

Thermopylae™

ENGINEERING & CONSTRUCTION LP

ROAD WORKS SHIELD AND GANTRY SYSTEM*

LIST OF DRAWINGS:

GENERAL CIVIL

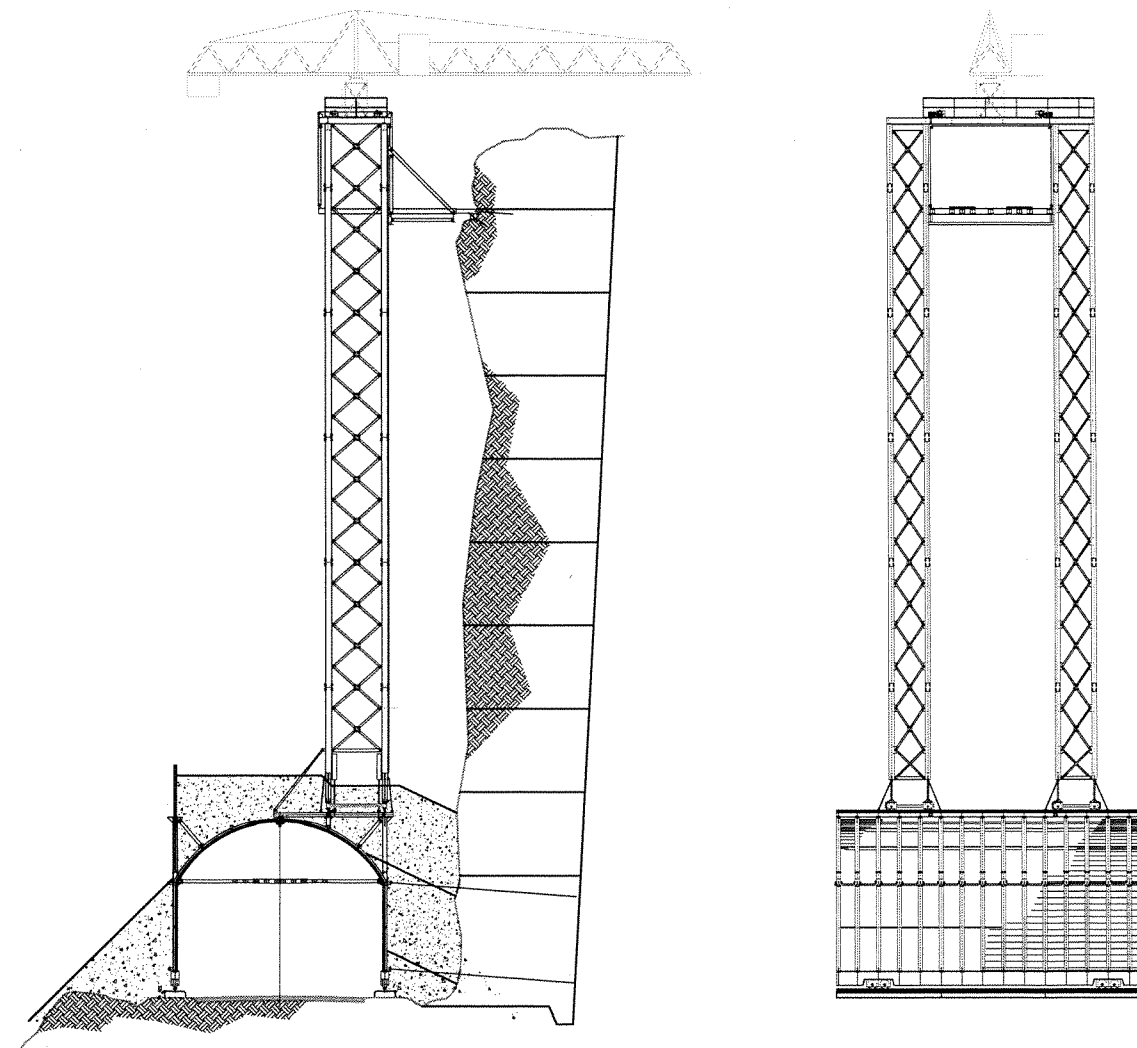
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STRUCTURAL

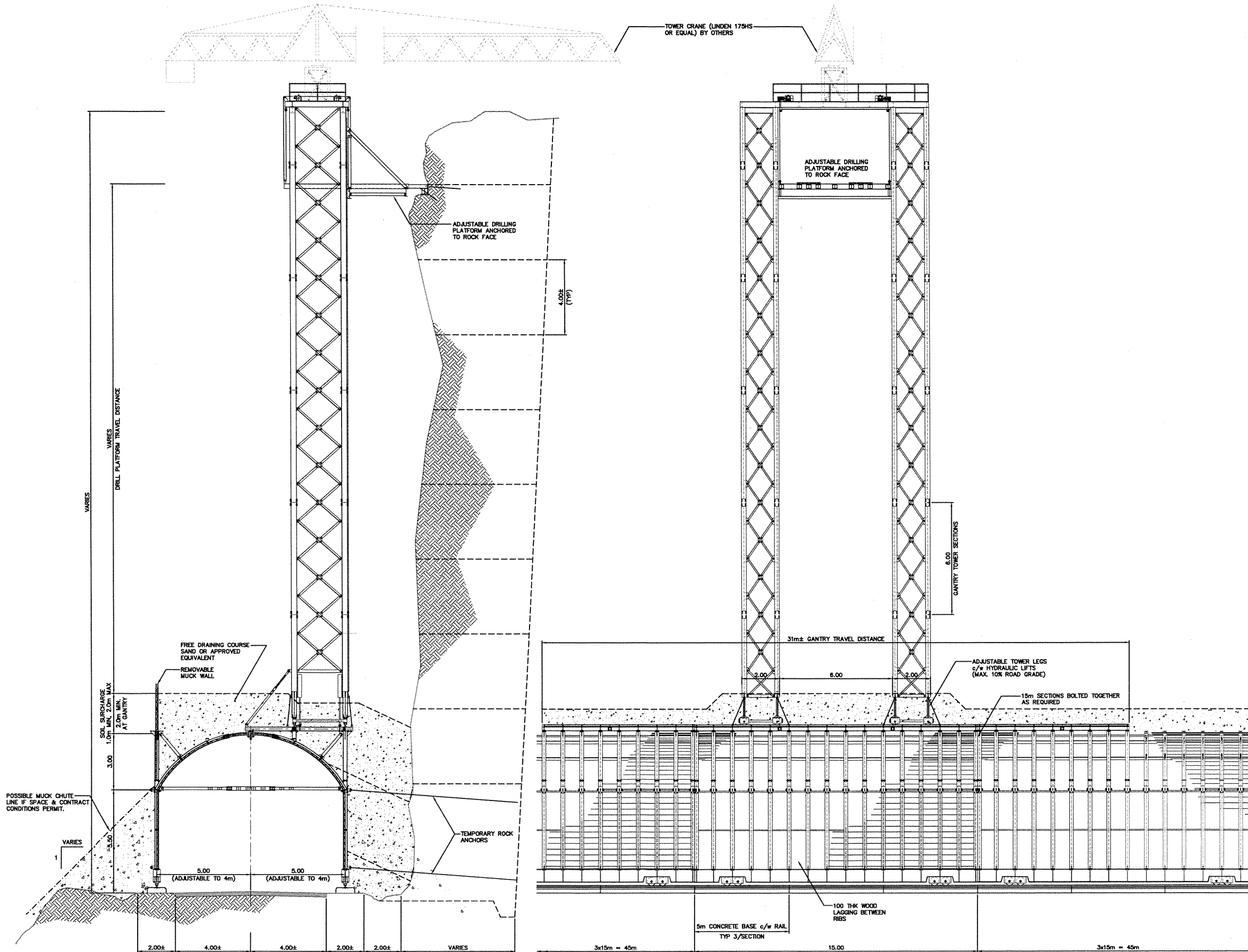
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NOTES:



A TYPICAL SECTION
SCALE: 1:100

1 TYPICAL ELEVATION
SCALE: 1:100

P.ENG	RET
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B	31/03/2004 REVISED ELEVATION KD
A	12/03/2004 PRELIMINARY REVIEW KD
ISSUE	DD/MM/YYYY ISSUE DESCRIPTION CHK
DRAWING ISSUE STATUS	

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ROAD WORKS SHIELD AND GANTRY*

GENERAL CONCEPT DRAWING

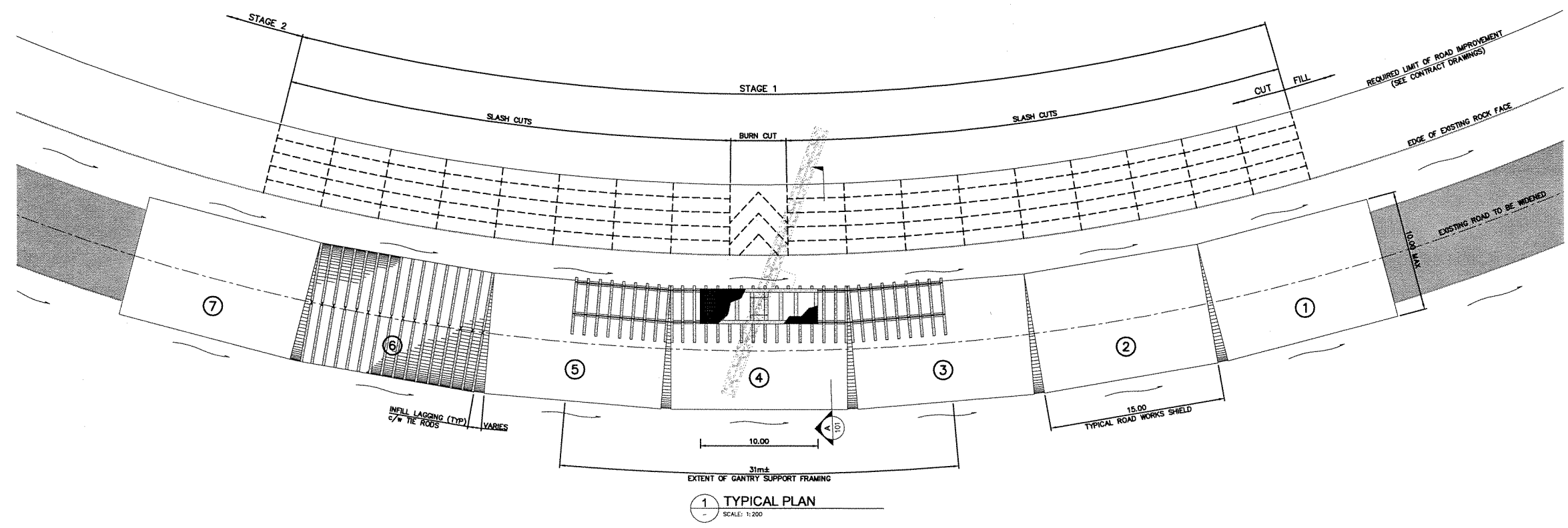
DATE :	FEB 2004	SCALE :	AS NOTED
DESIGN :	KD	STRUCTURE No. :	RSG-01
CHECKED :	KD	ISSUE :	B
DRAWN :	MZ	DRAWING :	101

BLASTING NOTES:

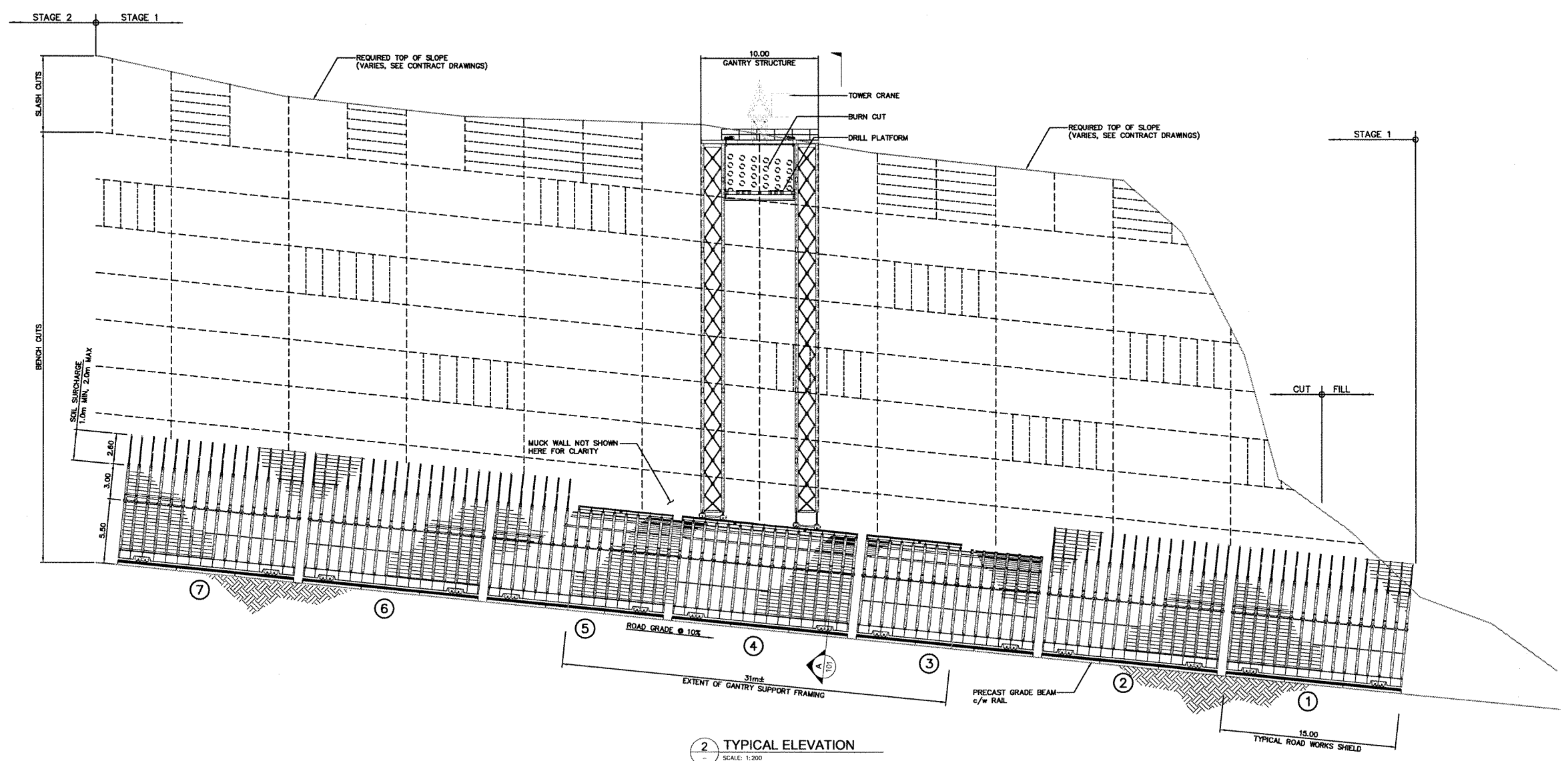
1. CONTROLLED PERIMETER BLASTING TO BE USED AT ALL TIMES.
2. ALL BLASTS TO BE MONITORED FOR VIBRATION. MAXIMUM PERMISSIBLE PEAK VIBRATION ON ANY PART OF STRUCTURE IS 50mm PER SECOND.
3. BLASTING MATS (OR APPROVED PROTECTION SYSTEM) TO BE USED ON ALL BLASTS WITHIN 10m OF THE GANTRY STRUCTURE.
4. FOR TRAFFIC CONTROL, SEE GENERAL CONTRACTOR'S APPROVED TRAFFIC SAFETY PLAN.

