



*Maynilad*

**Construction Safety Standards**

# BACKGROUND

- Maynilad enhanced the construction safety standards last year but based on observation it was not fully implemented to all projects.
- It was implemented to all contracts tendered from October 1, 2012 onwards

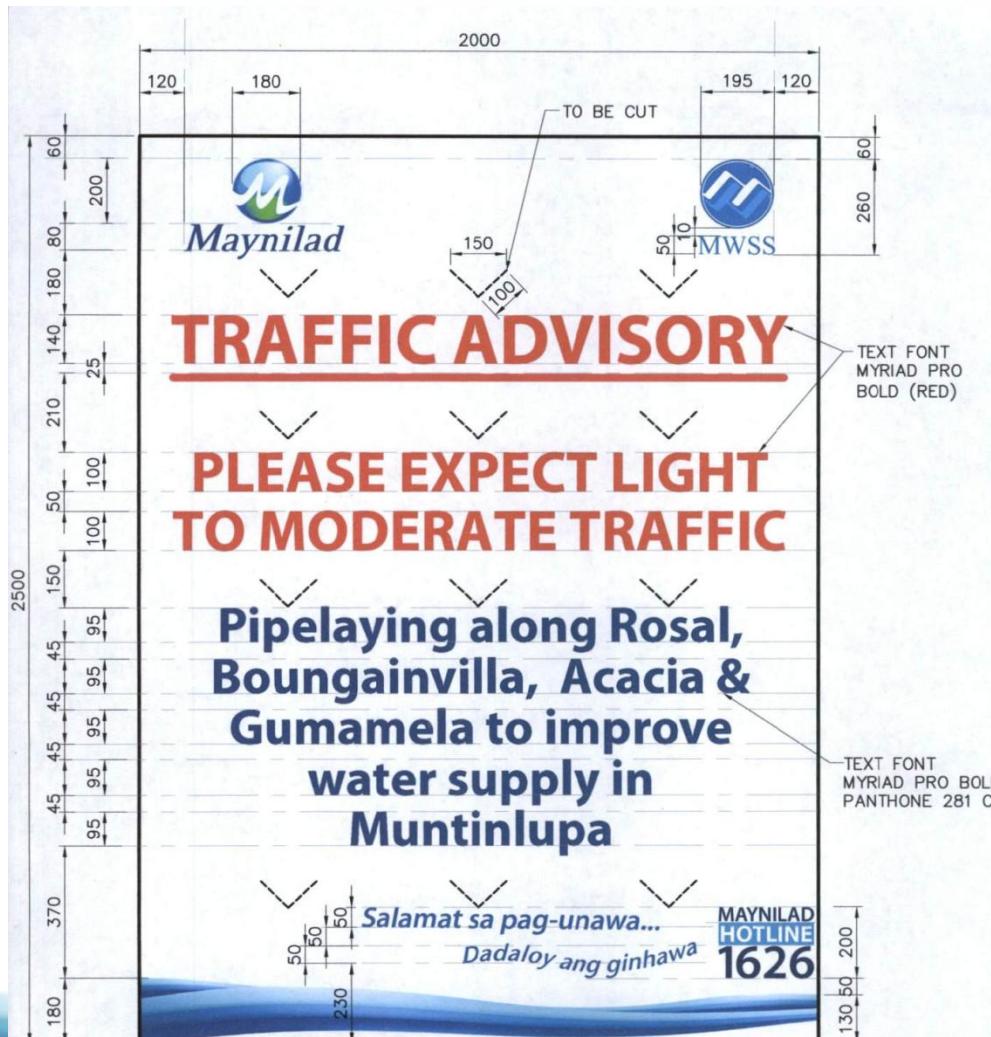
# OBJECTIVES

- To become knowledgeable about Construction Safety Standards

# OUTLINE

- Implementation Date
- Traffic Advisory
- Project ID
- Safety Signage (Special Projects)
- Early Warning Safety Signage
- Bollards
- Board-Up
  - Information Board-Up
  - Safety Board-Up
  - Standard Board-Up
- Schemes
- Warning, Rope & Arrow Lights
- Traffic Cones
- Rubberized Traffic Cone Scheme
- Work Area Overview
- Contractor's Uniform
- Accredited Suppliers/Fabricators

# TRAFFIC ADVISORY

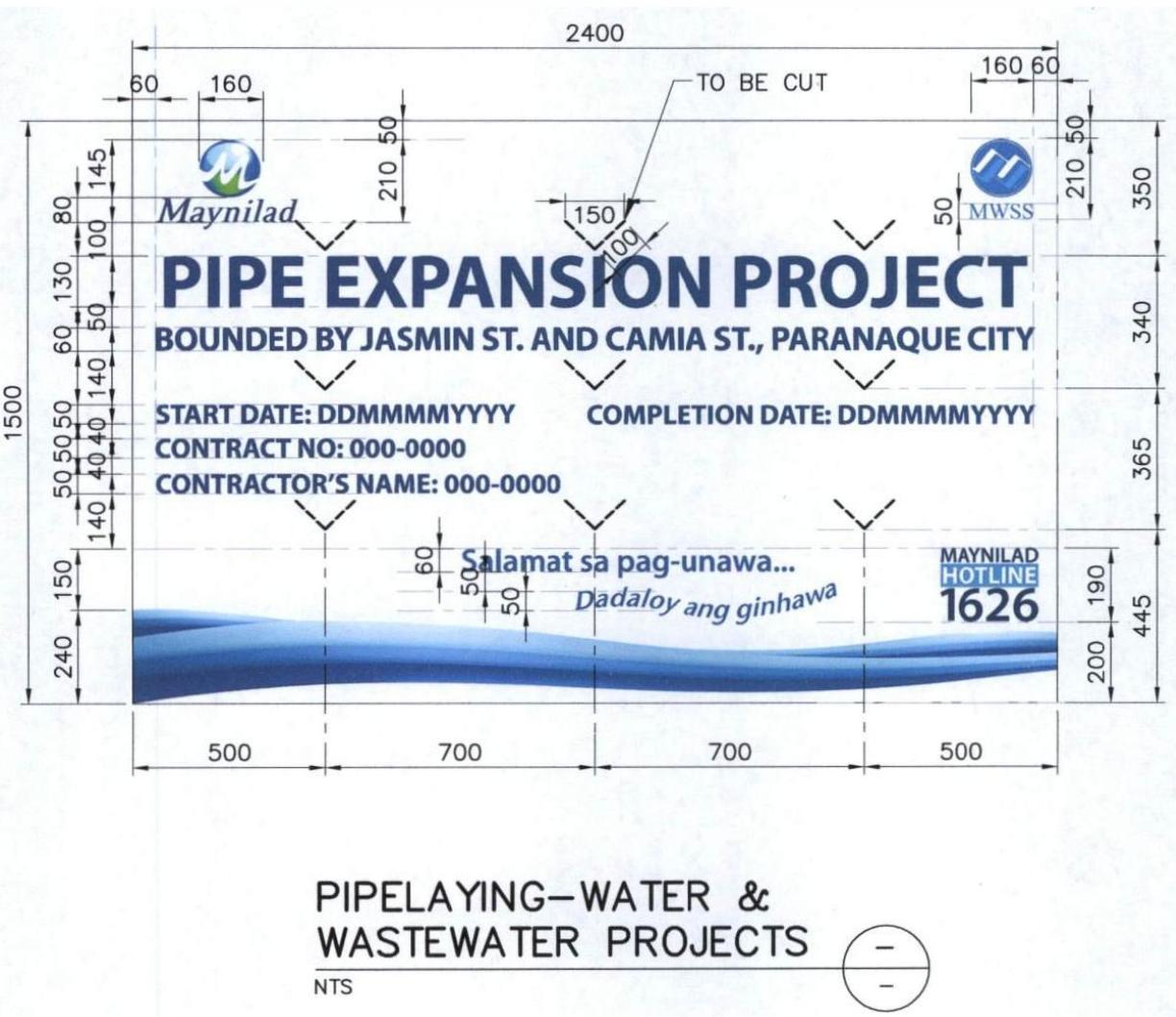


- TO BE INSTALLED/PLACED 50M BEFORE THE PROJ. ID AT THE BEGINNING OF THE PROJECT
- TO BE SUPPLIED BY ACCREDITED SUPPLIERS/FABRICATORS

## NOTES:

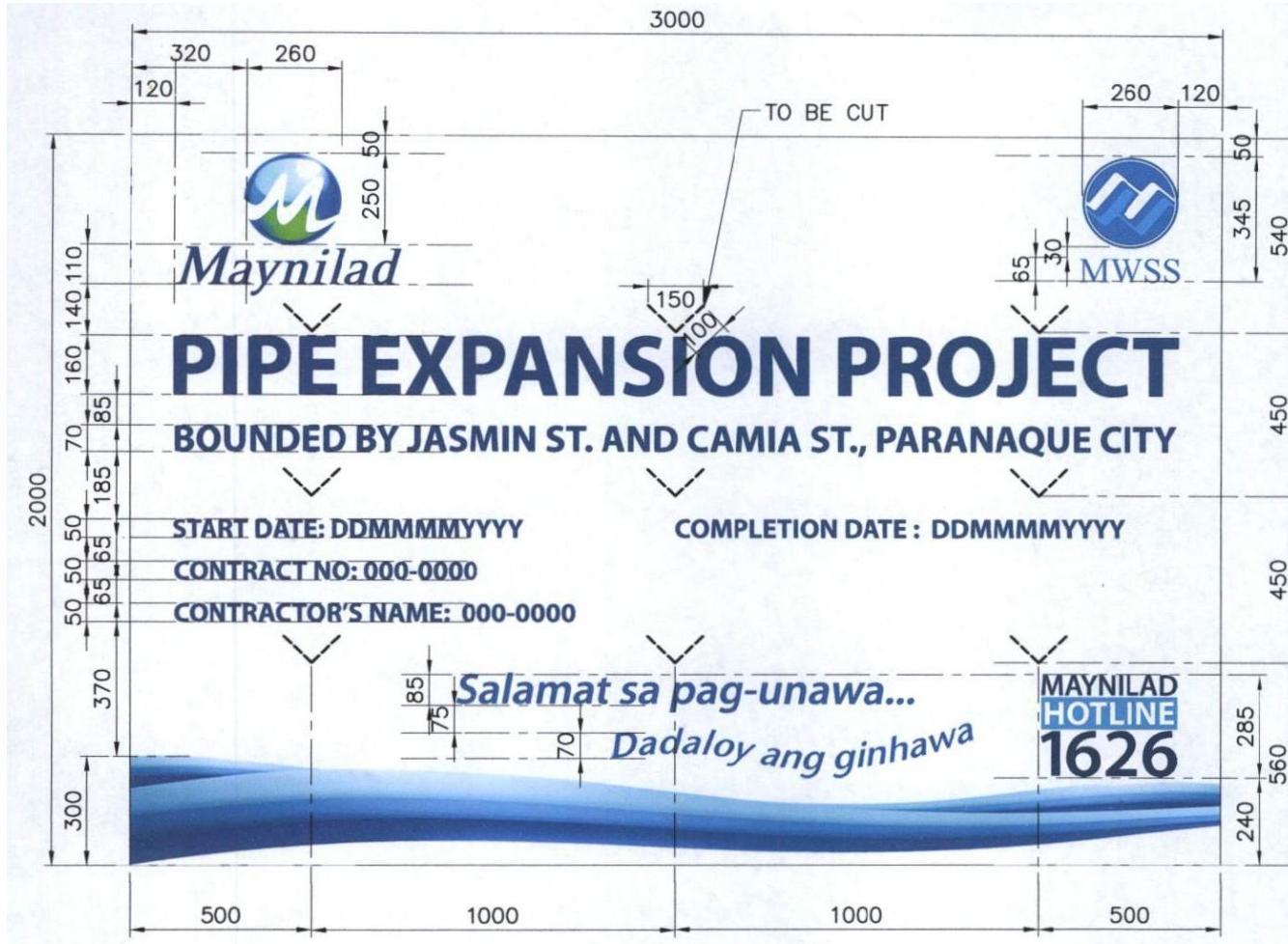
1. ALL DIMENSIONS ARE IN MILLIMETERS, UNLESS OTHERWISE SPECIFIED.
2. SIGNAGE MATERIAL IS TARPAULIN 15 OUNCES PER SQ. YARD (MIN.) & WATER RESISTANT.
3. TARPAULIN SHALL BE MOUNTED IN WOODEN FRAME & TO BE INSTALLED/PLACED 50M BEFORE THE PROJECT ID SIGNAGE AT THE BEGINNING OF THE PROJECT.

