

- ### 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 WELLMAN 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/PAVEMENT 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:
 PRIMARY ASPHALT ROAD : 1915 m² (WIDTH=7m)
 SECONDARY ASPHALT ROAD: 3155 m² (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
	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.
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

REFERENCE DOCUMENTS FOR CULVERTS/SLEEVES

CULVERTS/SLEEVES	TITLE	DOC No.
CULVERTS	DETAIL DRAWING OF CULVERTS FOR OGDL 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	TELECOM EQUIPMENT AND CABLE LAYOUT AT NASHPA PLANT	NGP-000-TEL-15.01-0004-00
	INSTRUMENT SLEEVE	INSTRUMENT CABLE ROUTING
ELECTRICAL SLEEVE	LIGHTING LAYOUT FOR STREET	NGP-000-ELE-15.01-0003-00
	EARTHING AND LIGHTNING PROTECTION LAYOUT	NGP-000-ELE-15.01-0004-00
FIRE WATER SLEEVE	CABLE ROUTING LAYOUT FOR GENERAL AREA	NGP-000-ELE-15.01-0002-24
	PIPING LAYOUT FOR FIRE WATER SYSTEM (UNIT-35)	NGP-007-FIF-15.01-0004-24
PRODUCED WATER SLEEVE	SINGLE LINE SCHEME FOR PRODUCED WATER SYSTEM (UNIT-38)	NGP-008-PIP-15.01-0005-24
	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

CLIENT: **OIL & GAS DEVELOPMENT COMPANY LTD.**
 OGDL HOUSE TOWER 8, FIRST FLOOR, BLUE AREA, JINNAH AVENUE ISLAMABAD PAKISTAN
 FAX: 92-011-3423345-46 & 34210751-54 Fax: 92-011-3423330 & 3421076

CONSULTANT: **Zishan Engineers (Pvt.) Ltd.**
 An ISO 9001:2008 certified company
 4/F, Block 8, PESCO, Karachi-Pakistan
 Tel: 92-011-3423345-46 & 34210751-54 Fax: 92-011-3423330 & 3421076
 E-Mail: contact@zishanengineers.com Website: www.zishanengineers.com

CONTRACTOR: **HONG KONG HUIHUA GLOBAL TECHNOLOGY LIMITED**

PROJECT NO.: NASHPA 1247

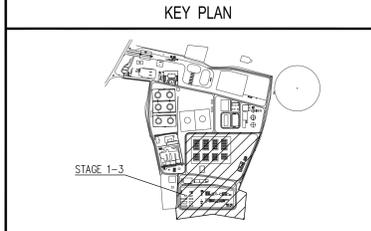
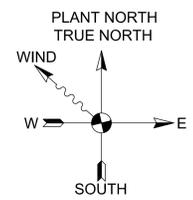
DRAWING NO.: NGP-000-SCW-15.01-2003-21

DRAWING TITLE: **ROADS & PAVEMENT LAYOUT**

REV. SCALE SHEET: 01 1:1000 1 OF 2

Drawing Size: ISO A0

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	INSTRUMENT CABLE ROUTING	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			



GENERAL NOTES

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- REFERENCE POINT IS BS-01. N=3683280.201m; E=714621.147m; ELEVATION=565.447m.
- INTERNAL CURVE RADIUS OF ROADS WILL BE 12.0m, OTHERWISE INDICATED.
- 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.
- 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.
- BEFORE CONSTRUCTION OF ROADS AND PAVEMENTS, CULVERTS ARE SUGGESTED TO BE LOCATED FIRST ACCORDING TO RELEVANT DRAWING.
- 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.
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- 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 WCS1984

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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	APP'D	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			31/03/2016
A	Internal Discipline Check	XIAO, YANG	ZHANG, QIU			16/03/2016

