

- GENERAL NOTES
1. ALL DIMENSIONS, COORDINATES AND ELEVATIONS ARE IN METERS.

2. ALL COORDINATES ARE BASED ON UTM PROJECTION, GRID ZONE 42N, WGS 1984 DATUM. LEVELS TAKEN W.R.T BS-01. COORDINATES TAKEN WITH SATELLITE. PROJECTION SCALE FACTOR 1.000.

3. REFERENCE POINT IS BS-01. N=3683280.201m; E=714621.147m; ELEVATION=565.447m.

4. INTERNAL CURVE RADIUS OF ROADS WILL BE 12.0m, OTHERWISE INDICATED.

5. THE GRADATION, PHYSICAL PROPERTIES AND PLACING FOR BASE, SUBBASE AND ASPHALT SHALL BE IN ACCORDANCE WITH NGP-000-SCW-15.03-2002-00 SPECIFICATION FOR ROAD AND PAVING WORKS.

6. FOR DETAIL OF ASPHALT ROAD STRUCTURE, REFER TO NGP-000-SCW-15.01-2001-23 STANDARD DRAWING OF ROAD SECTIONS.

7. FOR DETAIL OF REINFORCEMENT CONCRETE PAVING, REFER TO NGP-000-SCW-15.01-2002-23 STANDARD DRAWING OF PAVINGS.

8. FOR DETAIL ELEVATIONS OF PAVEMENTS, REFER TO NGP-000-SCW-15.01-2006-23 GRADING AND VERTICAL PLAN.

9. FROM POINT A TO POINT G, THIS PART IS THE EXISTING ASPHALT ROAD, IT SHOULD BE REPAIRED BASED ON THE ACTUAL CONDITION AFTER THE CONSTRUCTION WORK. IF EXISTING ROAD STRUCTURE IS IN GOOD CONDITION, THE EXISTING ASPHALT OR BASE COURSE CAN BE USED.

10. COORDINATES IN THIS DRAWING ARE FOR ROAD CENTERS OR SCOPE OF PAVEMENTS, OTHER PAVEMENTS COULD BE PAVED ACCORDING TO PLOT PLAN ARRANGEMENT, CONSTRUCTIONS OF BUILDINGS AND STRUCTURES.

11. BEFORE CONSTRUCTION OF ROADS AND PAVEMENTS, CULVERTS ARE SUGGESTED TO BE LOCATED FIRST ACCORDING TO RELEVANT DRAWING.

12. FOR DETAILS OF KERBS REFER TO NGP-000-SCW-15.01-2002-23 STANDARD DRAWING OF PAVINGS.

13. THE SLEEVES SHOWN IN THIS DRAWING IS INDICATED ONLY, THE DETAILS SHOULD REFER TO RELEVANT DRAWINGS OF CORRESPONDING PROFESSIONS.

14. SUMP PIT/TRAP WELL/MAN HOLE AND DROP WELL REFER TO NGP-000-SCW-15.01-0010-00, VALVE PIT REFER TO NGP-000-SCW-15.01-0009-00 SOAK PIT AND SEPTIC TANK REFER TO NGP-000-SCW-15.01-0008-00.

15. THE CONSTRUCTION OF CULVERTS/SLEEVES WILL BE CARRIED OUT FIRST THEN THE CONSTRUCTION OF NEARBY ROAD/PAVEMENTS WILL BE PROCEEDED.

16. BEFORE PROCEEDING FOR ROAD/PAVEMENT CONSTRUCTION, THE HAND HOLES/PITS WILL BE LOCATED AS PER NGP-000-GEN-15.01-0002-00, UNDERGROUND SERVICES LAYOUT.

17. MATERIAL TAKE OFF:
PRILIMINARY ASPHALT ROAD : 1915 m² (WIDTH=7m)
SECONDARY ASPHALT ROAD: 3155 m (INCLUDING RE-CONSTRUCTION FROM POINT A TO POINT G, 1130m)

10cm THK. RC PAVING: 20949 m²
15cm THK. RC PAVING: 5562 m²
20cm THK. RC PAVING: 390 m²
7.5cm THK. GRAVEL PAVING: 39140m²
CONCRETE BRICK PAVEMENT: 1656 m²(INCLUDING 2.0m WIDTH WALKWAY : 95m)

ISSUED FOR APPROVAL
(MODIFIED UNDER PROJECT #14-0193)

LEGEND

	CONCRETE PAVING (LPG GANTRY AREA, THK.=20cm)		CONCRETE PAVING THK.=15cm
	SECONDARY ASPHALT ROAD		GRAVEL PAVING THK.=7.5cm
	PRIMARY ASPHALT ROAD		CONCRETE BRICK
	STONE PITCHING		SIDE SLOPE
RC PAVING: REINFORCEMENT CONCRETE PAVING			

REFERENCE POINT

BS-01	N (m)	E (m)	ELEVATION(m)	REFERENCE
SURVEY COORDINATE	3683280.201	714621.147	565.447	UTM WGS1984

REFERENCE DOCUMENTS

TITLE	DOC No.
DESIGN BASIS FOR ROADS AND PAVING	NGP-000-SCW-15.05-2001-00
SPECIFICATION FOR EARTH WORK AND SITE PREPARATION	NGP-000-SCW-15.03-2001-00
SPECIFICATION FOR ROAD AND PAVING WORKS	NGP-000-SCW-15.03-2002-00
GENERAL PLOT PLAN	NGP-000-GEN-15.01-0001-00
STANDARD DRAWING OF ROAD SECTIONS	NGP-000-SCW-15.01-2001-23
STANDARD DRAWING OF PAVINGS	NGP-000-SCW-15.01-2002-23
GRADING AND VERTICAL PLAN	NGP-000-SCW-15.01-2006-23
UNDERGROUND SERVICES LAYOUT	NGP-000-GEN-15.01-0002-00

01	Approved for Construction	XIAO.	YANG.	ZHANG.	QIU.	17/08/2016
02	Approved for Construction	XIAO.	YANG.	ZHANG.	QIU.	08/07/2016
C1	Issued for Approval	XIAO.	YANG.	ZHANG.	QIU.	08/06/2016
C	Issued for Approval	XIAO.	YANG.	ZHANG.	QIU.	20/05/2016
B	Issued for Review	XIAO.	YANG.	ZHANG.	QIU.	31/03/2016
A	Internal Discipline Check	XIAO.	YANG.	ZHANG.	QIU.	16/03/2016
REV.	DESCRIPTION	PRPD	CHKD	REV'D	APPD	DATE

