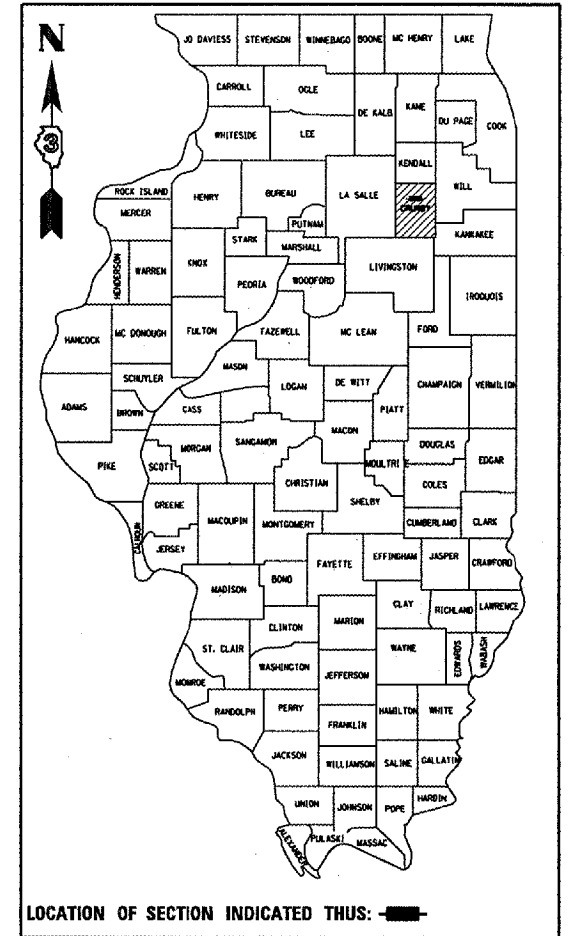


F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	(32,47-4)RA-2	GRUNDY	19	1
FED. ROAD DIST. NO. ILLINOIS		STATE AID PROJECT		

D-93-002-07



FUNCTIONAL CLASSIFICATION
 RURAL: INTERSTATE
 FAI ROUTE 80 (I-80)
 2005 ADT = 35700
 P.V = 68.6% M.U. = 24.6% S.U. = 6.7%

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS

SUBMITTED DEC 20 06
 DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER
February 2, 2007
 Eric E. Hart
 REGIONAL ENGINEER OF DESIGN AND ENVIRONMENT
February 2, 2007
 Milton R. Sees, P.E.
 DIRECTOR, DIVISION OF HIGHWAYS

PRINTED BY THE AUTHORITY
 OF THE STATE OF ILLINOIS

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS
**PROPOSED
 HIGHWAY PLANS**
 FAI ROUTE 80 (I-80)
 SECTION (32, 47-4)RA-2
 PROJECT
 GRUNDY COUNTY

C-93-020-07
**CONCRETE STAIR REMOVAL AND REPLACEMENT
 AND WATER MAIN INSTALLATION**

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2. GENERAL NOTES
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6. GENERAL SITE PLAN - EASTBOUND REST AREA
7. EXISTING STAIRWAY DETAILS - EASTBOUND REST AREA
8. PROPOSED STAIRWAY DETAILS - EASTBOUND REST AREA
9. GENERAL SITE PLAN - WESTBOUND REST AREA
10. SITE PLAN - WESTBOUND REST AREA
11. WATER MAIN LAYOUT DETAILS
- 12 - 13. METER VAULT, SPECIAL DETAILS
14. FIRE HYDRANT INSTALLATION DETAILS
15. VALVE VAULT, TYPE A, 4' DIAMETER
16. TYPE 1 FRAME, CLOSED LID
17. THRUST BLOCK DETAILS
18. TRENCH BACKFILL DETAILS
19. SIDEWALK DETAILS

STANDARDS

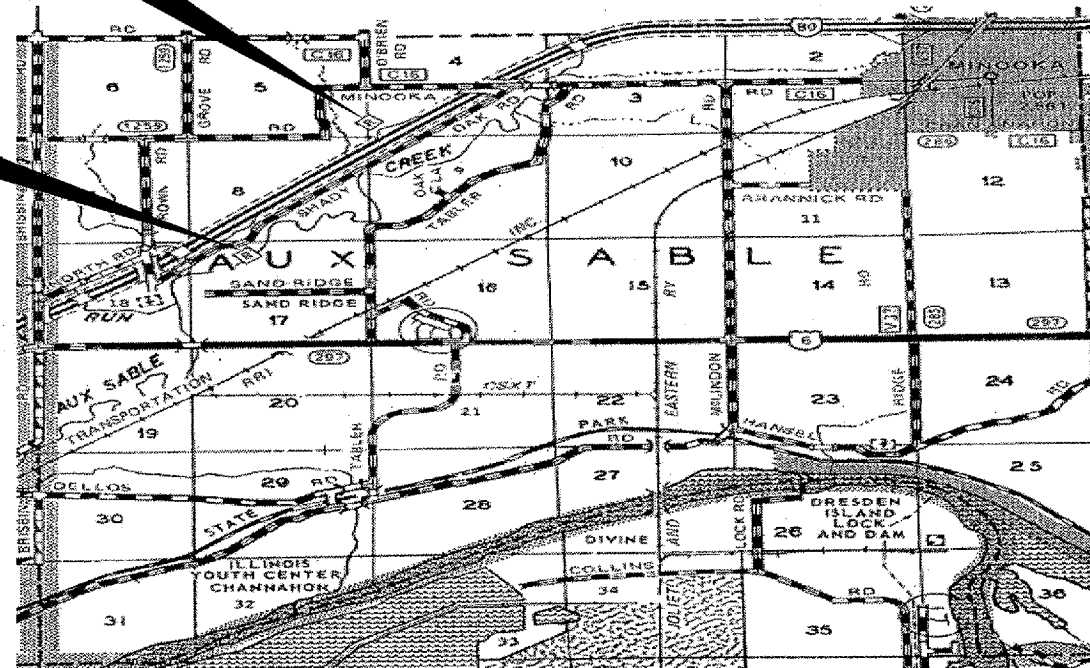
- 000001-04 STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
- 602501 VALVE VAULT, TYPE A
- 602601-01 PRECAST REINFORCED CONCRETE FLAT SLAB TOP
- 602701-01 CAST IRON STEPS
- 665001-01 WOVEN WIRE FENCE
- 701801-03 LANE CLOSURE, MULTILANE 1W OR 2W CROSSWALK OR SIDEWALK CLOSURE
- 702001-06 TRAFFIC CONTROL DEVICES

PROJECT LOCATION

THREE RIVERS REST AREA
 FAI 80 WESTBOUND

PROJECT LOCATION

THREE RIVERS REST AREA
 FAI 80 EASTBOUND



LOCATION MAP
 SPOT IMPROVEMENT

MICROFILMED _____
 REEL NUMBER _____
 AWARDED _____
 RESIDENT ENGINEER _____
 AS BUILT CHANGES WERE MADE
 ON THE FOLLOWING SHEETS _____

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

DISTRICT 3 NO. (815) 434-6131

PROJECT ENGINEER: TOM HUFNAGEL (815) 434-8418
 UNIT CHIEF: RON WOODSHANK (815) 434-8419

CONTRACT NO. 66695

DATE: 10/12/2006 C:/projects/rest area/three rivers/details.dgn

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	(32,47-4)RA-2	GRUNDY	19	2
FED. ROAD DIST. NO. - ILLINOIS		STATE AID PROJECT		

GENERAL NOTES

PLAN DIMENSIONS AND DETAILS RELATIVE TO EXISTING ROADWAY OR STRUCTURE HAVE BEEN TAKEN FROM EXISTING PLANS AND ARE SUBJECT TO NOMINAL CONSTRUCTION VARIATIONS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY SUCH DIMENSIONS AND DETAILS IN THE FIELD AND TO MAKE NECESSARY APPROVED ADJUSTMENTS PRIOR TO CONSTRUCTION OR ORDERING OF MATERIALS. SUCH VARIATIONS SHALL NOT BE CAUSE FOR ADDITIONAL COMPENSATION FOR A CHANGE IN THE SCOPE OF THE WORK, HOWEVER, THE CONTRACTOR WILL BE PAID FOR THE QUANTITY ACTUALLY FURNISHED AT THE UNIT BID FOR THE WORK.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING UTILITY PROPERTY FROM CONSTRUCTION OPERATIONS AS OUTLINED IN ARTICLE 107.31 OF THE STANDARD SPECIFICATIONS. THE "JULIE" NUMBER IS 1-800-892-0123. A MINIMUM OF FORTY-EIGHT (48) HOURS ADVANCE NOTICE IS REQUIRED.

THE COST OF ANY SAW CUTS MADE TO COMPLETE THE WORK AS DESCRIBED IN PLAN DETAILS, UNLESS OTHERWISE NOTED SHALL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED WITH THE VARIOUS PAY REMOVAL PAY ITEMS INVOLVED.

WHERE SECTION OR SUBSECTION MONUMENTS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL MONUMENTS UNTIL AN AUTHORIZED SURVEYOR OR AGENT HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR HAVING AN AUTHORIZED SURVEYOR REESTABLISH ANY SECTION OR SUBSECTION MONUMENTS DESTROYED BY HIS OPERATIONS.

FOR STABILIZATION, ALL TYPE III BARRICADES SHALL REQUIRE A MINIMUM OF FOUR SAND BAGS PER BARRICADE.

SEEDING SHALL NOT BE PERMITTED AT ANY TIME WHEN THE GROUND IS FROZEN, WET, OR IN AN UNTILLABLE CONDITION. LOCATIONS TO BE SEEDED WILL BE DETERMINED BY THE ENGINEER.

THE CONTRACTOR SHALL PROTECT ALL TREES, BUSHES AND SHRUBS FROM DAMAGE DUE TO HIS OPERATIONS.

THE FINISHED EARTHWORK SHALL HAVE A VEGETATION SUSTAINING SOIL COVERING THE TOP FOUR INCHES IN AREAS TO BE SEEDED OR SODDED. THE VEGETATION SUSTAINING SOIL REQUIRED WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF FURNISHED EXCAVATION.

ABANDONED UNDERGROUND UTILITIES THAT CONFLICT WITH CONSTRUCTION SHALL BE DISPOSED OF OUTSIDE THE LIMITS OF THE RIGHT OF WAY ACCORDING TO ARTICLE 202.03 OF THE STANDARD SPECIFICATIONS AND AS DIRECTED BY THE ENGINEER. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE COST OF EARTH EXCAVATION.

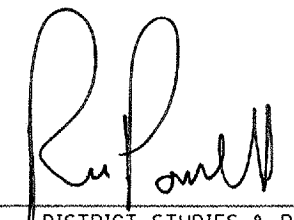
ANY REFERENCE TO A STANDARD IN THESE PLANS SHALL BE INTERPRETED TO MEAN THE EDITION AS INDICATED BY THE SUBNUMBER SHOWN IN THE LIST OF STANDARDS INCLUDED IN THESE PLANS.

THE CONTRACTOR'S ATTENTION IS DIRECTED TO THE PRESENCE OF DEPARTMENT-OWNED UNDERGROUND ELECTRICAL CABLE WITHIN THE LIMITS OF THE PROPOSED IMPROVEMENT. THE CONTRACTOR SHALL REQUEST THE ILLINOIS DEPARTMENT OF TRANSPORTATION IN OTTAWA (815-434-8417) TO LOCATE THE UNDERGROUND FACILITIES, PROVIDING A MINIMUM OF 72 HOURS NOTICE. THE DEPARTMENT IS NOT A MEMBER OF THE JOINT UTILITY LOCATING INFORMATION FOR EXCAVATORS (JULIE) SYSTEM.


ALL DAMAGE TO DEPARTMENT OWNED UNDERGROUND FACILITIES, CAUSED BY THE CONTRACTOR SHALL BE REPAIRED TO THE SATISFACTION OF THE DEPARTMENT AT THE CONTRACTOR'S EXPENSE. THIS SHALL INCLUDE ALL TEMPORARY REPAIRS REQUIRED TO KEEP THE FACILITY OPERATIONAL WHILE MATERIAL IS BEING OBTAINED TO MAKE PERMANENT REPAIRS. SPLICING OF ELECTRIC CABLE SHALL NOT BE ALLOWED. ELECTRIC CABLE SHALL BE REPLACED FROM POLE TO POLE OR CONTROLLER.

