

# International Boundary and Water Commission

United States and Mexico

United States Section

4191 N. Mesa, El Paso, TX 79902



## Reseeding USIBWC Property

### USIBWC Directive SD.II.01031-M-1 Appendix G

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#### 1. Project Seed Mixes.

- A. All USIBWC-controlled property disturbed by construction activities shall be revegetated. Revegetation requires seeding and establishing vegetation growth through watering and maintenance.
- B. Levee side slopes and area within fifteen (15) feet of the levee toe shall be seeded with grasses only.
- C. All plants and seeds used shall be native to the United States. Plant varieties are not required to be native to the project area although that is preferred. Seeds shall be certified weed free and state seed laws shall be adhered to.
- D. Executive Order (EO) 13751 establishes policy that the Government will "prevent the introduction, establishment, and spread of invasive species, as well as to eradicate and control populations of invasive species." EO 13112 shall be followed, especially Sec 2.(b) which notes that Federal agencies shall "not authorize, fund, or carry out actions that it believes are likely to cause or promote the introduction or spread of invasive species."
- E. Only fertilizers, herbicides, other materials noted as safe for use near lakes and in aquatic environments shall be used.
- F. Herbicides used must be federally and locally registered and must be applied in accordance with authorized registered uses, directions on label, and other federal or state policies and requirements. Seeded species shall have three (3) to five (5) leaves per plant before herbicides are applied. Any herbicides used shall be certified as safe for use near lakes and in aquatic environments.
- G. Mulch materials shall be free of disease, pesticides, chemicals, noxious weed seeds and/or parts, and other pests and pathogens.

## 2. Seeding.

- A. Use the seed mix identified in Table 1 as applicable to the county where your work is located.

**Table 1 Project Locations**

State	Counties	Tables
CA	San Diego, Imperial †	Table 2
AZ	Yuma †, Pima, Santa Cruz, Cochise	Table 3
NM	Hidalgo, Luna, Doña Ana Δ	Table 3
NM	Doña Ana Δ, Sierra	Table 4
TX	El Paso, Hudspeth, Presidio, Jeff Davis, Brewster, Terrell, Val Verde, Kinney	Table 4
TX	Maverick, Webb, Zapata, Starr, Hidalgo, Cameron	Table 5

† Work along the Colorado River may use plants from Table 2 or Table 3 as appropriate to the area being reseeded.

Δ Doña Ana County west of Santa Teresa/Anapra area (i.e. away from the Rio Grande) should use Table 3.

- B. When work encompasses levees (e.g. Tijuana River, Colorado River, and Rio Grande) at least five (5) of the grasses listed in the applicable tables shall be used. Only grasses are allowed on levees and within fifteen (15) feet of the levee toe.
- C. Work on the river floodplains, along the international border, or other USIBWC property, not within fifteen (15) feet of a levee shall be revegetated with at least five (5) grasses and at least eight (8) forbs/shrubs from the applicable tables.
- D. While all plants listed in these tables are native, choose specific plants whose adaptations to soil, salinity, moisture, and location indicate that they will be successful in growing at your worksite.

## 3. Filler Grasses and Cover Crops.

- A. Only grasses shall be used as cover crops.
- B. Cover crops shall be native to area or shall be sterile.

## 4. Vegetation Maintenance Period.

- A. Immediately after seeding has been sowed, begin to provide vegetation maintenance to include, but not limited to, mowing, edging, over-seeding, aeration, fertilizing, watering, weeding, and pruning for all newly seeded materials and at all areas inside or outside the limits of the construction that were disturbed by your operations.
- B. Maintain the vegetated areas including all fertilizing, watering, mulches, and weed control until at least seventy percent (70%) of the prework vegetative coverage is established.
- C. Slope Erosion Control Maintenance. Provide slope erosion control maintenance to prevent undermining of all slopes in newly seeded areas. Maintenance tasks include immediate repairs to weak spots where seeding will be installed, in order to intercept and direct water flow to prevent development of large gullies and slope erosion. Eroded seeded areas shall be backfilled with amended topsoil and replanted with the same plant species.
- D. Water Restriction. Abide by state, local, or other water conservation regulations in force during the vegetation establishment period. Additionally, no water from rivers or reservoirs shall be used for vegetation maintenance activities unless a valid state water right or license is provided.

5. **Seed Mixes.** See Project Locations table to determine which table applies to your location.

