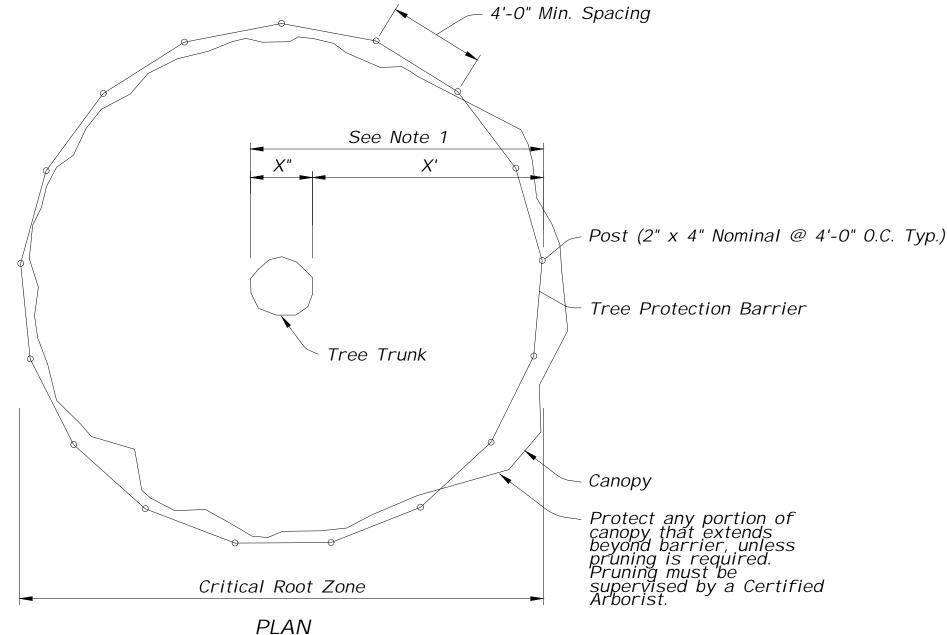


NOTES:

- 1. Critical Root Zone: Extends in all directions from trunk of tree to a distance equal to one foot per inch of trunk diameter at breast height.
- 2. Staging, storage, dumping, washing and operation of equipment is not permitted within the limits of the tree protection barrier, including during barrier installation.

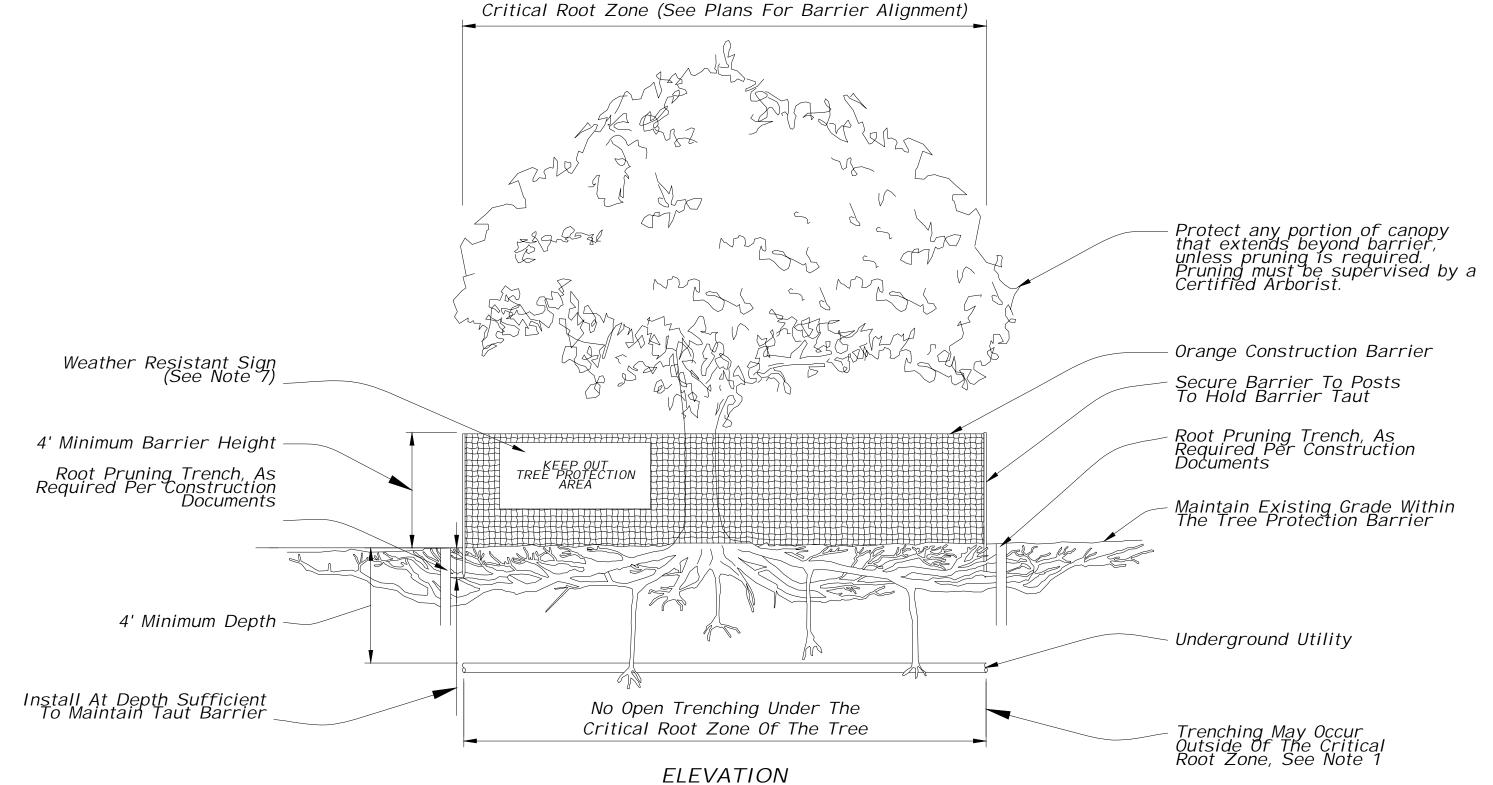
 3. Install all tree protection prior to commencement of
- 3. Install all tree protection prior to commencement of construction and remove when directed by the Engineer. Maintain protection at all times.
- 4. For closely spaced groups of trees, place the tree protection barrier around the entire group.
- 5. Inspect trunk protection and tree quarterly to prevent girdling. Adjust bands to allow tree growth as needed.
- 6. See plans for any additional requirements or modifications within the tree protection area.
- 7. Place weather resistant sign every 50' along the barrier, with 6" minimum text height and provide text in English and Spanish. Sign should read " Keep Out Tree Protection Area".
- 8. Alternate tree protection systems approved by the Engineer may be used in lieu of the tree protection barrier detailed on this Index as long as the critical root zone is protected.
- 9. The Critical Root Zone may be reduced, in the field, by a certified Arborist or Landscape Architect.



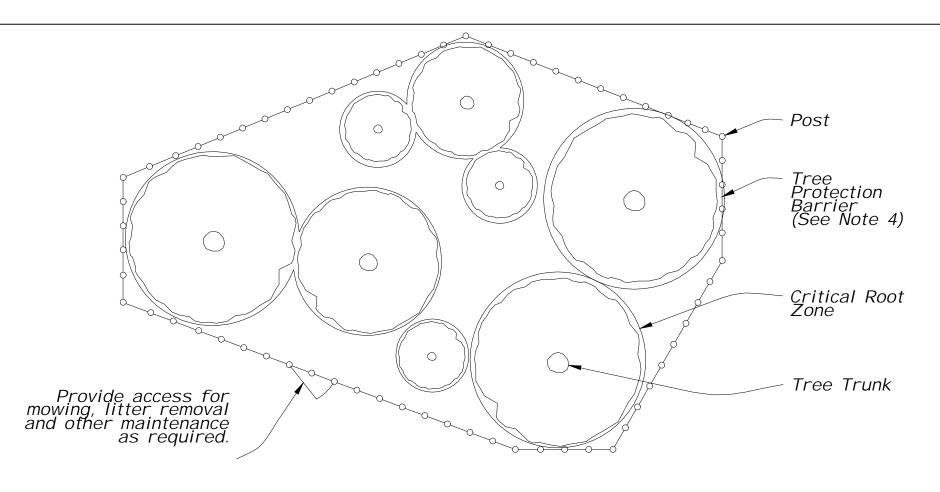
canopy that 'extends beyond barrier, unle pruning is required. Pruning must be supervised by a Cer Arborist.

PLAN

itical Root Zone (See Plans For Barrier Alignment)

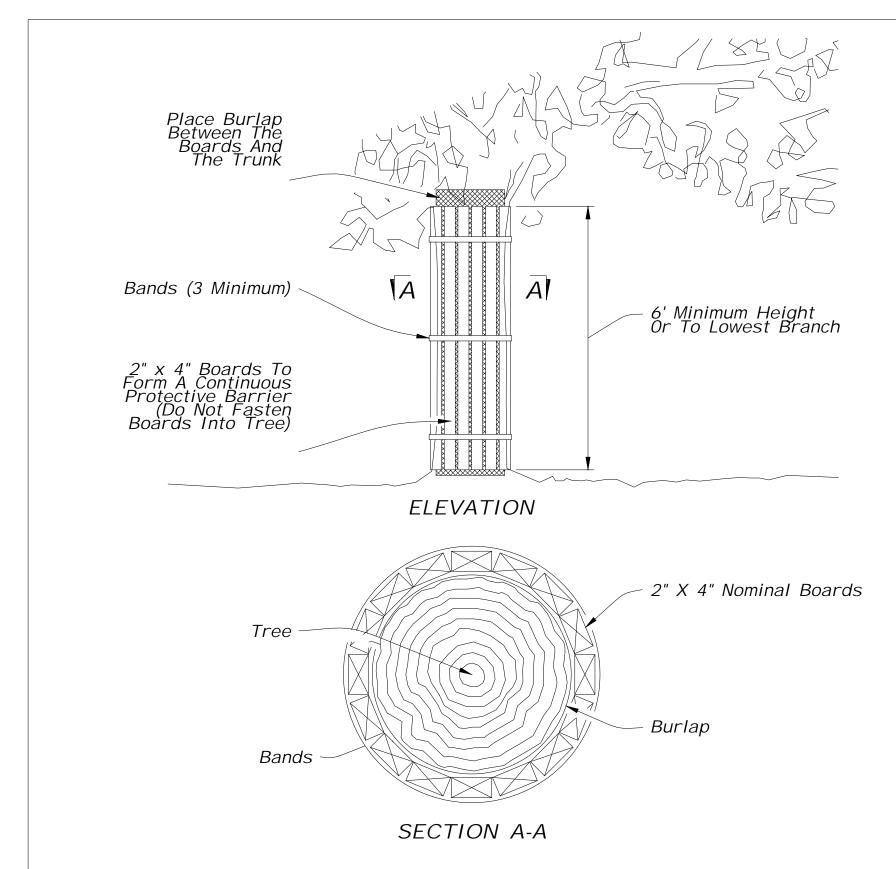


TREE PROTECTION BARRIER:



PLAN

= PROTECTION BARRIER FOR TREE GROUPINGS:



NOTES:

- Trunk protection may be used when Tree Protection Barrier can not be reasonably erected, when approved by Engineer.
- 2. See Selective Clearing and Grubbing Plan for location of trunk protection, when applicable.
- 3. Adjust bands to allow tree growth (inspect quarterly to prevent girdling).