CLIENT: **OIL & GAS DEVELOPMENT COMPANY LTD.**
OGDCL HOUSE TOWER & FIRST FLOOR PLANT, BLUE AREA, JINNAH AVENUE ISLAMABAD PAKISTAN
FAX: 92-011-3429345-48 & 34210751-54 Fax: 92-011-3423330 & 34210166
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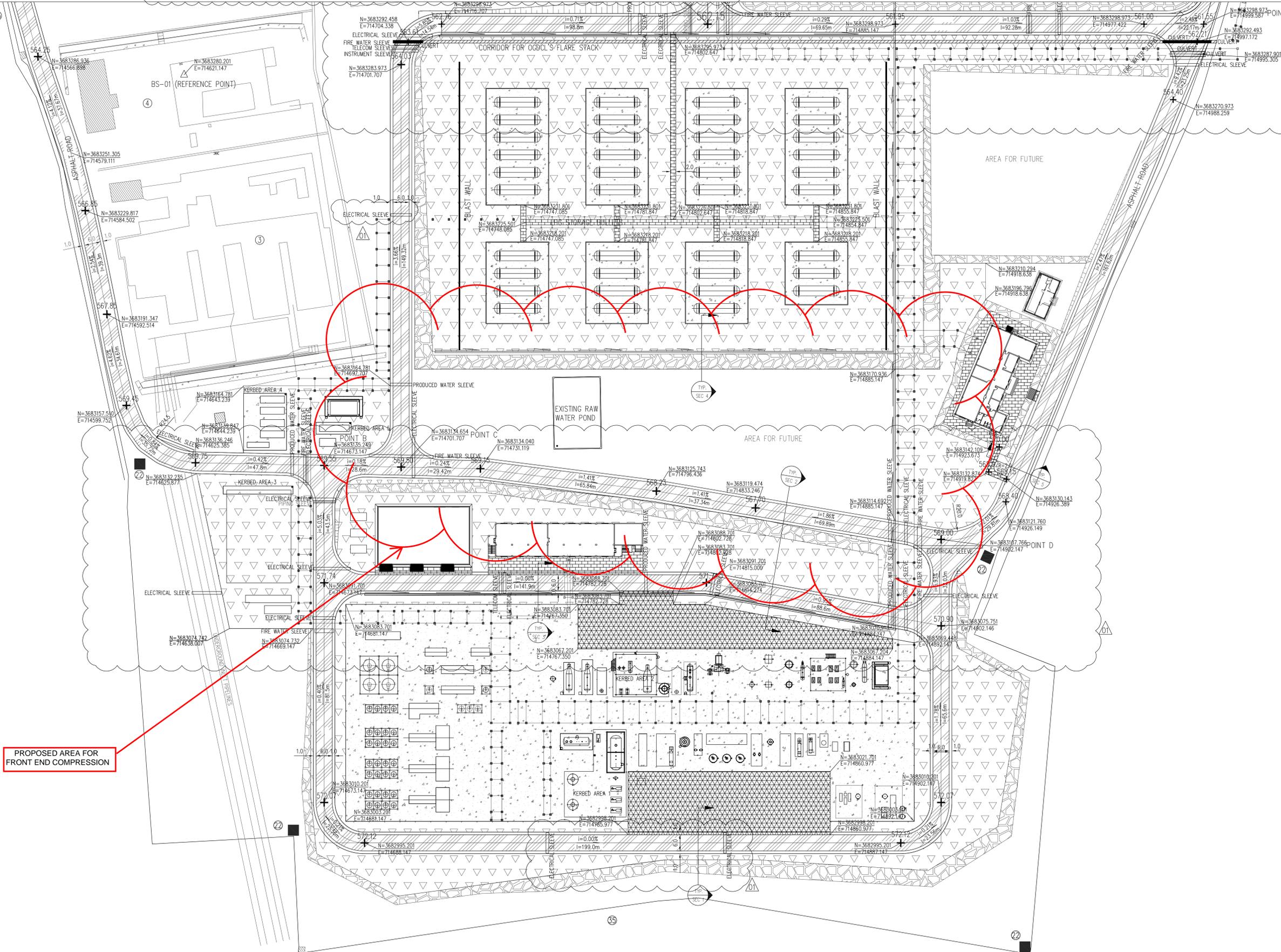
CONSULTANT: **Zishan Engineers (Pvt.) Ltd.**
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4/F, 6th & 8th, 15/15th, Karama Park Road
Tel: 92-011-3429345-48 & 34210751-54 Fax: 92-011-3423330 & 34210166
E-Mail: zishan@zishanengineers.com Website: www.zishanengineers.com