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E-Mail: corporate@zishanengineers.com Website: www.zishanengineers.com

HONG KONG HUIHUA GLOBAL TECHNOLOGY LIMITED

PROJECT TITLE: NASHPA GAS PROCESSING AND LPG RECOVERY PLANT PROC-FC-CB/NASHPA/PROJ-1247/2015

DRAWING TITLE: ROADS & PAVEMENT LAYOUT

PROJECT NO. NASHPA 1247

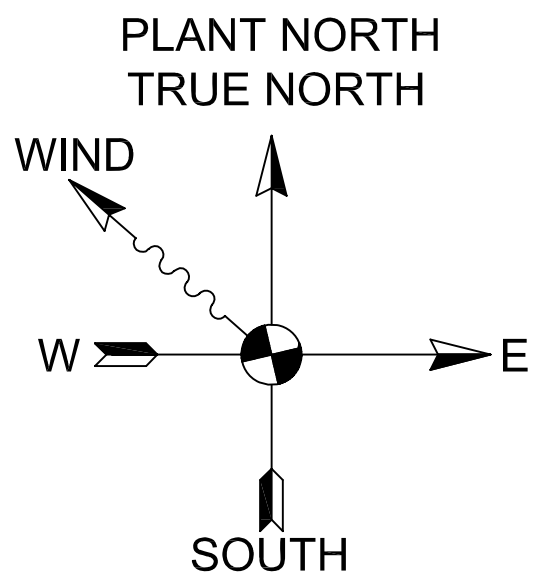
DRAWING NO. NGP-000-SCW-15.01-2003-23

REV. SCALE SHEET 01 1:1000 OF 2

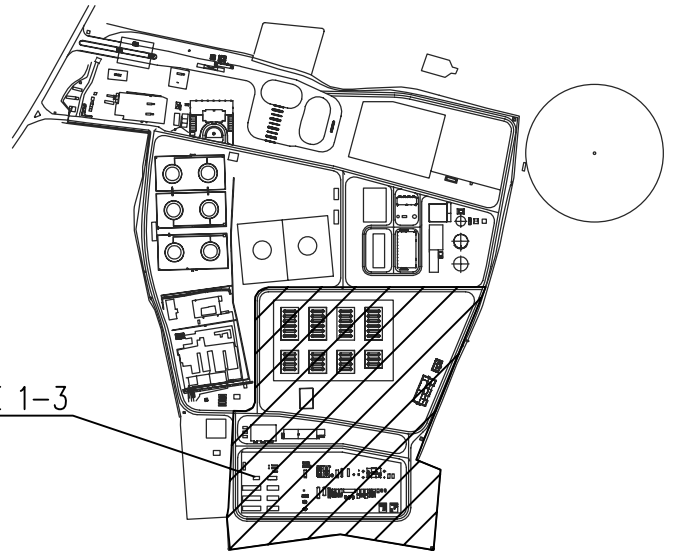
REFERENCE DOCUMENTS FOR CULVERTS/SLEEVES

CULVERTS/SLEEVES	TITLE	DOC No.
CULVERTS	DETAIL DRAWING OF CULVERTS FOR OGDC FLARE ROUTING	NGP-000-SCW-15.01-2009-23
	DETAIL DRAWING OF CULVERT FOR PIPING FLARE ROUTING	NGP-000-SCW-15.01-2011-23
TELECOM SLEEVE	DETAIL DRAWING OF CULVERT FOR OGDC CONDENSATE PIPING ROUTING	NGP-000-SCW-15.01-2012-23
	TELECOM EQUIPMENT AND CABLE LAYOUT AT NASHPA PLANT	NGP-000-TEL-15.01-0004-00
INSTRUMENT SLEEVE	INSTRUMENT CABLE ROUTING	NGP-000-INS-15.01-0002-24
	LIGHTING LAYOUT FOR STREET	NGP-000-ELE-15.01-0003-00
ELECTRICAL SLEEVE	EARTHING AND LIGHTNING PROTECTION LAYOUT	NGP-000-ELE-15.01-0004-00
	CABLE ROUTING LAYOUT FOR GENERAL AREA	NGP-000-ELE-15.01-0002-24
FIRE WATER SLEEVE	PIPING LAYOUT FOR FIRE WATER SYSTEM (UNIT-35)	NGP-008-PIP-15.01-0005-24
PRODUCED WATER SLEEVE	SINGLE LINE SCHEME FOR PRODUCED WATER SYSTEM (UNIT-38)	NGP-008-PIP-15.01-0001-24
WATER SUPPLY SLEEVE	PIPING LAYOUT FOR WATER SUPPLY AND DISTRIBUTION SYSTEM(UNIT-37)	NGP-008-PIP-15.01-0001-24
PIPING SLEEVE	PIPING GENERAL ARRANGEMENT FOR LPG LOADING PUMPS SYSTEM	NGP-004-PIP-15.01-0002-10
	PIPING GENERAL ARRANGEMENT FOR DIESEL DAY VESSEL	NGP-010-PIP-15.01-0004-13
	PIPING GENERAL ARRANGEMENT FOR DIESEL FUEL SYSTEM	NGP-010-PIP-15.01-0003-13

REFERENCE DOCUMENTS FOR CULVERTS/SLEEVES					
CULVERTS/SLEEVES	TITLE	DOC No.	CULVERTS/SLEEVES	TITLE	DOC No.
CULVERTS	DETAIL DRAWING OF CULVERTS FOR OGDCL FLARE ROUTING	NGP-000-SCW-15.01-2009-23	FIRE WATER SLEEVE	PIPING LAYOUT FOR FIRE WATER SYSTEM (UNIT-35)	NGP-007-FIF-15.01-0004-24
	DETAIL DRAWING OF CULVERT FOR PIPING FLARE ROUTING	NGP-000-SCW-15.01-2011-23	PRODUCED WATER SLEEVE	SINGLE LINE SCHEME FOR PRODUCED WATER SYSTEM (UNIT-38)	NGP-008-PIP-15.01-0005-24
	DETAIL DRAWING OF CULVERT FOR OGDCL CONDENSATE PIPING ROUTING	NGP-000-SCW-15.01-2012-23	WATER SUPPLY SLEEVE	PIPING LAYOUT FOR WATER SUPPLY AND DISTRIBUTION SYSTEM(UNIT-37)	NGP-008-PIP-15.01-0001-24
TELECOM SLEEVE	TELECOM EQUIPMENT AND CABLE LAYOUT AT NASHPA PLANT	NGP-000-TEL-15.01-0004-00	PIPING SLEEVE	PIPING GENERAL ARRANGEMENT FOR LPG LOADING PUMPS SYSTEM	NGP-004-PIP-15.01-0002-10
INSTRUMENT SLEEVE		NGP-000-INS-15.01-0002-24		PIPING GENERAL ARRANGEMENT FOR DIESEL DAY VESSEL	NGP-010-PIP-15.01-0004-13
ELECTRICAL SLEEVE	LIGHTING LAYOUT FOR STREET	NGP-000-ELE-15.01-0003-00		PIPING GENERAL ARRANGEMENT FOR DIESEL FUEL SYSTEM	NGP-010-PIP-15.01-0003-13
	EARTHING AND LIGHTNING PROTECTION LAYOUT	NGP-000-ELE-15.01-0004-00			
	CABLE ROUTING LAYOUT FOR GENERAL AREA	NGP-000-ELE-15.01-0002-24			