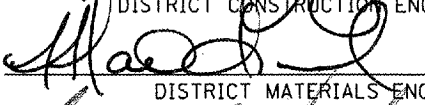
THE FOLLOWING RATES OF APPLICATION HAVE BEEN USED IN CALCULATING PLAN QUANTITIES:

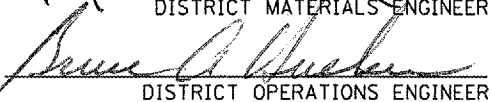
GRANULAR MATERIALS	2.05	TONS / CU YD
--------------------	------	--------------

PREPARED BY:  DISTRICT STUDIES & PLANS ENGINEER

DATE: 12.20.06

EXAMINED BY:  DISTRICT CONSTRUCTION ENGINEER

 DISTRICT MATERIALS ENGINEER

 DISTRICT OPERATIONS ENGINEER

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION
NAME	DATE	
		<p>GENERAL NOTES F.A.I. ROUTE 80 SECTION (32,47-4)RA-2 GRUNDY COUNTY</p>

DATE: 10/12/2006
C:/projects/rest area/three rivers/details.dgn

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	(32,47-4)RA-2	GRUNDY	18	3
FED. ROAD DIST. NO.		ILLINOIS	STATE AID PROJECT	

SUMMARY OF QUANTITIES

CONSTRUCTION CODE TYPE: Y022

RURAL
100% STATE
TOTAL
QUANTITY

CODE NO.	ITEM	UNIT	RURAL 100% STATE TOTAL QUANTITY
20200100	EARTH EXCAVATION	CU YD	16
20400800	FURNISHED EXCAVATION	CU YD	10
20800150	TRENCH BACKFILL	CU YD	53
25000100	SEEDING, CLASS 1	ACRE	0.07
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	6
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	6
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	6
25100630	EROSION CONTROL BLANKET	SQ YD	330
31100300	SUB-BASE GRANULAR MATERIAL, TYPE A 4"	SQ YD	113
42001200	PAVEMENT FABRIC	SQ YD	104
42400300	PORTLAND CEMENT CONCRETE SIDEWALK 6"	SQ FT	702

DATE: 10/12/2006
C:/projects/rest area/three rivers/details.dgn

* SPECIALTY ITEM

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES
F.A.I. ROUTE 80
SECTION (32,47-4)RA-2
GRUNDY COUNTY

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	(32,47-4)RA-2	GRUNDY	19	4
FED. ROAD DIST. NO.		ILLINOIS	STATE AID PROJECT	

SUMMARY OF QUANTITIES

CONSTRUCTION CODE TYPE: Y022

CODE NO.	ITEM	UNIT	100% STATE TOTAL QUANTITY
44000600	SIDEWALK REMOVAL	SQ FT	752
50900605	HANDRAIL REMOVAL	FOOT	50
50901760	PIPE HANDRAIL	FOOT	60
*56103100	DUCTILE IRON WATER MAIN 8"	FOOT	206
*56201100	WATER SERVICE LINE 3"	FOOT	5
*56201120	WATER SERVICE LINE 4"	FOOT	115
*56400500	FIRE HYDRANTS TO BE REMOVED	EACH	2
*56400820	FIRE HYDRANT WITH AUXILIARY VALVE AND VALVE BOX	EACH	1
*60248700	VALVE VAULT, TYPE A, 4' DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	1
*60250100	METER VAULTS, SPECIAL	EACH	1
*60266910	VALVE BOXES TO BE REMOVED	EACH	2

DATE: 10/12/2006
C:/projects/rest area/three rivers/details.dgn

* SPECIALTY ITEM

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
SUMMARY OF QUANTITIES
F.A.I. ROUTE 80
SECTION (32,47-4)RA-2
GRUNDY COUNTY

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	(32,47-4)RA-2	GRUNDY	19	5
FED. ROAD DIST. NO.	ILLINOIS	STATE AID PROJECT		

SUMMARY OF QUANTITIES

CONSTRUCTION CODE TYPE:

Y022

CODE NO.	ITEM	UNIT	100% STATE TOTAL QUANTITY
66502400	WOVEN WIRE FENCE TO BE REMOVED AND RE-ERECTED	FOOT	100
67100100	MOBILIZATION	L SUM	1
70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	L SUM	1
* XX000836	PRESSURE TESTING AND DISINFECTION	L SUM	1
* XX004731	CONNECTION TO EXISTING WATERMAIN	EACH	1
XX004764	REMOVAL OF EXISTING CONCRETE STAIRS 1	EACH	1
XX004951	CONCRETE STAIRS	L SUM	1
* X0300188	WATER SERVICE CONNECTION	L SUM	1
* X0321720	WATER MAIN REMOVAL	FOOT	10
Z0075310	TIE BARS 3/4"	EACH	100
Z0077700	WOOD FENCE TO BE REMOVED AND RE-ERECTED	FOOT	10

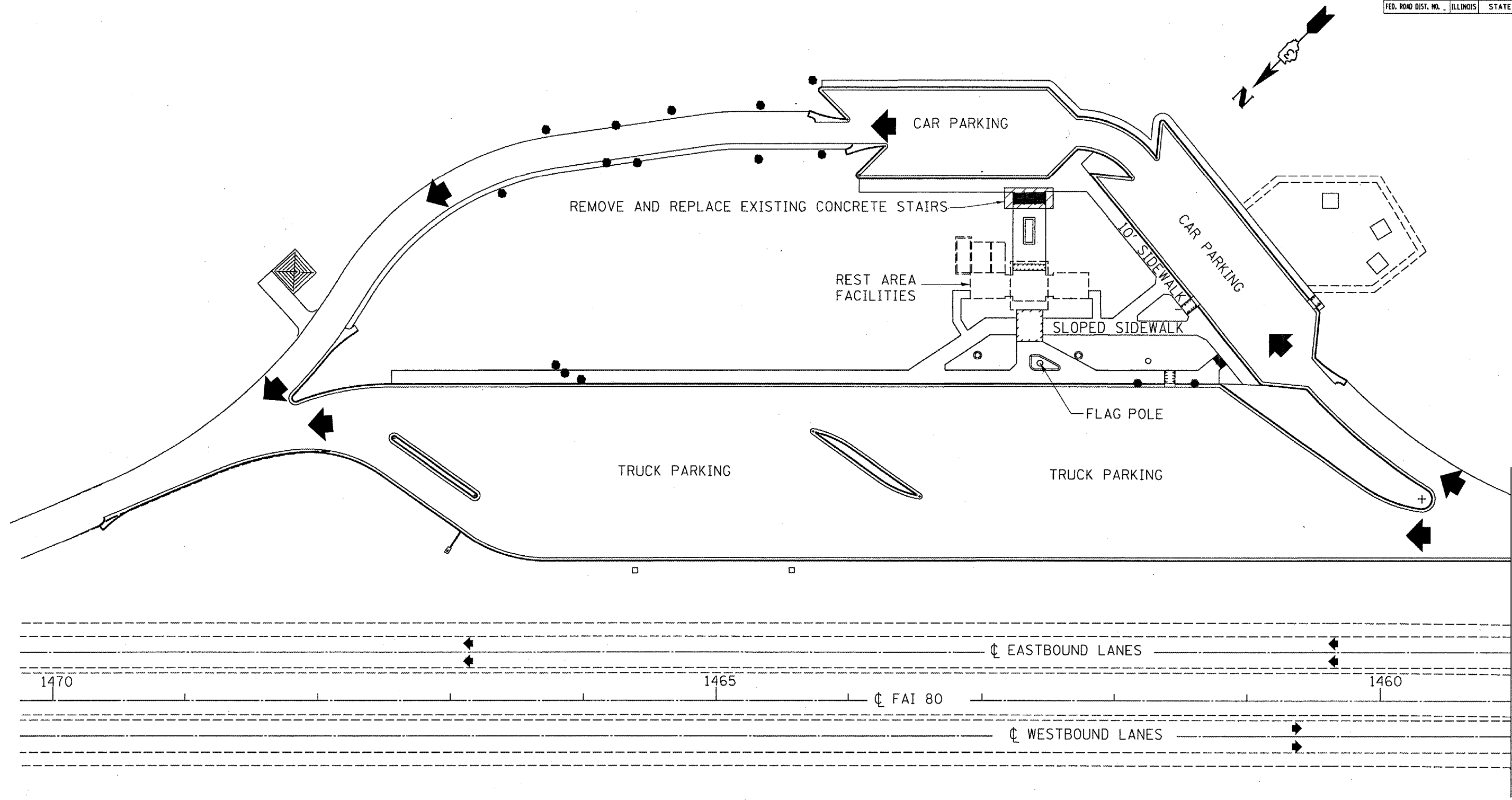
DATE: 10/12/2006
C:/projects/rest area/three rivers/details.dgn

* SPECIALTY ITEM

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
SUMMARY OF QUANTITIES
F.A.I. ROUTE 80
SECTION (32,47-4)RA-2
GRUNDY COUNTY

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	(32,47-4)RA-2	GRUNDY	19	6
FED. ROAD DIST. NO.	ILLINOIS	STATE AID PROJECT		



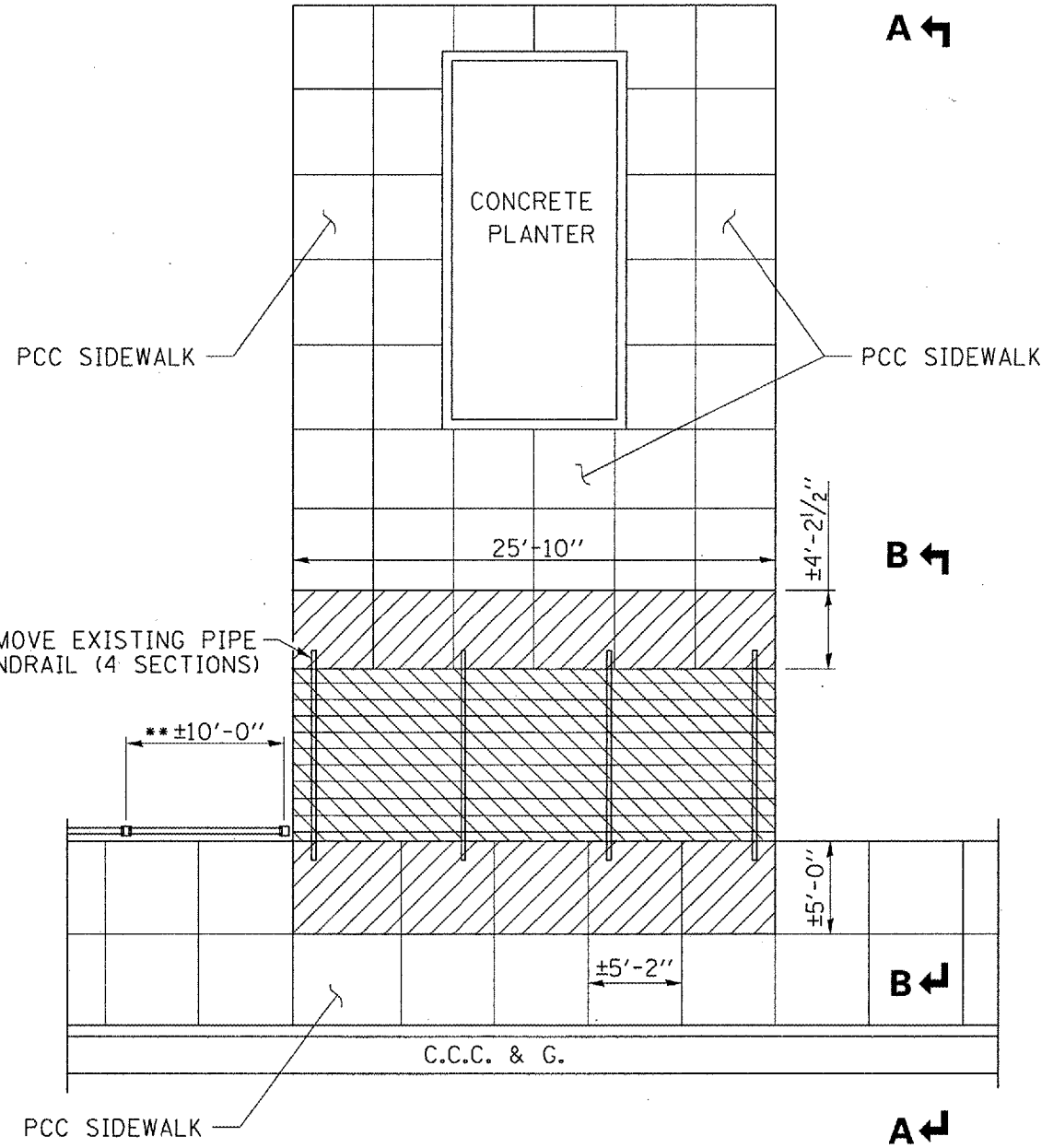
PLAN

DATE: 10/12/2006
C:/projects/rest area/three rivers/details.dgn

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
GENERAL SITE PLAN
EASTBOUND REST AREA
 F.A.I. ROUTE 80
 SECTION (32,47-4)RA-2
 GRUNDY COUNTY

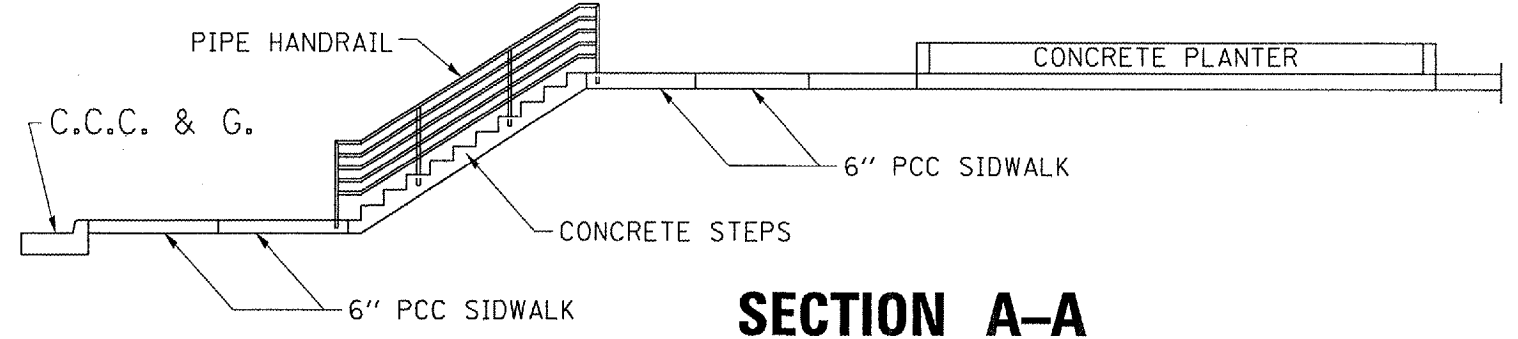
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80	132,47-4)RA-2	GRUNDY	19	7
FED. ROAD DIST. NO. ILLINOIS		STATE AID PROJECT		



