

COMMONWEALTH OF THE NORTHERN MARIANA ISLANDS
SAIPAN, MP 96950
DEPARTMENT OF PUBLIC WORKS TECHNICAL SERVICES DIVISION


Beach Road & Micro Beach Road INTERSECTION IMPROVEMENT (ROUNDBABOUT)

PROJECT NO.: TQ-THS-0033(302)

APPROVAL


ANTHONY A. CAMACHO
DIRECTOR, TECHNICAL SERVICES

01/14/25
DATE


RAY N. YUMUL
SECRETARY OF PUBLIC WORKS

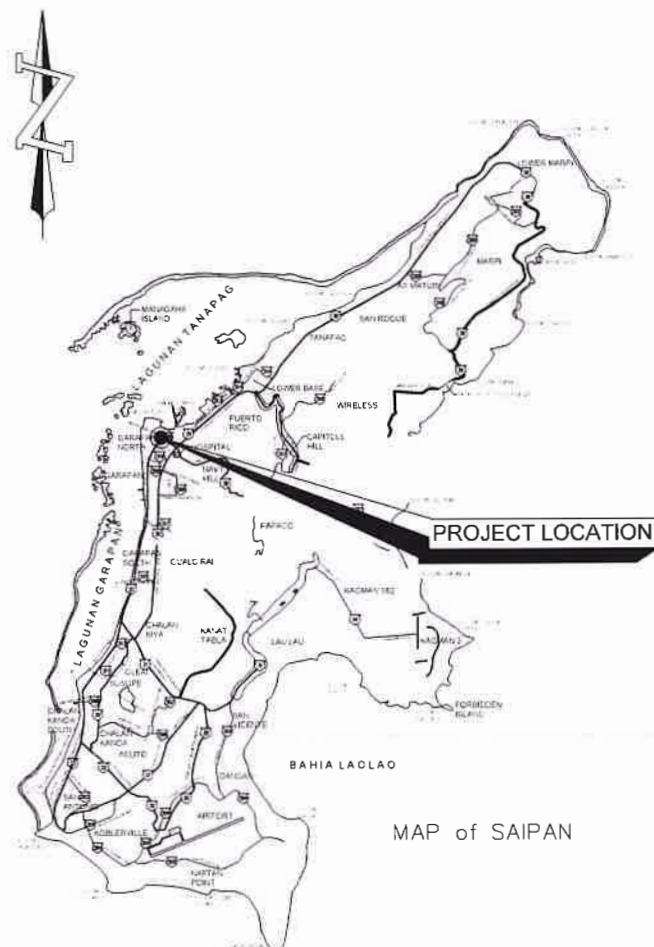
1/14/25
DATE

PROJECT DESCRIPTION:

This project involved construction of ROUNDABOUT at the intersection of Beach Road & Micro Beach Road to improve safety and mobility. The roundabout includes upgrading roadway pavement structure, demolition, excavation, backfilling sub-base and base course, concrete medians, curb & gutter, concrete curb and apron, bricks, landscaping, asphaltic concrete pavement, dense anti-skid pavement, traffic signages and pavement markings.

NO.	DATE	DESCRIPTION	BY	APPR.	
<div> <div> COMMONWEALTH OF THE NORTHERN MARIANA ISLANDS SAIPAN DEPARTMENT OF PUBLIC WORKS </div> <div> MP 96950 TECHNICAL SERVICES DIVISION </div> </div>					
DSGN	CHKD	PROJECT TITLE: Beach Road & Micro Beach Road INTERSECTION IMPROVEMENT (ROUNDAABOUT)			
DRWN	SUPV				
CHIEF HIGHWAY ENGINEER		DATE	CONTENT: PROJECT TITLE, LOCATION MAP, DRAWING INDEX		
DIR. OF TECH. SERVICES DIV.		DATE	T-1.0 <div> <div>USING AGENCY</div> <div>DPW</div> <div>DATE</div> <div>AUGUST2023</div> </div> <div> <div>SCALE</div> <div>ASSHOWN</div> <div>SHEET</div> <div>1 OF 11</div> </div>		
SECRETARY OF PUBLIC WORKS		DATE			

LOCATION MAP

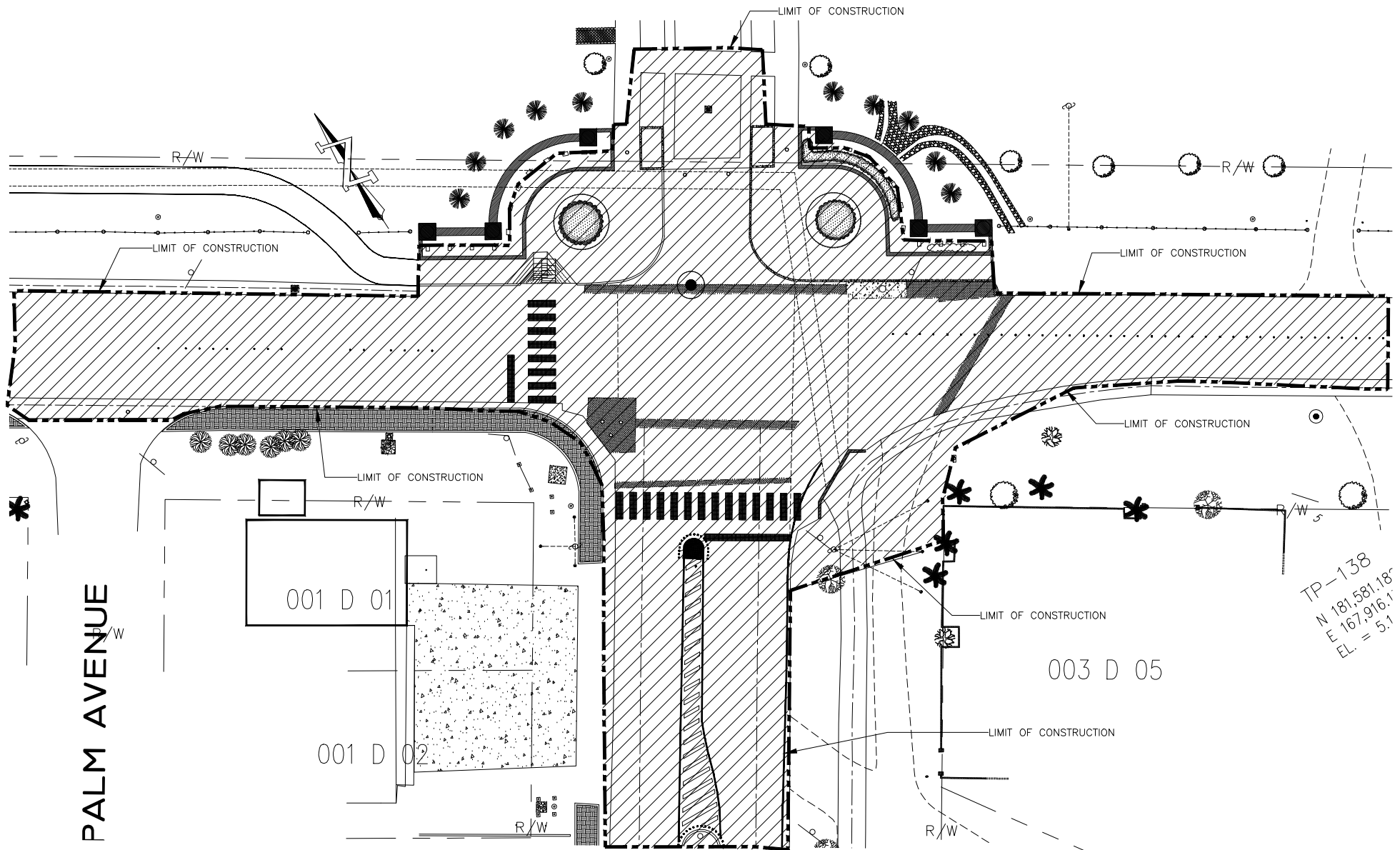


VICINITY MAP



DRAWING INDEX

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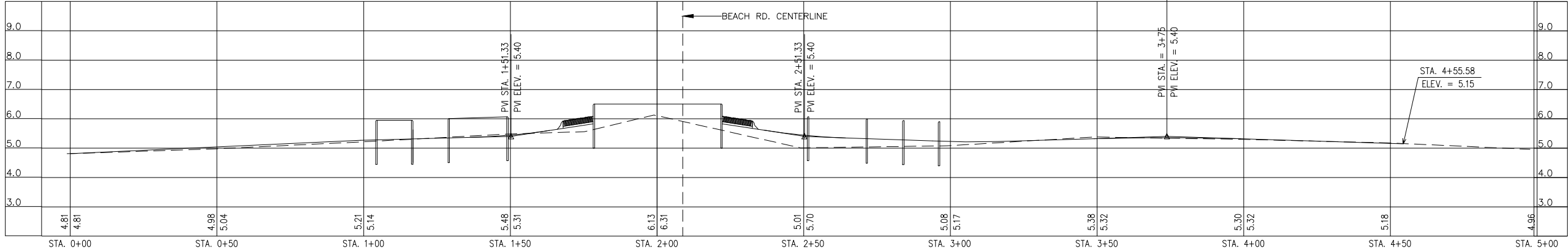
SPECIAL NOTE:

1. EXISTING ASPHALT, CONCRETE SLAB, PLANTER BOX, ALL STRIPES, RAISED MEDIAN & ROAD MARKERS WITHIN HATCHED BOUNDARY SHALL BE REMOVED AND REPLACE ACCORDINGLY.
2. UTILITIES SUCH AS SEWER MANHOLES, GATE VALVES & OTHERS WITHIN THE HATCHED BOUNDARY SHALL BE ADJUSTED TO MATCH FINISHED GRADE.
3. NEW ASPHALT WITHIN THE DASHED BOUNDARY SHALL BE NEW 3" THK. A.C. PAVEMENT WITH 1 INCH THICK ANTI-SKID.
4. EXISTING CONCRETE SIDEWALK, CURB AND GUTTER SHALL BE REMAIN AND REPLACE WITH NEW CONCRETE SIDEWALK IF AFFECTED.
5. EXISTING ELECTRICAL LIGHTING WITHIN 2 FEET OF THE IMPROVEMENT SHALL BE RELOCATED W/ DPW COORDINATION. CUC POWER POLES WITHIN THE IMPROVEMENT WILL REMAINED AS LONG AS IT DOES NOT FALL WITHIN THE NEW ROADWAY.
6. EXISTING CATCH BASIN OF ALL MAJOR DRAINAGE OUTLETS SHALL BE EITHER ADJUSTED TO OR MOVE IF AFFECTED BY THE IMPROVEMENTS BUT SAME GRATING WILL BE USED UNLESS CONTRACTING OFFICER SAY TO REMOVED AND REPLACED INCLUDING PIPES.
8. ALL BROKEN DRAINAGE CURB INLET SHALL BE REPAIR OR REPLACED. RECONDITION AND CLEAN ALL EXISTING DRAINAGE PIPE.
9. ALL UTILITIES, TRESS AND FLOWERS WITHIN 3 FEET OF THE ROAD PAVEMENT SHALL BE REMOVED AND RELOCATED.
10. ALL EXISTING TRESS ON THE MEDIAN THAT ARE NOT AFFECTED SHALL REMAIN.
11. EXISTING LAMP POST WITHIN 2'-0" OF PROPOSED SHALL BE REMOVED AND INSTALLED.
12. AMERICAN MEMORIAL PARK LETTERING SHALL BE REMOVED AND TURN OVER TO NATIONAL PARK SERVICES (NPS). REPAIR CONCRETE SURFACE AND PAINT BOTH SIDE PER NPS DIRECTION.
13. ARROWHEAD AND BRONZE EAGLE MEDALLION SHALL REMAIN.
14. EXISTING CONCRETE BOLLARD SHALL BE REMOVE AND RELOCATE.

1 DEMOLITION PLAN
D-1 NOT TO SCALE

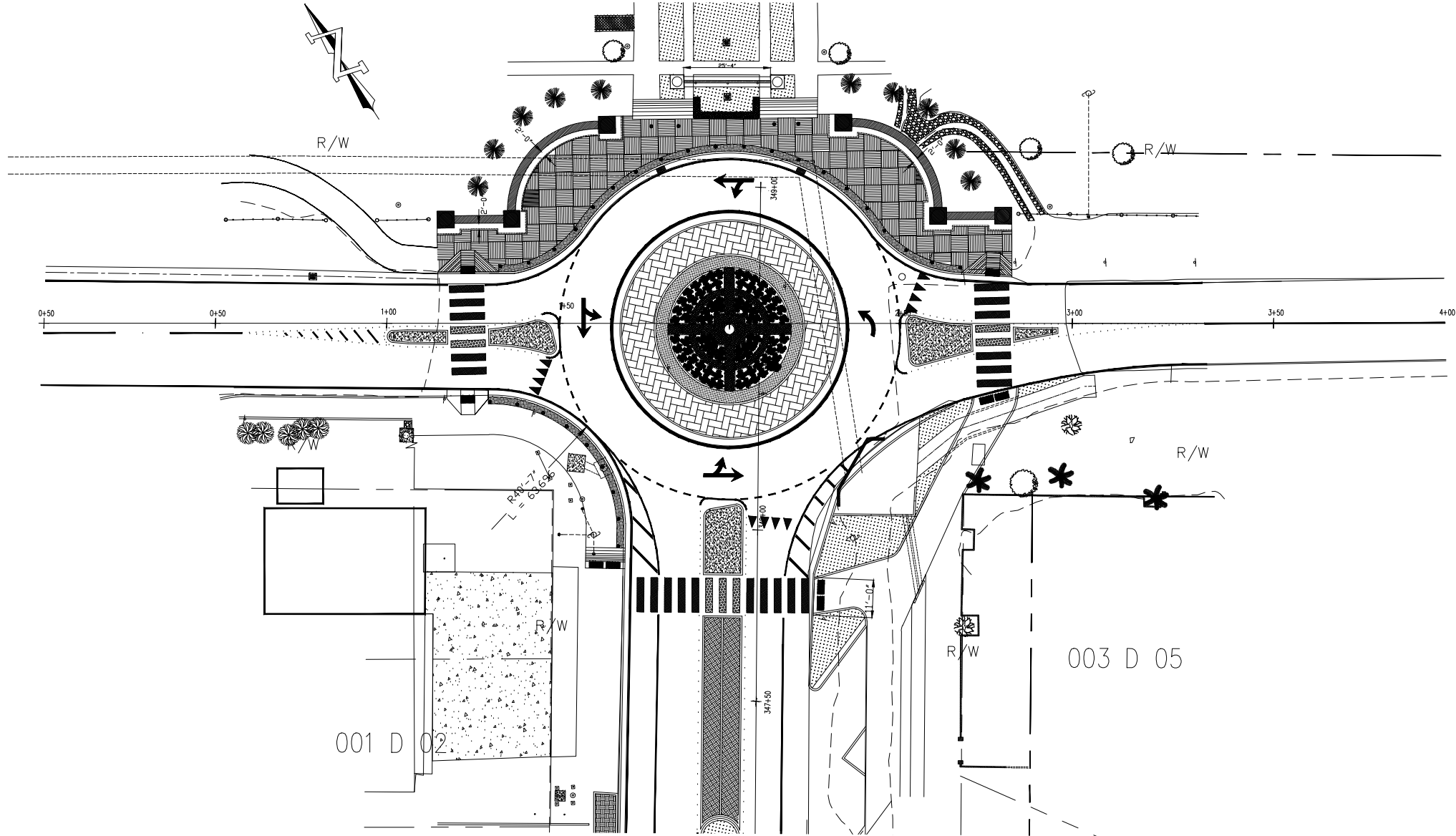
NO.	DATE	DESCRIPTION		BY APPR.
COMMONWEALTH OF THE NORTHERN MARIANA ISLANDS				
SAIPAN		MP 96950		
DEPARTMENT OF PUBLIC WORKS		TECHNICAL SERVICES DIVISION		
DSGN	HB	CHKD	HB	PROJECT TITLE: Beach Road & Micro Beach Road INTERSECTION IMPROVEMENT (ROUNDBOUT)
DRWN	MBR	SUPV	HB	
CHIEF HIGHWAY ENGINEER _____				CONTENT: DEMOLITION PLAN (STA. 0+00 to 4+50)
DATE _____				
DIR. OF TECH. SERVICES DIV. _____				D-1.0 USING AGENCY DPW DATE SCALE ASSHOWN SHEET
DATE _____				
SECRETARY OF PUBLIC WORKS _____				AUGUST2023 2 OF 11

- GENERAL NOTES:
1. VERIFY AND CHECK ALL DIMENSIONS AND DETAILS SHOWN ON THE DRAWINGS BEFORE COMMENCING THE CONSTRUCTION. ANY DISCREPANCIES SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE DPW FOR CLARIFICATION.
 2. ANY ARCHAEOLOGICAL ARTIFACT, UXO OR HUMAN REMAIN ARE UNCOVERED DURING CONSTRUCTION, THE CONTRACTOR SHALL CEASE THE WORK AND NOTIFY DPW.
 3. ANY DISCREPANCY OR CONFLICT FOUND IN THE FIELD PRIOR OR DURING CONSTRUCTION, CONTRACTOR SHALL IMMEDIATELY NOTIFY DPW. DO NOT PROCEED UNTIL DPW RESOLVES THE CONFLICT AND DISCREPANCY.
 4. AS-BUILT SURVEY CONTRACTOR SHALL SUBMIT FOR DPW REVIEW PRIOR TO START THE WORK.
 5. HORIZONTAL CONTROL WAS BASED ON MARIANA ISLANDS DISTRICT COORDINATE SYSTEM OF 1966 AND RELATED MONUMENT.
 6. VERTICAL CONTROL WASE BASED ON USGS BENCH MARK "TAM-1 1969, WITH ELEV. OF 6.558 FT. ABOVE MEAN SEA LEVEL.
 7. ALL DISTANCES AND ELEVATIONS SHOWN ARE IN FEET AND DECIMALS THEREOF.



1
C-1

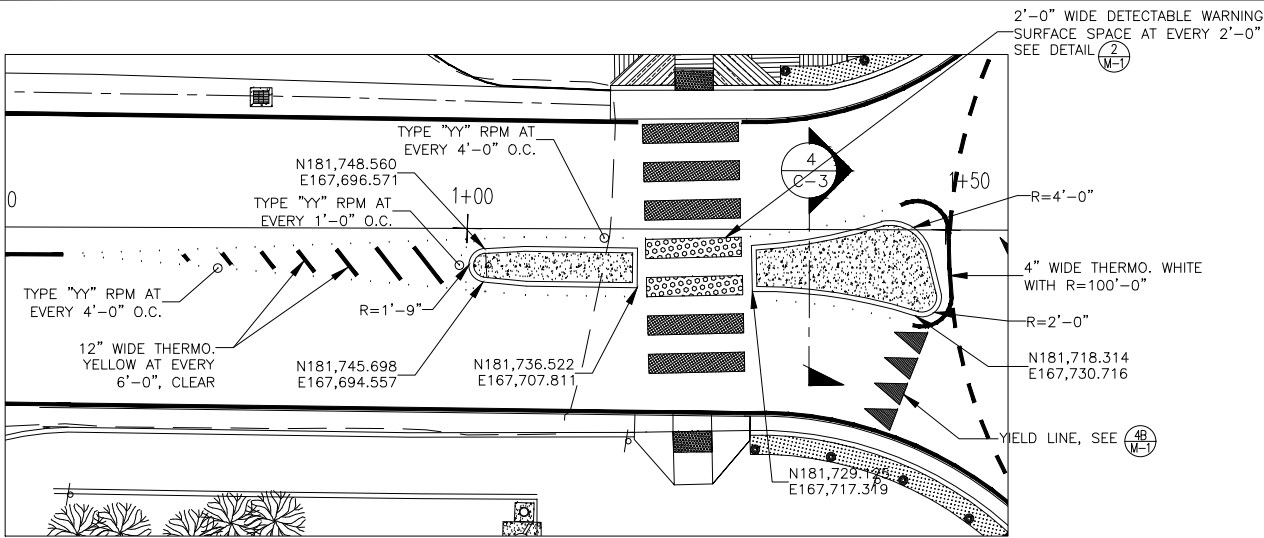
MICRO BEACH ROAD
PROFILE
SCALE: 1" = 40' (H)
1" = 4' (V)



