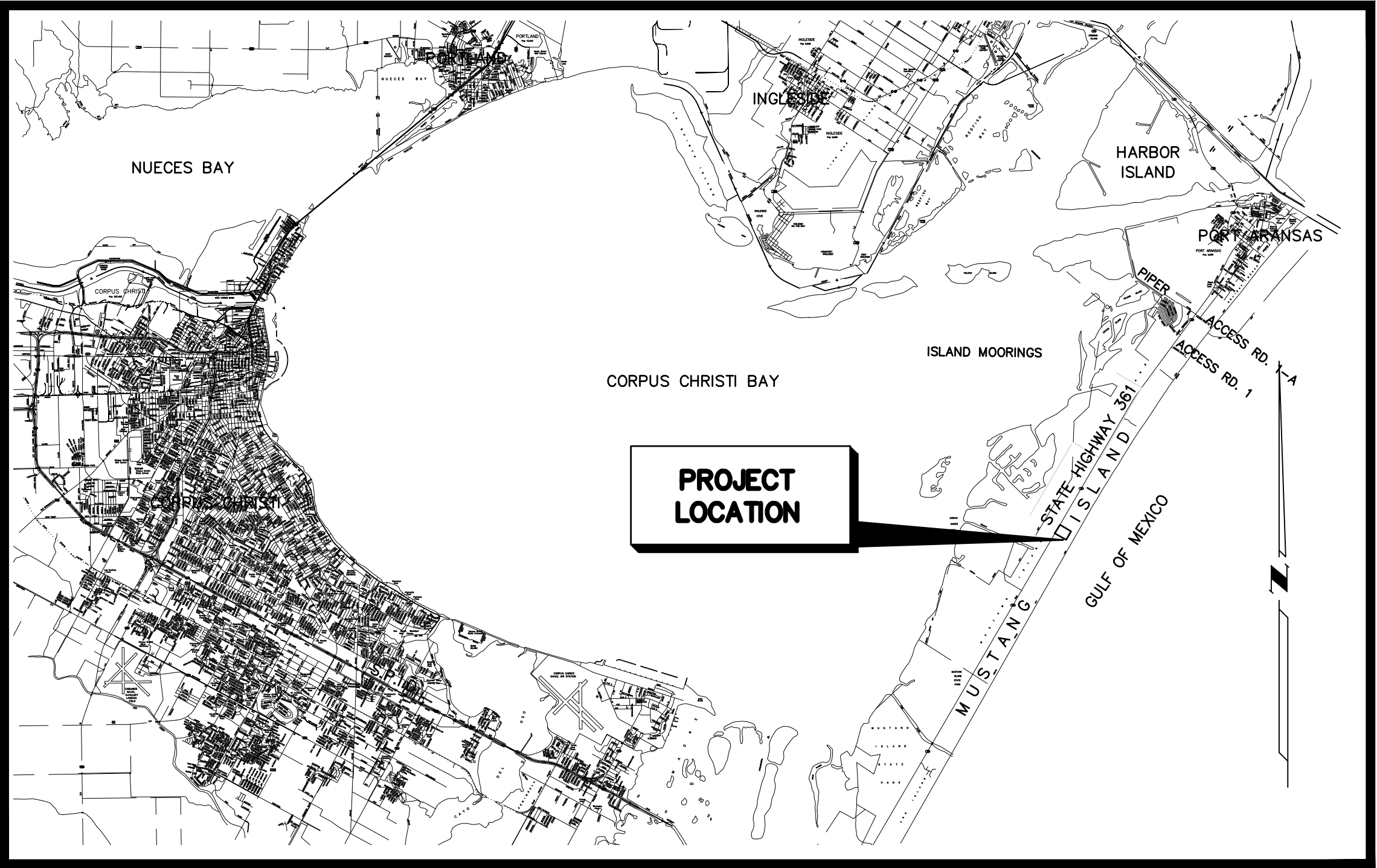
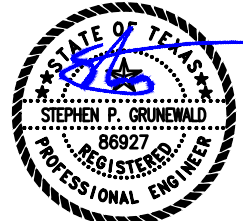


CONSTRUCTION PLANS  
FOR  
BEACH ACCESS ROAD 1-B  
PORT ARANSAS, TEXAS



LOCATION MAP  
NOT TO SCALE

| Sheet List Table |                                                |
|------------------|------------------------------------------------|
| Sheet Number     | Sheet Title                                    |
| 1                | COVER SHEET                                    |
| 2                | EXISTING CONDITIONS 1 OF 3                     |
| 3                | EXISTING CONDITIONS 2 OF 3                     |
| 4                | EXISTING CONDITIONS 3 OF 3                     |
| 5                | STREET AND STORM PLAN AND PROFILE SHEET 1 OF 3 |
| 6                | STREET AND STORM PLAN AND PROFILE SHEET 2 OF 3 |
| 7                | STREET AND STORM PLAN AND PROFILE SHEET 3 OF 3 |
| 8                | STORM PROFILES                                 |
| 9                | UTILITY LAYOUT SHEET 1 OF 2                    |
| 10               | UTILITY LAYOUT SHEET 2 OF 2                    |
| 11               | EROSION & SEDIMENTATION CONTROL PLAN 1 OF 2    |
| 12               | EROSION & SEDIMENTATION CONTROL PLAN 2 OF 2    |
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| 15               | MISCELLANEOUS DETAILS                          |
| 16               | NCWC&ID                                        |
| 17               | EROSION & SEDIMENTATION DETAILS                |
| 18               | ATTACHMENT 4 IMPACTS & MITIGATION              |



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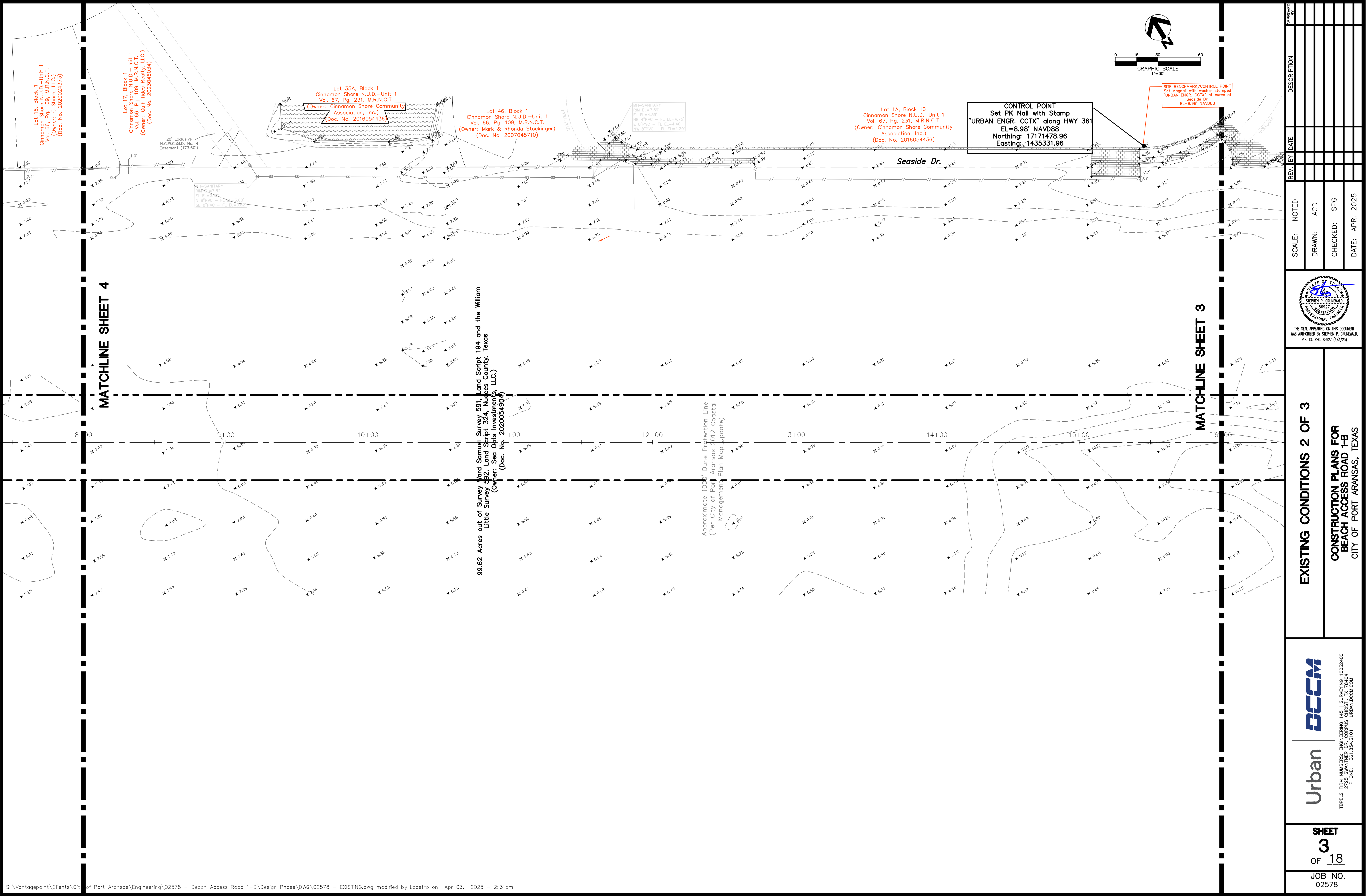
ENGINEER: \_\_\_\_\_  
STEPHEN P. GRUNEWALD, P.E.