KEY PLAN



GENERAL NOTES

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- FOR DETAIL OF ASPHALT ROAD STRUCTURE, REFER TO NGP-000-SCW-15.01-2001-23 STANDARD DRAWING OF ROAD SECTIONS.
- FOR DETAIL OF REINFORCEMENT CONCRETE PAVING, REFER TO NGP-000-SCW-15.01-2002-23 STANDARD DRAWING OF PAVINGS.
- FOR DETAIL ELEVATIONS OF PAVEMENTS, REFER TO NGP-000-SCW-15.01-2006-23 GRADING AND VERTICAL PLAN.
- IF EXISTING ROAD STRUCTURE IS IN GOOD CONDITION, THE EXISTING ASPHALT OR BASE COURSE CAN BE USED AS THE NEW ROAD STRUCTURE.
- COORDINATES IN THIS DRAWING ARE FOR ROAD CENTERS OR SCOPE OF PAVEMENTS. OTHER PAVEMENTS COULD BE PAVED ACCORDING TO PLOT PLAN ARRANGEMENT, CONSTRUCTIONS OF BUILDINGS AND STRUCTURES.
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- THE SLEEVES SHOWN IN THIS DRAWING IS INDICATED ONLY, THE DETAILS SHOULD REFER TO RELEVANT DRAWINGS OF CORRESPONDING PROFESSIONS.
- SUMP PIT, TRAP WELL, MAN HOLE AND DROP WELL REFER TO NGP-000-SCW-15.01-0010-00, VALVE PIT REFER TO NGP-000-SCW-15.01-0009-00 SOAK PIT AND SEPTIC TANK REFER TO NGP-000-SCW-15.01-0008-00.
- THE CONSTRUCTION OF CULVERTS/SLEEVES WILL BE CARRIED OUT FIRST THEN THE CONSTRUCTION OF NEARBY ROAD/PAVEMENT WILL BE PROCEEDED.
- BEFORE PROCEEDING FOR ROAD/PAVEMENT CONSTRUCTION, THE HAND HOLES/PITS WILL BE LOCATED AS PER NGP-000-GEN-15.01-0002-00, UNDERGROUND SERVICES LAYOUT

ISSUED FOR APPROVAL
(MODIFIED UNDER PROJECT #14-0193)

LEGEND

	CONCRETE PAVING (LPG GANTRY AREA, THK=20cm)		CONCRETE PAVING THK=15cm
	CONCRETE PAVING THK=10cm		GRAVEL PAVING THK=7.5cm
	SECONDARY ASPHALT ROAD		CONCRETE BRICK
	PRIMARY ASPHALT ROAD		SIDE SLOPE
	STONE PITCHING		
RC PAVING: REINFORCEMENT CONCRETE PAVING			

REFERENCE POINT

	BS-01	N (m)	E (m)	ELEVATION(m)	REFERENCE
SURVEY COORDINATE		3683280.201	714621.147	565.447	UTM WGS1984

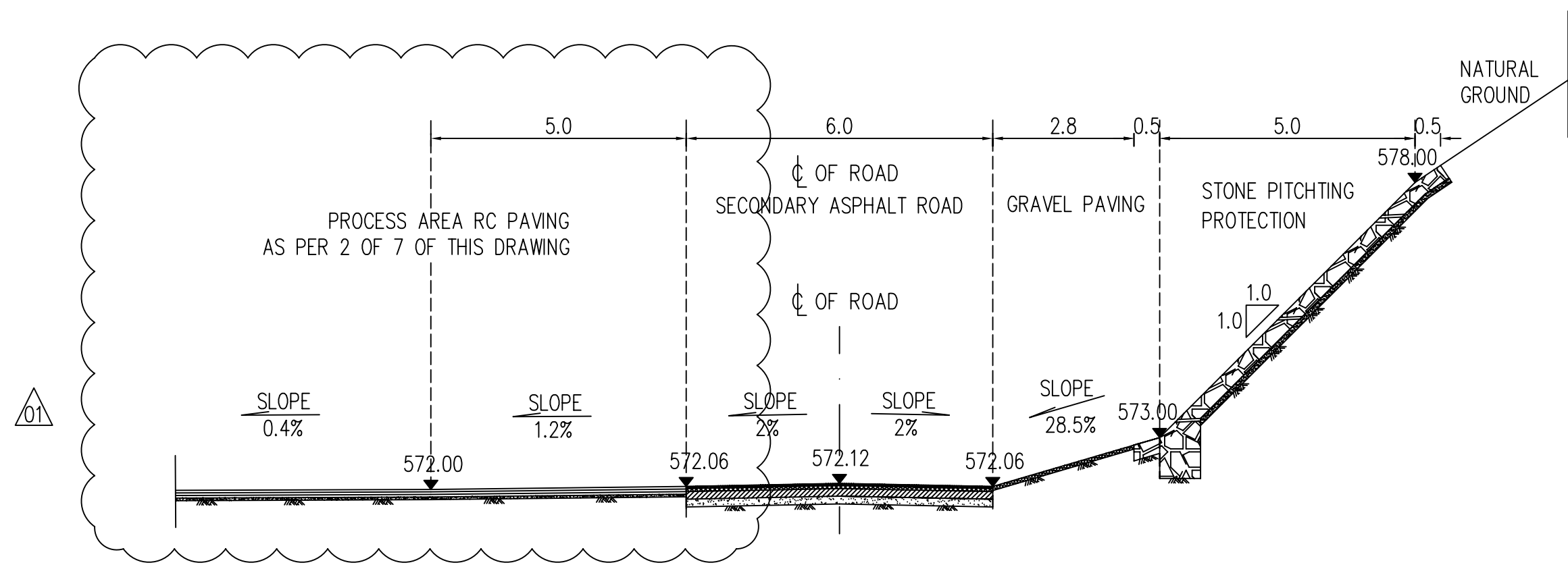
REFERENCE DOCUMENTS

TITLE	DOC No.
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SPECIFICATION FOR ROAD AND PAVING WORKS	NGP-000-SCW-15.03-2002-00
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STANDARD DRAWING OF ROAD SECTIONS	NGP-000-SCW-15.01-2001-23
STANDARD DRAWING OF PAVINGS	NGP-000-SCW-15.01-2002-23
GRADING AND VERTICAL PLAN	NGP-000-SCW-15.01-2006-23
UNDERGROUND SERVICES LAYOUT	NGP-000-GEN-15.01-0002-00

