

# CITY OF MIAMI BEACH - 5TH STREET BAYWALK PEDESTRIAN CONNECTOR BRIDGE



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LAND DESCRIPTION: (BLOCK 500)

LOTS 2 THROUGH 16, INCLUSIVE, A PORTION OF LOTS 1, 17, 18 AND 19 AND THAT CERTAIN 15 FOOT VACATED ALLEY LYING WITHIN SAID LOTS, OF "AMENDED PLAT OF AQUARIUM SITE RESUBDIVISION", ACCORDING TO THE PLAT THEREOF, AS RECORDED IN PLAT BOOK 21, PAGE 83, OF THE PUBLIC RECORDS OF MIAMI-DADE COUNTY, FLORIDA, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEGIN AT THE NORTHWEST CORNER OF SAID LOT 11;

THENCE NORTH 89°37'30" EAST ALONG THE NORTH LINES OF SAID LOTS 10 AND 11, A DISTANCE OF 210.00 FEET TO A POINT ON A TANGENT CURVE CONCAVE TO THE SOUTHWEST;

THENCE SOUTHEASTERLY ALONG THE ARC OF SAID CURVE, HAVING A RADIUS OF 20.00 FEET, A CENTRAL ANGLE OF 89°59'39" AND AN ARC DISTANCE OF 31.41 FEET;

THENCE SOUTH 00°22'51" EAST ALONG THE EAST LINE OF SAID LOTS 1 THROUGH 10, A DISTANCE OF 277.46 FEET TO A POINT ON A TANGENT CURVE CONCAVE TO THE NORTHWEST;

THENCE SOUTHWESTERLY ALONG THE ARC OF SAID CURVE, HAVING A RADIUS OF 65.5 FEET, A CENTRAL ANGLE OF 87°00'49" AND AN ARC DISTANCE OF 99.47 FEET;

THENCE SOUTH 86°38'28" EAST, A DISTANCE OF 112.67 FEET TO A POINT ON A NON-TANGENT CURVE (A RADIAL LINE THROUGH SAID POINT BEARS SOUTH 19°33'06" WEST);

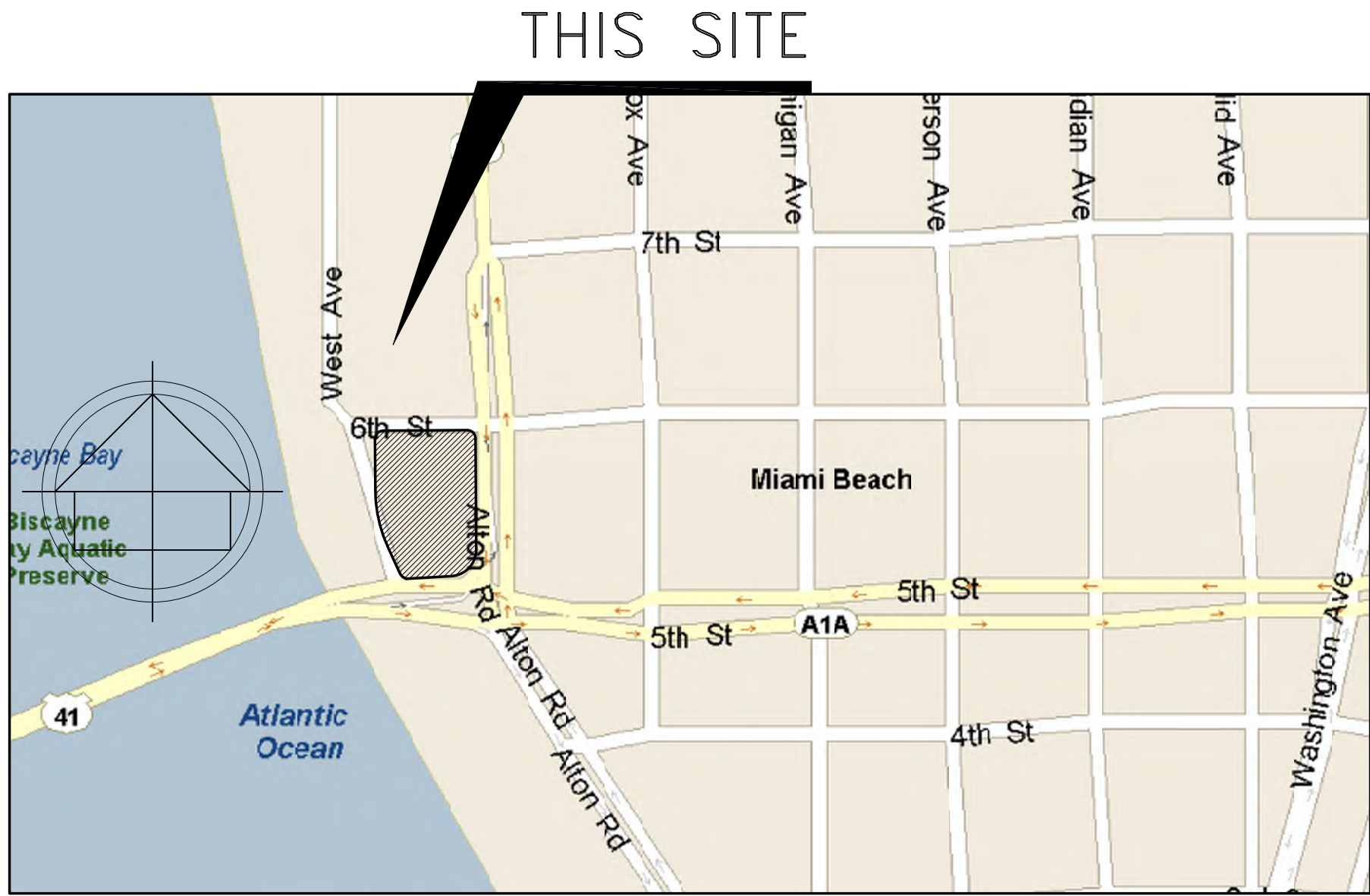
THENCE NORTHWESTERLY ALONG THE ARC OF SAID CURVE, HAVING A RADIUS OF 29.30 FEET, A CENTRAL ANGLE OF 46°06'19" AND AN ARC DISTANCE OF 23.58 FEET;

THENCE NORTH 24°20'35" WEST ALONG THE WESTERLY LINE OF SAID LOTS 17 AND 16, A DISTANCE OF 73.04 FEET TO A POINT ON A TANGENT CURVE CONCAVE TO THE EAST;

THENCE NORTHERLY ALONG THE ARC OF SAID CURVE, HAVING A RADIUS OF 335.75 FEET, A CENTRAL ANGLE OF 23°57'44" AND AN ARC DISTANCE OF 140.42 FEET (THE LAST DESCRIBED BARING AND DISTANCE IF BEING ALONG THE WEST LINE OF SAID LOTS 16, 15 AND 14);

THENCE NORTH 00°22'51" WEST ALONG THE WEST LINE OF SAID LOTS 13, 12 AND 11, A DISTANCE OF 130.00 FEET TO A POINT ON A TANGENT CURVE CONCAVE TO THE SOUTHEAST;

THENCE NORTHEASTERLY ALONG THE ARC OF SAID CURVE HAVING A RADIUS OF 20.00 FEET, A CENTRAL ANGLE OF 90°00'21" AND AN ARC DISTANCE OF 31.42 FEET TO THE POINT OF BEGINNING.



## LOCATION MAP (NTS)

500 BLOCK AREA = 85,180 SQ. FT.

NOTES :

- NOT VALID WITHOUT THE SIGNATURE AND THE ORIGINAL RAISED SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER.
- THE CERTIFICATION SHOWN HEREON TO THE EXTENT RELATING TO THE EXISTENCE OF EASEMENTS AND/OR RIGHTS-OF-WAY OF RECORD IS BASED UPON COMMITMENT FOR TITLE INSURANCE ISSUED BY CHICAGO TITLE INSURANCE COMPANY ORDER NO. : 4172842, EFFECTIVE DATE : JULY 09, 2014.
- THIS SURVEY WAS DONE SOLELY FOR BOUNDARY PURPOSES AND DOES NOT DEPICT THE JURISDICTION OF ANY MUNICIPAL, STATE, FEDERAL OR OTHER ENTITIES.
- THE LAND DESCRIPTION SHOWN HEREON WAS PROVIDED BY THE CLIENT.
- UNDERGROUND IMPROVEMENTS NOT SHOWN.
- ELEVATIONS SHOWN HEREON ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988.
- BENCHMARK REFERENCE : MIAMI/DADE COUNTY BENCHMARK # D-151 ELEVATION=3.72' (NGVD29) 2.16' (NAVD88)
- BEARINGS SHOWN HEREON ARE BASED ON THE DEED.

PER THE CITY OF MIAMI BEACH :  
GRADE : 4.46' (NGVD 1929)  
BASE FLOOD : 8.00' (NGVD 1929)  
ADJUSTED GRADE : 6.23' (NGVD 1929)

ZONING: CD-2 FRONT SIDE INTERIOR SIDE FACING STREET REAR  
SUBTERRANEAN 0 FEET 0 FEET 0 FEET 0 FEET

### EXISTING TREE SURVEY (ON SITE)

TREE NO. ON SURVEY	SPECIES		TRUNK DIA. AT BREAST HEIGHT	# OF TRUNKS	TREE HEIGHT FEET	CANOPY SPREAD FT2	CANOPY (SF)	COND.
	COMMON NAME	SCIENTIFIC NAME	INCHES					
1	PALM		18					
2	SCHEFFLERA		4					
3	PALM		10					
4	PALM		10					
5	PALM		14					
6	EARLEAF ACACIA		10					
7	GRAPE MYRTLE		14					
8	PALM		18					
9	EARLEAF ACACIA		12					
10	EARLEAF ACACIA		12					
11	PALM		8					
12	PALM		8					
13	PALM		10					
14	EARLEAF ACACIA		10					
15	PALM		8					
16	PALM		17					
17	PONGAM		10					
18	PONGAM		10					
19	PONGAM		10					
20	GRAPE MYRTLE		8					
21	PALM		18					
22	PALM		10					
23	PONGAM		10					
24	PONGAM		10					
25	PONGAM		10					
26	EARLEAF ACACIA		18					
27	PONGAM		12					
28	PONGAM		12					
29	PONGAM		8					
30	PONGAM		8					
31	PONGAM		10					
32	PONGAM		18					
33	PALM		18					
34	PALM		18					
35	GRAPE MYRTLE		6					
36	PALM		18					
37	GRAPE MYRTLE		4					
38	PALM		18					
39	GRAPE MYRTLE		6					
40	GRAPE MYRTLE		6					
41	PALM		18					
42	GRAPE MYRTLE		6					
43	PONGAM		8					
44	PONGAM		8					
45	PONGAM		12					
46	PONGAM		12					
47	PONGAM		12					
48	PONGAM		18					
49	PONGAM		8					
50	PONGAM		6					
51	PONGAM		12					
52	PALM		10					
53	PALM		10					
54	PALM		10					
55	PALM		10					
56	PALM		10					
57	EARLEAF ACACIA		18					
58	EARLEAF ACACIA		10					
59	EARLEAF ACACIA		14					
60	PALM		10					
61	PALM		10					
62	PALM		10					
63	PALM		10					
64	PALM		10					
65	PALM		10					
66	PALM		10					
67	OAK		6					
68	OAK		6					
69	OAK		6					
70	OAK		6					
71	BLACK OLIVE		14					
72	PALM		8					
73	PALM		8					
74	PALM		8					
75	PALM		8					
76	PALM		8					
77	PALM		8					
78	PALM		8					

### EXISTING TREE SURVEY (OFF SITE)

TREE NO. ON SURVEY	SPECIES		TRUNK DIA. AT BREAST HEIGHT	# OF TRUNKS	TREE HEIGHT FEET	CANOPY SPREAD FT2	CANOPY (SF)	COND.
	COMMON NAME	SCIENTIFIC NAME	INCHES					
1	PALM		10					
2	PALM		10					
3	PALM		10					
4	TWIN PALM		8					
5	TWIN PALM		10					
6	GUMBO LIMBO		4					
7	PALM		13					
8	TWIN PALM		8					
9	GUMBO LIMBO		4					
10	PALM		14					
11	TWIN PALM		6					
12	GUMBO LIMBO		2					
13	GUMBO LIMBO		2					
14	PALM		6					
15	PALM		6					
16	TWIN PALM		8					
17	TWIN PALM		10					
18	TWIN PALM		6					
19	PALM		6					
20	TWIN PALM		6					
21	PALM		5					
22	PALM		18					
23	PALM		18					
24	PALM		18					
25	PALM		18					
26	PALM		18					
27	PALM		18					
28	PALM		18					
29	PALM		18					
30	PALM		18					
31	PALM		18					
32	OAK		17					
33	PALM		17					
34	OAK		17					
35	PALM		8					
36	OAK		4					
37	PALM		18					
38	OAK		18					
39	PALM		8					
40	OAK		8					
41	OAK		20					
42	OAK		5					
43	PALM		18					
44	PALM		18					
45	PALM		18					
46	PALM		18					
47	PALM		16					
48	PALM		16					
49	PALM		16					
50	PALM		16					
51	PALM		16					
52	PALM		10					
53	PALM		10					
54	PALM		10					
55	PALM		10					
56	PALM		10					

### LEGEND:

CKD CHECKED BY  
CONC CONCRETE  
DWN DRAWN BY  
FB/PG FIELD BOOK AND PAGE  
SIR SET 5/8" IRON ROD & CAP #6448  
SNC SET NAIL AND CAP #6448  
FIR FOUND IRON ROD  
FIP FOUND IRON PIPE  
CR CABLE RISER  
GEN. GENERATOR  
FNC FOUND NAIL AND CAP  
FND FOUND NAIL & DISC  
P.B. PLAT BOOK  
-X- CHAIN LINK/ WOOD FENCE  
CBS CONCRETE BLOCK STRUCTURE  
A/C AIR CONDITIONER  
B.C.R. BROWARD COUNTY RECORDS  
ORB OFFICIAL RECORDS BOOK  
BFP BACK FLOW PREVENTER  
R RADIUS  
Δ DELTA ANGLE  
A ARC DISTANCE  
M/D.C.R. MIAMI/DADE COUNTY RECORDS  
TYP TYPICAL  
POB POINT OF BEGINNING  
4.07 ELEVATIONS  
-E- OVERHEAD UTILITY LINES  
POB POINT OF BEGINNING  
WM WATER METER  
TSB TRAFFIC SIGNAL BOX  
TSP TRAFFIC SIGNAL POLE  
MLP METAL LIGHT POLE  
(C) CALCULATED  
(D) DEED  
WPP WOOD POWER POLE  
WLP WOOD LIGHT POLE  
EB ELECTRIC BOX  
SQ. FT. SQUARE FEET  
SCHEF SCHEFFLERA TREE  
① ON SITE TREE NUMBERS  
⚠ OFF SITE TREE NUMBERS  
COND. CONDITION

CERTIFIED TO:

THE SCHOOL BOARD OF MIAMI-DADE COUNTY, FLORIDA AND WALTER J. HARVEY  
SCHOOL BOARD ATTORNEY AND HIS SUCCESSORS IN OFFICE

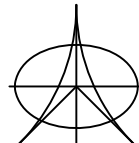
I HEREBY CERTIFY THAT THE "SKETCH OF SURVEY" OF THE HEREON DESCRIBED PROPERTY IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AS SURVEYED IN THE FIELD UNDER MY DIRECTION IN FEBRUARY, 2019. I FURTHER CERTIFY THAT THIS SURVEY MEETS THE MINIMUM TECHNICAL STANDARDS FOR SURVEYING IN THE STATE OF FLORIDA ACCORDING TO CHAPTER 5J-17 OF THE FLORIDA ADMINISTRATIVE CODE. PURSUANT TO SECTION 472.027, FLORIDA STATUTES. THERE ARE NO ABOVE GROUND ENCROACHMENTS OTHER THAN THOSE SHOWN HEREON, SUBJECT TO THE QUALIFICATIONS NOTED HEREON.

FOR THE FIRM, BY: -----

SURVEY DATE : 02/08/19

RICHARD E. COUSINS  
PROFESSIONAL SURVEYOR AND MAPPER  
FLORIDA REGISTRATION NO. 4188

### COUSINS SURVEYORS & ASSOCIATES, INC.



3921 SW 47TH AVENUE, SUITE 1011  
DAVIE, FLORIDA 33314  
CERTIFICATE OF AUTHORIZATION : LB # 6448  
PHONE (954) 689-7766 FAX (954) 689-7799

CLIENT :

CRESCENT HEIGHTS

ALTON ROAD  
MIAMI BEACH, FLORIDA

SKETCH OF SURVEY  
(BRIDGE)

R E V I S I O N S				DATE	FB/PG	DWN	CKD
BRIDGE SURVEY				02/22/19	-----	AM	REC

PROJECT NUMBER : 6844-12

SCALE : N/A

SHEET  
1  
OF  
2  
SHEETS

**ARQUITECTONICA**

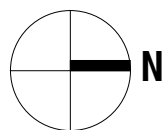
2900 Oak Avenue, Miami, FL 33133  
T 305.372.1812 F 305.372.1175

**LAKES**  
ENGINEERING, INC.

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FINAL DRB SUBMITTAL  
5TH STREET BAYWALK  
PEDESTRIAN CONNECTOR  
BRIDGE  
MIAMI BEACH, FL 33139