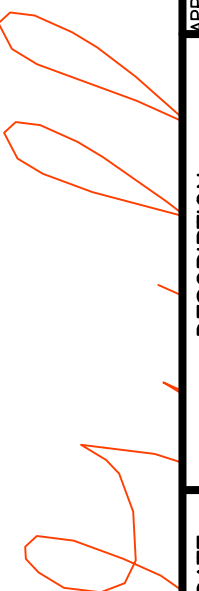


TBPELS FIRM NUMBERS: ENGINEERING 145 | SURVEYING 10032400  
2725 SWANTNER DR., CORPUS CHRISTI, TX 78404  
PHONE: 361.854.3101 URBAN.DCCM.COM

JOB NO. 02578  
DATE: MARCH 2025







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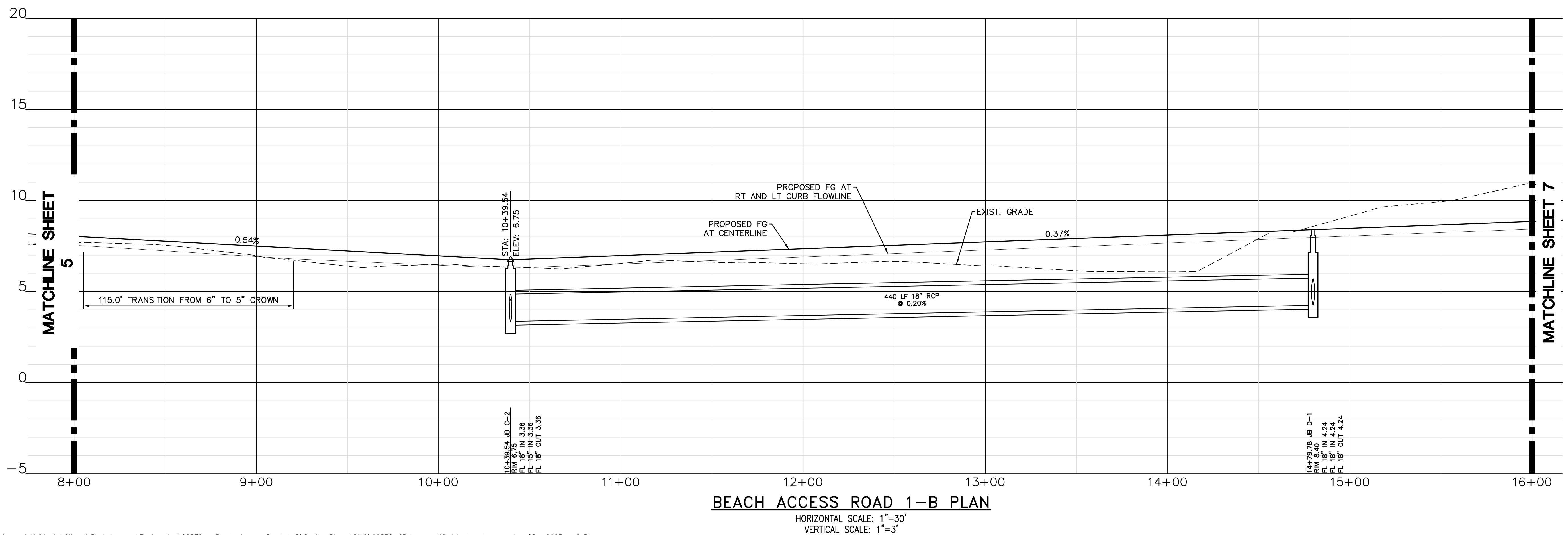
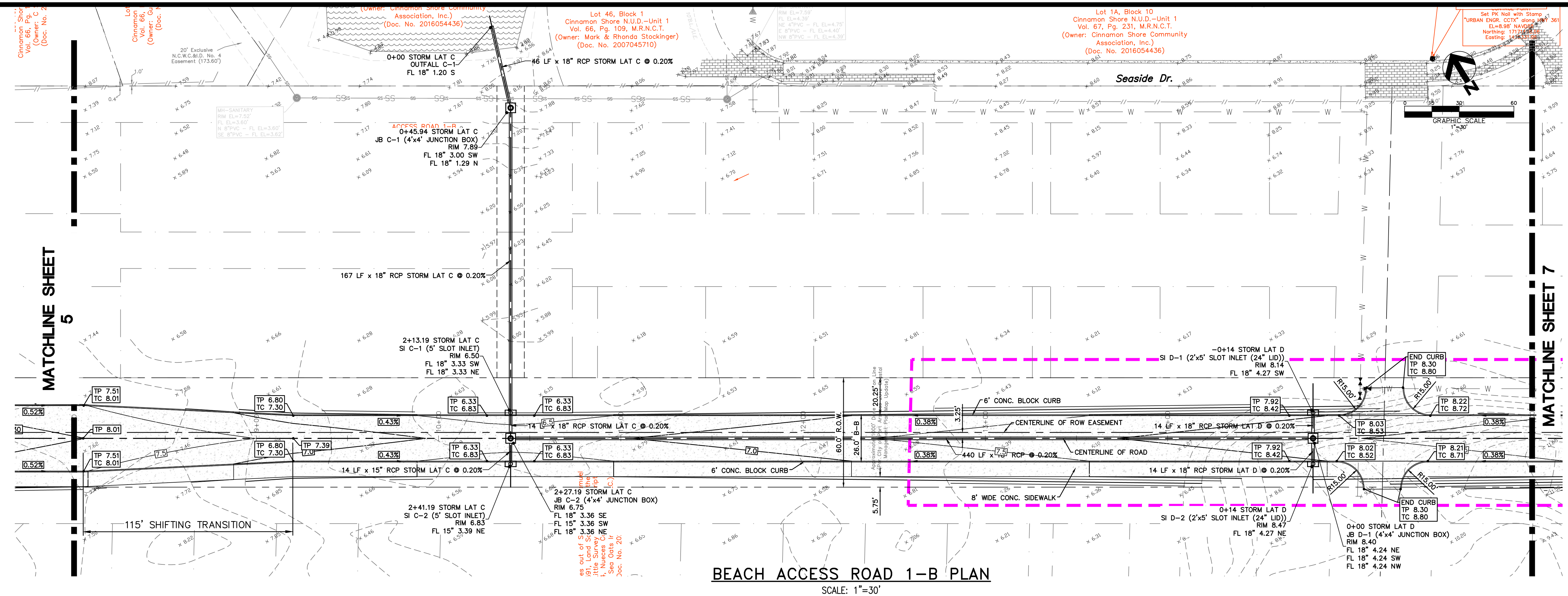
**CONSTRUCTION PLANS FOR  
BEACH ACCESS ROAD 1-B  
CITY OF PORT ARANSAS, TEXAS**