REV.	DESCRIPTION	PRPD	CHKD	REV'D	APPD	DATE
01	Approved for Construction	XIAO, YANG.	ZHANG, QIU.			17/08/2016
02	Approved for Construction	XIAO, YANG.	ZHANG, QIU.			08/07/2016
C1	Issued for Approval	XIAO, YANG.	ZHANG, QIU.			08/06/2016
C	Issued for Approval	XIAO, YANG.	ZHANG, QIU.			20/05/2016
B	Issued for Review	XIAO, YANG.	ZHANG, QIU.			31/03/2016
A	Internal Discipline Check	XIAO, YANG.	ZHANG, QIU.			16/03/2016

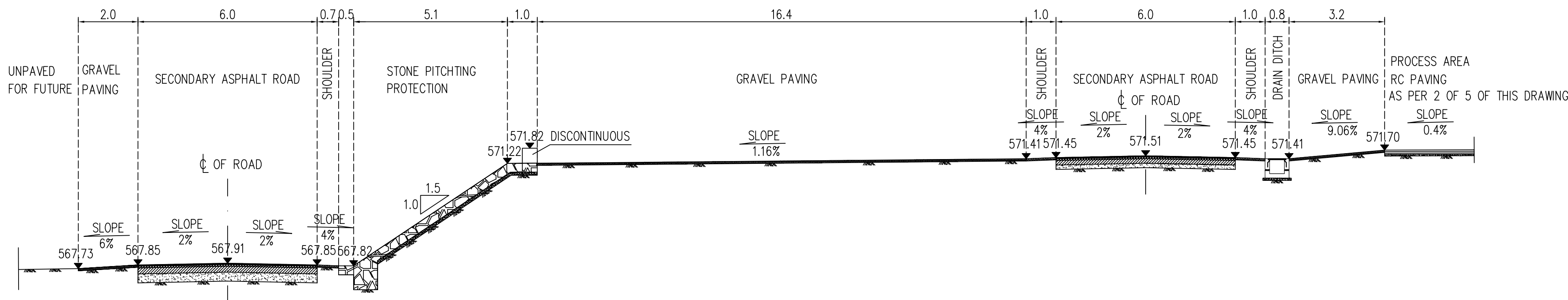
CLIENT: OIL&GAS DEVELOPMENT COMPANY LTD. OGDCL HOUSE TOWER B, FIRST FLOOR, PLAZA, BLUE AREA, JINNAH AVENUE ISLAMABAD PAKISTAN FAX: +92 301 3633245-46 & 3421071-54 FAX: +92 301 3453324-5 & 3451016 E-Mail: correspondence@oilandgasdevelopment.com Website: www.oilandgasdevelopment.com	
CONSULTANT: Zishan Engineers (Pvt.) Ltd. An ISO 9001:2008 certified company 4/F Block B, PECHS, Karama Road Tel: +92 301 3453245-46 & 3421071-54 Fax: +92 301 3453324-5 & 3451016 E-Mail: correspondence@zishanengineers.com Website: www.zishanengineers.com	
CONTRACTOR: HONG KONG HUIHUA GLOBAL TECHNOLOGY LIMITED	PROJECT NO. NASHPA 1247
PROJECT TITLE: NASHPA GAS PROCESSING AND LPG RECOVERY PLANT PROC-FC-CB/NASHPA/PROJ-1247/2015	DRAWING NO. NGP-000-SCW-15.01-2003-23
DRAWING TITLE: ROADS & PAVEMENT LAYOUT	REV. SCALE SHEET 01 1:500 2 OF 2

