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Dato Haji Mhd Khalil, Secretary General, Ministry of Works

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水 田 加代子 所 長

小樋山 覚 次 長

貝 原 孝 夫 次 長

山 本 有 三

付屬資料 5 収集資料一覽表

No	資料の名称	収集先又は発行機関	備考
1	Gudelines on " Processing of Applications for Gas Pipe Crossing at Rivers, Drainsand Canals." 1993	J K R	原本
2	Section 11 Prestressing for Structures	同 上	比 -
3	Standard Specification for Road Works	同 上	原本
4	JKRspecification for bridge Live Load	同 上	原本
5	A Road Traffic Volume Malaysia 1992	同 上	原本
6	Guide on Geometric of Design of Roads	同 上	原本
7	Some Statistics on Roards	同 上	比 -
8	Malaysian Roads General Information 1990	同 上	原本
9	Rate of Materials, Plant and Labour	同 上	原本
10	Data of Bridge Management System	同 上	原本
11	Geological Map of Peninsular Malaysia	同 上	原本
12	Quaternary Geological Map Penisular Malaysia	同 上	原本
13	T型連続桁設計図	同 上	比 -
14	PC Available in Bidge Unit JKR	同 上	比 -
15	Engineering Software in Bridge Unit	同 上	比 -
16	J K R 橋梁課の電算構造解析例	同 上	比 -
17	LIST OF CONSULTANT	同 上	比 -
18	コンピュータに依る設計例	同 上	原本

注：「*」：資料注釈参照

No	資料の名称	収集先又は発行機関	備考
19	あるコンサルタントの会社案内	Arup Jururunding	原本
20	Prestressed Concrete Hollowcore Flooring Systems	HUME Industry	原本
21	ELASTOMOMERIC BERINGS to BS5400 part 9	同 上	原本
22	HUMESTOP sealing system	同 上	原本
23	ELASTOMERIC BEARING STRIPS to BS 5400 part 9	同 上	原本
24	EXTRUDED RUBBER PRODUCTS	同 上	原本
25	Hume Industrial Rubber Products	同 上	原本
26	NEWS LETTER	同 上	原本
27	The longevity of natural rubber in engineering applications	同 上	原本
28	Concrete Products Marketing Price List	同 上	原本
29	Technical Data	同 上	原本
30	Computer Engineering Applications	ARUP JURURUNDING 社	原本
31	PREPAK Prestress Analysis	同 上	比 *
32	OasysBRILLO	同 上	比 *
33	DATAPREP HOLDINGS BHD. PROFILE		原本
34	Technical Data	SOLSISNET 社	原本
35	Software Data	同 上	原本
36	Bridgesoft 100	Bridge Systems 社	原本
37	Bridgesoft 200	同 上	原本
38	Bridgesoft 210	同 上	原本

注：「*」：資料注釈参照

No	資料の名称	収集先又は発行機関	備考
39	Bridgesoft 220	Bridge Systems 社	原本
40	Bridgesoft 300	同上	原本
41	データサービス情報	DATAPREP 社	比

注：「*」：資料注釈参照

資料注釈

18: コンピュータに依る設計例

Design notes(Gridgesoft 100)

Substructure(Bridgesoft 200)

Design notes(Bridgesoft 300)

29: Technical Data

BOX CULVERTS

L-SHAPE UNITS

MANHOLES

SEPTIC TANKS

U-DRAINS & U-DRAINS WITH DRY WEATHER FLOW

BRIDGE BEAMS

CONCRETE PIPES CONCRETE JACKING PILE

HIGH FREQUENCY VIBRATED CONCRETE PIPES

SPUN CONCRETE PILES

PIPELINE DESIGN AND INSTRATION

REINFORCED CONCRETE LARGE BOX CULVERTS

REINFORCED CONCRETE SEPTIC TANK

REINFORCED CONCRETE OPEN DRAINS

31: PREPAK Prestress Analysis

PREPAK is an interactive analysis system for use in the design of any prismatic or non-prismatic pre- or post-tensioned concrete beam and slab structure. However, it contain a number of facilities specific to multispan bridge structures with several construction stages. The major function of the system is to provide for the storages, manipulation and presentation of prestressing data.

32: OasysBRILLO

BRILLO is an BRIDGE LOADING program which automates the load application and reduces the whole analysis to a single action. An analysis which would normally take two weeks or more can be completed in a day. It evaluates envelopes of all the load effects that are usually required in design and presents them in concise, readable form with extensive use of graphics.

34: Technical Data

HP DesignJET 850C Colour Plotter
HP DraftPro Plus Large-Format Pen Plotter
HP DesignJet 200 Monochrome Inkjet Plotter
The HP LaserJet 4 Printer
HP Vectra XM PC Series

35: Software Data

GT STRUCL

The Premier structural analysis and design software for A-E-C, utilities, offshore, industrial and civil works

RC NEWS

Software for Civil & Structural Engineers and Detailers

PORTFOLIO

Analysis & Design Softwares
Draughting Software

CADS Analyse

Static Analysis of Plane Frames and Trusses

CADS Section

Geometric Properties of Complex Section

CADS 5950

Design and checking of steelwork

CADS Connections

The Analysis and Design of Steelwork Connections

CADS 8110

Analysis and design of continuous beams, slabs, ribbed slabs and columns in reinforced concrete.

