

PORT OF BROWNSVILLE ANCHOR PARK

BROWNSVILLE, TEXAS

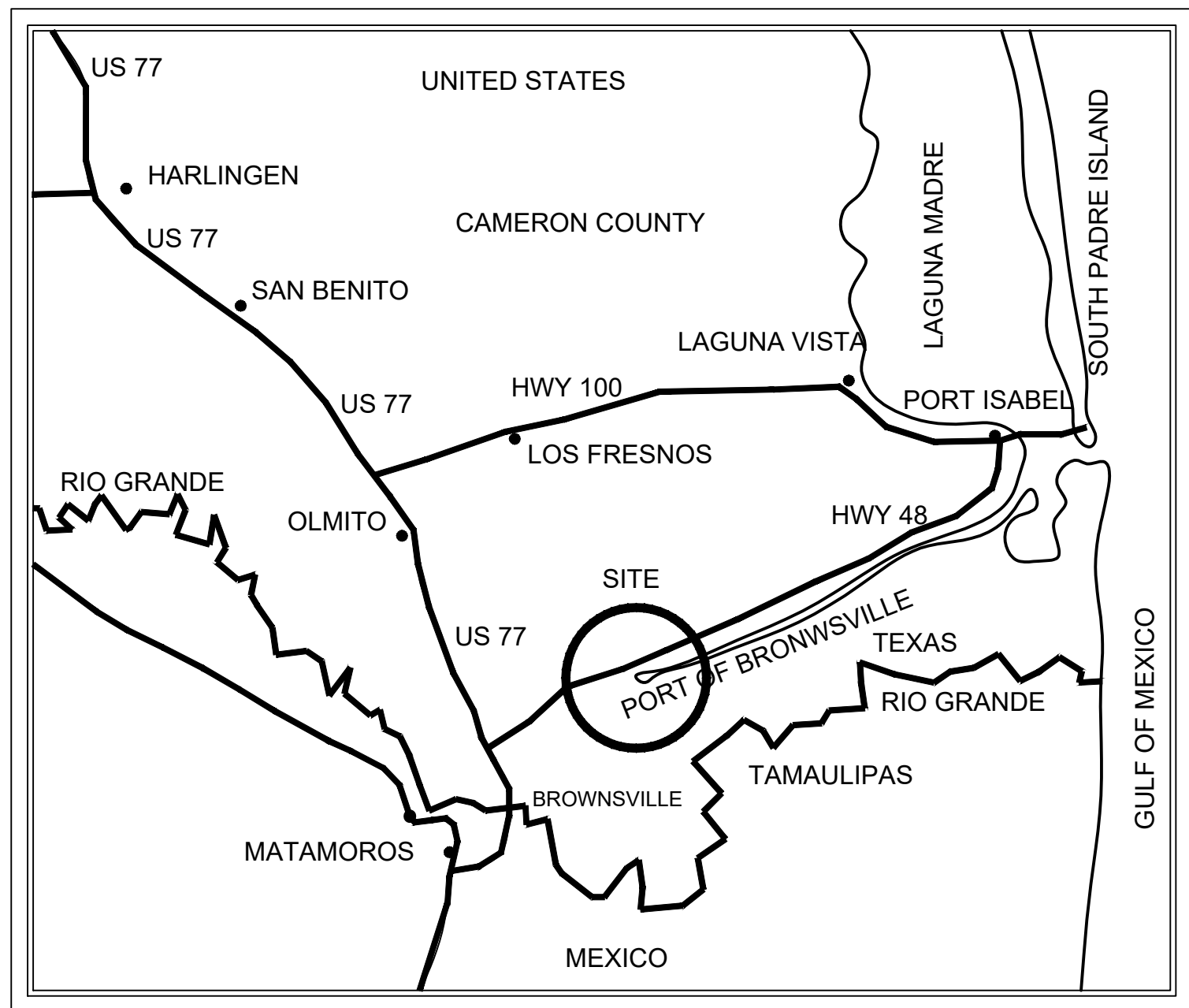


NAME AND ADDRESS OF OWNER:
BROWNSVILLE NAVIGATION DISTRICT
1000 FOUST ROAD
BROWNSVILLE, TEXAS

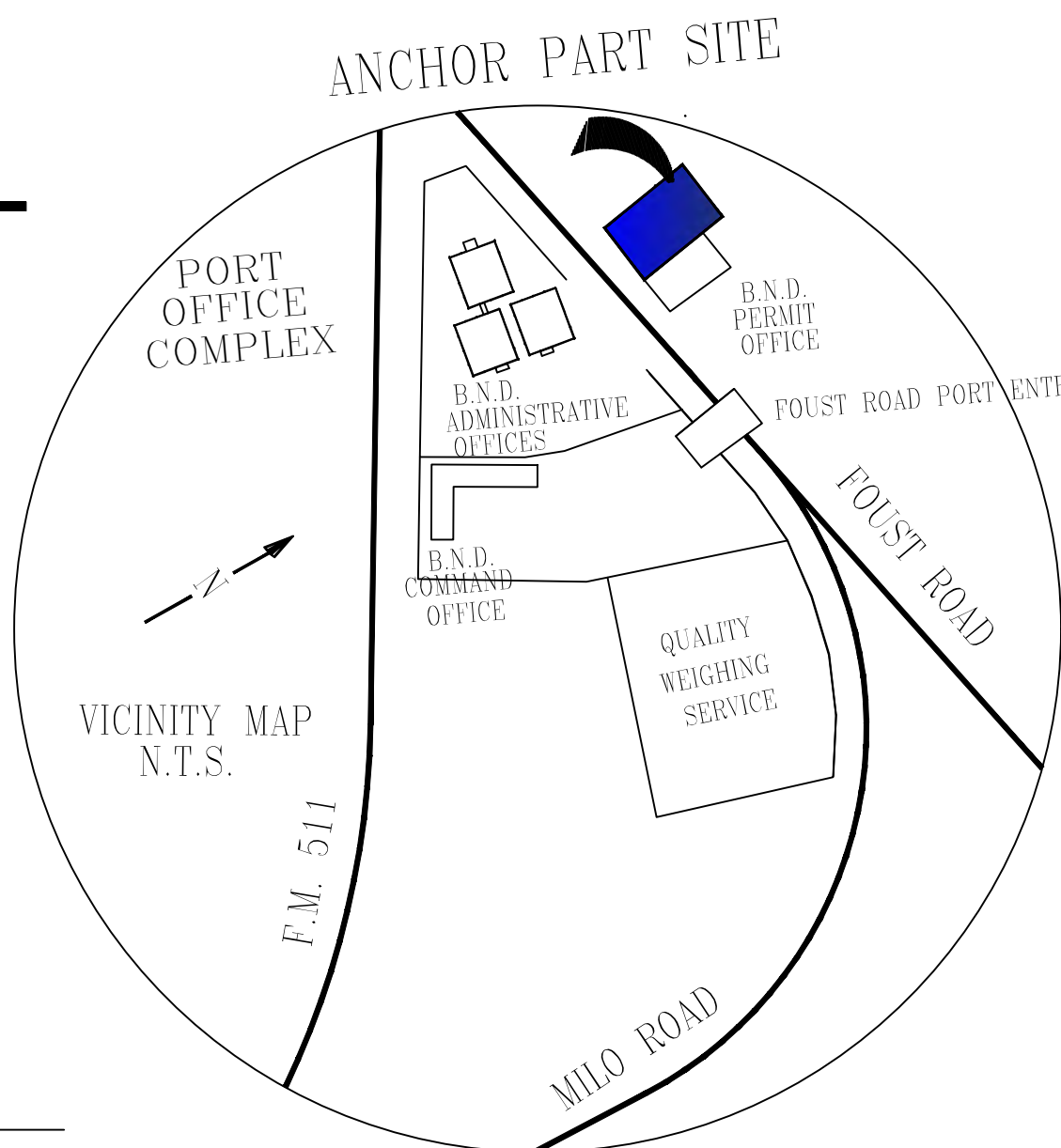
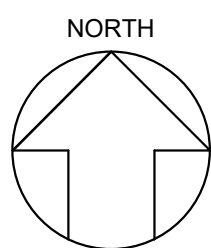
PORT OF BROWNSVILLE COMMISSION

MR. SERGIO TITO LOPEZ - CHAIRMAN
MR. RALPH COWEN - VICE-CHAIRMAN
MR. ESTEBAN GUERRA - SECRETARY OF THE BOARD
MR. JOHN REED - COMMISSIONER
MR. JOHN WOOD - COMMISSIONER

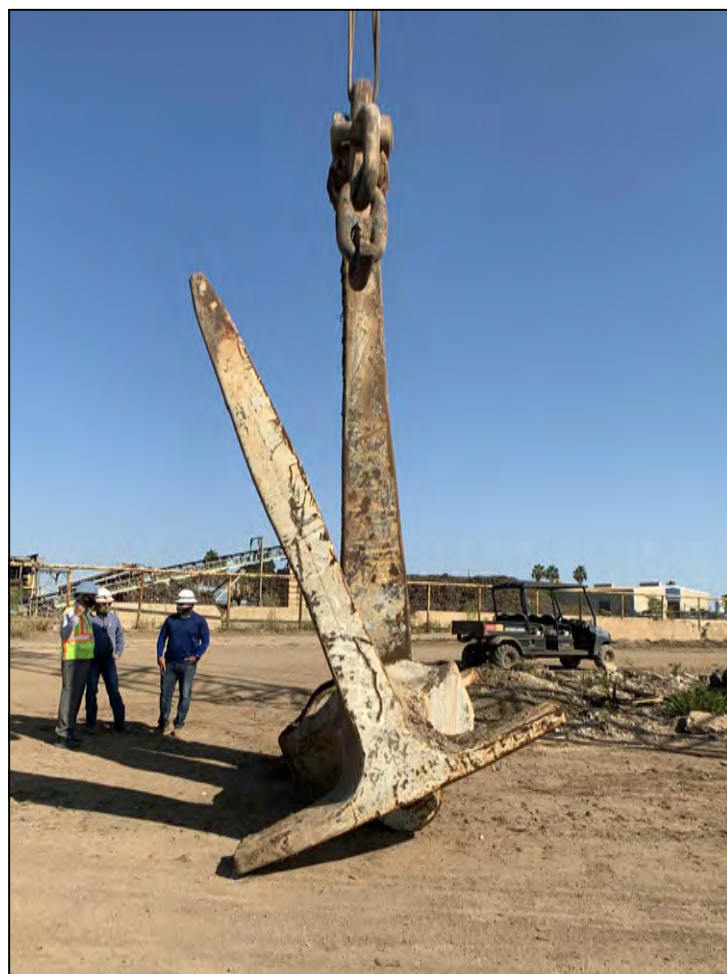
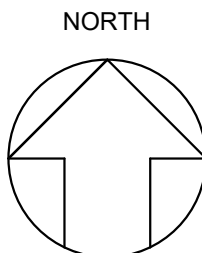
MR. EDUARDO A. CAMPIRANO - PORT DIRECTOR AND CEO
MS. DONNA EYMARD - DEPUTY PORT DIRECTOR



AREA MAP



VICINITY MAP



USS SARATOGA AIRCRAFT CARRIER ANCHOR
DONATED BY STEELCOAST SHIPYARD

ARCHITECTURAL	
COV-1	COVER SHEET
TAS 1	TAS GUIDELINES SHEET 1
TAS	TAS GUIDELINES SHEET 2
GA1	PORT OF BROWNSVILLE PARTIAL SURVEY
A1	ARCHITECTURAL SITE PLAN
A2	PARTIAL ARCHITECTURAL SITE PLAN
A3	PARTIAL ARCHITECTURAL SITE PLAN
A4	ANCHOR DETAILS
A5	DETAILS
A6	DECK ANCHOR DETAILS - PAVES AND LETTER DETAIL

CIVIL	
SITE WORK	
C1	EXISTING SITE PLAN
C2	HORIZONTAL CONTROL PLAN
C3	GRADING PLAN
C4	UTILITIES
C5	STORM WATER POLLUTION PREVENTION PLAN
C6	DETAIL SHEET

STRUCTURAL	
STRUCTURAL	
S101	GENERAL NOTES
S201	PLAN
S401	TYPICAL CONCRETE DETAILS

ELECTRICAL	
ELECTRICAL	
EG01	ELECTRICAL LEGEND / SCHEDULES / RISER DIAGRAM
ESP01	ELECTRICAL SITE PLAN
EL01	ELECTRICAL PLAN



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(956)350-9195

NAME AND ADDRESS OF THE CIVIL ENGINEER:
MR. ARIEL CHAVEZ, P.E.
PORT OF BROWNSVILLE ENGINEERING
1000 CAPT DONALD L. FOUST RD.,
BROWNSVILLE, TX 78526
(956)831-4592

NAME AND ADDRESS OF THE STRUCTURAL
ENGINEER:
SOLORIO, INC.
108 W. CLEO DAWSON
MISSION, TEXAS
(956) 631-1500

NAME AND ADDRESS OF THE MECHANICAL,
ELECTRICAL, PLUMBING ENGINEER:
TRINITY MEP ENGINEERING
3533 MORELAND DRIVE, SUITE A
WESLACO, TEXAS
(956)973-0500

SHEET
NO. C1

OF
SET NUMBER

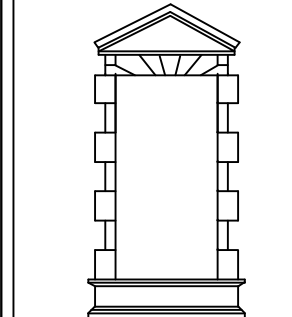
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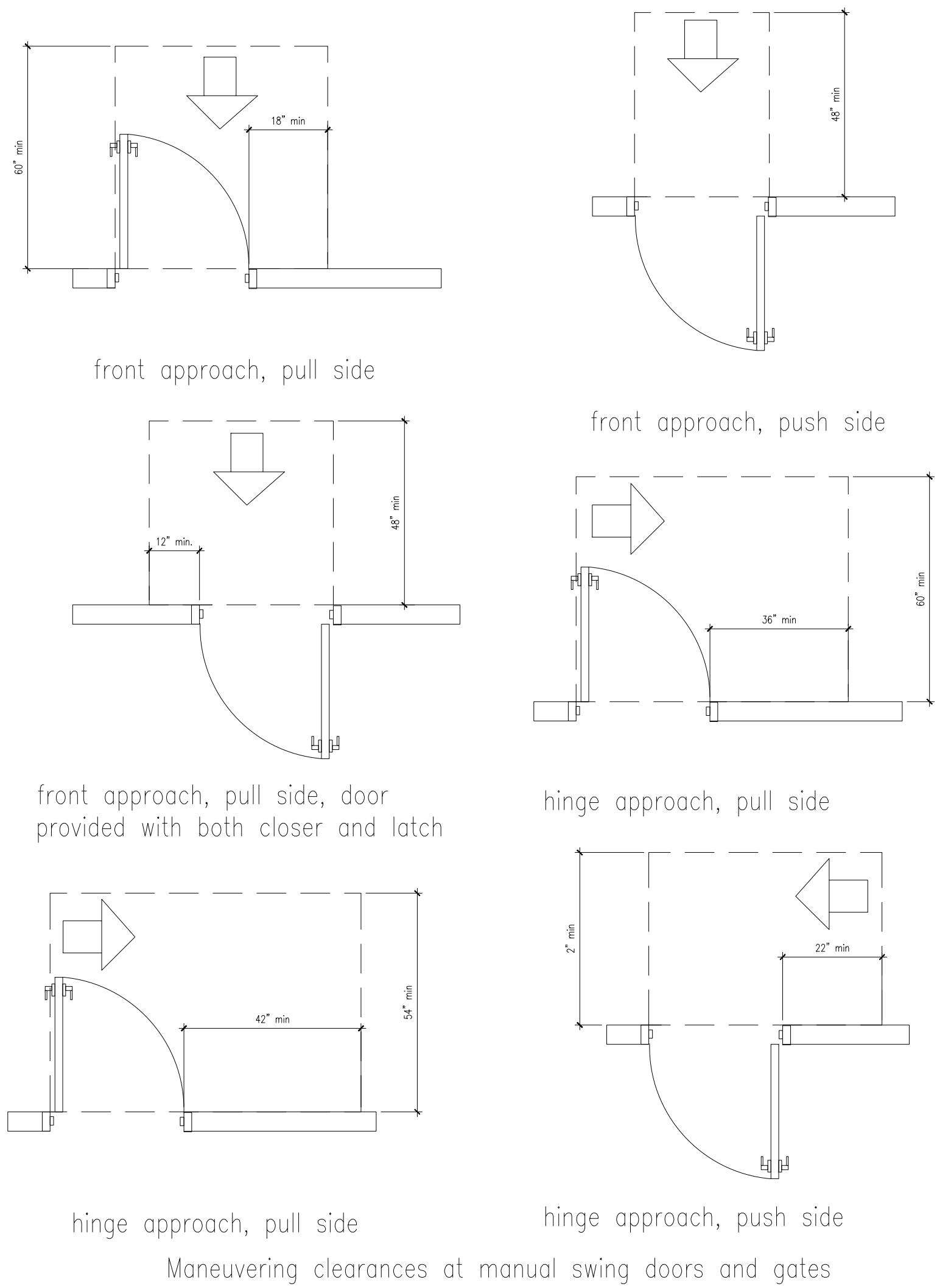
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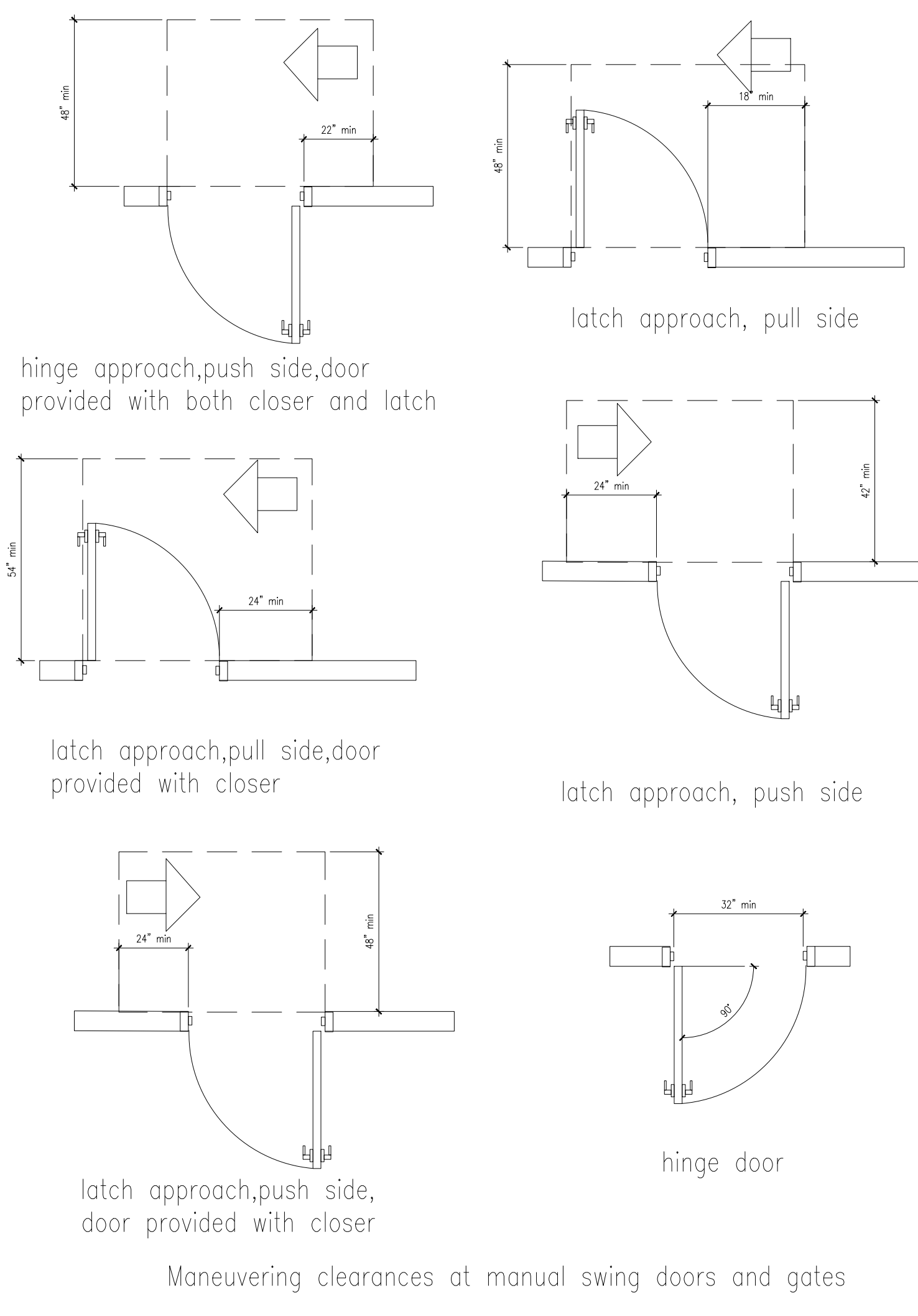
PROJECT: PORT OF BROWNSVILLE
ANCHOR PARK
OWNER: BROWNSVILLE NAVIGATION DISTRICT
PORT OF BROWNSVILLE
BROWNSVILLE, TEXAS

SHEET TITLE:
PARTIAL ARCHITECTURAL SITE PLAN

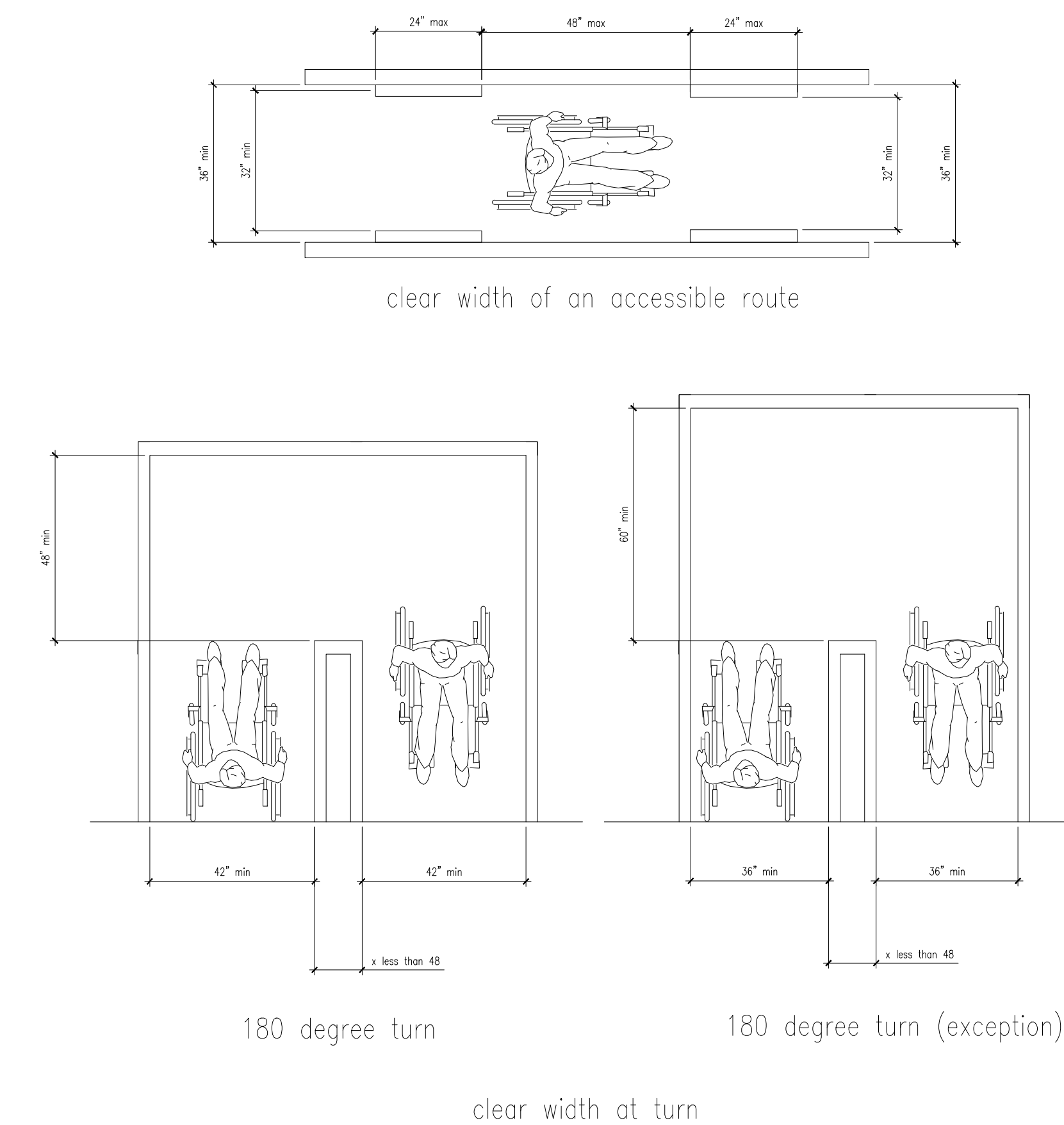
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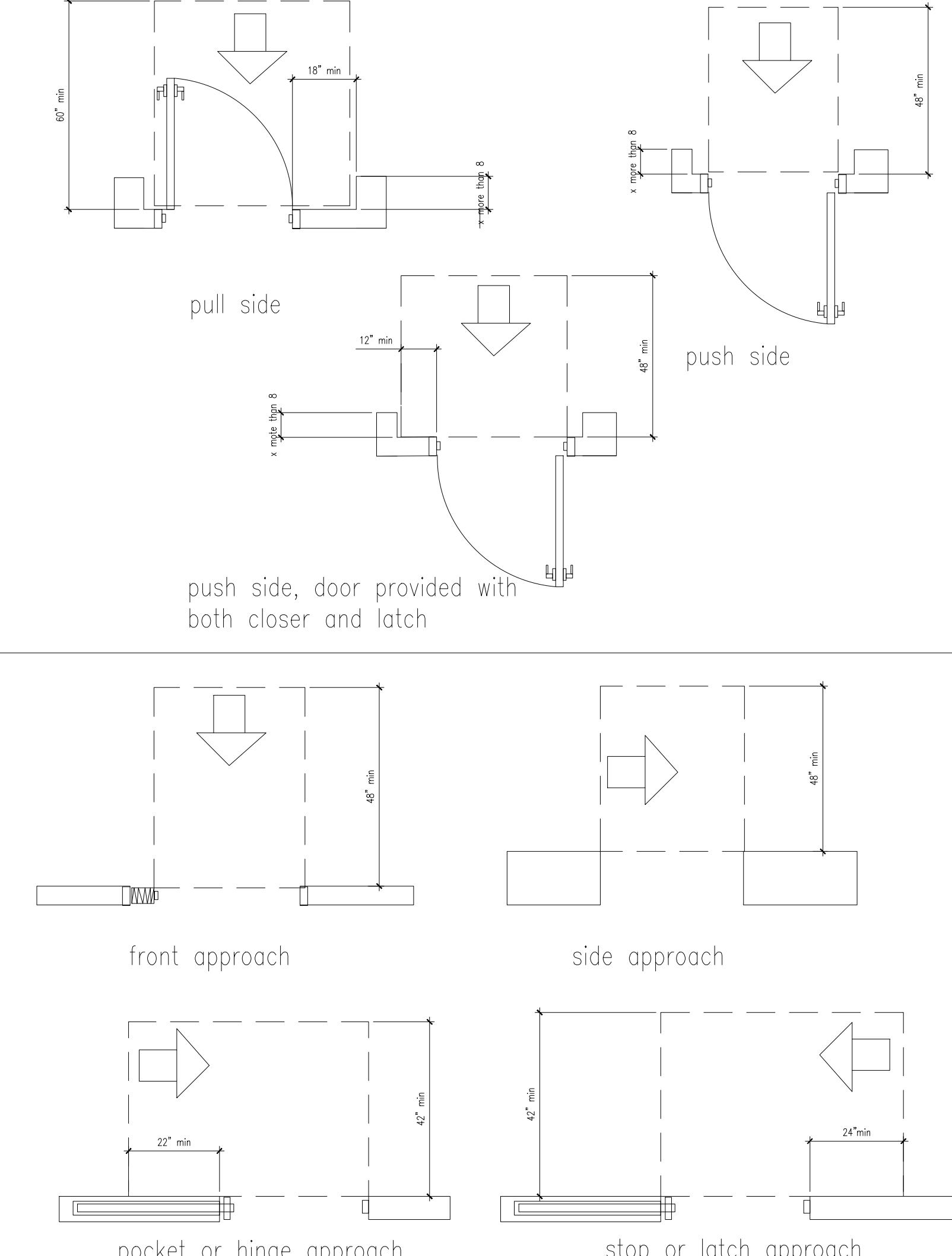
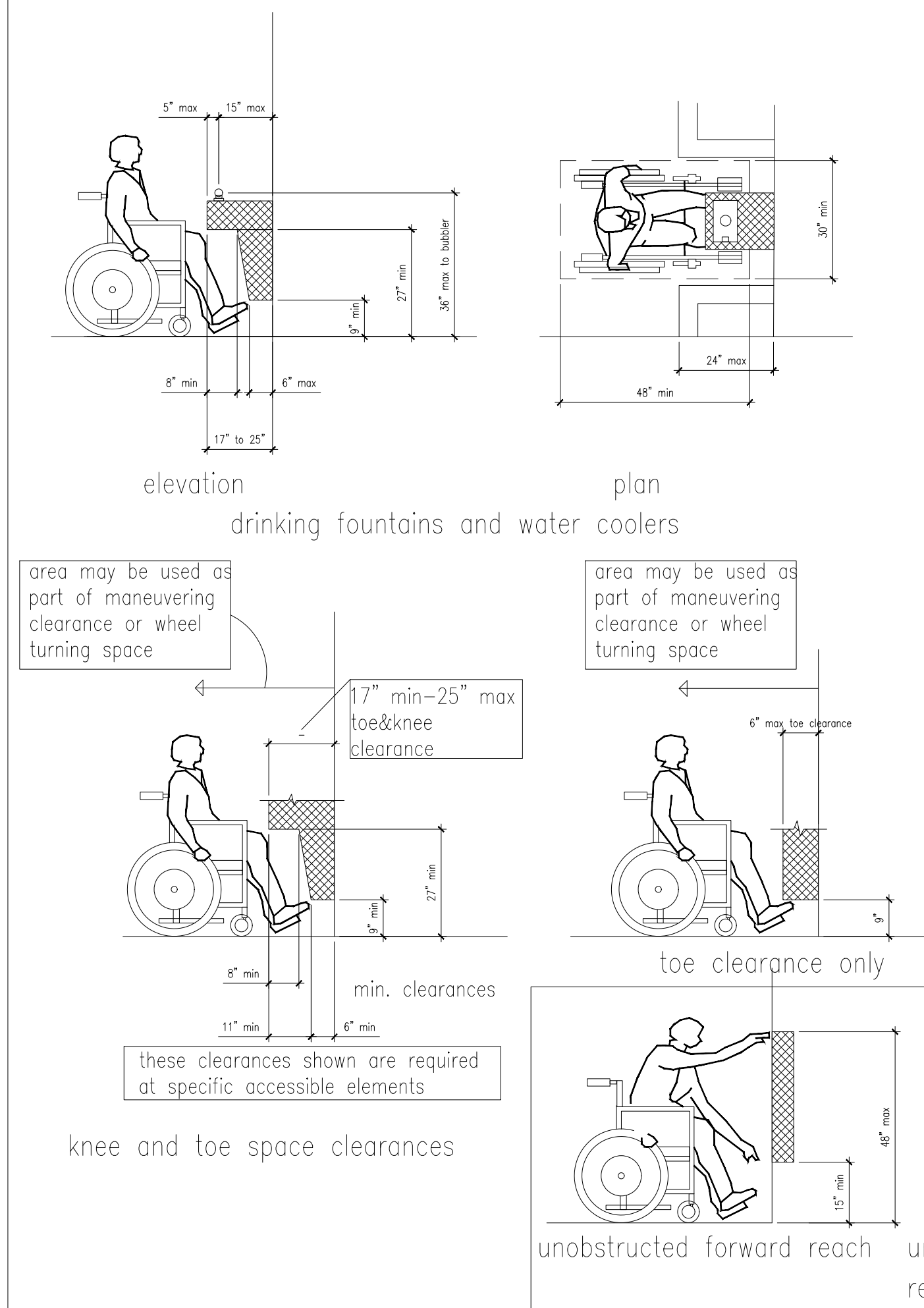
ARCHITECTURAL BARRIERS TEXAS ACCESSIBILITY STANDARDS (TAS)
CHAPTER 4: ACCESSIBILITY ROUTES



ARCHITECTURAL BARRIERS TEXAS ACCESSIBILITY STANDARDS (TAS)
CHAPTER 4: ACCESSIBILITY ROUTES

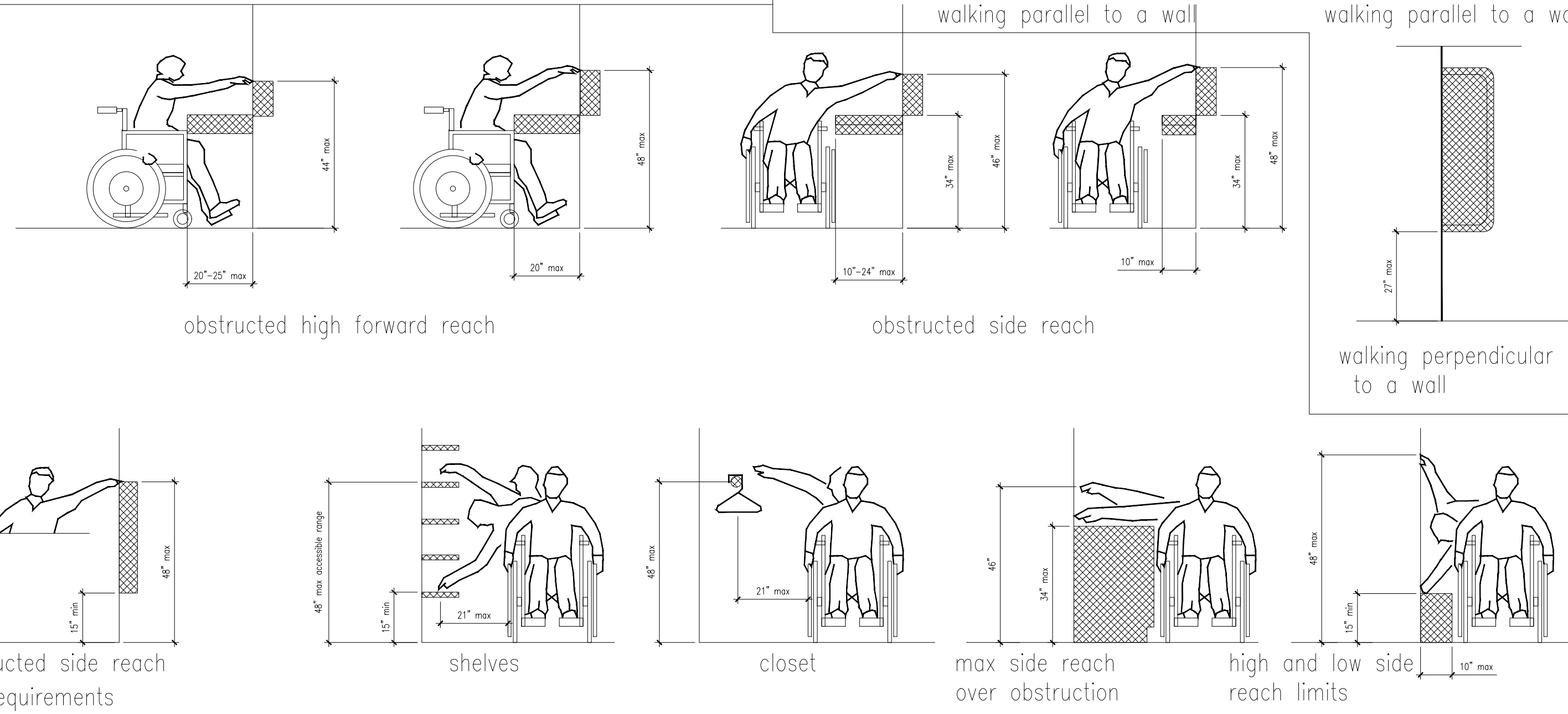


ARCHITECTURAL BARRIERS TEXAS ACCESSIBILITY STANDARDS (TAS)
CHAPTER 4: ACCESSIBILITY ROUTES



approach direction	perpendicular to doorway	parallel to doorway (beyond stoplatch side unless noted)
front approach	48"	0"
from side - doorway with no door only	42"	0"
from pocket/hinge side	42"	22" beyond pocket/hinge side
from stoplatch side	42"	24"