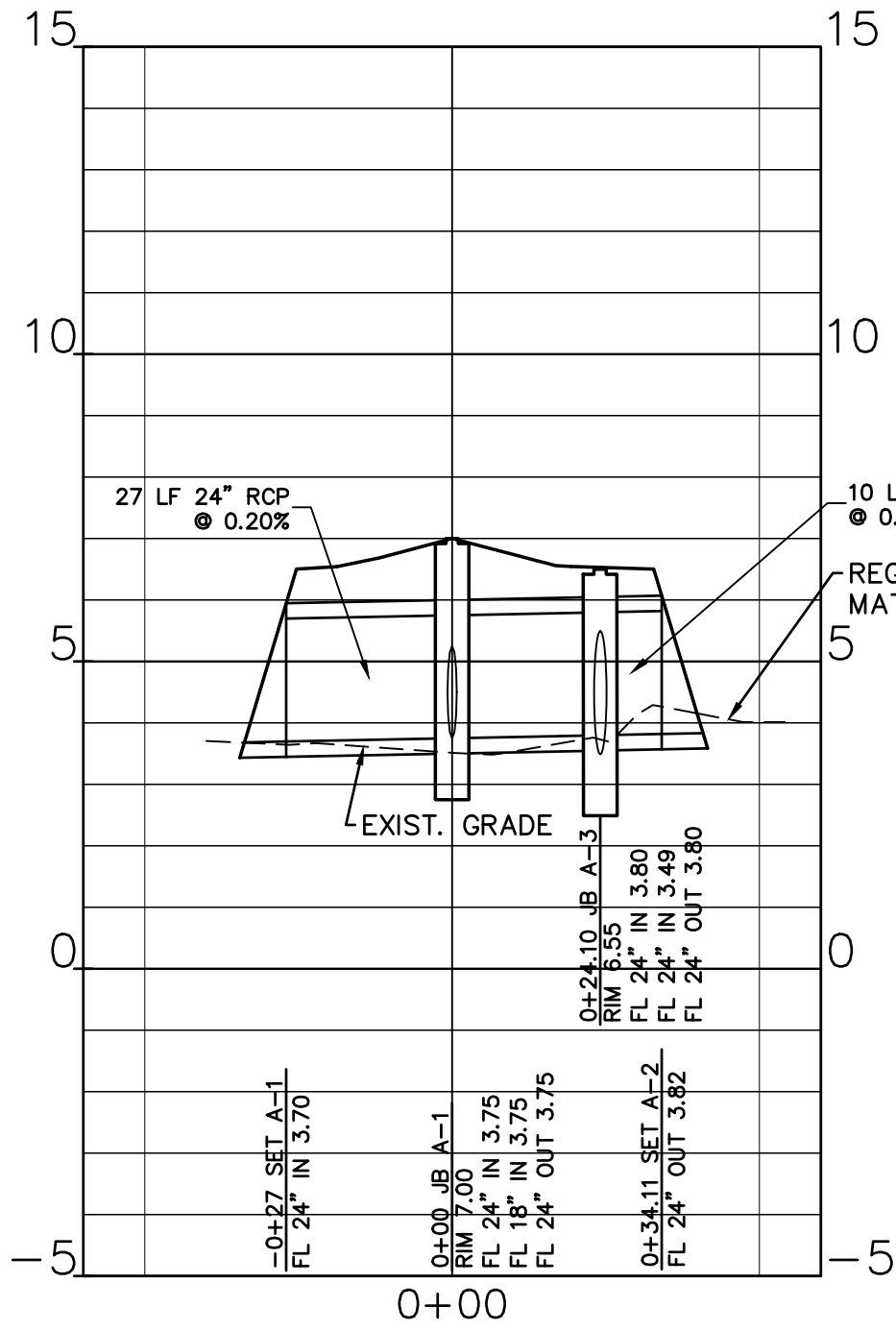
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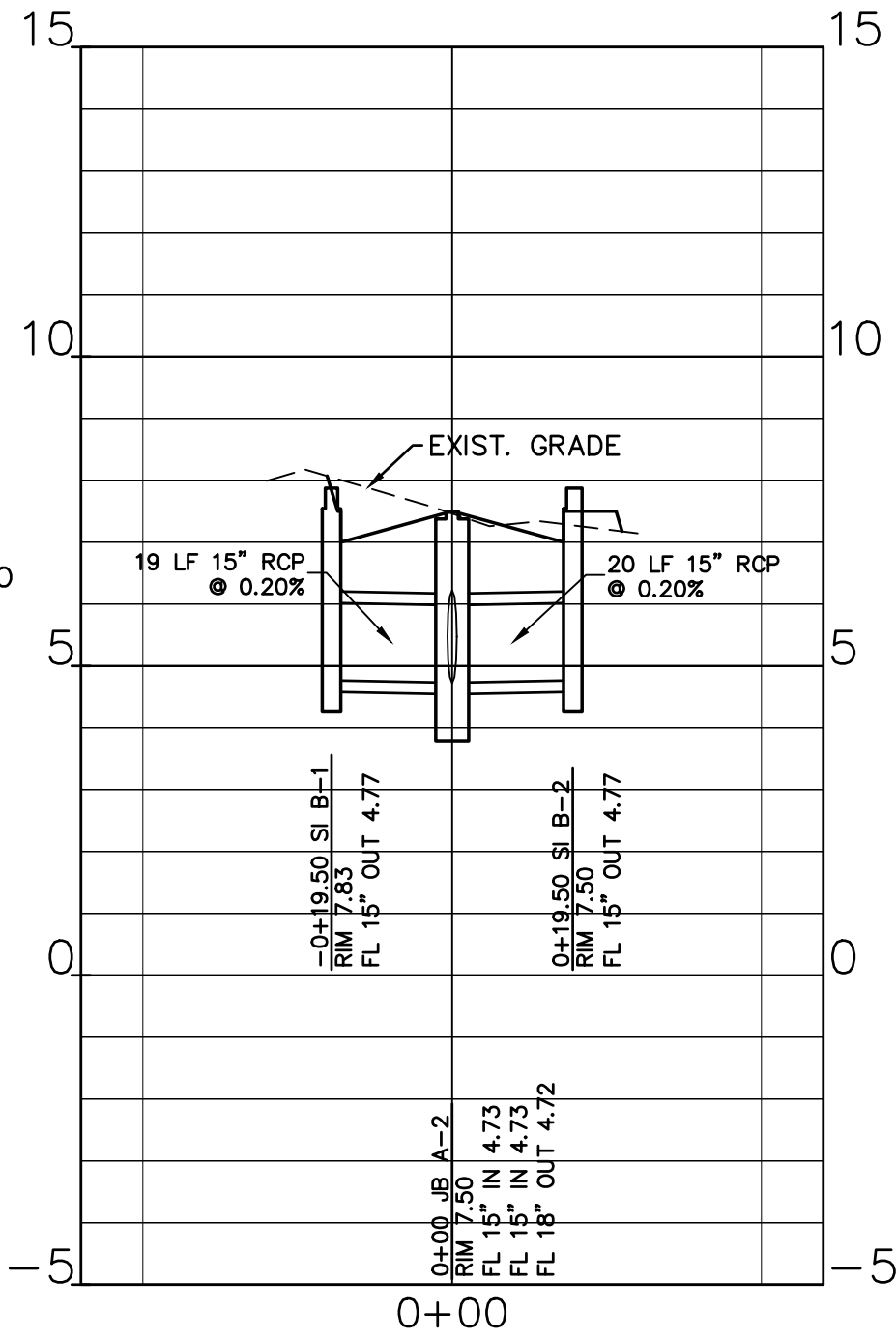
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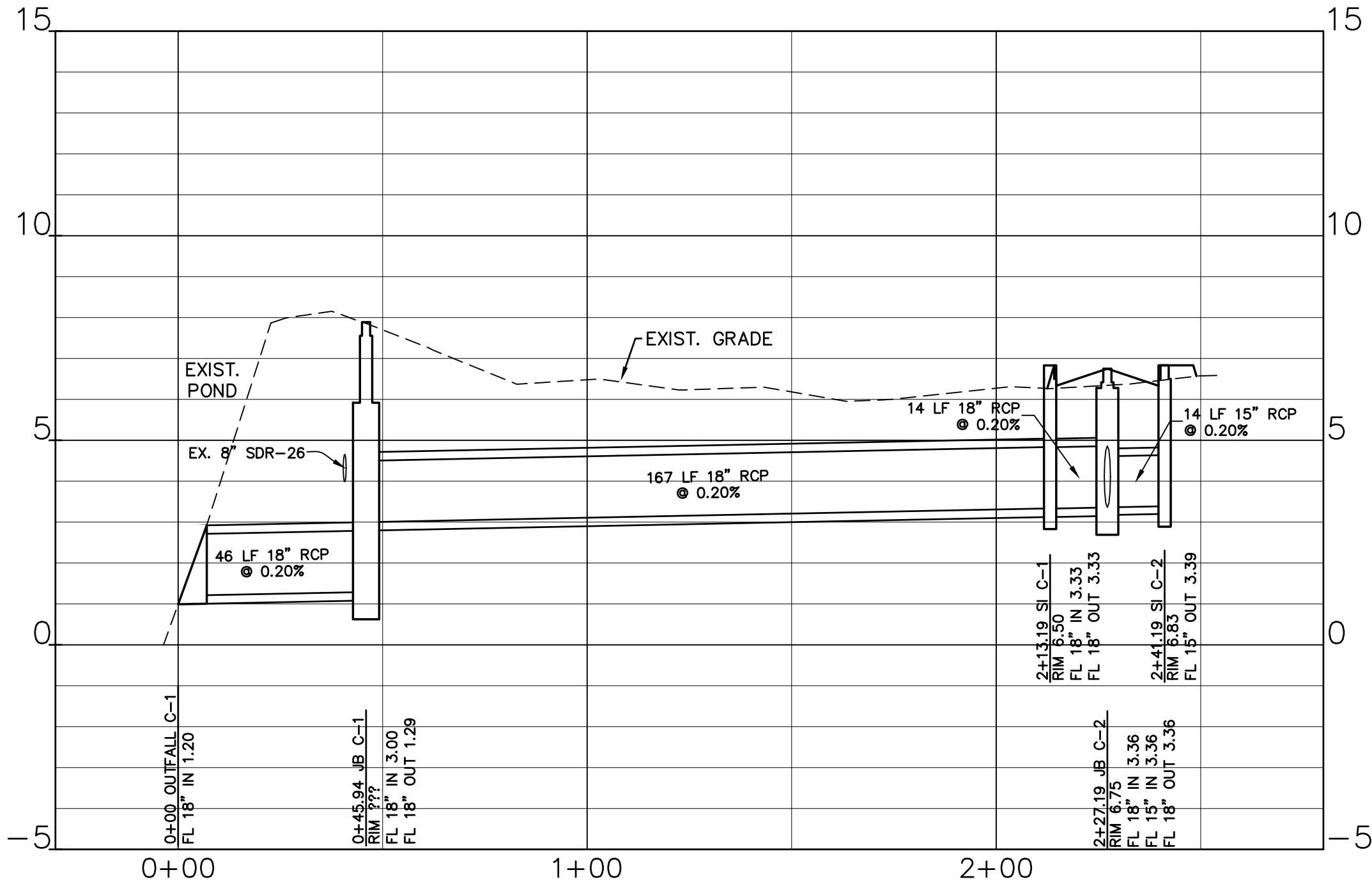
**STORM LAT A**

HORIZONTAL SCALE: 1"=30'  
VERTICAL SCALE: 1"=3'