CADS Link

The link from CADS 8110 to AutoCAD

Slab

Design of two-way spacing slabs to BS8110

CADS BASE 2

Rapid design and checking of reinforced or plain concrete column bases.

CADS RETAIN

Checks the stability of existing or proposed designs for free-standing or propped cantilever retaining walls to BS58110, BS5400 and DTp BD37/88.

CADS-SHEET

Analysis and design of sheet pile walls

CADS SLIP

Slope stability analysis

CADS DE

Drawing environment: CADS DE provides a supportive, userfriendly interface to AutoCAD and simplifies the initial setting up of a 2D draughting system.

CADS DM

Drawing manager: CADs DM is the essential drawing file organiser for the AutoCAD user. Whether stand alone, or on a network, CADs DM provides the quick and easy way to reliable AutoCAD drawing management.

CADS SCALE

Almost everything is manufactured, fabricated, welded, constructed or assembled needs to be drawn with enlarged details to give a clearer picture of the component parts. For example architects and engineers working in construction use 1:50 and 1:100 general arrangements with sections and details enlarged to 1:20 or 1:1.

CADS SCHEDULE

Bar Bending Schedules Software: CADs SCHEDULES put the power of your desk top computer to work on an ideal application. You can now see that scheduling errors and bars that don't fit are thing of the past.

CADS RC

Reinforced concrete detailing : CADs RC sets the standard for RC Detailing with AutoCAD Release 11 on PC's and UNIX workstations.

CADS-SW

Active steelwork Detailing : Using CADs-SW, the production of steel drawing is now quicker, easier and more accurate than is possible by any other means. It reflects the expert knowledge of engineers with well over 100 years of practical design and detailing experience in the industry. The CADs program design team, perhaps the most experienced in the UK in this specialised field, has taken the full potential of AutoCAD Release 11 and used it to build greater performance and flexibility into the new version of this program.

CADS 5628

Rapid and versatile analysis of laterally loaded masonry panels to BSS5628.

CADS TRAINING SERVICES

Professional training in the use of CADs drafting software ensures that you get the maximum short-term benefit from your computer investment together with maximum long-term productivity.

SOFTWARE

For civil & structural engineers ; CADs supply a wide range of computer programs to suite your requirements:

- CADs reinforced concrete suite.
- CADs Masory wall design suite.
- MicroDrainage design suite.
- CADs ground engineering suite.
- CADs 'Add-on' software for AutoCAD.
- CADs Training and after sales support.
- Your hardware requirements.
- CADs open system approach.

CADs DE V4

Drawing environment : CADs DE is an interface to AutoCAD for construction industry users and offers unrivalled productivity when producing CAD's.

- 36: Bridgesoft 100 : Simple span steel logging bridge superstructure
- 37: Bridgesoft 200 : Simple span concrete highway bridge substructure and superstructure
- 38: Bridgesoft 210 : Continuous span concrete highway bridge substructure and superstructure
- 39: Bridgesoft 220 : Continuous span steel I girder highway bridge substructure and superstructure
- 40: Bridgesoft 300 : SkyTrain elevated guideway

付屬資料 6 新聞報道內容

Govt moves to upgrade bridges and axle loading

By SITI HAJAR SULAIMAN

IN A MOVE to allow heavy trucks on the road, the Works Ministry has initiated efforts to upgrade bridges in the country and increase the load carrying capacity of lorries and trucks.

The rapid growth of traffic volume and loads has prompted the Government to review the new Live Loads Axle Specification — a measurement of load capacity allowed on Malaysian roads and bridges.

Under this specification the load per axle is put under three categories namely short term, mid term and long term. The present permissible level of load per axle for short-term category is 10 tonnes.

The ministry wants to upgrade the axle loading for short term category to 12.5 tonnes per axle.

"The move will relief a lot of transportation problems," said Works secretary-general Datuk Mohd Khalil Datuk Mohd Noor after signing a memorandum of understanding with the Japan International Cooperation Agency (Jica) for the study on the standardisation of bridge design in Malaysia in Kuala Lumpur yesterday.

Mohd Khalil said all new bridge components in the country will be designed according to the new configurations under the present Live Loads Axle Specification.

Presently, there are 14,000 bridges in Malaysia, 5,000 of



□ Mohd Khalil (left) signing the MOU document. On his left is Mr Kazuhiro Nishikawa, leader of Jica Preparatory Study Team.

which are Federal-owned, while the remaining 9,000 are owned by state governments.

A National Axle Load Study was carried out from 1986 to 1988. Based on the findings of the study, the ministry came up with a new specification to replace the Live Loads Specification which was based on the old British Standards.

On the RM5 million Jica study, it is expected to be completed in two years.

The study will carry out data collection and field survey; identify bridge types; establish a standard design system, and establish a drawing system and prepare a bridge design manual.

"Among the objectives of the study are to design a new series of standard bridges to cater for new loading, to develop a computer aided design and drafting (CADD) system for the design of the bridges and establish a bridge design manual in-

cluding planning, structural details, cost estimates and construction methods.

Mohd Khalil said the study is timely as it will benefit suppliers and contractors of the bridge construction industry as standardised bridge and construction will be established nationwide.

"Any existing design and construction deficiencies can also be eliminated thereby reducing bridge maintenance and rehabilitation workload of the Government in coming years," he said.

JICA