**Table 2 California Project Areas**

California Project Areas				
Type	Common Name	Scientific Name	Min Seed Rate Lbs Seed/Acre*	Rec Seed Rate Lbs Seed/Acre**
Grass	Alkali muhly	<i>Muhlenbergia asperifolia</i>	0.4	12.0
Grass	Alkali sacaton	<i>Sporobolus airoides</i>	0.5	2.0
Grass	Arizona cottontop	<i>Digitaria californica</i>	1.4	2.0
Grass	Beardless wildrye	<i>Leymus triticoides</i>	5.1	15.0
Grass	Big (Giant) sacaton	<i>Sporobolus wrightii</i>	0.4	1.0
Grass	Bottlebrush squirreltail	<i>Elymus elymoides</i>	4.5	7.0
Grass	Cane bluestem	<i>Bothriochloa barbinodis</i>	1.7	2.0
Grass	Indian ricegrass	<i>Oryzopsis hymenoides</i>	5.0	6.0
Grass	Inland saltgrass	<i>Distichlis stricta</i>	1.7	4.0
Grass	Little bluestem	<i>Schizachyrium scoparium</i>	3.4	4.0
Grass	Needle grama	<i>Bouteloua aristidoides</i>	2.1	5.0
Grass	Plains lovegrass	<i>Eragrostis intermedia</i>	0.3	2.0
Grass	Purple threeawn	<i>Aristida purpurea</i>	3.5	6.0
Grass	Sand dropseed	<i>Sporobolus cryptandrus</i>	0.2	1.0
Grass	Sideoats grama	<i>Bouteloua curtipendula</i>	4.6	5.0
Forb	Bitter rubberweed	<i>Hymenoxys oderata</i>	0.1	---
Forb	Bristly nama/Sand bells	<i>Nama hispidum</i>	0.1	---
Shrub	Burro weed	<i>Ambrosia dumosa</i>	0.1	---
Shrub	California buckwheat	<i>Eriogonum fasciculatum</i>	0.2	---
Forb	California poppy	<i>Eschscholzia californica</i>	0.4	---
Forb	Chia sage	<i>Salvia columbariae</i>	0.1	---
Shrub	Desert brickellbush	<i>Brickellia desertorum</i>	0.1	---
Forb	Desert globemallow	<i>Sphaeralcea ambigua</i>	0.3	---
Forb	Desert marigold	<i>Baileya multiradiata</i>	0.2	---
Forb	Desert twinbugs	<i>Dicoria canescens</i>	0.1	---
Forb	Evening primrose	<i>Oenothera sp.</i>	0.1	---
Forb	Fall tansyaster	<i>Machaeranthera asteroides</i>	0.2	---
Shrub	Four-wing saltbush	<i>Atriplex canescens</i>	0.4	---
Forb	Fringed spineflower	<i>Chorizanthe fimbriata</i>	0.1	---
Forb	Hairy sand verbena	<i>Abronia villosa</i>	0.1	---
Shrub	Mulefat (seep willow)	<i>Baccharis salicifolia</i>	0.2	---
Forb	Pebble pincushion	<i>Chaenactis carphoclinia</i>	0.1	---
Forb	Penstemon	<i>Penstemon sp.</i>	0.3	---
Forb	Pink evening primrose	<i>Oenothera speciosa</i>	0.2	---
Forb	Pink sand verbena	<i>Abronia umbellata</i>	0.1	---
Forb	Purple prairie verbena	<i>Glandularia bipinnatifida</i>	0.1	---
Forb	San Felipe dogweed	<i>Adenophyllum porophylloides</i>	0.1	---
Forb	Sanddune wallflower	<i>Erysimum capitatum</i>	0.1	---
Shrub	Shrubby brickellbush	<i>Brickellia frutescens</i>	0.1	---
Forb	Trailing windmills	<i>Allionia incarnata</i>	0.1	---

California Project Areas				
Type	Common Name	Scientific Name	Min Seed Rate Lbs Seed/Acre*	Rec Seed Rate Lbs Seed/Acre**
Forb	Wild four o'clock	<i>Mirabilis multiflora</i>	0.3	---
Forb	Woodyaster	<i>Xylorhiza sp.</i>	0.3	---