ARCHITECTURAL BARRIERS TEXAS ACCESSIBILITY STANDARDS (TAS)
CHAPTER 4: ACCESSIBILITY ROUTES

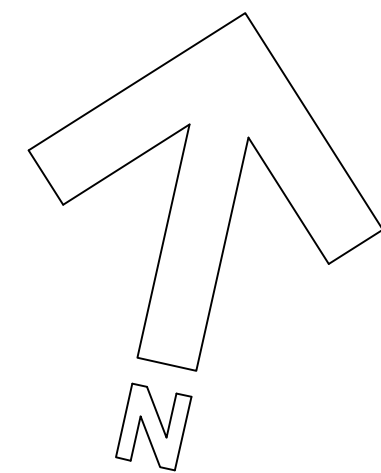
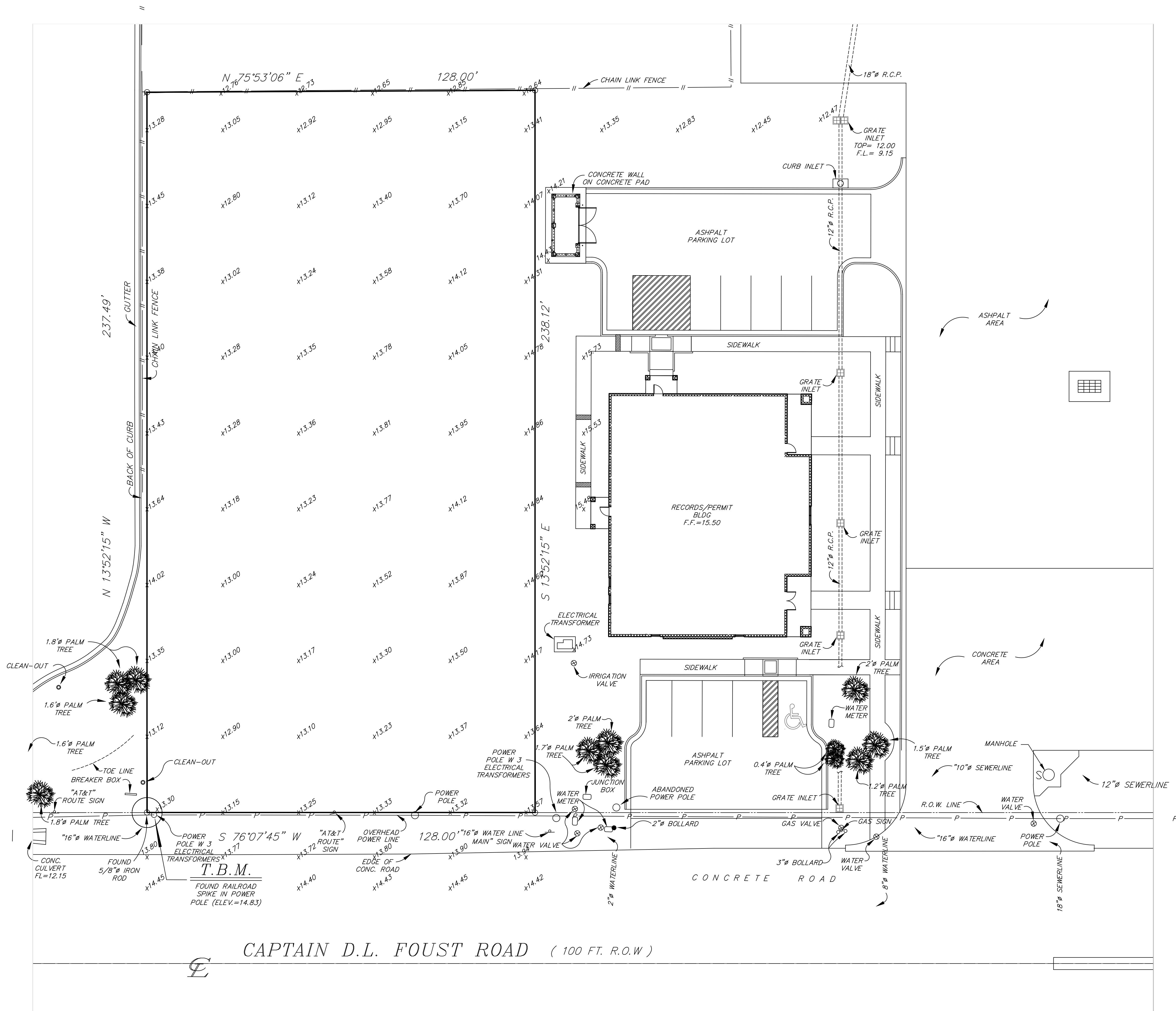


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PORT OF BROWNSVILLE
the port that works

PROJECT: PORT OF BROWNSVILLE
ANCHOR PARK
OWNER: BROWNSVILLE NAVIGATION DISTRICT
PORT OF BROWNSVILLE
BROWNSVILLE, TEXAS



1 PORT OF BROWNSVILLE PARTIAL SURVEY
1/16"=1'-0"



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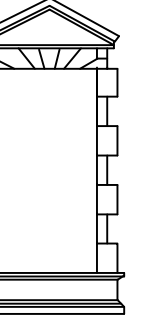
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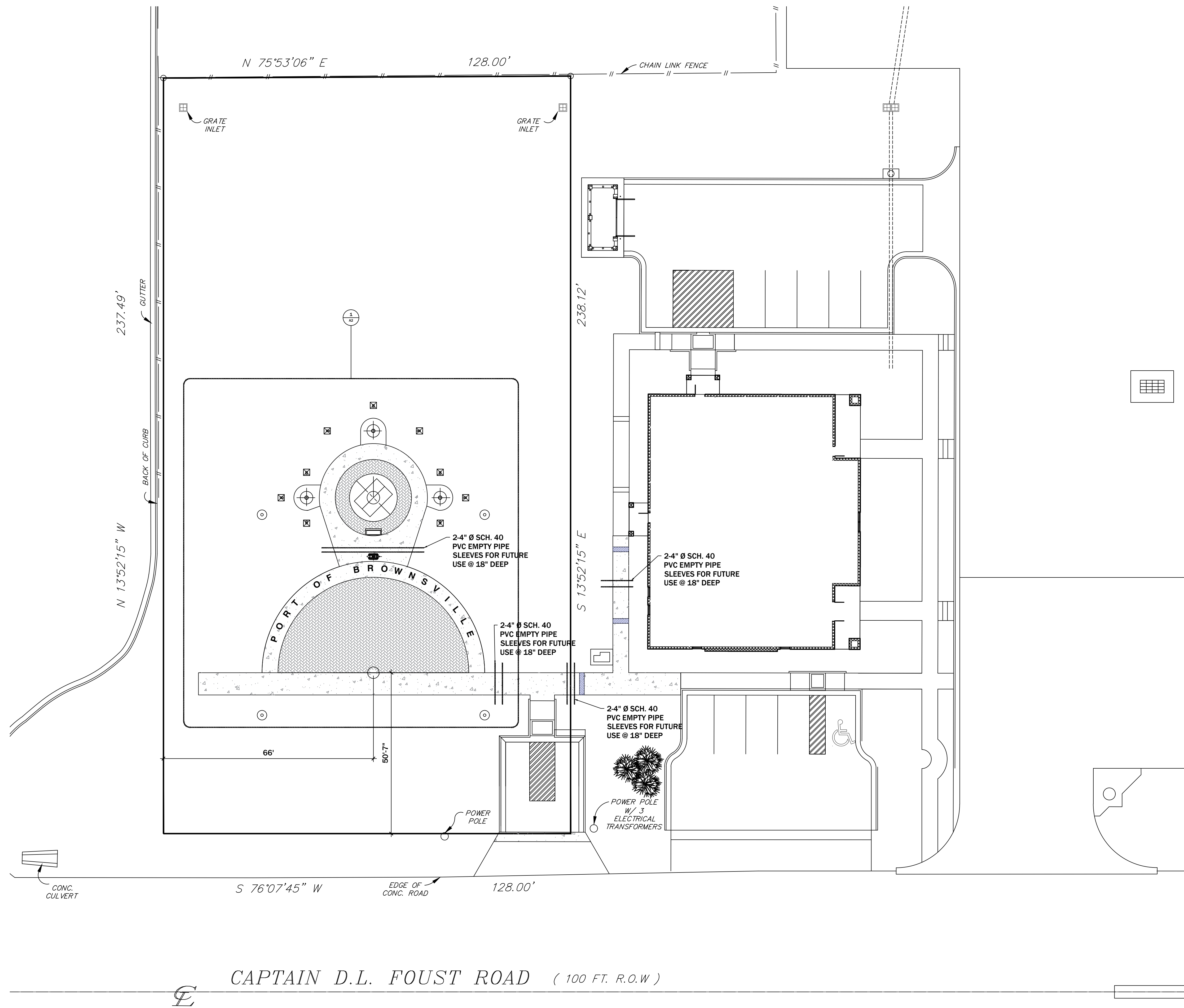
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PORT OF
BROWNSVILLE
the port that works

PROJECT: PORT OF BROWNSVILLE
MARITIME MEMORIAL PARK
OWNER: BROWNSVILLE NAVIGATION DISTRICT
PORT OF BROWNSVILLE
BROWNSVILLE, TEXAS

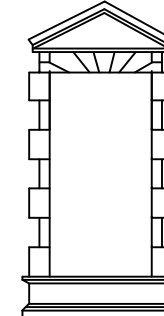
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PORT OF BROWNSVILLE PARTIAL SURVEY

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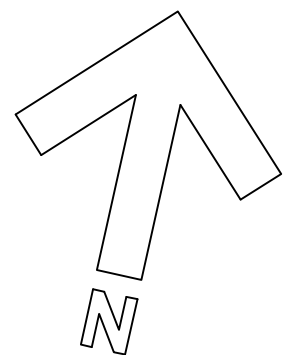
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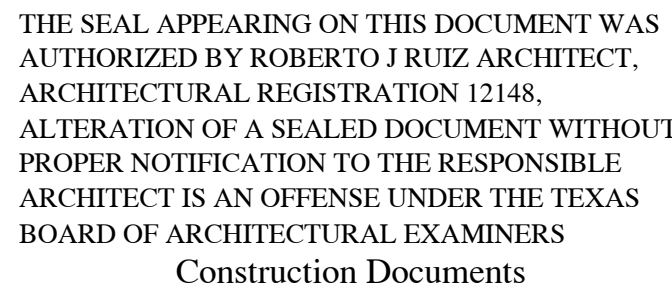
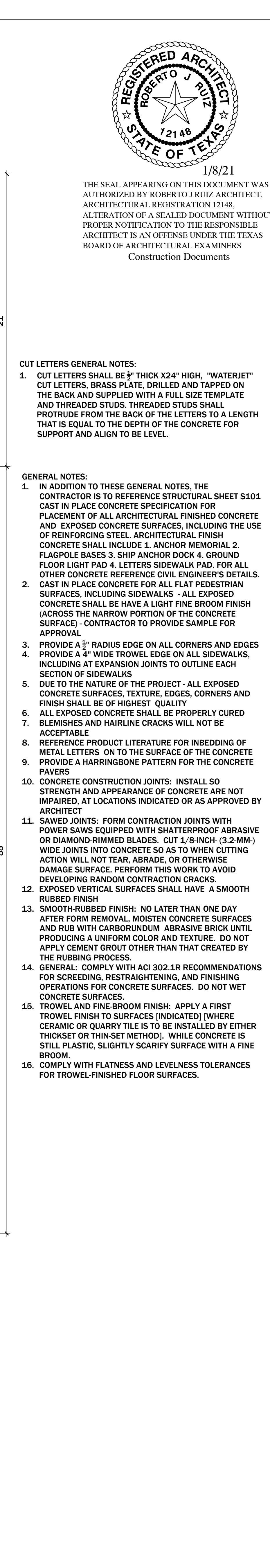
PROJECT: PORT OF BROWNSVILLE
MARITIME MEMORIAL PARK
OWNER: BROWNSVILLE NAVIGATION DISTRICT
PORT OF BROWNSVILLE
BROWNSVILLE, TEXAS

SHEET TITLE:
ARCHITECTURAL SITE PLAN



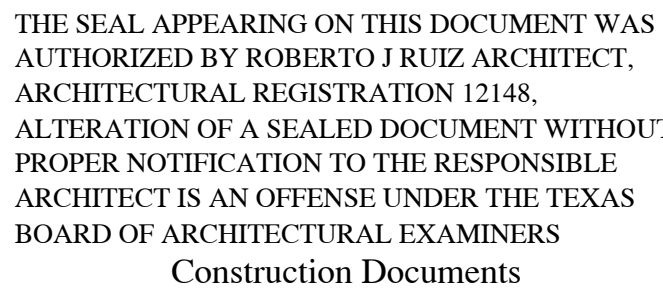
1 ARCHITECTURAL SITE PLAN
1/16"=1'-0"

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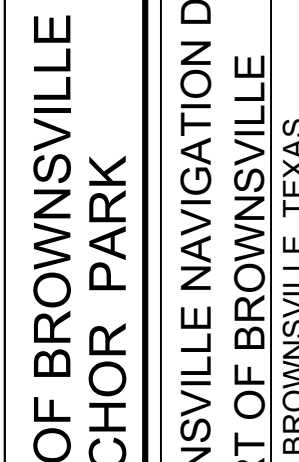
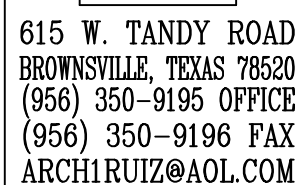


1. CUT LETTERS SHALL BE $\frac{3}{4}$ " THICK X24" HIGH, "WATERJET" CUT LETTERS, BRASS PLATE, DRILLED AND TAPPED ON THE BACK AND SUPPLIED WITH A FULL SIZE TEMPLATE AND THREADED STUDS. THREADED STUDS SHALL PROTRUDE FROM THE BACK OF THE LETTERS TO A LENGTH THAT IS EQUAL TO THE DEPTH OF THE CONCRETE FOR SUPPORT AND ALIGN TO BE LEVEL.

1. IN ADDITION TO THESE GENERAL NOTES, THE CONTRACTOR IS TO REFERENCE STRUCTURAL SHEET S101.
2. IN PLACE CONCRETE SPECIFICATION FOR PLACEMENT OF ALL ARCHITECTURAL FINISHED CONCRETE AND EXPOSED CONCRETE SURFACES, INCLUDING THE USE OF REINFORCING STEEL, ARCHITECTURAL FINISH CONCRETE SHALL INCLUDE 1. ANCHOR MEMORIAL 2. FLAT TOP BASES 3. FINISHES TO MATCH ADJACENT FLOOR LIGHT PAD 4. LETTERS SIDEWALK PAD. FOR ALL OTHER CONCRETE REFERENCE CIVIL ENGINEER'S DETAILS.
3. CAST IN PLACE CONCRETE FOR ALL FLAT PEDESTRIAN SURFACES, INCLUDING SIDEWALKS - ALL EXPOSED CONCRETE SHALL BE FINISHED WITH A LIGHT FINE BROOM FINISH (ACROSS THE NARROW PORTION OF THE CONCRETE SURFACE) - CONTRACTOR TO PROVIDE SAMPLE FOR APPROVAL
4. PROVIDE A 3/4" RADIUS EDGE ON ALL CORNERS AND EDGES
5. PROVIDE A 1/4" WIDE TROWEL EDGE ON ALL SIDEWALKS, INCLUDING AT EXPANSION JOINTS TO OUTLINE EACH SECTION OF SIDEWALKS
6. DUE TO THE NATURE OF THE PROJECT, ALL EXPOSED CONCRETE SURFACES, TEXTURE, EDGES, CORNERS AND FINISH SHALL BE OF THE FOLLOWING:
7. ALL EXPOSED CONCRETE SHALL BE PROPERLY CURED
8. BLEMISHES AND HAIRLINE CRACKS WILL NOT BE ACCEPTABLE
9. REFERENCE PRODUCT LITERATURE FOR INBEDDING OF METAL LETTERS ON TO THE SURFACE OF THE CONCRETE
10. PROVIDE A HARRINGBONE PATTERN FOR THE CONCRETE PAVERS
11. CONCRETE CONSTRUCTION JOINTS: INSTALL SO STRUTTED FINISH TO MATCH ADJACENT CONCRETE ARE NOT IMPAIRED, AT LOCATIONS INDICATED OR AS APPROVED BY ARCHITECT
12. SAVED JOINTS: FORM CONSTRUCTION JOINTS WITH POWER SAWS EQUIPPED WITH SHATTERPROOF ABRASIVE OR CARBIDE RIMMED BLADES, CUT 1/8" INCH (2-3MM) WIDE JOINTS INTO CONCRETE SO AS TO WHEN CUTTING ACTION WILL NOT TEAR, ABRADE, OR OTHERWISE DAMAGE SURFACE. PERFORM THIS WORK TO AVOID DEVELOPING RANDOM CONSTRUCTION CRACKS
13. EXPOSED VERTICAL SURFACES SHALL HAVE A SMOOTH RUBBED FINISH
14. SMOOTH-RUBBED FINISH: NO LATER THAN ONE DAY AFTER FORM REMOVAL. MOISTEN CONCRETE SURFACES WITH WATER AND CARPENTRY BRUSHES UNTIL PRODUCING A UNIFORM COLOR AND TEXTURE. DO NOT APPLY CEMENT GROUT OTHER THAN THAT CREATED BY THE RUBBING PROCESS.
15. GENERAL: COMPLY WITH ACI 302.1R RECOMMENDATIONS FOR CURETIMING, PROTECTING, AND FINISHING OPERATIONS FOR CONCRETE SURFACES, DO NOT WET CONCRETE SURFACES.
16. TROWEL AND FINE-BROOM FINISH: APPLY A FIRST TROWEL FINISH TO CONCRETE SURFACES (UNTIL CERAMIC OR QUARRY TILE IS TO BE INSTALLED BY EITHER THICKEST OR THIN-SET METHOD). WHILE CONCRETE IS STILL PLASTIC, SLIGHTLY SCARIFY SURFACE WITH A FINE BROOM.
17. CONCRETE WITH FLATNESS AND LEVELNESS TOLERANCES FOR TROWEL-FINISHED FLOOR SURFACES.



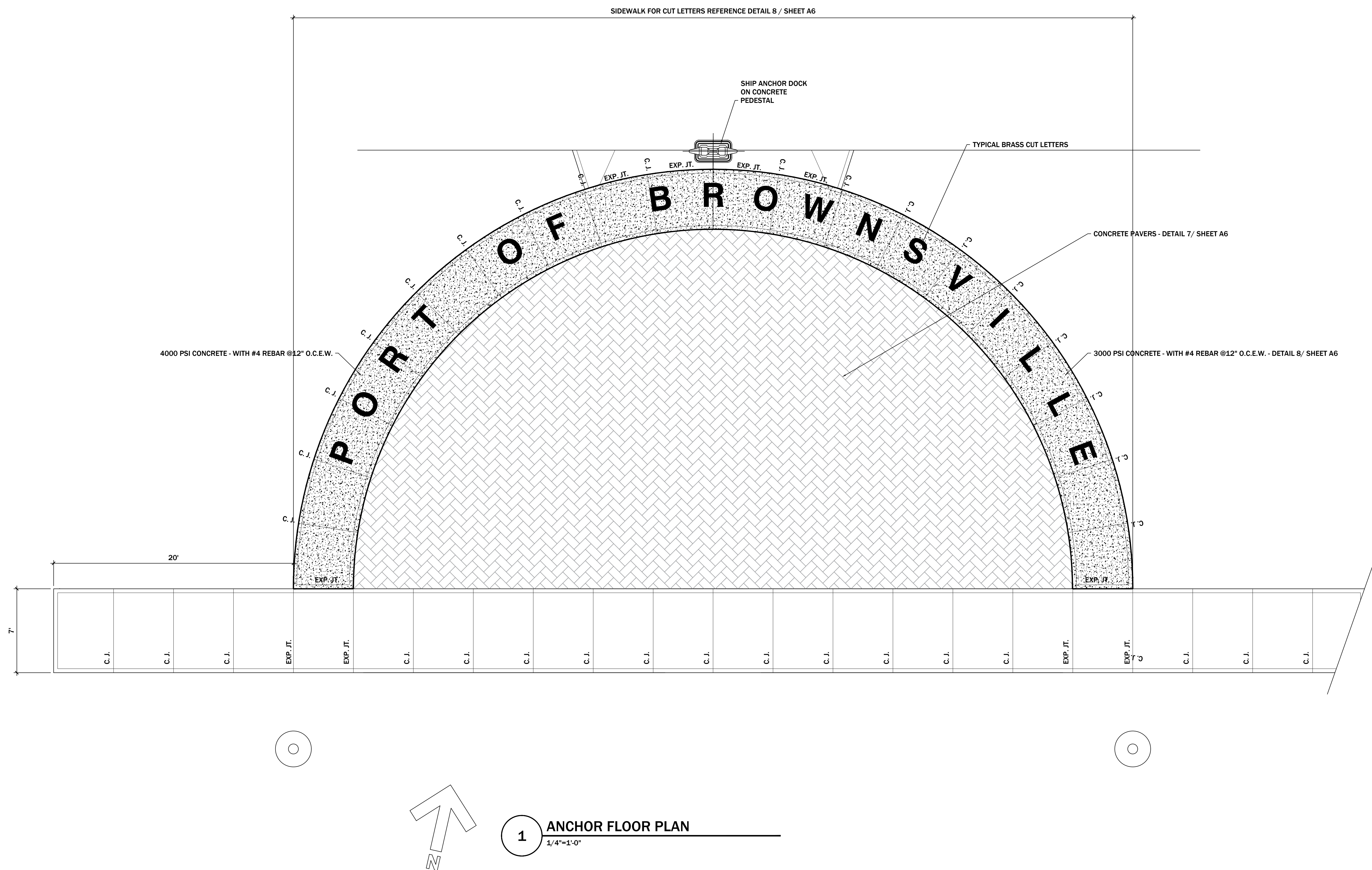
1. CUT LETTERS SHALL BE $\frac{3}{8}$ " THICK X24" HIGH, "WATERJET" CUT LETTERS, BRASS PLATE, DRILLED AND TAPPED ON THE BACK AND SUPPLIED WITH A FULL SIZE TEMPLATE AND THREADED STUDS. THREADED STUDS SHALL PROTRUDE FROM THE BACK OF THE LETTERS TO A LENGTH THAT IS EQUAL TO THE DEPTH OF THE CONCRETE.

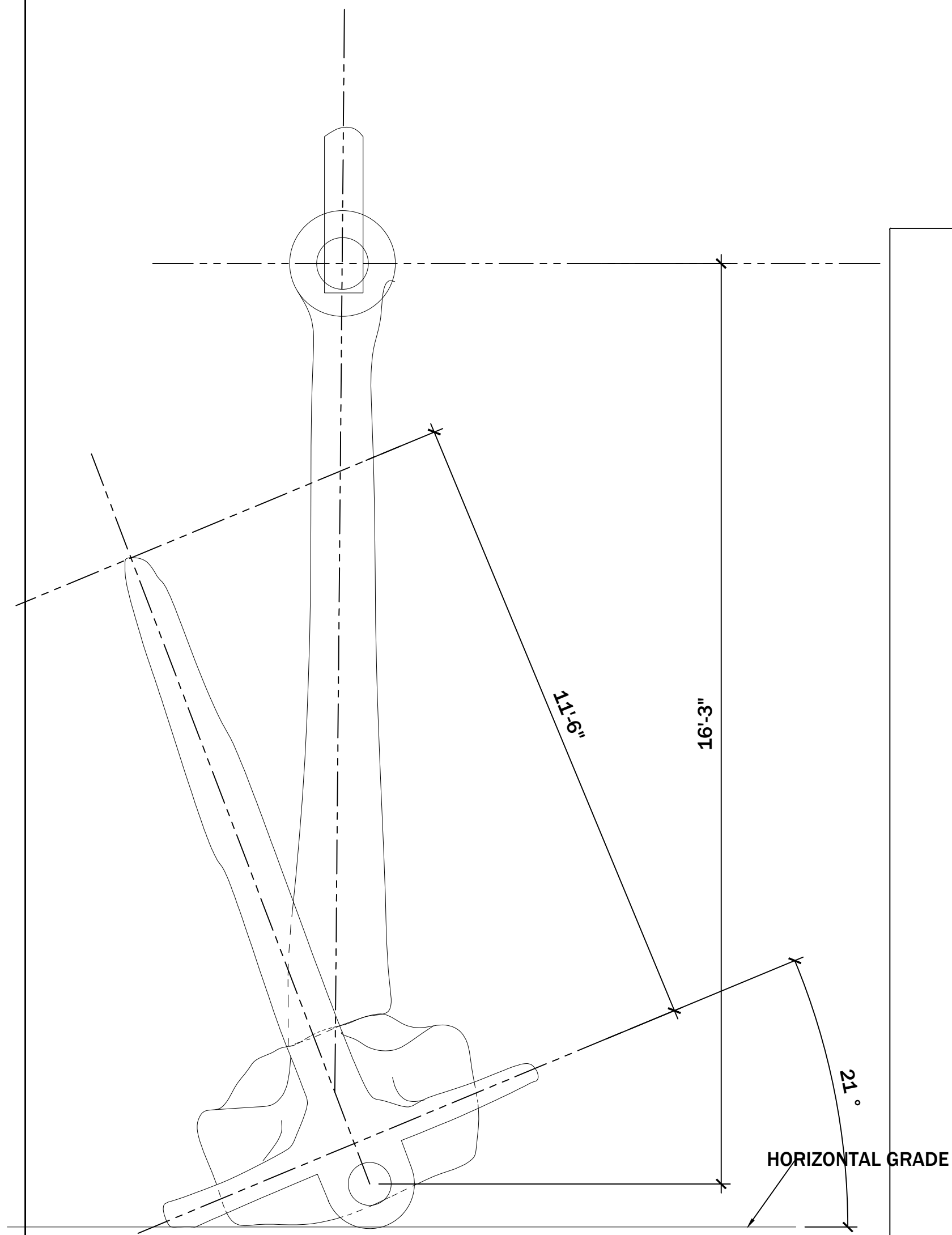


PROJECT: PORT OF BROWNSVILLE
ANCHOR PARK

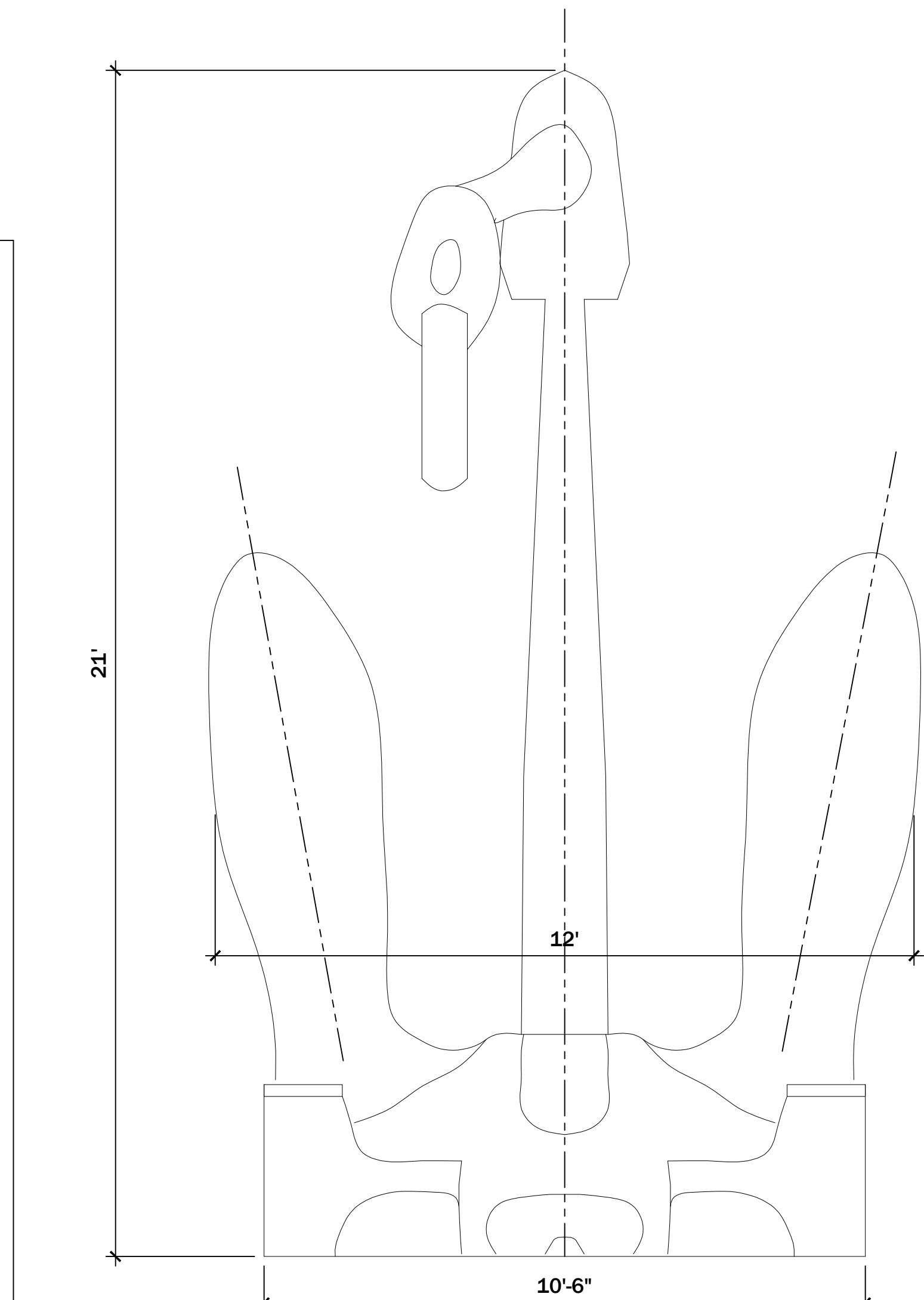
OWNER: BROWNSVILLE NAVIGATION DISTRICT
PORT OF BROWNSVILLE
BROWNSVILLE, TEXAS

SHEET TITLE:
PARTIAL ARCHITECTURAL SITE PLAN

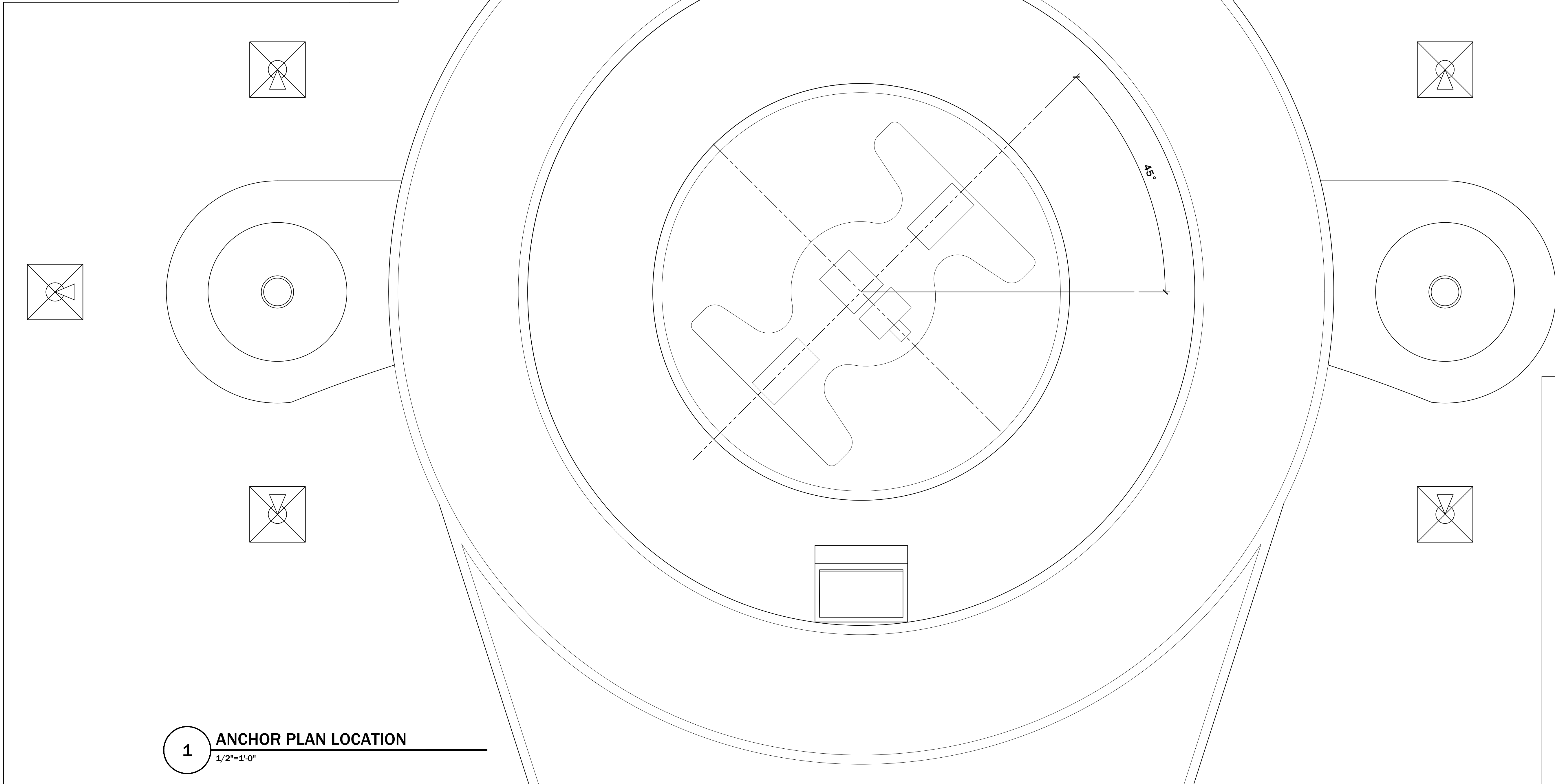




2 ANCHOR SIDE ELEVATIONS
1/2"=1'-0"



3 ANCHOR FRONT / REAR ELEVATION
1/2"=1'-0"



1 ANCHOR PLAN LOCATION
1/2"=1'-0"

- GENERAL NOTES FOR THE USS SARATOGA ANCHOR:
1. USS SARATOGA ANCHOR
 2. LOCATED AT STEELCOAST RECOVERY - REMEDIATION - RECYCLING 16200 JOE GARZA SR. RD. - PORT OF BROWNSVILLE
 3. ANCHOR IS A SOLID STEEL "PIVOT" ANCHOR
 4. ESTIMATED WEIGHT = 60,000 LBS. PLUS CHAIN
 5. APPROX. = 10'-6" WIDE X 7'-6" DEEP X 21' HIGH
 6. ANCHOR WILL BE CLEANED, PRIMED AND DELIVERED BY STEELCOAST CO. TO THE FRONT OF THE PROPOSED PARK ALONG FOUST ROAD
 7. GENERAL CONTRACTOR TO PROVIDE LIFT CRANE AND LIFT ANCHOR TO BE SET AT DESIGNATED LOCATION ON THE PARK, PROVIDE PRIMER "TO MATCH EXISTING" AND PAINT TOUCH UP ANCHOR AS NEEDED AND PROVIDE TWO FINISH COATS OF MARINE GRADE PAINT
 8. GENERAL CONTRACTOR TO PROVIDE STEEL WELDED PINS TO PROP ANCHOR TO ITS FINAL STAND AS SHOWN ON DETAIL 2 OF THIS SHEET



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PORT OF
BROWNSVILLE
the port that works

PROJECT: PORT OF BROWNSVILLE
ANCHOR PARK
OWNER: BROWNSVILLE NAVIGATION DISTRICT
PORT OF BROWNSVILLE
BROWNSVILLE, TEXAS

SHEET TITLE:
ANCHOR DETAILS

SHEET NO. A4
OF
SET NUMBER

REVISED:

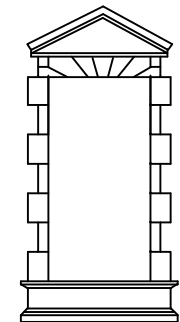
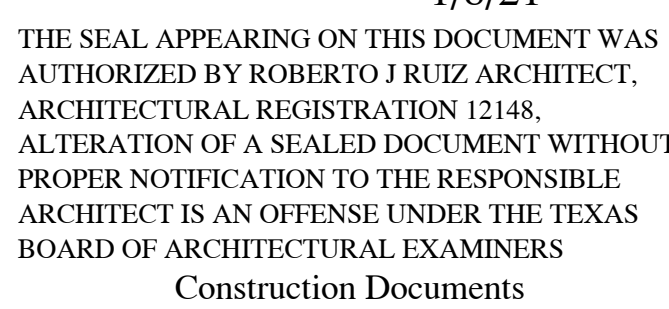
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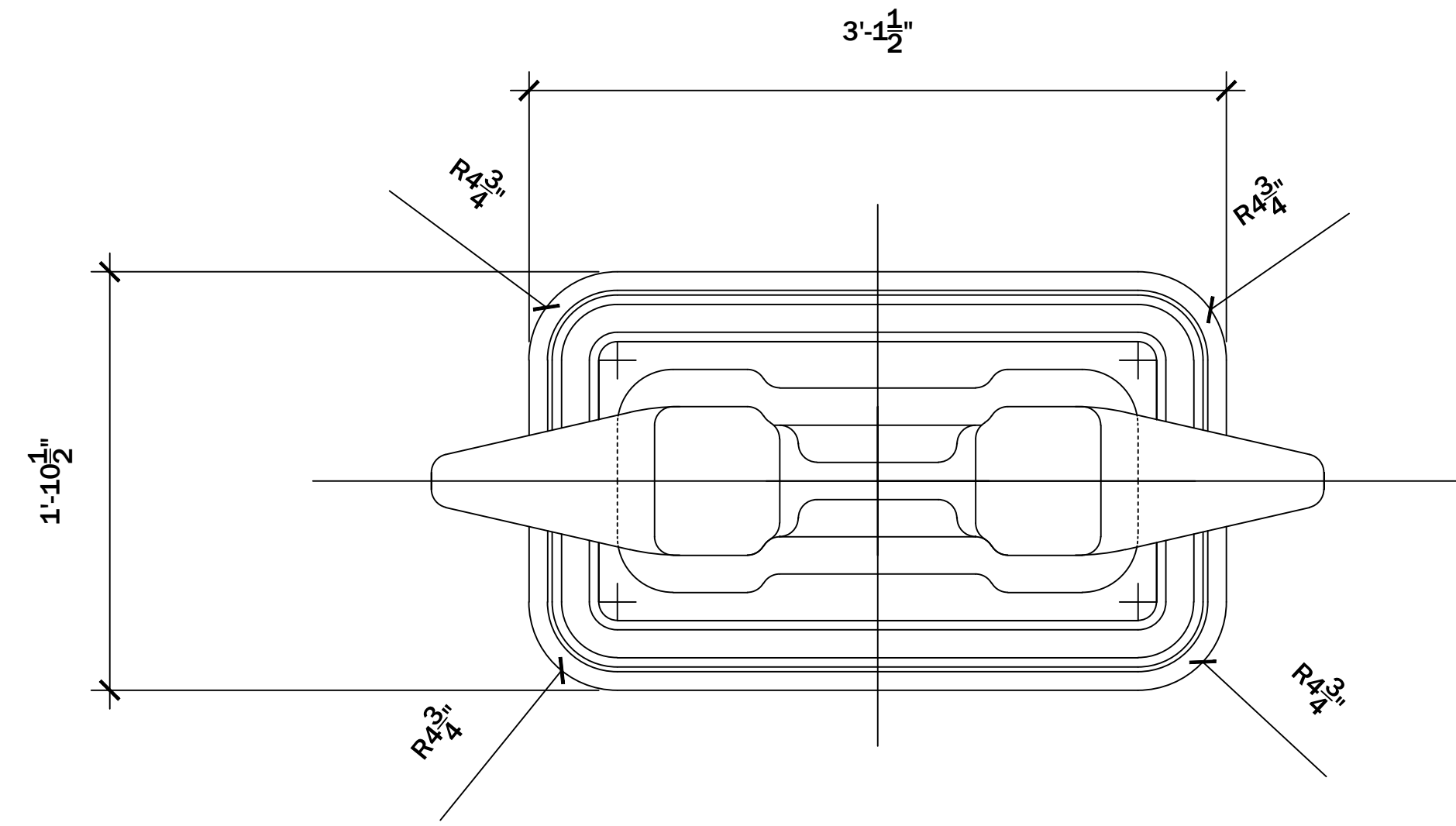
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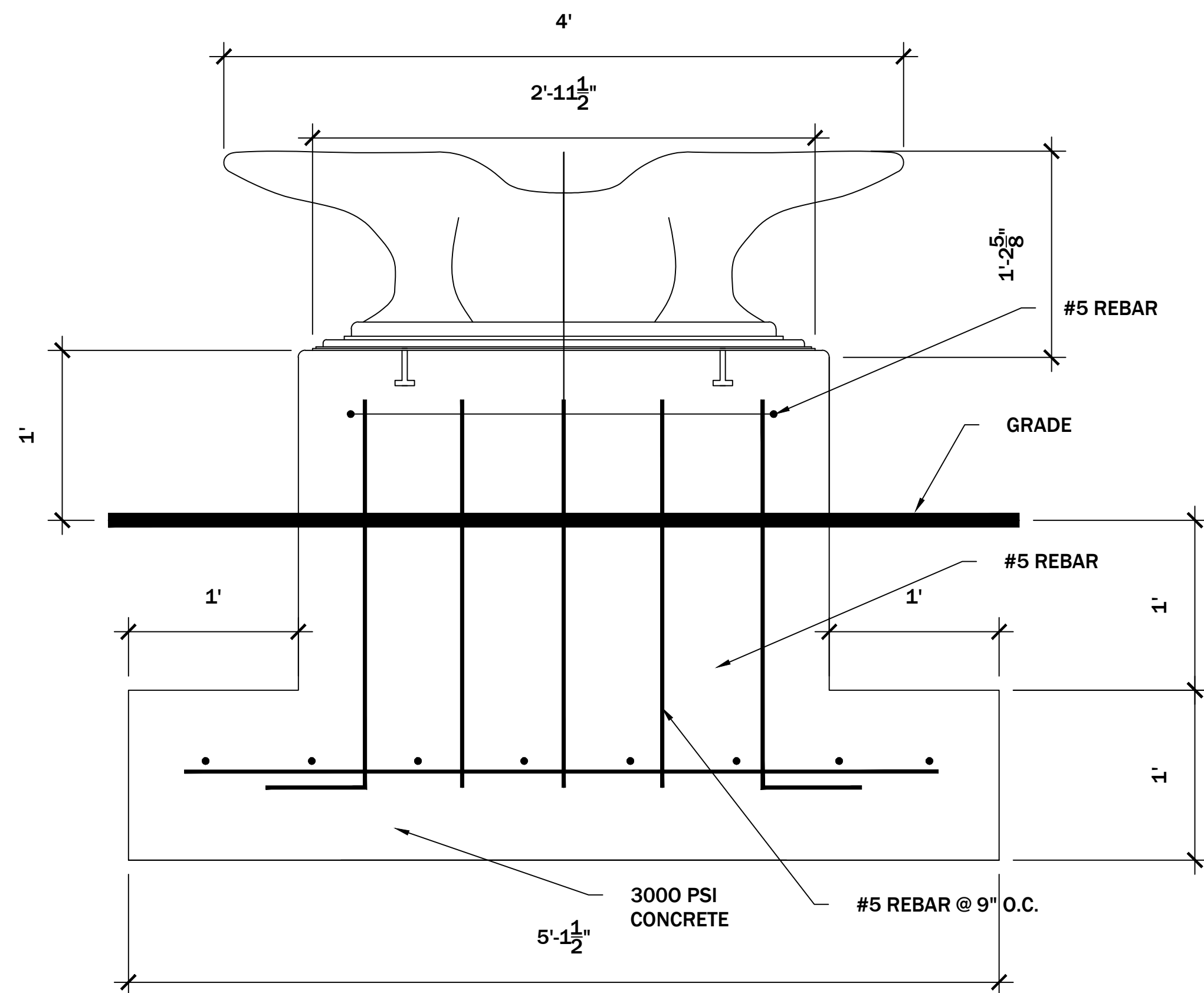
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1. DIG FOUNDATION HOLE FOUR TO SIX TIMES THE BUTT DIAMETER OF THE FLAGPOLE.
2. SET THE FOUNDATION TUBE SO THAT THE TOP OF THE FOUNDATION TUBE IS TWO INCHES ABOVE GRADE.
3. PLUMB FOUNDATION TUBE AND BRACE SO THAT IT WILL NOT MOVE DURING THE POURING CONCRETE.
4. POUR CONCRETE AND TROWEL UP EVEN WITH TOP OF FOUNDATION TUBE. KEEP INSIDE OF FOUNDATION TUBE CLEAN.
5. LAY POLE ON SAW HORSES AND UNWRAP. FOR SECTIONAL POLES CHECK BOTH ENDS OF ANY BURS. IF ANY ARE FOUND, FILE THEM OFF AND WIPE AREAS CLEAN. FULLY GREASE JAM SLEEVES. ALIGN THE ARROWS AND/OR NUMBERS ON EACH SECTION AND JAMB TOGETHER. NUMBERS MUST BE IDENTICAL FOR PROPER FIT.
6. SCREW THE TRUCK INTO THE TOP OF THE POLE. USING A WRENCH TO ENSURE A TIGHT FIT. IF CAP-STYLE TRUCK IS USED, BE SURE SET SCREWS ARE WELL TIGHTENED.
7. SCREW BALL (IF INCLUDED) INTO TRUCK AND TIGHTEN BALL SET SCREW. BALL SHOULD BE TIGHTENED INTO TRUCK TIGHTLY BY TURNING STEM OF BALL WITH WRENCH. DO NOT TIGHTEN BY TURNING BALL PROPER.
8. PLACE COLLAR IN FOUNDATION TUBE. COLLAR IS PROVIDED WITH POLE. SLIDE COLLAR ON FROM THE BOTTOM OF POLE TO ABOVE CLEAT LEVEL AND ATTACH CLEAT WITH ONE SCREW TO HOLD FLASH COLLAR UNTIL AFTER ERECTION OF POLE. THEN REMOVE CLEAT. SLIDE COLLAR DOWN, AND REPLACE CLEAT. CAULK BETWEEN THE COLLAR AND THE POLE WITH WATERPROOF SEALANT (LIKE ROOFING CEMENT OR ASPHALTUM SEALANT).
9. THREAD ROPE THROUGH SHEAVE (PULLEY) OF TRUCK AND TIE THE ENDS TOGETHER SO THAT THE ROPE WILL NOT DROP OUT OF THE SHEAVE DURING ERECTION OF THE POLE. (NOT FOR INTERNAL HALYARD POLES)
10. ERECT POLE INTO FOUNDATION TUBE AND CENTER IT. TURN SO THAT CLEAT(S) HOLES ARE IN THE CENTER OF THE TUBE.
11. PLACE WOOD WEDGES (SUPPLIED BY OTHERS) BETWEEN THE POLE AND FOUNDATION TUBE AND PLUMB POLE.
12. PACK DRY SAND BETWEEN THE POLE AND FOUNDATION TUBE. LEAVE TWO INCHES VOID AT THE TOP AND FILL WITH WATERPROOF SEALANT TO KEEP WATER OUT OF SAND.
13. LOOP SNAPS ON ROPE, SPACE PROPERLY FOR FLAG SIZE BEING USED. (NOT ON INTERNAL HALYARD POLES) IMPORTANT: WHEN ERECTING SECTIONAL POLES, NEVER PLACE YOUR SLING ABOVE THE JOINT. SLING MUST BE POSITIONED BELOW THE JOINT THUS ELIMINATING THE POSSIBILITY THAT THE TWO SECTIONS COULD SEPARATE DURING HOISTING.
14. ALSO FOR YARDARM-TYPE FLAGPOLES, PLEASE LOCATE (3) PRE DRILLED HOLES APPROXIMATELY 1/3 DOWN FROM THE TOP OF POLE. TAKE THE 6"x9" PLATE AND ATTACH IT AT THIS POINT. THEN ATTACH U BOLTS AROUND THE YARDARM AND THROUGH THE PLATE; SECURE NUTS AND WASHERS, INCLUDING THE (4) SMALL ACORN NUTS FOR THE ENDS OF THE U BOLTS.
14. SYSTEM MUST BE GROUNDED

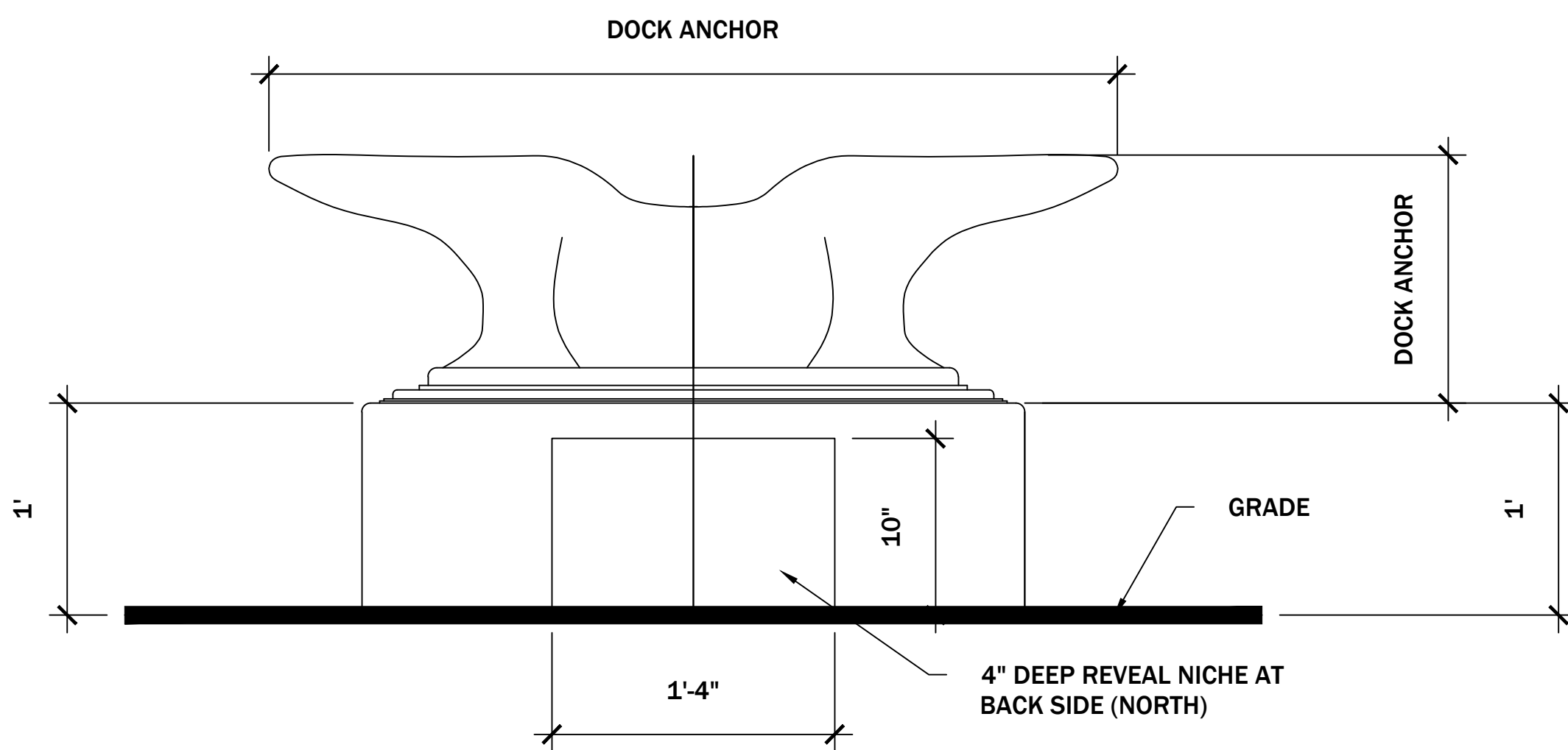




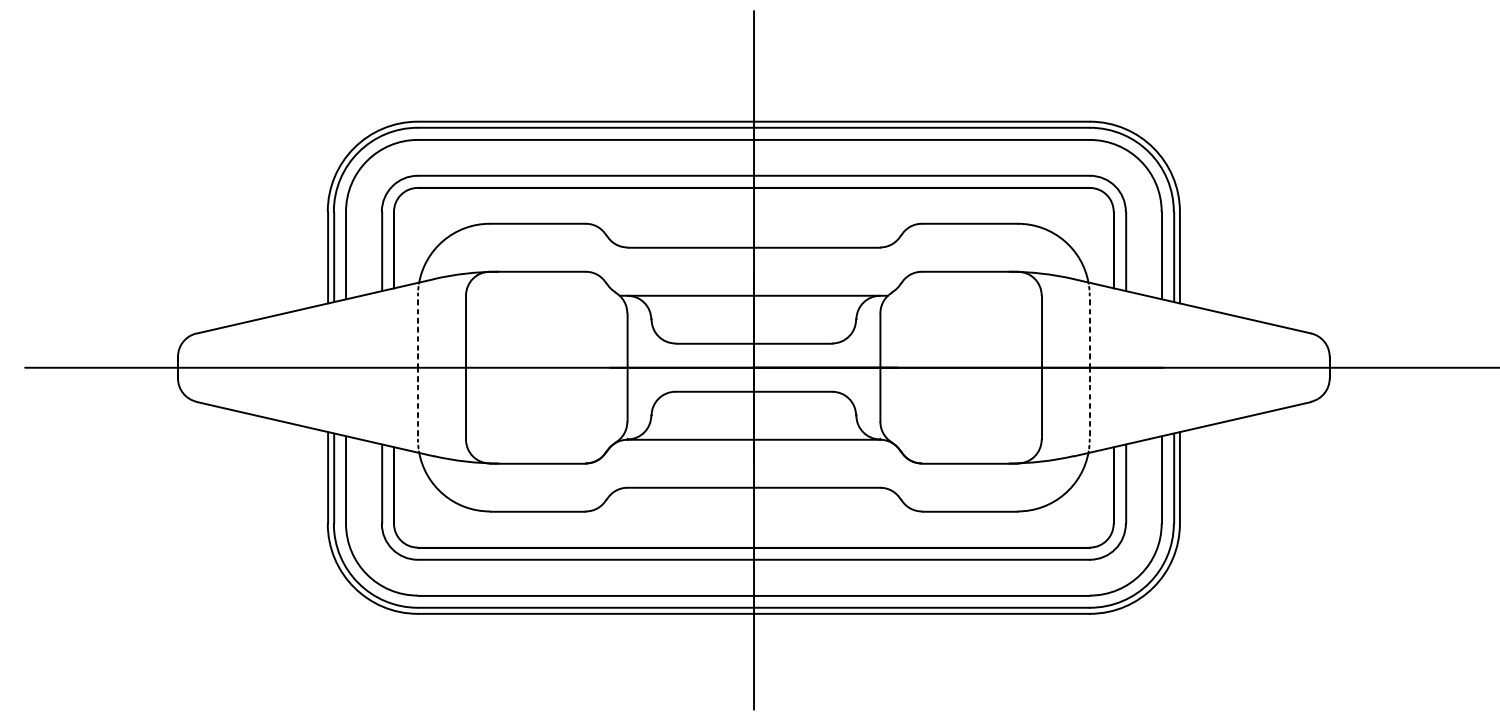
1 **PLAN**
1 1/2"=1'-0"



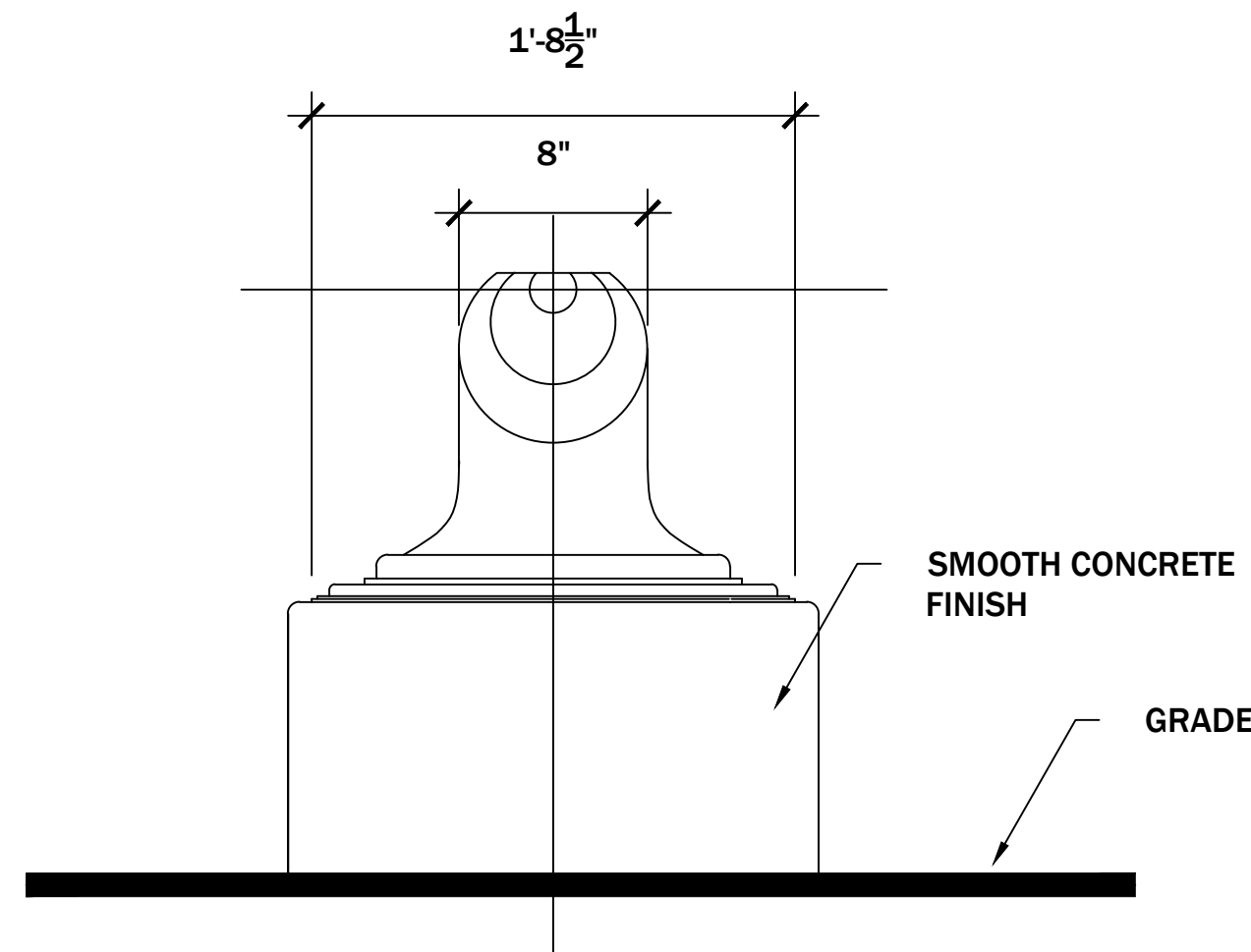
3 **CROSS SECTION**
1 1/2"=1'-0"



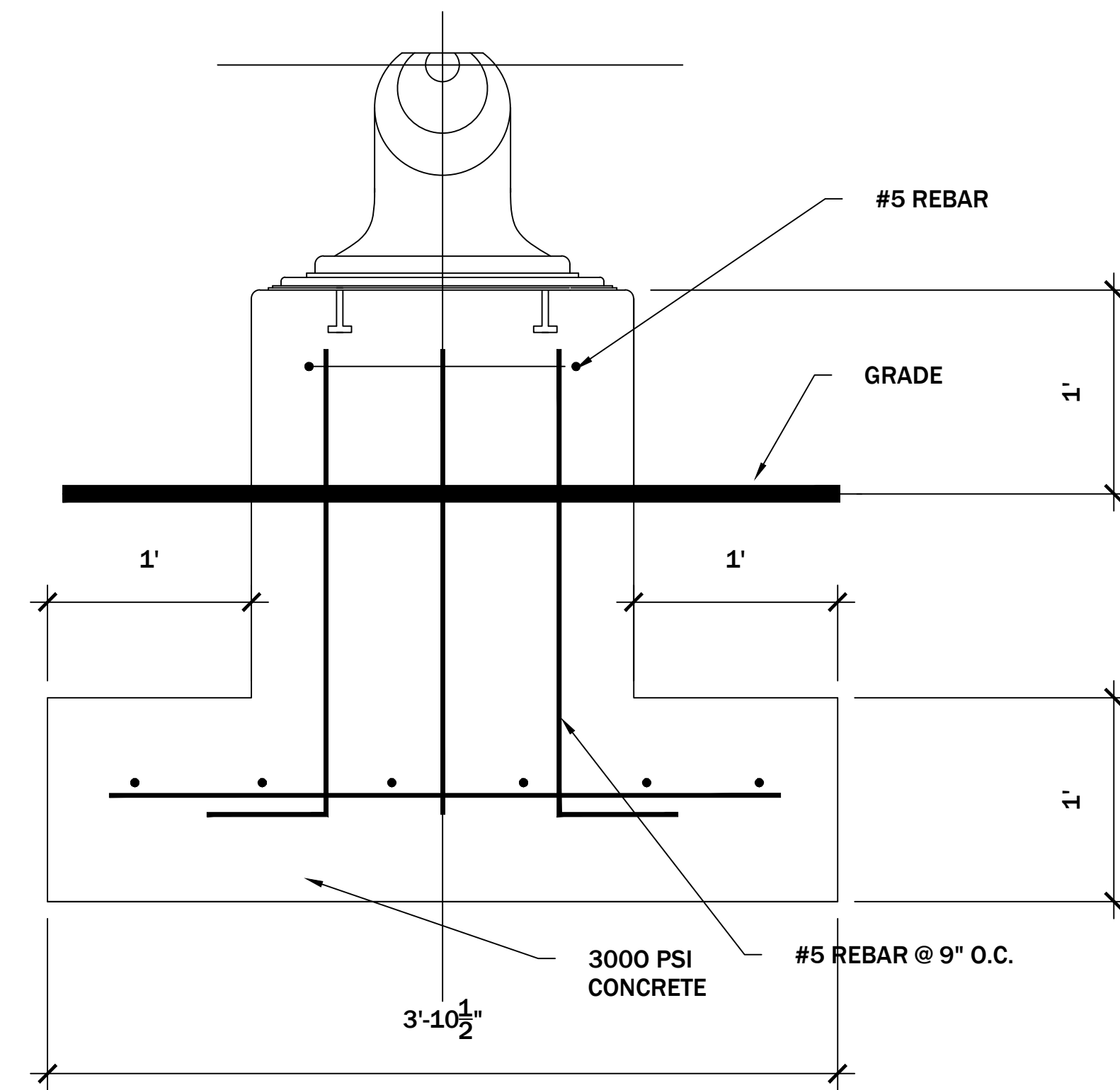
6 **RIGHT / LEFT ELEVATION**
1 1/2"=1'-0"



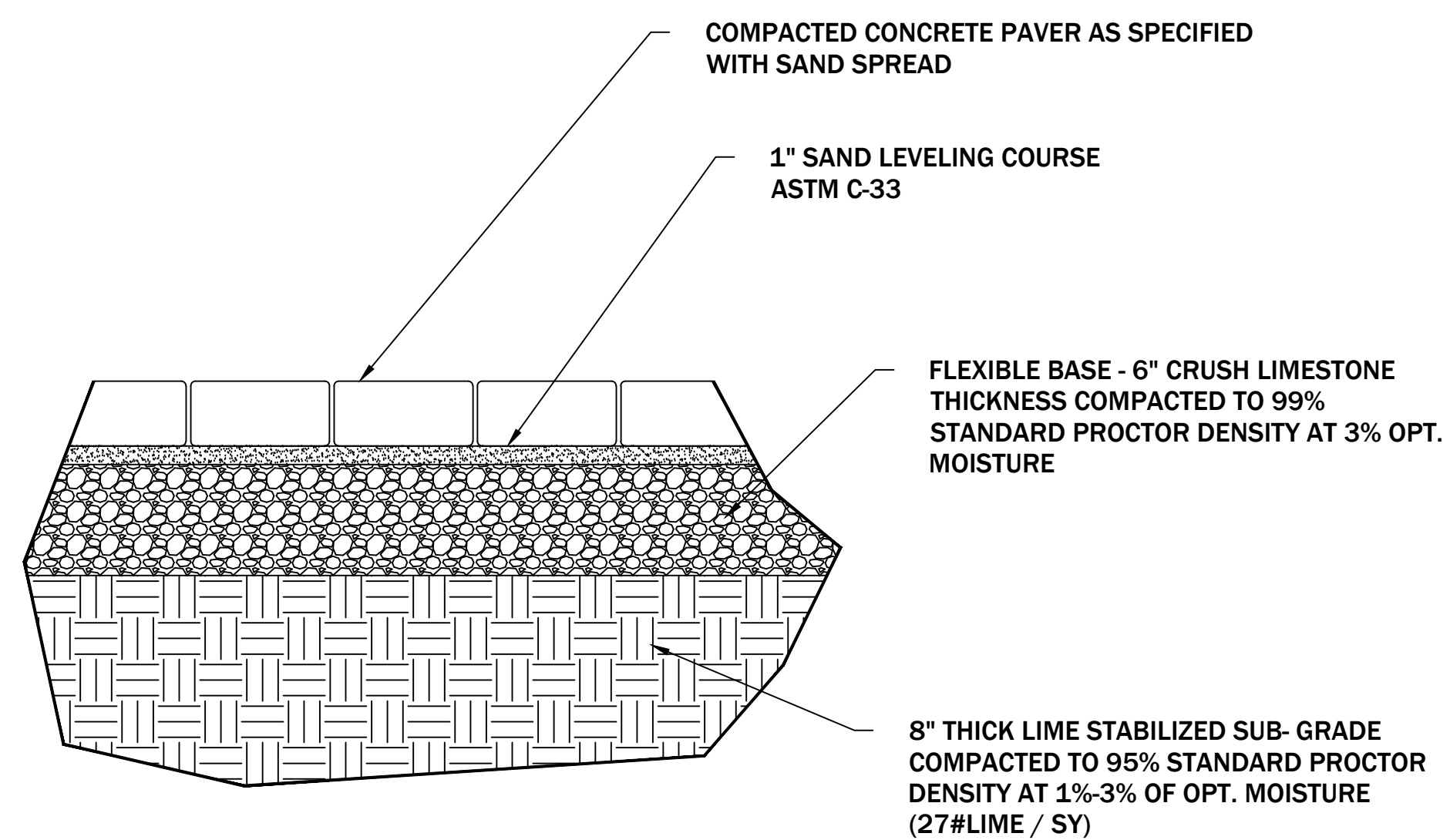
2 **DOCK ANCHOR PLAN**
1 1/2"=1'-0"



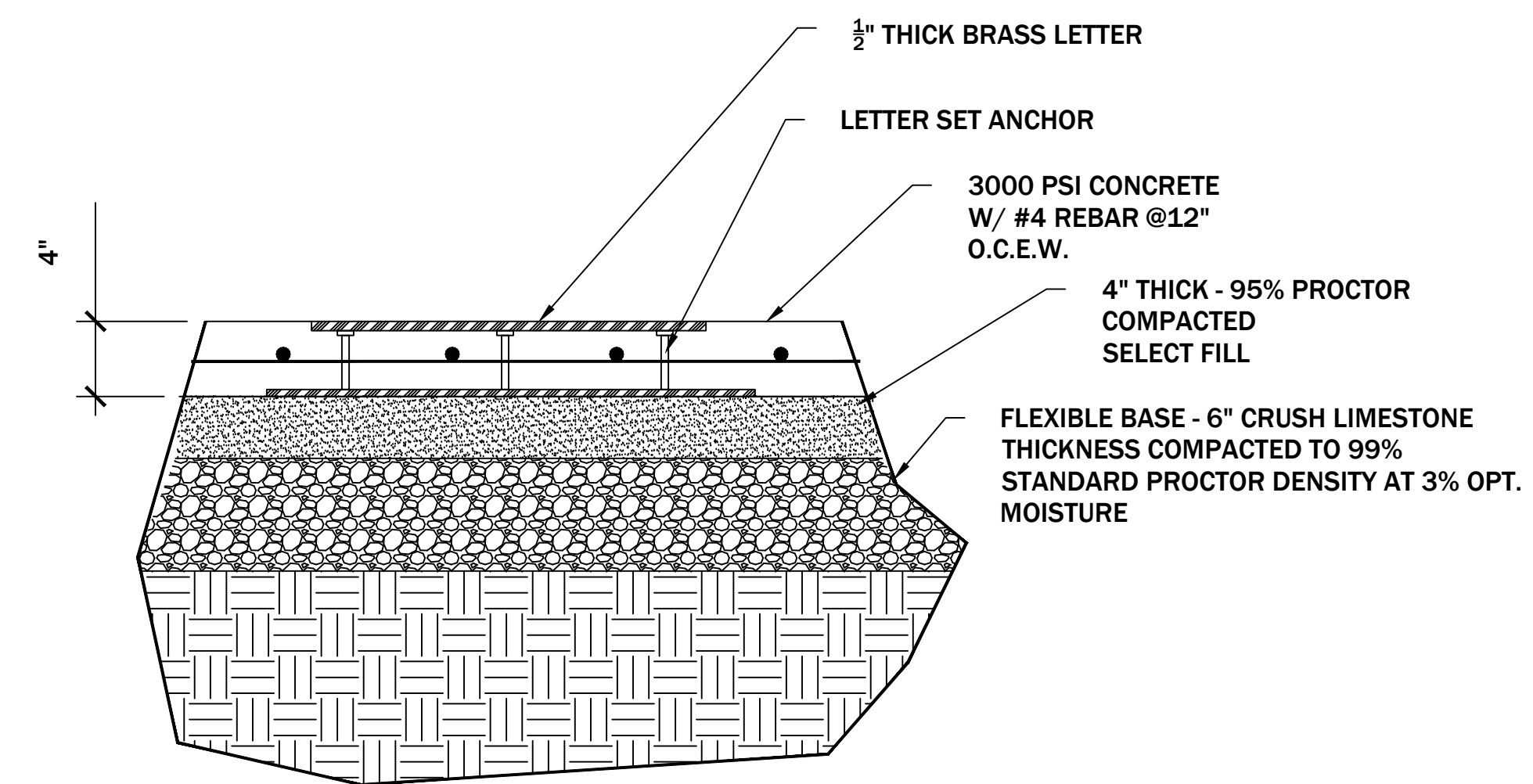
4 **FRONT / BACK ELEVATION**
1 1/2"=1'-0"



5 **CROSS SECTION**
1 1/2"=1'-0"



7 **CONCRETE PAVERS DETAIL**
1 1/2"=1'-0"



8 **CONCRETE SIDEWALK @ LETTERS**
1 1/2"=1'-0"

- GENERAL NOTES FOR THE STEEL DOCK ANCHOR:
1. STEEL DOCK ANCHOR
 2. LOCATED AT STEELCOAST RECOVERY - REMEDIATION - RECYCLING 16200 JOE GARZA SR. RD. - PORT OF BROWNSVILLE
 3. DOCK ANCHOR IS A SOLID STEEL ANCHOR
 4. ESTIMATED WEIGHT = 500 LBS.
 5. APPROX. = 4' LONG X 1'-9" WIDE X 1'-3" HIGH
 6. ANCHOR WILL BE CLEANED, PRIMED AND DELIVERED BY STEELCOAST CO. TO THE FRONT OF THE PROPOSED PARK ALONG FOUST ROAD
 7. GENERAL CONTRACTOR TO PROVIDE LIFT CRANE, LIFT ANCHOR TO BE SET IN DESIGNATED LOCATION ON THE PARK, PROVIDE PRIMER "TO MATCH EXISTING" AND PAINT TOUCH UP ANCHOR AS NEEDED AND PROVIDE TWO FINISH COATS OF MARINE GRADE PAINT
 8. GENERAL CONTRACTOR TO PROVIDE FOUR WELDED 3/4" X 6 3/8" STEEL ANCHORS STUDS WELDED TO THE BOTTOM OF THE DOCK ANCHOR AND SET IN CAST IN PLEASE CONCRETE PEDESTAL



1/8/21
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ENGINEERING DEPARTMENT
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FAX (956) 831-6153
EMAIL achavez@portofbrownsville.com**

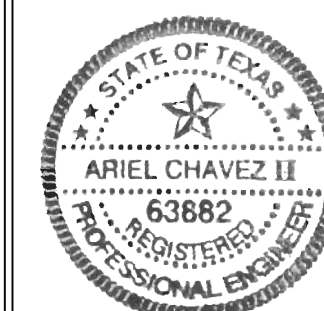
SHEET TITLE:
EXISTING SITE

PROJECT: PORT OF BROWNSVILLE
ANCHOR PARK

OWNER: BROWNSVILLE NAVIGATION DISTRICT
PORT OF BROWNSVILLE
BROWNSVILLE, TEXAS



PORT of
BROWNSVILLE
the port that works



1.08.2021




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ARCHITECT, INC.