PROPOSED AREA FOR FRONT END COMPRESSION



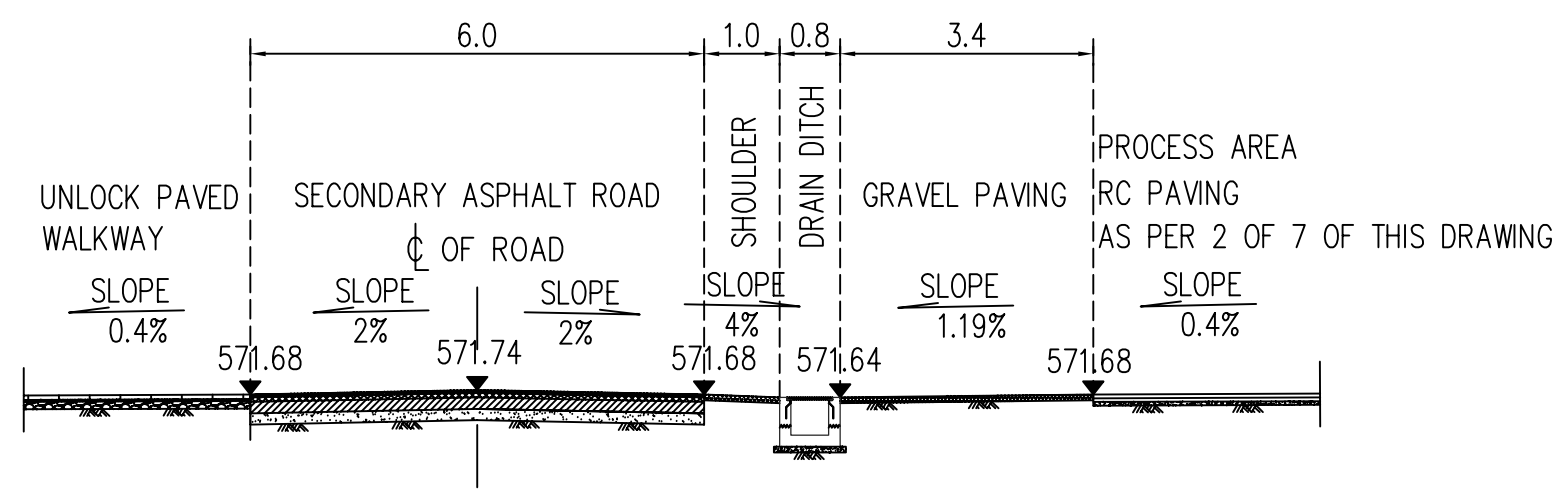
DETAIL DRAWING FOR SECTION 1-1

1:100



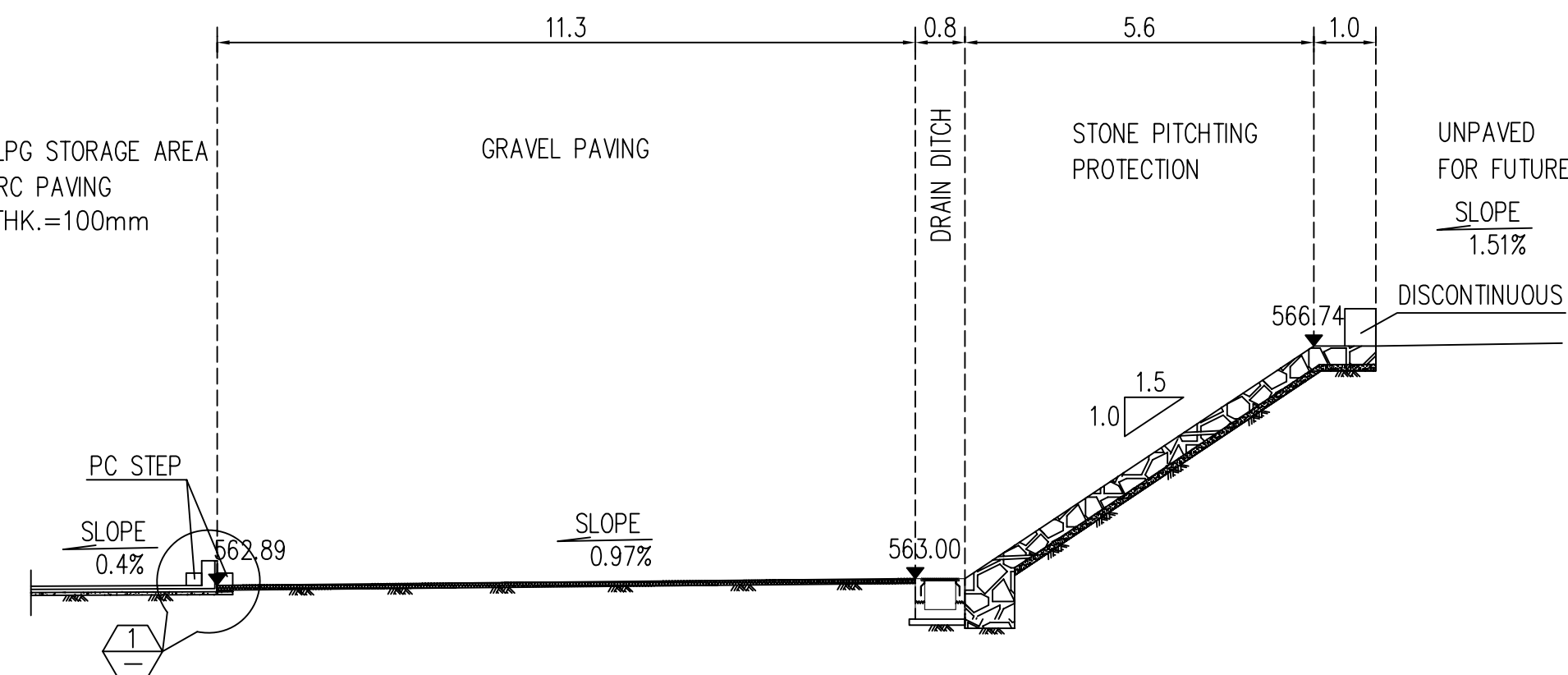
DETAIL DRAWING FOR SECTION 2-2

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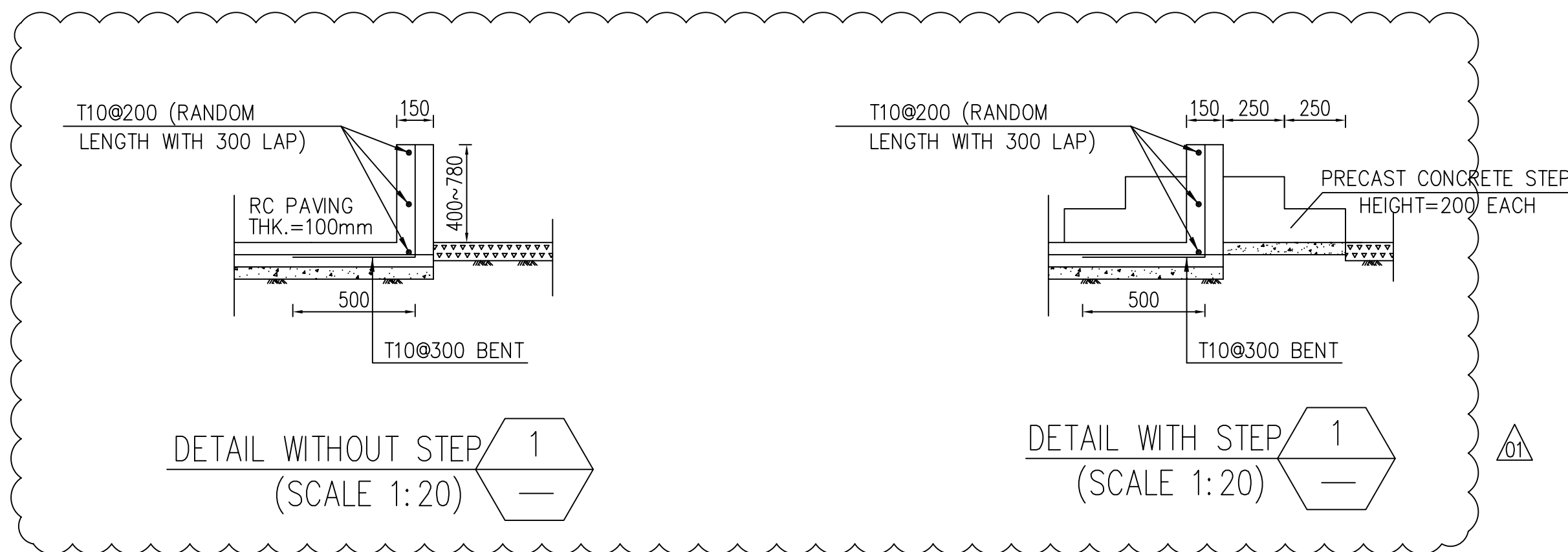
DETAIL DRAWING FOR SECTION 3-3