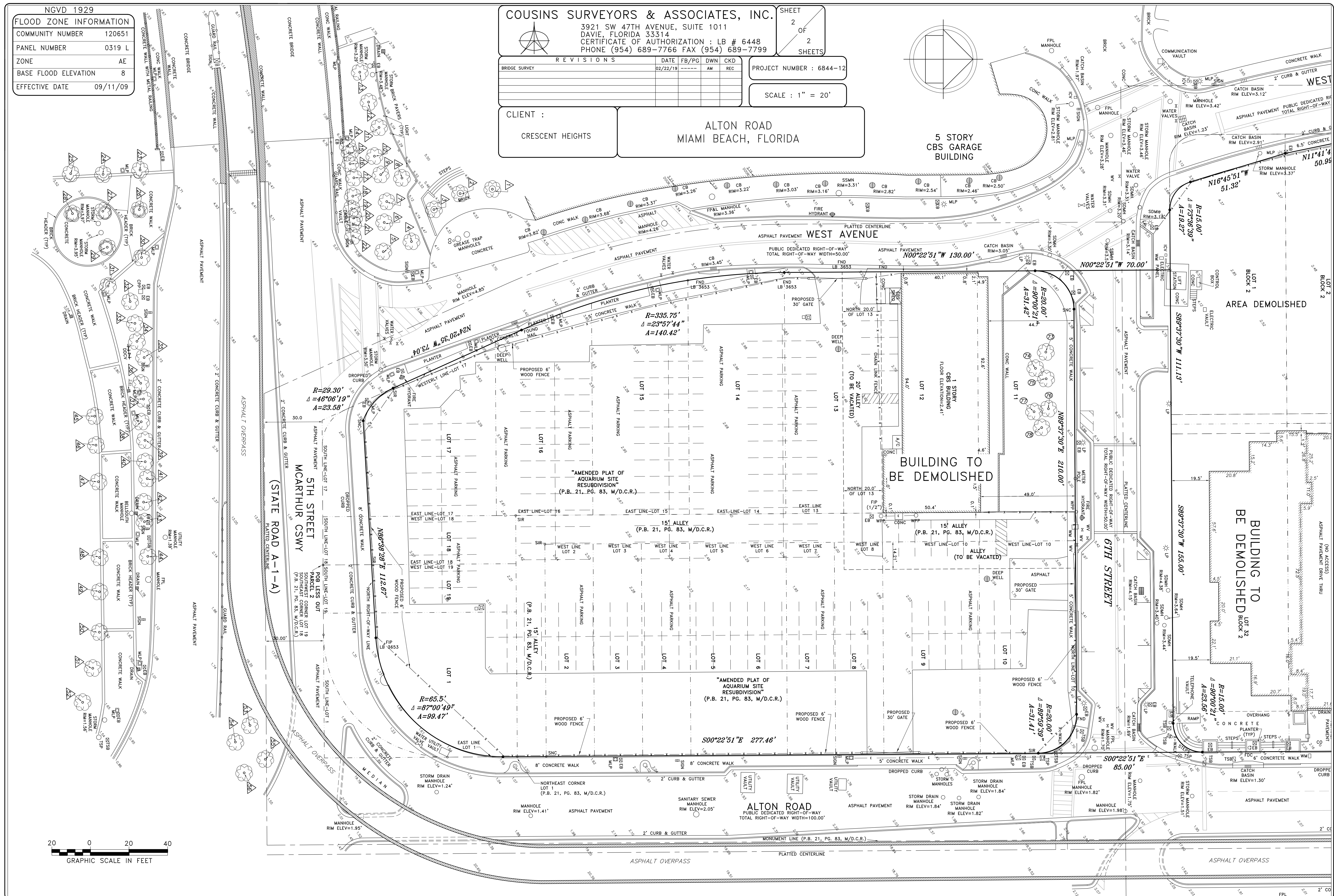
SURVEY



DATE:  
04/08/2019

**A5-01A**





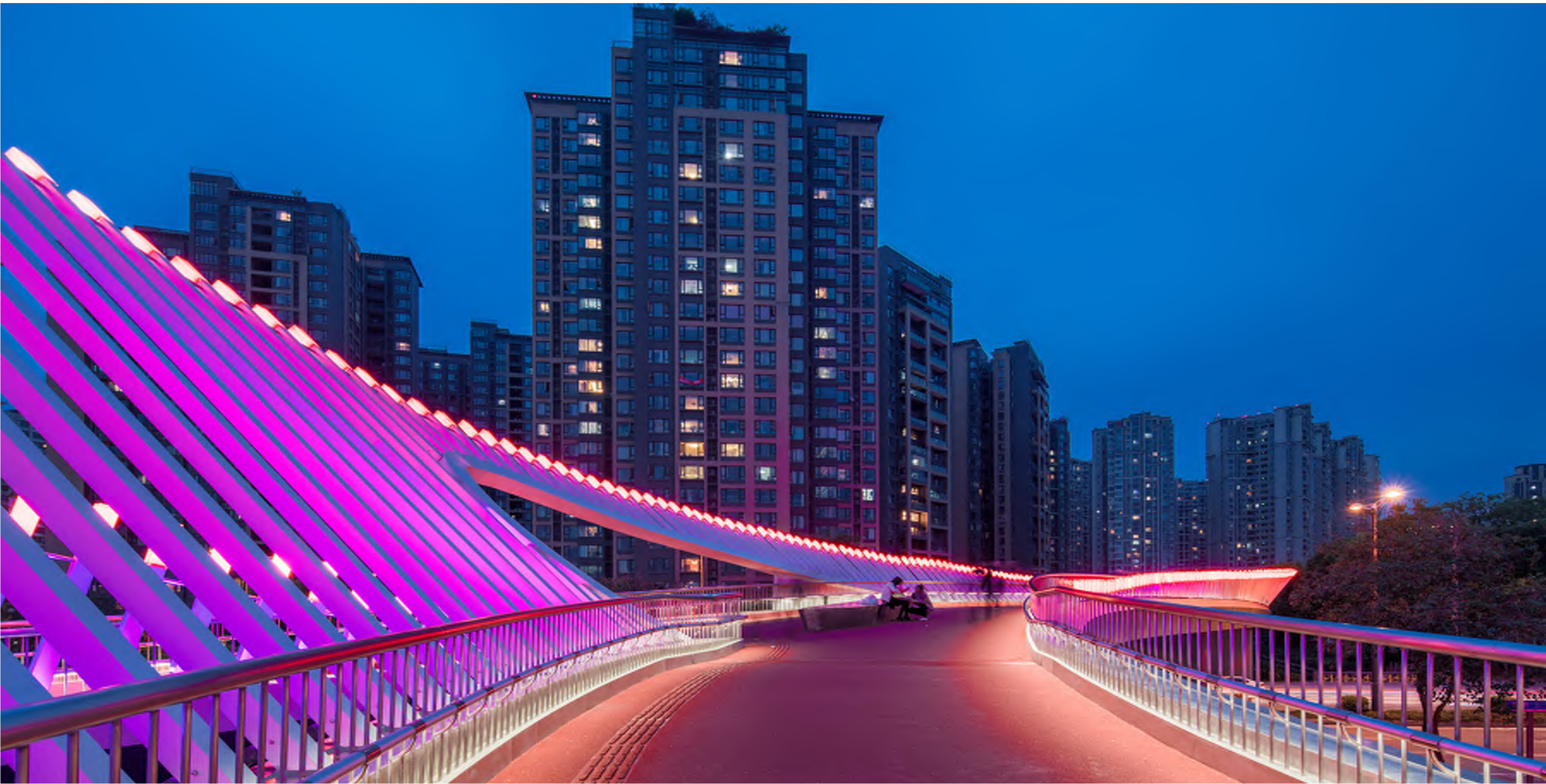






















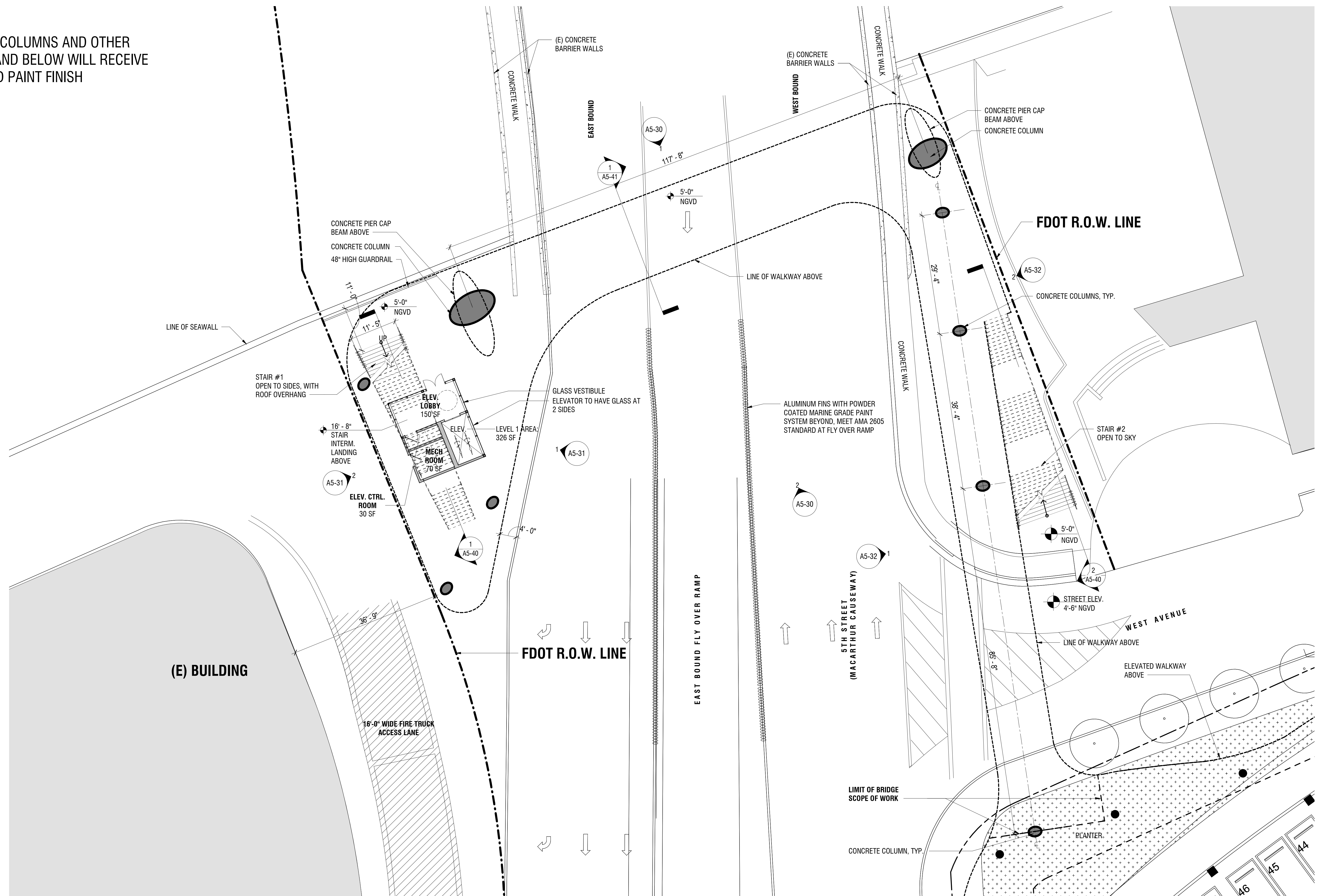








GENERAL NOTE:  
ALL CONCRETE COLUMNS AND OTHER  
SURFACES 10' AND BELOW WILL RECEIVE  
GRAFFITI GUARD PAINT FINISH



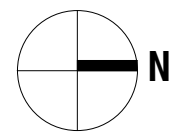
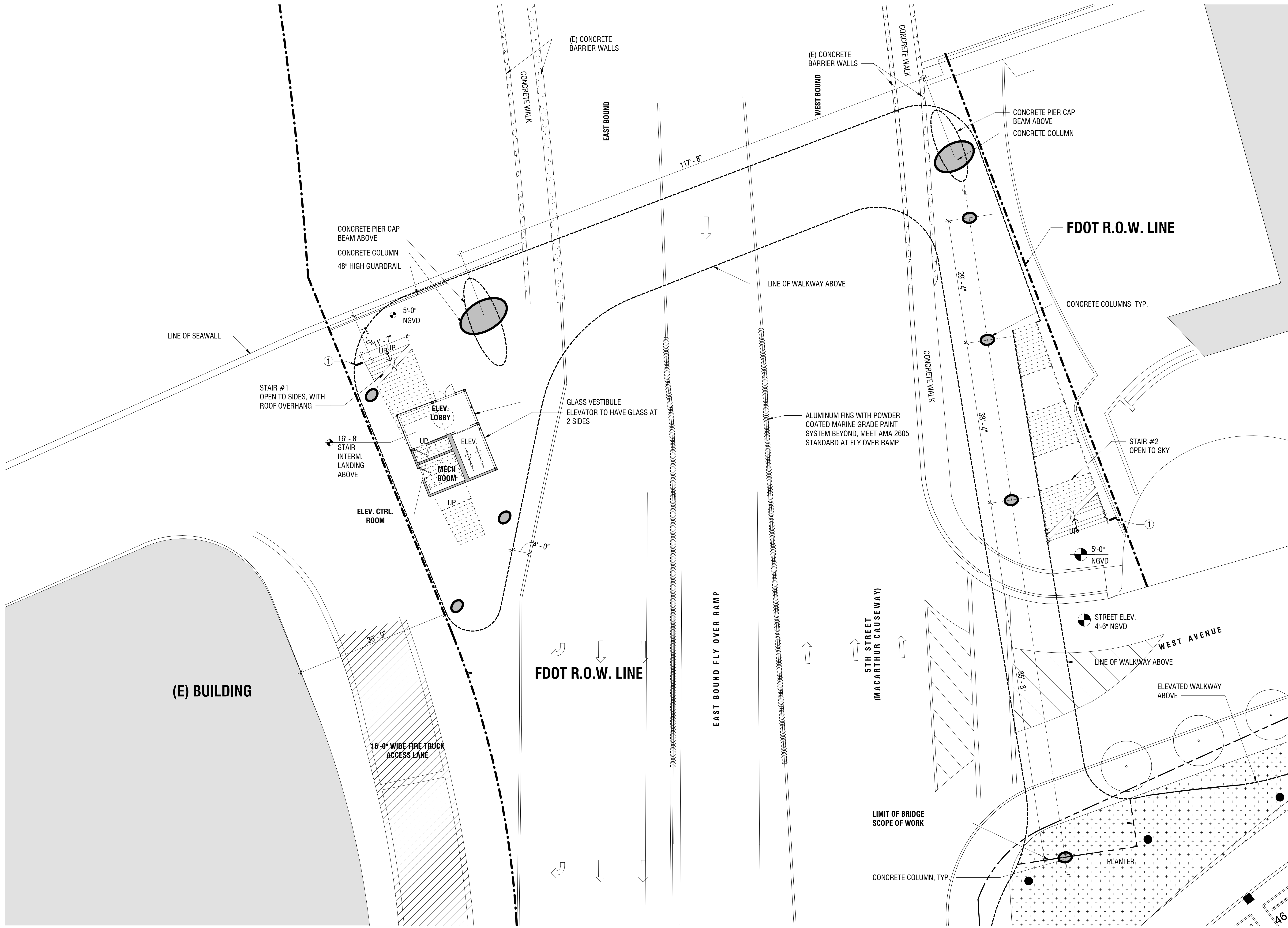


SIGNAGE LEGEND

1 POST MOUNTED SIGN "WALK YOUR BIKE ACROSS BRIDGE"

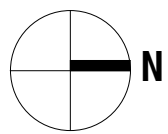
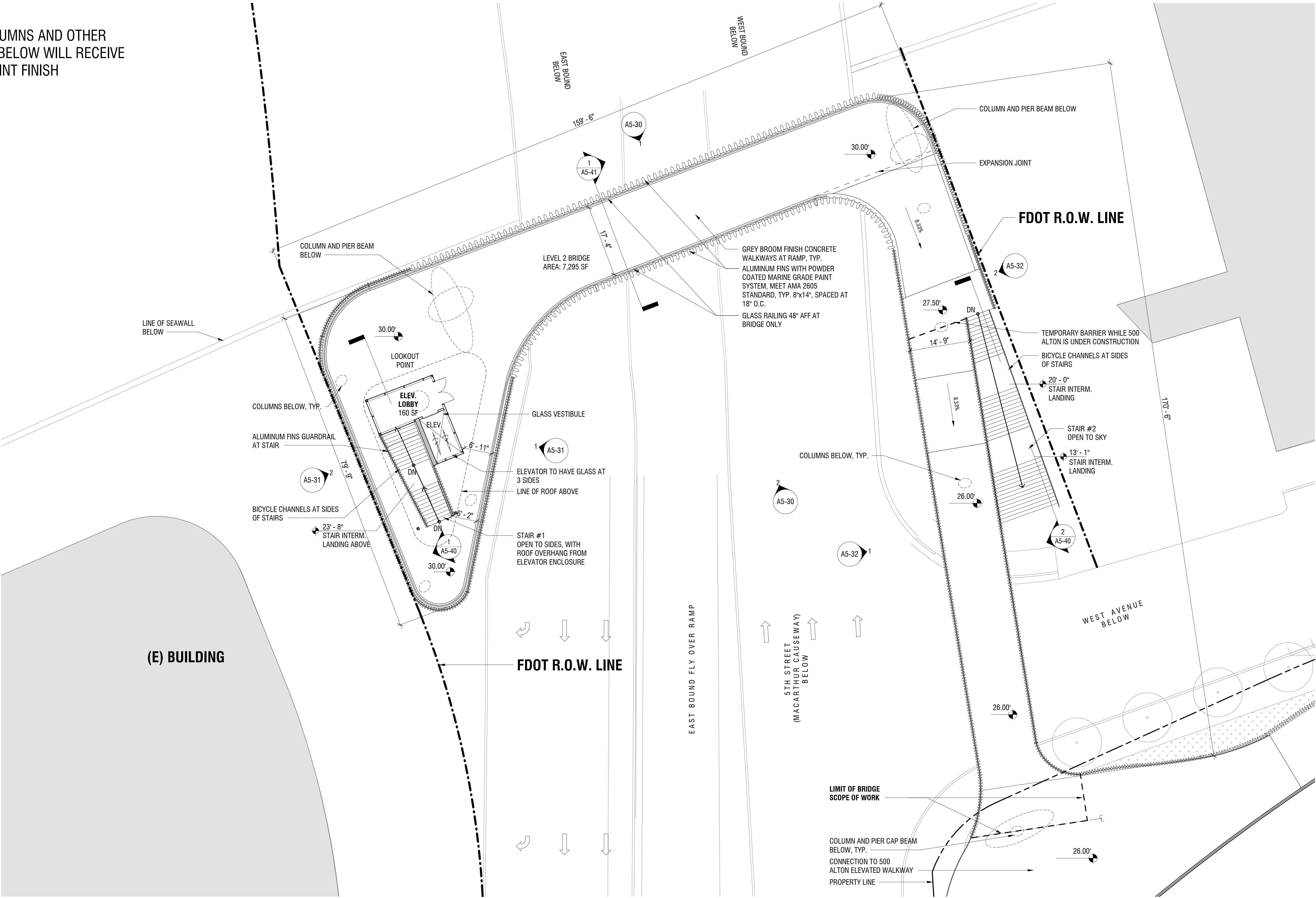


2 COLOR CHANGING PROGRAMMABLE LED LIT LETTERS WITH FUTURA FONT, TO MATCH CITY OF MIAMI BEACH FONT





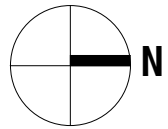
GENERAL NOTE:  
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GRAFFITI GUARD PAINT FINISH





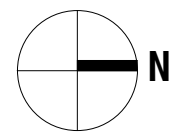
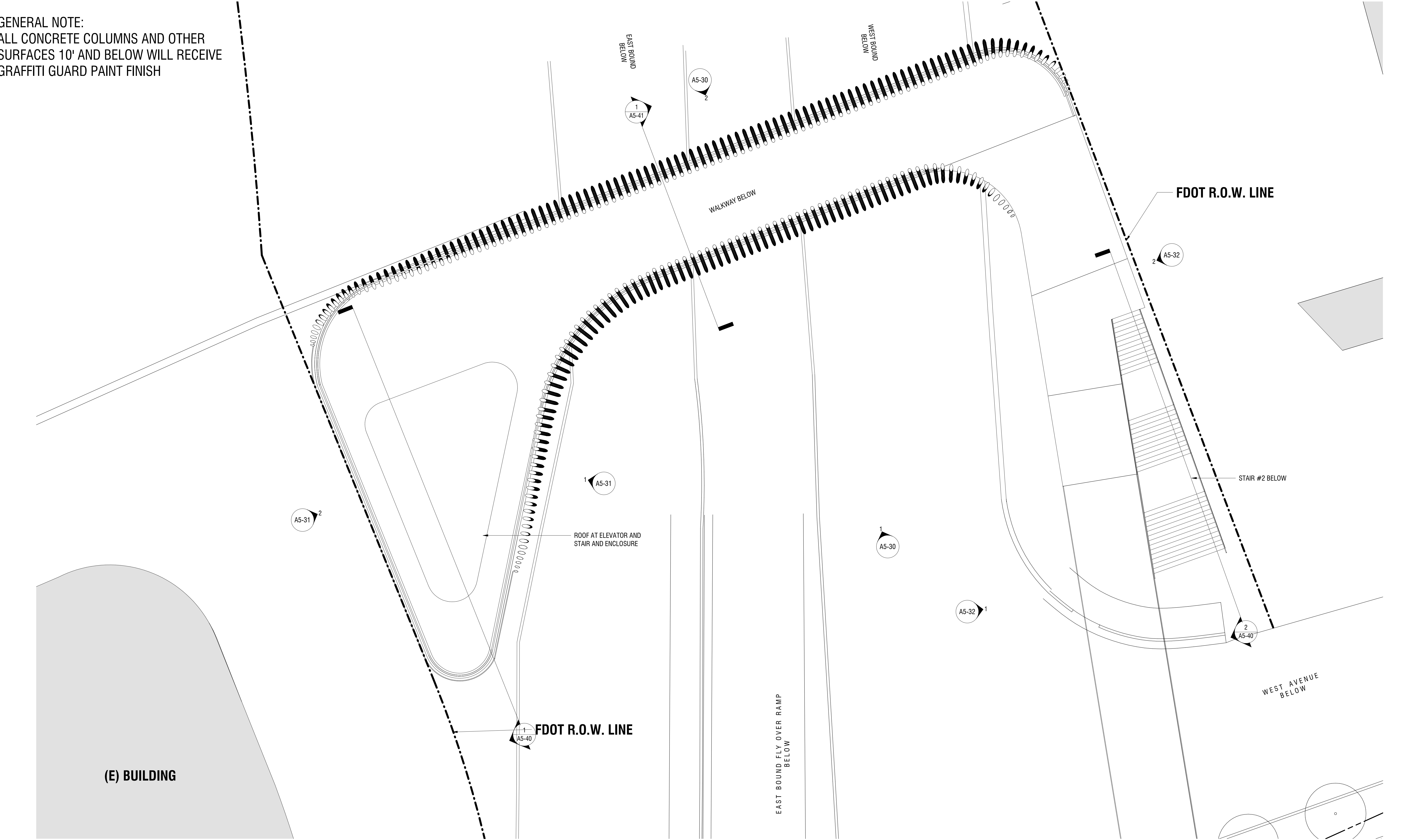




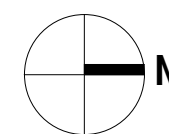
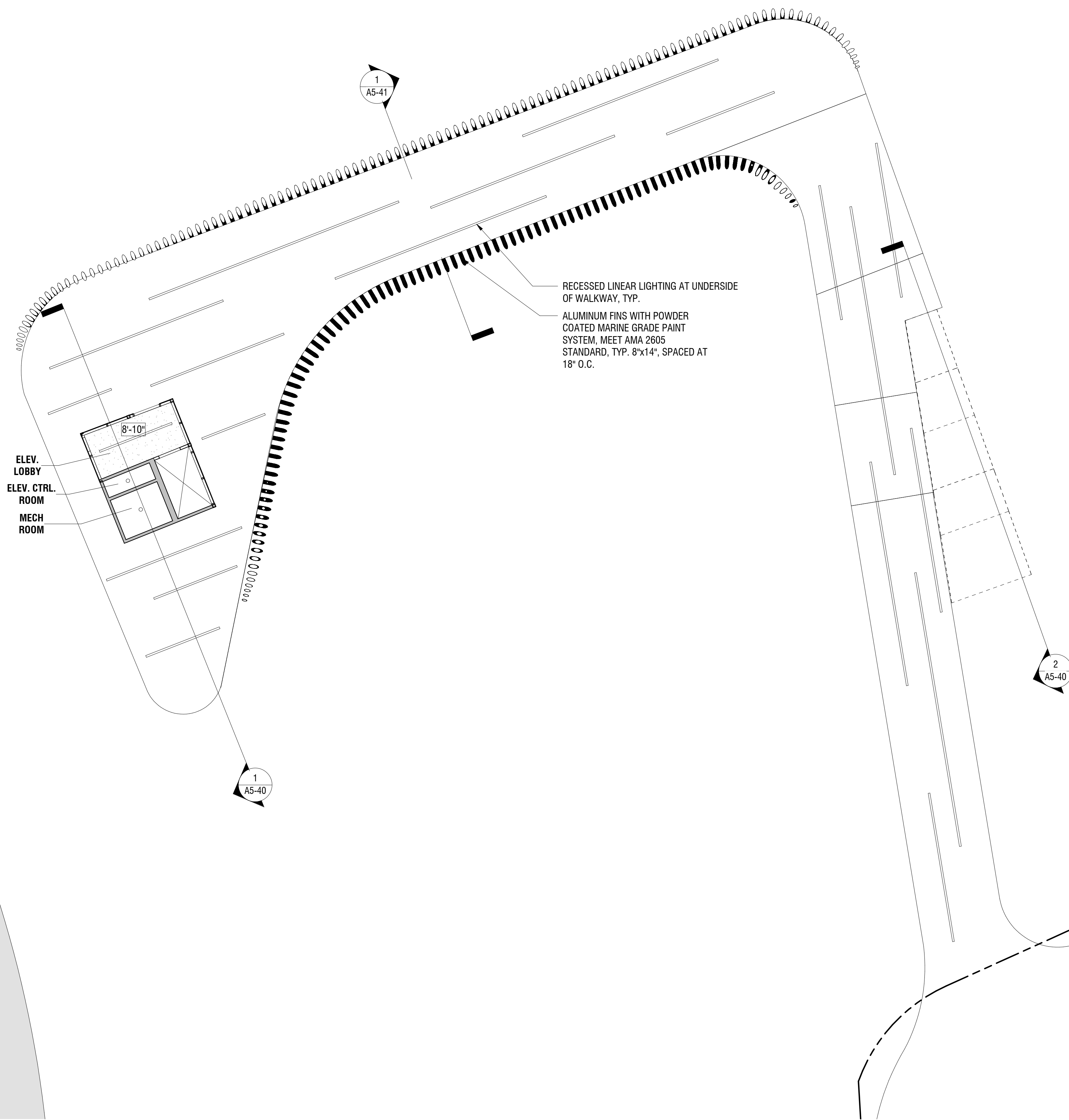