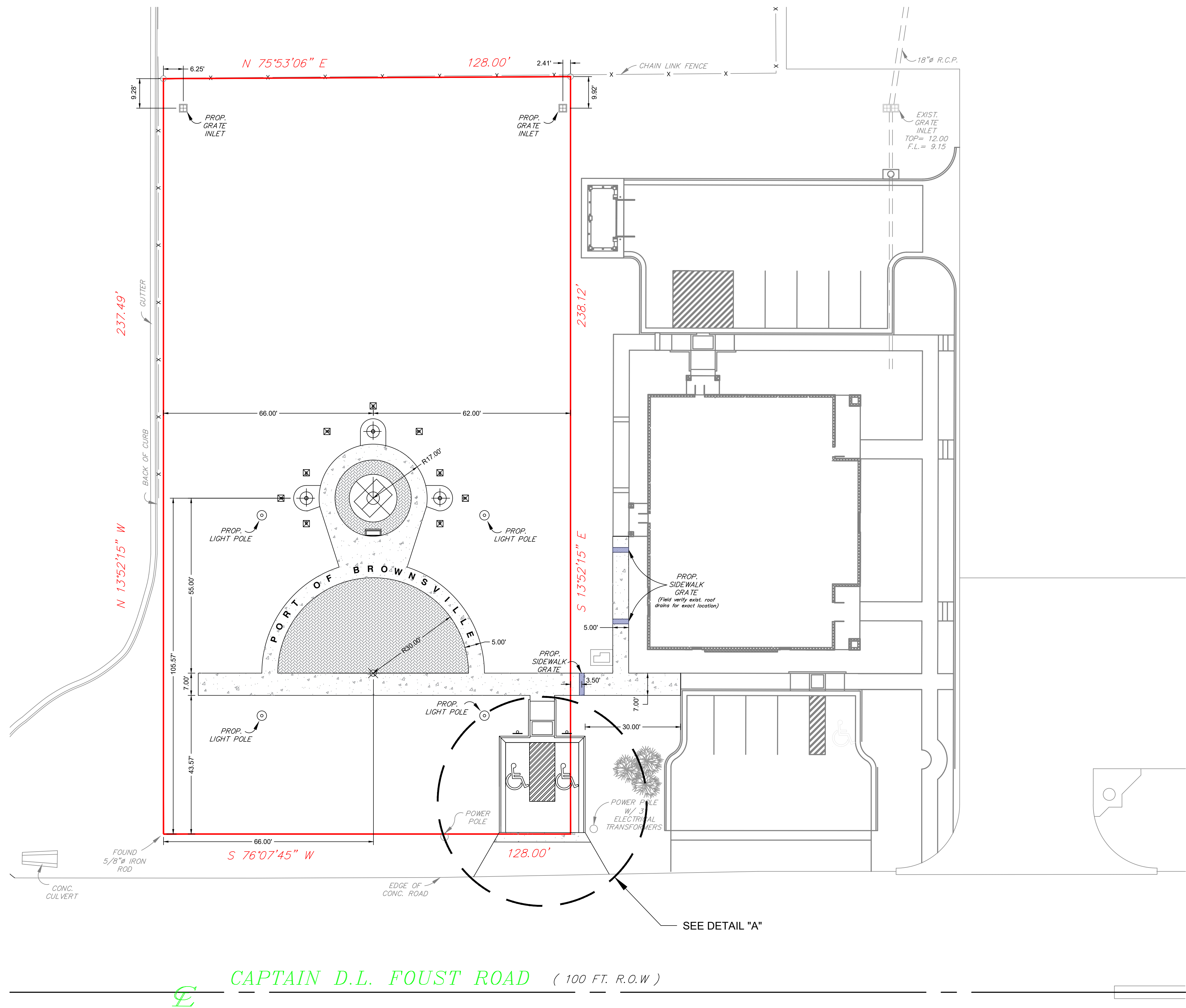
615 W. TANDY ROAD
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(956) 350-9195 OFFICE
(956) 350-9196 FAX
ARCH1RUIZ@AOL.COM

DATE: 9/30/16
DRAWN BY: JRR
PROJECT NO.:

SET NUMBER

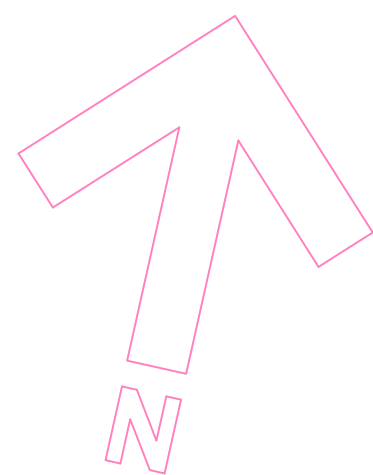
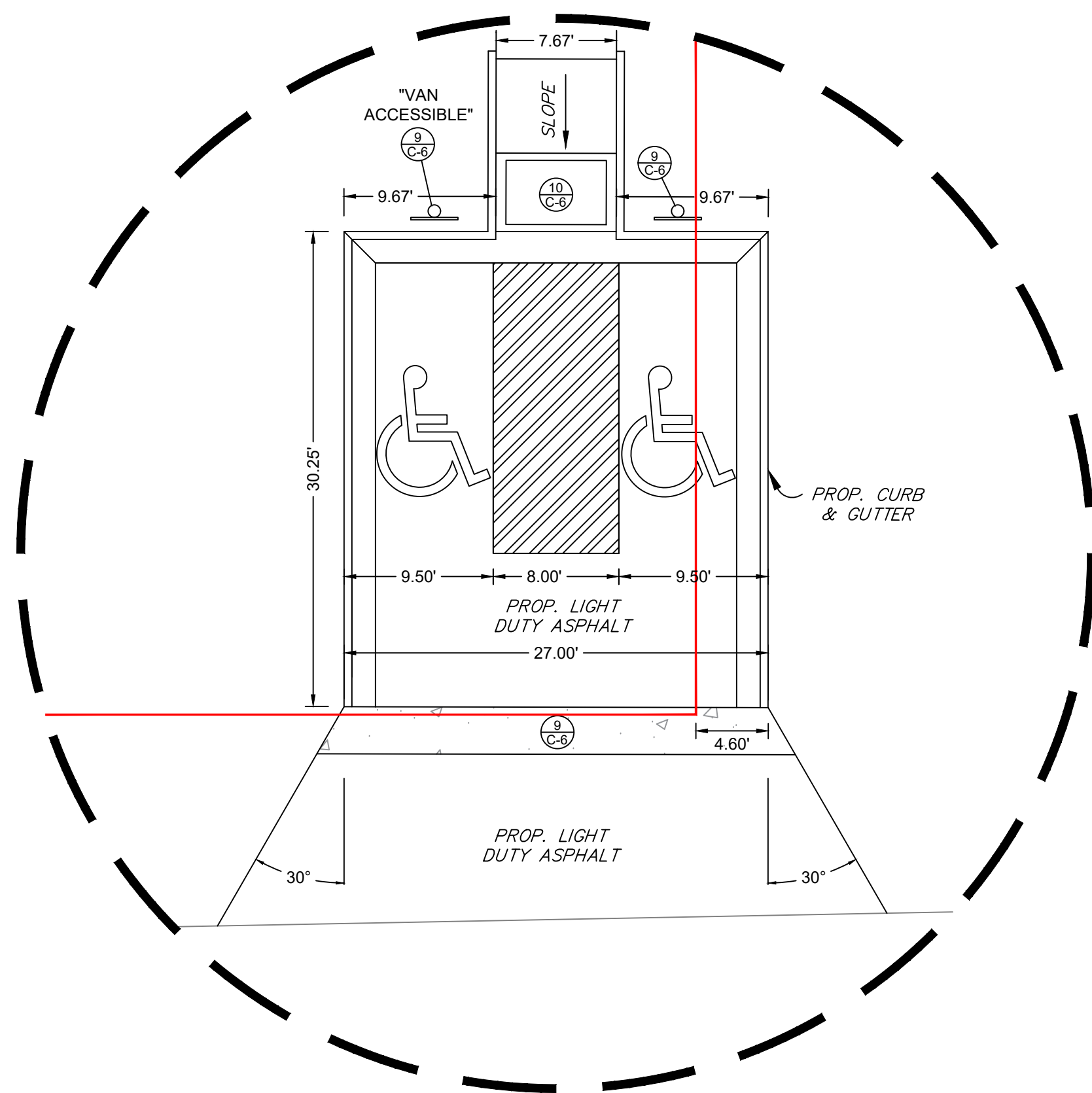
NO.	C-

NO.	OF	C-1
	SET NUMBER	
REVISED:		
DATE: 9/30/16	DRAWN BY: JRR	PROJECT NO.:
ROBERTO J. RUIZ ARCHITECT, INC.  615 W. TANDY ROAD BROWNSVILLE, TEXAS 77820 (956) 350-9195 OFFICE (956) 350-9196 FAX ARCHRUIZ@AOL.COM		
		
108.2021		
<div> <div>  </div> <div> PORT OF BROWNSVILLE <i>the port that works</i> </div> </div>		
<div> <div> PROJECT: PORT OF BROWNSVILLE ANCHOR PARK </div> <div> OWNER: BROWNSVILLE NAVIGATION DISTRICT PORT OF BROWNSVILLE BROWNSVILLE, TEXAS </div> </div>		
<div> <div> SHEET TITLE: EXISTING SITE </div> </div>		



NOTE:

CONTRACTOR SHALL VERIFY COLOR OF PARKING STRIPES AND INTERNATIONAL ACCESSIBILITY SYMBOLS WITH ARCHITECT IN THE SUBMITTAL PROCESS.



1 SITE PLAN
1/16"=1'-0"

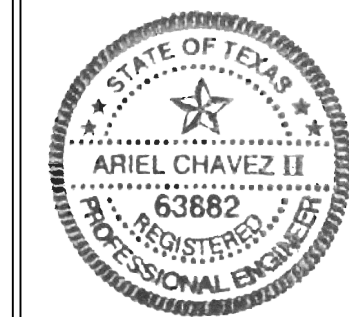
BROWNSVILLE NAVIGATION DISTRICT
ENGINEERING DEPARTMENT
BROWNSVILLE, TEXAS 78521
PHONE (956) 831-4592 1-800-378-5395
FAX (956) 831-6153
EMAIL achavez@portofbrownsville.com

SHEET TITLE:
HORIZONTAL CONTROL PLAN

PROJECT: PORT OF BROWNSVILLE
ANCHOR PARK
OWNER: BROWNSVILLE NAVIGATION DISTRICT
PORT OF BROWNSVILLE
BROWNSVILLE, TEXAS



1.08.2021



ROBERTO J. RUIZ
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PROJECT NO.:

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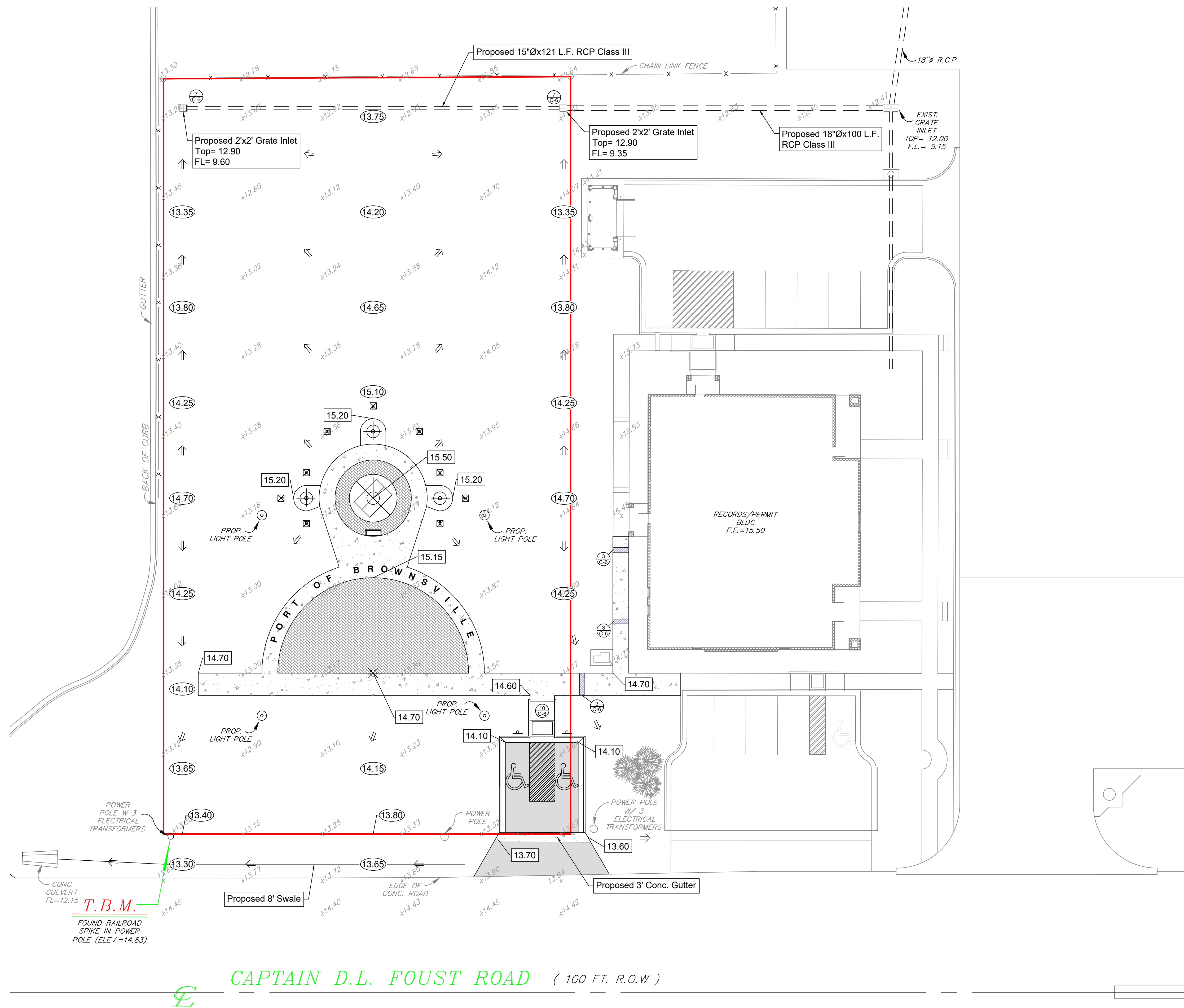
SET NUMBER

OF

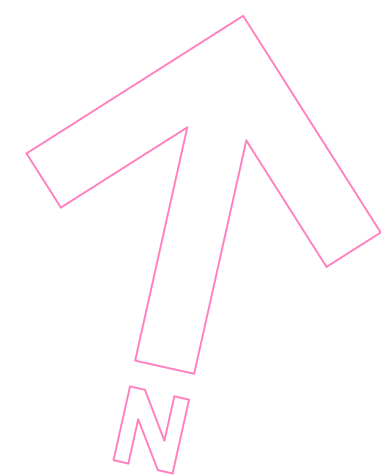
SHEET NO.

C-2

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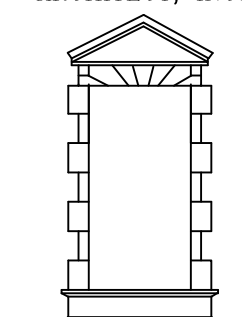



CAPTAIN D.L. FOUST ROAD (100 FT. R.O.W)

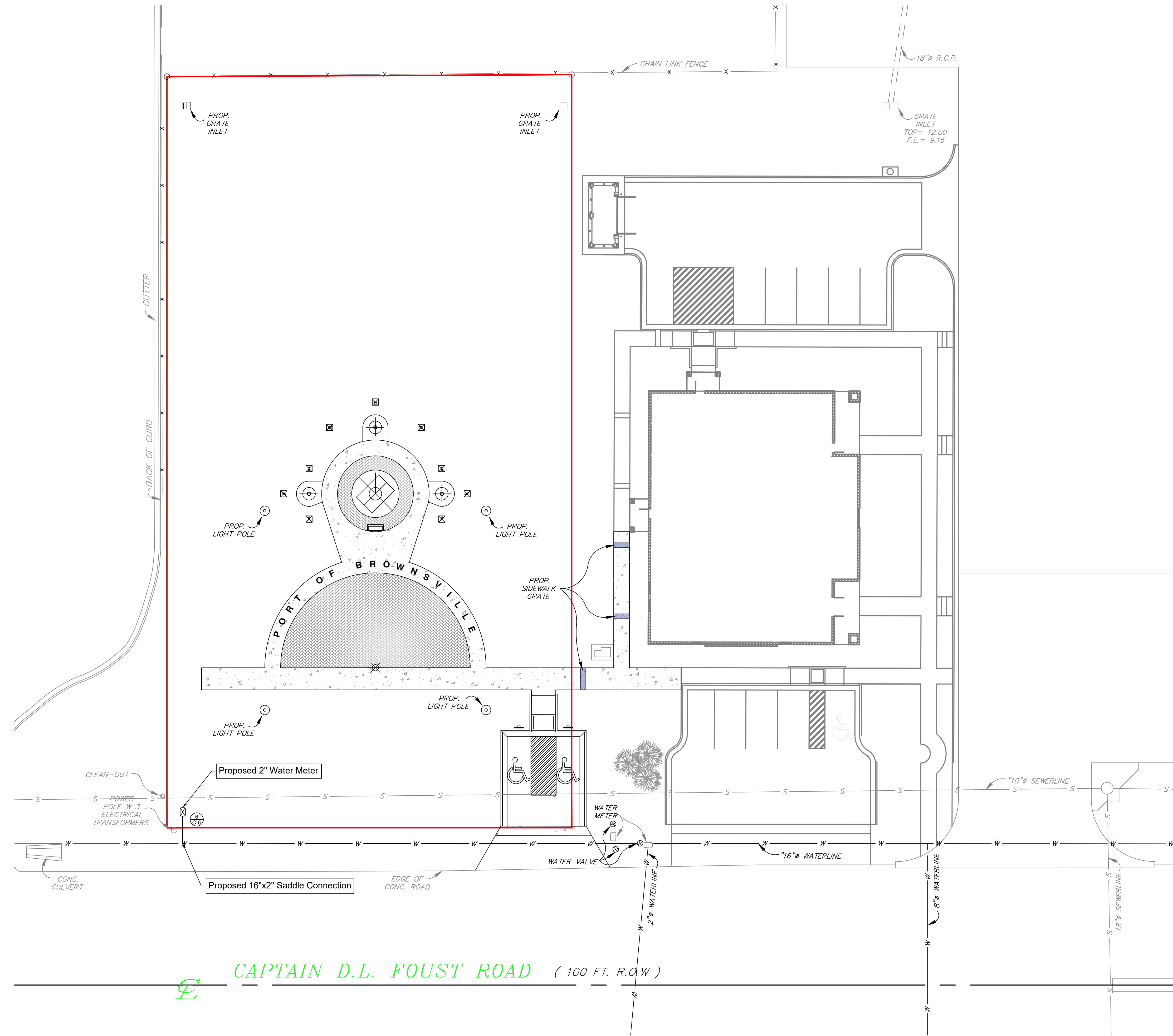


1 GRADING PLAN
1/16"=1'-0"

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SHEET NO.	C-3
	OF
SET NUMBER	
REVISED:	
DATE: 9/30/16	DRAWN BY: JRR PROJECT NO.:
ROBERTO J. RUIZ ARCHITECT, INC.  615 W. TANDY ROAD BROWNSVILLE, TEXAS 78520 (956) 350-9195 OFFICE (956) 350-9198 FAX ARCHRUIZ@AOL.COM	
 1/08/2021	
PROJECT: PORT OF BROWNSVILLE ANCHOR PARK OWNER: BROWNSVILLE NAVIGATION DISTRICT PORT OF BROWNSVILLE BROWNSVILLE, TEXAS	
SHEET TITLE: GRADING PLAN	

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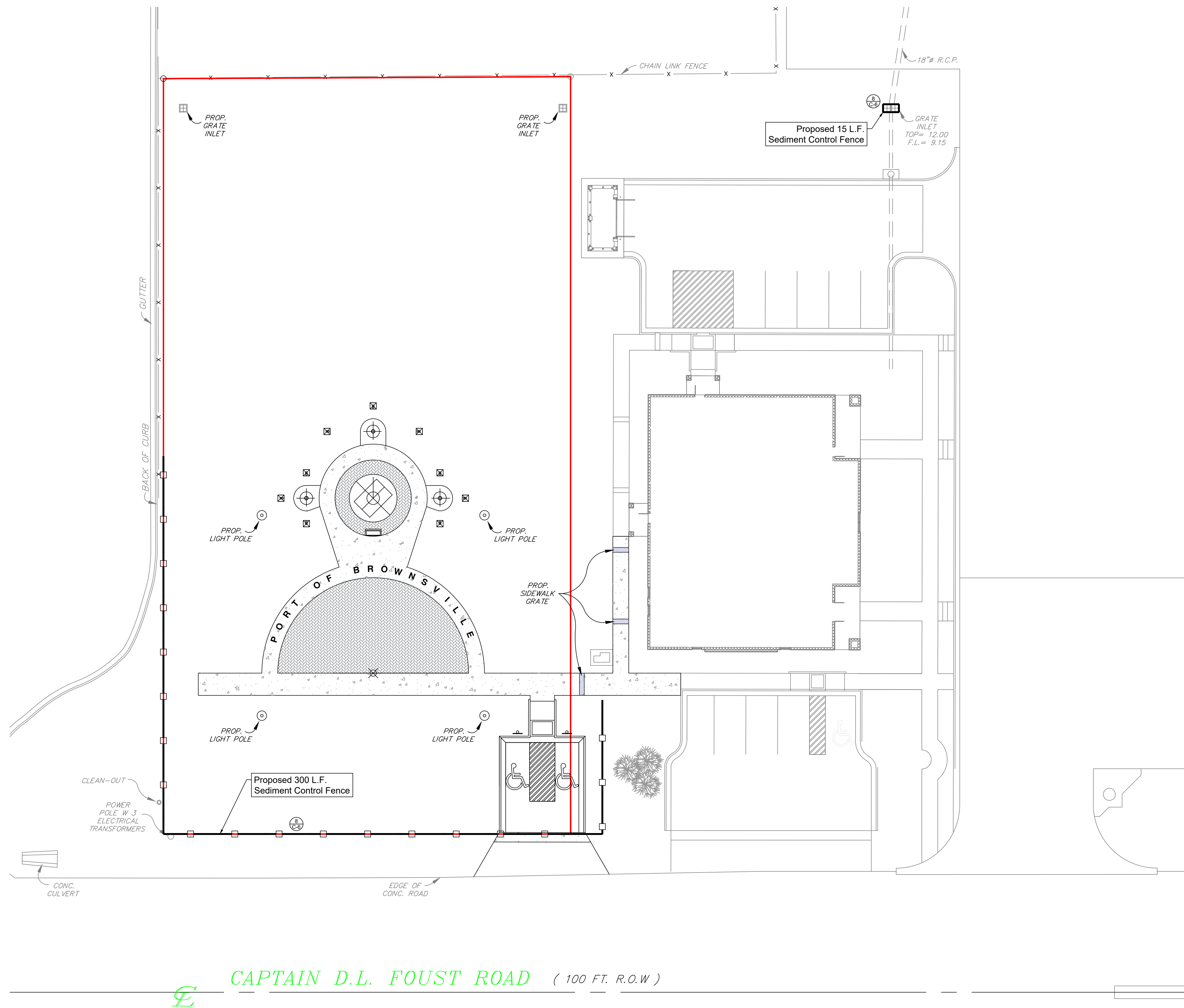


1 UTILITIES PLAN
1/16"=1'-0"

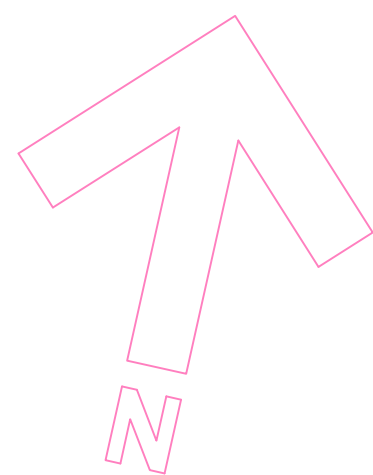
BROWNSVILLE NAVIGATION DISTRICT
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FAX (956) 831-6153
EMAIL achavez@portofbrownsville.com

SHEET NO.	C-4
SET NUMBER	
REVISED:	
DATE: 9/30/16	DRAWN BY: JRR PROJECT NO.:
<div>ROBERTO J. RUIZ ARCHITECT, INC.</div> <div>615 W. TANDY ROAD BROWNSVILLE, TEXAS 78520 (956) 350-9195 OFFICE (956) 350-9198 FAX ARCHIRUIZ@AOL.COM</div>	
<div>STATE OF TEXAS AERIAL CHAVEZ II 63882 REGISTERED PROFESSIONAL ENGINEER</div> <div>1.08.2021</div>	
<div>PORT OF BROWNSVILLE the port that works</div>	
PROJECT: PORT OF BROWNSVILLE ANCHOR PARK OWNER: BROWNSVILLE NAVIGATION DISTRICT PORT OF BROWNSVILLE BROWNSVILLE, TEXAS	
SHEET TITLE: UTILITIES	

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- CONTRACTOR'S RESPONSIBILITY FOR PREPARATION AND IMPLEMENTATION OF STORMWATER POLLUTION PREVENTION PLAN**
- IT IS THE INTENT OF THE INFORMATION PROVIDED WITHIN THESE SPECIFICATIONS TO BE USED BY THE CONTRACTOR AS THE GENERAL GUIDELINES OF THE STORM WATER POLLUTION PREVENTION PLAN FOR THIS PROJECT TO ESTABLISH A MINIMUM BASIS OF COMPLIANCE WITH THE FEDERAL REGULATIONS.
 - THE CONTRACTOR'S STORM WATER POLLUTION PREVENTION PLAN SHOULD ADDRESS THREE GOALS:
 - DIVERSION OF UPSLOPE WATER AROUND DISTURBED AREAS OF THE SITE;
 - LIMITS THE EXPOSURE OF DISTURBED AREAS TO THE SHORTEST DURATION POSSIBLE; AND
 - REMOVAL OF SEDIMENT FROM STORM WATER BEFORE IT LEAVES THE SITE.
 - IF AREA OF THE PROJECT REQUIRES, THE CONTRACTOR SHALL PREPARE AND FILE TO THE TEXAS COMMISSION ON ENVIRONMENTAL QUALITY STORM WATER & GENERAL PERMITS TEAM (TCEQ) NOTICE OF INTENT (NOI) FORMS BEFORE (SEVEN DAYS IF BY MAIL-24 HOURS IF ON LINE) BEGINNING ANY CONSTRUCTION.
 - THE CONTRACTOR SHALL MAKE THE STORM WATER POLLUTION PREVENTION PLAN AVAILABLE, UPON REQUEST, TO TCEQ.
 - THE CONTRACTOR MUST AMEND PLANS WHENEVER THERE IS A CHANGE IN DESIGN, CONSTRUCTION, OPERATION, OR MAINTENANCE OF THE PLAN, OR WHEN THE EXISTING PLAN PROVE INEFFECTIVE. MODIFICATIONS INCLUDING DESIGN AND ALL ADDITIONAL MATERIALS AND WORK, SHALL BE ACCOMPLISHED BY THE CONTRACTOR AT NO ADDITIONAL EXPENSE TO THE OWNER.
 - STABILIZATION MEASURES ARE TO BE INSPECTED AT A MINIMUM OF ONCE EVERY 14 DAYS AND WITHIN 24 HOURS AFTER ANY STORM EVENT GREATER THAN 0.5 INCHES. REPAIRS AND INADEQUACIES REVEALED BY THE INSPECTION MUST BE REMEDIED WITHIN 7 CALENDAR DAYS.
 - ALL INSPECTION REPORTS SUMMARIZING INSPECTION ACTIVITIES, REMEDIAL ACTION TAKEN, AND ACTUAL IMPLEMENTATION OF THE STORM WATER POLLUTION PREVENTION PLAN SHALL BE RETAINED AND MADE PART OF THE PLAN.
 - ALL CONTRACTORS AND SUBCONTRACTORS IDENTIFIED IN THE PLAN MUST CERTIFY AS TO AN UNDERSTANDING OF THE TPDES GENERAL PERMIT BEFORE CONDUCTING ANY ACTIVITY IDENTIFIED IN THE STORM WATER POLLUTION PREVENTION PLAN.
 - THE CONTRACTOR SHALL ADOPT APPROPRIATE CONSTRUCTION SITE MANAGEMENT PRACTICES TO PREVENT THE DISCHARGE OF OILS, GREASE, PAINTS, GASOLINE, AND OTHER POLLUTANTS TO STORM WATER. APPROPRIATE PRACTICES CAN INCLUDE:
 - DESIGNATED AREAS FOR EQUIPMENT MAINTENANCE AND REPAIR;
 - REGULAR COLLECTION OF WASTE;
 - CONVENIENTLY LOCATED WATER RECEPTACLES; AND
 - DESIGNATING AND CONTROLLING EQUIPMENT WASH-DOWN.
 - THE CONTRACTOR SHALL AMEND OR MODIFY THIS PLAN AS REQUIRED BY CONSTRUCTION MEANS, METHODS AND SEQUENCE. MODIFICATIONS SHALL NOT COMPROMISE THE INTENT OF THE REQUIREMENTS OF THE LAW OR THE PLANS. MODIFICATIONS SHALL NOT BE BASIS FOR ADDITIONAL COST TO THE OWNER.
 - THE CONTRACTOR SHALL CONSTRUCT A STABILIZED CONSTRUCTION ENTRANCE AT ALL TRAFFIC ENTRANCE/EXIT POINTS PRIOR TO EXITING ONTO AND PAVED ROADWAYS. (SEE DETAIL 1.)
 - THE CONTRACTOR SHALL PROTECT ALL POTENTIAL POINTS OF DISCHARGE OF RUNOFF (INLETS, GUTTERS, SWALES AND UNVEGETATED RESACA BANK AREAS) WITH SILT FENCING HAY BALES, GRAVEL FILLED BAGS AS SHOWN ON DETAILS 2, 3, AND 4 OR EQUIVALENT MEANS APPROVED BY ENGINEER.



1 SW3P
1/16"=1'-0"

BROWNSVILLE NAVIGATION DISTRICT
ENGINEERING DEPARTMENT
BROWNSVILLE, TEXAS 78521
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EMAIL achavez@portofbrownsville.com

SHEET TITLE:
STORM WATER POLLUTION PREVENTION PLAN

PROJECT: PORT OF BROWNSVILLE
ANCHOR PARK
OWNER: BROWNSVILLE NAVIGATION DISTRICT
PORT OF BROWNSVILLE
BROWNSVILLE, TEXAS



1.08.2021



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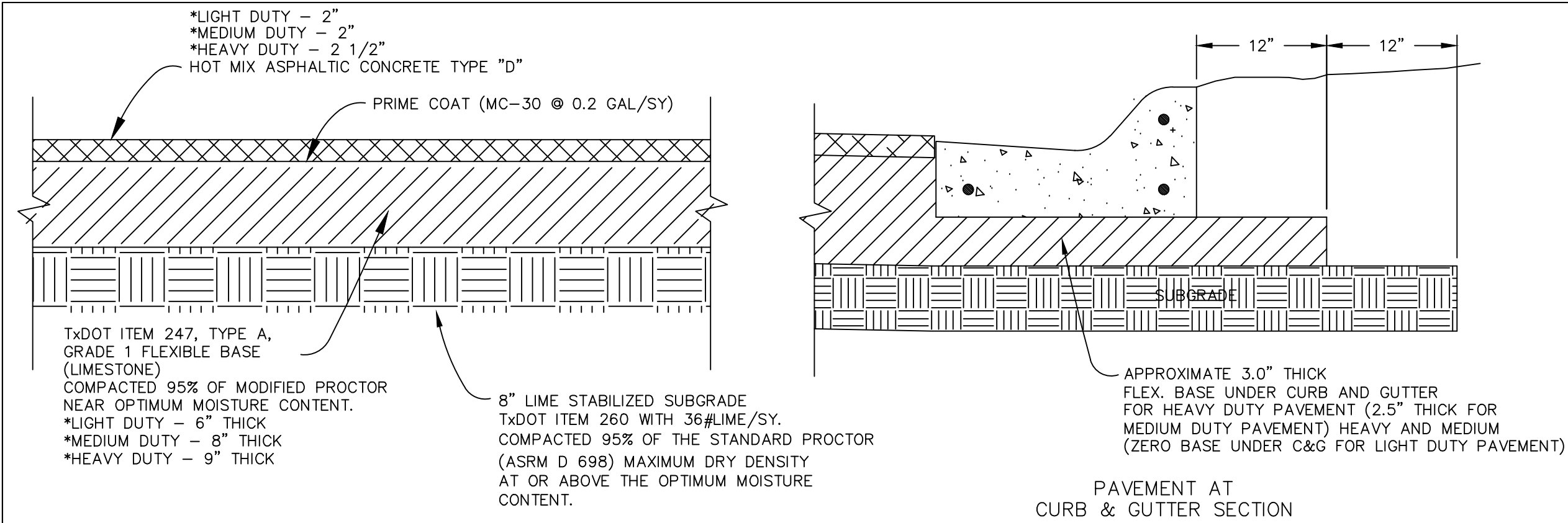
DATE: 9/30/16
DRAWN BY: JRR
PROJECT NO.:

REVISED:

SET NUMBER

SHEET NO. C-5

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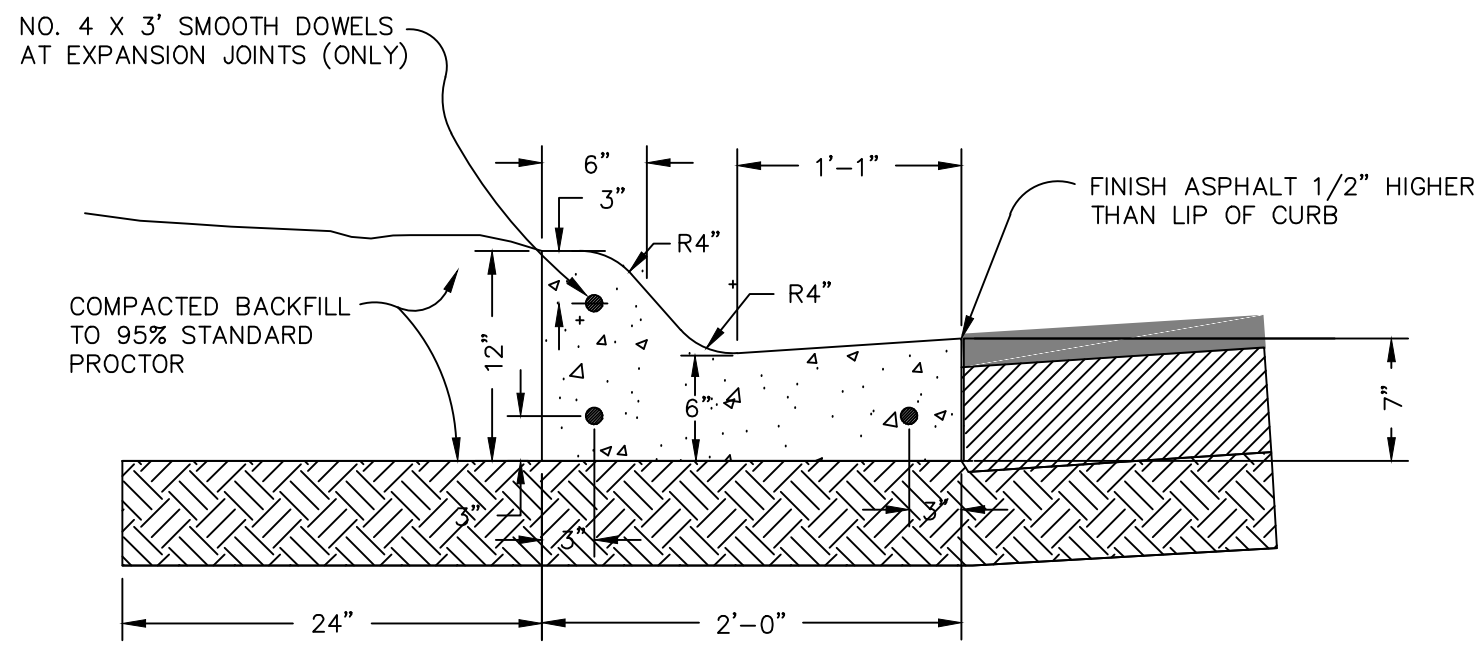


1 ASPHALT PAVEMENT

HOT MIX ASPHALTIC CONCRETE TYPE "D" MEETING THE REQUIREMENTS OF 1995 TXDOT SPECIFICATION ITEM 340 AND SPECIFIC CRITERIA FOR JOB MIXING.
HYEEM STABILITY SHALL BE AT LEAST 40.
COMPACTION STABILITY SHALL BE BETWEEN 91 AND 95 PERCENT OF MAXIMUM THEORETICAL DENSITY.