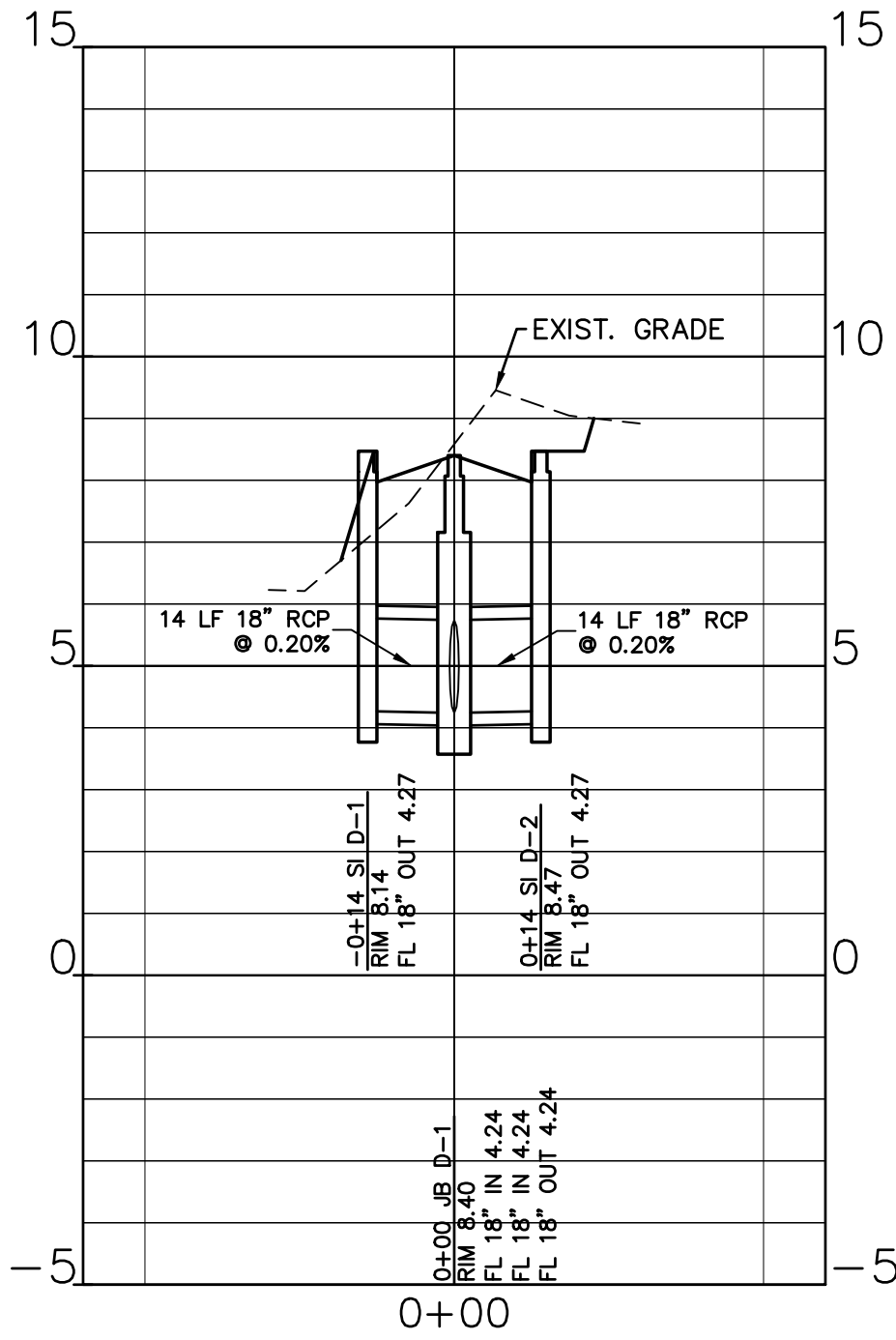
**STORM LAT B**

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VERTICAL SCALE: 1"=3'



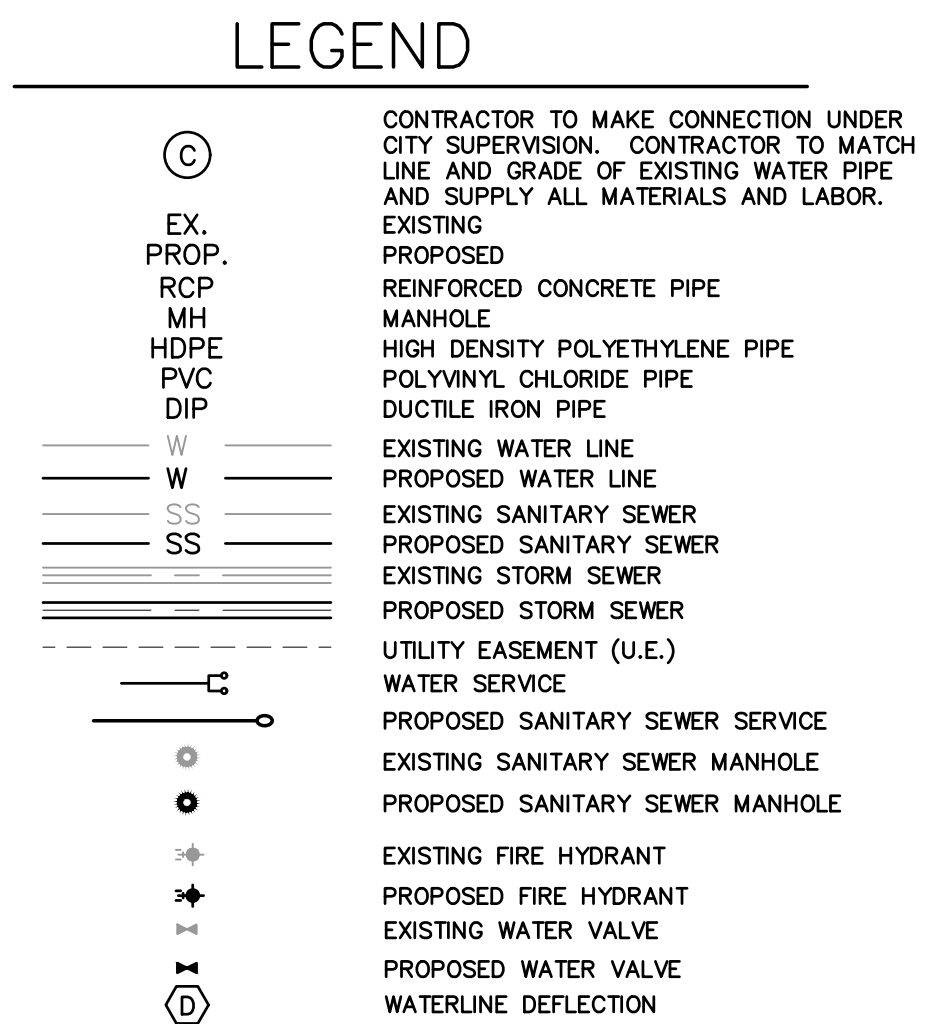
**STORM LAT C**

HORIZONTAL SCALE: 1"=30'  
VERTICAL SCALE: 1"=3'



**STORM LAT D**

HORIZONTAL SCALE: 1"=30'  
VERTICAL SCALE: 1"=3'



S:\Vantagepoint\Clients\City of Port Aransas\Engineering\02578 - Beach Access Road 1-B\Design Phase\DWG\02578-UTIL.dwg modified by Lcastro on Apr 03, 2025 - 2:31pm



SCALE: 1"=40'

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 P.E. TX. REG. 86927 (4/3/25)

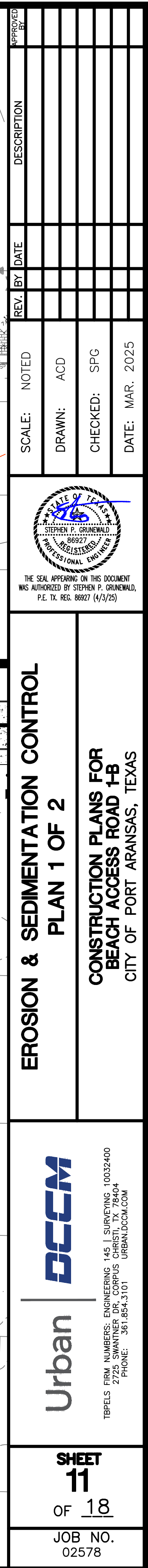
**CONSTRUCTION PLANS FOR  
BEACH ACCESS ROAD 1-B  
CITY OF PORT ARANSAS, TEXAS**

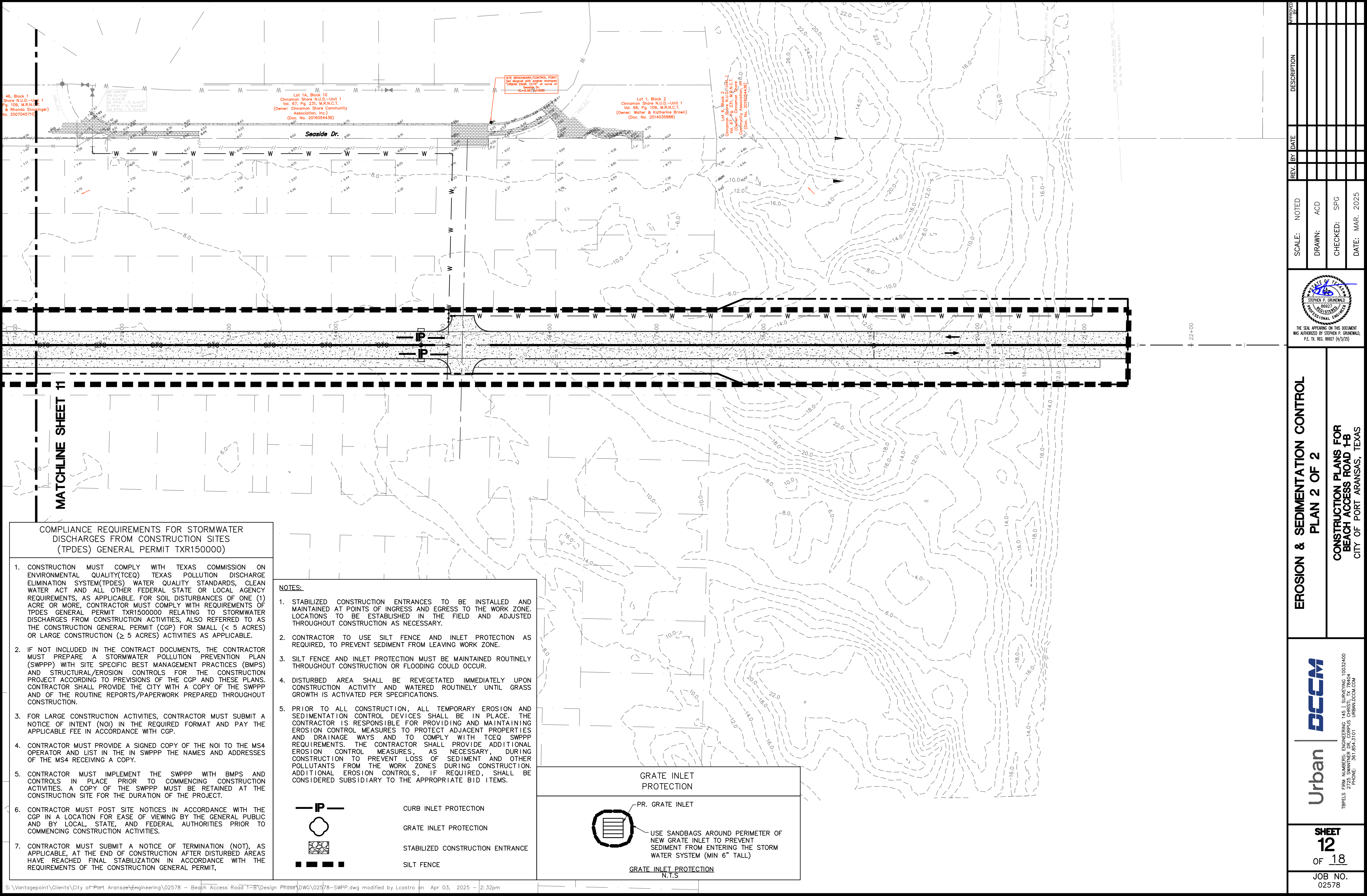
TBP&S FIRM NUMBERS: ENGINEERING 145 | SURVEYING 10032400  
2725 SWANTNER DR, CORPUS CHRISTI, TX 78404  
PHONE: 361.854.3101 URBAN:DCCM.COM