= TRUNK PROTECTION :

Revision | Comparison | Compar



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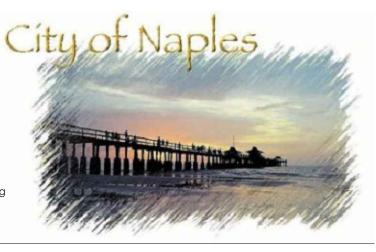
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File Name:

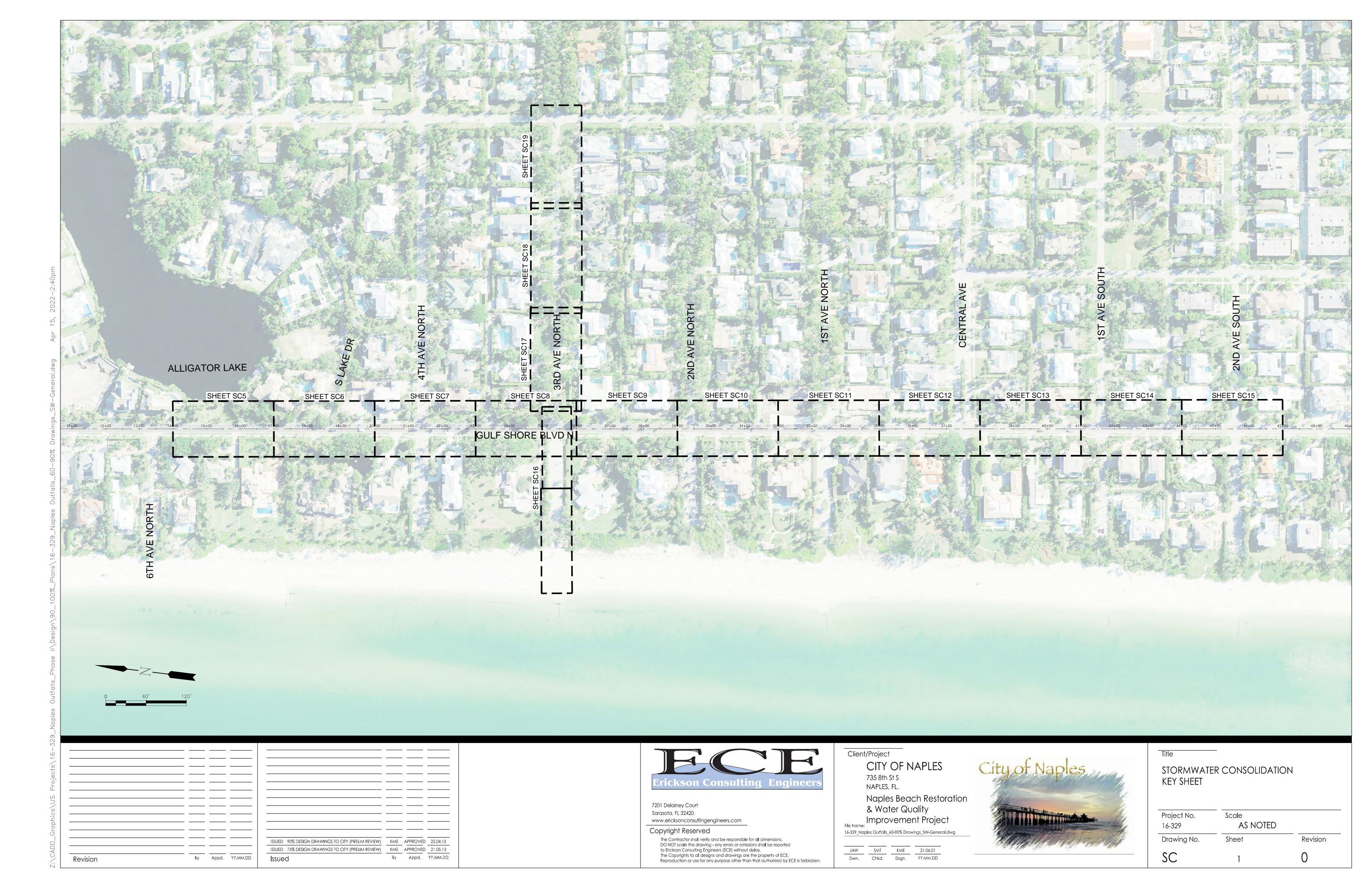
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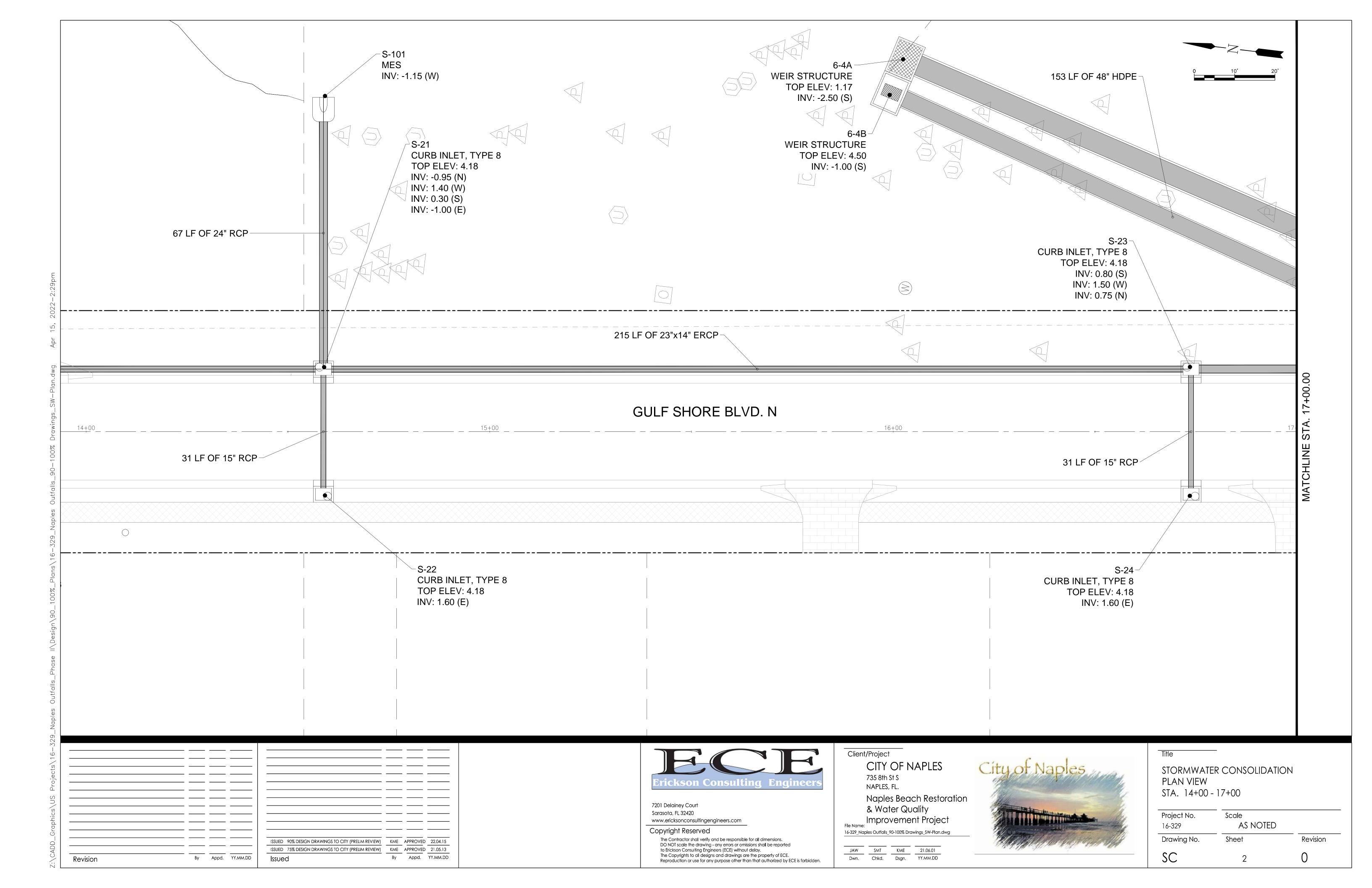
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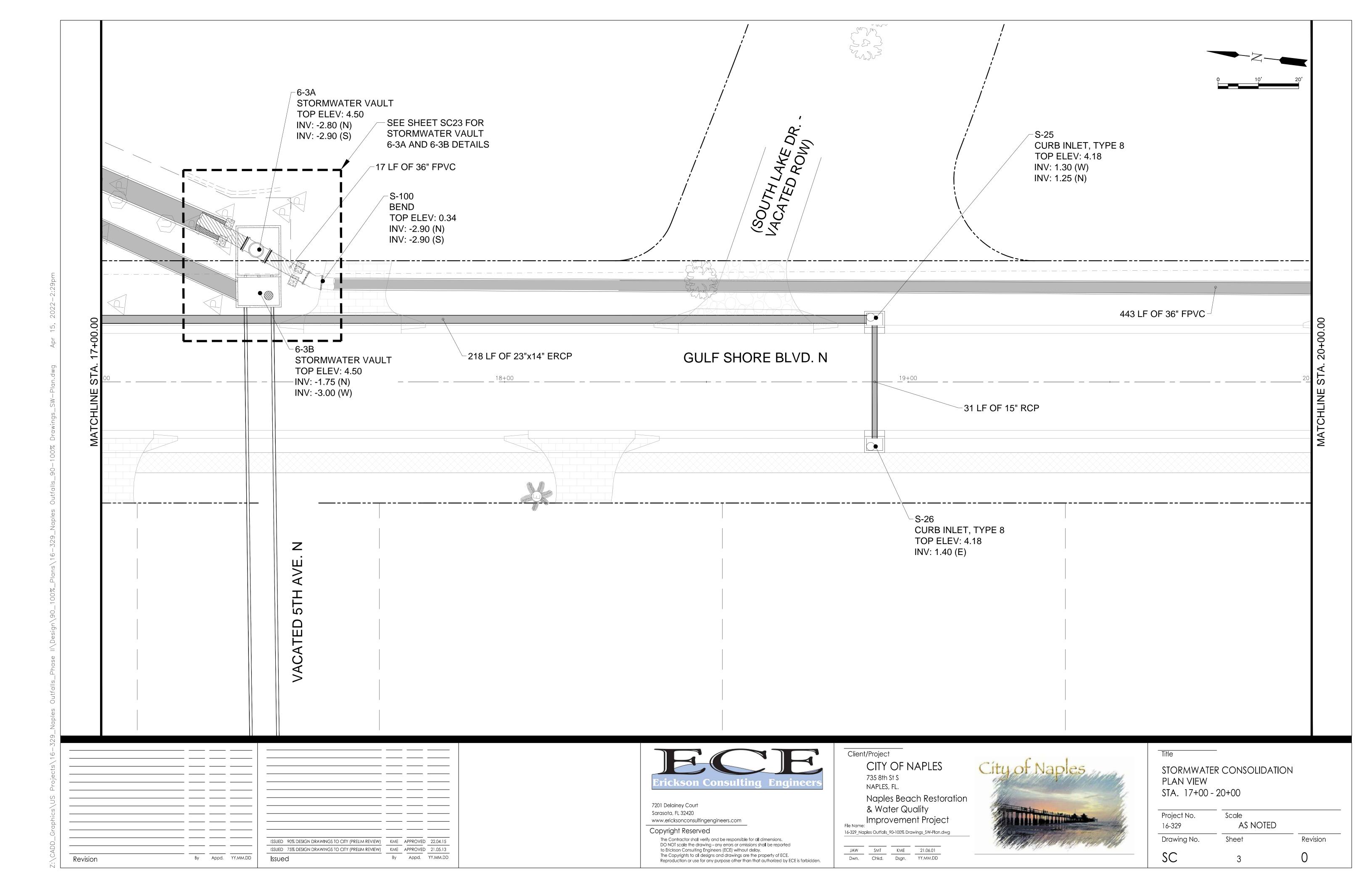


