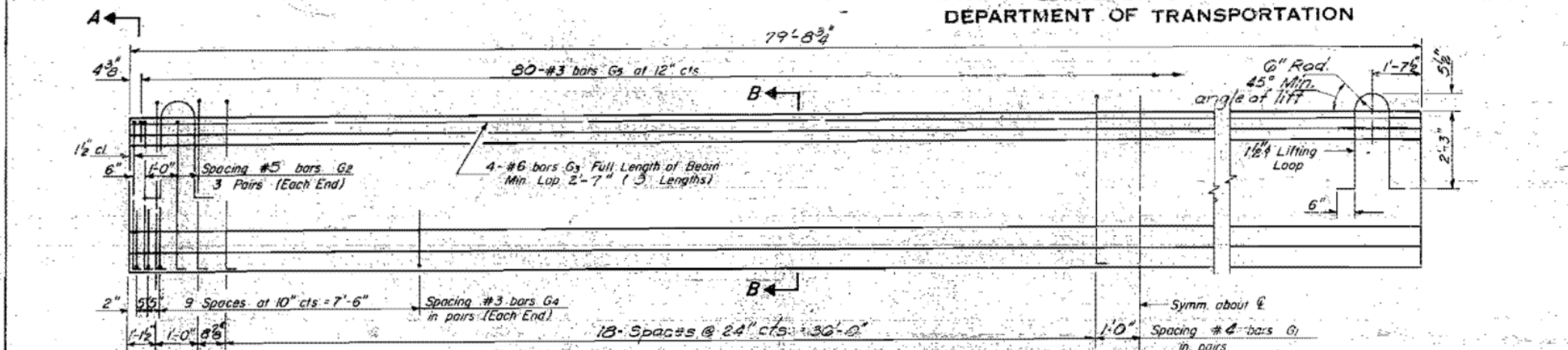
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL. RTE. 47 EXISTING BRIDGE PLANS	
SCALE: N/A	SHEET 20 OF 23 SHEETS STA. N/A TO STA. N/A

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	(110)R, BR & BR-1	GRUNDY	644	418
CONTRACT NO. 66B83			ILLINOIS FED. AID PROJECT	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	SHEET NO.	SHEET NO.
100	*	*	106	77
SHEETS				



***BAR LIST**

Bar No.	Size	Length	Shape
G1	#4	4'-10 1/2"	7L
G2	#5	4'-3"	7L
G3	#6	28'-3"	—
G4	#3	3'-3 1/2"	∠
G5	#3	2'-7"	∩

* For one beam only.

BILL OF MATERIAL

Item	Unit	Total
Furnishing & Erecting Precast Prestressed Concrete I-Beams, 42"	Lin Ft.	558

NOTES

All inserts and threaded dowel rods or inserts, reinforcing and Prestressing Steel, and other items which are cast into the Precast Concrete I-Beams shall be included in the contract unit price per linear foot of "Furnishing and Erecting Precast Prestressed Concrete I-Beams, 42 in."
 Insert for 3/4" threaded dowel rods are to be two strut, coil type for interior I-Beams and single coil, flared loop type for exterior I-Beams.
 Prestressing steel shall be non-galvanized high strength, stress-relieved 7-wire strand, Grade 270.
 The nominal diameter shall be 1/2" and the nominal cross-sectional area shall be 0.153 sq. in.
 Non-prestressing steel shall conform to A.A.S.H.T.O. designation M-31, M-42 or M-53 Grade 60.
 Steel for lifting loops shall be non-deformed bars f'y = 40,000 psi
 Required release strength, f'ci, shall be 4,800 psi.

FOR INFORMATION ONLY

BEAM DETAILS
F.A. RT. 100 SEC. 110BR-1
GRUNDY COUNTY
STA. 203+54.75

DESIGNED: Y. DAMIAN ESPAILLON
 CHECKED: VICTOR VELEZ
 DRAWN: J. SCHNELLER
 CHECKED: P.M. Petrone

EXAMINED: [Signature]
 PASSED: [Signature]
 APPROVED: [Signature]

DATE: 7/15/2013

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL. RTE. 47
EXISTING BRIDGE PLANS

FILE NAME: V:\3195\66883 (South Section)\CADD Sheets\0366883-sht-exstruct-21.dgn	USER NAME: bdecreane	DESIGNED: -	REVISED: -
PLOT SCALE: 2.0000' / in.	DATE: 8/6/2013	DRAWN: -	REVISED: -
SHT.PLAN	DATE: 7/15/2013	CHECKED: -	REVISED: -

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	(110R, BR & BR-1)	GRUNDY	644	419
CONTRACT NO. 66883				

ILLINOIS FED. AID PROJECT

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

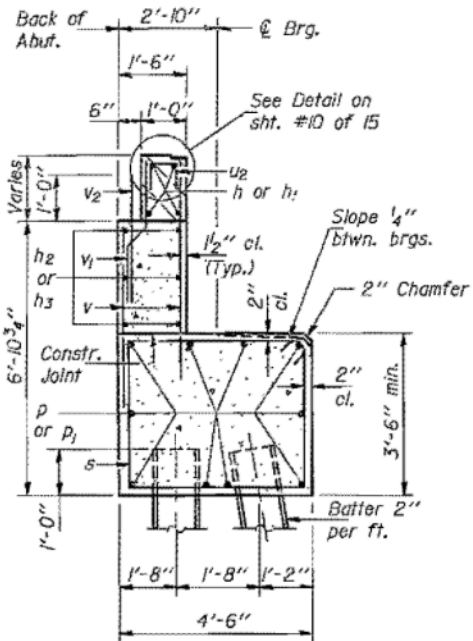
DATE	REVISION	BY	NO.	DATE	SHEET NO. 14
					15 SHEETS

Notes: Space reinforcement bars in cap to miss anchor bolts.
Pour steps monolithically with cap.
Hatched area to be poured after superstructure is in place. Class X Concrete Superstructure in hatched area is billed with the superstructure. Quantity on sheet #8 of 15.
See sheet #5 of 15 for Splicer Details.
All edges shall have standard 3/4" chamfer.

FOR INFORMATION ONLY

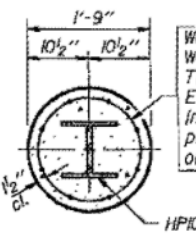
PILE DATA

Type: Steel HPI0x42
Capacity: Driven to refusal
Est. Length: 42 Ft.
No. Required: 10 + 1 test pile



SEC. THRU ABUT.

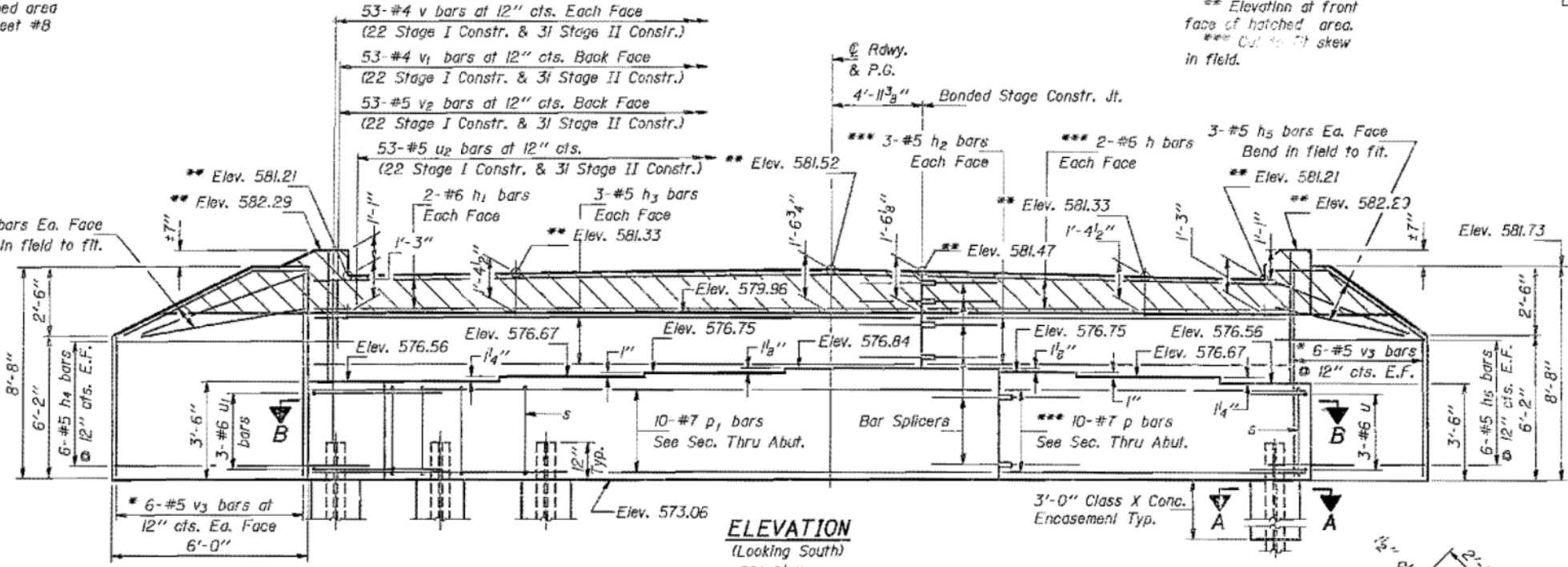
BAR h5



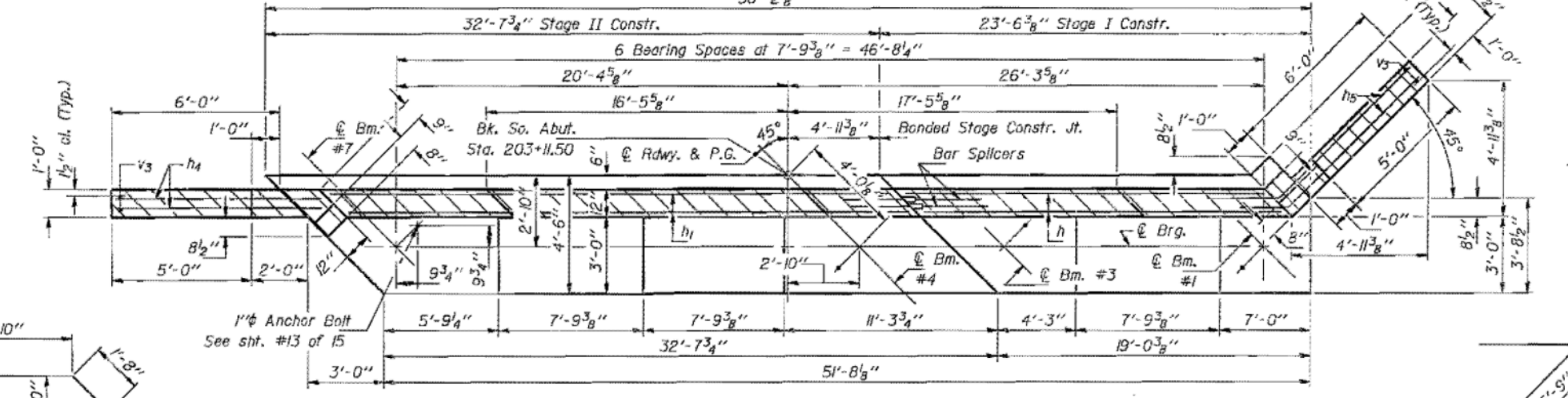
SECTION A-A

Welded wire fabric 6 x 6-W4.0 x W4.0 weighing 58#/100 sq. ft. The cost of Class X Concrete Encasement and Reinforcement is incidental to the cost of furnishing piles. Forms for encasement may be omitted when soil conditions will permit.

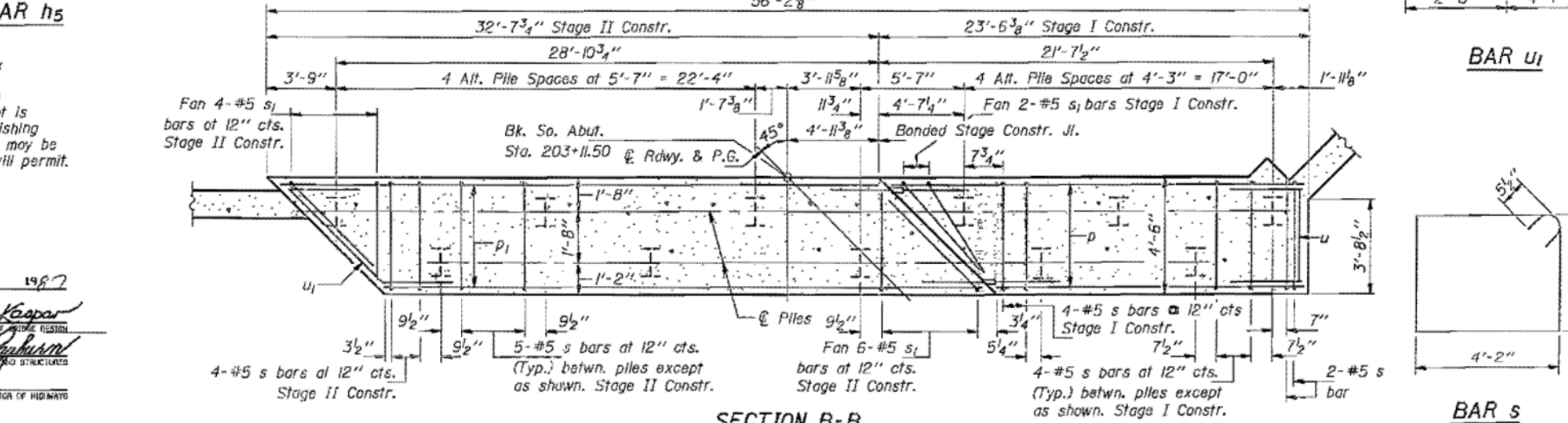
DESIGNED	Y. VELIZ	EXAMINED	Prof. J. Kasper
CHECKED	VICTOR VELIZ	PASSED	James J. Kasper
DRAWN	John F. Schneller Jr.	APPROVED	
CHECKED	P.M. Petrone		



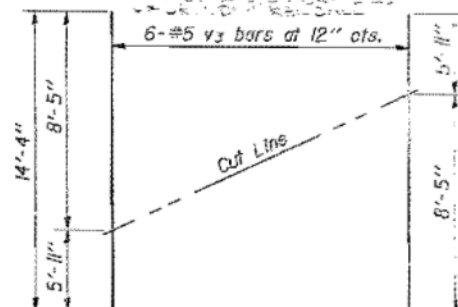
ELEVATION
(Looking South)
56'-2 1/2"



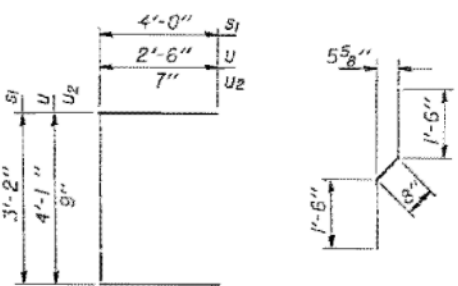
TOP VIEW
56'-2 1/2"



SECTION B-B



* FIELD CUTTING DIAGRAM
Order v3 bars full length. Cut to fit and use remainder in opposite face.



BAR S1, U & U2

BAR v1

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h	4	#6	23'-4"	
h1	4	#6	32'-5"	
h2	6	#5	23'-4"	
h3	6	#5	32'-5"	
h4	18	#5	8'-6"	
h5	18	#5	8'-6"	
p	10	#7	23'-4"	
p1	10	#7	32'-5"	
s	43	#5	15'-7"	
s1	12	#5	14'-6"	
u	3	#6	9'-1"	
u1	3	#6	10'-9"	
u2	53	#4	1'-11"	
v	106	#4	6'-0"	
v1	53	#4	3'-8"	
v2	53	#5	3'-0"	
v3	12	#5	14'-4"	
Class X Concrete		Cu. Yd.	45.5	
Reinforcement Bars		Lbs.	4,080	
Steel Piles (HPI0x42)		Lin. Ft.	420	
Steel Test Piles (HPI0x42)		Each	1	

SOUTH ABUTMENT
F.A. RT. 100 SEC. 110BR-1
GRUNDY COUNTY
STA. 203+54.75

BAR u1

BAR u2

BAR s

FOR INFORMATION ONLY

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

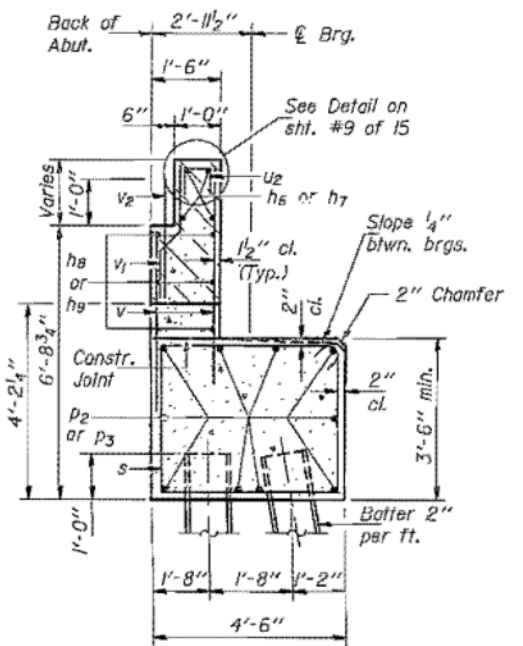
DATE	REVISION	BY	DATE	NO.

SHEET NO. 5
OF 15 SHEETS

Notes: Space reinforcement bars in cap to miss anchor bolts. Four steps monolithically with cap. Hatched area to be poured after superstructure is in place. Class X Concrete Superstructure in hatched area is built with the superstructure. Quantity on sheet #8 of 15. See sheet #5 of 15 for Splicer Details. All edges shall have standard 3/4" chamfer.

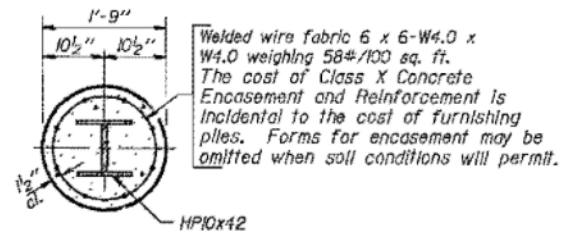
PILE DATA

Type: Steel HPI0x42
Capacity: Driven to refusal
Est. Length: 45 Ft.
No. Required: 11



SEC. THRU ABUT.

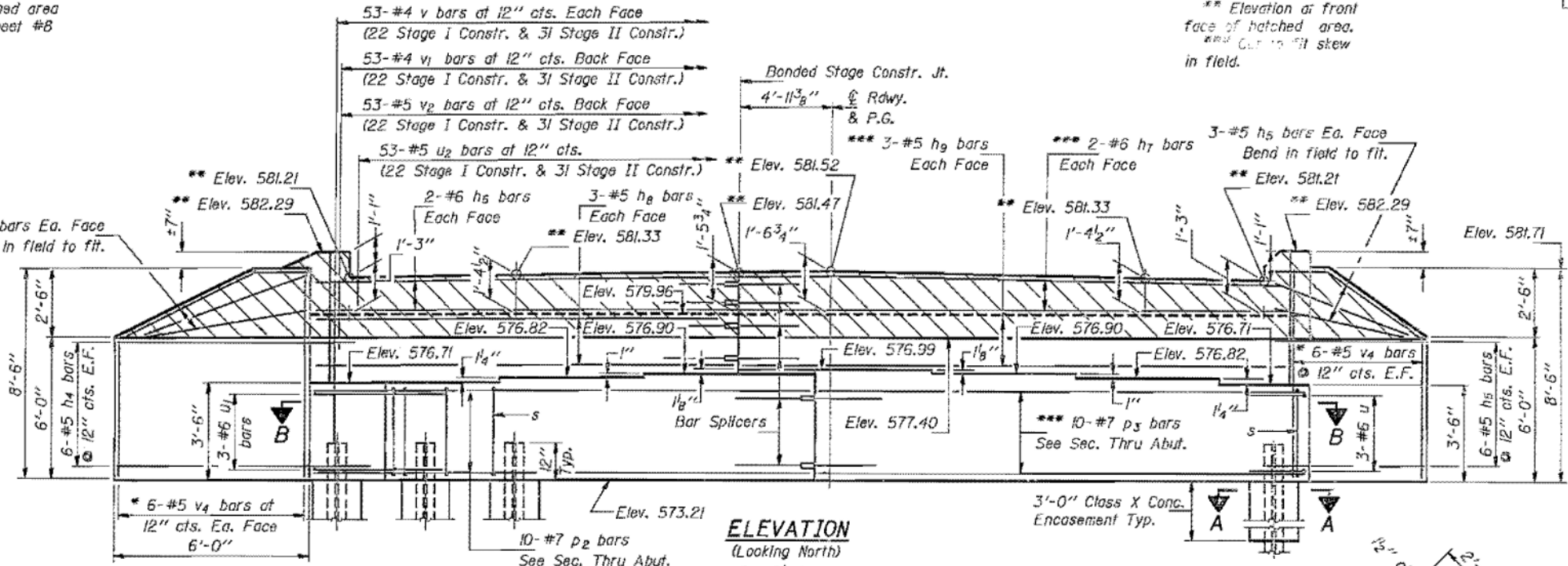
BAR h5



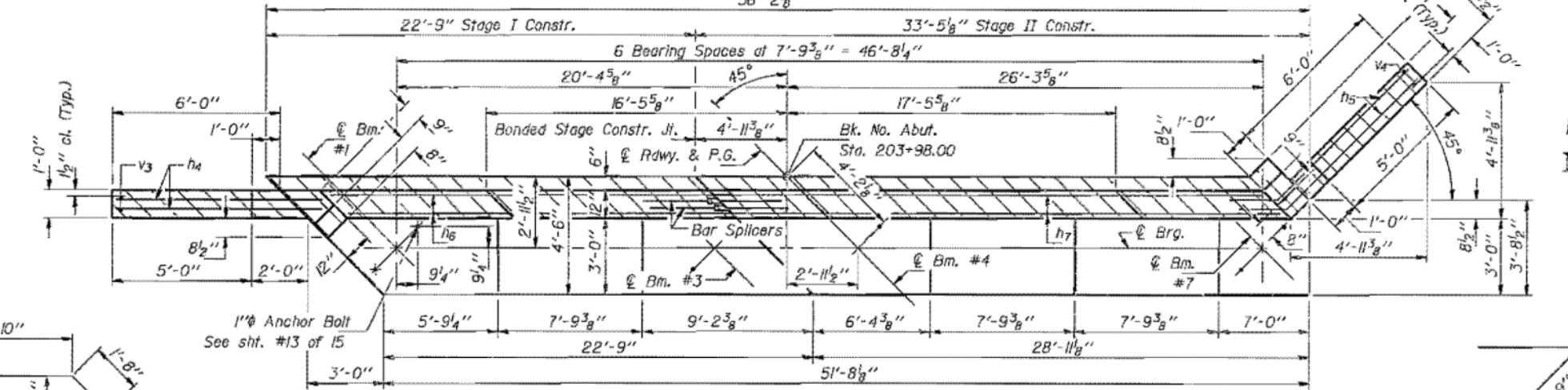
SECTION A-A

DESIGNED	MINNIE EISELE
CHECKED	VECTOR VERIZ
DRAWN	John F. Schneller Jr.
CHECKED	EMMELINE

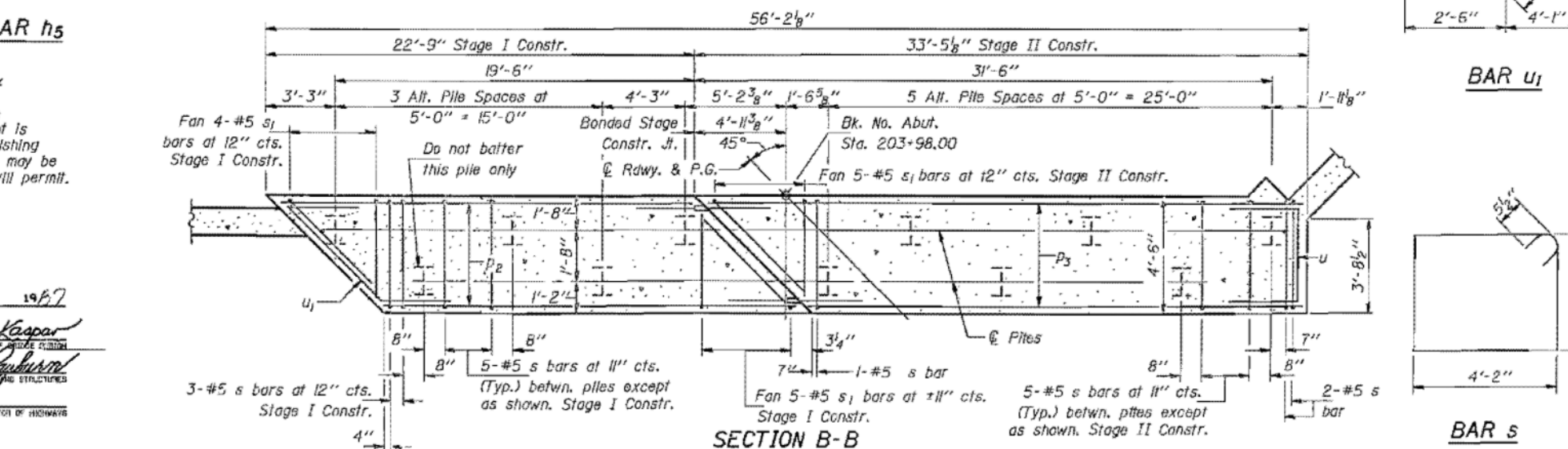
EXAMINED	May 27 1967
PASSED	James J. Kasper
APPROVED	James J. Kasper



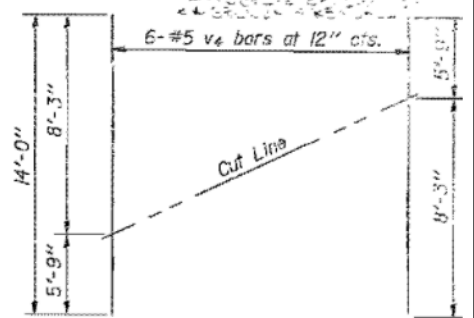
ELEVATION
(Looking North)



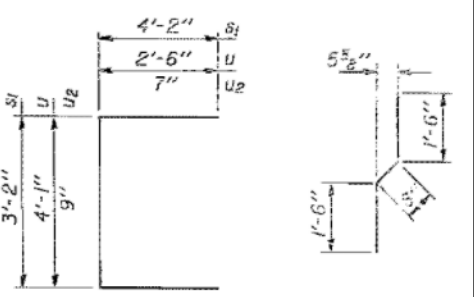
TOP VIEW



SECTION B-B



FIELD CUTTING DIAGRAM
Order v4 bars full length. Cut to fit and use remainder in opposite face.



BAR s1, u & u2

BAR v1

BILL OF MATERIAL

Bar No.	Size	Length	Stages
h4	#5	8'-6"	Stage I
h5	#5	8'-6"	Stage II
h6	#6	22'-6"	Stage I
h7	#6	33'-0"	Stage II
h8	#5	22'-6"	Stage I
h9	#5	33'-0"	Stage II
p2	#7	22'-6"	Stage I
p3	#7	33'-2"	Stage II
s	#5	15'-7"	Stage I
s1	#5	11'-6"	Stage II
u	#6	9'-1"	Stage I
u1	#6	10'-9"	Stage II
u2	#4	1'-11"	Stage II
v	#4	6'-0"	Stage I
v1	#4	3'-8"	Stage II
v2	#5	3'-0"	Stage I
v4	#5	14'-0"	Stage II

NORTH ABUTMENT
F.A. RT. 100 SEC. 110BR-1
GRUNDY COUNTY
STA. 203+54.75

WATER MAIN 6"		
LOCATION	STATE	CITY
	FOOT	FOOT
6037+16.17 (66.53 LT)	10	
6072+88.00 (99.85 RT)	5	
6082+86.00 (75.00 RT)	5	
6098+02.81 (83.19 RT)	5	
6150+78.36 (79.65 RT)	5	
AIRPORT ROAD 308+35.9 (30.9 LT)		11
PROLOGIS PRKWY. 1602+96.81 (22.35' RT)	5	
TOTAL	35	11

WATER VALVES 6"		
LOCATION	STATE	CITY
	EACH	EACH
6037+16.17 (66.53 LT)	1	
6044+89.83 (67.00 LT)	1	
6072+88.00 (99.85 RT)	1	
6082+86.00 (75.00 RT)	1	
6098+02.81 (83.19 RT)	1	
6150+78.36 (79.65 RT)	1	
AIRPORT ROAD 308+35.9 (30.9 LT)	1	
PROLOGIS PRKWY. 1602+96.81 (22.35 RT)	1	
TOTAL	8	0

WATER VALVES 12"		
LOCATION	STATE	CITY
	EACH	EACH
6029+00 (86.5 RT)	1	
6038+03.78 (55.97 LT)	1	
6039+27.06 (64.80 LT)	1	
6039+60.88 (69.29 RT)	1	
6044+47.94 (66.56 RT)	1	
6046+01.97 (60.89 LT)	1	
6046+23.56 (61.77 LT)	1	
6047+75.16 (61.34 RT)	1	
6049+99.95 (58.12 RT)	1	
6071+65.00 (65.78 RT)	1	
6072+05.65 (95.26 RT)	1	
6072+09.65 (104.85 RT)	1	
6072+33.82 (95.44 RT)	1	
6090+10.94 (57.74 RT)	1	
6098+09.19 (63.67 RT)	1	
6099+05.15 (65.51 RT)	1	
6179+07.56 (135.24 RT)	1	
6203+88.74 (138.53 RT)		1
GRANVILLE ROAD 101+28.61 (73.89 RT)	1	
GRANVILLE ROAD 105+50.00 (30.48 RT)	1	
TOTAL	19	1

FIRE HYDRANTS TO BE ADJUSTED		
LOCATION	STATE	CITY
	EACH	EACH
6041+09.57 (67.25 LT)	1	
6044+45.39 (68.93 RT)	1	
TOTAL	2	0

WATER MAIN 12"		
LOCATION	STATE	CITY
	FOOT	FOOT
6029+00 (86.5 RT) to 6039+60.88 (69.29 RT)	1076	
6038+03.78 (55.97 LT) to 6039+27.06 (64.80 LT)	163	
6044+47.94 (66.56 RT) to 6044+98.74 (56.43 RT)	51	
6046+01.97 (60.89 LT) to 6046+23.56 (61.77 LT)	33	
6047+75.16 (61.34 RT) to 6049+99.95 (58.12 RT)	187	
6048+35.94 (63.74 LT) to 6048+82.62 (63.03 LT)	70	
6071+75 LT		32
6071+65.00 (65.78 RT) to 6090+10.94 (57.74 RT)	1915	
6072+05.65 (95.26 RT) to 6072+05.65 (35.66 RT)	25	
6072+33.82 (104.85 RT) to 6072+33.82 (86.02 RT)	24	
6098+09.19 (63.67 RT) to 6099+05.15 (55.51 RT)	134	
6097+72 LT		31
6178+70.87 (96.26 RT) to 6179+07.56 (135.24 RT)		82
6203+88.74 (138.53 RT) to 6203+89.07 (100.0 LT)		239
GRANVILLE ROAD 100+65.67 (77.20 RT) to 105+50 (30.48 RT)	500	
AIRPORT ROAD 308+25.0 (29.0 LT) to 308+76.0 (20.0 LT)		55
TOTAL	4178	439

FIRE HYDRANTS TO BE MOVED		
LOCATION	STATE	CITY
	EACH	EACH
6037+16.17 (66.53 LT)	1	
6044+89.83 (67.00 LT)	1	
6072+88.00 (99.85 RT)	1	
6082+86.00 (75.00 RT)	1	
6098+02.81 (83.19 RT)	1	
6150+78.36 (79.65 RT)	1	
AIRPORT ROAD 308+35.9 (30.9 LT)	1	
PROLOGIS PRKWY. 1604+24.3 (23.3 LT)	1	
TOTAL	8	0

VALVE BOXES TO BE ADJUSTED		
LOCATION	STATE	CITY
	EACH	EACH
6041+10 LT	1	
6044+45 RT	1	
6046+17 RT	1	
6204+05 RT		1
TOTAL	3	1

VALVE BOXES TO BE REMOVED		
LOCATION	STATE	CITY
	EACH	EACH
6037+13 LT	1	
6038+44 LT	1	
6046+05 LT	1	
6072+04 RT	1	
6072+06 RT	1	
6072+20 RT	1	
6072+33 RT	1	
6082+86 RT	1	
6098+03 RT	1	
6151+66 RT	1	
GRANVILLE ROAD 100+66 RT	1	
GRANVILLE ROAD 100+68 RT	1	
AIRPORT ROAD 309+10 LT	1	
AIRPORT ROAD 309+14 LT	1	
PROLOGIS PRKWY. 1604+24 RT	1	
TOTAL	15	0

WATER MAIN IN CASING 12"			
LOCATION	STATE	CITY	STORM SEWER INVERT AT CROSSING
	FOOT	FOOT	
6029+05 LT	22		545.00
6029+94 LT	22		545.26
6032+60 LT	22		546.17
6033+43 LT	18		547.18
6034+43 LT	20		547.52
6035+26 LT	21		547.74
6036+10 LT	22		547.80
6037+00 LT	23		547.61
NOT USED			
6040+95 LT	22		547.45
6040+80 RT	17		546.24
6041+80 RT	22		545.81
NOT USED			
NOT USED			
6044+25 RT	23		546.66
6045+20 LT	33		
6047+00 LT	22		547.24
6047+10 RT	23		546.40
6048+00 RT	22		547.00
6048+24.25 (63.92 LT) to 6048+80.57 (63.05 LT)	57		547.19
6048+70 RT	23		546.49
6049+50 LT	21		
6049+50 RT	22		547.82
6050+65 LT	19		
6050+65 RT	24		547.46
6052+00 RT	25		547.42
6053+35 RT	25		548.31
6054+70 RT	25		548.73
6055+90 RT	25		547.89
6056+90 RT	25		549.21
6058+00 RT	25		549.77
6059+00 RT	22		550.54
6060+40 RT	22		548.01
6061+80 RT	21		
6062+45 RT	22		549.65
6064+75 RT	25		551.00
6065+90 RT	24		550.43
6067+15 RT	22		550.76
6067+63.79 (64.87 RT) to 6067+92.94 (64.94 RT)	32		549.07
6068+40 RT	22		550.73
6069+45 RT	22		550.57
6070+75 RT	22		551.04
6095+25 RT	23		558.20
6096+35 RT	23		557.85
6097+40 RT	22		557.51
6099+65 RT	18		
6100+90 RT	18		
6102+20 RT	16		
6103+85 RT	16		
6105+40 RT	9		
6106+95 RT	19		
6178+29.48 (93.65 RT) to 6178+70.87 (96.26 RT)		42	572.20
AIRPORT ROAD 307+65 LT	25		579.17
TOTAL	1115	42	

VALVE VAULTS TO BE RECONSTRUCTED		
LOCATION	STATE	CITY
	EACH	EACH
6039+69 LT	1	
6071+74 RT	1	
PROLOGIS PRKWY. 1604+32.6 (26.1 RT)	1	
TOTAL	3	0

VALVE VAULTS TO BE ADJUSTED		
LOCATION	STATE	CITY
	EACH	EACH
6047+66 LT	1	
6047+87 LT	1	
TOTAL	2	0

WATER MAIN PLANS, DETAILS AND QUANTITIES PREPARED BY CITY OF MORRIS ENGINEERING CONSULTANT.

TRENCH BACKFILL		
LOCATION	STATE	CITY
	CU YD	CU YD
6029+05 LT	14.6	----
6029+94 LT	17.4	----
6032+60 LT	8.0	----
6033+95 LT	13.9	----
6035+20 LT	13.9	----
6036+60 LT	16.0	----
6036+43.86, 62.93' LT TO 6036+43.90, 55.95' LT	2.6	----
6038+00 LT	21.2	----
6040+95 LT	9.4	----
6044+92.82, 66.45' RT TO 6044+98.74, 66.43' RT	6.1	----
6045+20 LT	23.1	----
6050+65 RT	3.2	----
6052+00 RT	3.3	----
6053+35 RT	3.8	----
6054+70 RT	3.8	----
6055+90 RT	4.9	----
6056+90 RT	5.4	----
6058+00 RT	2.6	----
6059+00 RT	6.6	----
6060+40 RT	7.5	----
6061+80 RT	13.9	----
6062+45 RT	16.0	----
6064+75 RT	17.4	----
6065+90 RT	18.2	----
6072+48.08, 104.85' RT TO 6072+79.34, 104.85' RT	29.5	----
6075+36.26, 80.0' RT TO 6075+64.35, 80.0' RT	24.0	----
6082+42.93, 80.0' RT TO 6082+70.93, 80.0' RT	9.5	----
6178+76.40, 97.87' RT TO 6179+04.72, 97.15' RT	17.7	----
10+88.53 TO 11+88.53, TL	72.8	----
TOTAL	406	0

DOMESTIC WATER SERVICE BOXES		
LOCATION	STATE	CITY
	EACH	EACH
6034+57.98 (80.5 LT)	1	----
6036+41.74 (81.99 LT)	1	----
AIRPORT ROAD 308+20.87 (33.31 LT)	1	----
TOTAL	3	0

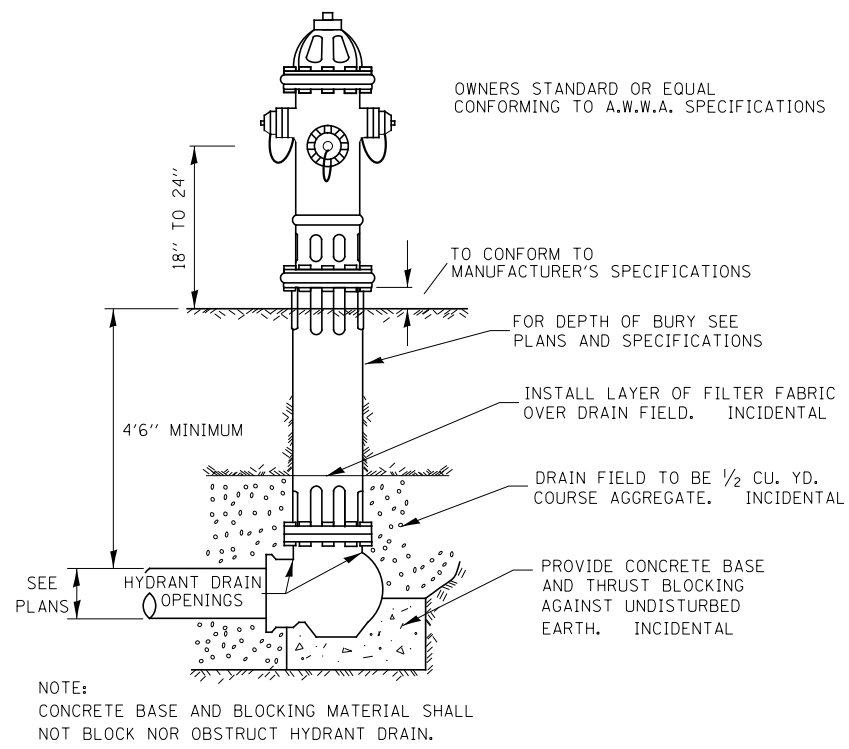
DOMESTIC METER VAULTS TO BE REMOVED		
LOCATION	STATE	CITY
	EACH	EACH
AIRPORT ROAD 308+98 LT	1	----
TOTAL	1	0

DOMESTIC WATER SERVICE BOXES TO BE REMOVED		
LOCATION	STATE	CITY
	EACH	EACH
6034+48 LT	1	----
6036+39 LT	1	----
AIRPORT ROAD 309+10 LT	1	----
TOTAL	3	0

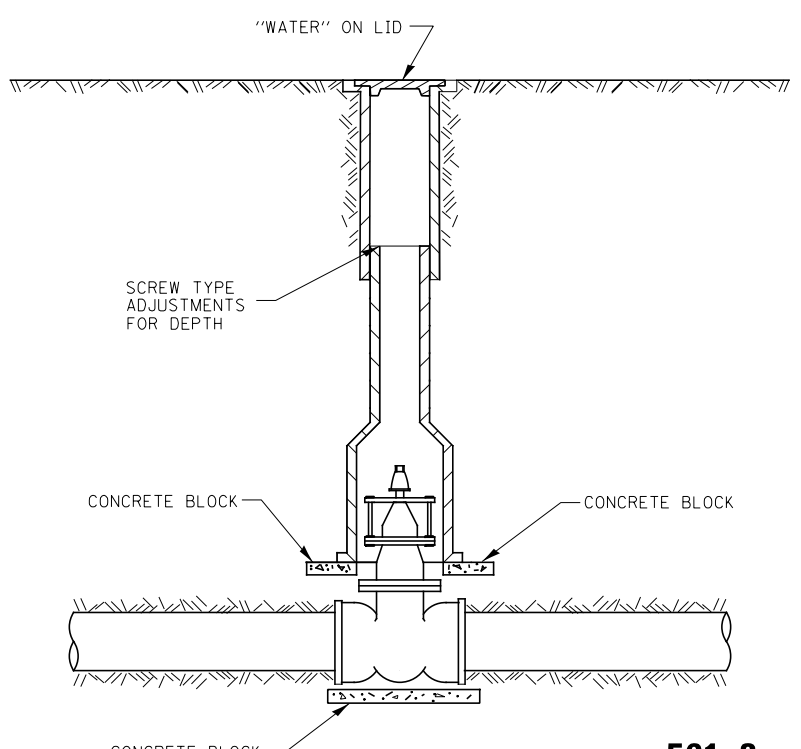
WATER SERVICE LINE 1"		
LOCATION	STATE	CITY
	FOOT	FOOT
6034+48.56 (82.0 LT) to 6034+57.76 (57.03 LT)	35	----
6036+38.74 (81.97 LT) to 6036+43.90 (55.95 LT)	31	----
AIRPORT ROAD 308+20.62 (17.55 LT) to 308+20.87 (33.31 LT)	16	----
TOTAL	82	0

STEEL CASINGS 18"	
LOCATION	
STA 6204+22	90' LT TO 110' RT LENGTH 200'

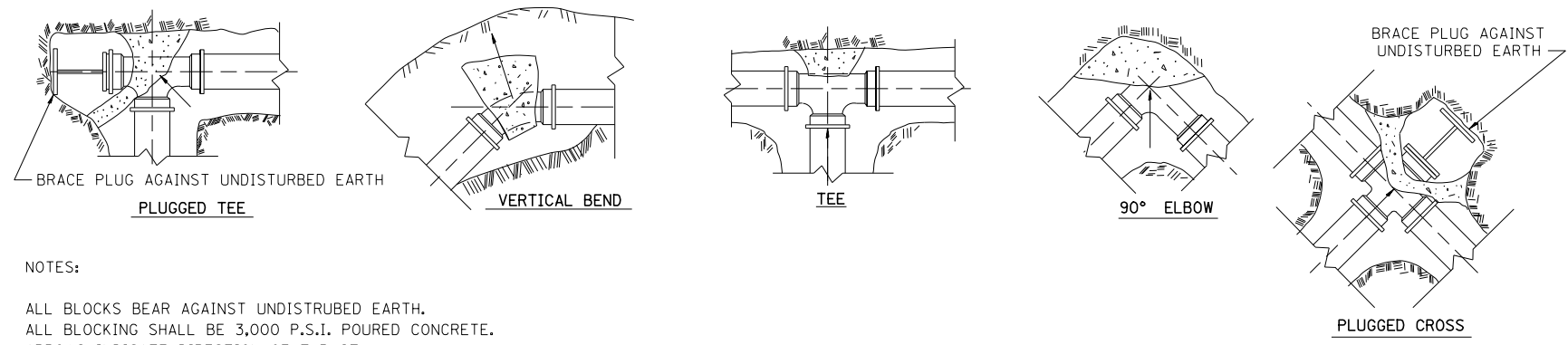
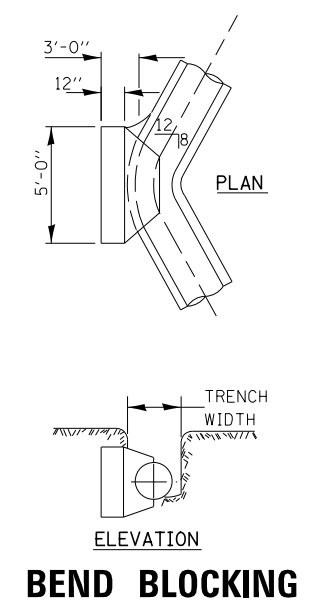
PLUG ENDS FOR FUTURE CROSSING
NO CONNECTIONS TO MAIN
100% STATE - URBAN



TYPICAL HYDRANT INSTALLATION 561-1



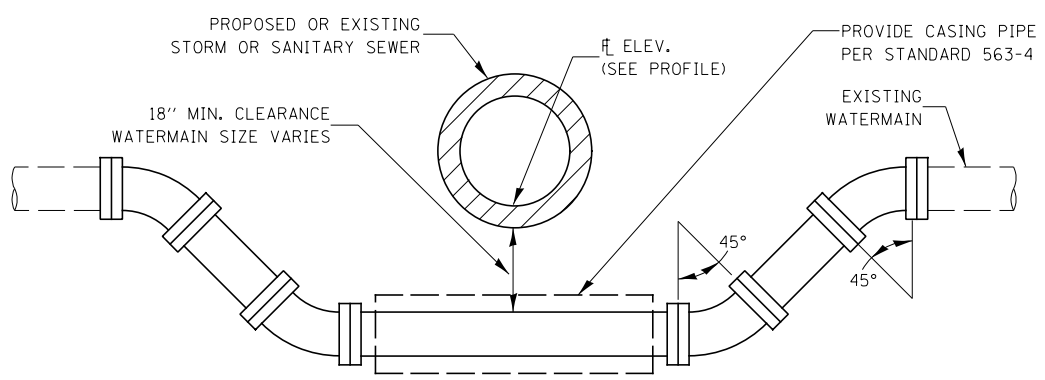
TYPICAL VALVE BOX INSTALLATION 561-3



NOTES:
 ALL BLOCKS BEAR AGAINST UNDISTURBED EARTH.
 ALL BLOCKING SHALL BE 3,000 P.S.I. POURED CONCRETE.
 ARROWS INDICATE DIRECTION OF THRUST.
 ALL FITTINGS SHOWN IN PLAN EXCEPT VERTICAL BEND.

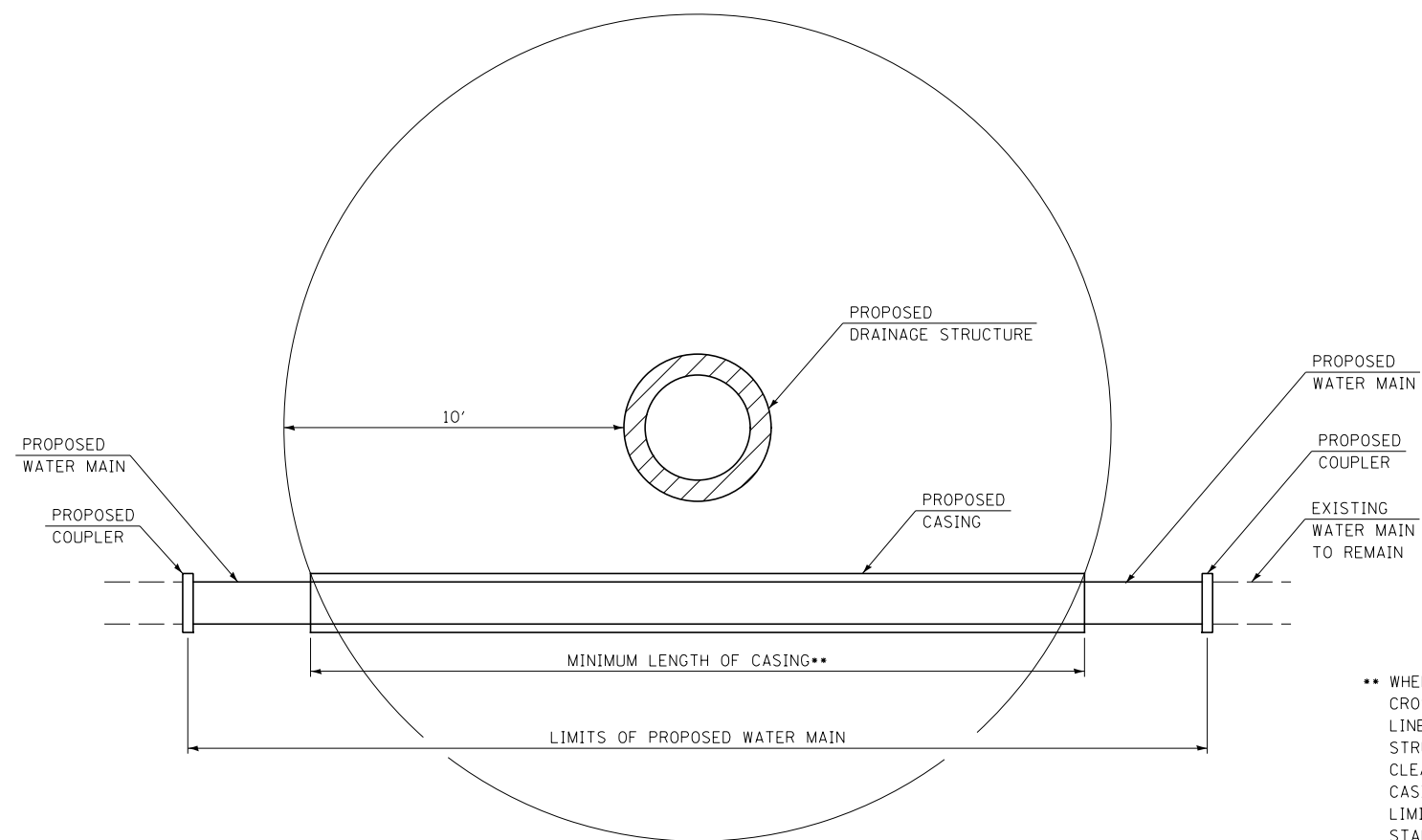
TYPICAL THRUST BLOCK INSTALLATIONS

561-5



CROSSING UNDERNEATH STORM SEWER PIPE

FILE NAME = D366B83-SHT-WM-DETAILS.DGN	USER NAME = ...	DESIGNED - PM	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL. RTE. 47 WATER MAIN DETAILS			F.A.P. RTE. 326	SECTION (110)R, BR & BR-1	COUNTY GRUNDY	TOTAL SHEETS 644	SHEET NO. 424
SHT.PLAN	PLOT SCALE = 1"=1'	CHECKED - JKC	REVISED -		SCALE: NONE	SHEET 3	OF 27 SHEETS	STA.	TO STA.	CONTRACT NO. 66B83		
	PLOT DATE = 09/12	DATE - 09/12	REVISED -		ILLINOIS FED. AID PROJECT							

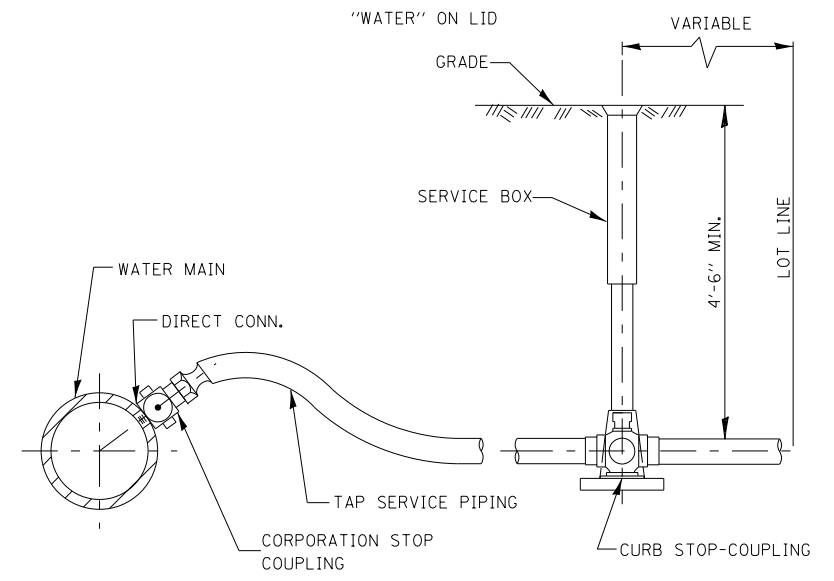


PLAN VIEW

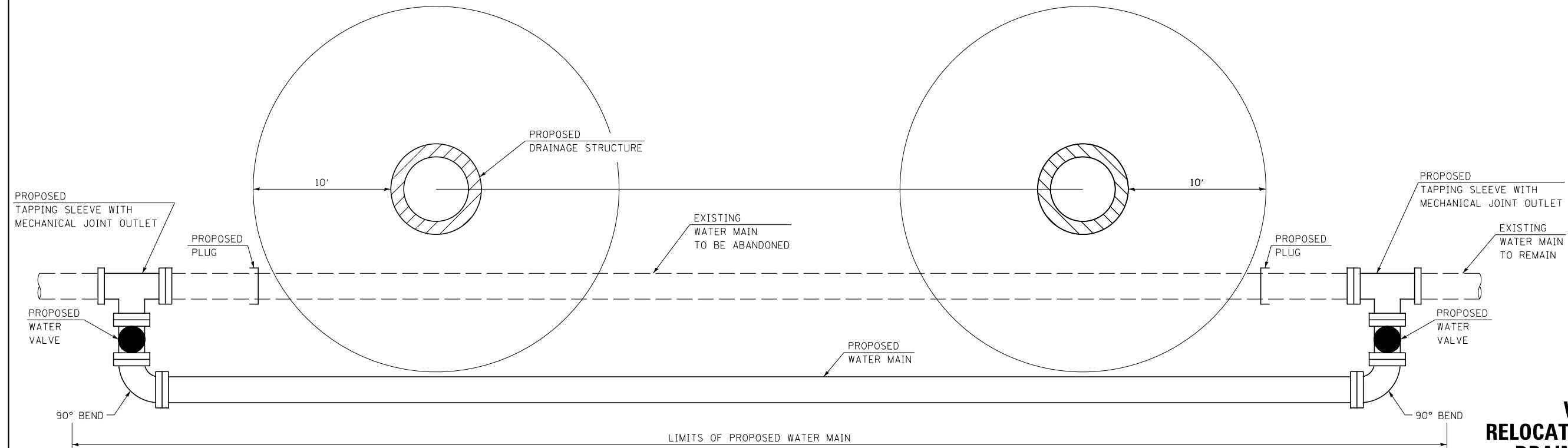
WATER MAIN CASING NEAR DRAINAGE STRUCTURE

•• WHEN WATER MAIN ALSO CROSSES UNDER A SEWER LINE LEAVING THE DRAINAGE STRUCTURE WITH > 18" CLEAR VERTICALLY THIS CASING SHALL EXTEND TO LIMITS REQUIRED BY STANDARD 563-4 ON SHEET ----

NOTE: ALL FITTINGS SHALL BE MECHANICAL JOINT.



TYPICAL TAP SERVICE PIPING

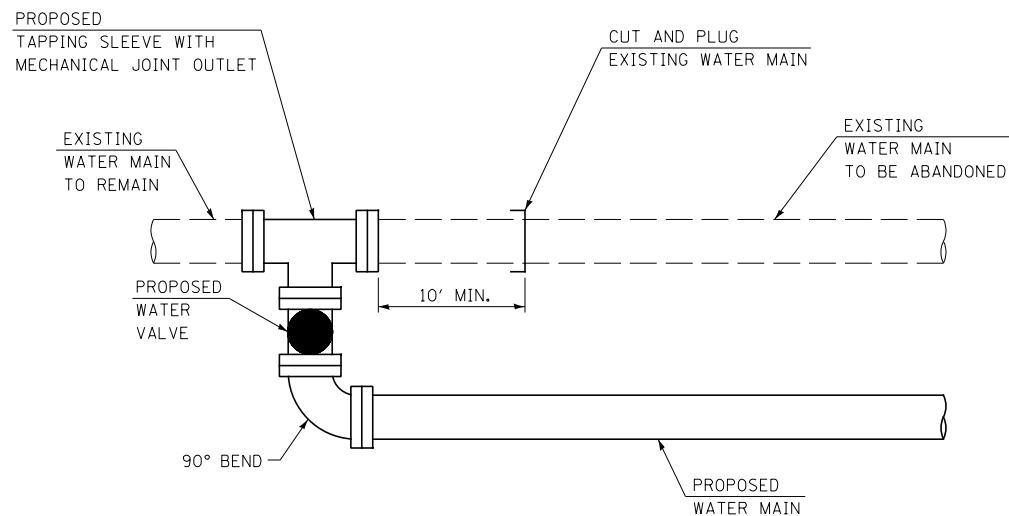


PLAN VIEW

WATER MAIN RELOCATION NEAR MULTIPLE DRAINAGE STRUCTURES

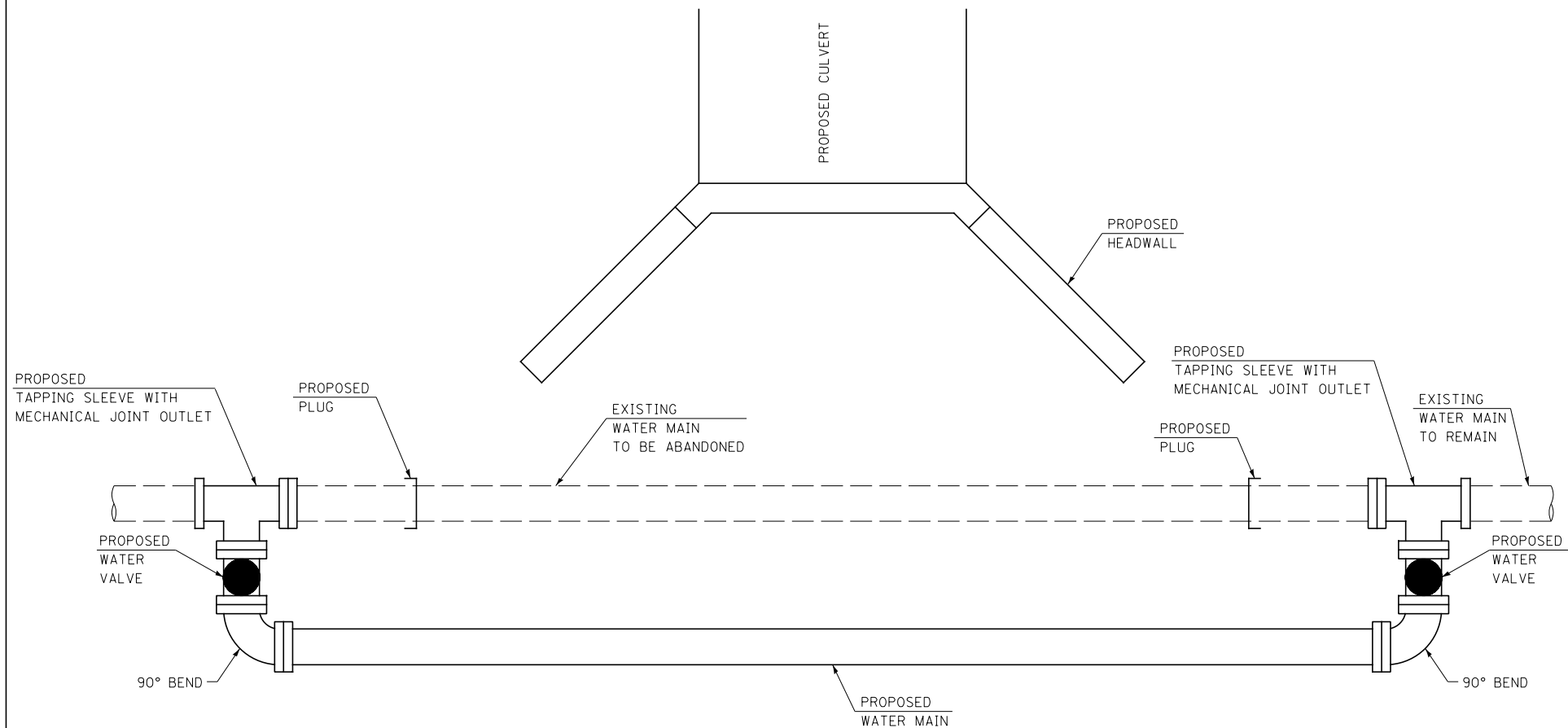
NOTE: ALL FITTINGS SHALL BE MECHANICAL JOINT.