**Table 3 Arizona and New Mexico Land Boundary Areas**

Arizona and New Mexico Land Boundary Areas				
Type	Common Name	Scientific Name	Min Seed Rate Lbs Seed/Acre*	Rec Seed Rate Lbs Seed/Acre**
Grass	Alkali muhly	<i>Muhlenbergia asperifoliaa</i>	0.4	12.0
Grass	Alkali sacaton	<i>Sporobolus airoides</i>	0.5	2.0
Grass	Arizona cottontop	<i>Digitaria californica</i>	1.4	2.0
Grass	Beardless wildrye	<i>Leymus triticoides</i>	5.1	15.0
Grass	Big (Giant) sacaton	<i>Sporobolus wrightii</i>	0.4	1.0
Grass	Black grama	<i>Bouteloua eriopoda</i>	0.7	2.0
Grass	Blue grama	<i>Bouteloua gracilis</i>	1.2	3.0
Grass	Bottlebrush squirreltail	<i>Elymus elymoides</i>	4.5	7.0
Grass	Buffalograss	<i>Buchloe dactyloides</i>	2.6	8.0
Grass	Canada wildrye	<i>Elymus canadensis</i>	7.6	11.0
Grass	Cane bluestem	<i>Bothriochloa barbinodis</i>	1.7	2.0
Grass	False rhodes grass	<i>Chloris crinita</i>	0.6	1.0
Grass	Green sprangletop	<i>Leptochloa dubia</i>	1.6	3.0
Grass	Hairy grama	<i>Bouteloua hirsuta</i>	0.8	2.0
Grass	Indian ricegrass	<i>Oryzopsis hymenoides</i>	5.0	6.0
Grass	Inland saltgrass	<i>Distichlis stricta</i>	1.7	4.0
Grass	Little bluestem	<i>Schizachyrium scoparium</i>	3.4	4.0
Grass	Needle grama	<i>Bouteloua aristidoides</i>	2.1	5.0
Grass	New Mexico feathergrass	<i>Hesperostipa neomexicana</i>	12.4	10.0
Grass	Plains bristlegrass	<i>Setaria vulpiseta</i>	3.0	5.0
Grass	Plains lovegrass	<i>Eragrostis intermedia</i>	0.3	2.0
Grass	Purple threeawn	<i>Aristida purpurea</i>	3.5	6.0
Grass	Sand dropseed	<i>Sporobolus cryptandrus</i>	0.2	1.0
Grass	Sideoats grama	<i>Bouteloua curtipendula</i>	4.6	5.0
Grass	Slender grama	<i>Bouteloua repens</i>	7.5	20.0
Grass	Spike dropseed	<i>Sporobolus contractus</i>	0.5	2.0
Grass	Switchgrass	<i>Panicum virgatum</i>	3.1	4.0
Grass	Whiplash pappusgrass	<i>Pappophorum vaginatum</i>	2.9	3.0
Forb	Bitter rubberweed	<i>Hymenoxys oderata</i>	0.1	---
Forb	Blackfoot daisy	<i>Melampodium leucanthum</i>	0.1	---
Forb	Blanket flower	<i>Gaillardia pulchella</i>	0.3	---
Forb	Bristly nama/Sand bells	<i>Nama hispidum</i>	0.1	---
Shrub	Burro weed	<i>Ambrosia dumosa</i>	0.1	---
Forb	California poppy	<i>Eschscholzia californica</i>	0.4	---
Forb	Chia sage	<i>Salvia columbariae</i>	0.1	---

