

# South Padre Island Beach Walkovers

AT:

Aquarius Circle Beach Access #18  
Good Hope Circle Beach Access #21  
South Padre Island, Texas

OWNER:

City of South Padre Island  
4601 Padre Blvd  
South Padre Island, Texas

PROJECT & STRUCTURAL ENGINEER:  
GREEN, RUBIANO & ASSOCIATES  
1220 WEST HARRISON  
HARLINGEN, TEXAS 78550  
P: 956-428-4461  
F: 956-428-0287

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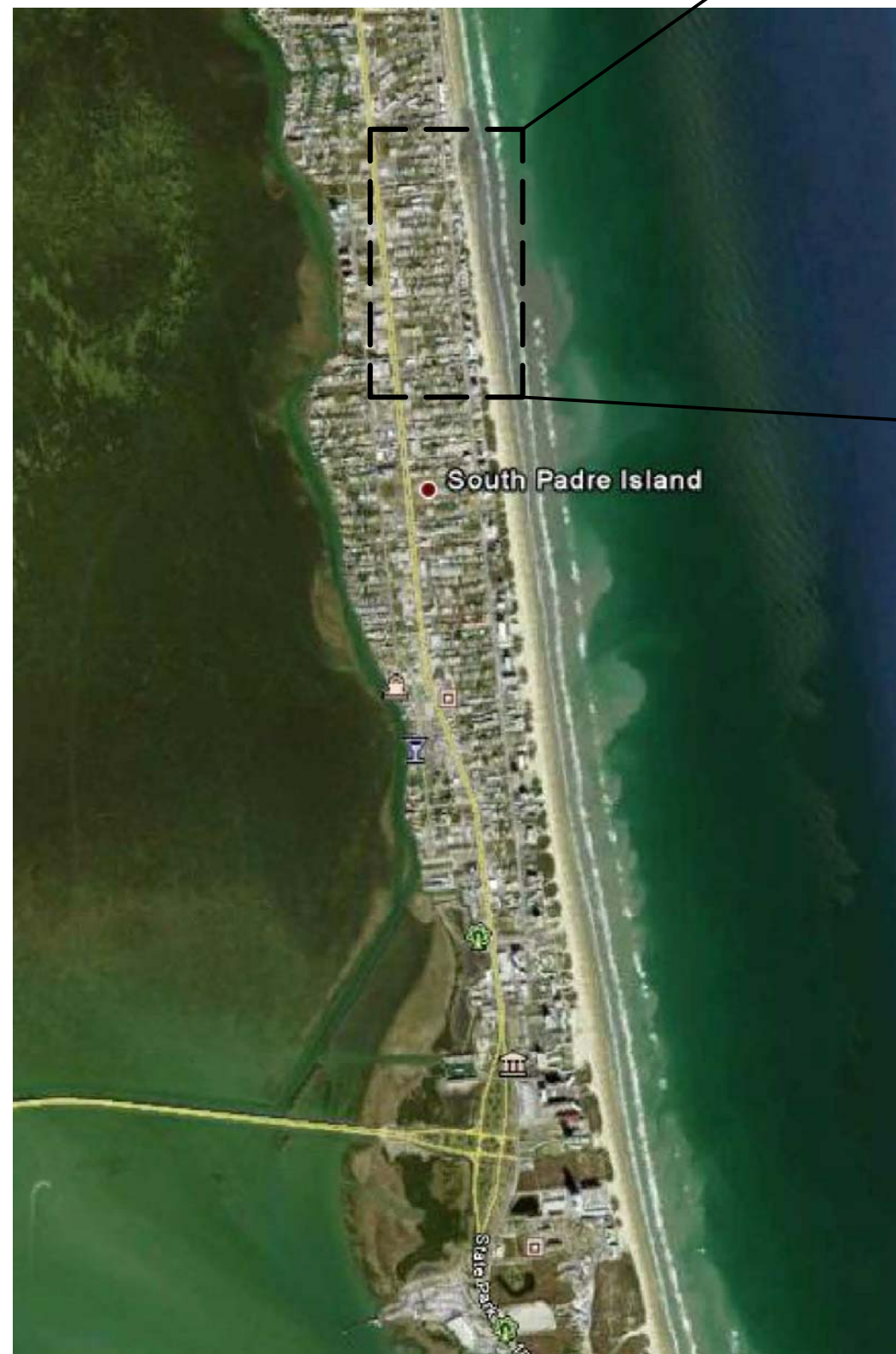
STRUCTURAL PLANS SHEET INDEX:

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CIVIL ENGINEER:  
MEJIA & ROSE, INCORPORATED  
1643 WEST PRICE ROAD  
BROWNSVILLE, TEXAS 78520  
P: 956-544-3022  
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CIVIL PLANS SHEET INDEX:

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SITE MAP

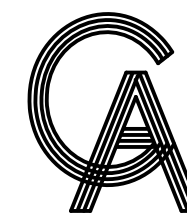
NOT TO SCALE



GOOD HOPE CIRCLE



AQUARIUS CIRCLE



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FIRM REGISTRATION #F-4145

SEAL



PROJECT

BEACH WALKOVERS  
AT AQUARIUS AND  
GOOD HOPE CIRCLES

SOUTH PADRE ISLAND,  
TEXAS

CLIENT

CITY OF  
SOUTH PADRE ISLAND



SOUTH PADRE ISLAND,  
TEXAS

P: 956-761-3044  
F: 956-761-3898

MARK	DATE	DESCRIPTION

PROJECT NO.	1065-06
DATE	05-27-11
DRAWN BY	RV, RC
CHECKED BY	HO
SCALE	AS SHOWN

SHEET TITLE

COVER SHEET

SHEET NO.

CS1.0





REF. D1.0 FOR DEMOLITION PLAN AND  
A1.0 FOR SITE PLAN AT AQUARIUS CIRCLE



REF. A1.1 FOR SITE PLAN AT  
GOOD HOPE CIRCLE

1

SITE AERIALS

N

N.T.S.

SCOPE OF PROJECT

SCOPE OF WORK IS DEFINED BY THE DRAWINGS AND SPECIFICATIONS, INCLUDES ALL SUPERVISION, LABOR, MATERIALS, EQUIPMENT, PERMITTING AND FEES TO ACCOMPLISH THE WORK. THE SCOPE INCLUDES, BUT IS NOT LIMITED TO:

1. IMPROVEMENTS & EXPANSION OF PARKING LOT AT AQUARIUS CIRCLE.
2. INSTALLATION OF NEW BEACH WALKOVER STUCTURE AT AQUARIUS CIRCLE.
3. PARKING LOT IMPROVEMENTS AT GOOD HOPE CIRCLE.
4. INSTALLATION OF NEW BEACH WALKOVER STRUCTURE AT GOOD HOPE CIRCLE.

CODE COMPLIANCE

1. ALL WORK PREFORMED SHALL BE COMPLETED IN ACCORDANCE WITH ALL STATE, FEDERAL, AND LOCAL CODES, ORDINANCES, AND LAWS, INCLUDING THE INTERNATIONAL BUILDING CODE 2006 EDITION.
2. ALL DEMOLITION MATERIAL SHALL BE PROPERLY DISPOSED OF IN A LANDFILL MEETING ALL FEDERAL, STATE, AND LOCAL REGULATORY REQUIREMENTS. CONTRACTOR SHALL PROVIDE PROPER DOCUMENTATION FROM LANDFILL INDICATING PROPER DISPOSAL OF DEMOLITION MATERIAL.

COORDINATION

1. THE CONTRACTOR SHALL COORDINATE WORK BETWEEN ALL TRADES. ANY CONFLICTS SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION PRIOR TO THE WORK BEING INSTALLED. FAILURE TO DO SO WILL MAKE THE CONTRACTOR RESPONSIBLE FOR THE COST OF THE WORK.

EXISTING CONDITIONS

1. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS. DIMENSIONS SHOWN ON THE PLANS ARE APPROXIMATE. CONTRACTOR SHALL OBTAIN ALL FIELD MEASUREMENTS AS NECESSARY TO COORDINATE NEW CONSTRUCTION TO EXISTING CONDITIONS.
2. IF EXISTING CONDITIONS DIFFER FROM THE DRAWINGS, INFORM THE ENGINEER AND ADDITIONAL DETAILS OR INTERPRETATION WILL BE PROVIDED. DO NOT PROCEED WITHOUT VERIFICATION.

3. THE CONTRACTOR SHALL VISIT THE SITE OF THE PROPOSED WORK AND FULLY ACQUAINT THEMSELVES WITH THE EXISTING CONDITIONS.

4. IT IS THE GENERAL CONTRACTOR'S RESPONSIBILITY TO LOCATE ALL UNDERGROUND UTILITIES, INCLUDING STORM SEWER SYSTEM LINES, WASTE WATER LINES, IRRIGATION LINES, ETC., PRIOR TO MOBILIZATION AND COMMENCEMENT OF WORK. CONTACT ALL CITY OF SOUTH PADRE ISLAND MUNICIPALITIES AS REQUIRED TO LOCATE UNDERGROUND UTILITIES. ANY COSTS TO REPAIR DAMAGES IF UTILITIES ARE NOT PROPERLY IDENTIFIED, ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

DOCUMENTATION OF PRE-CONSTRUCTION PHOTOGRAPHS

1. THE CONTRACTOR SHALL PHOTOGRAPH AND/OR VIDEO DOCUMENT AND TAKE WRITTEN NOTES OF EXISTING CONDITIONS PRIOR TO THE COMMENCEMENT OF THE WORK ON THE SITE. COPIES OF ALL DOCUMENTATION TO BE PRESENTED TO THE OWNER/ENGINEER PRIOR TO COMMENCING WORK.

PROTECTION OF EXISTING ADJACENT BUILDINGS

1. CONTRACTOR SHALL TAKE THE PROPER PRECAUTIONS NOT TO DAMAGE ADJACENT BUILDINGS DURING DEMOLITION.
2. THE CONTRACTOR SHALL TAKE PROPER PRECAUTION TO PROTECT ALL ADJACENT EXISTING TREES, LANDSCAPING, SITE LIGHTING, SIDEWALKS, AND SITE FEATURES FROM DAMAGE THROUGHOUT COURSE OF WORK. IF DAMAGED DURING THE COURSE OF THE WORK, REPAIR TO PRE-CONSTRUCTION CONDITION PRIOR TO COMPLETION OF THE PROJECT.

SAFETY

1. PERFORM ALL WORK IN A SAFE AND CONSCIENTIOUS MANNER TO PREVENT INJURIES.
2. CONTRACTOR SHALL MAINTAIN OSHA STANDARDS FOR JOB SAFETY AND WORKER PROTECTION, INCLUDING, BUT NOT LIMITED TO ADEQUATE PROTECTION, BARRICADES, SIGNS, ETC.
3. PEDESTRIAN PROTECTION REQUIREMENTS: PROVIDE CANOPY AND/OR BARRICADES AT SIDEWALKS AND OTHER PUBLICLY ACCESSIBLE AREAS WHICH MAY BE SUBJECT TO FALLING DEBRIS FROM THE WORK. COORDINATE ACCESS REQUIREMENTS WITH OWNER. BARRICADES AND CANOPY SHALL MEET OR EXCEED THE APPLICABLE REQUIREMENTS OF FEDERAL, STATE AND LOCAL LAWS, CODES, AND REGULATIONS OF AUTHORITIES HAVING JURISDICTION. AS A MINIMUM, CANOPY SHALL COMPLY WITH SECTION 3306, "PROTECTION OF PEDESTRIANS" OF THE 2006 EDITION OF THE INTERNATIONAL BUILDING CODE (IBC). UPON COMPLETION OF REMOVAL OF CANOPY AND BARRICADES, LEAVE PROPERTY IN GOOD CONDITION AS IT WAS PRIOR TO COMMENCEMENT OF WORK.
4. ALL CONSTRUCTION MATERIALS SHALL BE LOCKED-UP OR PLACED INSIDE A LOCKED CONSTRUCTION FENCE TO ENSURE MATERIALS DO NOT BECOME WINDBORNE OR CAUSE INJURY TO RESIDENTS, VISITORS OR PUBLIC.

TEMPORARY FACILITIES

1. COORDINATE LOCATION AND PLACEMENT OF FIELD OFFICE, MATERIAL STORAGE, PORTABLE TOILET, DUMPSTERS, ETC. WITH OWNER PRIOR TO CONSTRUCTION.

USE OF THE PREMISES

1. EQUIPMENT ACCESS TO BE SCHEDULED WITH OWNERS REPRESENTATIVE 48 HOURS IN ADVANCE.
2. TYPICAL HOURS OF WORK: 7:00 AM – 7:00 PM – MONDAY – SUNDAY, UNLESS ARRANGEMENTS MADE WITH OWNER'S REPRESENTATIVE. PRIOR TO COMMENCING WORK, COORDINATE HOURS OF WORK WITH THE OWNER TO MINIMIZE IMPACT TO THE SITE'S DAY-TO-DAY OPERATIONS.
3. MAINTAIN PUBLIC ACCESS FOR THE DURATION OF THE PROJECT, OR AS REQUIRED BY OWNER.
4. AN ON-SITE STORAGE AREA IS TO BE ESTABLISHED DURING CONSTRUCTION. STORAGE IS TO BE PROTECTED IN A SECURE WEATHERPROOF LOCATION TO PREVENT DAMAGE TO THE CONTENTS.
5. PROVIDE REGULAR SITE CLEAN UP. STORE MATERIALS IN A NEAT AND ORDERLY MANNER.
6. DO NOT PLACE LOADS ON THE EXISTING ADJACENT STRUCTURES OR STORE DEMOLISHED MATERIALS ON THE STRUCTURES IN A MANNER THAT WILL DAMAGE THEM.
7. WORKERS SHALL BE PROPERLY DRESSED AND DISPLAY APPROPRIATE BEHAVIOR AT ALL TIMES IN CONSTRUCTION AND ADJACENT AREAS.
8. REPAIR/RESTORE DAMAGED LAWN OR OTHER LANDSCAPING AT COMPLETION OF THE WORK AT NO COST TO OWNER.

SITE MAINTENANCE

1. MAINTAIN AREAS FREE OF WASTE MATERIALS, DEBRIS, AND RUBBISH.

2. MAINTAIN SITE IN A CLEAN AND ORDERLY CONDITION. AREAS USED AS PATHWAYS TO TRANSPORT MATERIALS OR TO REMOVE TRASH THAT ARE NOT DIRECTLY UNDER CONSTRUCTION ARE TO BE KEPT CLEAN. THIS SHALL INCLUDE BUT NOT BE LIMITED TO DUSTING, SWEEPING AND MOPPING.

FIRE PROTECTION

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FIRE PROTECTION AND FIRE WATCH DURING ALL CONSTRUCTION OPERATIONS.
2. NO SMOKING SHALL BE PERMITTED AT THE SITE. CONTRACTOR SHALL PROVIDE AND MAINTAIN TEMPORARY FIRE EXTINGUISHERS UNTIL SUBSTANTIAL COMPLETION.


HAZARDOUS MATERIALS ABATEMENT/ MANAGEMENT

1. THE ENGINEER HAS NO RESPONSIBILITY OR LIABILITY FOR DESIGN, REMOVAL OF, OR TESTING FOR ASBESTOS/LEAD, OR FOR ABATEMENT /MANAGERIAL TREATMENTS, MONITORING, AND LEGAL DISPOSAL OF MATERIALS, AND SHALL INCLUDE COSTS THEREOF IN THE BID.



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PROJECT

**BEACH WALKOVERS  
AT AQUARIUS AND  
GOOD HOPE CIRCLES**

**SOUTH PADRE ISLAND,  
TEXAS**

CLIENT

**CITY OF  
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**SOUTH PADRE ISLAND,  
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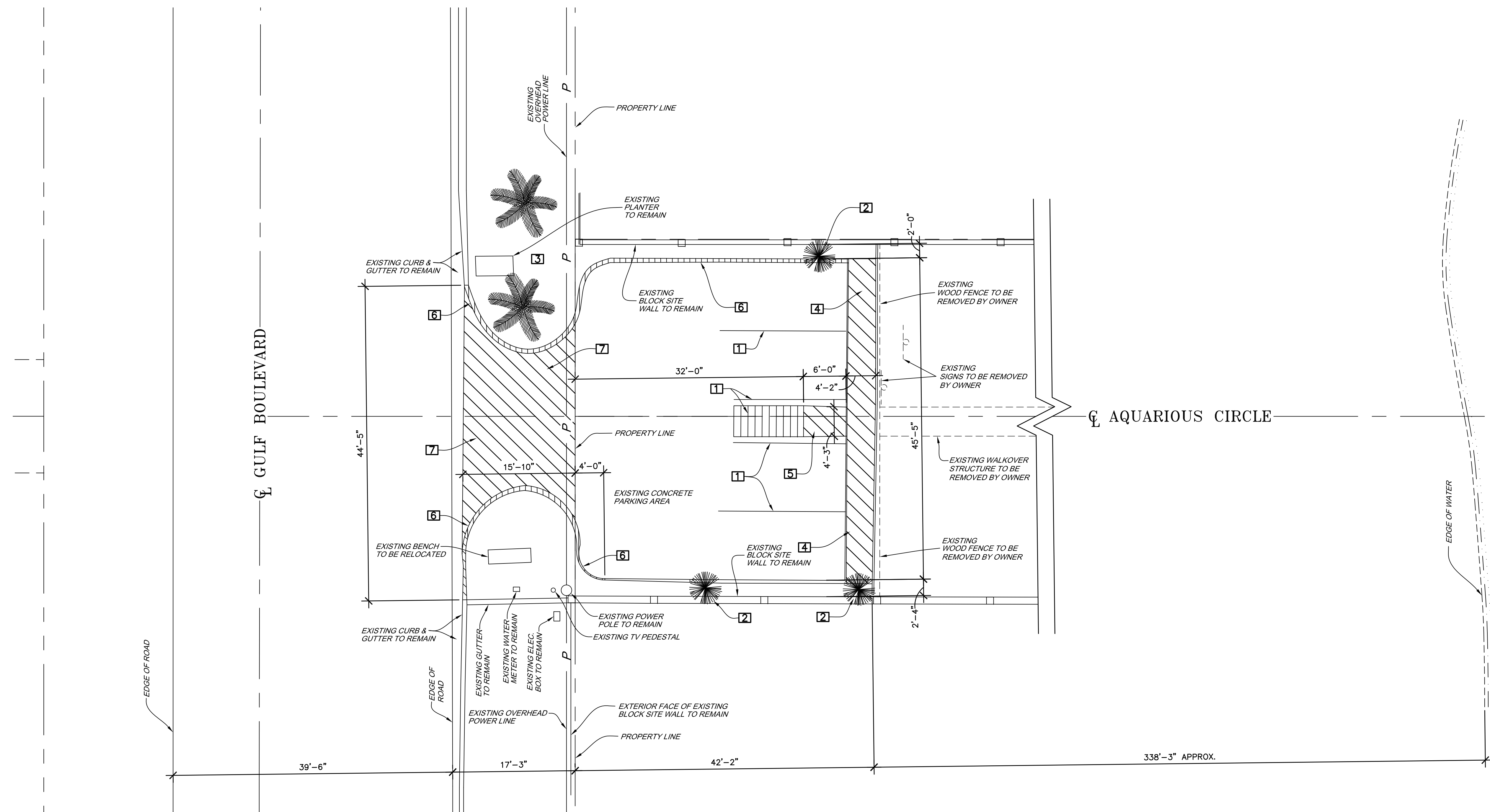
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SHEET TITLE	

**SITE AERIALS AND  
GENERAL NOTES**

SHEET NO.