GENERAL NOTES:

1. ALL SHOT ROCK TO BE MACHINED CAST AT THE MAXIMUM RATE OF 2m³/CAST.
2. MAXIMUM PERMISSIBLE EQUIPMENT LOAD PER ROAD WORKS SHIELD STRUCTURE = 125,000 lbs (GROSS)
3. TYPING DESIGN OF INDIVIDUAL RSG COMPONENTS BY GENERAL CONTRACTOR. SIGNED AND SEALED DRAWINGS TO BE SUBMITTED TO TECH FOR APPROVAL PRIOR TO COMMENCEMENT OF WORK.



1 TYPICAL PLAN
SCALE: 1:200



2 TYPICAL ELEVATION
SCALE: 1:200

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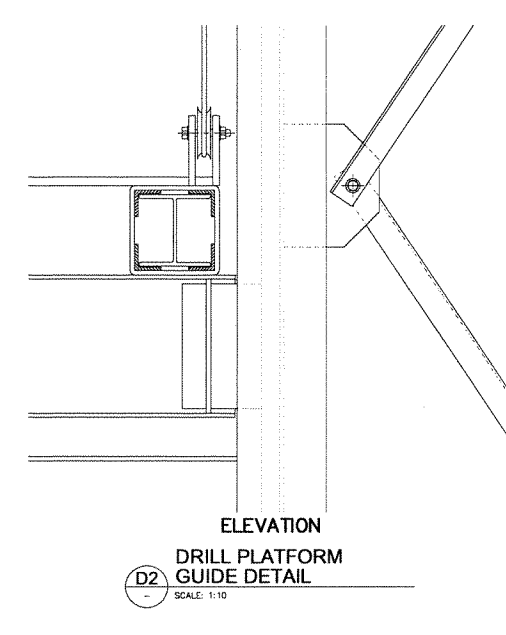
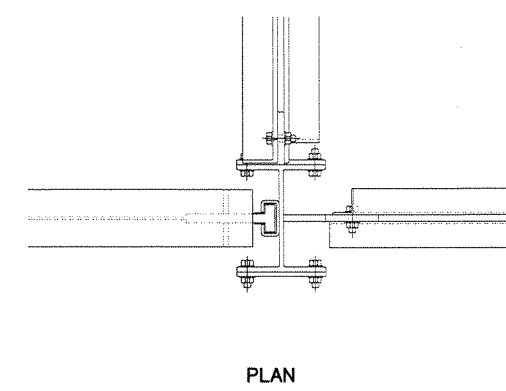
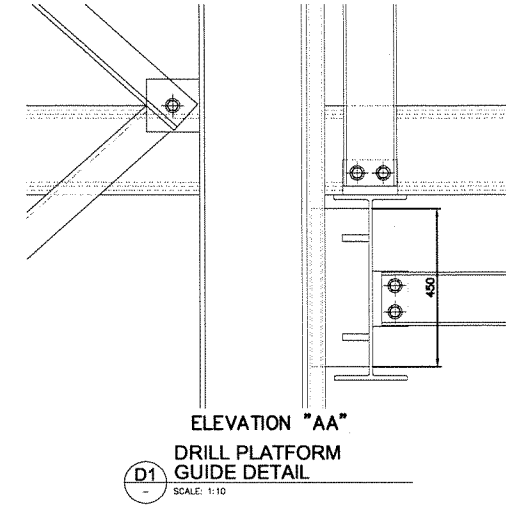
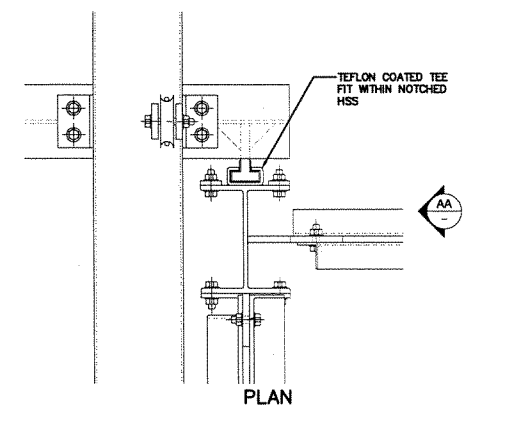
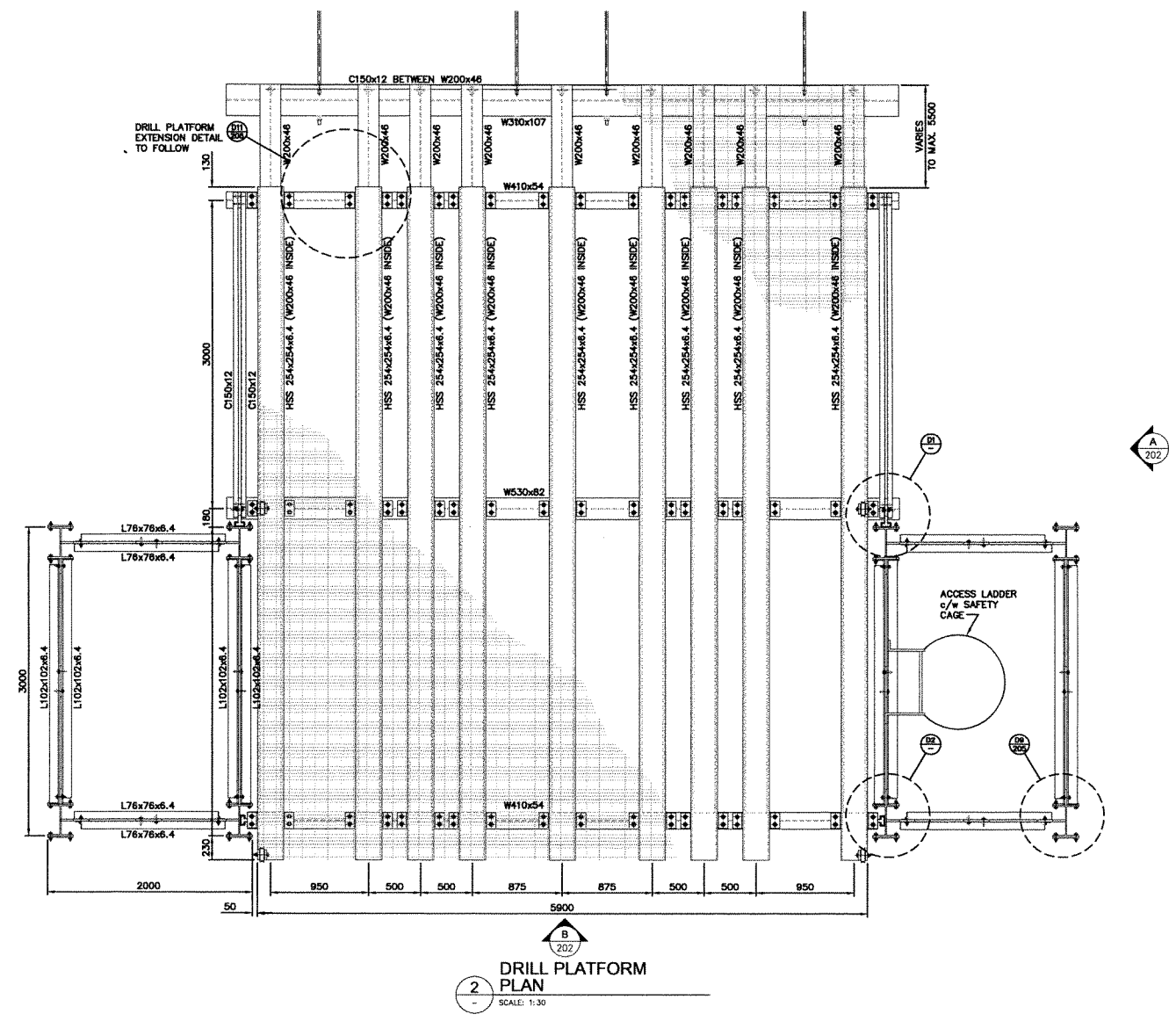
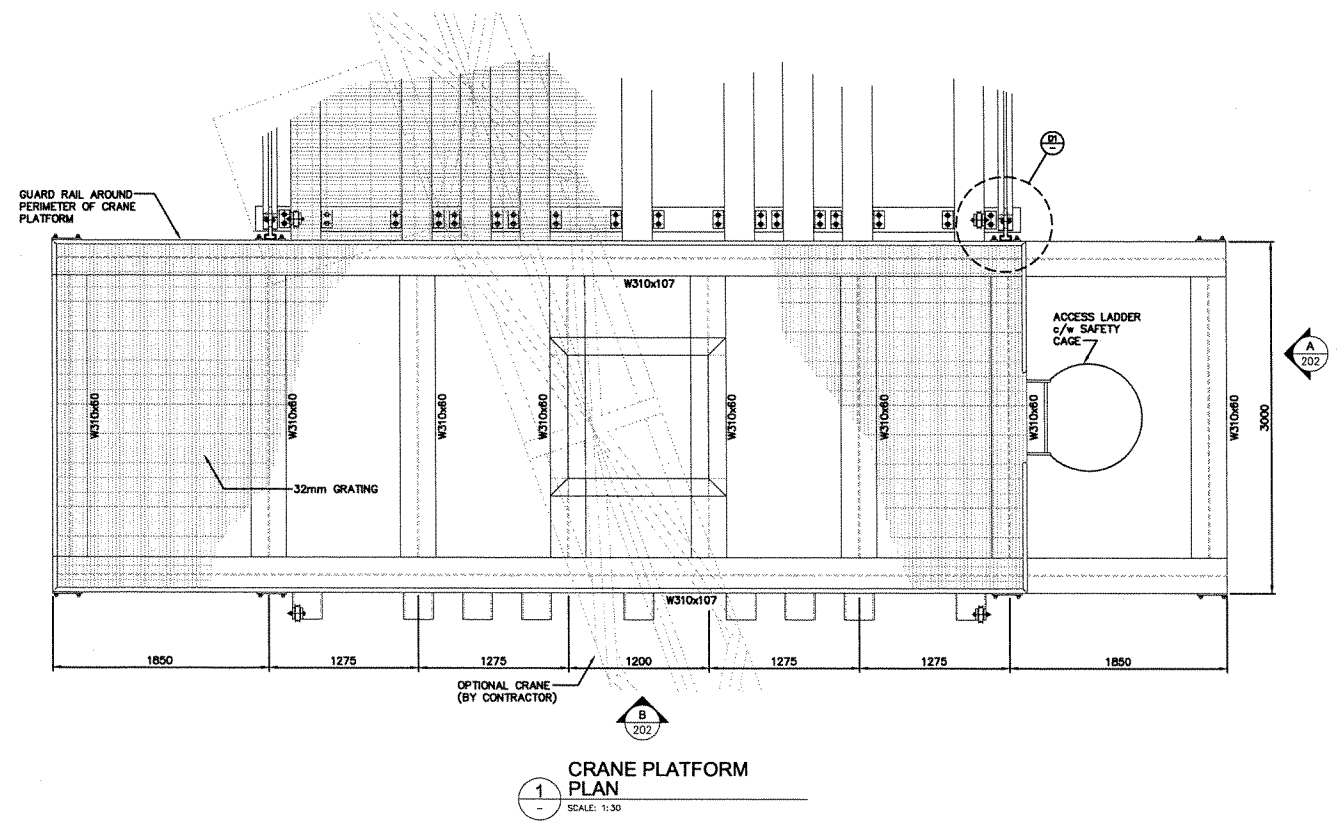
ROAD WORKS SHIELD AND GANTRY*