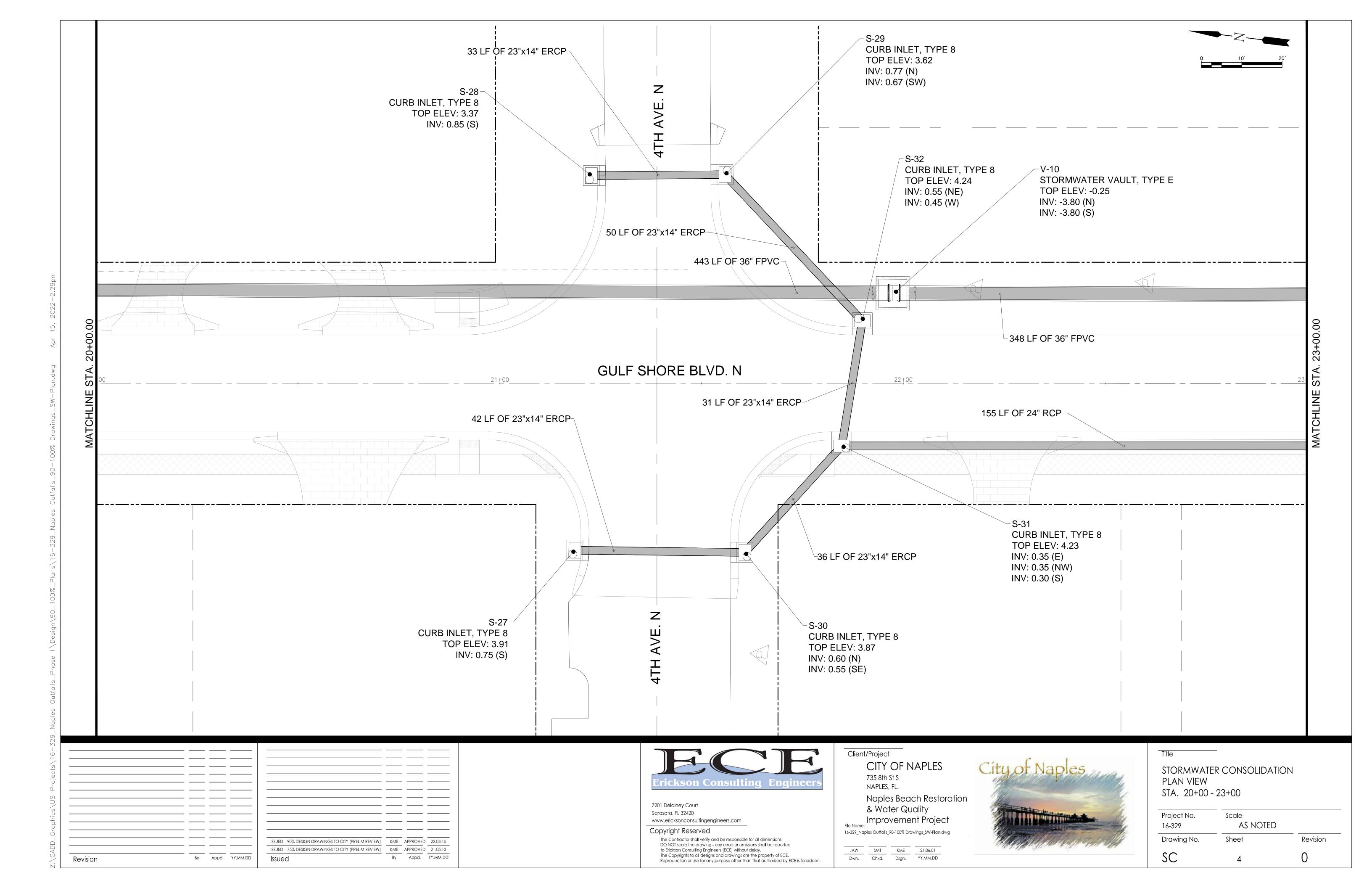
CONSTRUCTION ACCESS & STAGING PLAN TREE PROTECTION DETAILS

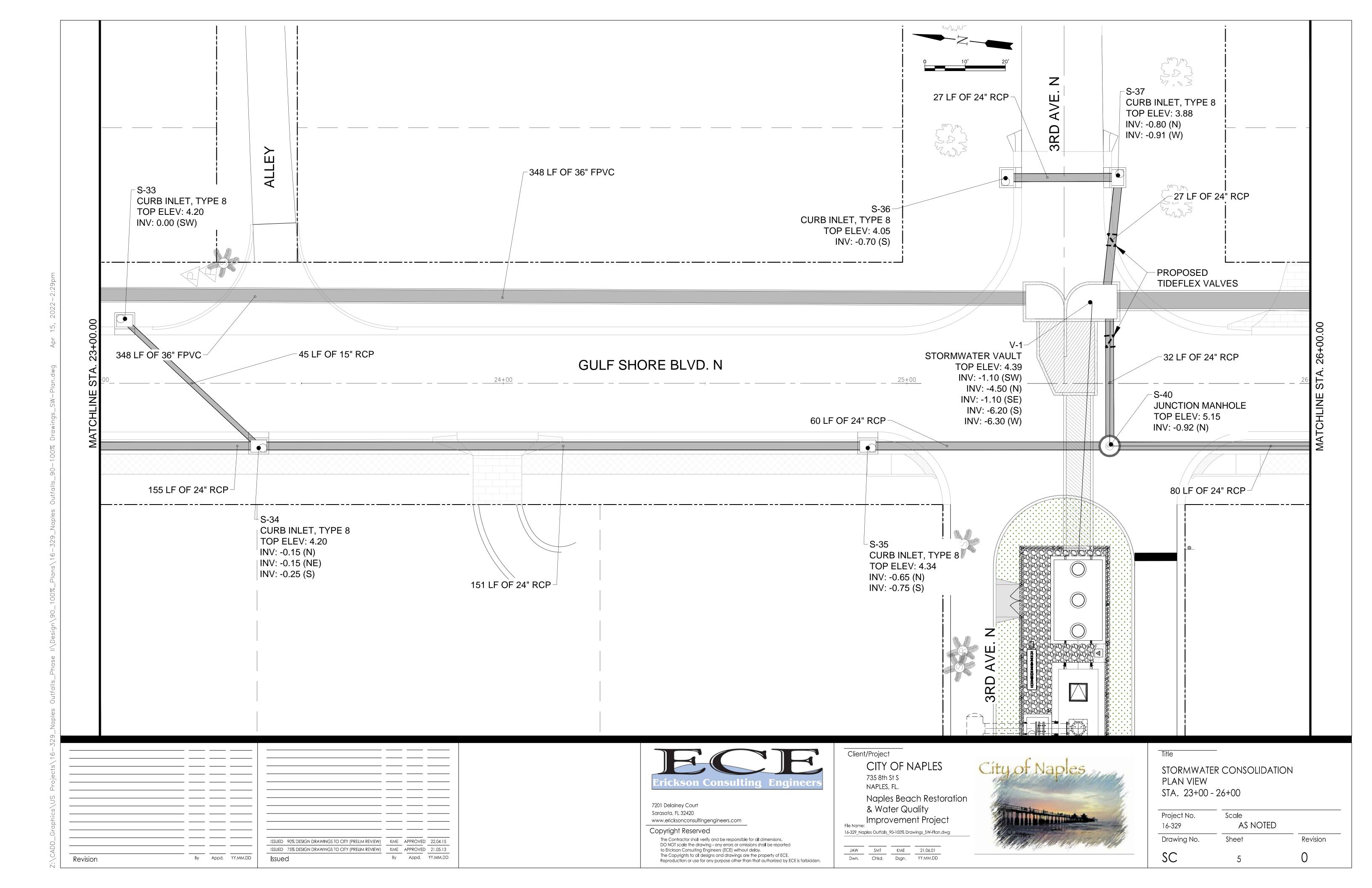
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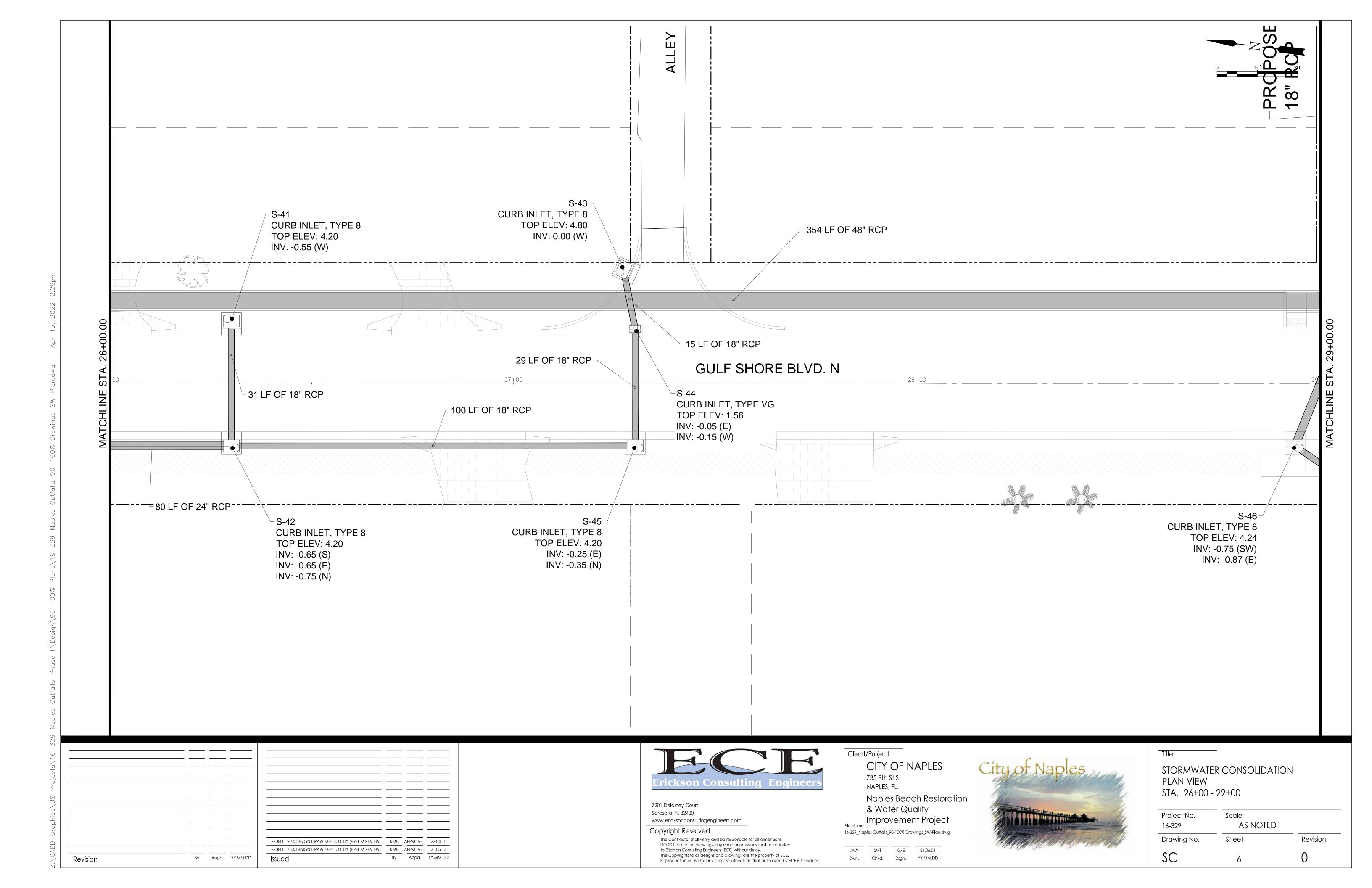