# PROJECT ID



- TO BE INSTALLED /PLACED AT THE BEGINNING & END OF THE PROJECT & ALL MAJOR INTERSECTIONS
- TO BE SUPPLIED BY ACCREDITED SUPPLIERS/ FABRICATORS

# PROJECT ID



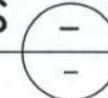
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# PROJECT ID



## SMALL/NON-REGULAR PROJECTS

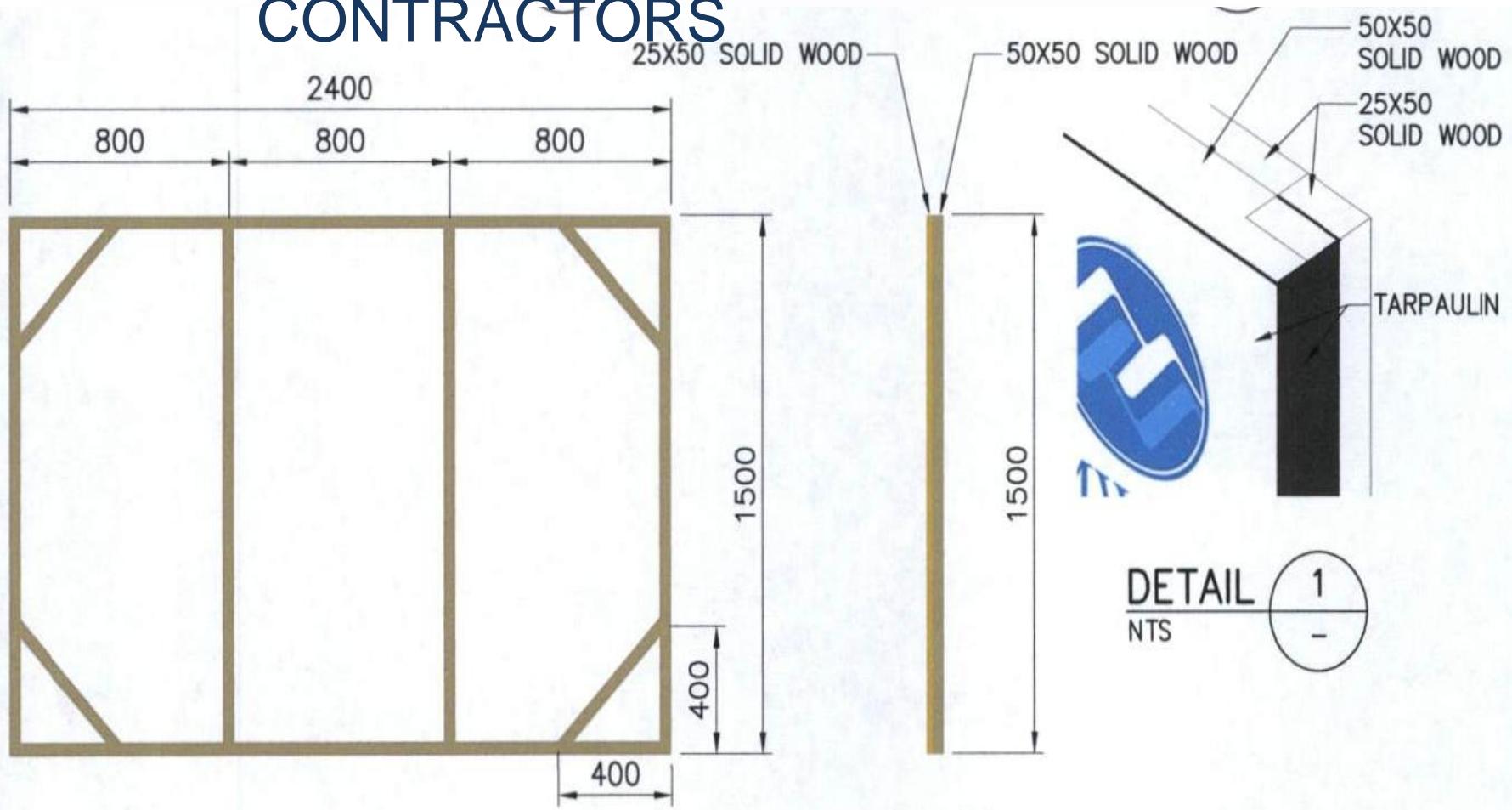
NTS



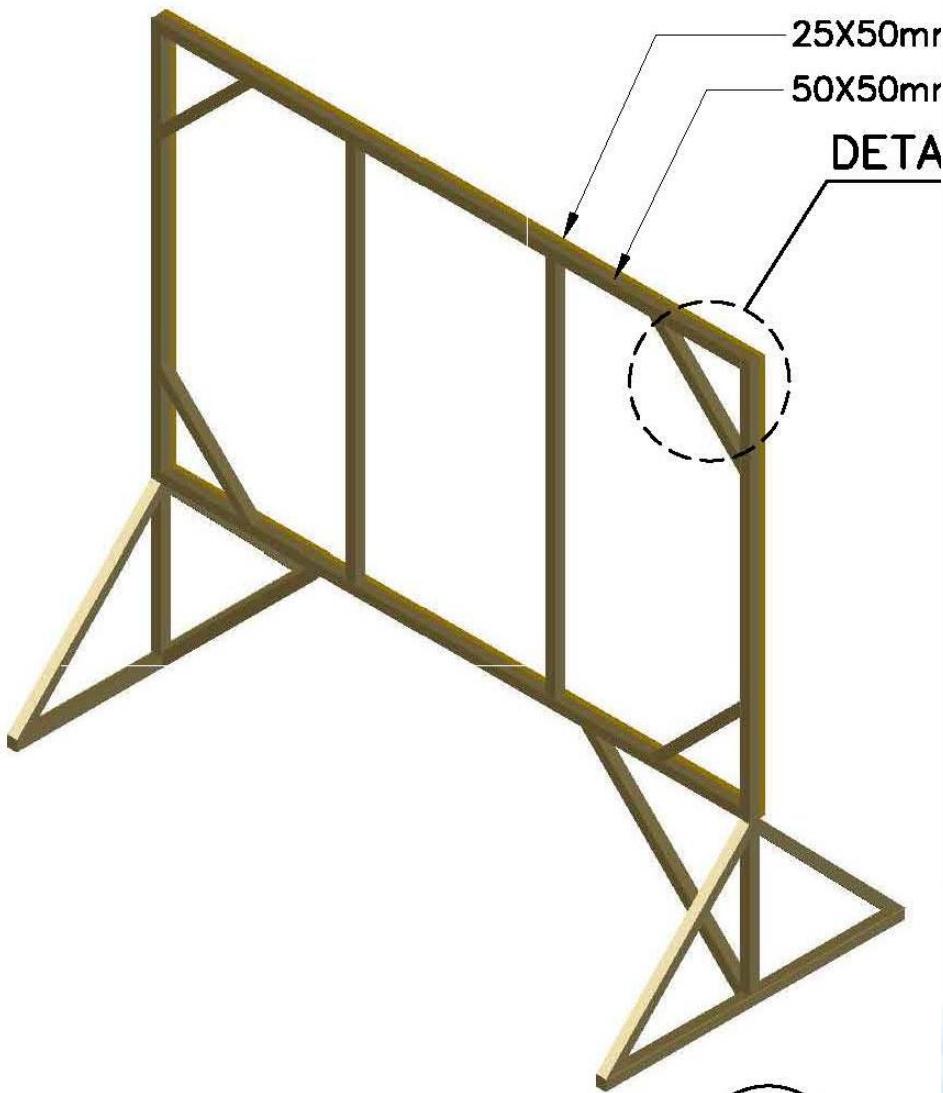
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# WOODEN FRAMES