AS1.0





CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS & EXISTING CONDITIONS IN THE FIELD. CONTACT ENGINEER IF CONDITIONS VARY FROM THOSE SHOWN ON THE DRAWINGS.

1

DEMOLITION PLAN

1/8" = 1'-0"

AQUARIUS CIRCLE  
BEACH ACCESS #18

N

NOTES:

1.

GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING AND DISPOSING DEBRIS & MATERIAL AWAY FROM SITE ACCORDING TO GOVERNING LOCAL, STATE OR FEDERAL REGULATIONS.

2.

GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR VISITING THE PROJECT SITE TO DETERMINE DEMOLITION REQUIREMENTS AT THIS PROJECT. CONTRACTOR SHALL INCLUDE IN THEIR BID ALL THE DEMOLITION REQUIREMENTS TO COMPLETE THIS PROJECT.

3.

GENERAL CONTRACTOR SHALL LOCATE AND LABEL ALL UTILITIES BEFORE COMMENCEMENT OF DEMOLITION & CONSTRUCTION ACTIVITIES. UTILITIES SHALL BE CLEARLY MARKED SO THAT ANY SUBCONTRACTOR VISITING THIS SITE CAN EASILY IDENTIFY UTILITIES.

4.

GENERAL CONTRACTOR SHALL REPAIR ANY AREA DAMAGED DURING CONSTRUCTION TO THE SATISFACTION OF THE OWNER.

5.

GENERAL CONTRACTOR SHALL COORDINATE WITH ENGINEER ITEMS THAT ARE UNCLEAR PRIOR TO ANY DEMOLITION.

6.

INDICATES DEMOLITION AREA.

7.

VERIFY WITH OWNER WHICH PLANTS ARE TO REMAIN UNDISTURBED, WHICH ARE TO BE SALVAGED AND RELOCATED, AND WHICH ARE TO BE REMOVED AND DISCARDED.

- DEMOLITION KEYED NOTES
- 1

EXISTING PARKING STRIPING TO BE REMOVED
- 2

EXISTING SHRUB TO BE REMOVED & RETURNED TO OWNER
- 3

EXISTING TREES & LANDSCAPED AREA TO REMAIN
- 4

EXISTING CONCRETE SIDEWALK TO BE DEMOLISHED & REMOVED
- 5

EXISTING CONCRETE RAMP TO BE DEMOLISHED & REMOVED
- 6

EXISTING CONCRETE CURB TO BE DEMOLISHED & REMOVED
- 7

EXISTING CONCRETE ENTRY TO BE DEMOLISHED & REMOVED

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5/27/11

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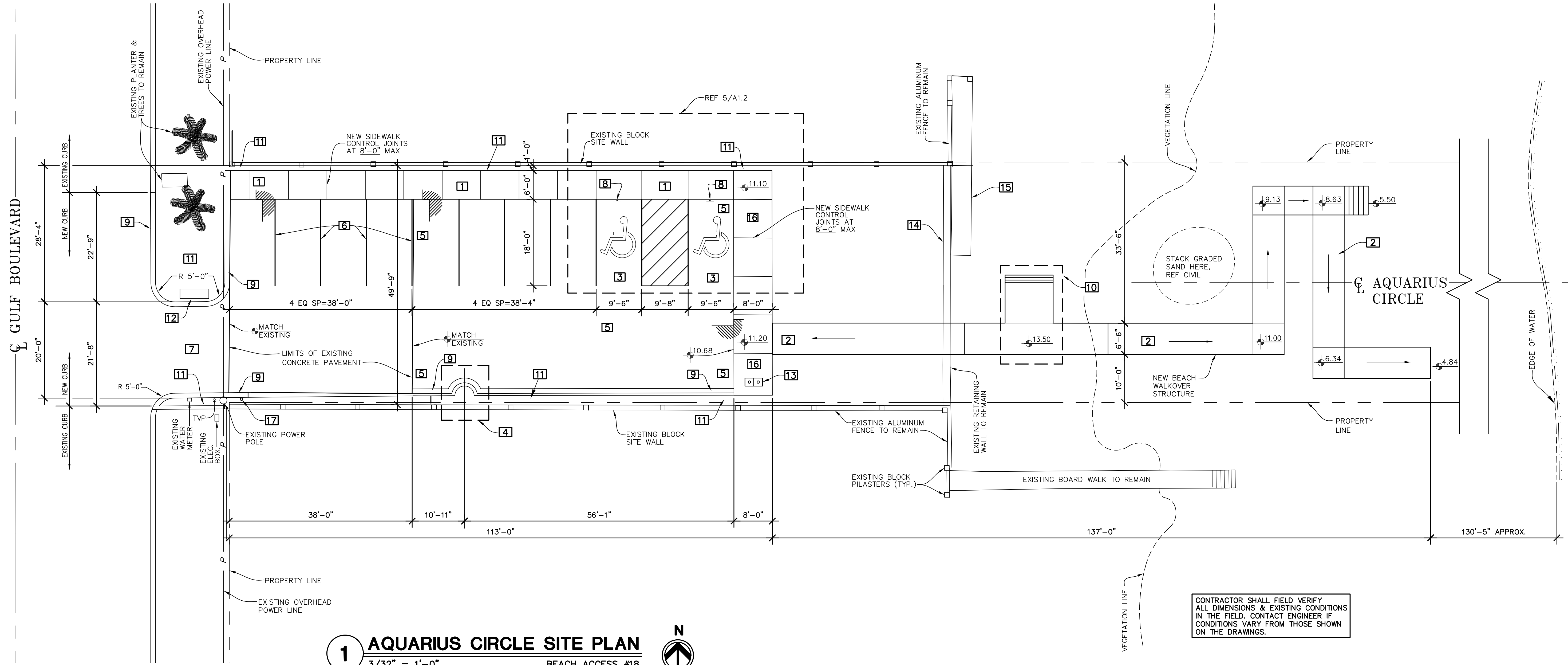
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DEMOLITION PLAN  
AQUARIUS CIRCLE

SHEET NO.

D1.0



1

AQUARIUS CIRCLE SITE PLAN

3/32" = 1'-0"      BEACH ACCESS #18

- NOTES:
- SIDEWALK SLOPE IS NOT TO EXCEED 1:20 WITH A CROSS SLOPE OF 1:50 AT ANY INSTANCE. REFER TO CIVIL DRAWINGS FOR ADDITIONAL REQUIREMENTS.
  - REFER TO CIVIL DRAWINGS FOR ADDITIONAL SCOPE TO BE PERFORMED UNDER THIS CONTRACT.
  - REFER TO CIVIL DRAWINGS FOR GRADING PLAN & TOPOGRAPHIC SURVEY.
  - ALL NEW PARKING STRIPING IS TO BE 4" WIDE.

- 1

NEW 6'-0" WIDE CONCRETE SIDEWALK, REFERENCE DETAILS 1, 2 & 3/A1.2
- 2

NEW BEACH WALKOVER STRUCTURE, REFERENCE 1/S2.1
- 3

NEW HANDICAP ACCESSIBLE PARKING SPACES, REFERENCE DETAIL 5/A1.2
- 4

FUTURE LIGHT POLE ENLARGED PLAN, REFERENCE 4/A1.3
- 5

NEW CONCRETE BRICK PAVERS WITH PATTERNED STRIPING & HANDICAP SYMBOLS, REF. CIVIL DRAWINGS
- 6

NEW 4" WIDE WHITE STRIPING ON EXISTING CONCRETE PAVEMENT
- 7

NEW CONCRETE TRAFFIC APRON, REFERENCE CIVIL DRAWINGS
- 8

NEW HANDICAP PARKING SIGN, REFERENCE 4/A1.2
- 9

NEW CONCRETE CURB & GUTTER, REF. CIVIL DRAWINGS
- 10

REFERENCE 8/A1.2 FOR WASH/REST PLATFORM ENLARGED PLAN
- 11

NEW LANDSCAPE AREA TO BE DEVELOPED AS DIRECTED BY OWNER, REFERENCE ALLOWANCES
- 12

EXISTING BENCH TO BE RELOCATED AT SHOWN LOCATION
- 13

NEW DRINKING FOUNTAINS, PARK N' POOL MODEL 16DF-00015 OR EQUAL, COLOR TO BE SELECTED BY OWNER
- 14

EXISTING CONCRETE SEAWALL TO REMAIN
- 15

EXISTING WOOD BOARDWALK TO REMAIN
- 16

NEW 8'-0" WIDE CONCRETE SIDEWALK, REFERENCE DETAILS 1, 2 & 3/A1.2
- 17

NEW TIMBER POLE WITH NEW METER BOX AND DISCONNECT PANEL, COORDINATE ELECTRICAL REQUIREMENTS WITH OWNER

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SHEET NO.	A1.0	



SEAL



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## BEACH WALKOVERS AT AQUARIUS AND GOOD HOPE CIRCLES

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## 1 GOOD HOPE SITE PLAN

$$3/32'' = 1'-0''$$

BEACH ACCESS #2

NOTES:

1. SIDEWALK SLOPE IS NOT TO EXCEED 1:20 WITH A CROSS SLOPE OF 1:50 AT ANY INSTANCE. REFER TO CIVIL DRAWINGS FOR ADDITIONAL REQUIREMENTS.
2. REFER TO CIVIL DRAWINGS FOR ADDITIONAL SLOPE TO BE PERFORMED UNDER THIS CONTRACT.
3. REFER TO CIVIL DRAWINGS FOR GRADING PLAN & TOPOGRAPHIC SURVEY.
4. ALL NEW PARKING STRIPING IS TO BE 4" WIDE.

- 1** EXISTING ASPHALT PAVEMENT TO BE RESTRIPTED AS SHOWN; EXISTING STRIPING TO BE REMOVED
- 2** NEW HANDICAP ACCESSIBLE PARKING SPACES, REFERENCE 6/A1.2
- 3** NEW 6'-0" WIDE WALKING AREA w/ 4" WIDE PAINTED STRIPES SPACED AT 30" ON CENTER
- 4** NEW WHEEL STOPS TO BE PROVIDED BY OWNER
- 5** NEW HANDICAP PARKING SIGN, REFERENCE 4/A1.2
- 6** NEW 6'-0" WIDE CONCRETE SIDEWALK, REFERENCE DETAILS 1, 2 & 3/A1.2
- 7** NEW BEACH WALKOVER STRUCTURE, REFERENCE 1/S2.2
- 8** NEW 6'-0" WIDE CONCRETE SIDEWALK, REFERENCE DETAILS 1, 2 & 3/A1.2
- 9** REFERENCE 9/A1.2 FOR WASH/REST PLATFORM ENLARGED PLAN
- 10** EXISTING SIGN TO REMAIN
- 11** EXISTING CONCRETE RETAINING WALL TO REMAIN

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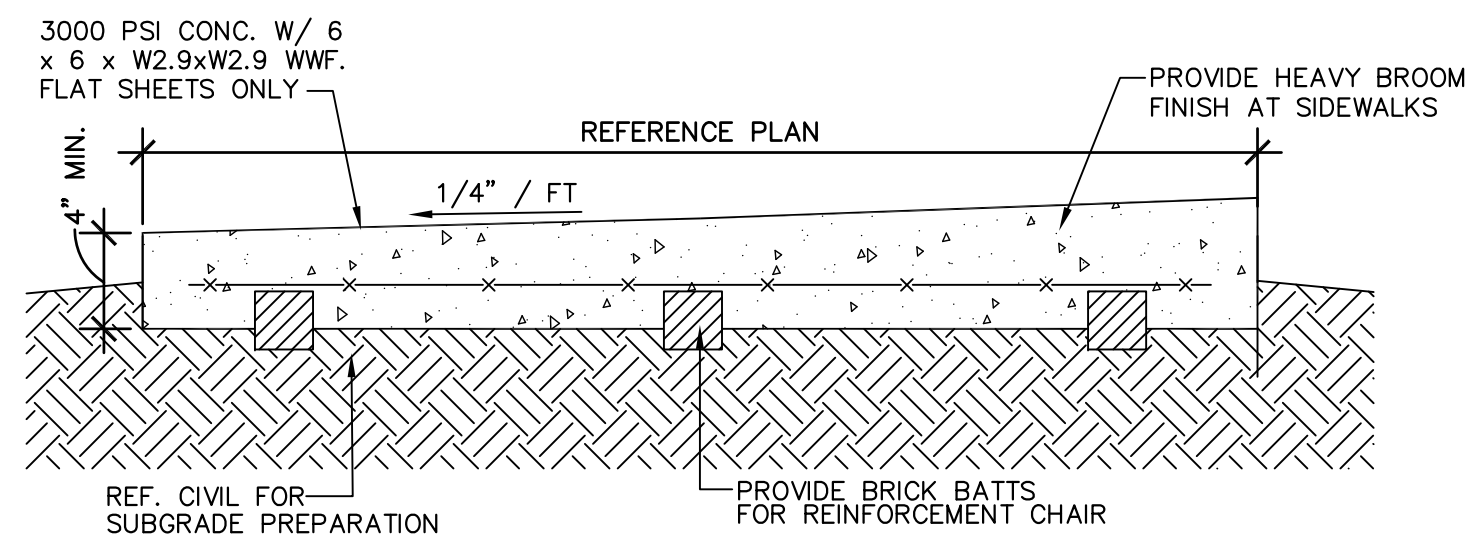
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**SITE PLAN  
GOOD HOPE CIRCLE**

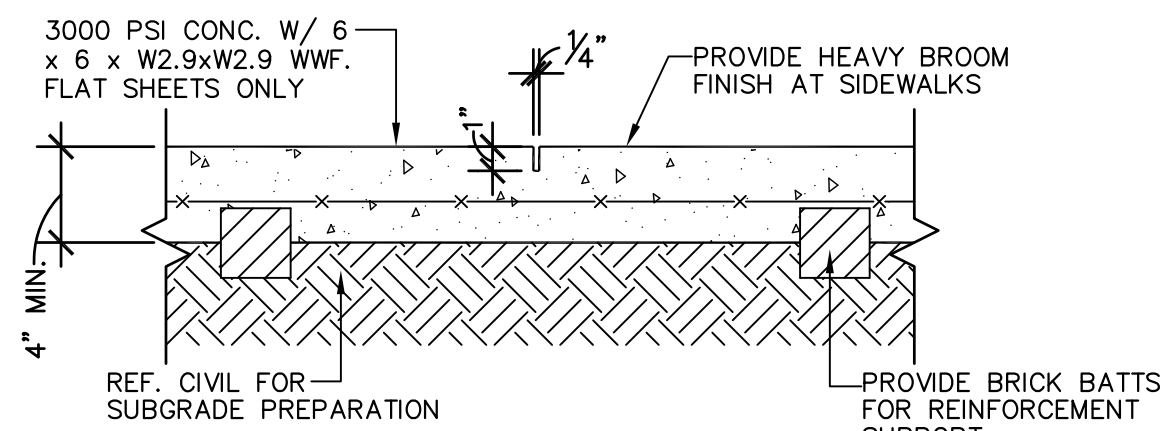
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## A1.1