Arizona and New Mexico Land Boundary Areas				
Type	Common Name	Scientific Name	Min Seed Rate Lbs Seed/Acre*	Rec Seed Rate Lbs Seed/Acre**
Shrub	Desert brickellbush	<i>Brickellia desertorum</i>	0.1	---
Forb	Desert globemallow	<i>Sphaeralcea ambigua</i>	0.3	---
Forb	Desert marigold	<i>Baileya multiradiata</i>	0.2	---
Forb	Desert twinbugs	<i>Dicoria canescens</i>	0.1	---
Forb	Desert zinnia	<i>Zinnia acerosa</i>	0.2	---
Forb	Evening primrose	<i>Oenothera sp.</i>	0.1	---
Forb	Fall tansyaster	<i>Machaeranthera asteroides</i>	0.2	---
Shrub	Four-wing saltbush	<i>Atriplex canescens</i>	0.4	---
Forb	Hairy false goldenaster	<i>Heterotheca villosa</i>	0.2	---
Forb	Hairy sand verbena	<i>Abronia villosa</i>	0.1	---
Forb	Hairyseed bahia	<i>Bahia absinthifolia</i>	0.1	---
Forb	Mariola	<i>Parthenium incanum</i>	0.1	---
Forb	Mesa pepperwort	<i>Lepidium alyssoides</i>	0.1	---
Shrub	Mulefat (seep willow)	<i>Baccharis salicifolia</i>	0.2	---
Forb	Pebble pincushion	<i>Chaenactis carphoclinia</i>	0.1	---
Forb	Penstemon	<i>Penstemon sp.</i>	0.3	---
Forb	Prairie sunflower	<i>Helianthus petiolaris</i>	0.5	---
Forb	Purple prairie verbena	<i>Glandularia bipinnatifida</i>	0.1	---
Forb	San Felipe dogweed	<i>Adenophyllum porophylloides</i>	0.1	---
Forb	Sanddune wallflower	<i>Erysimum capitatum</i>	0.1	---
Shrub	Shrubby brickellbush	<i>Brickellia frutescens</i>	0.1	---
Forb	Spear globemallow	<i>Sphaeralcea hastulata</i>	0.3	---
Forb	Trailing krameria/Three fans	<i>Krameria lanceolata</i>	0.1	---
Forb	Trailing windmills	<i>Allionia incarnata</i>	0.1	---
Forb	Wild four o'clock	<i>Mirabilis multiflora</i>	0.3	---
Shrub	Winterfat	<i>Krascheninnikovia lanta</i>	0.2	---
Forb	Woodyaster	<i>Xylorhiza sp.</i>	0.3	---

**Table 4 Upper Rio Grande Project Areas**

Upper Rio Grande Project Areas				
Type	Common Name	Scientific Name	Min Seed Rate Lbs Seed/Acre*	Rec Seed Rate Lbs Seed/Acre**
Grass	Alkali muhly	<i>Muhlenbergia asperifoliaa</i>	0.4	12.0
Grass	Alkali sacaton	<i>Sporobolus airoides</i>	0.5	2.0
Grass	Arizona cottontop	<i>Digitaria californica</i>	1.4	2.0
Grass	Beardless wildrye	<i>Leymus triticoides</i>	5.1	15.0
Grass	Big (Giant) sacaton	<i>Sporobolus wrightii</i>	0.4	1.0
Grass	Black grama	<i>Bouteloua eriopoda</i>	0.7	2.0
Grass	Blue grama	<i>Bouteloua gracilis</i>	1.2	3.0
Grass	Bottlebrush squirreltail	<i>Elymus elymoides</i>	4.5	7.0
Grass	Buffalograss	<i>Buchloe dactyloides</i>	2.6	8.0
Grass	Canada wildrye	<i>Elymus canadensis</i>	7.6	11.0