FILE NAME = D366B83-SHT-WM-DETAILS.DGN	USER NAME = ...	DESIGNED - PM	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL. RTE. 47 WATER MAIN DETAILS		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
SHT.PLAN	PLOT SCALE = 1"=1'	DRAWN - NV	REVISED -		SCALE: NONE	SHEET 4	OF 27 SHEETS	326	(110)R, BR & BR-1	GRUNDY	644	425
	PLOT DATE = 09/12	CHECKED - JKC	REVISED -					CONTRACT NO. 66B83				
		DATE - 09/12	REVISED -					ILLINOIS FED. AID PROJECT				



TIE-IN TO EXISTING WATER MAIN

NOTE: ALL FITTINGS SHALL BE MECHANICAL JOINT.



WATER MAIN RELOCATION AT CULVERT

NOTE: ALL FITTINGS SHALL BE MECHANICAL JOINT.

SEQUENCE OF WORK AT RELOCATED WATER MAINS:

1. CONNECT TAPPING SLEEVE AND VALVE AT TIE-IN POINTS.
2. CONSTRUCT NEW MAIN, TEST, AND DISINFECT.
3. SHUT EXISTING VALVES NECESSARY TO ISOLATE MAIN, THEN CUT EXISTING MAIN BETWEEN TIE-IN POINTS AND CAP ACTIVE END OF MAIN.

FILE NAME = D366B83-SHT-WM-DETAILS.DGN

USER NAME = ...

DESIGNED - PM

REVISED -

DRAWN - NV

REVISED -

PLOT SCALE = 1"=1'

CHECKED - JKC

REVISED -

PLOT DATE = 09/12

DATE - 09/12

REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**IL. RTE. 47
WATER MAIN DETAILS**

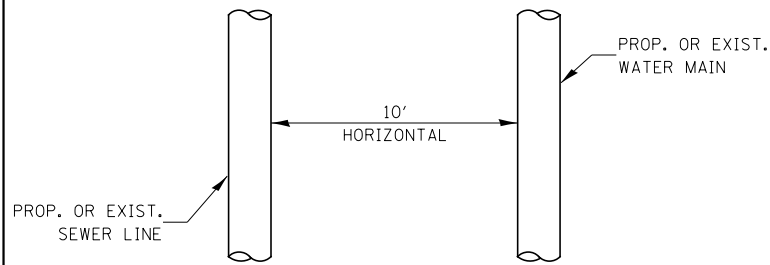
SCALE: NONE SHEET 5 OF 27 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	(110)R, BR & BR-1	GRUNDY	644	426

CONTRACT NO. 66B83

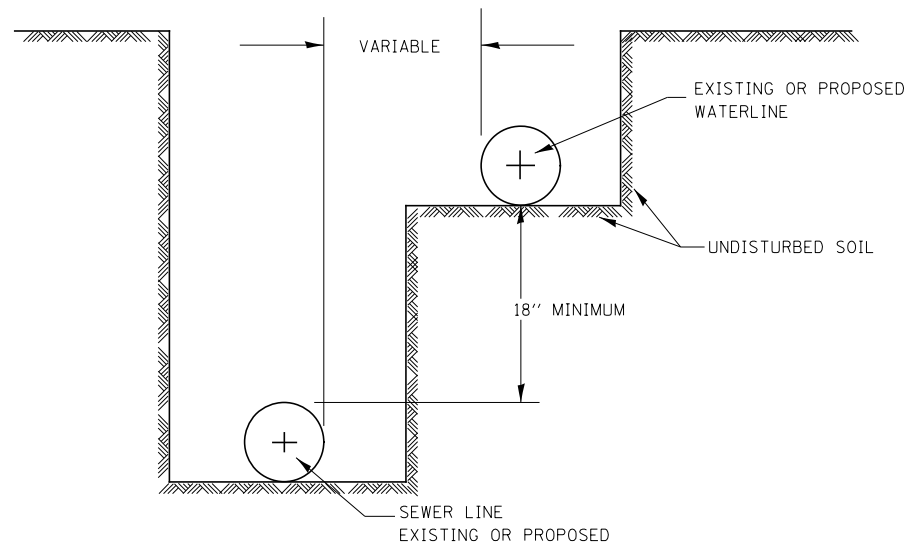
ILLINOIS FED. AID PROJECT

PROPOSED SEWER (OR WATER) IS LOCATED 10 FEET OR MORE FROM EXISTING WATER (OR SEWER).



PLAN VIEW

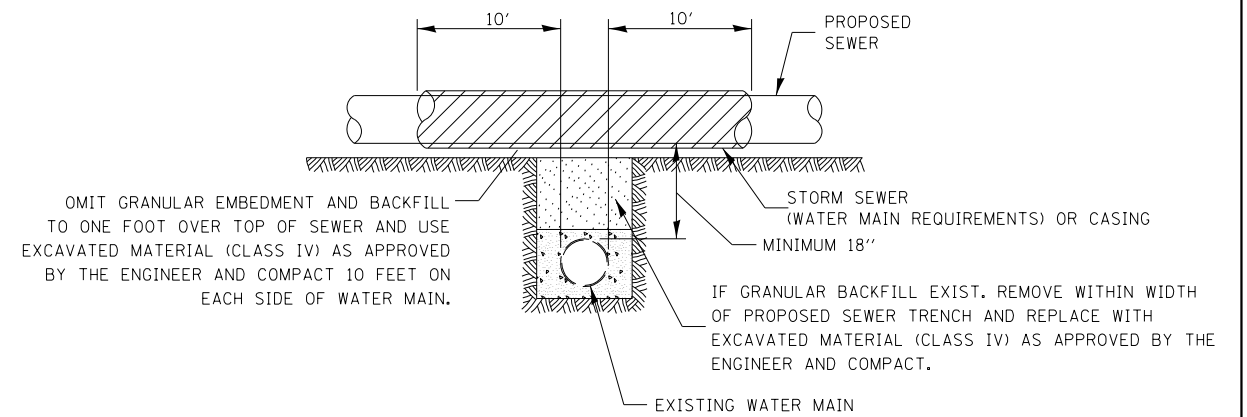
PROPOSED SEWER (OR WATER) IS LOCATED LESS THAN 10 FEET FROM EXISTING WATER (OR SEWER).



WATER AND SEWER SEPARATION REQUIREMENTS – HORIZONTAL SEPARATION

563-3

PROVIDE ADEQUATE SUPPORT FOR SEWER TO PREVENT SETTLING AND BREAKING THE WATER MAIN.



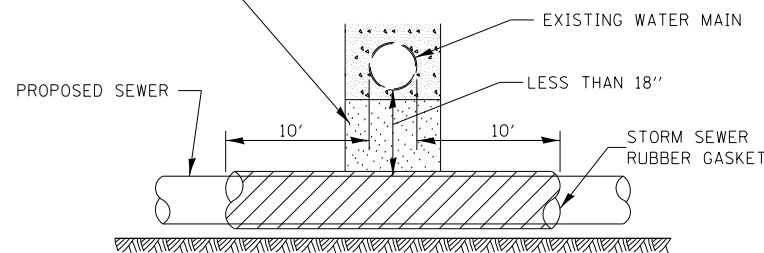
CASING SHALL BE OF WATERMAIN MATERIAL WITH AN INSIDE DIAMETER 2" LARGER IN DIAMETER THAN ENCASED PIPE OUTSIDE DIAMETER WITH BOTH ENDS OF CASING SEALED

PROPOSED SEWER LINE WITH MINIMUM 18" VERTICAL SEPARATION ABOVE EXISTING WATERMAIN

POINT LOADS SHALL NOT BE ALLOWED BETWEEN SEWER OR SEWER CASING AND WATER MAIN

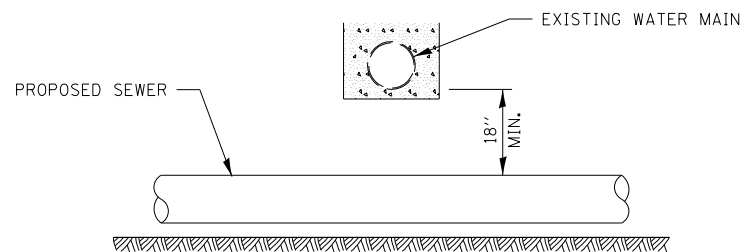
PROVIDE ADEQUATE SUPPORT FOR EXISTING WATER MAIN TO PREVENT DAMAGE DUE TO SETTLEMENT OF SEWER TRENCH

OMIT GRANULAR EMBEDMENT AND BACKFILL TO ONE FOOT OVER TOP OF SEWER AND USE EXCAVATED MATERIAL (CLASS IV) AS APPROVED BY THE ENGINEER AND COMPACT 10 FEET ON EACH SIDE OF WATER MAIN.



PROVIDE ADEQUATE SUPPORT FOR EXISTING WATER MAIN TO PREVENT DAMAGE DUE TO SETTLEMENT OF SEWER TRENCH

MAINTAIN 18" MINIMUM VERTICAL SEPARATION FOR 10' HORIZONTALLY

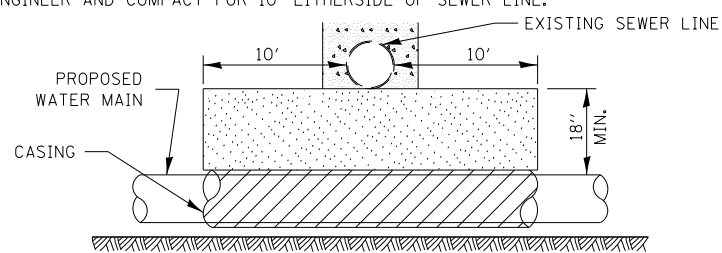


PROPOSED SEWER LINE BELOW EXISTING WATER MAIN

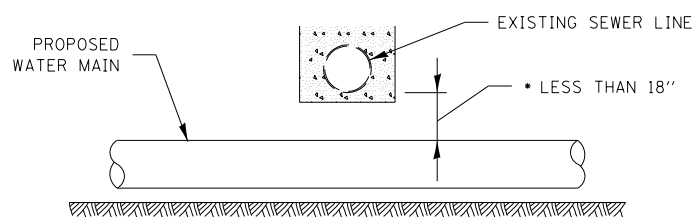
PROVIDE ADEQUATE SUPPORT FOR EXISTING SEWER LINE TO PREVENT DAMAGE DUE TO SETTLEMENT.

IF GRANULAR BACK FILL EXISTS, REMOVE WITHIN WIDTH OF EXISTING SEWER TRENCH AND REPLACE WITH EXCAVATED MATERIAL (CLASS IV) AS APPROVED BY THE ENGINEER AND COMPACT.

OMIT GRANULAR EMBEDMENT AND BACKFILL TO ONE FOOT OVER TOP OF WATER MAIN AND USE EXCAVATED MATERIAL (CLASS IV) AS APPROVED BY THE ENGINEER AND COMPACT FOR 10' EITHERSIDE OF SEWER LINE.



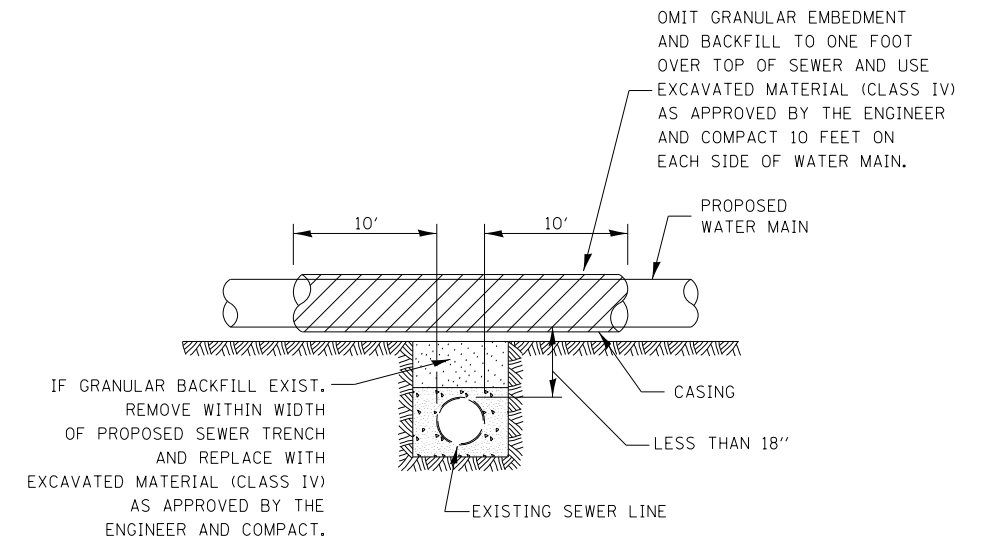
CASING SHALL BE OF WATER MAIN MATERIAL WITH AN INSIDE DIAMETER 2" LARGER IN DIAMETER THAN ENCASED PIPE OUTSIDE DIAMETER WITH BOTH ENDS OF CASING SEALED



* NOT ALLOWED
MUST MAINTAIN 18" VERTICAL SEPARATION

PROPOSED WATER MAIN BELOW EXISTING SEWER LINE

POINT LOADS SHALL NOT BE ALLOWED BETWEEN WATER MAIN CASING AND SEWER



CASING SHALL BE OF WATERMAIN MATERIAL WITH AN INSIDE DIAMETER 2" LARGER IN DIAMETER THAN ENCASED PIPE OUTSIDE DIAMETER WITH BOTH ENDS OF CASING SEALED

PROPOSED WATER MAIN ABOVE EXISTING SEWER LINE

563-4

FILE NAME = D366B83-SHT-WM-DETAILS.DGN	USER NAME = ...	DESIGNED - PM	REVISED -
		DRAWN - NV	REVISED -
SHT.PLAN	PLOT SCALE = 1"=1'	CHECKED - JKC	REVISED -
	PLOT DATE = 09/12	DATE - 09/12	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

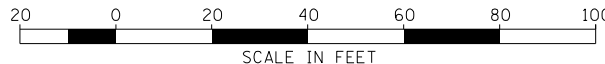
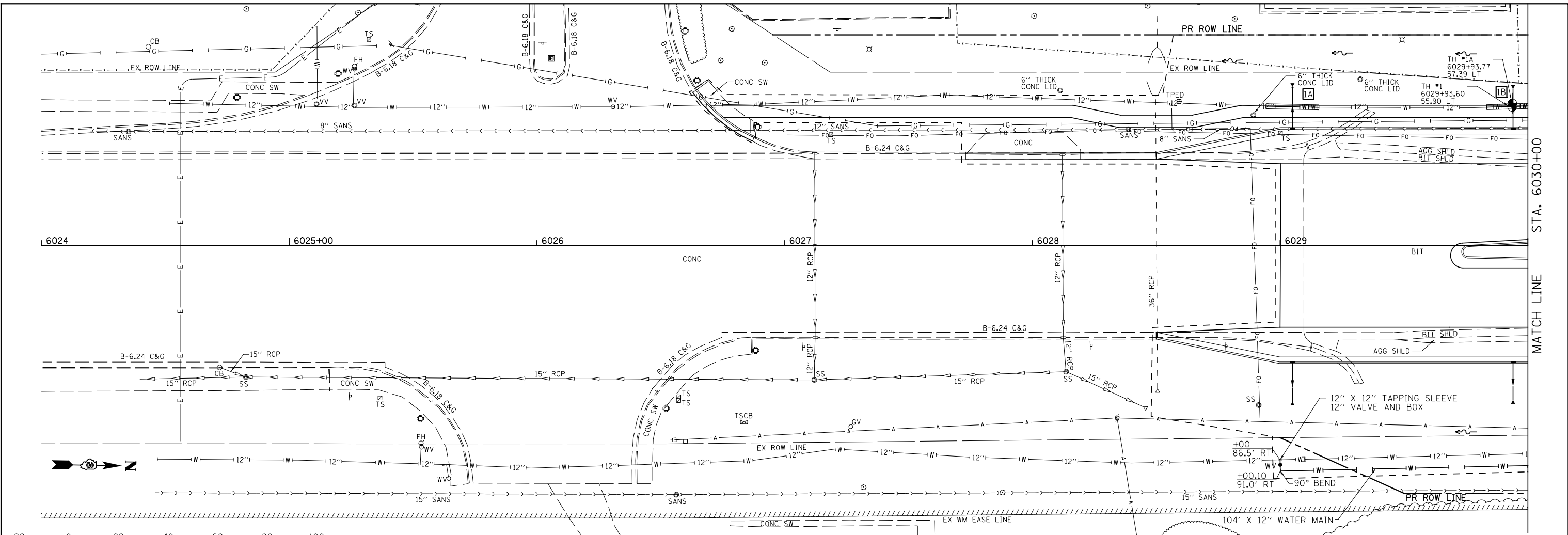
IL RTE. 47
WATER MAIN DETAILS

SCALE: NONE SHEET 6 OF 27 SHEETS STA. TO STA.

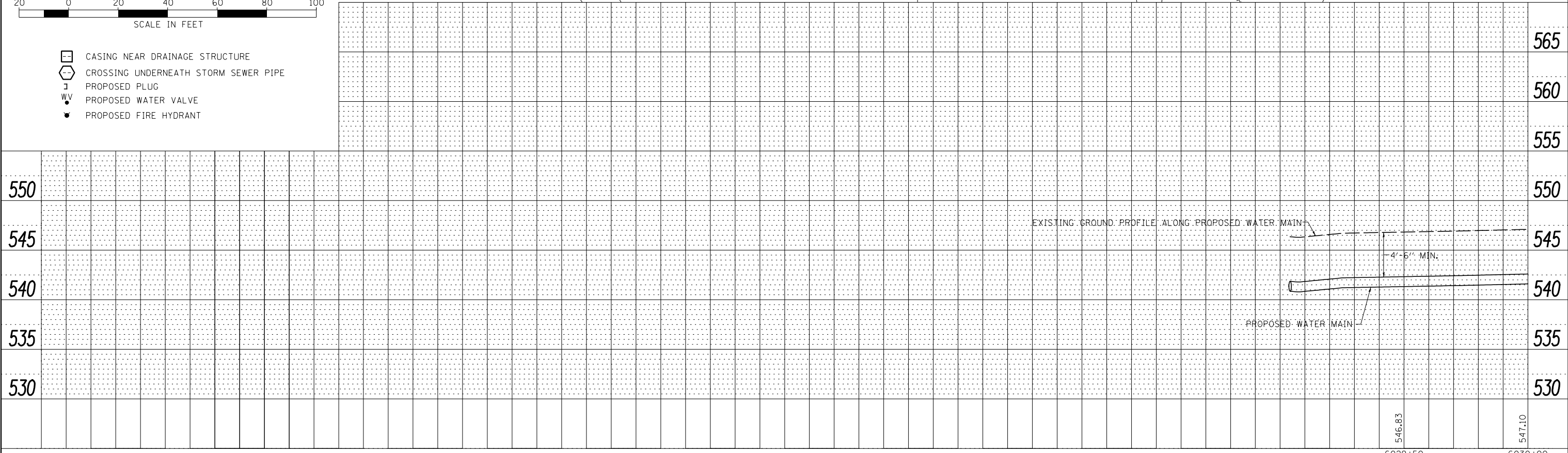
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	(110)R, BR & BR-1	GRUNDY	644	427
CONTRACT NO. 66B83				
ILLINOIS FED. AID PROJECT				

PLAN	SURVEYED	DATE
	PLOTTED	BY
	GRADES CHECKED	
	STRUCTURE NOTED	
	NO. _____	

PROFILE	SURVEYED	DATE
	PLOTTED	BY
	GRADES CHECKED	
	STRUCTURE NOTED	
	NO. _____	



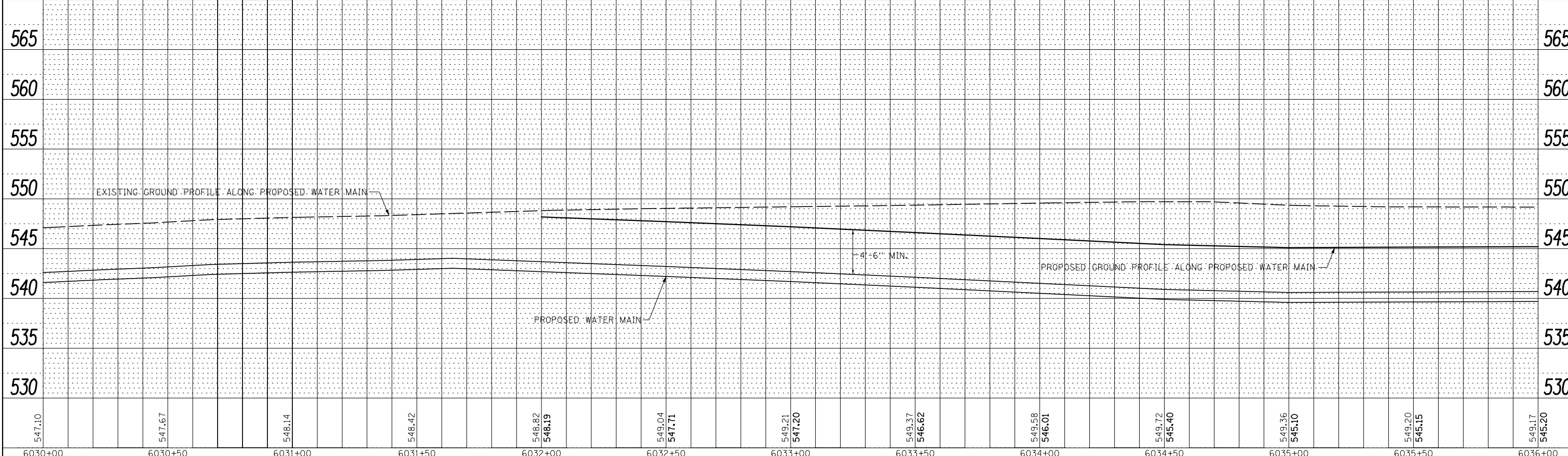
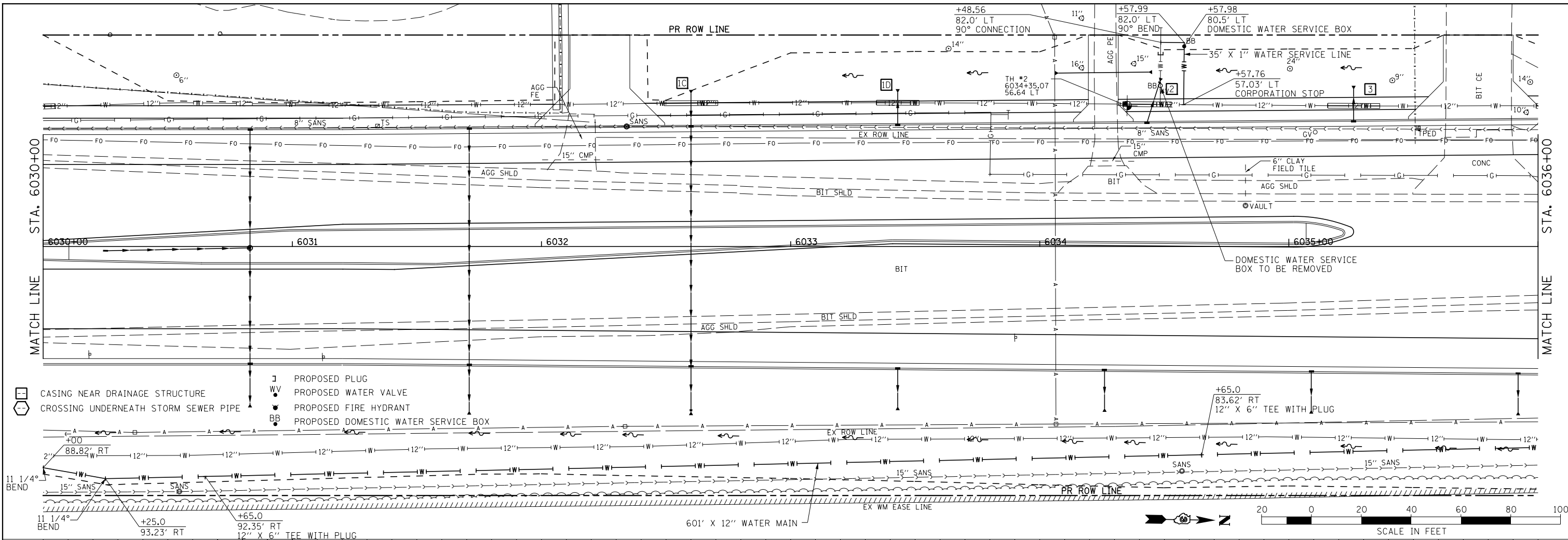
- CASING NEAR DRAINAGE STRUCTURE
- CROSSING UNDERNEATH STORM SEWER PIPE
- PROPOSED PLUG
- PROPOSED WATER VALVE
- PROPOSED FIRE HYDRANT



FILE NAME = D366883-SHT-WATER-6024-6030.DGN	USER NAME = ...	DESIGNED - PM	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL. RTE. 47 WATER MAIN PLAN & PROFILE			F.A.P. RTE. 326	SECTION (110)R, BR & BR-1	COUNTY GRUNDY	TOTAL SHEETS 644	SHEET NO. 428
	PLOT SCALE = 1"=20'	CHECKED - JKC	REVISED -		SCALE: H=20 V=5	SHEET 7	OF 27 SHEETS	STA. 6024+00	TO STA. 6030+00	CONTRACT NO. 66B83		
	PLOT DATE = 12/12	DATE - 12/12	REVISED -							ILLINOIS FED. AID PROJECT		
										6029+50	6030+00	

PLAN	SURVEYED	DATE
	PLOTTED	BY
	ALIGNED	
	CHECKED	
	FILED	
	NO.	

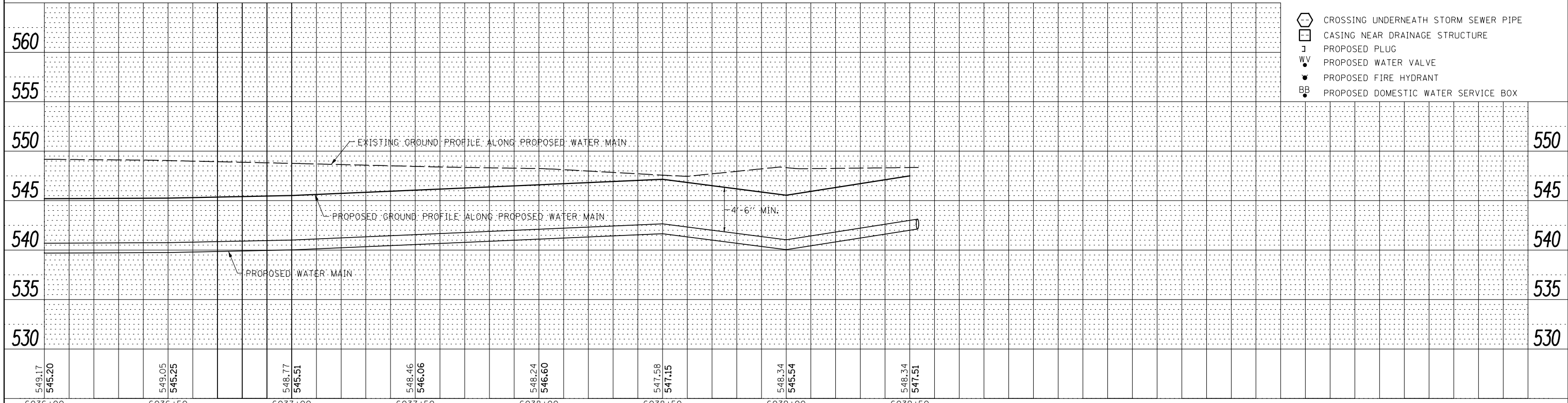
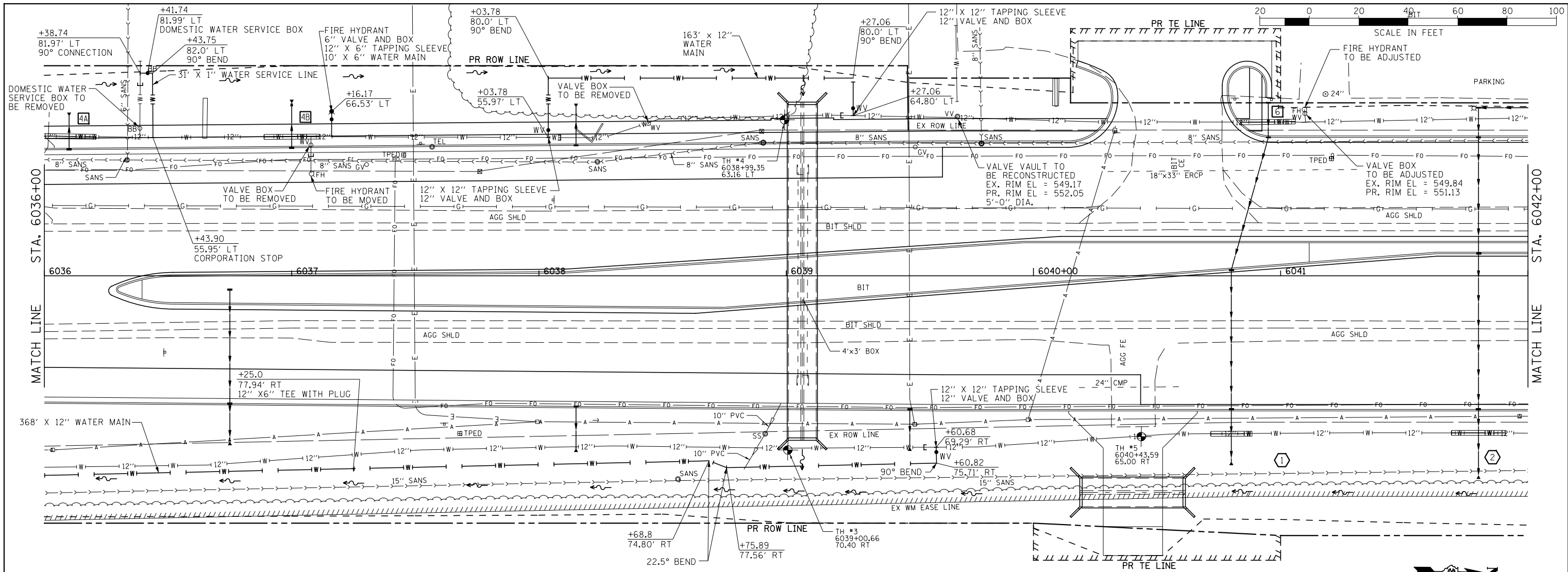
PROFILE	SURVEYED	DATE
	PLOTTED	BY
	GRADES	
	CHECKED	
	STRUCTURE	
	NOTATIONS	
	CHKD	
	NO.	



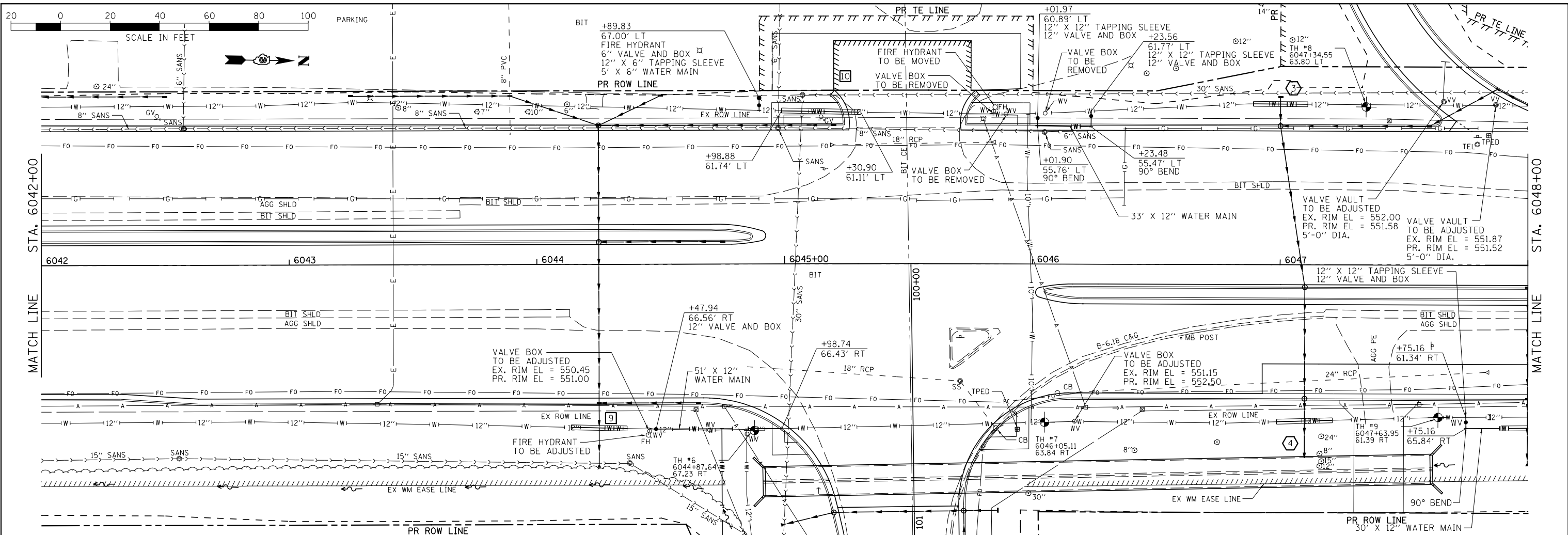
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PLOT SCALE = 1"=20'	CHECKED - JKC	REVISD -	SCALE: H=20 V=5			SHEET 8 OF 27 SHEETS	STA. 6030+00 TO STA. 6036+00				
PLOT DATE = 12/12	DATE - 12/12	REVISD -									

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

PROFILE	SURVEYED	DATE
	PLOTTED	BY
	GRADES	CHECKED
	STRUCTURE	NOTATIONS
	NO.	CHPO



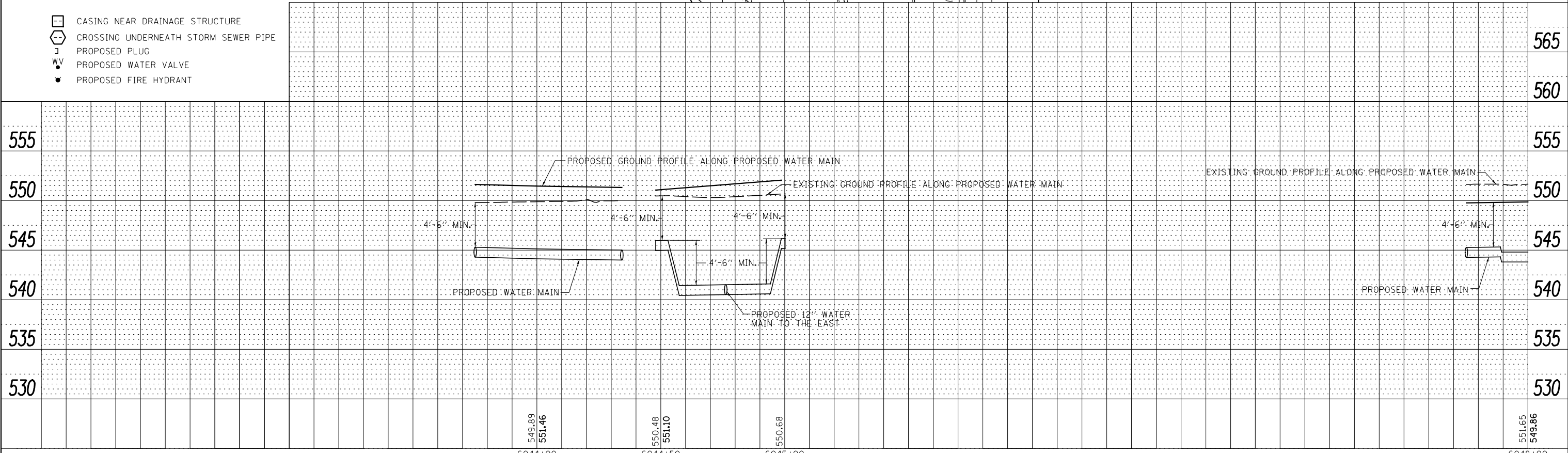
FILE NAME = D366883-SHT-WATER-6036-6042.DGN	USER NAME = ...	DESIGNED - PM	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL. RTE. 47 WATER MAIN PLAN & PROFILE	F.A.P. RTE. 326	SECTION (110)R, BR & BR-1	COUNTY GRUNDY	TOTAL SHEETS 644	SHEET NO. 430	
PLOT SCALE = 1"=20'	CHECKED - JKC	REVISED -	SCALE: H=20 V=5			SHEET 9 OF 27 SHEETS	STA. 6036+00 TO STA. 6042+00	CONTRACT NO. 66B83		ILLINOIS FED. AID PROJECT	
PLOT DATE = 12/12	DATE - 12/12	REVISED -									



PLAN	SURVEYED	DATE
	PLOTTED	BY
	NOTED	
	CHECKED	
	FILED	
	NO.	

PROFILE	SURVEYED	DATE
	PLOTTED	BY
	NOTED	
	CHECKED	
	FILED	
	NO.	

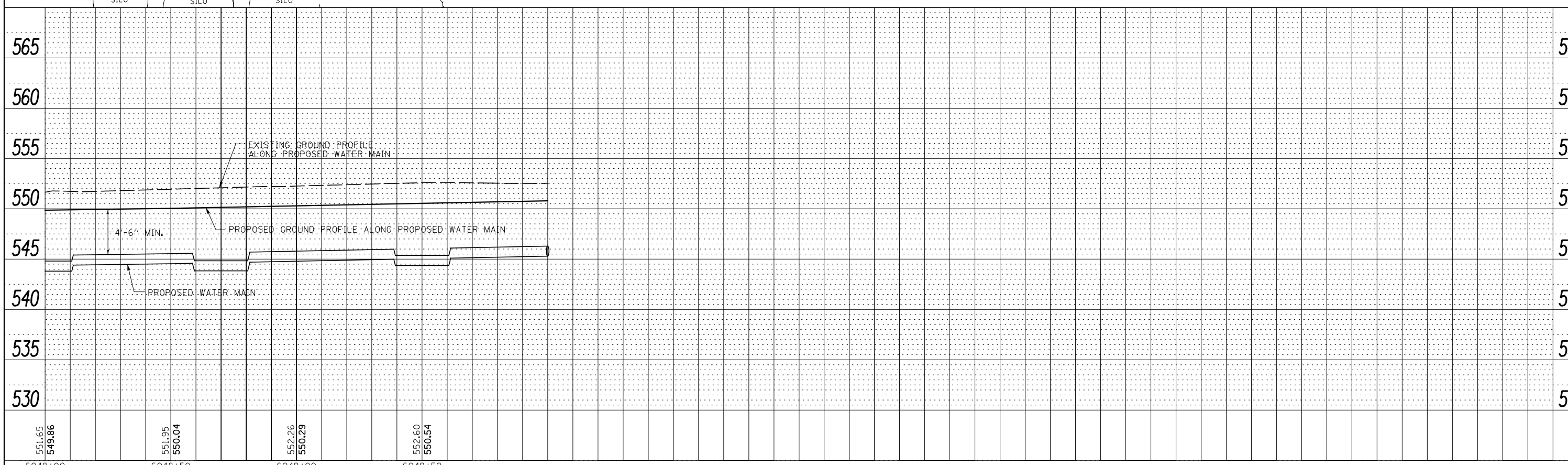
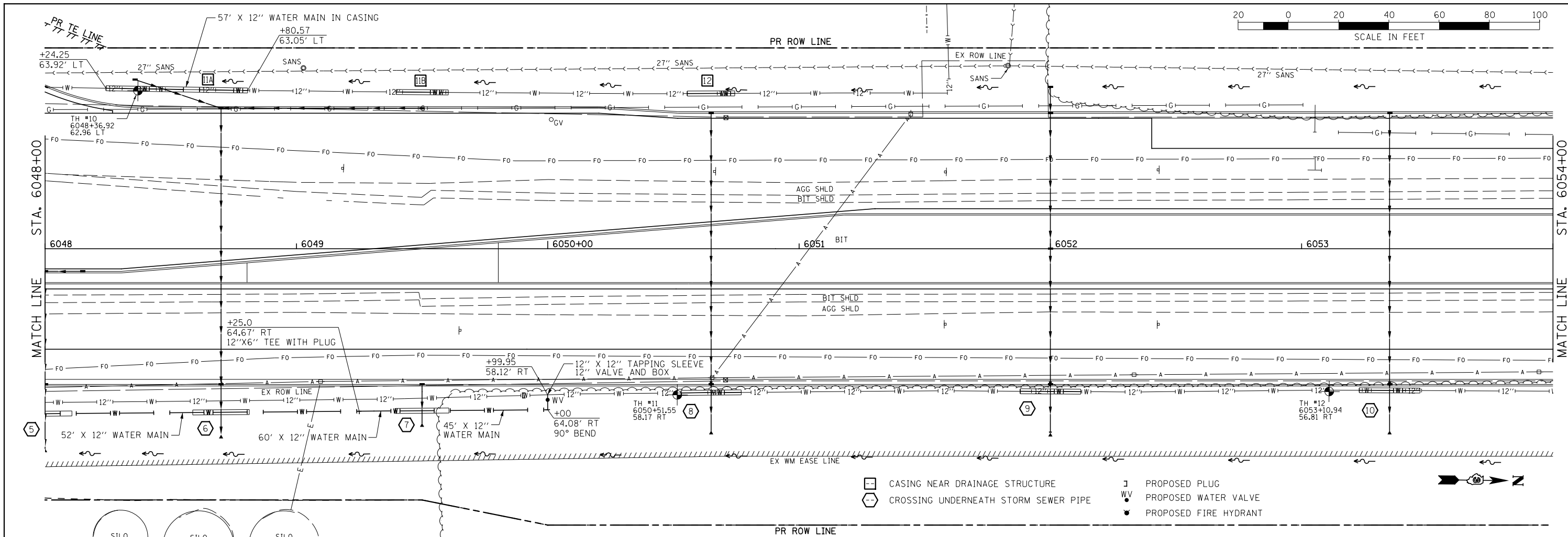
- CASING NEAR DRAINAGE STRUCTURE
- CROSSING UNDERNEATH STORM SEWER PIPE
- PROPOSED PLUG
- PROPOSED WATER VALVE
- PROPOSED FIRE HYDRANT



FILE NAME =	USER NAME =	DESIGNED -	REVISD -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION		IL. RTE. 47 WATER MAIN PLAN & PROFILE		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
D366883-SHT-WATER-6042-6048.DGN		DRAWN -	REVISD -					326	(110)R, BR & BR-1	GRUNDY	644	431
PLOT SCALE = 1"=20'		CHECKED -	REVISD -					CONTRACT NO. 66883				
PLOT DATE = 12/12		DATE -	REVISD -					ILLINOIS FED. AID PROJECT				

PLAN	SURVEYED	DATE
	PLOTTED	BY
	ALIGNED	
	CHECKED	
	FILE NAME	
NOTE BOOK NO.		

PROFILE	SURVEYED	DATE
	PLOTTED	BY
	GRADES CHECKED	
	STRUCTURE NOTATIONS CHECKED	
NOTE BOOK NO.		



FILE NAME = D366883-SHT-WATER-6048-6054.DGN	USER NAME = ...	DESIGNED - PM	REVISED -
PLOT SCALE = 1"=20'	CHECKED - JKC	DRAWN - NV	REVISED -
PLOT DATE = 12/12	DATE = 12/12		REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

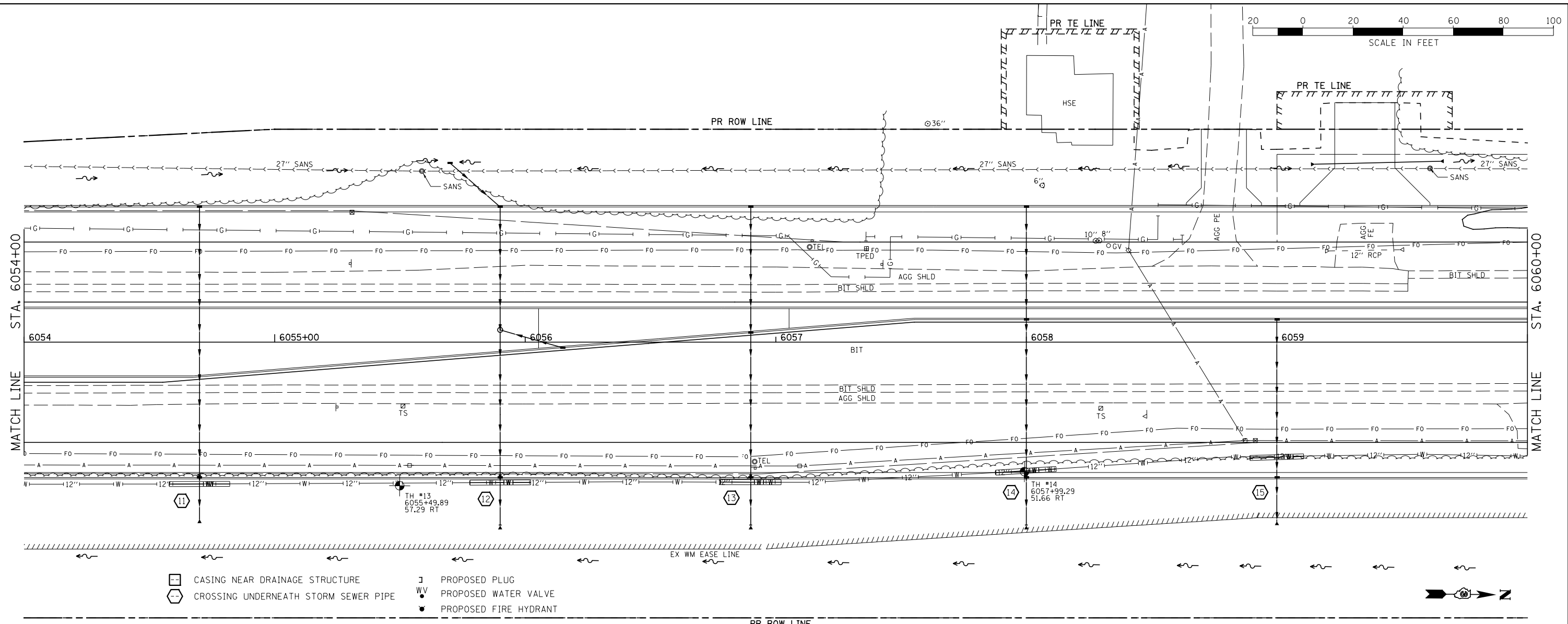
IL. RTE. 47 WATER MAIN PLAN & PROFILE

SCALE: H=20 V=5 SHEET 11 OF 27 SHEETS STA. 6048+00 TO STA. 6054+00

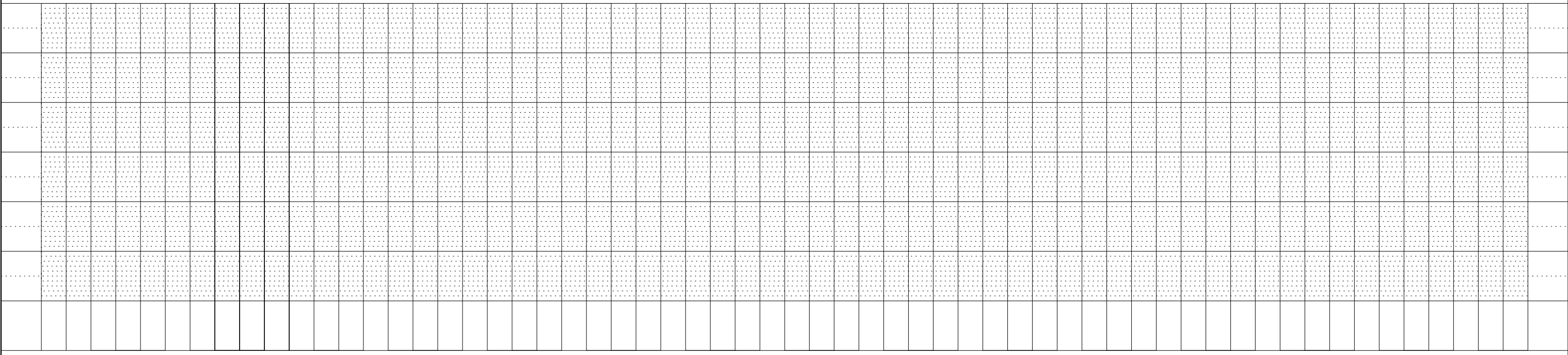
F.A.P. RTE. 326	SECTION (110)R, BR & BR-1	COUNTY GRUNDY	TOTAL SHEETS 644	SHEET NO. 432
CONTRACT NO. 66883			ILLINOIS FED. AID PROJECT	

DATE	
BY	
PLAN	SURVEYED
	PLOTTED
	NOTE BOOK
	NO.
	ALIGNED
	CHECKED
	FILE NAME
	NO.

DATE	
BY	
PROFILE	SURVEYED
	PLOTTED
	GRADES CHECKED
	NOTE BOOK
	NO.
	STRUCTURE
	NOTATIS CHECKED



- CASING NEAR DRAINAGE STRUCTURE
- CROSSING UNDERNEATH STORM SEWER PIPE
- PROPOSED PLUG
- PROPOSED WATER VALVE
- PROPOSED FIRE HYDRANT



FILE NAME = D366883-SHT-WATER-6054-6060.DGN

USER NAME = ...	DESIGNED - PM	REVISED -
PLOT SCALE = 1"=20'	DRAWN - NV	REVISED -
PLOT DATE = 12/12	CHECKED - JKC	REVISED -
	DATE - 12/12	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

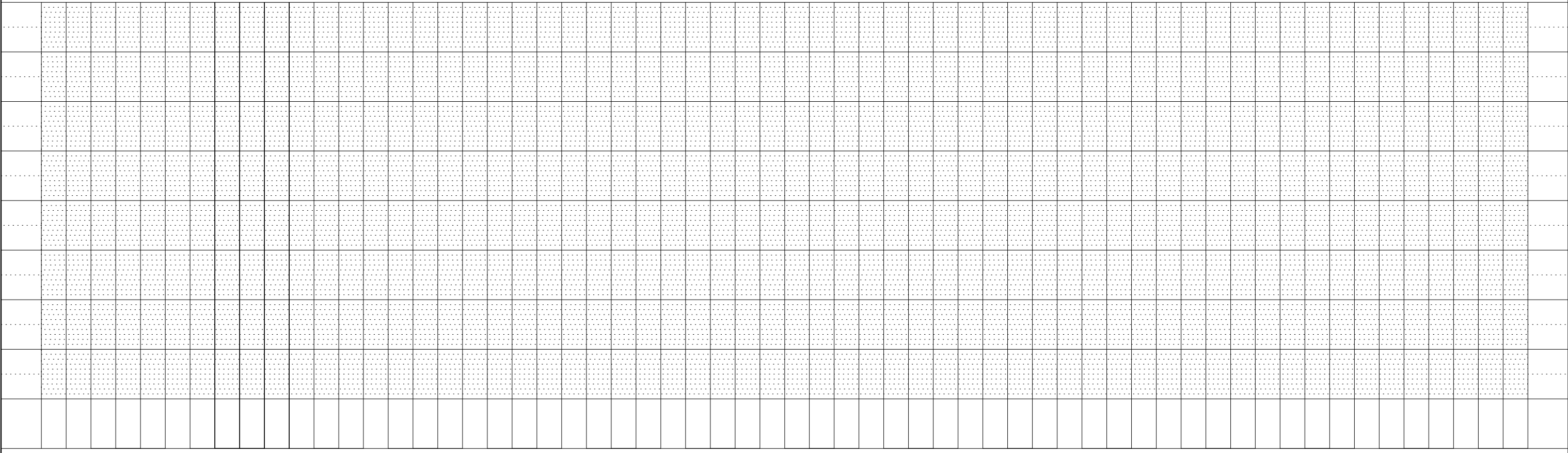
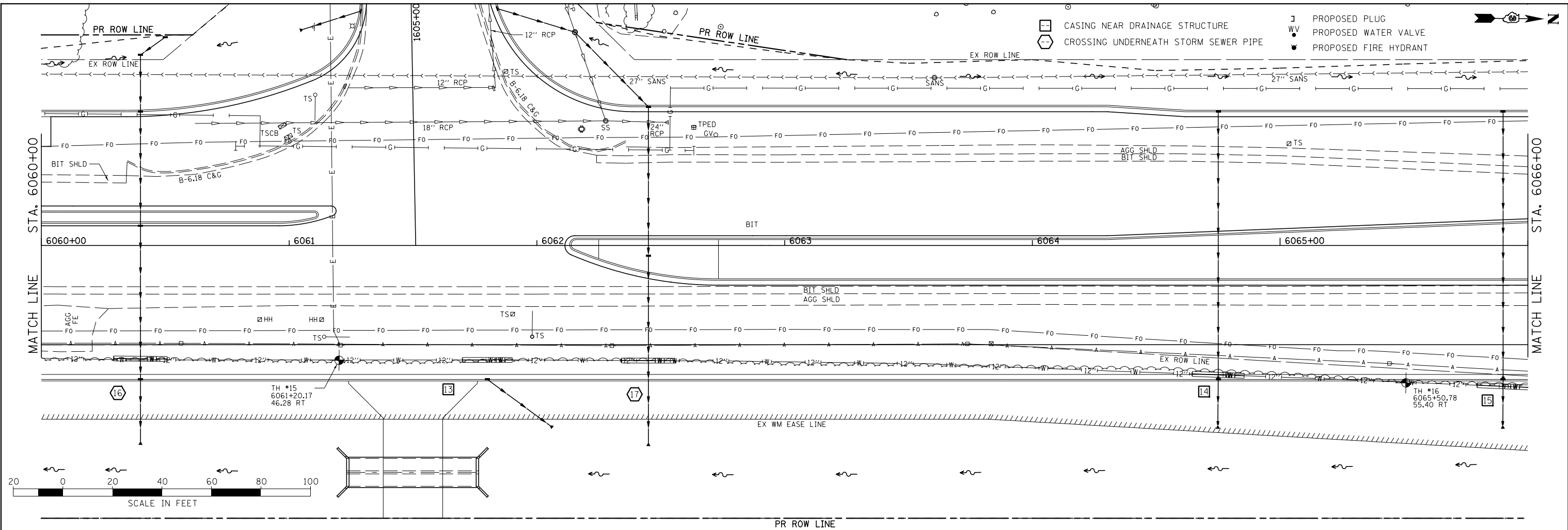
IL. RTE. 47 WATER MAIN PLAN & PROFILE

SCALE: H=20 V=5 SHEET 12 OF 27 SHEETS STA. 6054+00 TO STA. 6060+00

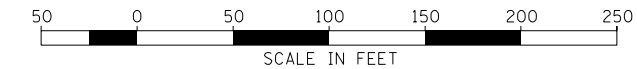
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	(110)R, BR & BR-1	GRUNDY	644	433
CONTRACT NO. 66883				
ILLINOIS FED. AID PROJECT				

PLAN	SURVEYED	DATE
	PLOTTED	
	ALIGNED	
	CHECKED	
	FILED	
	NO.	

PROFILE	SURVEYED	DATE
	PLOTTED	
	GRADES	
	CHECKED	
	STRUCTURE	
	NOTATIS	
	CHKD	

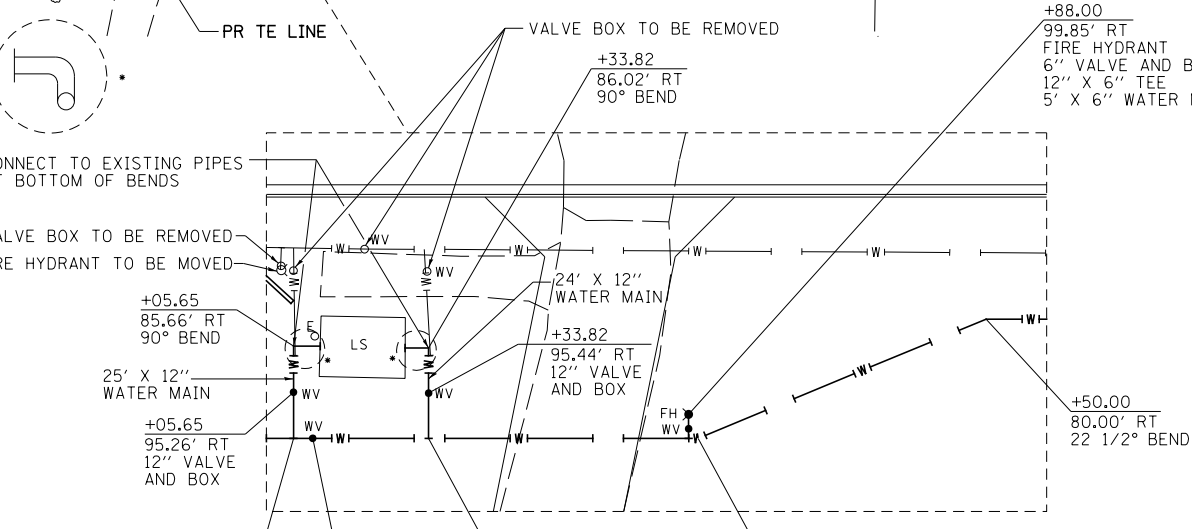
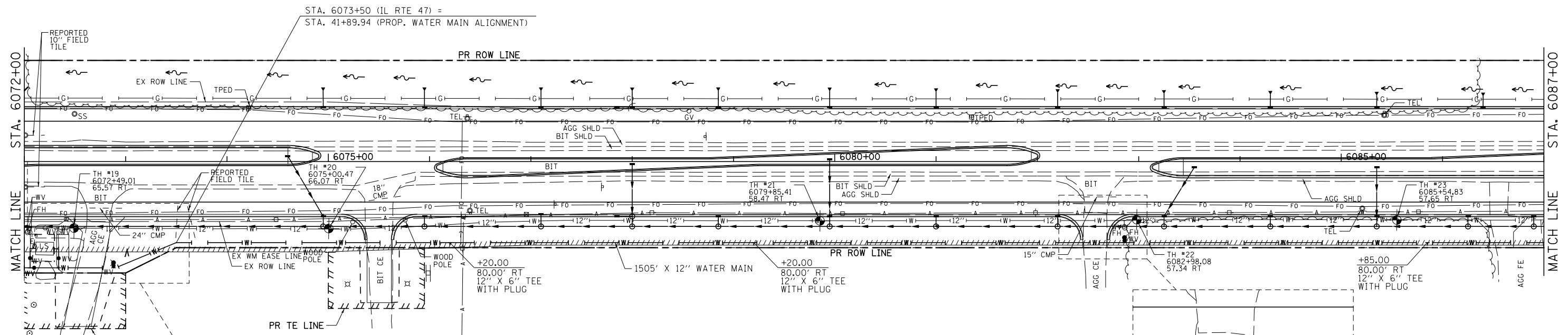


FILE NAME = D366883-SHT-WATER-6060-6066.DGN	USER NAME = ...	DESIGNED - PM	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL. RTE. 47 WATER MAIN PLAN & PROFILE	F.A.P. RTE. 326	SECTION (110)R, BR & BR-1	COUNTY GRUNDY	TOTAL SHEETS 644	SHEET NO. 434	
PLOT SCALE = 1"=20'	CHECKED - JKC	DATE - 12/12	REVISED -			SCALE: H=20 V=5	SHEET 13 OF 27 SHEETS	STA. 6060+00 TO STA. 6066+00	CONTRACT NO. 66B83		ILLINOIS FED. AID PROJECT

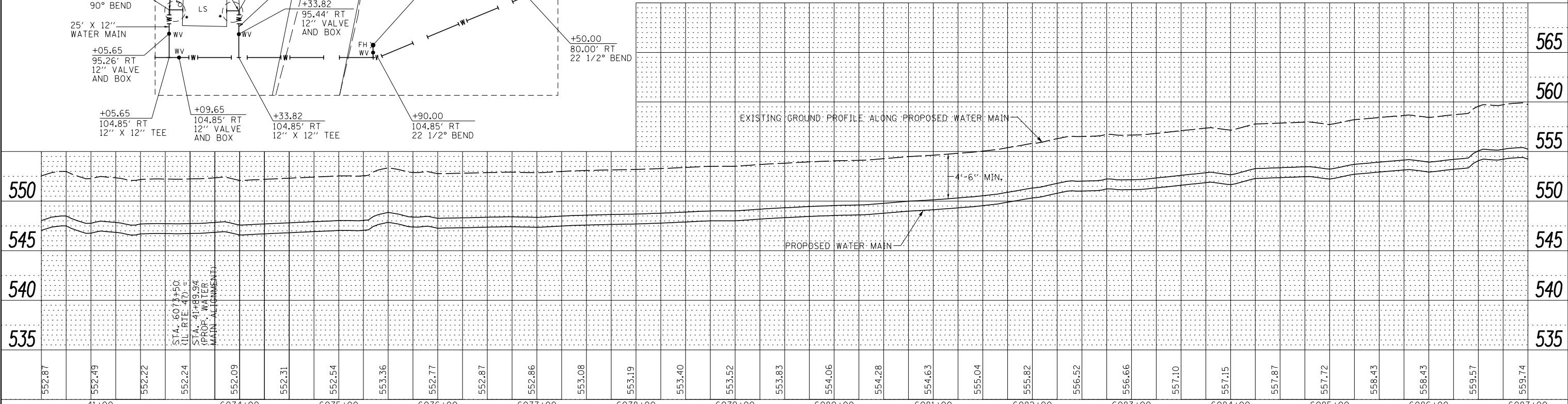


PLAN	SURVEYED	DATE
	PLOTTED	
	ALIGNED	
	CHECKED	
	NOTED	
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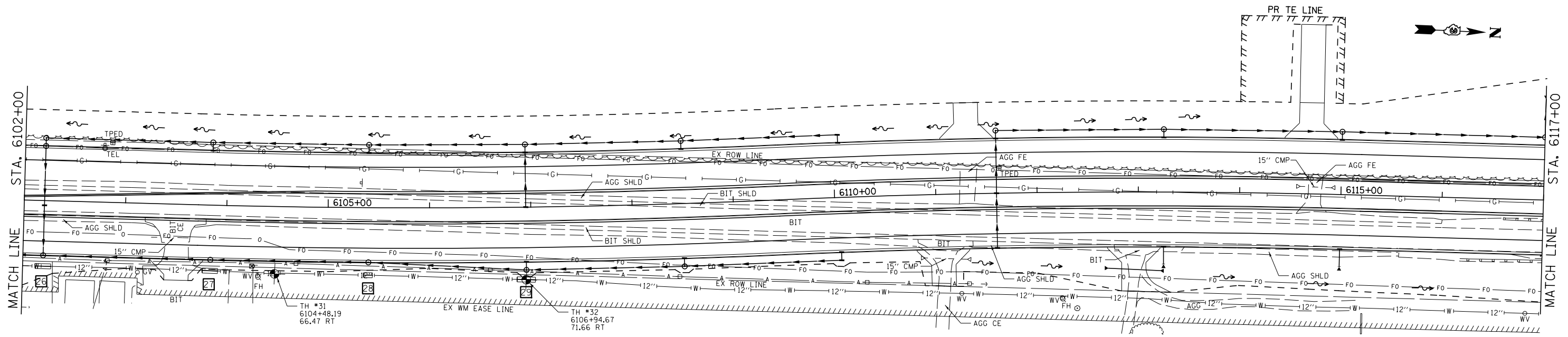
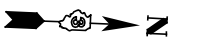
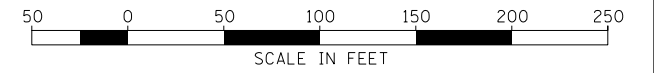
PROFILE	SURVEYED	DATE
	PLOTTED	
	GRADES	
	CHECKED	
	STRUCTURE	
	NOTED	
	NO.	