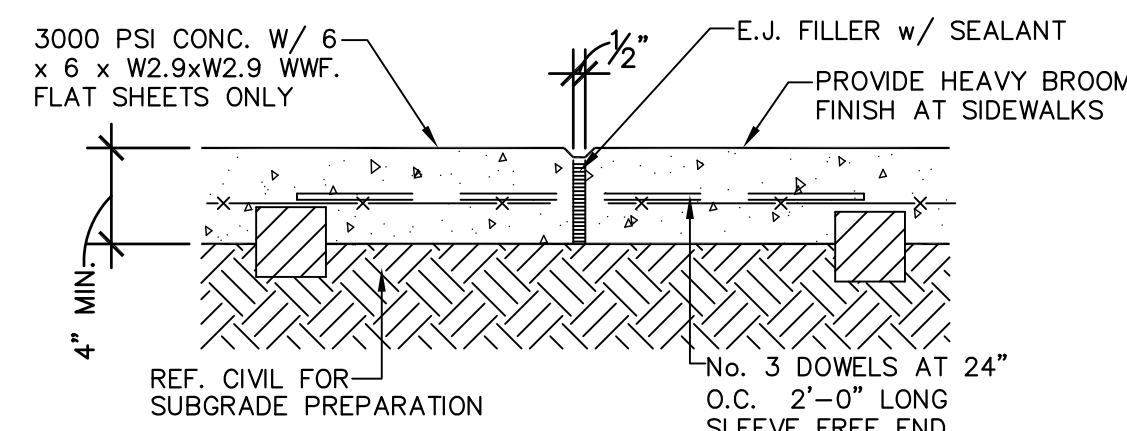


**1 SIDEWALK DETAIL**

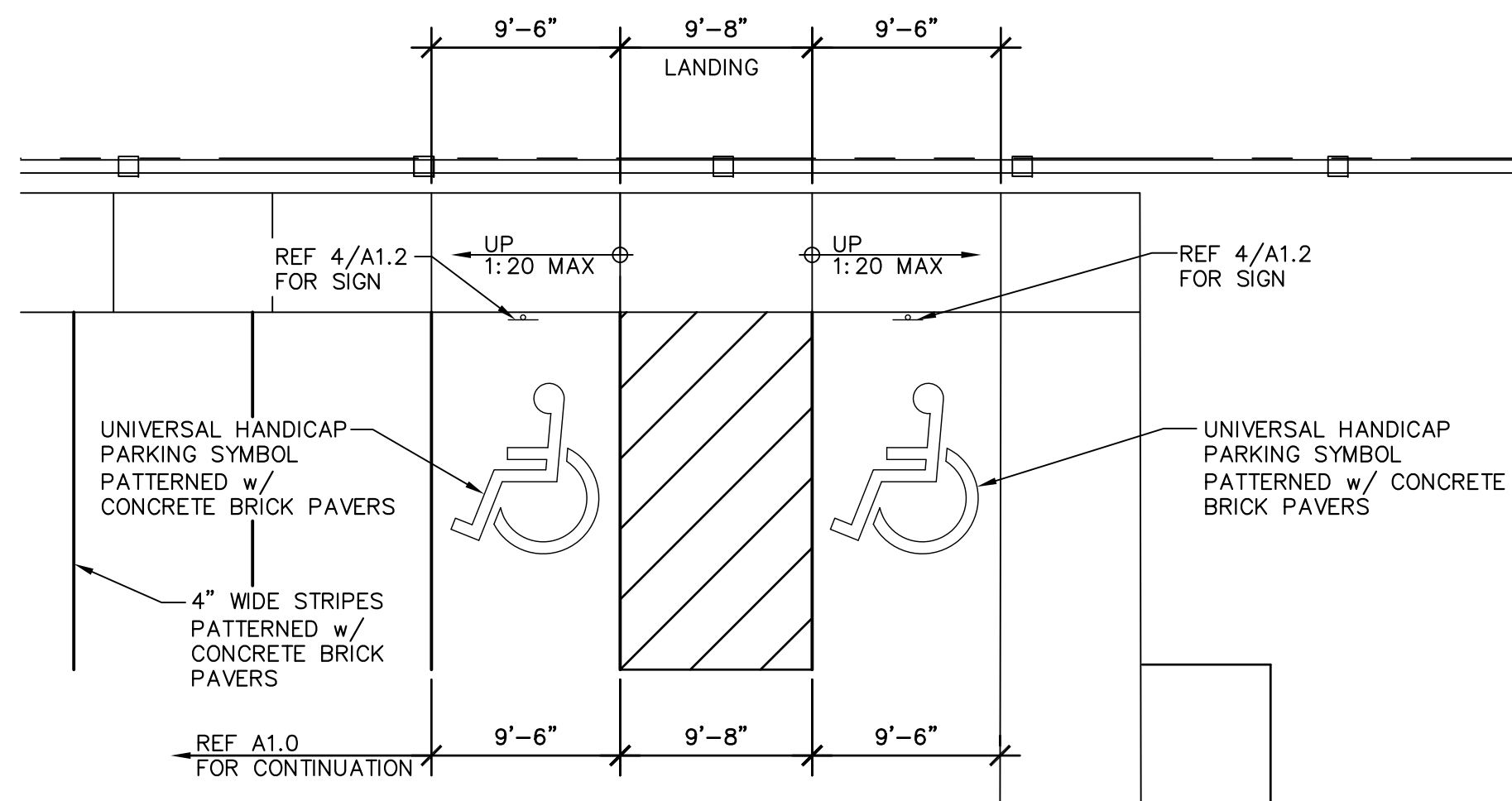


**2 SIDEWALK CONTROL JT.**

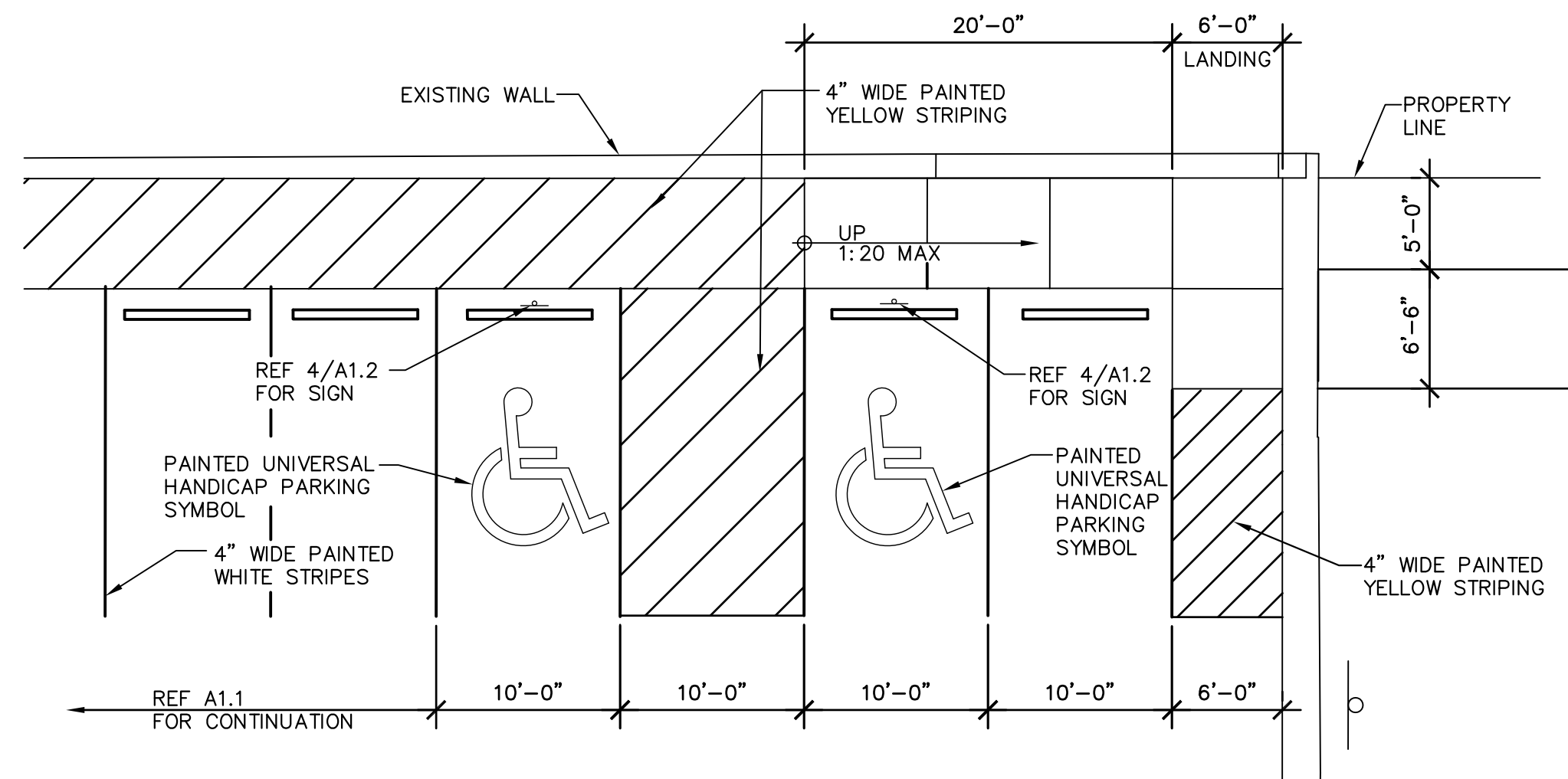
ALL CONTROL JOINTS SHALL BE FILLED WITH SONOLASTIC SL-1



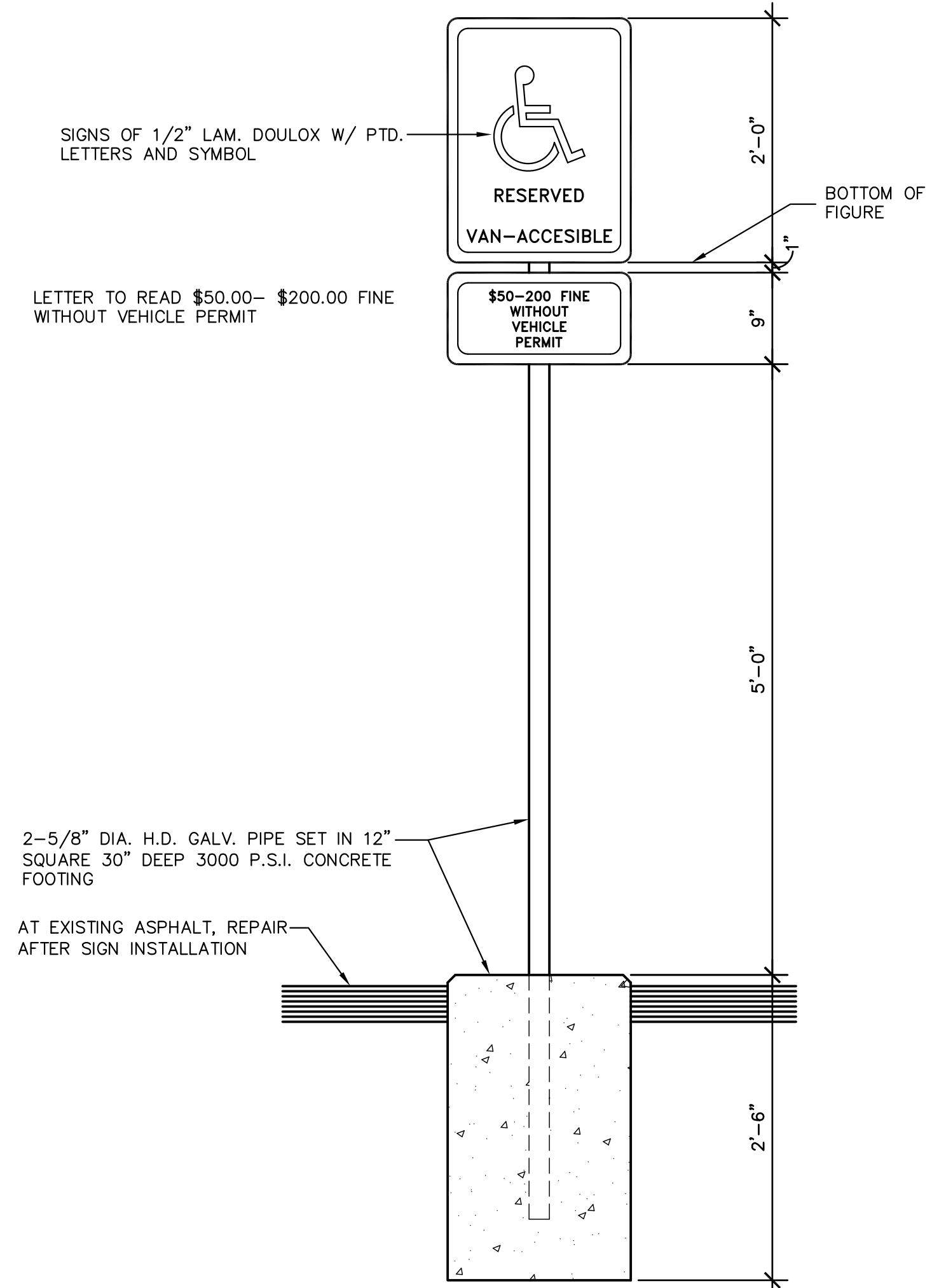
**3 SIDEWALK EXP. JT. DETAIL**



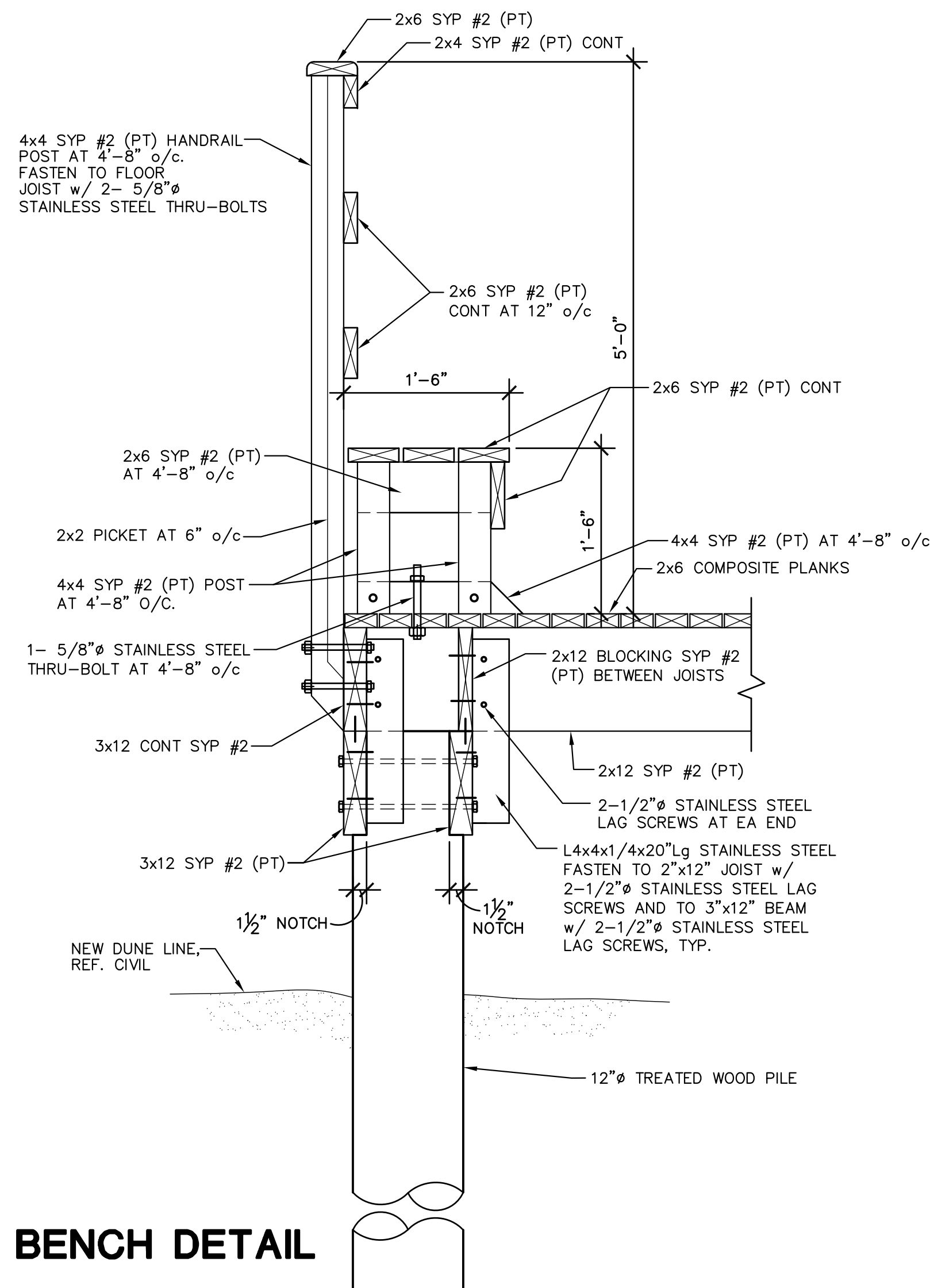
**5 SITE PLAN ENLARGEMENT**  
1/8" = 1'-0" AQUARIUS CIRCLE



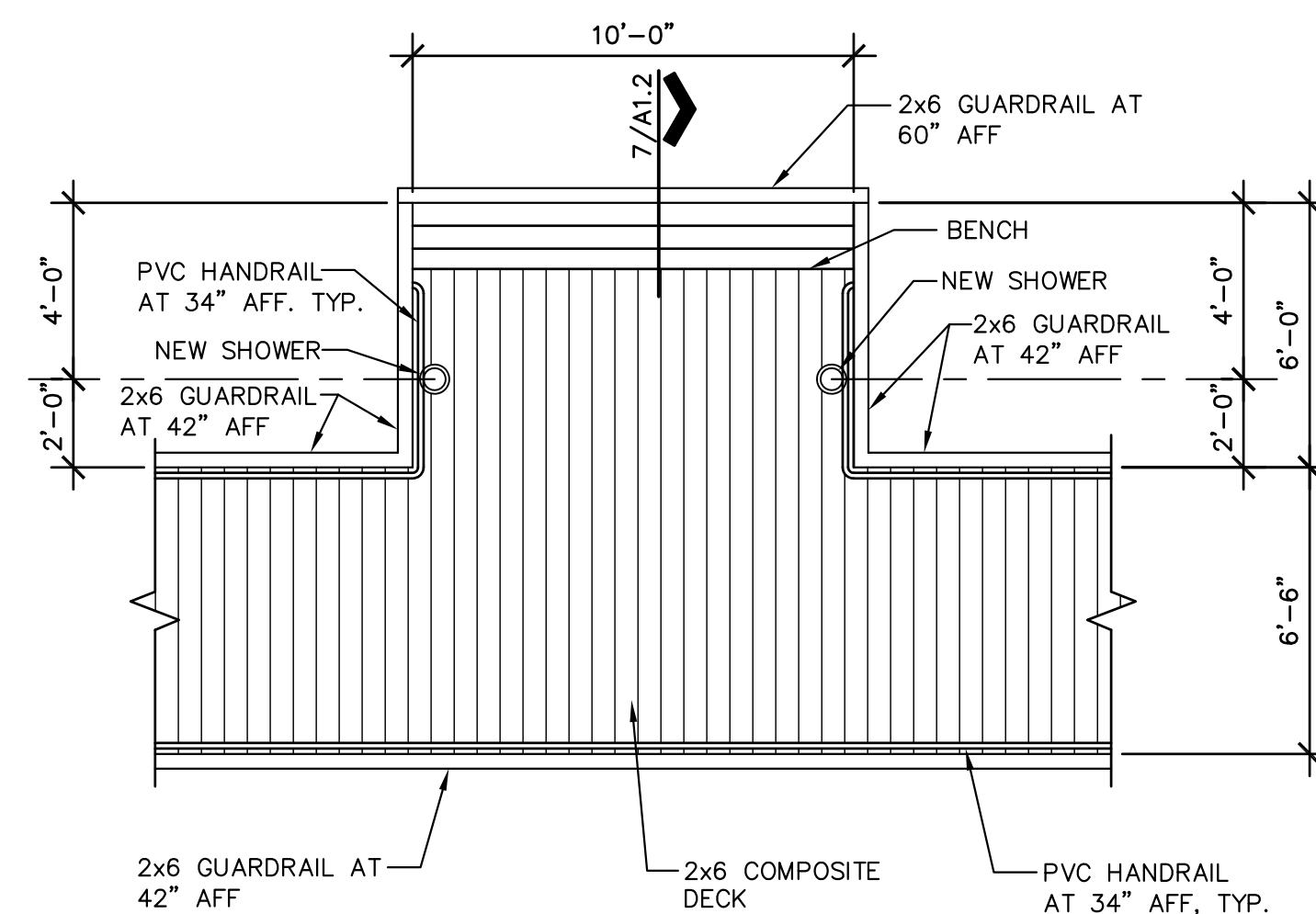
**6 SITE PLAN ENLARGEMENT**  
1/8" = 1'-0" GOOD HOPE CIRCLE