- TO BE FABRICATED BY CONTRACTORS

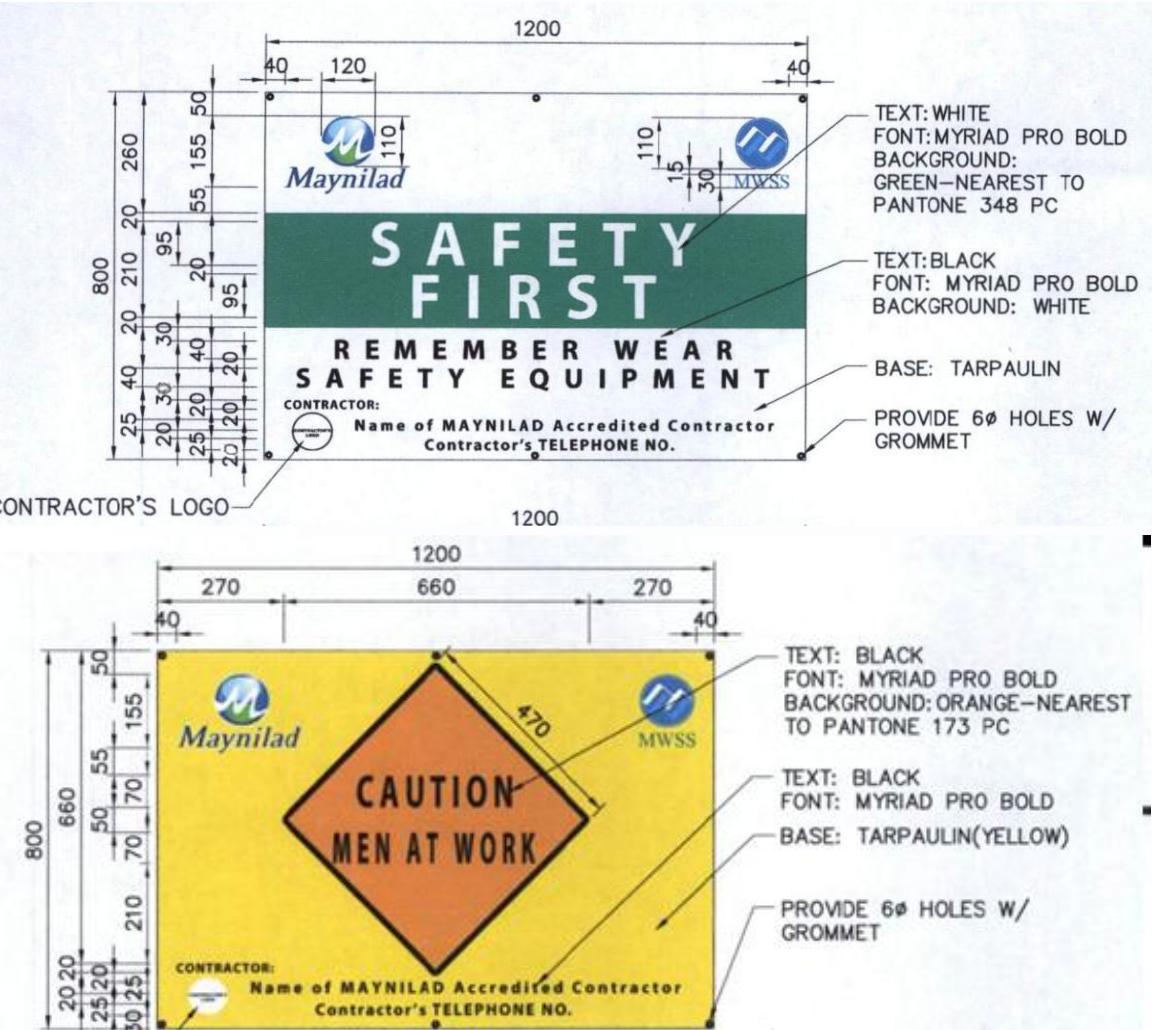


# WOODEN FRAMES

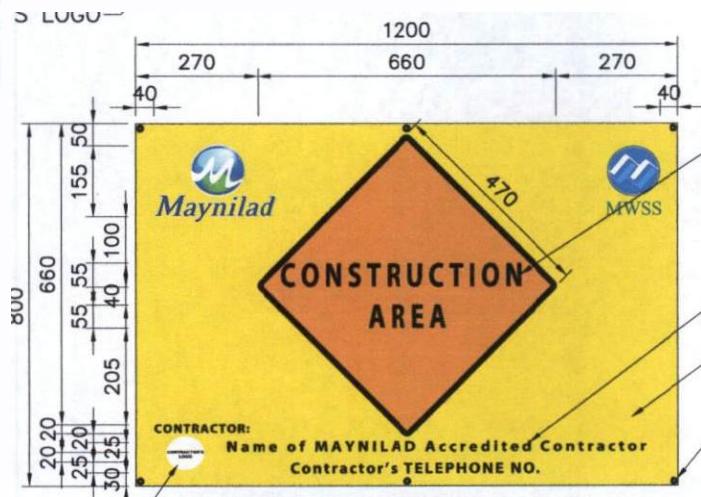


- ALTERNATIVE TO WALL MOUNTED FRAME
- TO BE FABRICATED BY CONTRACTORS

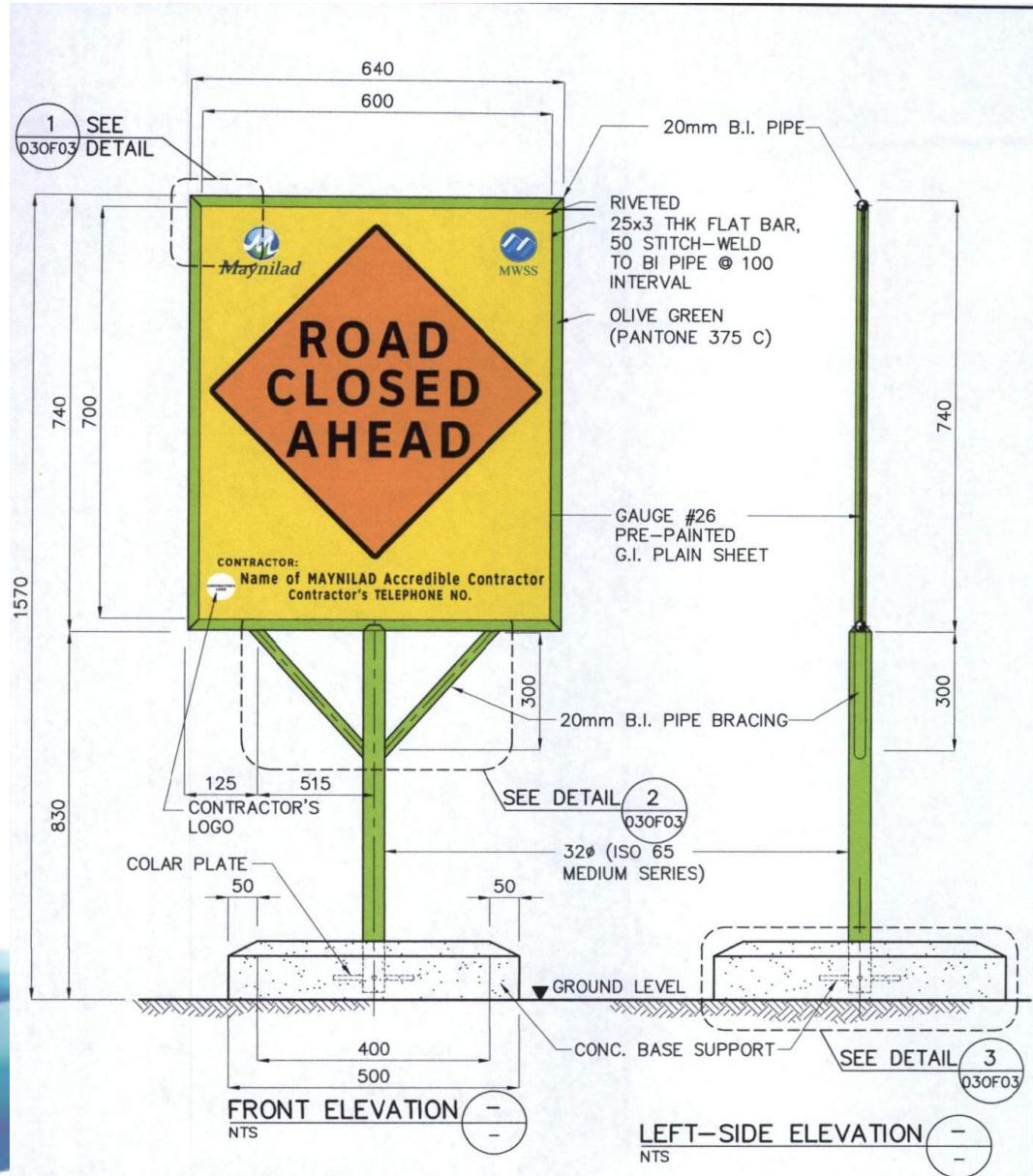
# SAFETY SIGNAGE (SPECIAL PROJECTS)