- CASING NEAR DRAINAGE STRUCTURE
- CROSSING UNDERNEATH STORM SEWER PIPE
- PROPOSED PLUG
- PROPOSED WATER VALVE
- PROPOSED FIRE HYDRANT



FILE NAME =	USER NAME =	DESIGNED -	REVISOR -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL. RTE. 47 WATER MAIN PLAN & PROFILE	F.A.P. RT.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
D366883-SHT-WATER-6072-6087.DGN		DRAWN -	REVISOR -			326	(110)R, BR & BR-1	GRUNDY	644	436
PLOT SCALE = 1"=50'		CHECKED -	REVISOR -			CONTRACT NO. 66883				
PLOT DATE = 12/12		DATE -	REVISOR -			ILLINOIS FED. AID PROJECT				

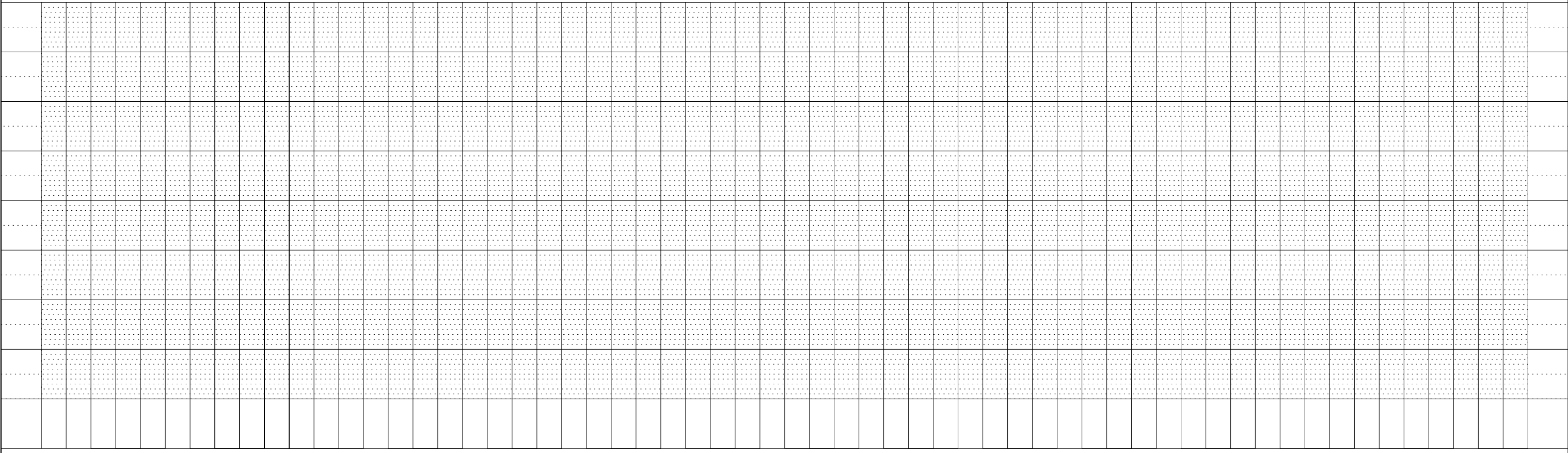


NOTE: PROPOSED ROW LINE AND PROPOSED PE LINE NOT SHOWN FOR CLARITY.

- CASING NEAR DRAINAGE STRUCTURE
- CROSSING UNDERNEATH STORM SEWER PIPE
- PROPOSED PLUG
- PROPOSED WATER VALVE
- PROPOSED FIRE HYDRANT

PLAN	SURVEYED	BY	DATE
	PLOTTED		
	GRADES CHECKED		
	STRUCTURE NOTATIONS CHECKED		
	NO.		

PROFILE	SURVEYED	BY	DATE
	PLOTTED		
	GRADES CHECKED		
	STRUCTURE NOTATIONS CHECKED		
	NO.		

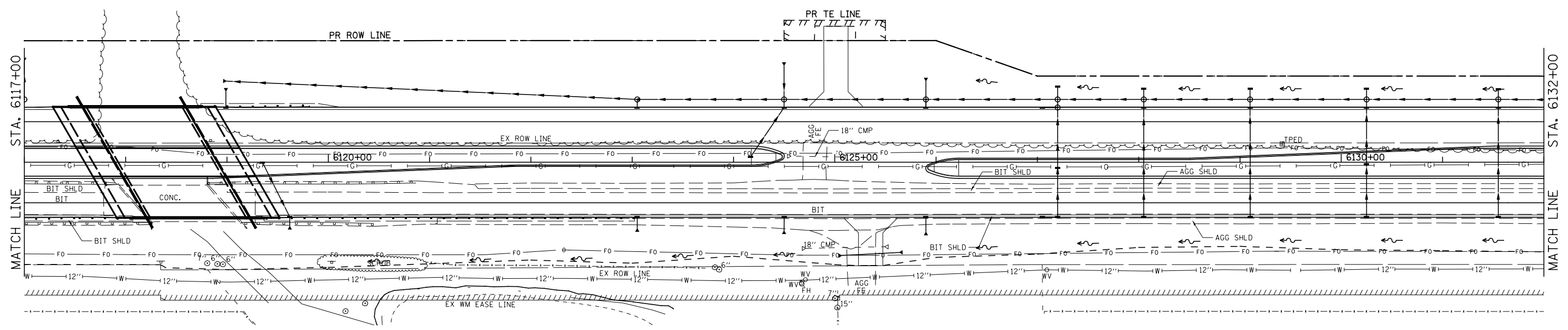


FILE NAME = D366883-SHT-WATER-6102-6117.DGN	USER NAME = ...	DESIGNED - PM	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL. RTE. 47 WATER MAIN PLAN & PROFILE	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
	PLOT SCALE = 1"=50'	DRAWN - NV	REVISED -			326	(110)R, BR & BR-1	GRUNDY	644	438	
	PLOT DATE = 12/12	CHECKED - JKC	REVISED -			CONTRACT NO. 66B83					
		DATE - 12/12	REVISED -			ILLINOIS FED. AID PROJECT					
				SCALE: H=50 V=5		SHEET 17 OF 27 SHEETS		STA. 6102+00 TO STA. 6117+00			

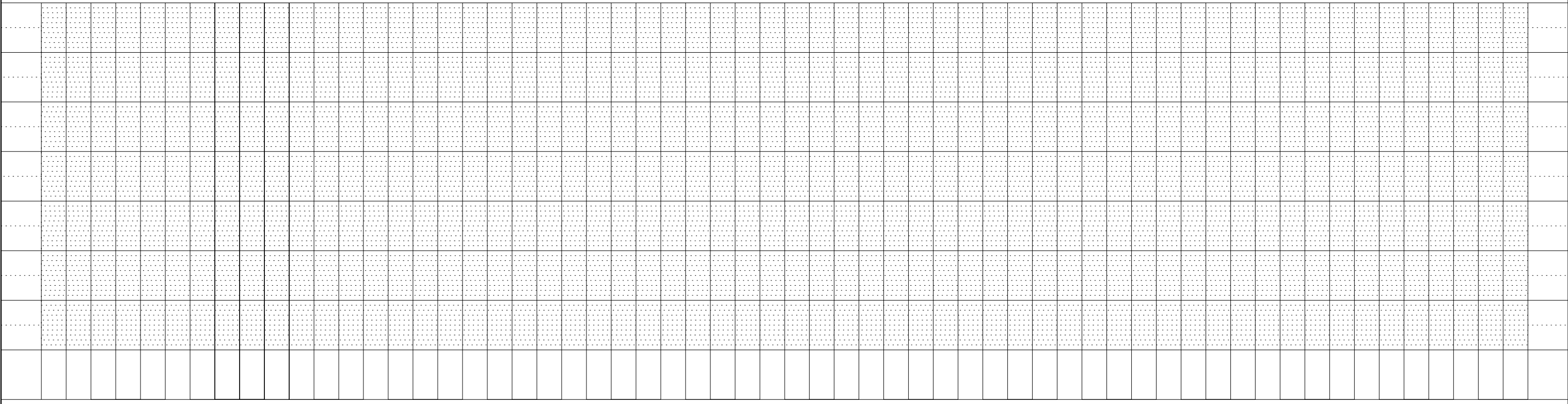


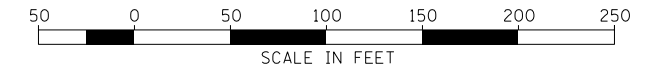
PLAN	SURVEYED	DATE
	PLOTTED	BY
	GRADES CHECKED	
	STRUCTURE NOTATIONS CHECKED	
	NOTE BOOK NO.	
	FILE NAME	

PROFILE	SURVEYED	DATE
	PLOTTED	BY
	GRADES CHECKED	
	STRUCTURE NOTATIONS CHECKED	
	NOTE BOOK NO.	
	FILE NAME	

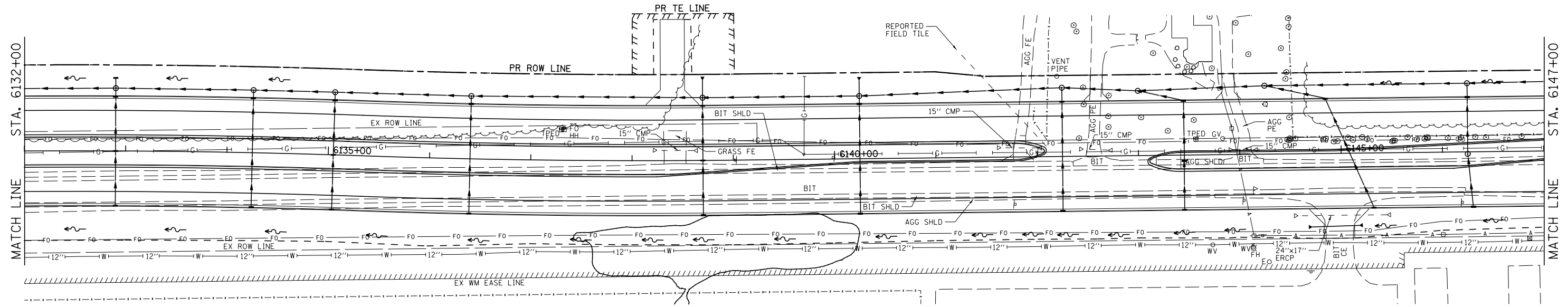


- CASING NEAR DRAINAGE STRUCTURE
- CROSSING UNDERNEATH STORM SEWER PIPE
- PROPOSED PLUG
- PROPOSED WATER VALVE
- PROPOSED FIRE HYDRANT

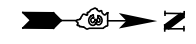




PLAN	SURVEYED	DATE
	PLOTTED	
	ALIGNED	
	CHECKED	
	FILED	
NOTE BOOK NO.	CADD FILE NAME	



- CASING NEAR DRAINAGE STRUCTURE
- CROSSING UNDERNEATH STORM SEWER PIPE
- PROPOSED PLUG
- PROPOSED WATER VALVE
- PROPOSED FIRE HYDRANT



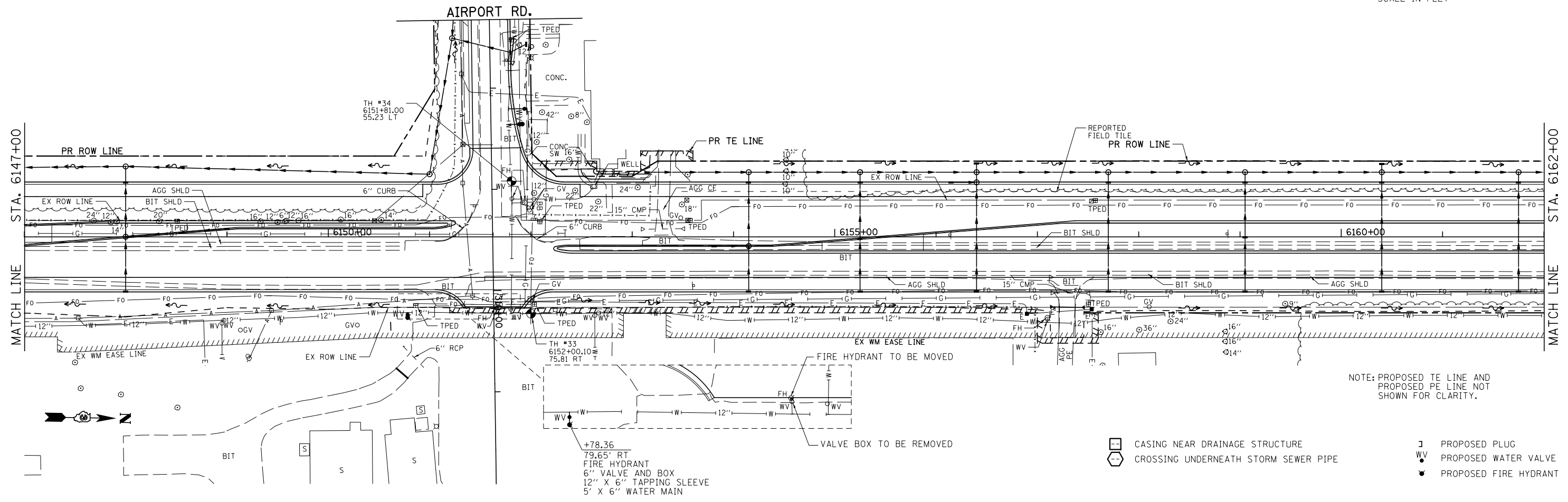
PROFILE	SURVEYED	DATE
	PLOTTED	
	GRADES CHECKED	
	STRUCTURE NOTATIONS CHECKED	
NOTE BOOK NO.		

[Grid area for profile plotting]																			
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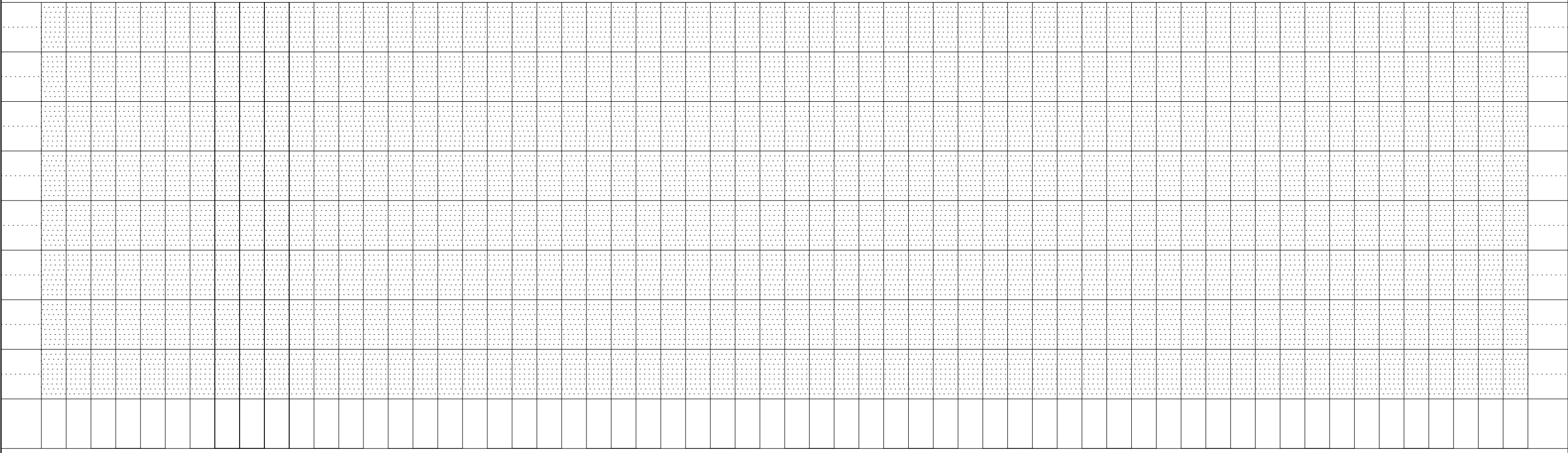
PLAN	SURVEYED	BY	DATE
	PLOTTED		
	GRADES CHECKED		
	STRUCTURE NOTATIONS CHECKED		
NOTE BOOK NO.	FILE NAME		

PROFILE	SURVEYED	BY	DATE
	PLOTTED		
	GRADES CHECKED		
	STRUCTURE NOTATIONS CHECKED		
NOTE BOOK NO.	FILE NAME		

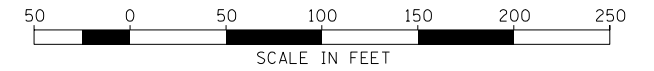


NOTE: PROPOSED TE LINE AND PROPOSED PE LINE NOT SHOWN FOR CLARITY.

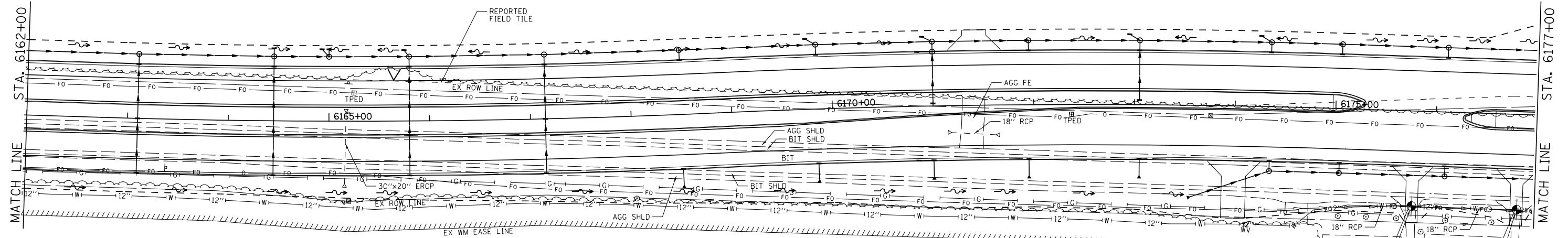
- CASING NEAR DRAINAGE STRUCTURE
- CROSSING UNDERNEATH STORM SEWER PIPE
- PROPOSED PLUG
- PROPOSED WATER VALVE
- PROPOSED FIRE HYDRANT



FILE NAME = D366883-SHT-WATER-6147-6162.DGN	USER NAME = ...	DESIGNED - PM	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL. RTE. 47 WATER MAIN PLAN & PROFILE	F.A.P. RTE. 326	SECTION (110)R, BR & BR-1	COUNTY GRUNDY	TOTAL SHEETS 644	SHEET NO. 441	
PLOT SCALE = 1"=50'	CHECKED - JKC	REVISOR -	REVISOR -			SCALE: H=50 V=5		SHEET 20 OF 27 SHEETS		STA. 6147+00 TO STA. 6162+00	
PLOT DATE = 12/12	DATE - 12/12	REVISOR -	REVISOR -			CONTRACT NO. 66883					
ILLINOIS FED. AID PROJECT											



PLAN	SURVEYED	DATE
	PLOTTED	BY
	GRADES CHECKED	
	STRUCTURE NOTATIONS CHECKED	
	NOTE BOOK NO.	
	FIELD FILE NAME	



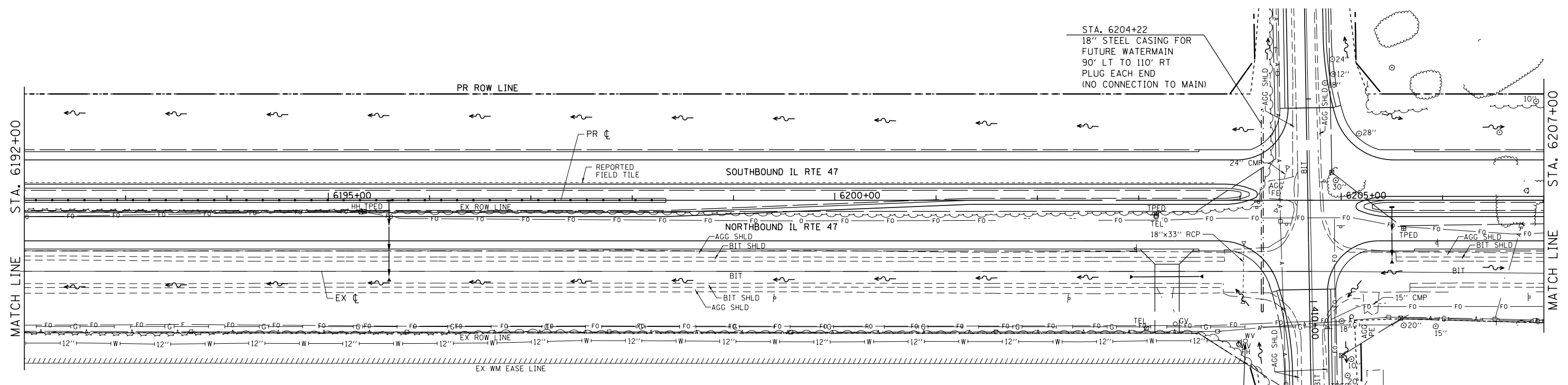
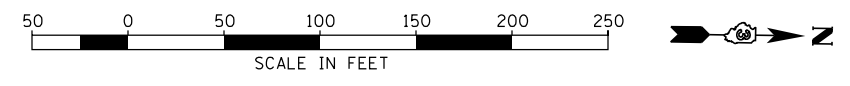
NOTE: PROPOSED ROW LINE AND PROPOSED PE LINE NOT SHOWN FOR CLARITY.

- CASING NEAR DRAINAGE STRUCTURE
- CROSSING UNDERNEATH STORM SEWER PIPE
- PROPOSED PLUG
- PROPOSED WATER VALVE
- PROPOSED FIRE HYDRANT



PROFILE	SURVEYED	DATE
	PLOTTED	BY
	GRADES CHECKED	
	STRUCTURE NOTATIONS CHECKED	
	NOTE BOOK NO.	
	FIELD FILE NAME	

[Grid area for profile plotting]																								
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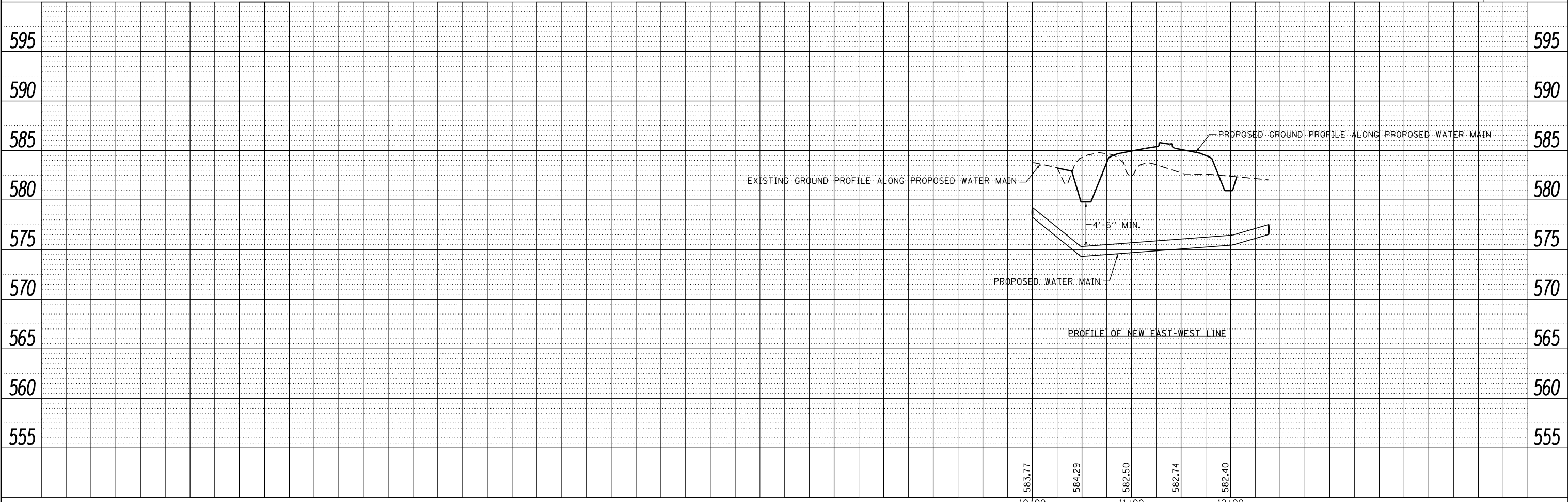
- CASING NEAR DRAINAGE STRUCTURE
- CROSSING UNDERNEATH STORM SEWER PIPE
- PROPOSED PLUG
- PROPOSED WATER VALVE
- PROPOSED FIRE HYDRANT

STA. 6204+22
 18" STEEL CASING FOR
 FUTURE WATERMAIN
 90° LT TO 110° RT
 PLUG EACH END
 (NO CONNECTION TO MAIN)

VALVE BOX TO BE ADJUSTED
 EX. RIM EL = 583.71
 PR. RIM EL = 583.50

PLAN	SURVEYED	DATE
	PLOTTED	BY
	ALIGNED	
	CHECKED	
	FILED	
	NO.	

PROFILE	SURVEYED	DATE
	PLOTTED	BY
	GRADES	
	CHECKED	
	STRUCTURE	
	NOTATION	
	NO.	



FILE NAME =
 D366883-SHT-WATER-6192-6207.DGN

USER NAME = ...
 PLOT SCALE = 1"=50'
 PLOT DATE = 12/12

DESIGNED - PM
 DRAWN - NV
 CHECKED - JKC
 DATE - 12/12

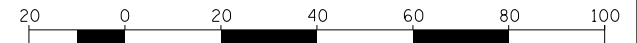
REVISED -
 REVISED -
 REVISED -
 REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

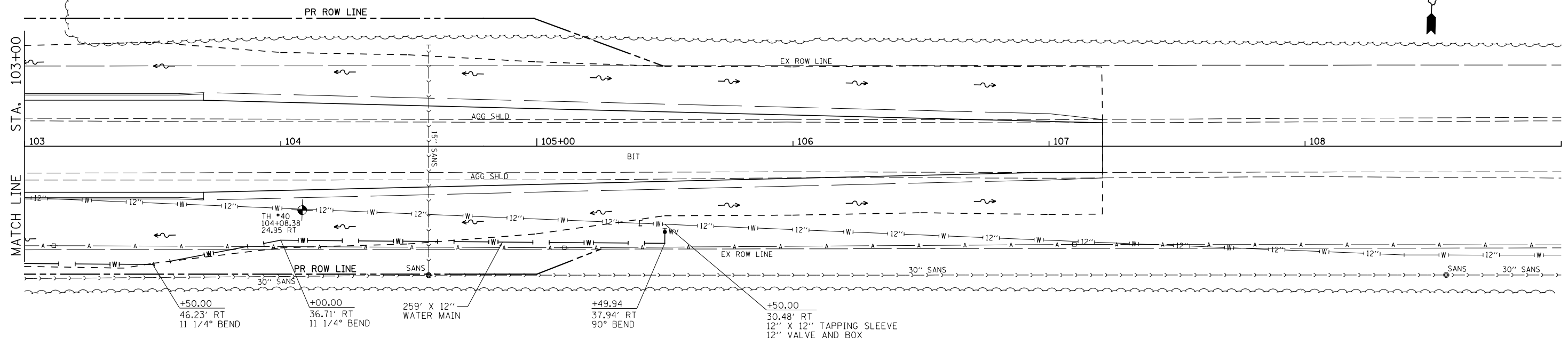
IL. RTE. 47 WATER MAIN PLAN & PROFILE

SCALE: H=50 V=5 SHEET 23 OF 27 SHEETS STA. 6192+00 TO STA. 6207+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	(110)R, BR & BR-1	GRUNDY	644	444
CONTRACT NO. 66B83			ILLINOIS FED. AID PROJECT	

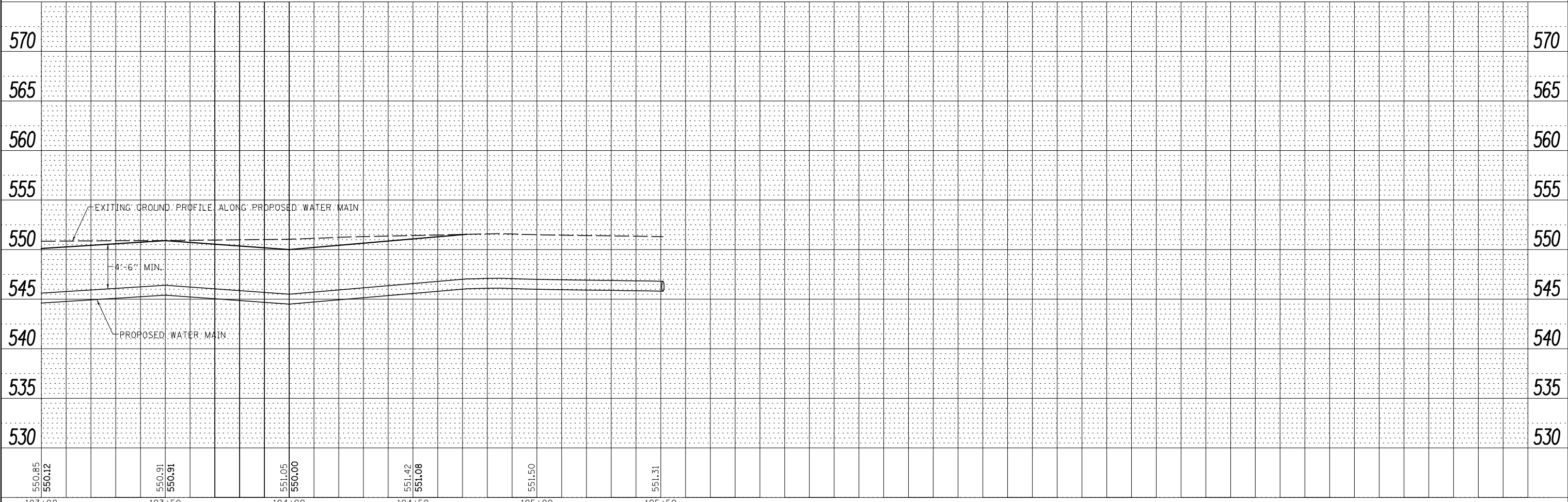


PLAN	SURVEYED	DATE
	PLOTTED	BY
	ALIGNED	
	CHECKED	
	FILED	
	NO.	



- CASING NEAR DRAINAGE STRUCTURE
- CROSSING UNDERNEATH STORM SEWER PIPE
- PROPOSED PLUG
- PROPOSED WATER VALVE
- PROPOSED FIRE HYDRANT

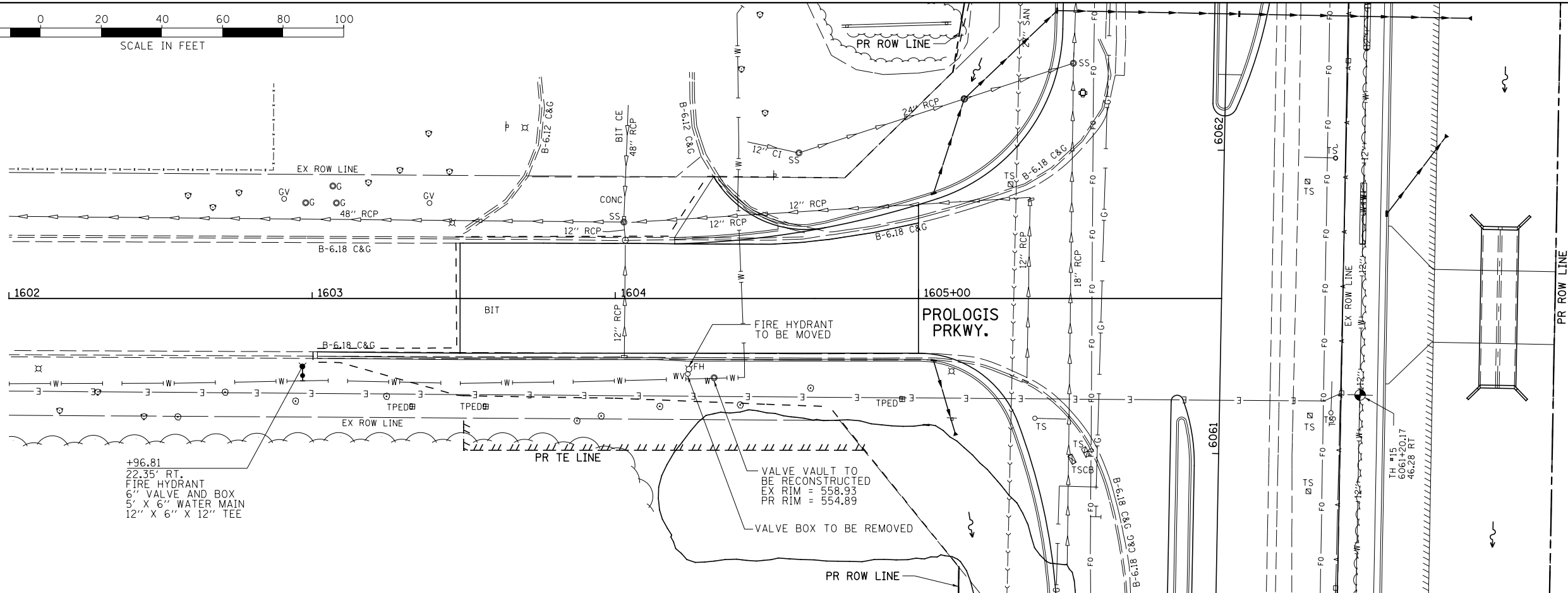
PROFILE	SURVEYED	DATE
	PLOTTED	BY
	GRADES	
	CHECKED	
	STRUCTURE	
	NOTATIONS	
	CHKD	
	NO.	



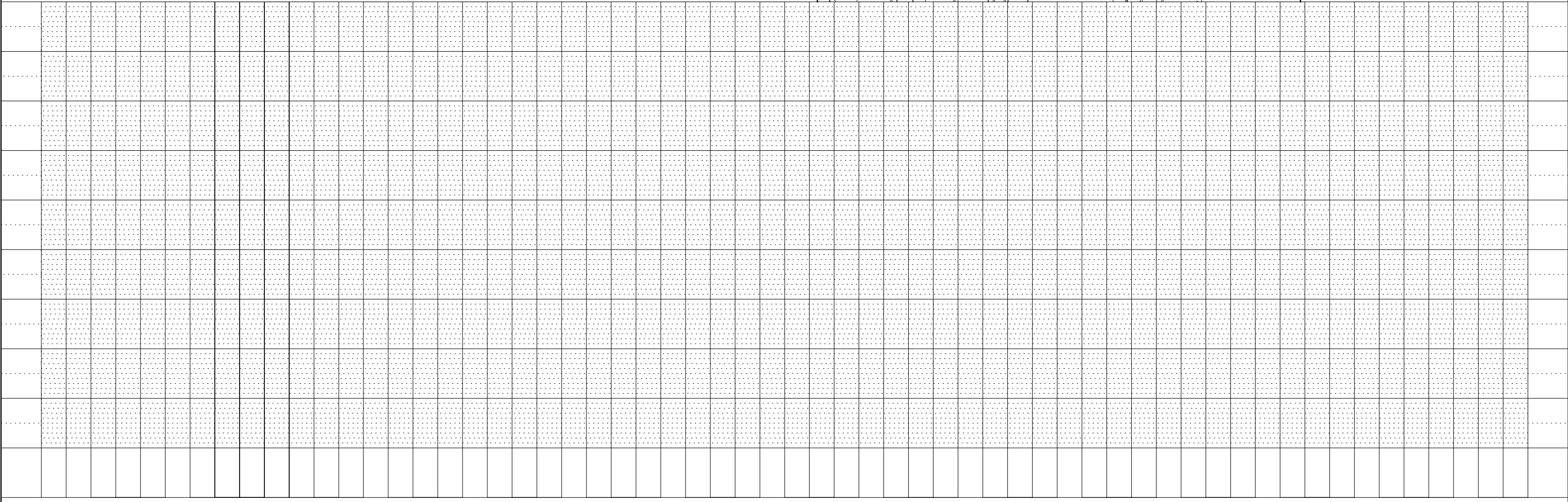
FILE NAME =	USER NAME =	DESIGNED -	REVISOR -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GRANVILLE RD. WATER MAIN PLAN & PROFILE	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
D366883-SHT-WATER-GRANVILLE-103-109.DGN		DRAWN -	REVISOR -			326	(110)R, BR & BR-1	GRUNDY	644	446	
SHT_PLNPROF		CHECKED -	REVISOR -			CONTRACT NO. 66883					
		DATE -	REVISOR -			ILLINOIS FED. AID PROJECT					



PLAN	SURVEYED	DATE
	PLOTTED	
	ALIGNED	
	CHECKED	
	FILED	
NOTE BOOK NO.	CADD FILE NAME	



PROFILE	SURVEYED	DATE
	PLOTTED	
	GRADES CHECKED	
	STRUCTURE NOTATIONS CHECKED	
NOTE BOOK NO.		



FILE NAME = D366883-SHT-WATER-PROLOGIS.DGN
SHT_PLNPROF

USER NAME = ...
PLOT SCALE = 1"=20'
PLOT DATE = 12/12

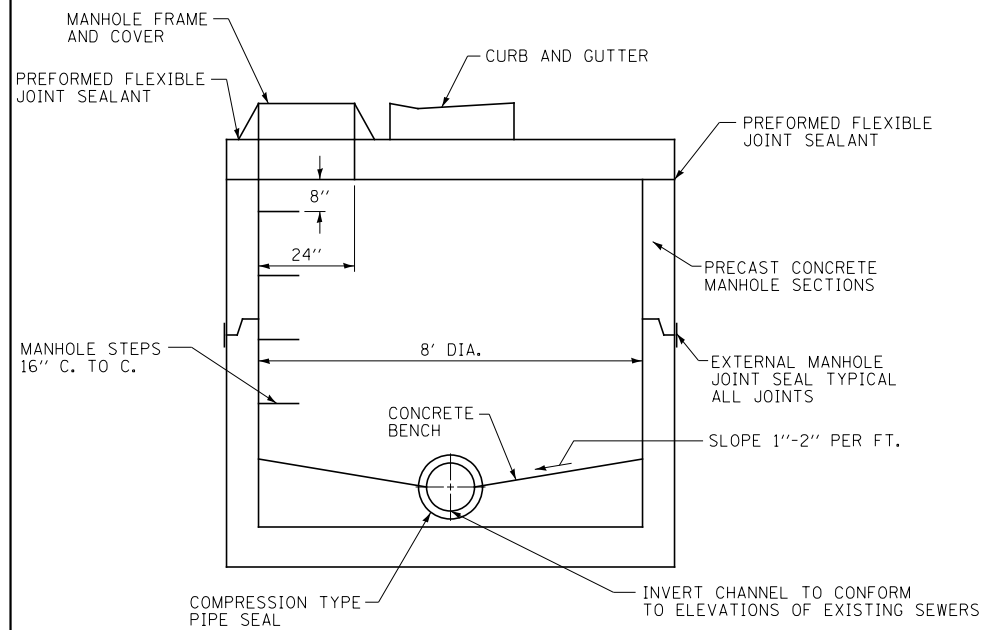
DESIGNED -	REVISED -
DRAWN -	REVISED -
CHECKED -	REVISED -
DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

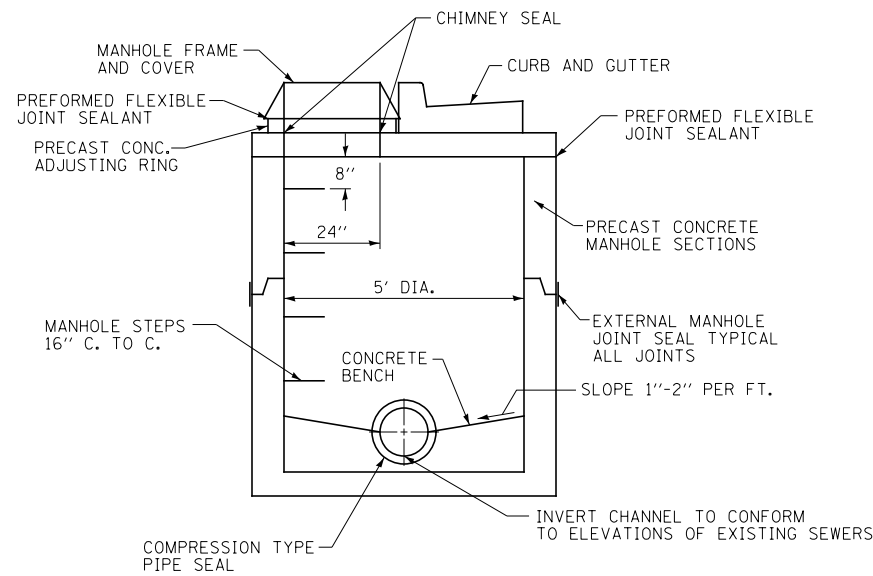
**PROLOGIS PRKWKY.
WATER MAIN PLAN & PROFILE**

SCALE: H=20 V=5 SHEET 26 OF 27 SHEETS STA.1602+00 TO STA.1606+00

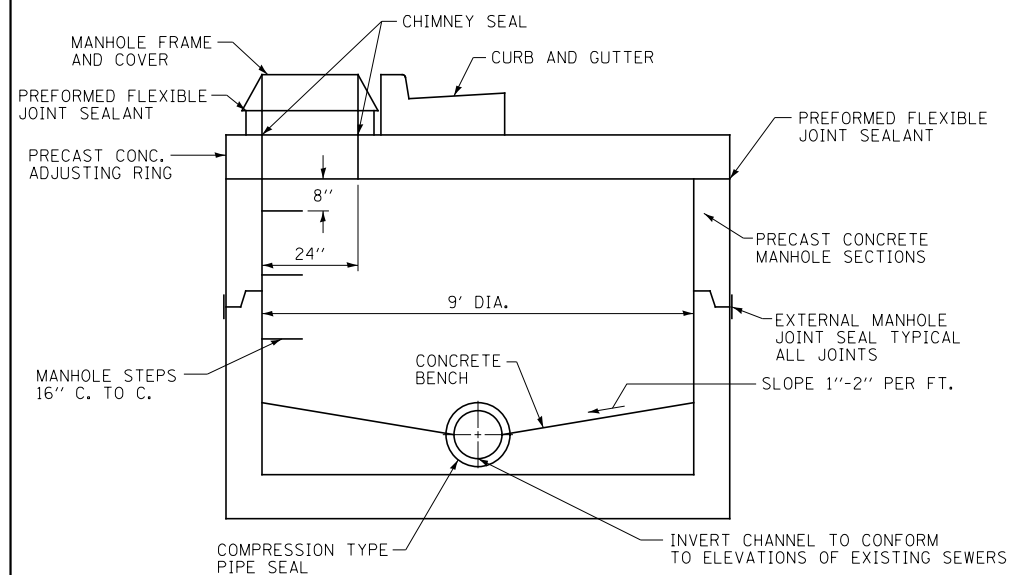
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	(110)R, BR & BR-1	GRUNDY	644	447
				CONTRACT NO. 66B83
ILLINOIS FED. AID PROJECT				



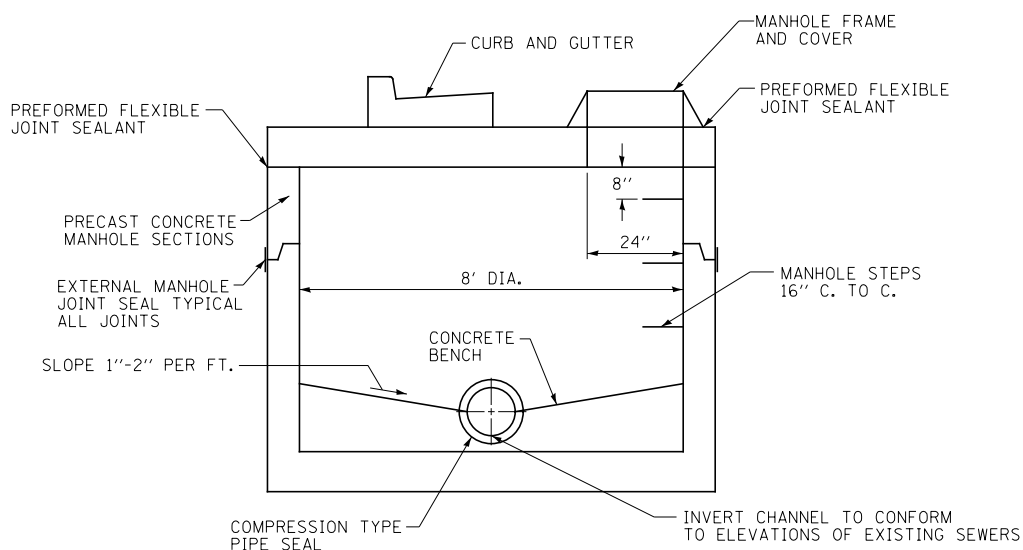
SANITARY MANHOLE #1 DETAIL**
LT STA 6032 + 34



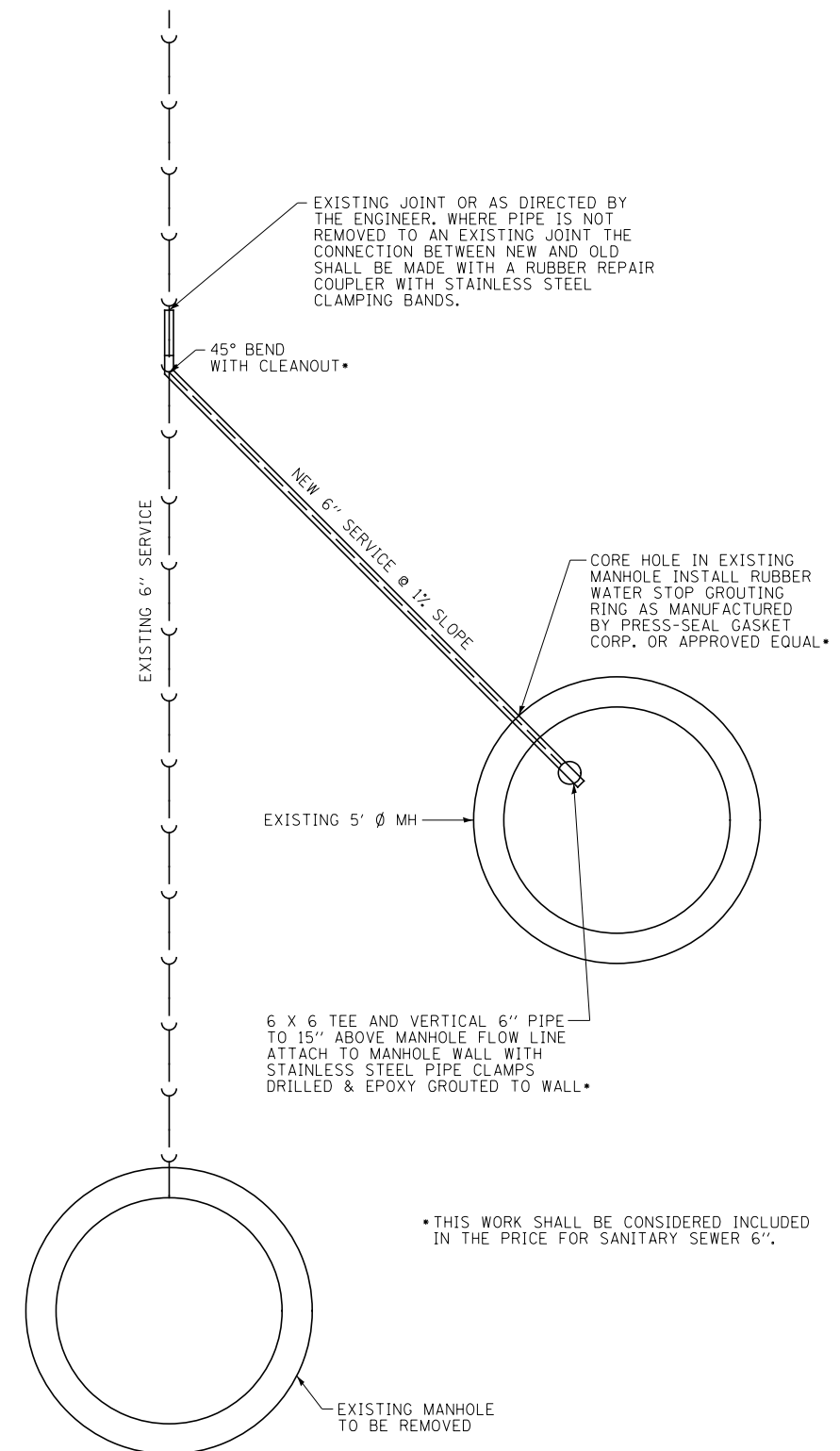
SANITARY MANHOLE #4 DETAIL**
LT STA 6038 + 90.7



SANITARY MANHOLE #5 DETAIL**
LT STA 6039 + 79



SANITARY MANHOLE #6 DETAIL**
LT STA 6042 + 51.6

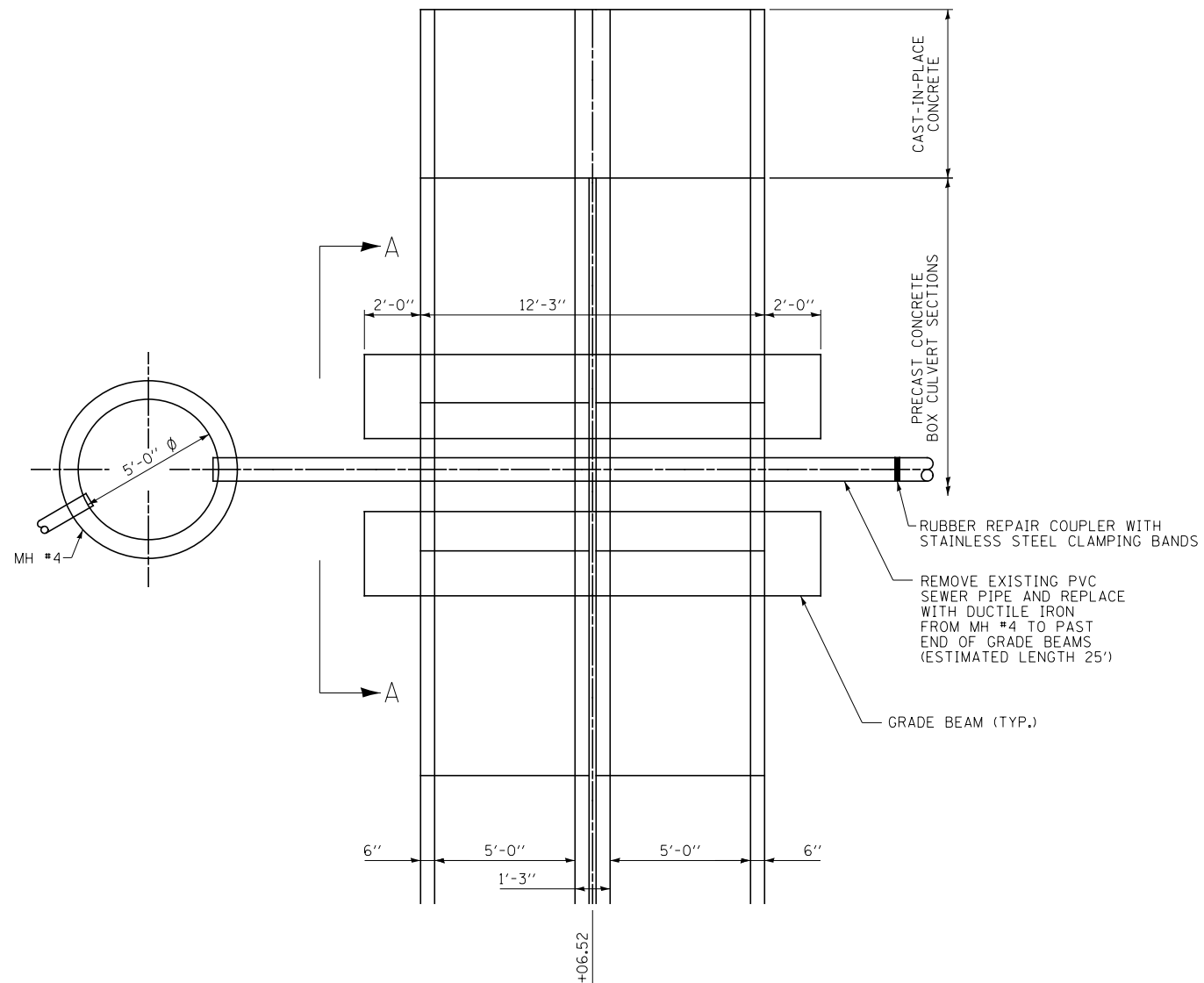


SANITARY MANHOLE #7 & #8 DETAIL
LT STA 6045 + 07.4

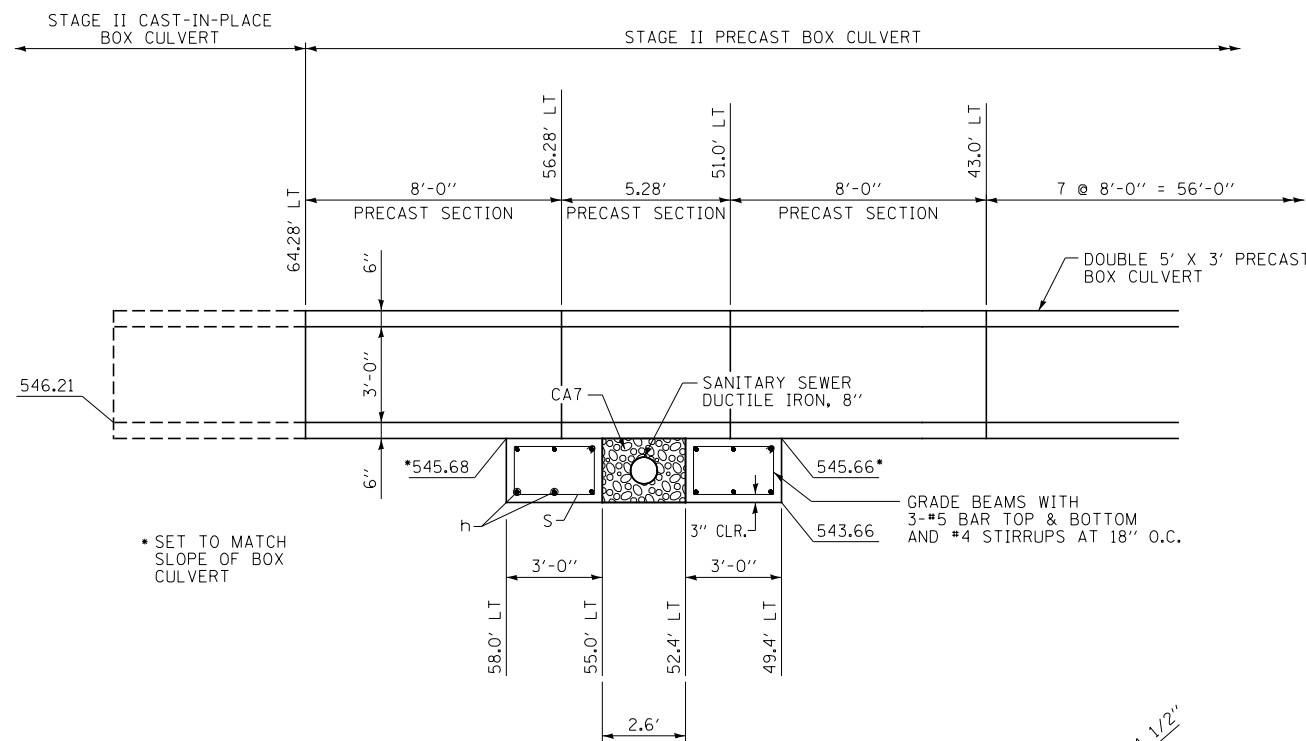
** FOR ADDITIONAL INFORMATION SEE
 SANITARY SEWER SCHEDULE.
 MANHOLE SHALL BE CENTERED OVER
 EXISTING SEWER LINES.
 BOTTOM SLABS OF MANHOLES SHALL BE
 CAST WITH FIRST SECTION OF MANHOLE.

SANITARY SEWER DETAILS PREPARED BY
 CITY OF MORRIS ENGINEERING CONSULTANT.