JOB NO  
02578

# LEGEND

|                                                                                       |                                                                                                                                                      |
|---------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | CONTRACTOR TO MAKE CONNECTION UNDER CITY SUPERVISION, CONTRACTOR TO MATCH LINE AND GRADE OF EXISTING WATER PIPE, AND SUPPLY ALL MATERIALS AND LABOR. |
| EX.                                                                                   | EXISTING                                                                                                                                             |
| PROP.                                                                                 | PROPOSED                                                                                                                                             |
| RCP                                                                                   | REINFORCED CONCRETE PIPE                                                                                                                             |
| MH                                                                                    | MANHOLE                                                                                                                                              |
| HDPE                                                                                  | HIGH DENSITY POLYETHYLENE PIPE                                                                                                                       |
| PVC                                                                                   | PVC VINYL CHLORIDE PIPE                                                                                                                              |
| DIP                                                                                   | DUCTILE IRON PIPE                                                                                                                                    |
|  | EXISTING WATER LINE                                                                                                                                  |
|  | PROPOSED WATER LINE                                                                                                                                  |
|  | EXISTING SANITARY SEWER                                                                                                                              |
|  | PROPOSED SANITARY SEWER                                                                                                                              |
|  | EXISTING STORM SEWER                                                                                                                                 |
|  | PROPOSED STORM SEWER                                                                                                                                 |
|  | UTILITY EASEMENT (U.E.)                                                                                                                              |
|  | WATER SERVICE                                                                                                                                        |
|  | PROPOSED SANITARY SEWER SERVICE                                                                                                                      |
|  | EXISTING SANITARY SEWER MANHOLE                                                                                                                      |
|  | PROPOSED SANITARY SEWER MANHOLE                                                                                                                      |
|  | EXISTING FIRE HYDRANT                                                                                                                                |
|  | PROPOSED FIRE HYDRANT                                                                                                                                |
|  | EXISTING WATER VALVE                                                                                                                                 |
|  | PROPOSED WATER VALVE                                                                                                                                 |
|  | WATERLINE DEFLECTION                                                                                                                                 |





46, Block 1  
Shore N.U.D.-Unit 1  
Pg. 109, M.R.N.C.T.  
& Rhonda Stoeninger  
No. 2007045710

Lot 1A, Block 10  
Cinnamon Shore N.U.D.-Unit 1  
Vol. 57, Pg. 231, M.R.N.C.T.  
(Owner: Cinnamon Shore Community  
Association, Inc.)  
(Doc. No. 2018054436)

Lot 1, Block 2  
Cinnamon Shore N.U.D.-Unit 1  
Vol. 66, Pg. 109, M.R.N.C.T.  
(Owner: Walter & Katherine Brown)  
(Doc. No. 2014035888)

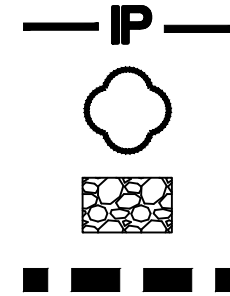
Site Benchmark/Control Point  
Set August 2010, corner of  
Urban Engineers Dr.  
Elev. 3.50' (MADSS)

Cinnamon Shore N.U.D.-Unit 1  
Vol. 67, Pg. 231, M.R.N.C.T.  
(Owner: Cinnamon Shore Community  
Association, Inc.)  
(Doc. No. 2018044436)

Sheet 1 of 2  
Urban Engineers Dr.  
Pg. 109, M.R.N.C.T.  
& Rhonda Stoeninger  
No. 2007045710

- COMPLIANCE REQUIREMENTS FOR STORMWATER DISCHARGES FROM CONSTRUCTION SITES (TPDES) GENERAL PERMIT TXR1500000)
- CONSTRUCTION MUST COMPLY WITH TEXAS COMMISSION ON ENVIRONMENTAL QUALITY(TCEQ) TEXAS POLLUTION DISCHARGE ELIMINATION SYSTEM(TPDES) WATER QUALITY STANDARDS, CLEAN WATER ACT AND ALL OTHER FEDERAL STATE OR LOCAL AGENCY REQUIREMENTS, AS APPLICABLE. FOR SOIL DISTURBANCES OF ONE (1) ACRE OR MORE, CONTRACTOR MUST COMPLY WITH REQUIREMENTS OF TPDES GENERAL PERMIT TXR1500000 RELATING TO STORMWATER DISCHARGES FROM CONSTRUCTION ACTIVITIES, ALSO REFERRED TO AS THE CONSTRUCTION GENERAL PERMIT (CGP) FOR SMALL (< 5 ACRES) OR LARGE CONSTRUCTION ( $\geq$  5 ACRES) ACTIVITIES AS APPLICABLE.
  - IF NOT INCLUDED IN THE CONTRACT DOCUMENTS, THE CONTRACTOR MUST PREPARE A STORMWATER POLLUTION PREVENTION PLAN (SWPPP) WITH SITE SPECIFIC BEST MANAGEMENT PRACTICES (BMPs) AND STRUCTURAL/EROSION CONTROLS FOR THE CONSTRUCTION PROJECT ACCORDING TO PREVISIONS OF THE CGP AND THESE PLANS. CONTRACTOR SHALL PROVIDE THE CITY WITH A COPY OF THE SWPPP AND OF THE ROUTINE REPORTS/PAPERWORK PREPARED THROUGHOUT CONSTRUCTION.
  - FOR LARGE CONSTRUCTION ACTIVITIES, CONTRACTOR MUST SUBMIT A NOTICE OF INTENT (NOI) IN THE REQUIRED FORMAT AND PAY THE APPLICABLE FEE IN ACCORDANCE WITH CGP.
  - CONTRACTOR MUST PROVIDE A SIGNED COPY OF THE NOI TO THE MS4 OPERATOR AND LIST IN THE IN SWPPP THE NAMES AND ADDRESSES OF THE MS4 RECEIVING A COPY.
  - CONTRACTOR MUST IMPLEMENT THE SWPPP WITH BMPs AND CONTROLS IN PLACE PRIOR TO COMMENCING CONSTRUCTION ACTIVITIES. A COPY OF THE SWPPP MUST BE RETAINED AT THE CONSTRUCTION SITE FOR THE DURATION OF THE PROJECT.
  - CONTRACTOR MUST POST SITE NOTICES IN ACCORDANCE WITH THE CGP IN A LOCATION FOR EASE OF VIEWING BY THE GENERAL PUBLIC AND BY LOCAL, STATE, AND FEDERAL AUTHORITIES PRIOR TO COMMENCING CONSTRUCTION ACTIVITIES.
  - CONTRACTOR MUST SUBMIT A NOTICE OF TERMINATION (NOT), AS APPLICABLE, AT THE END OF CONSTRUCTION AFTER DISTURBED AREAS HAVE REACHED FINAL STABILIZATION IN ACCORDANCE WITH THE REQUIREMENTS OF THE CONSTRUCTION GENERAL PERMIT,

- NOTES:
- STABILIZED CONSTRUCTION ENTRANCES TO BE INSTALLED AND MAINTAINED AT POINTS OF INGRESS AND EGRESS TO THE WORK ZONE. LOCATIONS TO BE ESTABLISHED IN THE FIELD AND ADJUSTED THROUGHOUT CONSTRUCTION AS NECESSARY.
  - CONTRACTOR TO USE SILT FENCE AND INLET PROTECTION AS REQUIRED, TO PREVENT SEDIMENT FROM LEAVING WORK ZONE.
  - SILT FENCE AND INLET PROTECTION MUST BE MAINTAINED ROUTINELY THROUGHOUT CONSTRUCTION OR FLOODING COULD OCCUR.
  - DISTURBED AREA SHALL BE REVEGETATED IMMEDIATELY UPON CONSTRUCTION ACTIVITY AND WATERED ROUTINELY UNTIL GRASS GROWTH IS ACTIVATED PER SPECIFICATIONS.
  - PRIOR TO ALL CONSTRUCTION, ALL TEMPORARY EROSION AND SEDIMENTATION CONTROL DEVICES SHALL BE IN PLACE. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING AND MAINTAINING EROSION CONTROL MEASURES TO PROTECT ADJACENT PROPERTIES AND DRAINAGE WAYS AND TO COMPLY WITH TCEQ SWPPP REQUIREMENTS. THE CONTRACTOR SHALL PROVIDE ADDITIONAL EROSION CONTROL MEASURES, AS NECESSARY, DURING CONSTRUCTION TO PREVENT LOSS OF SEDIMENT AND OTHER POLLUTANTS FROM THE WORK ZONES DURING CONSTRUCTION. ADDITIONAL EROSION CONTROLS, IF REQUIRED, SHALL BE CONSIDERED SUBSIDIARY TO THE APPROPRIATE BID ITEMS.