- TO BE SUPPLIED BY ACCREDITED SUPPLIERS/ FABRICATORS

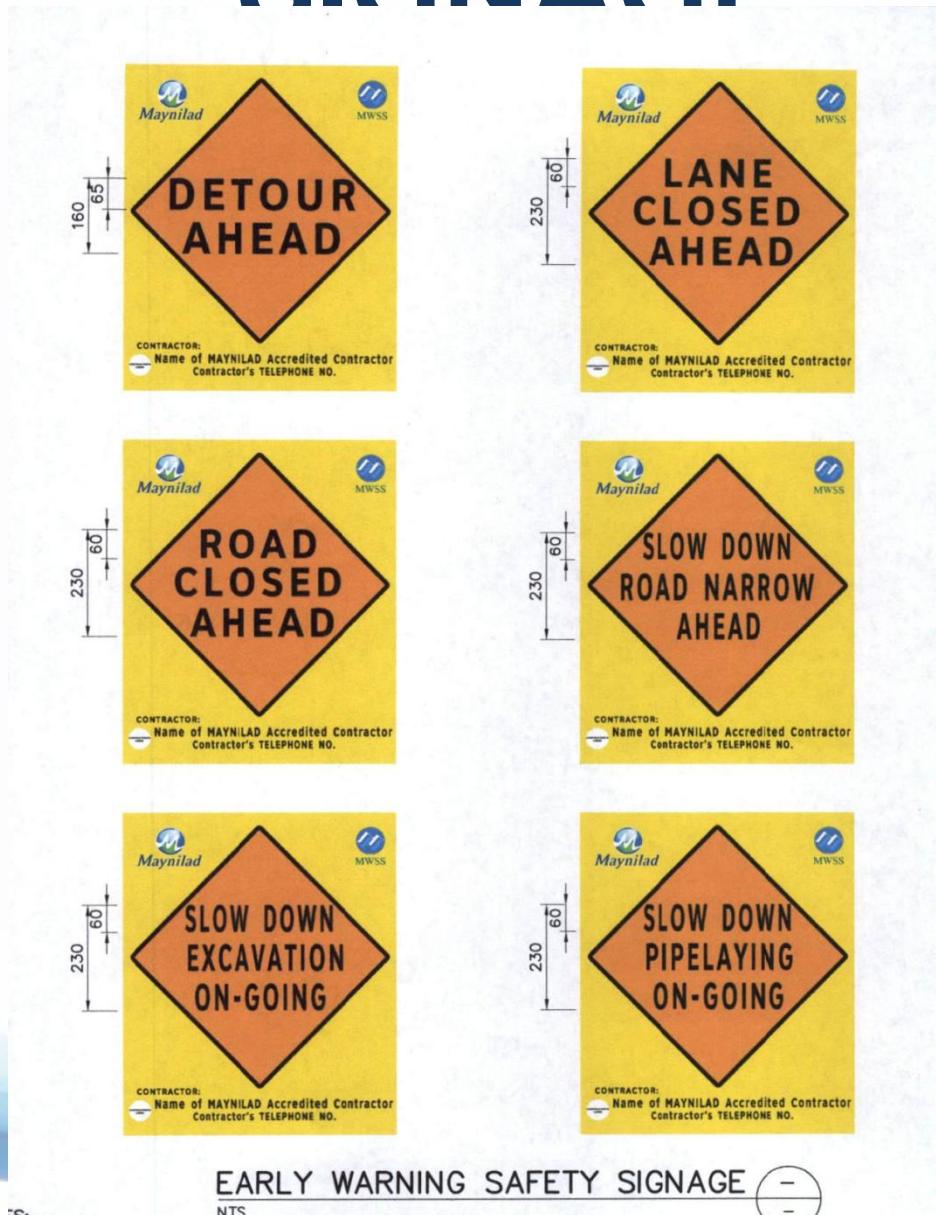


# EARLY WARNING SAFETY SIGNAG

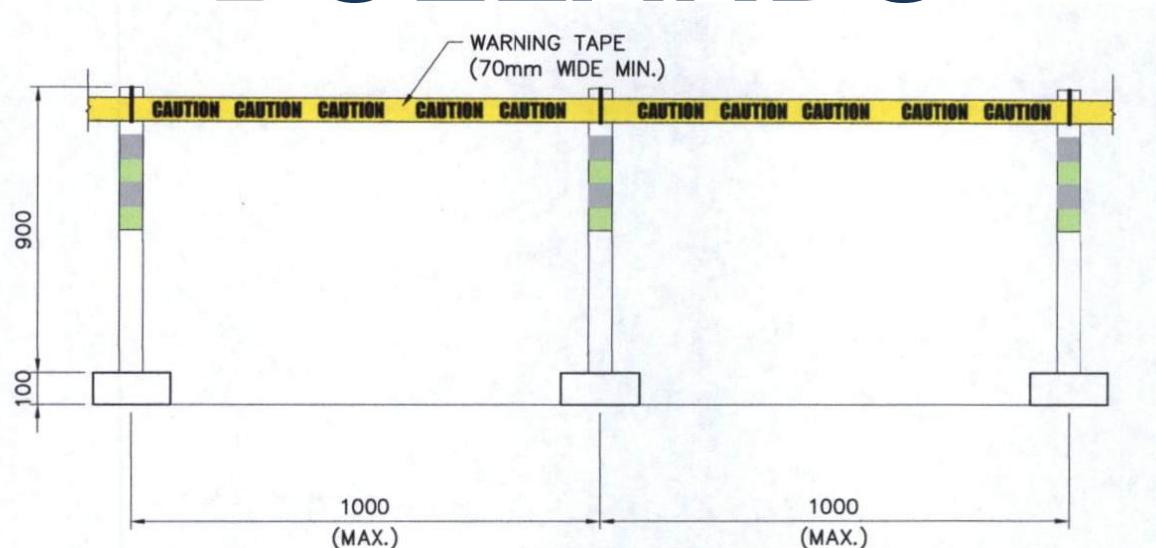


- SHALL INSTALLED AT SIDEWALKS AND ROAD ISLANDS 100M BEFORE WORK AREA
- TO BE SUPPLIED BY ACCREDITED FABRICATORS

# EARLY WARNING SAFETY SIGNAGE

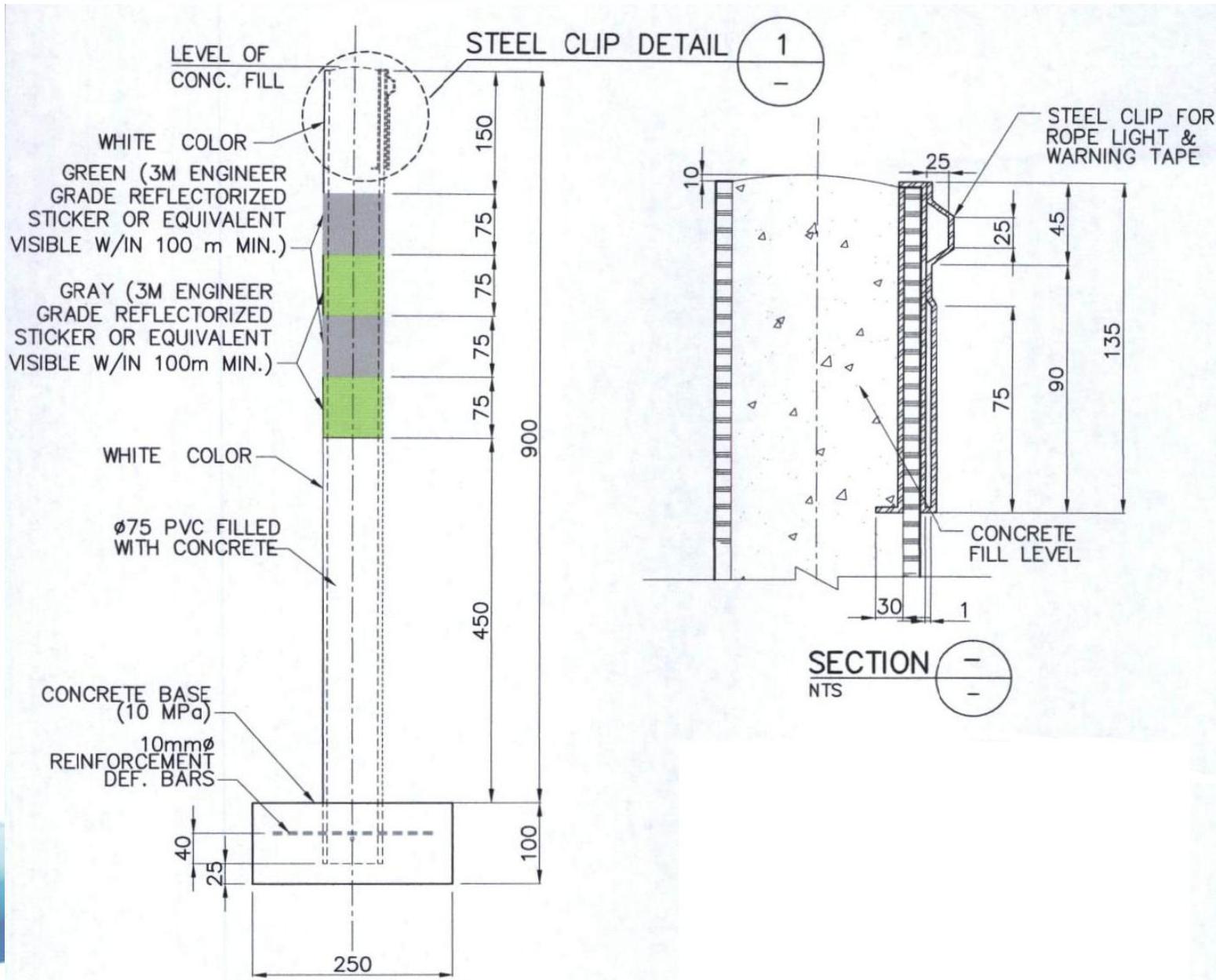


# BOLLARDS

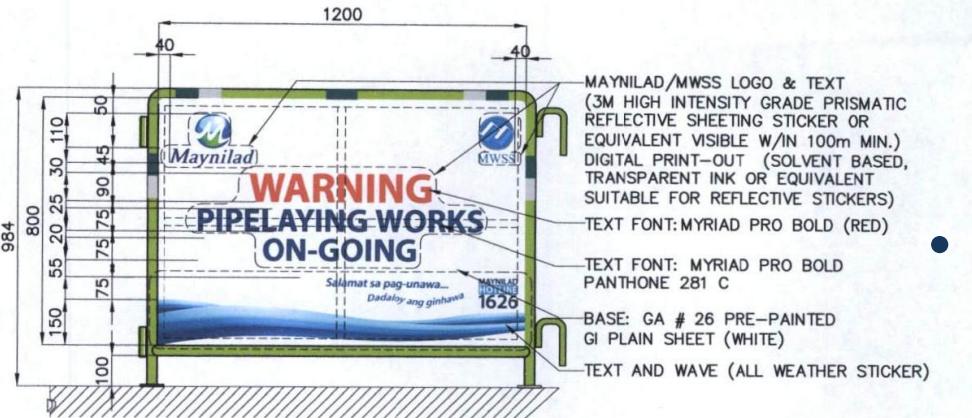


- TO BE INSTALLED/PLACED DURING PAVEMENT CUTTING, BREAKING & SURFACE RESTORATION OR IN ONE SIDE OF BUFFER AREA WHEN NOT FULLY ENCLOSED BY TRAFFIC CONES
- TO BE SUPPLIED BY ACCREDITED FABRICATORS OR CAN BE FABRICATED BY THE CONTRACTORS PROVIDED THAT THEY COMPLY WITH MAYNILAD STANDARDS

# BOLLARDS

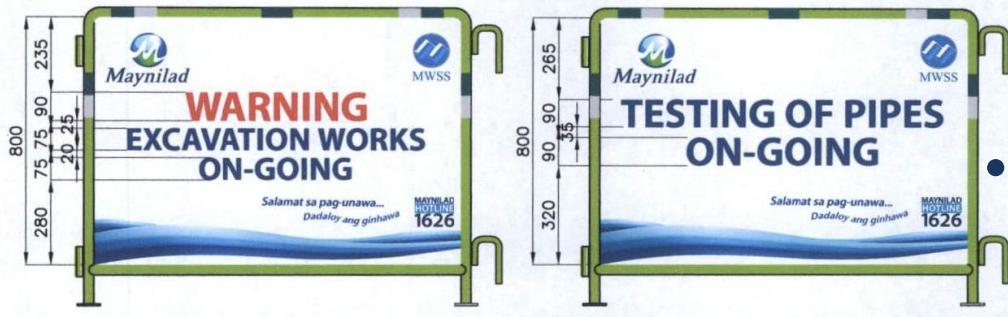


# BOARD-UPS (INFORMATION)

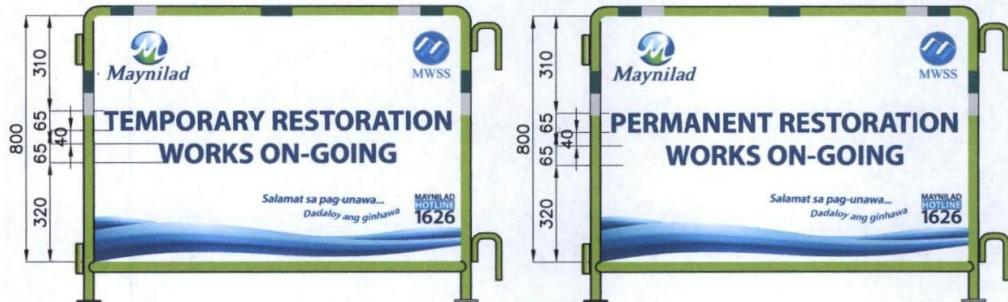


MAYNILAD/MWSS LOGO & TEXT  
(3M HIGH INTENSITY GRADE PRISMATIC  
REFLECTIVE SHEETING STICKER OR  
EQUIVALENT VISIBLE W/IN 100m MIN.)  
DIGITAL PRINT-OUT (SOLVENT BASED,  
TRANSPARENT INK OR EQUIVALENT  
SUITABLE FOR REFLECTIVE STICKERS)  
TEXT FONT: MYRIAD PRO BOLD (RED)  
TEXT FONT: MYRIAD PRO BOLD  
PANTHONE 281 C  
BASE: GA # 26 PRE-PAINTED  
GI PLAIN SHEET (WHITE)  
TEXT AND WAVE (ALL WEATHER STICKER)