PLAN

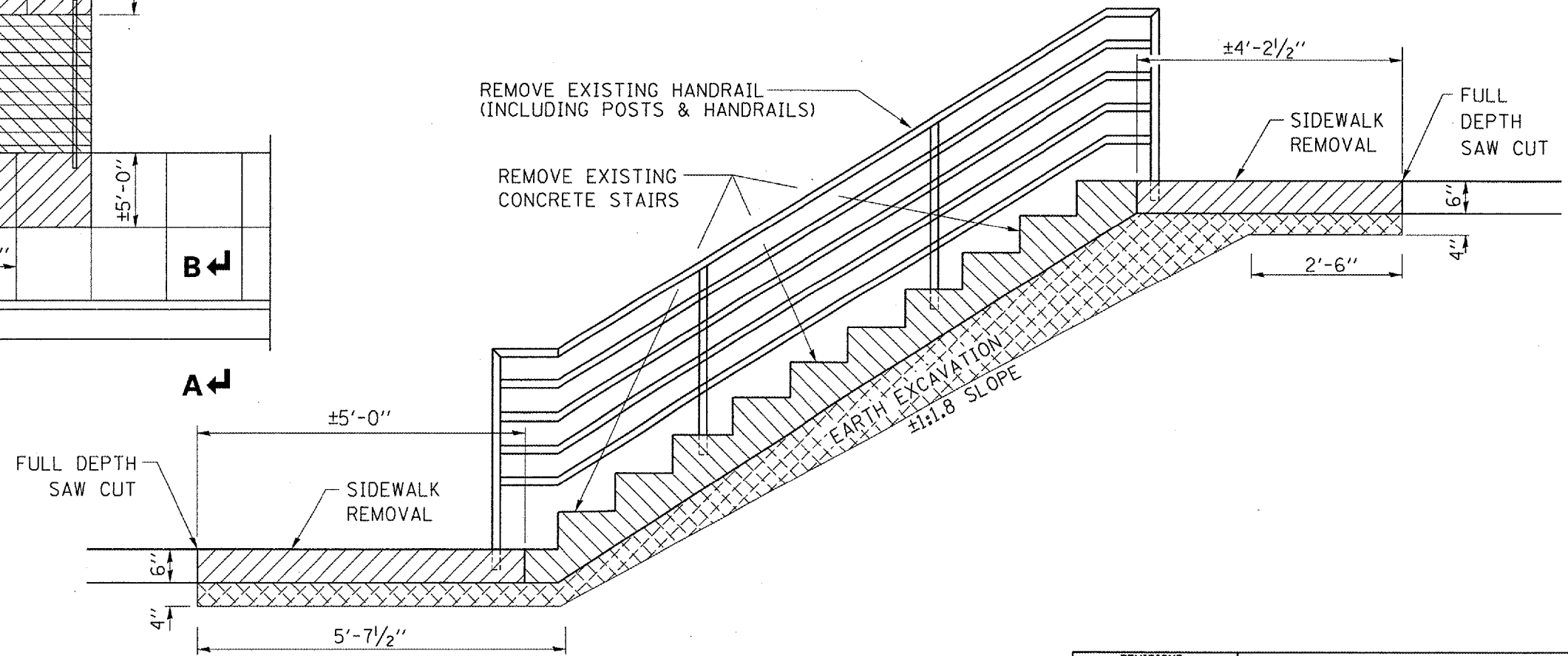
** WOOD FENCE TO BE REMOVED AND RE-ERECTED

**



SECTION A-A

TOTAL RISE = 5'-10"
TOTAL RUN = 8'-0"



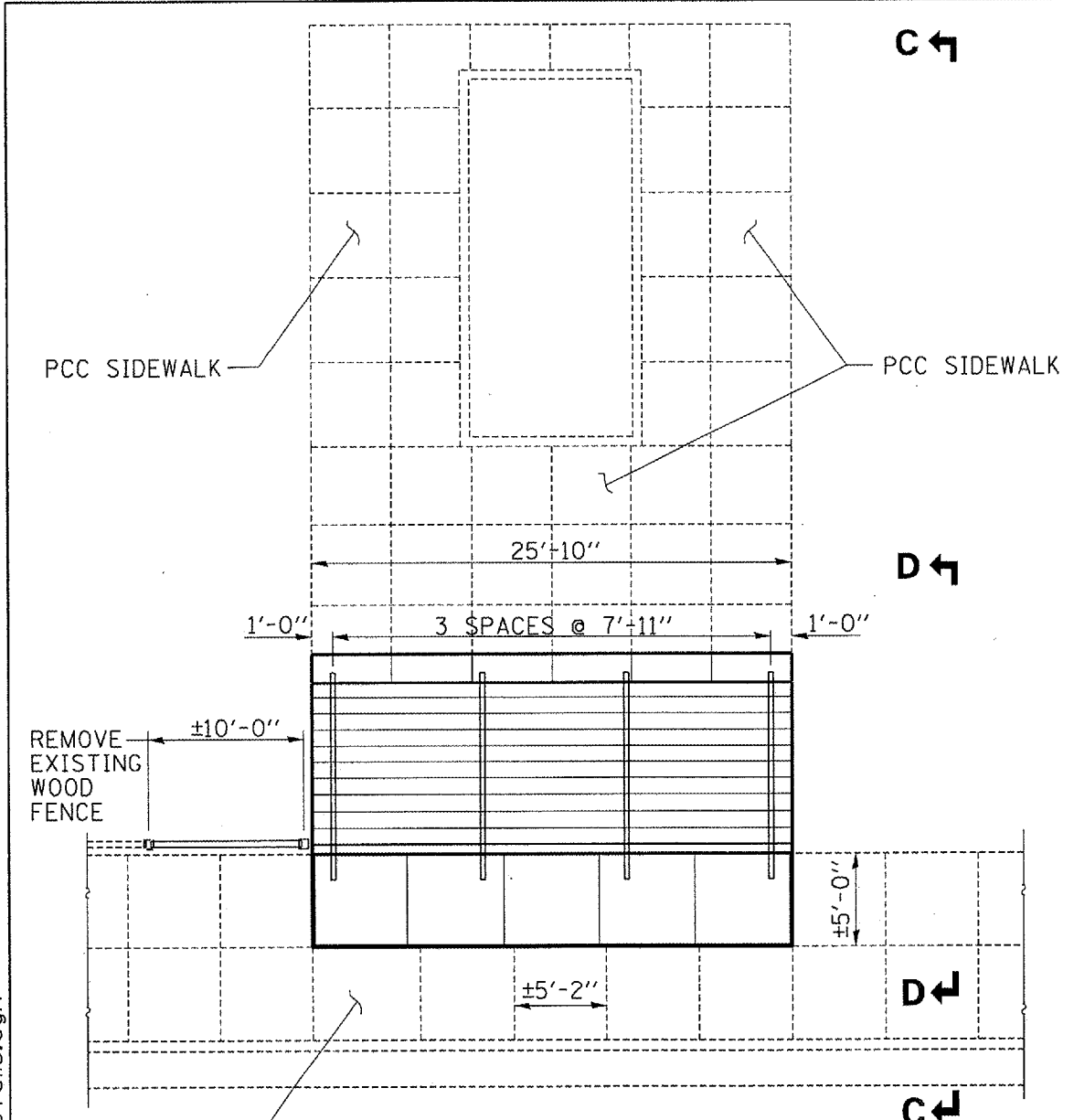
SECTION B-B

REVISIONS	
NAME	DATE

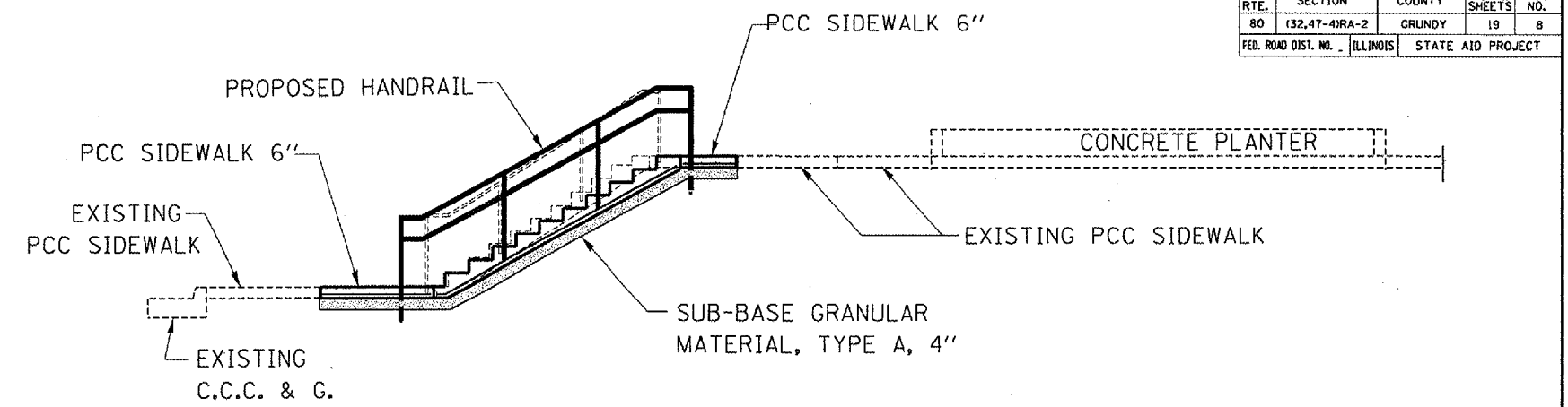
ILLINOIS DEPARTMENT OF TRANSPORTATION
EXISTING STAIRWAY DETAILS
EASTBOUND REST AREA
F.A.I. ROUTE 80
SECTION (32,47-4)RA-2
GRUNDY COUNTY

DATE: 10/12/2006
C:/projects/rest area/three rivers/details.dgn

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	(32,47-4)RA-2	GRUNDY	19	8
FED. ROAD DIST. NO.		ILLINOIS	STATE AID PROJECT	

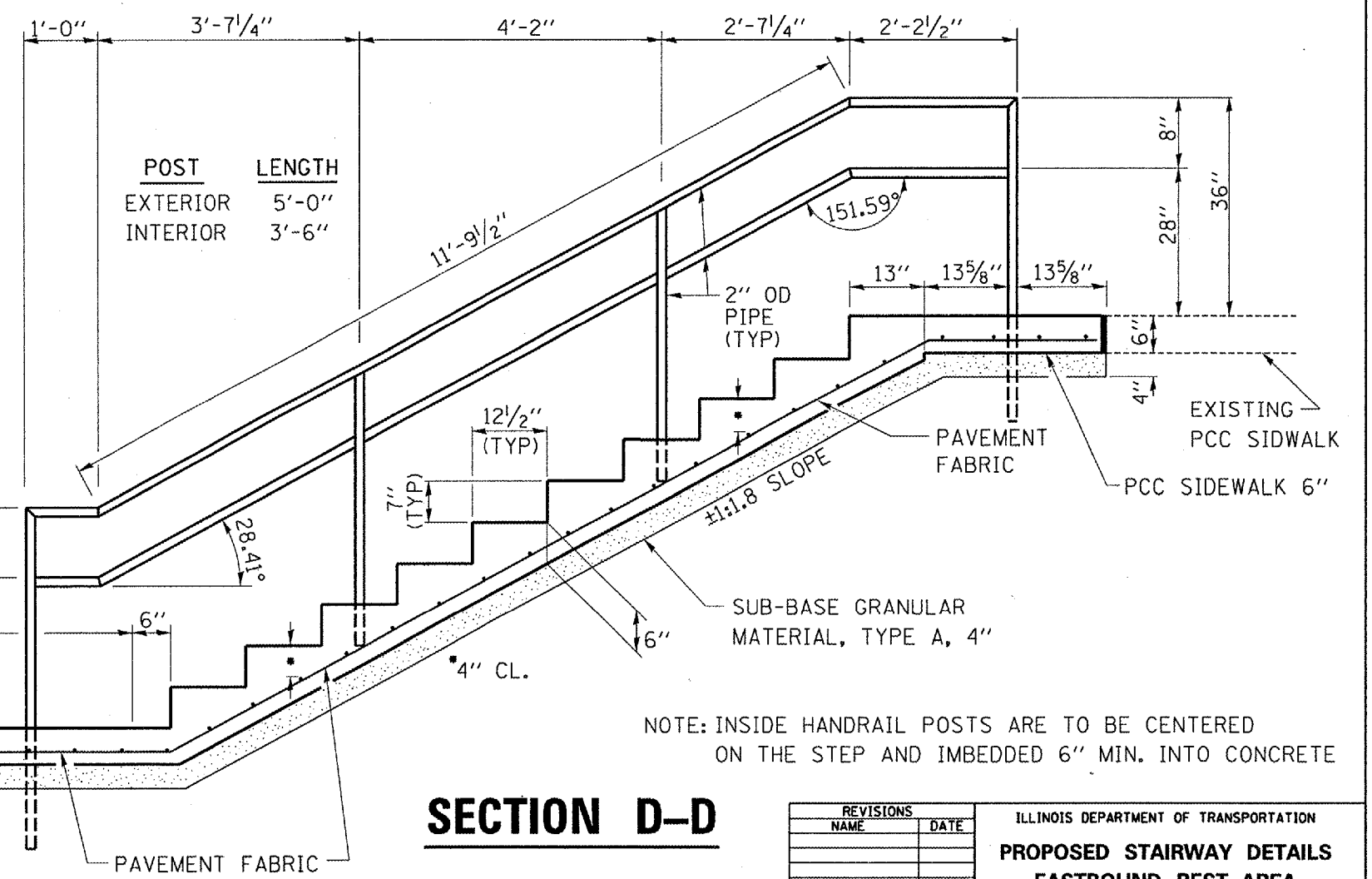


PLAN



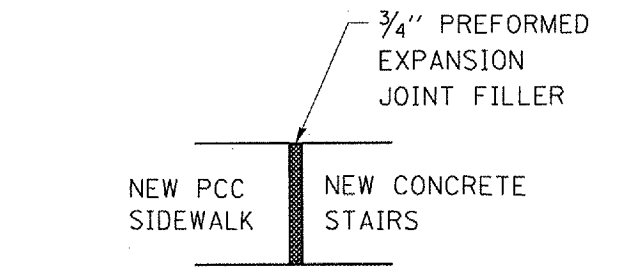
SECTION C-C

TOTAL RISE = 5'-10"
TOTAL RUN = 10'-2"