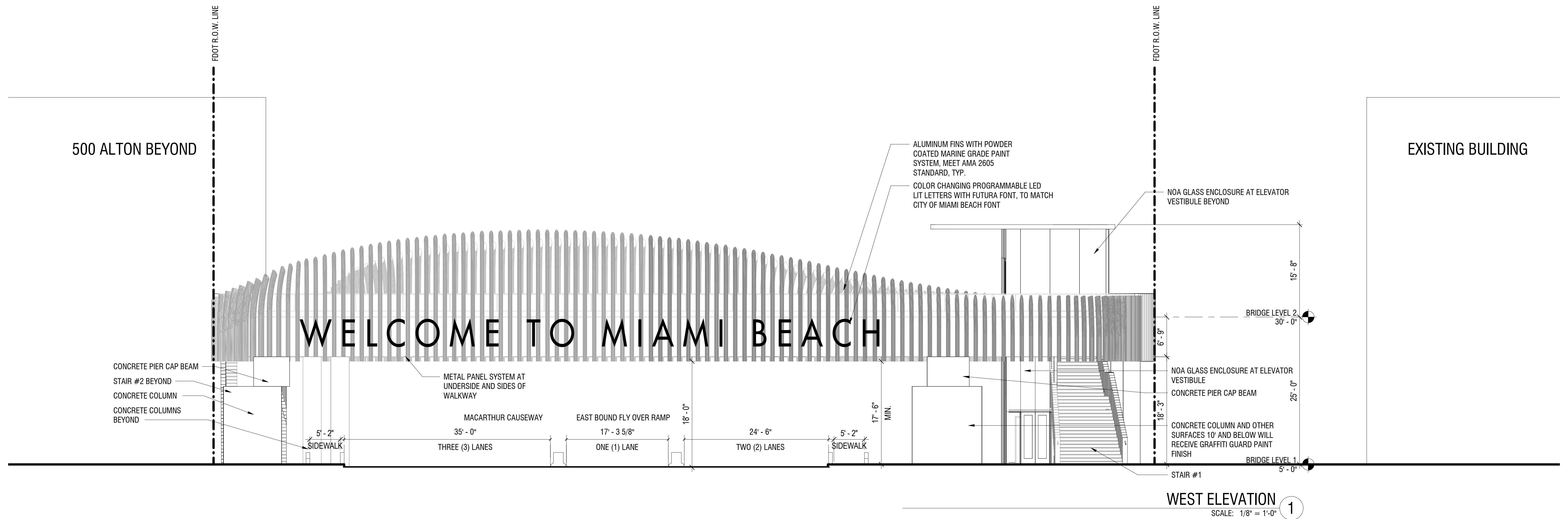
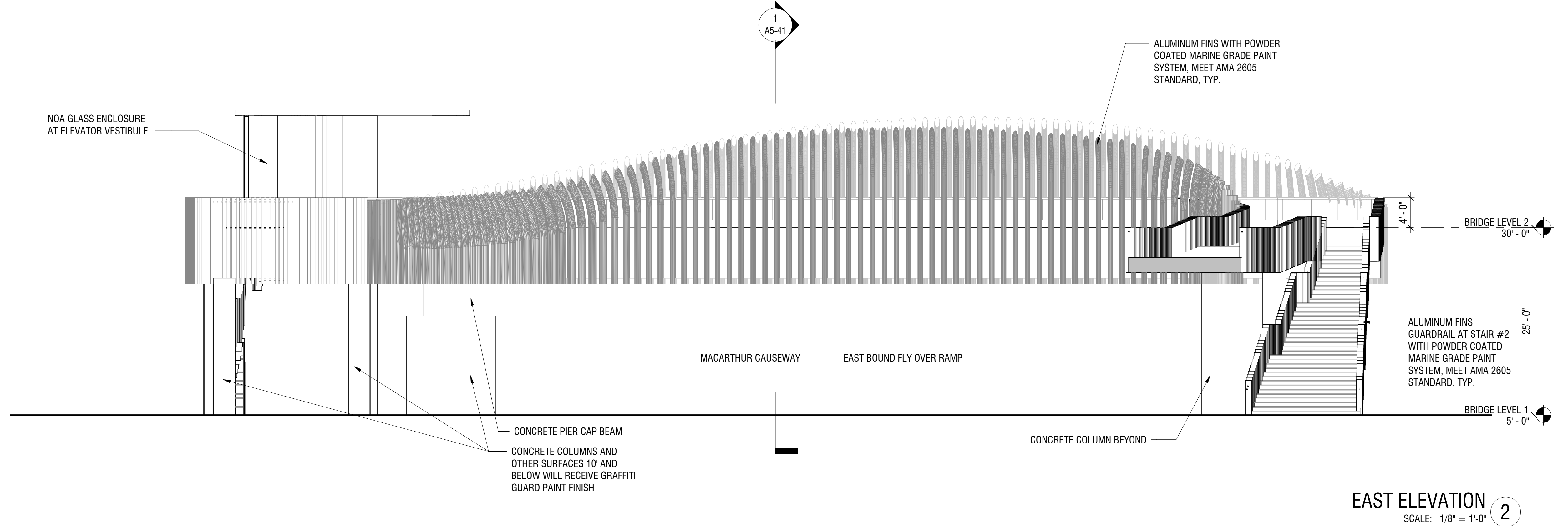
GENERAL NOTE:  
ALL CONCRETE COLUMNS AND OTHER  
SURFACES 10' AND BELOW WILL RECEIVE  
GRAFFITI GUARD PAINT FINISH



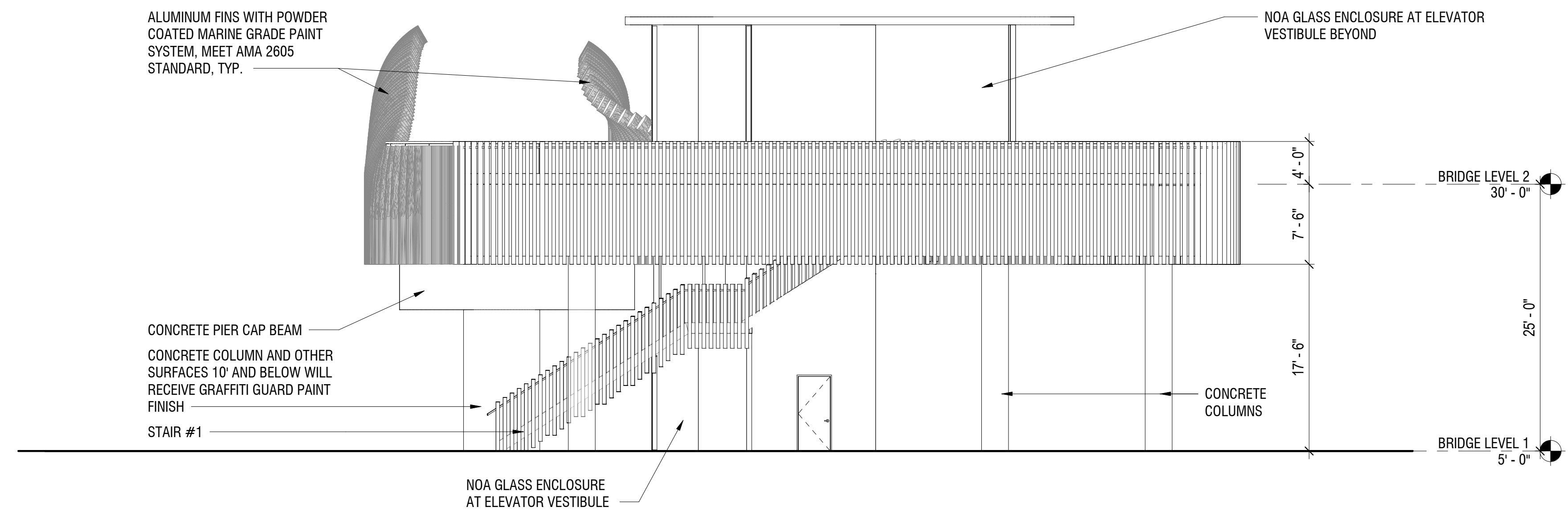




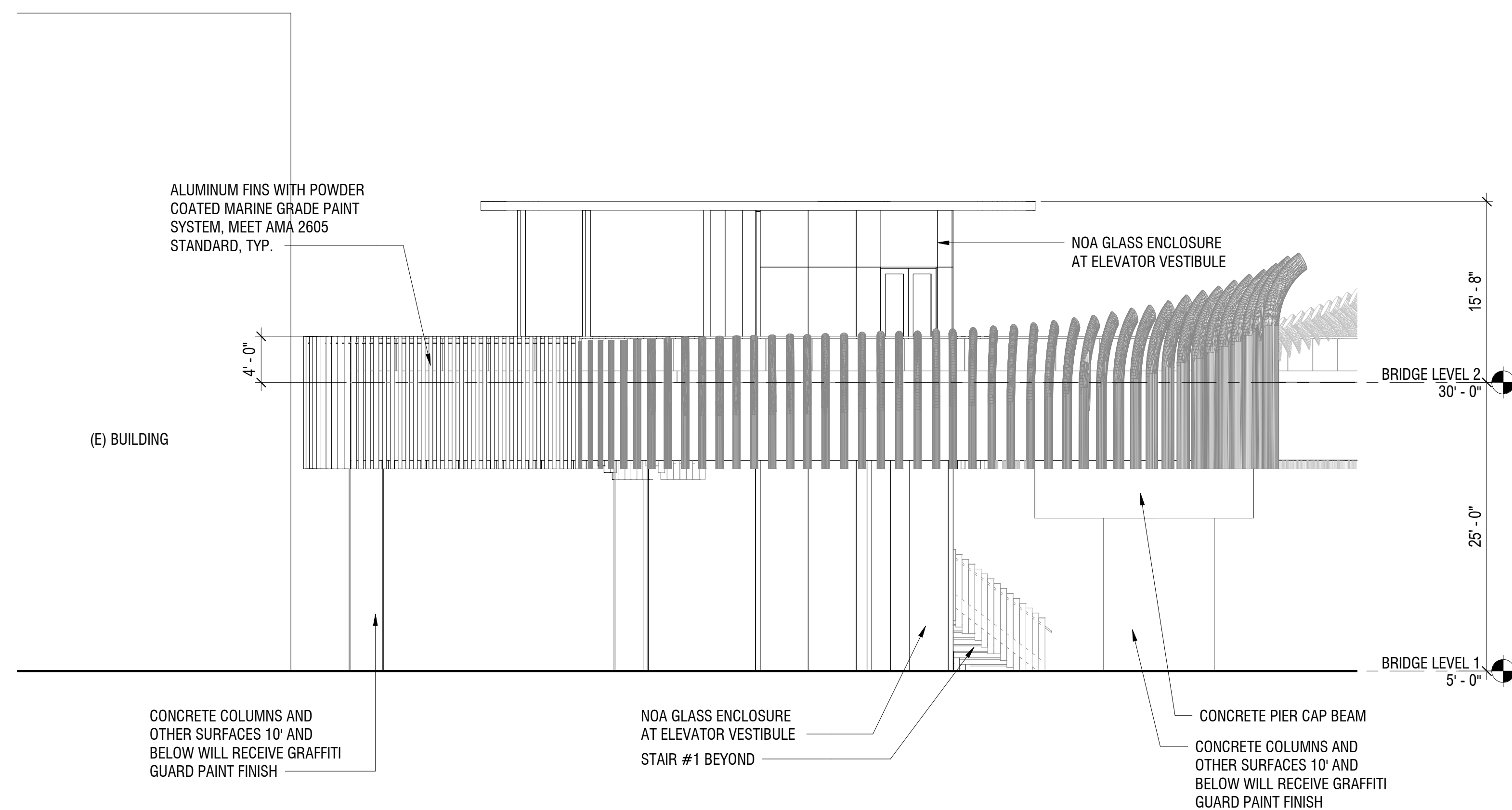






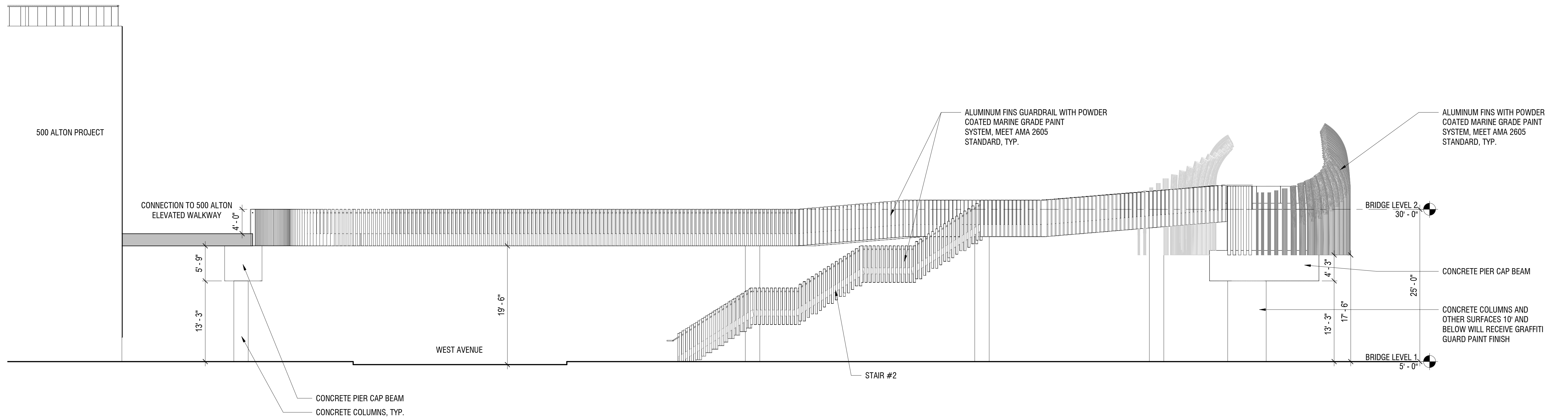


**SOUTH ELEVATION OF STAIR AND ELEVATOR** 2  
SCALE: 1/8" = 1'-0"

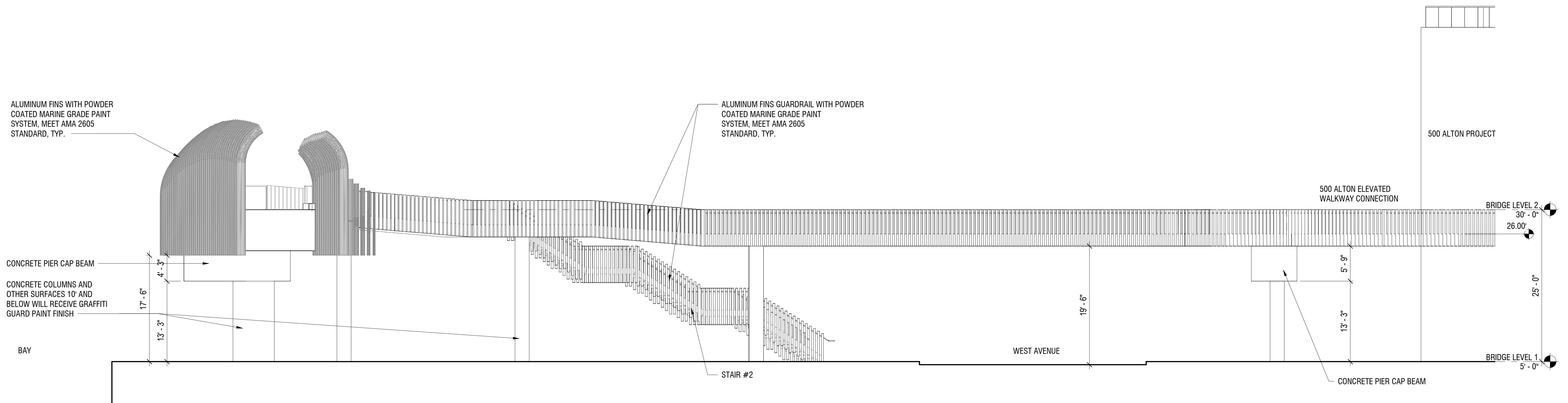


**NORTH ELEVATION OF STAIR AND ELEVATOR** 1  
SCALE: 1/8" = 1'-0"



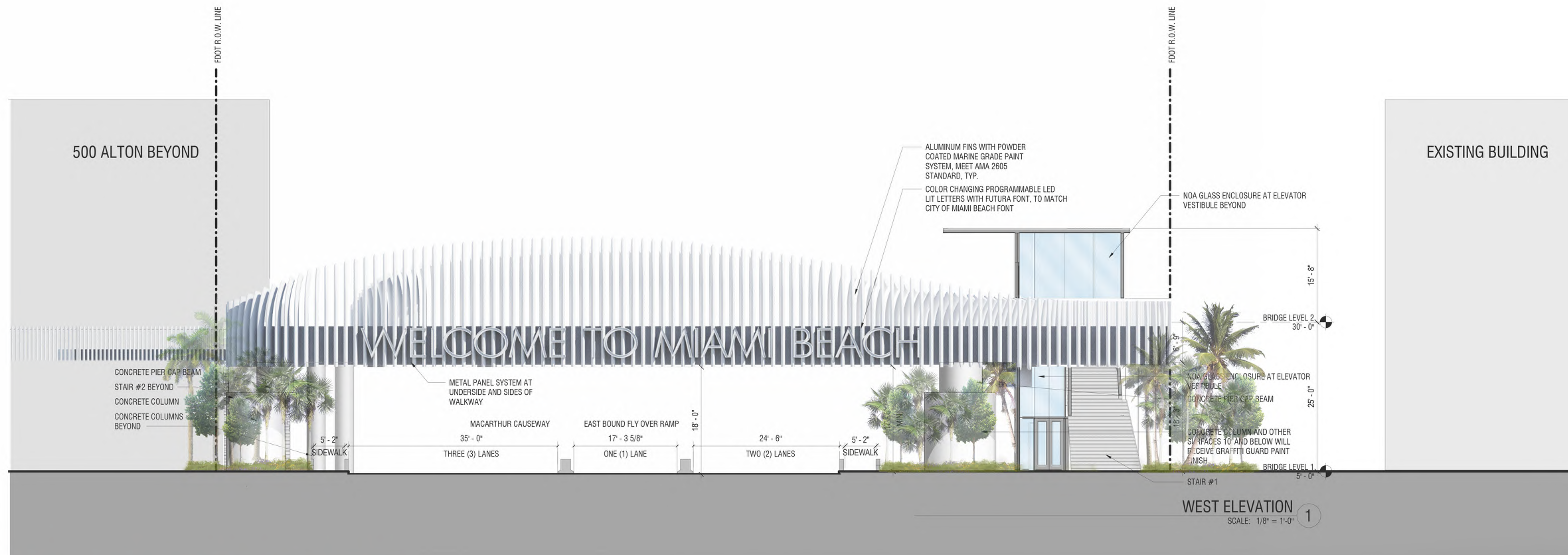
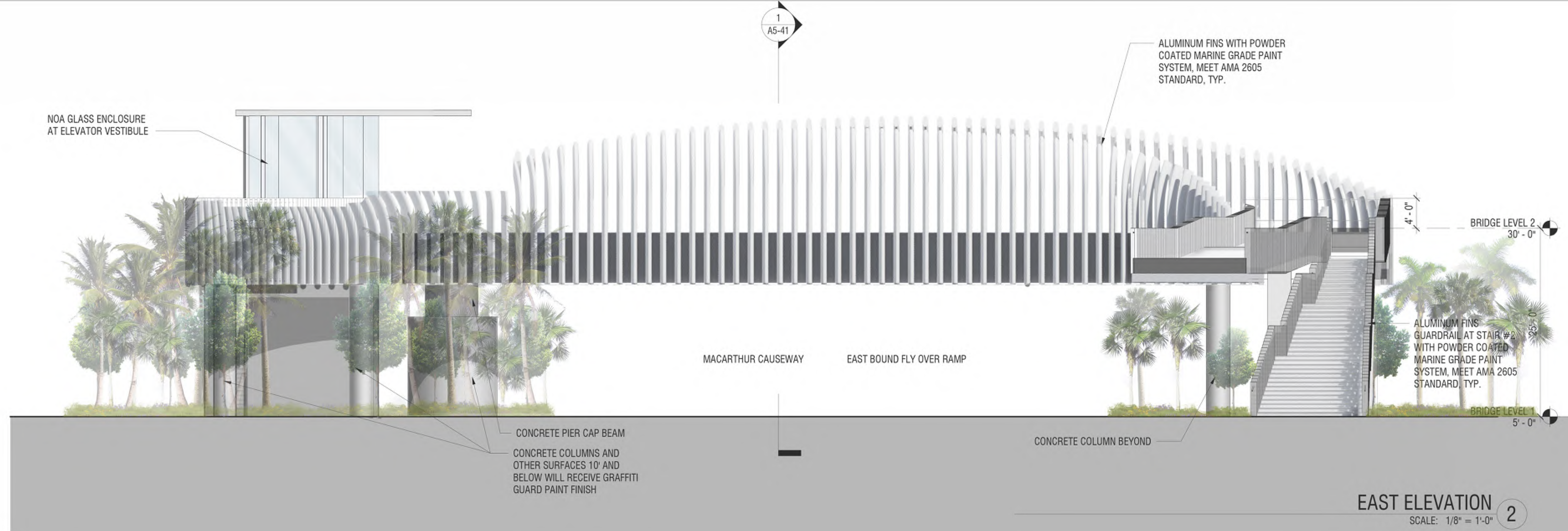


NORTH ELEVATION OF BRIDGE 2  
SCALE: 1/8" = 1'-0"



SOUTH ELEVATION OF BRIDGE 1  
SCALE: 1/8" = 1'-0"