- TO BE INSTALLED/PLACED AT WORK AREA AT ALL TIMES



- TO BE SUPPLIED BY ACCREDITED FABRICATORS



INFORMATION BOARD-UP  
NTS

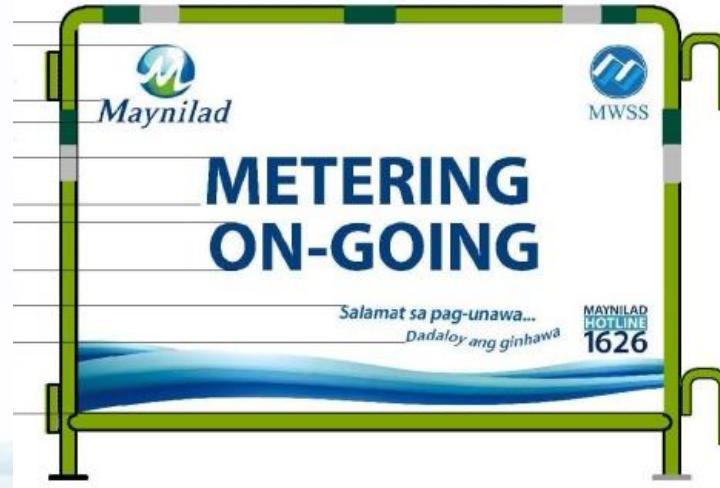


**Maynilad**

# BOARD-UPS (INFORMATION)

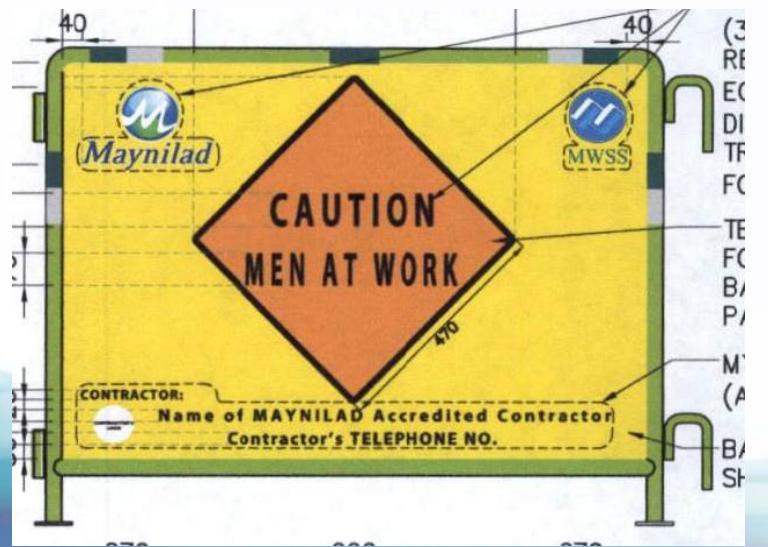


- TO BE INSTALLED/PLACED AT WORK AREA AT ALL TIMES
- TO BE SUPPLIED BY ACCREDITED FABRICATORS

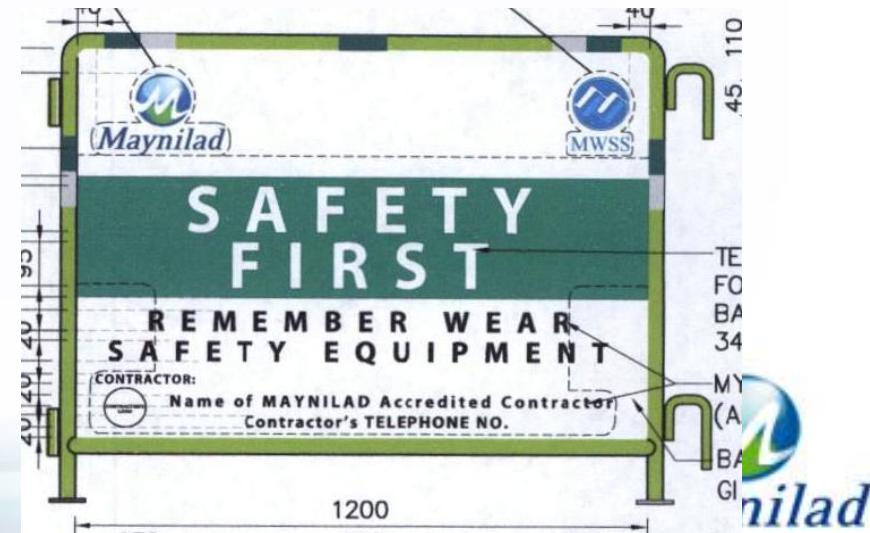


  
**maynilad**

# BOARD-UPS (SAFETY)

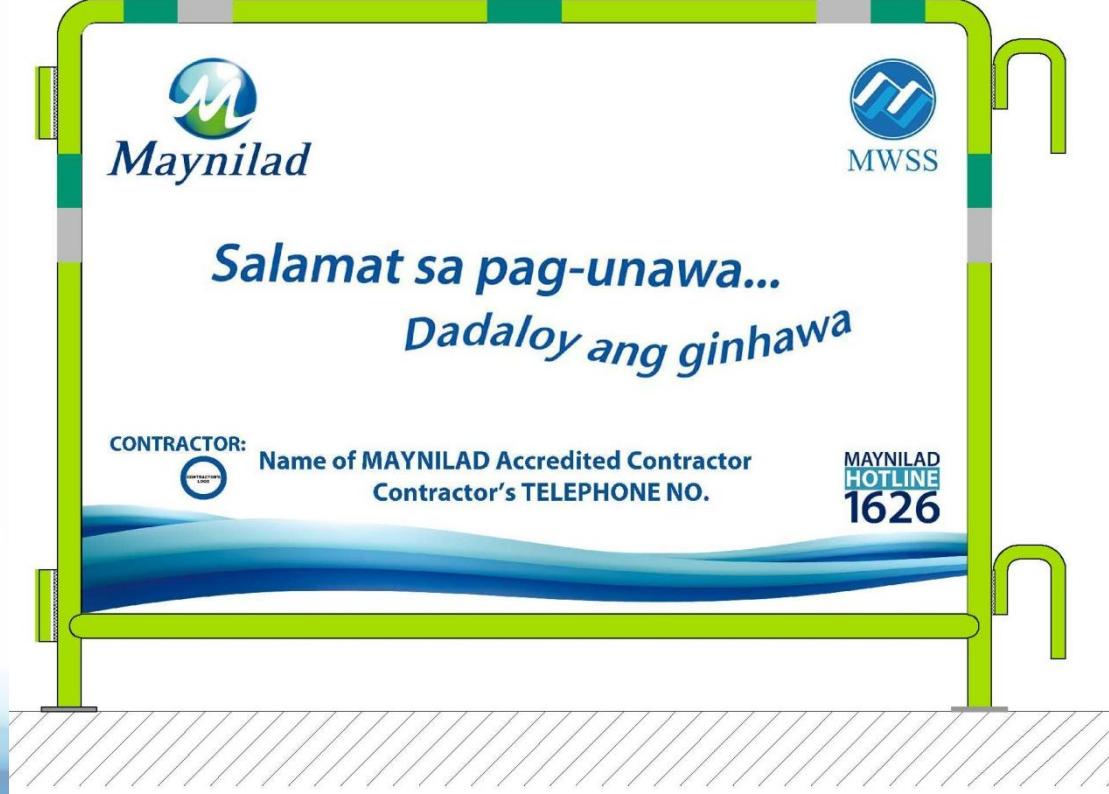


- TO BE INSTALLED/PLACED AT WORK AREA AT ALL TIMES WITH MINIMUM OF 2 UNITS OF SIGNAGES AT 150M LENGTH OF EXCAVATION
- TO BE SUPPLIED BY ACCREDITED FABRICATORS



# BOARD-UP (STANDARD)

- TO BE INSTALLED/PLACED DURING EXCAVATION
- TO BE SUPPLIED BY ACCREDITED FABRICATORS



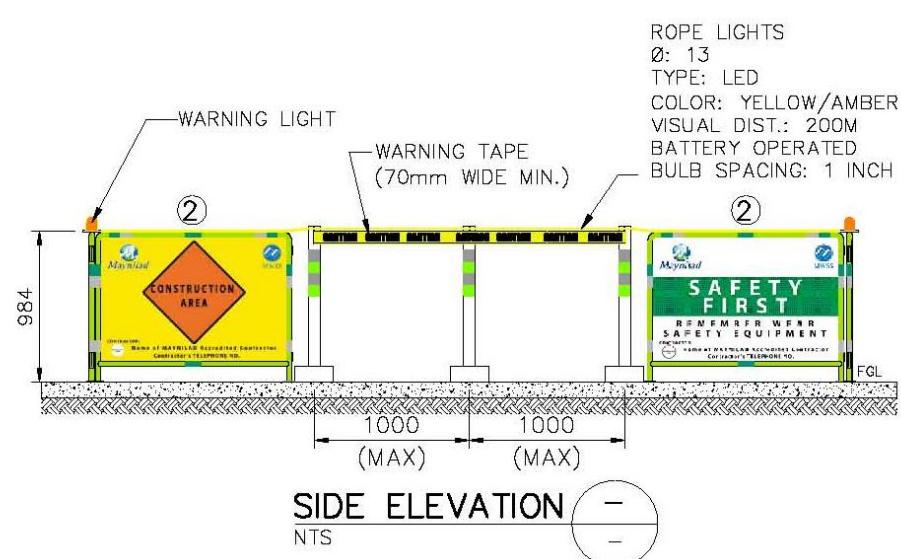
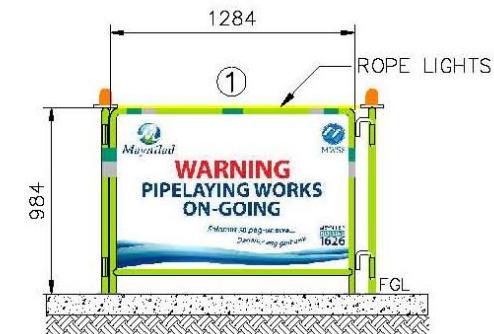
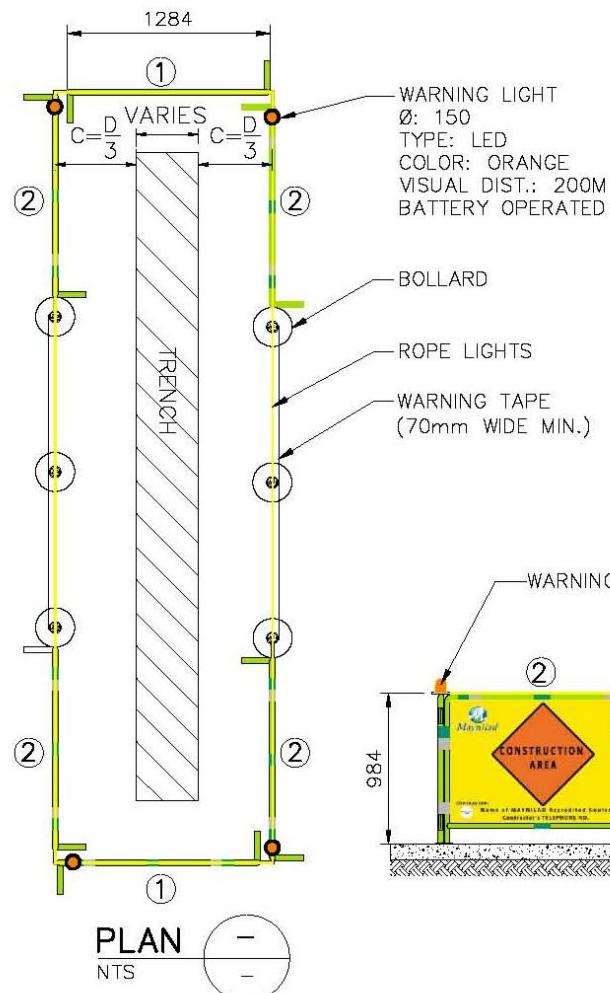
# SCHEMES