**4 SIGN/ANCHOR DETAIL**

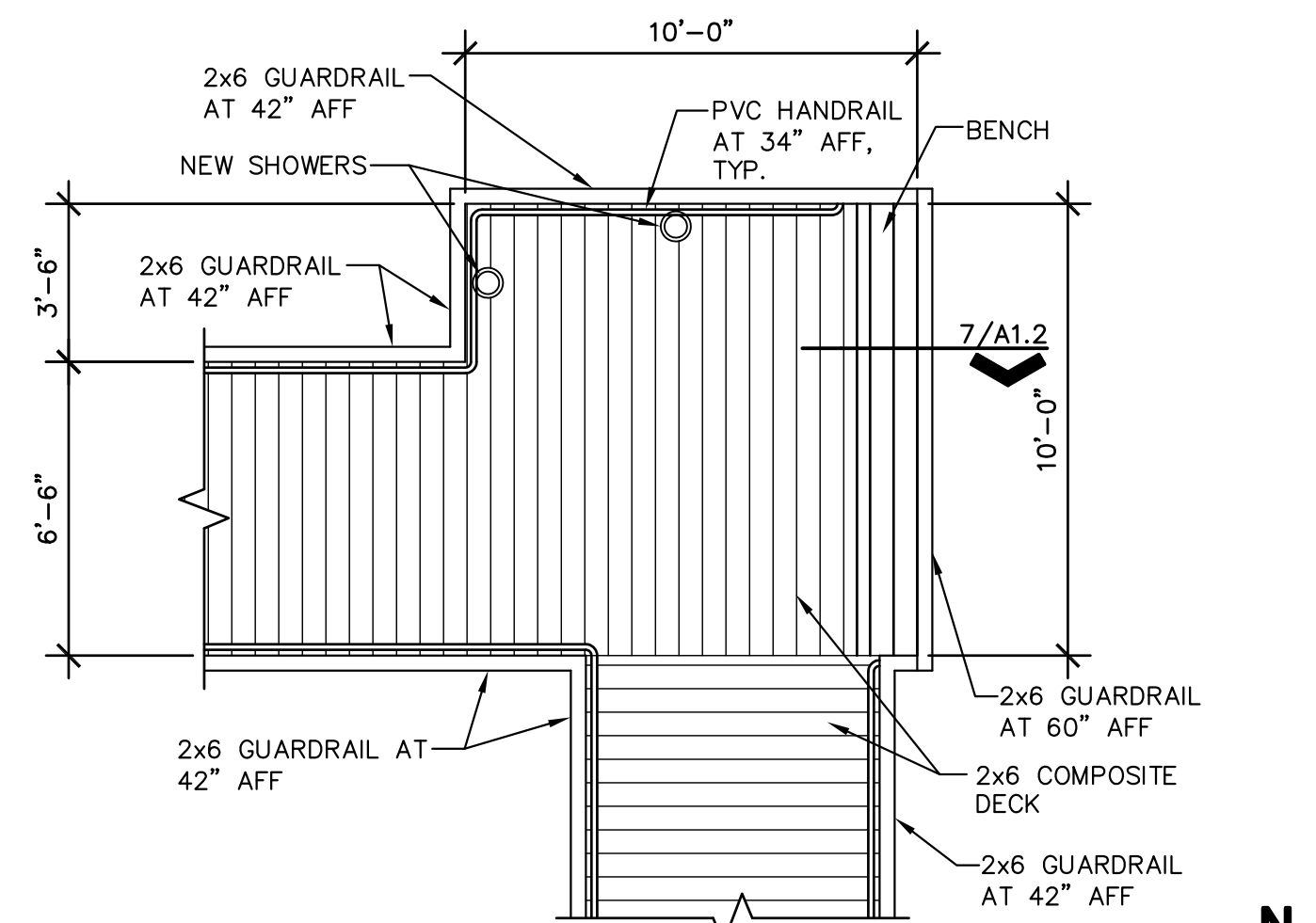


**7 BENCH DETAIL**



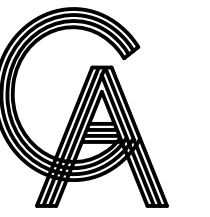
**8 WASH / REST PLATFORM**  
1/4" = 1'-0" AQUARIUS CIRCLE

1. SHOWERS TO BE PARK N' POOL MODEL 75SH-001 OR EQUAL. COLOR TO BE SELECTED BY OWNER.



**9 WASH / REST PLATFORM**  
1/4" = 1'-0" GOOD HOPE CIRCLE

1. SHOWERS ARE ADD ALTERNATE, REFERENCE ALTERNATE SCHEDULE. SHOWERS TO BE PARK N' POOL MODEL 75SH-001 OR EQUAL. COLOR TO BE SELECTED BY OWNER.



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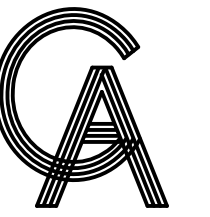
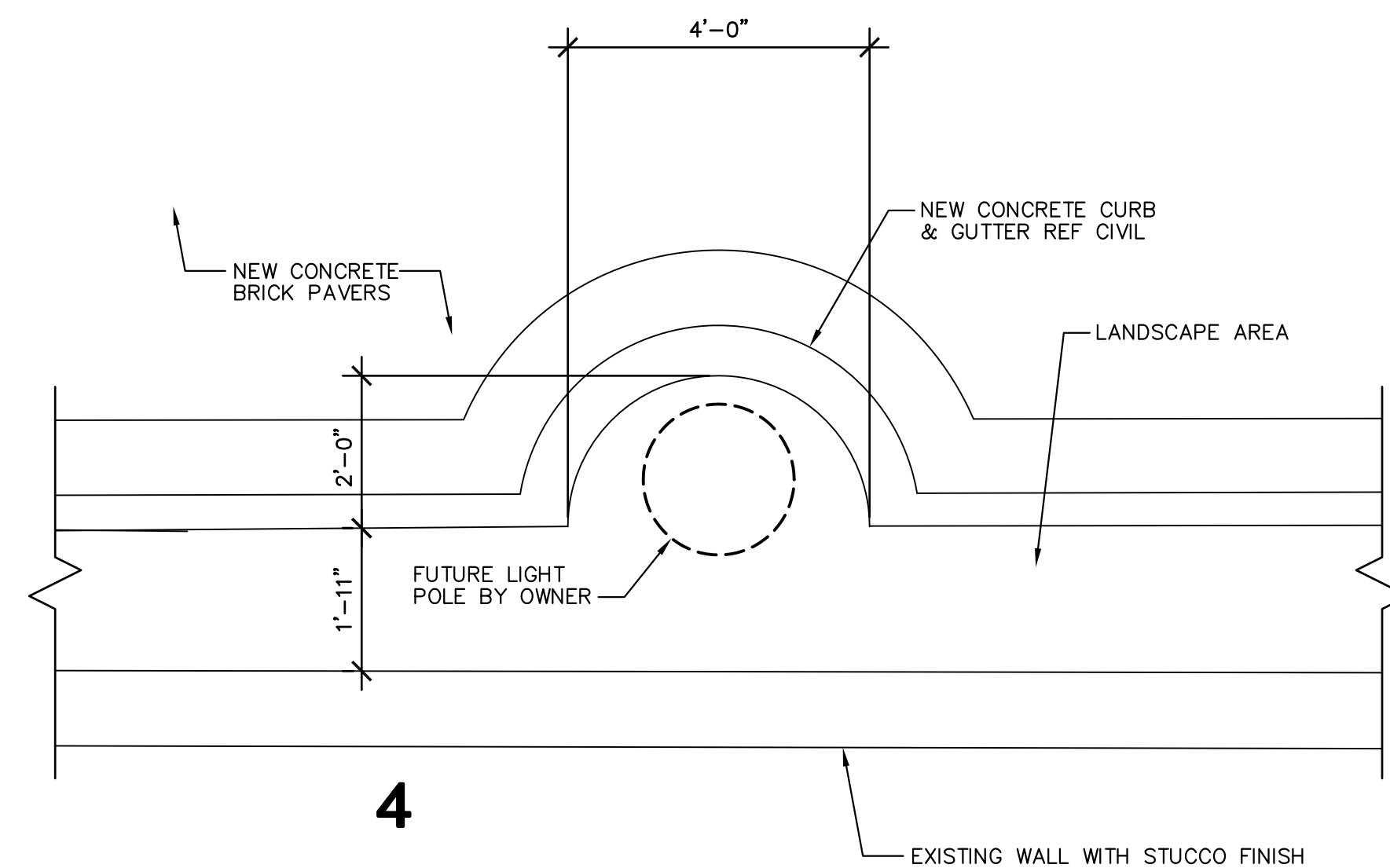
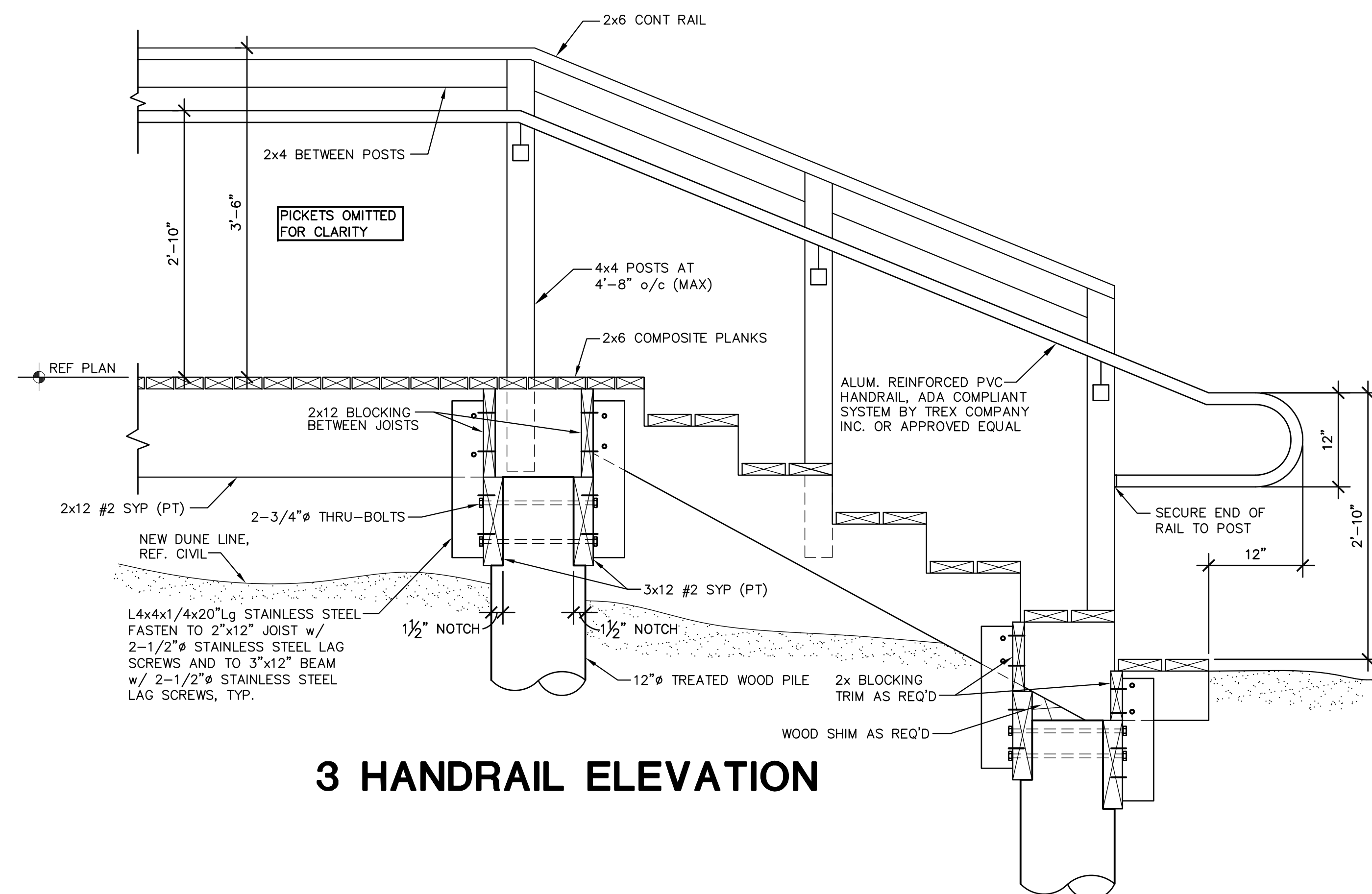
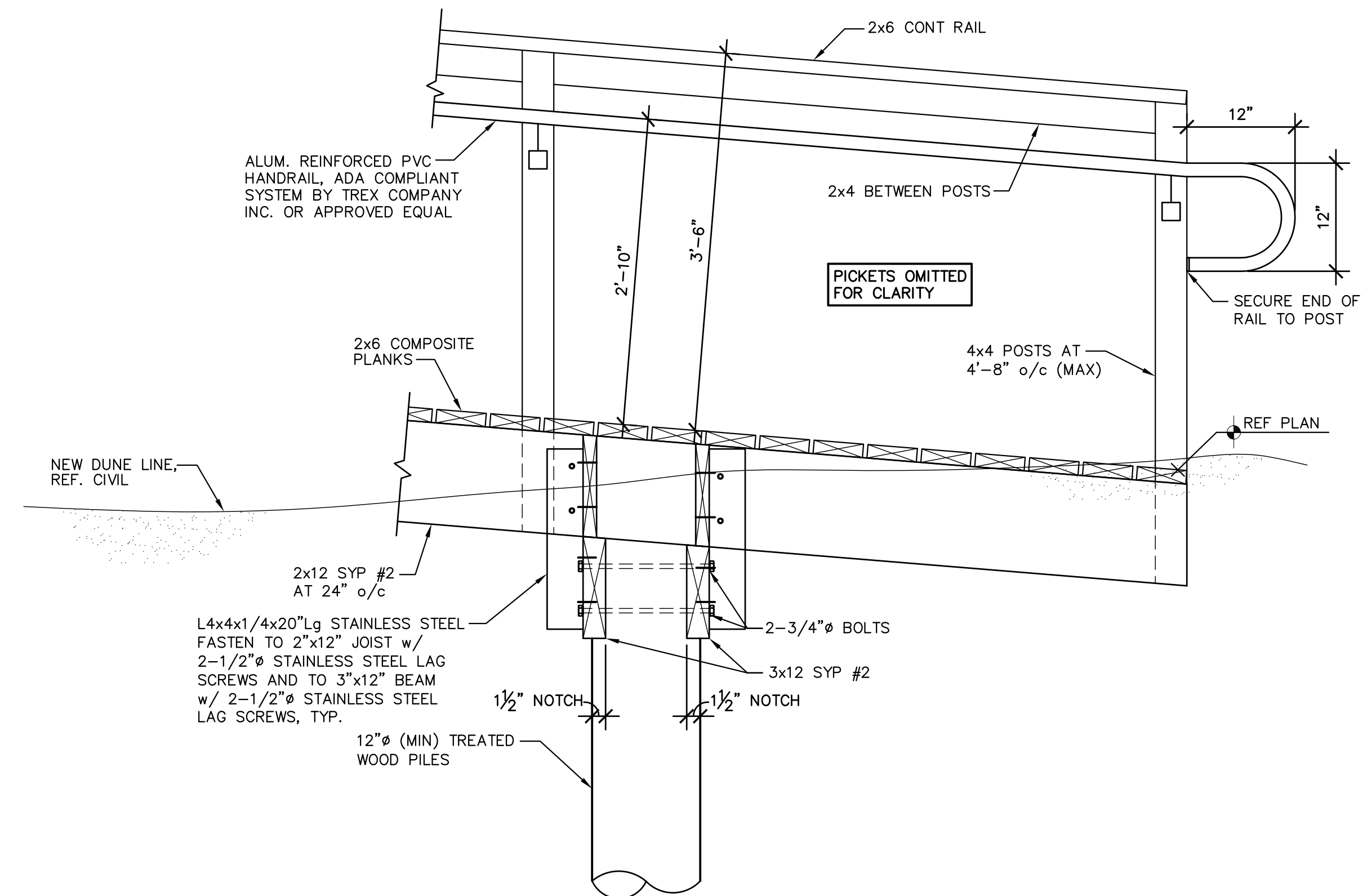
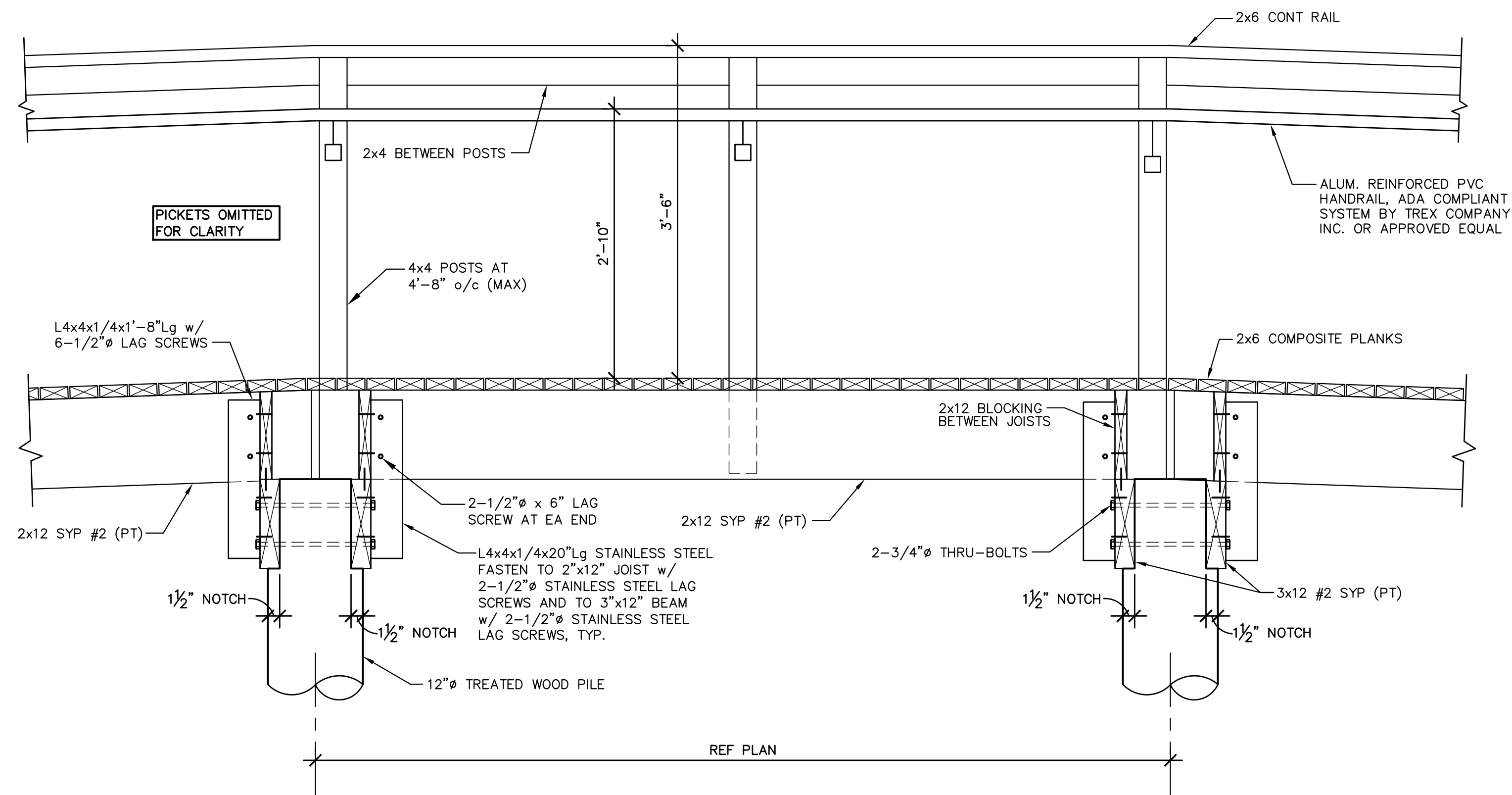
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**DETAILS**

SHEET NO.