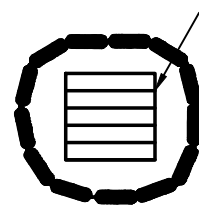


CURB INLET PROTECTION

GRATE INLET PROTECTION

STABILIZED CONSTRUCTION ENTRANCE

SILT FENCE



GRATE INLET PROTECTION

PR. GRATE INLET

USE SANDBAGS AROUND PERIMETER OF NEW GRATE INLET TO PREVENT SEDIMENT FROM ENTERING THE STORM WATER SYSTEM (MIN 6" TALL)

GRATE INLET PROTECTION N.T.S

|             |             |         |      |        |       |        |     |          |     |       |           |
|-------------|-------------|---------|------|--------|-------|--------|-----|----------|-----|-------|-----------|
| APPROVED BY | DESCRIPTION | REV. BY | DATE | SCALE: | NOTED | DRAWN: | ACD | CHECKED: | SPG | DATE: | MAR. 2025 |
|             |             |         |      |        |       |        |     |          |     |       |           |

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EROSION & SEDIMENTATION CONTROL

PLAN 2 OF 2

CONSTRUCTION PLANS FOR BEACH ACCESS ROAD 1-B

CITY OF PORT ARANSAS, TEXAS

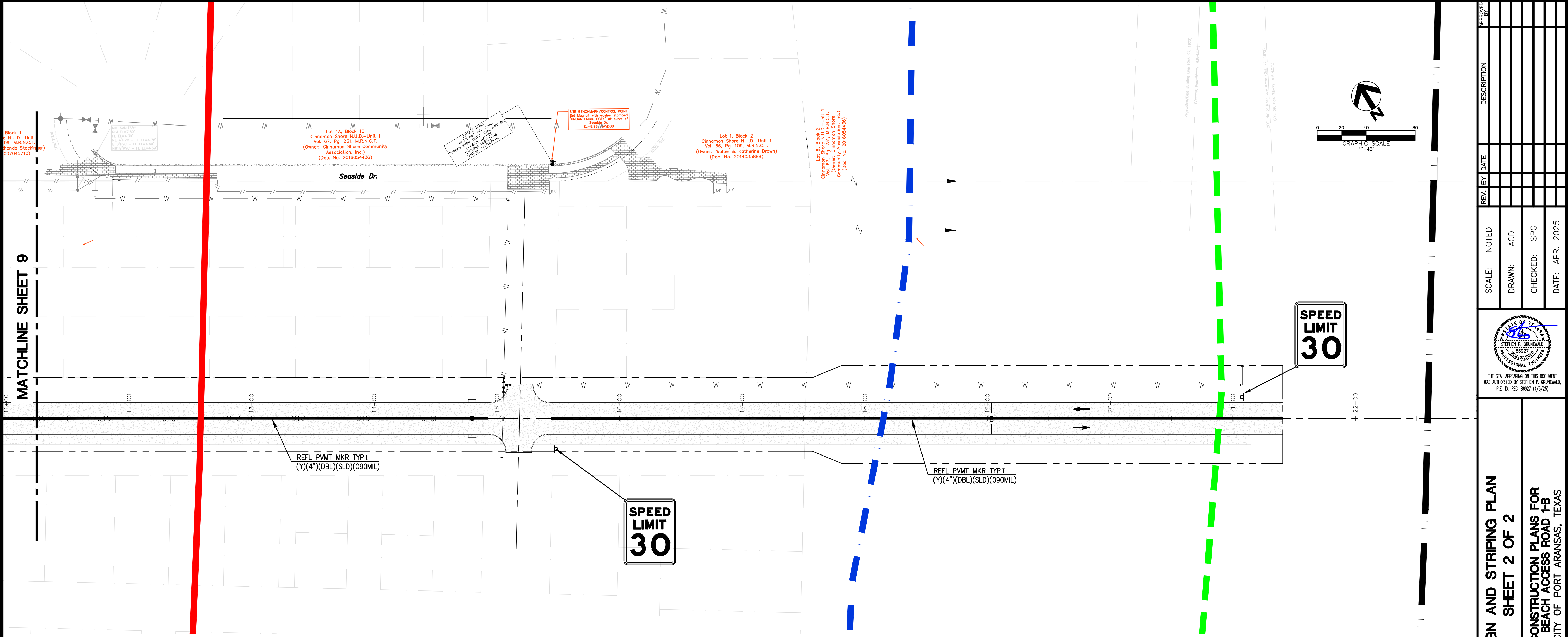
Urban DCCM

Urban Engineers, Inc. 145 J. SURFING RD. 10032400  
2725 SWANNIER DR. CORPUS CHRISTI, TX 78404  
PHONE: 361.854.3101

SHEET 12 OF 18

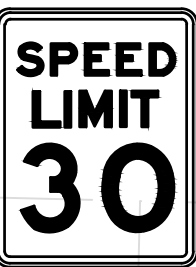
JOB NO. 02578





MATCHLINE SHEET 9

BEACH ACCESS ROAD 1-B PLAN  
SCALE: 1"=40'

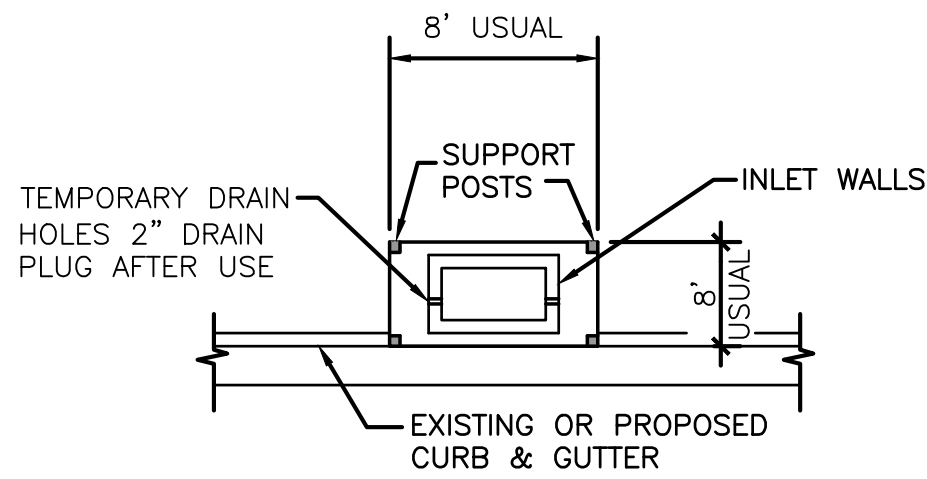


NOTE:  
EXACT LOCATION OF SPEED LIMIT  
SIGN T.B.D.

|                                                                                                                                                          |                                                                                                                          |  |          |           |         |      |             |             |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|--|----------|-----------|---------|------|-------------|-------------|--|
| Urban<br>TEBELS REYNOLDS ENGINEERING, L.P.   SURVEYING   10332400<br>2725 SWANSEA DR., CORPUS CHRISTI, TX 78404<br>PHONE: 361.854.3101<br>URBAN.DCCM.COM | SIGN AND STRIPING PLAN<br>SHEET 2 OF 2<br>CONSTRUCTION PLANS FOR<br>BEACH ACCESS ROAD 1-B<br>CITY OF PORT ARANSAS, TEXAS |  | SCALE:   | NOTED     | REV. BY | DATE | DESCRIPTION | APPROVED BY |  |
|                                                                                                                                                          |                                                                                                                          |  | DRAWN:   | ACD       |         |      |             |             |  |
|                                                                                                                                                          |                                                                                                                          |  | CHECKED: | SPG       |         |      |             |             |  |
|                                                                                                                                                          |                                                                                                                          |  | DATE:    | APR. 2025 |         |      |             |             |  |
|                                                                                                                                                          |                                                                                                                          |  |          |           |         |      |             |             |  |