- TO BE INSTALLED/PLACED TO ENCLOSED THE WORK AREA DURING PAVEMENT CUTTING, BREAKING & SURFACE RESTORATION

## LEGEND:

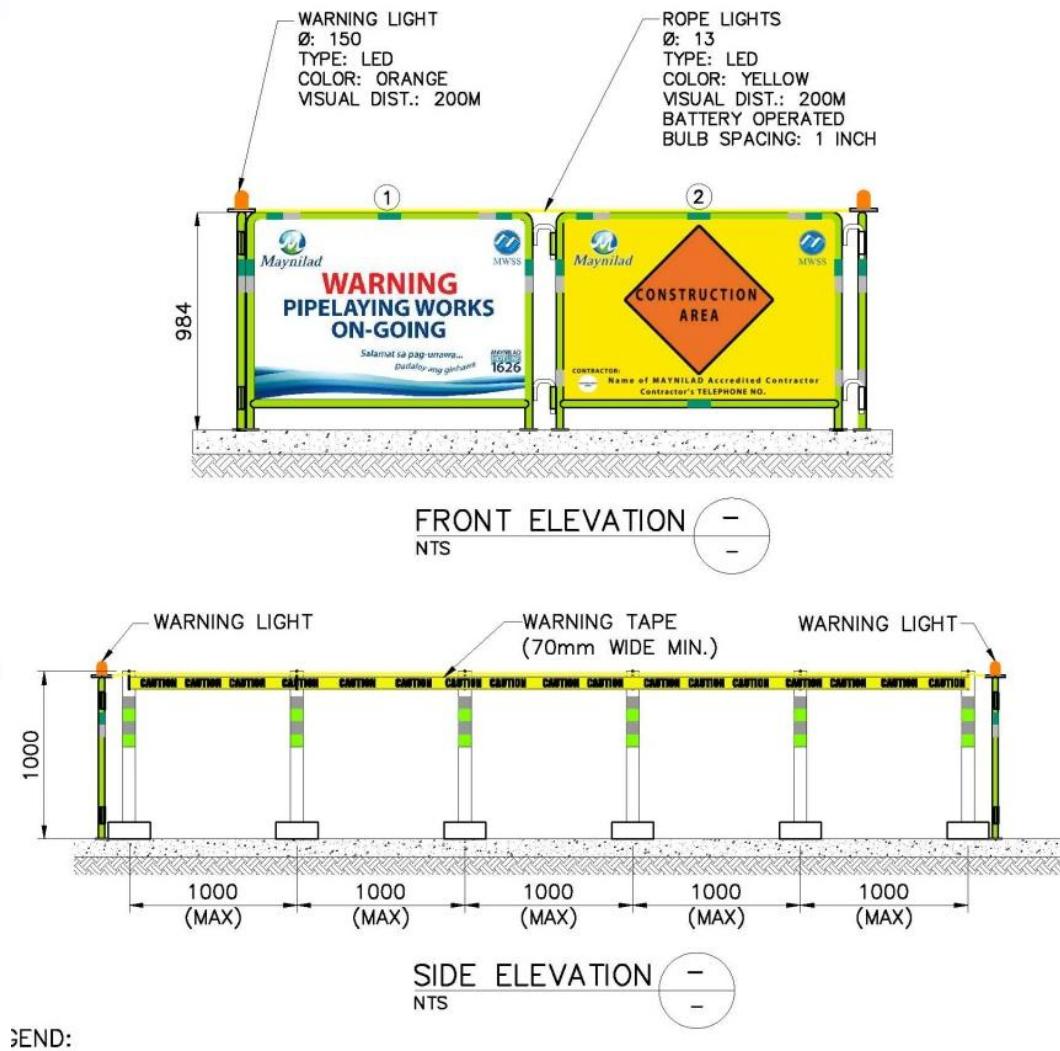
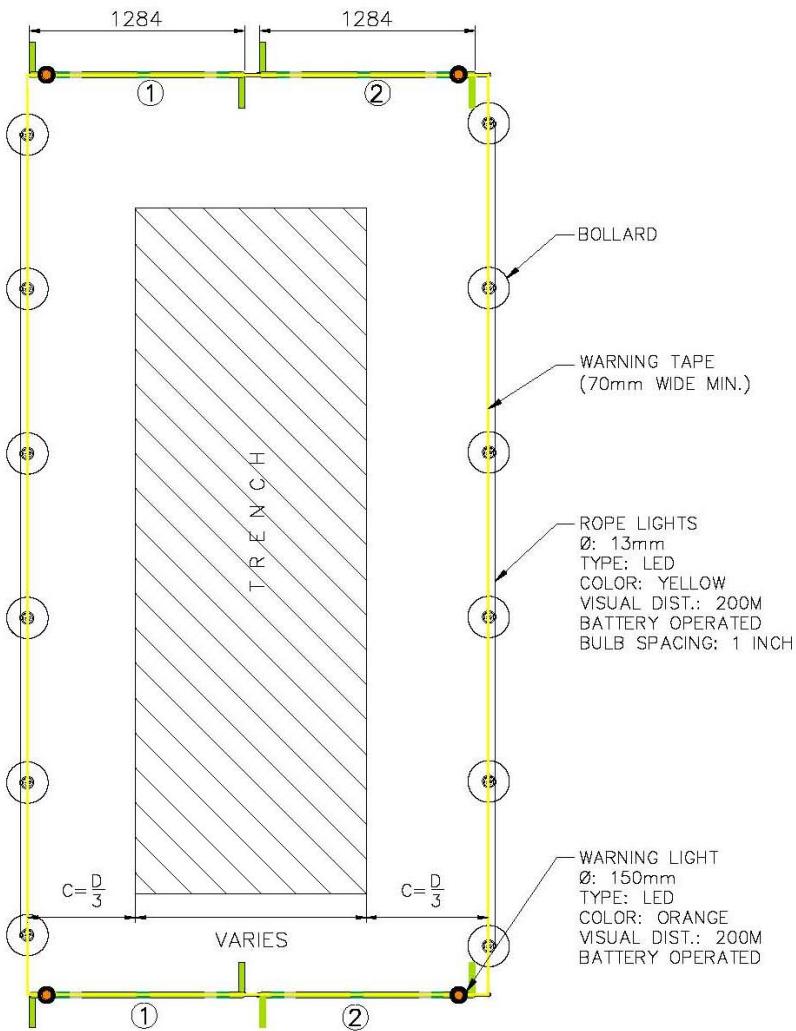
1 – INFORMATION BOARD-UP

2 – SAFETY BOARD-UP



# **SCHMES**

- TO BE INSTALLED/PLACED TO ENCLOSURE THE WORK AREA DURING PAVEMENT CUTTING, BREAKING & SURFACE RESTORATION



# SCHEMES

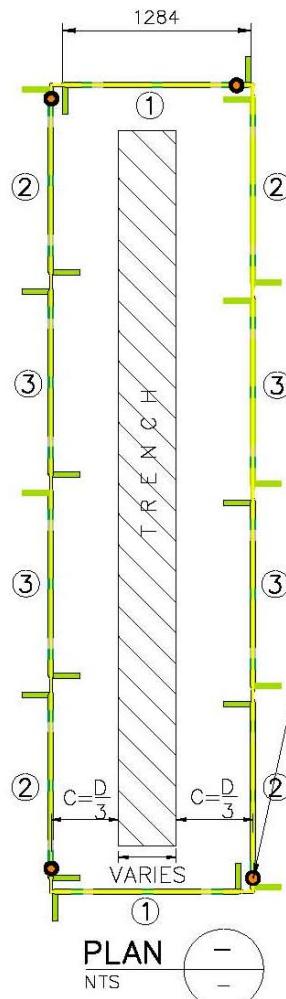
- TO BE INSTALLED/PLACED TO ENCLOSED THE WORK AREA DURING EXCAVATION

## LEGEND:

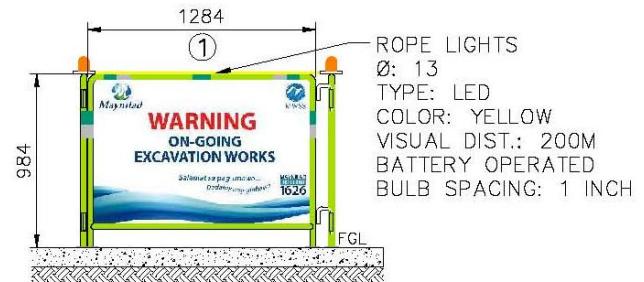
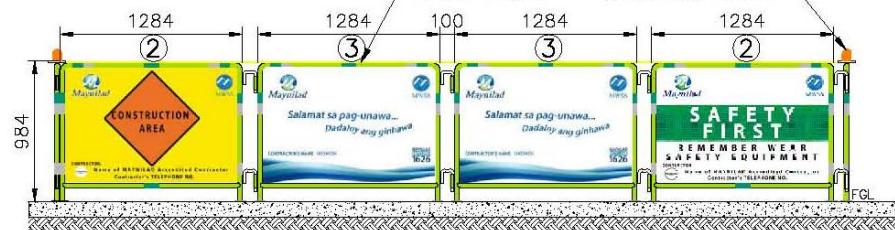
1 – INFORMATION BOARD-UP

2 – SAFETY BOARD-UP

3 – STANDARD BOARD-UP



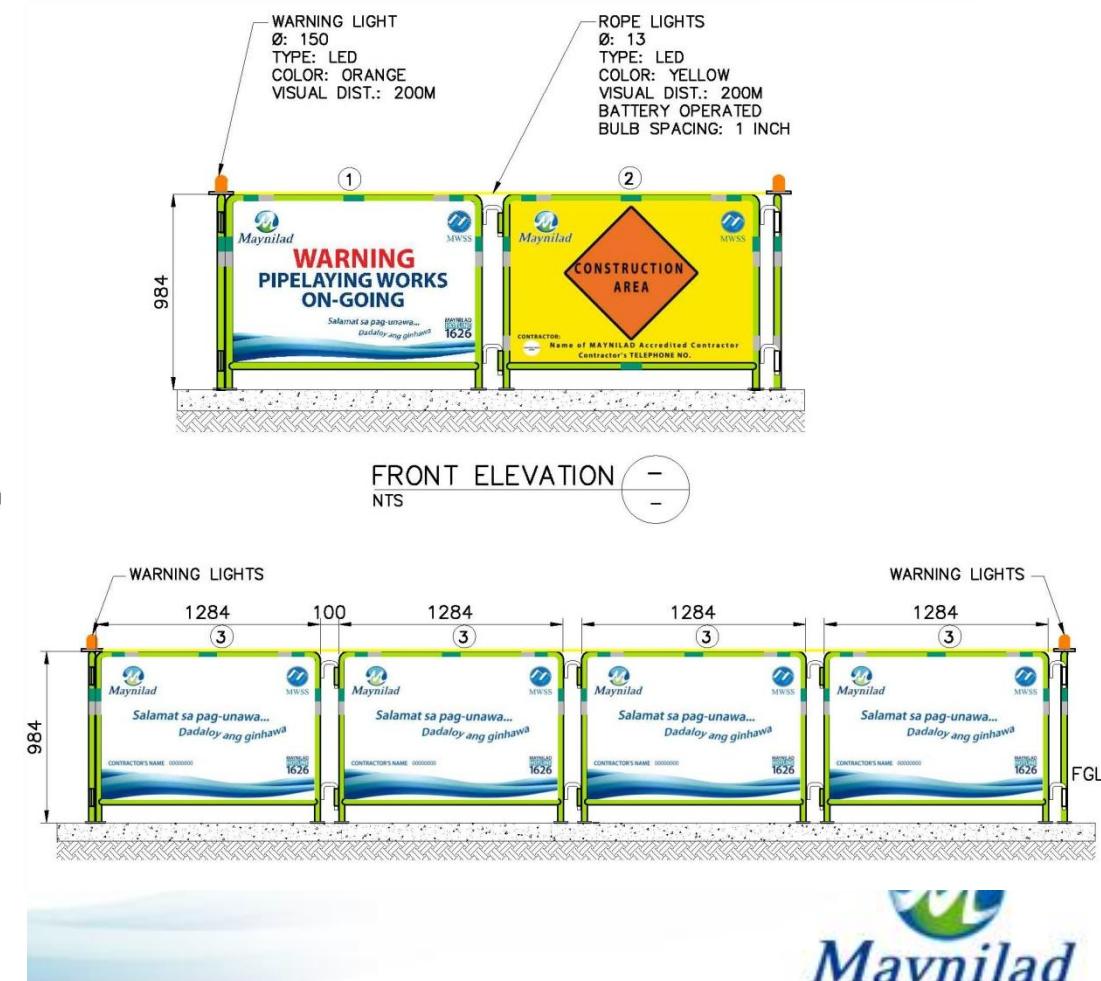
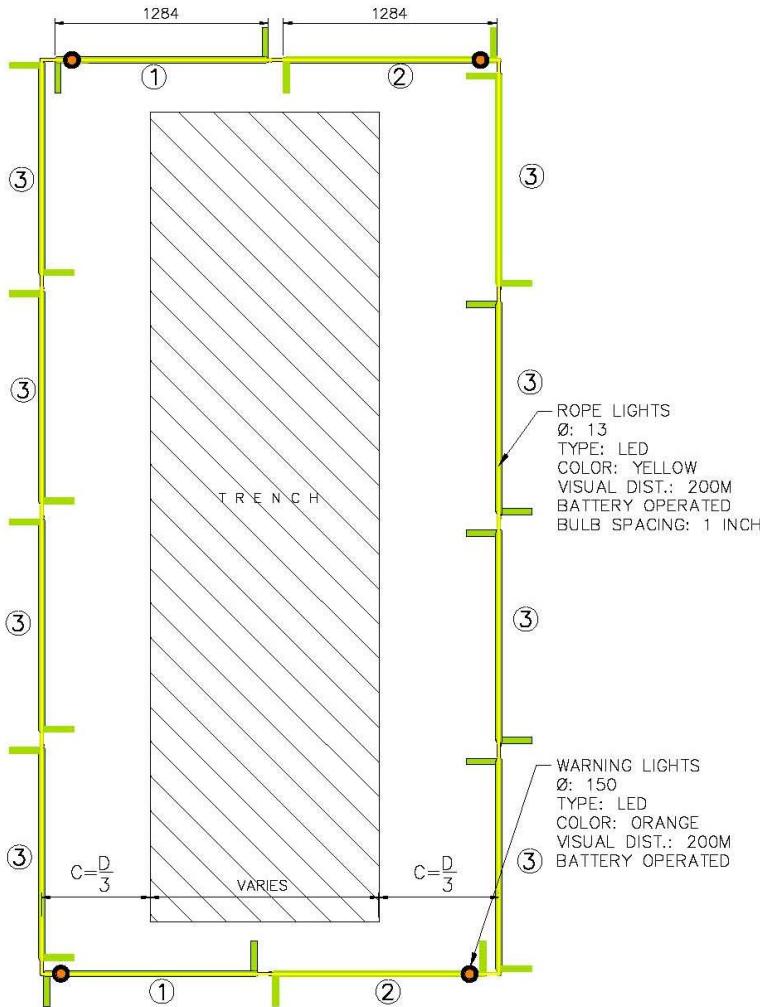
WARNING LIGHT  
Ø: 150  
TYPE: LED  
COLOR: ORANGE  
VISUAL DIST.: 200M  
BATTERY OPERATED