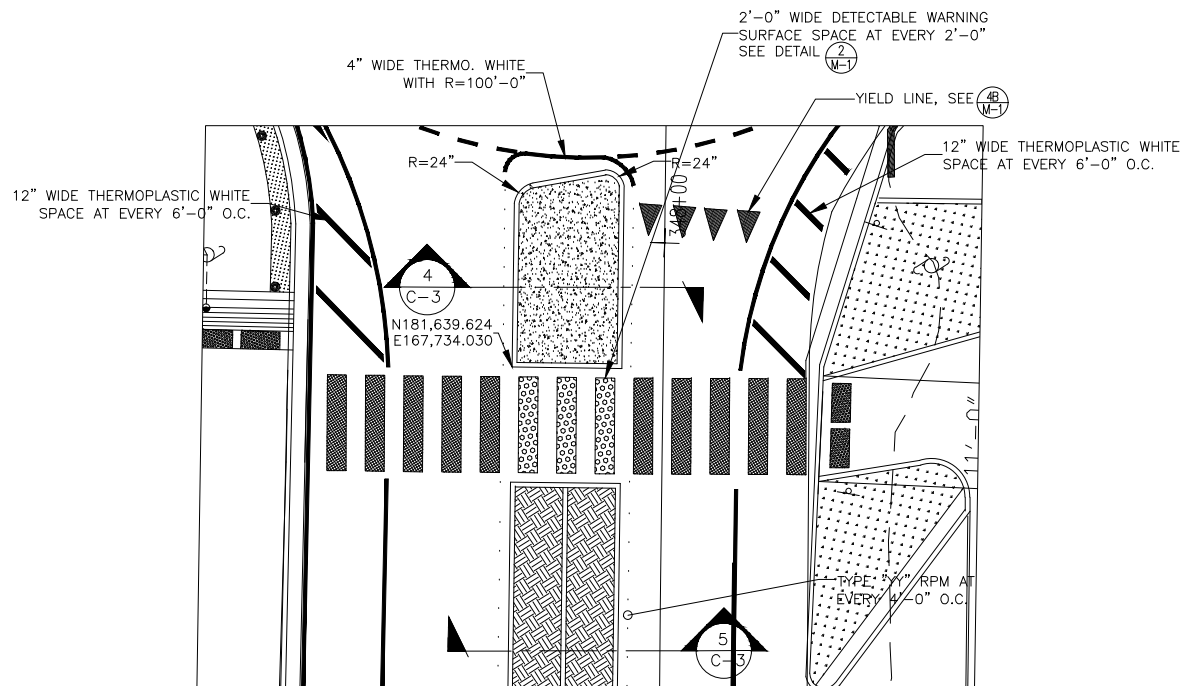
2
C-1

PLAN
SCALE: 1" = 40'

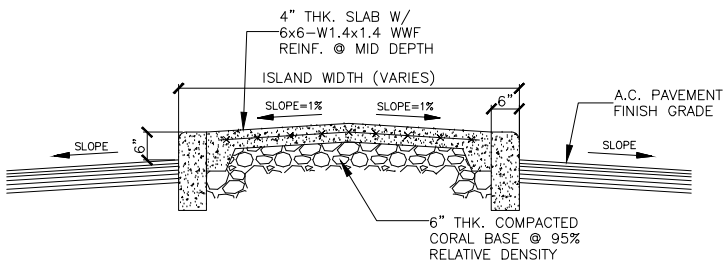
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DRWN	MBR	SUPV	HB		
				CONTENT: PLAN AND PROFILE	
CHIEF HIGHWAY ENGINEER		DATE			
DIR. OF TECH. SERVICES DIV.		DATE			
				C-1.0	
SECRETARY OF PUBLIC WORKS				DATE	
				CODE NO.	
				USING AGENCY DPW	
				DATE AUGUST2023	
				SCALE ASSHOWN	
				SHEET 3 OF 11	



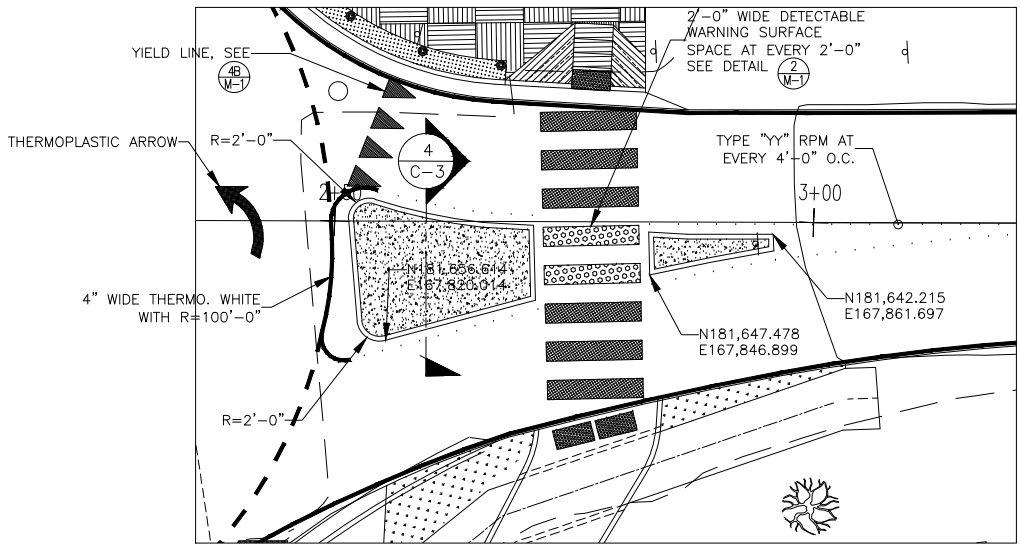
1
C-3
WEST SIDE PEDESTRIAN REFUGE
AREA AT SPLITTER ISLAND
ENLARGED PLAN
SCALE: 1" = 40'



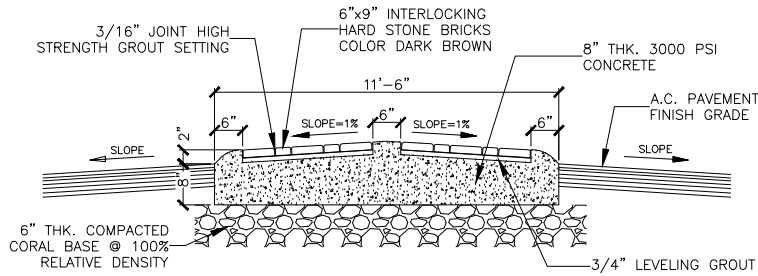
2
C-3
SOUTH BOUND PEDESTRIAN REFUGE
AREA AT SPLITTER ISLAND
ENLARGED PLAN
SCALE: 1" = 40'



4
C-3
SECTION
NOT TO SCALE

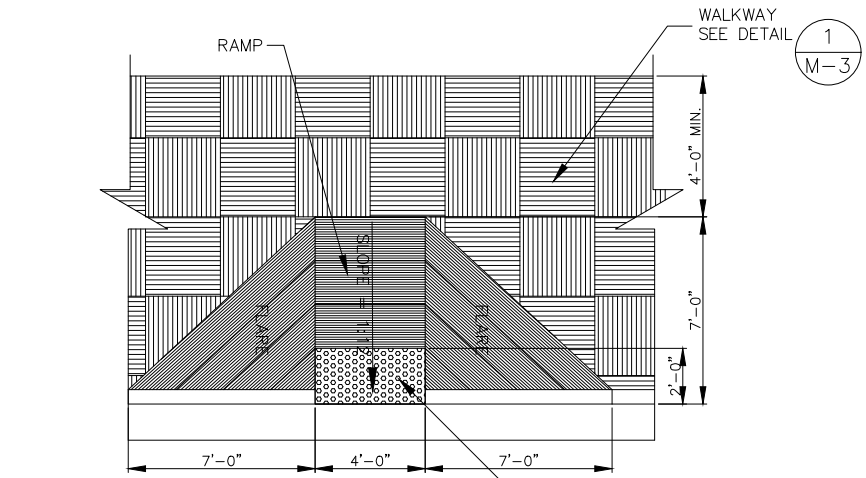


3
C-3
EAST SIDE PEDESTRIAN CROSSING
AREA AT SPLITTER ISLAND
ENLARGED PLAN
SCALE: 1" = 40'

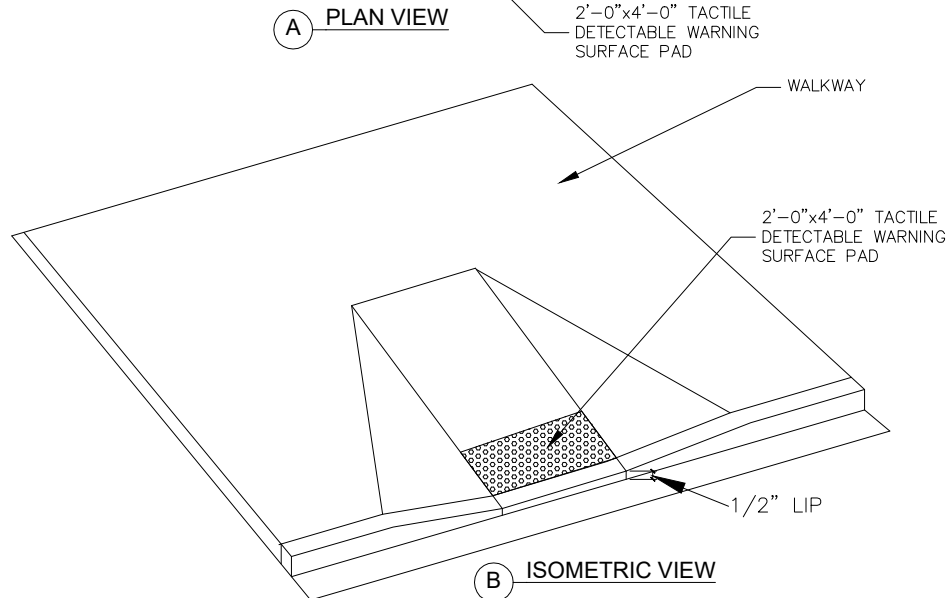


5
C-3
SECTION
NOT TO SCALE

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DRWN	MBR	SUPV	HB	
CHIEF HIGHWAY ENGINEER		DATE		CONTENT: PEDESTRIAN REFUGE AREA AT SPLITTER ISLAND
DIR. OF TECH. SERVICES DIV.		DATE		
SECRETARY OF PUBLIC WORKS		DATE		C-3.0
		CODE NO.		USING AGENCY DPW
				SCALE ASSHOWN
				DATE AUGUST2023
				SHEET 5 OF 11