1:100



DETAIL DRAWING FOR SECTION 4-4

1:100



DETAIL WITHOUT STEP
(SCALE 1:20)

DETAIL WITH STEP
(SCALE 1:20)

GENERAL NOTES

1. ALL DIMENSIONS, AND ELEVATIONS FOR SECTIONS ARE IN METERS, DIMENSIONS FOR DETAILS ARE IN MILLIMETERS.
2. THE STRUCTURES OF ROADS, PAVEMENTS, DRAIN TRENCH AND STONE PITCHING PROTECTION ARE SCHEMATIC ONLY AND SHOULD BE CONSTRUCTED ACCORDING TO THE LATEST VERSION OF DRAWINGS FOR EACH PART.
3. SECTIONS FOR OTHER AREA COULD REFER TO RELATED SECTION IN THIS DRAWING.
4. MINIMUM CBR FOR SUB-GRADE SHALL BE 10, MINIMUM CBR FOR SUB-BASE COURSE SHALL BE 30, MINIMUM CBR FOR BASE COURSE SHALL BE 60. THICKNESSES OF ROAD STRUCTURE LAYERS WILL BE AS PER STANDARD DRAWING OF ROAD SECTIONS.

LEGEND

	PRIMARY ASPHALT ROAD		SECONDARY ASPHALT ROAD
	CONCRETE PAVING THK.=100mm		CONCRETE PAVING HEAVY DUTY THK.=150mm
	CONCRETE PAVING LPG GANTRY AREA THK.=200mm		STONE PITCHING PROTECTION
	GRAVEL PAVING THK.=75mm		UNLOCK PAVED WALKWAY
	DRAIN DITCH		571.70 FINISH PAVING LEVEL

REFERENCE DOCUMENTS

TITLE	DOC No.
GENERAL PLOT PLAN	NGP-000-GEN-15.01-0001-00
SIT GRADING AND LEVELING PLAN	NGP-000-SCW-15.01-2005-23
GRADING AND VERTICAL PLAN	NGP-000-SCW-15.01-2006-23
ROADS & PAVEMENT LAYOUT	NGP-000-SCW-15.01-2003-23
DETAIL DRAWING OF STORM WATER DRAIN DITCH	NGP-000-SCW-15.01-2010-23
STONE PITCHING PROTECTION LAYOUT	NGP-000-SCW-15.01-2007-23
STANDARD DRAWING OF ROAD SECTIONS	NGP-000-SCW-15.01-2001-23
DETAIL DRAWING OF STORM WATER DRAIN DITCH	NGP-000-SCW-15.01-2010-23

REV.	DESCRIPTION	PRPD	CHKD	REVD	APPD	DATE
01	Approved for Construction	XIAO.	YANG.	ZHANG.	QIU.	17/08/2016
00	Approved for Construction	XIAO.	YANG.	ZHANG.	QIU.	08/07/2016
C1	Issued for Approval	XIAO.	YANG.	ZHANG.	QIU.	08/06/2016
C	Issued for Approval	XIAO.	YANG.	ZHANG.	QIU.	20/05/2016
B	Issued for Review	XIAO.	YANG.	ZHANG.	QIU.	28/04/2016
A	Internal Discipline Check	XIAO.	YANG.	ZHANG.	QIU.	20/04/2016

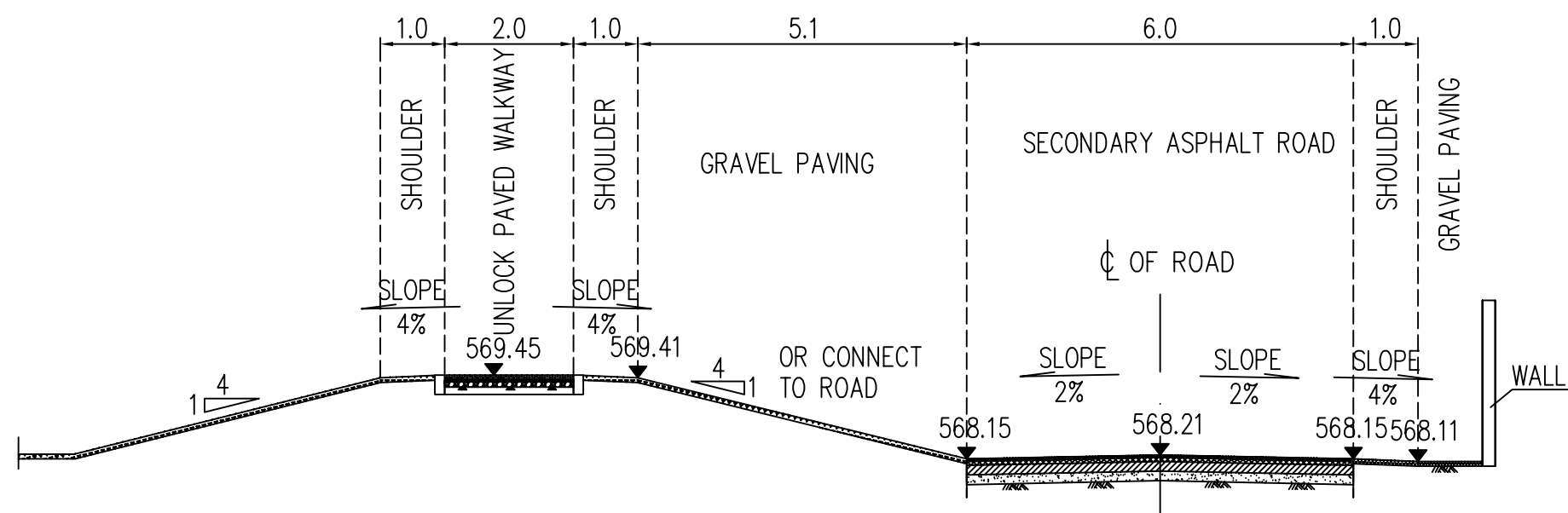
CLIENT: **OIL&GAS DEVELOPMENT COMPANY LTD.**
OGDCL HOUSE TOWER-B, FIRST FLOOR P-6/66, BLUE AREA, JINNAH AVENUE ISLAMABAD PAKISTAN
FAX: +92 051 2823333, PHONE: +92 051 9209859