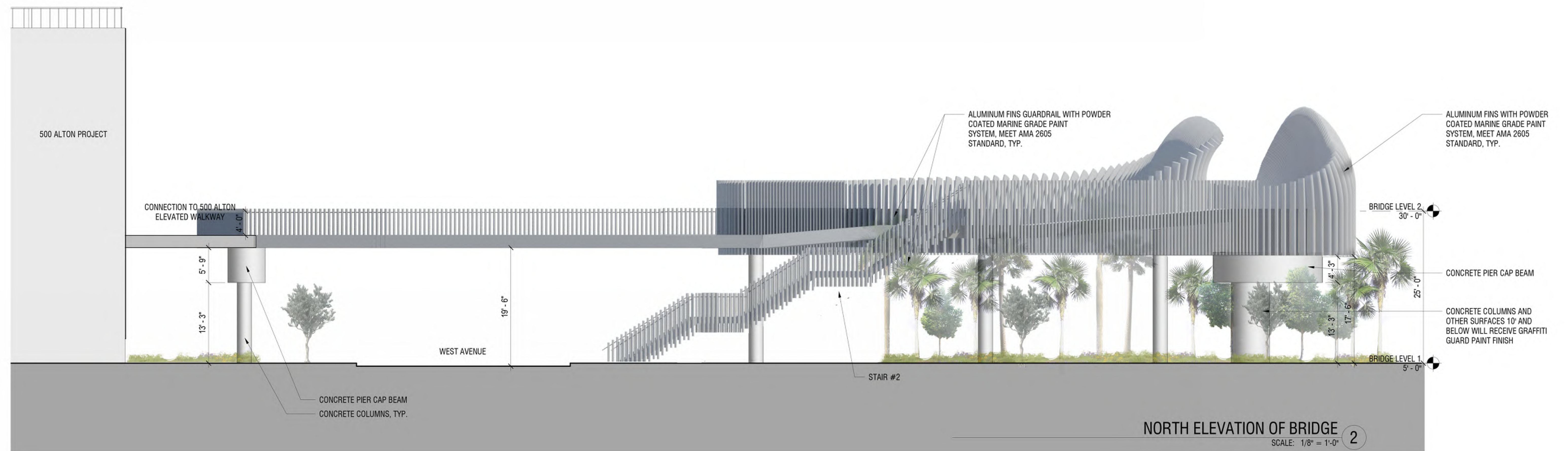




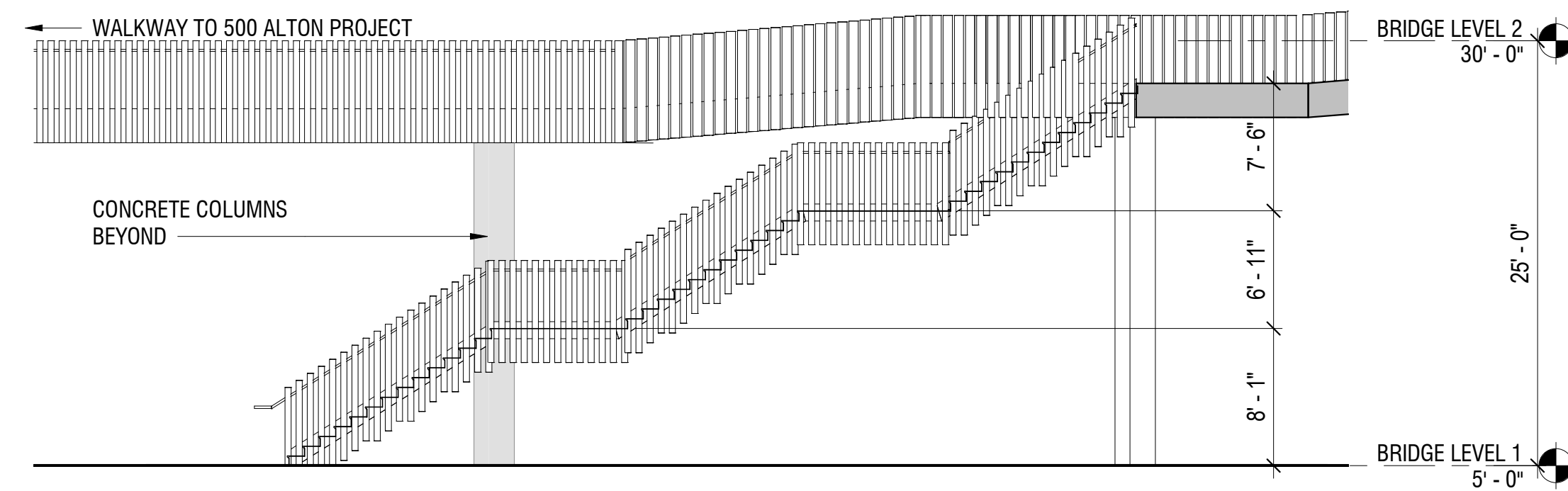




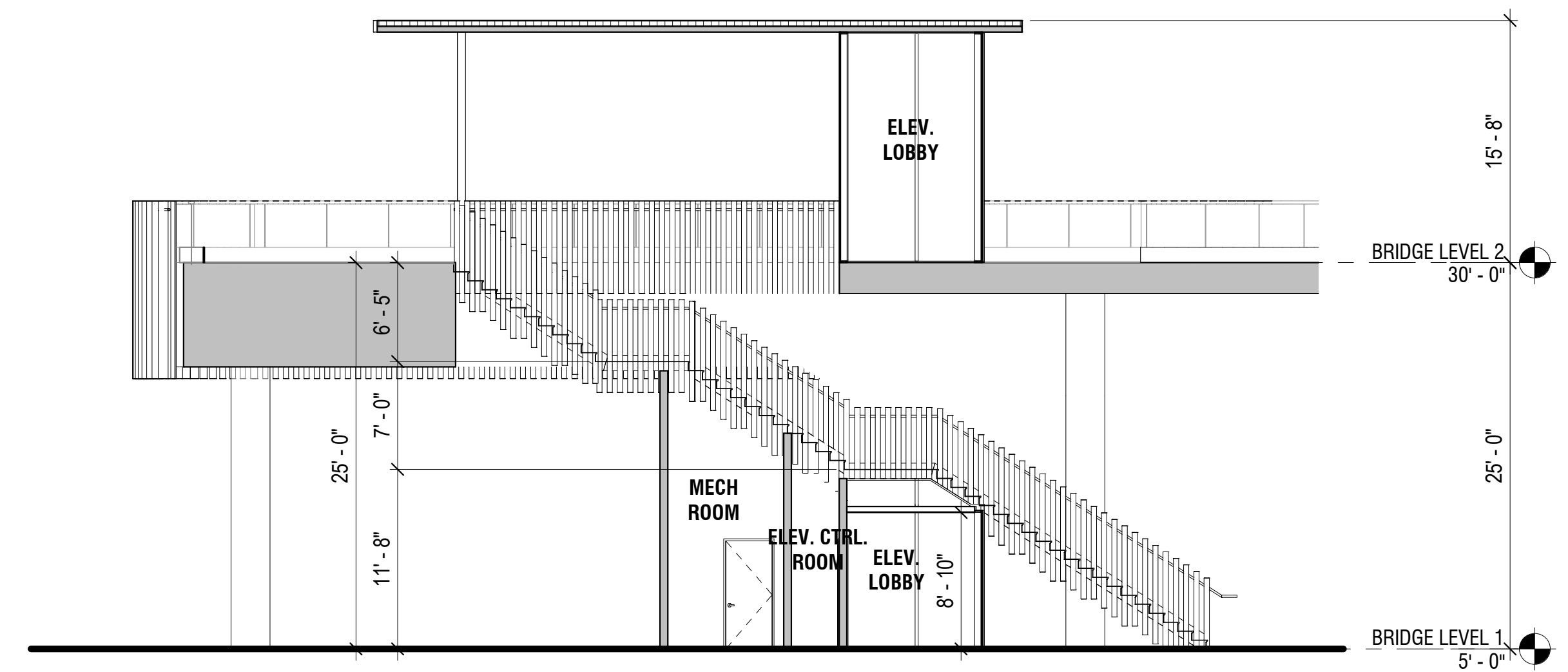






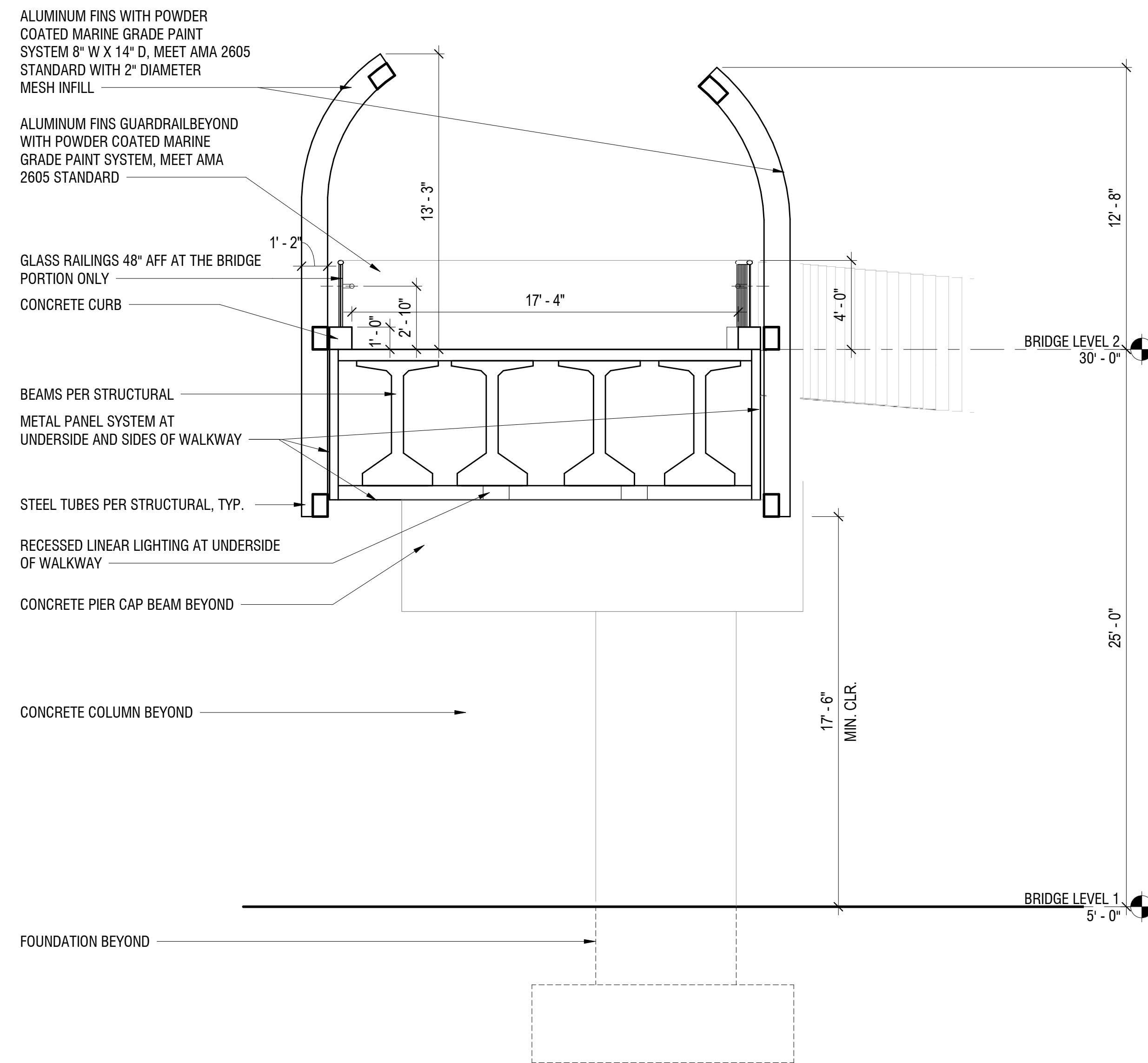


STAIR #2 SECTION 2  
SCALE: 1/8" = 1'-0"

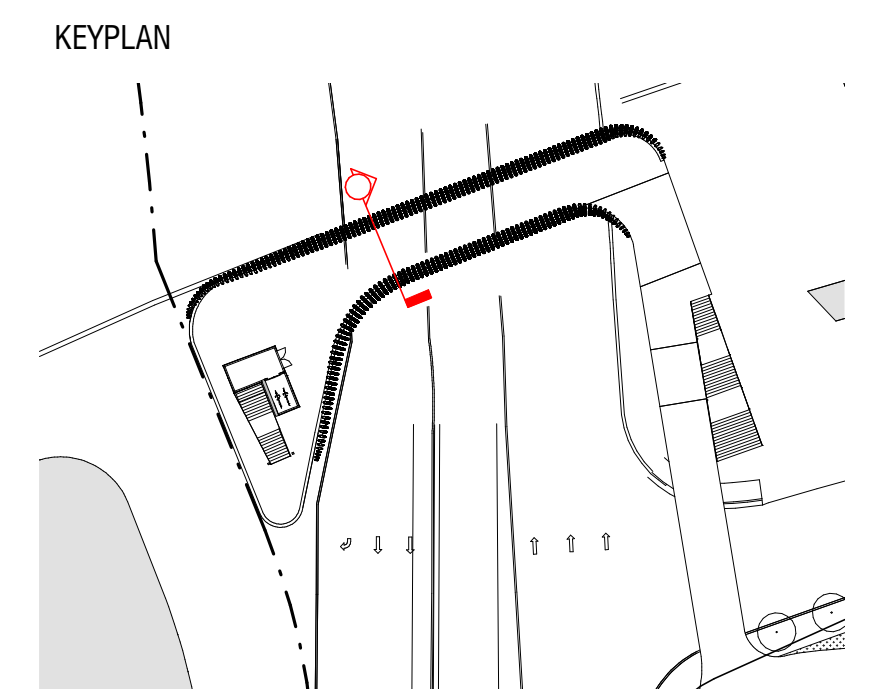


STAIR #1 SECTION 1  
SCALE: 1/8" = 1'-0"





CROSS SECTION AT BRIDGE 1  
SCALE: 1/4" = 1'-0"





- **Locate underground utilities prior to foundation work.**
- **Construct new bridge foundations (48" diameter drilled caissons)**





GENERAL NOTE:  
ALL CONCRETE COLUMNS AND OTHER  
SURFACES 10' AND BELOW WILL RECEIVE  
GRAFFITI GUARD PAINT FINISH

■ Construct pier columns and caps





■ Construct pier columns and caps

500 ALTON BEYOND

CONCRETE PIER CAP BEAM  
CONCRETE COLUMN  
CONCRETE COLUMNS  
BEYOND

5' - 2"  
SIDEWALK

MACARTHUR CAUSEWAY  
35' - 0"  
THREE (3) LANES

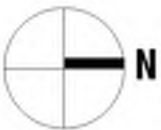
EAST BOUND FLY OVER RAMP  
17' - 3 5/8"  
ONE (1) LANE

24' - 6"  
TWO (2) LANES

5' - 2"  
SIDEWALK

CONCRETE PIER CAP BEAM  
CONCRETE COLUMN AND OTHER  
SURFACES 10' AND BELOW WILL  
RECEIVE GRAFFITI GUARD PAINT  
FINISH

WEST ELEVATION 2  
SCALE: 1/8" = 1'-0"





■ Construct stairs and 1st level of elevator tower

500 ALTON BEYOND

CONCRETE PIER CAP BEAM  
STAIR #2 BEYOND  
CONCRETE COLUMN  
CONCRETE COLUMNS BEYOND

5' - 2"  
SIDEWALK

MACARTHUR CAUSEWAY  
35' - 0"  
THREE (3) LANES

EAST BOUND FLY OVER RAMP  
17' - 3 5/8"  
ONE (1) LANE

24' - 6"  
TWO (2) LANES

5' - 2"  
SIDEWALK

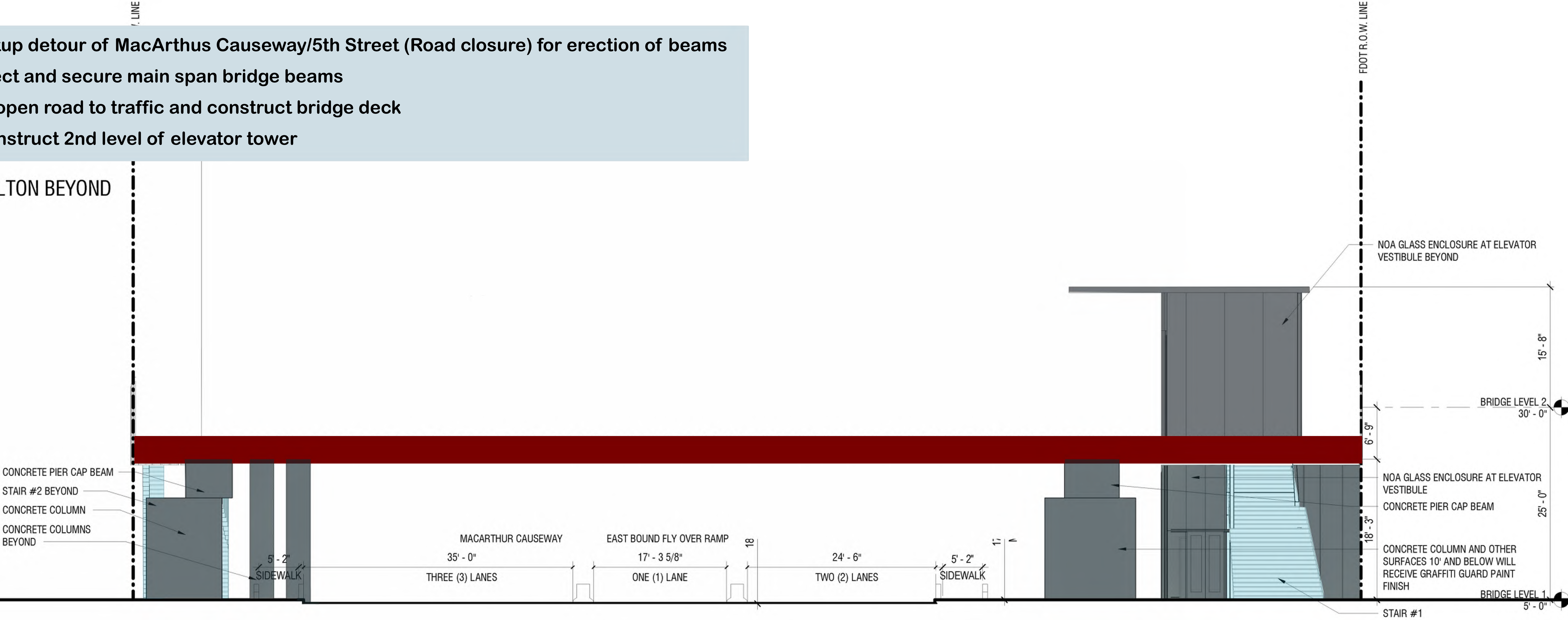
NOA GLASS ENCLOSURE AT ELEVATOR VESTIBULE  
CONCRETE PIER CAP BEAM  
CONCRETE COLUMN AND OTHER SURFACES 10' AND BELOW WILL RECEIVE GRAFFITI GUARD PAINT FINISH  
STAIR #1  
BRIDGE LEVEL 1

WEST ELEVATION 2  
SCALE: 1/8" = 1'-0"



- Setup detour of MacArthus Causeway/5th Street (Road closure) for erection of beams
- Erect and secure main span bridge beams
- Reopen road to traffic and construct bridge deck
- Construct 2nd level of elevator tower

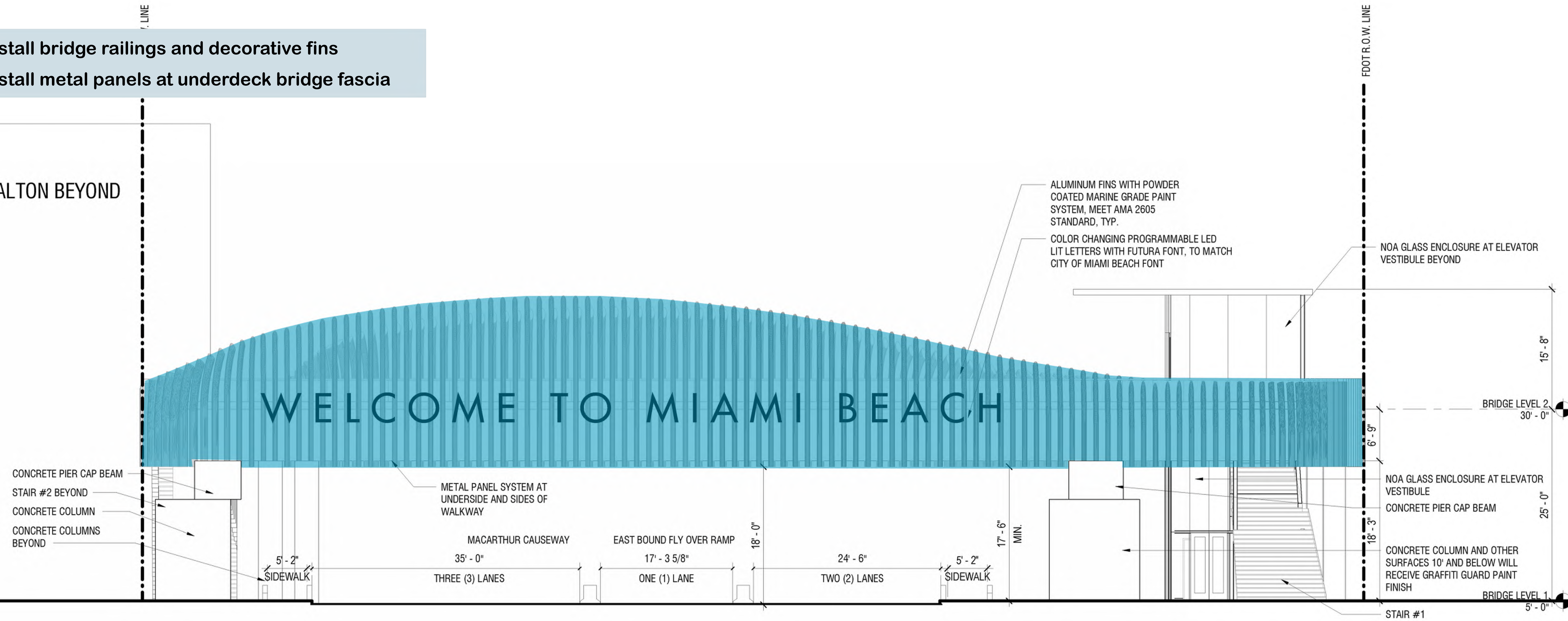
500 ALTON BEYOND





- Install bridge railings and decorative fins
- Install metal panels at underdeck bridge fascia