ASPHALTIC CEMENT CONTENT SHALL BE WITHIN TOLERANCE OF ± 3 PERCENT OF SPECIFIC MIX DESIGN.
75 TO 85 PERCENT OF THE Voids OF THE MINERAL AGGREGATE SHALL BE FILLED WITH APHALTIC CEMENT.

COARSE AGGREGATE SHALL BE 100% LIMESTONE.



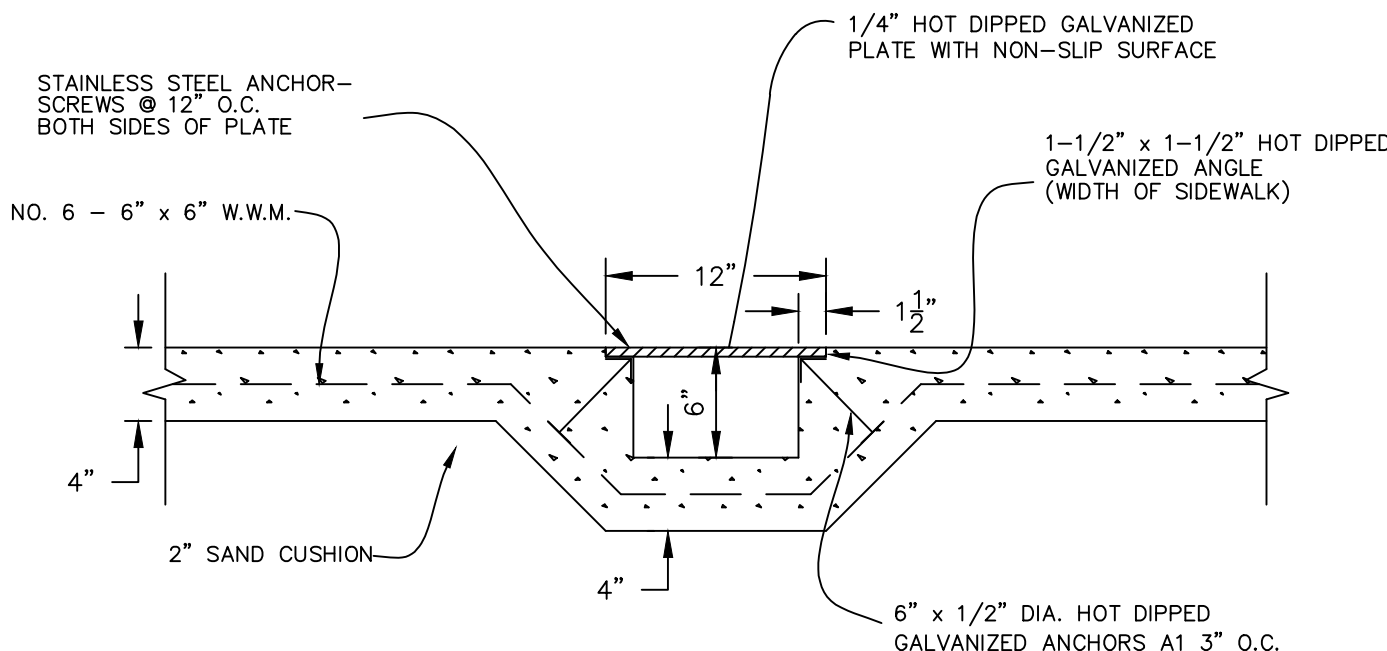
2 CURB & CUTTER DETAIL

N.T.S.

NOTE:

Dummy joints AT CURB shall be 2" deep and placed at 10 ft. intervals.

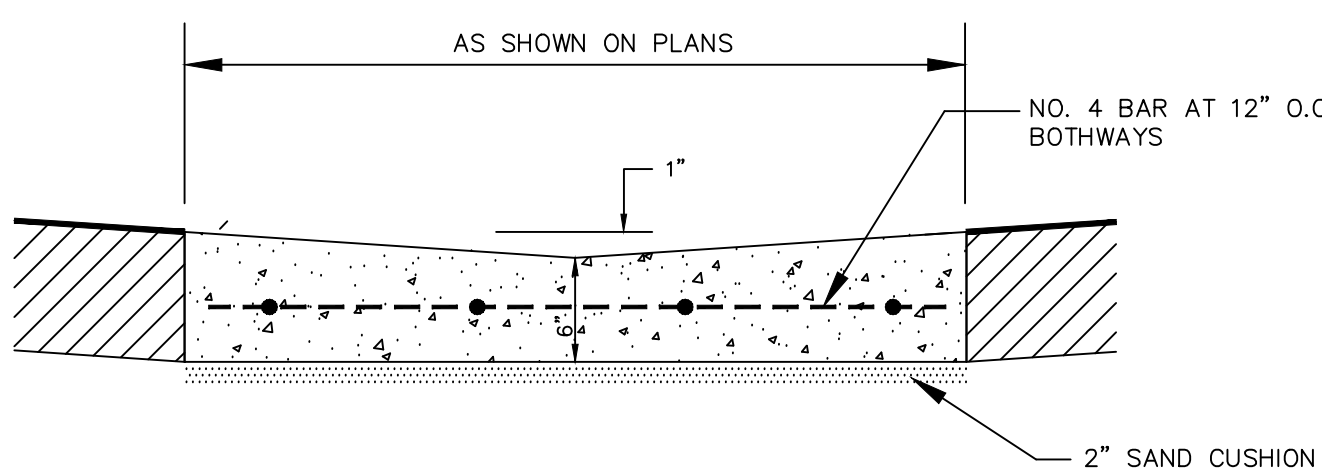
Concrete shall be 3000 psi conforming to the requirement of "Reinforced Concrete Structures", when not shown on the drawings, and shall also contain 1.5 lbs. of fibermess per cubic yard.
All exposed concrete surfaces, (sidewalks, concrete pavement, curb & gutter, etc.) shall be treated with curing compound, resin base ASTM C 309, Type 2 with pigmented tint of fugitive dye.



3 SIDEWALK UNDERDRAIN

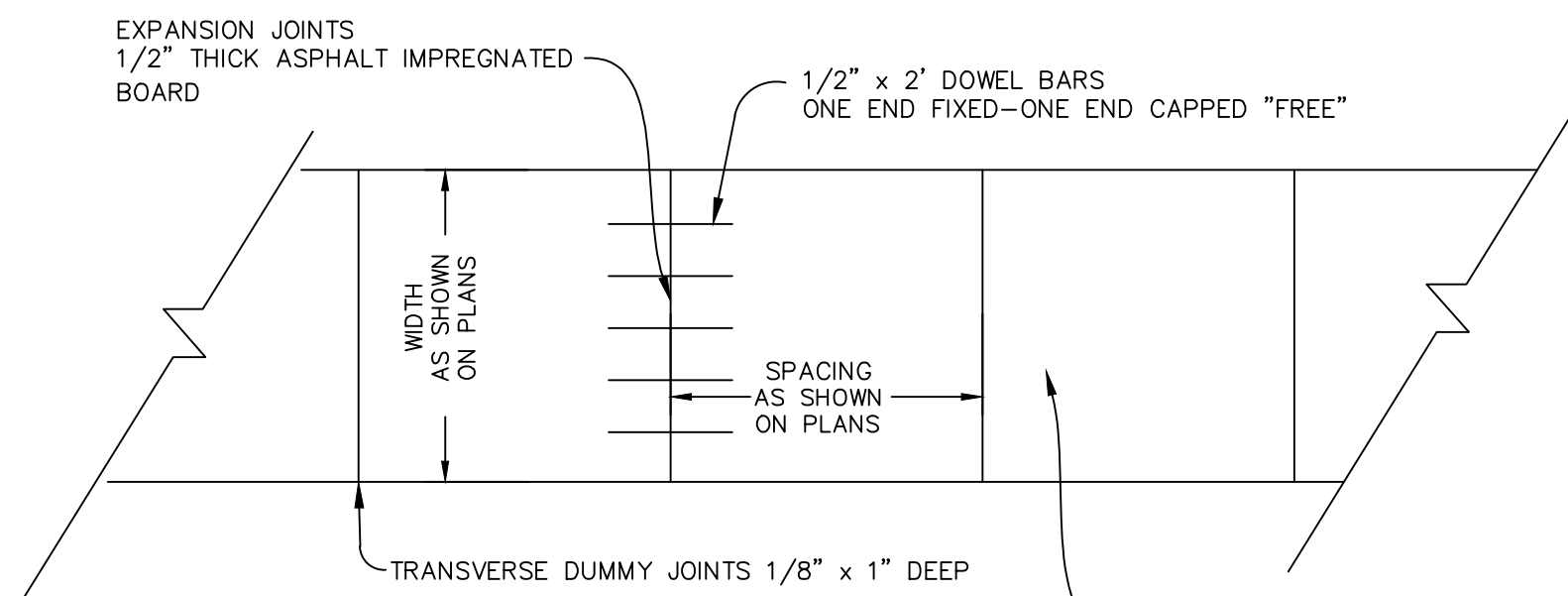
N.T.S.

CONCRETE WITH DESIGN COMPRESSIVE STRENGTH OF 3500 PSI AT 28 DAYS.
SLUMP AT POINT OF PLACEMENT 4 TO 6 INCHES
AIR CONTENT AT POINT OF PLACEMENT 2 TO 4 PERCENT
ALL EXPOSED CONCRETE SURFACES, (SIDEWALKS, CONCRETE PAVEMENT, CURB & GUTTER, ETC.) SHALL BE TREATED WITH CURING COMPOUND, RESIN BASE ASTM C 309, TYPE 2 WITH PIGMENTED TINT OF FUGITIVE DYE.



4 CONCRETE VALLEY GUTTER

N.T.S.

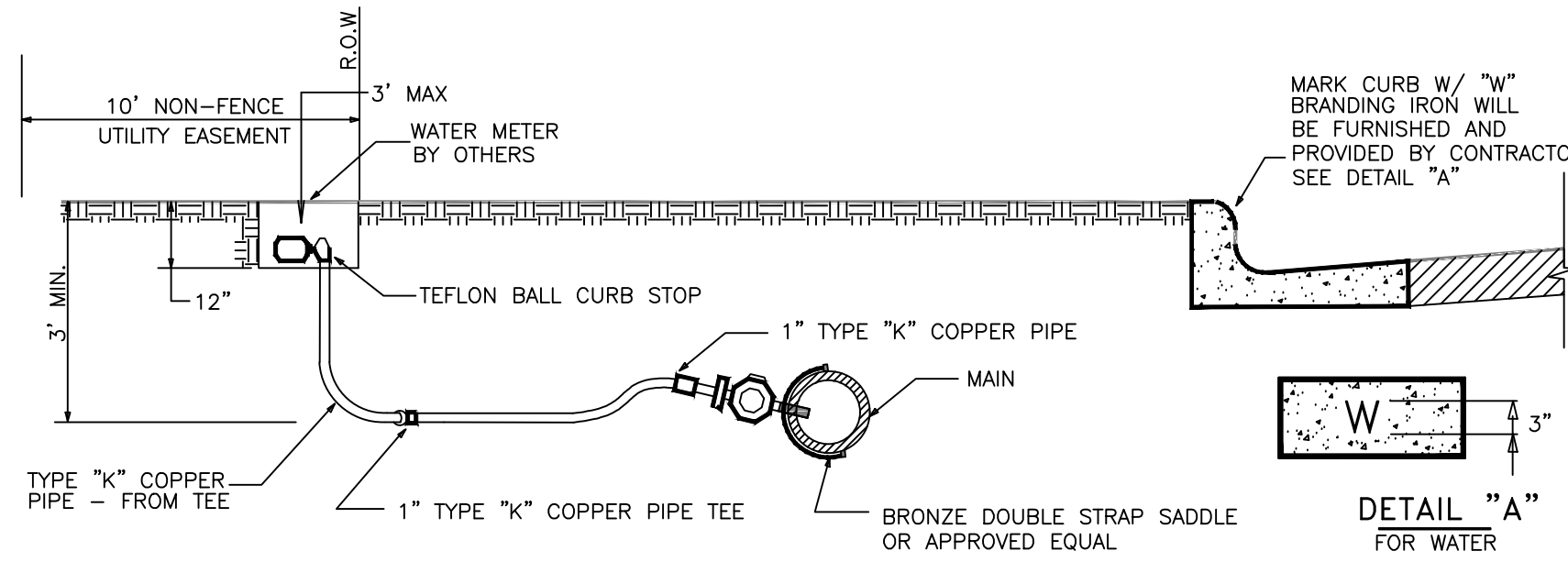


5 SIDEWALK DETAIL

(N.T.S.)

NOTE:

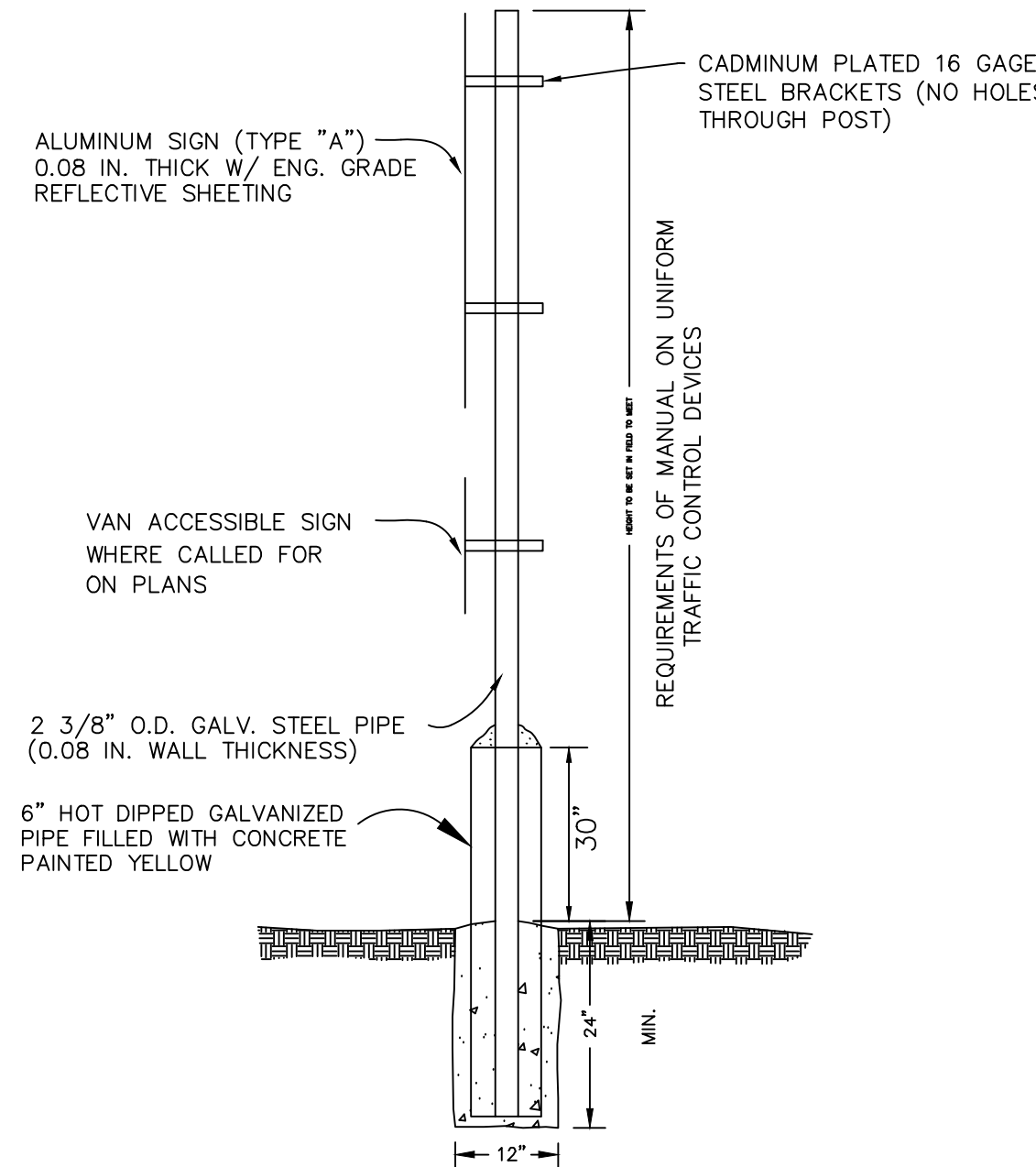
CONCRETE JOINT SPACING IS SHOWN IN THE ARCHITECTURAL DRAWINGS.



6 WATER LINE SERVICE

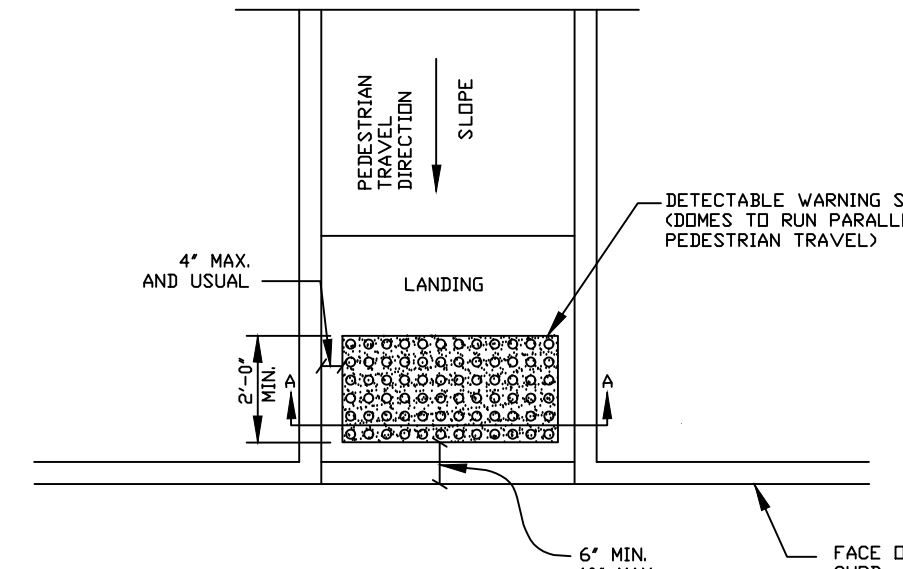
N.T.S.

NOTE:
1. USE 3/4" TYPE "K" COPPER PIPE FOR SINGLE SERVICE CONNECTION



9 SIGN FOR RESERVED PARKING

(N.T.S.)



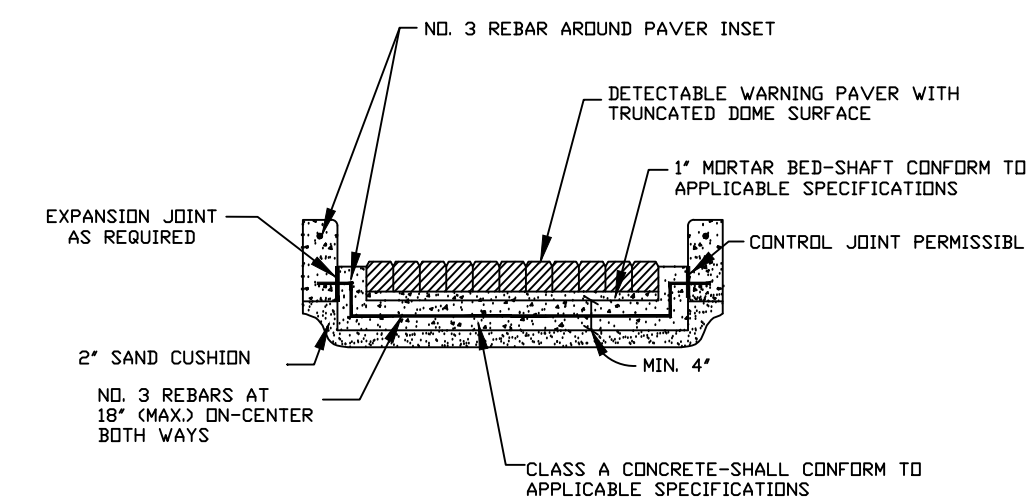
TYPICAL PLACEMENT OF DETECTABLE WARNING SURFACE ON SLOPING RAMP RUN.

10 PEDESTRIAN RAMP DETAIL

N.T.S.

GENERAL NOTES FOR DETECTABLE WARNINGS

- CURB RAMPS MUST CONTAIN A DELACTABLE WARNING SURFACE THAT CONSISTS OF RAISED TRUNCATED DOMES COMPLYING WITH SECTION 4.29 OF THE TEXAS ACCESSIBILITY STANDARDS (TAS). THE SURFACE MUST CONTRAST VISUALLY WITH ADJOINING SURFACES, INCLUDING SIDE FLARES. FURNISH DARK BROWN OR DARK RED DETECTABLE WARNING SURFACE ADJACENT TO UNCOLORED CONCRETE, UNLESS SPECIFIED ELSEWHERE IN THE PLANS.
- DETECTABLE WARNING SURFACES MUST BE SLIP RESISTANT AND NOT ALLOW WATER TO ACCUMULATE.
- ALIGN TRUNCATED DOMES IN THE DIRECTION OF PEDESTRIAN TRAVEL WHEN ENTERING THE STREET.
- SHADE AREAS ON SHEET 11 OF 14 INDICATE THE APPROXIMATE LOCATION FOR THE DETECTABLE WARNING SURFACE FOR EACH CURB RAMP TYPE.
- DETECTABLE WARNING SURFACES SHALL BE A MINIMUM OF 24" IN DEPTH IN THE DIRECTION OF PEDESTRIAN TRAVEL, AND EXTEND THE FULL WIDTH OF THE CURB RAMP OR LANDING EHERE THE PEDESTRIAN ACCESS ROUTE ENTERS THE STREET.
- DETECTABLE WARNING SURFACES SHALL BE LOCATED SO THAT THE EDGE NEAREST THE CURB LINE IS A MINIMUM OF 6" AND A MAXIMUM OF 10" FROM THE EXTENSION OF THE FACE OF CURB. DETECTABLE WARNING SURFACES MAY BE CURVED ALONG THE CORNER RADIUS.
- TXDOT MAINTAINS A LIST OF QUALIFIED DETECTABLE WARNING MATERIALS. DETAILS ARE PROVIDED HEREIN FOR THE PLACEMENT OF LANDSCAPE POYERS. FOR OTHER MATERIALS, REFER TO THE MANUFACTURER'S PRODUCT MANUAL FOR PROPER INSTALLATION.



GENERAL NOTES FOR SECTION A-A

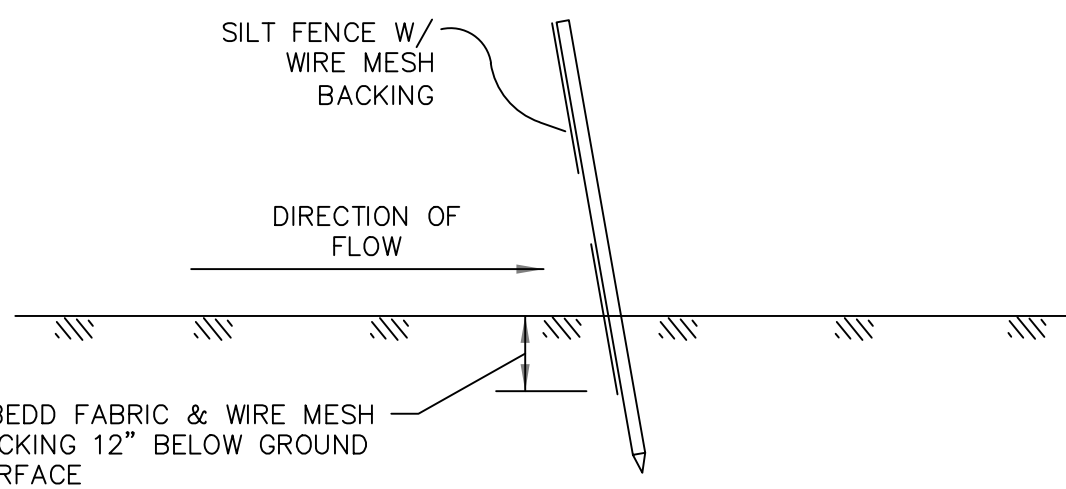
- CURB RAMPS MUST CONTAIN A DELACTABLE WARNING SURFACE THAT CONSISTS OF RAISED TRUNCATED DOMES COMPLYING WITH SECTION 4.29 OF THE TEXAS ACCESSIBILITY STANDARDS (TAS). THE SURFACE MUST CONTRAST VISUALLY WITH ADJOINING SURFACES, INCLUDING SIDE FLARES. FURNISH DARK BROWN OR DARK RED DETECTABLE WARNING SURFACE ADJACENT TO UNCOLORED CONCRETE, UNLESS SPECIFIED ELSEWHERE IN THE PLANS.



R7-8
12"x18"

NOTE: HORIZONTAL LOCATION SHALL BE FIELD ADJUSTED TO MEET REQUIREMENTS ON UNIFORM TRAFFIC CONTROL DEVICES.

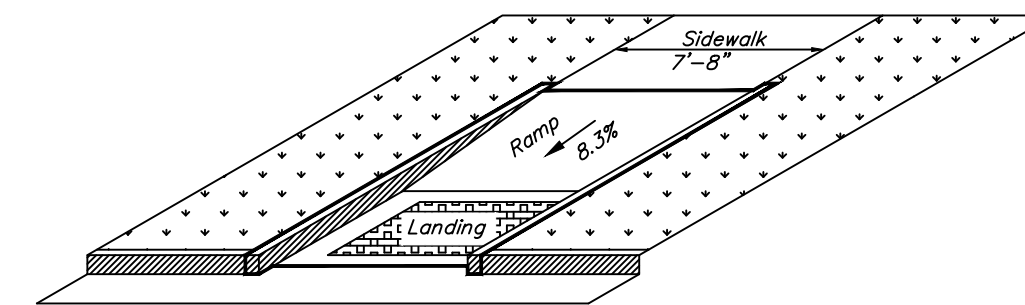
* NOTE: THE TOTAL AREA OF THIS PROJECT IS APPROXIMATELY 070 ACRES (LESS THAN 5 ACRES). THEREFORE, THE FILING OF NOTICE OF INTENT (NOI) AND NOTICE OF TERMINATION (NOT) IS NOT REQUIRED. ALL OTHER REQUIREMENTS SHALL APPLY.



8 SILT FENCE INSTALLATION

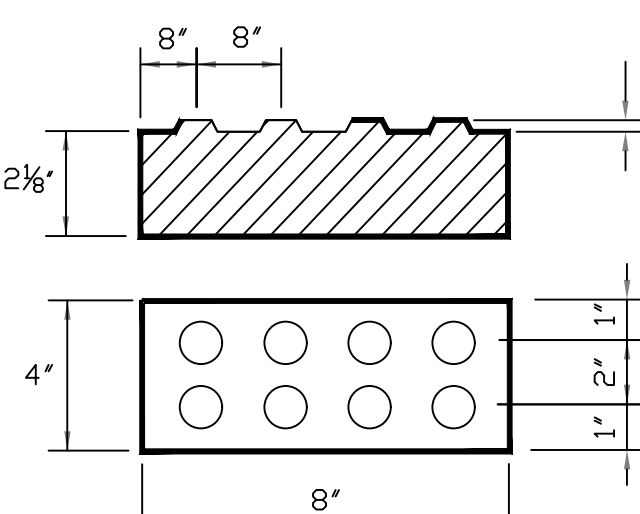
N.T.S.

TO BE INSTALLED WHEREVER THERE IS POTENTIAL FOR RUNOFF TO LEAVE SITE OR ENTER DRAINAGE SYSTEM.

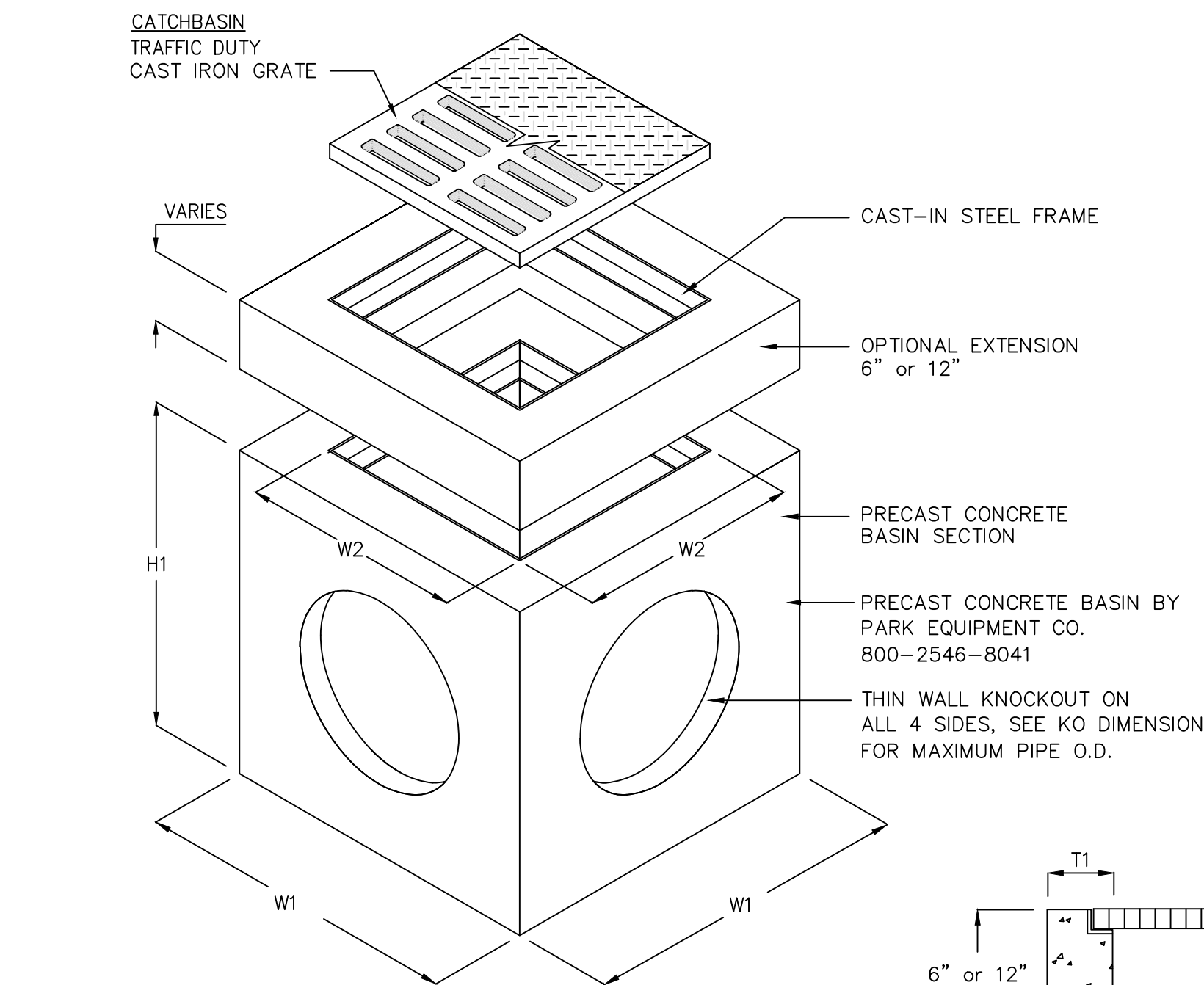


PEDESTRIAN FACILITIES GENERAL NOTES

- ALL SLOPES ARE MAXIMUM ALLOWABLE. THE LEAST POSSIBLE SLOPE THAT WILL SLILT DRAIN PROPERTY SHOULD BE USED, ADJUST CURB RAMP LENGTH OR GRADE OF APPROACH SIDEWALKS AS DIRECTED.
- THE MINIMUM SIDEWALK WIDTH IS 5'. WHERE THE SIDEWALK IS ADJACENT TO THE BACK OF CURB, A 6' SIDEWALK WIDTH IS ENCOURAGED. WHERE A 5' SIDEWALK CAN NOT BE PROVIDED DUE TO SITE CONSTRAINTS, A MINIMUM 3' SIDEWALK WITH 5' x 5' PASSING AREAS AT INTERVALS NOT TO EXCEED 200' IS REQUIRED.
- LANDINGS SHALL BE 5' x 5' MINIMUM WITH A MAXIMUM 2% SLOPE IN ANY DIRECTION.
- MANEUVERING SPACE AT THE BOTTOM OF CURB RAMPS SHALL BE A MINIMUM OF 4' x 4' WHOLLY CONTAINED WITHIN THE CROSSWALK AND WHOLLY OUTSIDE THE PARALLEL VEHICULAR TRAVEL PATH.
- MAXIMUM ALLOWABLE CROSS SLOPE ON SIDEWALK AND CURB RAMP SURFACES IS 2%.
- CURB RAMPS WITH RETURNED CURBS MAY BE USED ONLY WHERE PEDESTRIANS WOULD NOT NORMALLY WALK ACROSS THE RAMP, EITHER BECAUSE THE ADJACENT SURFACE IS PIANTING OR OTHER NON-WALKING SURFACE OR BECAUSE THE SIDE APPROACH IS SUBSTANTIALLY ABSTRACTED. OTHERWISE, PROVIDED FLARED SIDES.
- ADDITIONAL INFORMATION ON CURB RAMP LOCATION, DESIGN, LIGHT REFLECTIVE VALUE AND TEXTURE MAY BE FOUND IN THE CURRENT EDITION OF THE TEXAS ACCESSIBILITY STANDARDS (TAS) AND 16 TAC 68102.
- TO SERVE AS A PEDESTRIAN REFUGE AREA, THE MEDIAN SHOULD BE A MINIMUM OF 5' WIDE. MEDIANS SHOULD BE DESIGNED TO PROVIDE ACCESSIBLE PASSAGE OVER OR THROUGH THEM.
- SMALL CHANNELIZATION ISLANDS, WHICH DO NOT PROVIDE A MINIMUM 5' x 5' LANDING AT THE TOP OF CURB RAMPS, SHALL BE CUT THROUGH LEVEL WITH THE SURFACE OF THE STREET.
- CROSSWALK DIMENSIONS, CROSSWALK MARKINGS AND STOP BAR LOCATIONS SHALL BE AS SHOWN ELSEWHERE IN THE PLANS. AT INTERSECTIONS WHERE CROSSWALK MARKINGS ARE NOT REQUIRED, CURB RAMPS SHALL BE ALIGNED WITH THEORETICAL CROSSWALKS, OR AS DIRECTED BY THE ENGINEER.
- EXISTING FEATURES THAT COMPLY WITH TAS MAY REMAIN IN PLACE UNLESS OTHERWISE SHOWN ON THE PLANS.
- HANDRAILS ARE NOT REQUIRED ON CURB RAMPS. PROVIDE CURB RAMPS WHEREVER ON ACCESSIBLE ROUTE CROSSES (PENETRATES) A CURB.
- CURB RAMPS AND LANDINGS SHALL BE CONSTRUCTED AND PAID FOR IN ACCORDANCE WITH ITEM 531 'SIDEWALKS'.
- SEPERATE CURB RAMP AND LANDINGS FROM ADJACENT SIDEWALK AND ANY OTHER ELEMENTS WITH PREMLD OR BOARD JOINT OF 3/4" UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
- PROVIDE A SMOOTH TRANSITION WHERE THE CURB RAMPS CONNECT TO THE STREET.
- CURBS SHOWN ON SHEET 1 WITHIN THE LIMITS OF PAYMENT ARE CONSIDERED PART OF THE CURB RAMP FOR PAYMENT, WHETHER IT IS CONCRETE CURB, GUTTER, OR COMBINED CURB AND GUTTER.
- FLARE SLOPE SHALL NOT EXCEED 10% MEASURED ALONG CURB LINE.



