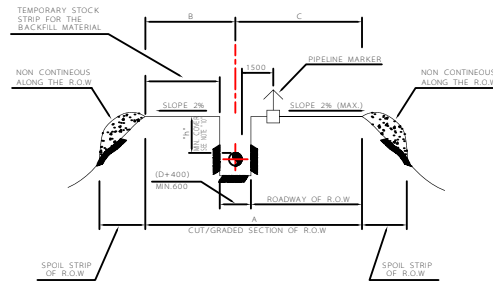
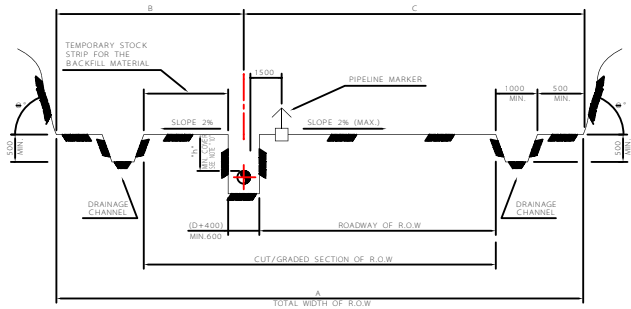


D= DIAMETER OF PIPE

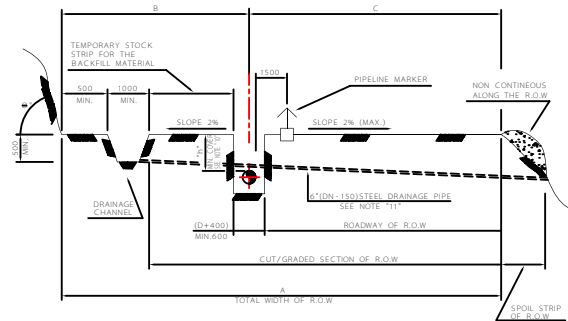
FLAT AREA "A"



HILL-TOP TERRAIN "B"



CANYON TERRAIN "C"



HILL SIDE TERRAIN "D"

TABLE 1
DIMENSION OF NEW R.O.W CUT & GRADED SECTION

PIPE SIZE		FLAT AREA			HILL TOP			CANYON			HILL SIDE		
NPS	DN	A	B	C	A	B	C	A	B	C	A	B	C
12"	300	16000	4000	12000	11000	3000	8000	11000	3000	8000	11000	3000	8000
14"	350	18000	5000	13000	11000	3000	8000	11000	3000	8000	11000	3000	8000
18"	450	20000	6000	14000	12000	3000	9000	12000	3000	9000	12000	3000	9000
24"	600	23000	7000	16000	13000	3500	11000	13000	3500	11000	13000	3500	11000
36"	900	25000	7000	18000	14000	4000	12000	14000	4000	12000	14000	4000	12000
48"	1200	28000	8000	20000	16000	4000	14000	16000	4000	14000	16000	4000	14000