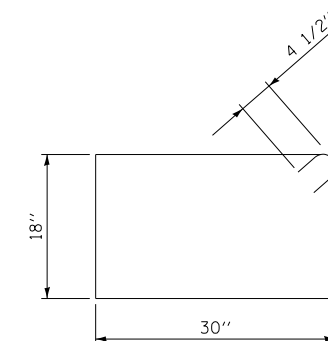
FILE NAME = D366B83-SHT-SAN-DETAILS.DGN	USER NAME = ...	DESIGNED - JKC	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL. RTE. 47 SANITARY SEWER DETAILS		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
SHT.PLAN	PLOT SCALE = 1"=2'	CHECKED - JKC	REVISED -				326	(110)R, BR & BR-1	GRUNDY	644	449
	PLOT DATE = 11/12	DATE - 11/12	REVISED -				CONTRACT NO. 66B83			ILLINOIS FED. AID PROJECT	
							SCALE: NONE	SHEET 1	OF 2 SHEETS	STA.	TO STA.



**PLAN AT BOX CULVERT CROSSING OF
SANITARY SEWER STA 6039+06.52**



SECTION A-A



BAR S

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h	12	#5	16'-0"	—
s	20	#4	8'-9"	□
Class SI Concrete (Miscellaneous)			Cu. Yd.	6.3
Reinforcement Bars			Pound	320

WORK THIS SHEET WITH PLANS FOR PRECAST BOX CULVERT AT STA 6039+06.52

DESIGN STRESSES
f'c = 3500 psi
fy = 60,000 psi (REINFORCEMENT)

CLASS SI CONCRETE (MISCELLANEOUS) SHALL BE IN ACCORDANCE WITH APPLICABLE PORTIONS OF SECTION 503 AND ARTICLE 1020.04 AND WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER CUBIC YARD AS CLASS SI CONCRETE (MISCELLANEOUS)

FILE NAME = D366B83-SHT-SAN-DETAILS-2.DGN	USER NAME = ...	DESIGNED - JKC	REVISED -
SHT.PLAN	PLOT SCALE = 1"=2'	DRAWN - NV	REVISED -
	PLOT DATE = 11/12	CHECKED - JKC	REVISED -
		DATE - 11/12	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

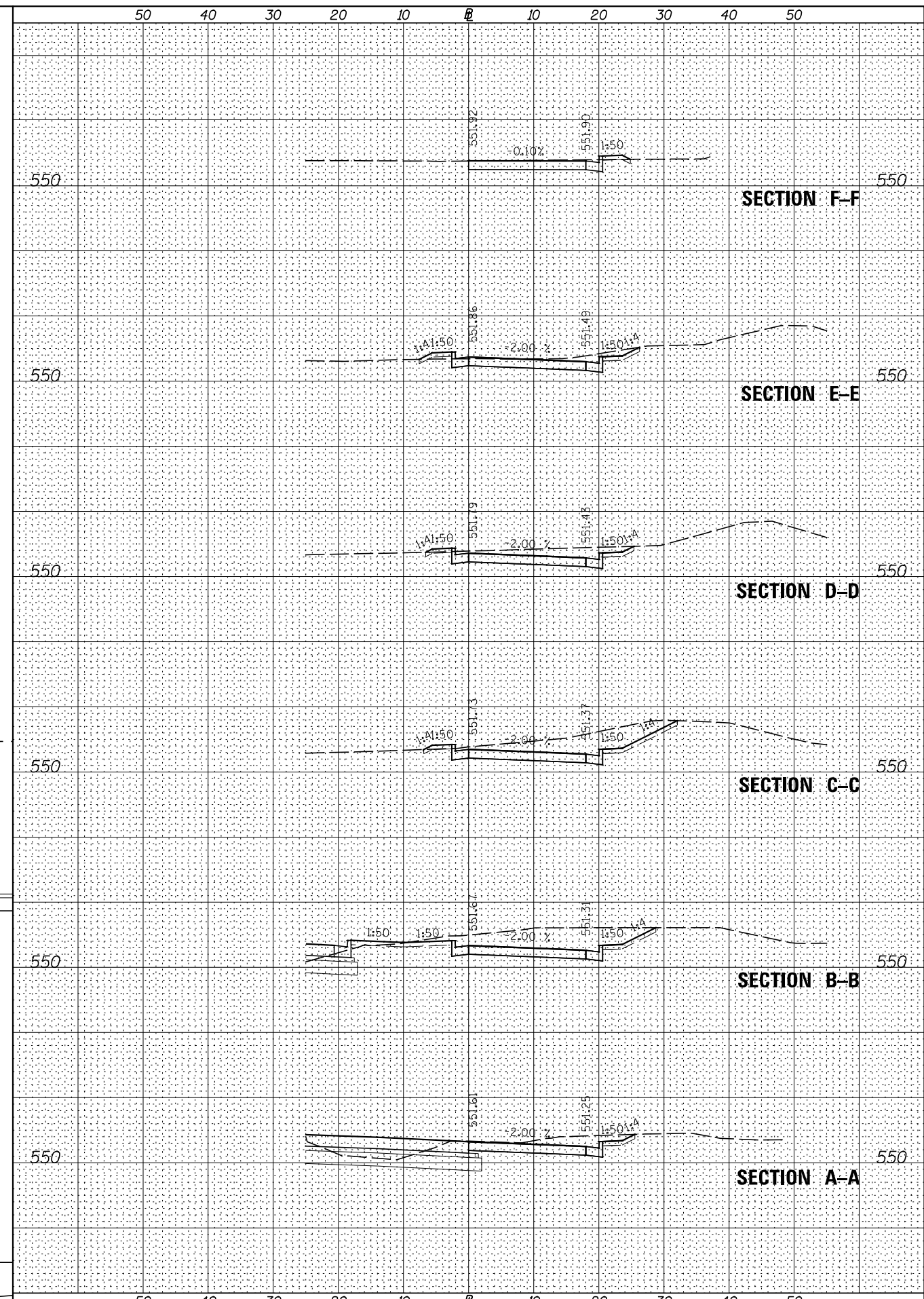
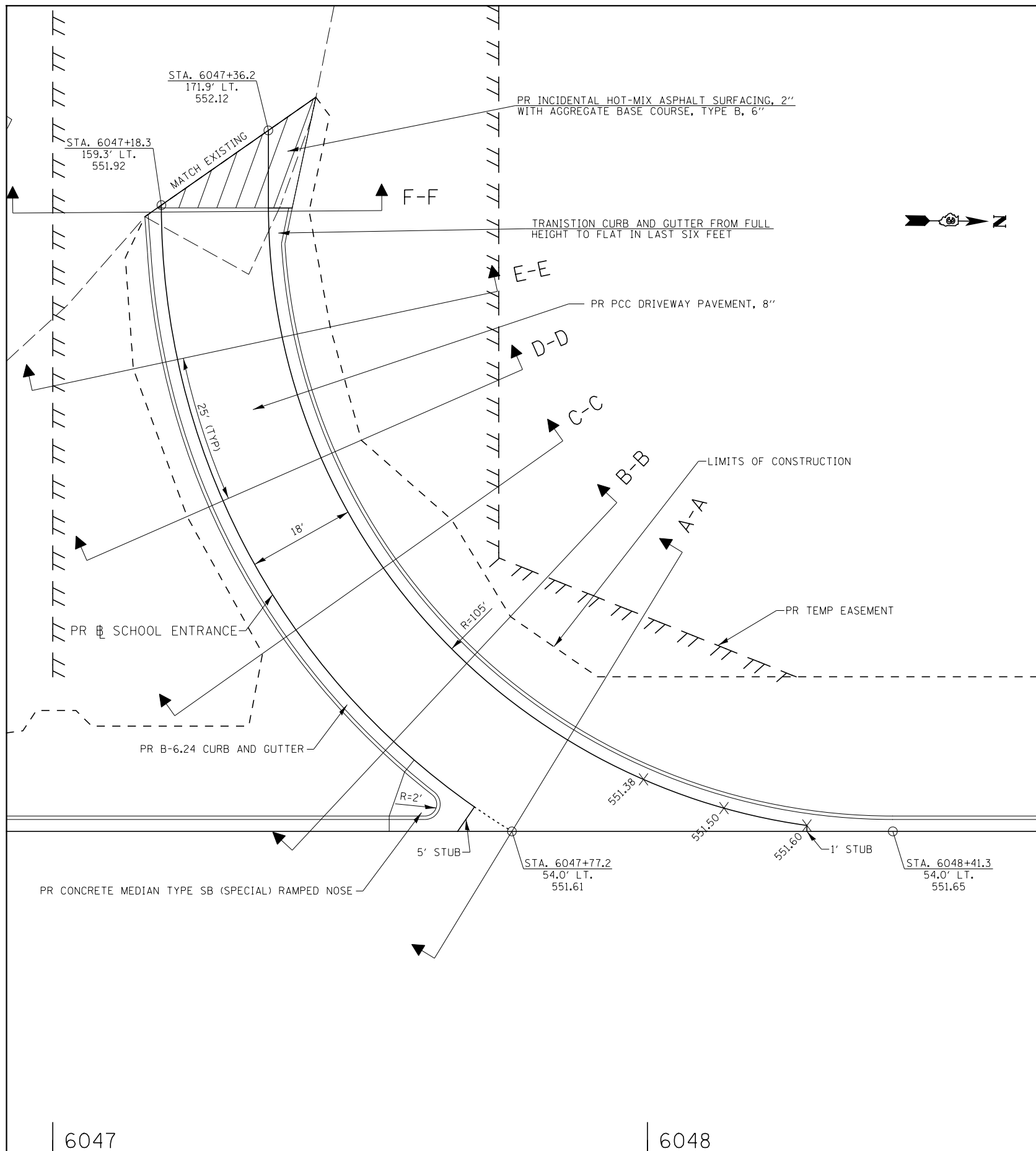
**IL. RTE. 47
SANITARY SEWER PROTECTION DETAIL**

SCALE: NONE SHEET 2 OF 2 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	(110)R, BR & BR-1	GRUNDY	644	450
CONTRACT NO. 66B83				
ILLINOIS FED. AID PROJECT				

INDEX OF DETAILS

SHEET NO	DETAILS
451	INDEX OF DETAIL SHEETS
452	SARATOGA SCHOOL ENTRANCE DETAIL
453	CULVERT AT STA. 6098+24 CHANNEL DETAIL
454	CULVERT AT STA. 6248+00 CHANNEL DETAIL
455	GRACE LUTHERAN CHURCH SITE PLAN
456	SOUTHBOUND CONNECTION DETAILS
457	NORTHBOUND CONNECTION DETAILS
458	FUTURE CROSSOVER DETAIL
459	EROSION CONTROL BLANKET DETAILS TYPICAL LANDSCAPING DETAILS
460	SLOPE VARIATION AT SANITARY MANHOLES DETAIL MODIFIED DITCH SECTION DETAIL SETTLEMENT PLATFORM DETAIL
461	TRANSVERSE SLOPES DETAILS RURAL MEDIAN NOSE DETAIL
462	MAINLINE PAVEMENT TERMINATION DETAILS CASTINGS IN P.C.C. PAVEMENT
463	MISCELLANEOUS PAVEMENT DETAILS
464-466	ENTRANCE DETAILS
467	PEDESTRIAN RAILING DETAILS
468	SLOTTED DRAIN PIPE DETAILS
469	BOX CULVERT BACKFILLING DETAIL
470	LONGITUDINAL PIPE UNDERDRAIN OUTLET DETAILS
471	TREATMENT OF EXISTING FIELD TILE DETAILS
472	LAND SECTION MARKER DETAILS
473-474	PAVEMENT MARKING DETAILS
475	WORK ZONE SIGNING AND BARRIER WALL MARKER DETAILS
476	MODULAR WALL DETAILS
477	PRECAST REINFORCED CONCRETE FLARED DROP BOX END SECTION
478	AUTOMATIC FLAPGATE DETAIL
479	PIPELINE CONFLICT DETAIL
480	HTC MEDIAN BARRIER AND WEED CONTROL MOWING STRIP (SPECIAL)
481	TEMPORARY INFORMATION SIGNS



6047

6048

SARATOGA SCHOOL ENTRANCE DETAIL

FILE NAME =	USER NAME = bdecreane	DESIGNED - LDZ	REVISED -
V:\3195\66883 (South Section)\CADD Sheets\0366883-sht-details-2.dgn		DRAWN - SGM	REVISED -
		CHECKED - DJD	REVISED -
		DATE - 7/15/2013	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

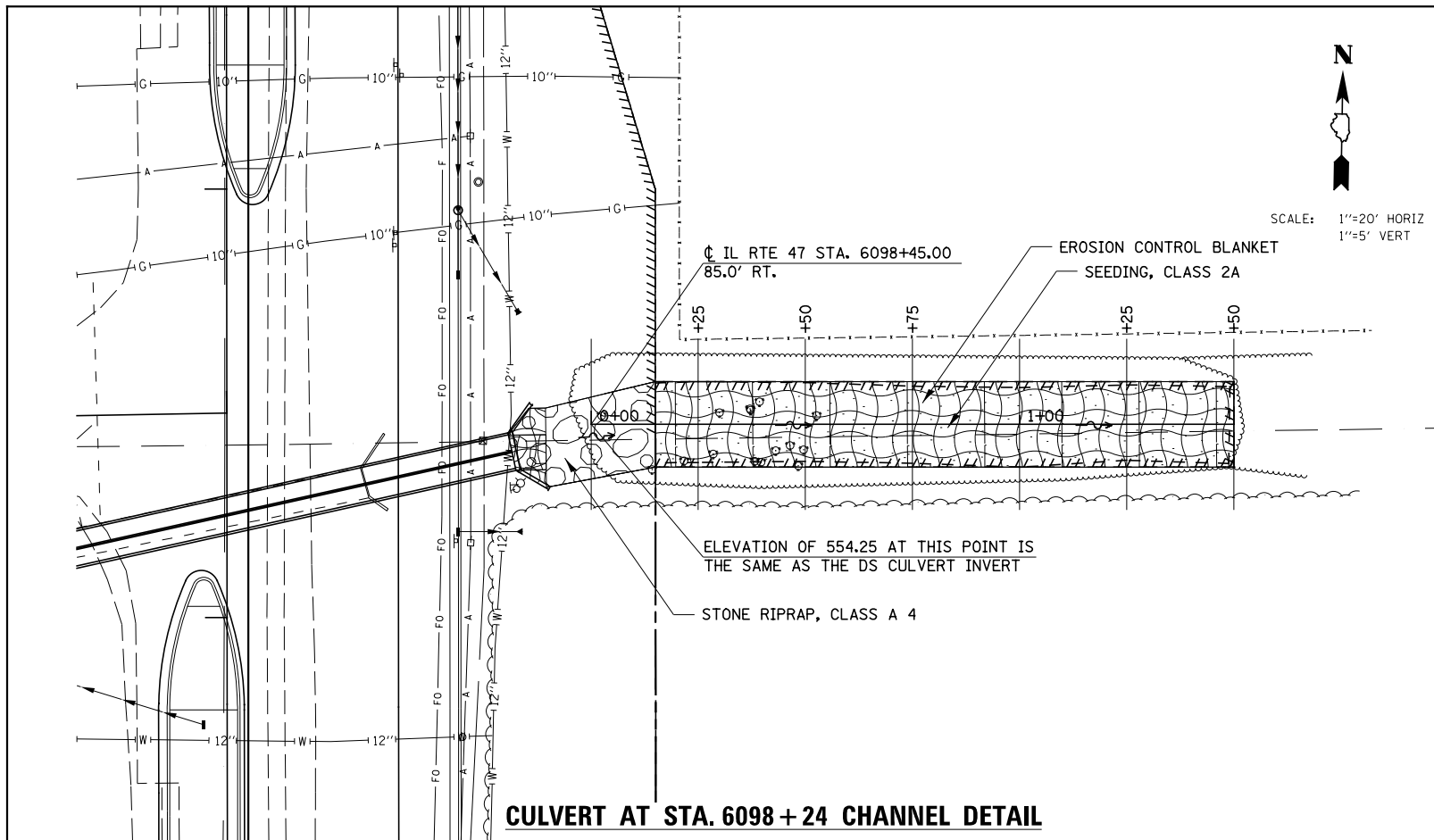
SCALE: H=10 V=5 SHEET NO. 2 OF 31 SHEETS STA. N/A TO STA. N/A

**IL. RTE. 47
DETAILS**

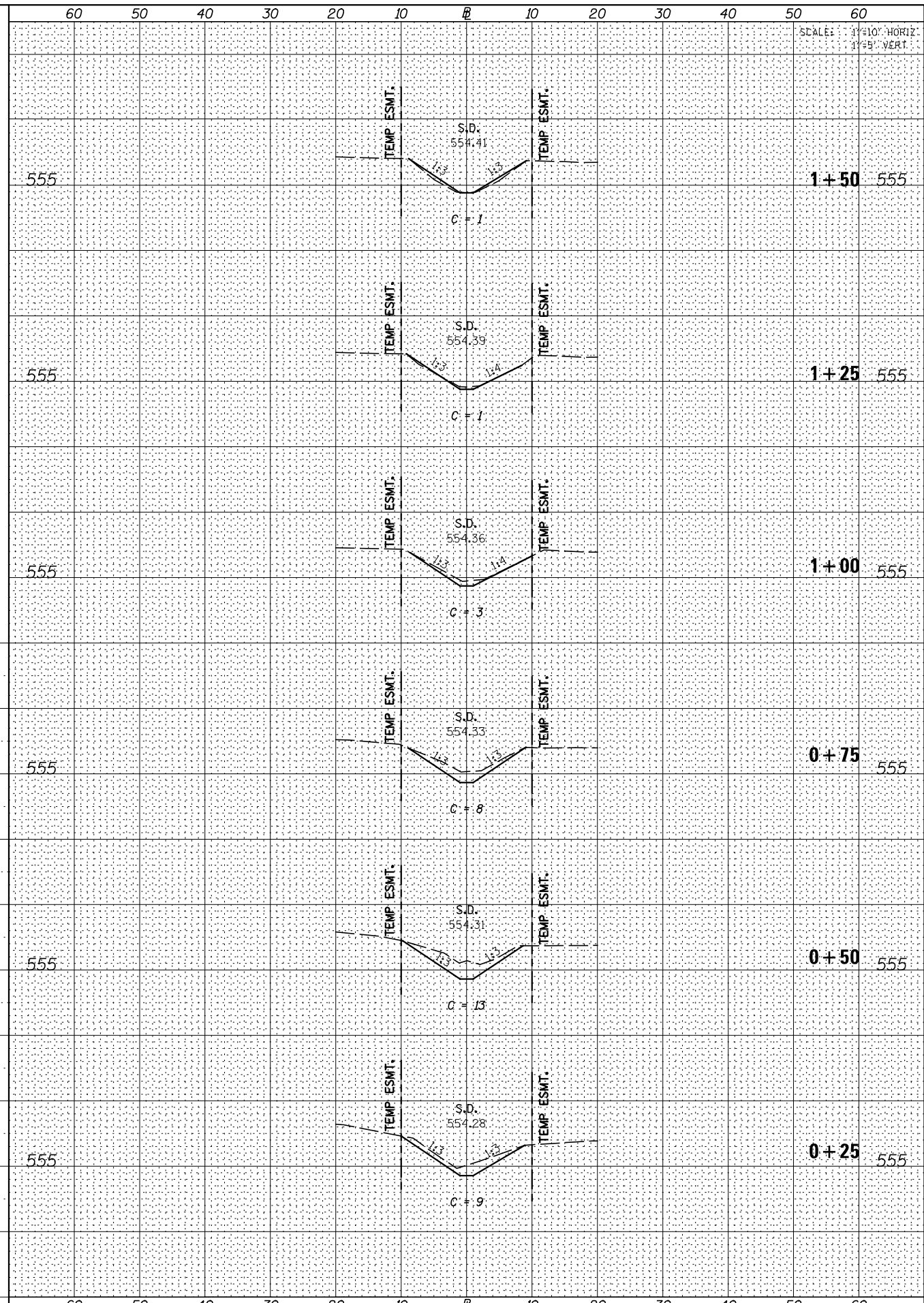
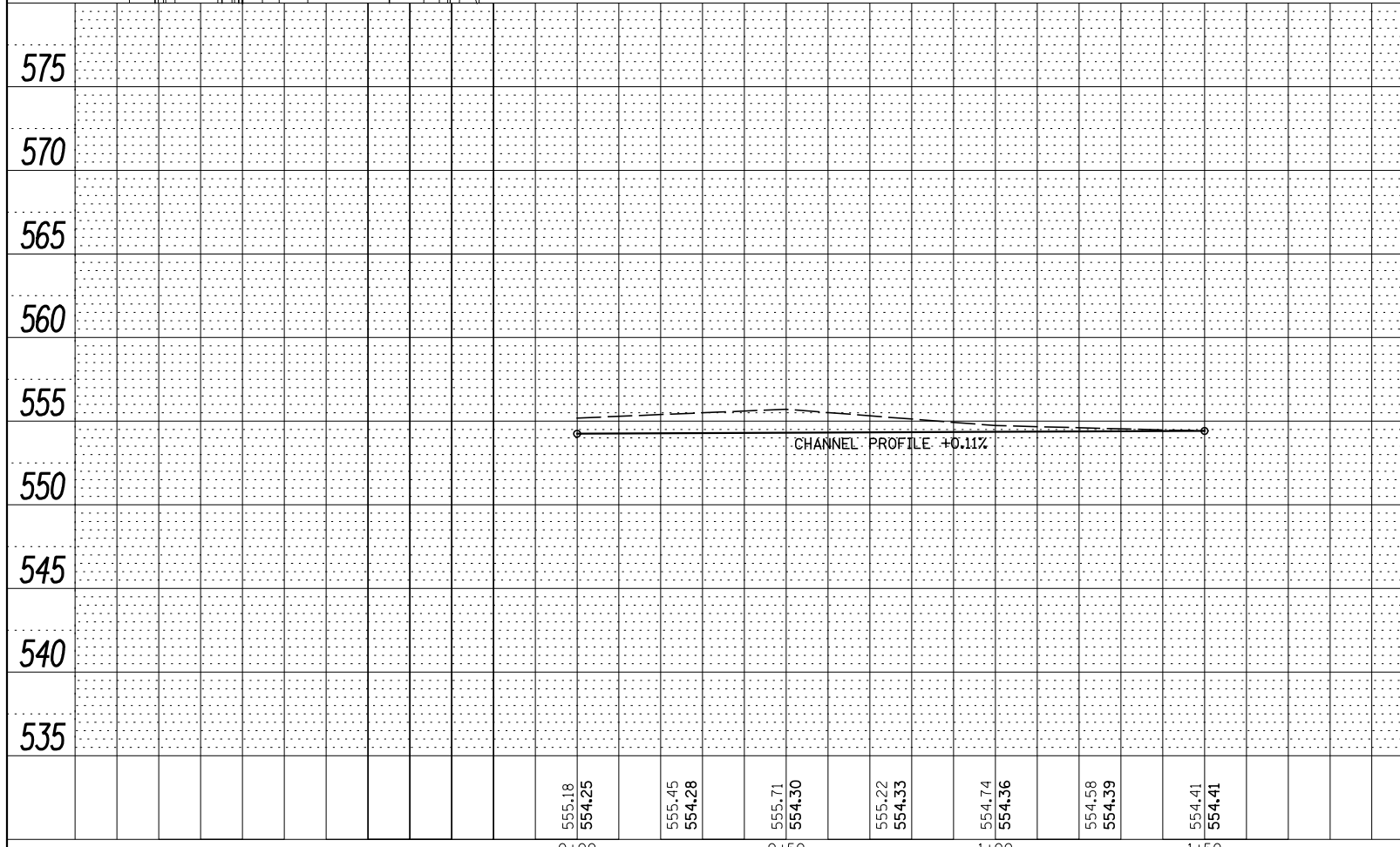
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	(110)R, BR & BR-1	GRUNDY	644	452
CONTRACT NO. 66883				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

PLAN	SURVEYED	DATE
	PLOTTED	BY
	ALIGNED	CHECKED
	NOTE BOOK	NO.
	CADD FILE NAME	

PROFILE	SURVEYED	DATE
	PLOTTED	BY
	GRADES CHECKED	
	STRUCTURE	NOT AT THIS OFFICE
	NO.	



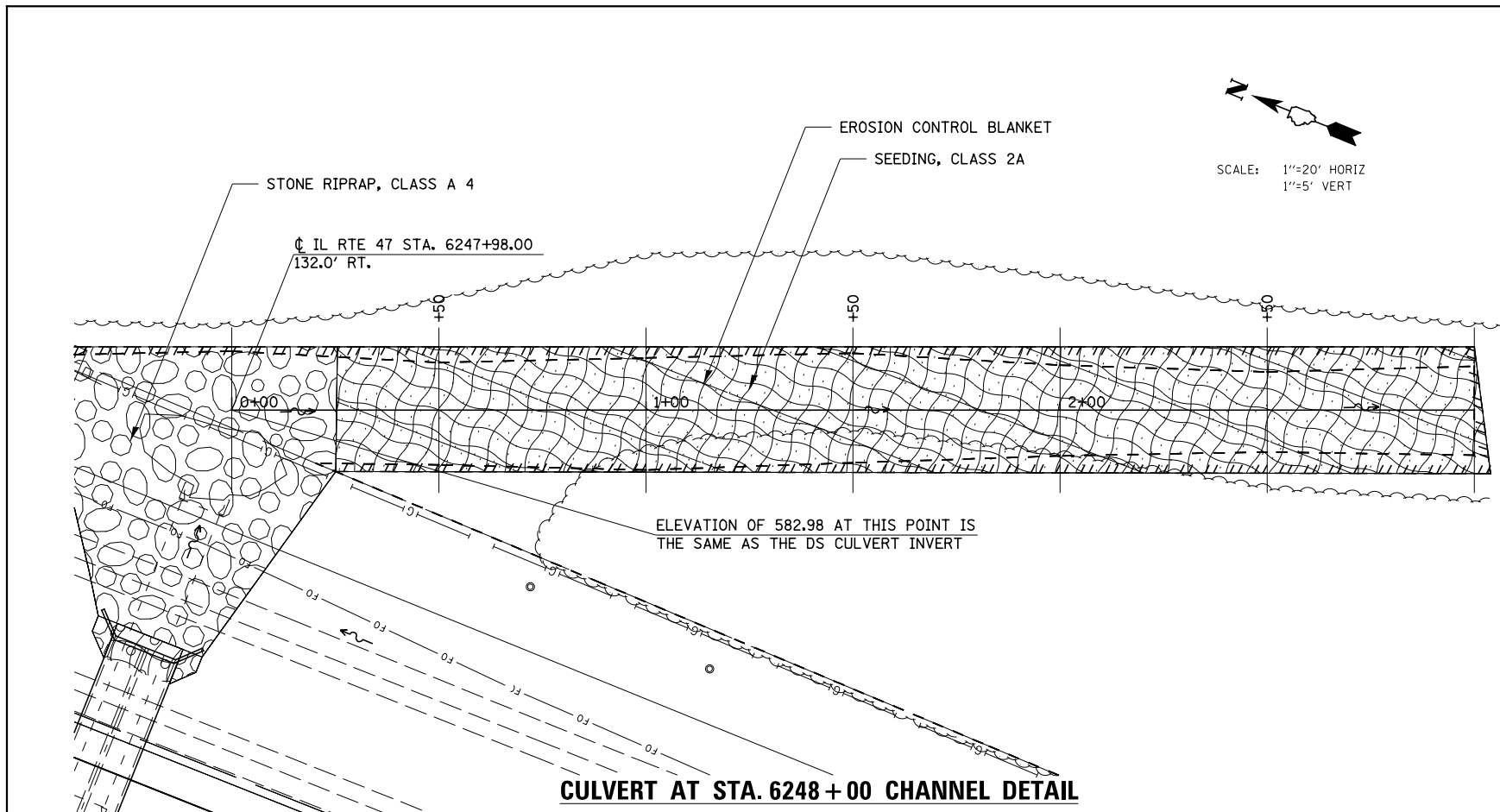
CULVERT AT STA. 6098+24 CHANNEL DETAIL



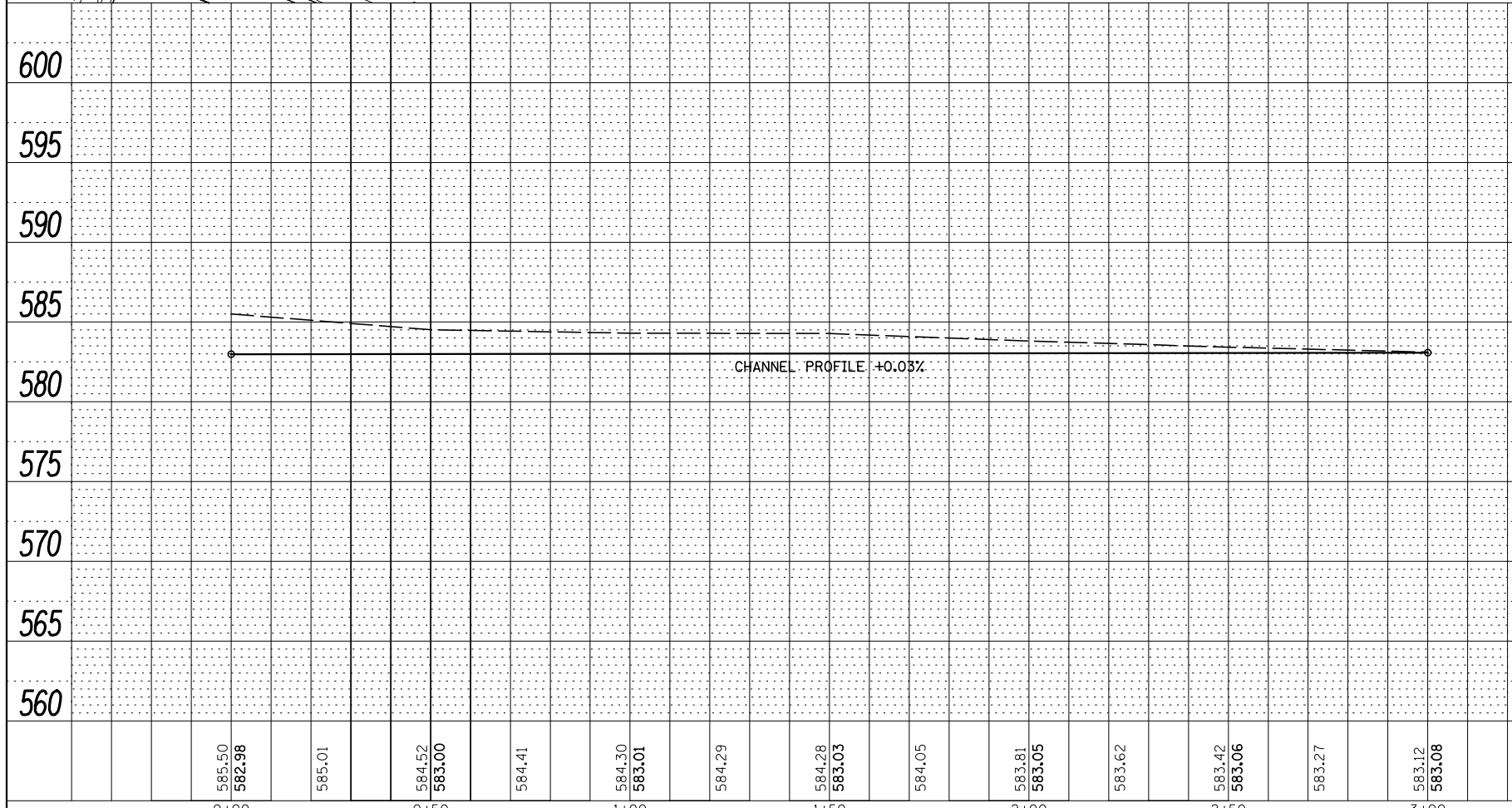
FILE NAME = V:\3195\66B83 (South Section)\CADD Sheets\0366B83-shd-details-3.dgn	USER NAME = bdecreane	DESIGNED - LDZ	REVISIED -	<p align="center">STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</p> <p align="center">IL. RTE. 47 DETAILS</p>		F.A.P. RTE. 326	SECTION (110)R, BR & BR-1	COUNTY GRUNDY	TOTAL SHEETS 644	SHEET NO. 453	
PLOT SCALE = 40.0000' / in.	CHECKED - DJD	REVISIED -	SCALE: AS SHOWN			SHEET 3 OF 31 SHEETS	STA. 0+00 TO STA. 1+50	CONTRACT NO. 66B83		ILLINOIS FED. AID PROJECT	
PLOT DATE = 8/6/2013	DATE - 7/15/2013	REVISIED -									

PLAN	SURVEYED	DATE
	PLOTTED	BY
	ALIGNED	
	CHECKED	
	FILE NAME	
	NO.	

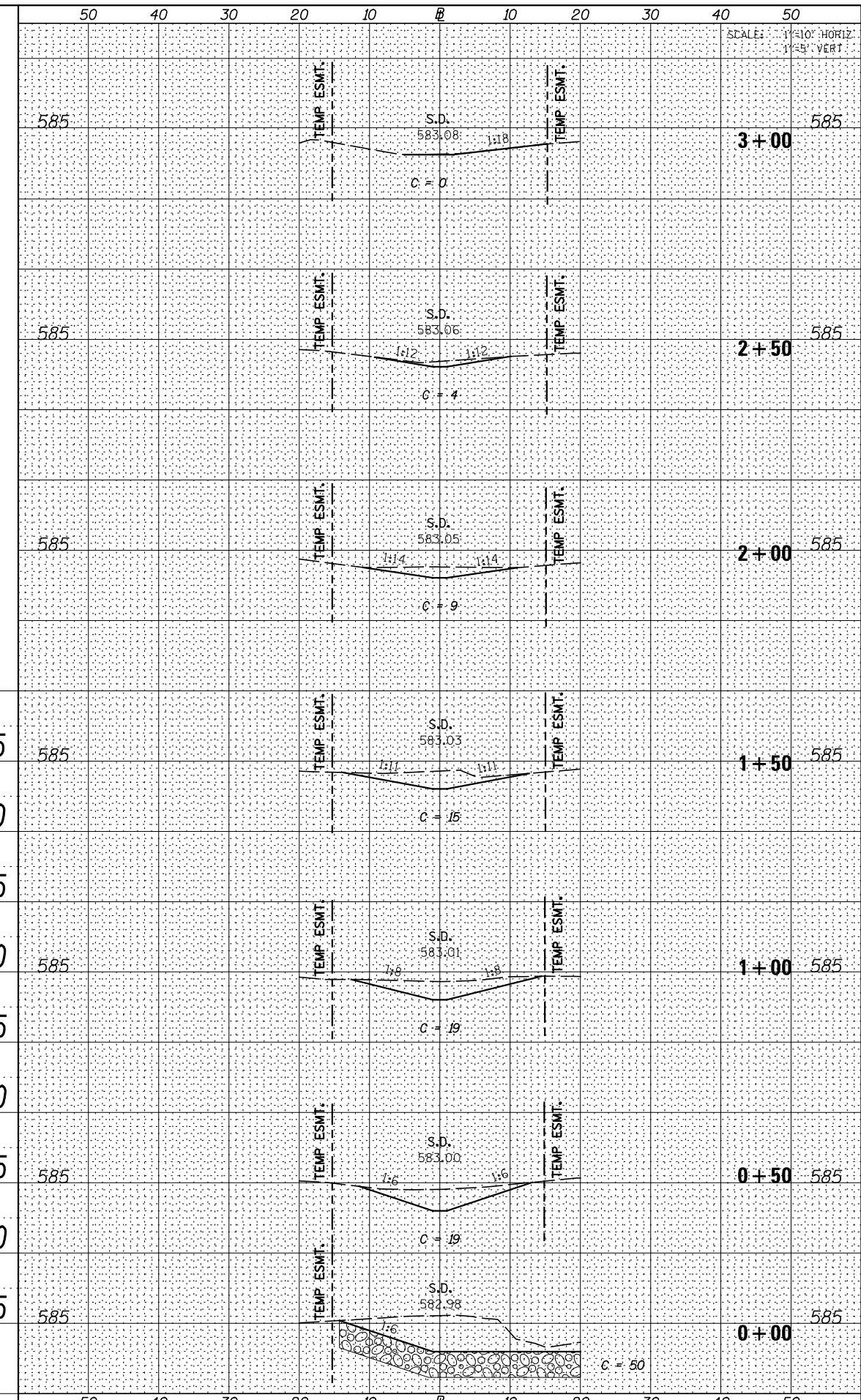
PROFILE	SURVEYED	DATE
	PLOTTED	BY
	GRADES CHECKED	
	STRUCTURE	
	NOT AT THIS OFFICE	
	NO.	



CULVERT AT STA. 6248+00 CHANNEL DETAIL



CHANNEL PROFILE +0.03%



FILE NAME =	USER NAME = bdecreane	DESIGNED - LDZ	REVISED -
V:\3195\66883 (South Section)\CADD Sheets\0366883-shd-details-4.dgn		DRAWN - SGM	REVISED -
		CHECKED - DJD	REVISED -
		DATE - 7/15/2013	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

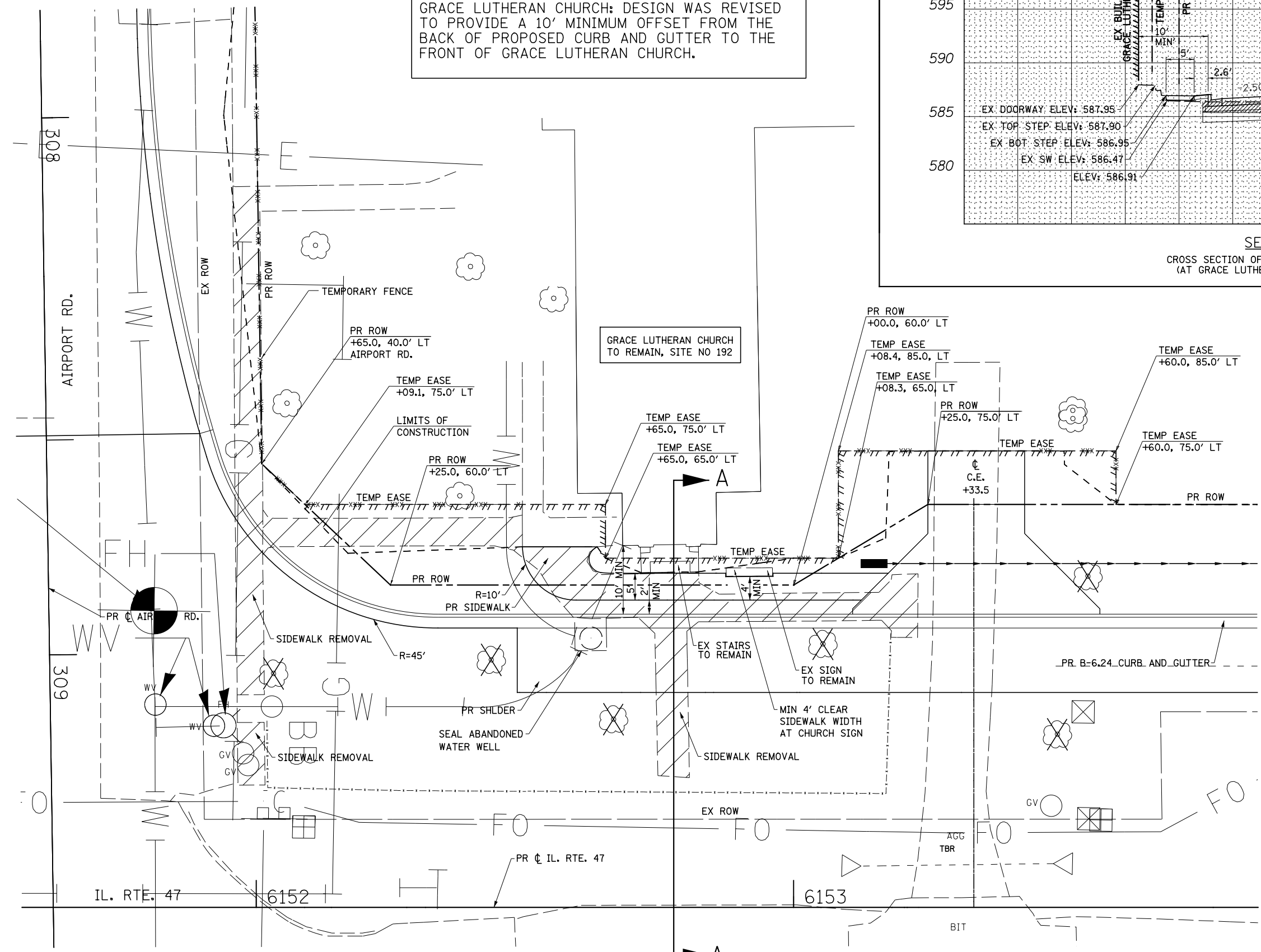
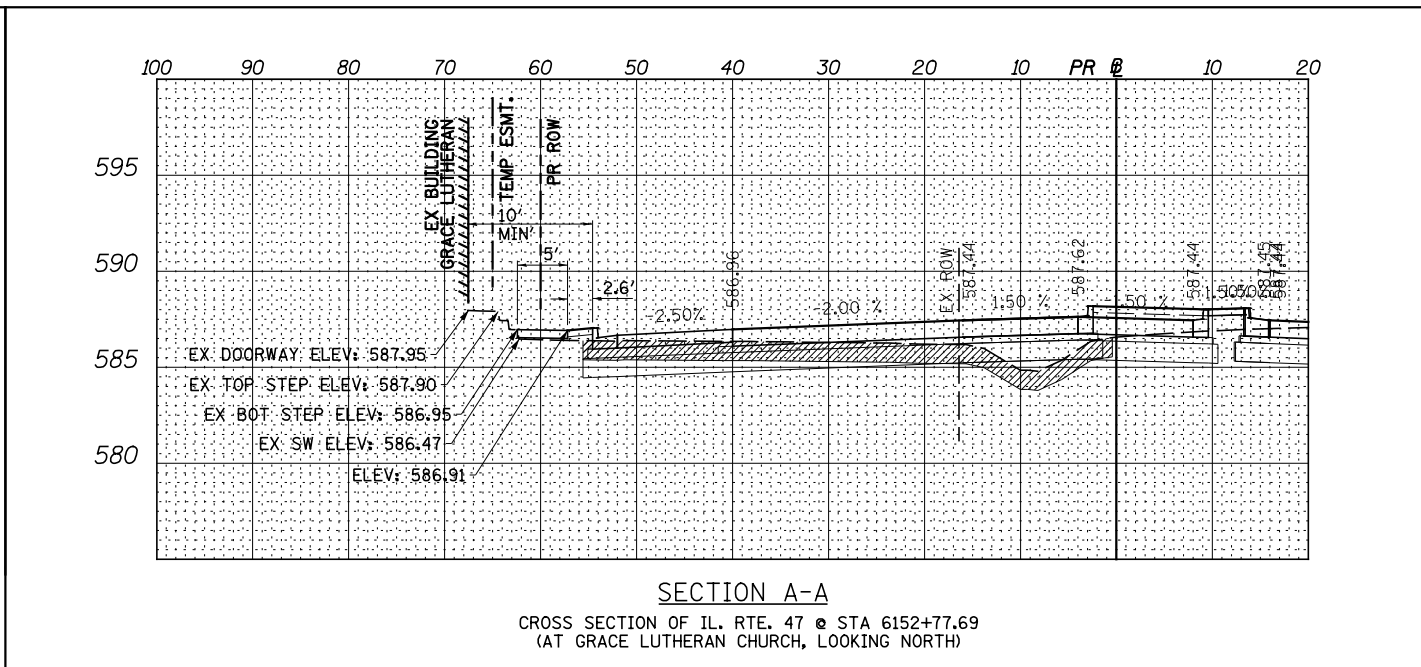
SCALE: AS SHOWN	SHEET 4 OF 31 SHEETS	STA. 0+00 TO STA. 3+00
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**IL. RTE. 47
DETAILS**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	(110)R, BR & BR-1	GRUNDY	644	454
CONTRACT NO. 66883				

ILLINOIS FED. AID PROJECT

PROJECT COMMITMENTS
 GRACE LUTHERAN CHURCH: DESIGN WAS REVISED TO PROVIDE A 10' MINIMUM OFFSET FROM THE BACK OF PROPOSED CURB AND GUTTER TO THE FRONT OF GRACE LUTHERAN CHURCH.



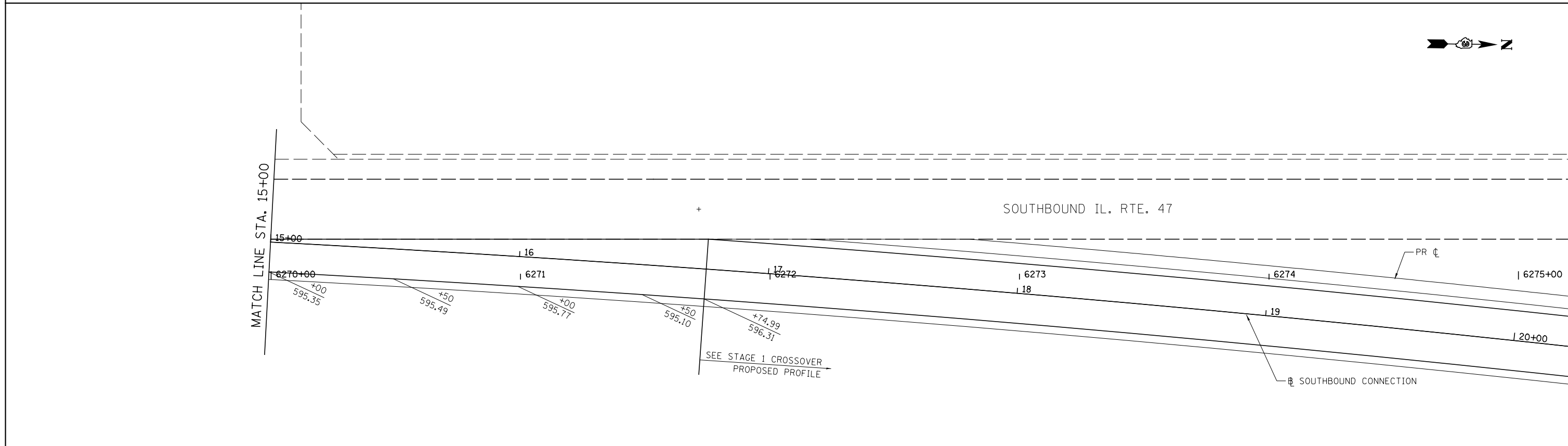
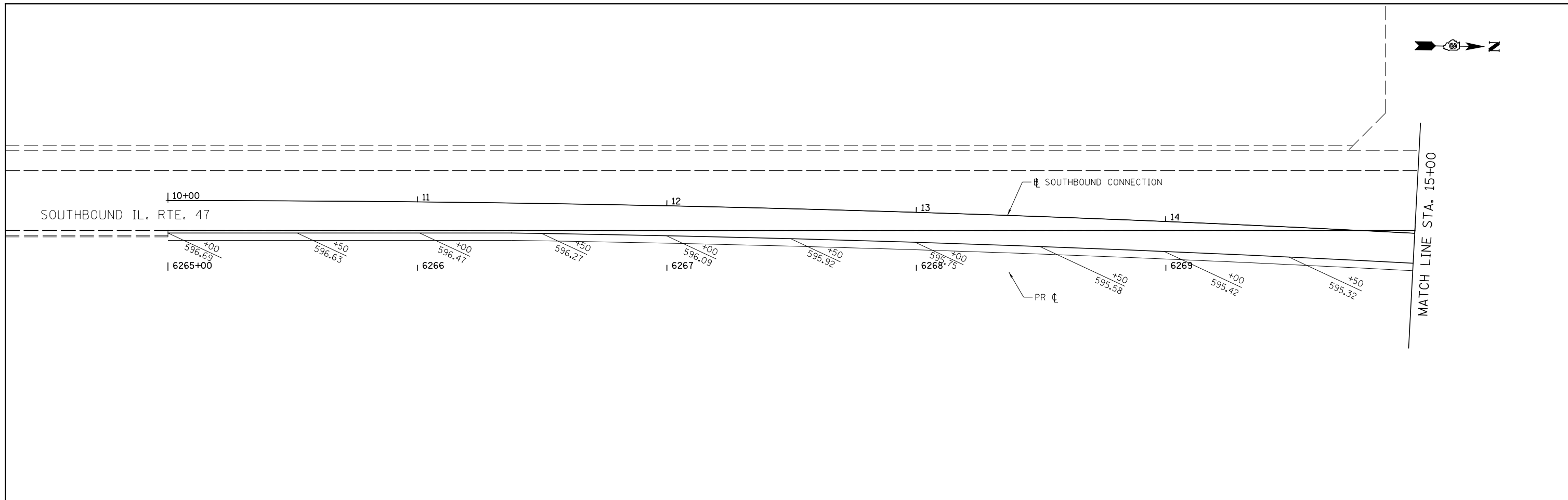
GRACE LUTHERAN CHURCH SITE PLAN

FILE NAME =	USER NAME = bdecrane	DESIGNED - LDZ	REVISED -
V:\3195\668B3 (South Section)\CADD Sheets\03668B3-sh1-details-5.dgn		DRAWN - SGM	REVISED -
	PLOT SCALE = 20.000' / in.	CHECKED - DJD	REVISED -
	PLOT DATE = 8/6/2013	DATE - 7/15/2013	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**IL. RTE. 47
 DETAILS**
 SCALE: 1" = 10'
 SHEET NO. 5 OF 31 SHEETS
 STA. 6151+50 TO STA. 6153+60

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	(110R, BR & BR-1)	GRUNDY	644	455
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				



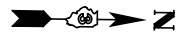
SOUTHBOUND CONNECTION DETAILS

FILE NAME =	USER NAME = bdecreane	DESIGNED - HLC	REVISED -
V:\3195\66883 (South Section)\CADD Sheets\0366883-sht-details-6.dgn		DRAWN - HLC	REVISED -
	PLOT SCALE = 40.0000' / in.	CHECKED - CAS	REVISED -
SHT.PLAN	PLOT DATE = 8/6/2013	DATE - 7/15/2013	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**IL. RTE. 47
DETAILS**
SCALE: 1"=20' SHEET 6 OF 31 SHEETS STA. 10+00.00 TO STA. 16+74.99

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	(110R, BR & BR-1)	KENDALL	644	456
CONTRACT NO. 66B83			ILLINOIS FED. AID PROJECT	



SOUTHBOUND IL. RTE. 47

6276

6277

6278

6279

6280+00

6281

PR ϕ

SOUTHBOUND CONNECTION

SEE NORTHBOUND CONNECTION
PROPOSED PROFILE

NORTHBOUND CONNECTION

EXISTING IL.RTE. 47

61

62

63

64

65+00

+81.32
595.73

+00
595.72

+50
595.67

+00
595.64

+50
595.69

+00
595.54

+50
595.48

+00
595.39

+50
595.31

NORTHBOUND CONNECTION DETAILS

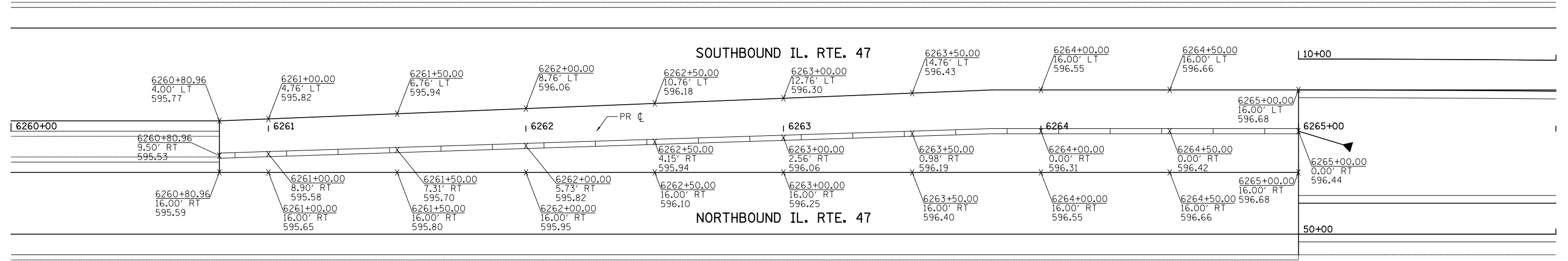
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SHT.PLAN	PLOT SCALE = 40.0000' / in.	CHECKED - CAS	REVISED -
	PLOT DATE = 8/6/2013	DATE - 7/15/2013	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

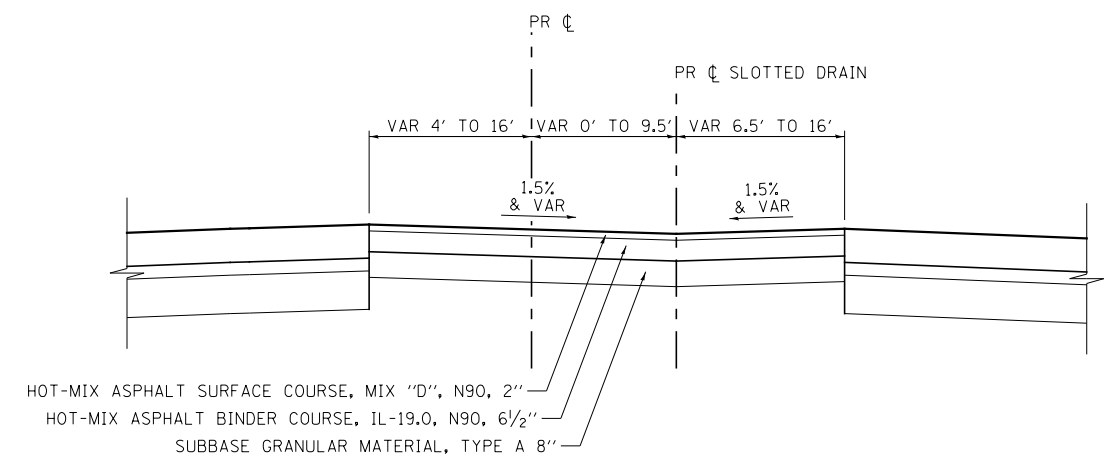
**IL. RTE. 47
DETAILS**

SCALE: 1"=20' SHEET 7 OF 31 SHEETS STA. 61+81.32 TO STA. 65+52.41

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	(110)R, BR & BR-1	KENDALL	644	457
ILLINOIS FED. AID PROJECT			CONTRACT NO. 66B83	



PLAN



HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N90, 2"
 HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90, 6 1/2"
 SUBBASE GRANULAR MATERIAL, TYPE A 8"

TYPICAL SECTION

IL. RTE. 47

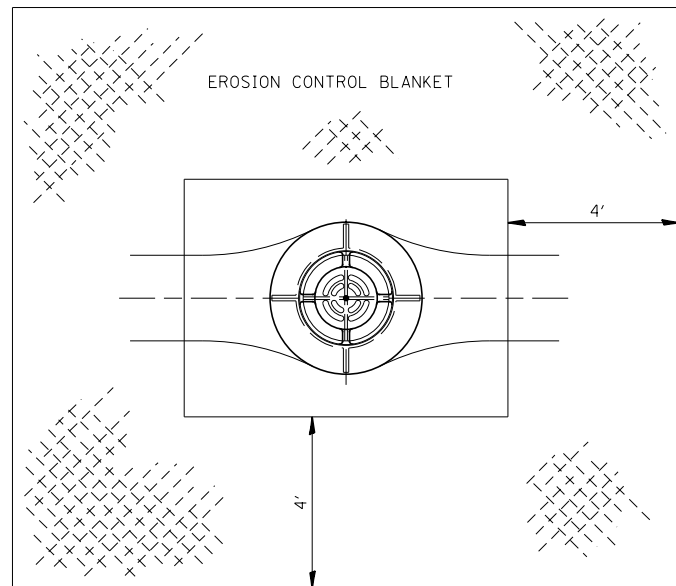
STA 6260+80.96 TO STA 6265+00

FUTURE CROSSOVER DETAIL

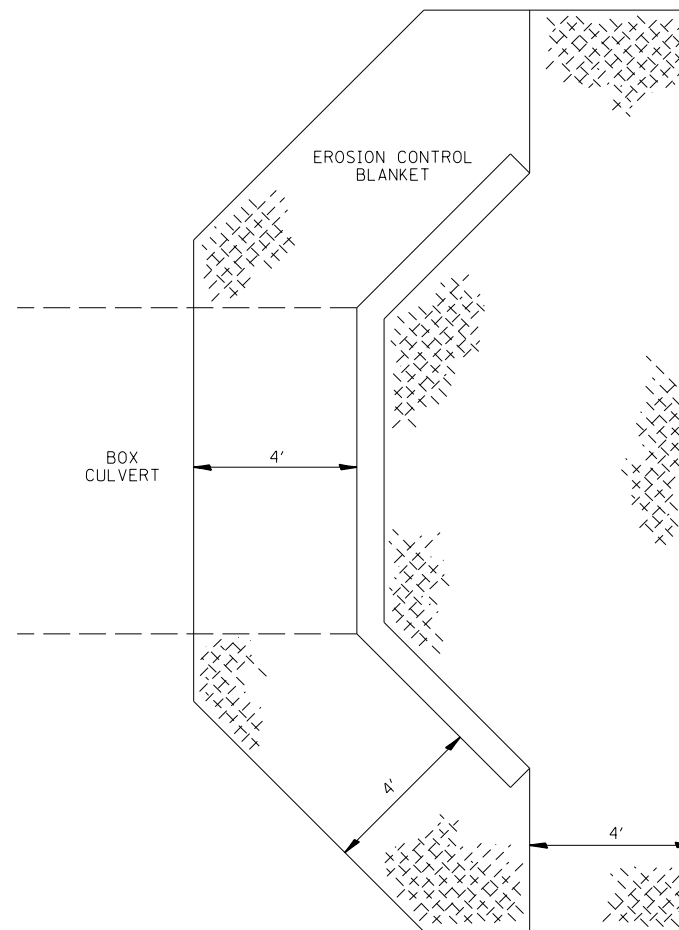
NOTES:

1. PAVEMENT TO BE PAID FOR AS TEMPORARY PAVEMENT.
2. PAVEMENT TO REMAIN AFTER CONTRACT.

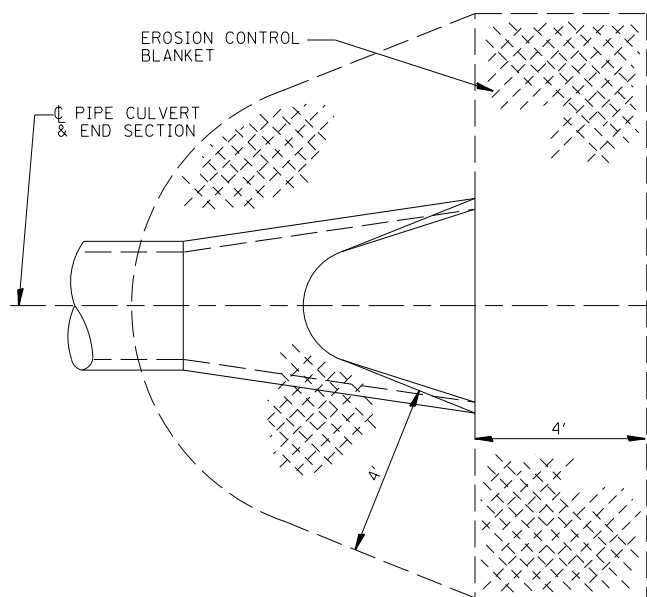
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	PLOT SCALE = 40.0000' / in.	CHECKED - DJD	REVISED -		SCALE: N/A	SHEET NO. 8 OF 31 SHEETS	STA. N/A TO STA. N/A	CONTRACT NO. 66883				
	PLOT DATE = 8/6/2013	DATE - 7/15/2013	REVISED -		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT							



AT MEDIAN INLET STD. 604101 OR STD. 640106



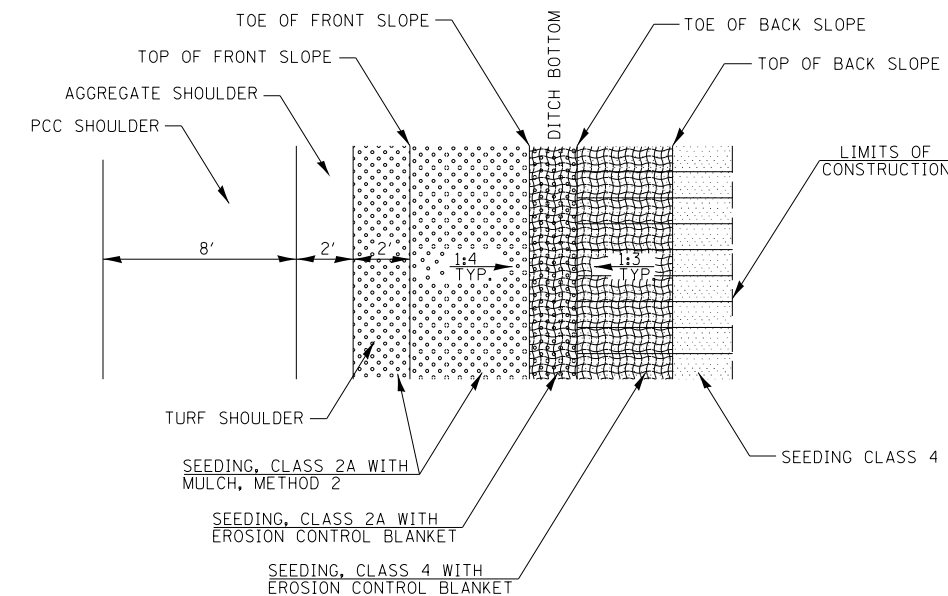
AT BOX CULVERT END SECTIONS



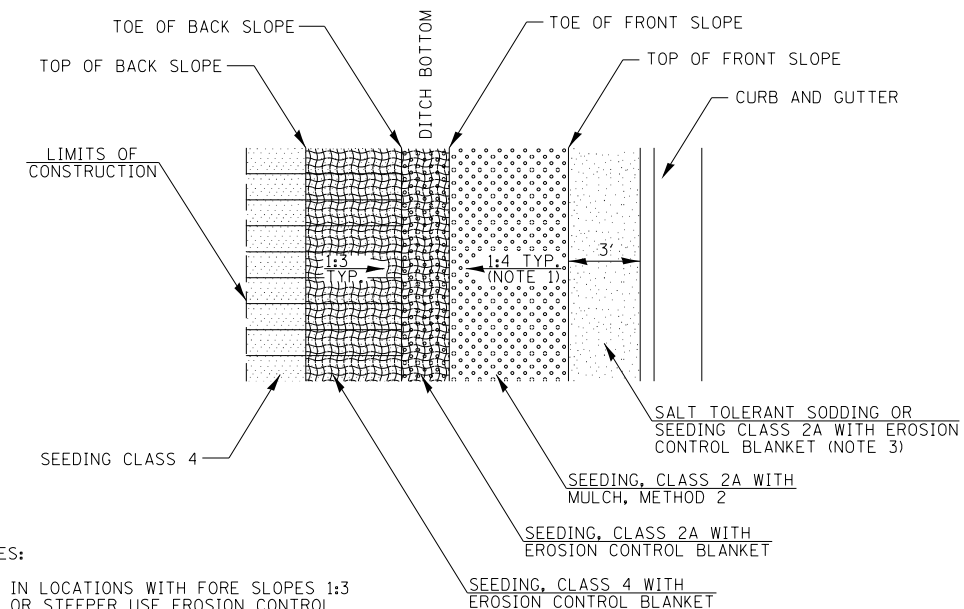
LINING AROUND END SECTION

NOTES:
TO BE USED AT ALL END SECTIONS.
PRC FLARED END SECTION SHOWN.
TREATMENT SAME FOR OTHER END SECTIONS

EROSION CONTROL BLANKET DETAILS



IN SHOULDER AREAS



IN CURB & GUTTER AREAS

NOTES:

1. IN LOCATIONS WITH FORE SLOPES 1:3 OR STEEPER USE EROSION CONTROL BLANKET INSTEAD OF MULCH
2. SEE LANDSCAPING & EROSION CONTROL PLANS FOR EXACT LOCATIONS OF LANDSCAPING ITEMS.
3. SEE LANDSCAPING AND EROSION CONTROL SHEETS FOR LOCATIONS.