SECTION D-D

NOTE: INSIDE HANDRAIL POSTS ARE TO BE CENTERED ON THE STEP AND IMBEDDED 6" MIN. INTO CONCRETE



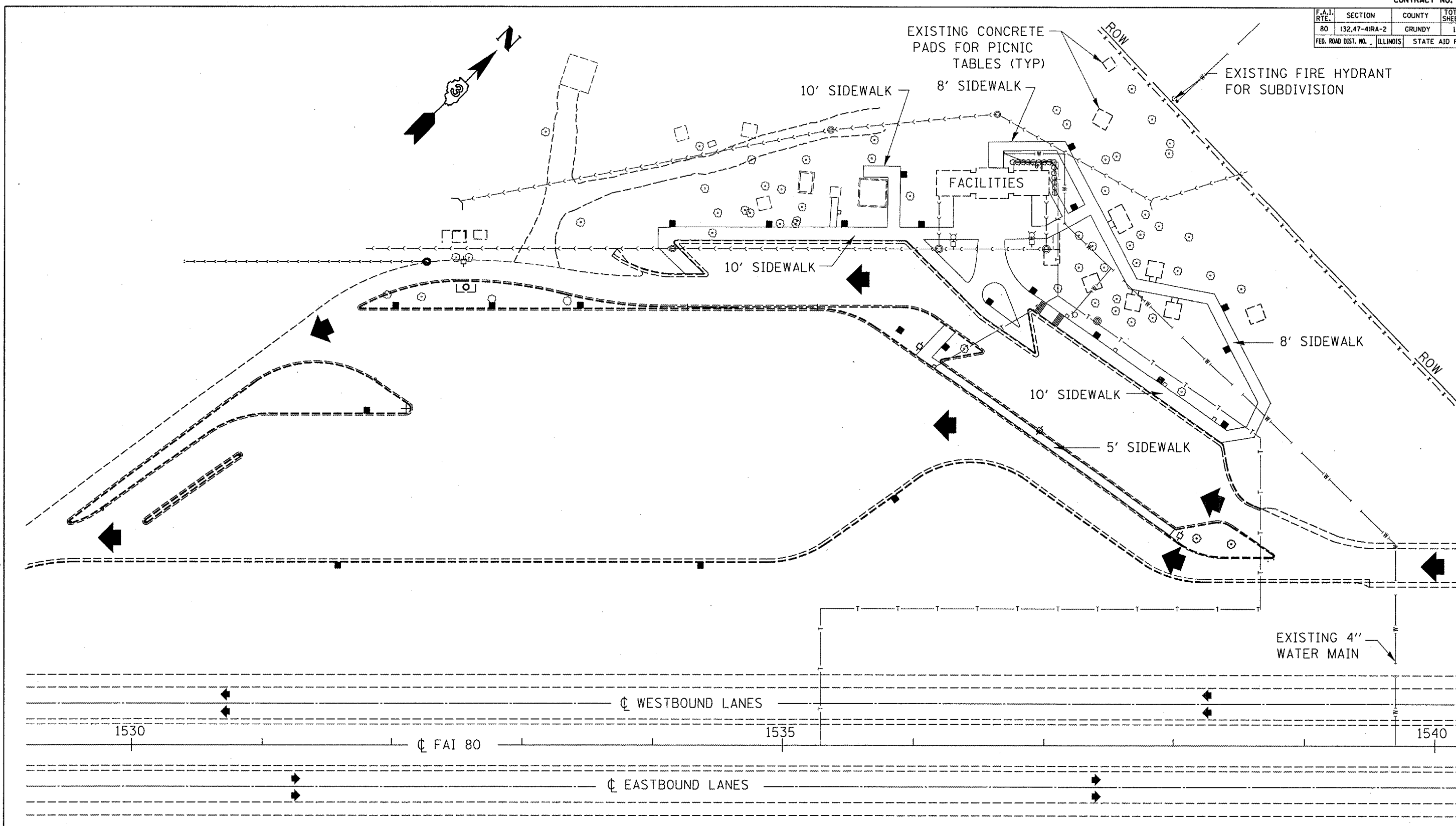
DETAIL @ CONSTRUCTION JOINTS

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
PROPOSED STAIRWAY DETAILS
 EASTBOUND REST AREA
 F.A.I. ROUTE 80
 SECTION (32,47-4)RA-2
 GRUNDY COUNTY

DATE: 10/12/2006
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	132,47-4)RA-2	GRUNDY	19	9
FED. ROAD DIST. NO. ILLINOIS		STATE AID PROJECT		



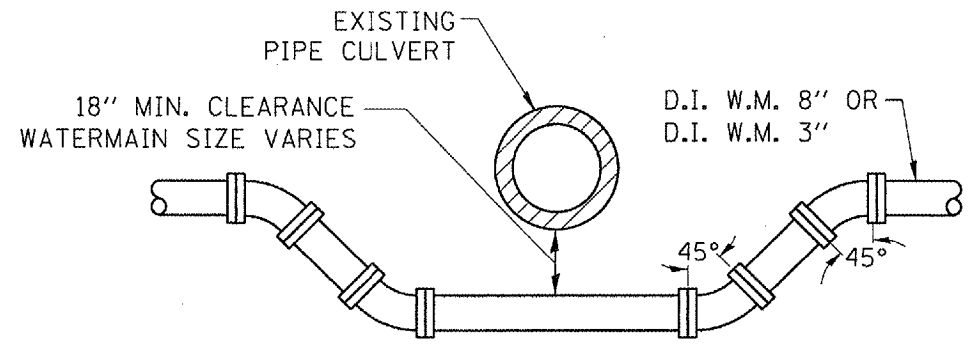
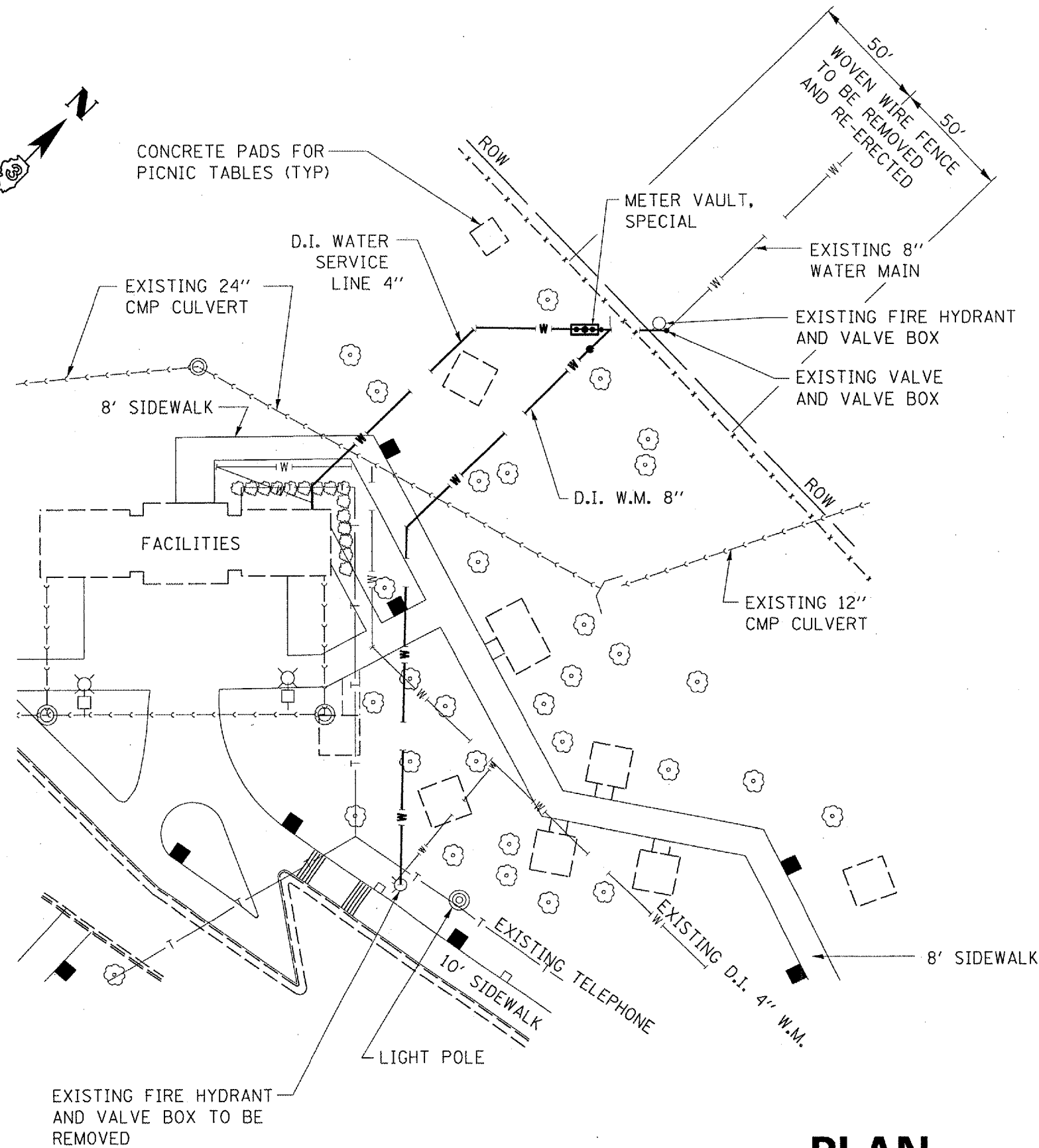
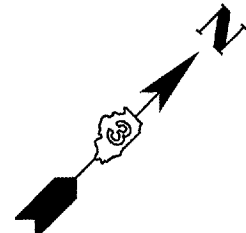
DATE: 10/12/2006
C:/projects/rest area/three rivers/details.dgn

PLAN

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
GENERAL SITE PLAN
WESTBOUND REST AREA
 F.A.I. ROUTE 80
 SECTION (32,47-4)RA-2
 GRUNDY COUNTY

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	(32,47-4)RA-2	GRUNDY	19	10
FED. ROAD DIST. NO.	ILLINOIS	STATE AID PROJECT		



WATER MAIN AND PIPE CULVERT SEPARATION DETAIL

GENERAL NOTES

1. PIPE MATERIAL WILL BE AS INDICATED ON THE PLANS.
2. TYPICAL DETAILS AS SHOWN IN THESE PLAN ILLUSTRATE THE ENGINEER'S CONCEPTION FOR INSTALLING WATER MAINS. THEY ARE NOT PRESENTED AS A SOLUTION TO ALL CONSTRUCTION PROBLEMS ENCOUNTERED IN THE FIELD. THE CONTRACTOR MAY ALTER HIS METHOD OF CONSTRUCTION TO SUIT FIELD CONDITIONS, PROVIDED HE SUBMITS HIS PROPOSED ALTERNATE TO THE ENGINEER FOR APPROVAL AND THAT HE USES MATERIAL ONLY AS DESIGNATED IN THE SPECIFICATIONS. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR ANY CHANGES INSTIGATED BY THE CONTRACTOR.
3. ALL WATER MAIN CONSTRUCTION SHALL CONFORM TO THE "STANDARD SPECIFICATIONS FOR WATER MAIN CONSTRUCTION IN ILLINOIS," LATEST EDITION.
4. ALL WORK ON EXISTING WATER MAINS, AND SERVICES SHALL BE COORDINATED WITH THE CITY OF MINOOKA WATER DEPARTMENT. THE CITY WATER DEPARTMENT SHALL BE NOTIFIED A MINIMUM OF SEVENTY TWO (72) HOURS PRIOR TO THE START OF WORK.
5. IF A LEAD SERVICE IS ENCOUNTERED, THE CONTRACTOR SHALL REPLACE THE SERVICE LINE, INCLUDING THE CORPORATION STOP, FROM THE MAIN TO THE RIGHT-OR-WAY LINE. THIS WORK WILL BE PAID FOR ACCORDING TO ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS.