Detectable Warning Paver



MODEL #	JUNCTION BOX ²	DIMENSIONS							GRATE SIZE	WEIGHT LBS
CATCH BASIN		W1	W2	H1	H2	T1	KO			
CB12 ¹	JB12	15"	10"	21"	18"	2"	10"	12"x12"x1"		180
CB18	JB18	24"	16"	34"	30"	4"	15"	18"x18"x1"		1,000
CB20	JB20	26"	18"	34"	30"	4"	17"	20"x20"x1"		1,335
CB24	JB24	32"	22"	41"	36"	5"	22"	24"x24"x2"		2,245
CB27	JB27	37"	25"	42"	36"	6"	24"	27"x27"x2"		2,875
CB30	JB30	42"	30"	42"	36"	6"	30"	32"x32"x2"		3,675
CB36	JB36	48"	36"	42"	36"	6"	32"	36"x36"x2"		4,585

- CB12 CATCHBASIN IS RATED FOR PEDESTRIAN LOADING. ALL OTHERS ARE TRAFFIC DUTY.
- ALL JUNCTION BOXES ARE STANDARD PEDESTRIAN DUTY OR OPTIONAL TRAFFIC DUTY.

SPECIFICATIONS

CONCRETE : Class 1 concrete with of design strength of 4500 PSI at 28 days. Unit is of monolithic construction at floor and first slope of wall with sectional riser to required depth.

REINFORCEMENT: Grade 60 reinforced. Steel rebar conforming to ASTM A615 on required centers or equal.

C.I. CASTINGS: Cast iron frames and grates are manufactured of grey cast iron conforming to ASTM A48-76 Class 30.

THE 4'x4' GRATE INLETS AT COORDINATES N 893.73, E 47.00 AND N 898.73, E 400.42 ARE TO BE PARK MODEL CB-98 OR APPROVED EQUAL WITH TRAFFIC DUTY CAST IRON GRATE.



TEL (713) 937-7602
FAX (713) 937-4254
WATS (800) 256-8041

7 PRECAST CONCRETE CATCHBASIN "AREA DRAINS" (AD)

SHEET NO.

C-6

OF

SET NUMBER

REVISED:

DATE: 9/30/16

DRAWN BY: JRR

PROJECT NO.:

ROBERTO J. RUIZ ARCHITECT, INC.

615 W. TANDY ROAD

BROWNSVILLE, TEXAS 77820

(956) 350-9195 OFFICE

(956) 350-9198 FAX

ARCHRUIZ@AOL.COM

STATE OF TEXAS

ARIEL CHAVEZ II

63882

PROFESSIONAL ENGINEER

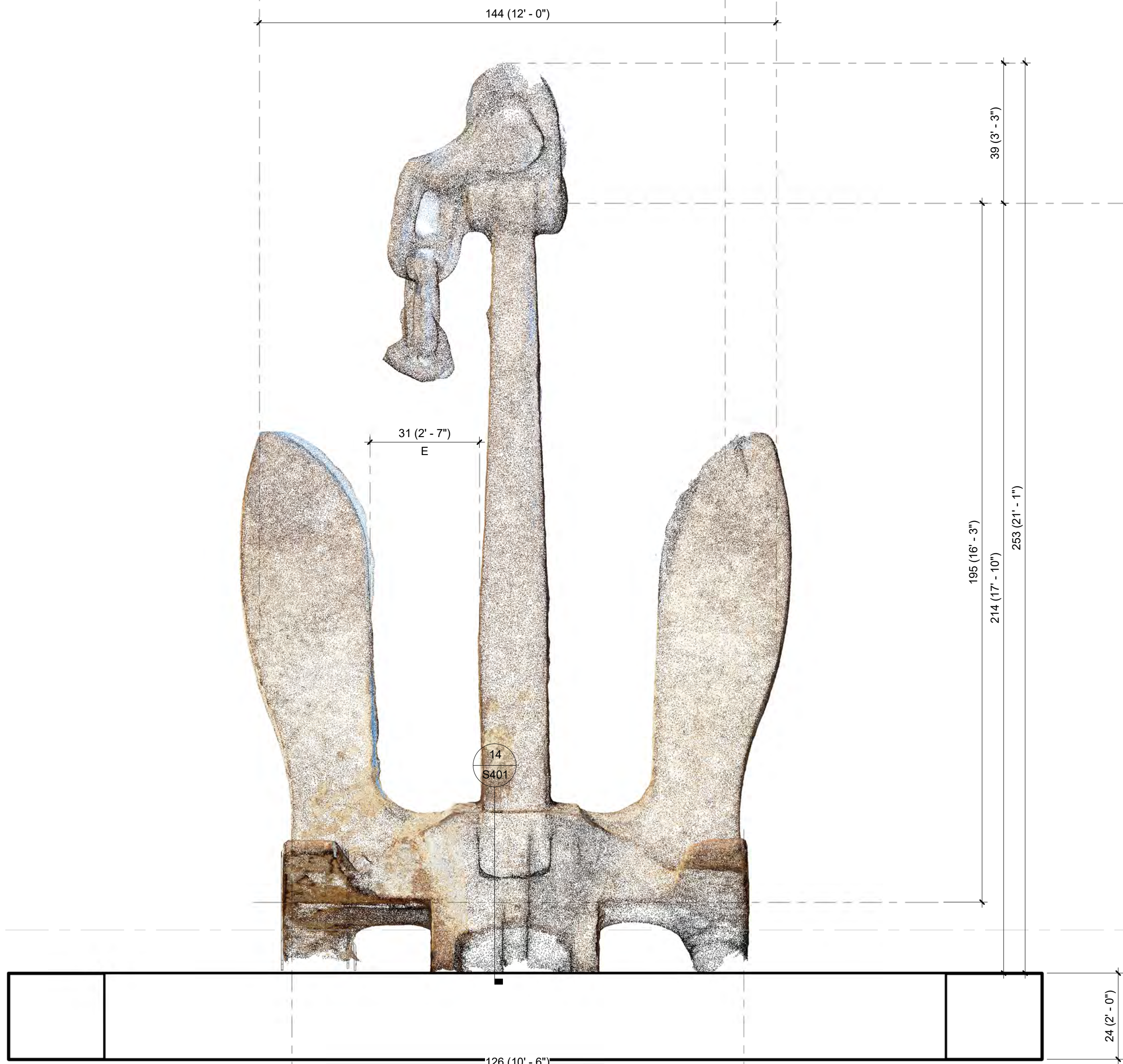
1/08/2021



PROJECT: PORT OF BROWNSVILLE ANCHOR PARK
OWNER: BROWNSVILLE NAVIGATION DISTRICT
PORT OF BROWNSVILLE
BROWNSVILLE, TEXAS

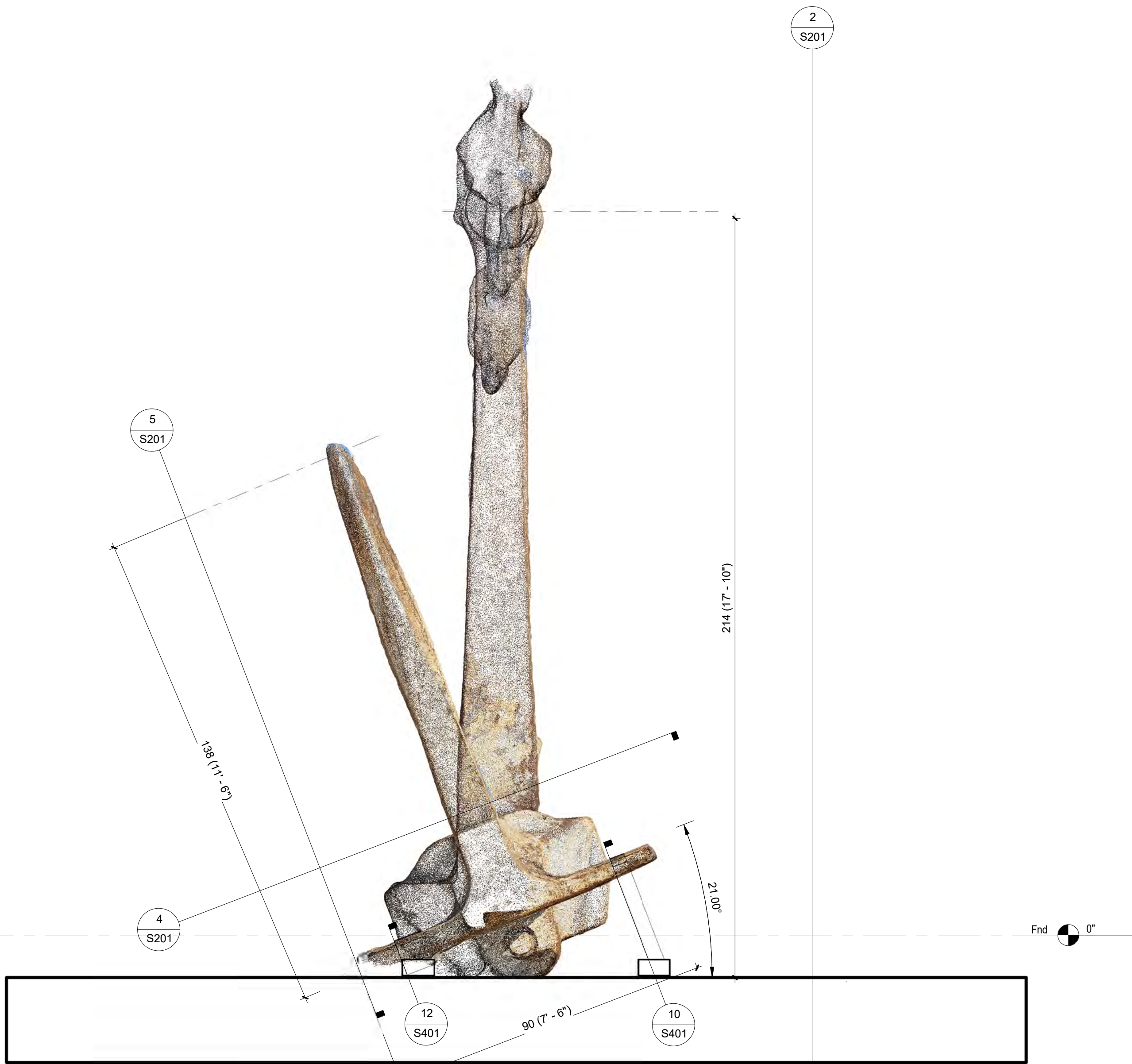
SHEET TITLE: DETAIL SHEET

3
S201



Elevation
1/2" = 1'-0"

2
S201 S201



Side View
1/2" = 1'-0"

3
S201 S201

FOUNDATION NOTES

- FOR GENERAL NOTES SEE SHEET S101 AND S102
- FOR TYPICAL DETAILS SEE SHEETS NUMBER S400'S
- CONTRACTOR/SUBCONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL DIMENSIONS WITH ARCHITECTURAL PLANS BEFORE COMMENCING ANY WORK. THE CONTRACTOR AND OR SUBCONTRACTOR SHALL REPORT ANY DISCREPANCIES TO THE ARCHITECT AND ENGINEER BEFORE THE WORK HAS BEGUN.
- REFER TO ARCHITECTURAL PLANS FOR ADDITIONAL DIMENSIONS.
- REFER TO ARCHITECTURAL PLANS FOR FLOOR DRAIN LOCATIONS.
- SLOPE SLAB TO DRAINS. SEE ARCHITECTURAL PLANS FOR SLOPE.
- REFER TO ARCHITECTURAL PLANS FOR FLOOR FINISHES. ENGINEER IS NOT RESPONSIBLE FOR TYPE OF FLOOR FINISHES.
- THE TESTING LABORATORY SHALL BE THE OWNERS REPRESENTATIVE TO CONTROL THE PLACEMENT OF COMPACTED FILL. THE TESTING LABORATORY SHALL APPROVE THE SUBGRADE PREPARATION, THE FILL MATERIALS, THE METHOD OF PLACEMENT AND COMPACTION, AND SHALL GIVE WRITTEN APPROVAL OF THE COMPLETED FILL. THE TESTING LABORATORY SHALL INDICATE ON THERE REPORT THE ELEVATION OF THE COMPACTED SUBGRADE.
- ALL EARTHWORK AND GRADING SHALL BE ACCOMPLISHED IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE GEOTECHNICAL ENGINEERING STUDY. THE MORE STRINGENT REQUIREMENTS BETWEEN THESE SUBGRADE NOTES AND GEOTECHNICAL ENGINEERING STUDY SHALL GOVERN AND EXECUTED BY THE CONTRACTOR.
- IN THE EVENT FOUNDATION EXCAVATIONS ARE CARRIED TO A DEPTH GREATER THAN REQUIRED, THE ADDITIONAL DEPTH SHALL BE FILLED WITH THE SAME CONCRETE AS THAT USED FOR FOOTING AT NO ADDITIONAL EXPENSE TO THE OWNER. NO UNCONTROLLED FILL WILL BE PERMITTED.
- THE FOOTING EXCAVATIONS SHALL BE KEPT FREE FROM LOOSE MATERIAL AND STANDING WATER.
- THE FOUNDATION EXCAVATIONS SHOULD BE OBSERVED BY THE TESTING LABORATORY PRIOR TO STEEL OR CONCRETE PLACEMENT TO ASSESS THAT THE FOUNDATION MATERIALS ARE CAPABLE OF SUPPORTING THE DESIGN LOADS AND ARE CONSISTENT WITH THE MATERIALS DISCUSSED IN THE STUDY. THIS IS ESPECIALLY IMPORTANT TO IDENTIFY THE ACCEPTABILITY OF THE SUBGRADE OR FILL MATERIAL UNDER THE FOOTING.
- SOFT OR LOOSE SOIL ZONES ENCOUNTERED AT THE BOTTOM OF THE FOOTING OR BEAM EXCAVATIONS SHOULD BE EXCAVATIONS SHOULD BE REMOVED TO THE LEVEL OF COMPETENT SOIL AS DIRECTED BY THE TESTING LABORATORY. CAVITIES FORMED AS A RESULT OF EXCAVATION OF SOFT OR LOOSE SOIL ZONES SHOULD BE BACKFILLED WITH LEAN CONCRETE OR SELECT FILL AS DETERMINED BY THE TESTING LABORATORY.
- CARE SHOULD BE TAKEN TO SHAPE THE BUILDING AREAS SUCH THAT WATER WILL NOT POND AROUND THE STRUCTURE DURING CONSTRUCTION AND CAUSE THE NEAR SURFACE CLAYS TO SWELL. THE PROPOSED STRUCTURE SHALL BE ISOLATED FROM ANY MOISTURE SOURCE WHICH MIGHT ALSO CAUSE SWELLING OF THE CLAYS AFTER COMPLETION OF THE CONSTRUCTION.
- WHEN THE STRUCTURE IS COMPLETE, THE GROUND SURFACE SHOULD SLOPE AWAY FROM THE STRUCTURE AND DOWN SPOUTS SHOULD CARRY RUNOFF WATER SEVERAL FEET FROM THE BUILDING, PREFERABLY INTO PAVED AREAS OR SEWERS, BEFORE DISCHARGING.
- DO NOT PLANT, OR LEAVE IN PLACE, DEEP ROOTED TREES WITHIN CLOSE PROXIMITY TO THE PERIMETER OF THE STRUCTURE. DEEP ROOTED TREES HAVE POTENTIAL TO REMOVE MOISTURE FROM BENEATH THE BUILDING IF PLANTED CLOSE ENOUGH TO ALLOW THE ROOT BULB EXTEND NEAR OR BENEATH THE BUILDING.
- AIR CONDITIONING CONDENSER DRAIN LINES TO DISCHARGE WATER A MINIMUM OF 5 FEET FROM THE PERIMETER OF THE STRUCTURE. THE DISCHARGE AREA SHALL HAVE SUFFICIENT SLOPE AWAY FROM THE STRUCTURE TO PREVENT STANDING WATER.
- THE FINAL ONE (1) FOOT OF FILL OUTSIDE THE BUILDING AREA SHOULD CONSIST OF A COHESIVE CLAYEY (CL) SOIL. FILL CAN NOT BE ALLOWED TO DRY OUT DURING OR AFTER COMPACTION. (P1 BETWEEN 15 AND 25).
- NOTE THAT SOME LEVELS OF RISK ARE ASSOCIATED WITH ALL FOUNDATION SYSTEMS AND THERE IS NO SUCH THING AS A "ZERO RISK" FOUNDATION. IT ALSO SHOULD BE NOTED THAT THE FOUNDATION PROVIDED IS NOT DESIGNED TO RESIST SOIL MOVEMENT AS A RESULT OF SEWER/PLUMBING LEAKS, EXCESSIVE IRRIGATION, NON UNIFORM IRRIGATION, POOR DRAINAGE, AND WATER PONDING NEAR THE FOUNDATION SYSTEM.
- CONSTRUCTION FOLLOWING WET WEATHER PERIODS WILL LIKELY ENCOUNTER DIFFICULTIES DUE TO THE WET OR SOFT SURFACE SOILS BECOMING A GENERAL HINDRANCE TO EQUIPMENT DUE TO RUTTING AND PUMPING OF THE SOIL SURFACE. IF THE SUBGRADE CANNOT BE ADEQUATELY COMPACTED TO MINIMUM DENSITIES AS DESCRIBED ABOVE, ONE OF THE FOLLOWING MEASURES WILL BE REQUIRED:
 - REMOVAL AND REPLACEMENT WITH SELECT FILL.
 - CHEMICAL TREATMENT OF THE SOIL TO DRY SOIL AND INCREASE THE STABILITY OF THE SUBGRADE.
 - DRYING BY NATURAL MEANS.

SLAB ON GRADE	
THICKNESS	24.0 INCHES
REINFORCING (EACH WAY)	#7 AT 12" O.C.
REINFORCING LOCATION	Top and Bottom
VISQUEEN	15 MIL

SUBGRADE PREPARATION

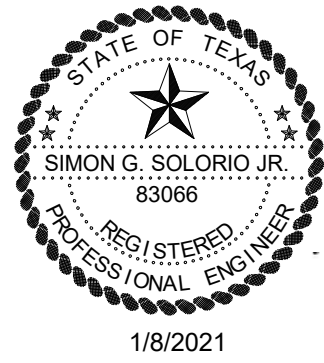
- SITE PREPARATION
 - PREPARATION OF EXISTING
ALL AREAS TO SUPPORT SELECT FILL SHALL BE STRIPPED
ALL VEGETATION AND/OR ORGANIC
ADDITIONAL DEPTH OF REMOVAL:
EXTEND BEYOND BUILDING FOOT
EXPOSED SUBGRADE SHALL BE SCARIFIED TO A DEPTH
MOISTURE (OPTIMUM MOISTURE
COMPACTION (ASTM D-698) (MAXIMUM
SELECT FILL MATERIAL
AMOUNT OF COMPACTED SELECT
NO ORGANIC OR OTHER PERISHABLE
NO STONES LARGER
*FINISHED FLOOR SHALL BE AS INDICATED ON CIVIL DRAWINGS, INCREASE
INDICATED AMOUNT OF FILL AS REQUIRED TO ACHIEVE MOST STRINGENT
REQUIREMENT. INCREASE EXCAVATION AS REQUIRED TO MEET MINIMUM
AMOUNT OF SELECT FILL
SELECT FILL SHALL as specified on the soils report:
Place 1 layer of Tensar TriAx TX5 geogrid on exposed subgrade prior to placing select
fill. Place 2 additional layers of Tensar TriAx TX5 equally spaced within the select fill
T-001 Item 247 (Crushed Limestone Material)
Type A or B
Grade 1-2 or 3
 - PLACING SELECT FILL
FILL LIFTS (LOOSE MEASURE, NOT EXCEEDING):
COMPACTION OF SELECT FILL
COMPACTION (ASTM D-698) (MAXIMUM DENSITY):
ATTERBERG LIMITS (ONE AT A RATE OF):
COMPACTION (ONE TEST PER):
- COMPACTION (ASTM D-698) (MAXIMUM DENSITY):
-1 TO +3
>98%
- COMPACTION TESTING
5,000 CU. YDS.
3,000 SQ. FT./LIFT
(MIN. OF 3 PER LIFT)

4
S201



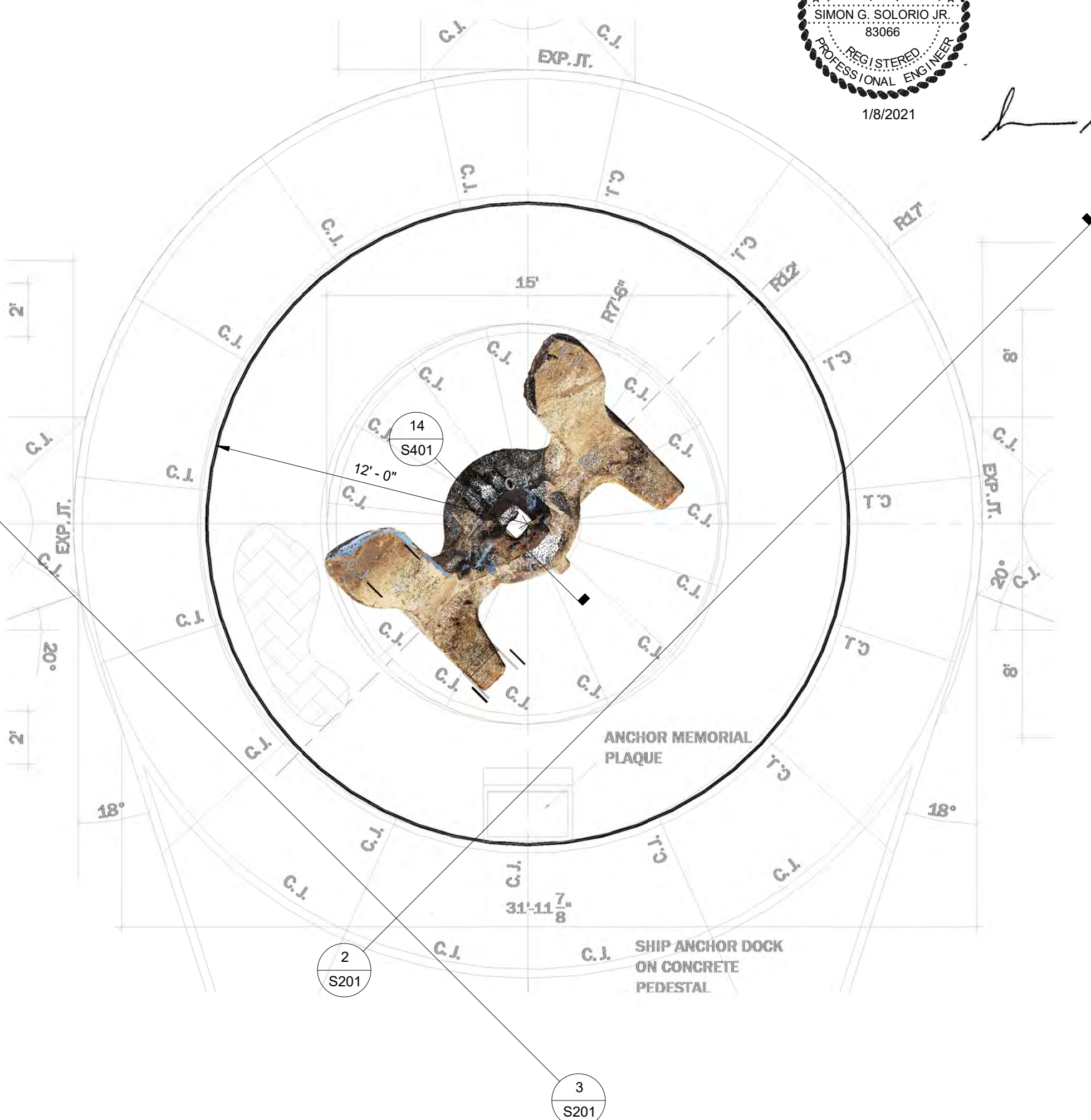
Angled View
1/2" = 1'-0"

5
S201 S201



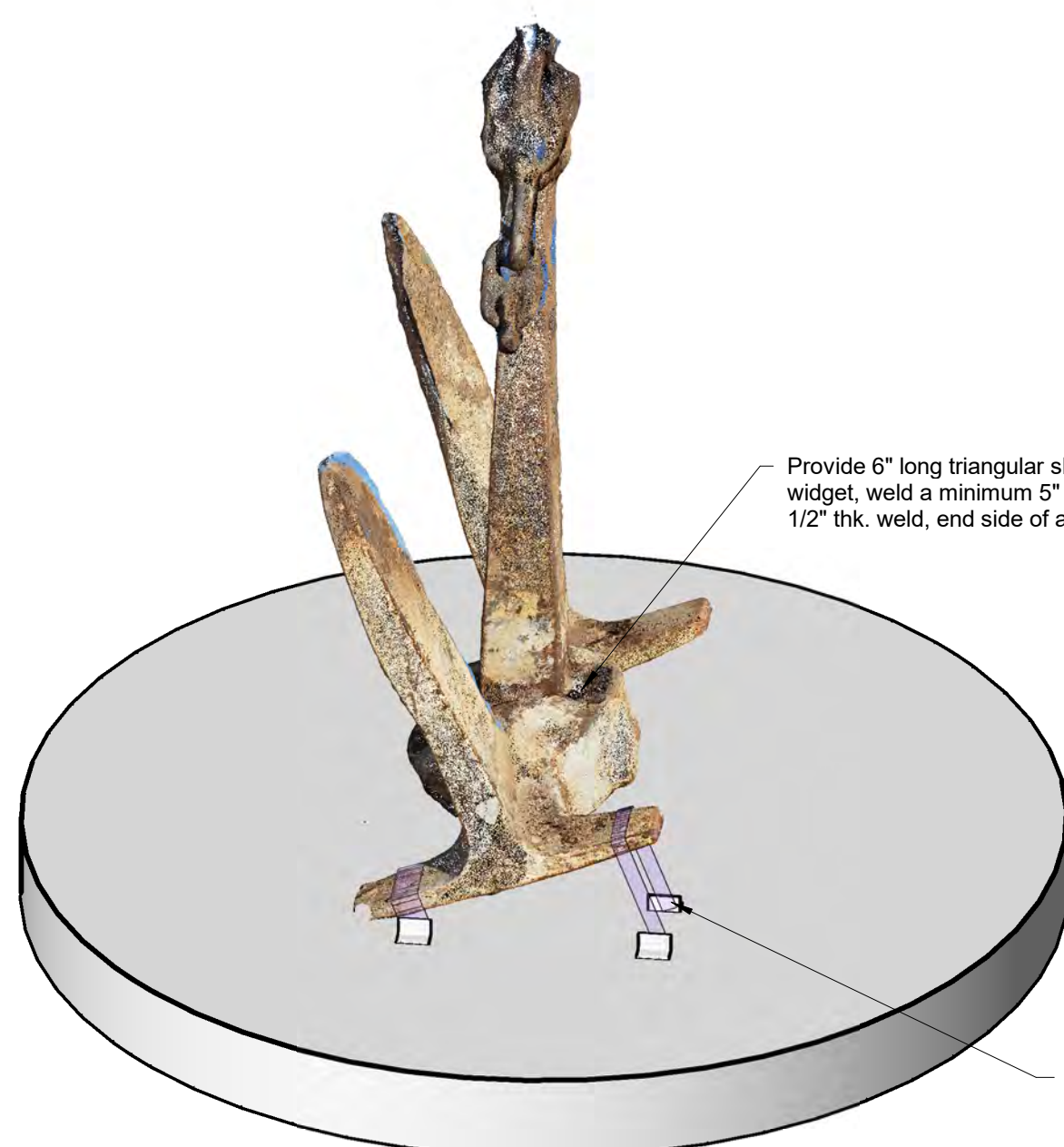
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108 W 16th Street
Mission, TX 78572
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www.solorio.com

Solorio, Inc.
2301 West Loop
Suite 100
Houston, TX 77020
Structural Engineering
Established 1916



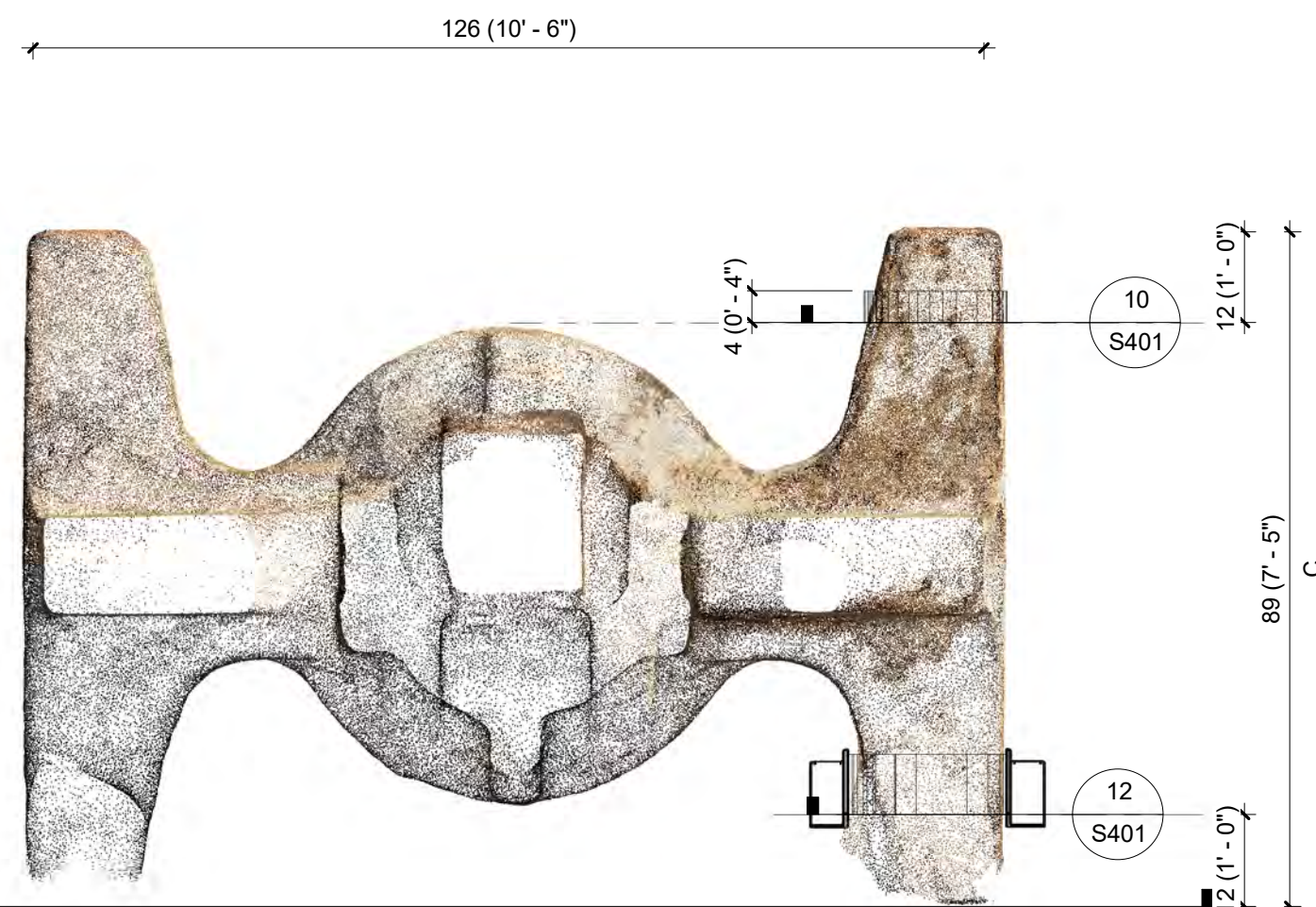
Foundation Plan Anchor
1/4" = 1'-0"

1
S201 S201



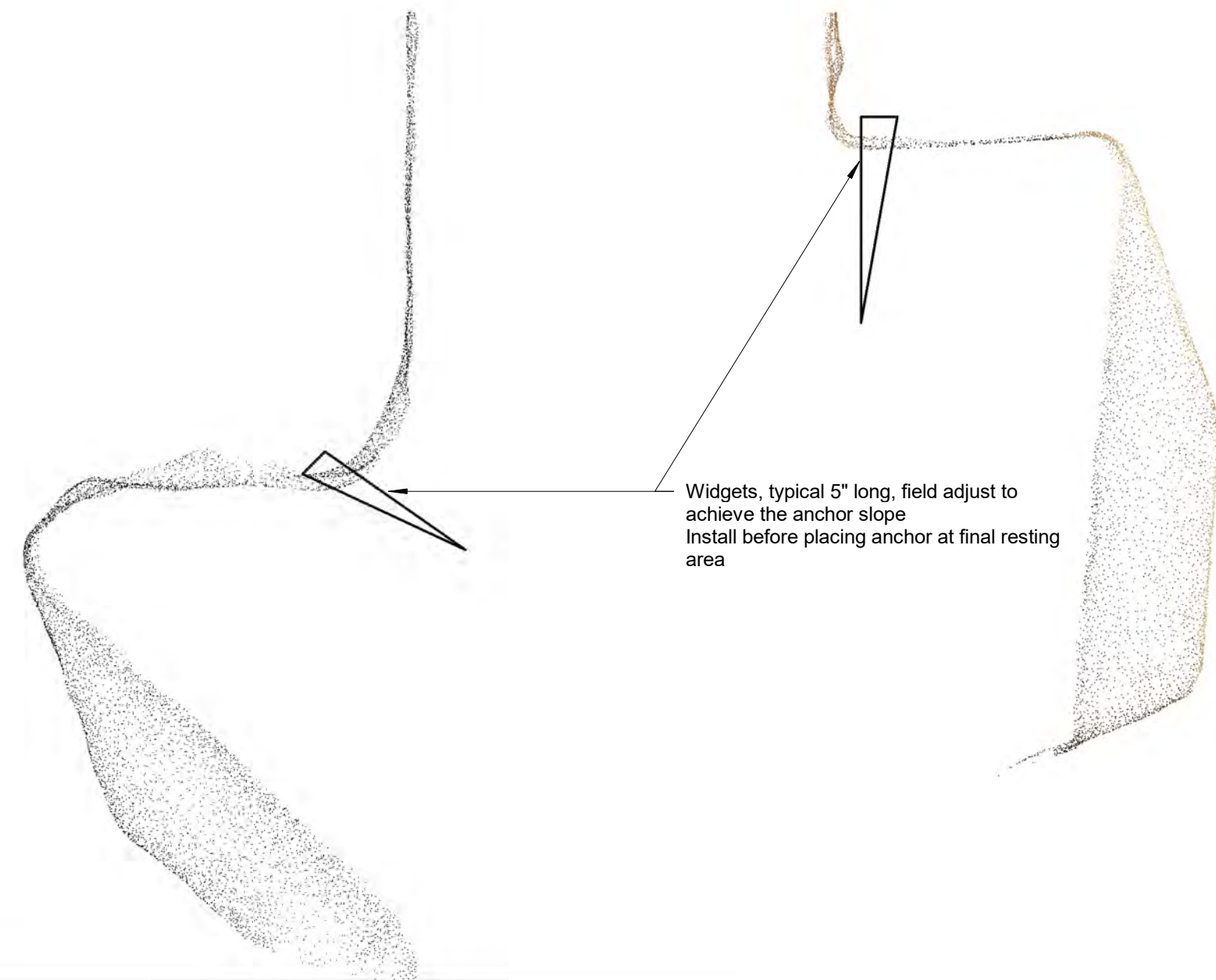
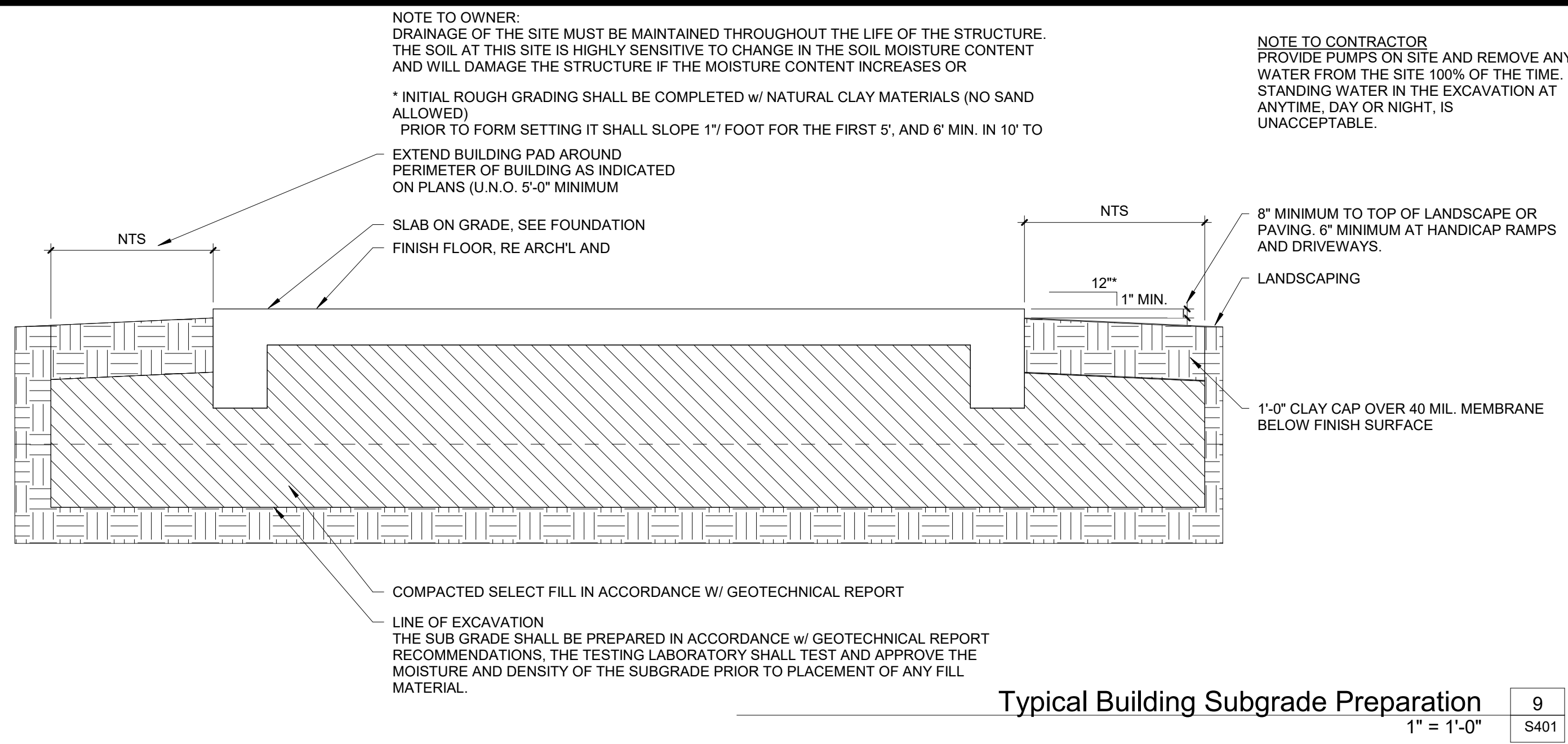
3D view