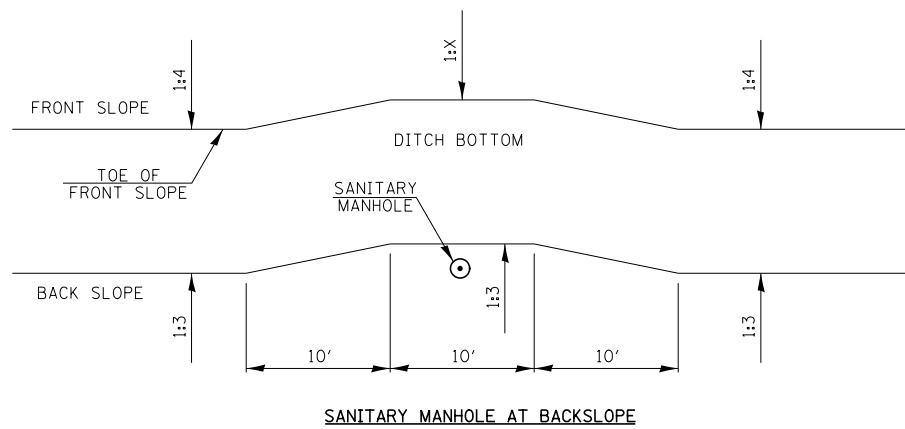
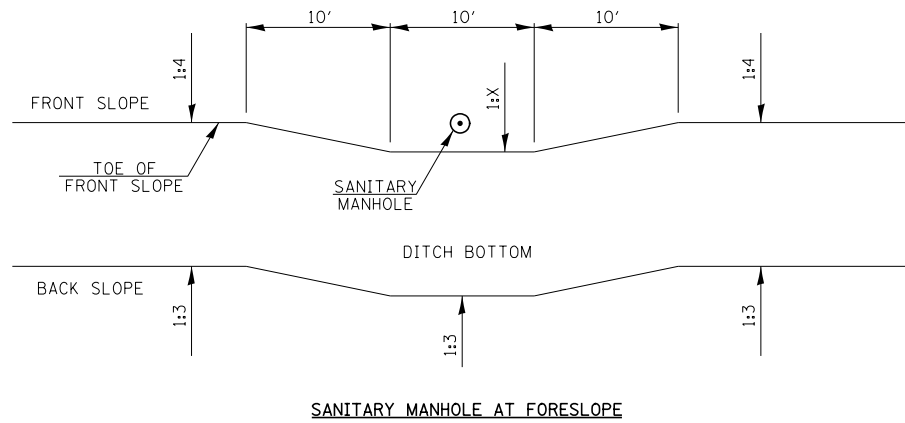
TYPICAL LANDSCAPING DETAILS

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	PLOT SCALE = 2.000' / in.	CHECKED - DJD	REVISED -
	PLOT DATE = 8/6/2013	DATE - 7/15/2013	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

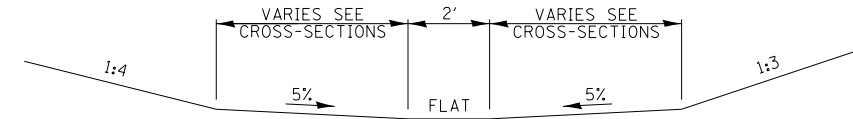
IL. RTE. 47 DETAILS		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
SCALE: N/A	SHEET NO. 9 OF 31 SHEETS	STA. N/A	TO STA. N/A	326	(110)R, BR & BR-1	GRUNDY 644 459
CONTRACT NO. 66883						

ILLINOIS FED. AID PROJECT	
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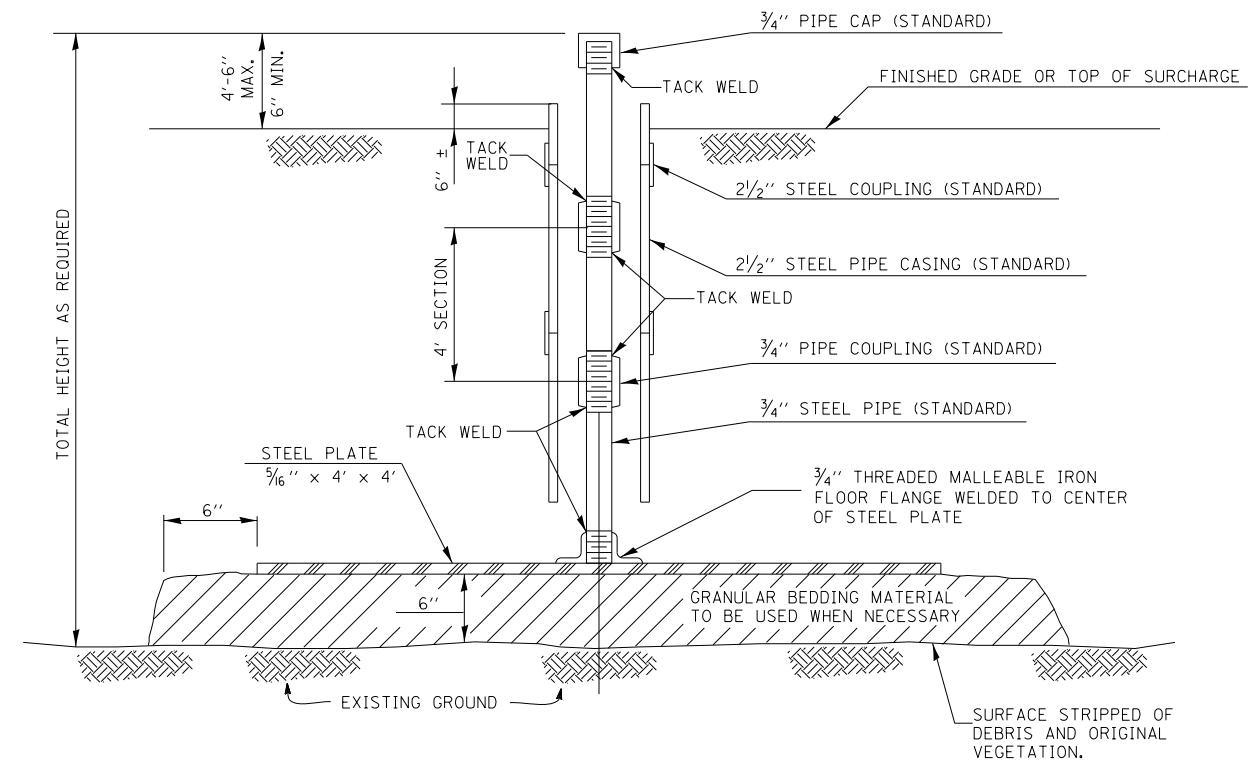
LOCATION	"X" SLOPE
STA. 6038+55	1:4.5
STA. 6055+58	1:6
STA. 6066+53	1:3
STA. 6071+43	1:3

SLOPE VARIATION AT SANITARY MANHOLES DETAIL



- NOTES:**
1. TO BE USED WHERE DITCH BOTTOM > 4' AND DITCH PROFILE < 0.3%
 2. LOCATIONS: STA. 6029+00 TO 6040+20 RT.

MODIFIED DITCH SECTION DETAIL



SETTLEMENT PLATFORM DETAIL

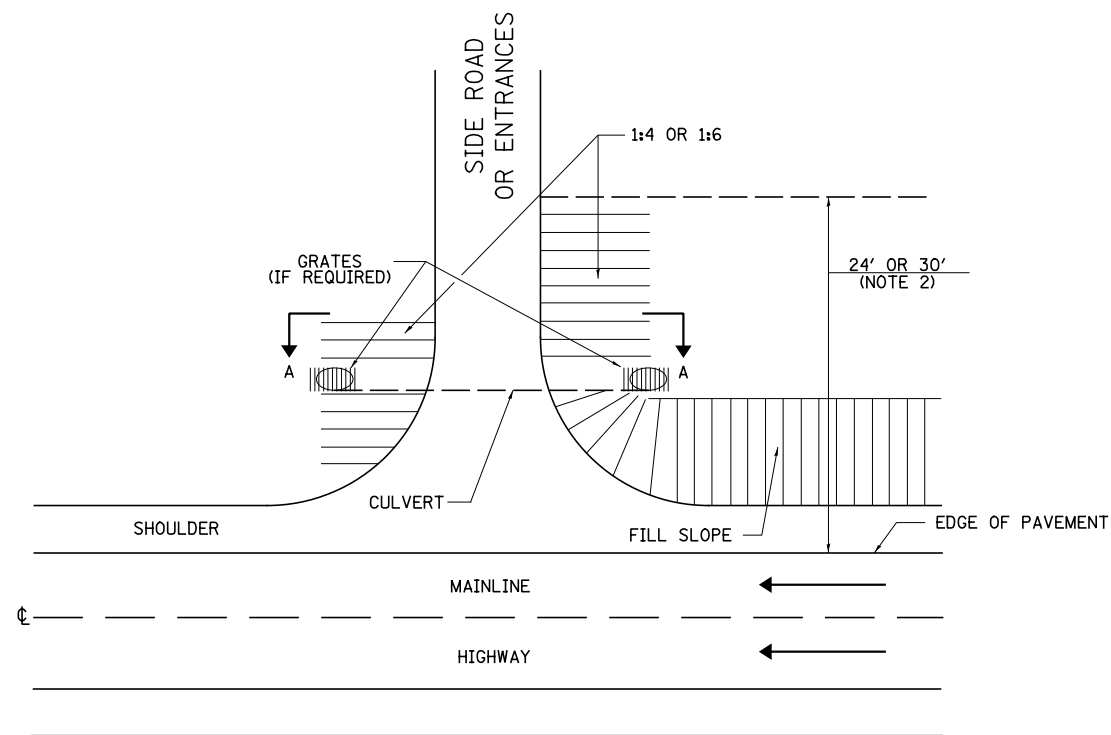
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PLOT DATE = 8/6/2013	DATE - 7/15/2013		REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

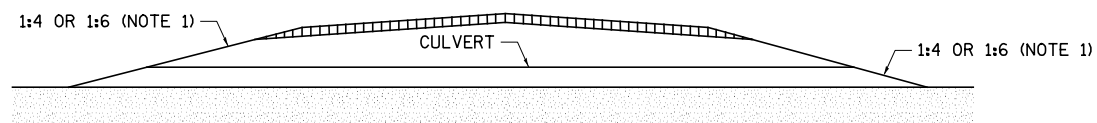
**IL. RTE. 47
DETAILS**

SCALE: N/A SHEET NO. 10 OF 31 SHEETS STA. N/A TO STA. N/A

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	(110)R, BR & BR-1	GRUNDY	644	460
CONTRACT NO. 66883				
ILLINOIS FED. AID PROJECT				



NOTE: ON A ONE-WAY FACILITY, THE GRATE ON THE DEPARTURE END IS NOT REQUIRED.

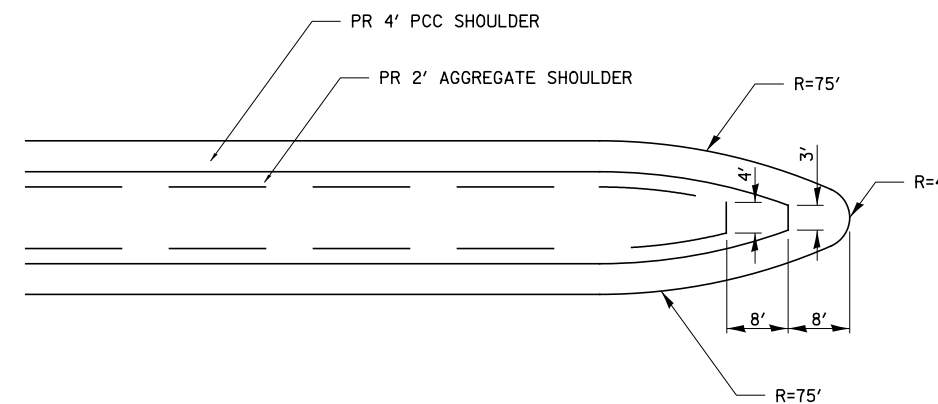


SECTION A-A

NOTES:

1. 1:4 SLOPES STA. 6029+00 TO STA. 6186+00
1:6 SLOPES STA. 6186+00 TO STA. 6292+00
2. 24' CLEAR ZONE FROM STA. 6029+00 TO STA. 6186+00
30' CLEAR ZONE FROM STA. 6186+00 TO STA. 6292+00

TRANSVERSE SLOPES DETAILS



RURAL MEDIAN NOSE DETAIL

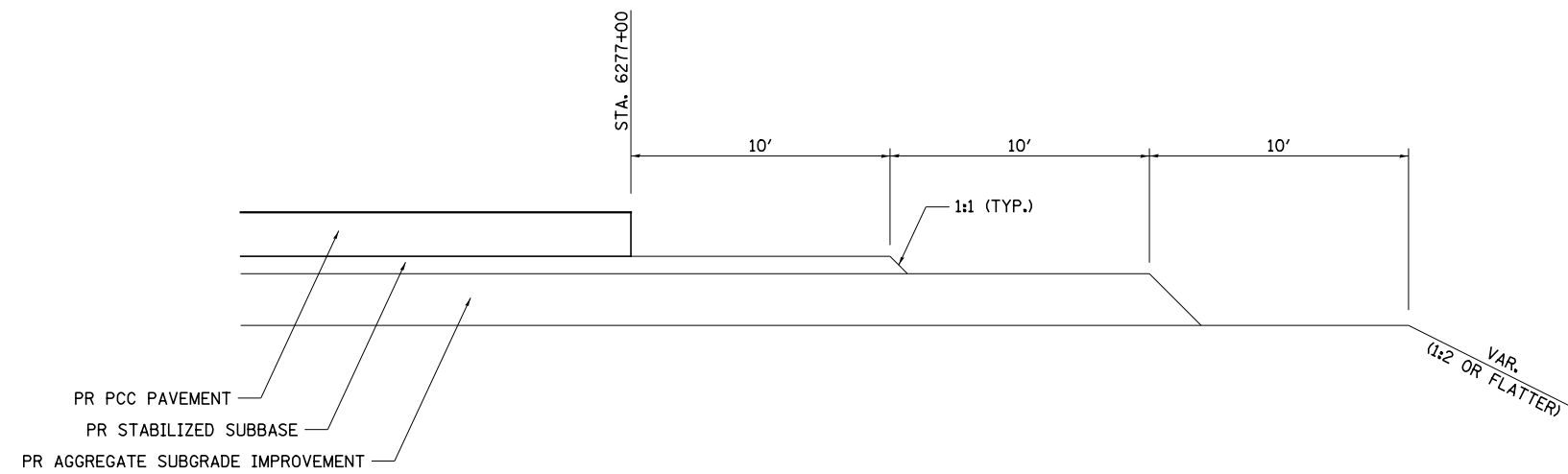
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	PLOT DATE = 8/6/2013	DATE - 7/15/2013	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**IL. RTE. 47
DETAILS**

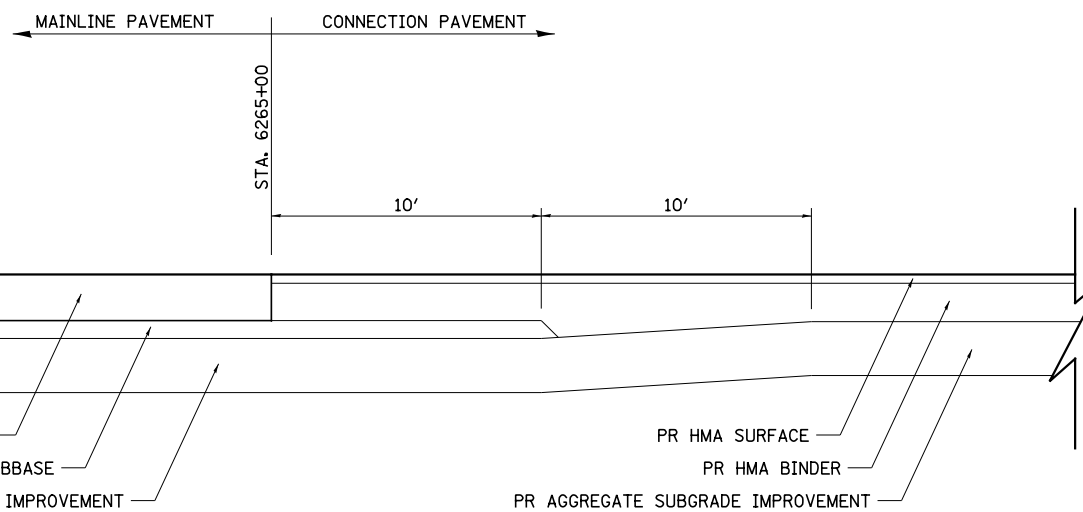
SCALE: N/A SHEET NO. 11 OF 31 SHEETS STA. N/A TO STA. N/A

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	(110)R, BR & BR-1	GRUNDY	644	461
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 66883	



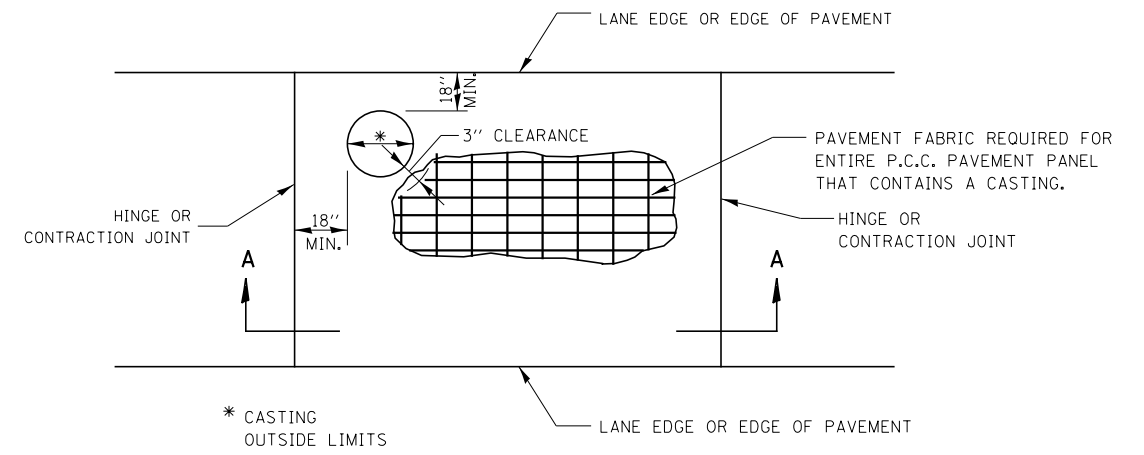
SOUTHBOUND PAVEMENT

NORTH TERMINUS



NORTHBOUND PAVEMENT

MAINLINE PAVEMENT TERMINATION DETAILS



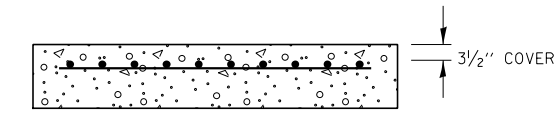
* CASTING
OUTSIDE LIMITS

GENERAL NOTES

THE CASTING SHALL BE SET TO GRADE, ANCHORED, AND INCORPORATED INTO THE P.C.C. PAVEMENT CONSTRUCTION. SEPARATE PAVEMENT BLOCKOUTS WILL NOT BE ALLOWED.

SEE STD. 420701 FOR ADDITIONAL PAVEMENT FABRIC DETAILS.

PAVEMENT FABRIC WILL BE PAID FOR SEPARATELY. THE QUANTITY OF PAVEMENT FABRIC WILL BE THE COMPUTED SURFACE AREA OF THE P.C.C. PAVEMENT PANEL IN WHICH THE PAVEMENT FABRIC IS INSTALLED. NO DEDUCTION WILL BE MADE FOR THE CASTING AREA.



SECTION A-A

DESIGNER NOTES

INCLUDE STD. 420701
NEED PAY ITEM FOR PAVEMENT FABRIC

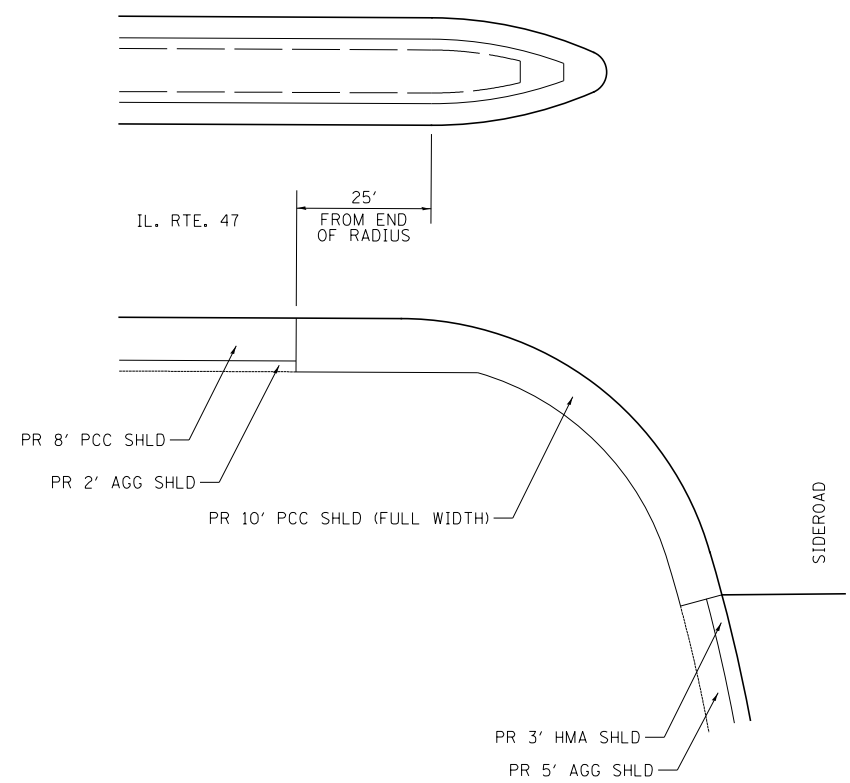
CASTINGS IN P.C.C. PAVEMENT

FILE NAME =	USER NAME = bdecreene	DESIGNED - LDZ	REVISED -
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PLOT DATE = 8/6/2013		DATE - 7/15/2013	REVISED -

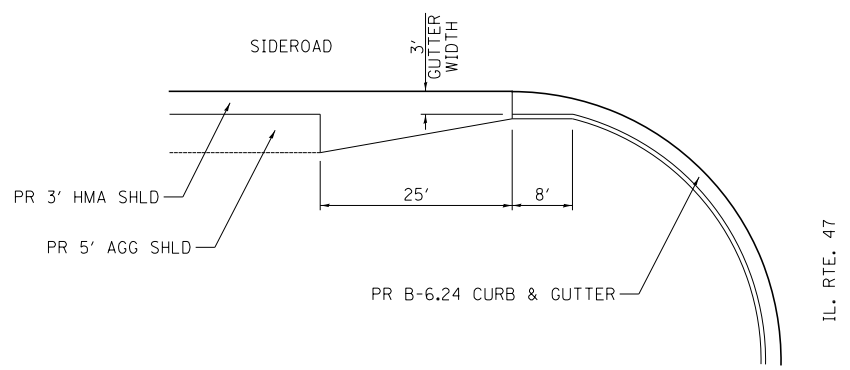
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

IL. RTE. 47 DETAILS	
SCALE: N/A	SHEET NO. 12 OF 31 SHEETS
STA. N/A	TO STA. N/A

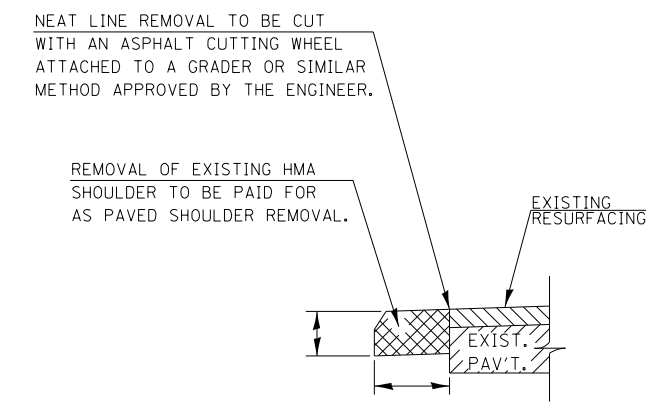
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	(110)R, BR & BR-1	GRUNDY	644	462
CONTRACT NO. 66883				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



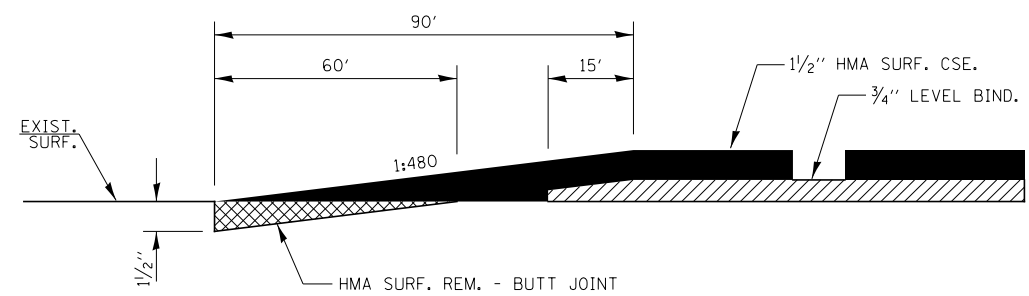
RURAL SIDEROAD INTERSECTION SHOULDER DETAIL



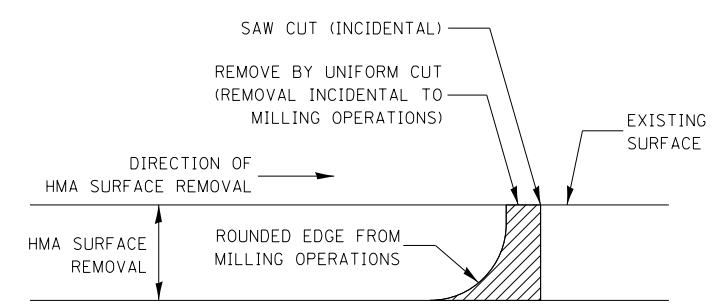
CURB & GUTTER TO SHOULDER TRANSITION AT SIDEROADS DETAIL



REMOVAL OF EXISTING HMA SHOULDER

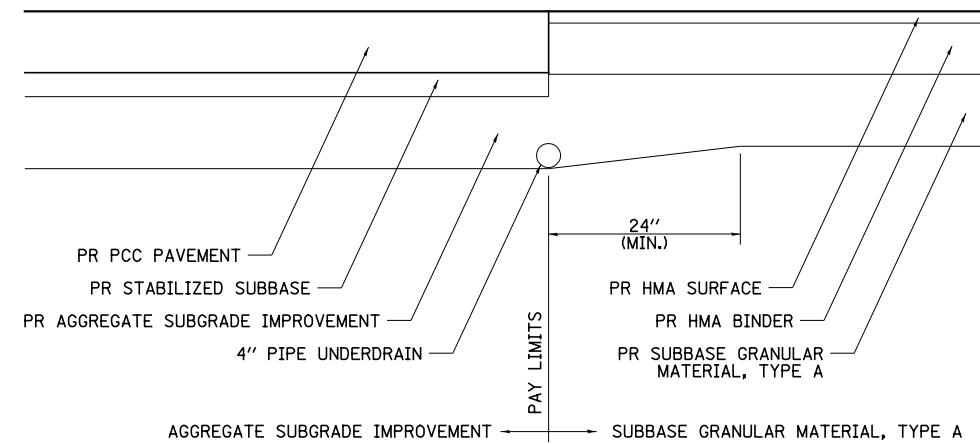


BUTT JOINT DETAIL SIDEROADS & NORTH CONNECTION

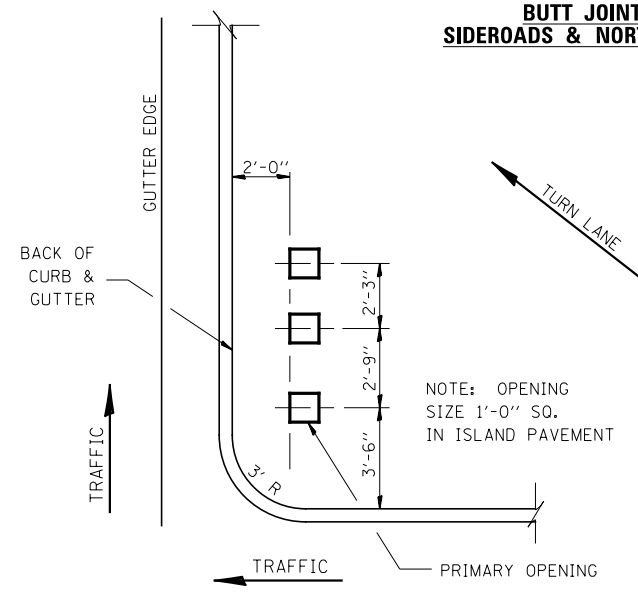


NOTE:
WHEN MILLING OPERATIONS PRODUCE A ROUNDED EDGE, THEN A SAW CUT SHALL BE USED TO MANUFACTURE A PERPENDICULAR EDGE AS SHOWN IN THE DETAIL. THE ENGINEER SHALL BE THE SOLE JUDGE CONCERNING THE USE OF THIS DETAIL

HMA DETAIL AT BUTT JOINTS



TRANSITION FROM MAINLINE TO SIDE ROAD PAVEMENT



ISLAND SIGN POST SPACING DETAIL

NOTE: THE ENGINEER SHALL DETERMINE THE NUMBER OF OPENINGS REQUIRED.

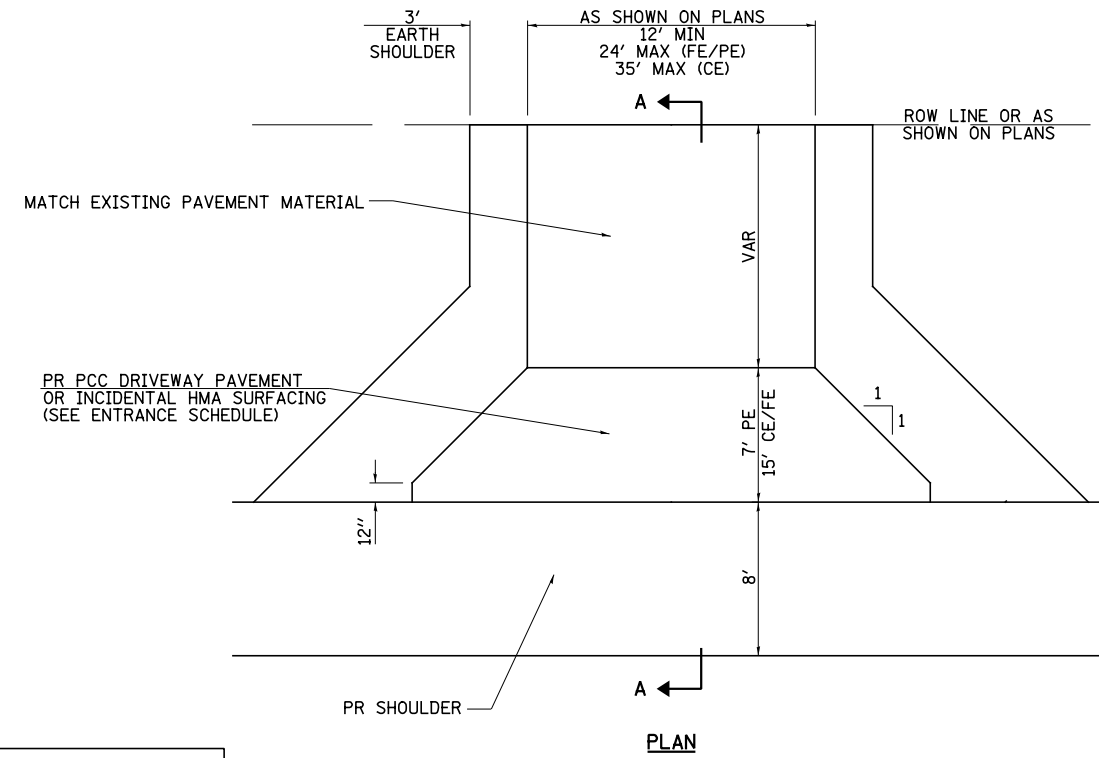
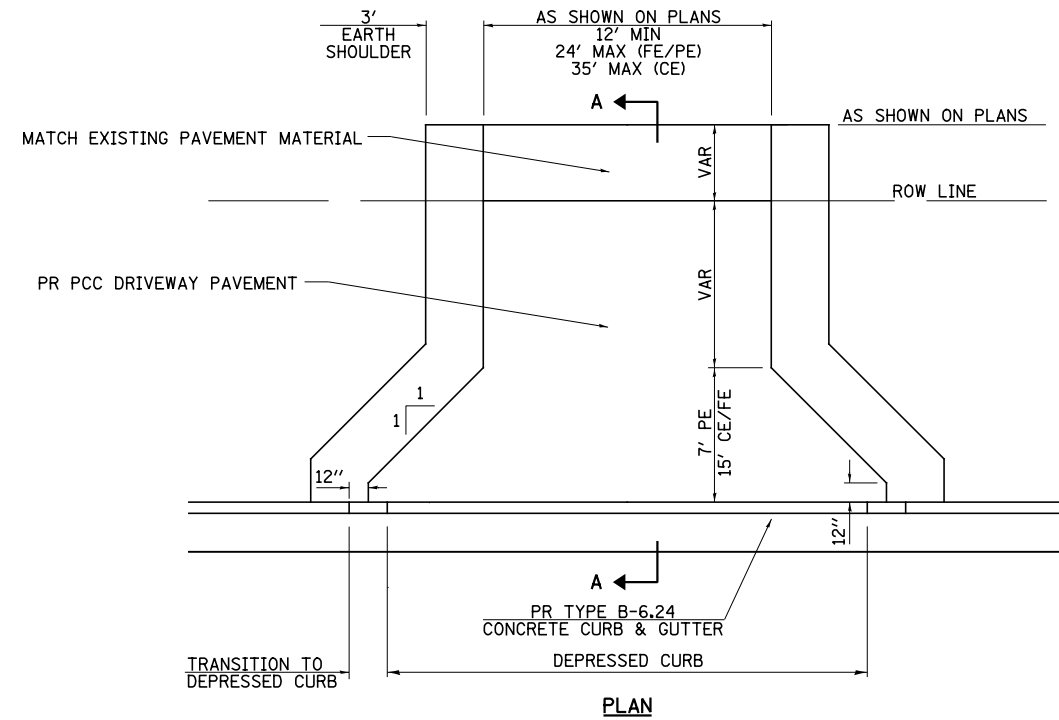
MISCELLANEOUS PAVEMENT DETAILS

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PLOT DATE = 8/6/2013		DATE - 7/15/2013	REVISED -

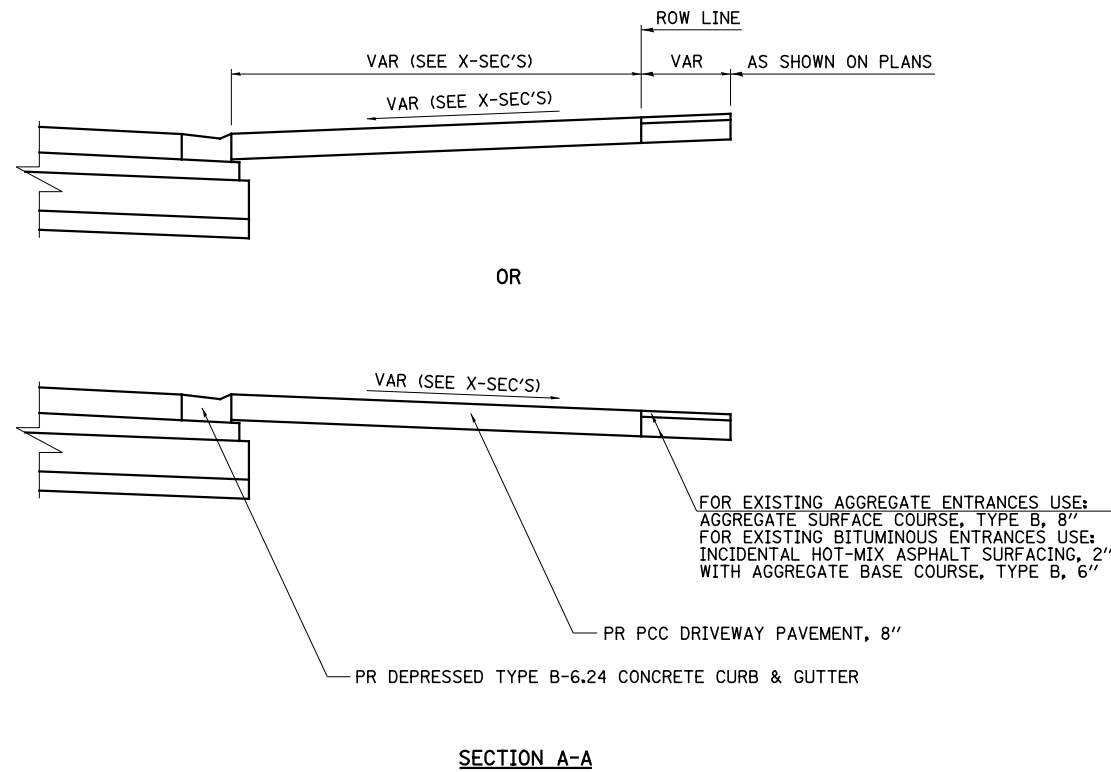
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

IL. RTE. 47 DETAILS	
SCALE: N/A	SHEET NO. 13 OF 31 SHEETS
STA. N/A	TO STA. N/A

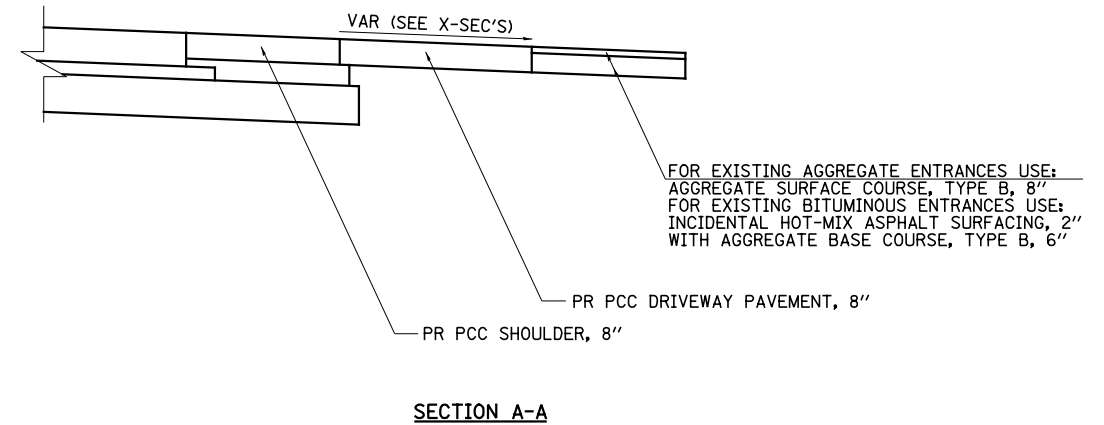
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	(110)R, BR & BR-1	GRUNDY	644	463
CONTRACT NO. 66883				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



NOTE: SEE PLAN VIEW FOR DRIVEWAY CONSTRUCTION LIMITS.



ENTRANCES ADJACENT TO CURB & GUTTER



ENTRANCES ADJACENT TO SHOULDER

ENTRANCES ADJACENT TO CURB & GUTTER

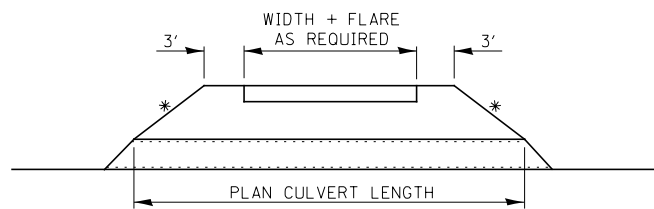
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	PLOT SCALE = 2.000' / 1" =	CHECKED - DJD	REVISED -
	PLOT DATE = 8/6/2013	DATE - 7/15/2013	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL. RTE. 47
DETAILS

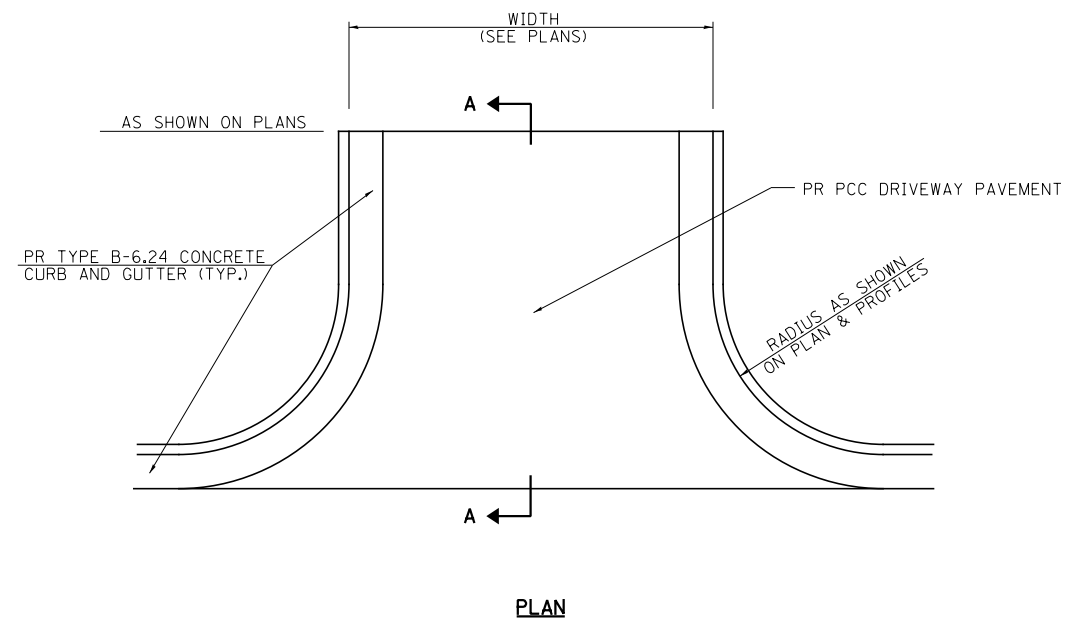
SCALE: N/A SHEET NO. 14 OF 31 SHEETS STA. N/A TO STA. N/A

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	(110)R, BR & BR-1	GRUNDY	644	464
CONTRACT NO. 66883				
ILLINOIS FED. AID PROJECT				

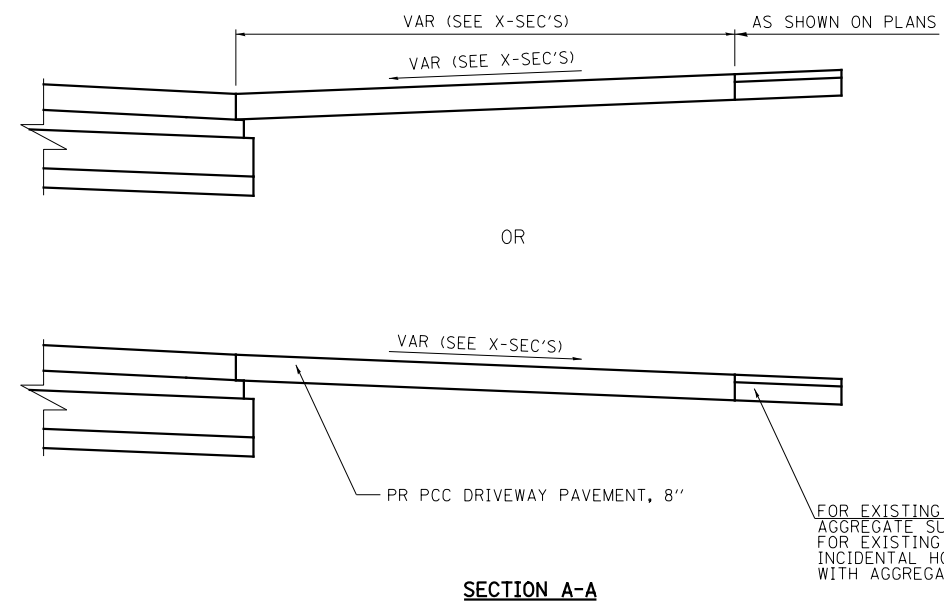


* 1:4 FROM SOUTH PROJECT LIMITS TO STA. 6186+00.
 1:6 FROM STA. 6186+00 TO NORTH PROJECT LIMITS.

ENTRANCE CULVERT DETAIL



PLAN



SECTION A-A

COMMERCIAL ENTRANCES ADJACENT TO CURB & GUTTER WITH CURB & GUTTER

ENTRANCE DETAILS

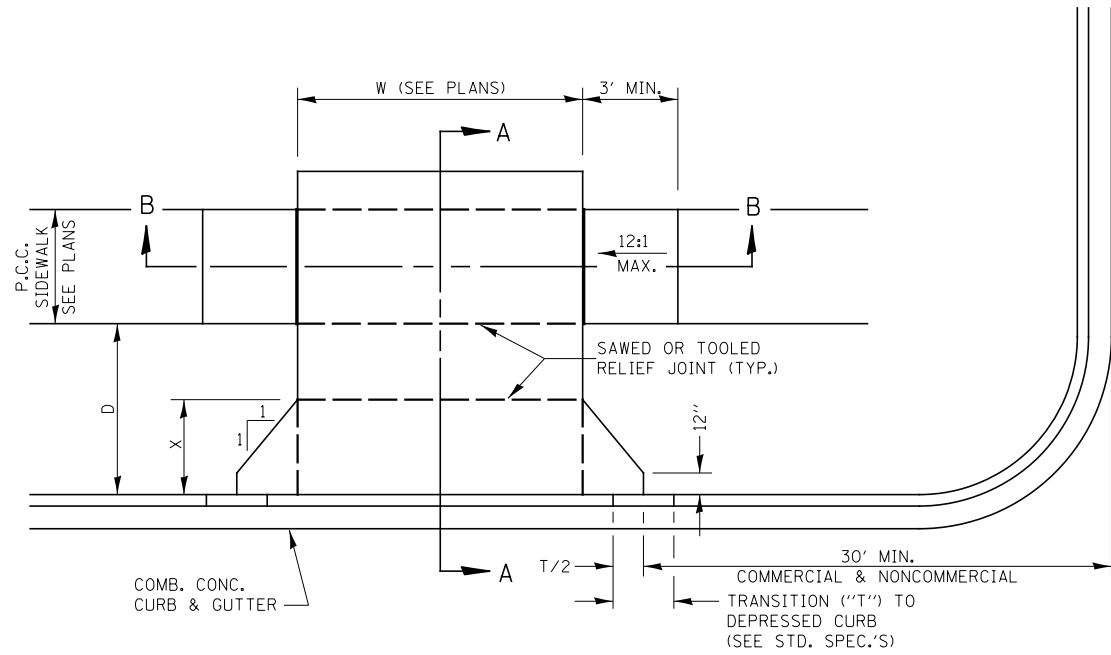
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

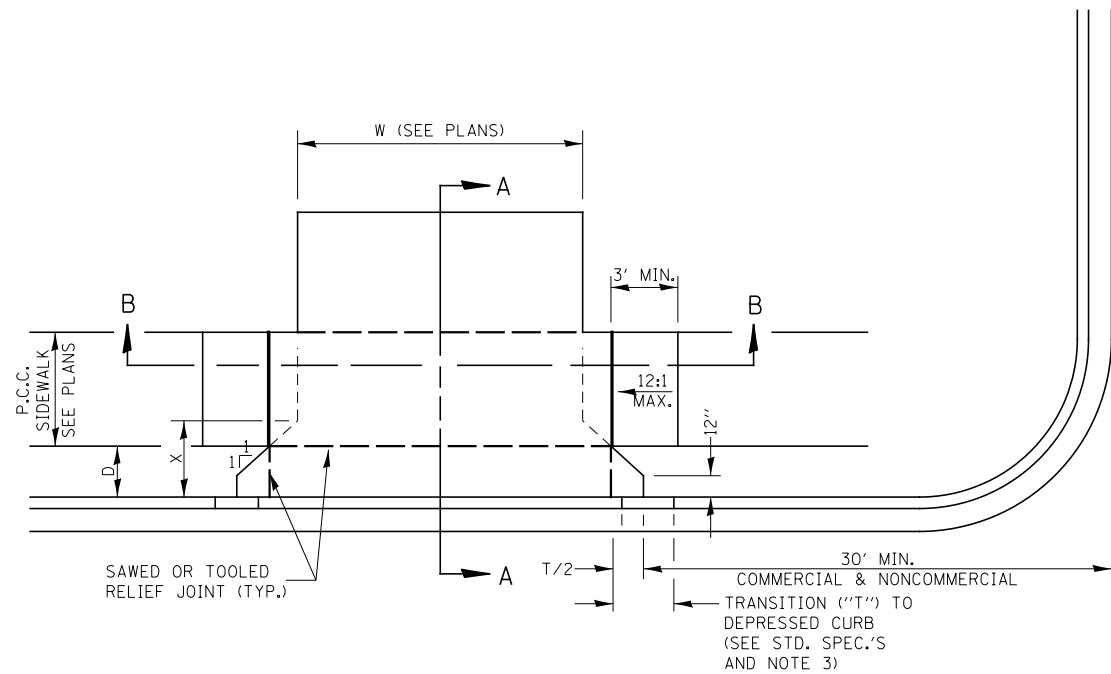
**IL. RTE. 47
 DETAILS**

SCALE: N/A SHEET NO. 15 OF 31 SHEETS STA. N/A TO STA. N/A

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	(110)R, BR & BR-1	GRUNDY	644	465
CONTRACT NO. 66883				
ILLINOIS FED. AID PROJECT				



CASE I (D > X)

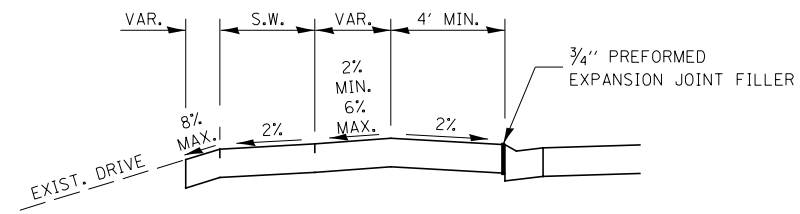


CASE I (D < X)

GENERAL NOTES:

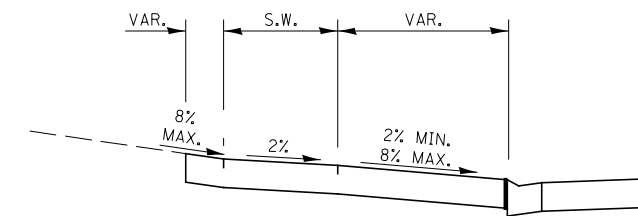
1. X = 7' (NON-COMMERCIAL) X = 15' (COMMERCIAL)
2. COST OF EXPANSION JOINTS AND RELIEF JOINTS SHALL BE INCLUDED IN THE COST OF THE P.C.C. DRIVEWAY PAVEMENT.
3. AS THE DIMENSION "D" APPROACHES ZERO, THE TRANSITION TO DEPRESSED CURB SHALL BE NO STEEPER THAN 12:1

ENTRANCE DETAILS

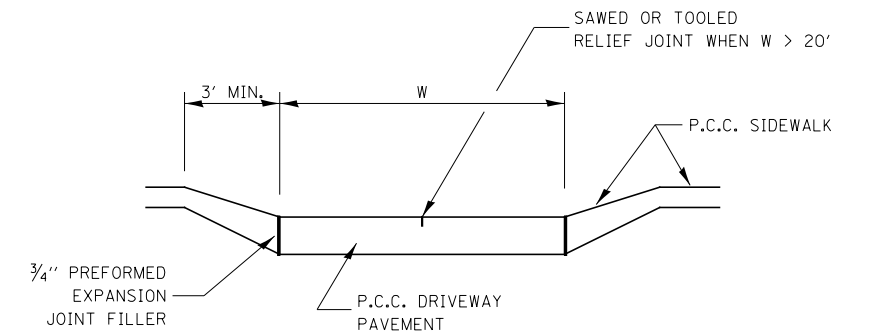


**DEPRESSED ENTRANCE *
SECTION A-A**

*(SEE X-SECTIONS FOR ENTRANCE PROFILE.)