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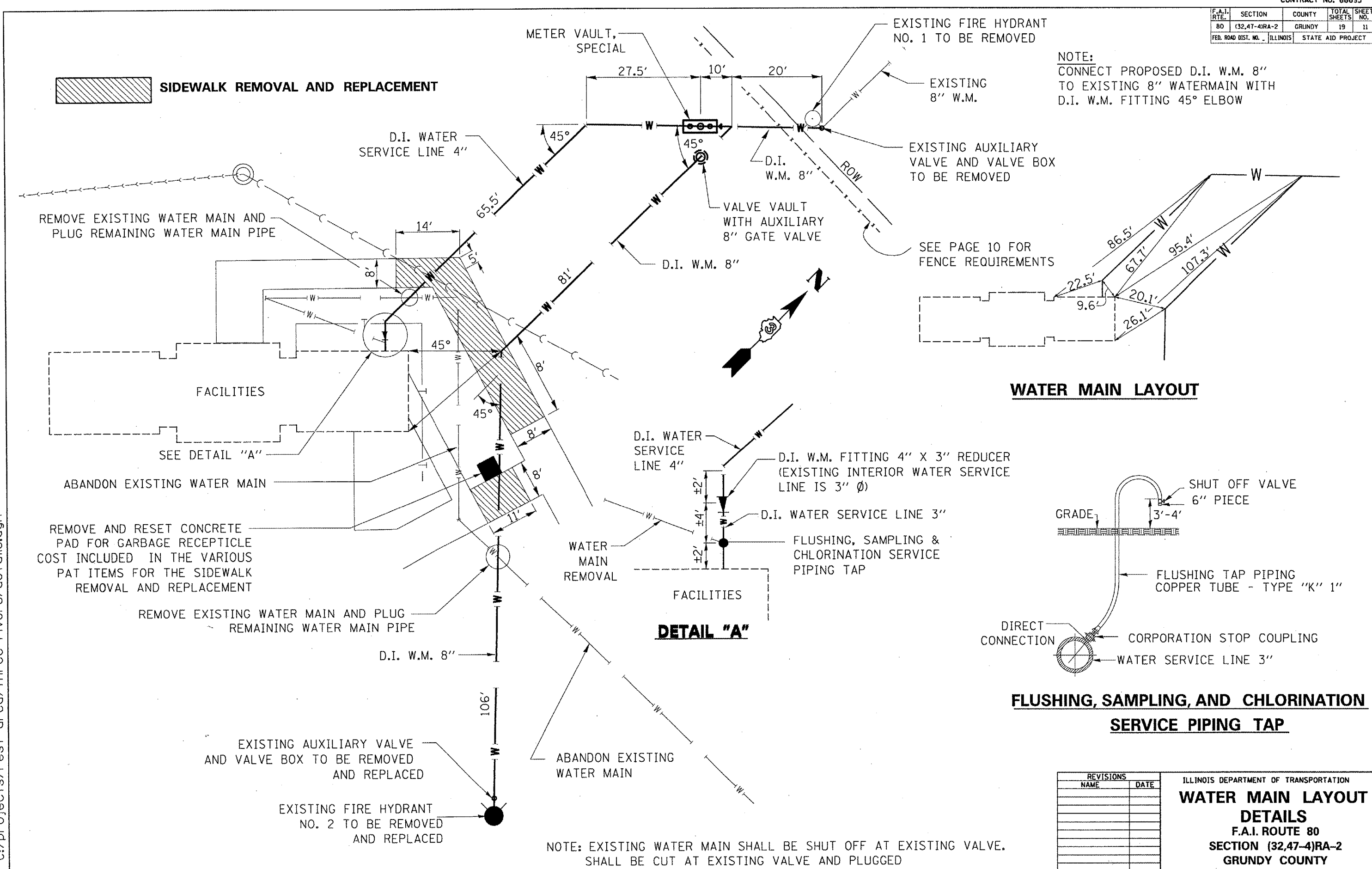
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
SITE PLAN
WESTBOUND REST AREA
F.A.I. ROUTE 80
SECTION (32,47-4)RA-2
GRUNDY COUNTY

PLAN

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	(32,47-4)RA-2	GRUNDY	19	11
FED. ROAD DIST. NO.		ILLINOIS	STATE AID PROJECT	

NOTE:
CONNECT PROPOSED D.I. W.M. 8"
TO EXISTING 8" WATERMAIN WITH
D.I. W.M. FITTING 45° ELBOW



WATER MAIN LAYOUT

DETAIL "A"

FLUSHING, SAMPLING, AND CHLORINATION SERVICE PIPING TAP

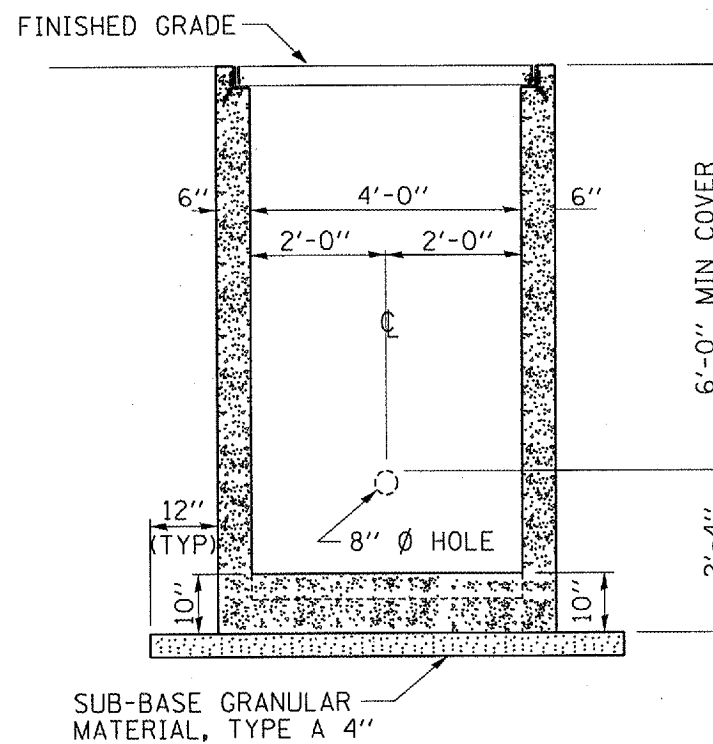
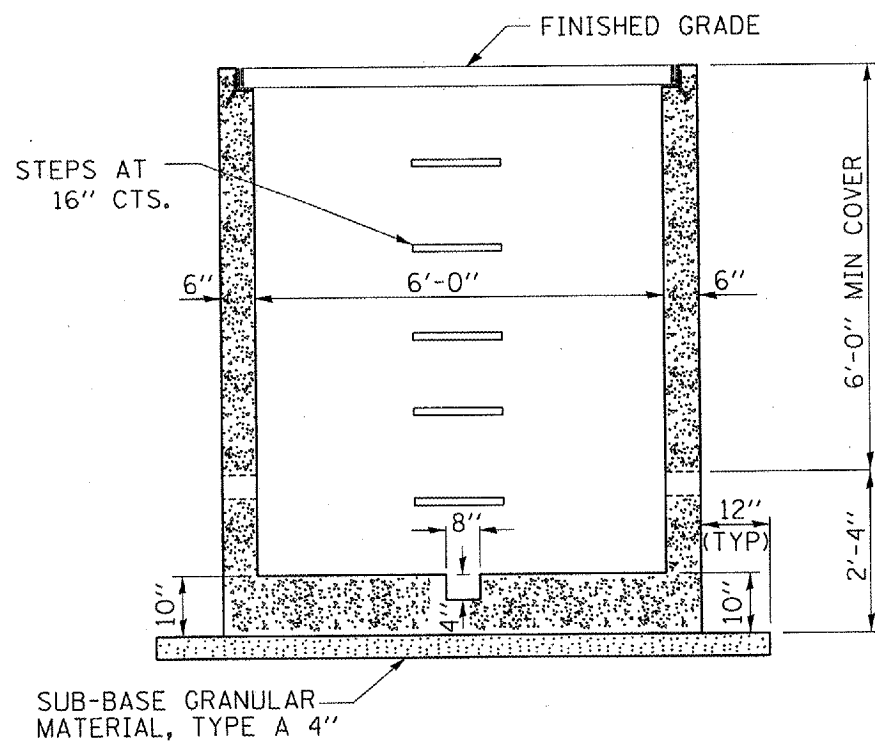
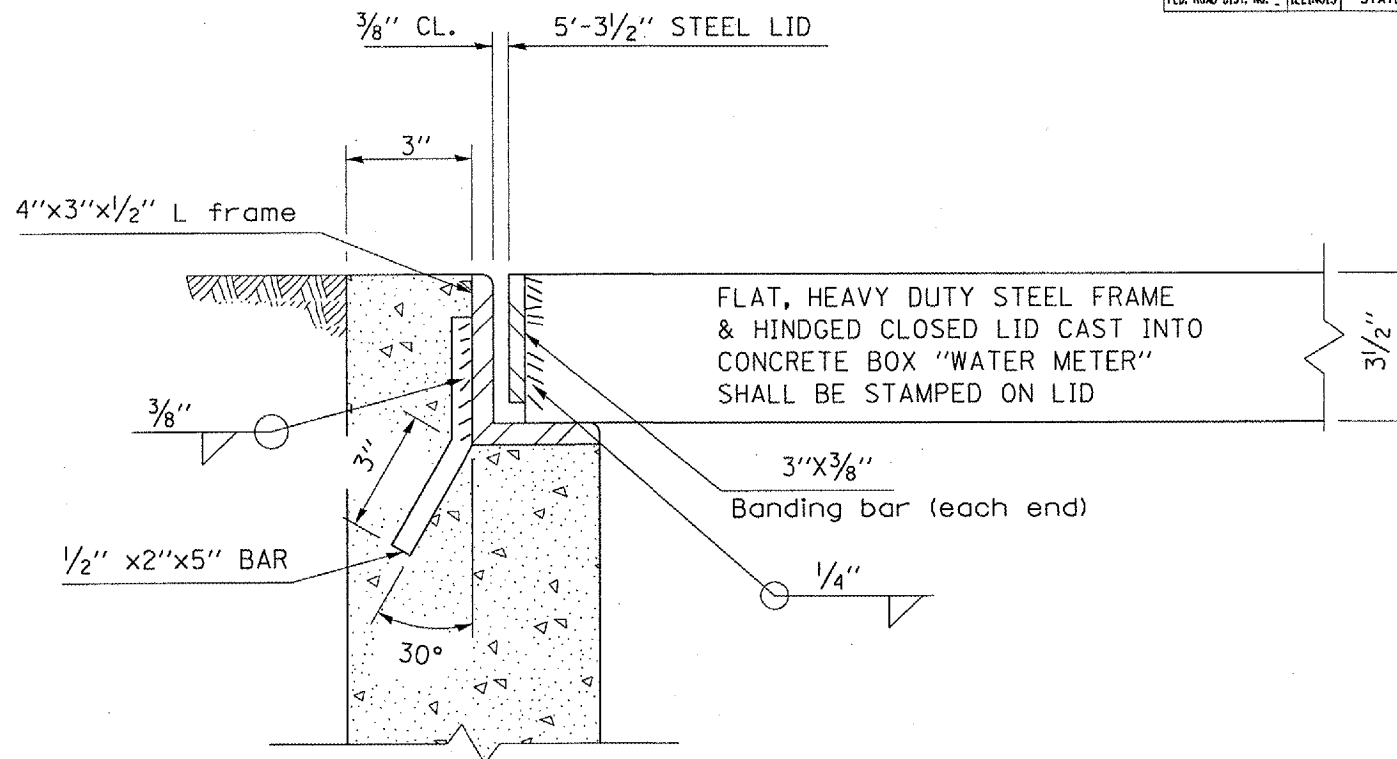
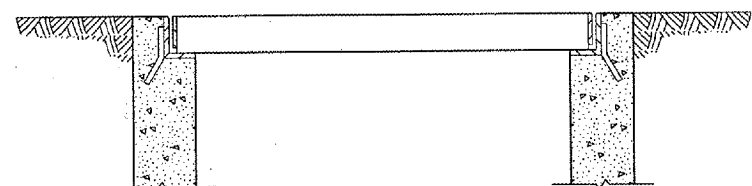
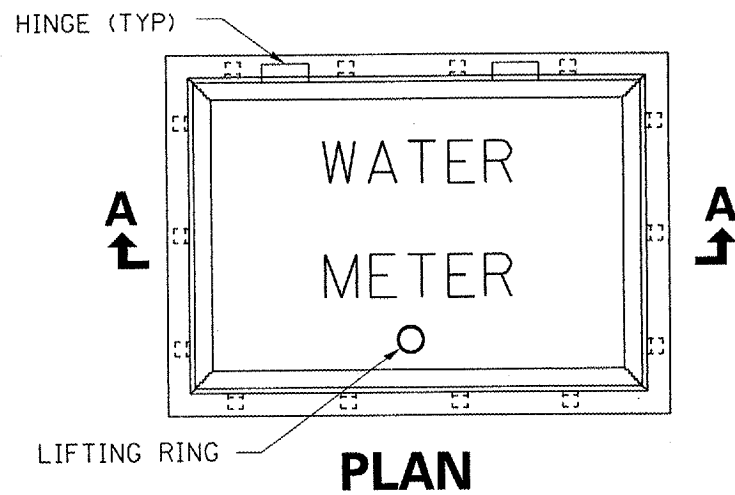
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
**WATER MAIN LAYOUT
DETAILS**
F.A.I. ROUTE 80
SECTION (32,47-4)RA-2
GRUNDY COUNTY

NOTE: EXISTING WATER MAIN SHALL BE SHUT OFF AT EXISTING VALVE.
SHALL BE CUT AT EXISTING VALVE AND PLUGGED

DATE: 10/12/2006
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	(32,47-4)RA-2	GRUNDY	19	12
FED. ROAD DIST. NO. ILLINOIS		STATE AID PROJECT		