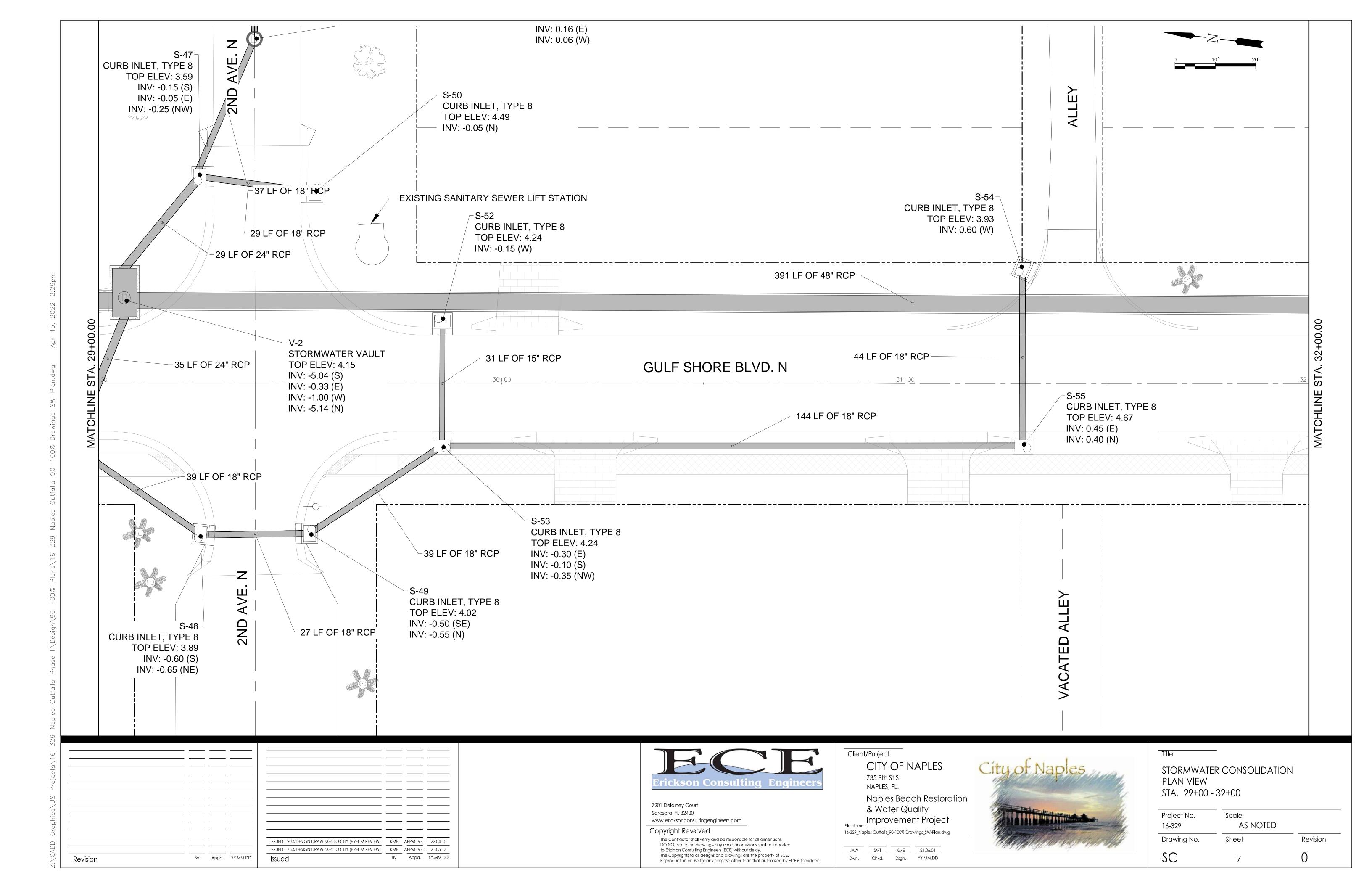


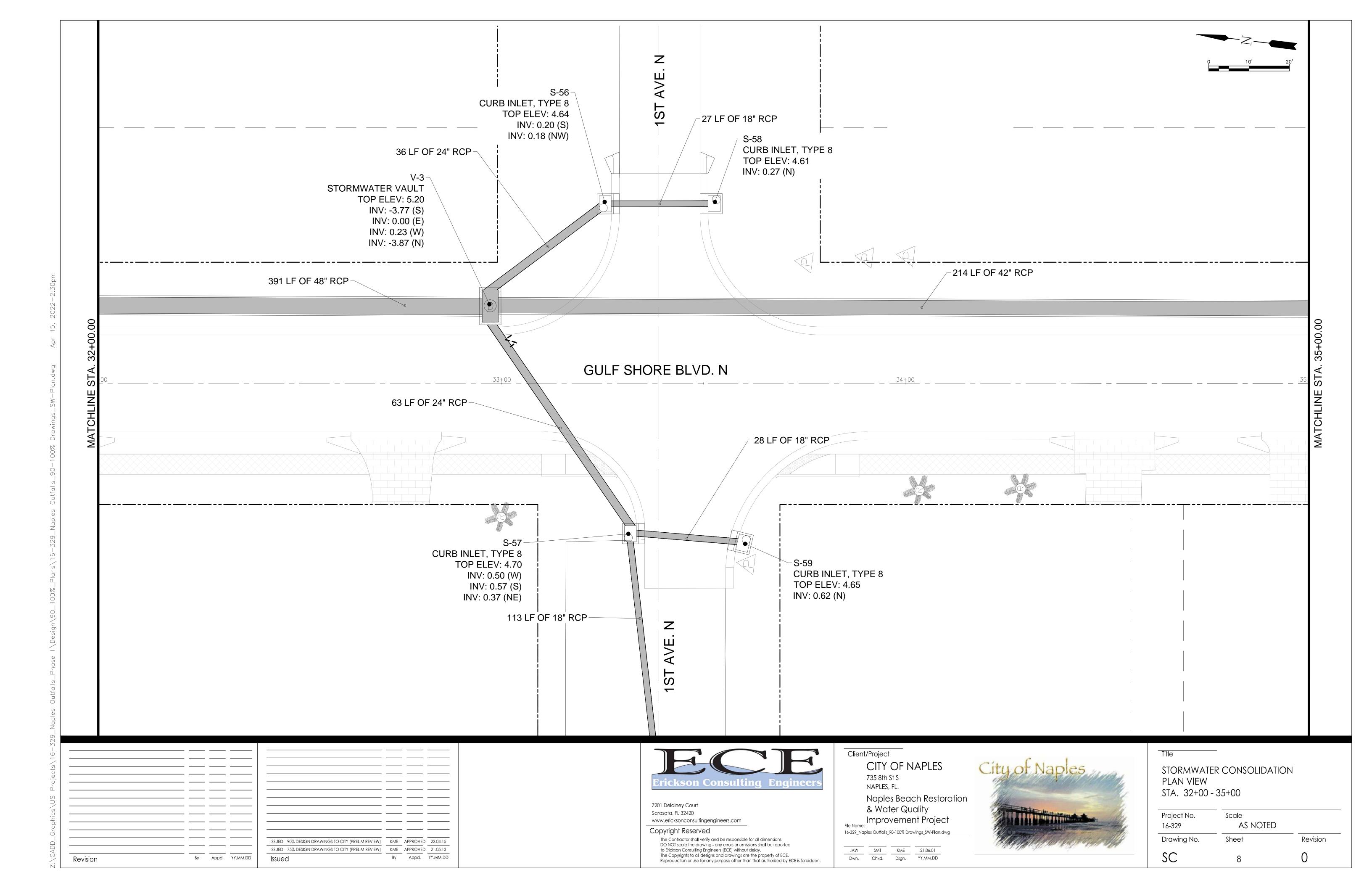


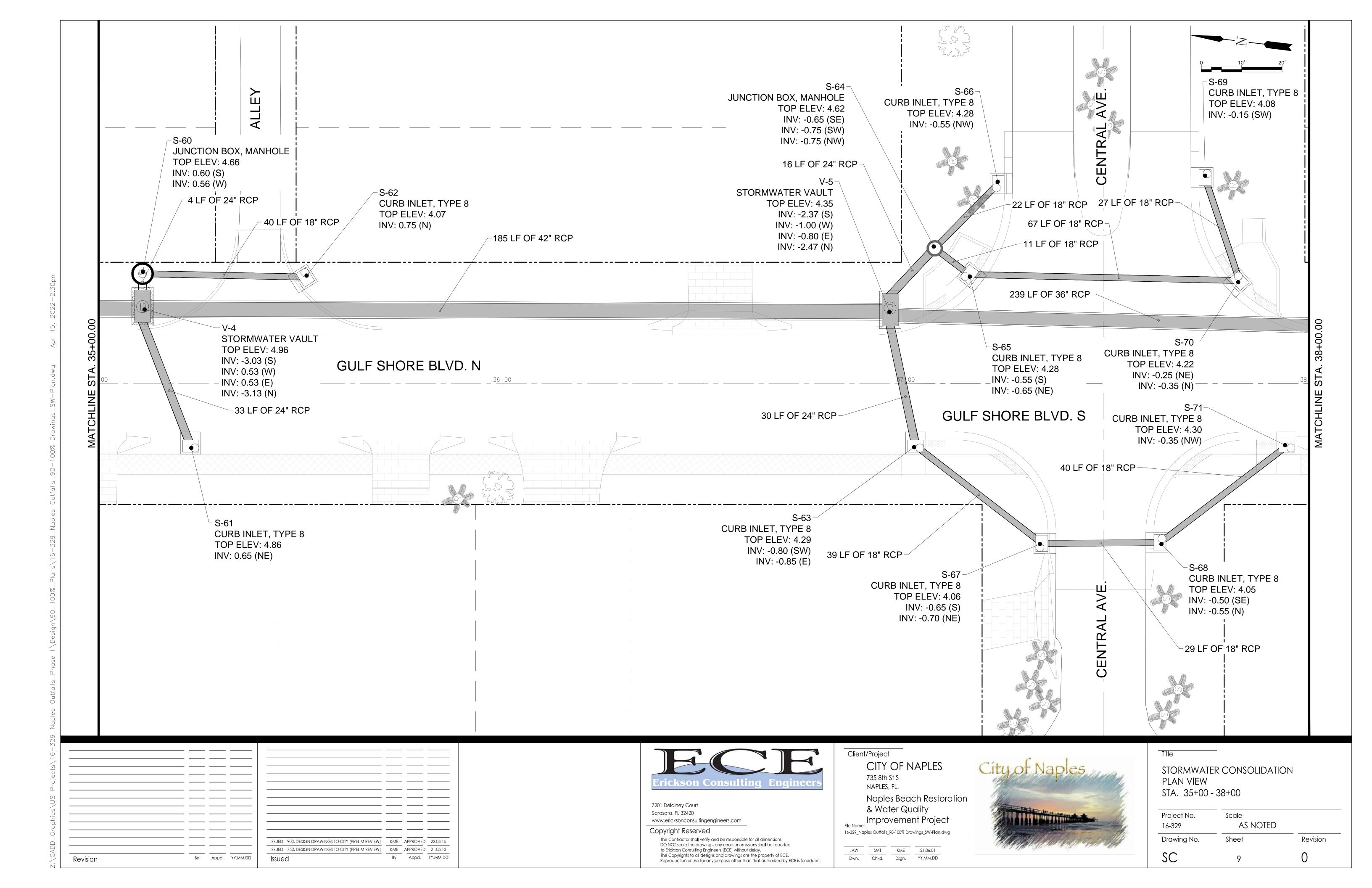


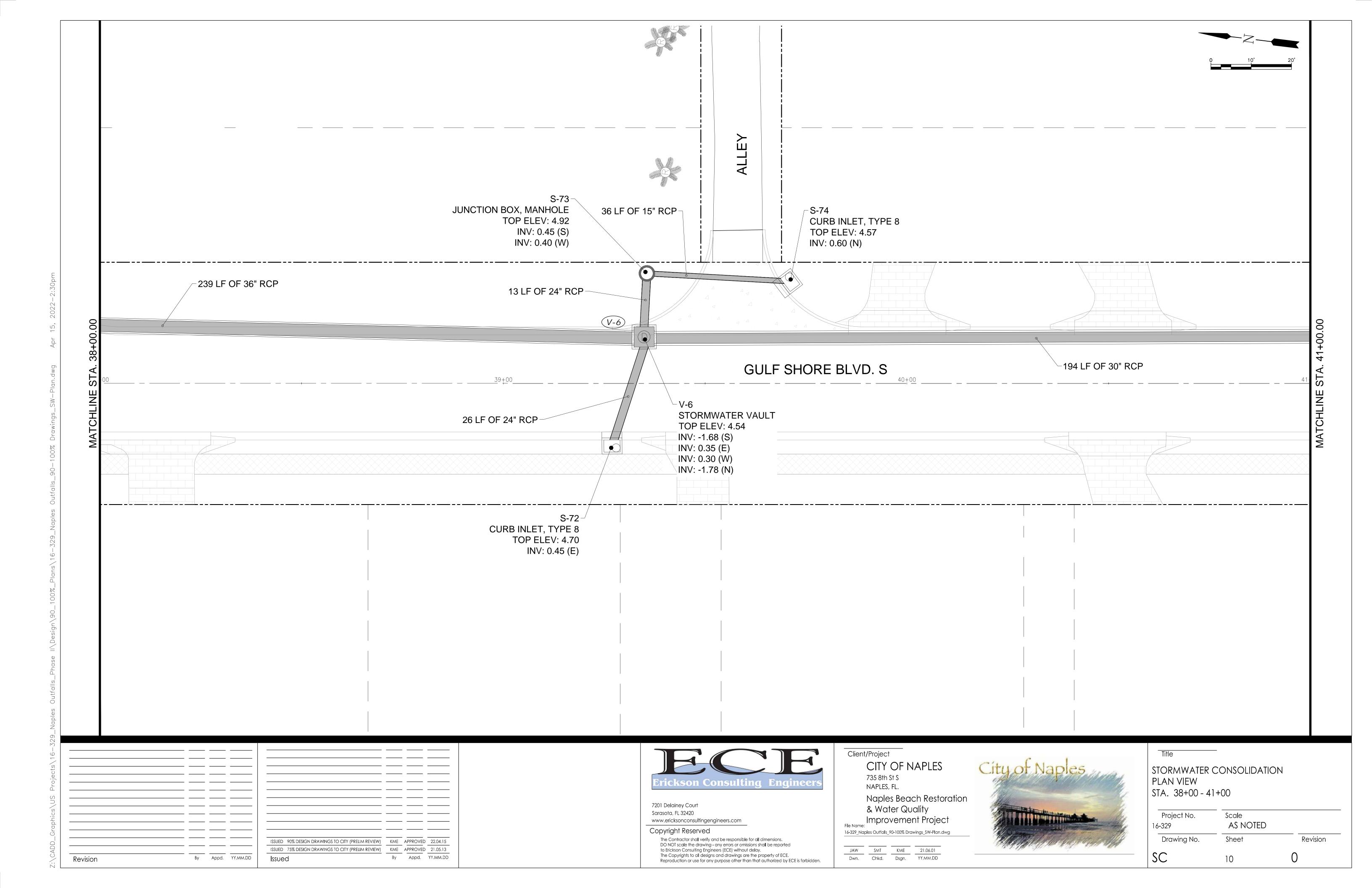


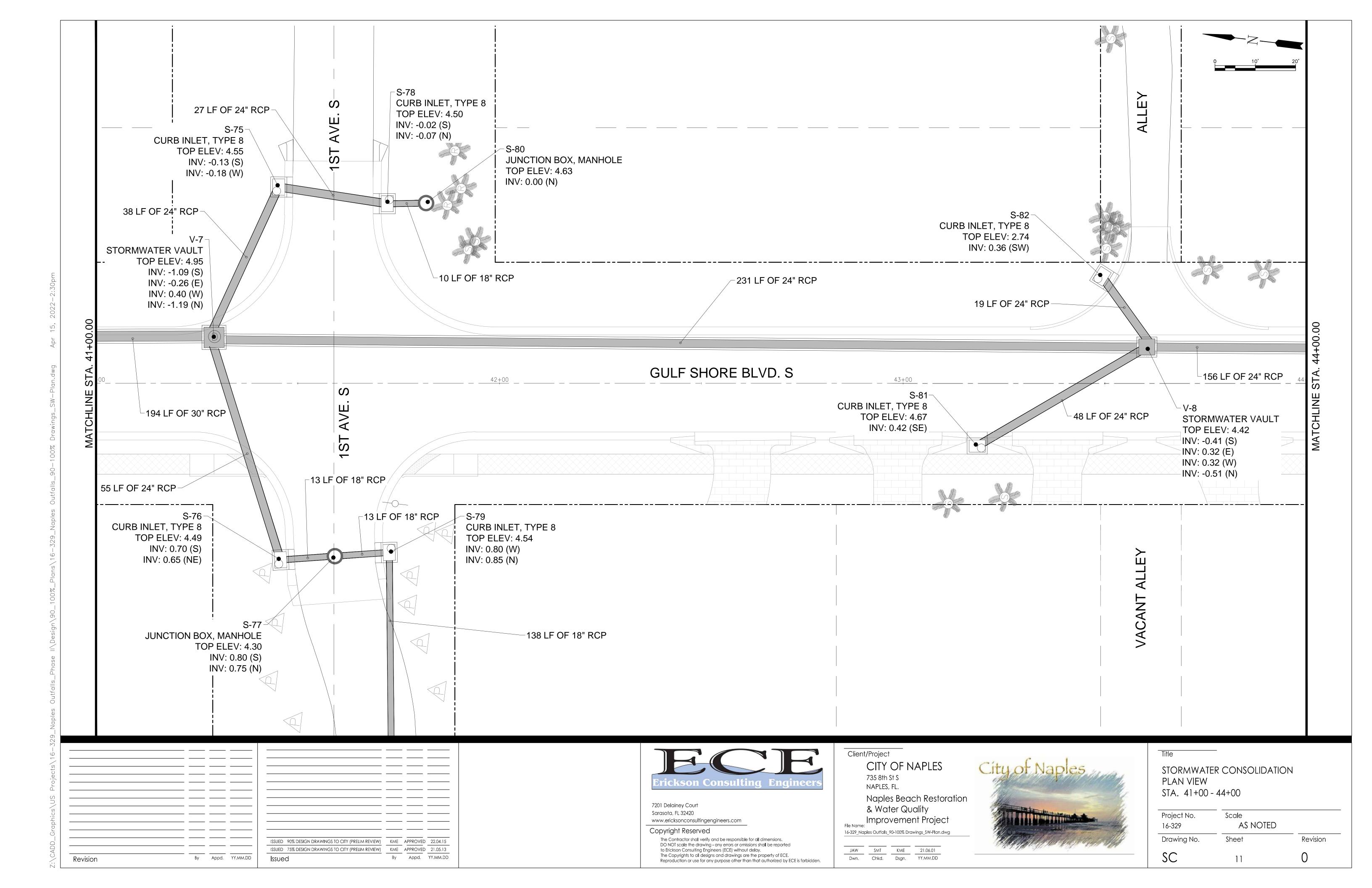


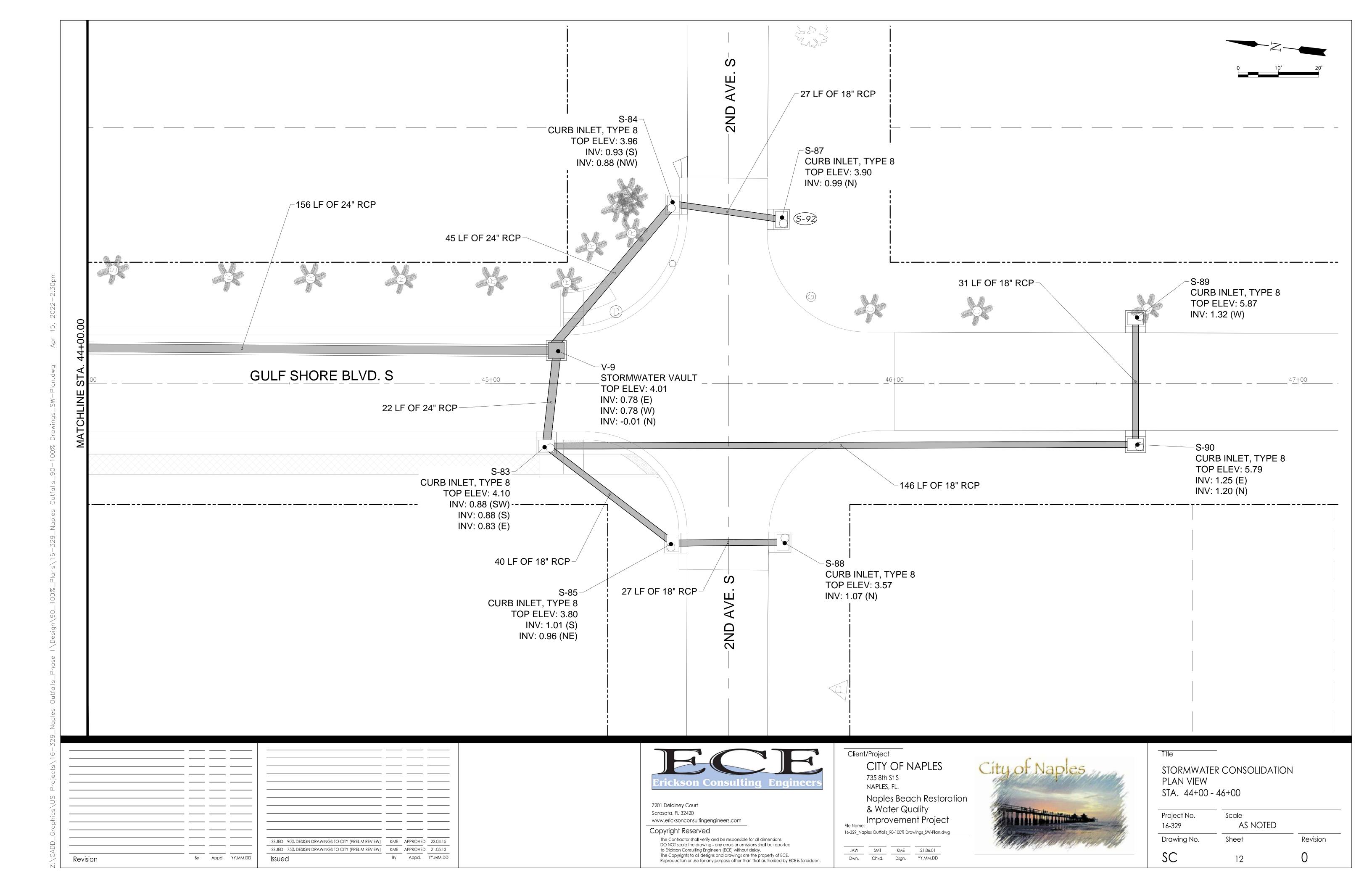


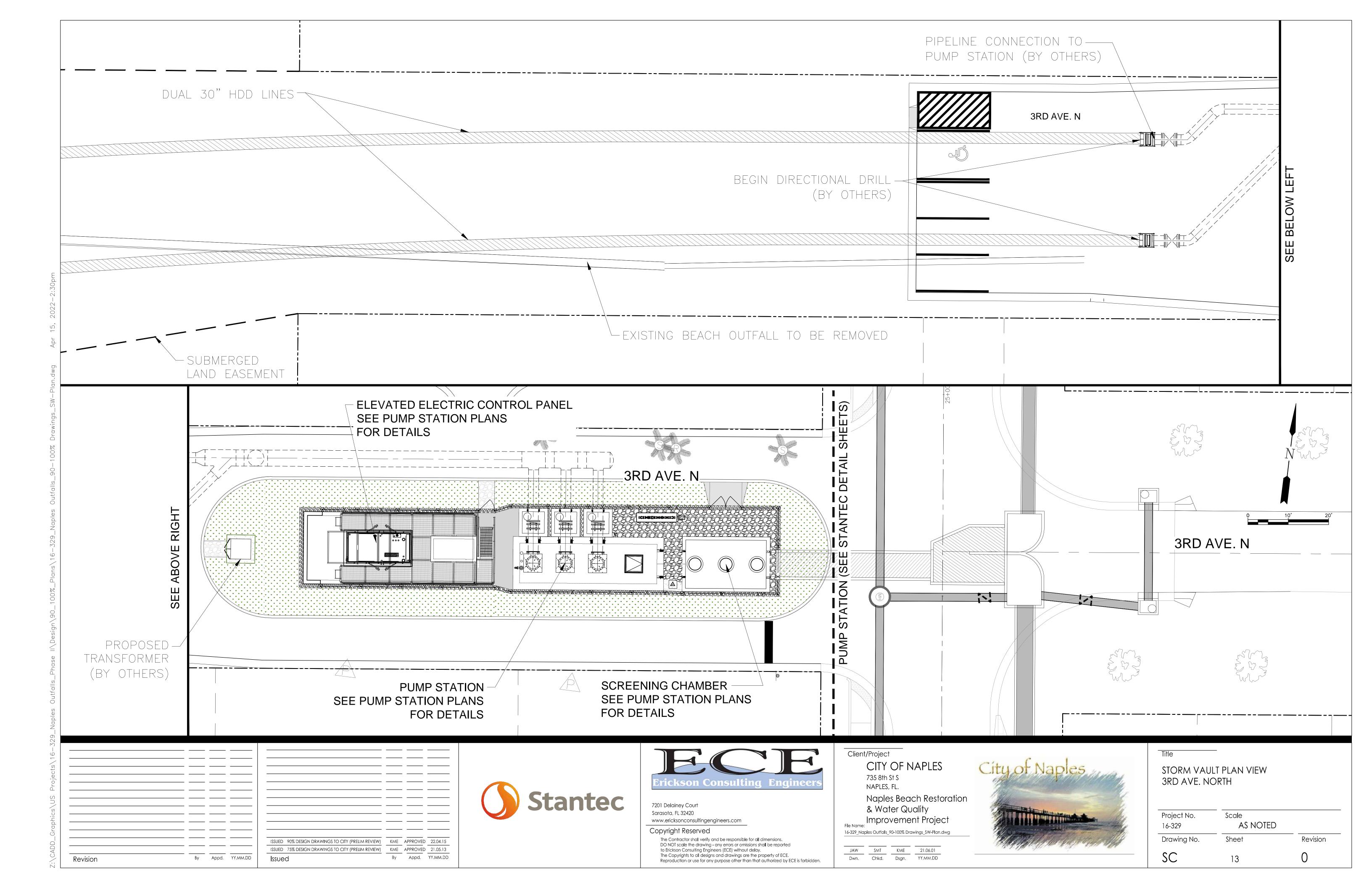


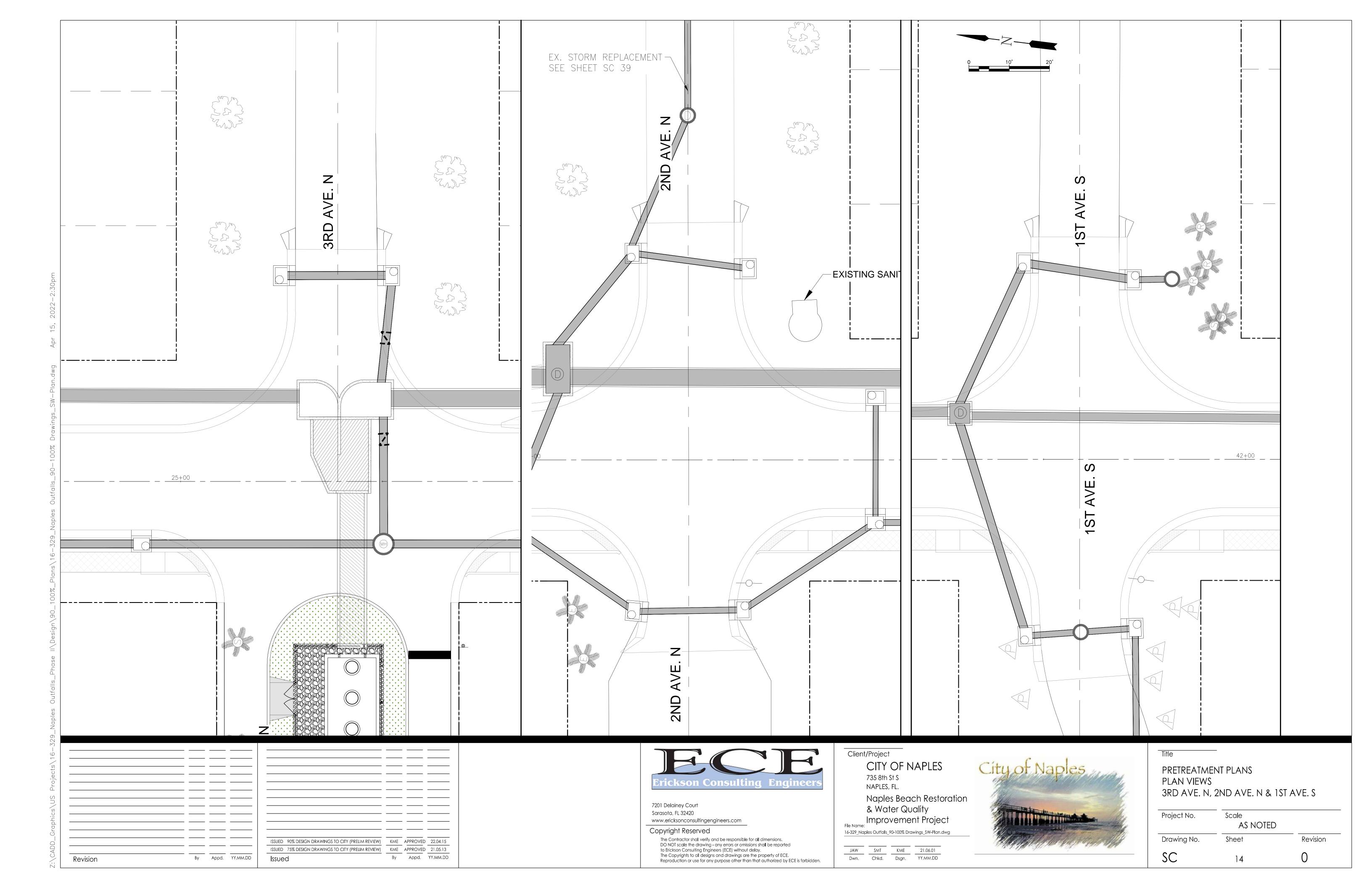




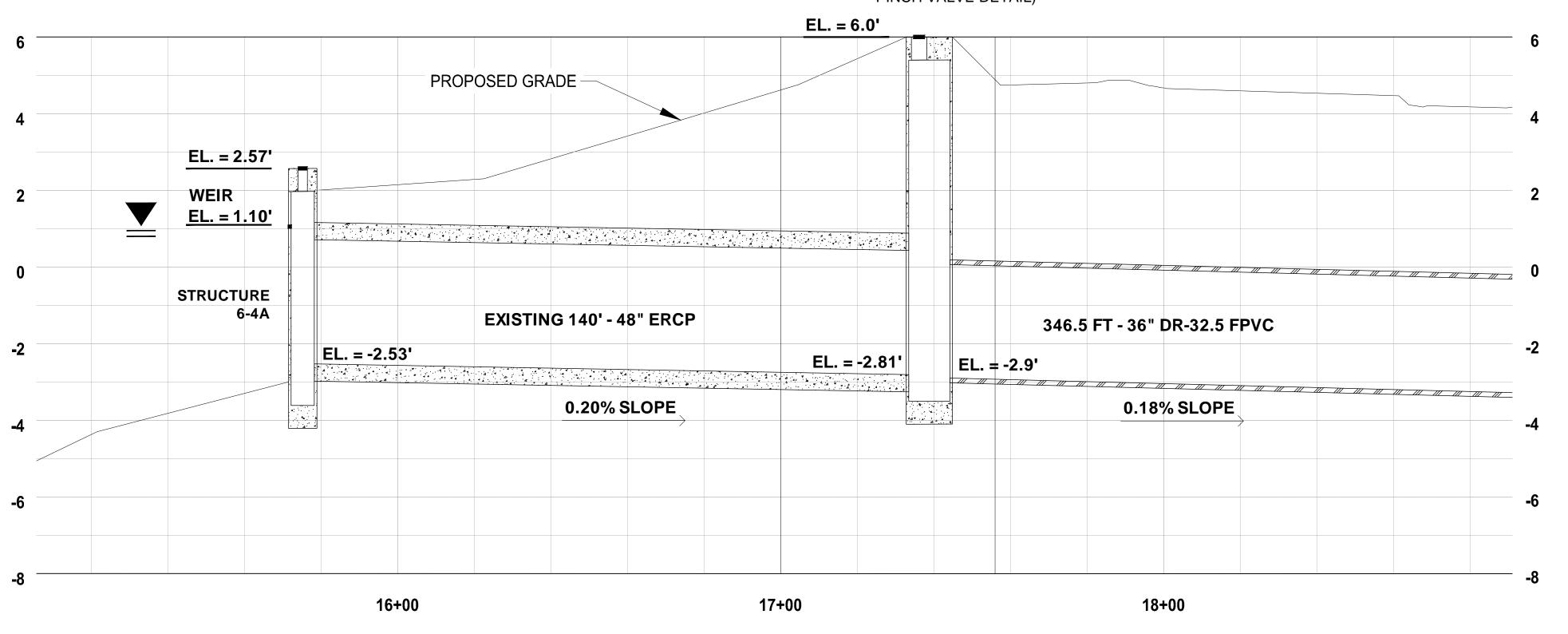








VAULT 6-3