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

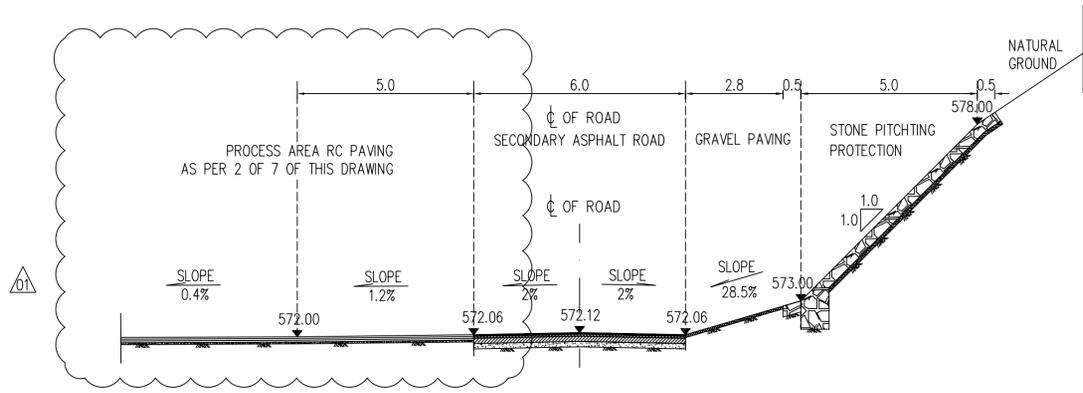
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DRAWING TITLE: ROADS & PAVEMENT LAYOUT REV. SCALE SHEET 01 1:500 2 OF 2

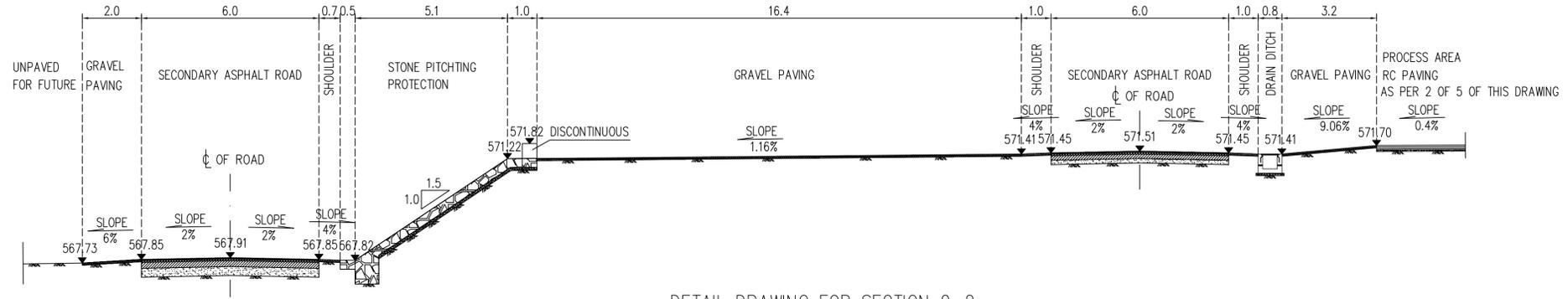
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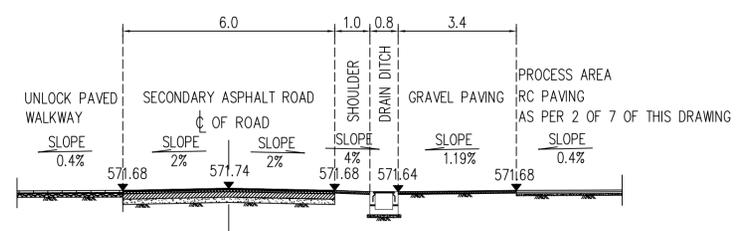
PROPOSED AREA FOR FRONT END COMPRESSION