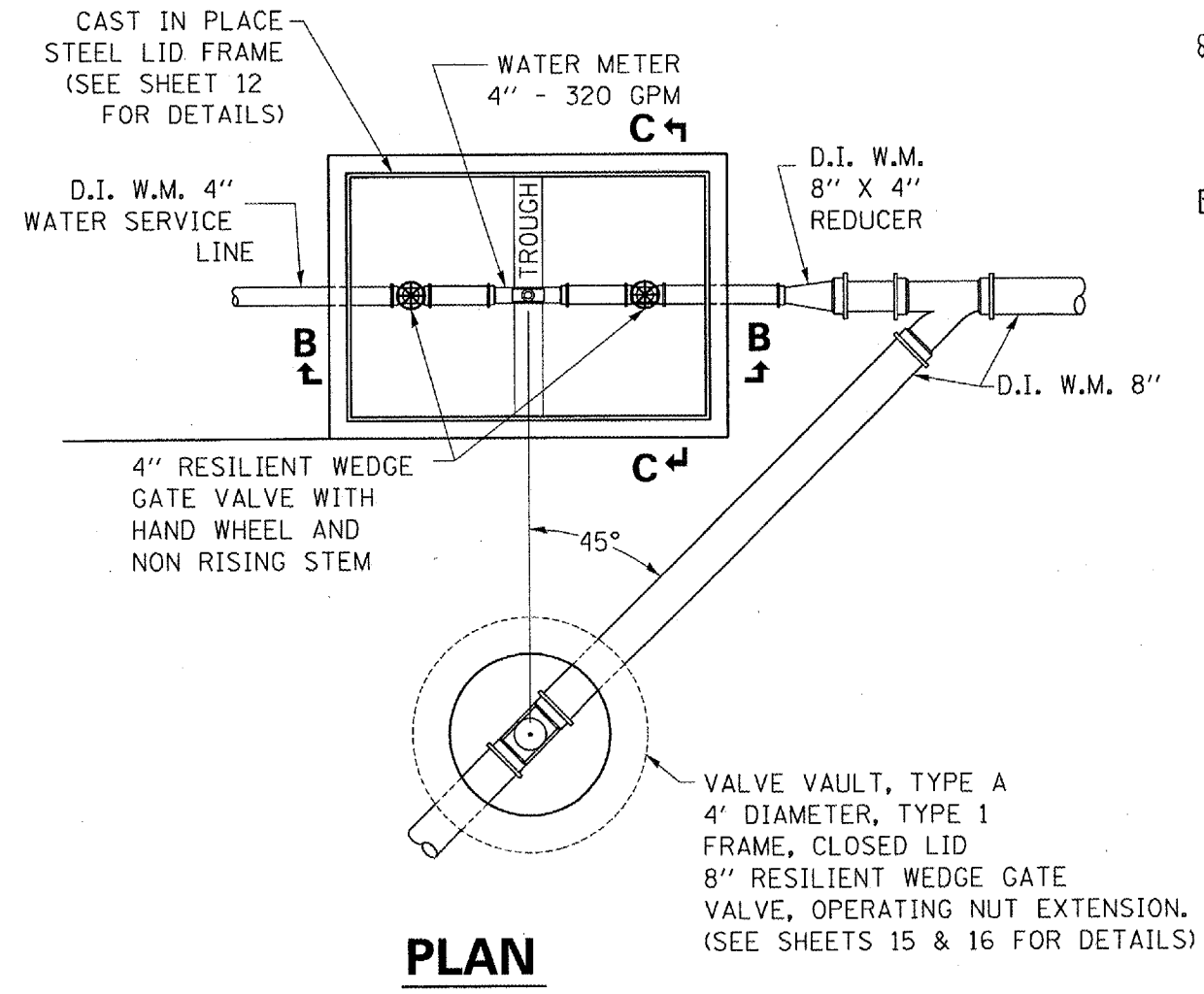


DATE: 10/12/2006 C:/projects/rest area/three rivers/details.dgn

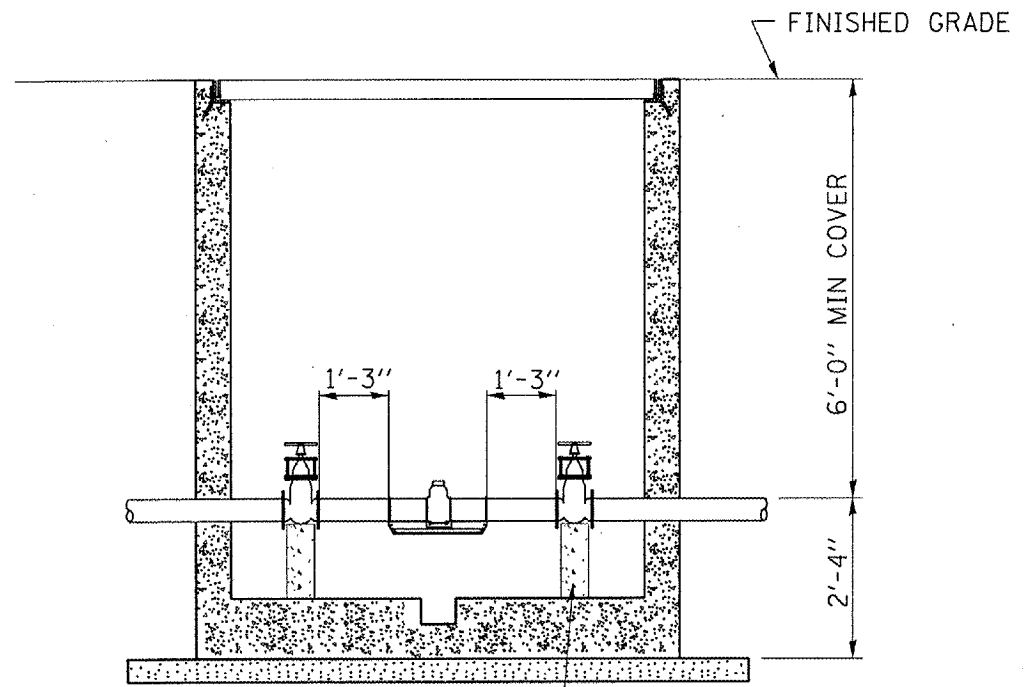
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
METER VAULT, SPECIAL DETAILS
 F.A.I. ROUTE 80
 SECTION (32,47-4)RA-2
 GRUNDY COUNTY

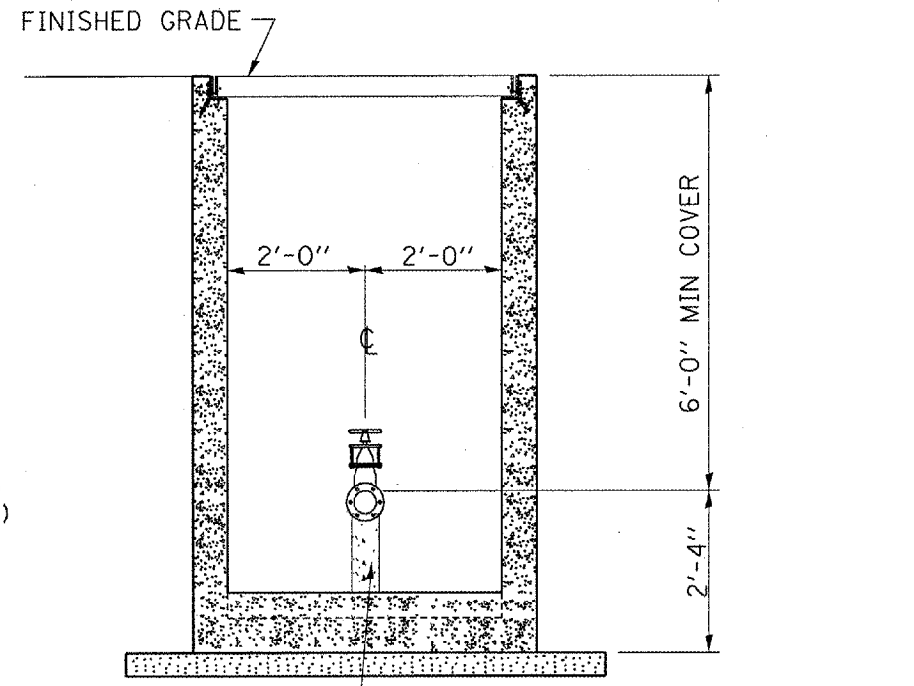
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	(32,47-4)RA-2	GRUNDY	19	13
FED. ROAD DIST. NO. ILLINOIS		STATE AID PROJECT		



PLAN



SECTION B-B



SECTION C-C

NOTES:

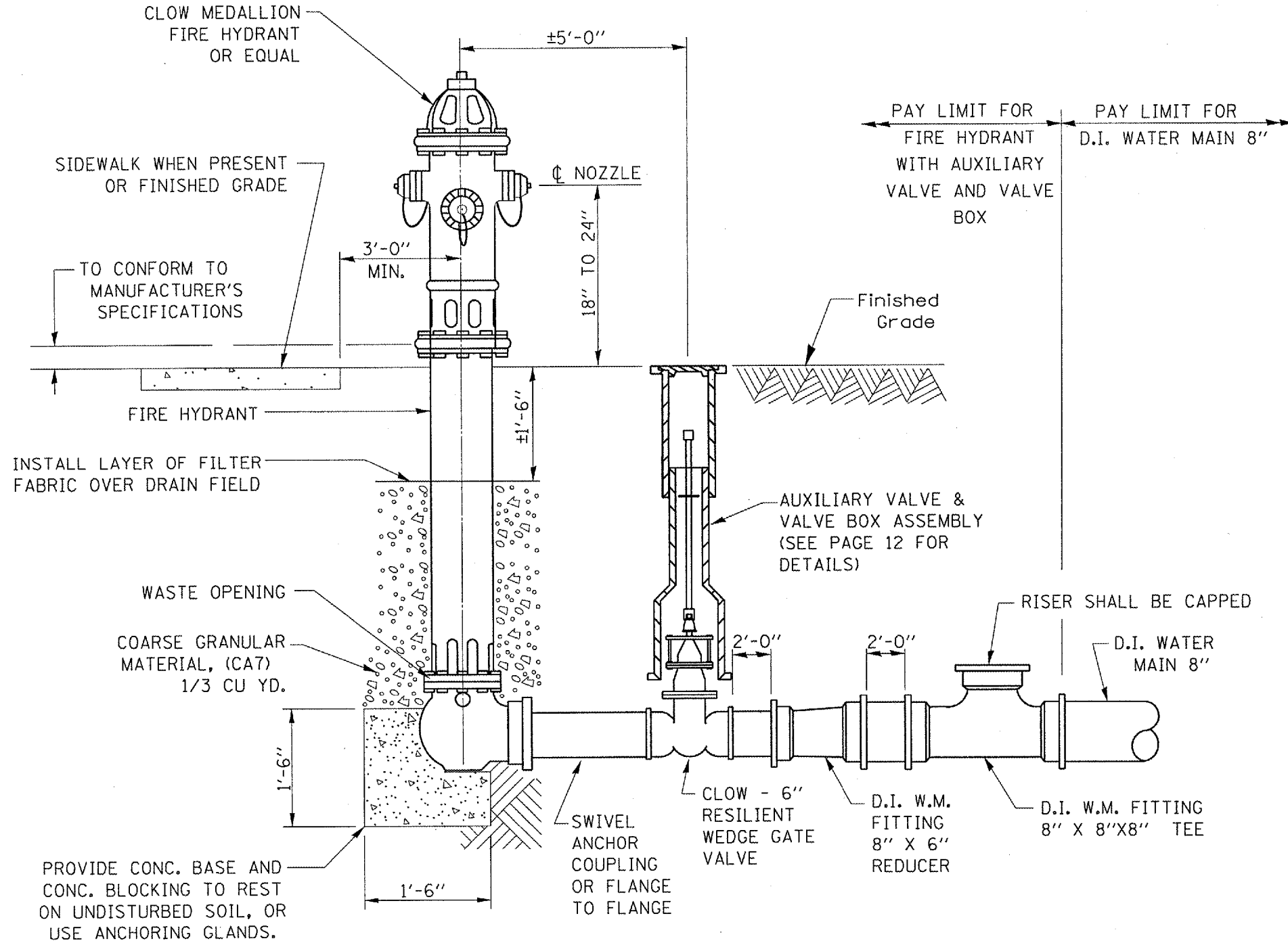
- VALVE VAULTS SHALL BE PRECAST REINFORCED CONCRETE ONLY.
- ALL FITTINGS SHALL BE MECHANICAL FITTINGS WITH MEG-A-LUG RETAINER GLANDS.
- ALL VALVE VAULTS SHALL HAVE NO MORE THAN TWO ADJUSTING RINGS (WHEN REQUIRED) WITH A MINIMUM OF FOUR INCHES (4") AND A MAXIMUM OF TWELVE INCHES (12") OF ADJUSTABLE RINGS.
- RUBBER ADJUSTING RINGS ARE REQUIRED FOR ANY RINGS THAT ARE TWO INCHES (2") IN THICKNESS, OR LESS.
- ALL LIFTING HOLES, JOINTS BETWEEN PRECAST REINFORCED CONCRETE SECTIONS, GAPS BETWEEN PIPES AND STRUCTURES SHALL BE TUCKPOINTED WITH HYDRAULIC CEMENT.
- VALVE VAULTS SHALL USE A NEENAH OR EAST JORDAN IRON WORKS HEAVY DUTY FRAME AND LID WITH "WATER METER" CAST ON LID.
- VALVE OPERATING NUT SHALL BE ACCESSIBLE THROUGH THE FRAME AND LID.

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REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
METER VAULT, SPECIAL DETAILS
 F.A.I. ROUTE 80
 SECTION (32,47-4)RA-2
 GRUNDY COUNTY

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	(32,47-4)RA-2	GRUNDY	19	14
FED. ROAD DIST. NO.	ILLINOIS	STATE AID PROJECT		



FIRE HYDRANT SETTING DETAIL

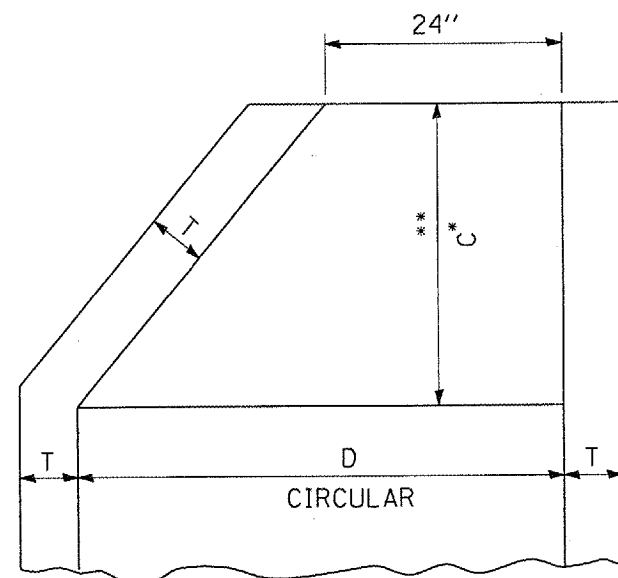
NOTES:

- CONCRETE BASE AND BLOCKING MATERIAL SHALL NOT BLOCK NOR OBSTRUCT HYDRANT DRAIN
- ALL BLOCKS BEAR AGAINST UNDISTURBED EARTH.
- ALL BLOCKS SHALL BE MINIMUM 3000 PSI CONCRETE.
- ALL FIRE HYDRANTS SHALL HAVE A FIVE AND ONE QUARTER INCH (5 1/4") MAIN VALVE OPENING.
- HYDRANT COLOR SHALL BE YELLOW.
- HYDRANT SHALL HAVE TWO (2) TWO AND ONE HALF INCH (2 1/2") HOSE CONNECTIONS AND ONE (1) FOUR AND ONE HALF INCH (4 1/2") CONNECTION.
- THREADS SHALL BE NATIONAL STANDARD.
- THE HYDRANT SHALL HAVE A BREAKAWAY TRAFFIC FLANGE AND CONNECTIONS.
- HYDRANT SHOES SHALL BE SIX INCH (6") MECHANICAL JOINTS WITH MEGA-LUG RETAINER GLANDS.
- HYDRANT LEADS MAY BE SIX INCH (6") SWIVEL ANCHORING COUPLING. HYDRANT TEES SHALL BE USED IN LIEU OF SWIVEL ANCHORING COUPLING PIPE IF NECESSARY.