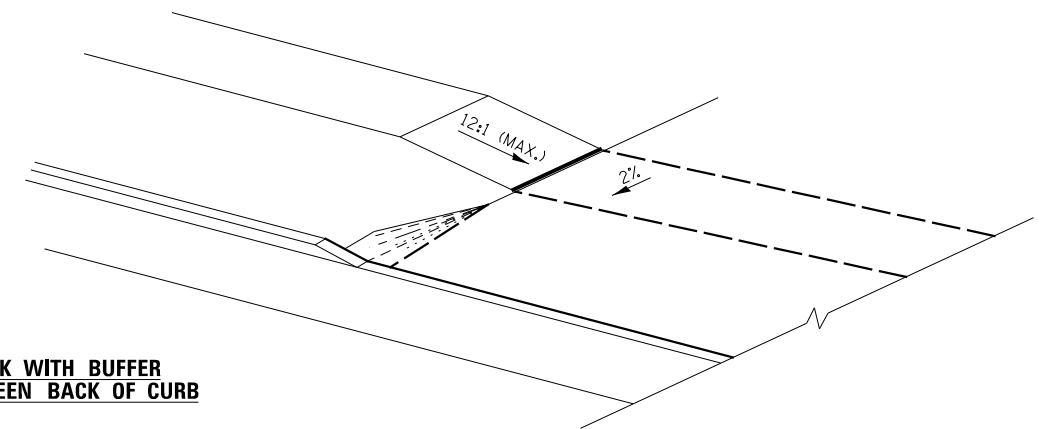


**ELEVATED ENTRANCE *
SECTION A-A**

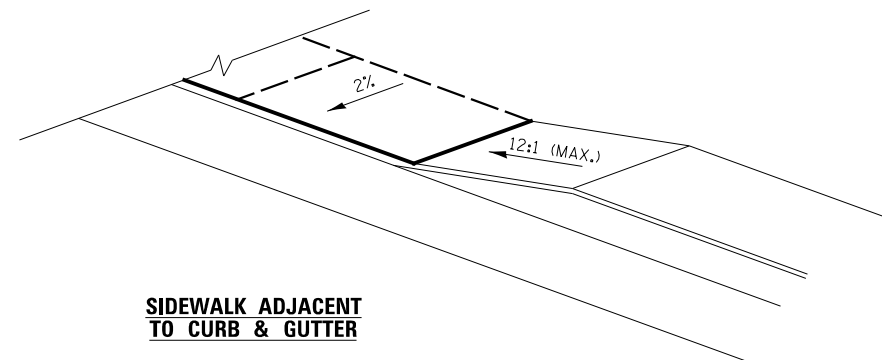


SECTION B-B

**SIDEWALK WITH BUFFER
AREA BETWEEN BACK OF CURB**



**SIDEWALK ADJACENT
TO CURB & GUTTER**



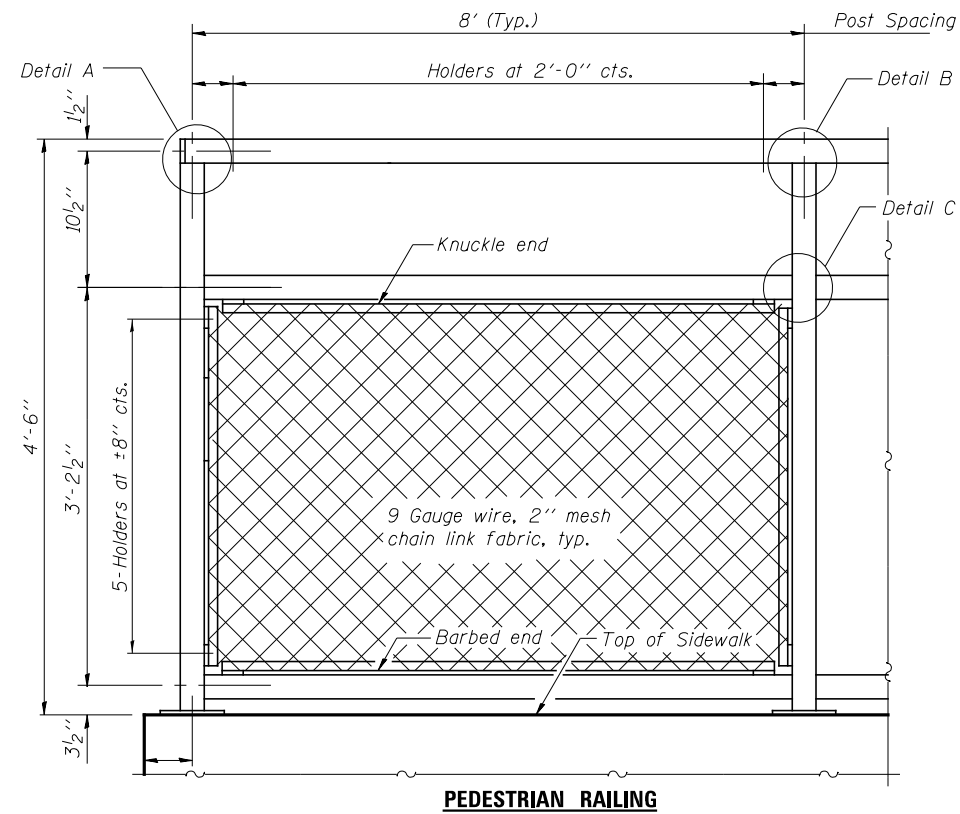
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PLOT DATE = 8/6/2013		CHECKED - DJD	REVISED -
		DATE - 7/15/2013	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

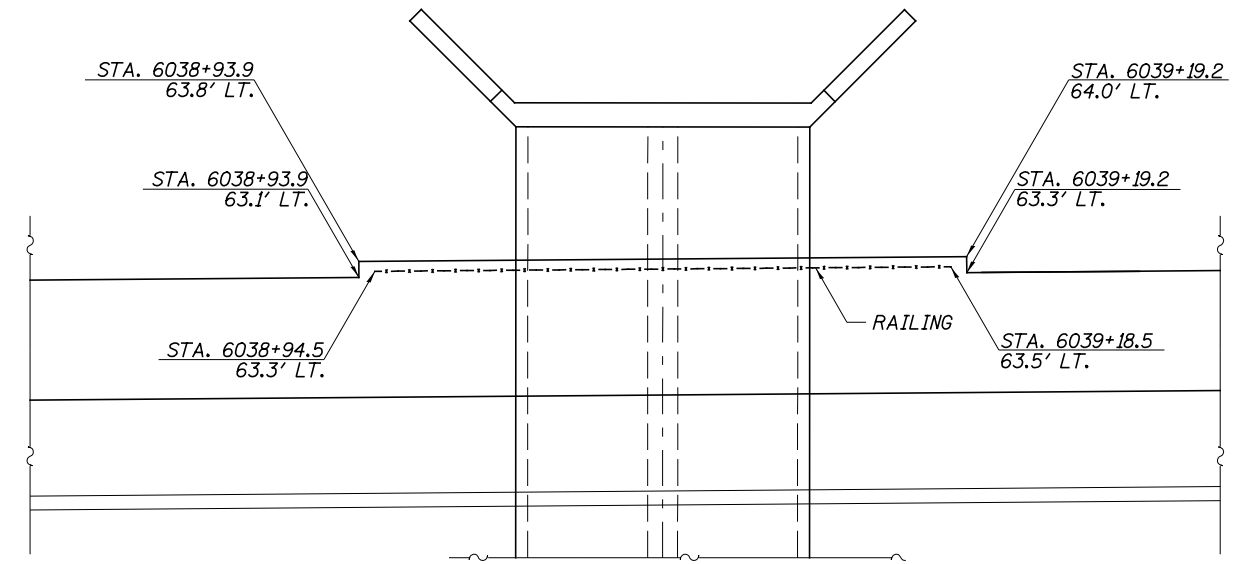
**IL. RTE. 47
DETAILS**

SCALE: N/A SHEET NO. 16 OF 31 SHEETS STA. N/A TO STA. N/A

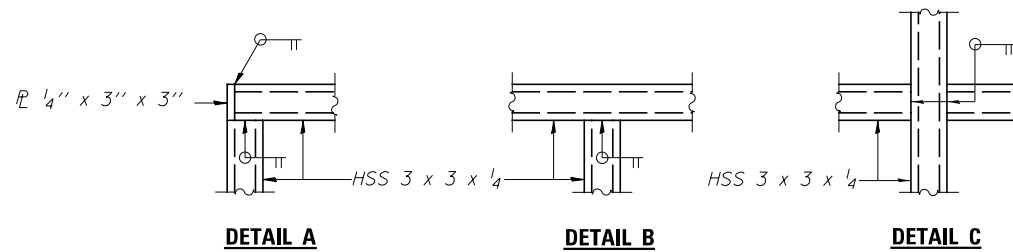
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	(110)R, BR & BR-1	GRUNDY	644	466
CONTRACT NO. 66883				
ILLINOIS FED. AID PROJECT				



PEDESTRIAN RAILING



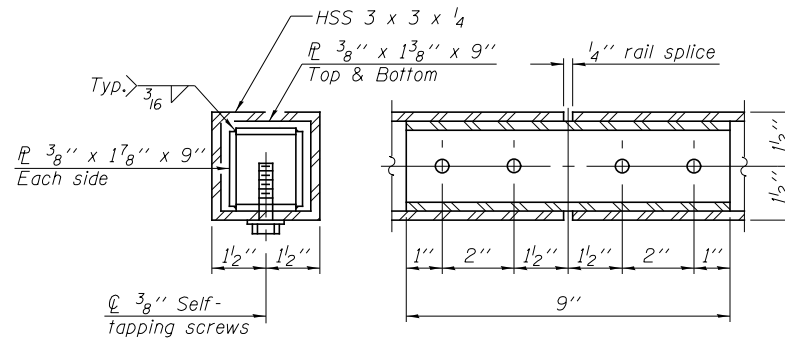
SIDEWALK PLAN



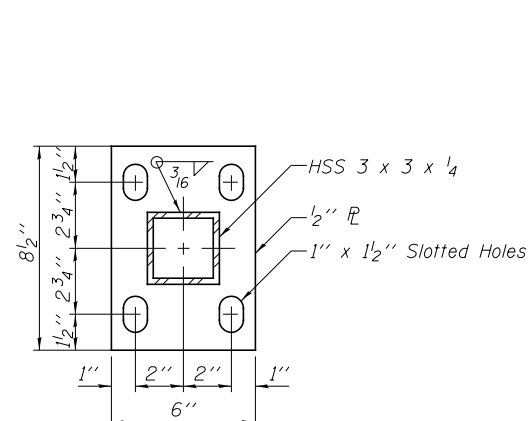
DETAIL A

DETAIL B

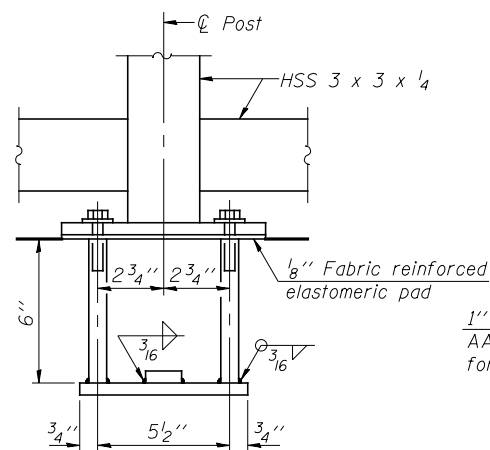
DETAIL C



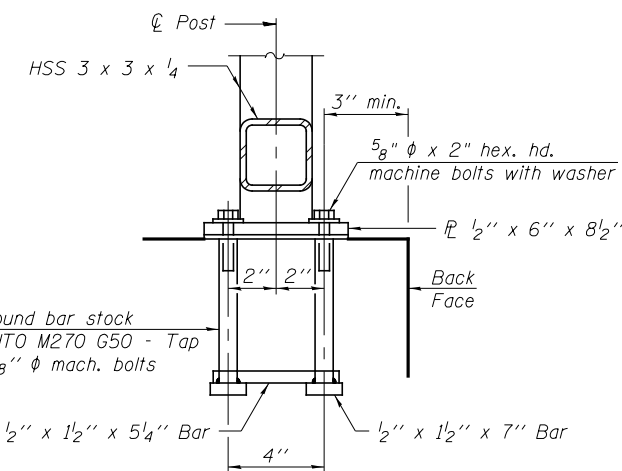
RAIL SPLICE



BASE PLATE

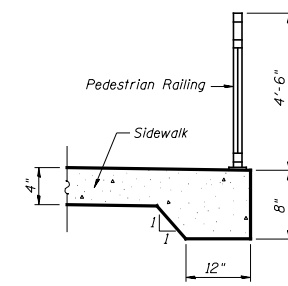


ANCHOR BOLT DETAILS



In lieu of the cast-in-place anchor device shown, the Contractor has the option of drilling and setting 5/8" diameter anchor rods according to Article 509.06 of the Standard Specifications. Embedment shall be according to the manufacturer's specifications.

PEDESTRIAN RAILING DETAILS



SECTION THRU SIDEWALK

NOTES

Railing shall be according to Section 509 of the Standard Specifications, except as noted, and will be paid for at the Contract Unit Price per foot for Pedestrian Railing.
 Hollow structural steel tubing shall conform to the requirements of ASTM designation A 500, Grade B, structural steel tubing.
 All other steel shapes and plates shall conform to the requirements of AASHTO M 270M Grade 250.
 All sidewalk will be paid for as P.C.C. sidewalk, 4" including the outside 12" wide by 8" thick section that accommodates the pedestrian railing.
 All steel rail elements shall be galvanized according to Article 509.05 of the Standard Specifications.

BILL OF MATERIAL

Item	Unit	Quantity
Pedestrian Railing	FOOT	24

FILE NAME =	USER NAME = bdecreane	DESIGNED - LDZ	REVISED -
V:\3195\66883 (South Section)\CADD Sheets\0366883-sht-details-17.dgn		DRAWN - SGM	REVISED -
	PLOT SCALE = 2.0000' / in.	CHECKED - DJD	REVISED -
	PLOT DATE = 8/6/2013	DATE - 7/15/2013	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**IL. RTE. 47
DETAILS**

SCALE: N/A SHEET NO. 17 OF 31 SHEETS STA. N/A TO STA. N/A

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	(110)R, BR & BR-1	GRUNDY	644	467
CONTRACT NO. 66883				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

GENERAL

CLASS SI CONCRETE SHALL BE USED THROUGHOUT.

THIS SPECIFICATION COVERS SLOTTED DRAIN USED FOR THE REMOVAL OF WATER AS SHOWN ON THE PLANS.

THE SLOTTED DRAIN SHALL BE CORRUGATED PIPE CULVERT WITH INTEGRAL SLOTTED DRAINS.

BEFORE PLACING THE CONCRETE ADJACENT TO THE PIPE, THE SLOT SHALL BE COVERED BY EITHER THIN, FLAT METAL SHEETING OR BY A BOARD NOTCHED TO FIT OVER THE GRATE BARS. THIS COVERING MUST FIT CLOSELY IN THE SLOT TO PREVENT ENTRY OF CONCRETE INTO THE PIPE. PAVING OVER THE SLOTTED DRAIN WILL THEN BE ONE CONTINUOUS OPERATION OVER THE PROTECTED DRAIN. THE PROTECTION FOR THE DRAIN SLOT SHALL THEN BE REMOVED. THE PIPE SHALL DRAIN INTO THE SIDE OF THE INLET. THE OPENING WHERE THE SLOT IS REMOVED SHALL BE COVERED TO PREVENT CONCRETE FROM ENTERING THE PIPE.

THE CORRUGATED STEEL PIPE USED IN THE SLOTTED DRAIN SHALL MEET THE REQUIREMENTS OF AASHTO M36/ ASTM A7860.

THE CMP SHALL BE ALUMINIZED STEEL TYPE 2.

THE DIAMETER AND GAGE SHALL BE AS SHOWN ON THE PLAN.

STEEL GRATING SHALL MEET THE GALVANIZING REQUIREMENTS OF AASHTO M111.

THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER FOOT FOR SLOTTED DRAIN 15" WITH 1 3/4" SLOT, AND SHALL INCLUDE ELBOWS, DRILLING HOLES IN GRATING, SUPPLYING AND PLACING A1 BARS, AND CONCRETE AND GRATING FOR DEPTH SPECIFIED ON PLANS.

USE APPROVED END CAP TO PREVENT CONCRETE ENTRY INTO THE PIPE DURING GUTTER CONSTRUCTION ON THE UPSTREAM END OF THE PIPE.

CONNECTIONS

THE CORRUGATED STEEL PIPE SHALL HAVE A MINIMUM OF TWO REROLLED ANNULAR ENDS.

THE SLOTTED DRAIN BANDS SHALL BE MODIFIED HUGGER BANDS TO SECURE THE PIPE AND PREVENT INFILTRATION OF THE BACKFILL.

WHEN THE SLOTTED DRAIN IS Banded TOGETHER, THE ADJACENT GRATES SHALL HAVE A MAXIMUM 3" GAP.

GRATES

THE GRATES SHALL BE MANUFACTURED FROM ASTM A670, GRADE 36 STEEL. THE SPACERS AND BEARING BARS (SIDES) SHALL BE 3/16" MATERIAL ±0.008".

THE SPACERS SHALL BE ON 6" CENTERS AND WELDED ON BOTH SIDES TO EACH BEARING BAR (SIDES) WITH FOUR (4) 1/4" LONG 3/16" FILLET WELDS ON EACH SIDE OF THE BEARING BAR.

THE PLATE EXTENDER SHALL BE 7 GAGE STEEL MEETING ASTM A761.

THE ENGINEER MAY CALL FOR TENSILE STRENGTH TESTS ON THE GRATE IF THE GRATE IS NOT IN COMPLIANCE WITH THE ABOVE SPACER SPECIFICATIONS. IF TENSILE STRENGTH TESTS ARE CALLED FOR, MINIMUM RESULTS FOR AN IN-PLACE SPACER PULLED PERPENDICULAR TO THE BEARING BAR SHALL BE:
 T = 12,000 POUNDS FOR 2 1/2" GRATE
 T = 15,000 POUNDS FOR 6" GRATE

GALVANIZING

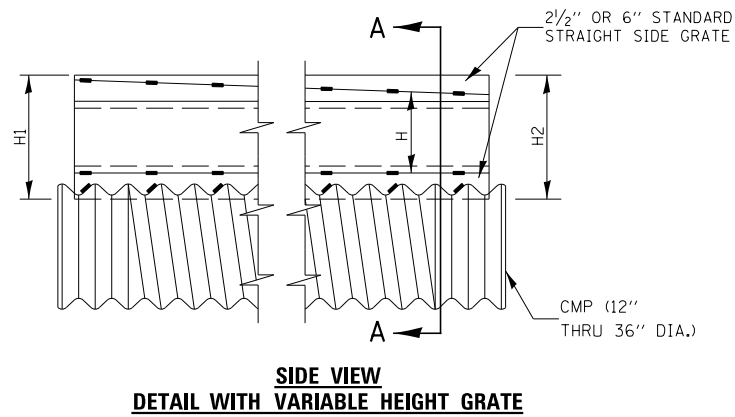
THE GRATE AND PLATE EXTENDERS SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A123 EXCEPT WITH A 2 OZ. GALVANIZED COATING.

GRATE ATTACHED TO CSP

THE GRATE SHALL BE FILLET WELDED WITH A MINIMUM WELD 1" LONG TO THE CSP ON EACH SIDE OF THE GRATE AT EVERY OTHER CORRUGATION.

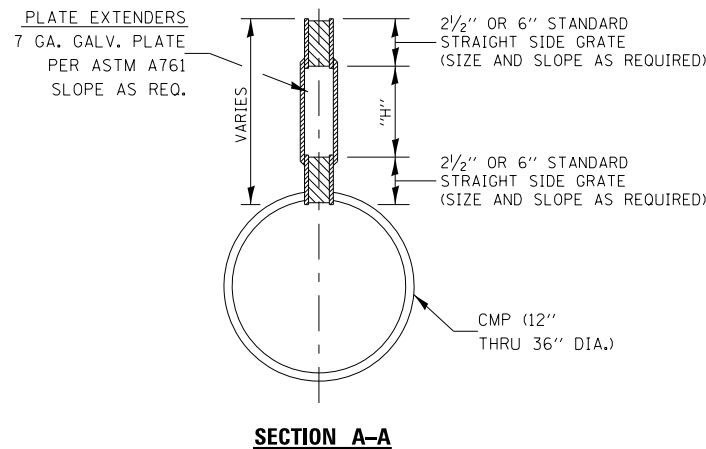
TOLERANCES - FINISHED SLOTTED DRAIN - 20' LENGTH

VERTICAL BOW = ±3/8"
 HORIZONTAL BOW = ±5/8"
 TWIST = ±1/2"



LOADING CONDITION	MAX. EXTENDER HEIGHT - "H"
H20/H25 • 750 PSI CONCRETE	19"

• 125 PSI TIRE PRESSURE



GAGE OF PIPE	DIAMETER OF PIPE					
	12"	15"	18"	24"	30"	36"
16	X	X	X	X	X	X
14	X	X	X	X	X	X
12	N.A.	N.A.	N.A.	N.A.	X	X

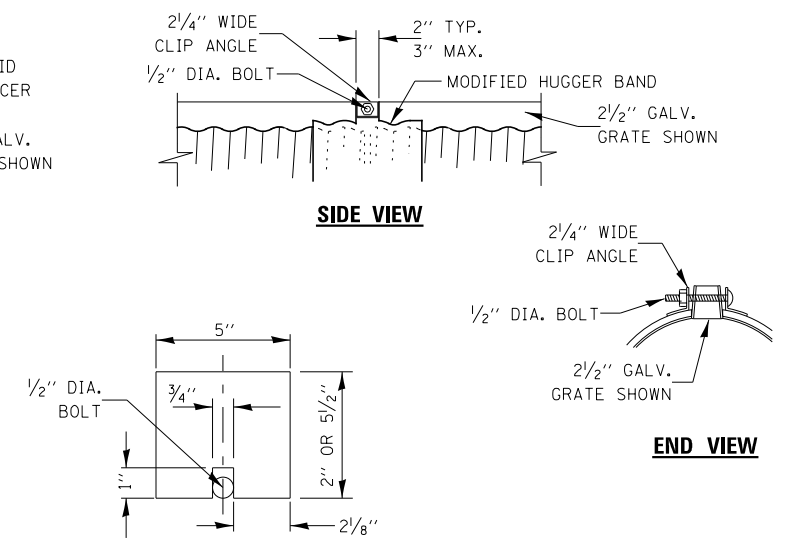
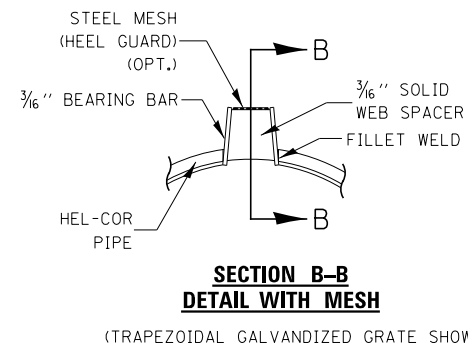
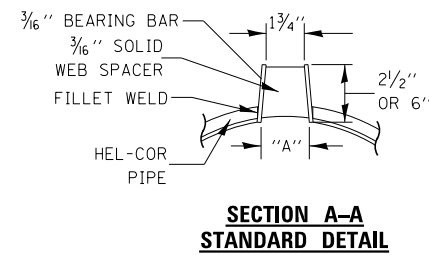
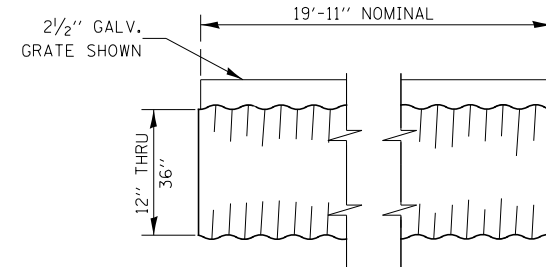
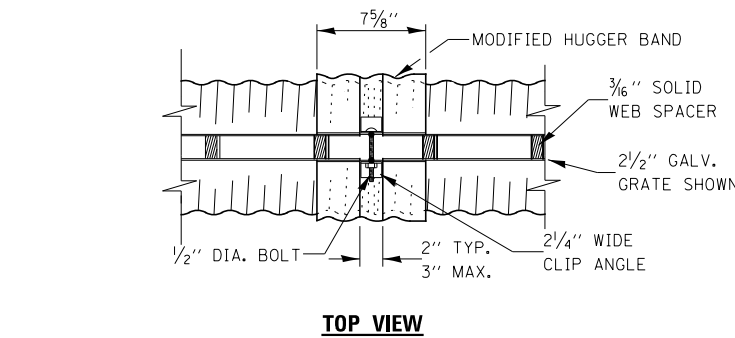
GRATE TYPE	"A"
VERT 2 1/2"	1 3/4"
VERT 6"	1 3/4"
TRAP 2 1/2"	2 1/4"
TRAP 6"	3"

VERT = VERTICAL
 TRAP = TRAPIZOIDAL

SLOTTED DRAIN NOTES

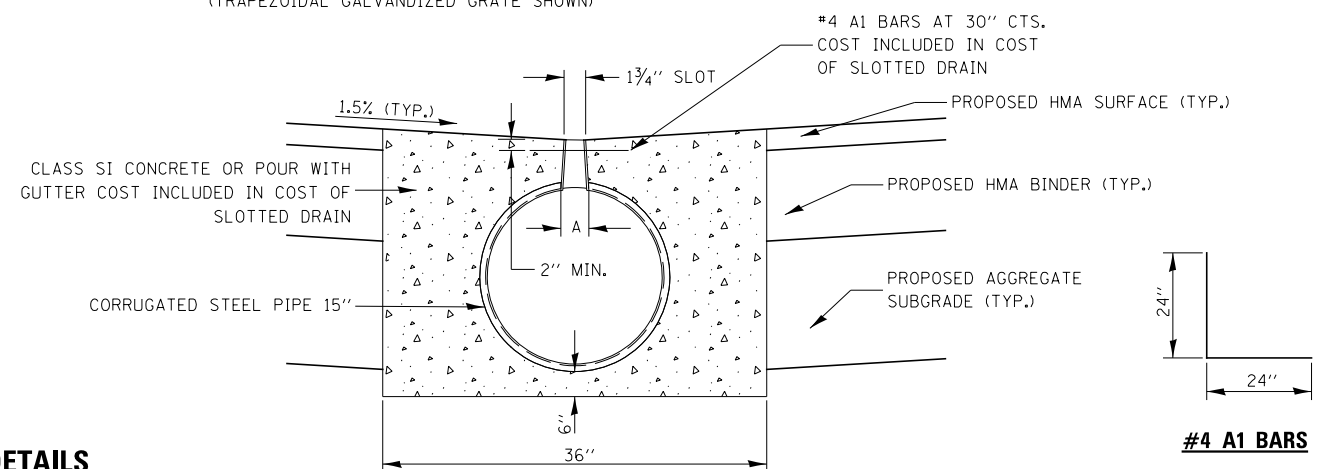
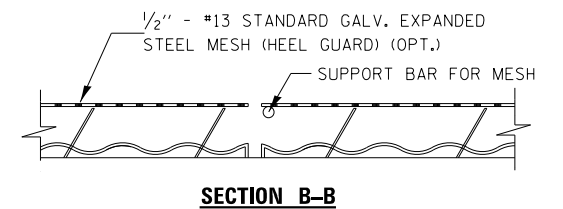
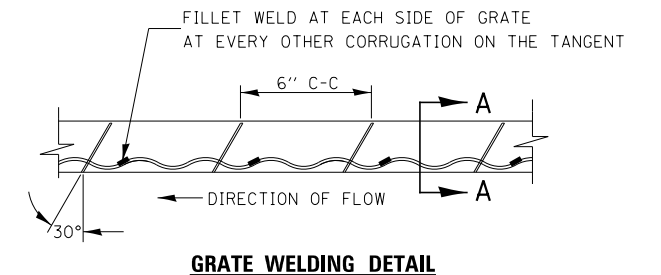
- GRATING IS AVAILABLE IN DEPTHS OF 2 1/2" AND 6".
- VERTICAL GRATING (STRAIGHT SIDES) WITH VERTICAL SPACERS IS ALSO AVAILABLE.
- FOR 6" VERTICAL & TRAPEZOIDAL REQUIREMENTS, THE SLOTTED DRAIN BAND MAY BE FURNISHED WITH THE 4: TECHCO BAND ANGLE.
- DIMENSIONS ARE SUBJECT TO MANUFACTURING TOLERANCES.
- REFERENCE CONTECH BAND MANUAL DWG. NO. 1002697 FOR BAND DETAILS.
- REFERENCE CONTECH SLOTTED DRAIN DWG. NO. 1002697.
- DIMENSIONS FOR H1 AND H2 AS REQUIRED.
- H1 AND H2 MEASURED FROM TOP OF GRATE TO BOTTOM OF GRATE.

SLOTTED DRAIN PIPE DETAILS



GAP PLATE (OPTIONAL)

MAY BE PLACED DIRECTLY OVER BAND BOLT TO PROVIDE CONTINUOUS FORM FOR GROUTING



FILE NAME =	USER NAME = bdecreane	DESIGNED - LDZ	REVISED -
V:\3195\66883 (South Section)\CA00 Sheets\0366883-sht-details-18.dgn		DRAWN - SGM	REVISED -
	PLOT SCALE = 2.0000' / in.	CHECKED - DJD	REVISED -
	PLOT DATE = 8/6/2013	DATE - 7/15/2013	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

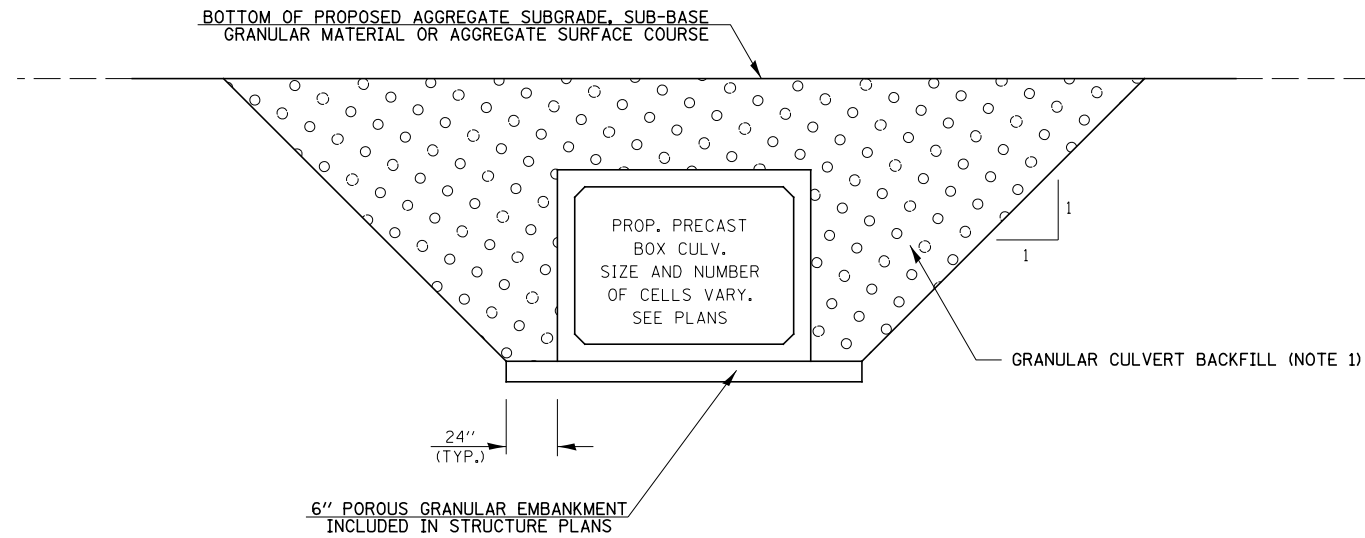
IL. RTE. 47
 DETAILS

SCALE: N/A SHEET NO. 18 OF 31 SHEETS STA. N/A TO STA. N/A

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	(110)R, BR & BR-1	GRUNDY	644	468

CONTRACT NO. 66883

FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT



SECTION THROUGH PRECAST BOX CULVERT

**POROUS GRANULAR EMBANKMENT DETAIL
AT PROPOSED BOX CULVERTS**

BOX CULVERT BACKFILLING DETAIL

FILE NAME =	USER NAME = bdecreene	DESIGNED - LDZ	REVISED -
V:\3195\66883 (South Section)\CADD Sheets\0366883-shd-details-19.dgn		DRAWN - SGM	REVISED -
	PLOT SCALE = 2.000' / in.	CHECKED - DJD	REVISED -
	PLOT DATE = 8/6/2013	DATE - 7/15/2013	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

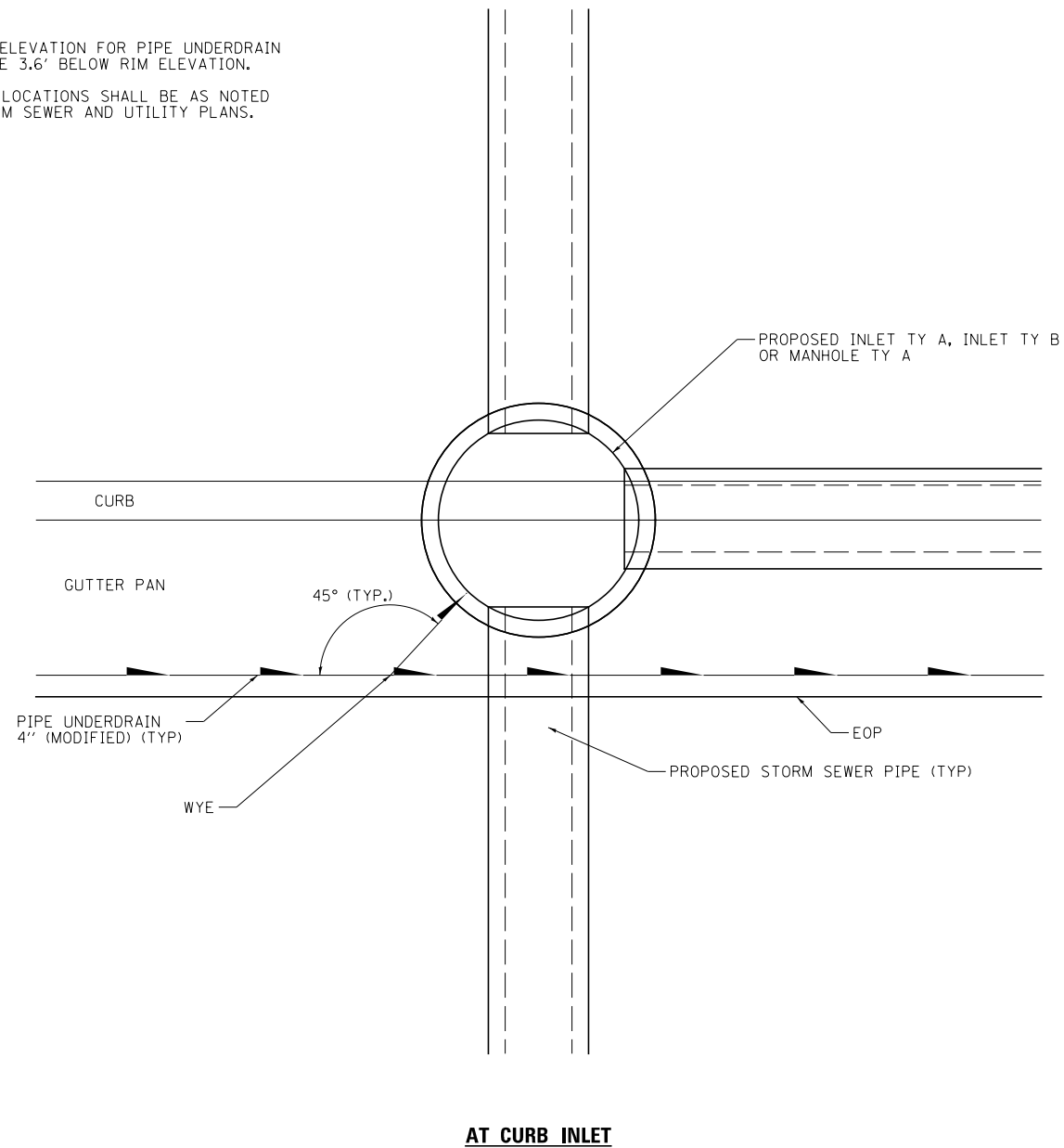
**IL. RTE. 47
DETAILS**

SCALE: N/A SHEET NO. 19 OF 31 SHEETS STA. N/A TO STA. N/A

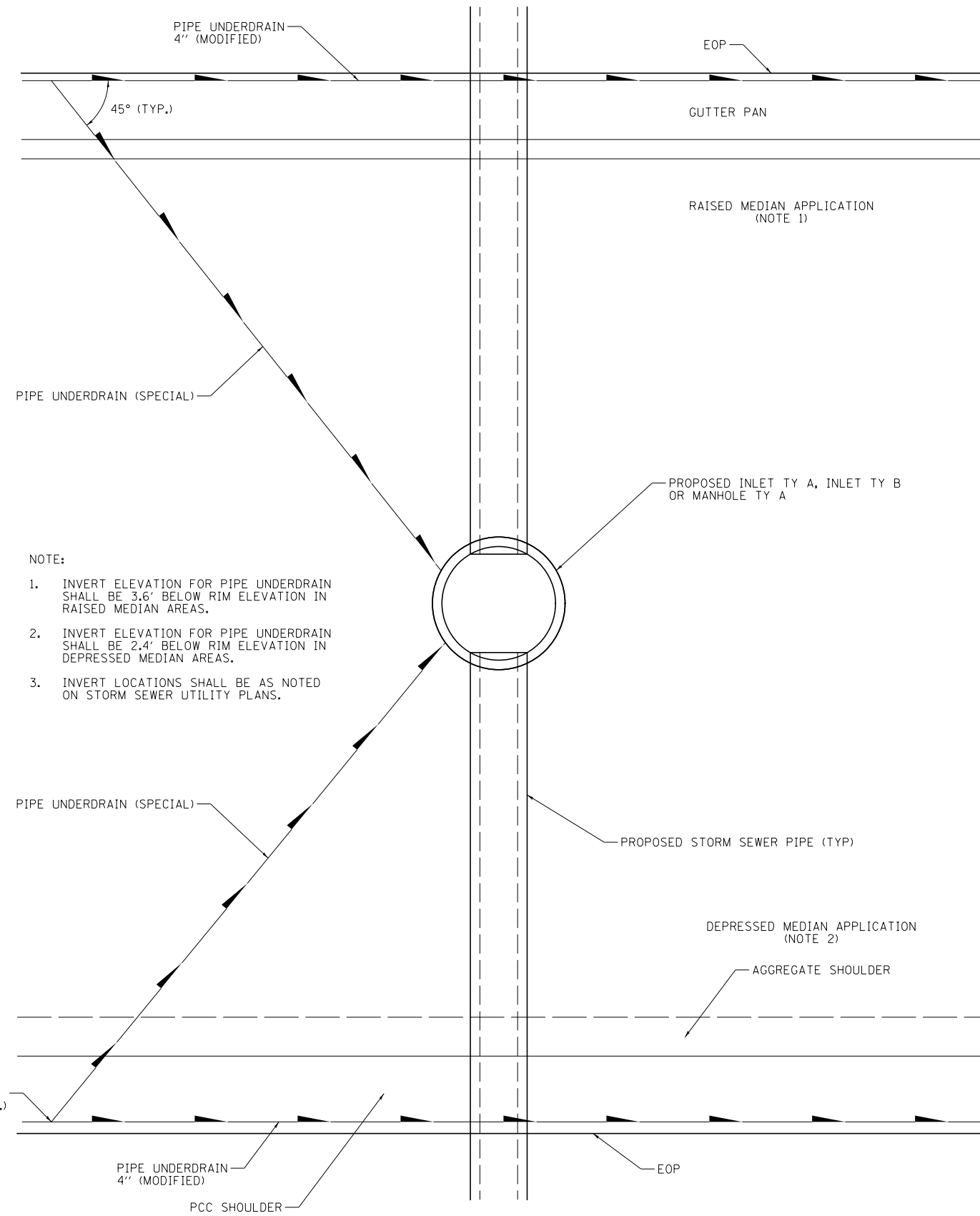
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	(110)R, BR & BR-1	GRUNDY	644	469
CONTRACT NO. 66883			ILLINOIS FED. AID PROJECT	

NOTE:

1. INVERT ELEVATION FOR PIPE UNDERDRAIN SHALL BE 3.6' BELOW RIM ELEVATION.
2. INVERT LOCATIONS SHALL BE AS NOTED ON STORM SEWER AND UTILITY PLANS.



AT CURB INLET



AT MEDIAN INLET

NOTE:

1. INVERT ELEVATION FOR PIPE UNDERDRAIN SHALL BE 3.6' BELOW RIM ELEVATION IN RAISED MEDIAN AREAS.
2. INVERT ELEVATION FOR PIPE UNDERDRAIN SHALL BE 2.4' BELOW RIM ELEVATION IN DEPRESSED MEDIAN AREAS.
3. INVERT LOCATIONS SHALL BE AS NOTED ON STORM SEWER UTILITY PLANS.

LONGITUDINAL PIPE UNDERDRAIN OUTLET DETAILS

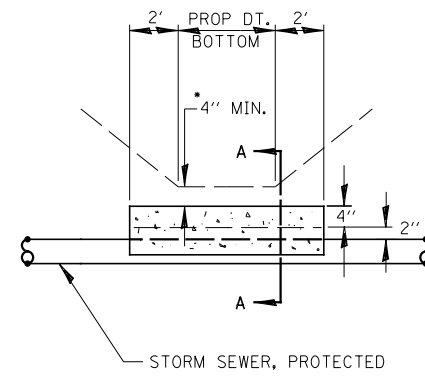
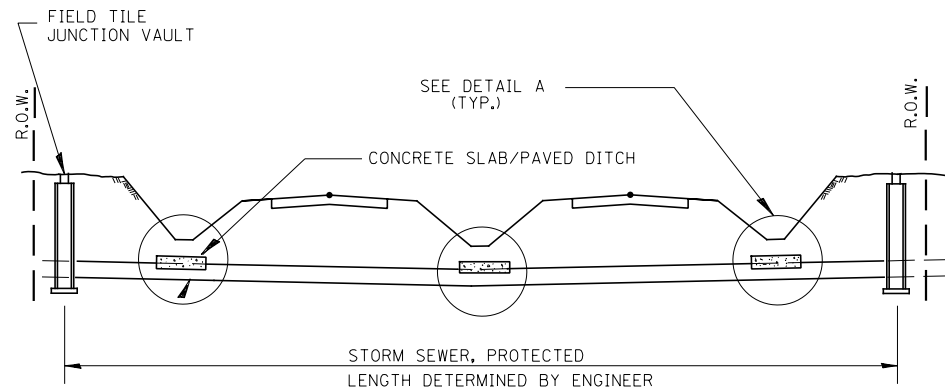
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	PLOT SCALE = 2.0000' / in.	CHECKED - DJD	REVISED -
	PLOT DATE = 8/6/2013	DATE - 7/15/2013	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**IL. RTE. 47
DETAILS**

SCALE: N/A SHEET NO. 20 OF 31 SHEETS STA. N/A TO STA. N/A

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	(110)R, BR & BR-1	GRUNDY	644	470
CONTRACT NO. 66883				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



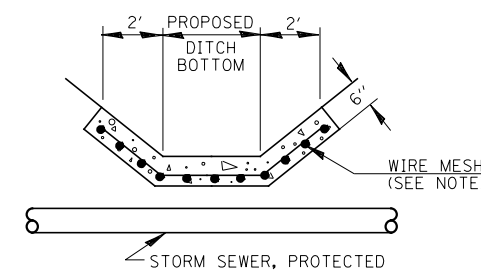
DETAIL A

NO SCALE

* IF A 4" COVER CAN NOT BE PROVIDED A PAVED DITCH SHALL BE CONSTRUCTED AS SHOWN IN DETAIL B.

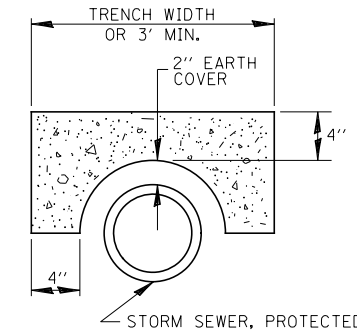
NOTES

1. WIDTH OF CONCRETE SLAB SHALL BE THE SAME AS THE TRENCH WIDTH IN ACCORDANCE WITH SECTION 550 OF THE STD. SPECIFICATIONS, OR 3' MIN.
2. CONCRETE FOR SLAB, HEADWALL AND PAVED DITCH SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER CUBIC YARD FOR "MISCELLANEOUS CONCRETE."
3. COST OF FURNISHING AND INSTALLING WIRE MESH SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE PER CUBIC YARD FOR MISCELLANEOUS CONCRETE. WIRE MESH TO WEIGH NOT LESS THAN 58# PER 100 SQ. FT.



DETAIL B

NO SCALE

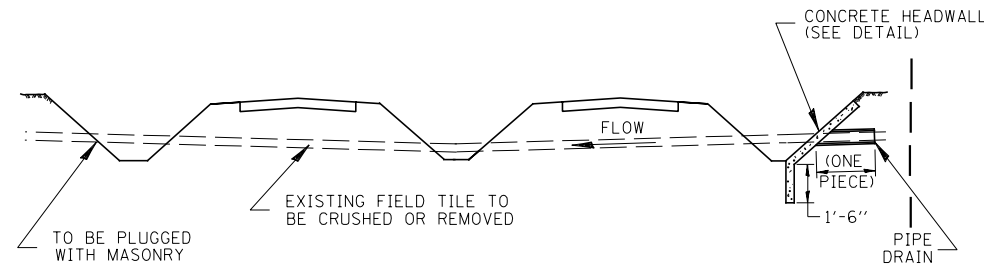


SECTION A-A

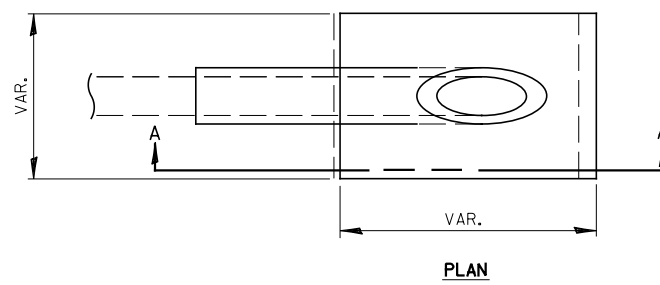
ALTERNATE MATERIALS FOR WALLS	T
PRECAST REINFORCED CONCRETE RISERS	4"
CONCRETE MASONRY UNIT	5"
MONOLITHIC CONCRETE	6"
BUILDING BRICK, GRADE SW FROM CLAY OR SHALE	8"
CONCRETE BUILDING BRICK, GRADE A	8"

NOTES

1. THE CONTRACT UNIT PRICE FOR FIELD TILE JUNCTION VAULT SHALL INCLUDE THE COST OF FURNISHING AND PLACING THE FRAME AND GRATE OR PRECAST CONCRETE LID AND WHEN REQUIRED, THE SAND CUSHION.
2. ALL FIELD TILE JUNCTION VAULTS SHALL BE 2'-0" IN DIAMETER UNLESS OTHERWISE NOTED ON THE PLANS.

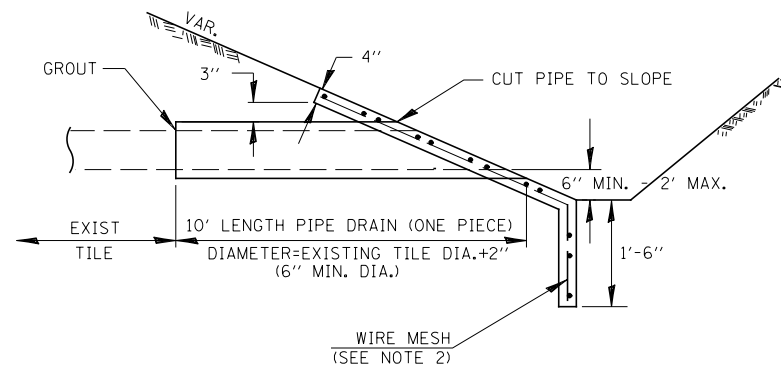


FIELD TILE REPLACEMENT



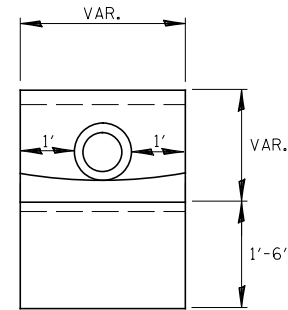
NOTES

1. ANY STORM SEWER SPECIAL OR BACKSLOPE DRAIN OUTLET INTO A DITCH SHALL HAVE A HEADWALL BUILT IN ACCORDANCE WITH THIS DETAIL.
2. COST OF FURNISHING AND INSTALLING WIRE MESH SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE PER CUBIC YARD FOR MISCELLANEOUS CONCRETE. WIRE MESH TO WEIGH NOT LESS THAN 58# PER 100 SQ. FT.

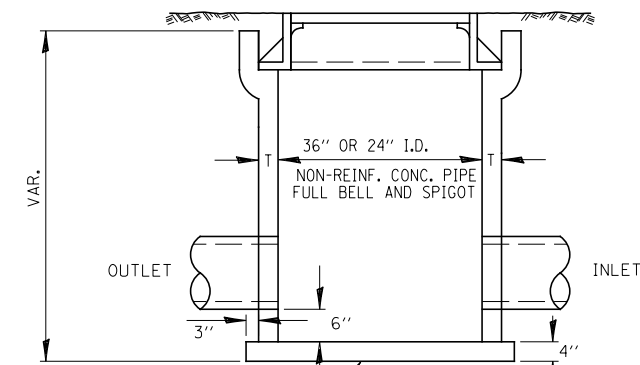


SECTION A-A

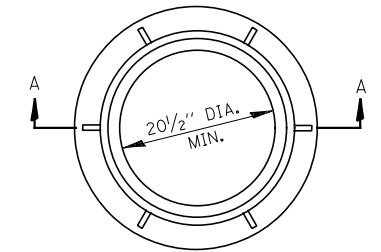
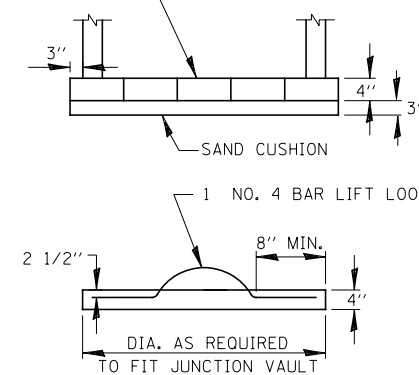
CLASS SI CONCRETE HEADWALLS



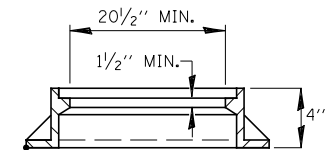
END VIEW



CLASS SI CONCRETE OR PRECAST REINFORCED CONCRETE SLABS NOT LESS THAN 12" WIDE



± 145#



SECTION A-A

FIELD TILE JUNCTION VAULT

TREATMENT OF EXISTING FIELD TILE DETAILS

FILE NAME =	USER NAME = bdecreene	DESIGNED - LDZ	REVISED -
V:\3195\66883 (South Section)\CADD Sheets\0366883-sht-details-21.dgn		DRAWN - SGM	REVISED -
PLOT SCALE = 2.000' / in.		CHECKED - DJD	REVISED -
PLOT DATE = 8/6/2013		DATE - 7/15/2013	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**IL. RTE. 47
DETAILS**

SCALE: N/A SHEET NO. 21 OF 31 SHEETS STA. N/A TO STA. N/A

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	(110)R, BR & BR-1	GRUNDY	644	471
CONTRACT NO. 66883				
ILLINOIS FED. AID PROJECT				

NOTES

THE REFERENCE MARKERS SHALL BE CONSTRUCTED BY POURING CLASS SI CONCRETE INTO HOLES PREPARED BY A POST HOLE DIGGER OR OTHER APPROVED METHODS. FORMS WILL NOT BE REQUIRED. PRECAST MARKERS OF THE SAME SIZE AND CONSTRUCTION MAY BE USED.

IN CULTIVATED FIELDS REFERENCE MARKERS SHALL BE PLACED TWO FEET BELOW THE GROUND SURFACE. IN FENCE LINES OR PROTECTED AREAS THE TOP SHALL BE PLACED AT GROUND LEVEL.

THE FOLLOWING WORK SHALL BE DONE UNDER THE DIRECTION OF A REGISTERED LAND SURVEYOR OF THE STATE OF ILLINOIS:

VERIFY AND TIE OFF ALL U.S. PUBLIC LAND SURVEY MONUMENTS, SHOWN IN THE PLANS, PRIOR TO CONSTRUCTION OPERATIONS. TIE POINTS SHALL BE SUFFICIENT IN NUMBER AND IN LOCATIONS AS NOT TO BE DISTURBED DURING CONSTRUCTION OPERATIONS.

AFTER CONSTRUCTION OPERATIONS ARE COMPLETE, INSTALL A PERMANENT SURVEY MARKER OF THE TYPE SPECIFIED TO REPLACE THE U.S. PUBLIC LAND SURVEY MONUMENT THAT WAS DISPLACED OR COVERED DURING CONSTRUCTION. THE LETTERING REFERRING TO THE STATE OF ILLINOIS AND DIVISION OF HIGHWAYS SHALL BE OMITTED FROM THE PERMANENT SURVEY MARKER AND THE MARKER SHALL BE MARKED AS DIRECTED BY THE ENGINEER.

SET FOUR CONCRETE REFERENCE MARKERS FOR EACH U.S. PUBLIC LAND SURVEY MONUMENT.

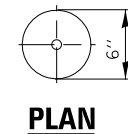
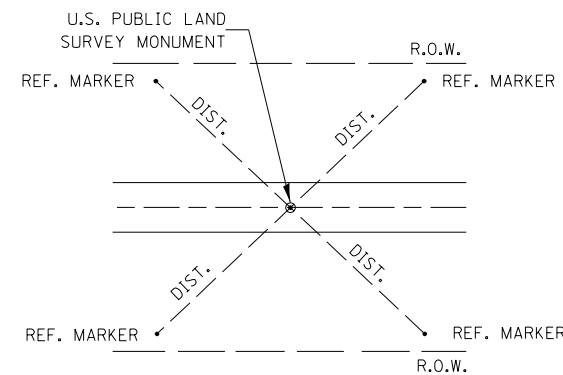
PREPARE MONUMENT RECORDS, FILE THE RECORDS AT THE COUNTY RECORDER'S OFFICE, AND PROVIDE A COPY TO THE DISTRICT OFFICE.

PERMANENT SURVEY MARKERS, OF THE TYPE SPECIFIED

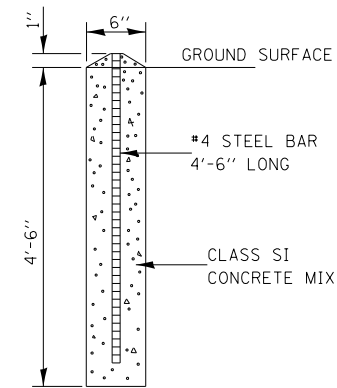
SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE, EACH, WHICH WILL BE PAYMENT IN FULL FOR FURNISHING, INSTALLING AND MARKING SAID MARKERS.

LAND SECTION MARKERS

SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE, EACH, WHICH WILL BE PAYMENT IN FULL FOR SETTING TIE POINTS, SETTING FOUR CONCRETE REFERENCE MARKERS, PREPARING MONUMENT RECORDS, RECORDING AT COUNTY RECORDER'S OFFICE AND PROVIDING A COPY TO THE DISTRICT OFFICE.



PLAN

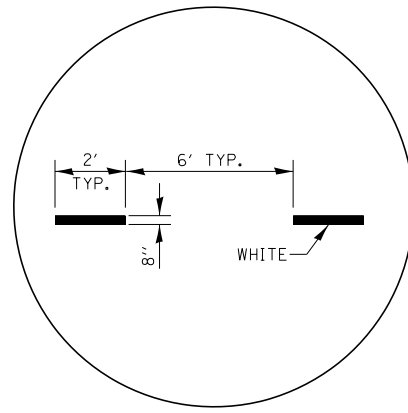


SECTION

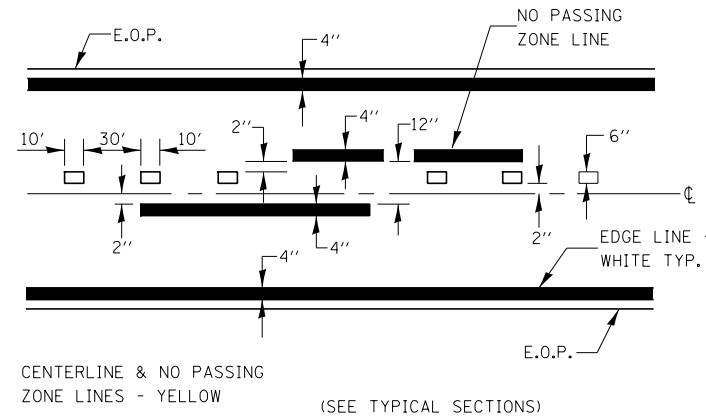
CONCRETE REFERENCE MARKER

LAND SECTION MARKER DETAILS

FILE NAME =	USER NAME = bdecreene	DESIGNED - LDZ	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL. RTE. 47 DETAILS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
V:\3195\66883 (South Section)\CADD Sheets\0366883-shd-details-22.dgn	DRAWN - SGM	REVISED -	326			(110)R, BR & BR-1	GRUNDY	644	472	
PLOT SCALE = 2.000' / in.	CHECKED - DJD	REVISED -	CONTRACT NO. 66883							
PLOT DATE = 8/6/2013	DATE - 7/15/2013	REVISED -	ILLINOIS FED. AID PROJECT							
				SCALE: N/A	SHEET NO. 22 OF 31 SHEETS	STA. N/A	TO STA. N/A			

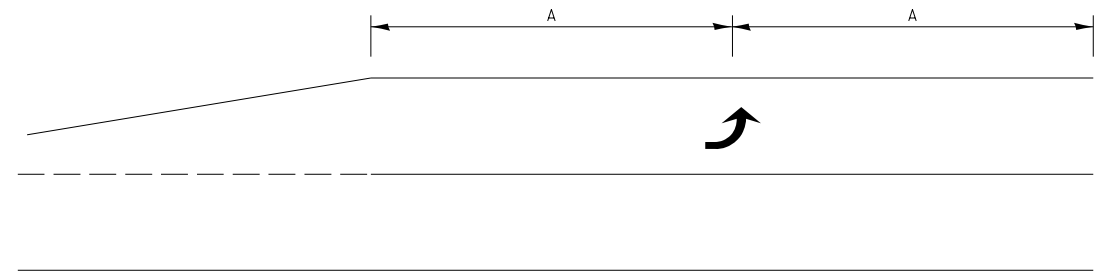


ADVANCE AND INTERSECTION LANE DIVIDER LINES

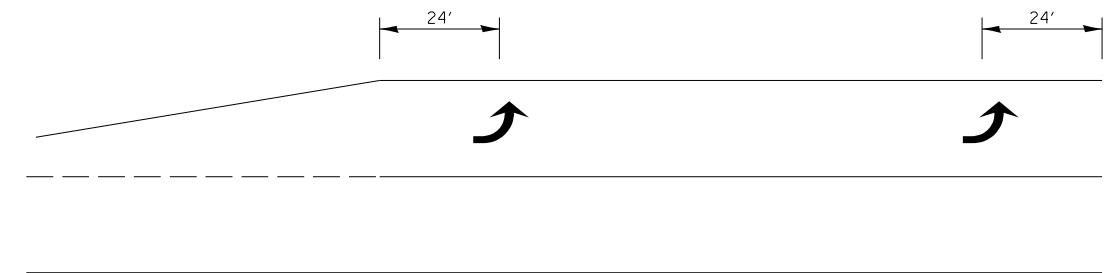


PAVEMENT MARKING
 CENTERLINE & NO PASSING ZONE LINES - YELLOW
 (SEE TYPICAL SECTIONS)

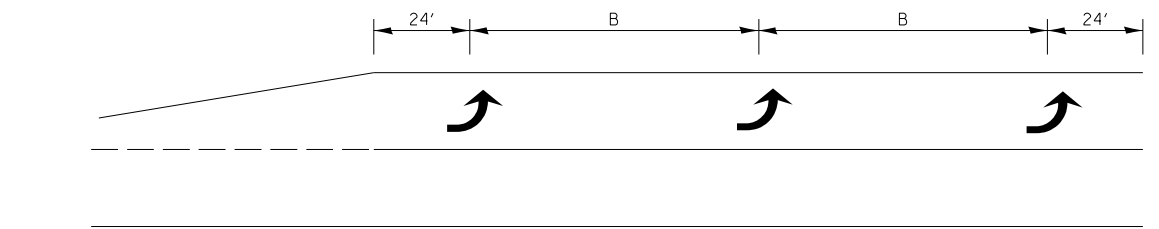
PAVEMENT MARKING
 DETAIL TO BE USED IN LIEU OF STD 780001



99' AND UNDER

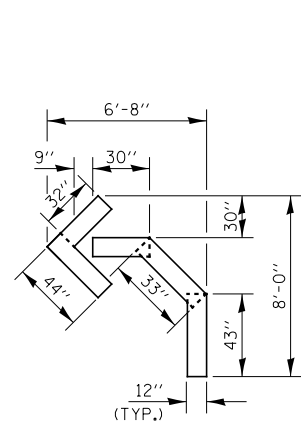


100' TO 149'

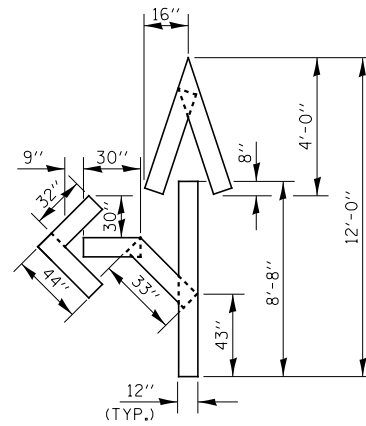


150' AND LONGER

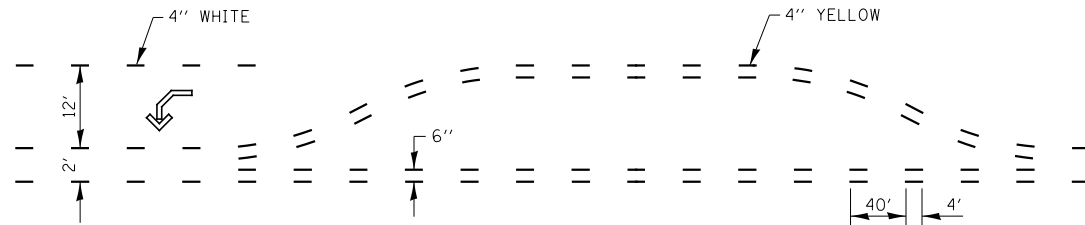
TYPICAL PLACEMENT OF ARROWS IN TURN LANES



QUANTITY
 12" LINE = 16 LIN. FT.
 OR 4" LINE = 48 LIN. FT.



QUANTITY
 12" LINE = 29 LIN. FT.
 OR 4" LINE = 87 LIN. FT.