6
S201

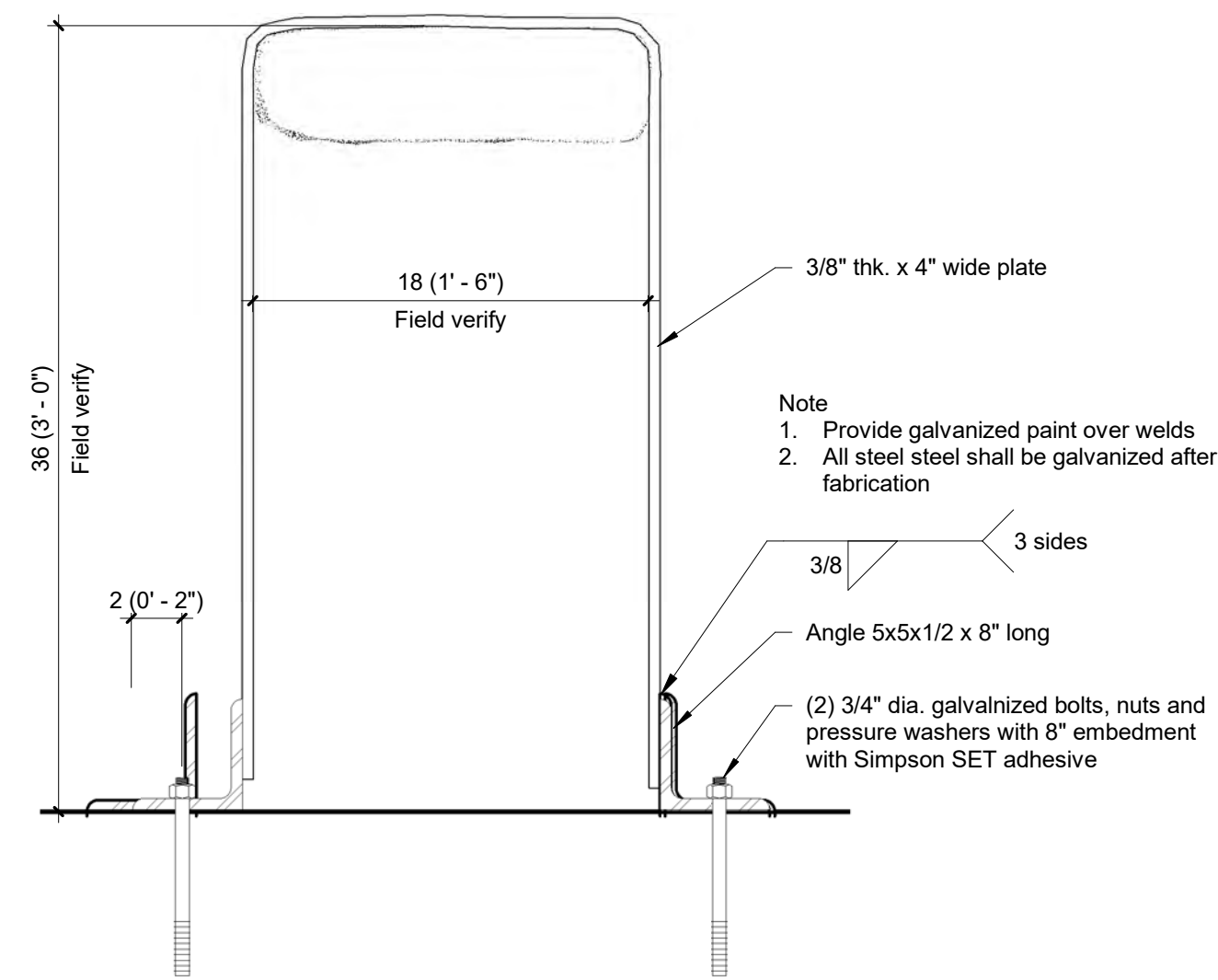


Top View
1/2" = 1'-0"

4
S201 S201



Widget at center of anchor
1 1/2" = 1'-0"



Strap at high side
1 1/2" = 1'-0"

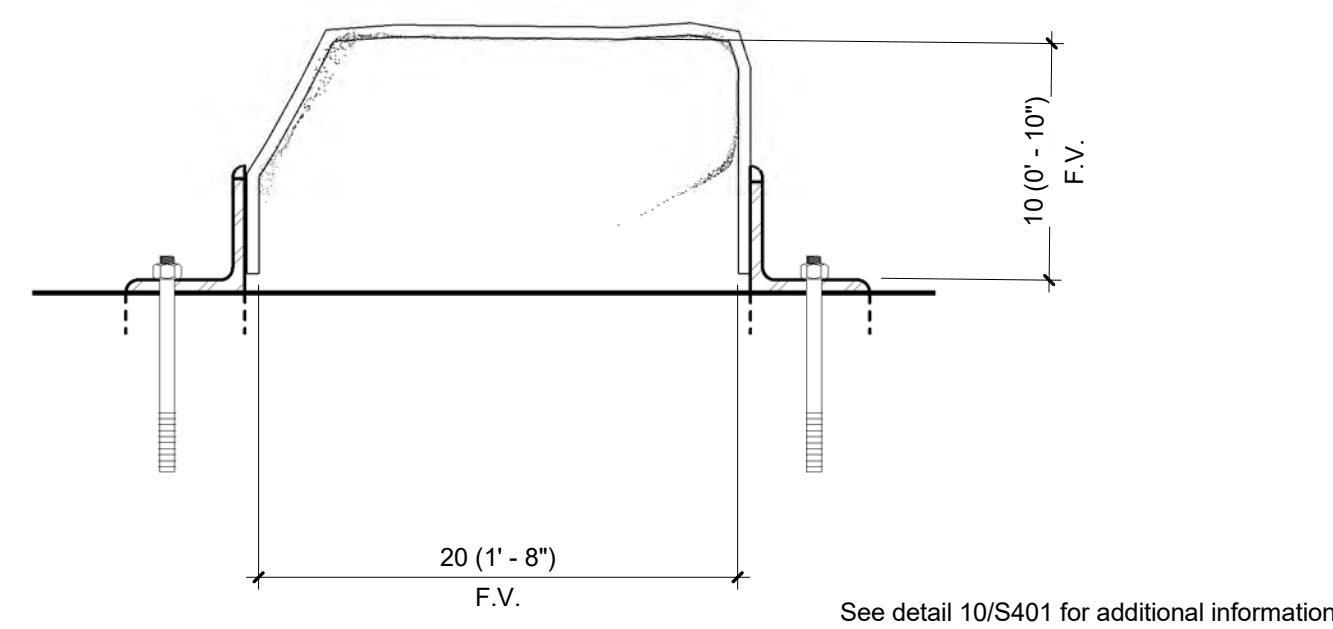
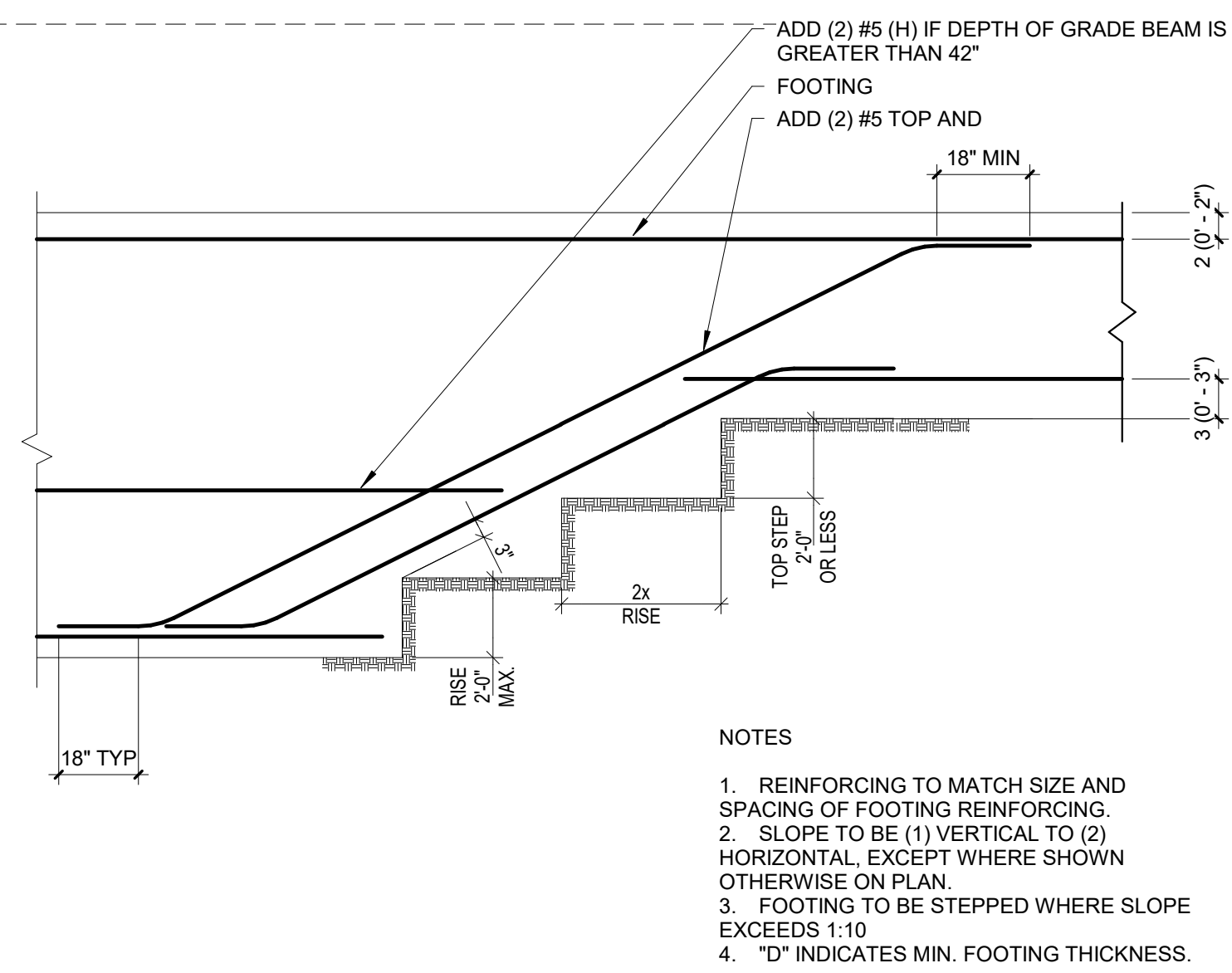
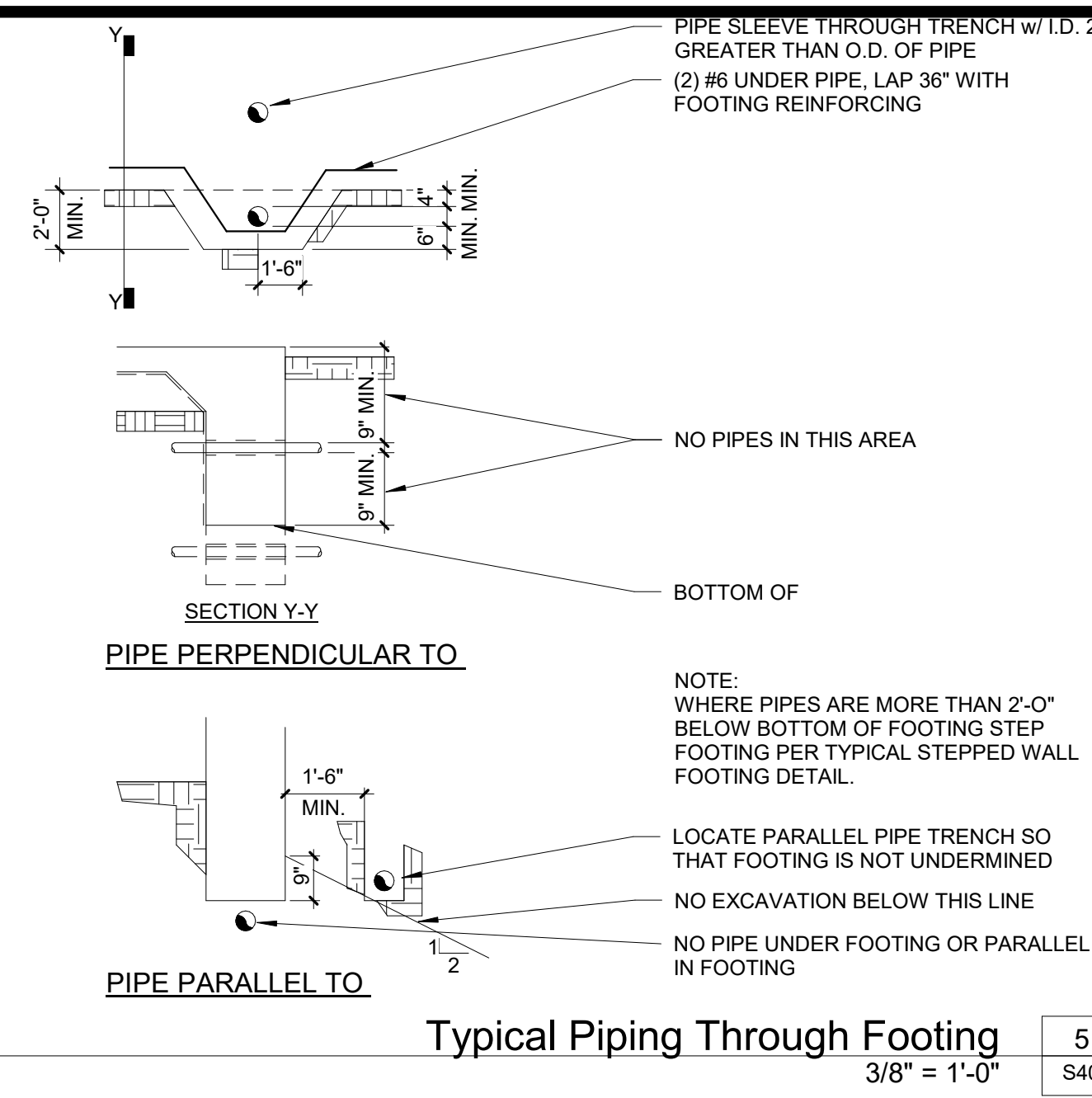
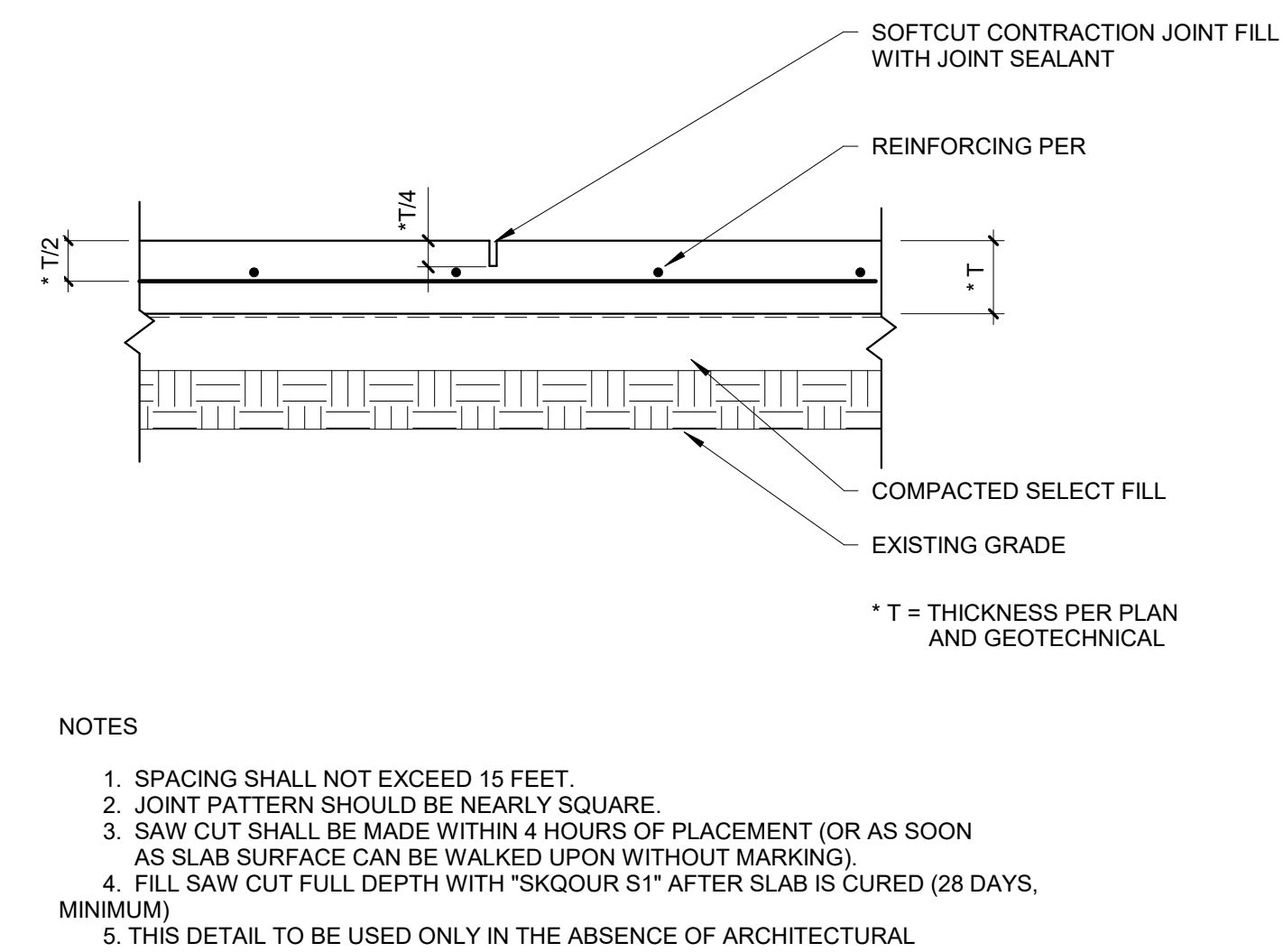


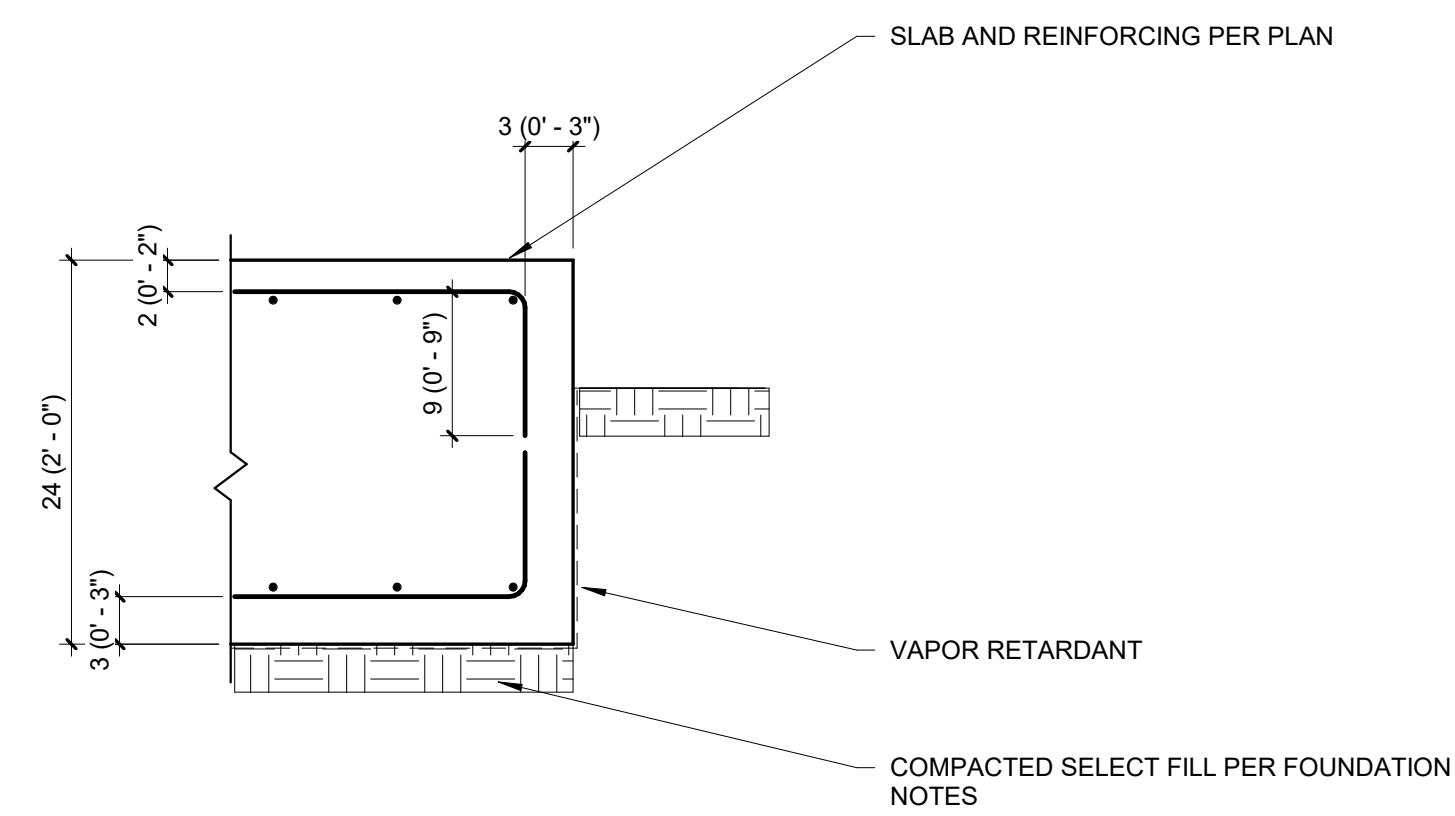
Plate at Low End
1 1/2" = 1'-0"



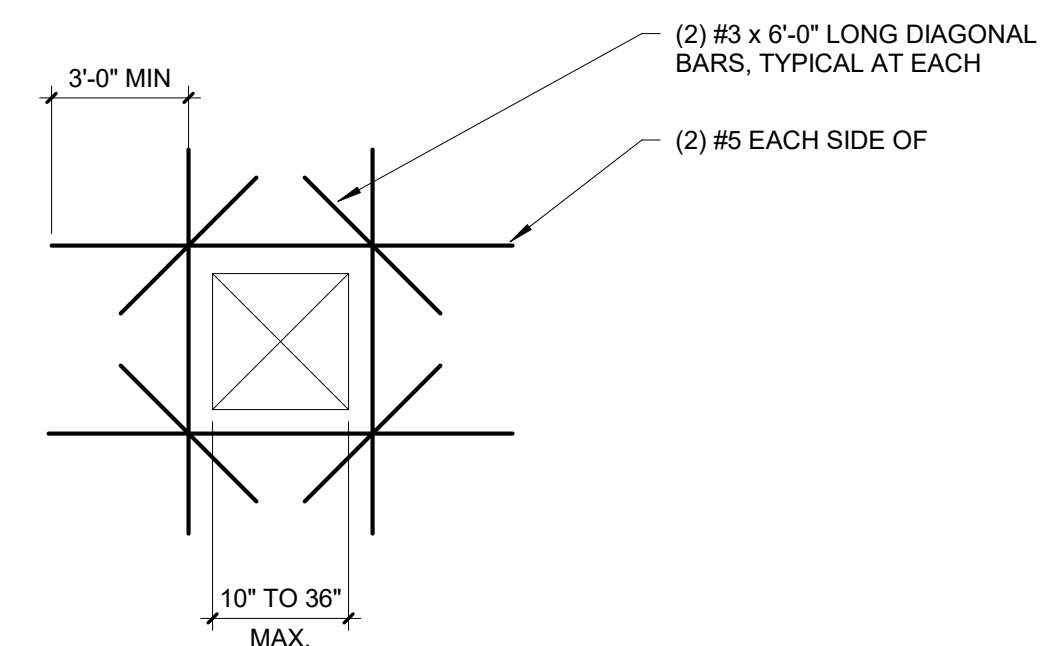
Typical Stepped Footing
1" = 1'-0"



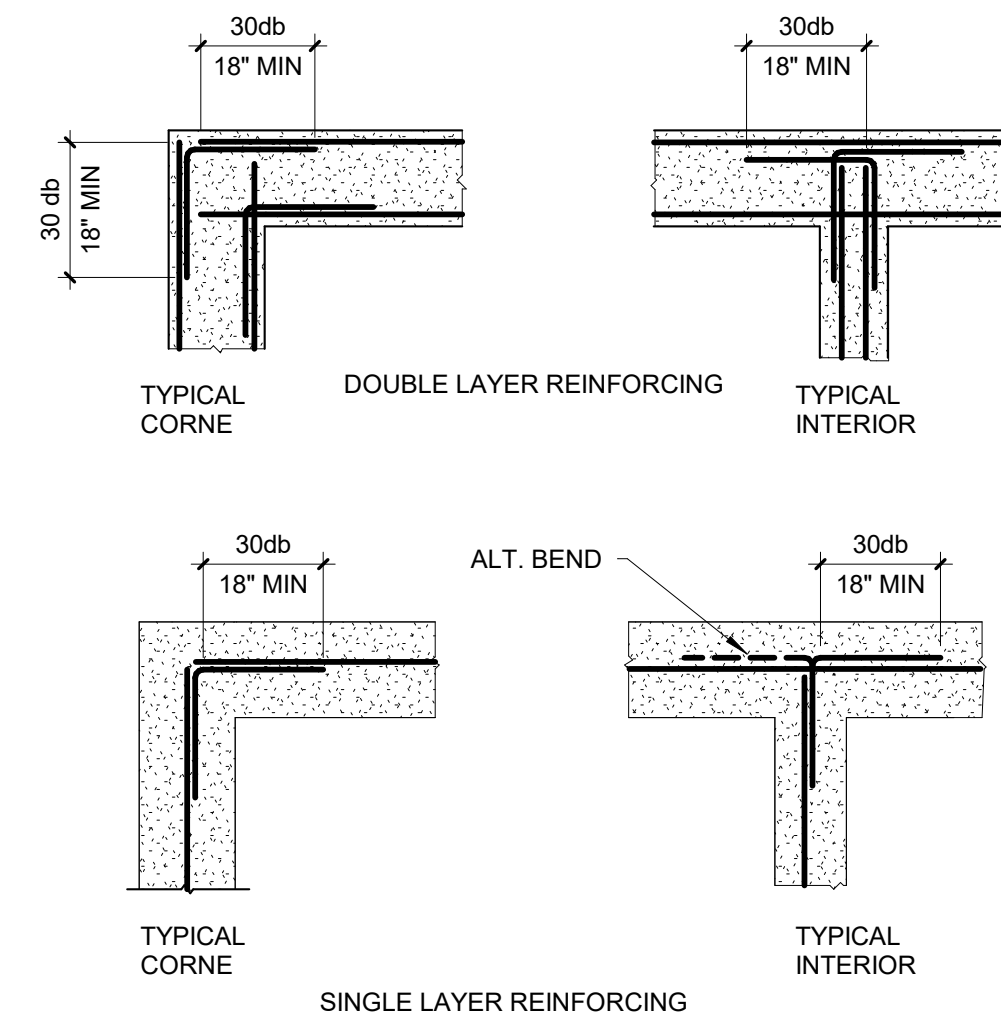
Typical Slab Contraction Joint
1" = 1'-0"



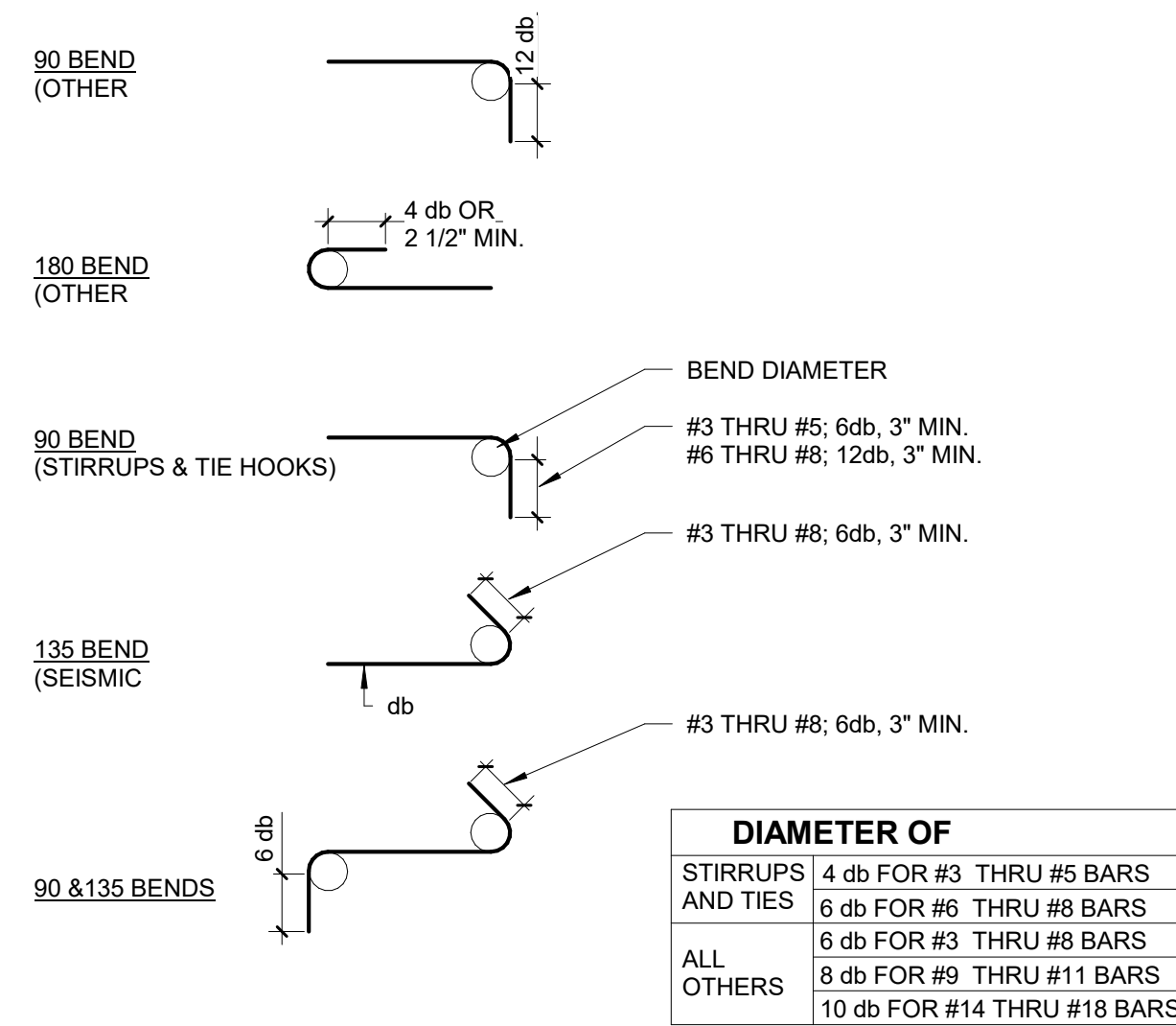
Footing Edge
1" = 1'-0"



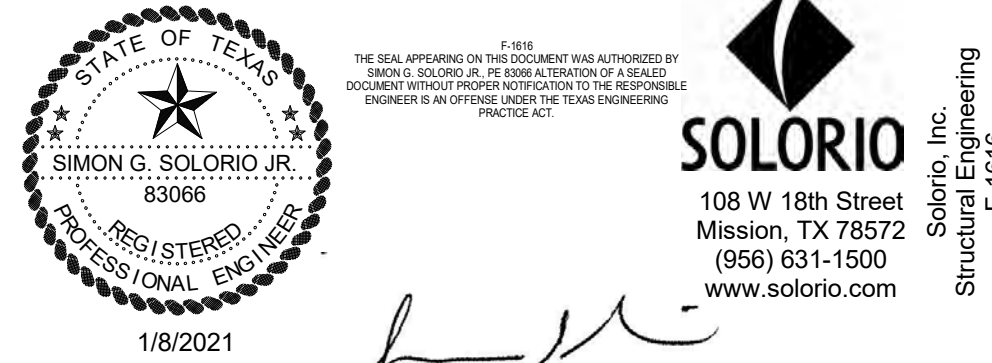
Typical Slab Opening Reinforcing
1/4" = 1'-0"



Typical Reinforcing at Concrete Intersections
1/4" = 1'-0"