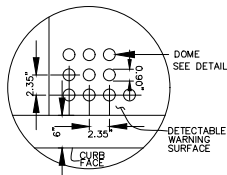
1 PLAN VIEW



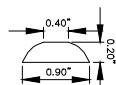
B ISOMETRIC VIEW

1 RAMP DETAIL

M-1 NOT TO SCALE



ENLARGE



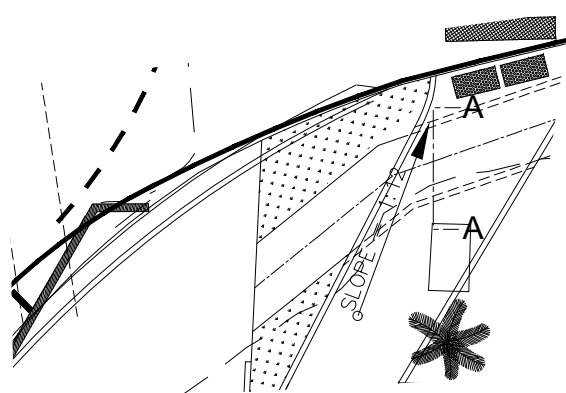
1 DOME SECTION

NOTES:

1. DETECTABLE WARNINGS SHALL BE 24 INCHES IN THE DIRECTION OF TRAVEL AND EXTEND THE FULL WIDTH OF THE CURVE RAMP OR FLUSH SURFACE (DOES NOT INCLUDE FLARES).
2. TRUNCATED DOMES SHALL HAVE A DIAMETER OF 0.90 INCH AT THE BOTTOM, A DIAMETER OF 0.40 INCH AT THE TOP, A HEIGHT OF 0.20 INCH AND A CENTER-TO-CENTER SPACING OF 2.35 INCHES MEASURED ALONG ONE SIDE OF A SQUARE ARRANGEMENT.
3. DOMES SHALL BE ALIGNED ON A SQUARE GRID IN A PREDOMINANT DIRECTION OF TRAVEL TO PERMIT WHEELS TO ROLL BETWEEN THE DOMES.
4. THERE SHALL BE A MINIMUM OF 70 PERCENT CONTRAST IN LIGHT REFLECTANCE BETWEEN THE DETECTABLE WARNING AND AN ADJOINING SURFACE, OR THE DETECTABLE WARNING SHALL BE "SAFETY YELLOW".
5. THE MATERIAL USED TO PROVIDE VISUAL CONTRAST SHALL BE INTEGRAL PART OF THE DETECTABLE WARNING SURFACE.
6. THE DETECTABLE WARNING SHALL BE LOCATED SO THAT THE EDGE NEAREST THE CURB LINE OR OTHER POTENTIAL HAZARD IS 6 TO 8 INCHES FROM THE CURB LINE.

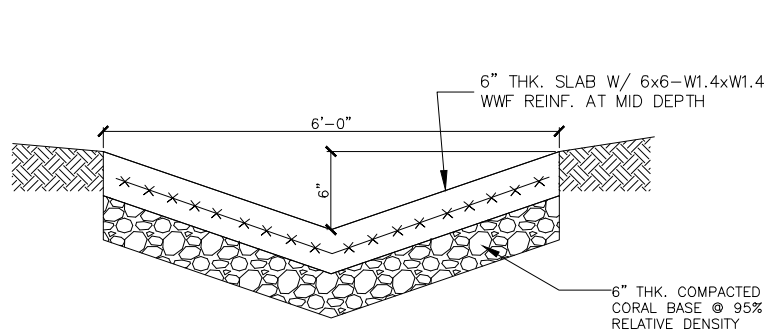
2 DETECTABLE WARNING DETAILS

M-1 NOT TO SCALE



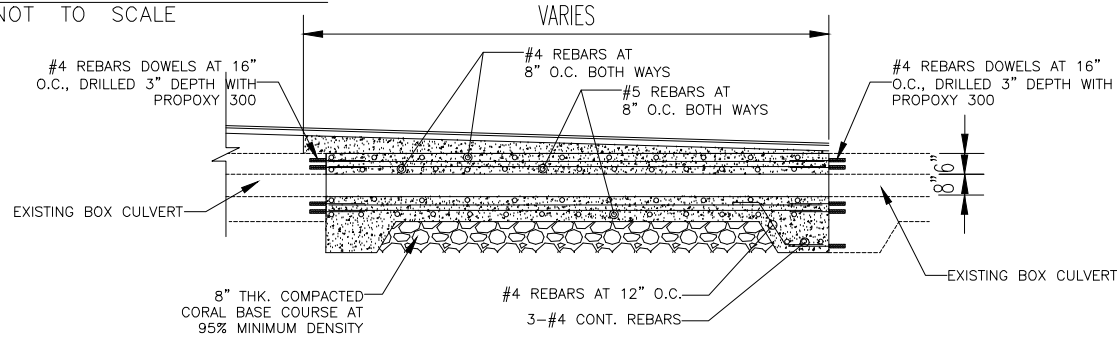
3 RAMP & SWALE PLAN

M-1 NOT TO SCALE



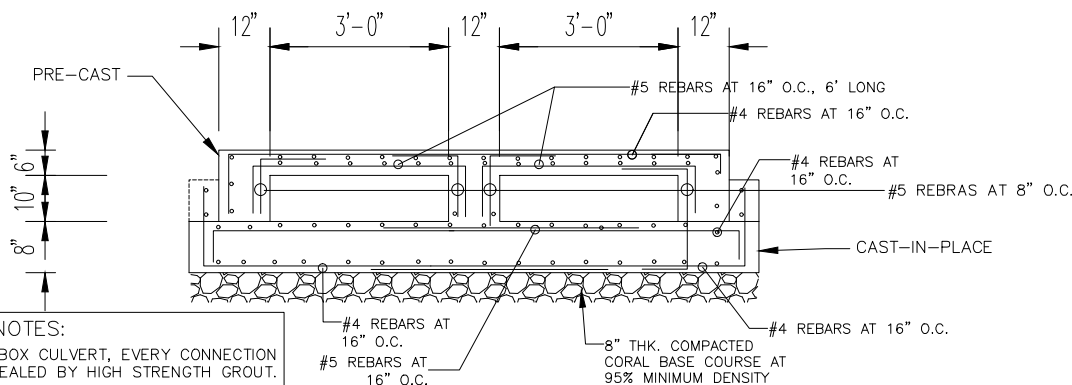
4 CONC. SWALE

NOT TO SCALE



5 SECTION

M-1 NOT TO SCALE

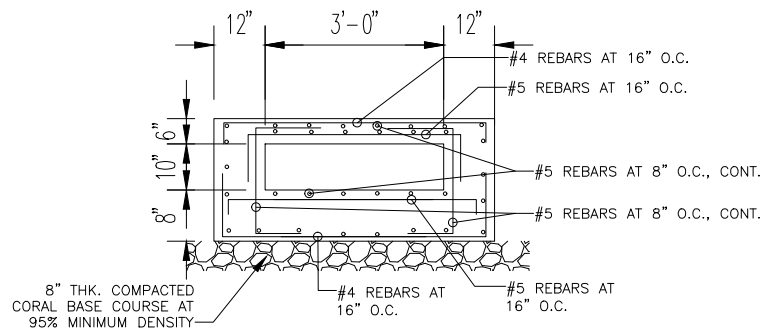


PRE-CAST NOTES:

1. PRE-CAST BOX CULVERT, EVERY CONNECTION SHALL BE SEALED BY HIGH STRENGTH GROUT.

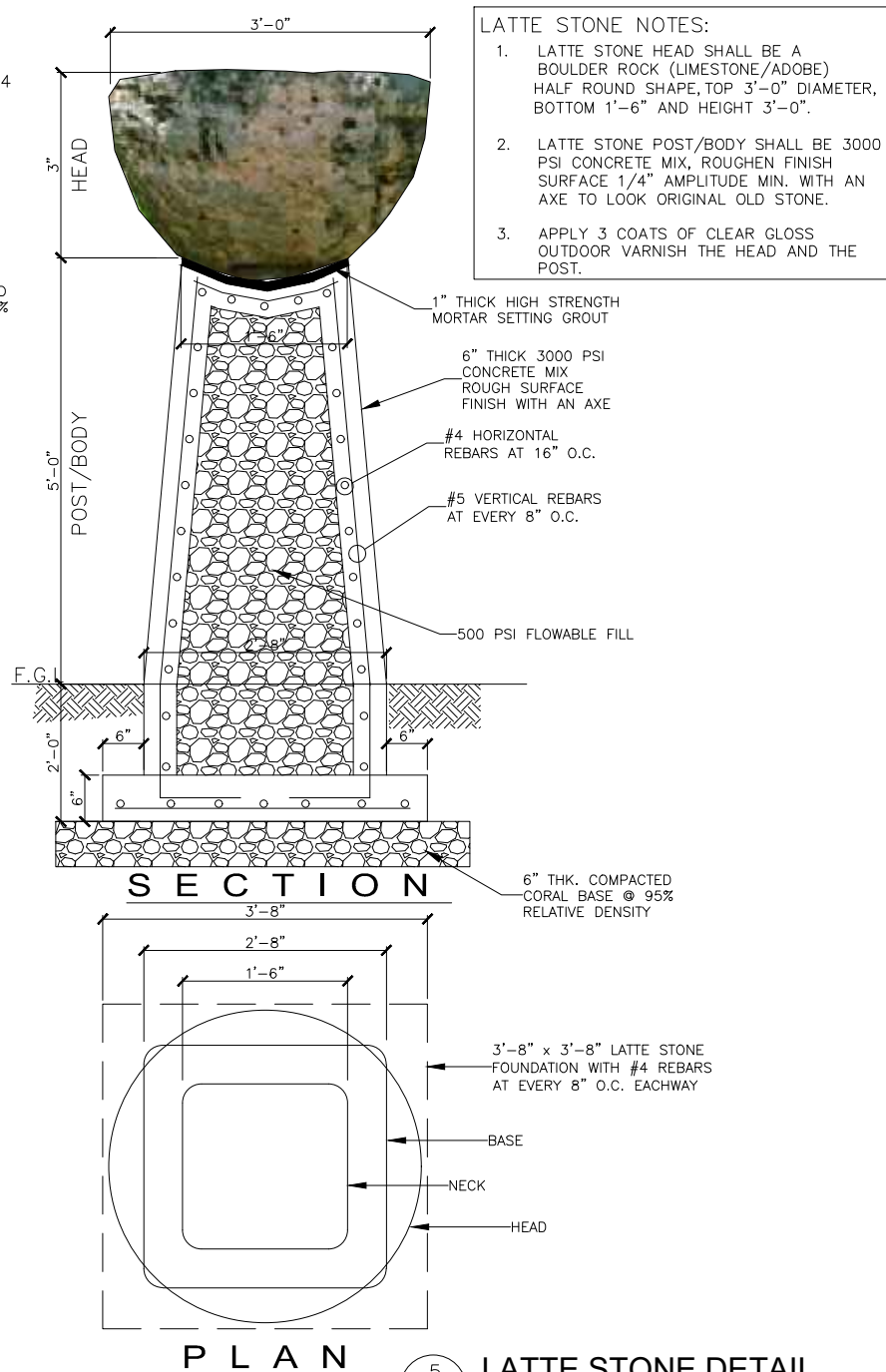
6 SECTION

M-1 NOT TO SCALE



7 CONC. BOX CULVERT

M-1 NOT TO SCALE



LATTE STONE NOTES:

1. LATTE STONE HEAD SHALL BE A BOULDER ROCK (LIMESTONE/ADOBE) HALF ROUND SHAPE, TOP 3'-0" DIAMETER, BOTTOM 1'-6" AND HEIGHT 3'-0".
2. LATTE STONE POST/BODY SHALL BE 3000 PSI CONCRETE MIX, ROUGHEN FINISH SURFACE 1/4" AMPLITUDE MIN. WITH AN AXE TO LOOK ORIGINAL OLD STONE.
3. APPLY 3 COATS OF CLEAR GLOSS OUTDOOR VARNISH THE HEAD AND THE POST.

5 LATTE STONE DETAIL

M-1 NOT TO SCALE

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DSGN	HB	CHKD	HB	PROJECT TITLE:
DRWN	MBR	SUPV	HB	Beach Road & Micro Beach Road
CHIEF HIGHWAY ENGINEER				INTERSECTION IMPROVEMENT (ROUNDBOUT)
DIR. OF TECH. SERVICES DIV.				CONTENT:
SECRETARY OF PUBLIC WORKS				MISCELLANEOUS DETAILS
M-1.0				USING AGENCY DPW
SCALE				ASSHOWN
DATE				AUGUST 2023
SHEET				6 OF 11

The plan view shows a bridge structure with a central span of 24'-3". The bridge is 5'-0" wide at the ends and 4'-0" wide at the center. The bridge is supported by two abutments, labeled A and B. The abutment on the left is labeled A, and the abutment on the right is labeled B. The bridge is shown with a central span of 24'-3" and a total width of 5'-0" at the ends and 4'-0" at the center. The bridge is shown with a central span of 24'-3" and a total width of 5'-0" at the ends and 4'-0" at the center. The bridge is shown with a central span of 24'-3" and a total width of 5'-0" at the ends and 4'-0" at the center.

PLAN

The plan view shows a rectangular building layout with overall dimensions of 19'-3" in width and 4'-3" in depth. The layout includes a central corridor (C) and two rooms, each measuring 2'-0" in width. The rooms are located at the top left and top right corners of the building. The corridor runs horizontally through the center, with a vertical section on the right side. The rooms are defined by solid lines, and the corridor is defined by dashed lines.

3-#4 CONT. REBARS

2'-0" 12"

#4 REBARS AT EVERY 8" O.C.

#3 TIE REBARS AT EVERY 8" O.C.

#4 VERT. REBARS EACH FACE AT EVERY 16" O.C.

12" THICK 3000 PSI CONCRETE MIX

N.G.L.

3-#4 CONT. REBARS

#4 REBARS AT EVERY 8" O.C.

6" THICK BASE COURSE COMPACTED AT 95% MDD

SECTION C-C

4'-0"

8'-3"

6" THICK 3000 PSI
CONCRETE MIX FINISH WITH
MARBLES TILES

#4 HORIZONTAL
REBARS AT 16" O.C.

#5 VERTICAL REBARS
AT EVERY 8" O.C.

6" THICK 3000 PSI
CONCRETE MIX FINISH WITH
MARBLES TILES

SELECTED BACKFILL

0'-6"

3'-0"

0'-6"

N.G.L.

A plan view diagram showing a proposed walkway and an existing wall. The walkway is a straight line segment labeled 'WALKWAY' with a width of '2'-0"'. It is shown crossing an 'EXISTING WALL' which is represented by a line with diagonal hatching. The walkway is flanked by areas with diagonal hatching, suggesting existing or proposed paving or landscaping. The diagram is labeled 'PLAN' at the bottom.

5" THK. 3000 PSI CONC. MIX

3" DEPTH WITH PROPOXY 300

EXISTING CONC. WALL

2'-0"

5" THK. 3000 PSI CONC. MIX

R = 3"

6" THK. 3000 PSI CONC. MIX WITH #4 VERTICAL BARS AT EVERY 12" O.C. WITH 4-#3 TIE BARS

SELECTED BACKFILL

1'-0"

1'-0"

SECTION D-D

6" THK. COMPACTED CORAL BASE @ 95% RELATIVE DENSITY

1. MARBLES
SUBMIT S

2. CONTRACT
WITH NA
(NPS) P
DEMOLIT
AMP EN

CK 3000 PSI
RETE MIX FINISH WITH
ES TILES

ITAL
16" O.C.

REBARS
O.C.

3000 PSI
E MIX FINISH WITH
TILES

ACKFILL

2'-0"

5'-3"

2'-0"

2'-0"

6" THICK 3000 PSI
CONCRETE MIX FINISH WITH
MARBLES TILES

8" THICK 3000 PSI
CONCRETE MIX FINISH
WITH MARBLES TILES

#4 HORIZONTAL
REBARS AT 8" O.C.

#5 VERTICAL REBARS
AT EVERY 8" O.C.

#4 VERT./HORIZONTAL
REBARS AT 8" O.C.

6" THICK 3000 PSI
CONCRETE MIX FINISH WITH
MARBLES TILES

SELECTED BACKFILL

N.G.L.

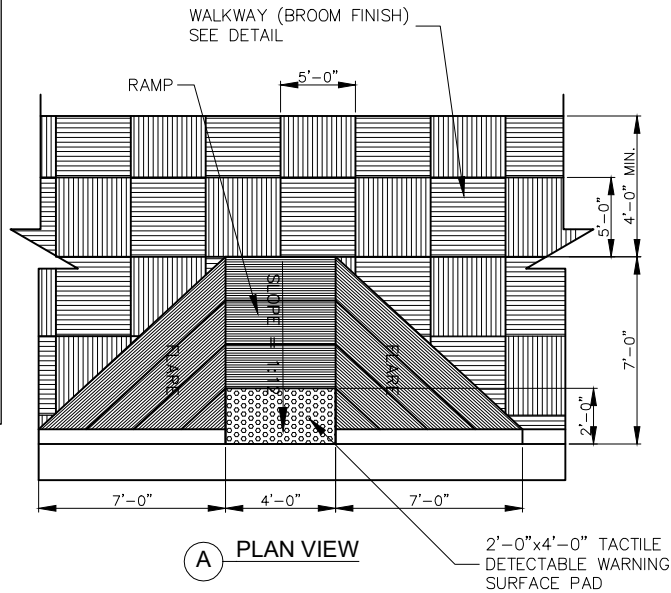
#5 REBARS AT E.W.
EVERY 8" O.C.