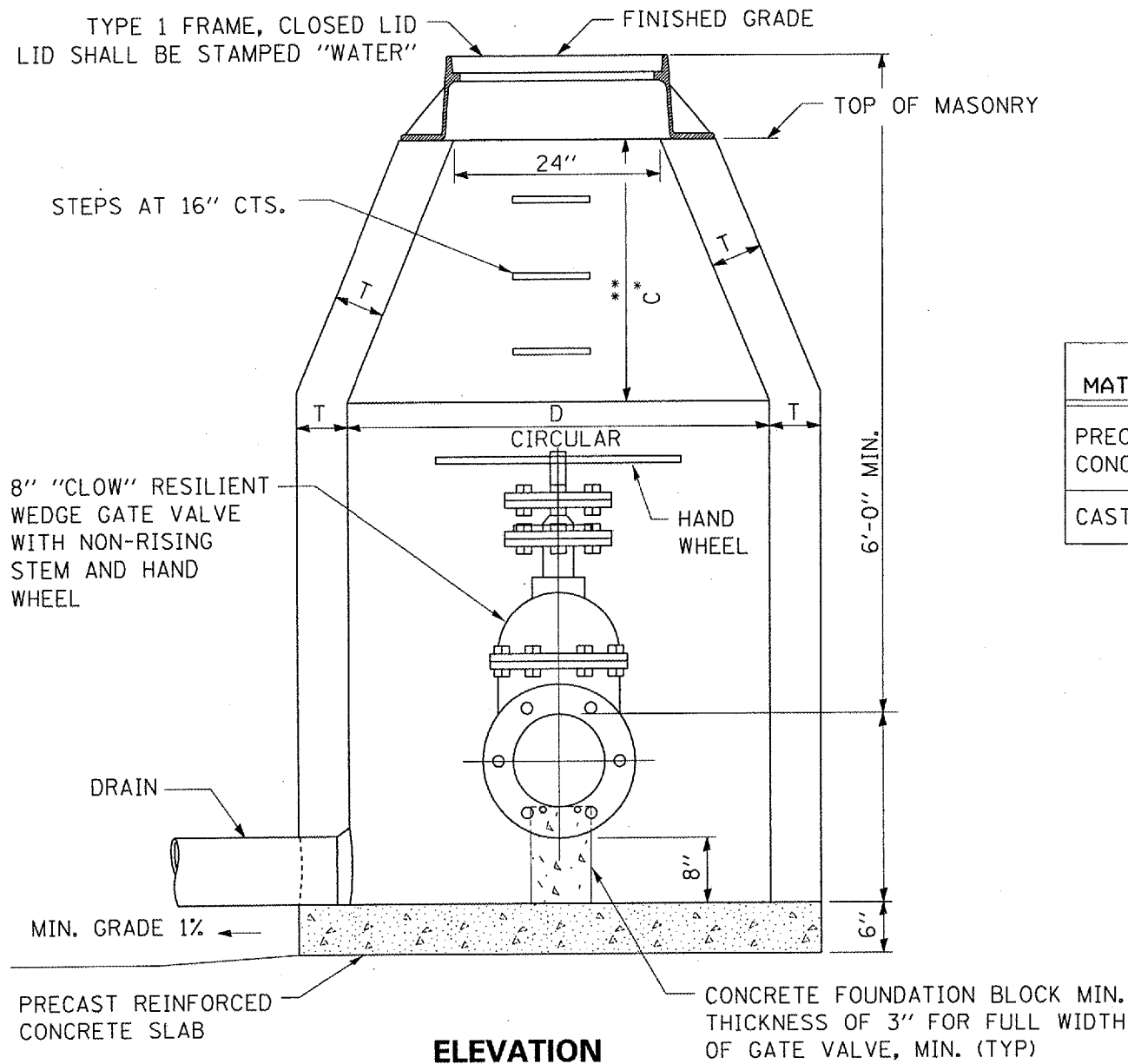
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REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION
NAME	DATE	
		FIRE HYDRANT INSTALLATION DETAILS F.A.I. ROUTE 80 SECTION (32,47-4)RA-2 GRUNDY COUNTY

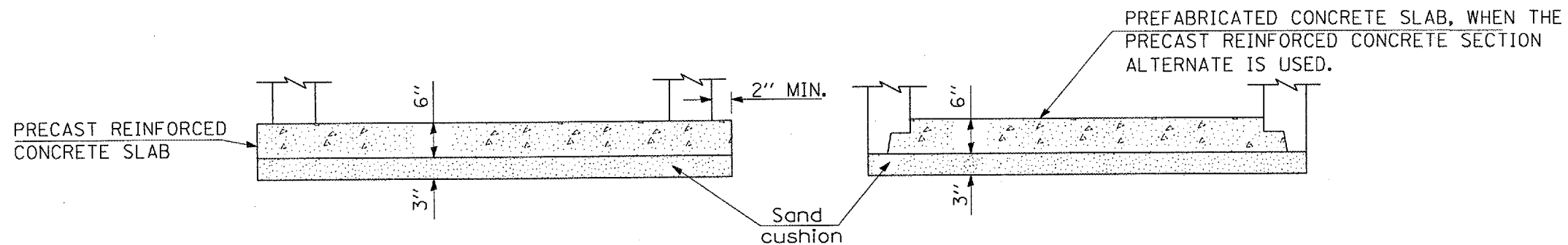
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	(32,47-4)RA-2	GRUNDY	19	15
FED. ROAD DIST. NO. ILLINOIS		STATE AID PROJECT		



THE CONE OF THE VALVE VAULT SHALL BE CONSTRUCTED AS SHOWN ABOVE ONLY WHEN THERE IS INTERFERENCE WITH UNDERGROUND CONDITIONS AND THOSE CONDITIONS CANNOT BE ALTERED.



ALTERNATE MATERIALS FOR WALLS	D	C	T (min.)
PRECAST REINFORCED CONCRETE SECTION	4'-0"	2'-6"	4"
CAST-IN-PLACE CONCRETE	4'-0"	2'-6"	6"



GENERAL NOTES

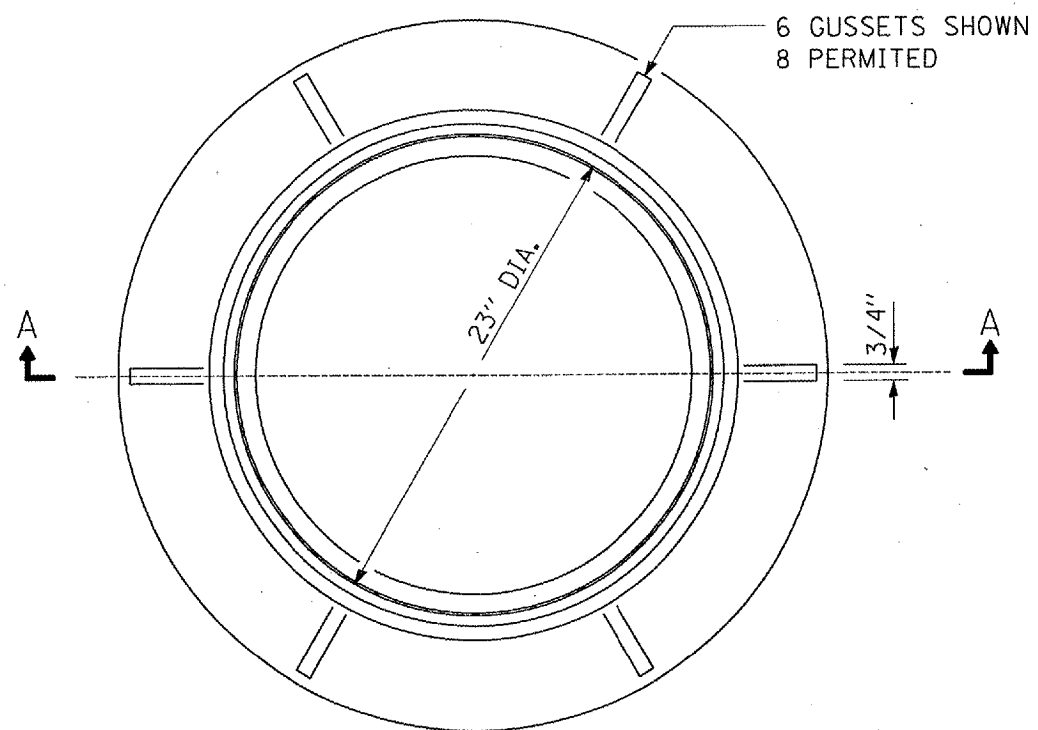
- * DIMENSION "C" FOR PRECAST REINFORCED CONCRETE SECTION MAY VARY FROM THE DIMENSION GIVEN TO PLUS 6"
- * SEE STANDARD 602601 FOR OPTIONAL PRECAST REINFORCED CONCRETE FLAT TOP SLAB.

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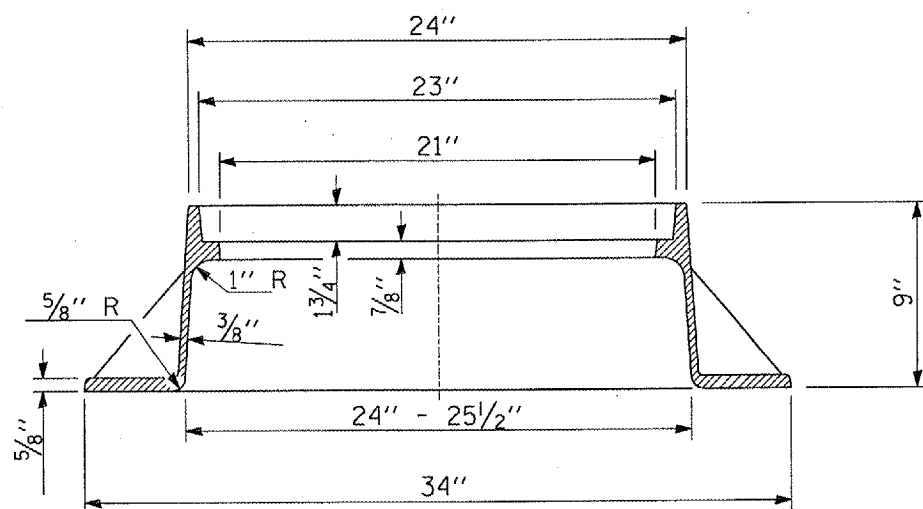
ILLINOIS DEPARTMENT OF TRANSPORTATION
VALVE VAULT TYPE A
4' DIAMETER
 F.A.I. ROUTE 80
 SECTION (32,47-4)RA-2
 GRUNDY COUNTY

DATE: 10/12/2006
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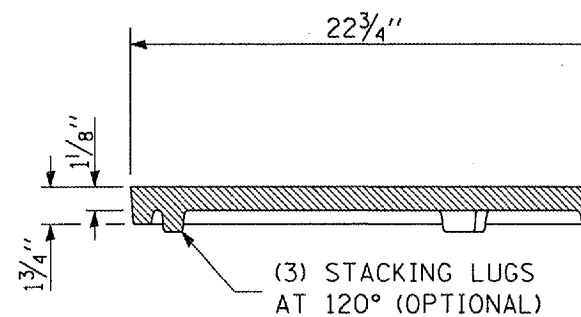
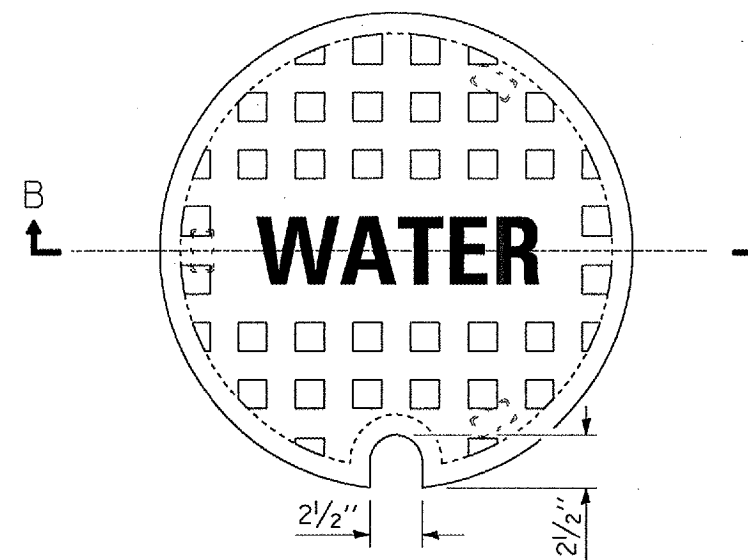
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	(32,47-4)RA-2	GRUNDY	19	16
FED. ROAD DIST. NO. ILLINOIS		STATE AID PROJECT		