**A1.2**





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**CITY OF  
SOUTH PADRE ISLAND**



**SOUTH PADRE ISLAND,  
TEXAS**

P: 956-761-3044  
F: 956-761-3898

MARK	DATE	DESCRIPTION

PROJECT NO.	1065-06
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SCALE	AS SHOWN

SHEET TITLE

## DETAILS

SHEET NO.

## A1.3



## GENERAL STRUCTURAL NOTES

THESE GENERAL NOTES SHALL APPLY UNLESS OTHERWISE SPECIFICALLY NOTED ON PLANS OR DETAILS. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND SHALL COORDINATE ALL STRUCTURAL PLANS AND DETAILS WITH ARCHITECTURAL & CIVIL DRAWINGS BEFORE STARTING WORK. THE ENGINEER SHALL BE NOTIFIED OF ANY DISCREPANCIES IMMEDIATELY. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR CONTRACTOR MEANS AND METHODS OF CONSTRUCTION OR SITE SAFETY, DESIGN, CONSTRUCTION, WORKMANSHIP AND MATERIALS SHALL COMPLY WITH THE CONTROLLING PROVISIONS OF THE 2009 EDITION OF THE INTERNATIONAL BUILDING CODE (IBC).

## DESIGN CRITERIA

1. LIVE LOAD ..... 100 PSF
2. WIND LOAD: BASED ON ASCE 7-05 REQUIREMENTS FOR 140 MPH WIND.
3. IMPORTANCE FACTOR ..... 1.00
4. EXPOSURE FACTOR ..... C
5. FOUNDATION DESIGN IS IN ACCORDANCE WITH THE INTERNATIONAL BUILDING CODE, AS USED. ALLOWED VALUES RECOMMENDED IN TABLE 1806.2 - PRESUMPTIVE LOAD BEARING VALUES, AS LISTED BELOW:  
  
 END BEARING CAPACITY (WOOD PILES) ..... 1,500 PSF  
  
 SKIN FRICTION (WOOD PILES) ..... 130 PSF
6. A GEOTECHNICAL ENGINEER SHALL BE RETAINED TO PERFORM TESTING AND INSPECTION DURING PLACEMENT OF WOOD PILES AS REQUIRED TO VERIFY PRESUMPTIVE LOAD-BEARING VALUES NOTED ABOVE.

### WOOD PILES

1. MAXIMUM DESIGN LOAD OF EACH PILE IS 6.0 KIPS.
2. PRIOR TO PILE PLACEMENT, THE CONTRACTOR SHALL PROVIDE THE ENGINEER DATA REGARDING THE PROPOSED HAMMER AND CUSHION SYSTEM.
3. PILES SHALL BE ASTM D-25, CLASS "C" TREATED, PEELED SOUTHERN YELLOW PINE OR DOUGLAS FIR. PILES SHALL BE CREOSOTED ACCORDING TO AWWA MANUAL STANDARDS C-3 WITH A MINIMUM RETENTION OF 12 POUNDS PER CUBIC FOOT.
4. PILES SHALL HAVE A MINIMUM BUTT DIAMETER OF 12 INCHES AND A MINIMUM TIP DIAMETER OF 8 INCHES.
5. A 8 INCH DIAMETER PILOT HOLE MAY BE DRILLED TO A DEPTH OF 5 FEET ABOVE THE FINAL TIP ELEVATION TO FACILITATE PILE DRIVING. JETTING ALONG SIDE OF PILES IS NOT PERMITTED.
6. PILES SHALL BE DRIVEN WITH A DYNAMIC HAMMER HAVING AN EFFECTIVE DRIVING ENERGY OF 18,000 TO 48,000 FT/LBS/BLOW.
7. ADEQUATE CUSHIONING MATERIAL SHALL BE PROVIDED BETWEEN THE PILE DRIVER CAP AND THE PILE HEAD. A SOFTWOOD CUSHION WITH A THICKNESS OF 6 TO 12 INCHES IS PREFERRED.
8. THE PILE DRIVING HELMET OR CAP SHALL BE SUFFICIENTLY LOOSE AROUND THE PILE BUTT SO AS NOT TO DEVELOP TORSIONAL STRESSES IN THE PILE DURING INSTALLATION, HOWEVER THE HELMET SHOULD BE CAPABLE OF CONTROLLING PILE ALIGNMENT.
9. THE ENTIRE HAMMER-CUSHION-PILE SYSTEM SHOULD BE COMPATIBLE AND CAPABLE OF DRIVING PILES TO THE DESIGN PENETRATIONS WITHOUT DAMAGING PILES. BLOW COUNTS CONSISTENTLY IN EXCESS OF 50 BLOWS/FOOT ARE NOT IN LINE WITH GOOD PRACTICE.
10. PILES SHALL BE PROPERLY ALIGNED PRIOR TO DRIVING AND HELD WITH FIXED LEADS. REALIGNMENT ONCE DRIVING HAS COMMENCED IS NOT PERMITTED.

### CONCRETE (SIDEWALKS)

- ALL CONCRETE WORK SHALL CONFORM TO THE AMERICAN CONCRETE INSTITUTE SPECIFICATION, A.C.I. #301 AND BUILDING CODE REQUIREMENTS, A.C.I. #318, LATEST EDITION.
2. ALL DETAILING, FABRICATION AND ERECTION OF REINFORCING BARS, UNLESS OTHERWISE NOTED, MUST FOLLOW THE A.C.I. "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE", A.C.I. #315, LATEST EDITION.
3. CONCRETE SHALL HAVE A MINIMUM COMPRESSION STRENGTH OF 3,000 PSI AT 28 DAYS.
4. A MAXIMUM OF 25% FLYASH MAY BE USED AS A CEMENT SUBSTITUTE AND SHALL CONFORM TO ASTM C618, CLASS C. THE WATER/CEMENT RATIO SHALL NOT EXCEED 0.6 AND SLUMPS SHALL BE 5 INCHES ( $\pm 1$  INCH). AGGREGATE SHALL BE WELL-GRADED, 1" MAXIMUM FOR THE SLAB ON GRADE, 1" MAXIMUM FOR CAST-IN-PLACE BEAMS AND ABOVE GRADE SLABS. COARSE AGGREGATE SHALL MEET ASTM C33, GRADATION #57. A QUALIFIED TESTING LABORATORY SHALL BE RETAINED TO FURNISH MIX DESIGNS FOR ALL CLASSES OF CONCRETE. A SAMPLE OF FOUR CYLINDERS SHALL BE TAKEN NOT LESS THAN ONCE A DAY, NOR LESS THAN ONCE FOR EACH 100 YD3 OF CONCRETE. ONE CYLINDER SHALL BE TESTED AT 7 DAYS AND TWO AT 28 DAYS. THE FOURTH CYLINDER MAY BE DISPOSED OF AFTER 45 DAYS IF NOT USED.
5. ADMIXTURES CONTAINING WATER SOLUBLE CHLORIDE IONS GREATER THAN 0.06% BY WEIGHT OF CEMENT SHALL NOT BE USED.
6. REINFORCING BARS SHALL BE NEW BILLET STEEL CONFORMING TO ASTM A-615, GRADE 60. #3 BARS MAY BE GRADE 40.
7. WELDED WIRE FABRIC MATS SHALL BE ASTM A185.
8. STANDARD PROTECTIVE COVER OF REINFORCING BARS UNLESS OTHERWISE NOTED SHALL BE:
- |                                       |           |
|---------------------------------------|-----------|
| WHERE CAST AGAINST DIRT OR FILL ..... | 3 IN.     |
| EXPOSED TO EARTH OR WEATHER .....     | 2 IN.     |
| SLABS AND WALLS .....                 | 1 IN.     |
| OTHER .....                           | 1-1/2 IN. |
9. ALL ACCESSORIES SHALL BE IN ACCORDANCE WITH THE A.C.I. "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE", A.C.I. #315, LATEST EDITION.
10. SLAB MAT TO BE SUPPORTED BY MASONRY BRICK BATTS (MIN OF 1/2 BRICK) SPACED AT 4 FEET ON CENTER EACH WAY (MAX). BEAM CAGES SUPPORTED BY BATTS AT 4 FEET ON CENTER.
11. MAINTAIN A MINIMUM OF ONE AND ONE-HALF (1-1/2) TIMES THE MAXIMUM COARSE AGGREGATE SIZE BETWEEN ALL REINFORCING BARS (EXCEPT AT LAPS).
12. BARS SCHEDULED OR DETAILED "CONT" SHALL BE LAPPED 40 BAR DIAMETERS (24 INCHES MINIMUM) UNLESS OTHERWISE NOTED.
13. WHERE CONCRETE IS TO HAVE UNEXPOSED SURFACES, THE FORMS MAY BE CONSTRUCTED OF #2 LUMBER OR BETTER. WHERE SURFACES ARE EXPOSED, A SMOOTH SURFACE IS REQUIRED, FREE FROM FINS, HONEYCOMB, FORM MARKS OR OTHER DEFECTS.
14. EXPOSED SURFACES OF CONCRETE AT THE PERIMETER OF THE FOUNDATION SHALL BE FORMED WITH 2X10 #2 LUMBER OR BETTER. A SMOOTH SURFACE IS REQUIRED, FREE FROM FINS, HONEYCOMB, FORM MARKS OR OTHER DEFECTS.
15. CONSTRUCT FORMS SO THAT JOINTS ARE LEAKPROOF. MAINTAIN FORMS SUFFICIENTLY RIGID TO PREVENT DEFORMATION UNDER LOAD.
16. CONCRETE MAY BE PLACED WITH CHUTES UP TO 25' MAXIMUM. SLUMP SHALL NOT EXCEED 6" AT TRUCK DISCHARGE POINT.
17. CONCRETE PLACED BY PUMPING SHALL MEET THE FOLLOWING REQUIREMENTS:
- A.) COARSE AGGREGATE SHALL BE GRADED FROM A MAXIMUM OF 1" DOWN
  - B.) MAXIMUM ALLOWABLE INCREASE IN CEMENT FACTOR SHALL BE 1/2 SACK PER CUBIC YARD OVER NORMAL MIX DESIGN.
  - C.) MAXIMUM WATER CEMENT RATIO SHALL BE 7-1/2 GALLONS PER SACK OF CEMENT. IF MORE WORKABILITY IS REQUIRED, AN ADMIXTURE MAY BE USED.
  - D.) MAXIMUM WEIGHT RATIO OF FINE AGGREGATES TO COARSE AGGREGATES SHALL NOT EXCEED 2/3.
  - E.) REFER TO A.C.I. #301, LATEST EDITION, SECTION 800, FOR OTHER PUMPING REQUIREMENTS.
  - F.) IN NO CASE SHALL CONCRETE BE PUMPED THROUGH AN ALUMINUM TUBE.
  - G.) SLUMP SHALL NOT EXCEED 6" AT TRUCK DISCHARGE POINT.
18. FLOOR FINISH (TOLERANCES)
- A.) STEEL TROWEL FINISH 1/8" IN 10'
  - B.) FLOAT FINISH 1/4" IN 10'
  - C.) SCRATCH FINISH 1/2" IN 10'
  - D.) IN ALL INSTANCES MINIMUM SLAB THICKNESS SHALL BE PROVIDED. COORDINATE SLAB FINISH REQUIREMENTS WITH ARCHITECTURAL PLANS/SPECIFICATIONS. REFERENCE ARCHITECTURAL PLANS AND/OR SPECIFICATIONS FOR CONCRETE FINISHES.
19. CONCRETE TO BE CURED IN ACCORDANCE WITH ACI RECOMMENDATIONS. PROPOSED METHOD OF CURING TO BE COORDINATED WITH ENGINEER PRIOR TO CONCRETE PLACEMENT.
20. ENGINEER TO BE NOTIFIED 48 HOURS PRIOR TO PLACEMENT OF FOUNDATION AND OF STRUCTURAL CONCRETE TO SCHEDULE REQUIRED OBSERVATIONS.

## FASTENERS

1. ADHESIVE ANCHORS SHALL BE "HILTI HIT-RE 500-SD ADHESIVE ANCHORS" PROVIDED BY HILTI OR APPROVED EQUAL.
2. FASTENERS DIAMETER AND LENGTH ARE NOTED ON THE PLANS.
3. ALL FASTENERS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
4. ALL FASTENERS SHALL BE STAINLESS STEEL.

### ROUGH CARPENTRY SPECIFICATIONS AND NOTES

1. ROUGH CARPENTRY SHALL COMPLY WITH THE PROVISIONS OF THE 2009 EDITION OF THE INTERNATIONAL BUILDING CODE.
2. ALL LUMBER USED FOR LOAD SUPPORTING PURPOSES SHALL BE IDENTIFIED BY THE GRADE MARK OF AN APPROVED LUMBER GRADING OR INSPECTION BUREAU OR AGENCY.
3. ALL LUMBER SHALL BE PRESERVATIVELY TREATED AND SHALL BEAR AN APPROVED AMPB QUALITY MARK. THE QUALITY MARK SHALL BE ON A STAMP OR LABEL AFFIXED TO THE PRESERVATIVE-TREATED WOOD, AND SHALL INCLUDE THE FOLLOWING INFORMATION:
  - A. IDENTIFICATION OF TREATING MANUFACTURER.
  - B. TYPE OF PRESERVATIVE USED.
  - C. MINIMUM PRESERVATIVE RETENTION (pcf).
  - D. END USE FOR WHICH THE PRODUCT IS TREATED.
  - E. AMPA STANDARD TO WHICH THE PRODUCT WAS TREATED.
  - F. IDENTITY OF THE ACCREDITED INSPECTION AGENCY.

5. MATERIALS
- A. FRAMING LUMBER
- | <u>USE-ITEM</u> | <u>LUMBER SPECIES</u>         | <u>MINIMUM GRADE</u> |
|-----------------|-------------------------------|----------------------|
| JOISTS, BEAMS   | SOUTHERN PINE                 | #2                   |
| PLANKS          | 2x6 WOOD<br>COMPOSITE DECKING | SEE MFR REQUIREMENTS |
- B. FASTENERS
1. NAILS AND BOLTS SHALL BE STAINLESS STEEL.

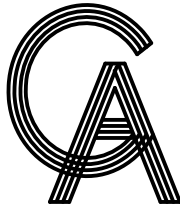
6. VERTICAL FRAMING MEMBERS SHALL BE CONTINUOUS LENGTH WITHOUT SPLICING. SPLICES IN HORIZONTAL MEMBERS SHALL OCCUR ONLY OVER BEARING POINTS. LAP MEMBERS WHICH BEAR ON PLATES TO PROVIDE FULL BEARING FOR EACH MEMBER.
7. STRUCTURAL MEMBERS WHOSE STRENGTH IS IMPAIRED BY IMPROPER CUTTING, DRILLING, OR EXCESSIVE DEFECTS SHALL BE REPLACED OR REINFORCED IN A MANNER ACCEPTABLE TO THE ENGINEER.

8. PROVIDE SOLID BLOCKING BETWEEN FLOOR JOISTS AT BEARING LOCATIONS AND AT MID OPENING OF SPANS GREATER THAN 8'-0" OR AS NOTED. BLOCKING TO MATCH SIZE OF FRAMING MEMBER.
9. ALL METAL HANGERS, ETC., SHALL BE STAINLESS STEEL.