TOP ELEV. = 6.0'
BOTTOM OF VAULT = -3.45'
NE INV -2.81' 48" RCP
S INV -2.81' 36" FPVC
(SEE SHEET # SC-32 FOR
PINCH VALVE DETAIL)



DISTANCE (FT)

GULFSHORE BLVD SCALE: 1"=20' (H)

1"=2' (V)

					-		
							
				-			
				ISSUED 90% DESIGN DRAWINGS TO CITY (PRELIM REVIEW)	KME	APPROVED	22.04.15
				ISSUED 75% DESIGN DRAWINGS TO CITY (PRELIM REVIEW)	KME	APPROVED	21.05.13
Revision	By	Appd.	YY.MM.DD	Issued	Ву	Appd.	YY.MM.DD



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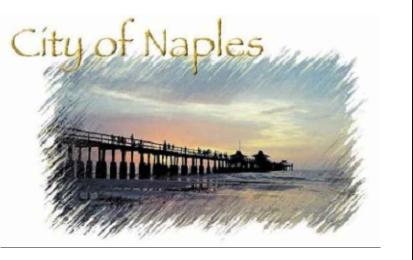
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PROFILE VIEW STA. 13+00 - 18+50

Project No.
16-329

Drawing No.

Scale
AS NOTED

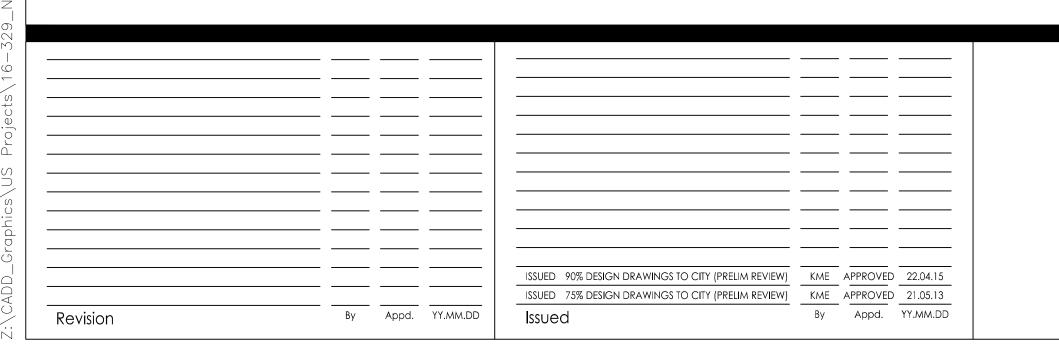
Revision

SC

15

0

VAULT 6-2A MANHOLE TOP ELEV. = 4.3' TOP OF VAULT = 3.3' BOTTOM OF VAULT = -6.2' N INV -3.7' 36" FPVC S INV -3.8' 36" FPVC PROPOSED GRADE PROPOSED GRADE 346.5 FT - 36" DR-32.5 FPVC 449 FT - 36" DR-32.5 FPVC EL. = -3.80.18% SLOPE 19+00 20+00 22+00 24+00 21+00 23+00 DISTANCE (FT) **GULFSHORE BLVD** SCALE: 1"=20' (H) 1"=2' (V)



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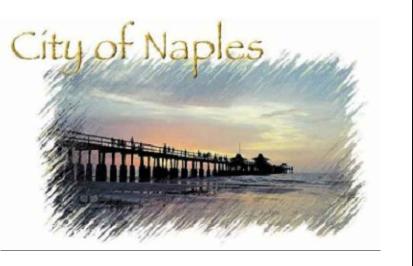
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PROI	FILE VIEW
STA.	18+50 - 24+0