TYPICAL PLAN & ELEVATION

DATE :	FEB 2004	SCALE :	AS NOTED
DESIGN :	KD	STRUCTURE No. :	RSG-01
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DRAWN :	MZ	DRAWING :	102

NOTES:

1. ALL STRUCTURAL STEEL MATERIALS, FABRICATION AND ERECTION TO CSA S16.1, LATEST EDITION.
2. ALL STRUCTURAL STEEL TO BE G40.21 GRADE 350 U.N.O. MILL CERTIFICATES WILL BE REQUIRED.
3. ALL WELDING TO BE E70XX ELECTRODES AND 1/4" FILLETS U.N.O. NDT BY INDEPENDENT TESTING AGENCY AS REQUIRED BY THE ENGINEER.
4. ALL BOLTS TO BE A325 AND 3/4" DIA. U.N.O.
5. PRECAST CONCRETE F'c TO BE 35 mpa.



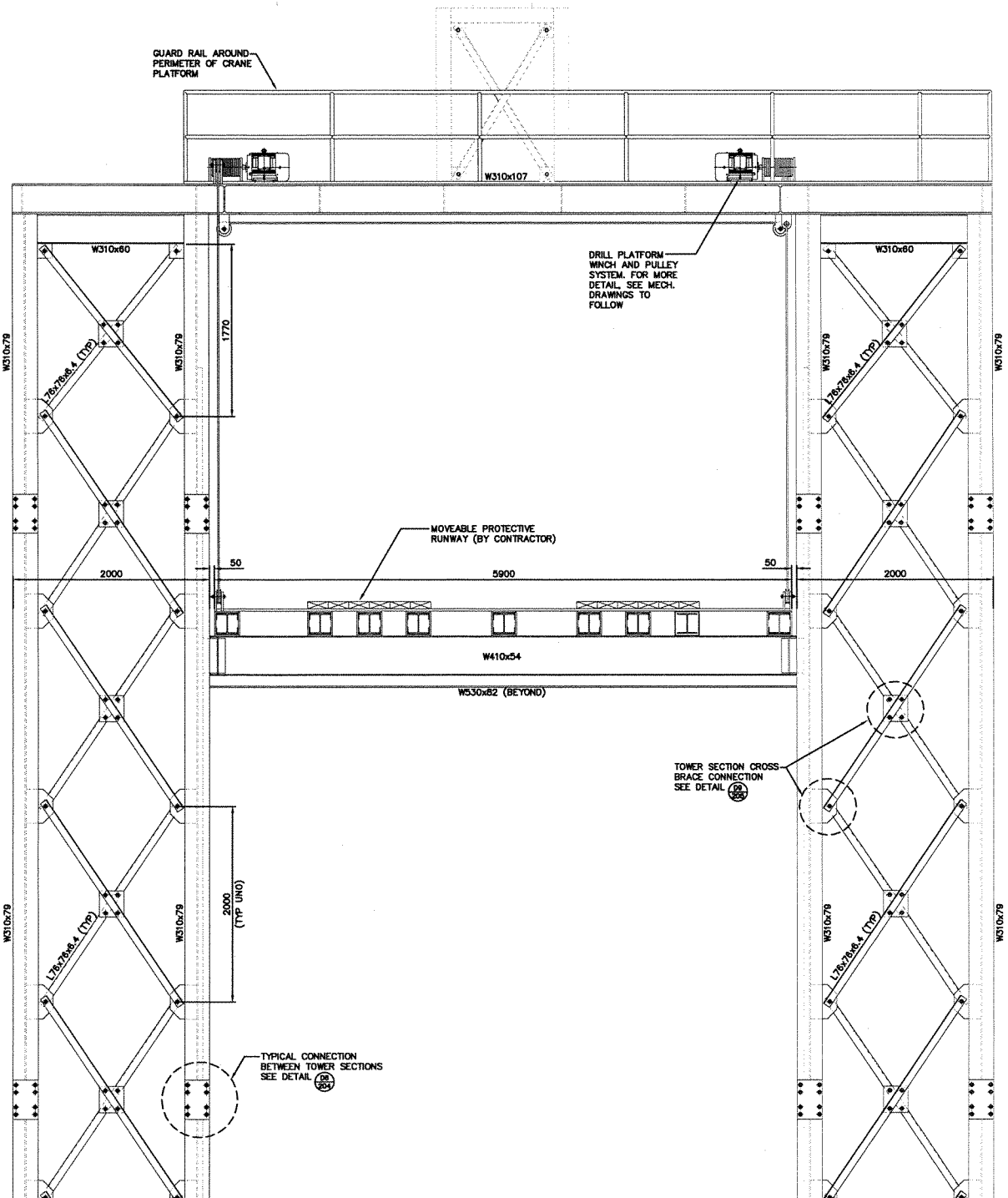
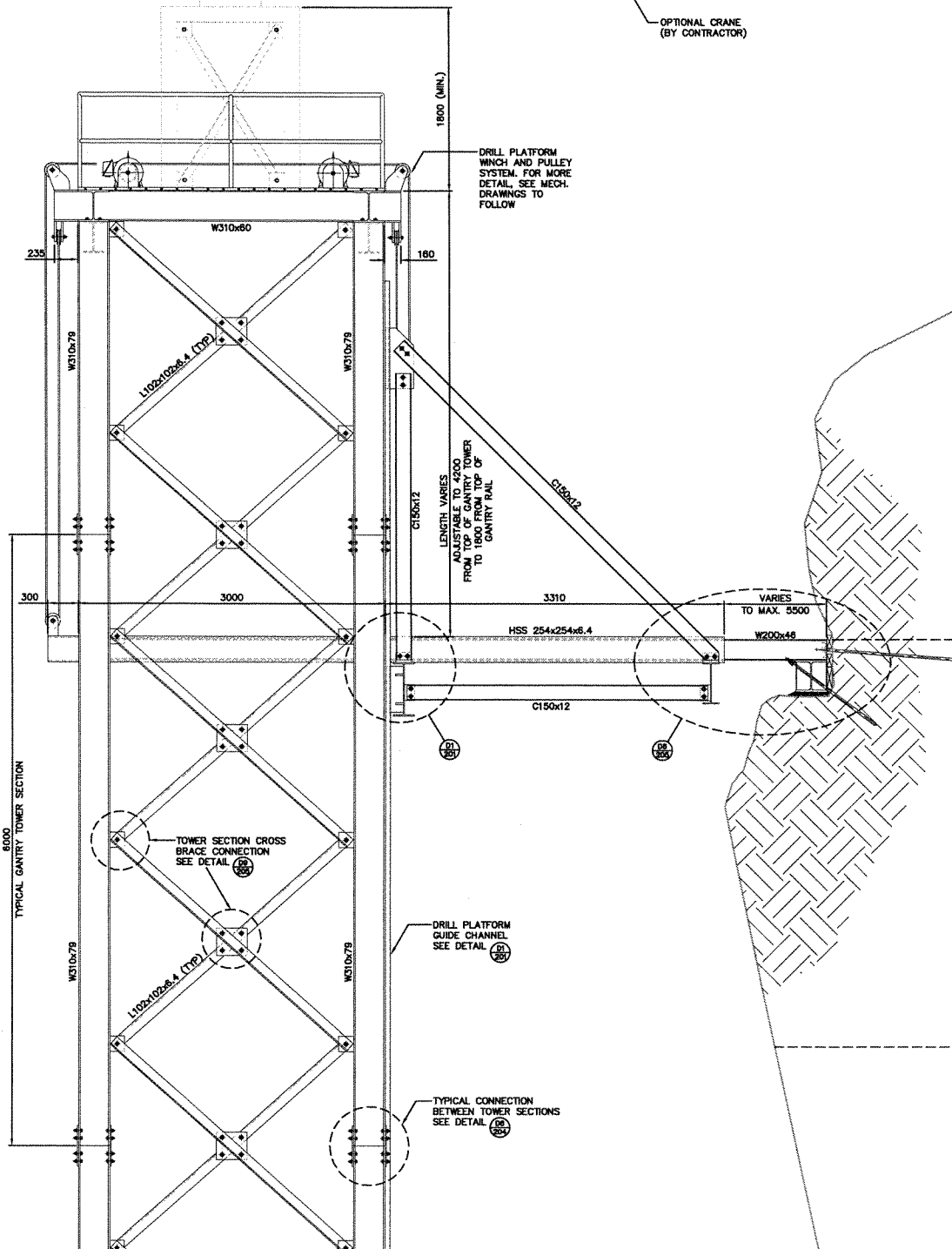
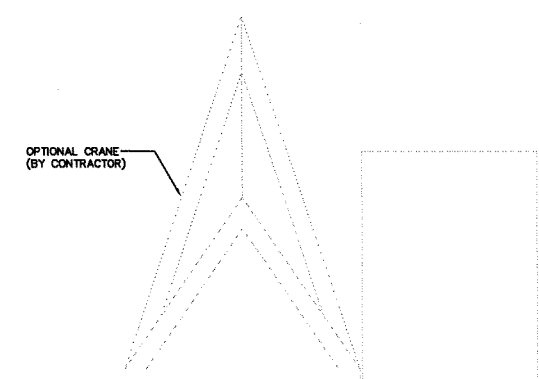
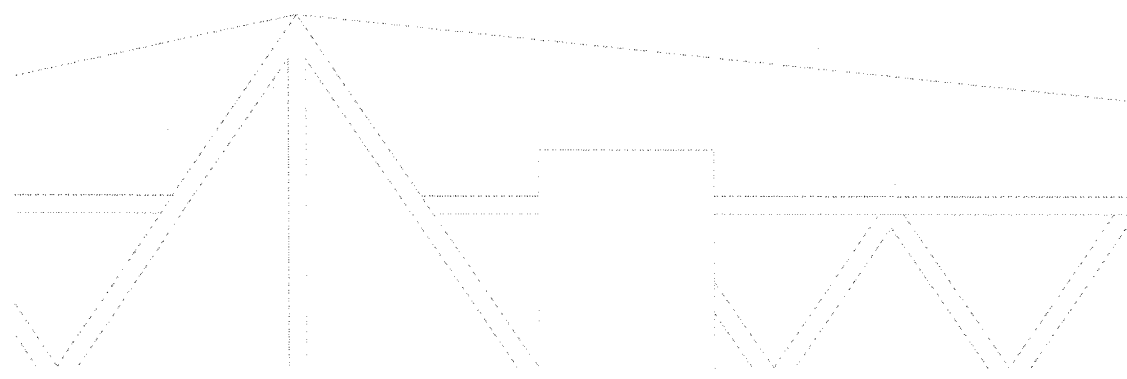
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ROAD WORKS SHIELD AND GANTRY*
DRILL AND CRANE PLATFORMS PLANS & DETAILS