500 ALTON BEYOND

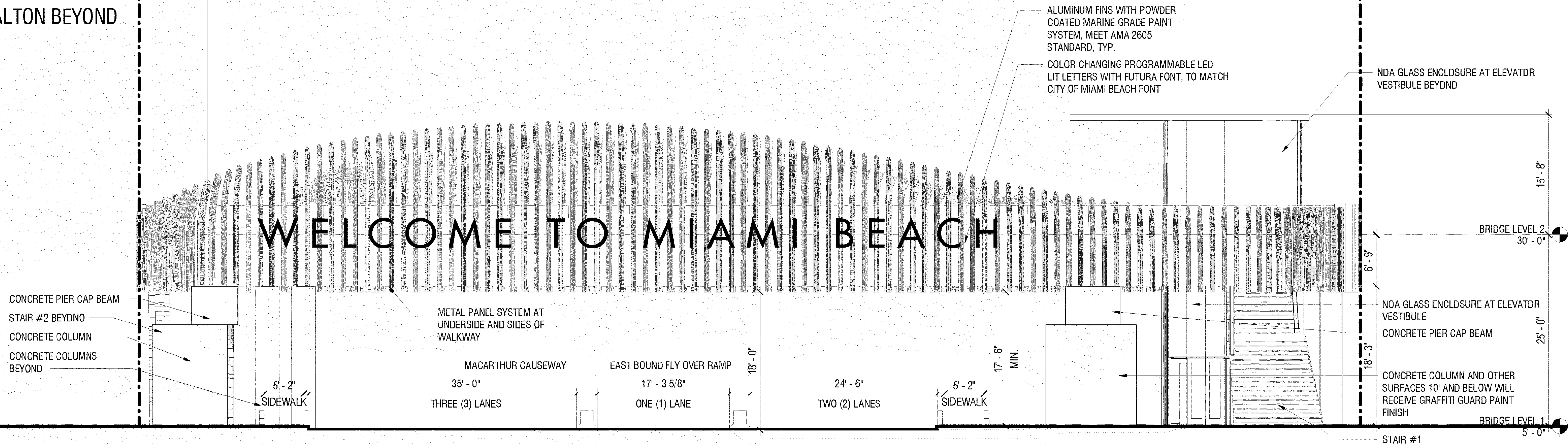


WEST ELEVATION 2  
SCALE: 1/8" = 1'-0"



- Install decorative signs
- Complete mechanical and electrical work

500 ALTON BEYOND



WEST ELEVATION 2  
SCALE: 1/8" = 1'-0"



# 5TH STREET BAYWALK PEDESTRIAN CONNECTOR BRIDGE

MIAMI BEACH, FLORIDA 33139

## DESIGN REVIEW BOARD - FIRST SUBMITTAL

FINAL SUBMITTAL DEADLINE 03.11.2019

### ARQUITECTONICA GEO

LANDSCAPE ARCHITECTS

2900 OAK AVE

MIAMI, FLORIDA 33133

Phone (305)372 1812 Fax (305)372 1175

Website: [www.arquitectonicageo.com](http://www.arquitectonicageo.com)

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DESCRIPTION		
(CITY OF MIAMI BEACH DRB)		
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17	LIR1-100	GROUND LEVEL IRRIGATION PLAN
18	LIR5-100	GROUND LEVEL IRRIGATION DETAILS



**ARQUITECTONICA**

**LAKES**  
ENGINEERING, INC.

**ARQUITECTONICA****GEO**

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FIRST DRB SUBMITTAL  
5TH STREET BAYWALK  
PEDESTRIAN CONNECTOR  
BRIDGE  
MIAMI BEACH, FL 33139

LANDSCAPE INDEX

04/08/19

L0-000



GENERAL NOTES

1. These plans reflect the scope of the Landscape Architect external services. For Architectural, Civil, please refer to the appropriate consultant documents.
2. The locations of all site amenities are approximate and may be adjusted in the field with owner and/or their representatives approval. See plans for locations of fixed amenities.
3. The locations of plants, as shown in these plans, are approximate. The final locations may be adjusted to accommodate unforeseen field conditions to comply with safety criteria, to avoid creating unsafe sight conditions, or as otherwise directed by or approved by the landscape architect or owner's representative.
4. Construction shall comply with all local building codes.
5. All dimensions shall be verified in the field prior to construction. Written dimensions shall take precedence over scaled drawings.
6. If a discrepancy should arise between layout geometry and design intent, design intent shall take precedence.

GENERAL GRADING NOTES

1. All grading information provided is intended for aesthetic purposes and to show relationships only. For detailed grading information see Civil Engineers drawings.
2. Rough grading and site preparation shall be completed for review by Landscape Architect / or owners representative prior to final grading.
3. Roadway grading and transition areas to be reviewed and approved by Civil / Traffic Engineer.
4. Grading and calculations for retention areas to be provided by Civil Engineers.
5. Contractor shall not substantially modify grading plan without the approval of designer. All site aesthetic grading is subject to review and approval of the landscape architect or owner's representative.
6. All graded areas shall be dragged with a drag mat or hand radeel to blend in small imperfections and round off any sharp lines that may have been constructed by equipment. All areas to be planted shall have no water holding pockets.

GENERAL SITE LIGHTING NOTES

1. All electrical wiring and circuiting by Electrical Engineer in future permit set.
2. Shop drawings shall be required by manufacturers and/or contractors for all connections, footers, electrical requirements and color samples for review and approval by the landscape architect or owner's representative.
3. Photometrics to be provided by the Engineer and coordinated with Landscape Architect/or owner representative.
4. Transformers and other exterior ballasts shall be hidden from general view with landscaping and /or appropriate enclosures. This should be coordinated with Landscape architect.

GENERAL LANDSCAPE NOTES

1. The Contractor shall be responsible for verifying all underground utilities prior to digging in any area. The contractor shall notify all necessary utility companies 48 hours minimum prior to digging for verification of all underground utilities, irrigation and all other obstructions and coordinate with Owner's Representative prior to initiating operations. Drawings are prepared according to the best information available at the time of preparing documents.
2. The contractor is responsible to ensure proper watering and maintenance of new and relocated plant materials during the one year warranty period.
3. Contractor is to report any discrepancies between the construction drawings and field conditions to the Owner's Representative immediately.
4. Landscape Contractor shall coordinate all work with related contractors and with the general construction of the project in order not to impede the progress of the work of others or the contractor's own work. Landscape contractor shall provide schedule of his/her work two weeks in advance, beginning two weeks prior to commencing landscape trade construction.
5. The location of the landscape holding area will be identified by the Owner or Owner's Representative. The Contractor shall adhere to the access routes to and from the holding area without disrupting or impeding access to the site by others. Contractor is responsible for the maintenance of all plant materials, including temporary irrigation and fertilization if necessary during construction, while being held in landscape holding areas.
6. The Contractor shall bear all costs of testing of soils, amendments, etc. associated with the work and included in the specifications. Prior to commencement of the landscape planting work the Contractor shall provide complete soil tests with recommendations for soil treatment in the construction area.
7. Landscape Contractor shall field stake the location of all plant material or field stake the plants prior to initiating installation for the review and approval of the Owner's representative and/or Landscape Architect. Note: **No planting shall commence until there is a functional irrigation system in the area to be planted. No trees shall be planted on top of irrigation lines.**
8. Landscape Contractor shall field adjust location of plant material as necessary to avoid damage to all existing underground utilities and/ or existing above ground elements. All changes required shall be completed at the Contractor's expense and shall be coordinated with Owner's Representative and the Landscape Architect.
9. Any substitutions in size and/or plant species must be approved by the Landscape Architect or Owner's Representative prior to modification of the contract, purchasing and delivery of plants. All plants will be subject to approval by Landscape Architect and/or Owner's Representative before planting can begin. All plant materials will not include any plants considered to be invasive by the City of Miami Beach.
10. Contractor shall refer to the landscape planting details, general notes and the project manual and/or specifications for further and complete landscape planting instructions.
11. Landscape Contractor shall coordinate all planting work with permanent or temporary irrigation work. Landscape Contractor shall be responsible for all hand watering as required by Owner's Representative to supplement irrigation watering and rainfall. Landscape Contractor shall be responsible for hand watering in all planting areas, regardless of the status of existing or proposed irrigation.
12. Landscape Contractor shall clean the work areas at the end of each working day. Rubbish and debris shall be collected and deposited off-site or in an approved disposal area daily. All materials, products and equipment shall be stored in an organized fashion as directed by the Owner's Representative.
13. Landscape Contractor shall re-grade all areas disturbed by plant removal, relocation and/or installation work. Landscape Contractor shall replace (by equal size and quality) any and all existing or new plant material disturbed or damaged by plant removal, relocation, and/or installation work.
14. Site distance concerns must be maintained for clear site visibility from thirty (30) inches to seventy-two (72) inches, tree trunks are excluded as specified in appropriate municipal codes.

GENERAL LANDSCAPE NOTES CONT'D

15. Guying / staking practices shall not permit nails, screws, wires, etc., to penetrate outer surface of any tree or palm. Trees or palms rejected due to this practice shall be replaced at the Contractor's expense.
16. Burlap material, wire cages, plastic straps, etc., must be cut and removed from top one-third (1/3) of root ball.
17. Trees grown in grow bags or grow bag type material are not allowed.
18. All planting materials shall meet or exceed local requirements as specified by local plant standards.
19. All landscape installations shall meet or exceed the minimum requirements as shown in appropriate municipal codes.
20. The Contractor shall be responsible for the guarantee of all plant material for a period of twelve (12) months from the date of substantial completion. Substantial completion constitutes the beginning of guarantee period.
21. Plant size specifications take precedence over container size.
22. Contractor to verify quantities and report any discrepancies to Owners representative and/or Landscape Architect.
23. All plant material shall be graded Florida #1 or better.
24. All proposed planting beds will be planted out correctly with proper spacing.
25. All tree work will require permitting by a registered Miami-Dade County Tree Trimmer.
26. Burlap, wire cages, etc., be removed half way down root balls.

SOIL PREPARATION AND SOIL MIX

1. All plants noted for removal shall be relocated as shown on plans or removed and properly disposed of offsite at contractors expense unless otherwise noted.
2. Before finishing top soil grading, scarify & rake subsoil clear of stones (1" diameter and larger), debris, rubbish, and remaining roots from removed plant material to a depth of 6".
3. Plant holes should be dug and the sides and bottom of the hole should be stable, regardless of depth. Soil scarification is necessary if sides of the hole are compacted.
4. Contractor to apply approved pre-emergent herbicide in accordance with manufacturer's rate and specifications. Contractors to provide manufacturer's specifications for approval.
5. Planting soil mix for planters, trees, shrubs, and ground cover & grasses shall be determined by soil analysis prior to planting landscape.

The planting soil mix should be what comes out of the hole so the plant adapts to the surrounding/existing soil and grows into it. This is why the sides and the bottom of the planting hole should never be compacted with the digging implements. Never fertilize newly planted plants and trees. Please note that peat moss will eventually decompose and clog soil pores thereby inhibiting the plants water and oxygen consumption.

6. Topsoil shall be natural, fertile, agricultural soil capable of sustaining vigorous plant growth. It shall be of uniform composition throughout, with admixture of subsoil, it shall be free of stones, lumps, live plants and their roots, sticks, and other extraneous material. Top soil brought in should match as well as possible the existing soil texture and Ph. Planted material should never be "mounded" or raised; the soil will eventually wash away exposing the roots and it will be difficult to establish the plant material due to drought and excessive soil transpiration. All plant/tree material should be installed with the root collar exposed (approximately 1/2" to 1"). Landscape contractor should find the uppermost lateral root and plant that just below the soil surface.

7. Smooth topsoil without compaction to two inches (2") below finish grade in areas to be sodded without compaction.
8. Finish grade all topsoil areas to a smooth non-compacted, even surface assuring positive drainage away from the structures and eliminate any low areas except in retention areas where water may collect.

9. Contractor to remove debris and excess material immediately from job site while keeping in mind that heavy equipment will compact soil to the detriment of water drainage and the health of the newly installed plants. All planting areas with compacted soil will have surfaces scarified to a min. of 6" in depth.

PLANTING SPECIFICATIONS

1. The contractor is responsible for maintaining, in full, all planting areas (including watering, spraying, mulching, mowing, fertilizing, etc.) Until the job is accepted, in full, by the owner, its representative and Landscape Architect.
2. All plant material shall be protected during transport and delivery to final location with shade cloth or other acceptable means of windburn prevention. Plant/tree material shall conform to Florida # 1 as described in Florida grades & standards, the latest issue.
3. All trees must be guyed or staked as shown in details.
4. When plant material is delivered onsite, it shall not be laid down for more than two hours. Plant material when stored onsite shall be placed and maintained in good condition in a vertical position. All plants held onsite shall be kept watered regularly in sufficient amounts to permit continuous and vigorous growth.

5. Installation of all plant material shall be installed in a sound, workmanlike manner and according to accepted good planting and tree relocation procedures with the quality of plant materials as hereinafter described. All elements of landscaping shall be installed so as to meet all applicable ordinances and code requirements.

6. There shall be no chains or cables used directly on trees or palms, handle with 2" minimum width nylon straps or equal.

7. Contractor shall assure drainage and percolation of all planting pits. Prior to installation of plant material, contractor shall fill all tree pits with water before planting to assure that proper drainage and percolation is available. Correct if required to assure percolation. Contractor is responsible for replacement of all plants lost due to inadequate drainage conditions. Plant/tree material that has bark scraped off due to shipping, handling, and installation issues may be rejected upon inspection by the L.A.

8. Contractor to request inspection of project in writing. If all work is satisfactory and complete in accordance with conditions of contract documents, then the owner, its representative, and landscape architect shall declare the project substantially complete.

9. Substantial completion constitutes the beginning of guarantee period.

10. Contractor to replace rejected plant within two (2) weeks of notice.

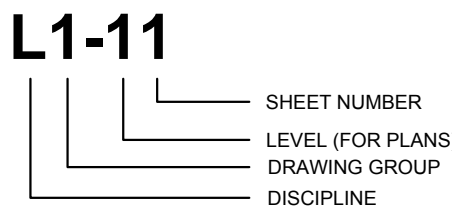
11. Crown pruning of any trees or palms is generally not approved by the national arborist association standards. When it is approved, it must be done in writing.

12. Xeriscaping principles as outlined in the South Florida Water Management District Xeriscape Plant Guide 2 shall be applied throughout landscape installation and maintenance.

DRAWING ORGANIZATION

1. DRAWING NUMBERING SYSTEM

THE DRAWING NUMBER FOR EACH SHEET CONSISTS OF THE FOLLOWING:



2. DRAWING GROUP

LANDSCAPE DRAWINGS ARE ORGANIZED INTO THE FOLLOWING GROUPS:

- L0 = GENERAL
- L1 = PLANS
- L2 = ELEVATIONS
- L3 = SECTIONS
- L4 = ENLARGEMENTS
- L5 = DETAILS
- L6 = SCHEDULES

3. SHEET NUMBER

EACH DRAWING SHEET WITHIN EACH GROUP/MULTIPLE SHALL BE NUMBERED SEQUENTIALLY FROM 00 TO 99.

4. DRAWING NUMBER EXAMPLES:

L1-11 HARDSCAPE PLAN

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FIRST DRB SUBMITTAL  
5TH STREET BAYWALK  
PEDESTRIAN CONNECTOR  
BRIDGE  
MIAMI BEACH, FL 33139

LANDSCAPE NOTES

04/08/19

L0-001



CITY OF MIAMI BEACH  
LANDSCAPE LEGEND - DEVELOPMENT SITE

INFORMATION REQUIRED TO BE PERMANENTLY AFFIXED TO PLANS

Zoning District	ARGA	Lot Area	7808	Acres	0.18	REQUIRED/ ALLOWED	PROVIDED
-----------------	------	----------	------	-------	------	----------------------	----------

OPEN SPACE

A. Square feet of required Open Space as indicated on site plan:									
Lot Area=	7808	s.f. x	40	%=	3123	s.f.		3123	3745
B. Square feet of parking lot open space required as indicated on site plan:									
Number of parking spaces		0	x 10	s.f. parking space=			0		
C. Total square feet of landscaped open space required: A+B=							3123		3745

LAWN AREA CALCULATION

A. Square feet of landscaped open space required								
B. Maximum lawn area (sod) permitted =	20	% x	3745	s.f.		749		0

TREES

A. Number of trees required per lot or net lot acre, less existing number of trees meeting minimum requirements=		4		7
B. % Natives required: Number of trees provided x 30%=		2.1		7
C. % Low maintenance/drought and salt tolerant required: Number of trees provided x 50%=		3.5		7
D. Street Trees (maximum average spacing of 20' o.c) 270 linear feet along street divided by 20'=		14		14
E. Street tree species allowed directly beneath power lines: (maximum average spacing of 20' o.c.)=		0		0

SHRUBS

A. Number of shrubs required: Sum of lot and street trees required x 12=		209		220
B. % Native shrubs required: Number of shrubs provided x 50%=		110		220

LARGE SHRUBS OR SMALL TREES

A. Number of large shrubs or small trees required: Number of required shrubs x 10%=		21		25
B. % Native large shrubs or small trees required: Number of large shrubs or small trees provided x 50%=		13		25



TREES/PALMS



COCOS NUCIFERA  
COCONUT



CONOCORPUS ERECTUS  
VAR SERICEUS  
SILVER BUTTONWOOD



COCOTHRINAX ARGENTATA  
FLORIDA PALM



ROYTONEA REGIA  
ROYAL PALM



SABAL PALMETTO  
CABBAGE PALM



THRINAX SPP



QUERCUS VIRGINIANA  
LIVE OAK

TREES/SHRUBS



ARDISIA ESCALLONIOIDES  
MARLBERRY



CAPPARIS CYNOPHALOPHORA  
JMAICA CAPER



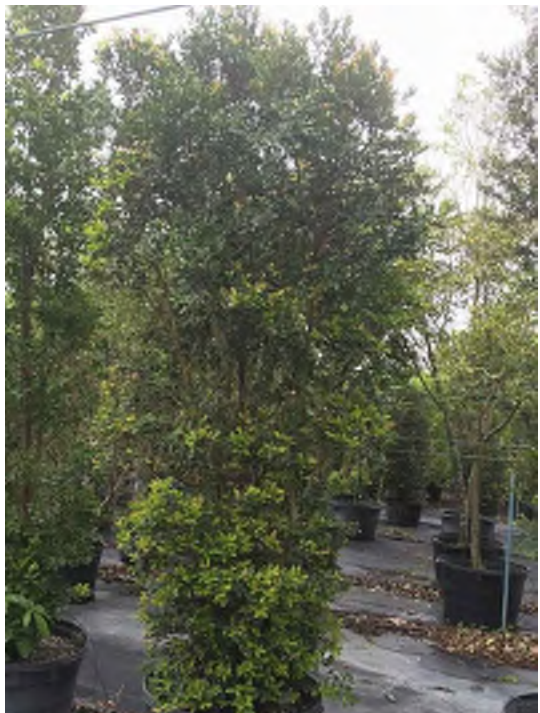
CHRYSOBALANUS ICACO  
VAR ICACAO  
COCOPLUM