CONSULTANT: **Zishan Engineers (Pvt.) Ltd.**
An ISO 9001-2008 certified company
47/F Block 6, FECHS, Karachi-Pakistan
Tel: (92-91) 34393045-48, & 34310151-54, Fax: (92-91) 34533430 & 34510156
E-Mail: contact@zishanengineers.com Website: www.zishanengineers.com

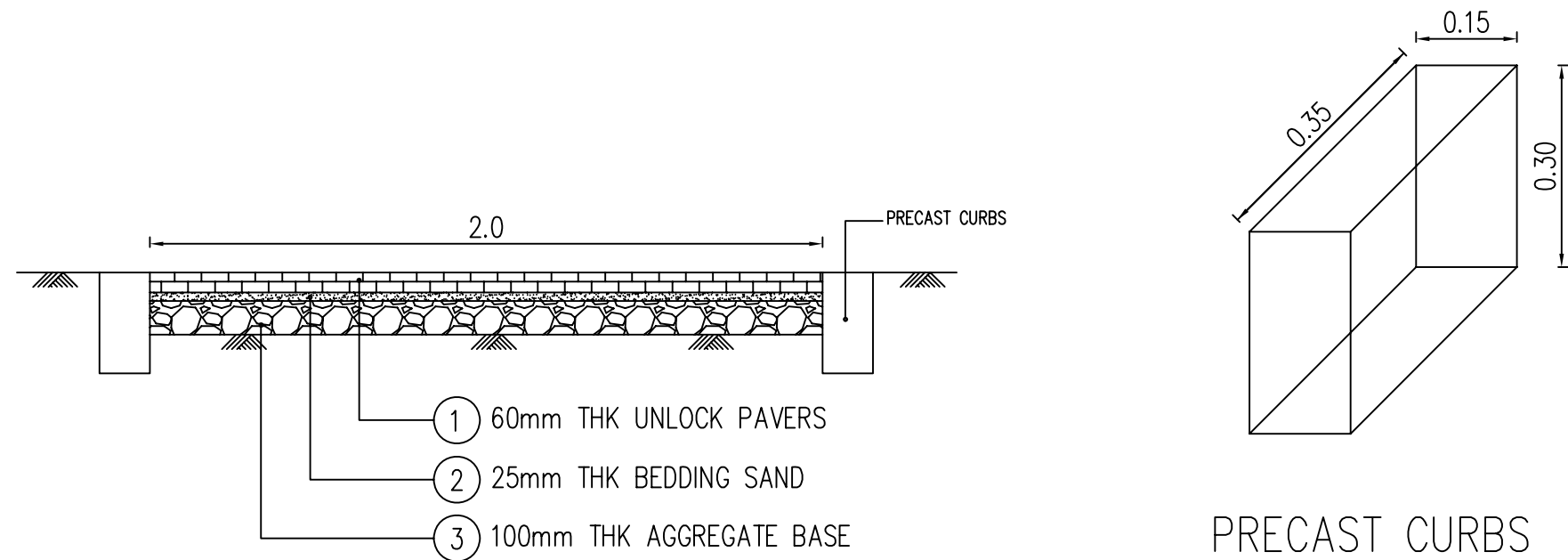
CONTRACTOR: **HONG KONG HUIHUA GLOBAL TECHNOLOGY LIMITED**
PROJECT NO. NASHPA 1247

PROJECT TITLE: NASHPA GAS PROCESSING AND LPG RECOVERY PLANT PROC-FC-CB/NASHPA/PROJ-1247/2015
DRAWING NO. NGP-000-SCW-15.01-2003-23