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NOTES:



A GANTRY TOWER AND PLATFORMS - ELEVATION
SCALE: 1:30

B GANTRY TOWER AND PLATFORMS - ELEVATION
SCALE: 1:30

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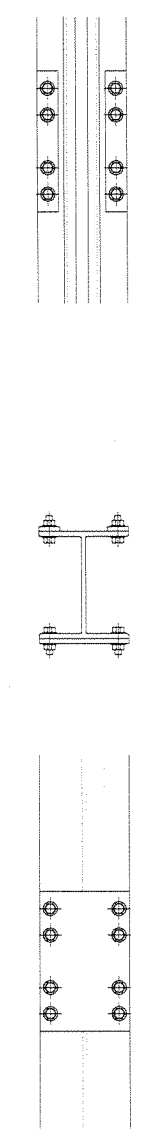
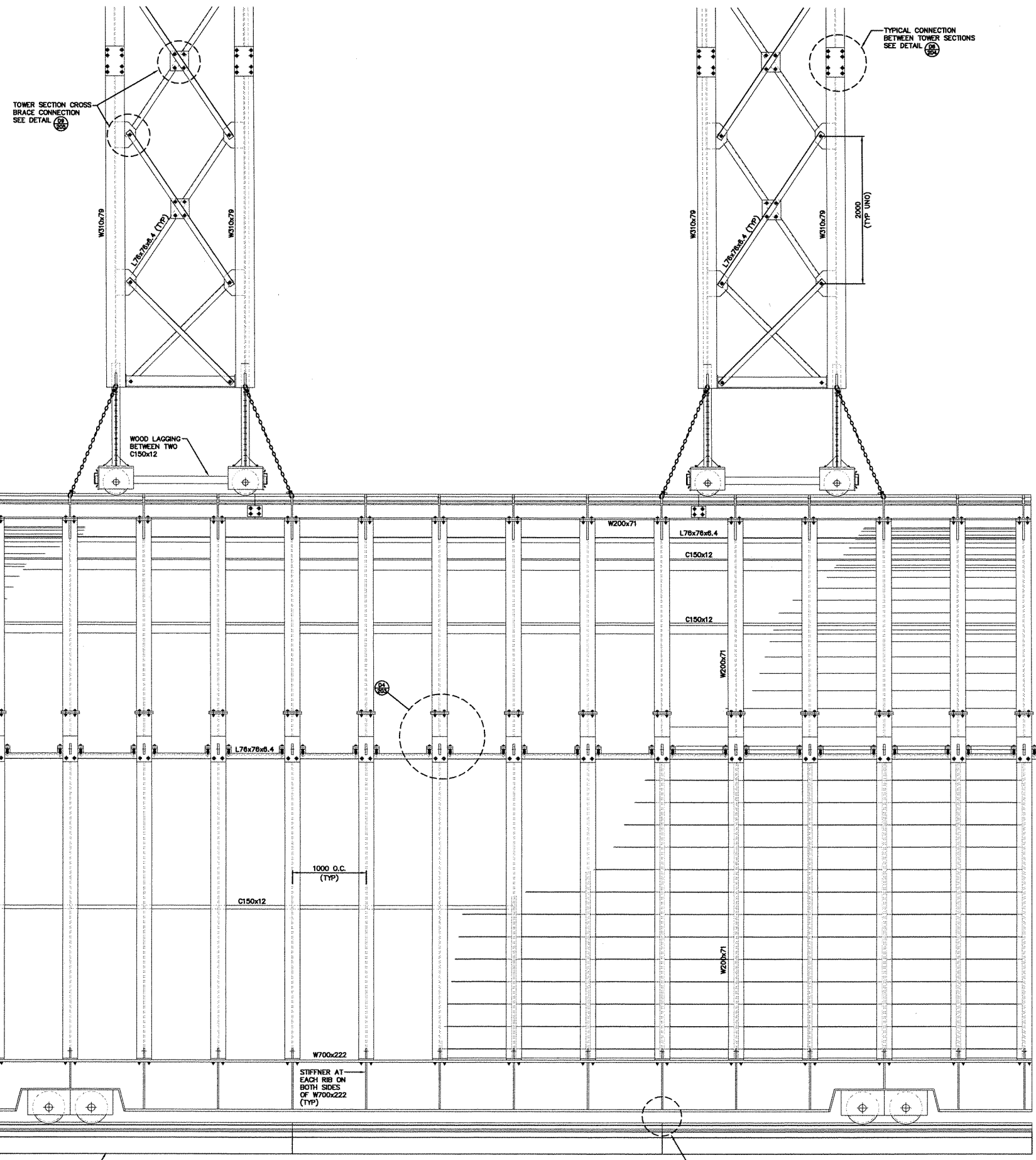
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ROAD WORKS SHIELD AND GANTRY*