FRONT ELEVATION  
NTS

# SCHEMES

- TO BE INSTALLED/PLACED TO ENCLOSED THE WORK AREA DURING EXCAVATION



# WARNING LIGHTS

- **SPECIFICATIONS**

- ✓ TYPE: LED
- ✓ COLOR: RED
- ✓ **VISUAL DISTANCE: 200M**
- ✓ BATTERY OPERATED
- ✓ ROTATING LIGHT
- ✓ CLAMP TYPE

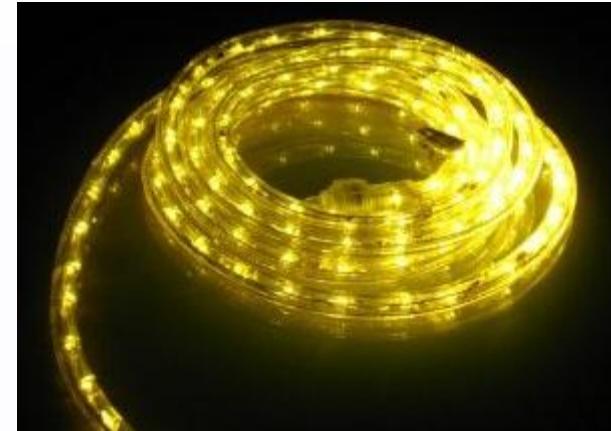


- WORK AREA SHALL HAVE A WARNING LIGHTS DURING **NIGHT TIME**
- **SHALL BE PROVIDED BY THE CONTRACTOR**

# ROPE LIGHTS

- **SPECIFICATIONS**

- ✓ Ø = 13mm.
- ✓ TYPE: LED
- ✓ COLOR: YELLOW/AMBER
- ✓ **VISUAL DISTANCE: 200M**
- ✓ BATTERY OPERATED
- ✓ BULB SPACING: 1 INCH



- WORK AREA SHALL HAVE A ROPE LIGHTS DURING **NIGHT TIME**
- **SHALL BE PROVIDED BY THE CONTRACTOR**

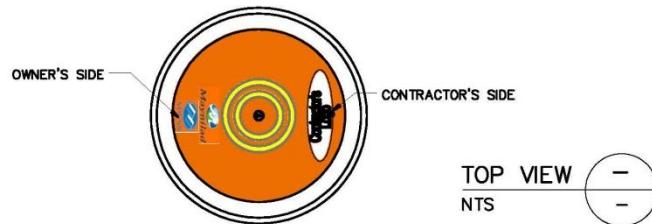
# ARROW LIGHT

- TO BE INSTALLED/PLACED IN TRANSITION AREA ON BUSY CITY ROADS & NATIONAL ROADS
- VISUAL DISTANCE: 300M
- OPERATING MODES:  
**FLASHING (LEFT/RIGHT), FLASHING DOUBLE ARROW**
- ARROW LIGHT - TO BE SUPPLIED BY ACCREDITED SUPPLIERS/FABRICATORS
- STAND - TO BE FABRICATED BY CONTRACTORS.