6" THICK BASE COURSE
COMPACTED AT 95% MDD

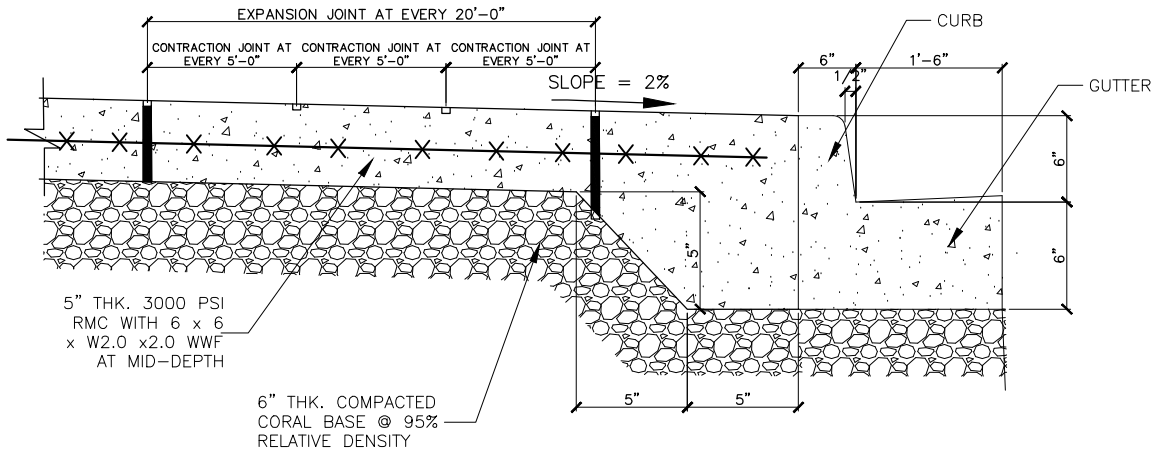
- NOTES:
1. MARBLES TILES, CONTRACTOR SHALL SUBMIT SAMPLE FOR APPROVAL.
 2. CONTRACTOR SHALL COORDINATE WITH NATIONAL PARK SERVICES (NPS) PERSONNEL PRIOR THE DEMOLITION & CONSTRUCTION OF AMP ENTRANCE SIGN BOARD.

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CHIEF HIGHWAY ENGINEER		DATE		CONTENT: AMP ENTRANCE SIGN DET., CONC. BENCH DETAIL CONCRETE STRUCTURE DETAIL	
DIR. OF TECH. SERVICES DIV.		DATE			
SECRETARY OF PUBLIC WORKS		DATE		M-2.0 <div> <div>USING AGENCY</div> <div>DPW</div> </div> <div> <div>SCALE</div> <div>ASSHOWN</div> </div>	<div> <div>DATE</div> <div>AUGUST2023</div> </div> <div> <div>SHEET</div> <div>7 OF 11</div> </div>

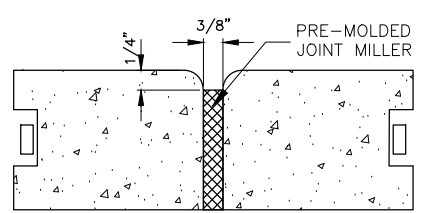
- SIDEWALK/WALKWAY NOTES:
- 1. ALL NEW SIDEWALKS/WALKWAYS SHALL PROVIDE A MINIMUM CLEAR WIDTH OF 4'-0" (EXCLUDING CURB) FOR PEDESTRIAN CIRCULATION.
 - 2. WHERE POSSIBLE OBSTRUCTION SUCH AS UTILITY POLES, FIRE HYDRANT, LIGHT AND SIGNAL POLES, SIGN POSTS, ETC. SHALL BE LOCATED CLEAR OF THE SIDEWALK.
 - 3. WHERE POSSIBLE PULL BOXES, VALVE COVERS, MANHOLES COVERS, ETC. SHALL BE INSTALLED OUTSIDE OF THE SIDEWALK AREA. WHERE INSTALLED WITHIN THE SIDEWALK, SURFACES MUST BE FIRM, SLIP RESISTANT AND FLUSH WITH THE SIDEWALK SURFACE.
 - 4. DRESSING BACK OF SIDEWALK SHALL CONSIST OF CLEARING, GRUBBING, RESHAPING AND COMPACTING THE AREA ADJACENT TO THE SIDEWALK WITH SUITABLE MATERIAL AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE SIDEWALK.



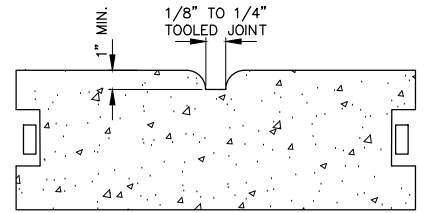
A PLAN VIEW



B TYPICAL SECTION

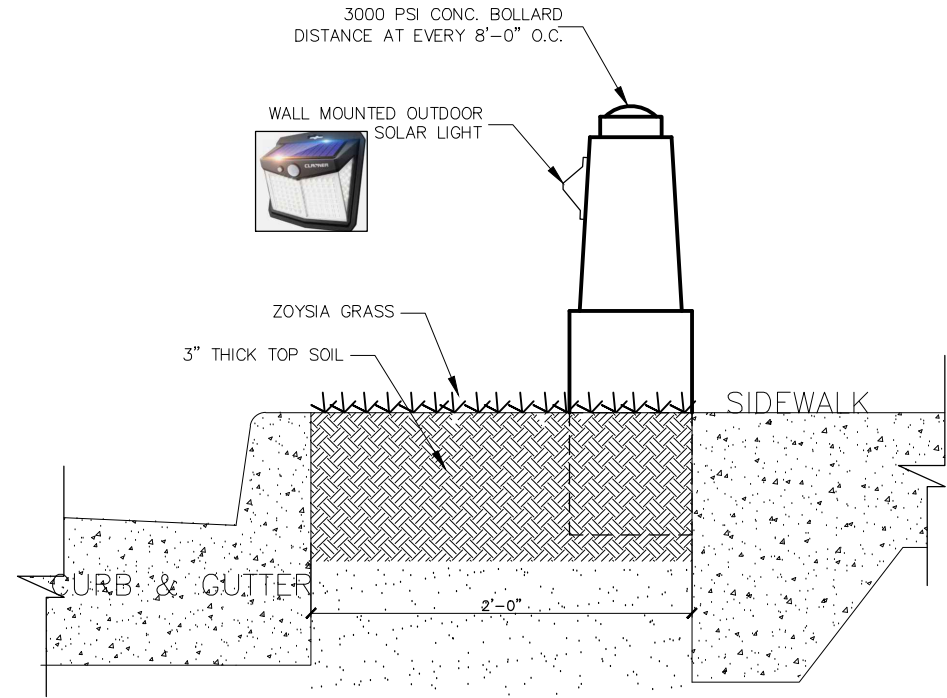


C EXPANSION JOINT

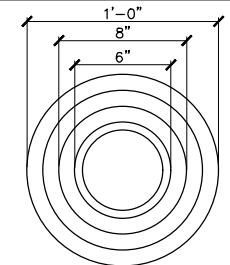


D CONTRACTION JOINT

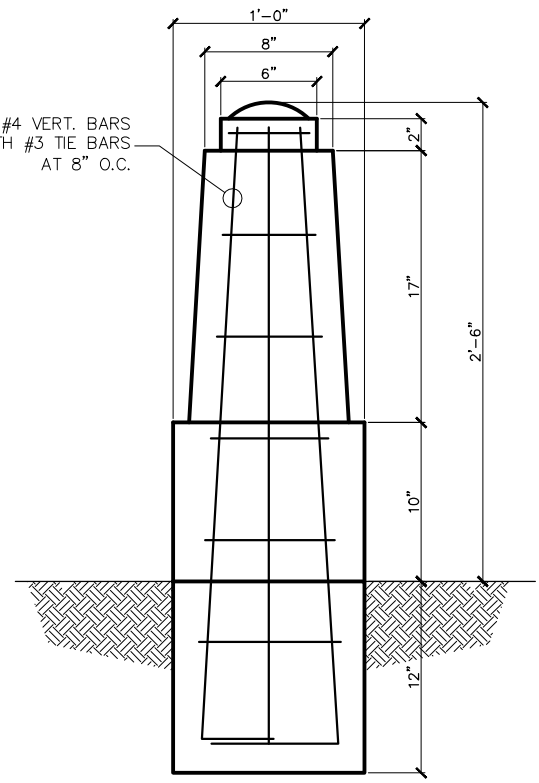
1 SIDE WALK / WALKWAY DETAILS
M-3 NOT TO SCALE