COCCOLOBA DIVERSIFOLIA  
PIGEON PLUM



DIPHOLIS SALICIFOLIUM  
WILLOW BUSTIC



EUGENIA FOETIDIA  
SPANISH STOPPER



GYMNATHES LUCIDA  
CRABWOOD



KRUGIODENDRON FERREUM  
BLACK IRONWOOD

SHRUBS



CHRYSOBALANUS ICACO  
CV. HORIZONTALIS  
COASTAL COCOPLUM  
GROUNDCOVERS/LOW GROWING PLANTS



GLADULARIA MARITIMA  
BEACH VERBINA



DODODANEA VISCOSA VAR. VISCOSA  
VIRGINIA KEY VARNISH LEAF



PSYCHOTRIA NERVOSA  
SHINY-LEAF WILD COFFEE



RANDIA ACULEATA  
WHITE INDIGO BERRY



SURIANA MARITIMA  
BAY CEDAR



ZAMIA INTEGRIFOLIA  
COONTIE



SERENOA REPENS "CINERA"  
SILVER SAW PALMETTO



CALLICARPA AMERICANA  
AMERICAN BEAUTYBERRY



HYMENOCALLIS LATIFOLIA  
SPIDER LILY



MUHLENBURGIA CAPILLARIS  
PINK MUHLY



SPARTINA BAKERI  
CORDGRASS



TRIPSACUM DACTYLOIDES  
FAKAHATCHEE





OOLITE



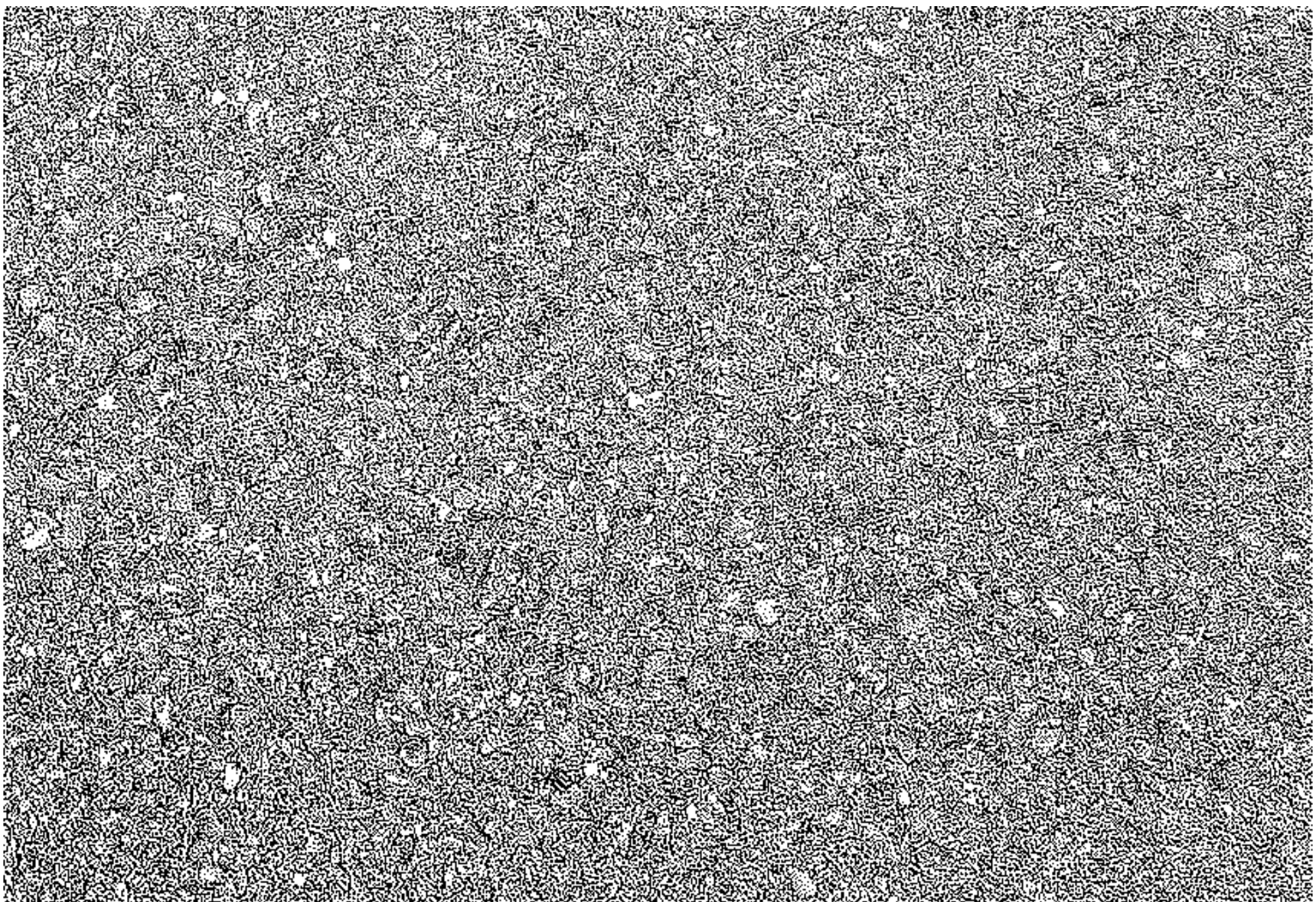
ELEVATED WALKWAY



PINE BARK MULCH NUGGET

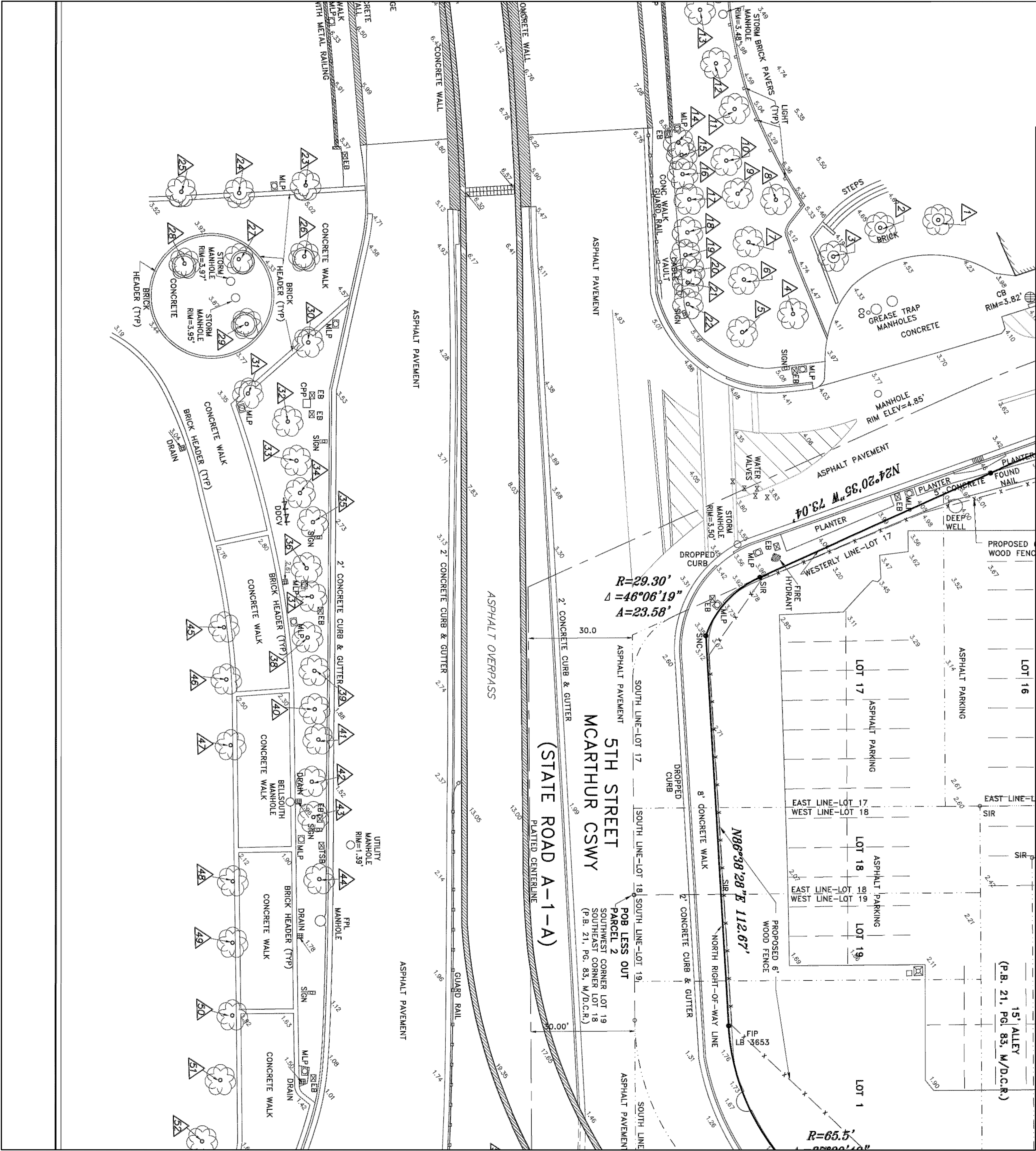


BAYWALK PAVERS



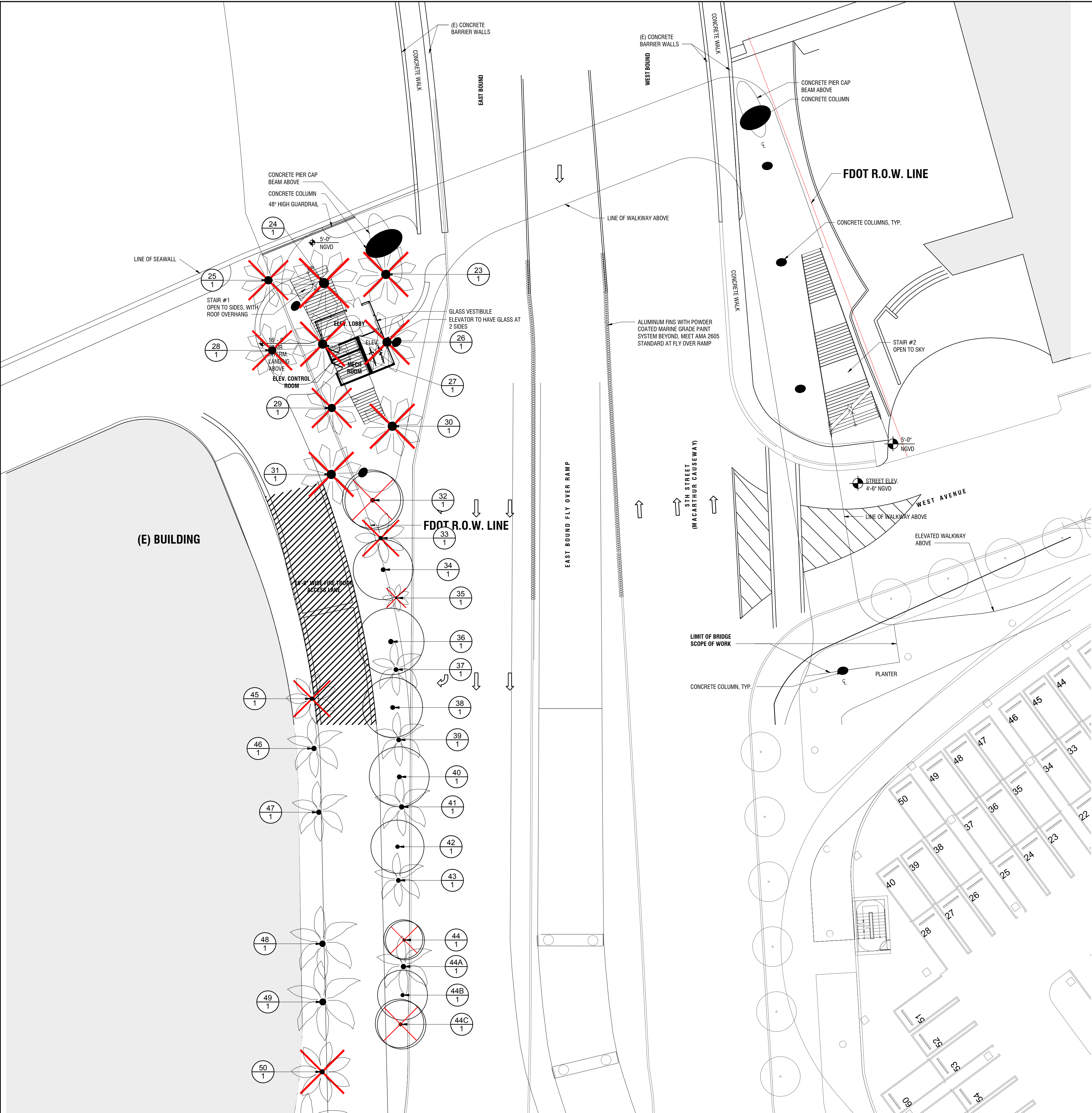
POURED-IN-PLACE CONCRETE





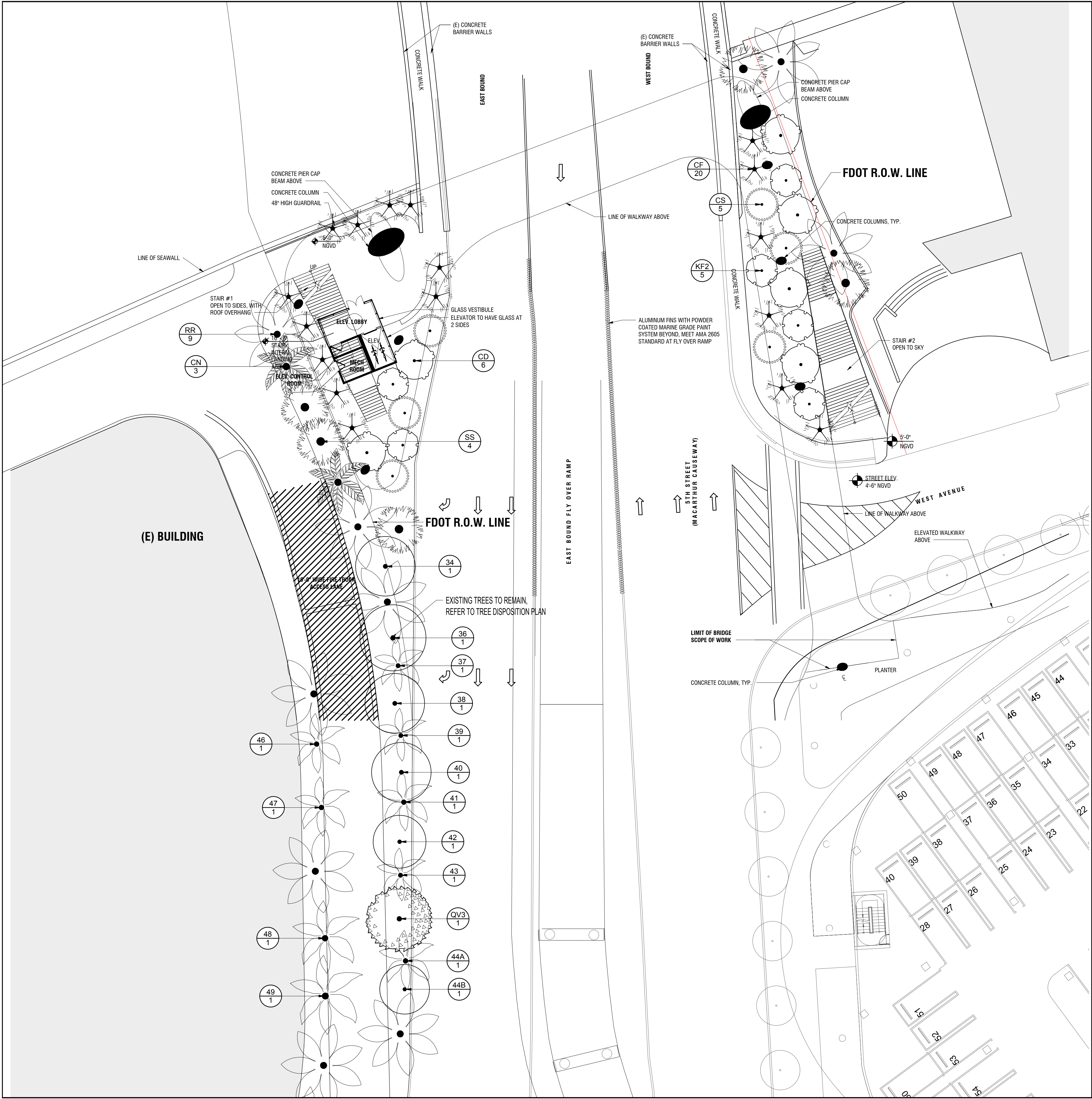
EXISTING TREE SURVEY (OFF SITE)							
TREE NO. ON SURVEY	SPECIES		TRUNK DIA. AT BREAST HEIGHT	# OF TRUNKS	TREE HEIGHT	CANOPY SPREAD	CANOPY (SF)
	COMMON NAME	SCIENTIFIC NAME	INCHES		FEET	FT2	
1	PALM		10				
2	PALM		10				
3	PALM		10				
4	TWIN PALM		10				
5	PALM		10				
6	GUMBO LIMBO		4				
7	TWIN PALM		8				
8	GUMBO LIMBO		8				
9	PALM		10				
10	PALM		14				
11	TWIN PALM		8				
12	GUMBO LIMBO		8				
13	GUMBO LIMBO		8				
14	PALM		8				
15	TWIN PALM		8				
16	PALM		10				
17	TWIN PALM		8				
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54	PALM		8				
55	PALM		8				
56	PALM		8				





TREE DISPOSITION SCHEDULE											
TREES	CODE	BOTANICAL NAME	COMMON NAME	DBH	H/CT	CANOPY	CONDITION	TPZ	DISPOSITION	CANOPY SQ FT	
	23	Phoenix dactylifera	Date Palm	17"	28'	18'	Good	5'	Remove	255	
	24	Phoenix dactylifera	Date Palm	18"	28'	18'	Good	5'	Remove	255	
	25	Phoenix dactylifera	Date Palm	15"	17'	16'	Moderate	5'	Remove	202	
	26	Phoenix dactylifera	Date Palm	16"	17'	18'	Moderate	5'	Remove	255	
	27	Phoenix dactylifera	Date Palm	16"	27'	18'	Moderate	5'	Remove	255	
	28	Phoenix dactylifera	Date Palm	17"	28'	16'	Moderate	5'	Remove	202	
	29	Phoenix dactylifera	Date Palm	16"	30'	16'	Moderate	5'	Remove	202	
	30	Phoenix dactylifera	Date Palm	17"	28'	18'	Good	5'	Remove	255	
	31	Phoenix dactylifera	Date Palm	17"	28'	18'	Good	5'	Remove	255	
	32	Quercus virginiana	Southern Live Oak	8"	28'	18'	Moderate	5'	Remove	255	
	33	Roystonea regia	Royal Palm	15"	25'	15'	Poor		Remove	177	
	34	Quercus virginiana	Southern Live Oak	9"	25'	18'	Moderate	5'	REMAIN		
	35	Roystonea regia	Royal Palm	18"	38'	8'	Poor		Remove	51	
	36	Quercus virginiana	Southern Live Oak	10"	25'	20'	Moderate	5'	REMAIN		
	37	Roystonea regia	Royal Palm	20"	35'	16'	Moderate	5'	REMAIN		
	38	Quercus virginiana	Southern Live Oak	8"	24"	16'	Moderate	5'	REMAIN		
	39	Roystonea regia	Royal Palm	21"	35'	16'	Moderate	5'	REMAIN		
	40	Quercus virginiana	Southern Live Oak	8"	20'	18'	Moderate	5'	REMAIN		
	41	Roystonea regia	Royal Palm	21"	35'	18'	Moderate	5'	REMAIN		
	42	Quercus virginiana	Southern Live Oak	7"	20'	16'	Moderate	5'	REMAIN		
	43	Roystonea regia	Royal Palm	17"	30'	16'	Moderate	5'	REMAIN		
	44	Quercus virginiana	Southern Live Oak	7"	15'	12'	Poor		Remove	114	
	44A	Roystonea regia	Royal Palm	16"	35'	18'	Good	5'	REMAIN		
	44B	Quercus virginiana	Southern Live Oak	7"	18'	15'	Moderate	5'	REMAIN		
	44C	Quercus virginiana	Southern Live Oak	7"	16'	15'	Poor		Remove	177	
	45	Roystonea regia	Royal Palm	20"	35'	15'	Poor		Remove	177	
	46	Roystonea regia	Royal Palm	20"	45'	18'	Moderate	5'	REMAIN		
	47	Roystonea regia	Royal Palm	20"	30'	18'	Moderate	5'	REMAIN		
	48	Roystonea regia	Royal Palm	20"	30'	22'	Moderate	5'	REMAIN		
	49	Roystonea regia	Royal Palm	19"	30'	24'	Moderate	5'	REMAIN		
	50	Roystonea regia	Royal Palm	23"	50'	18'	Poor		Remove	255	
	51	Roystonea regia	Royal Palm	19"	30'	24'	Moderate	5'	REMAIN		
	52	Roystonea regia	Royal Palm	18"	32'	22'	Moderate	5'	REMAIN		
	53	Phoenix dactylifera	Date Palm	19"	30'	18'	Good	5'	REMAIN		
	54	Phoenix dactylifera	Date Palm	22"	30'	18'	Moderate	5'	REMAIN		
	55	Phoenix dactylifera	Date Palm	18"	28'	18'	Good	5'	REMAIN		
	56	Phoenix dactylifera	Date Palm	21"	28'	18'	Moderate	5'	REMAIN		
											3342





CHAPTER 46-61 TREE REPLACEMENT CHART

REPLACEMENT TREE CATEGORY:	MINIMUM SPECIFICATION REQUIREMENT:	CREDIT OBTAINED IN SQUARE FEET (SQ.FT.):
Category 1 Tree	Min. 12' Overall Ht., Min. 2"-3" Cal.	300
Category 2 Tree	Min. 10' Overall Ht., Min. 2"-3" Cal.	150
Category 3 Tree	Min. 8' Overall Ht., Min. 2"-3" Cal.	100
Category 4 Palm	Min. 6' Clear Trunk	50

CHAPTER 46-61 TREE SPECIES DIVERSITY CHART

REQUIRED NUMBER OF TREES	REQUIRED MINIMUM NUMBER OF SPECIES
01-20	2
21-50	4
51 or greater	6

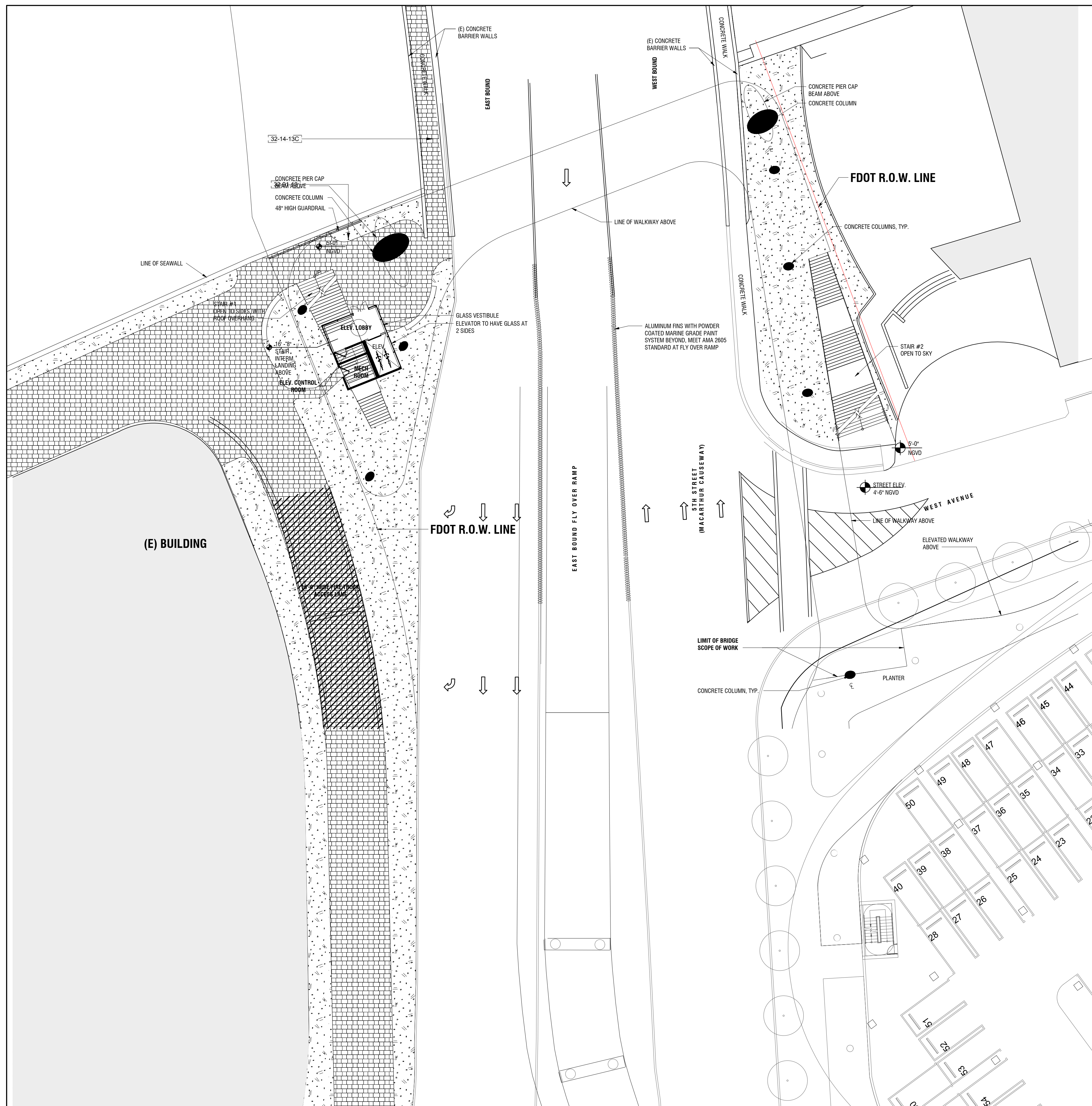
TREE MITIGATION CALCULATIONS


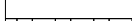
REPLACEMENT TREE CATEGORY:	NUMBER OF REPLACEMENT TREES:	CREDIT OBTAINED IN SQUARE FEET (SQ.FT.):	REPLACED CANOPY AREA: (3,342 SQ.FT. REMOVED)
Category 1 Tree	19	300	5,700
Category 2 Tree	0	150	0
Category 3 Tree	0	100	0
Category 4 Palm	33	50	1,650
TOTAL REPLACEMENT CANOPY AREA:			7,350 SQ.FT.