GANTRY TOWER AND PLATFORMS - ELEVATIONS

DATE :	FEB 2004	SCALE :	AS NOTED
DESIGN :	KD	STRUCTURE No. :	RSG-01
CHECKED :	KD	ISSUE :	DRAWING :
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NOTES:



D6 CONNECTION DETAIL OF GANTRY TOWER SECTIONS
SCALE: 1:10

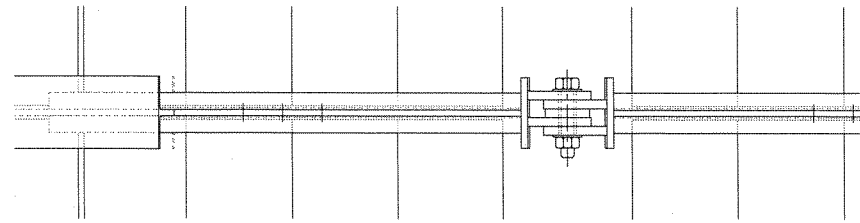
ROAD SHIELD & GANTRY ELEVATION
SCALE: 1:30

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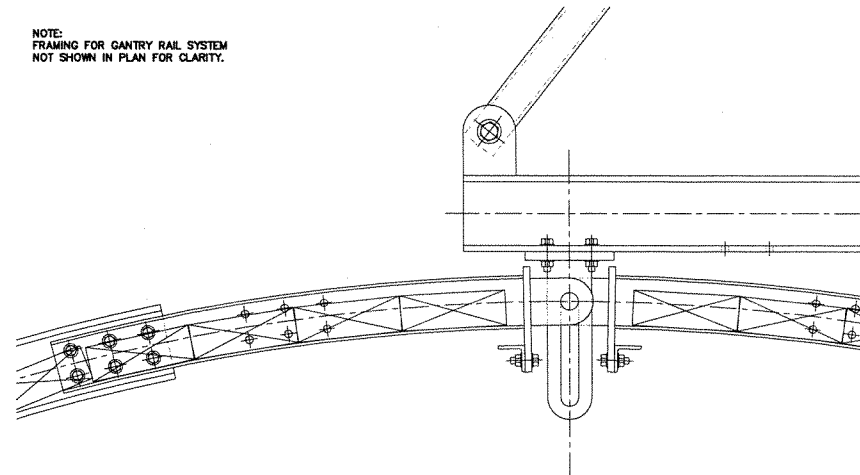
ROAD WORKS SHIELD AND GANTRY*			
ROAD SHIELD AND GANTRY ELEVATION & DETAILS			
DATE :	FEB 2004	SCALE :	AS NOTED
DESIGN :	KD	STRUCTURE No. :	RSG-01
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NOTES:



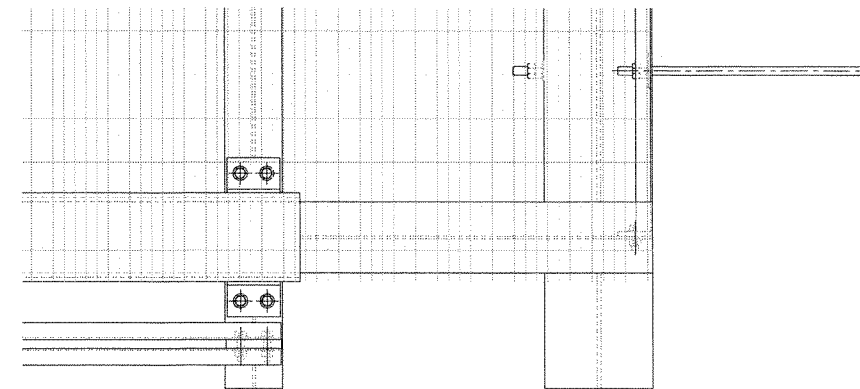
PLAN

NOTE:
FRAMING FOR GANTRY RAIL SYSTEM
NOT SHOWN IN PLAN FOR CLARITY.