- ### WOOD COMPOSITE DECKING MATERIAL FOR PLANKS

## WOOD COMPOSITE DECKING MATERIAL FOR PLANKS

1. NOMINAL SIZE OF WOOD COMPOSITE DECKING MATERIAL FOR PLANKS SHALL BE 2"x6" BOARD.
2. WOOD COMPOSITE DECKING BOARD MANUFACTURED BY TREX COMPANY, INC., OR EQUIVALENT COMPOSITE DECKING BOARDS MAY BE USED SUBJECT TO REVIEW AND EVALUATION OF THE ENGINEER.
3. WOOD COMPOSITE DECKING SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S SPECIFICATIONS, PROCEDURES AND REQUIREMENTS.
4. ALL FASTENERS SHALL BE MADE OF STAINLESS STEEL.
5. DECKING SHALL BE DESIGNED AND INSTALLED TO LIMIT BENDING DEFLECTION UNDER TOTAL LOAD TO LESS THAN OR EQUAL TO  $L/360$ . DESIGN LIVE LOAD IS 100 PSF.
6. THE CONTRATOR AND MANUFACTURER SHALL SUBMIT TO THE ENGINEER THE FOLLOWING FOR REVIEW AND EVALUATION:
  - A. PRODUCT DATA INCLUDING SPECIFICATIONS, PRODUCT HANDLING, AND INSTALLATION INSTRUCTION.



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FIRM REGISTRATION #F-4145

SEAL



PROJECT

## BEACH WALKOVERS AT AQUARIUS AND GOOD HOPE CIRCLES

**SOUTH PADRE ISLAND  
TEXAS**

CLIENT

**CITY OF  
SOUTH PADRE ISLAND**



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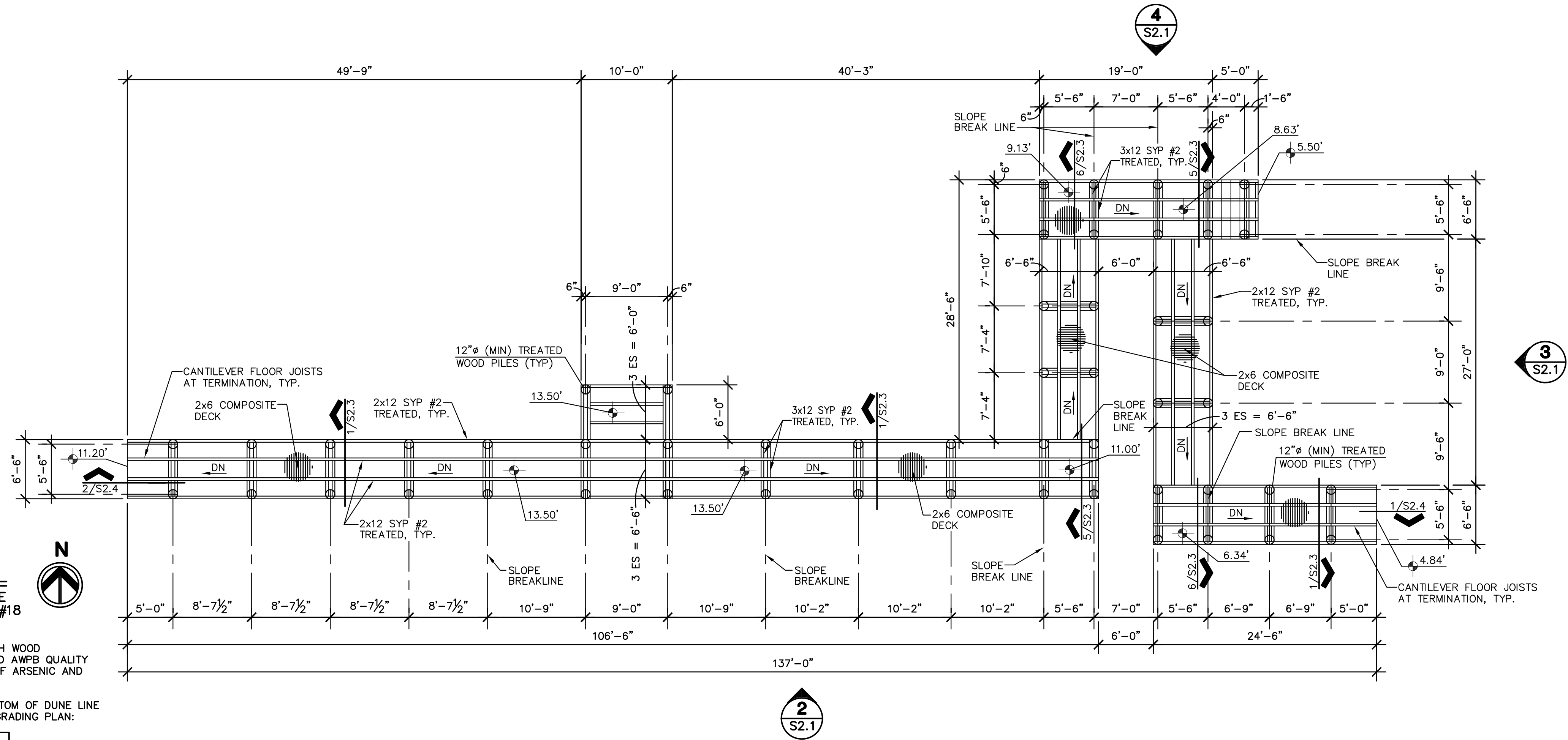
SHEET TITLE

# GENERAL STRUCTURAL NOTES

SHEET NO.

# S1.1





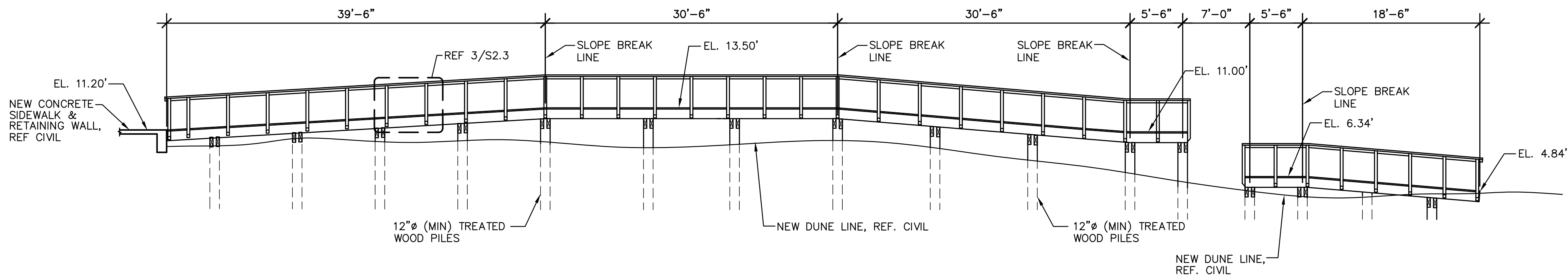
**1 WALKOVER PLAN**  
1/8" = 1'-0" AQUARIUS CIRCLE  
BEACH ACCESS #18

NOTES:

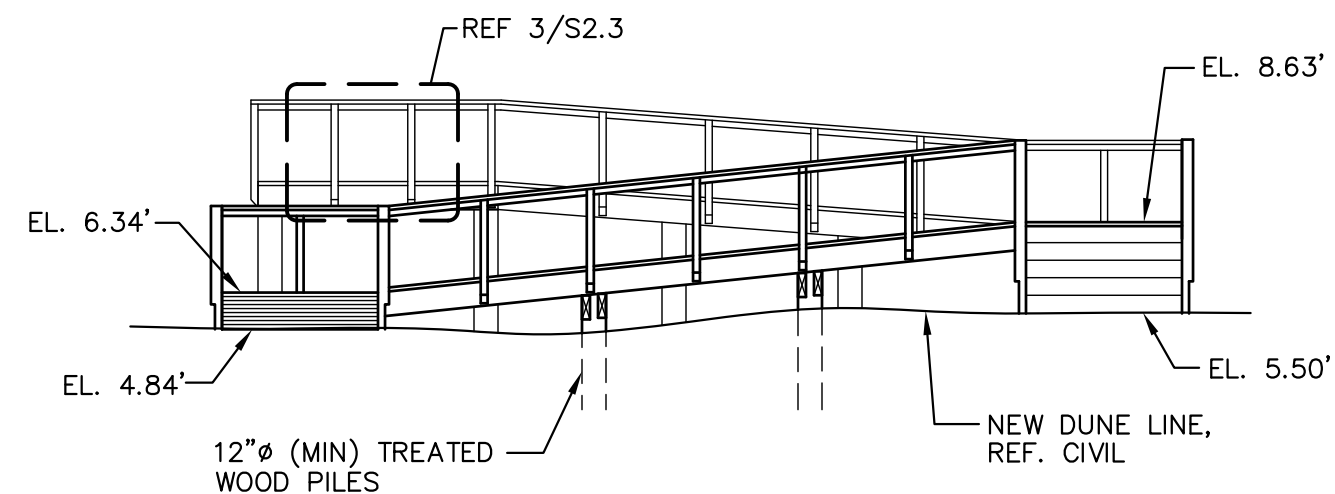
- ALL LUMBER SHALL BE PRESSURE TREATED WITH WOOD PRESERVATIVES AND SHALL BEAR AN APPROVED AWPB QUALITY MARK. WOOD PRESERVATIVES SHALL BE FREE OF ARSENIC AND CHROMIUM.
- ALL PILES SHALL BE EMBEDDED BELOW THE BOTTOM OF DUNE LINE AS STATED BELOW, REF. CIVIL DRAWINGS FOR GRADING PLAN:

DIAMETER	TOTAL LENGTH	MINIMUM EMBEDMENT
12"	20'-0"	12'-0"

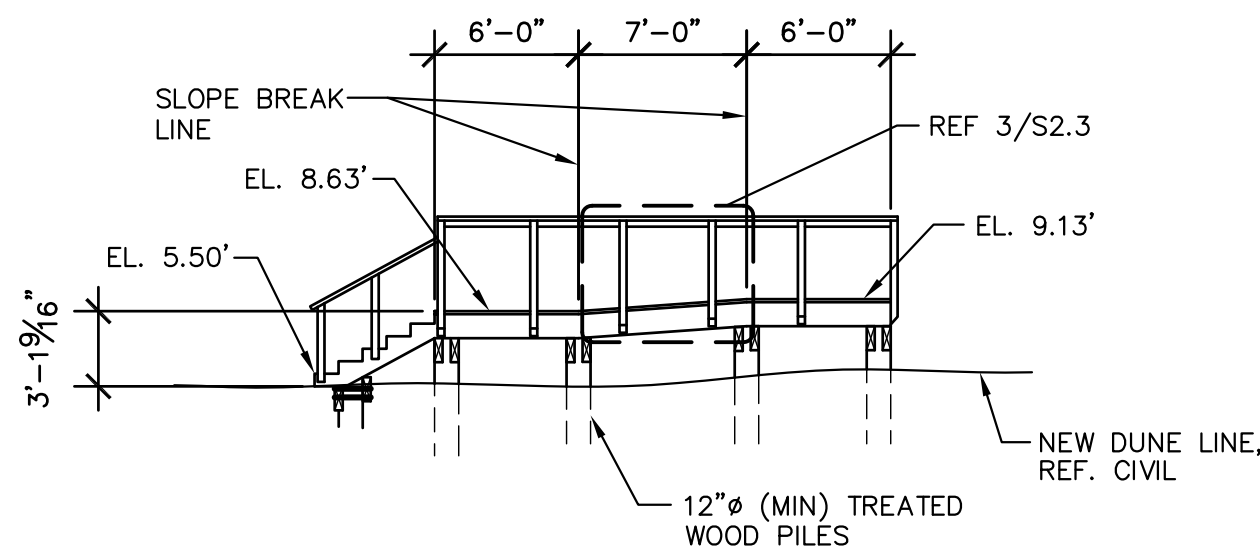
- FLOOR DECKING SHALL BE 2x6 COMPOSITE PLANKS MANUFACTURED BY TREX COMPANY, INC., OR APPROVED EQUIVALENT.



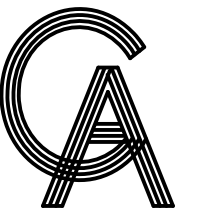
**2 WALKOVER ELEVATION**  
1/8" = 1'-0" AQUARIUS CIRCLE  
BEACH ACCESS #18



**3 WALKOVER ELEVATION**  
1/8" = 1'-0" AQUARIUS CIRCLE  
BEACH ACCESS #18



**4 WALKOVER ELEVATION**  
1/8" = 1'-0" AQUARIUS CIRCLE  
BEACH ACCESS #18



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AT AQUARIUS AND  
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**WALKOVER PLANS  
AND ELEVATIONS  
AQUARIUS CIRCLE**

SHEET NO.

**S2.1**



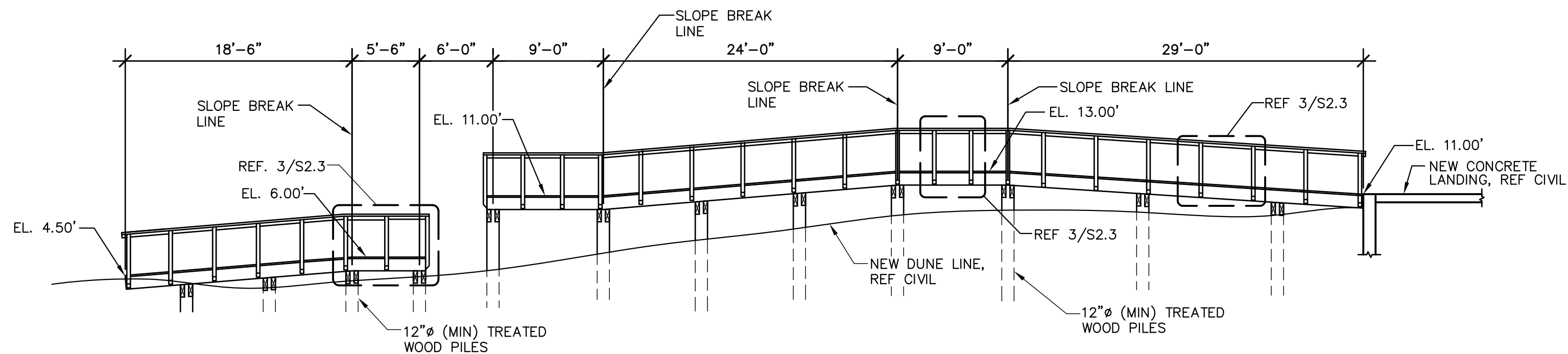
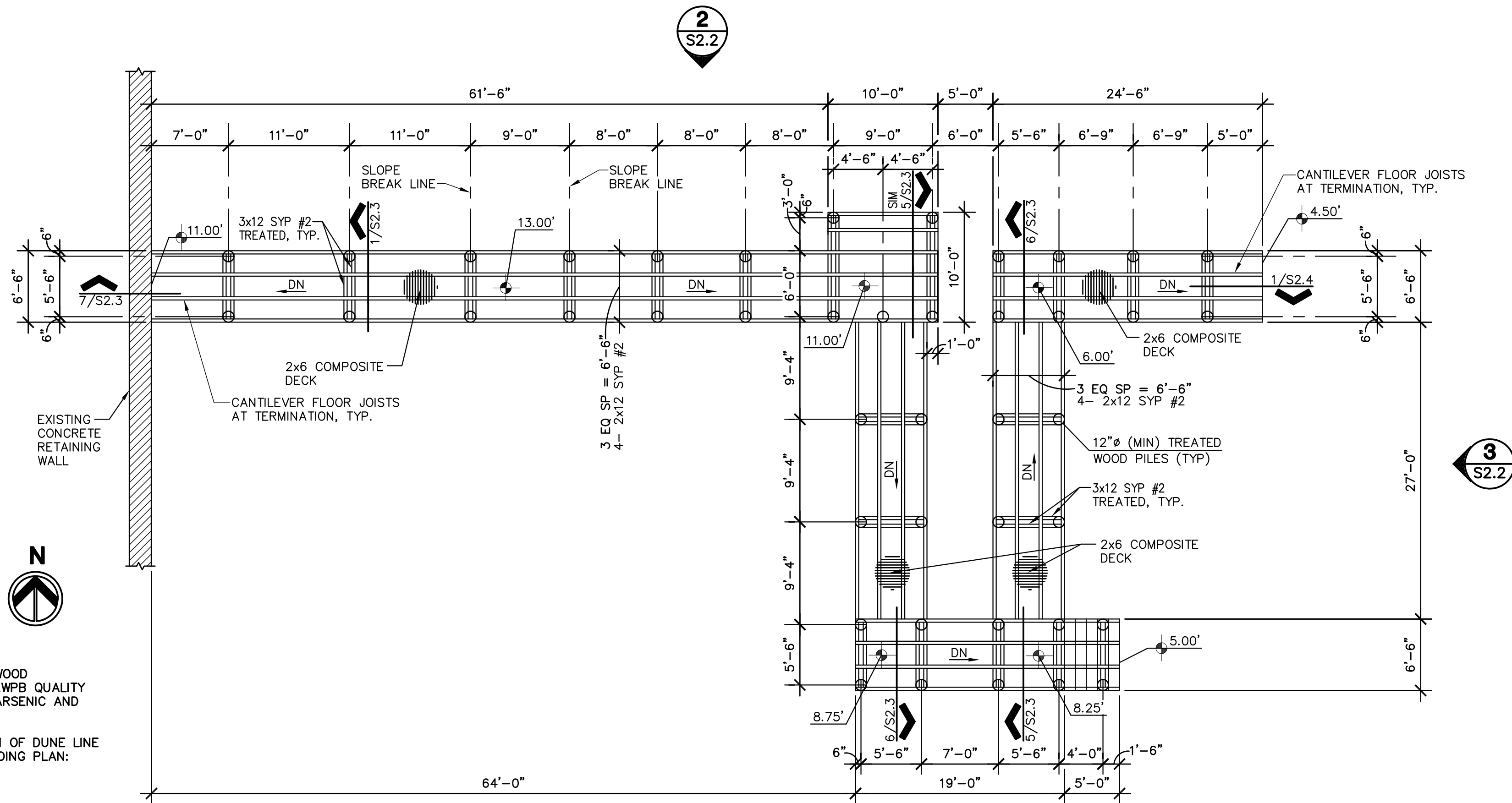
**1 WALKOVER PLAN**  
1/8" = 1'-0" GOOD HOPE CIRCLE  
BEACH ACCESS #21

NOTES:

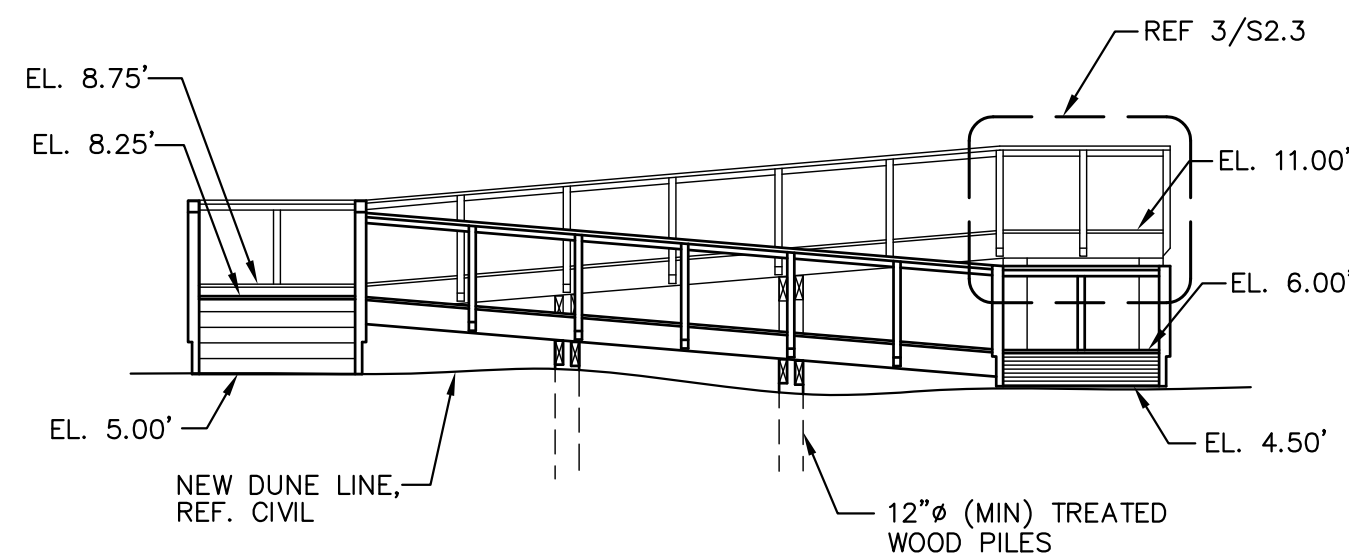
- ALL LUMBER SHALL BE PRESSURE TREATED WITH WOOD PRESERVATIVES AND SHALL BEAR AN APPROVED AWPB QUALITY MARK. WOOD PRESERVATIVES SHALL BE FREE OF ARSENIC AND CHROMIUM.
- ALL PILES SHALL BE EMBEDDED BELOW THE BOTTOM OF DUNE LINE AS STATED BELOW, REF. CIVIL DRAWINGS FOR GRADING PLAN:

DIAMETER	TOTAL LENGTH	MINIMUM EMBEDMENT
12"	20'-0"	12'-0"

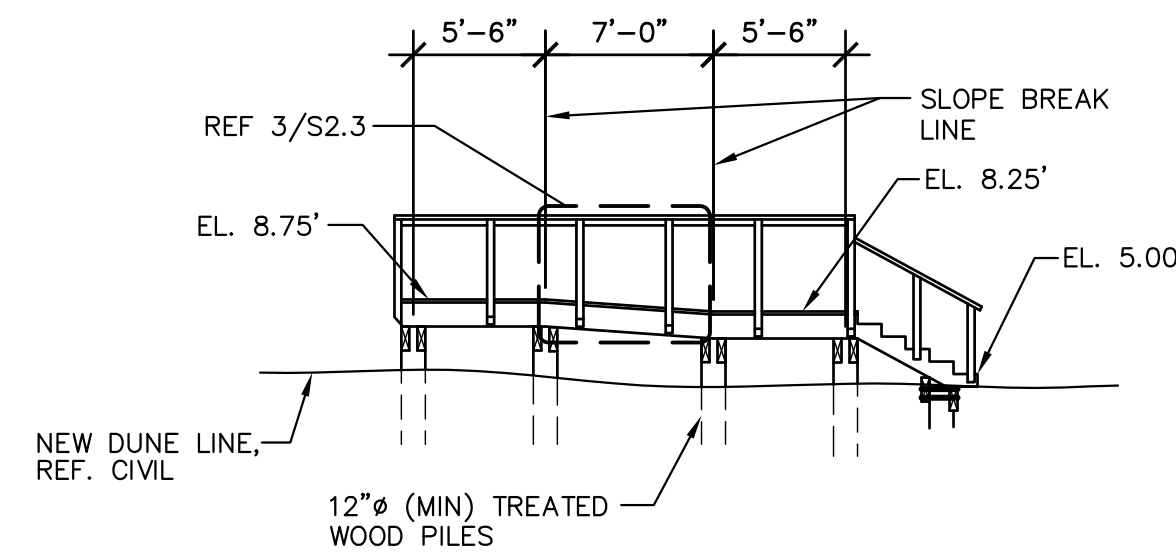
- FLOOR DECKING SHALL BE 2x6 COMPOSITE PLANKS MANUFACTURED BY TREX COMPANY, INC., OR APPROVED EQUIVALENT.



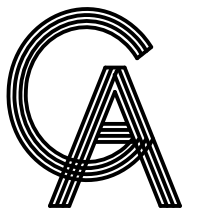
**2 WALKOVER ELEVATION**  
1/8" = 1'-0" GOOD HOPE CIRCLE  
BEACH ACCESS #21



**3 WALKOVER ELEVATION**  
1/8" = 1'-0" GOOD HOPE CIRCLE  
BEACH ACCESS #21



**4 WALKOVER ELEVATION**  
1/8" = 1'-0" GOOD HOPE CIRCLE  
BEACH ACCESS #21



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**WALKOVER PLANS  
AND ELEVATIONS  
GOODHOPE CIRCLE**

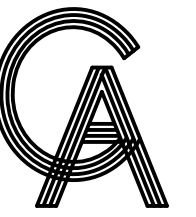
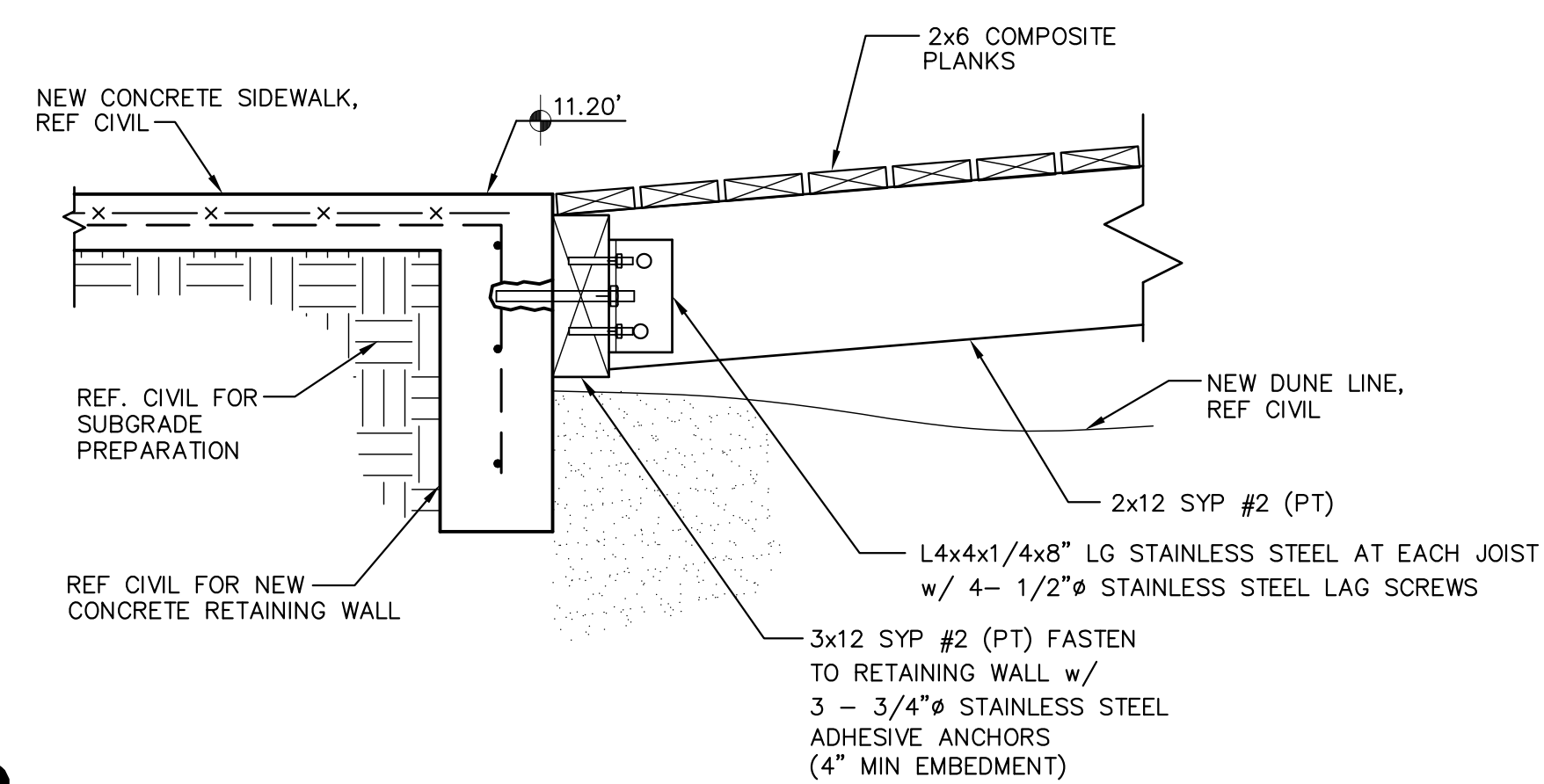
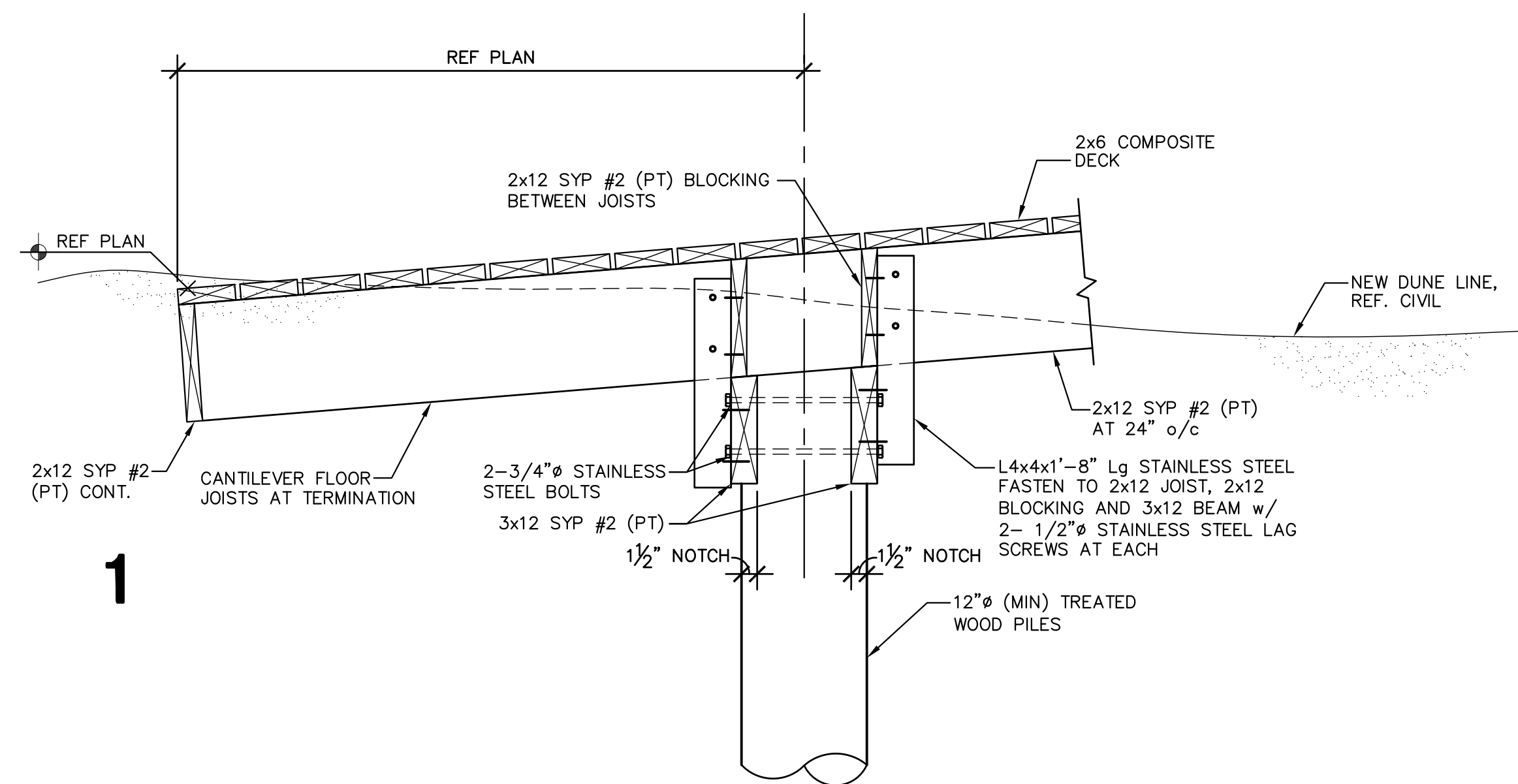
SHEET NO.

**S2.2**









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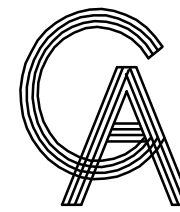
SHEET TITLE

## FRAMING DETAILS

SHEET NO.

## S2.4





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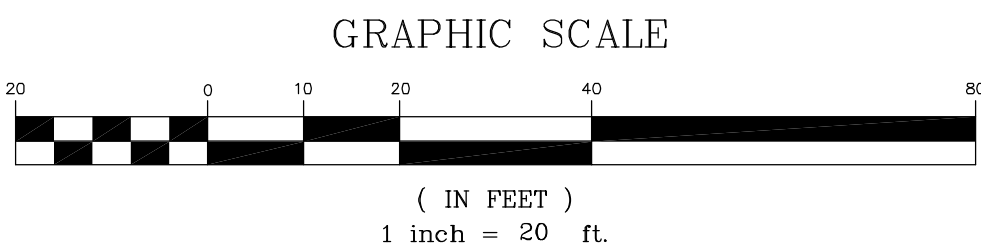
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SHEET TITLE

TOPOGRAPHIC  
SURVEY

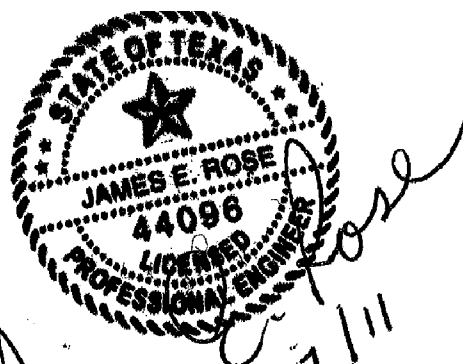
SHEET NO.

C1



CONTOUR OF ELEV. -0.7 FT. (N.G.V.D. 1929)  
SURVEYED FOR MEAN LOWER LOW TIDE  
ON FEBRUARY 14, 2011

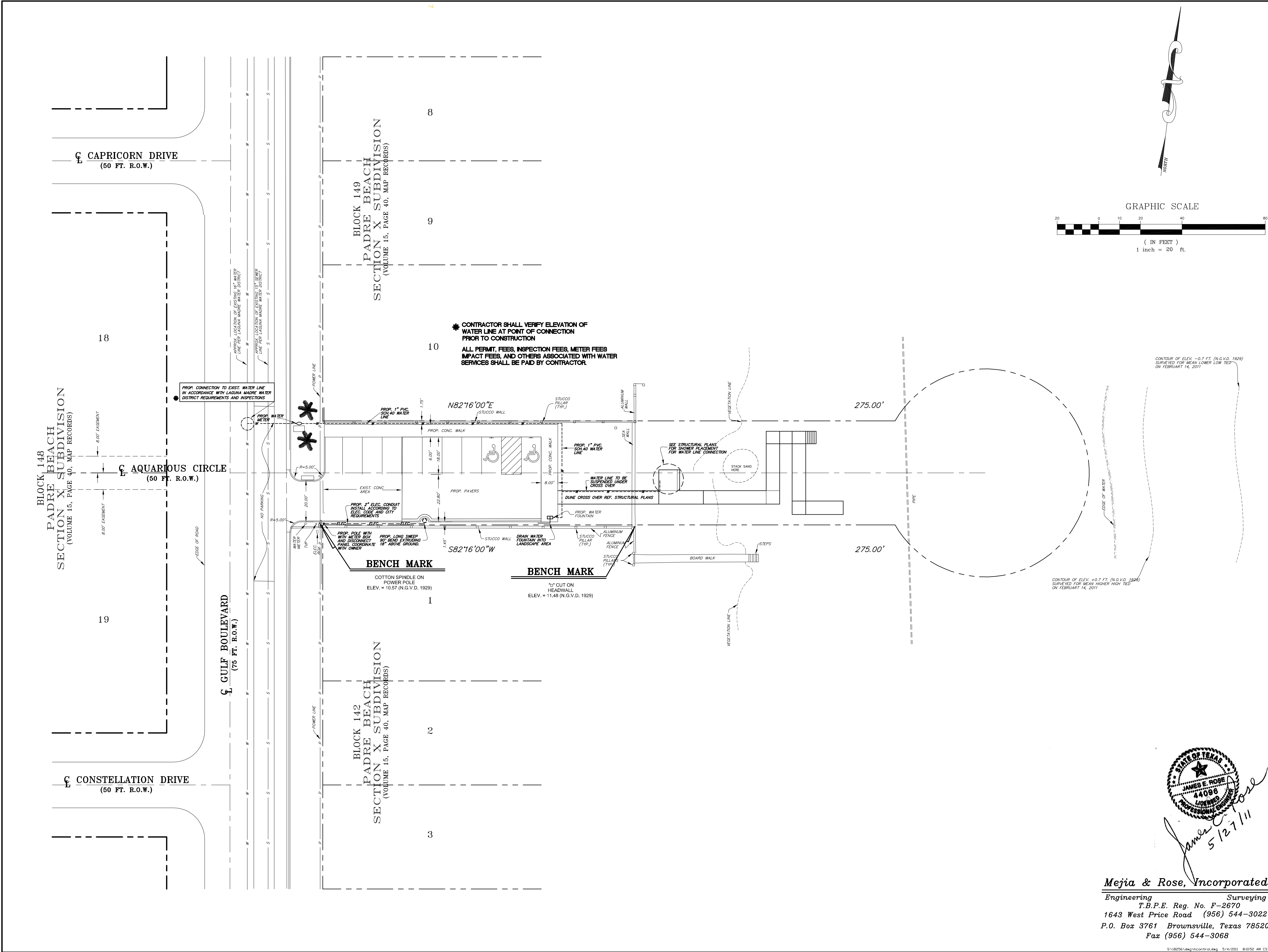
CONTOUR OF ELEV. -10.7 FT. (N.G.V.D. 1929)  
SURVEYED FOR MEAN HIGHER HIGH TIDE  
ON FEBRUARY 14, 2011