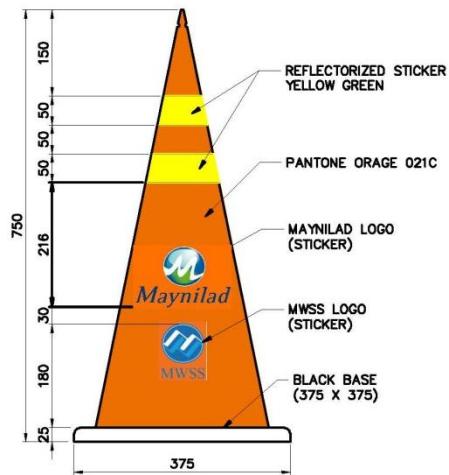


# TRAFFIC CONES

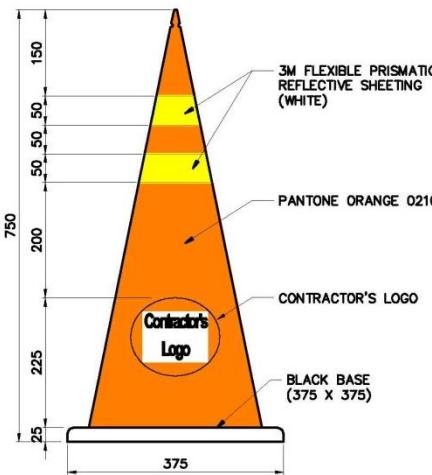
- TO BE PLACED AT TRANSITION & BUFFER AREA WITH ONE (1) METER O.C. SPACING



TOP VIEW  
NTS



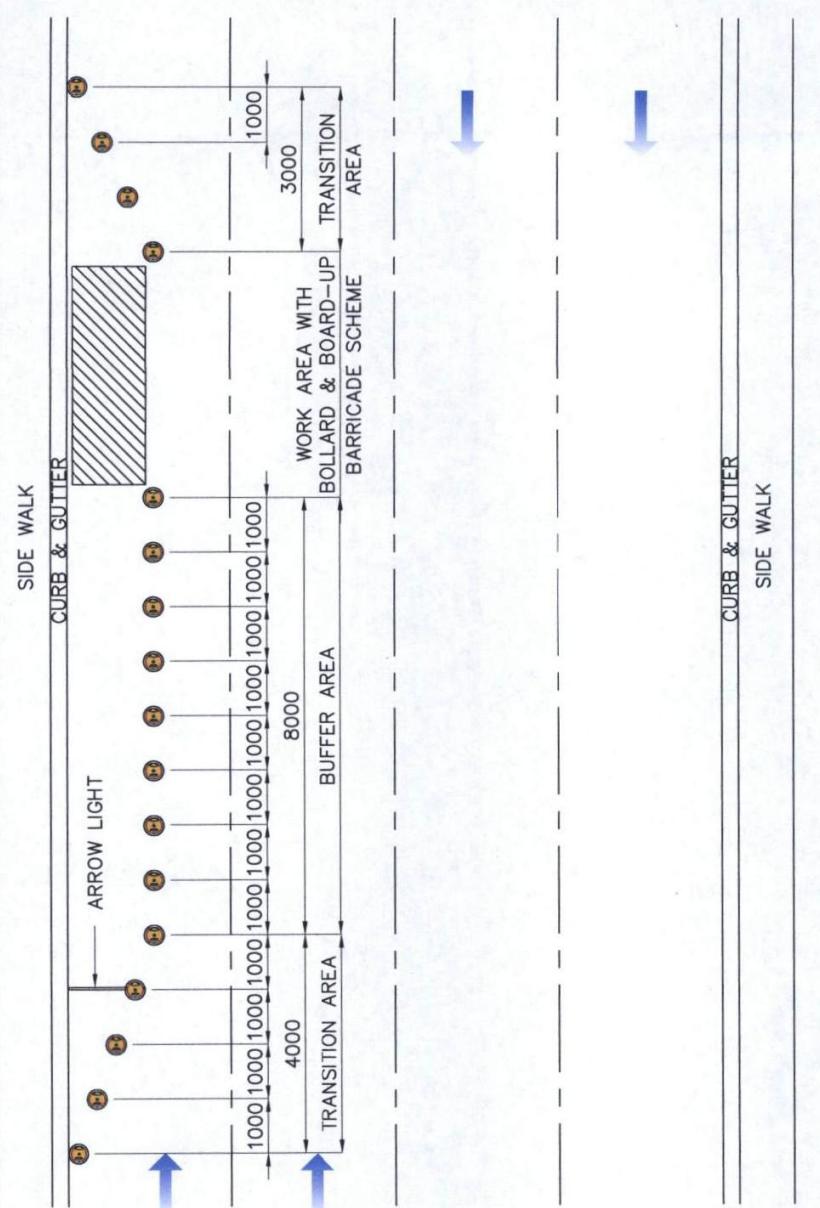
OWNER'S LOGO SIDE  
NTS



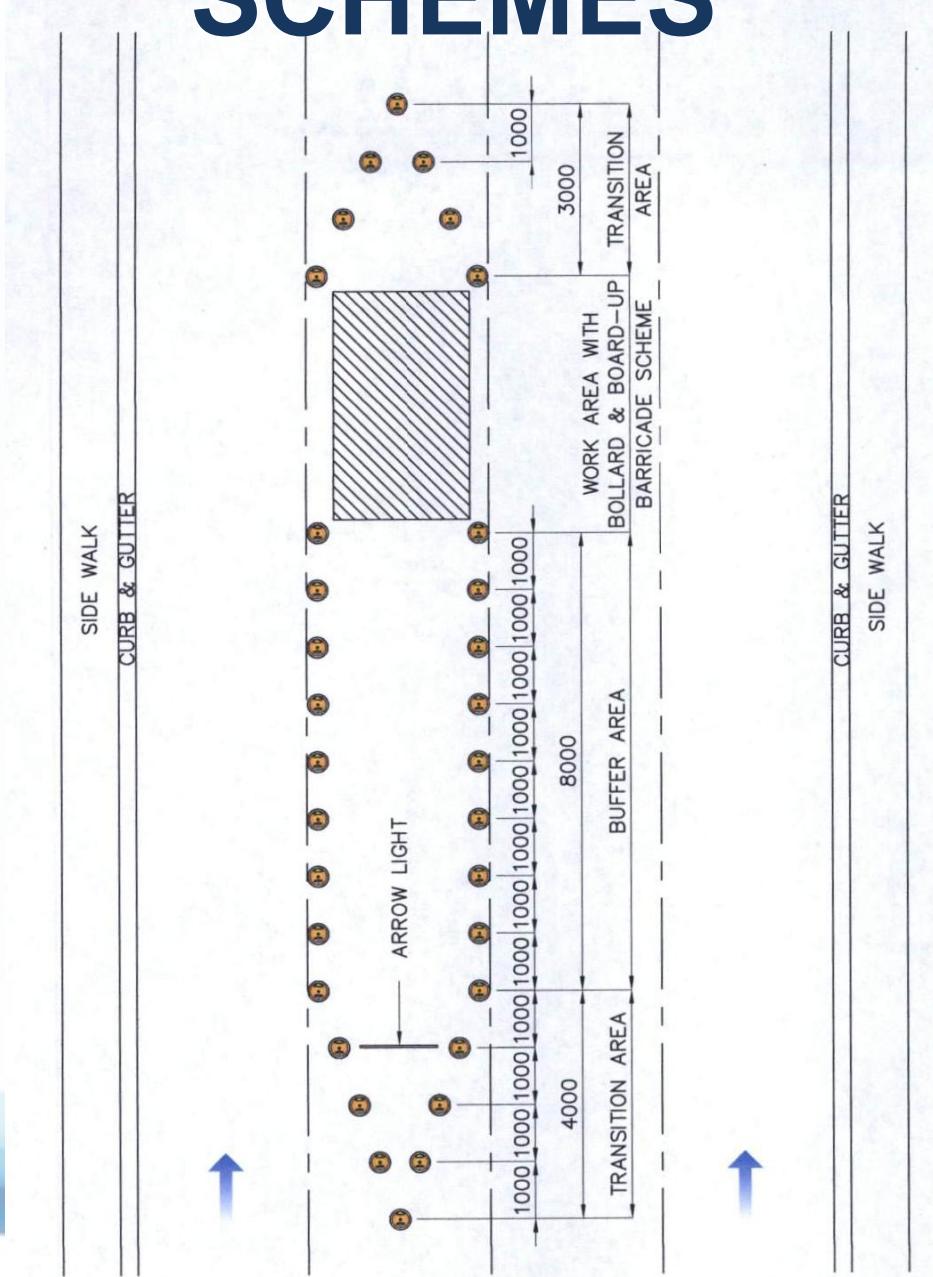
CONTRACTOR'S LOGO SIDE  
NTS

RUBBERIZED TRAFFIC CONE DETAIL

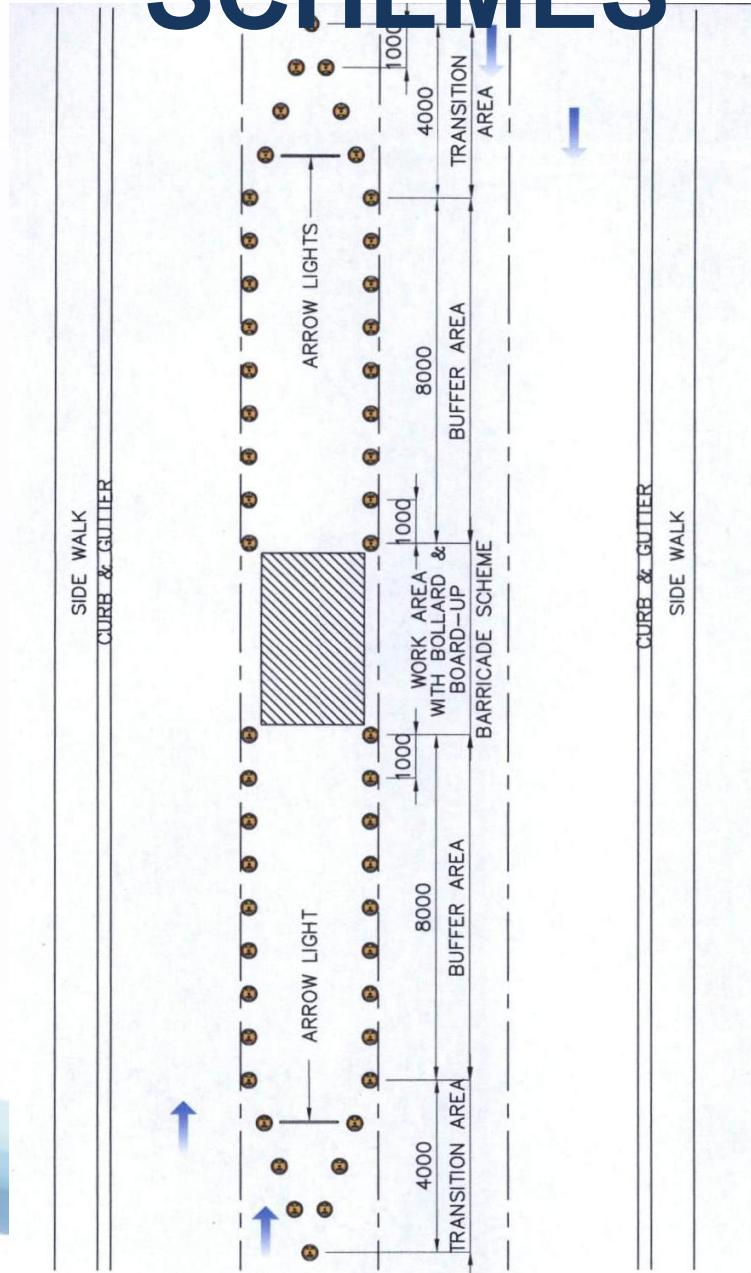
# RUBBERIZED TRAFFIC CONE SCHEMES



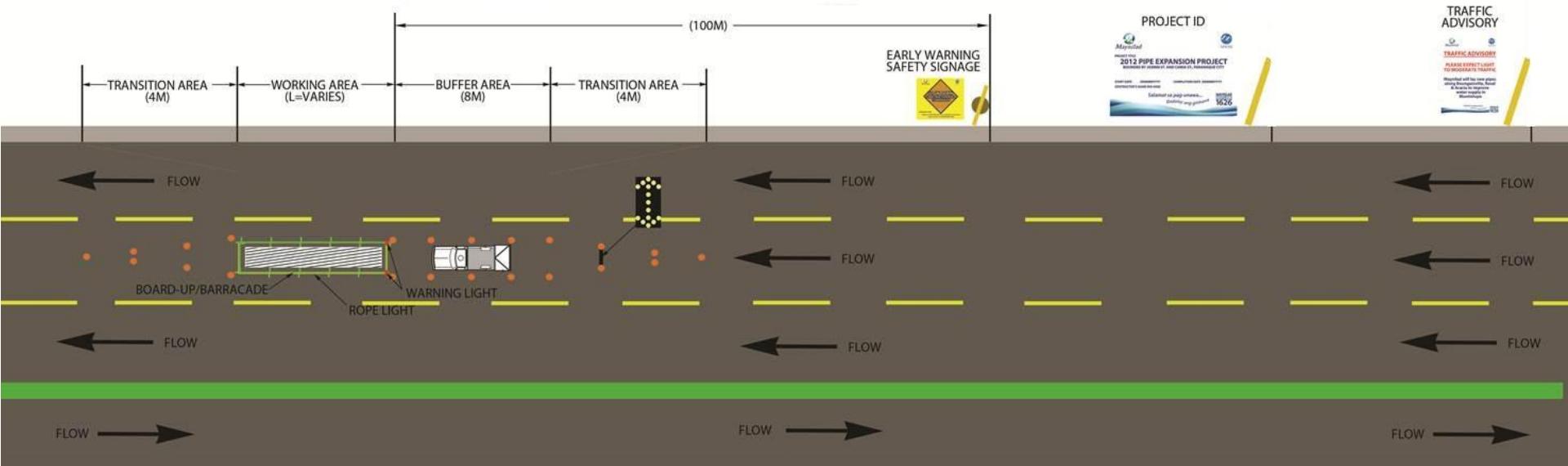
# RUBBERIZED TRAFFIC CONE SCHEMES



# RUBBERIZED TRAFFIC CONE SCHEMES

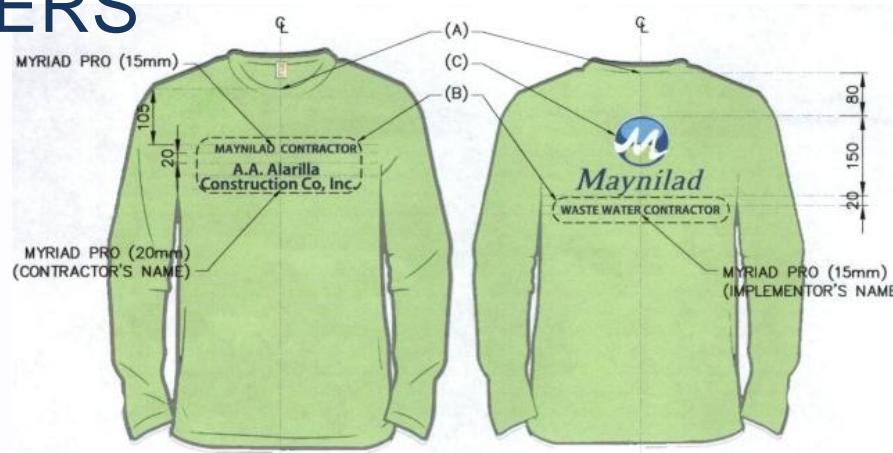


# WORK AREA OVERVIEW



# CONTRACTOR'S UNIFORM

- SHIRTS TO SUPPLIED BY ACCREDITED SUPPLIERS



CONTRACTORS UNIFORM

NTS

NOTE:

THE MAYNILAD CORPORATE ICON SHOULD ALWAYS APPEAR W/ A 2mm WHITE OUTLINE WHEN APPLIED AGAINST A SOLID BACKGROUND.

COLOR IDENTIFICATION:

DIVISION	COLOR CODE		
	(A) SHIRT	(B) TEXT/FONT	(C) LOGO
BUSINESS AREA	PANTONE 286 C	WHITE	SEE COLOR REF.
CENTRAL NON REVENUE WATER	PANTONE 555 C	WHITE	SEE COLOR REF.
WATER NETWORK	PANTONE 802 C	PANTONE 281 C	SEE COLOR REF.
WASTEWATER	GRAY	PANTONE 281 C	SEE COLOR REF.
PROGRAM MANAGEMENT	PANTONE 635 C	PANTONE 281 C	SEE COLOR REF.

COLOR REFERENCE:  
(FROM ADVOCACY & MARKETING)

TEXT FONT:	SHIRT:	LOGO:
PANTONE 281 C (C100 M88 Y0 K40)	PANTONE 286 C (C100 M88 Y0 K0)	PANTONE 635 C (C36 M0 Y12 K0)
WHITE	PANTONE 802 C (C65 M0 Y100 K0)	PANTONE 7549 C (C72 M16 Y14 K15)
	PANTONE 555 C (C85 M34 Y81 K24)	PANTONE 635 C (C36 M0 Y12 K0)
	GRAY	PANTONE PROCESS BLACK C (C70 M64 Y65 K73)



### CONTRACTORS UNIFORM

NTS

NOTES:

1. TEXT: MYRIAD PRO;
2. ALL UNITS ARE IN MILLIMETER;
3. THE CONTRACTOR/SUPPLIER SHALL SUBMIT SAMPLE MATERIAL/SAMPLE PRINT OUT TO BE APPROVED BY SAFETY/ADVOCACY & MARKETING.

⚠ - CHANGED/ADDITIONAL  
CALL OUT AND SPEC'S.

# **ACCREDITED SUPPLIER OF TARPAULIN & STICKERS FOR SIGNAGES**

- LARGEFORMATIX

# ACCREDITED SUPPLIERS OF BOARD-UPS, BOLLARDS, EARLY WARNING SIGNAGE

- Aristocrat
- Arty Ferrocast
- Dominus
- Top Choice

**ARROW LIGHT  
– KIV**

**CONTRACTORS'S UNIFORM  
– ARTY FERROCAST**

**FOR YOUR  
STRICT  
IMPLEMENTATION  
THANK YOU!!!**