A ELEVATION VIEW



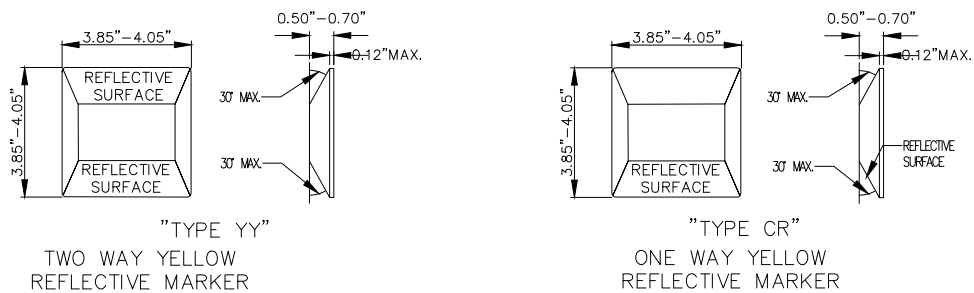
B. PLAN VIEW



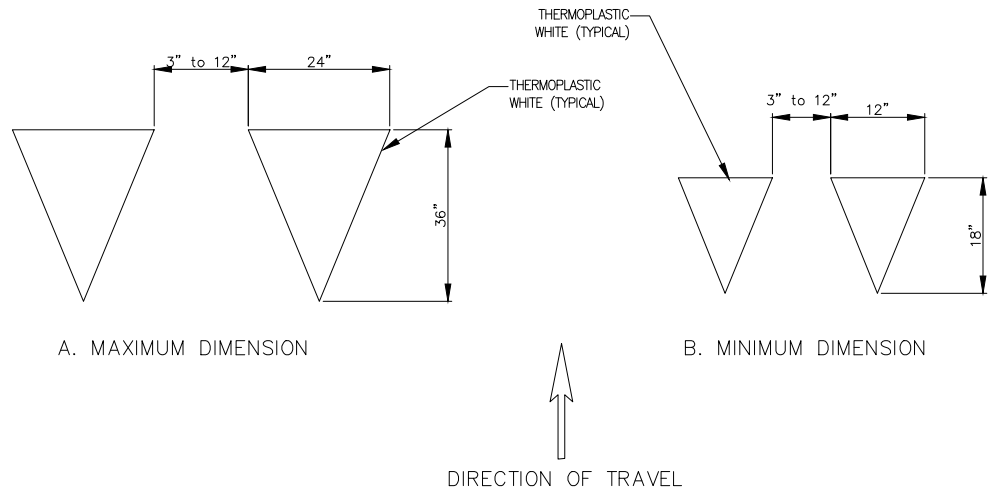
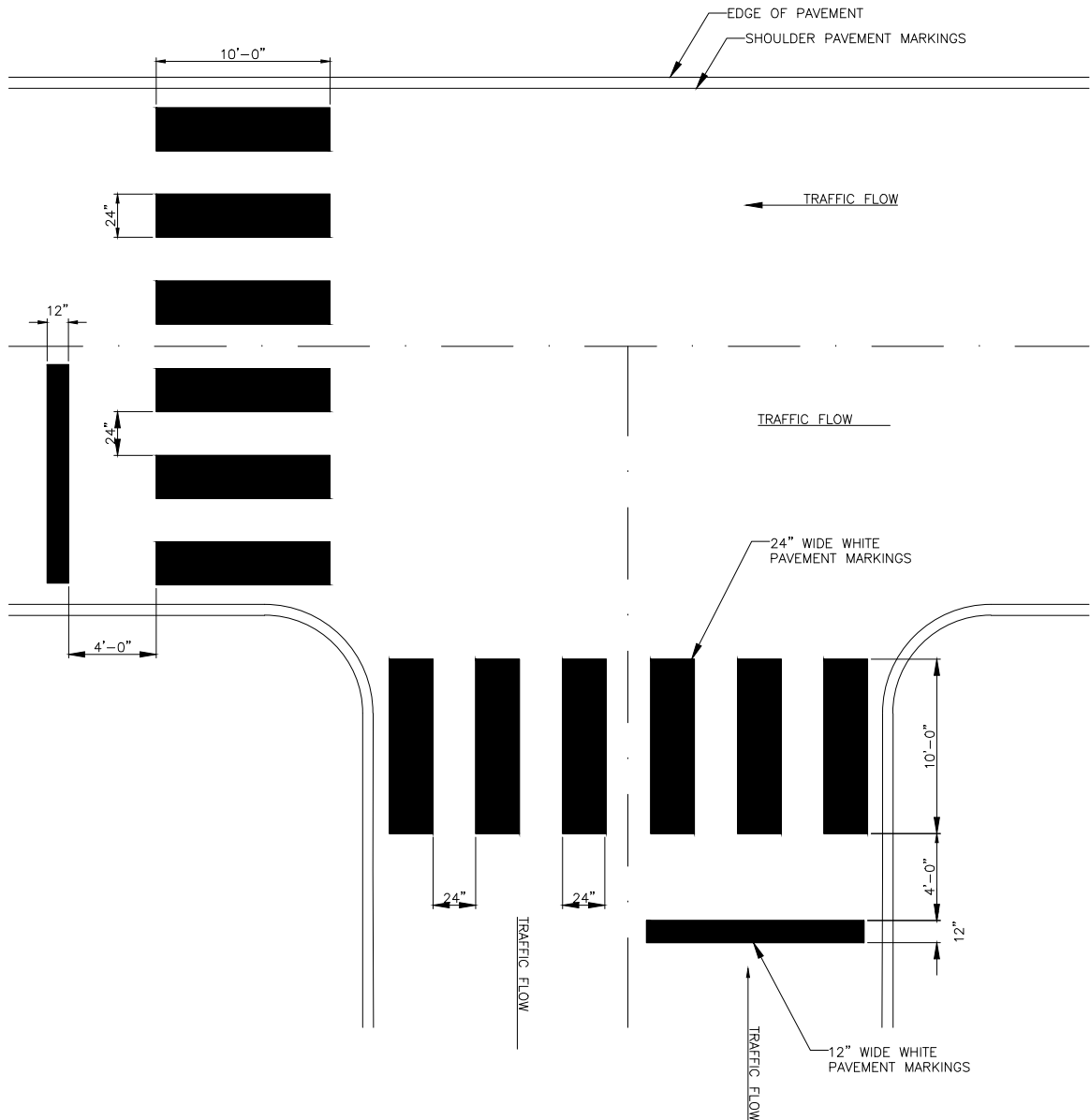
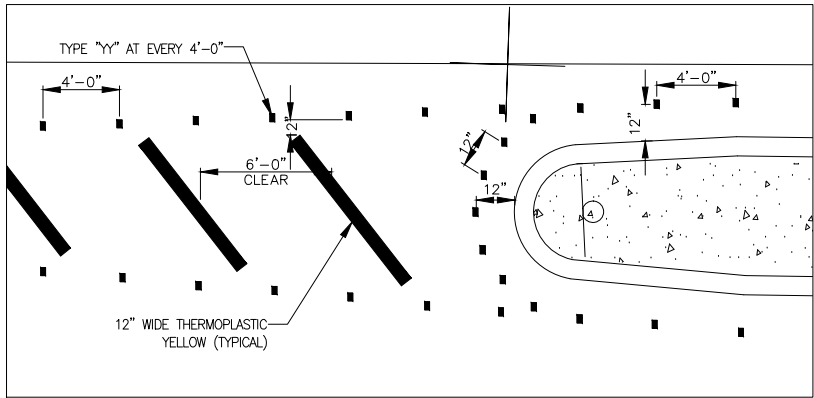
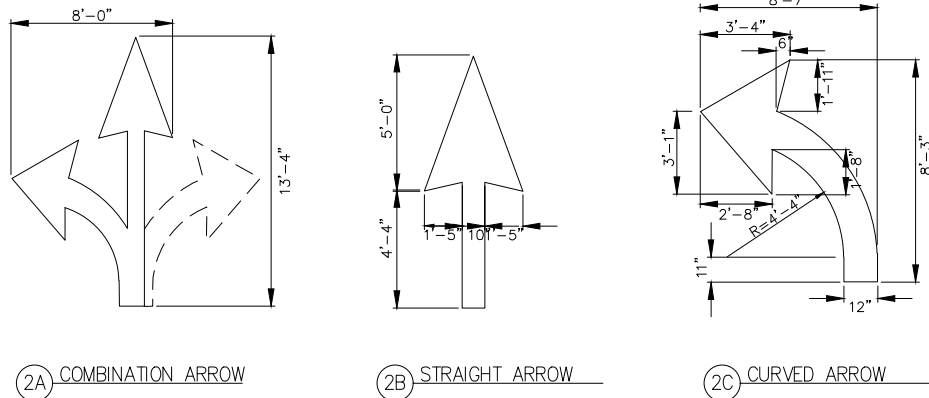
C. SECTION DETAIL

2 CONCRETE BOLLARD DETAILS
M-3 NOT TO SCALE

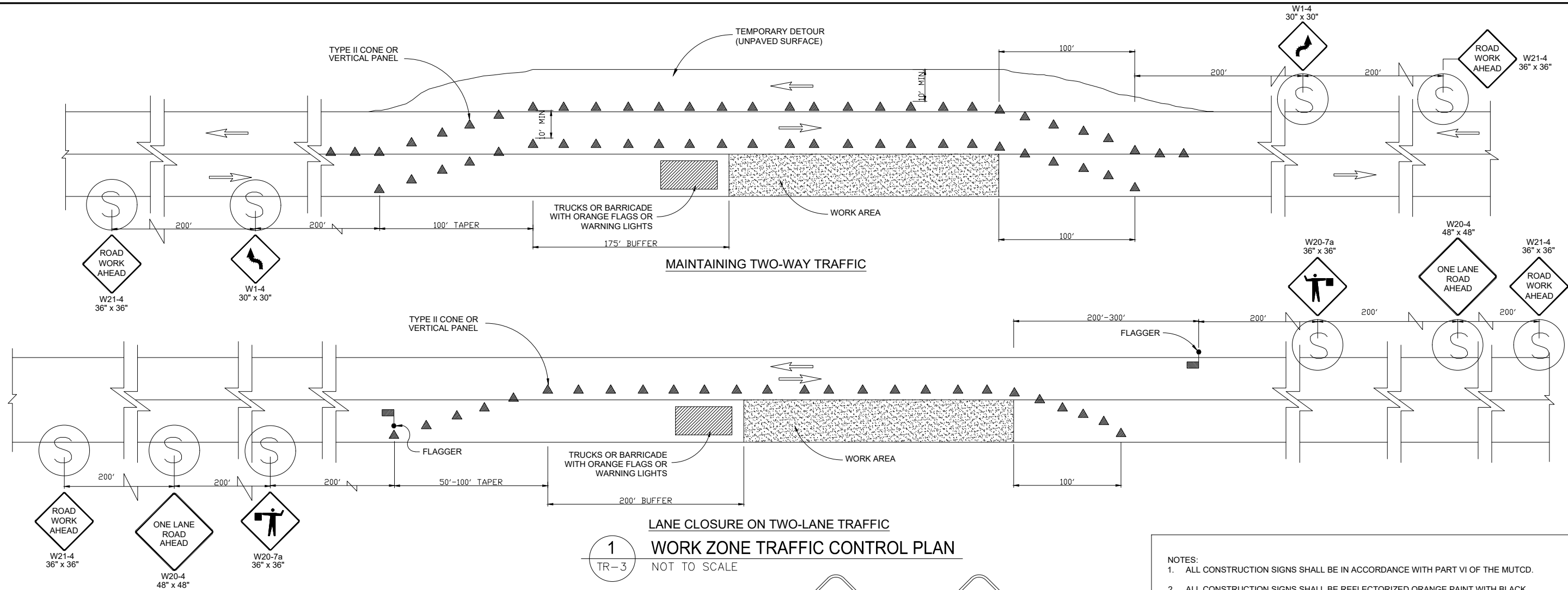
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DEPARTMENT OF PUBLIC WORKS			TECHNICAL SERVICES DIVISION	
DSGN	HB	CHKD	HB	PROJECT TITLE:
DRWN	MBR	SUPV	HB	Beach Road & Micro Beach Road INTERSECTION IMPROVEMENT (ROUNDBOUT)
CHIEF HIGHWAY ENGINEER				CONTENT:
DATE				SIDEWALK/WALKWAY & CONC. BOLLARD DETAILS
DIR. OF TECH. SERVICES DIV.				DATE
SECRETARY OF PUBLIC WORKS				DATE
M-3.0		USING AGENCY	DPW	DATE AUGUST2023
CODE NO.		SCALE	ASSHOWN	SHEET 8 OF 11



GENERAL NOTES:
1. PAVEMENT MARKING AND STRIPING SHALL CONFORM TO THE LATEST "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAY", AND AS AMENDED.
2. LAYOUT AND INSTALLATION OF PAVEMENT MARKING AND STRIPING SHALL BE DONE BY THE CONTRACTOR. THE CONTRACTOR SHALL CHECK THE LAYOUTS WITH THE ENGINEER PRIOR TO PERFORMING THE WORK.