CAST FRAME



SECTION A-A
Gray Iron



SECTION D-D

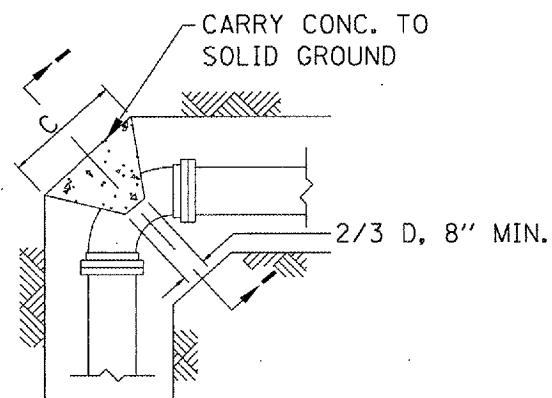
CAST CLOSED LID
GRAY IRON LID

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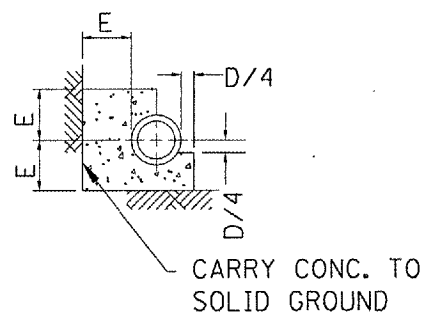
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
TYPE 1 FRAME, CLOSED LID
F.A.I. ROUTE 80
SECTION (32,47-4)RA-2
GRUNDY COUNTY

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	(32,47-4)RA-2	GRUNDY	19	17
FED. ROAD DIST. NO.		ILLINOIS	STATE AID PROJECT	



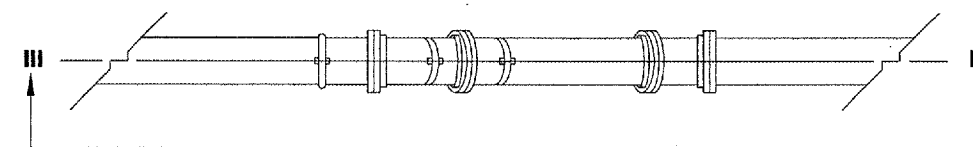
PLAN



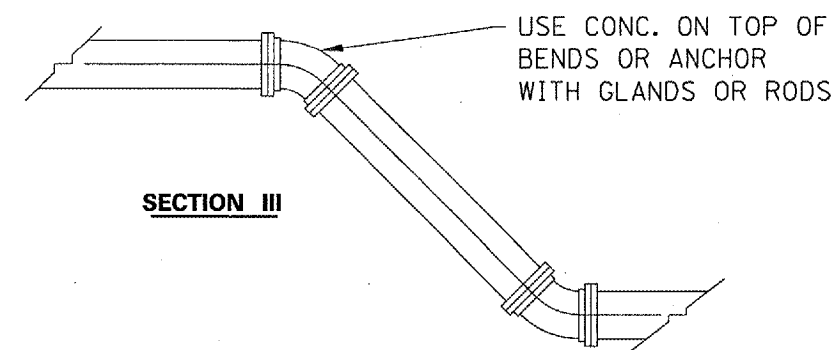
SECTION I

THRUST BLOCK FOR HORIZ. BENDS

90° OR 45° ELBOWS



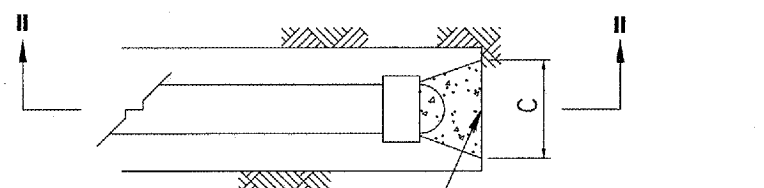
PLAN



SECTION III

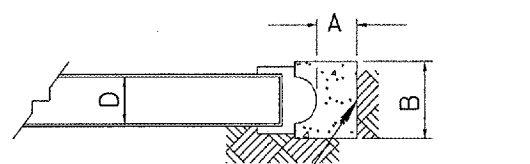
THRUST BLOCK FOR VERT. 1/8 & 1/16 BENDS

D	A	B	C	E	F	G	H	J	L
4",6"	8"	11"	1'-3"	8"	8"	8"	2'-6"	2'-6"	3'-0"
8"	9"	1'-2"	1'-8"	9"	10"	9"	3'-0"	2'-9"	4'-0"
10"	10"	1'-6"	2'-1"	10"	1'-0"	1'-0"	4'-0"	3'-0"	4'-6"
12"	1'-0"	1'-10"	2'-6"	11"	1'-3"	1'-0"	4'-6"	3'-6"	4'-9"
16"	1'-2"	2'-4"	3'-4"	1'-3"	1'-8"	1'-4"	5'-2"	4'-0"	6'-6"



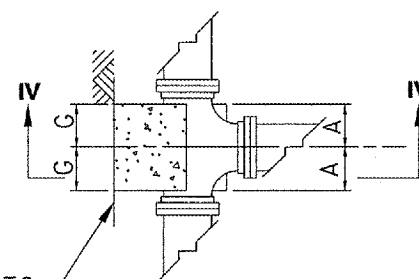
PLAN

BRACE PLUG AGAINST UNDISTURBED EARTH WITH PREFORMED THRUST BLOCKS



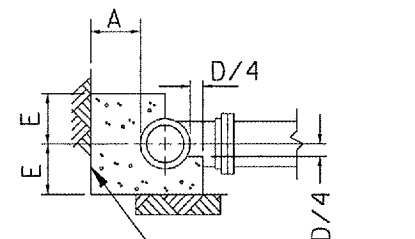
SECTION II

THRUST BLOCK FOR CAPS OR PLUGS



PLAN

CARRY CONC. TO SOLID GROUND



SECTION IV

THRUST BLOCK FOR TEES

NOTES:

ALL BLOCKS BEAR AGAINST UNDISTURBED EARTH.

ALL BLOCKS SHALL BE 3000 PSI CONCRETE.

ALL FITTINGS (BENDS IN PIPE) SHALL BE MECHANICAL FITTINGS WITH MEG-A-LUG RETAINER GLANDS.

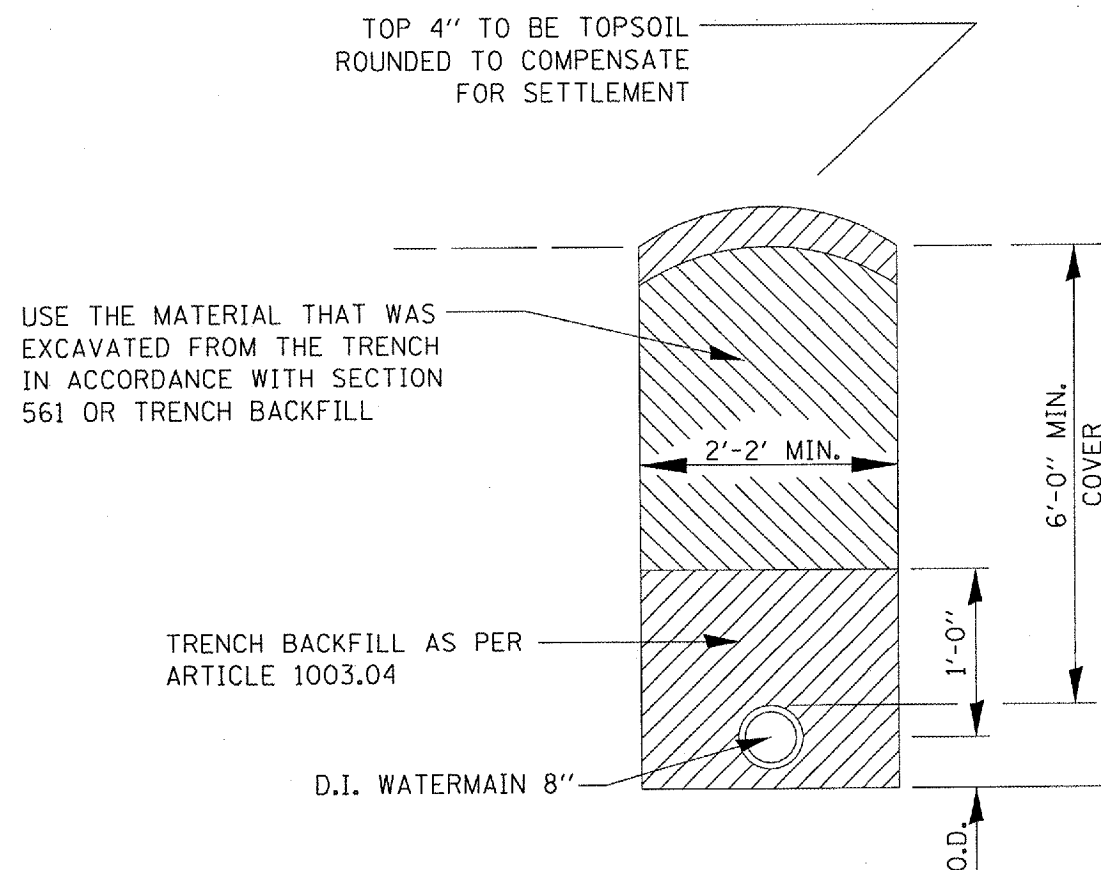
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NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

THRUST BLOCK DETAILS
F.A.I. ROUTE 80
SECTION (32,47-4)RA-2
GRUNDY COUNTY

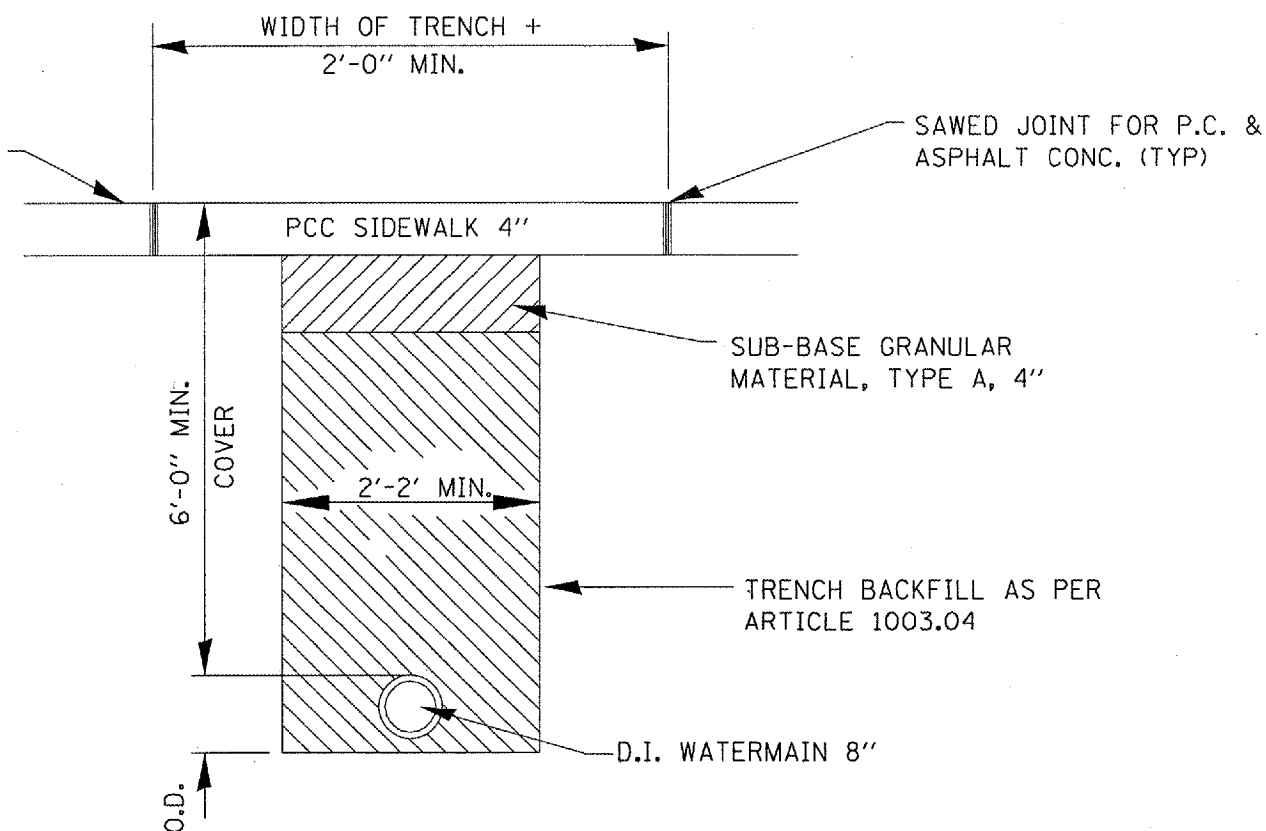
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	32,47-4RA-2	GRUNDY	19	18
FED. ROAD DIST. NO.		ILLINOIS	STATE AID PROJECT	



METHOD I

(FOR BACKFILLING IN UNIMPROVED AREAS)



METHOD II

(FOR BACKFILLING ACROSS P.C. CONCRETE, ASPHALT CONCRETE & OIL CHIP SURFACES)

GENERAL NOTES

1. ANY SOFT OR SPONGY MATERIAL ENCOUNTERED BELOW THE ELEVATION OF THE PIPE SHALL BE REMOVED AND REPLACED WITH WELL COMPACTED MOIST FINE AGGREGATE.
2. ANY ROCK ENCOUNTERED IN THE TRENCH SHALL BE REMOVED TO A DEPTH OF AT LEAST 8 INCHES (8") BELOW THE PIPE GRADE AND REPLACED WITH WELL COMPACTED MOIST FINE AGGREGATE.
3. THE SIDES OF THE TRENCH MAY BE SLOPED OR BENCHED ABOVE A FIVE FOOT (5') TRENCH DEPTH OR ABOVE THE ELEVATION OF THE TOP OF PIPE, WHICHEVER IS GREATER, IN LIEU OF COMPLETE SHORING OR SHEETING OF THE FULL TRENCH DEPTH.

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ILLINOIS DEPARTMENT OF TRANSPORTATION
TRENCH BACKFILL DETAILS
 F.A.I. ROUTE 80
 SECTION (32,47-4)RA-2
 GRUNDY COUNTY

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