DRAWING TITLE: **ROADS & PAVEMENT LAYOUT**
REV. SCALE SHEET
01 1:100 4 OF 7

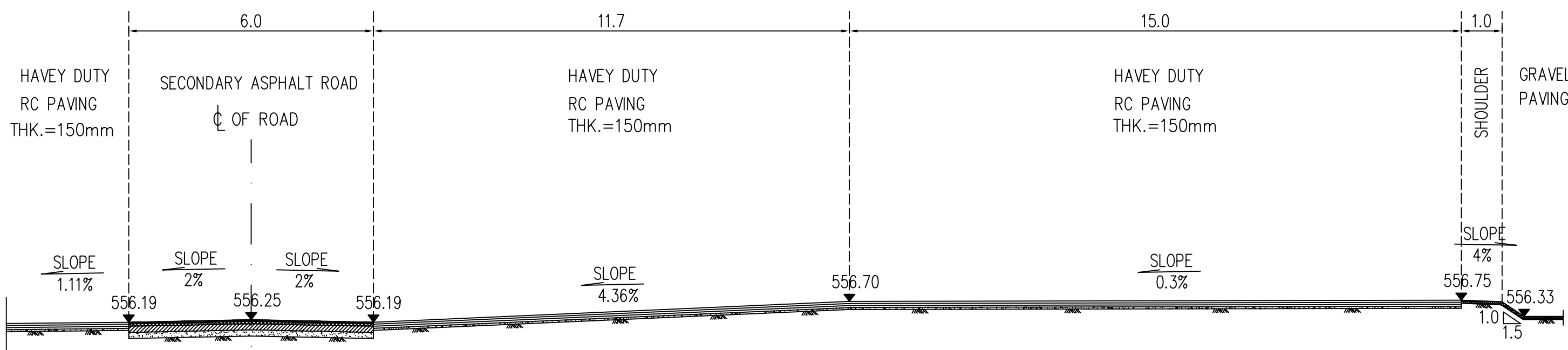


DETAIL DRAWING FOR SECTION 5-5
1:100

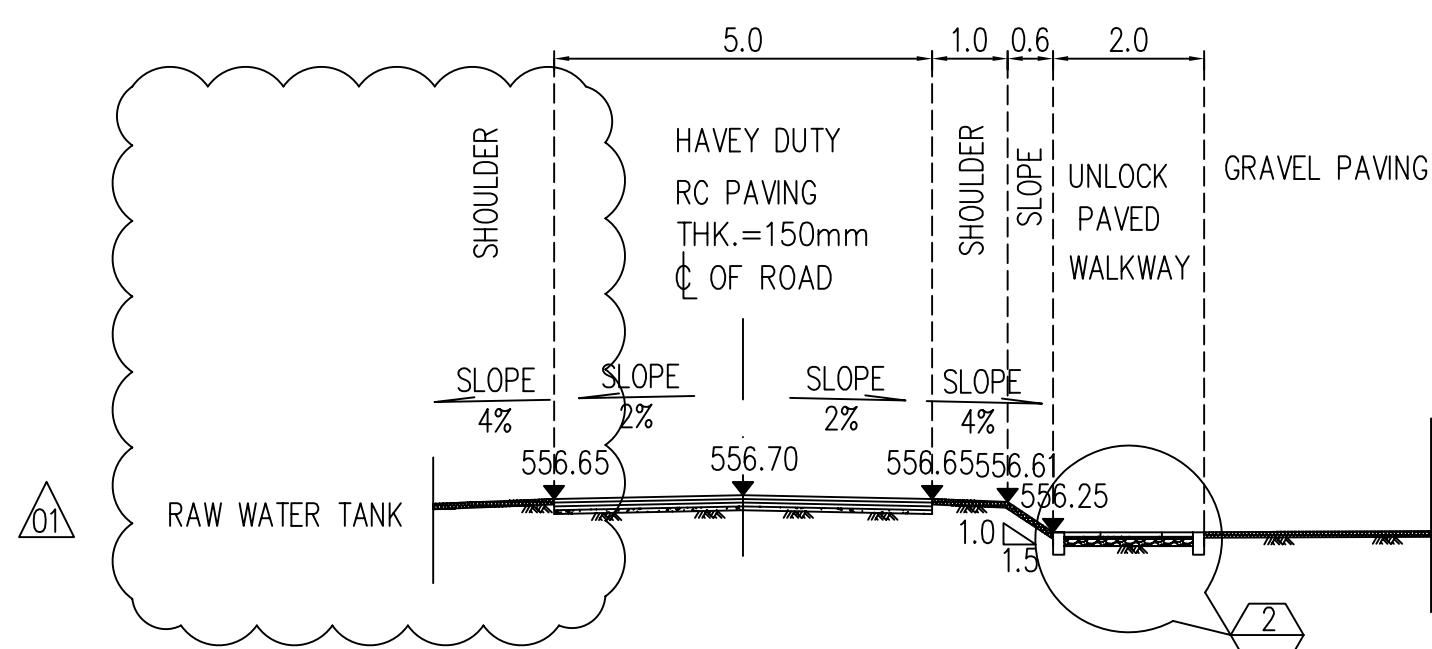


DETAIL SECTION FOR UNLOCK PAVING
(SCALE 1:20)

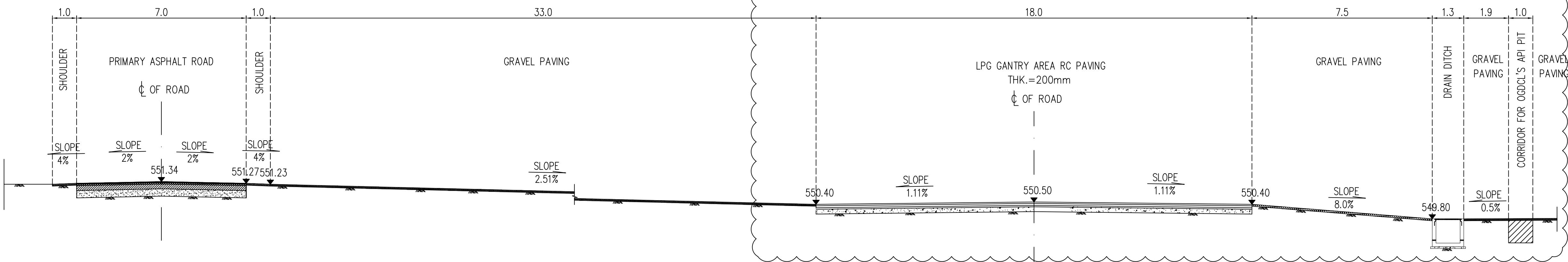
PRECAST CURBS
(SCALE 1:10)



DETAIL DRAWING FOR SECTION 6-6
1:100



DETAIL DRAWING FOR SECTION 7-7
1:100



DETAIL DRAWING FOR SECTION 8-8
1:100

GENERAL NOTES

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2. THE STRUCTURES OF ROADS, PAVEMENTS, DRAIN TRENCH AND STONE PITCHING PROTECTION ARE SCHEMATIC ONLY AND SHOULD BE CONSTRUCTED ACCORDING TO THE LATEST VERSION OF DRAWINGS FOR EACH PART.
3. SECTIONS FOR OTHER AREA COULD REFER TO RELATED SECTION IN THIS DRAWING.
4. THE PRECAST CURBS WILL BE OF CONCRETE TYPE 21N/mm² AND SHOULD BE FINISHED SMOOTH AND TURN TO LINE.
5. MINIMUM CBR FOR SUB-GRADE SHALL BE 10, MINIMUM CBR FOR SUB-BASE COURSE SHALL BE 30, MINIMUM CBR FOR BASE COURSE SHALL BE 60. THICKNESSES OF ROAD STRUCTURE LAYERS WILL BE AS PER STANDARD DRAWING OF ROAD SECTIONS.

LEGEND

	PRIMARY ASPHALT ROAD		SECONDARY ASPHALT ROAD
	CONCRETE PAVING THK.=100mm		CONCRETE PAVING HEAVY DUTY THK.=150mm
	CONCRETE PAVING LPG GANTRY AREA THK.=200mm		STONE PITCHING PROTECTION
	GRAVEL PAVING THK.=75mm		UNLOCK PAVED WALKWAY
	DRAIN DITCH		571.70 FINISH PAVING LEVEL

REFERENCE DOCUMENTS

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DETAIL DRAWING OF STORM WATER DRAIN DITCH	NGP-000-SCW-15.01-2010-23
STONE PITCHING PROTECTION LAYOUT	NGP-000-SCW-15.01-2007-23
STANDARD DRAWING OF ROAD SECTIONS	NGP-000-SCW-15.01-2001-23
DETAIL DRAWING OF STORM WATER DRAIN DITCH	NGP-000-SCW-15.01-2010-23

		Xiao Jianhua	Yang Guohui	Zhang Zhi Xing	Qiu Rui Shi	
01	Approved for Construction	XIAO.	YANG.	ZHANG.	QIU.	17/08/2016
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REV.	DESCRIPTION	PRPD	CHKD	REVD	APPD	DATE

CLIENT: **OIL&GAS DEVELOPMENT COMPANY LTD.**
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PROJECT NO. NASHPA 1247

PROJECT TITLE: NASHPA GAS PROCESSING AND LPG RECOVERY PLANT PROC-FC-CB/NASHPA/PROJ-1247/2015
DRAWING NO. NGP-000-SCW-15.01-2003-23

DRAWING TITLE: ROADS & PAVEMENT LAYOUT
REV. SCALE SHEET 01 1:100 5 OF 7