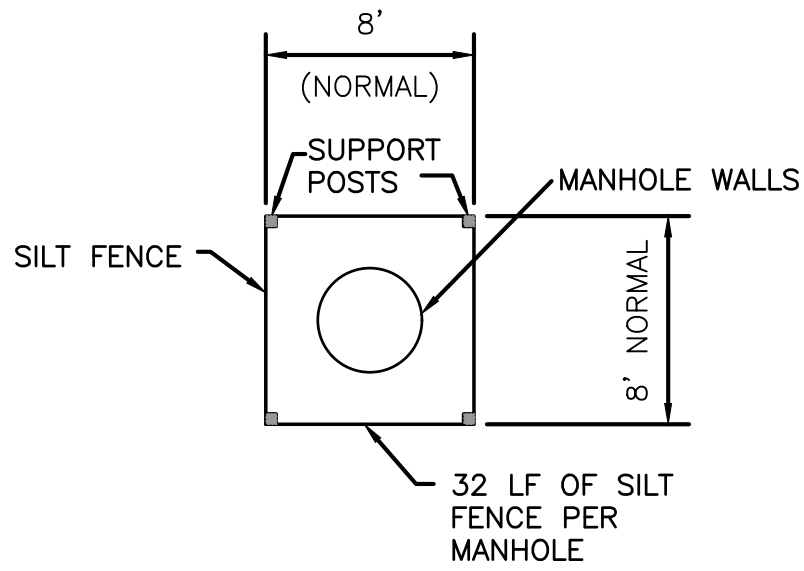




**NOTE:**  
TYPICAL SILT FENCE INSTALLATION AT CURB INLET PRIOR TO PLACEMENT OF CURB AND INLET TOP.

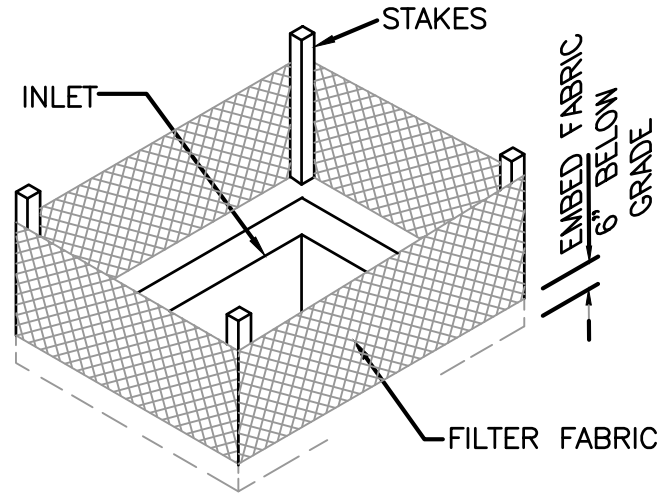
### CURB INLET - PLAN

NOT TO SCALE



### MANHOLE - PLAN

NOT TO SCALE

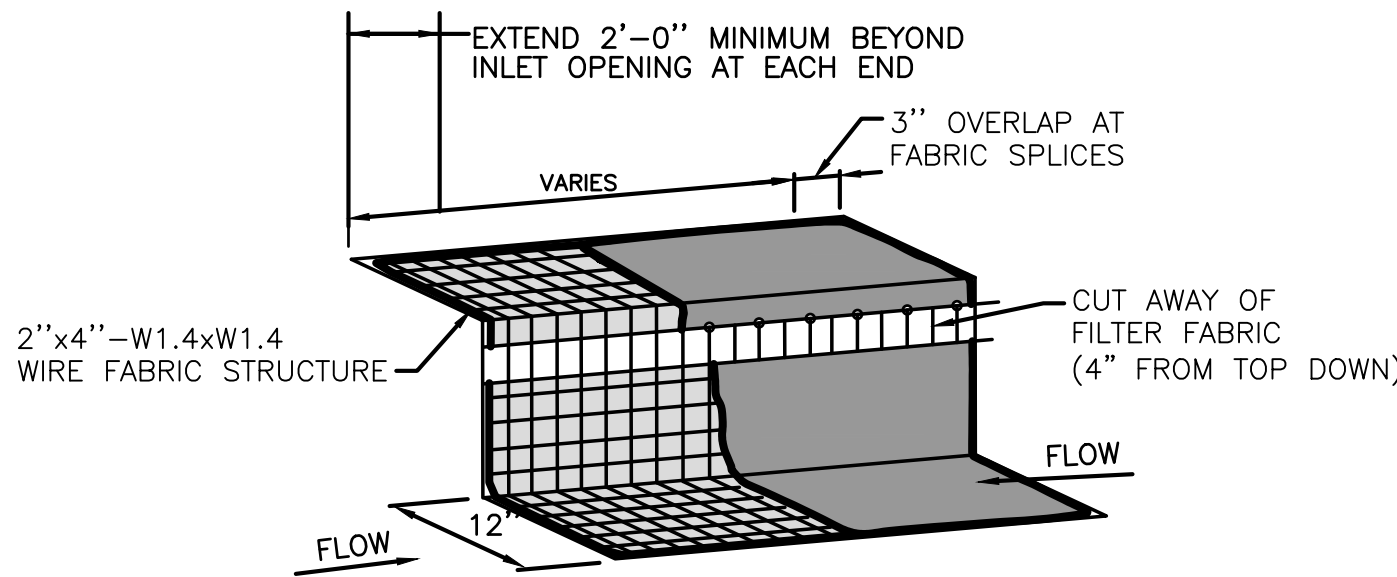


#### NOTES:

1. FILTER FABRIC INLET PROTECTION SHALL BE USED DURING CONSTRUCTION TO CONTROL SEDIMENTATION.
2. PERIMETER SILT FENCING AROUND INLET LOCATIONS SHALL BE INSTALLED AFTER PIPE IS PLACED.
3. FABRIC MATERIAL SHALL BE A NET-REINFORCED FENCE, USING WOVEN GEOTEXTILE FABRIC.
4. FENCE SHOULD BE REMOVED UPON COMPLETION OF CONSTRUCTION.

### TEMPORARY FILTER FABRIC INLET PROTECTION DETAIL

NOT TO SCALE

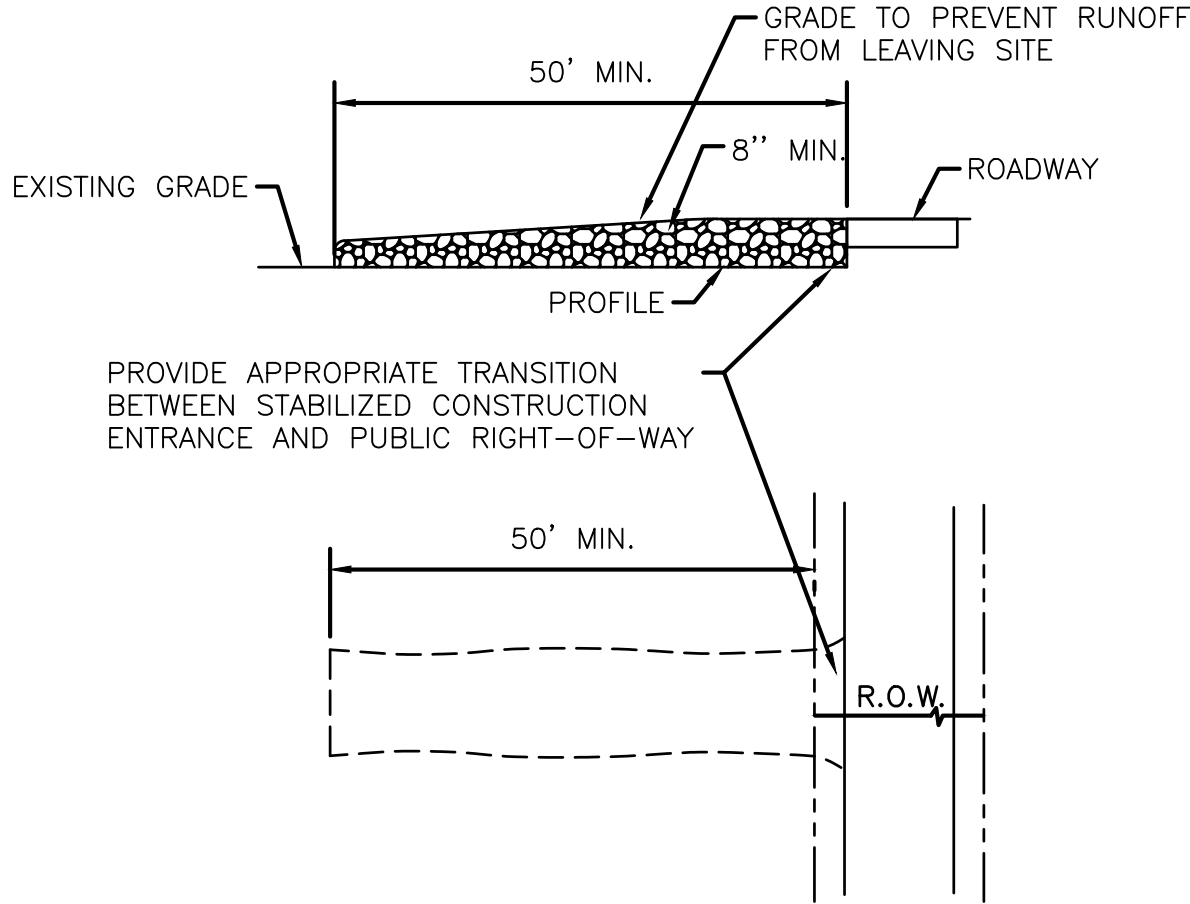


### CURB INLET PROTECTION DETAIL

NOT TO SCALE

#### CURB INLET PROTECTION NOTES:

1. TO HOLD THE FILTER DIKE IN PLACE, 20 LB SANDBAGS SHALL BE USED AT 3' O.C. WHERE MINIMUM CLEARANCES CAUSE TRAFFIC TO DRIVE IN THE GUTTER, THE CONTRACTOR MAY SUBSTITUTE A 1"x4" BOARD, SECURED WITH 1/4" OR 3/8" CONCRETE SCREWS. THE 1/4" OR 3/8" CONCRETE SCREWS SHALL BE ATTACHED TO THE GUTTER BY DRILLING AN APPROPRIATE PILOT HOLE WITH A CONCRETE BIT AND INSERT PLASTIC FASTENERS. THE TOP OF THE SCREW SHALL BE RECESSED BELOW THE TOP OF THE BOARD. THE SCREWS SHALL BE PLACED ON 3' O.C. THIS METHOD IS USED IN LIEU OF SANDBAGS, IN THE GUTTER ONLY, TO HOLD THE FILTER DIKE IN PLACE. UPON REMOVAL, EITHER LEAVE THE PLASTIC FASTENERS IN PLACE, OR REMOVE THE PLASTIC FASTENERS, CLEAN ANY DIRT/DEBRIS FROM THE SCREW LOCATIONS, APPLY CHEMICAL SANDING AGENT AND APPLY NON-SHRINK GROUT FLUSH WITH THE SURFACE OF THE GUTTER. THIS METHOD SHALL NOT BE USED ON THE INLET IN LIEU OF SANDBAGS.
2. A SECTION OF FILTER FABRIC SHALL BE REMOVED AS SHOWN ON THIS DETAIL OR AS DIRECTED BY THE ENGINEER OR DESIGNATED REPRESENTATIVE. FABRIC MUST BE SECURED TO WIRE BACKING WITH CLIPS OR HOG RINGS AT THIS LOCATION.
3. DAILY INSPECTION SHALL BE MADE BY THE CONTRACTOR AND SILT ACCUMULATION MUST BE REMOVED WHEN DEPTH REACHES 2". INLET PROTECTION SHALL BE REPLACED AS NECESSARY DURING CONSTRUCTION DUE TO DAMAGE OR DETERIORATION (SUBSIDIARY TO INLET PROTECTION).
4. CONTRACTOR SHALL MONITOR THE PERFORMANCE OF INLET PROTECTION DURING EACH RAINFALL EVENT AND ONLY REMOVE INLET PROTECTION IF DIRECTED BY THE CITY OF CORPUS CHRISTI, OR IF CONTRACTOR OBSERVES AN IMMINENT THREAT OF FLOODING OF SURROUNDING PROPERTY.
5. INLET PROTECTIONS SHALL BE REMOVED AS SOON AS THE SOURCE OF SEDIMENT IS STABILIZED.