Upper Rio Grande Project Areas				
Type	Common Name	Scientific Name	Min Seed Rate Lbs Seed/Acre*	Rec Seed Rate Lbs Seed/Acre**
Grass	Cane bluestem	<i>Bothriochloa barbinodis</i>	1.7	2.0
Grass	Green sprangletop	<i>Leptochloa dubia</i>	1.6	3.0
Grass	Hairy grama	<i>Bouteloua hirsuta</i>	0.8	2.0
Grass	Hooded windmill grass	<i>Chloris cucullata</i>	1.7	1.0
Grass	Indian ricegrass	<i>Oryzopsis hymenoides</i>	5.0	6.0
Grass	Inland saltgrass	<i>Distichlis stricta</i>	1.7	4.0
Grass	Little bluestem	<i>Schizachyrium scoparium</i>	3.4	4.0
Grass	Needle grama	<i>Bouteloua aristoides</i>	2.1	5.0
Grass	New Mexico feathergrass	<i>Hesperostipa neomexicana</i>	12.4	10.0
Grass	Pink pappusgrass	<i>Pappophorum bicolor</i>	2.7	3.0
Grass	Plains bristlegrass	<i>Setaria vulpiseta</i>	3.0	5.0
Grass	Plains lovegrass	<i>Eragrostis intermedia</i>	0.3	2.0
Grass	Purple threeawn	<i>Aristida purpurea</i>	3.5	6.0
Grass	Sand dropseed	<i>Sporobolus cryptandrus</i>	0.2	1.0
Grass	Sideoats grama	<i>Bouteloua curtipendula</i>	4.6	5.0
Grass	Switchgrass	<i>Panicum virgatum</i>	3.1	4.0
Grass	Whiplash pappusgrass	<i>Pappophorum vaginatum</i>	2.9	3.0
Forb	Bitter rubberweed	<i>Hymenoxys oderata</i>	0.1	---
Forb	Blackfoot daisy	<i>Melampodium leucanthum</i>	0.1	---
Forb	Blanket flower	<i>Gaillardia pulchella</i>	0.3	---
Forb	Bristly nama/Sand bells	<i>Nama hispidum</i>	0.1	---
Forb	California poppy	<i>Eschscholzia californica</i>	0.4	---
Forb	Chia sage	<i>Salvia columbariae</i>	0.1	---
Forb	Climbing milkweed	<i>Funastrum cynanchoides</i>	0.2	---
Forb	Desert marigold	<i>Baileya multiradiata</i>	0.2	---
Forb	Desert zinnia	<i>Zinnia acerosa</i>	0.2	---
Forb	Evening primrose	<i>Oenothera sp.</i>	0.1	---
Shrub	Four-wing saltbush	<i>Atriplex canescens</i>	0.4	---
Forb	Hairy false goldenaster	<i>Heterotheca villosa</i>	0.2	---
Forb	Hairyseed bahia	<i>Bahia absinthifolia</i>	0.1	---
Forb	Illinois bundleflower	<i>Desmanthus illinoensis</i>	0.2	---
Forb	Maximilian sunflower	<i>Helianthus maximiliani</i>	0.2	---
Forb	Mesa peppermint	<i>Lepidium alyssoides</i>	0.1	---
Forb	Pearl nettleleaf milkvine	<i>Matelea reticulata</i>	0.2	---
Forb	Penstemon	<i>Penstemon sp.</i>	0.3	---
Forb	Pink evening primrose	<i>Oenothera speciosa</i>	0.2	---
Forb	Plains fleabane	<i>Erigeron modestus</i>	0.1	---
Forb	Purple prairie verbena	<i>Glandularia bipinnatifida</i>	0.1	---
Shrub	Sand sage	<i>Artemisia filifolia</i>	0.1	---
Forb	Sanddune wallflower	<i>Erysimum capitatum</i>	0.1	---
Forb	Spear globemallow	<i>Sphaeralcea hastulata</i>	0.3	---
Forb	Trailing krameria/Three fans	<i>Krameria lanceolata</i>	0.1	---

Upper Rio Grande Project Areas				
Type	Common Name	Scientific Name	Min Seed Rate Lbs Seed/Acre*	Rec Seed Rate Lbs Seed/Acre**
Forb	Wild four o'clock	<i>Mirabilis multiflora</i>	0.3	---
Shrub	Winterfat	<i>Krascheninnikovia lanta</i>	0.2	---
Forb	Woodyaster	<i>Xylorhiza sp.</i>	0.3	---