NOTES

- 1- ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE STATED.
- 2- NO EMBANKMENT AND/OR FILLING ACTIVITIES SHALL BE CARRIED OUT IN CUT/GRADED SECTION OF R.O.W. SPOIL MATERIAL WHATSOEVER SHALL NOT BE LEFT ON THIS STRIP. (AFTER COMPLETION OF PIPELINE CONSTRUCTION)
- 3- WHOLE WIDTH OF CUT/GRADED SECTION OF R.O.W. AS SHOWN ON THIS DRAWING SHALL BE THOROUGHLY CUT AND SMOOTHLY GRADED.
- 4- THE CONTRACTORS SHALL ADOPT APPROPRIATE SLOPE FOR DRAINAGE CHANNEL WHEREVER SHOWN ON THIS DRAWING AND EXTEND THIS CHANNEL TO A SUITABLE PLACE WHERE RAINFALL WATER OR OTHERS ARE BEING DIVERTED FROM THE R.O.W. IN SUCH A WAY TO AVOID EROSION OF THE R.O.W.
- 5- ANGLE α SHALL NOT BE GREATER THAN THE NATURAL ANGLE OF REPOSE FOR THE MATERIAL IN WHICH THE CUTTING IS MADE FOR SOIL $\alpha=42^\circ$; FOR ROCK $\alpha=75^\circ$.
- 6- AT LOCATIONS WHERE SURFACE WATER IS NATURALLY DRAINED ACROSS THE R.O.W. AND/OR AT ANY OTHER LOCATION AS DECIDED BY COMPANY'S REPRESENTATIVE IRISH CROSSING SHALL BE BUILT TO PREVENT EROSION OF THE R.O.W.
- 7- DIMENSIONS OF R.O.W. IN JUNGLE & GARDEN IS THE SAME AS HILL TOP AREA, HOWEVER THE R.O.W. LAYOUT IN GARDEN AND FOREST WILL BE THE SAME AS FLAT AREA.
- 8- NO SPOIL MATERIAL WHATSOEVER SHALL BE LEFT ANYWHERE ALONG THE R.O.W. AND THEREFORE SHALL BE REMOVED BY THE CONTRACTOR TO A PLACE WHERE SPOIL STRIPS HAVE BEEN ALLOCATED FOR THIS PURPOSE AS PER THIS DRAWINGS.
- 9- TABLE 1 SHOWS THE MINIMUM STANDARD DIMENSIONS OF R.O.W. AS REFERRED TO FIGURES (A,B,C,D) FOR DIFFERENT SIZES OF PIPELINE AND VARIOUS LOCATIONS.
- 10- MINIMUM "h" FOR NORMAL TERRAIN 900mm.
MINIMUM "h" FOR ROCKY AREA 600mm.
MINIMUM "h" FOR CULTIVATED AREA 1200mm.
- 11- PROPER DRAINAGE TO BE CONSTRUCTED EVERY 50m. ALONG THE R.O.W.
- 12- THIS DRAWING SHALL BE READ IN CONJUNCTION WITH IPS-E-PI-143

NO. 1	DESCRIPTION	DATE
NO. 2		
NO. 3		
IRANIAN PETROLEUM STANDARDS		
NO REVISION PERMITTED UNLESS APPROVED BY STANDARD ORGANIZATION		
PIPELINE RIGHT - OF - WAY		
DATE	DRAWING NO.	SHEET / REV.
	IPS - D - PI - 143	1 / 1

TABLE - 2
DIMENSION OF PARALLEL PIPELINES R.O.W
(FLAT AREA)

PIPE SIZE		A	B	C
NPS	DN	SPOIL SIDE	ROAD WAY	GRADED ACCESS ROAD
12"	300	4000	10000	4000
18"	450	5000	15000	5000
24"	600	7000	18000	6000
36"	900	10500	20000	8000

TABLE - 3
DIMENSION OF PARALLEL PIPELINES R.O.W
(HILL TOP - CANYON - HILL SIDE - GARDEN FOREST)

PIPE SIZE		A	B	C
NPS	DN	SPOIL SIDE	ROAD WAY	GRADED ACCESS ROAD
18"	450	3000	5000	3000
24"	600	3000	6000	3000
30"	750	3500	8000	3500
36"	900	4000	8000	4000
42"	1050	4000	8000	6000

TABLE - 4
DIMENSION OF PARALLEL PIPELINES R.O.W IN WOODEN AREAS

PIPE SIZE		A	B	C
NPS	DN	SPOIL SIDE	ROAD WAY	GRADED ACCESS ROAD
24"	600	3000	9000	3000
30"	750	4000	12500	4000
36"	900	4000	16000	4000

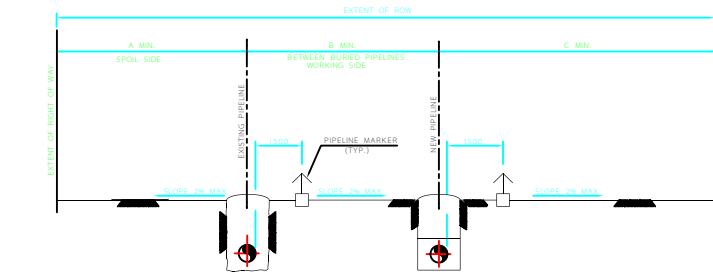
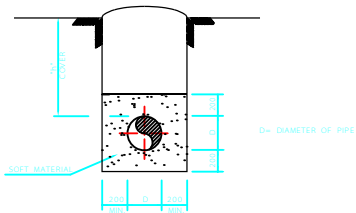