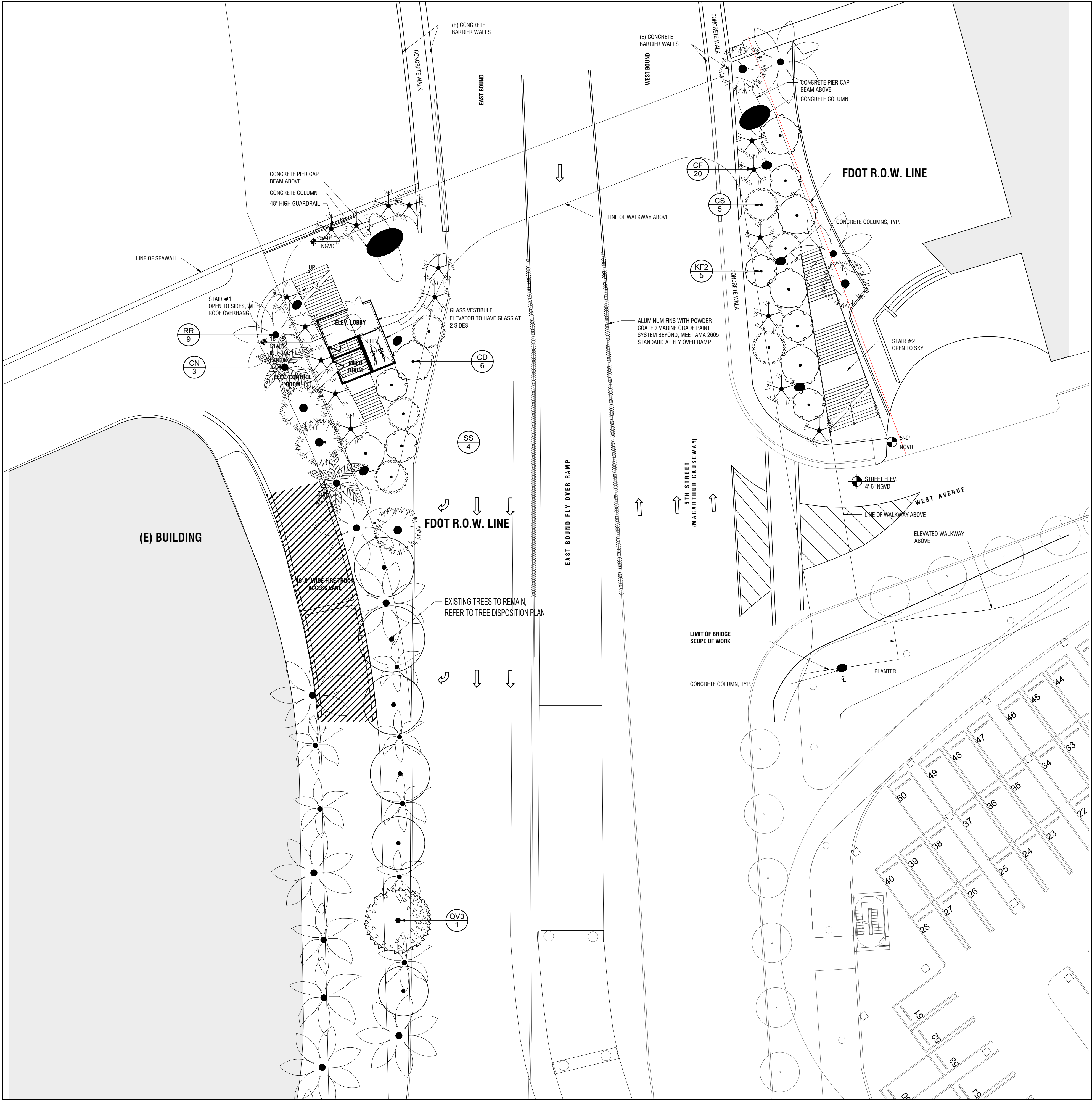






HARDSCAPE SCHEDULE			
SYMBOL	DESCRIPTION	QTY	DETAIL
	[32-14-13C] ITEM: Precast Concrete Unit Paving APPLICATION: Baywalk Connector Bridge	8,665 sf	
	[32-91-13] ITEM: Mulching APPLICATION: Planting beds	8,947 sf	



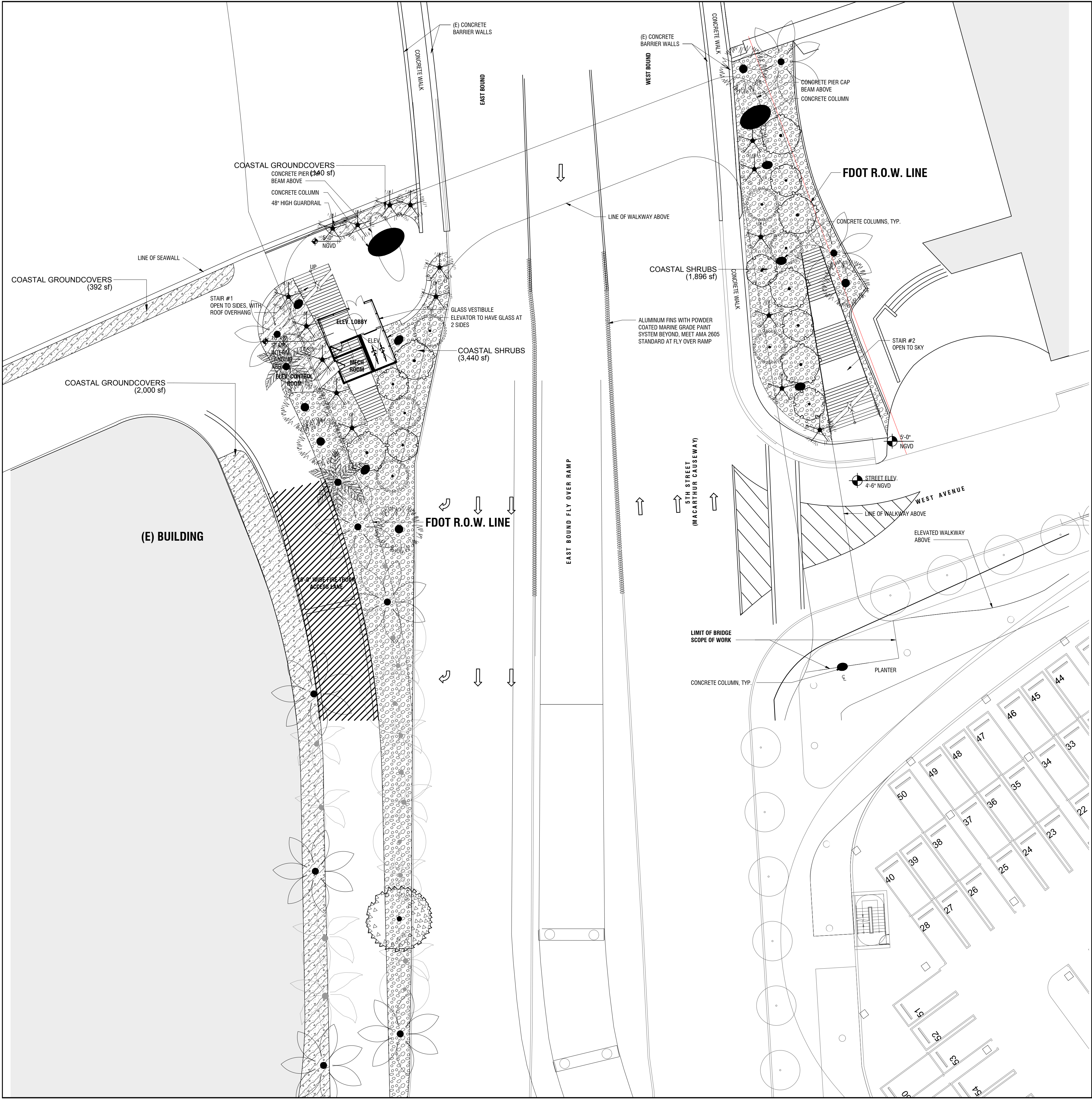


TREE SCHEDULE										
TREES	CODE	QTY	BOTANICAL NAME	COMMON NAME	HEIGHT	SPREAD	DBH	CLEAR TRUNK	NATIVE	DROUGHT TOLERANT
	CD	6	Coccoloba diversifolia	Pigeon Plum	12'	6'-8'	2" min		Yes	Yes
	CS	6	Conocarpus erectus 'Sericeus'	Silver Buttonwood	12'	6'	2" min		Yes	Yes
	KF2	6	Krugiodendron ferreum	Black Ironwood	12'	6'	3" min		Yes	Yes
	QV3	1	Quercus virginiana	Southern Live Oak	25'	20'	10" min.	8'	Yes	Yes
PALMS	CODE	QTY	BOTANICAL NAME	COMMON NAME	HEIGHT	SPREAD	DBH	CLEAR TRUNK	NATIVE	DROUGHT TOLERANT
	CF	17	Coccolthrinax argentata	Florida Silver Palm	10'				Yes	Yes
	CN	2	Cocos nucifera	Coconut Palm	30' OA				NO	Yes
	RR	9	Roystonea regia	Royal Palm	30' GW				Yes	Yes
	SS	5	Sabal palmetto	Cabbage Palmetto	14'	6'-8'	N/A	8'	Yes	Yes









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FIRST DRB SUBMITTAL  
5TH STREET BAYWALK  
PEDESTRIAN CONNECTOR  
BRIDGE  
MIAMI BEACH, FL 33139