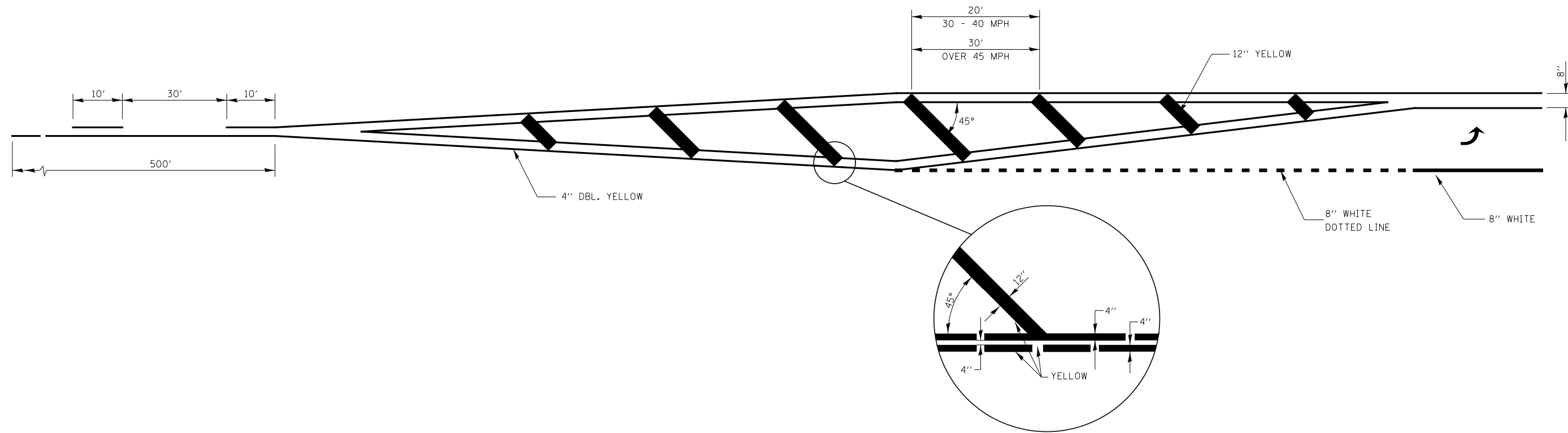
SHORT-TERM PAVEMENT MARKING FOR MEDIANS AND ARROWS

PAVEMENT MARKING DETAILS

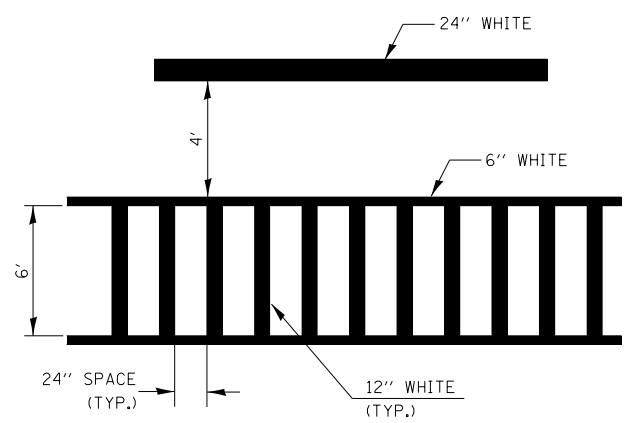
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PLOT SCALE = 2.000' / in.		CHECKED - DJD	REVISED -
PLOT DATE = 8/6/2013		DATE - 7/15/2013	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

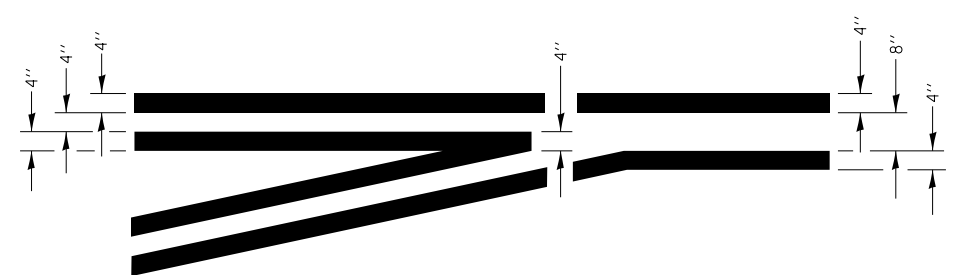
IL. RTE. 47		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
DETAILS		326	(110)R, BR & BR-1	GRUNDY	644	473
SCALE: N/A		SHEET NO. 23 OF 31 SHEETS		STA. N/A	TO STA. N/A	
ILLINOIS FED. AID PROJECT CONTRACT NO. 66883						



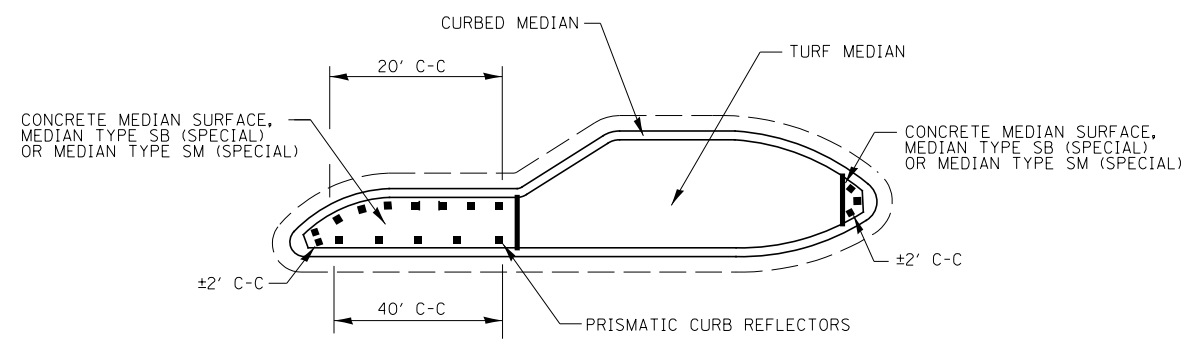
LEFT TURN LANE WITH APPROACH MEDIAN



TYPICAL SPACING DETAIL FOR CROSSWALKS AND STOP BARS

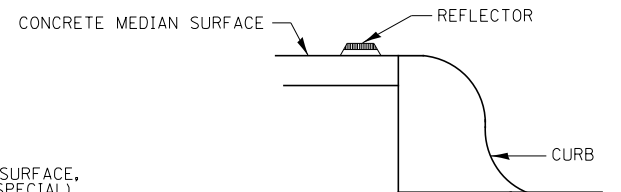


TYPICAL APPLICATION AT LEFT TURN LANES



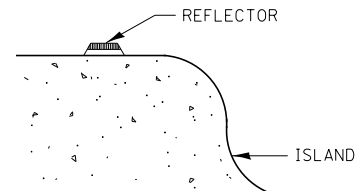
1. PRISMATIC REFLECTORS SHALL BE BI-DIRECTIONAL.
2. PRISMATIC REFLECTORS SHALL BE SECURED IN PLACE WITH AN EPOXY ADHESIVE.
3. PRISMATIC REFLECTORS SHALL BE AMBER IN COLOR.

PRISMATIC CURB REFLECTORS AT CURB MEDIANS



SECTION VIEW

OPTION 1



SECTION VIEW

OPTION 2

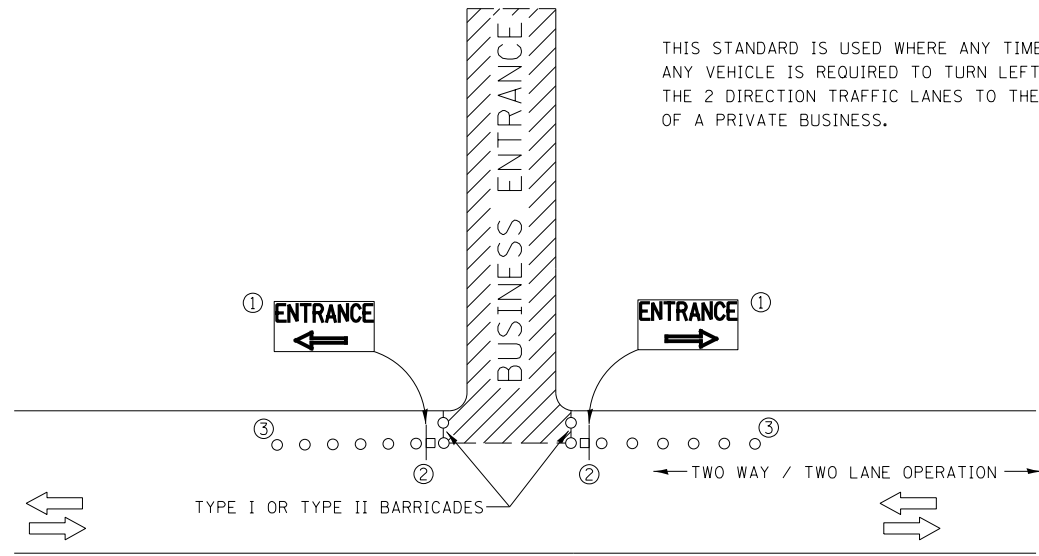
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	PLOT DATE = 8/6/2013	DATE - 7/15/2013	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**IL. RTE. 47
DETAILS**

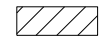
SCALE: N/A SHEET NO. 24 OF 31 SHEETS STA. N/A TO STA. N/A

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	(110)R, BR & BR-1	GRUNDY	644	474
CONTRACT NO. 66883				
ILLINOIS FED. AID PROJECT				



THIS STANDARD IS USED WHERE ANY TIME, DAY OR NIGHT, ANY VEHICLE IS REQUIRED TO TURN LEFT OR RIGHT FROM THE 2 DIRECTION TRAFFIC LANES TO THE ENTRANCE ZONE OF A PRIVATE BUSINESS.

SYMBOLS



BUSINESS ENTRANCE ZONE



BARRICADE OR DRUM WITH FLASHING LIGHT

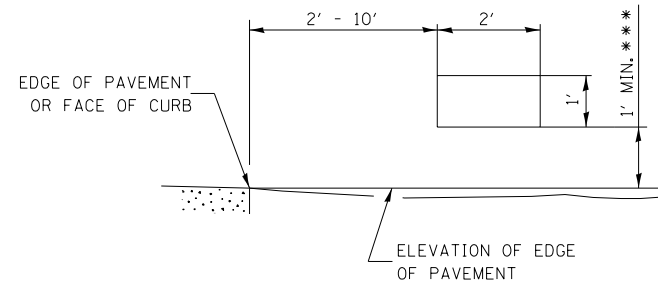


SIGN ON TEMPORARY SUPPORT

① REFER TO BUSINESS ENTRANCE SIGN TABLE FOR DIMENSIONS.

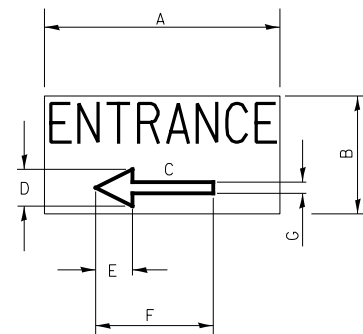
② SEE "SIGNS ON TEMPORARY SUPPORTS" DETAIL.

③ DRUMS



SIGNS ON TEMPORARY SUPPORTS

*** WHEN WORK OPERATIONS EXCEED FOUR DAYS, THIS DIMENSION SHALL BE 5' MIN. IF LOCATED BEHIND OTH DEVICES, THE HEIGHT SHALL BE SUFFICIENT TO BE SEEN BY MOTORISTS.



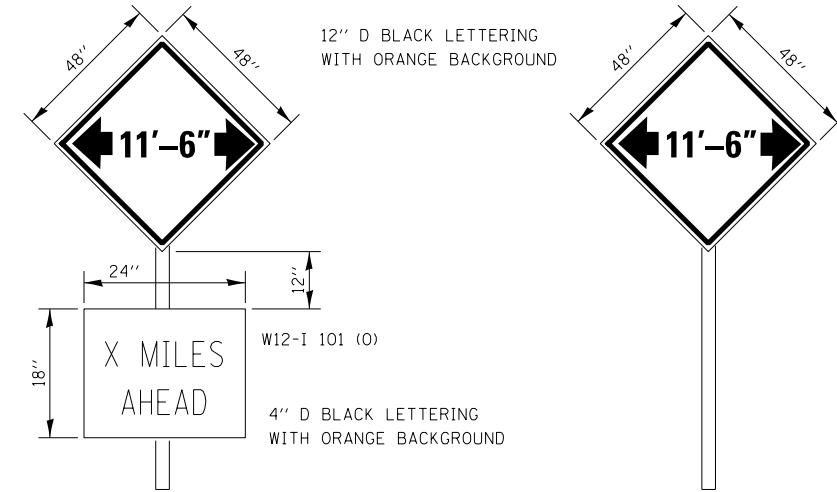
BUSINESS ENTRANCE SIGN

4" BLUE LETTERING NON-REFLECTIVE WITH WHITE REFLECTIVE BACKGROUND

SIGN SIZE	DIMENSIONS						
	A	B	C	D	E	F	G
24 X 12	24	12	8.25	4.75	3.75	12	2.25

SIGNS FOR BUSINESSES ABUTTING THE WORK ZONE, DELINEATING THE WAY THROUGH THE BARRICADES TO RESPECTIVE ENTRANCES.

BUSINESS ABUTTING WORK ZONE ENTRANCE SIGN
THIS WORK SHALL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION SPECIAL



TO BE POST MOUNTED AT THE FOLLOWING LOCATIONS:

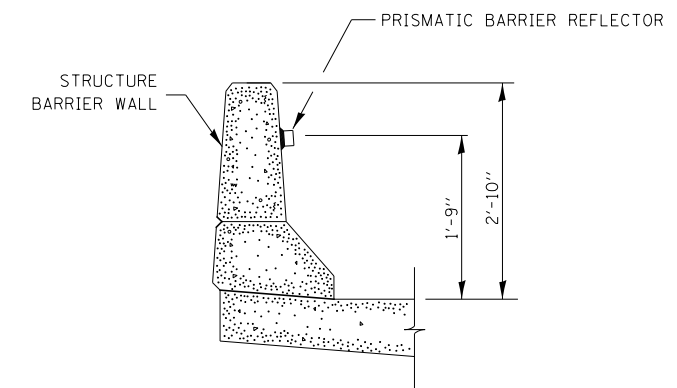
- NORTHBOUND - IN ADVANCE OF THE NORTH LEG OF IL 47 AND US 6 INTERSECTION AND IMMEDIATELY PRIOR TO CONSTRUCTION ZONE.
- SOUTHBOUND - IN ADVANCE OF IL 47 AND US 52 INTERSECTION AND IMMEDIATELY PRIOR TO CONSTRUCTION ZONE.
- ENGINEER SHALL DETERMINE EXACT LOCATION.

THE ENGINEER WILL NOTIFY DISTRICT 3 BUREAU OF OPERATIONS 14 CALENDAR DAYS PRIOR TO INSTALLING ANY TRAFFIC CONTROL DEVICES THAT WILL RESTRICT THE PAVEMENT WIDTH.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH THE ENGINEER TO MEET THIS REQUIREMENT.

COST OF SUPPLYING, INSTALLING, MAINTAINING AND REMOVING WIDTH RESTRICTION SIGNS SHALL BE INCLUDED IN THE COST OF THE TRAFFIC CONTROL AND PROTECTION PAY ITEMS.

WIDTH RESTRICTION SIGNING DETAILS



BARRIER WALL MARKER

WORK ZONE SIGNING AND BARRIER WALL MARKER DETAILS

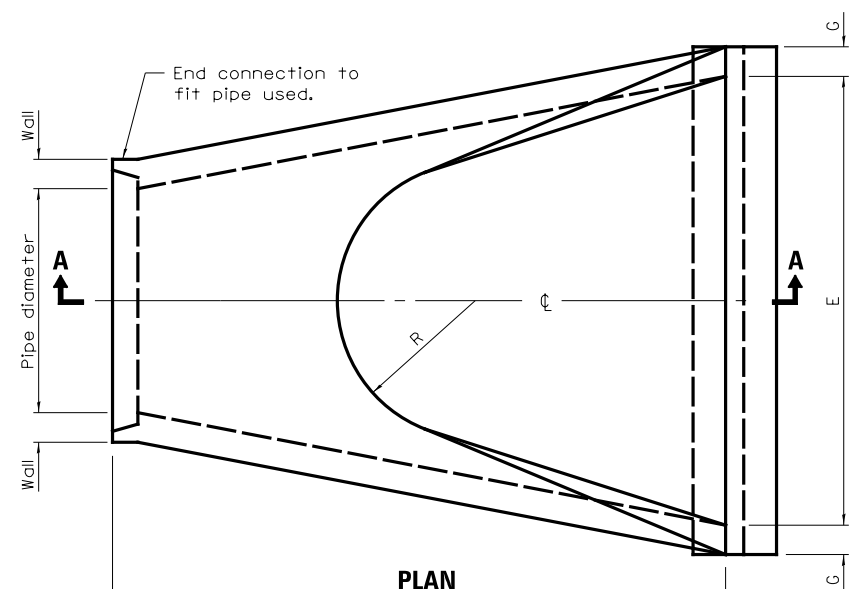
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PLOT SCALE = 2.000' / in.	CHECKED - DJD	DRAWN - SGM	REVISED -
PLOT DATE = 8/6/2013	DATE - 7/15/2013		REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

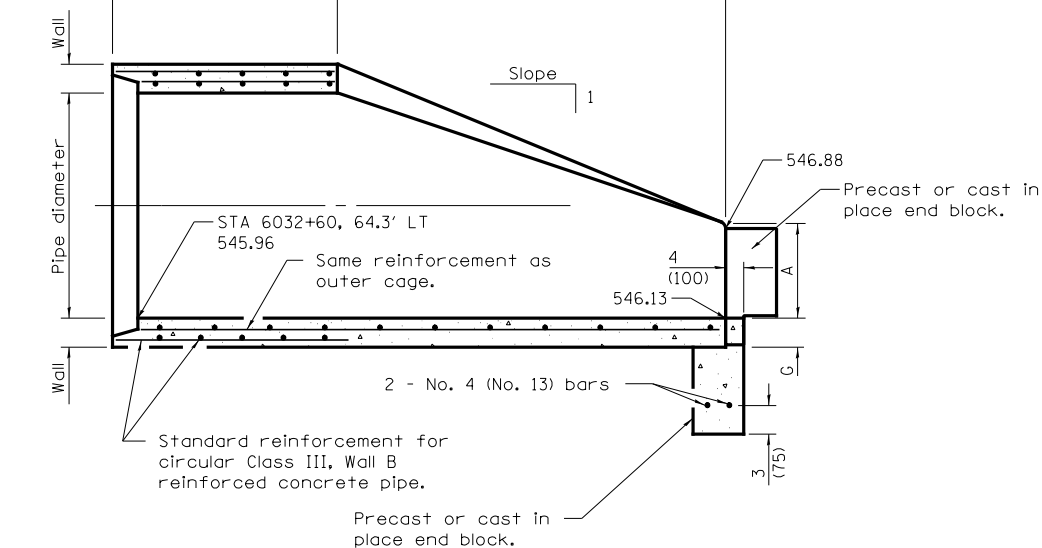
**IL. RTE. 47
DETAILS**

SCALE: N/A SHEET NO. 25 OF 31 SHEETS STA. N/A TO STA. N/A

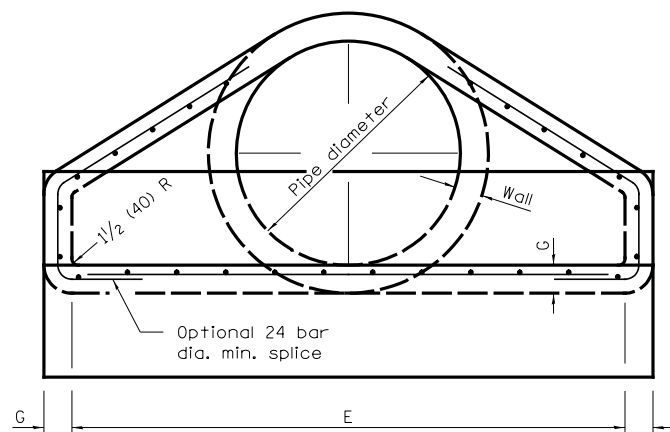
F.A.P. RTE. 326	SECTION (110)R, BR & BR-1	COUNTY GRUNDY	TOTAL SHEETS 644	SHEET NO. 475
CONTRACT NO. 66883				ILLINOIS FED. AID PROJECT



PLAN



SECTION A-A



END VIEW

PIPE DIA.	APPROX. QTY. lbs. (kg)	WALL	A	B	C	D	E	G	R	APPROX. SLOPE
12 (300)	530 (240)	2 (51)	4 (102)	24 (610)	4'-0 7/8" (1.241 m)	6'-0 7/8" (1.851 m)	24 (610)	2 (51)	9 (229)	1:2.4
15 (375)	740 (335)	2 1/4 (57)	6 (152)	27 (686)	3'-10" (1.168 m)	6'-1" (1.854 m)	30 (762)	2 1/4 (57)	11 (280)	1:2.4
18 (450)	990 (450)	2 1/2 (64)	9 (229)	27 (686)	3'-10" (1.168 m)	6'-1" (1.854 m)	36 (914)	2 1/2 (64)	12 (305)	1:2.4
21 (525)	1280 (580)	2 3/4 (70)	9 (229)	35 (889)	3'-7 1/2" (1.105 m)	6'-1" (1.854 m)	38 (965)	3'-6" (1.067 m)	13 (330)	1:2.4
24 (600)	1520 (690)	3 (76)	9 1/2 (241)	3'-7 1/2" (1.105 m)	30 (762)	6'-1 1/2" (1.867 m)	4'-0" (1.219 m)	3 (76)	14 (356)	1:2.5
27 (675)	1930 (875)	3 1/4 (83)	10 1/2 (267)	4'-0" (1.219 m)	25 1/2 (648)	6'-1 1/2" (1.867 m)	4'-6" (1.372 m)	3 1/4 (83)	14 1/2 (368)	1:2.4
30 (750)	2190 (995)	3 1/2 (89)	12 (305)	4'-6" (1.375 m)	19 3/4 (502)	6'-1 3/4" (1.874 m)	5'-0" (1.524 m)	3 1/2 (89)	15 (381)	1:2.5
33 (825)	3200 (1450)	3 3/4 (95)	13 1/2 (343)	4'-10 1/2" (1.486 m)	39 1/4 (997)	8'-1 3/4" (2.483 m)	5'-6" (1.676 m)	3 3/4 (95)	17 1/2 (445)	1:2.5
36 (900)	4100 (1860)	4 (102)	15 (381)	5'-3" (1.6 m)	34 3/4 (883)	8'-1 3/4" (2.483 m)	6'-0" (1.829 m)	4 (102)	20 (508)	1:2.5
42 (1050)	5380 (2440)	4 1/2 (114)	21 (533)	5'-3" (1.6 m)	35 (889)	8'-2" (2.489 m)	6'-6" (1.981 m)	4 1/2 (114)	22 (559)	1:2.5
48 (1200)	6550 (2970)	5 (127)	24 (610)	6'-0" (1.829 m)	26 (660)	8'-2" (2.489 m)	7'-0" (2.134 m)	5 (127)	22 (559)	1:2.5
54 (1350)	8240 (3740)	5 1/2 (140)	27 (686)	5'-5" (1.651 m)	35 (889)	8'-4" (2.54 m)	7'-6" (2.286 m)	5 1/2 (140)	24 (610)	1:2.0
60 (1500)	8730 (3960)	6 (152)	35 (889)	5'-0" (1.524 m)	39 (991)	8'-3" (2.515 m)	8'-0" (2.438 m)	5 (127)	•	1:1.9
66 (1650)	10710 (4860)	6 1/2 (165)	30 (762)	6'-0" (1.829 m)	27 (686)	8'-3" (2.515 m)	8'-6" (2.591 m)	5 1/2 (140)	•	1:1.7
72 (1800)	12520 (5680)	7 (178)	36 (914)	6'-6" (1.981 m)	21 (533)	8'-3" (2.514 m)	9'-0" (2.743 m)	6 (152)	•	1:1.8
78 (1950)	14770 (6700)	7 1/2 (191)	36 (914)	7'-6" (2.286 m)	21 (533)	9'-3" (2.819 m)	9'-6" (2.896 m)	6 1/2 (165)	•	1:1.8
84 (2100)	18160 (8240)	8 (203)	36 (914)	7'-6 1/2" (2.299 m)	21 (533)	9'-3 1/2" (2.832 m)	10'-0" (3.048 m)	6 1/2 (165)	•	1:1.6

• Radius as furnished by manufacturer

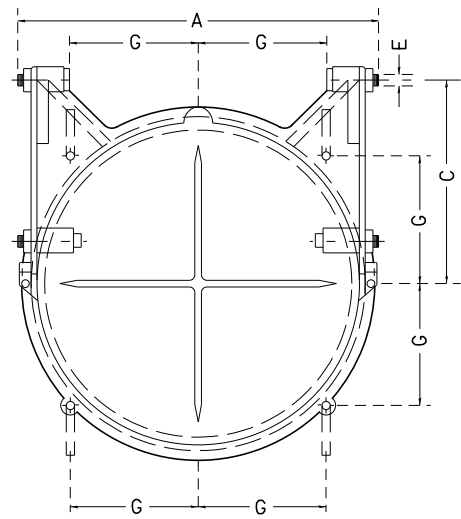
GENERAL NOTES

All slope ratios are expressed as units of vertical displacement to units of horizontal displacement (V:H).

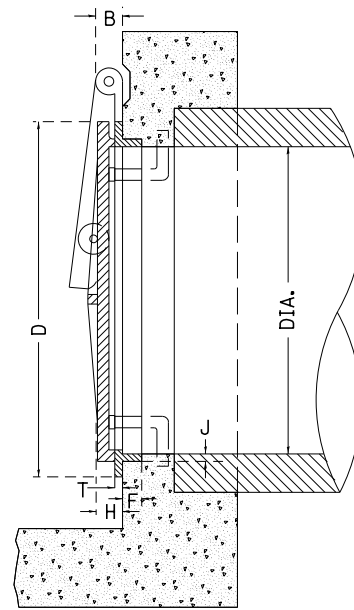
All dimensions are in inches (millimeters) unless otherwise shown.

PRECAST REINFORCED CONCRETE FLARED DROP BOX END SECTION

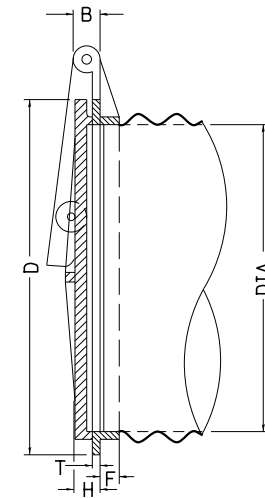
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PLOT SCALE = 2.0000' / in.	CHECKED - DJD	REVISIED -	SCALE: N/A			SHEET NO. 27 OF 31 SHEETS	STA. N/A TO STA. N/A	CONTRACT NO. 66883				
PLOT DATE = 8/6/2013	DATE - 7/15/2013	REVISIED -	FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT									



FRONT ELEVATION



SECTION



SECTION SHOWING METHOD OF APPLICATION TO CORRUGATED METAL PIPE

IT IS INTENDED THAT THE AUTOMATIC FLAP GATES SHALL BE A COMMERCIAL PRODUCT PRODUCED BY A RELIABLE MANUFACTURER. THE GATE MAY BE MADE OF CAST IRON, CAST STEEL OR OTHER SUITABLE MATERIALS. THE DESIGN MAY DIFFER FROM THE DRAWING IF IT WILL WORK IN A SATISFACTORY, TROUBLE FREE MANNER AND WILL WITHSTAND THE WATER PRESSURE AT THE INSTALLATION LOCATION. THE GATE SHALL BE APPROVED BY THE ENGINEER.

THE SIZE OF AUTOMATIC FLAP GATES SHALL REFER TO THE DIAMETER OF THE OUTLET PIPE OR OPENING.

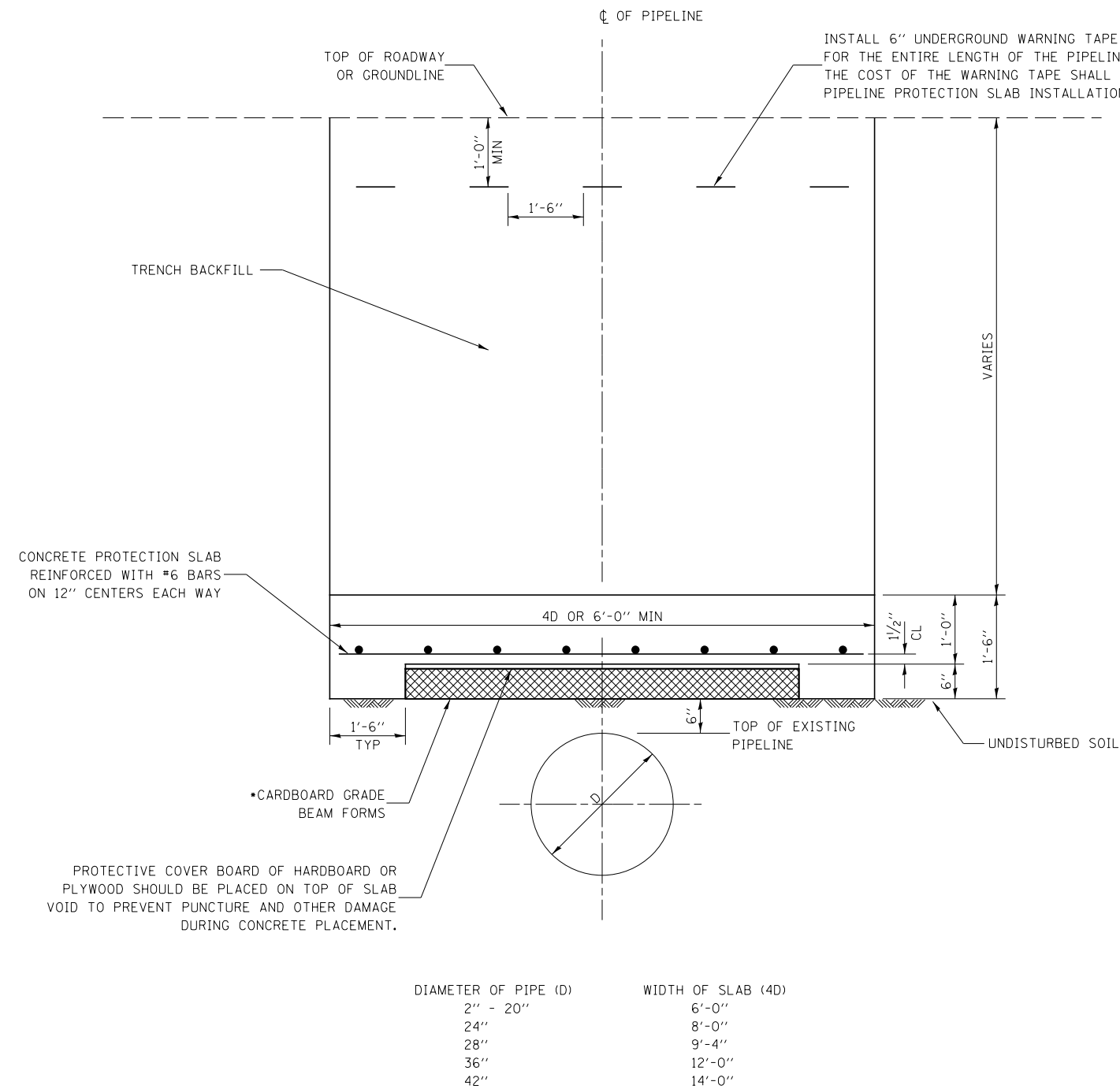
THIS WORK SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR FLAP GATES OF THE SIZE SPECIFIED AND SHALL INCLUDE ALL MATERIALS AND COMPLETE INSTALLATION.

TABLE OF DIMENSIONS

DIAM	A	B	C	D	E	F	G	H	J	T
8"	10 3/4"	1 3/8"	5 1/16"	10"	1/2"	1 1/8"	3 9/16"	1 1/4"	3/8"	3/8"
10"	12 3/4"	1 3/8"	7 1/8"	12 1/4"	1/2"	1 1/8"	4 3/8"	1 1/2"	1/2"	7/16"
12"	14 3/4"	1 3/8"	8 1/2"	14 1/2"	1/2"	1 1/8"	5 1/8"	1 1/2"	1/2"	1/2"
14"	17 1/4"	1 3/8"	9 7/8"	16 3/4"	1/2"	1 1/4"	5 15/16"	1 1/2"	1/2"	9/16"
15"	17 3/4"	1 3/8"	10 5/8"	17 3/4"	1/2"	1 1/4"	6 1/4"	1 1/2"	1/2"	9/16"
16"	19 1/4"	1 3/8"	11 1/4"	18 3/4"	1/2"	1 1/4"	6 5/8"	1 1/2"	1/2"	9/16"
18"	22 1/4"	2"	12 5/8"	21"	3/4"	1 9/16"	7 7/16"	1 3/4"	9/16"	9/16"
20"	24 3/4"	2"	14 1/8"	23 3/4"	3/4"	1 3/8"	8 1/4"	1 3/4"	5/8"	5/8"
21"	25 1/4"	2"	14 7/8"	24 1/4"	3/4"	1 3/8"	8 9/16"	1 3/4"	5/8"	5/8"
24"	28 1/4"	2"	17"	27 1/2"	3/4"	1 1/2"	9 3/4"	1 3/4"	5/8"	5/8"
30"	35 1/4"	2 1/2"	20 1/2"	34"	1"	1 9/16"	12"	2"	1 1/16"	5/8"
36"	41 1/2"	2 1/2"	25"	40 7/8"	1"	2 1/16"	14 7/16"	2 1/4"	1 1/8"	11/16"
42"	47 1/2"	2 1/2"	29 3/4"	47"	1"	2 5/16"	16 5/8"	2 1/4"	1 1/8"	3/4"
48"	53 1/2"	2 1/2"	34"	54"	1"	2 3/4"	19 1/16"	2 1/4"	1 3/8"	3/4"
54"	60 3/4"	2 1/2"	38"	62 1/4"	1 1/4"	2 3/4"	22"	3"	1 1/2"	7/8"
60"	67"	2 1/2"	42"	68 1/2"	1 1/4"	2 3/4"	24 1/4"	3"	1 1/2"	15/16"
66"	73 3/8"	2 1/2"	47"	75"	1 1/4"	2 7/8"	26 1/2"	3"	1 1/2"	1"
72"	79"	2 1/2"	51"	82"	1 1/4"	3"	29"	3"	1 1/2"	1"
78"	86"	2 1/2"	55 1/4"	88 3/4"	1 1/4"	3 1/2"	31 3/8"	3"	1 5/8"	1 1/8"
84"	92 1/2"	3 1/2"	59 1/2"	95 1/2"	1 1/2"	3 1/2"	33 3/4"	3"	1 3/4"	1 1/4"

AUTOMATIC FLAPGATE DETAIL

FILE NAME =	USER NAME = bdecreene	DESIGNED - LDZ	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL. RTE. 47 DETAILS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
V:\3195\66883 (South Section)\CADD Sheets\0366883-sht-details-28.dgn	DRAWN - SGM	REVISIED -	326			(110)R, BR & BR-1	GRUNDY	644	478	
PLOT SCALE = 2.0000' / in.	CHECKED - DJD	REVISIED -	CONTRACT NO. 66883							
PLOT DATE = 8/6/2013	DATE - 7/15/2013	REVISIED -	SCALE: N/A			SHEET NO. 28 OF 31 SHEETS	STA. N/A TO STA. N/A	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT	



• SUREVOID PRODUCTS
SLAB VOID HEAVY DUTY STRENGTH
WORKING LOAD OF 1500 PSF.
END CAPS REQUIRED.

DESIGNED IN ACCORDANCE WITH TITLE 49-PART
192 MINIMUM FEDERAL SAFETY STANDARDS
AND ASME GUIDE FOR GAS PIPING SYSTEMS, LATEST EDITION.

UTILITY PROTECTION PAD DETAIL

UTILITY PROTECTION PAD						
STATION	SIDE	PIPELINE	SIZE	SLAB SIZE	SQ YD	NOTE
URBAN GRUNDY						
IL 47						
6098±85	LT	ONEOK	10"	N/A		CRANE MAT ONLY
6098±85	RT	ONEOK	10"	6' x 70'	47	
6099±20	LT / RT	ENTERPRISE	10"	6' x 183'	122	
6100±50	RT	ALLIANCE	36"	N/A		CRANE MAT ONLY
6100±50	LT	ALLIANCE	36"	12' x 30'	40	
NELSON RD.						
207±80	LT	ENTERPRISE	10"	6' x 40'	27	
207±80	RT	ENTERPRISE	10"	6' x 40'	27	
208±12	LT	ONEOK	10"	N/A		CRANE MAT ONLY
208±12	RT	ONEOK	10"	6' x 32'	22	
URBAN GRUNDY SUB-TOTAL					285	
RURAL GRUNDY						
IL 47						
6226±49	LT / RT	KINDER MORGAN	36"	12' x 300'	400	
6227±21	LT / RT	KINDER MORGAN	24" IN 28" CASING	9.3' x 295'	306	
6227±88	LT / RT	KINDER MORGAN	36" IN 42" CASING	14' x 284'	442	
RURAL GRUNDY SUB-TOTAL					1148	
RURAL KENDALL						
SOUTHBOUND CONNECTOR						
29±65	LT / RT	NBPL	36"	12' x 232'	310	
RURAL KENDALL SUB-TOTAL					310	
TOTAL					1743	

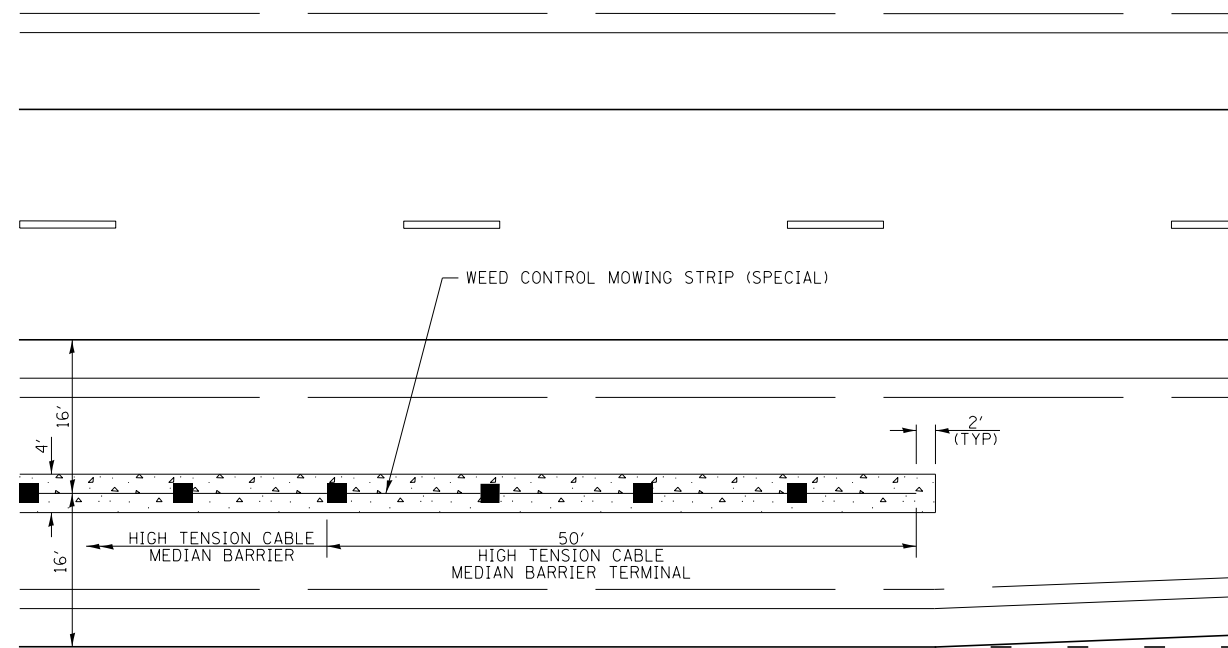
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

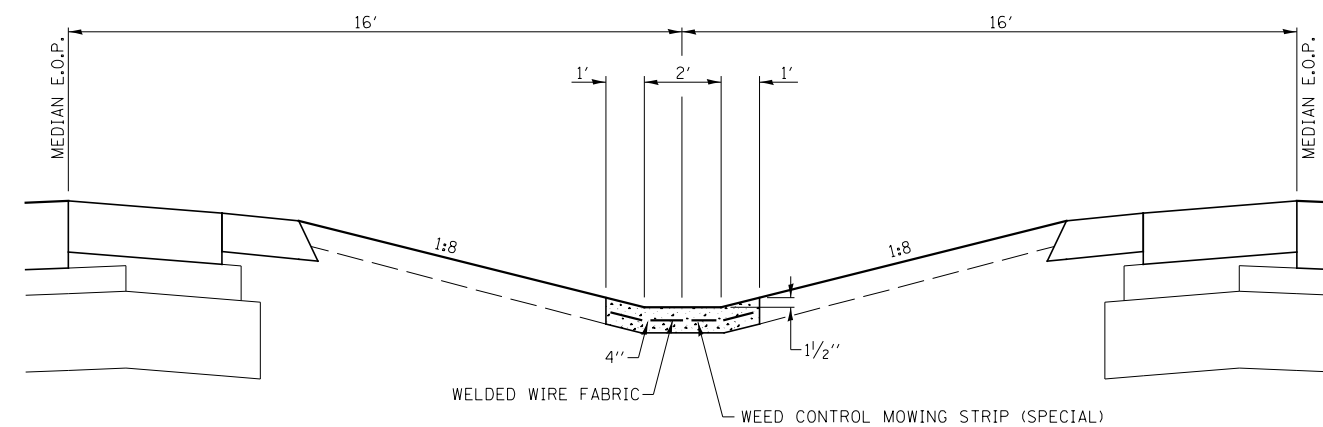
**IL. RTE. 47
DETAILS**

SCALE: N/A SHEET NO. 29 OF 31 SHEETS STA. N/A TO STA. N/A

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	(110)R, BR & BR-1	GRUNDY	644	479
CONTRACT NO. 66883				
<small>FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT</small>				

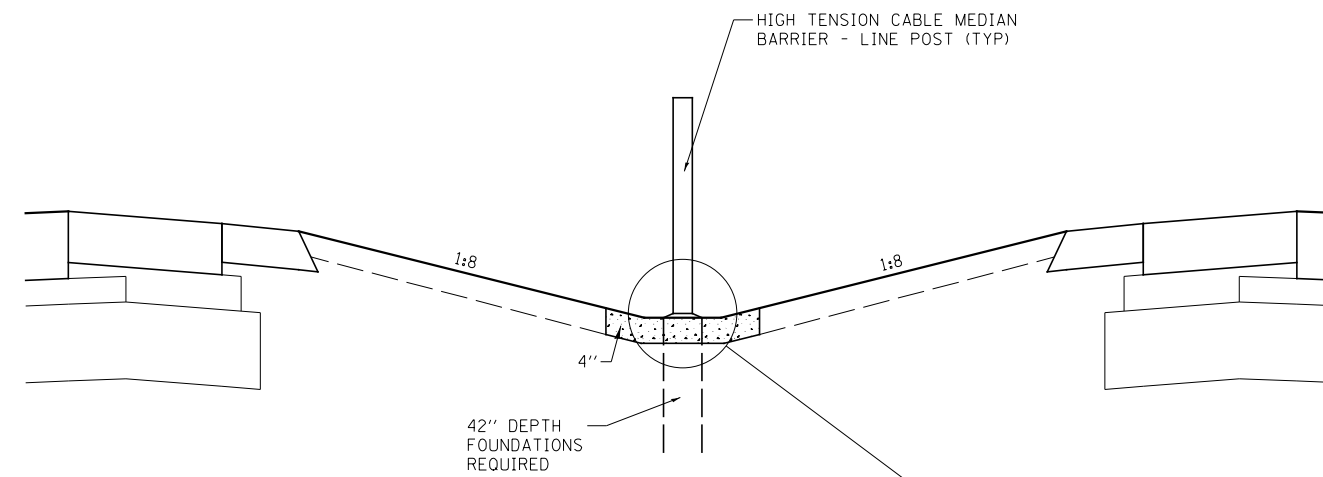


PLAN VIEW



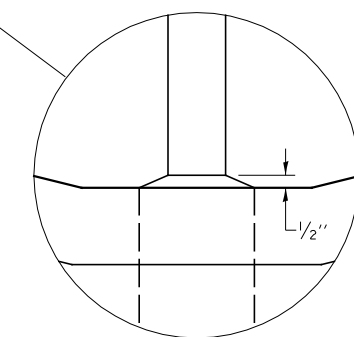
NOTE: PGL MOW STRIP PARALLELS ROADWAY PGL

TYPICAL SECTION AT MOWING STRIP



NOTE: SPACE POSTS TO MISS INLETS

TYPICAL SECTION AT POST



HIGH TENSION CABLE MEDIAN BARRIER AND WEED CONTROL MOWING STRIP (SPECIAL) DETAIL

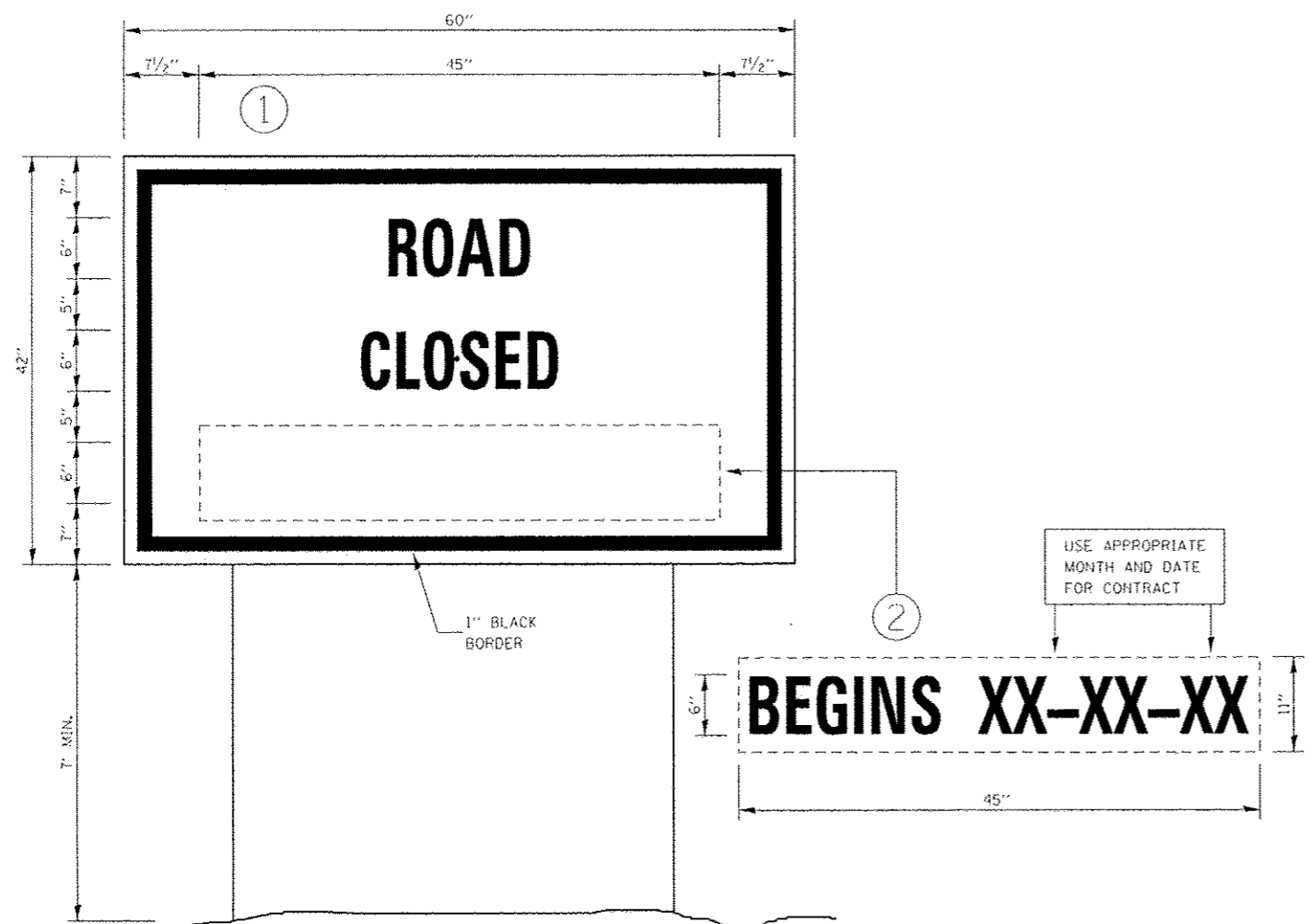
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MODELNAME	PLOT DATE = 8/6/2013	DATE - 7/15/2013	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**IL. RTE. 47
DETAILS**

SCALE: N/A SHEET NO. 30 OF 31 SHEETS STA. N/A TO STA. N/A

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	(110)R, BR & BR-1	GRUNDY	644	480
CONTRACT NO. 66883				
ILLINOIS FED. AID PROJECT				



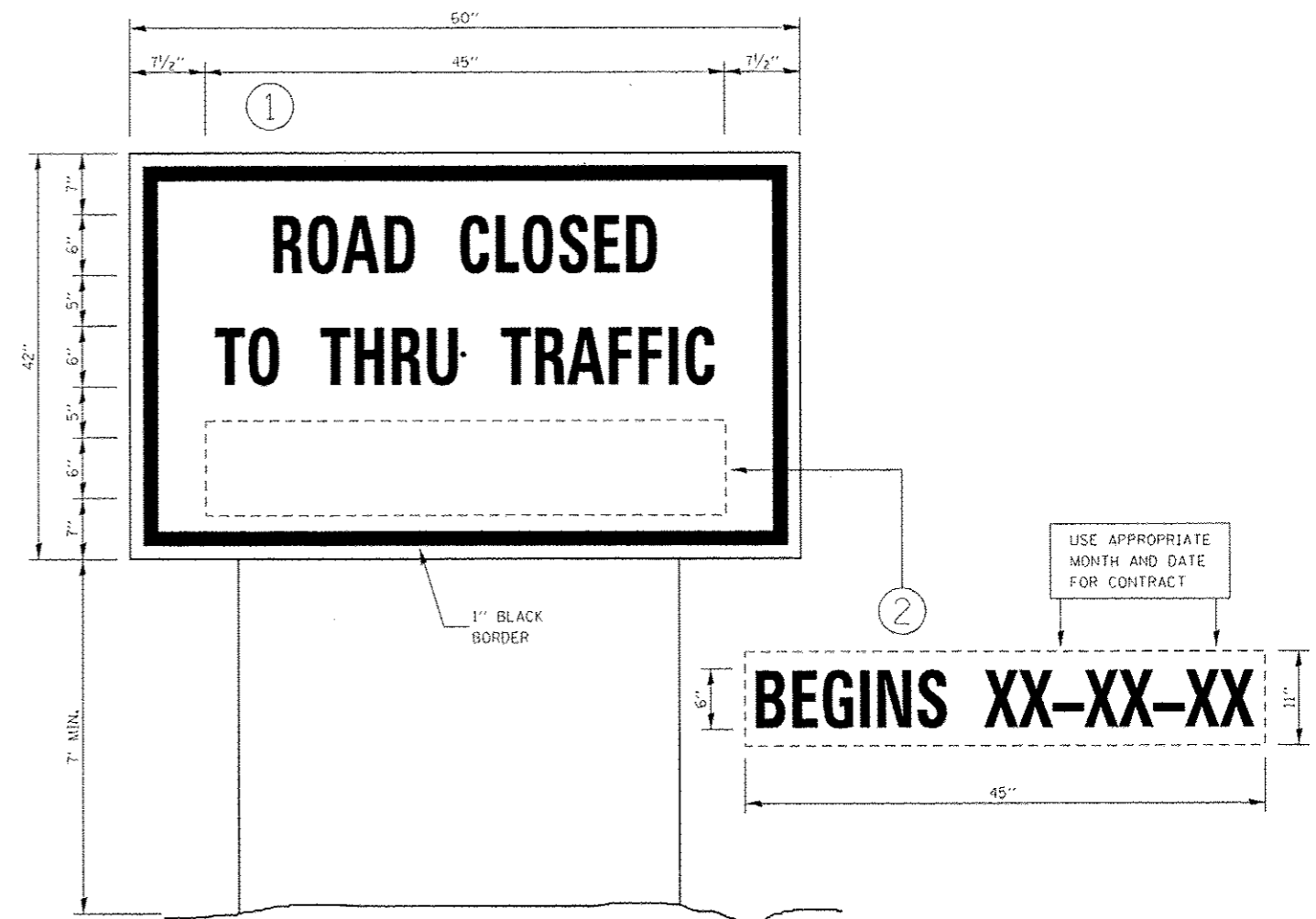
TEMPORARY INFORMATION SIGN

NOTES:

1. USE 6" D BLACK LETTERING ON ORANGE BACKGROUND.
2. ERECT SIGNS IN ADVANCE OF THE LOCATION FOR THE "ROAD CONSTRUCTION AHEAD" SIGN AT LOCATIONS AS DIRECTED BY THE ENGINEER.
3. ERECT SIGN ① WITH INSTALLED PANEL ② A MINIMUM OF ONE WEEK PRIOR TO THE START OF CONSTRUCTION.
4. REMOVE PANEL ② ON THAT DATE.
5. SEE SPECIAL PROVISION "TEMPORARY INFORMATION SIGN" FOR ADDITIONAL INFORMATION.

6. SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE FOOT FOR TEMPORARY INFORMATION SIGN. INSTALLED SIGN PANEL 2 SHALL NOT BE MEASURED SEPERATELY BUT SHALL BE CONSIDERED INCLUDED IN THE SQUARE FOOTAGE OF SIGN 1.

720-10



TEMPORARY INFORMATION SIGN

NOTES:

1. USE 6" D BLACK LETTERING ON ORANGE BACKGROUND.
2. ERECT SIGNS IN ADVANCE OF THE LOCATION FOR THE "ROAD CONSTRUCTION AHEAD" SIGN AT LOCATIONS AS DIRECTED BY THE ENGINEER.
3. ERECT SIGN ① WITH INSTALLED PANEL ② A MINIMUM OF ONE WEEK PRIOR TO THE START OF DETOUR.
4. REMOVE PANEL ② ON THAT DATE.
5. SEE SPECIAL PROVISION "TEMPORARY INFORMATION SIGN" FOR ADDITIONAL INFORMATION.

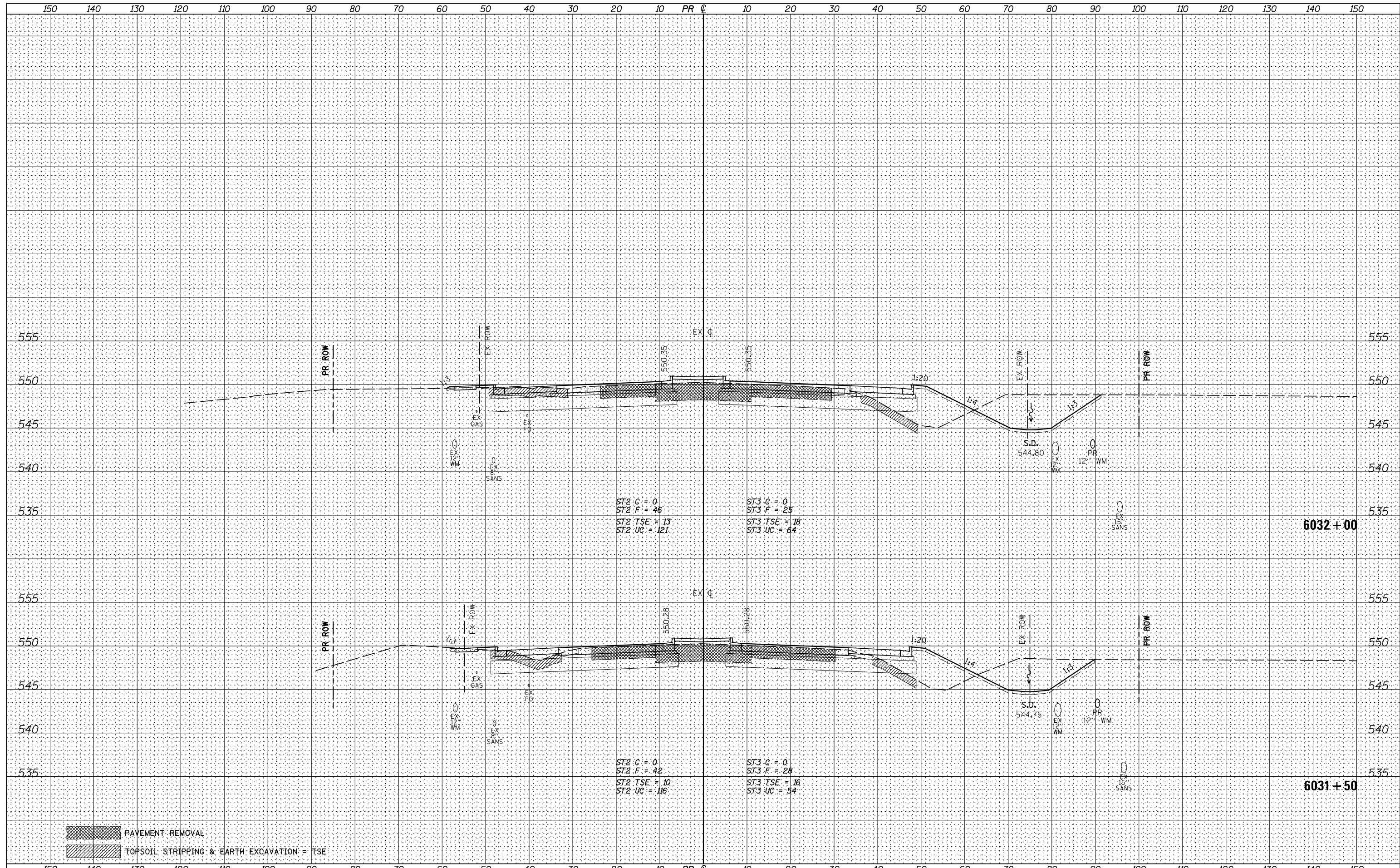
6. SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE FOOT FOR TEMPORARY INFORMATION SIGN. INSTALLED SIGN PANEL 2 SHALL NOT BE MEASURED SEPERATELY BUT SHALL BE CONSIDERED INCLUDED IN THE SQUARE FOOTAGE OF SIGN 1.



720-11

FILE NAME =	USER NAME = hdeorone	DESIGNED - LDZ	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL. RTE. 47 DETAILS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
Y:\3195\66883 (South Section)\CADD Sheet	AD366883-sh-detailed-31.dgn	DRAWN - SCM	REVISED -			S26	1101R, BR & BR-1	GRUNDY	644	481
PLOT SCALE = 2.0000 "/ in.	CHECKED - DJD	REVISED -	REVISED -			CONTRACT NO. 66B83				
PLOT DATE = 8/6/2013	DATE = 7-15-2013	REVISED -	REVISED -			SCALE: N/A	SHEET NO. 31 OF 31 SHEETS	STA. N/A	TO STA. N/A	FED. ROAD DIST. NO.