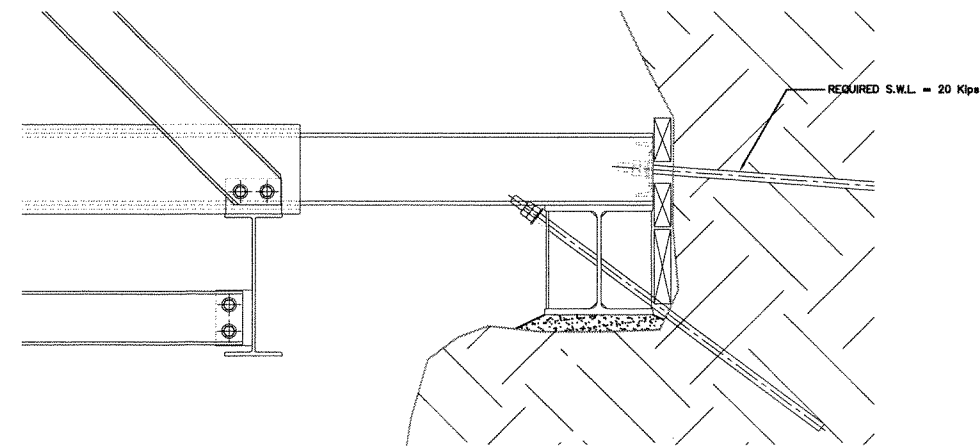


SECTION

D7 ROAD SHIELD AT CROWN
SCALE: 1:10



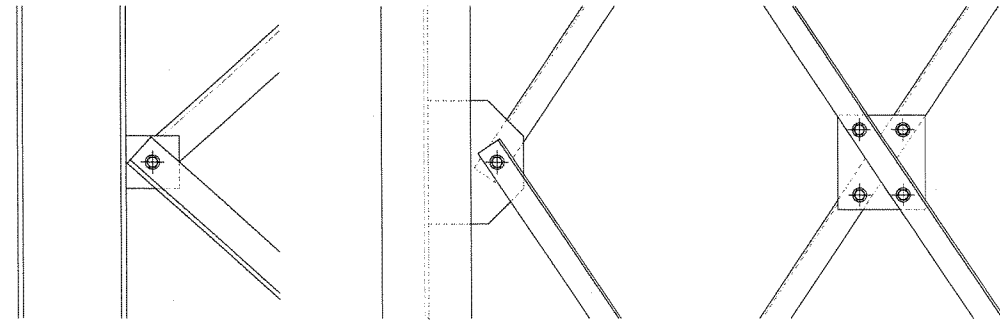
PLAN



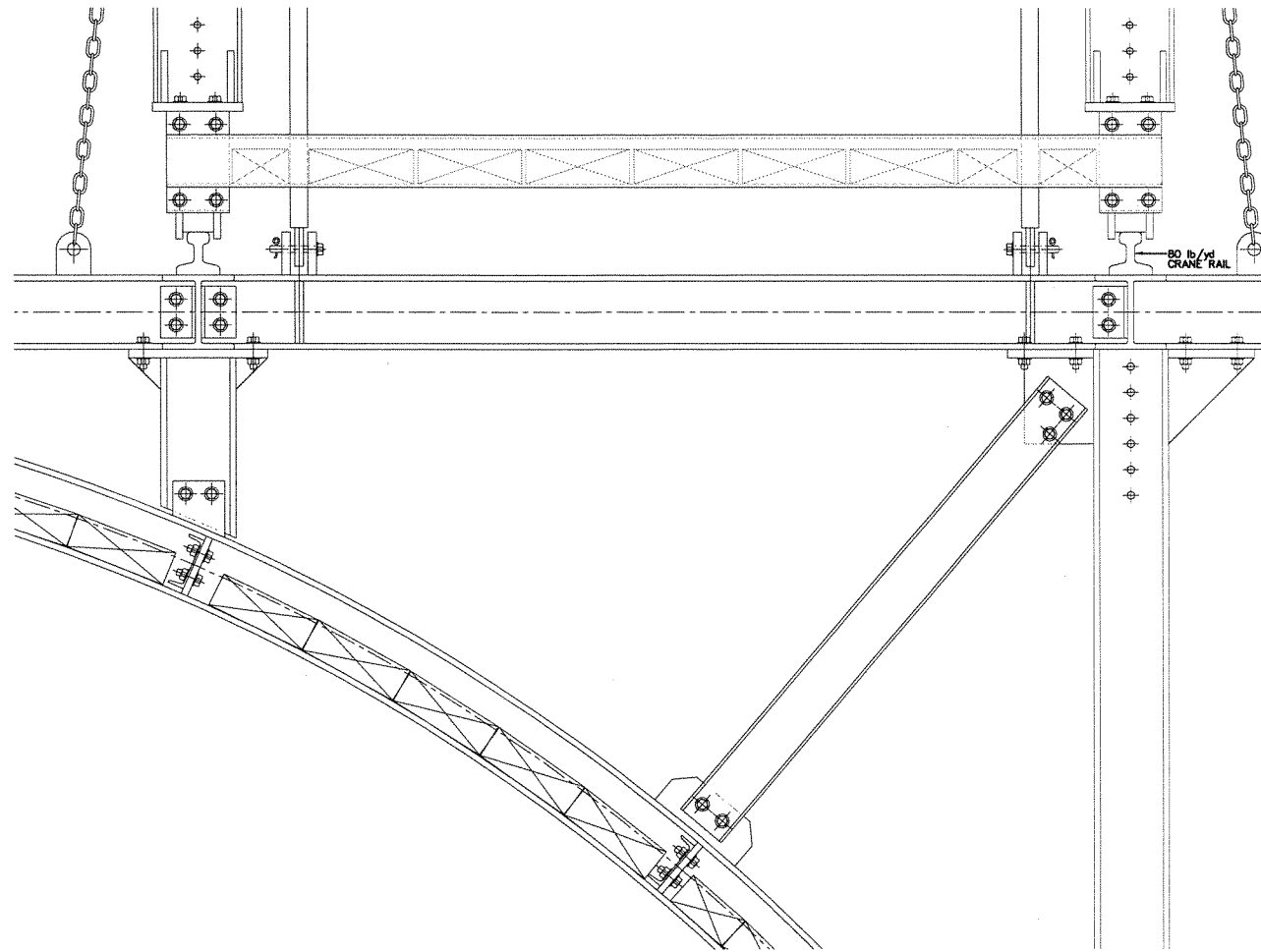
ELEVATION

D8 DRILL PLATFORM BRACING
AT EXTENDABLE DECKING
SCALE: 1:10

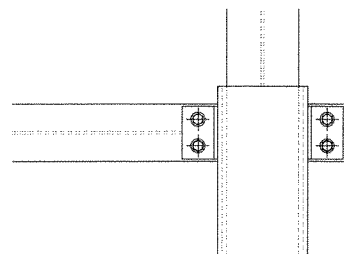
REQUIRED S.W.L. = 20 Kips



D9 GANTRY TOWER BRACING
CONNECTIONS
SCALE: 1:10



D10 GANTRY RAIL SYSTEM
SCALE: 1:10
TYPICAL AT EACH RIB ALONG THE 31m OF GANTRY TRAVEL



D11 DRILL PLATFORM EXTENDABLE
DECKING DRIVE SYSTEM
SCALE: 1:10

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MISCELLANEOUS DETAILS			
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DRAWN :	MZ	A	205