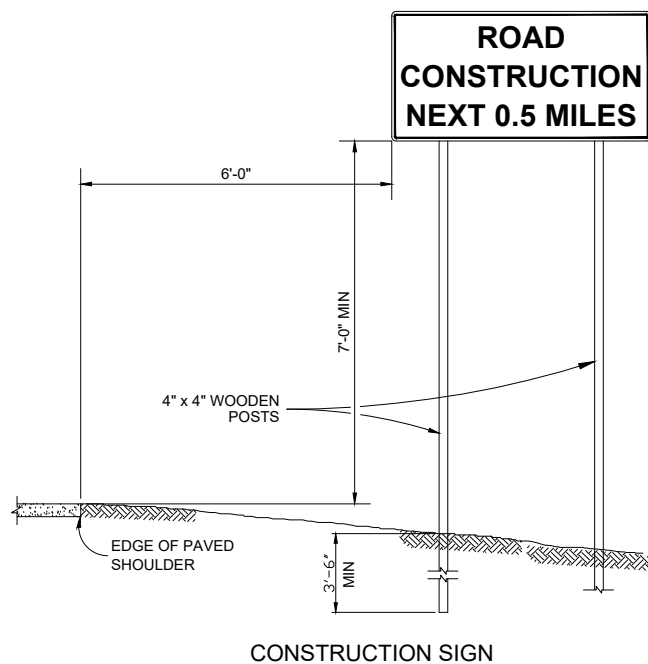
NO.	DATE	DESCRIPTION		BY APPR.
COMMONWEALTH OF THE NORTHERN MARIANA ISLANDS				
SAIPAN				MP 96950
DEPARTMENT OF PUBLIC WORKS		TECHNICAL SERVICES DIVISION		
DSGN	HB	CHKD	HB	PROJECT TITLE: Beach Road & Micro Beach Road INTERSECTION IMPROVEMENT (ROUNDBOUT)
DRWN	MBR	SUPV	HB	
CHIEF HIGHWAY ENGINEER _____ DATE _____				CONTENT: PAVEMENT MARKING DETAILS
DIR. OF TECH. SERVICES DIV. _____ DATE _____				
SECRETARY OF PUBLIC WORKS _____ DATE _____				
TR-2.0		USING AGENCY DPW	DATE AUGUST2023	
CODE NO.		SCALE ASSHOWN	SHEET 10 OF 11	



1
TR-3
NOT TO SCALE

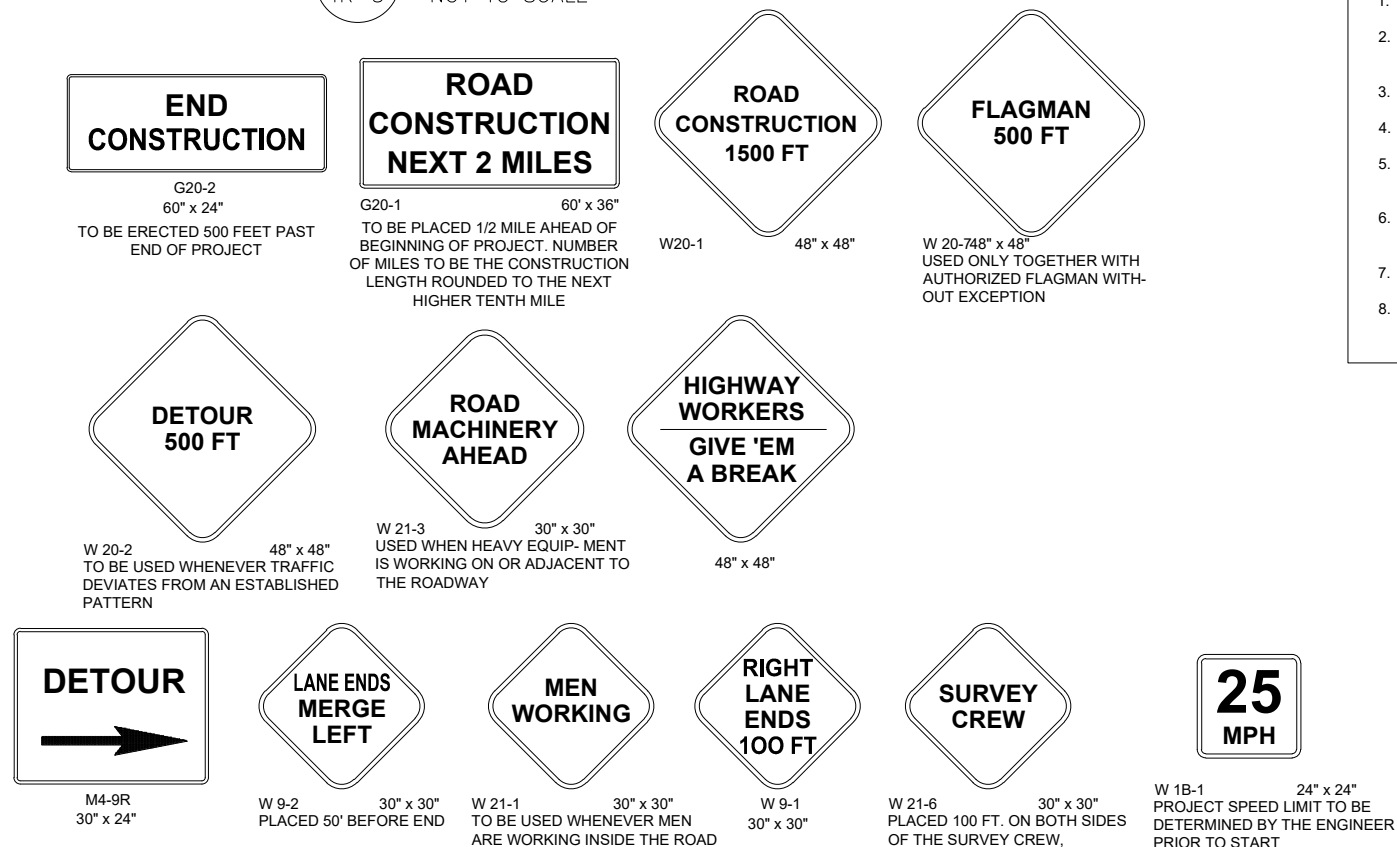
WORK ZONE TRAFFIC CONTROL PLAN

- NOTES:
- ALL CONSTRUCTION SIGNS SHALL BE IN ACCORDANCE WITH PART VI OF THE MUTCD.
 - ALL CONSTRUCTION SIGNS SHALL BE REFLECTORIZED ORANGE PAINT WITH BLACK LETTERS AND BORDER (SECTION 6B-3)
 - BARRICADES AND DRUMS SHALL BE PAINTED AND PLACED ACCORDANCE WITH SECTION 6-6.
 - SIGNS SHALL BE REMOVED OR COVERED WHEN NOT IN ACTUAL USE.
 - FOR OPERATIONS OF 60 MINUTES OR LESS, THE "ROAD WORK AHEAD" SIGN MAY BE OMITTED.
 - SIGNS MAY BE MOUNTED ON PORTABLE SUPPORTS, ON A SINGLE POST, OR FOR SIGNS HAVING AN AREA LARGER THAN 10 SQ. FT. ON TWO POSTS FOR TEMPORARY CONDITIONS.
 - ONE LANE ALL DIRECTIONS SHALL BE OPEN FOR LOCAL TRAFFIC.
 - SOUTH BOUND TRAFFIC SHALL BE RE-ROUTED TO ROUTE 30 (CHALAN PALE ARNOLD) AND NORTHBOUND TO ROUTE 308 (GARAPAN ST.) TO MINIMIZE IMPACT DURING CONSTRUCTION



2
TR-3
NOT TO SCALE

SIGN LOCATION & POST



NOTE:
SIGN COLORS SHALL BE BASED ON THE LATEST MUTCD RELATING TO CLASS OF DEVICES.

3
TR-3
NOT TO SCALE

TEMPORARY ROAD TRAFFIC SIGNS

NO.	DATE	DESCRIPTION	BY	APPR.	
COMMONWEALTH OF THE NORTHERN MARIANA ISLANDS					
SAIPAN		MP 96950			
DEPARTMENT OF PUBLIC WORKS		TECHNICAL SERVICES DIVISION			
DSGN		CHKD	PROJECT TITLE: Beach Road & Micro Beach Road INTERSECTION IMPROVEMENT (ROUNDBOUT)		
DRWN		SUPV			
CHIEF HIGHWAY ENGINEER		DATE	CONTENT: TEMPORARY TRAFFIC CONTROL PLAN		
DIR. OF TECH. SERVICES DIV.		DATE			
SECRETARY OF PUBLIC WORKS		DATE	TR-3.0	USING AGENCY DPW	DATE AUGUST2023
		CODE NO.	SCALE	ASSHOWN	SHEET 11 OF 11