DATE	
BY	
FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS CHECKED
	AREAS CHECKED

DATE	
BY	
ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS CHECKED
	AREAS CHECKED

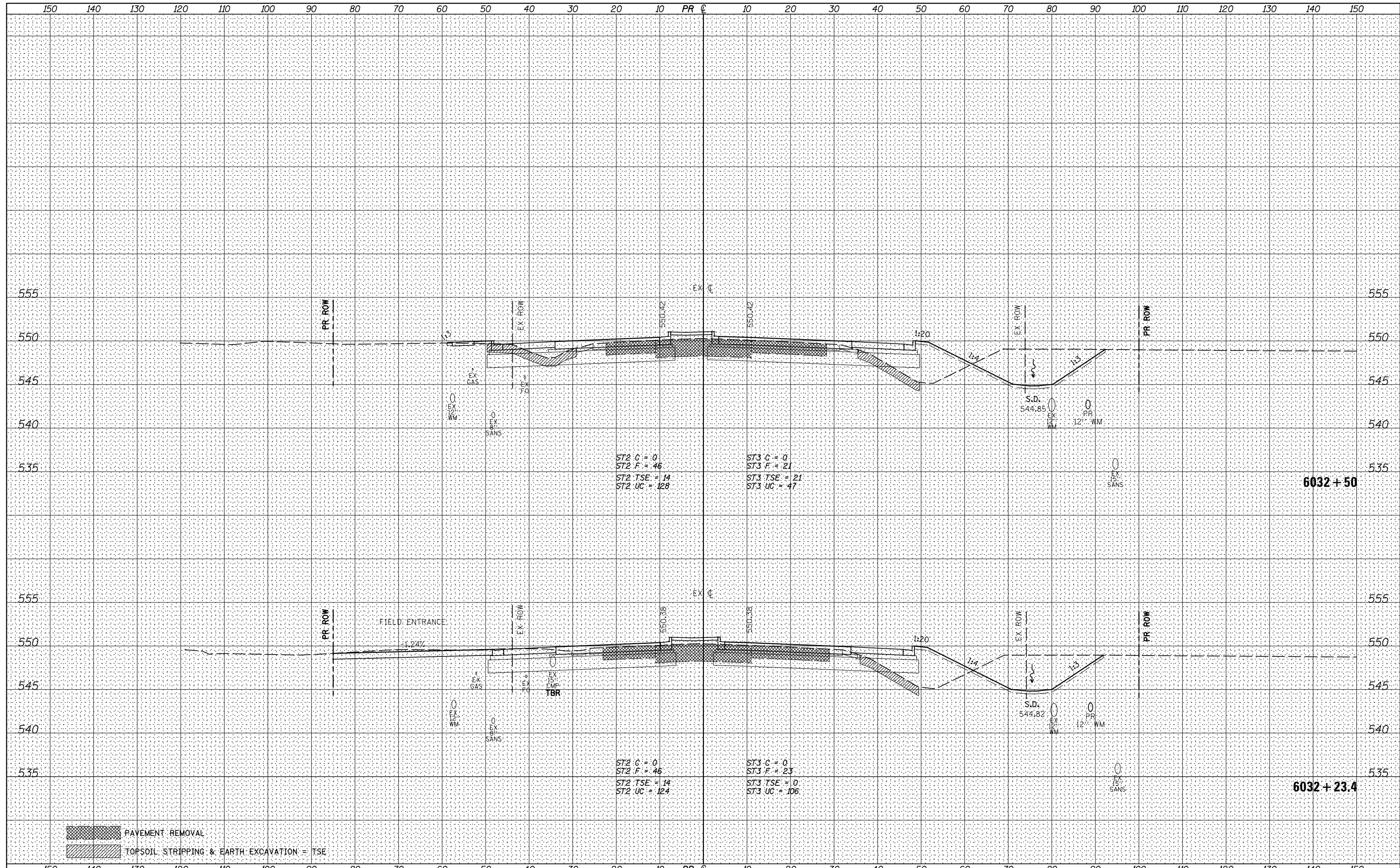


 PAVEMENT REMOVAL
 TOPSOIL STRIPPING & EARTH EXCAVATION = TSE

FILE NAME =	USER NAME = bdecreane	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL. RTE. 47 CROSS SECTIONS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
V:\3195\66883 (South Section)\CADD Sheets\0366883-sh1-xssht-IL47.dgn		DRAWN -	REVISED -			326	(110)R, BR & BR-1	GRUNDY	644	485
PLOT SCALE = 20.0000' / in.		CHECKED -	REVISED -			CONTRACT NO. 66883				
PLOT DATE = 8/5/2013		DATE -	REVISED -			ILLINOIS FED. AID PROJECT				
XS.SHEET				SCALE: H=10 V=5 SHEET 4 OF 134 SHEETS STA. 6031+50 TO STA. 6032+00						

DATE	
BY	
NO.	
FINISHED SURVEY	
PLOTTED TEMPLATE	
NOTE BOOK	
AREAS CHECKED	

DATE	
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NO.	
ORIGINAL SURVEY	
PLOTTED TEMPLATE	
NOTE BOOK	
AREAS CHECKED	

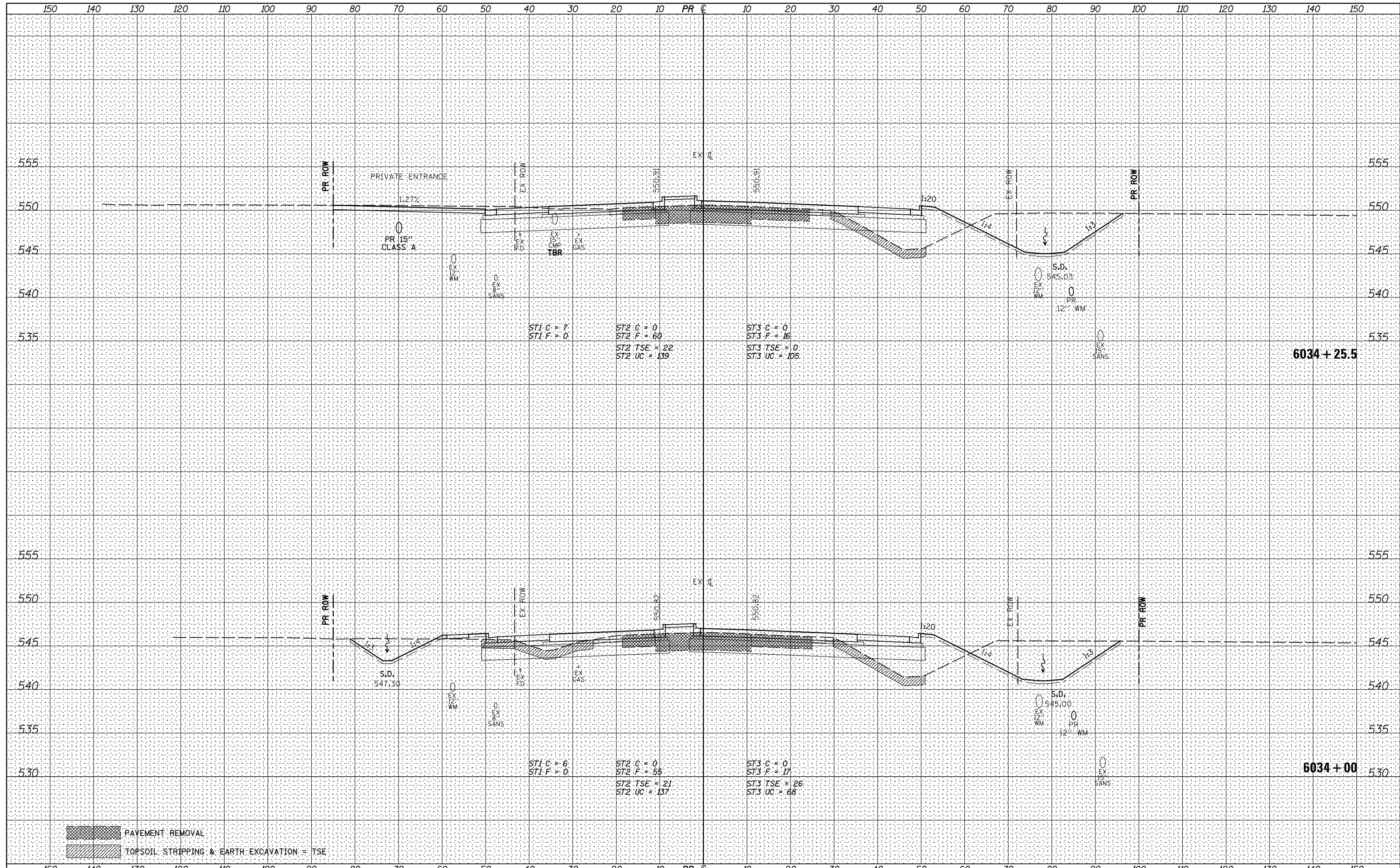


PAVEMENT REMOVAL
 TOPSOIL STRIPPING & EARTH EXCAVATION = TSE

FILE NAME = V:\3195\66883 (South Section)\CADD Sheets\0366883-sht-xsst-IL47.dgn	USER NAME = bdecreane	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL. RTE. 47 CROSS SECTIONS	F.A.P. RTE. 326	SECTION (110)R, BR & BR-1	COUNTY GRUNDY	TOTAL SHEETS 644	SHEET NO. 486	
PLOT SCALE = 20.0000' / in.	CHECKED -	REVISED -	SCALE: H=10 V=5			SHEET 5 OF 134 SHEETS	STA. 6032+23.4 TO STA. 6032+50	CONTRACT NO. 66883		ILLINOIS FED. AID PROJECT	
PLOT DATE = 8/5/2013	DATE -	REVISED -									

DATE	
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FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS CHECKED
	AREAS CHECKED

DATE	
BY	
ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS CHECKED
	AREAS CHECKED



- PAVEMENT REMOVAL
- TOPSOIL STRIPPING & EARTH EXCAVATION = TSE

FILE NAME = V:\3195\66883 (South Section)\CADD Sheets\036683-sht-xsht-IL47.dgn
 XS.SHEET

USER NAME = bdecaene
 PLOT SCALE = 20.0000' / in.
 PLOT DATE = 8/5/2013

DESIGNED -
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

IL. RTE. 47 CROSS SECTIONS

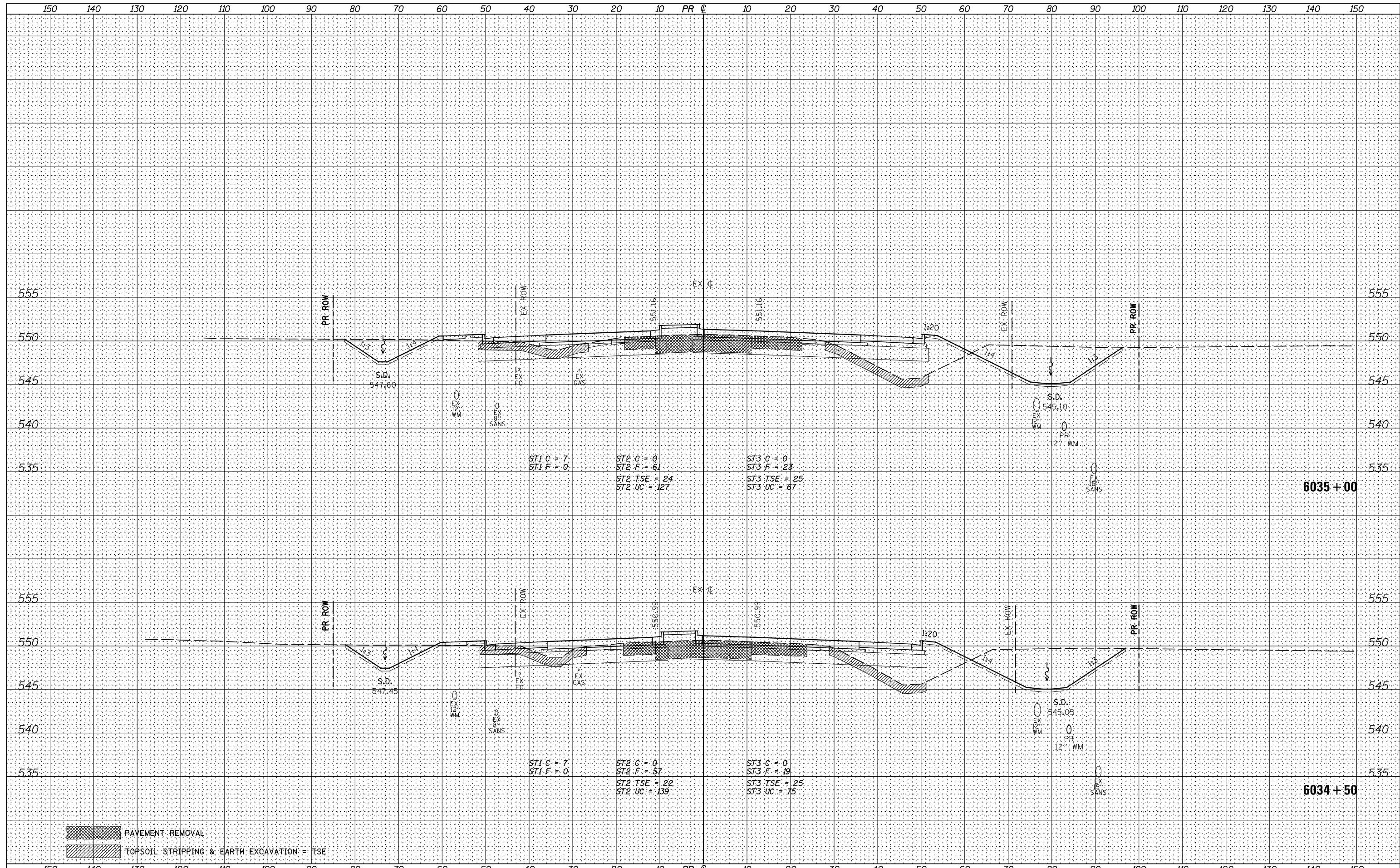
SCALE: H=10 V=5 SHEET 7 OF 134 SHEETS STA. 6034+00 TO STA. 6034+26

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	(110)R, BR & BR-1	GRUNDY	644	488
CONTRACT NO. 66883				

ILLINOIS FED. AID PROJECT

DATE	
BY	
FINAL SURVEY	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
NO.	

DATE	
BY	
ORIGINAL SURVEY	
PLOTTED	
TEMPLATE	
AREAS CHECKED	
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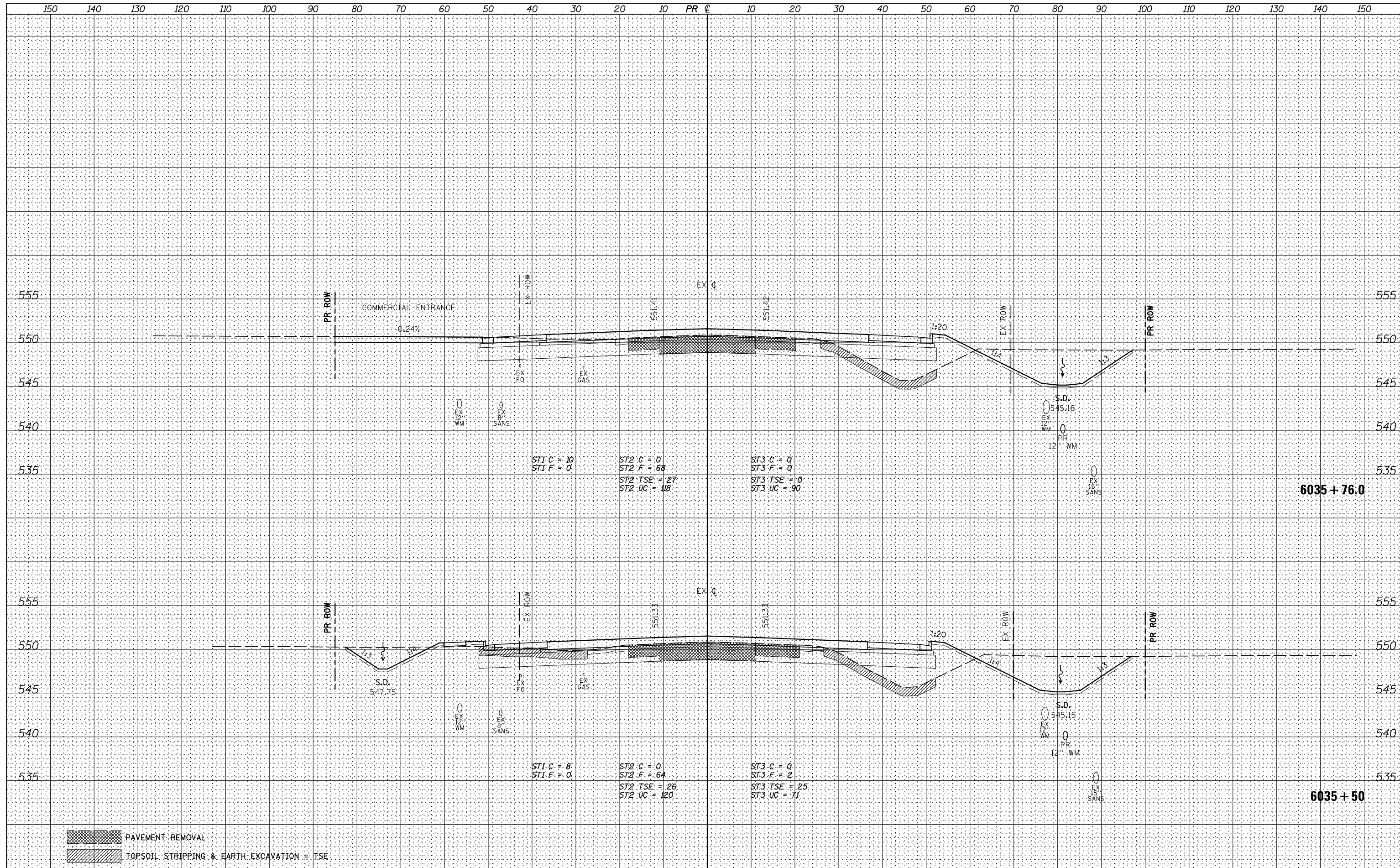
PAVEMENT REMOVAL
 TOPSOIL STRIPPING & EARTH EXCAVATION = TSE

FILE NAME =	USER NAME = bdecreane	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL. RTE. 47 CROSS SECTIONS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
V:\3195\66883 (South Section)\CADD Sheets\0366883-sht-xsht-IL47.dgn		DRAWN -	REVISED -			326	(110)R, BR & BR-1	GRUNDY	644	489
PLOT SCALE = 20.0000' / in.		CHECKED -	REVISED -			CONTRACT NO. 66883				
PLOT DATE = 8/5/2013		DATE -	REVISED -			ILLINOIS FED. AID PROJECT				

SCALE: H=10 V=5 SHEET 8 OF 134 SHEETS STA. 6034+50 TO STA. 6035+00

DATE	
BY	
FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS CHECKED
	AREAS CHECKED

DATE	
BY	
ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS CHECKED
	AREAS CHECKED



PAVEMENT REMOVAL
 TOPSOIL STRIPPING & EARTH EXCAVATION = TSE

FILE NAME = V:\3195\66883 (South Section)\CADD Sheets\0366883-sht-xsht-IL47.dgn	USER NAME = bdecreane	DESIGNED -	REVISED -
PLOT SCALE = 20.0000' / in.		DRAWN -	REVISED -
PLOT DATE = 8/5/2013		CHECKED -	REVISED -
		DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

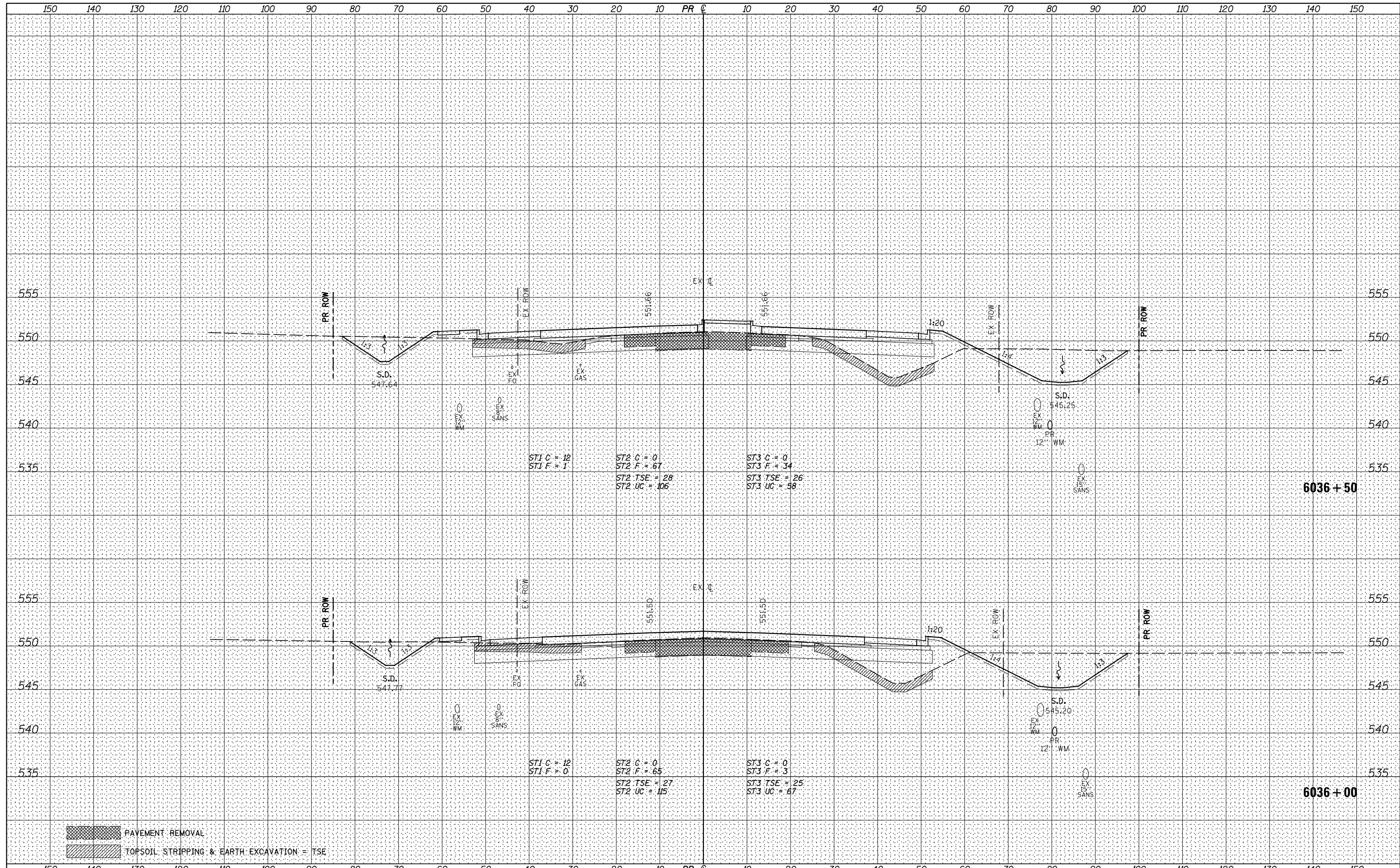
IL. RTE. 47 CROSS SECTIONS

SCALE: H=10 V=5 SHEET 9 OF 134 SHEETS STA. 6035+50 TO STA. 6035+76

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	(110)R, BR & BR-1	GRUNDY	644	490
CONTRACT NO. 66883				
ILLINOIS FED. AID PROJECT				

DATE	
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SURVEYED	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
NO.	

DATE	
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SURVEYED	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
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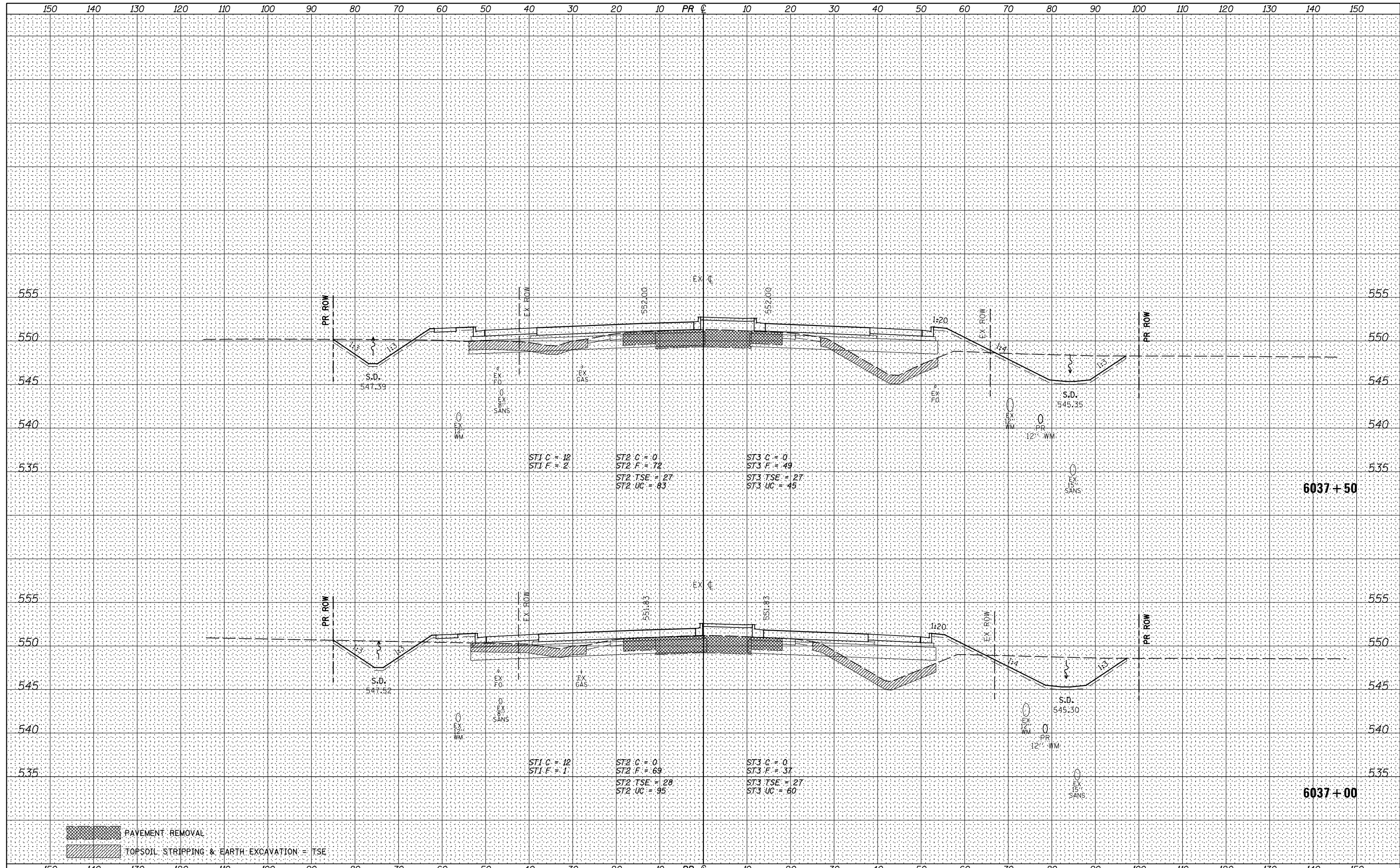


PAVEMENT REMOVAL
 TOPSOIL STRIPPING & EARTH EXCAVATION = TSE

FILE NAME = V:\3195\66883 (South Section)\CADD Sheets\036683-sht-xsht-IL47.dgn	USER NAME = bdecrane	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL. RTE. 47 CROSS SECTIONS SCALE: H=10 V=5 SHEET 10 OF 134 SHEETS STA. 6036+00 TO STA. 6036+50	F.A.P. RTE. 326	SECTION (110)R, BR & BR-1	COUNTY GRUNDY	TOTAL SHEETS 644	SHEET NO. 491
PLOT SCALE = 20.0000' / in.	CHECKED -	REVISED -	CONTRACT NO. 66883							
PLOT DATE = 8/5/2013	DATE -	REVISED -	ILLINOIS FED. AID PROJECT							

DATE	
BY	
FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS CHECKED
	AREAS CHECKED

DATE	
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ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS CHECKED
	AREAS CHECKED



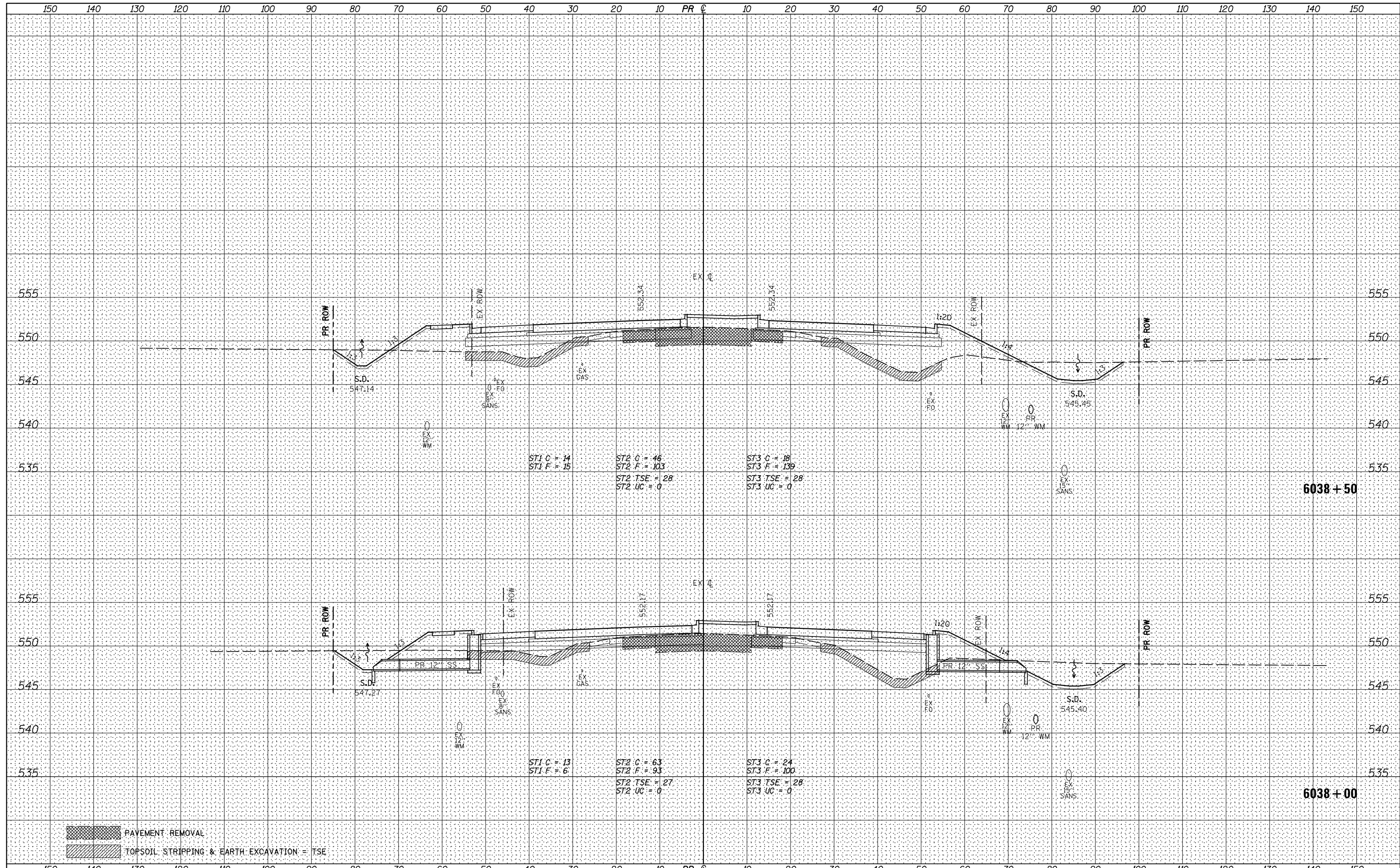
PAVEMENT REMOVAL
 TOPSOIL STRIPPING & EARTH EXCAVATION = TSE

FILE NAME =	USER NAME = bdecreane	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL. RTE. 47 CROSS SECTIONS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
V:\3195\66883 (South Section)\CADD Sheets\0366883-sht-xsst-IL47.dgn		DRAWN -	REVISED -			326	(110)R, BR & BR-1	GRUNDY	644	492
PLOT SCALE = 20.0000' / in.		CHECKED -	REVISED -			CONTRACT NO. 66883				
PLOT DATE = 8/5/2013		DATE -	REVISED -			ILLINOIS FED. AID PROJECT				

SCALE: H=10 V=5 SHEET 11 OF 134 SHEETS STA. 6037+00 TO STA. 6037+50

DATE	
BY	
FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS CHECKED
	AREAS CHECKED

DATE	
BY	
ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS CHECKED
	AREAS CHECKED

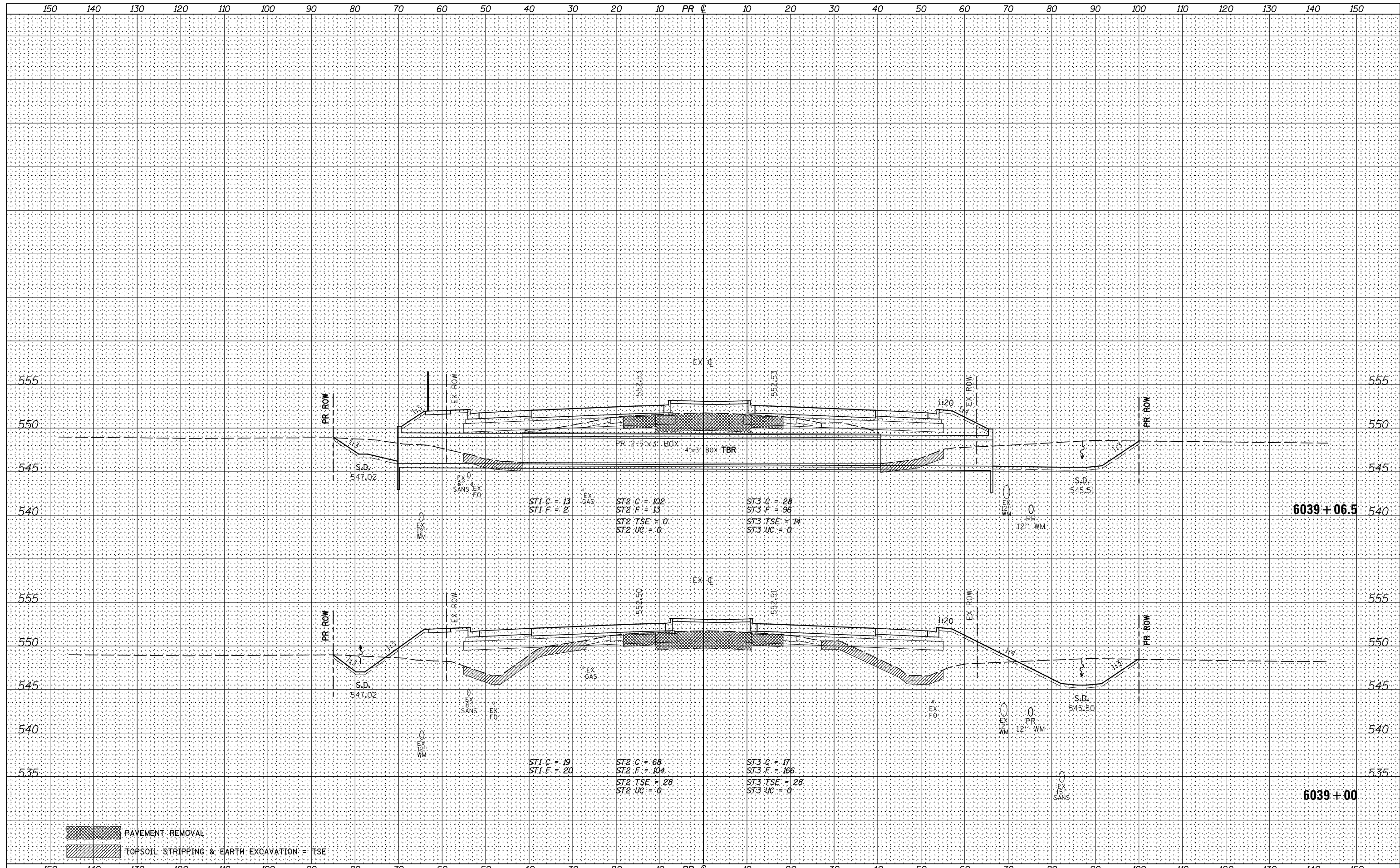


PAVEMENT REMOVAL
 TOPSOIL STRIPPING & EARTH EXCAVATION = TSE

FILE NAME = V:\3195\66883 (South Section)\CADD Sheets\0366883-sh1-xssht-IL47.dgn	USER NAME = bdecreane	DESIGNED -	REVISIED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL. RTE. 47 CROSS SECTIONS SCALE: H=10 V=5 SHEET 12 OF 134 SHEETS STA. 6038+00 TO STA. 6038+50	F.A.P. RTE. 326	SECTION (110)R, BR & BR-1	COUNTY GRUNDY	TOTAL SHEETS 644	SHEET NO. 493
PLOT SCALE = 20.0000' / in.	CHECKED -	REVISIED -	CONTRACT NO. 66883							
PLOT DATE = 8/5/2013	DATE -	REVISIED -	ILLINOIS FED. AID PROJECT							

DATE	
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TEMPLATE	
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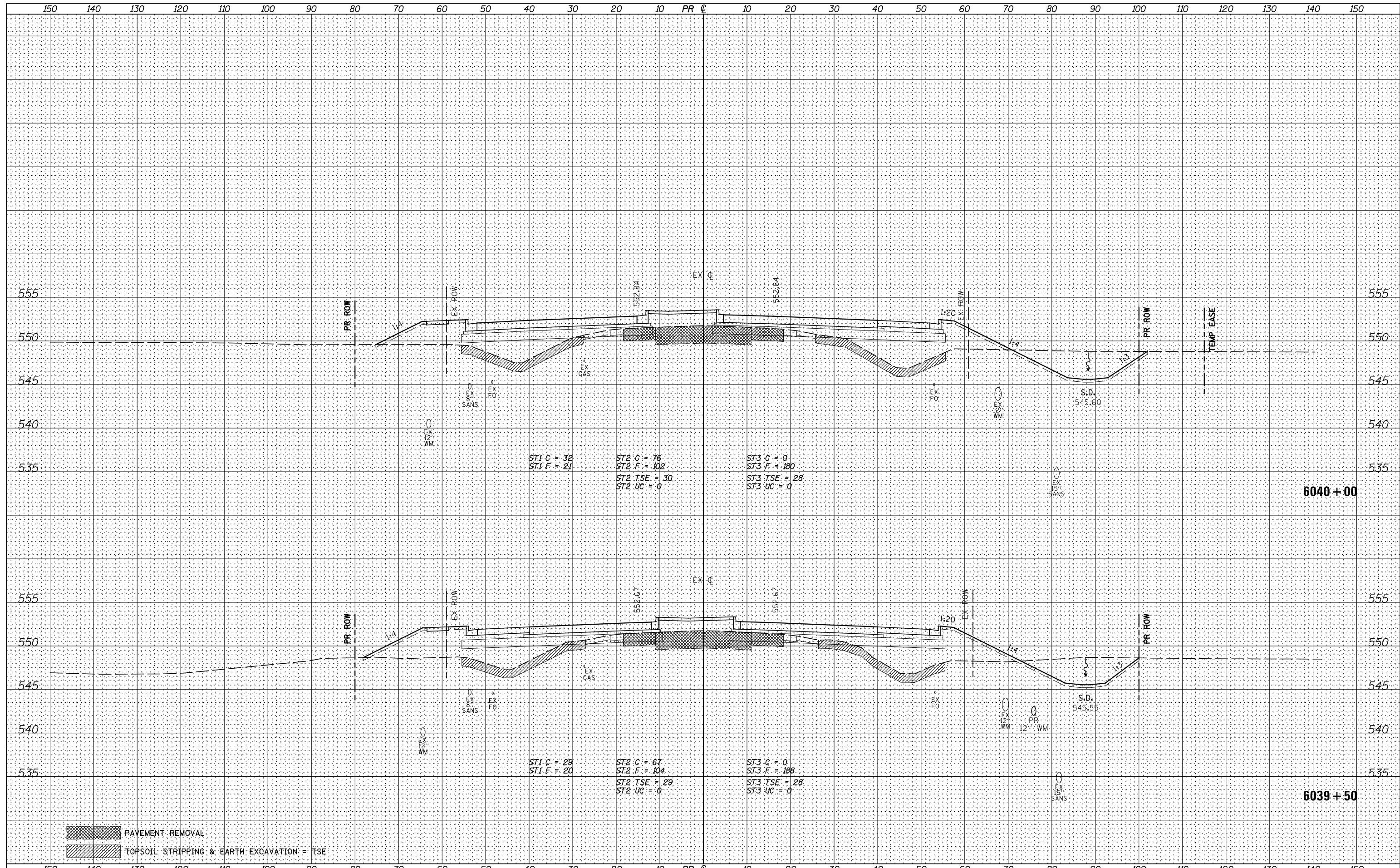


PAVEMENT REMOVAL
 TOPSOIL STRIPPING & EARTH EXCAVATION = TSE

FILE NAME = V:\3195\66883 (South Section)\CADD Sheets\0366883-sht-xsht-IL47.dgn	USER NAME = bdecreane	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL. RTE. 47 CROSS SECTIONS	F.A.P. RTE. 326	SECTION (110)R, BR & BR-1	COUNTY GRUNDY	TOTAL SHEETS 644	SHEET NO. 494	
PLOT SCALE = 20.0000' / in.	CHECKED -	REVISED -	SCALE: H=10 V=5			SHEET 13 OF 134 SHEETS	STA. 6039+00 TO STA. 6039+06.5	CONTRACT NO. 66883		ILLINOIS FED. AID PROJECT	
PLOT DATE = 8/5/2013	DATE -	REVISED -									

DATE	
BY	
FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS CHECKED
	AREAS CHECKED

DATE	
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ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS CHECKED
	AREAS CHECKED

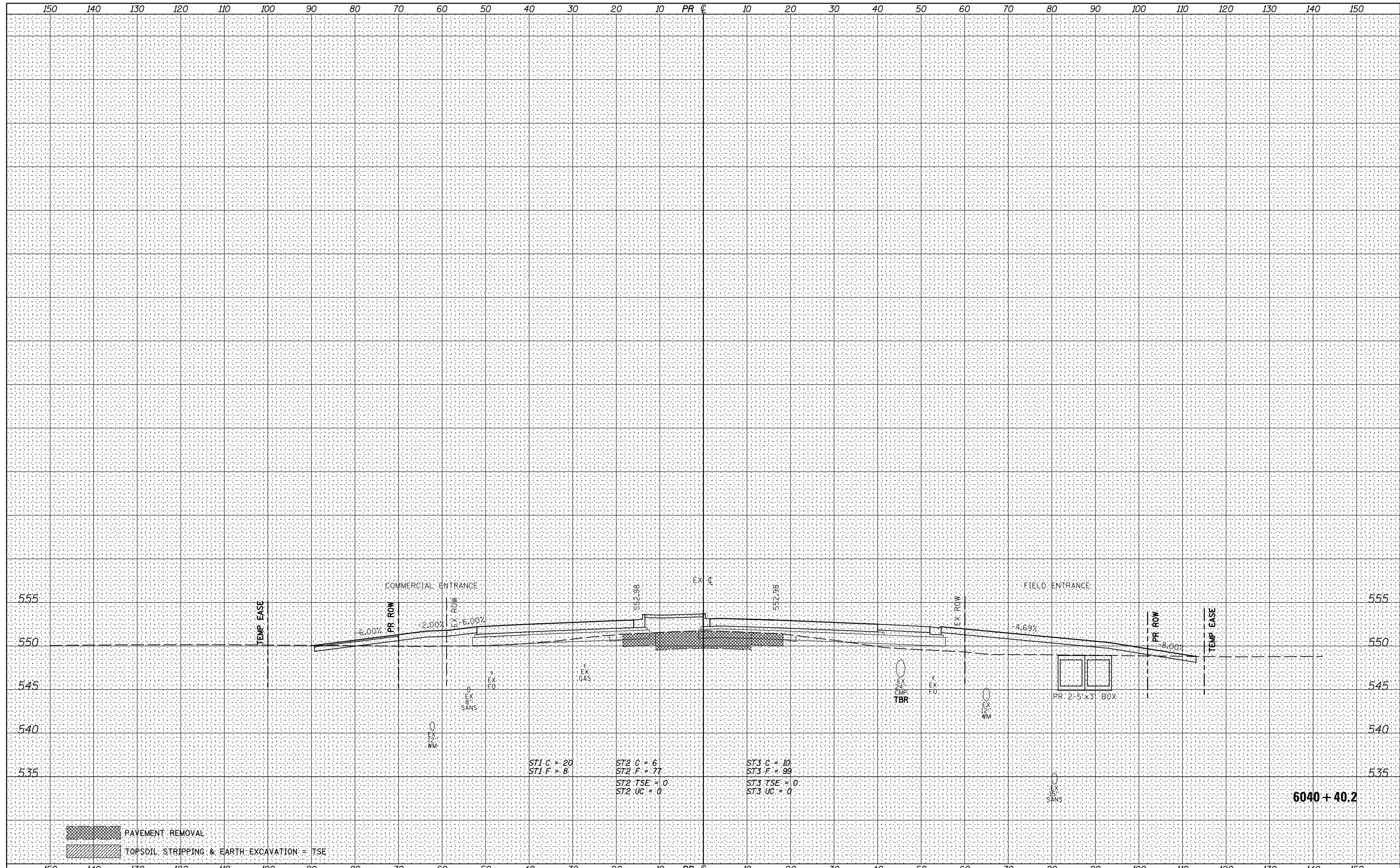


PAVEMENT REMOVAL
 TOPSOIL STRIPPING & EARTH EXCAVATION = TSE

FILE NAME = V:\3195\66883 (South Section)\CADD Sheets\0366883-sht-xsht-IL47.dgn	USER NAME = bdecrane	DESIGNED -	REVISD -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL. RTE. 47 CROSS SECTIONS	F.A.P. RTE. 326	SECTION (110)R, BR & BR-1	COUNTY GRUNDY	TOTAL SHEETS 644	SHEET NO. 495	
PLOT SCALE = 20.0000' / in.	CHECKED -	REVISD -	SCALE: H=10 V=5			SHEET 14 OF 134 SHEETS	STA. 6039+50 TO STA. 6040+00	CONTRACT NO. 66883		ILLINOIS FED. AID PROJECT	
PLOT DATE = 8/5/2013	DATE -	REVISD -									
XS.SHEET											

DATE	
BY	
FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	AREAS CHECKED

DATE	
BY	
ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	AREAS CHECKED



PAVEMENT REMOVAL
 TOPSOIL STRIPPING & EARTH EXCAVATION = TSE

FILE NAME = V:\3195\66883 (South Section)\CADD Sheets\0366883-sht-xsht-IL47.dgn	USER NAME = bdecreane	DESIGNED -	REVISED -
		DRAWN -	REVISED -
		CHECKED -	REVISED -
		DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

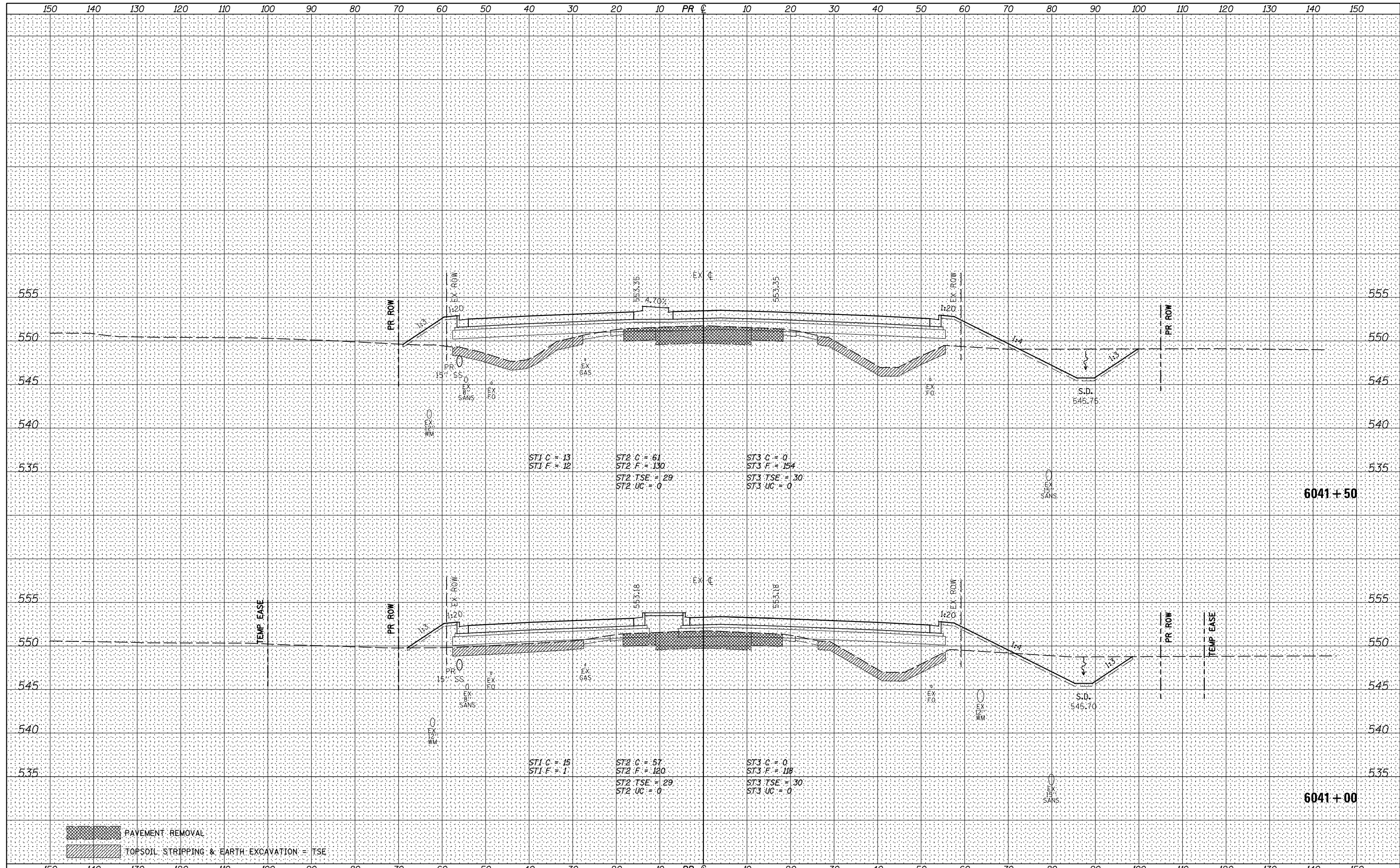
IL. RTE. 47 CROSS SECTIONS


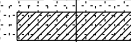
SCALE: H=10 V=5 SHEET 15 OF 134 SHEETS STA. 6040+40.2 TO STA. N/A

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	(110)R, BR & BR-1	GRUNDY	644	496
CONTRACT NO. 66883				
ILLINOIS FED. AID PROJECT				

DATE	
BY	
FINAL SURVEY	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
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DATE	
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ORIGINAL SURVEY	
PLOTTED	
TEMPLATE	
AREAS CHECKED	
NO.	



 PAVEMENT REMOVAL
 TOPSOIL STRIPPING & EARTH EXCAVATION = TSE

FILE NAME =	USER NAME = bdecrane	DESIGNED -	REVISED -
V:\3195\66883 (South Section)\CADD Sheets\0366883-sht-xsst-IL47.dgn		DRAWN -	REVISED -
		CHECKED -	REVISED -
		DATE -	REVISED -
XS.SHEET	PLOT DATE = 8/5/2013		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL. RTE. 47 CROSS SECTIONS

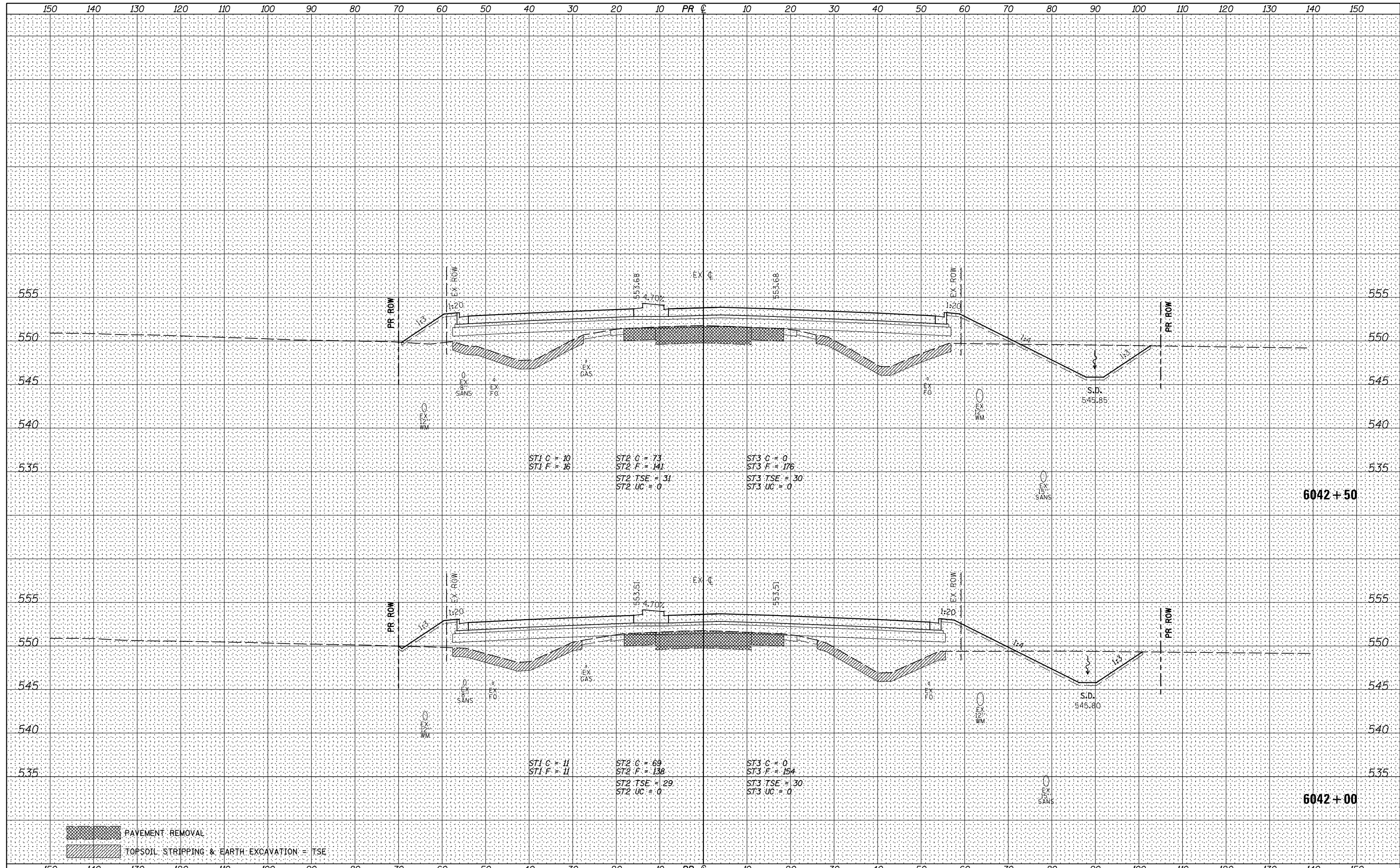
SCALE: H=10 V=5 SHEET 17 OF 134 SHEETS STA. 6041+00 TO STA. 6041+50

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	(110)R, BR & BR-1	GRUNDY	644	498
CONTRACT NO. 66883				

ILLINOIS FED. AID PROJECT

DATE	
BY	
FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS CHECKED
	AREAS CHECKED

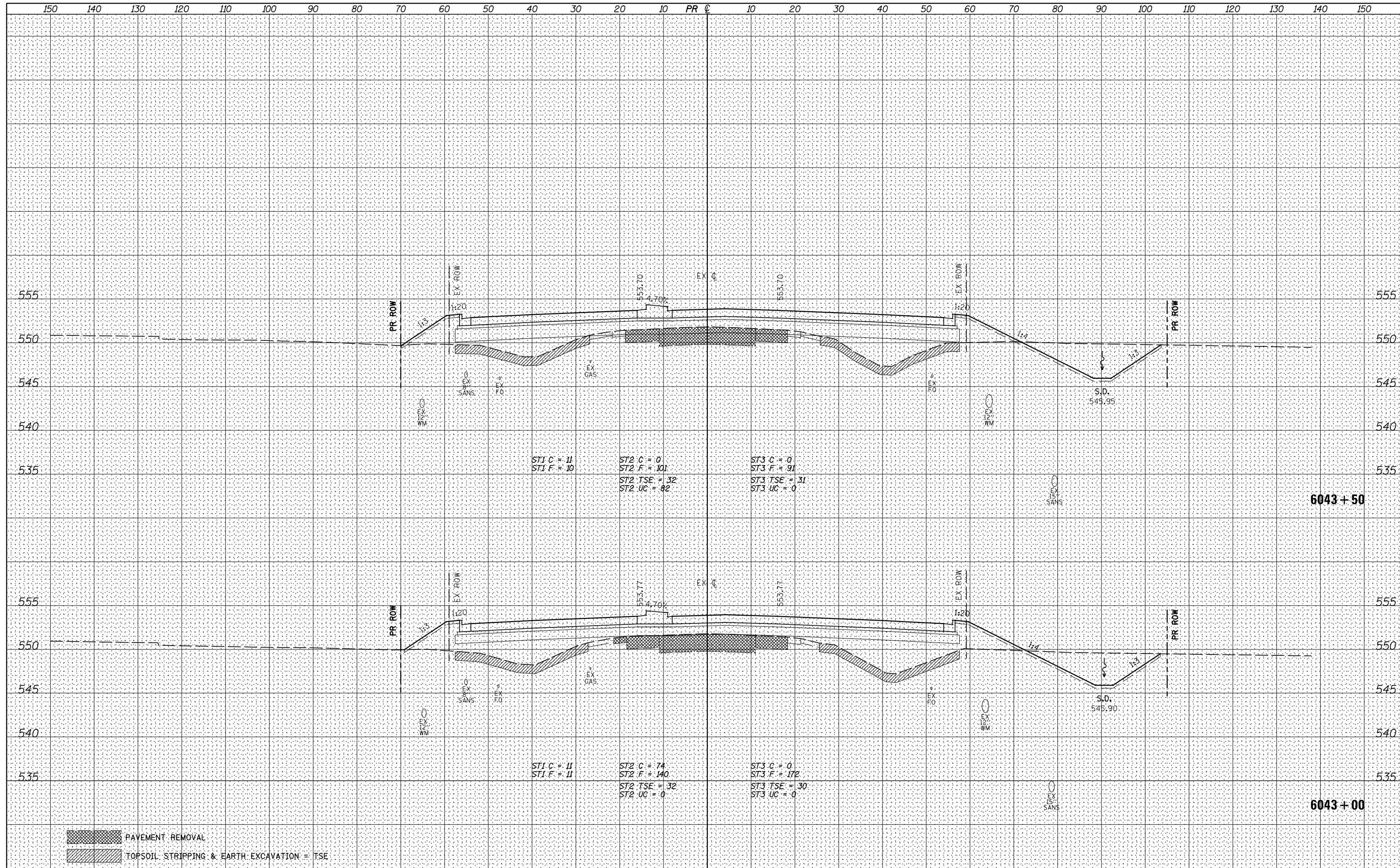
DATE	
BY	
ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS CHECKED
	AREAS CHECKED



FILE NAME = V:\3195\66883 (South Section)\CADD Sheets\0366883-sht-xsst-IL47.dgn	USER NAME = bdecrane	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL. RTE. 47 CROSS SECTIONS	F.A.P. RTE. 326	SECTION (110)R, BR & BR-1	COUNTY GRUNDY	TOTAL SHEETS 644	SHEET NO. 499	
PLOT SCALE = 20.0000' / in.	CHECKED -	REVISED -	SCALE: H=10 V=5			SHEET 18 OF 134 SHEETS	STA. 6042+00 TO STA. 6042+50	CONTRACT NO. 66883		ILLINOIS FED. AID PROJECT	
PLOT DATE = 8/5/2013	DATE -	REVISED -									

DATE	
BY	
FINISHED SURVEY	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
NO.	

DATE	
BY	
ORIGINAL SURVEY	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
NO.	



PAVEMENT REMOVAL
 TOPSOIL STRIPPING & EARTH EXCAVATION = TSE

FILE NAME =	USER NAME = bdecreane	DESIGNED -	REVISED -
V:\3195\66883 (South Section)\CADD Sheets\0366883-sht-xsht-IL47.dgn		DRAWN -	REVISED -
		CHECKED -	REVISED -
		DATE -	REVISED -
XS.SHEET	PLOT DATE = 8/5/2013		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL. RTE. 47 CROSS SECTIONS

SCALE: H=10 V=5 SHEET 19 OF 134 SHEETS STA. 6043+00 TO STA. 6043+50

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	(110)R, BR & BR-1	GRUNDY	644	500
CONTRACT NO. 66883				

ILLINOIS FED. AID PROJECT