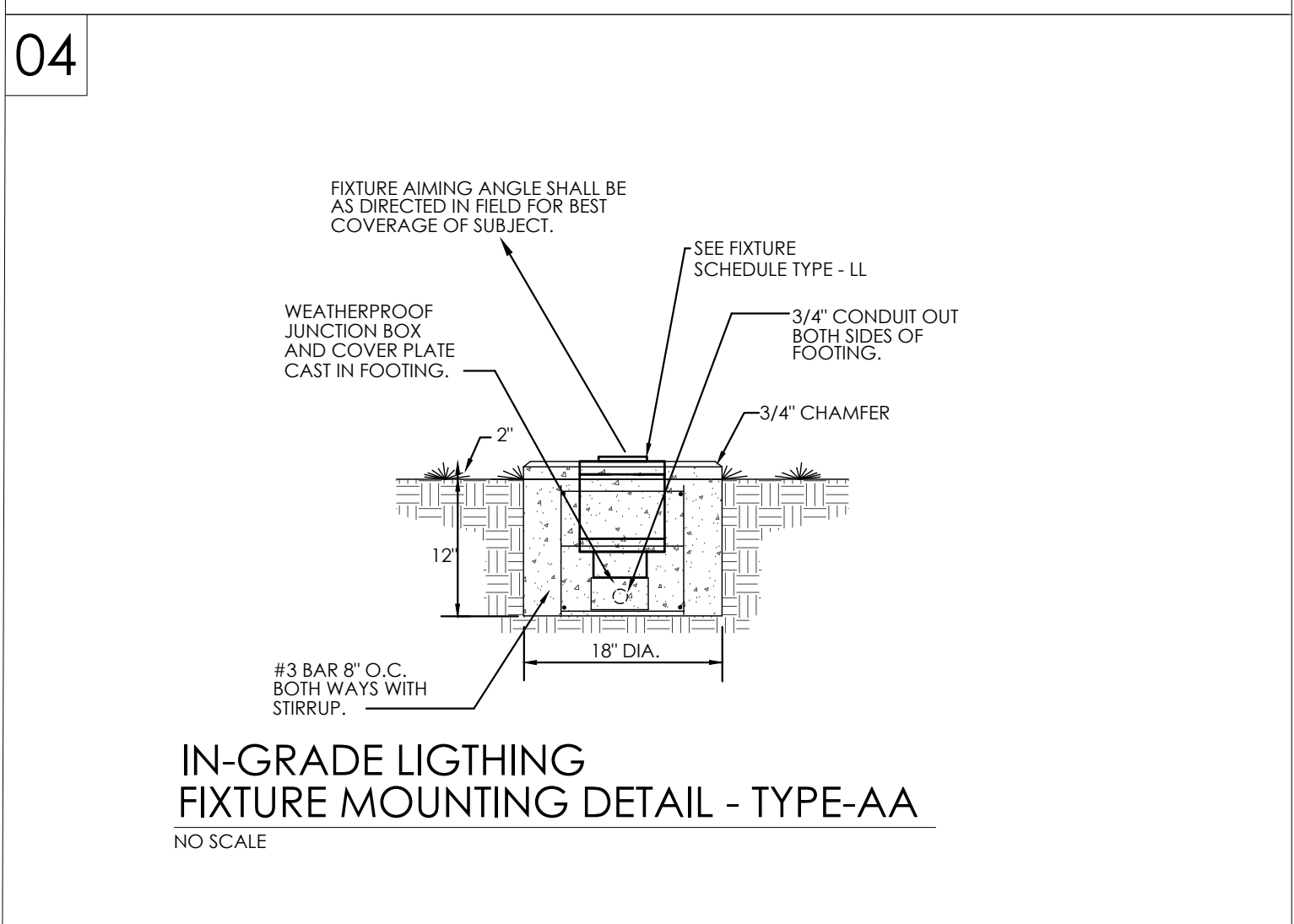
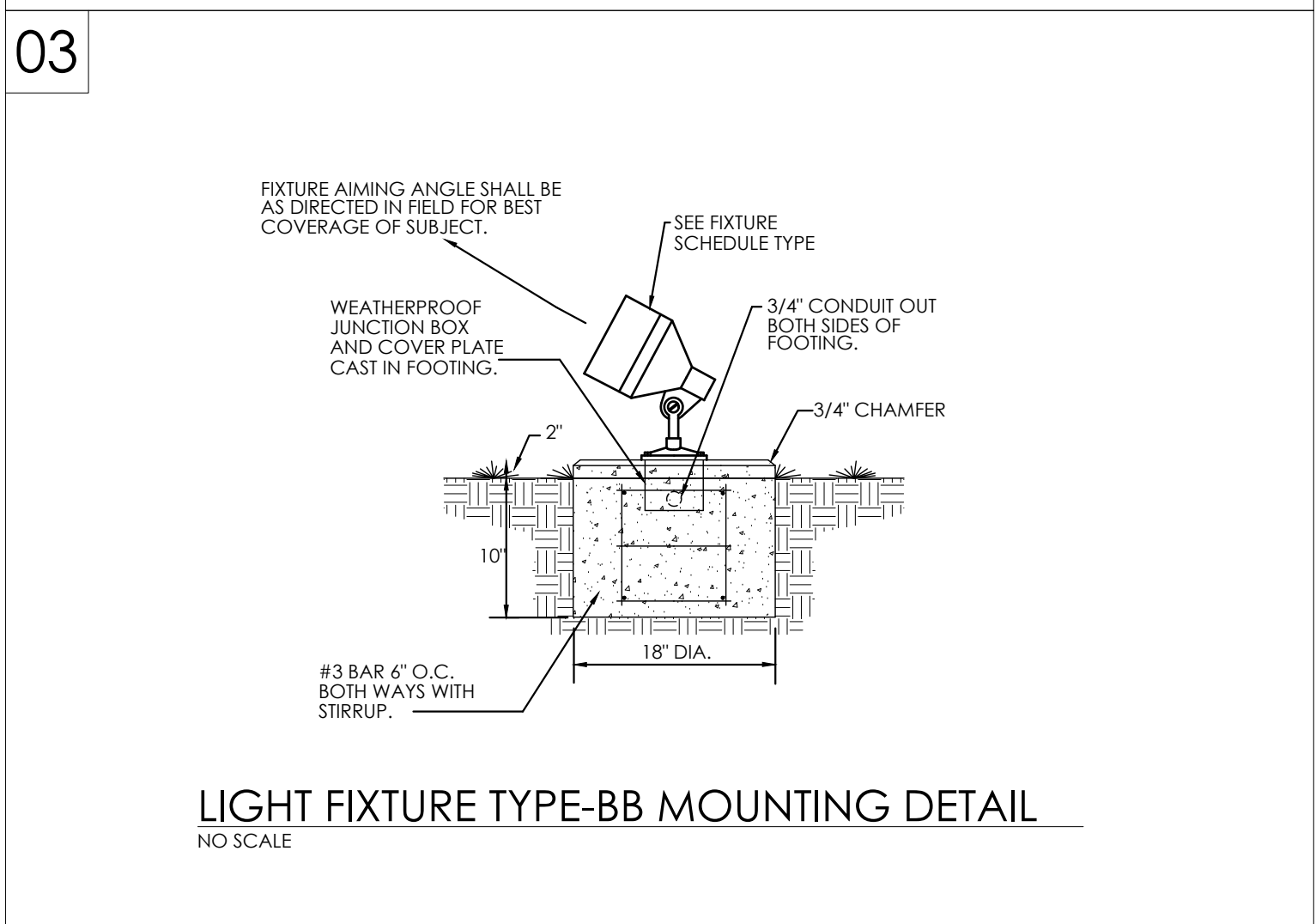
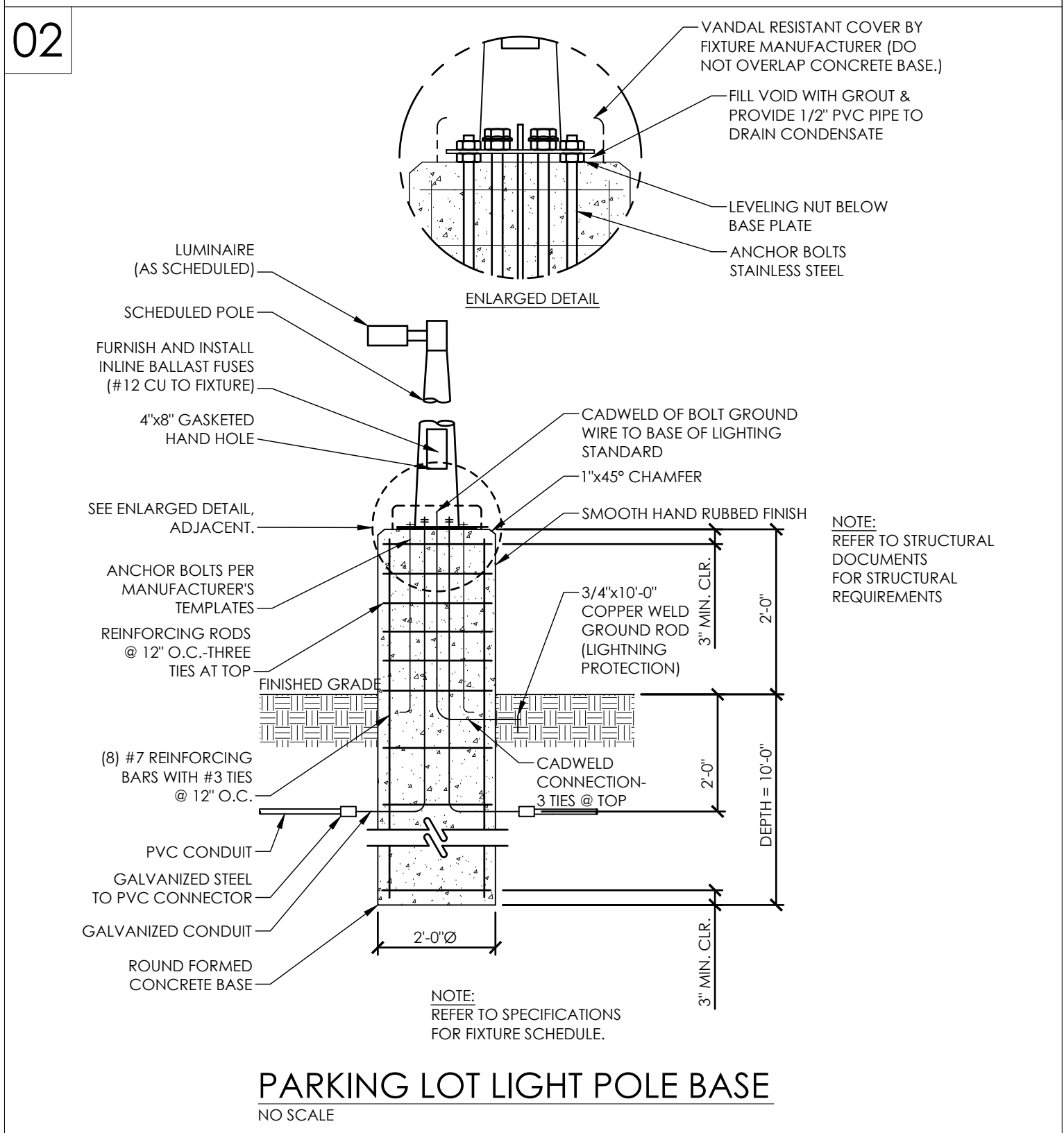
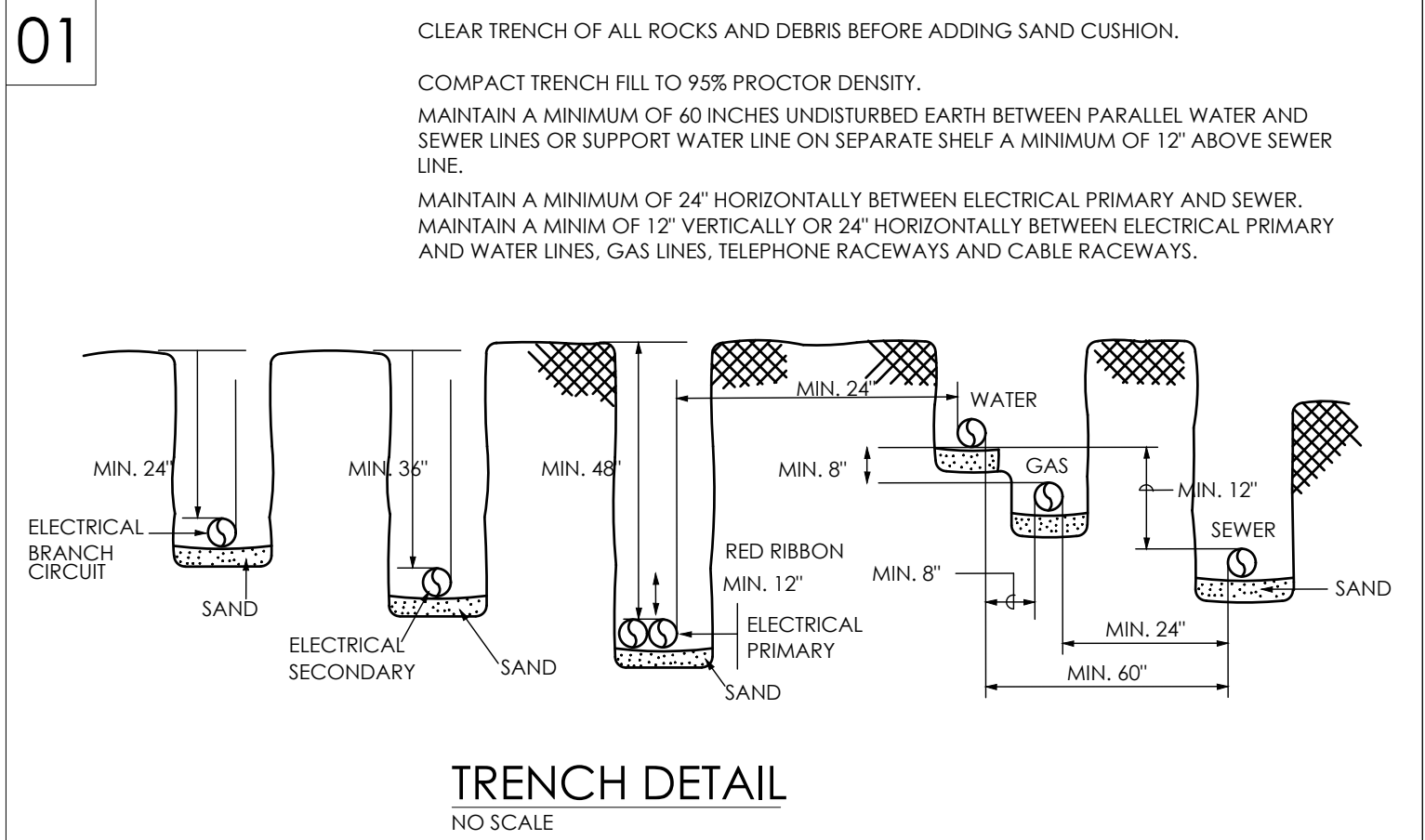
Typical Reinforcing Bends
1/4" = 1'-0"



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Established 1976

SHEET NO.	S401
Set Numbe	
REVISED:	
1/8/2021	Author
Date	Drawn
	Project No. 15152
ROBERTO J. RUIZ ARCHITECT, INC.	
615 W. TANDY ROAD BROWNSVILLE, TEXAS 78020 (956) 350-9195 OFFICE (956) 350-9196 FAX ARCH1RUIZ@AOL.COM	

BROWNSVILLE NAVIGATION DISTRICT OF CAMERON COUNTY, TEXAS	PORT of BROWNSVILLE WORLD CLASS.
OWNER: BROWNSVILLE NAVIGATION DISTRICT PORT OF BROWNSVILLE BROWNSVILLE, TEXAS	

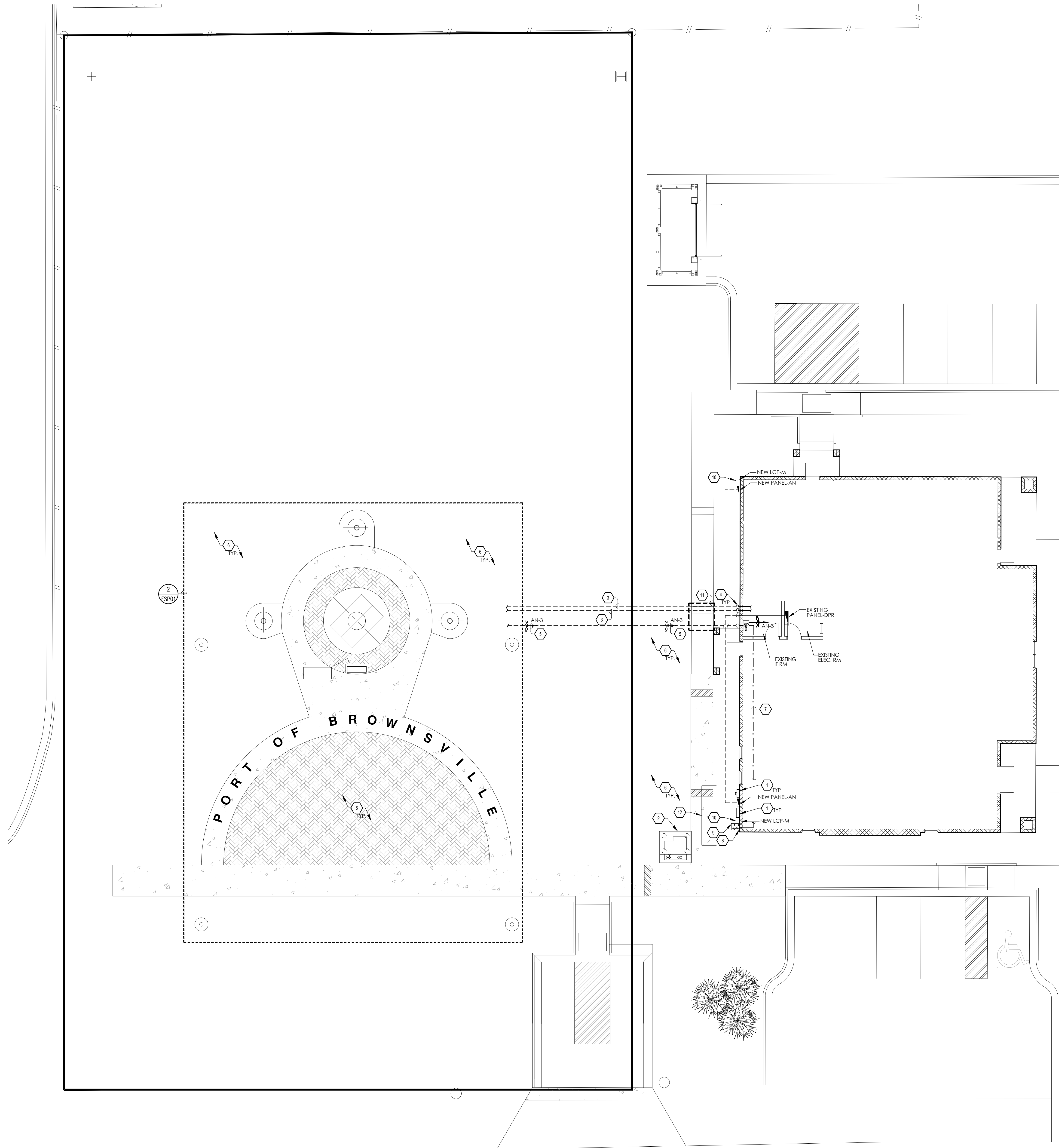


LUMINAIRE SCHEDULE				
MARK	VOLTAGE	LAMP	MOUNTING	DESCRIPTION
AA	120V	LED 3000 LM 4000K 9W	IN-GRADE	LED IN-GRADE, WALL WASH FIXTURE, WET LOCATION RATED
BB	120V	LED 3000 LM 4000K 106W	SURFACE	LED FLOOD LIGHT FIXTURE, WET LOCATION RATED
CC	120V	1-LED FIXTURE 21444 LM 4000K 155W	25' POLE	LED AREA LUMINAIRE, POLE MOUNT LUMINAIRE, INCLUDE BASE COVER, RATED FOR WET LOCATION, UL LISTED, POLE SHALL BE SIZE FOR MIN. 150 WPM, INCLUDE VIBRATION DAMPERS

NOTE:
1.) EQUAL MANUFACTURER SHALL BE ACCEPTABLE WITH EQUAL PERFORMANCE OF SPECIFIED EQUIPMENT AND APPROVED BY ENGINEER.
2.) SUBMIT EQUAL MANUFACTURERS TO ENGINEER 10 DAYS PRIOR TO BID DATE.
3.) SUBMIT LIGHT FIXTURE CUTSHEETS TO OWNER FOR APPROVAL PRIOR TO ORDER.
4.) CONTRACTOR SHALL VERIFY THAT ANY IRRIGATION SPRINKLER HEAD IS AWAY FROM ANY LIGHT POLE A MINIMUM OF 75' TO AVOID CONSISTENT WATER TO LIGHT POLE. COORDINATE WITH IRRIGATION CONTRACTOR PRIOR TO ANY WORK.
5.) CONTRACTOR SHALL VERIFY THAT ANY LIGHT POLES ON COMMON AREAS AND SIDE WALKS, THAT THE LOCATION OF THE POLE TO MEET THE ADA REQUIREMENTS.
6.) CONTRACTOR SHALL FIELD VERIFY FOR EXISTING/NEW UNDERGROUND UTILITIES PRIOR TO ANY WORK.

480/277V, 3Ø, 4W ELECTRICAL LOAD ANALYSIS	
DESIGN CONNECTED LOAD	
DESCRIPTION	TOTAL KVA
LIGHTING	2
GENERAL POWER	7
TOTAL KVA:	9
TOTAL AMPS:	25
TOTAL AMPS+25%:	31
WIRE SIZE AMPS:	100

PANEL-AN	AMP	LUGS	NEMA	VILLI		(P)	(W)		V(LN)	MINT	K(A)C	FDR	
	100	MB	3R	208		3	4	1-RUN	120	SUR.	10	4#2, 1#8G, 2" C	
LOAD SERVED	CT	LOAD	BR	POLE	FEEDER/BRANCH CIRCUIT	A	B	C	POLE	BKR	LOAD	CT	LOAD SERVED
	#	KVA	SIZE		SIZE					SIZE	KVA	#	
LIGHT POLES	1	0.7	20	1	2#8, 1#10G, 3/4" C	+	+	-	1	20	1	2	FLAG POLE FLOOD-LTG
ANCHOR IN-GRADE LTG	3	0.1	20	1	2#12, 1#12G, 1/2" C	+	+	-	1	20	1	4	SPACE
SPACE	5	-	-	-	-	+	+	-	-	-	-	6	SPACE
SPACE	7	-	-	-	-	+	+	-	-	-	-	8	SPACE
SPACE	9	-	-	-	-	+	+	-	-	-	-	10	SPACE
1 RCPT	11	1.2	20	1	2#8, 1#10G, 3/4" C	+	+	-	1	20	1.2	12	1 RCPT
1 RCPT	13	1.2	20	1	2#10, 1#10G, 3/4" C	+	+	-	1	20	1.2	14	1 RCPT
1 RCPT	15	1.2	20	1	2#10, 1#10G, 3/4" C	+	+	-	1	20	1.2	16	1 RCPT
SPACE	17	-	-	-	-	+	+	-	-	-	-	18	SPACE
SPACE	19	-	-	-	-	+	+	-	-	-	-	20	SPACE
SPACE	21	-	-	-	-	+	+	-	-	-	-	22	SPACE
SPACE	23	-	-	-	-	+	+	-	-	-	-	24	SPACE
SPACE	25	-	-	-	-	+	+	-	-	-	-	26	SPACE
SPACE	27	-	-	-	-	+	+	-	-	-	-	28	SPACE
SPACE	29	-	-	-	-	+	+	-	-	-	-	30	SPACE
SPACE	31	-	-	-	-	+	+	-	1	20	32	SPARE	
SPACE	33	-	-	-	-	+	+	-	1	20	34	SPARE	
SPACE	35	-	-	-	-	+	+	-	1	20	36	SPARE	
SPD	37	30	3		4#10, 1#10G, 3/4" C	+	+	-	1	20	38	SPARE	
-	39	-	-	-	-	+	+	-	1	20	40	SPARE	
-	41	-	-	-	-	+	+	-	1	20	42	SPARE	
LOADS	-	(KVA)	-	-	-	4	3	2	(KVA)	-	DESCRIPTIVE LOADS	-	
CONNECTED LOAD	-	9	-	-	-	-	-	-	2	-	LIGHTING	-	
RESERVE - %	25	2	-	-	-	-	-	-	7	-	RECEPTACLES	-	
TOTAL LOAD	-	11	-	-	-	-	-	-	0	-	COOLING	-	
									0	-	HEATING	-	
									0	-	MOTOR	-	
									0	-	KITCHEN	-	
									0	-	OTHER	-	
TOTAL AMPS	-	31	-	-	-	-	-	-	-	-	-	-	-
NOTES:													
1)													
2)													
3)													



GENERAL ELECTRICAL NOTES (TO ALL SHEETS)

- A. CONTRACTOR IS RESPONSIBLE TO VERIFY AND COORDINATE WITH EXISTING/NEW UNDERGROUND UTILITIES PRIOR TO ANY WORK.
- B. CONTRACTOR IS RESPONSIBLE FOR ALL EXCAVATION, TRENCHING AND BACKFILLING. COORDINATE WITH ALL UTILITIES PRIOR TO EXCAVATION.
- C. CONTRACTOR IS RESPONSIBLE CALL DIG-TESS: 1-1800-DIG-TESS 2-BUSINESS DAYS IN ADVANCE.
- D. ALL ELECTRICAL EQUIPMENT OUTDOORS SHALL BE RATED TYPE NEMA 3R UNLESS OTHERWISE NOTED.
- E. CONTRACTOR SHALL HAVE A WORKING KNOWLEDGE OF LOCAL CODES AND ORDINANCES. ALL WORK SHALL CONFORM TO NATIONAL ELECTRICAL CODES AND ALL OTHER AUTHORITY HAVING JURISDICTION. OBTAIN PERMITS AND PAY ALL FEES. PERFORM MODIFICATIONS TO MEET CODE AND ORDINANCE REQUIREMENTS AT NO ADDITIONAL COST TO OWNER. ARCHITECT OR ENGINEER. VERIFY PRIOR TO BID DATE.
- F. VERIFY AT JOB SITE THE EXACT LOCATIONS OF STRUCTURAL MEMBERS SUCH AS BEAMS, COLUMNS, ETC., TO LOCATE EQUIPMENT CONDUIT, PANELS AND DEVICES. IF DEVIATIONS FROM THE DRAWING ARE NECESSARY TO MEET STRUCTURAL CONDITIONS MAKE DEVIATIONS WITHOUT ADDITIONAL COST, TO OWNER, ARCHITECT, OR ENGINEER.
- G. IN COOPERATION WITH OTHER CONTRACTORS, DETERMINE THE EXACT LOCATION OF EQUIPMENT AND DEVICES AND CONNECTIONS THERETO BY REFERENCE TO THE SUBMITTALS AND ROUGH-IN DRAWINGS, AND BY MEASUREMENTS AT THE SITE. REFER TO ALL OTHER TRADES SUBMITTAL FOR ELECTRICAL INFORMATION.
- H. GROUND ENTIRE ELECTRICAL SYSTEM IN STRICT ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE.
- I. VERIFY AT JOB SITE GENERAL WORK TO BE DONE AS SPECIFIED, AS NOTED, OR AS REQUIRED FOR INSTALLATION ELECTRICAL SYSTEMS PRIOR TO SUBMISSION OF BIDS.
- J. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS AND EQUIPMENT TO BE REMOVED AND REPLACED BEFORE SUBMITTING HIS BID.
- K. ELECTRICAL DRAWINGS ARE DIAGRAMMATIC AND SMALL SCALE ONLY. THEY CONVEY THE INTENT OF THE WORK BUT DO NOT SHOW DETAIL SUCH AS JUNCTION AND PULL BOXES REQUIRED BY THE SPECIFICATIONS AND THE NATIONAL ELECTRICAL CODE(NEC). PROVIDE ALL MATERIALS AND METHODS CALLED FOR IN THE SPECIFICATIONS AND AS REQUIRED IN THE NEC TO PROVIDE A COMPLETE INSTALLATION OF ALL WORK.
- L. ALL WIRING SHALL BE COPPER.
- M. ALL SLEEVES, PENETRATIONS, ETC. SHALL BE SEALED SOLD NON-SHRINKING MATERIAL IMMEDIATELY UPON FILING OF THE OPENING WITH PIPE OR CONDUIT.
- N. ARRANGE FOR SOURCES OF TEMPORARY CONSTRUCTION SERVICES. SUCH SERVICES SHALL BE NOMINALLY 120/240V, 1-PHASE, 3-WIRE FROM WHICH A COMPLETE SYSTEM OF TEMPORARY POWER AND LIGHTING SHALL BE PROVIDED FOR ALL CONSTRUCTION NEEDS.

KEYED NOTES: POWER

- 1 EXISTING SERVICE EQUIPMENT FOR PERMIT/ RECORDS BUILDING.
- 2 EXISTING 120/208V, 3Ø TRANSFORMER.
- 3 PROVIDE 1-2" C WITH PULL STRING FROM DATA OUTLET TO IT ROOM. VERIFY EXACT LOCATION OF IT ROOM PRIOR TO ANY WORK.
- 4 PROVIDE CONDUIT BODY APPROXIMATELY 18"-24" AFF. PENETRATE WALL INTO THE INTERIOR SPACE AND ROUTE CONDUITS TO THE PROPER ROOMS. ALL PENETRATIONS SHALL BE SEALED. FIELD COORDINATE EXACT SUB OUT LOCATIONS AND CONDUIT ROUTES PRIOR TO ANY WORK.
- 5 EXTERIOR LIGHTING CIRCUIT TO BE ROUTED TO PANEL-AN, PROPOSED CONDUIT PATH SHALL BE COORDINATED PRIOR TO ANY WORK.
- 6 CONTRACTOR IS RESPONSIBLE TO FIELD IDENTIFY ALL EXISTING CONDITIONS AND UTILITIES WITHIN AREA OF NEW CONSTRUCTION PRIOR TO ANY WORK.
- 7 ROUTE CONDUIT ABOVE CEILING LEVEL TO EXTERIOR DIMMING SWITCH.
- 8 PENETRATE WALL AND SEAL PENETRATION. FIELD COORDINATE EXACT LOCATION AND CONDUIT ROUTE PRIOR TO ANY WORK.
- 9 PROVIDE NEMA-4X BOX FOR DIMMING SWITCH. COORDINATE LOCATION PRIOR TO ANY WORK.
- 10 PROVIDE NEMA-4X ENCLOSURE FOR RELAY PANEL. COORDINATE LOCATION PRIOR TO ANY WORK.
- 11 SAW CUT EXISTING SURFACE AND PATCH TO MATCH EXISTING. CONTRACTOR TO FIELD IDENTIFY EXISTING CONDITIONS PRIOR TO ANY WORK.
- 12 COORDINATE ALL EXISTING ELECTRICAL EQUIPMENT LOCATIONS WITH PROPOSED NEW EQUIPMENT LOCATIONS. CONTRACTOR TO FIELD COORDINATE PRIOR TO ANY WORK.

1 ELECTRICAL SITE PLAN
SCALE: 1"=10'-0"

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SHEET TITLE:
ELECTRICAL SITE PLAN

PROJECT: PORT OF BROWNSVILLE
ANCHOR PARK
OWNER: BROWNSVILLE NAVIGATION DISTRICT
PORT OF BROWNSVILLE
BROWNSVILLE, TEXAS



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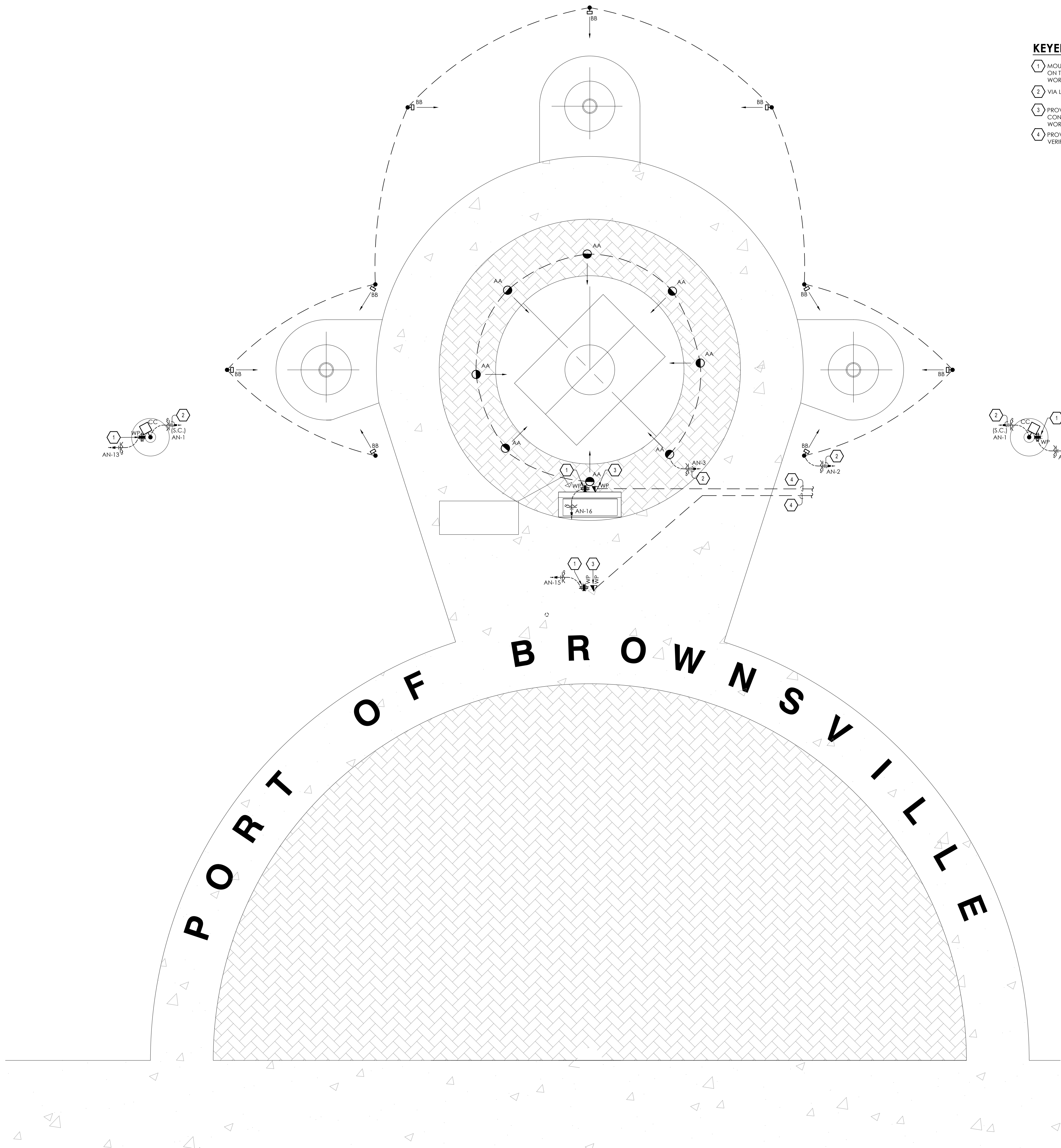
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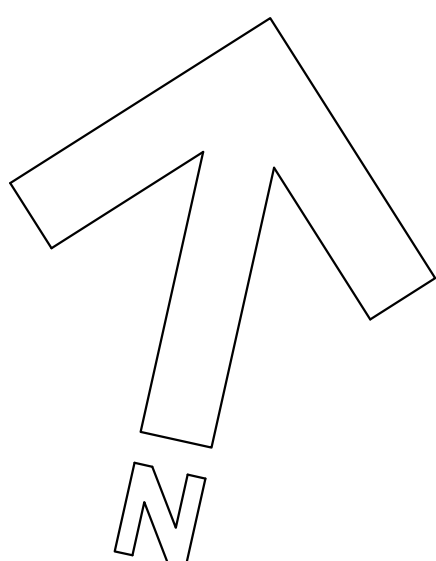
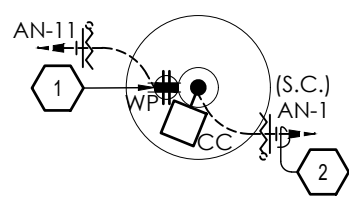
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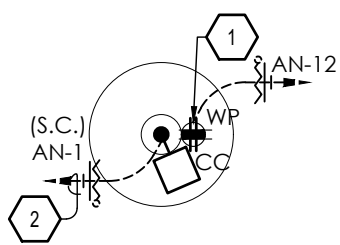
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- KEYED NOTES: ELECTRICAL**
- 1 MOUNT ELECTRICAL QUAD OUTLET IN A WEATHER PROOF IN-USE ENCLOSURE ON THE CONCRETE PEDESTAL. COORDINATE EXACT LOCATION PRIOR TO ANY WORK.
 - 2 VIA LIGHTING CONTROL PANEL "LCP1".
 - 3 PROVIDE WEATHER PROOF 4X4 DEEP J-BOX FOR DATA USE. MOUNT TO CONCRETE PEDESTAL. VERIFY EXACT LOCATION OF IT ROOM PRIOR TO ANY WORK.
 - 4 PROVIDE (1)-2" C WITH PULL STRING FROM DATA OUTLET TO EXISTING IT ROOM. VERIFY EXACT LOCATION OF IT ROOM PRIOR TO ANY WORK.



1 **ELECTRICAL PLAN**
1/4"=1'-0"



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SHEET TITLE:
ELECTRICAL PLAN

PROJECT: PORT OF BROWN SVILLE
ANCHOR PARK
OWNER: BROWN SVILLE NAVIGATION DISTRICT
PORT OF BROWN SVILLE
BROWN SVILLE, TEXAS



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