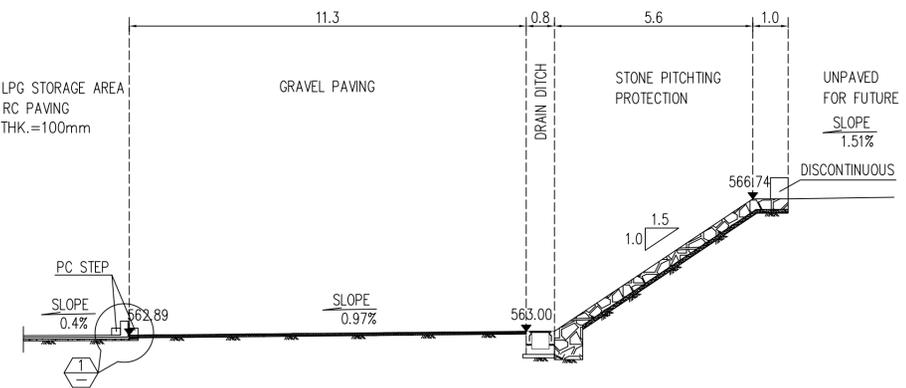
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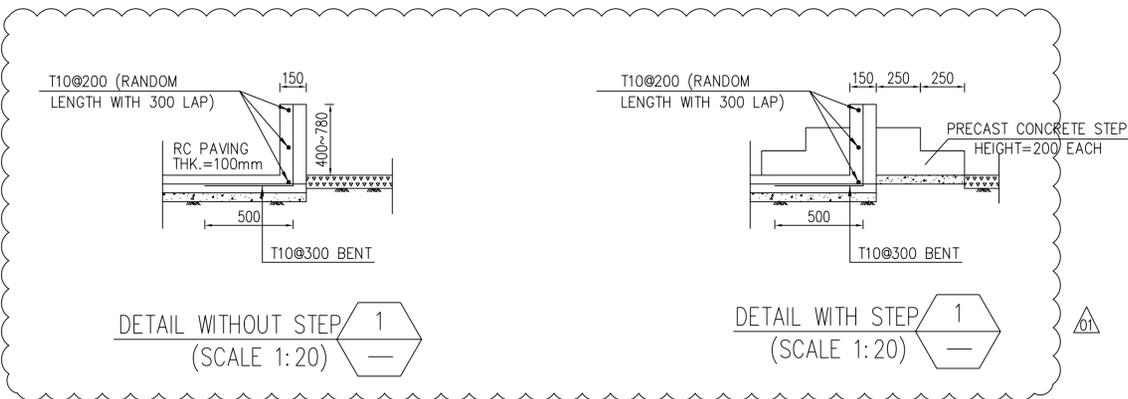
DETAIL DRAWING FOR SECTION 2-2
1:100