**Mejia & Rose, Incorporated**  
Engineering Surveying  
T.B.P.E. Reg. No. F-2670  
1643 West Price Road (956) 544-3022  
P.O. Box 3761 Brownsville, Texas 78520  
Fax (956) 544-3068

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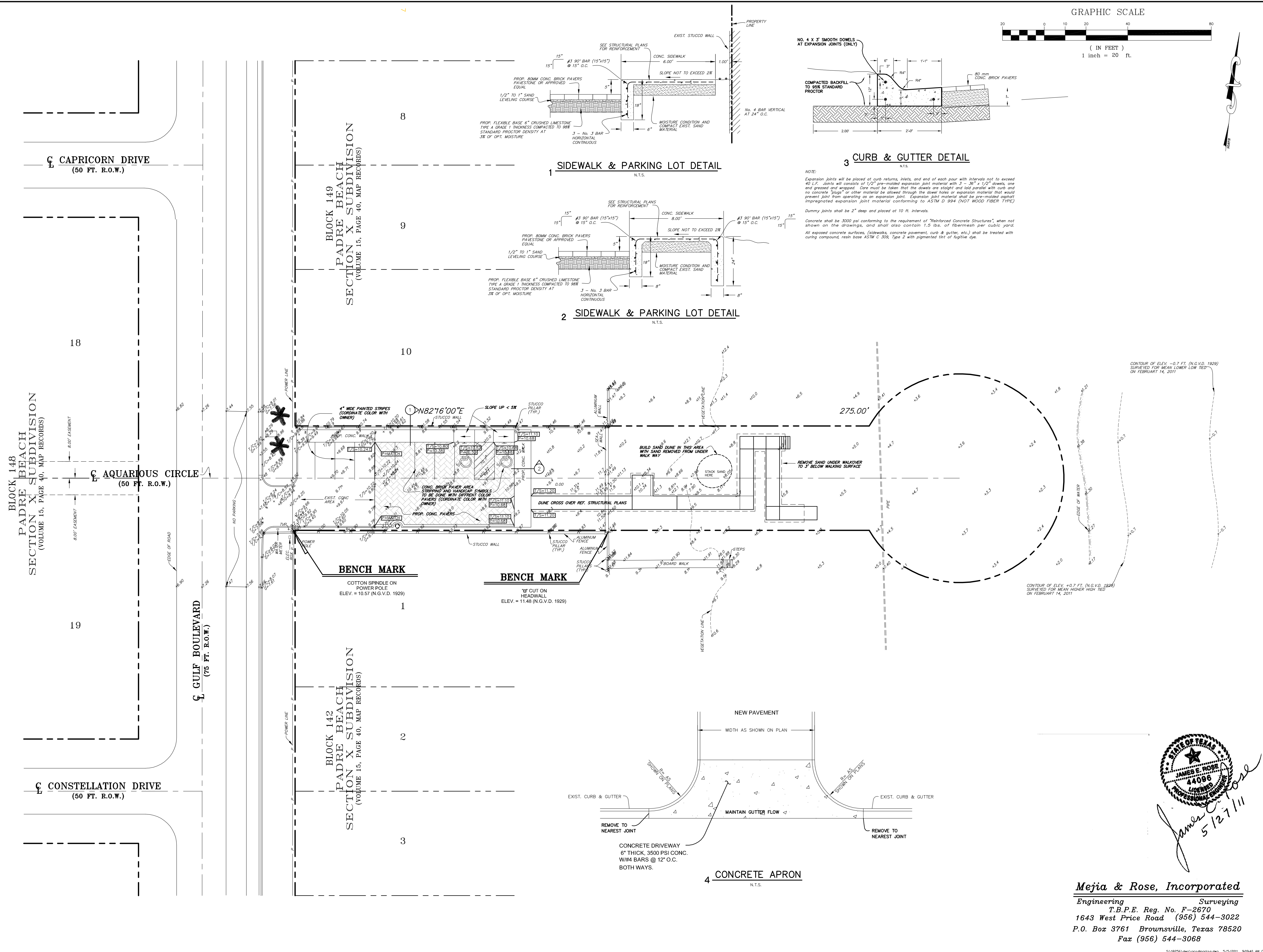
UTILITY AND  
HORIZONTAL  
CONTROL  
PLAN

SHEET NO.

C2

*Mejia & Rose, Incorporated*  
Engineering Surveying  
T.B.P.E. Reg. No. F-2670  
1643 West Price Road (956) 544-3022  
P.O. Box 3761 Brownsville, Texas 78520  
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1220 WEST HARRISON  
HARLINGEN, TEXAS 78550  
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FIRM REGISTRATION #F-4145

SEAL

PROJECT

BEACH WALKOVERS  
AT AQUARIUS AND  
GOOD HOPE CIRCLES

SOUTH PADRE ISLAND,  
TEXAS

CLIENT

CITY OF  
SOUTH PADRE ISLAND

**South Padre Island**

SOUTH PADRE ISLAND,  
TEXAS

P: 956-761-3044  
F: 956-761-3898

MARK	DATE	DESCRIPTION

PROJECT NO. 1065-06  
DATE 05-27-11  
DRAWN BY RV, RC  
CHECKED BY HO  
SCALE AS SHOWN  
SHEET TITLE

GRADING  
PLAN

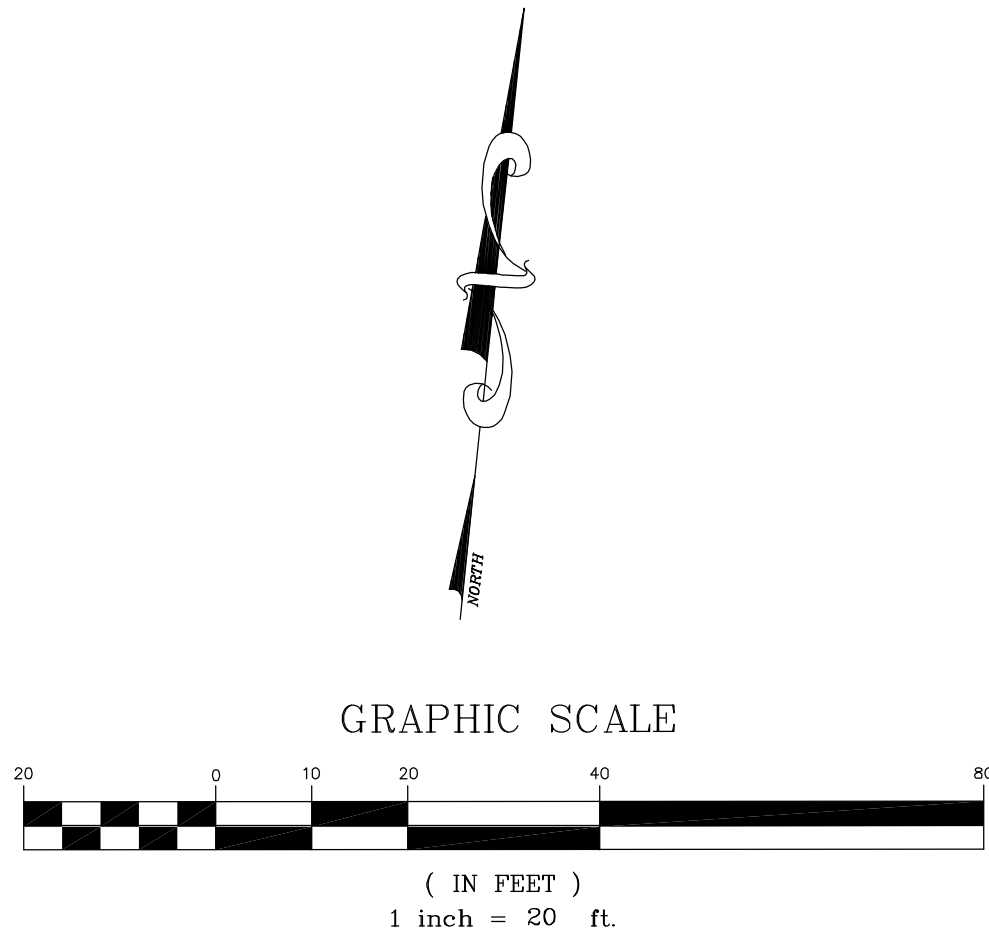
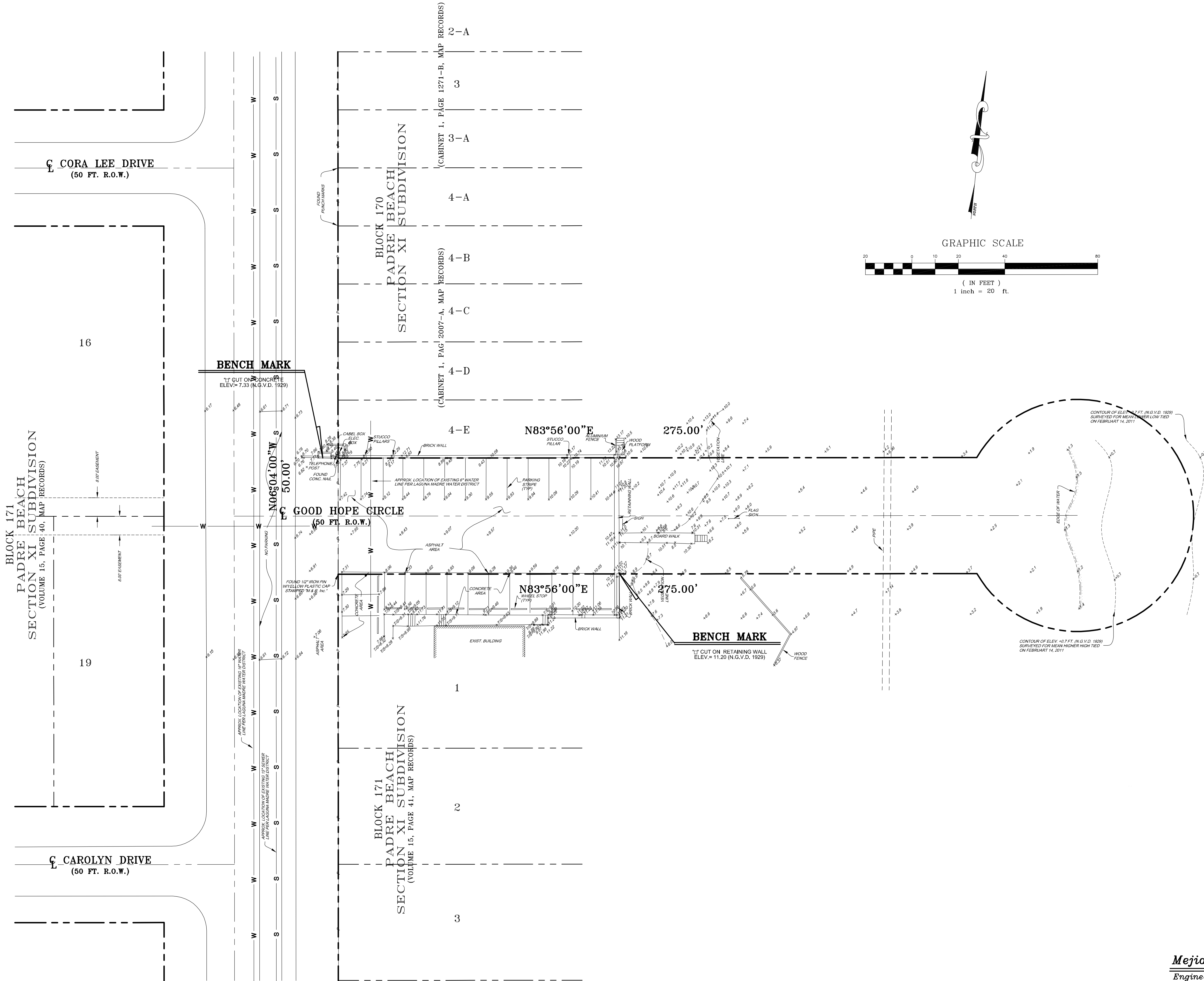
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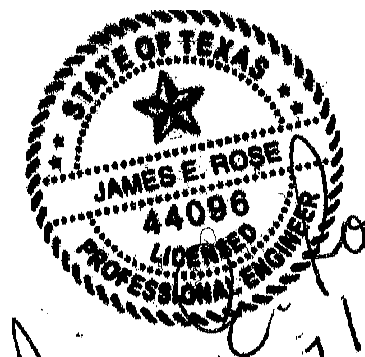
C3

Mejia & Rose, Incorporated  
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*James E. Rose*  
5/27/11





  
*James C. Rose*  
5/27/11

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SEAL

PROJECT

BEACH WALKOVERS  
AT AQUARIUS AND  
GOOD HOPE CIRCLES

SOUTH PADRE ISLAND,  
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CITY OF  
SOUTH PADRE ISLAND

  
SOUTH PADRE ISLAND,  
TEXAS

P: 956-761-3044  
F: 956-761-3898

MARK	DATE	DESCRIPTION

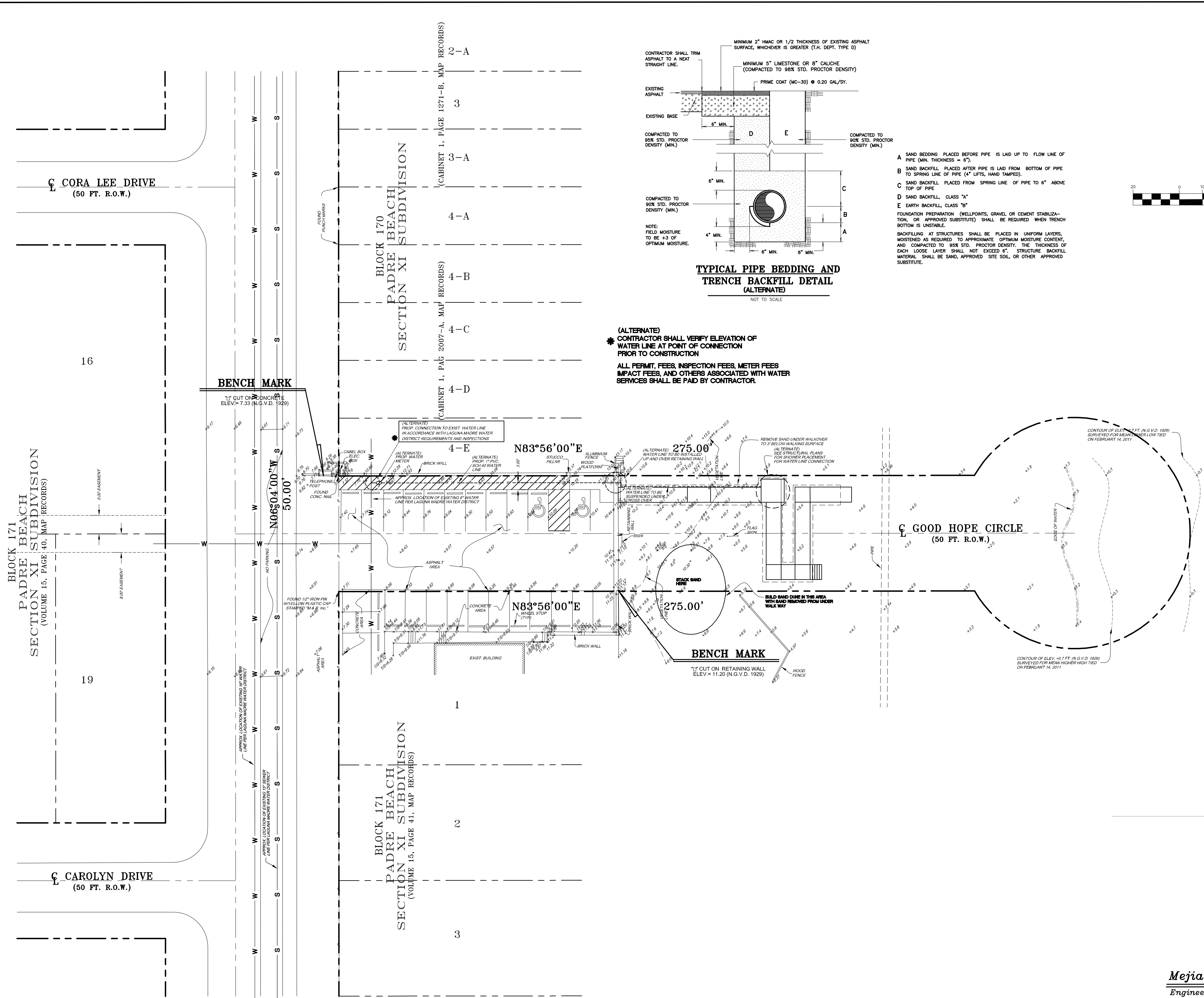
PROJECT NO.	1065-06
DATE	05-27-11
DRAWN BY	RV, RC
CHECKED BY	HO
SCALE	AS SHOWN
SHEET TITLE	

**TOPOGRAPHIC  
SURVEY**

SHEET NO.

**C4**





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SEAL

PROJECT

BEACH WALKOVERS  
AT AQUARIUS AND  
GOOD HOPE CIRCLES

SOUTH PADRE ISLAND,  
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SOUTH PADRE ISLAND



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MARK	DATE	DESCRIPTION

PROJECT NO.	1065-06
DATE	05-27-11
DRAWN BY	RV, RC
CHECKED BY	HO
SCALE	AS SHOWN
SHEET TITLE	GRADING AND UTILITY PLAN
SHEET NO.	C5

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