**Table 5 Lower Rio Grande Project Areas**

Lower Rio Grande Project Areas				
Type	Common Name	Scientific Name	Min Seed Rate Lbs Seed/Acre*	Rec Seed Rate Lbs Seed/Acre**
Grass	Alkali sacaton	<i>Sporobolus airoides</i>	0.5	2.0
Grass	Arizona cottontop	<i>Digitaria californica</i>	1.4	2.0
Grass	Beardless wildrye	<i>Leymus triticoides</i>	5.1	15.0
Grass	Big (Giant) sacaton	<i>Sporobolus wrightii</i>	0.4	1.0
Grass	Cane bluestem	<i>Bothriochloa barbinodis</i>	1.7	2.0
Grass	False rhodes grass	<i>Chloris crinita</i>	0.6	1.0
Grass	Green sprangletop	<i>Leptochloa dubia</i>	1.6	3.0
Grass	Hairy grama	<i>Bouteloua hirsuta</i>	0.8	2.0
Grass	Hooded windmill grass	<i>Chloris cucullata</i>	1.7	1.0
Grass	Pink pappusgrass	<i>Pappophorum bicolor</i>	2.7	3.0
Grass	Plains bristlegrass	<i>Setaria vulpiseta</i>	3.0	5.0
Grass	Plains lovegrass	<i>Eragrostis intermedia</i>	0.3	2.0
Grass	Purple threeawn	<i>Aristida purpurea</i>	3.5	6.0
Grass	Sand dropseed	<i>Sporobolus cryptandrus</i>	0.2	1.0
Grass	Sideoats grama	<i>Bouteloua curtipendula</i>	4.6	5.0
Grass	Slender grama	<i>Bouteloua repens</i>	7.5	20.0
Grass	Texas grama	<i>Bouteloua rigidiseta</i>	8.4	15.0
Grass	Whiplash pappusgrass	<i>Pappophorum vaginatum</i>	2.9	3.0
Forb	Bitter rubberweed	<i>Hymenoxys oderata</i>	0.1	---
Forb	Black-eyed Susan	<i>Rudbeckia hirta</i>	0.2	---
Forb	Blanket flower	<i>Gaillardia pulchella</i>	0.3	---
Forb	Bristly nama/Sand bells	<i>Nama hispidum</i>	0.1	---
Forb	Climbing milkweed	<i>Funastrum cynanchoides</i>	0.2	---
Forb	Cutleaf daisy	<i>Erigeron compositus</i>	0.2	---
Forb	Evening primrose	<i>Oenothera sp.</i>	0.1	---
Forb	Giant coneflower	<i>Rudbeckia maxima</i>	0.2	---
Forb	Hairy pod cowpea	<i>Vigna luteola</i>	0.2	---
Forb	Hairyseed bahia	<i>Bahia absinthifolia</i>	0.1	---
Forb	Illinois bundleflower	<i>Desmanthus illinoensis</i>	0.2	---
Forb	Littlehead gumweed	<i>Grindelia microcephala</i>	0.2	---
Forb	Maximilian sunflower	<i>Helianthus maximiliani</i>	0.2	---
Forb	Pearl nettleleaf milkvine	<i>Matelea reticulata</i>	0.2	---
Forb	Penstemon	<i>Penstemon sp.</i>	0.3	---
Forb	Pink evening primrose	<i>Oenothera speciosa</i>	0.2	---

Lower Rio Grande Project Areas				
Type	Common Name	Scientific Name	Min Seed Rate Lbs Seed/Acre*	Rec Seed Rate Lbs Seed/Acre**
Forb	Pitcher sage	<i>Salvia spathace</i>	0.2	---
Forb	Purple prairie verbena	<i>Glandularia bipinnatifida</i>	0.1	---
Forb	Rio Grande dewberry	<i>Rubus riograndis</i>	0.2	---
Forb	Spearglobemallow	<i>Sphaeralcea hastulata</i>	0.3	---
Forb	Texas sunflower	<i>Helianthus praecox</i>	0.5	---
Forb	Trailing krameria/Three fans	<i>Krameria lanceolata</i>	0.1	---

\* Grass seeding rates shown are based upon NRCS recommended rates for drilled pure seed. Broadcast seeding will need at least double the seed rate. Rates below 100% pure seed must also be adjusted.

\*\* Recommended seeding rates shown are based upon commercial suppliers or growers. Rates are not provided for flowers and shrubs.

**6. USIBWC Resources and Information.** Requirements for work, forms, and standard drawings are available on USIBWC's website at [www.ibwc.gov/resources-info/](http://www.ibwc.gov/resources-info/).

A. The following documents are available for download on that site:

- (1) Appendix A - Design and Construction Requirements for All Projects
- (2) Appendix B - Land Boundary Project Requirements
- (3) Appendix C - Requirements for Projects on or Affecting a USIBWC Flood Control Structure
- (4) Appendix D - Minimum Levee Testing Requirements
- (5) Appendix E - Design Report Requirements
- (6) Appendix F - Hydraulic Modeling Methodology
- (7) Appendix G - Reseeding USIBWC Property
- (8) Appendix H - Floodplain Requirements

B. Please contact our Realty Office ([realty@ibwc.gov](mailto:realty@ibwc.gov)) to discuss which requirements apply to your project. Do not wait until you are ready to construct your project. Contact them well in advance so they can discuss our requirements.

Approved:

**RAMON  
MACIAS**

Digitally signed by  
RAMON MACIAS  
Date: 2024.01.30  
17:14:49 -07'00'

January 30, 2024

Ramon Macias, III, P.E. Engineering  
for  
Dr. Maria-Elena Giner, P.E.  
Commissioner

Date