DETAIL DRAWING FOR SECTION 3-3
1:100



DETAIL DRAWING FOR SECTION 4-4
1:100



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

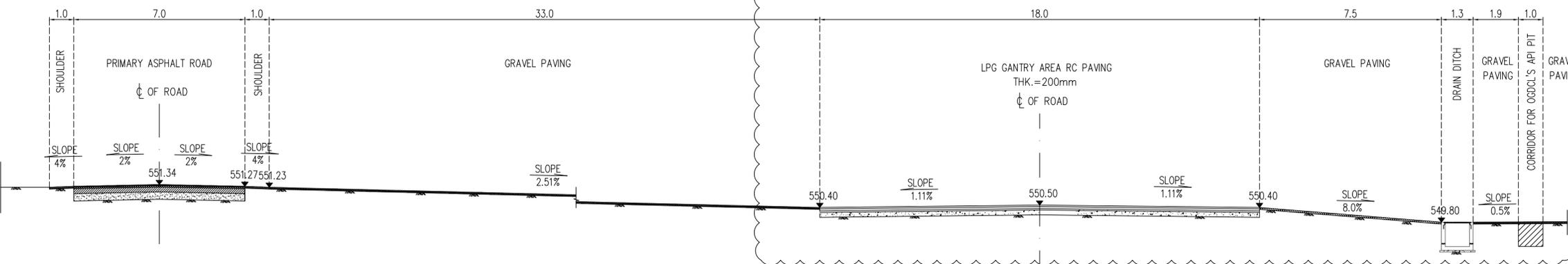
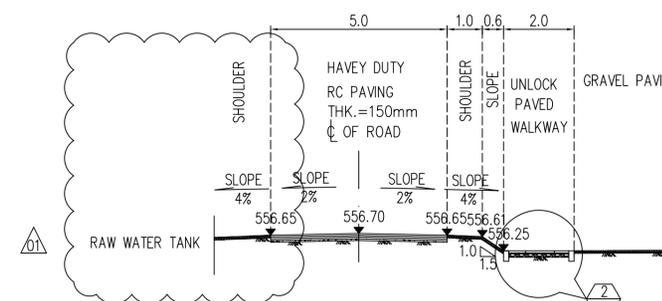
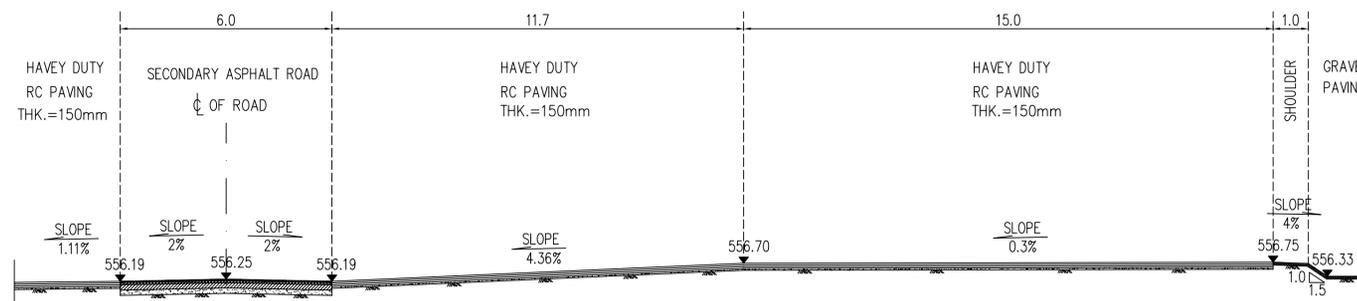
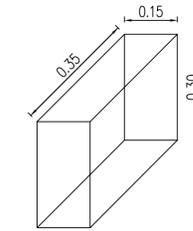
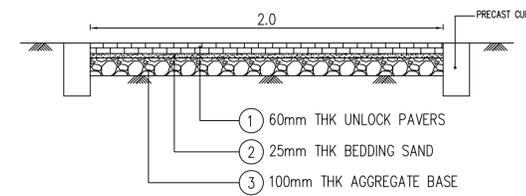
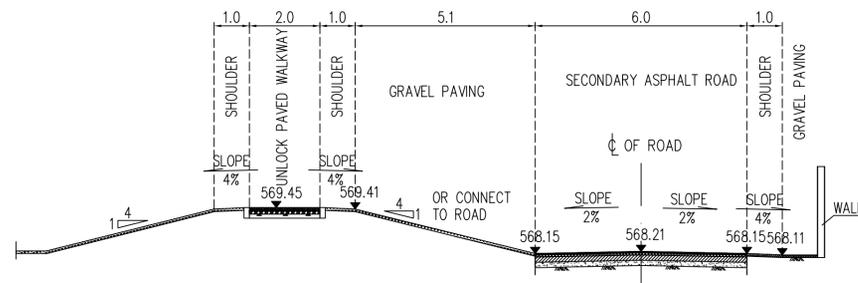
CLIENT: **OIL&GAS DEVELOPMENT COMPANY LTD.**
 OGDCL HOUSE TOWER-B, FIRST FLOOR F8/G6, BLUE AREA, JINNAH AVENUE ISLAMABAD PAKISTAN
 FAX: +92 051 2622933, PHONE: +92 051 9209859

CONSULTANT: **Zishan Engineers (Pvt.) Ltd.**
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 47/F Block G, FECHS, Karachi-Pakistan
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 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



GENERAL NOTES

- ALL DIMENSIONS, AND ELEVATIONS FOR SECTIONS ARE IN METERS, DIMENSIONS FOR DETAILS ARE IN MILLIMETERS.
- 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.
- SECTIONS FOR OTHER AREA COULD REFER TO RELATED SECTION IN THIS DRAWING.
- THE PRECAST CURBS WILL BE OF CONCRETE TYPE 21N/mm² AND SHOULD BE FINISHED SMOOTH AND TURN TO LINE.
- 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.
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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
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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