FIG. 1
SECTION THROUGH BURIED PARALLEL PIPELINES
LOOKING IN DIRECTION OF FLOW

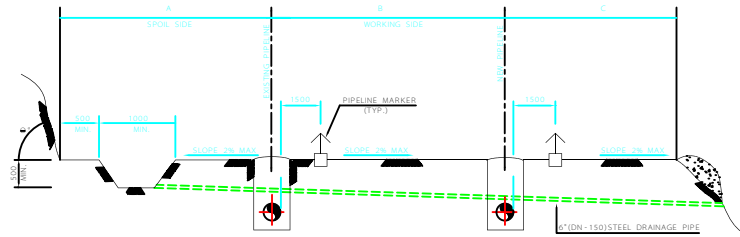


FIG. 2
HILLSIDE CUTTING

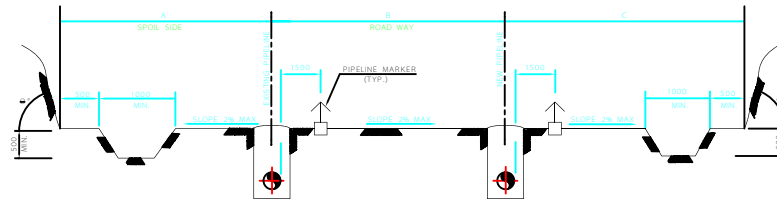


FIG. 3
CANYON TERRAIN

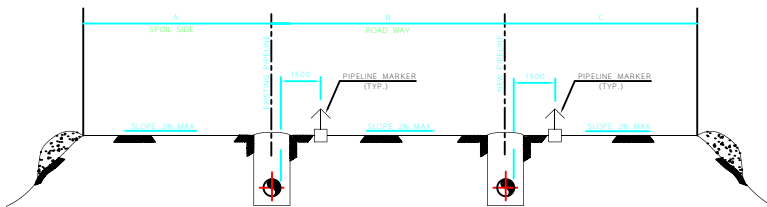


FIG. 4
HILL TOP TERRAIN

NOTES

- FOR GENERAL NOTES SEE SHEET 1.
- BONDING BETWEEN CATHODICALLY PROTECTED PIPELINES SHALL BE CARRIED OUT AS DEFINED ON THE PROJECT DRAWINGS.
- TABLES 2 AND 4 SHOW THE MINIMUM STANDARD DIMENSIONS OF R.O.W AS REFERRED TO FIGURE-1 FOR DIFFERENT SIZES OF PIPELINES AND YARDS LOCATIONS WHEN A NEW PIPELINE IS TO BE LAID PARALLEL TO AN EXISTING PIPELINE IN THE SAME R.O.W.
- TABLE 3 SHOWS THE MINIMUM STANDARD DIMENSIONS OF R.O.W AS REFERRED TO FIGURE-2, 3 AND 4 FOR DIFFERENT SIZES OF PIPELINES AND YARDS LOCATIONS WHEN A NEW PIPELINE IS TO BE LAID PARALLEL TO AN EXISTING PIPELINE IN THE SAME R.O.W.
- WHEN TWO PIPELINES ARE/OR PLANNED TO BE LAID IN THE SAME R.O.W. (IN WOODEN AREA) MINIMUM DIMENSIONS OF R.O.W. SECTIONS SHOULD BE IN ACCORDANCE WITH MEASURES GIVEN IN TABLE 4.
- FOR TRENCH DETAIL AND MIN. COVER HEIGHT OF BURIED PIPELINES SEE DETAIL-1 IN THIS DRAWING.

THIS DWG. SUPERSEDES DWG. No. S4L-6505

NO.	DESCRIPTION	DATE

IRANIAN PETROLEUM STANDARDS

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PIPELINE RIGHT-OF-WAY

DATE	DRAWING NO.	SHEET	REV.
	IPS - D - PI - 143		