#### PLAN

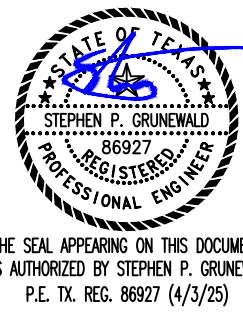
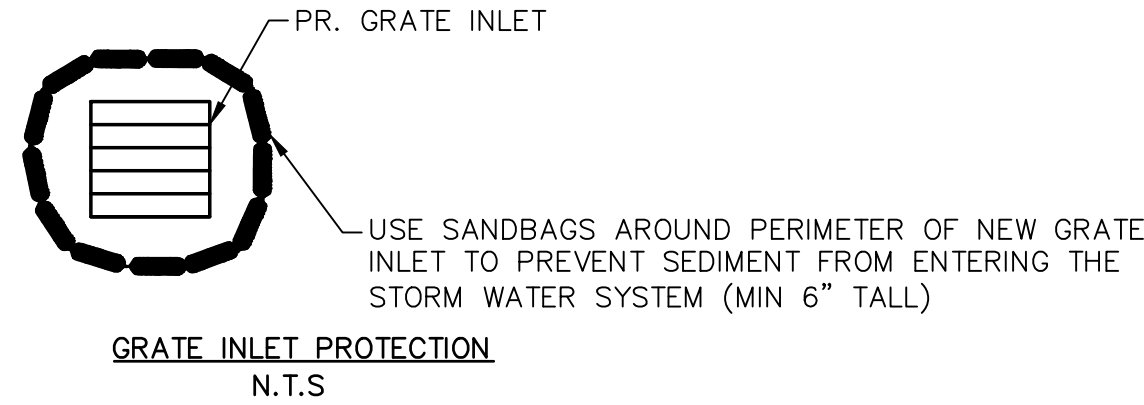
### STABILIZED CONSTRUCTION ENTRANCE

NOT TO SCALE

#### CONSTRUCTION ENTRANCE NOTES:

1. STONE SIZE: 3-5" OPEN GRADED ROCK.
2. LENGTH: AS EFFECTIVE BUT NOT LESS THAN 50'.
3. THICKNESS: NOT LESS THAN 8".
4. WIDTH: NOT LESS THAN FULL WIDTH OF ALL POINTS OF INGRESS/EGRESS.
5. WASHING: WHEN NECESSARY, VEHICLE WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC ROADWAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE AND DRAINS INTO AN APPROVED TRAP OR SEDIMENT BASIN. ALL SEDIMENT SHALL BE PREVENTED FROM ENTERING ANY STORM DRAIN, DITCH OR WATERCOURSE USING APPROVED METHODS.
6. MAINTENANCE: THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC ROADWAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND, AS WELL AS REPAIR AND CLEAN OUT OF ANY MEASURE DEVICES USED TO TRAP SEDIMENT. ALL SEDIMENTS THAT IS SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC ROADWAY MUST BE REMOVED IMMEDIATELY.
7. DRAINAGE: ENTRANCE MUST BE PROPERLY GRADED OR INCORPORATE A DRAINAGE SWALE TO PREVENT RUNOFF FROM LEAVING THE CONSTRUCTION SITE.

### GRATE INLET PROTECTION



### EROSION & SEDIMENTATION DETAILS

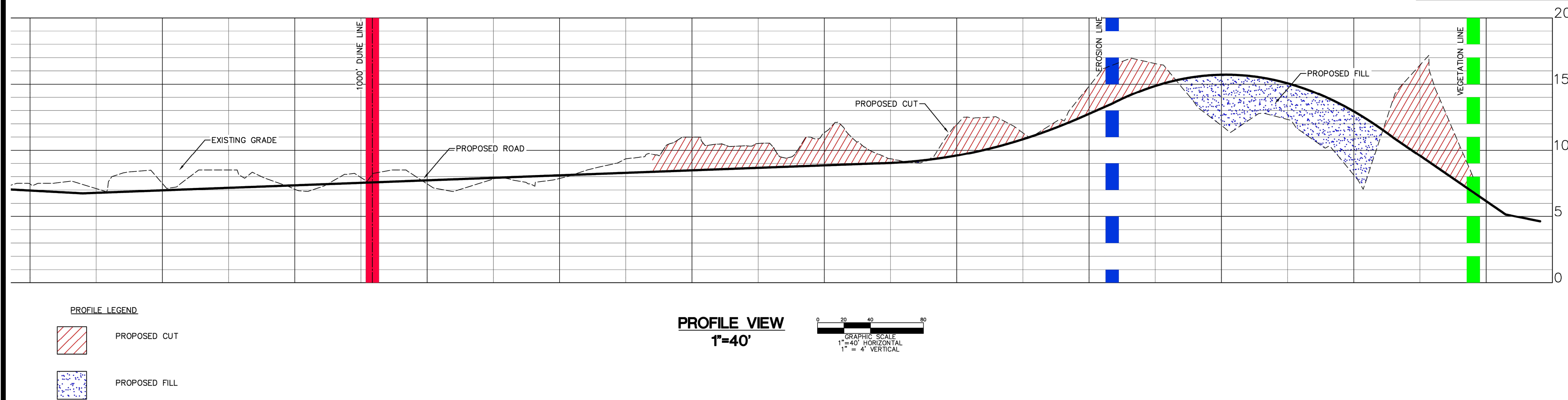
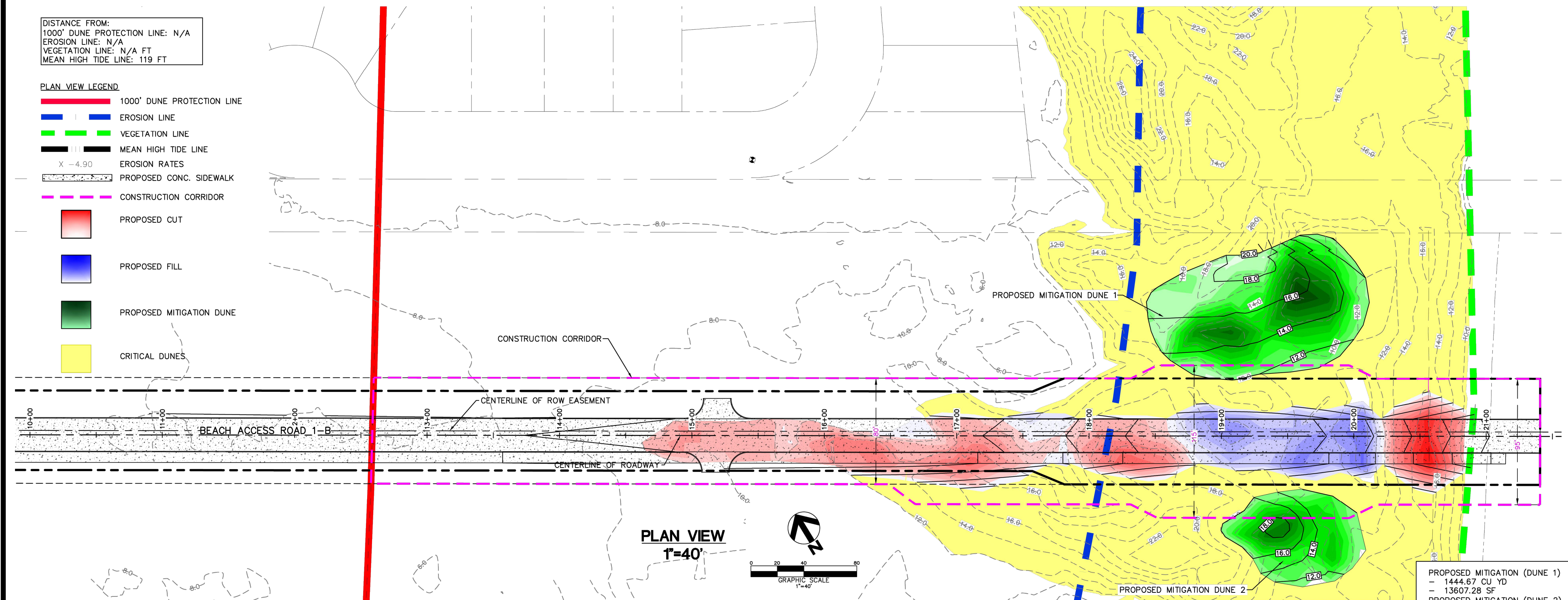
### CONSTRUCTION PLANS FOR BEACH ACCESS ROAD 1B CITY OF PORT ARANSAS, TEXAS



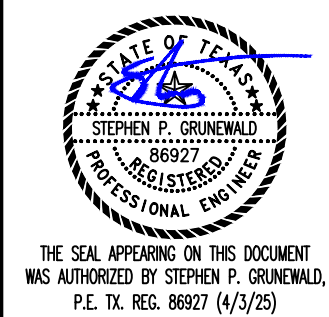
TBPELS FIRM NUMBERS: ENGINEERING 145 | SURVEYING 10032400  
2725 SWANTNER DR., CORPUS CHRISTI, TX 78404  
PHONE 361.654-3101 URBAN.DCCM.COM

**SHEET**  
**17**  
OF **18**

**JOB NO.**  
**02578**



|                                                                                                                                                                                     |                                                                    |                                                                                                                |                                          |                           |                          |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|------------------------------------------|---------------------------|--------------------------|
| <p><b>Urban</b></p> <p>1801 E. FIVE MILE, SUITE 100, ARLINGTON, TX 76010<br/>         2725 SWARTZ, DOW CORPUS CHRISTI, TX 78404<br/>         PHONE: 361.854.3101 URBAN.DCCM.COM</p> | <p><b>ATTACHMENT 4</b></p> <p><b>IMPACTS &amp; MITIGATION</b></p>  | <p><b>SCALE: AS NOTED</b></p> <p><b>DRAWN: LAR</b></p> <p><b>CHECKED: CN</b></p> <p><b>DATE: OCT. 2024</b></p> | <p><b>REV. BY</b></p> <p><b>DATE</b></p> | <p><b>DESCRIPTION</b></p> | <p><b>APPROV. BY</b></p> |
| <p><b>ATTACHMENT 4</b></p>                                                                                                                                                          | <p><b>BEACH ACCESS ROAD 1-B DPP</b></p> <p>PORT ARANSAS, TEXAS</p> |                                                                                                                |                                          |                           |                          |
| <p><b>ATTACHMENT 4</b></p>                                                                                                                                                          | <p><b>JOB NO.</b></p> <p>00731</p>                                 |                                                                                                                |                                          |                           |                          |



## ATTACHMENT 4 IMPACTS & MITIGATION

**CONSTRUCTION PLANS FOR  
BEACH ACCESS ROAD 1-B  
CITY OF PORT ARANSAS, TEXAS**



TBP&LS FIRM NUMBERS: ENGINEERING 145 | SURVEYING 10032400  
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**SHEET**  
**18**  
OF 18

JOB NO.  
02578