GROUND LEVEL LIGHTING PLAN

04/08/19

L1-140

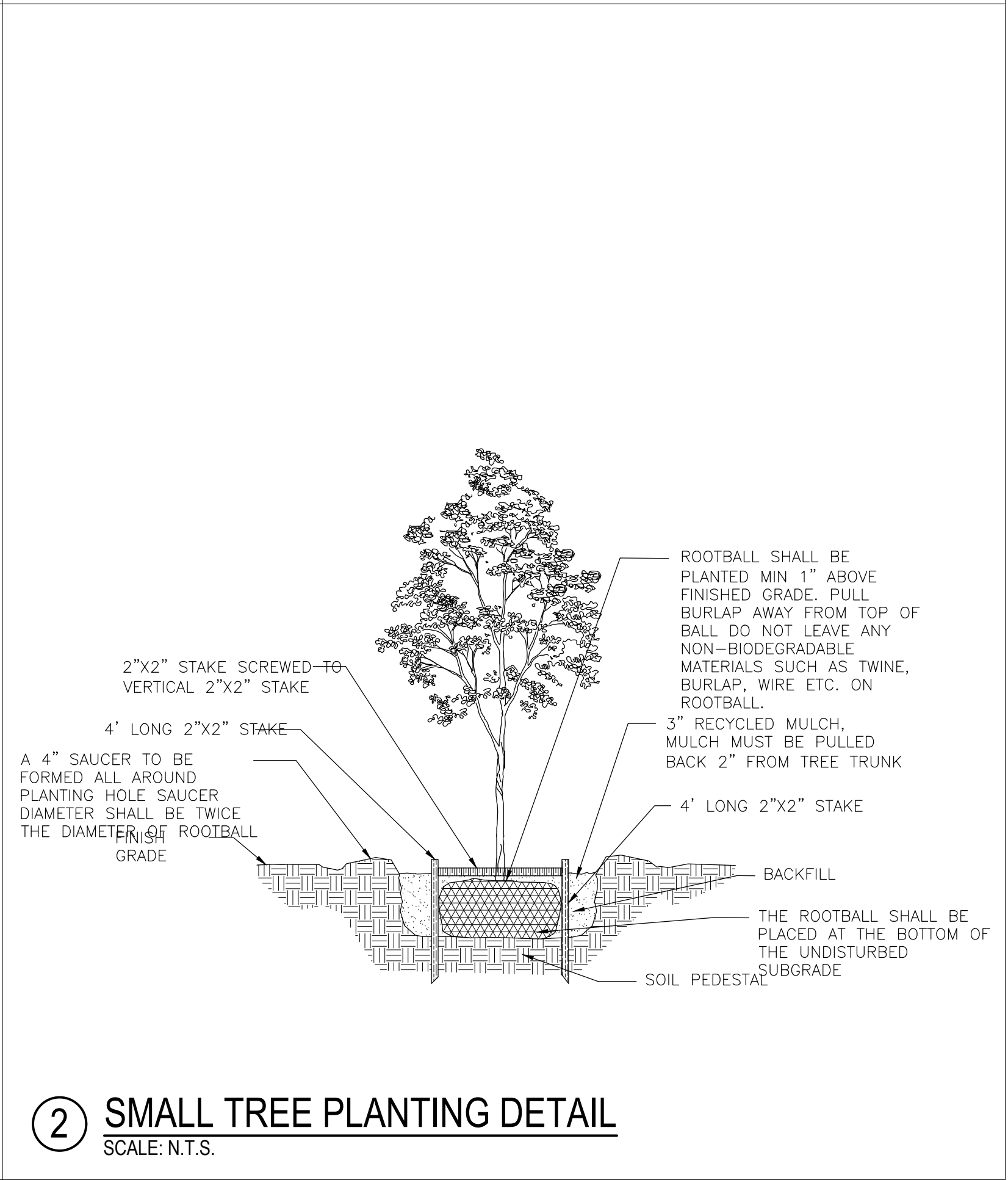
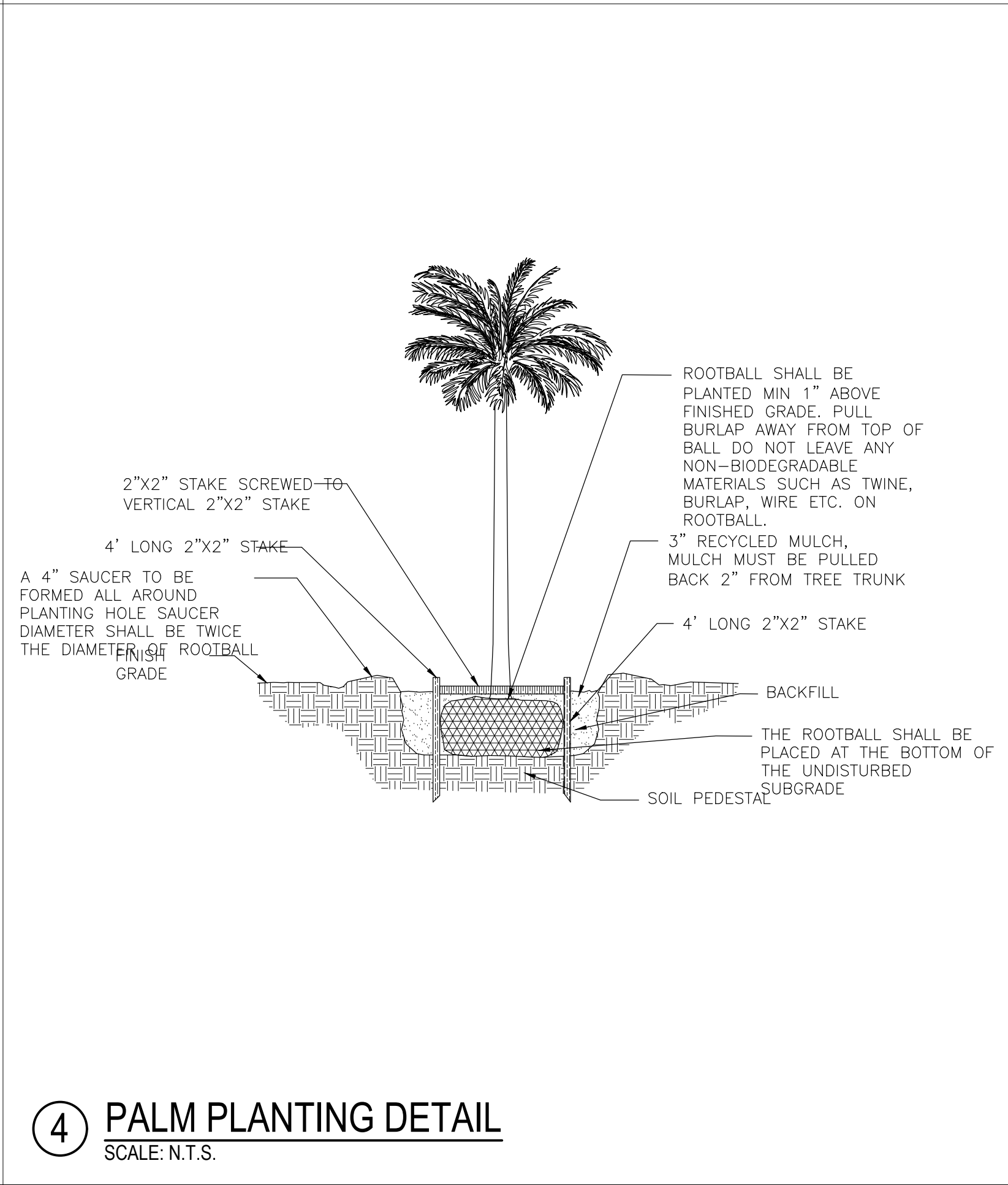
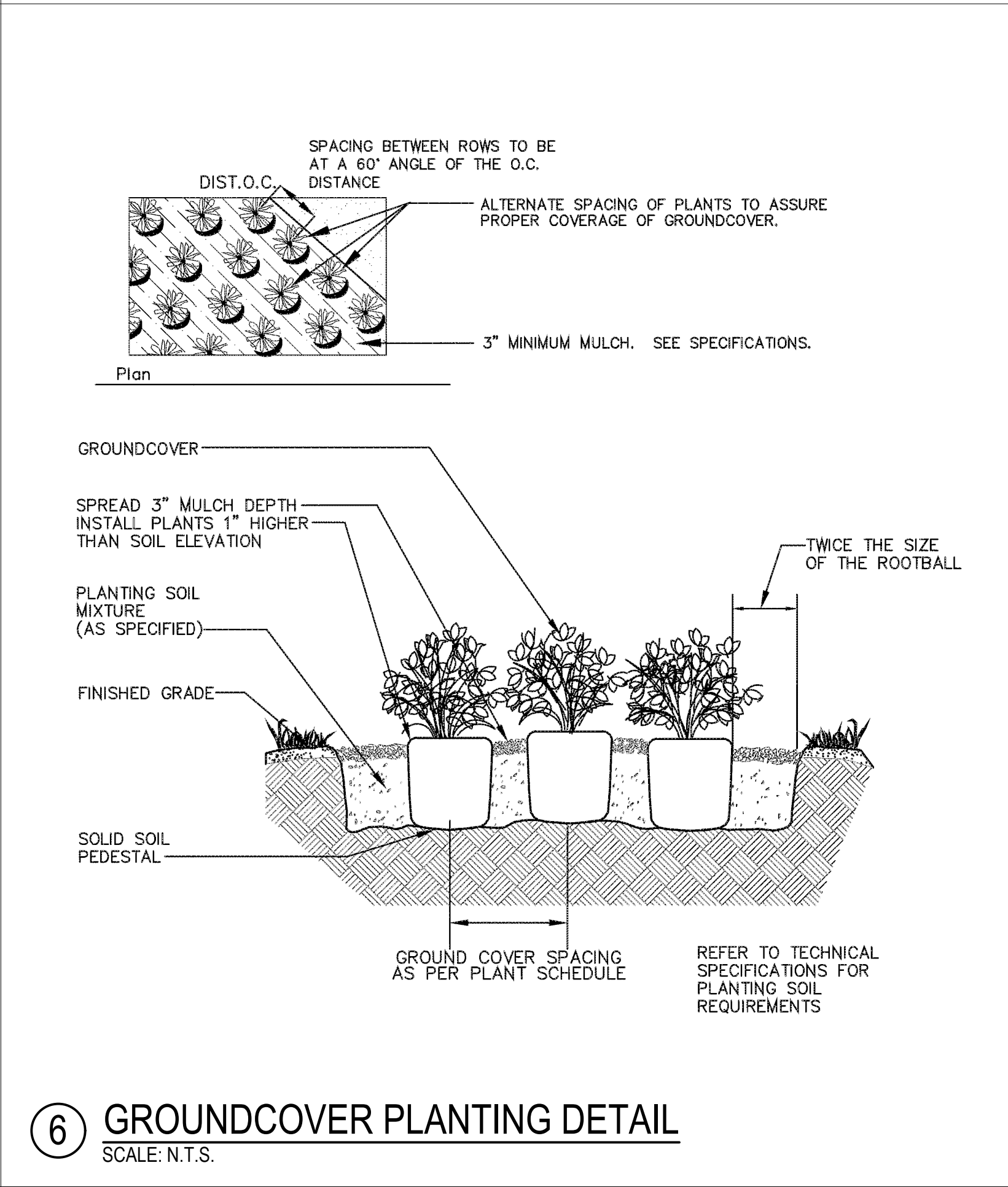
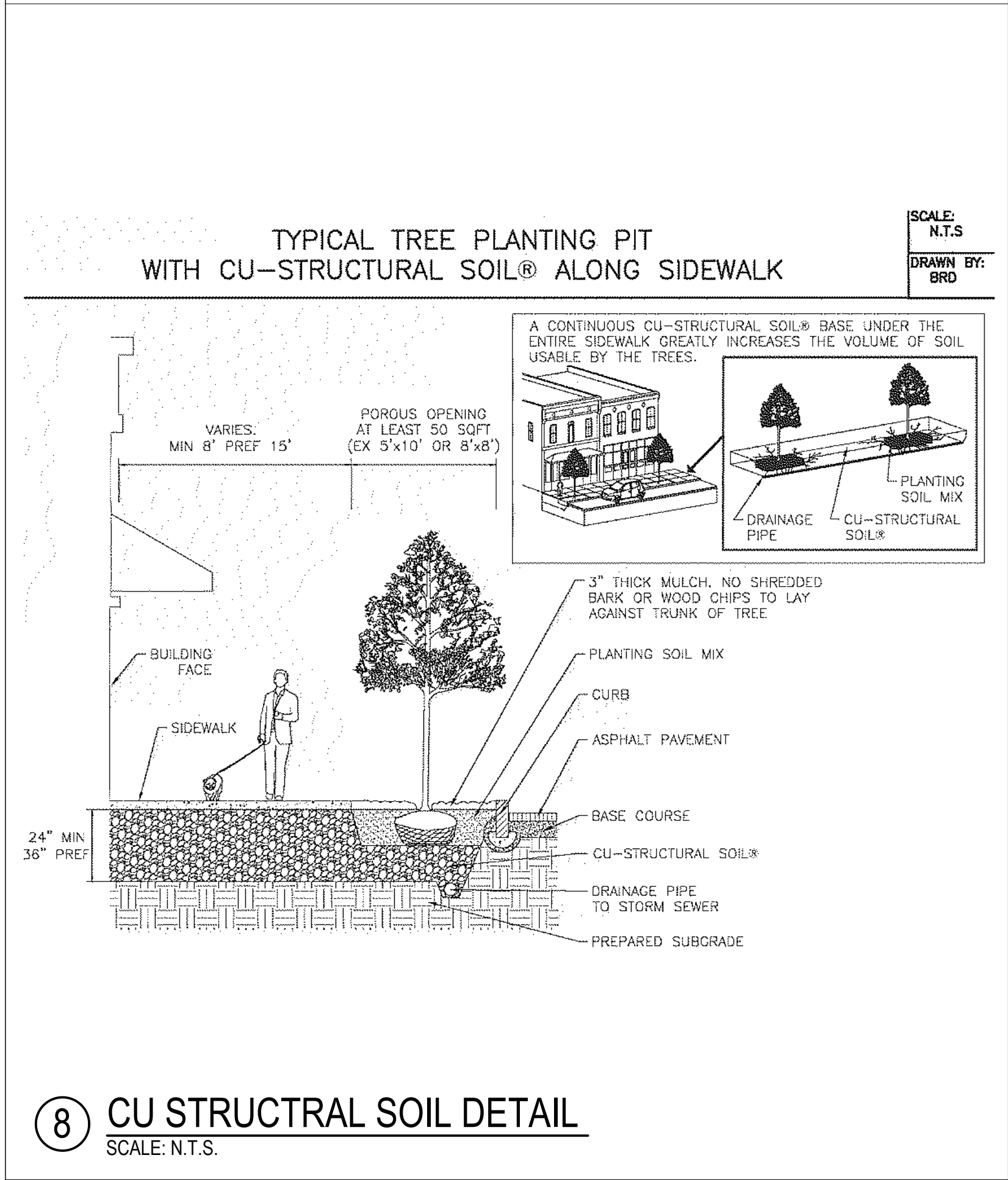
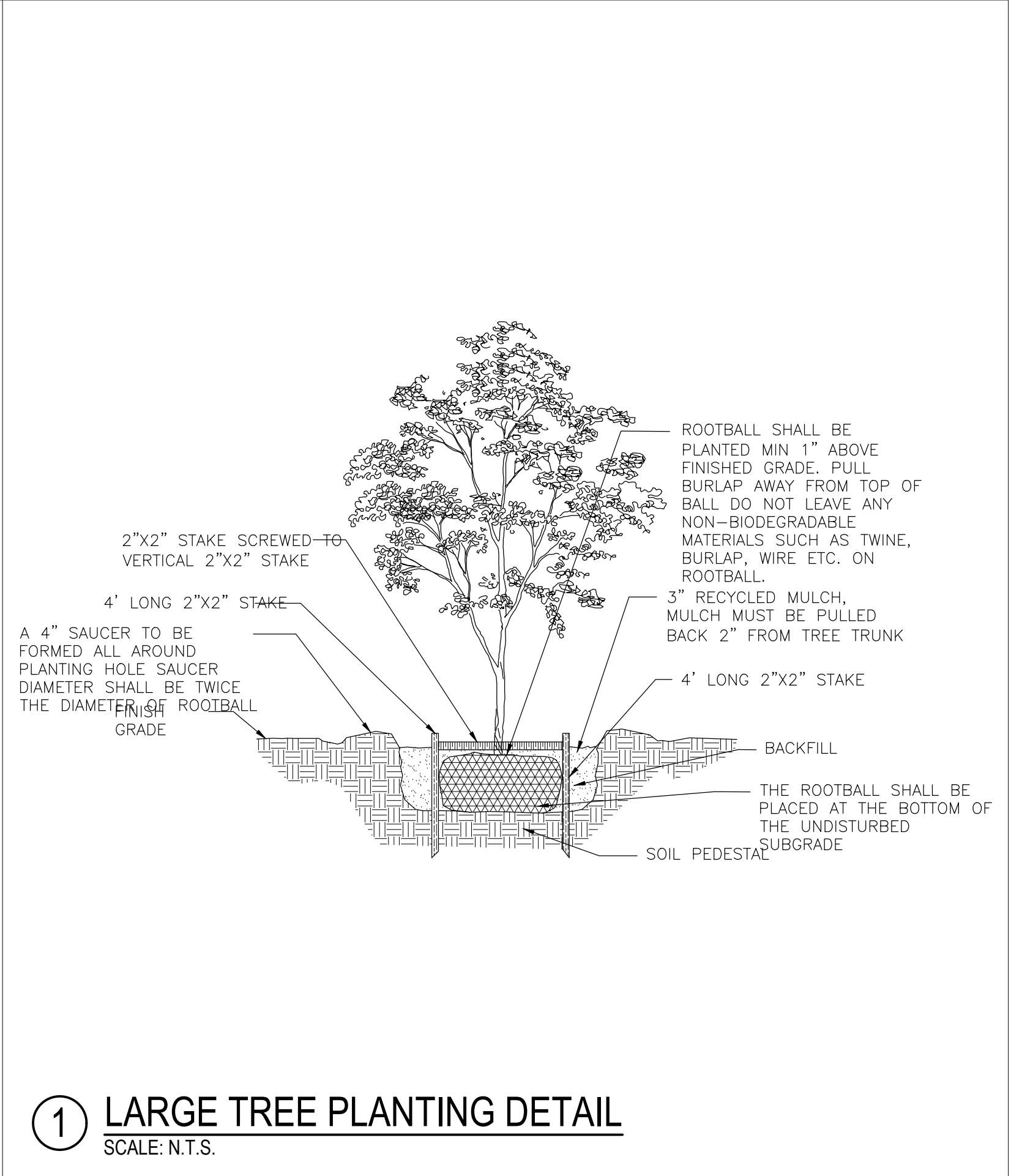
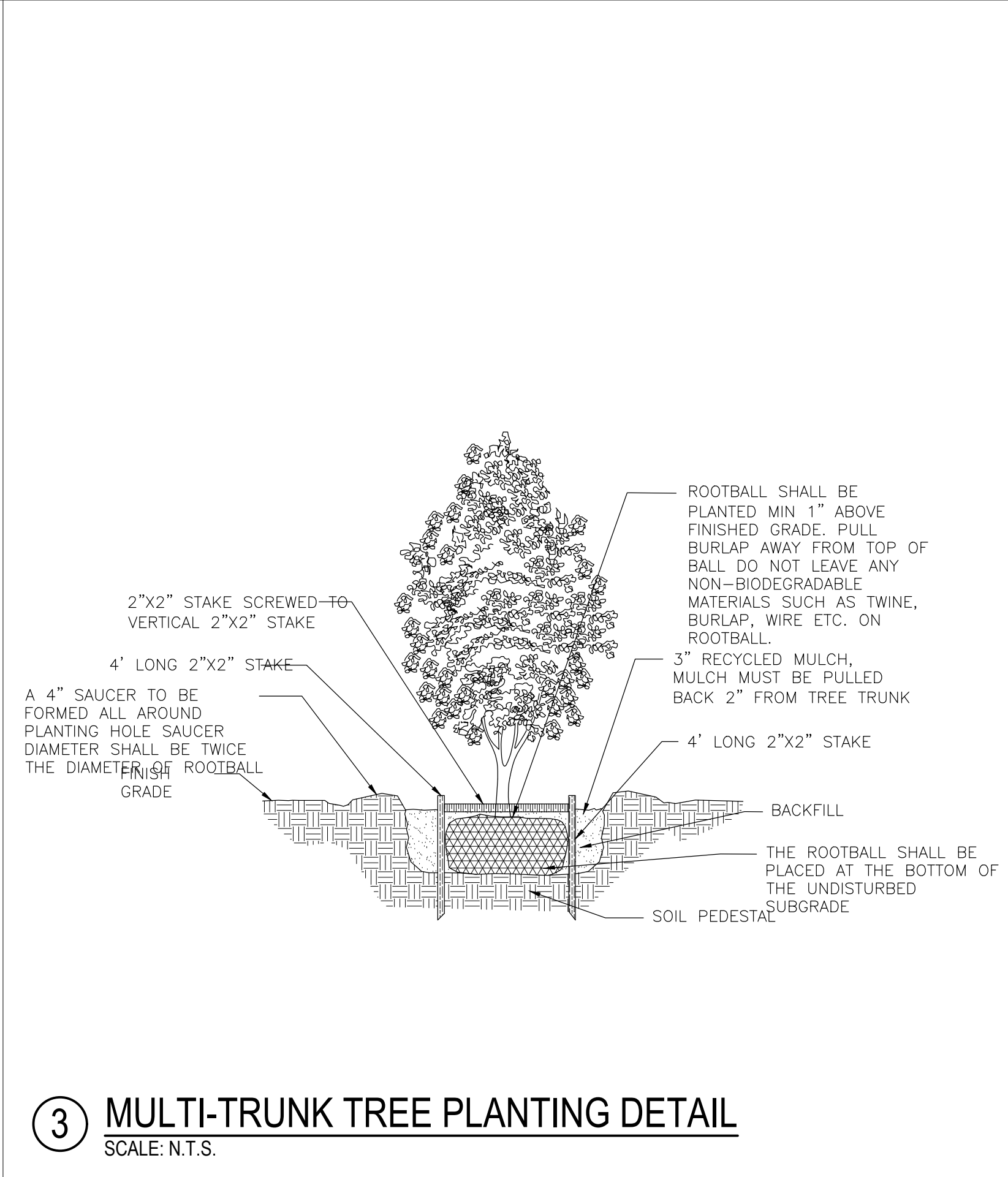
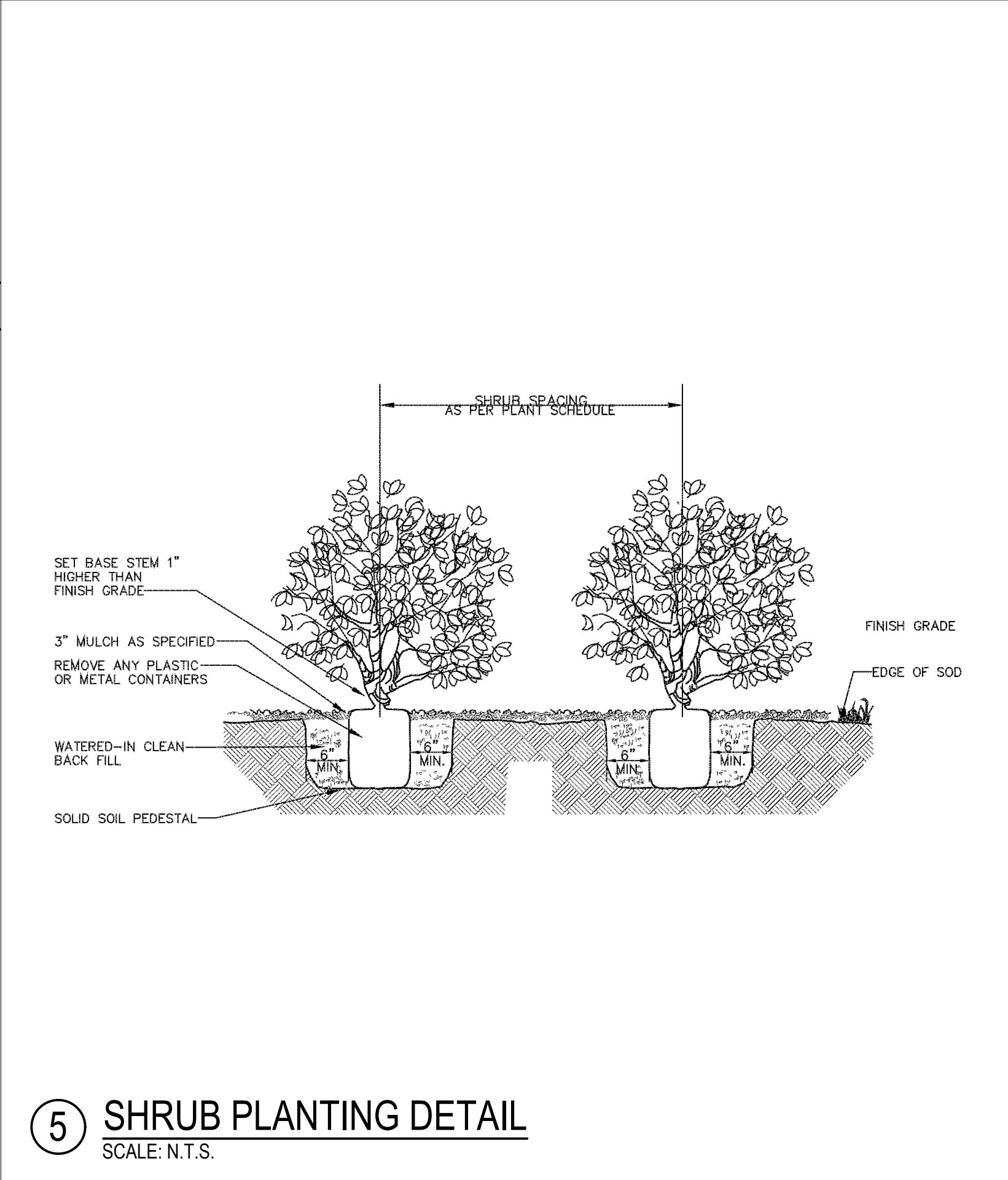
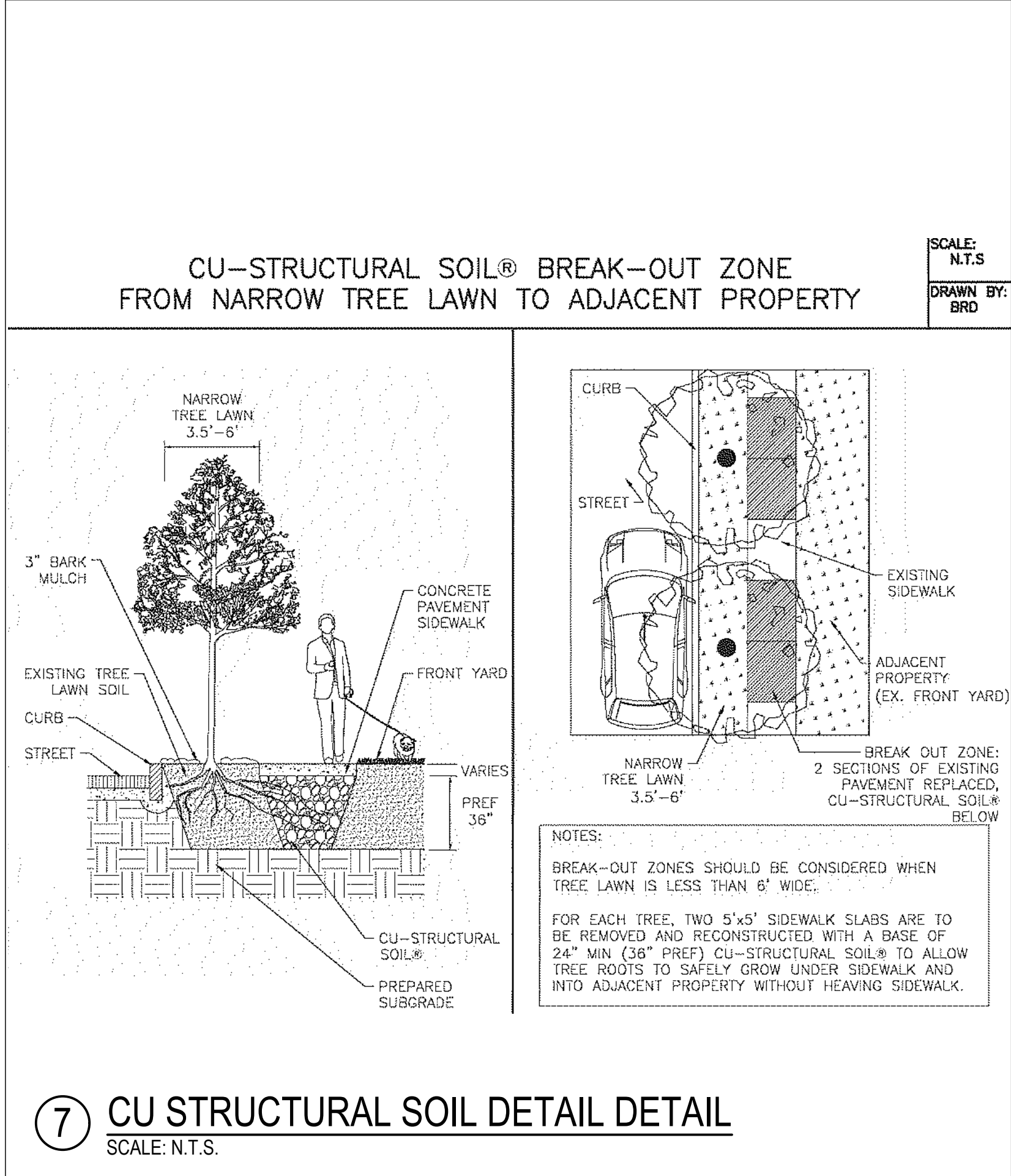




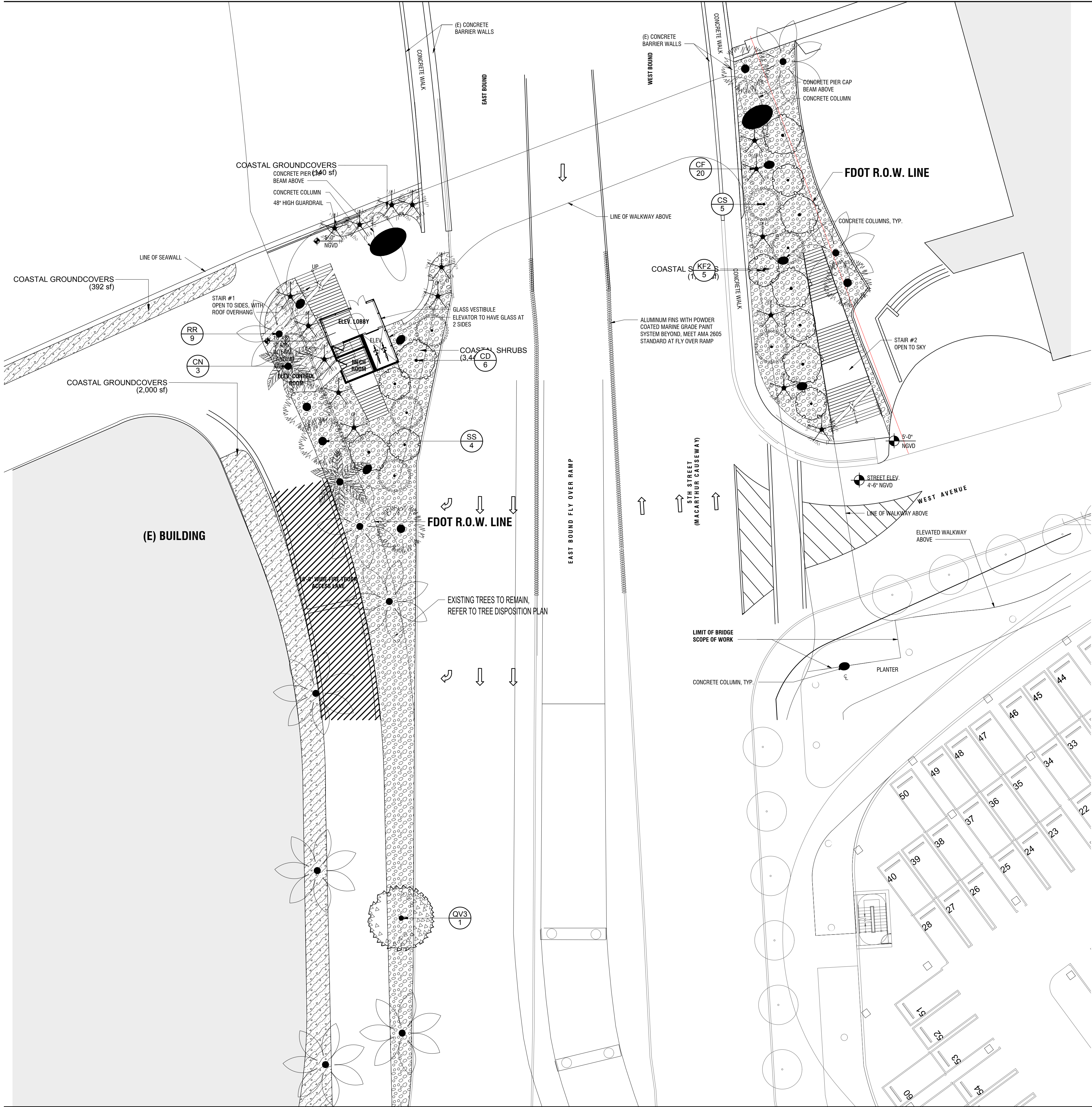


		 <p>4'x4'x2" CONCRETE PAVERS SAND LAYER 6" AGGREGATE BASE PREPARED SUBGRADE REFER TO CIVIL</p>	 <p>4" MIN. THICK GREY CIP CONCRETE SLAB, LIGHT BROOM FINISH AGGREGATE BASE PREPARED SUBGRADE</p>
		<p>③ <u>PEDESTRIAN CONCRETE PAVER DETAIL</u> SCALE: 3/4"=1'-0"</p>	<p>① <u>SIDEWALK DETAIL TYP.</u> SCALE: N.T.S.</p>
			<p>NOTE: VEHICULAR RATED PAVERS IN PUBLIC R.O.W CONSTRUCTION AS PER FDOT REQUIREMENTS</p>  <p>CONCRETE PAVER, MORTAR SET, OFFSET RUNNING BOND- VEHICULAR RATED 6" THICK CONCRETE SLAB PREPARED SUBGRADE VEHICULAR RATED CONCRETE SLAB SUBBASE. REFER TO CIVIL FOR REINFORCEMENT</p>
			<p>② <u>VEHICULAR CONCRETE PAVER DETAIL</u> SCALE: 3/4"=1'-0"</p>









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FIRST DRB SUBMITTAL  
5TH STREET BAYWALK  
PEDESTRIAN CONNECTOR  
BRIDGE  
MIAMI BEACH, FL 33139

GROUND LEVEL IRRIGATION PLAN

04/08/19

LIR1-100