Project No. 16-329	Scale AS NOTED	
Drawing No.	Sheet	Revision
SC	16	0

VAULT 2 VAULT 1 TYPE "J" BOX MANHOLE TOP = 4.4' MANHOLE TOP = 4.3' TOP OF VAULT = 4.4' TOP OF VAULT = 3.8' N INV -4.5' 36" FPVC N INV -5.2' 48" ADS OR RCP E INV -0.78 24" RCP SE INV -0.33' 24" RCP S INV -6.1' 48" ADS-HP S INV -5.1' 48" ADS OR RCP SW INV -1.5 24" RCP W INV -1.0' 24" RCP W INV -6.2' 4'x6' BOX CULVERT EL. = 4.4' PROPOSED GRADE PROPOSED GRADE 798 FT - 36" DR-32.5 FPVC 390 FT - 48" PIPE CULVERT, ADS OR RCP 353 FT - 48" PIPE CULVERT, ADS OR RCP EL. = -4.5'EL. = -5.1' EL. = -5.2' 0.18% SLOPE 0.25% SLOPE 0.25% SLOPE 27+00 25+00 26+00 28+00 29+00 30+00 1+00 DISTANCE (FT) **GULFSHORE BLVD** SCALE: 1"=20' (H) 1"=2'(V)

Revision

| SSUED 90% DESIGN DRAWINGS TO CITY (PRELIM REVIEW) | KME | APPROVED | 22.04.15 | SSUED | 75% DESIGN DRAWINGS TO CITY (PRELIM REVIEW) | KME | APPROVED | 21.05.13 | AP



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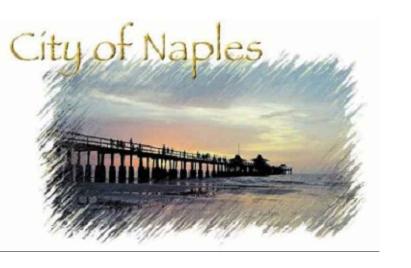
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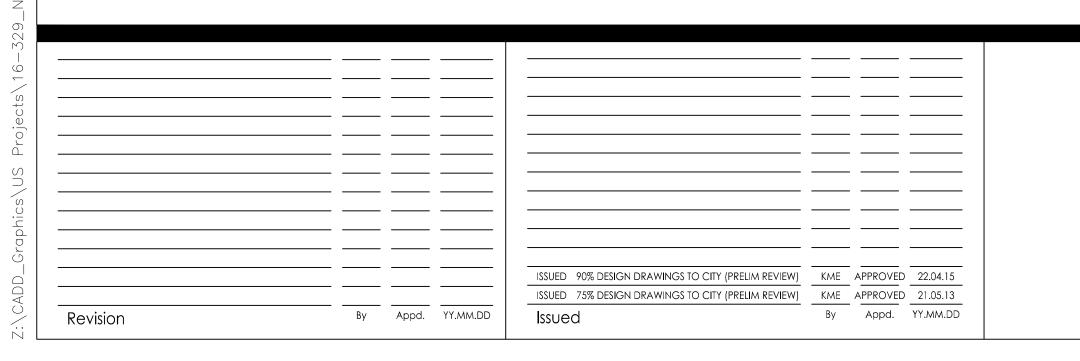
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PROFILE VIEW STA. 24+00 - 30+00

Project No. 16-329	Scale AS NOTED	
Drawing No.	Sheet	Revision
SC	17	0

VAULT 3 VAULT 4 TYPE "J" BOX TYPE "J" BOX MANHOLE TOP = 5.2' MANHOLE TOP = 5.0' TOP OF VAULT = 3.5' TOP OF VAULT = 4.2' N INV -4.1' 48" ADS OR RCP N INV -3.5' 42" ADS OR RCP SE INV 0.0' 24" RCP E INV 0.5' 24" RCP S INV -4.0' 42" ADS OR RCP S INV -3.4' 42" ADS OR RCP SW INV 0.23' 24" RCP SW INV 0.5' 24" RCP PROPOSED GRADE -PROPOSED GRADE 214 FT - 42" PIPE CULVERT, ADS OR RCP 390 FT - 48" PIPE CULVERT, ADS OR RCP EL. = -3.5' EL. = -4.1' | EL. = -4.0' RCP 0.26% SLOPE 0.25% SLOPE **30+00** 31+00 32+00 33+00 34+00 35+00 DISTANCE (FT) **GULFSHORE BLVD** SCALE: 1"=20' (H) 1"=2' (V)





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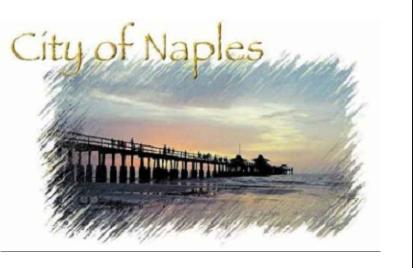
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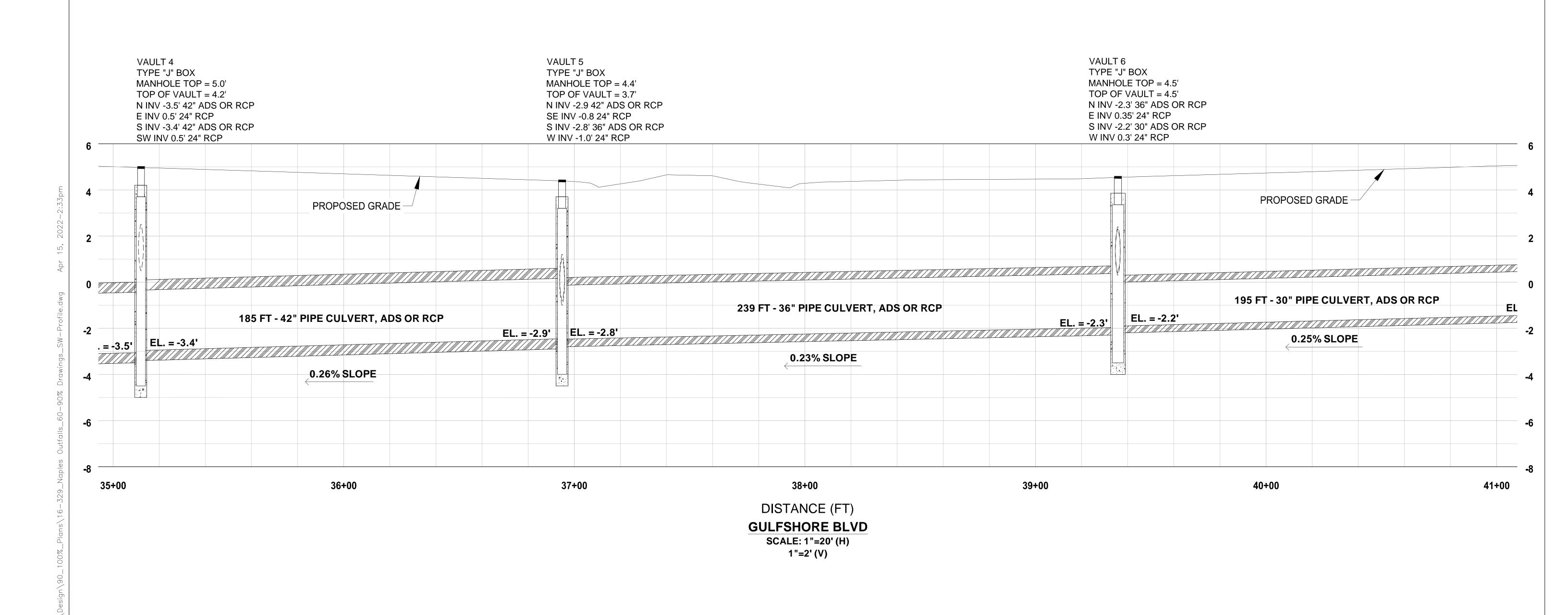
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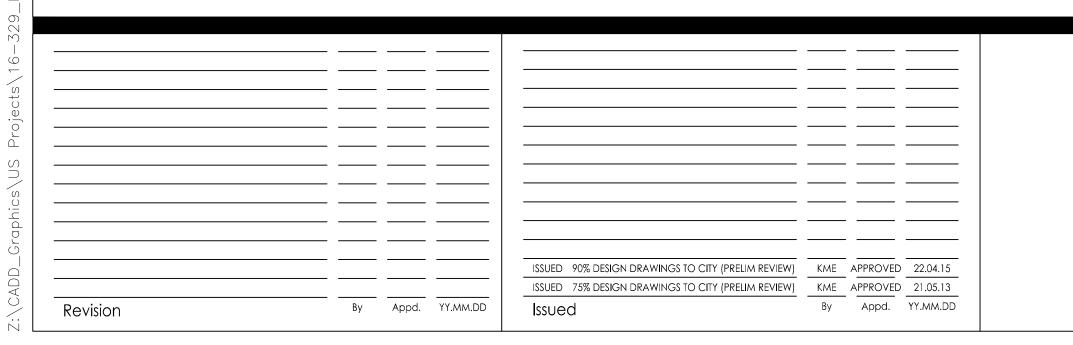
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PROFILE VIEW STA. 30+00 - 35+00

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Sheet	Revision
18	0
	Sheet







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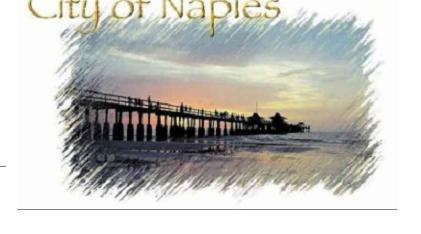
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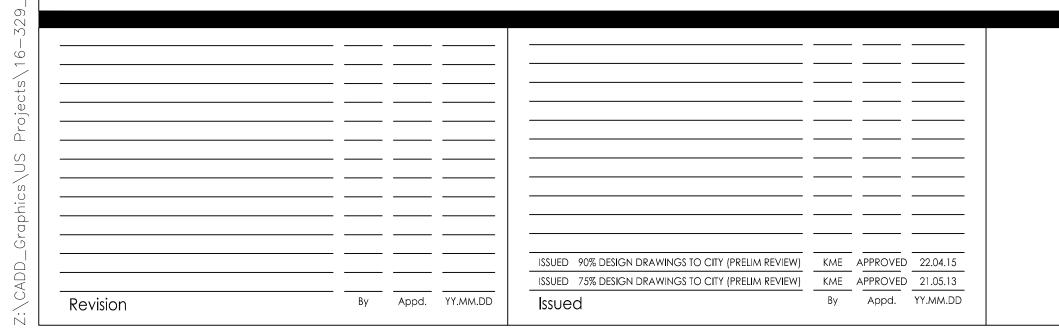


PROFILE VIEW STA. 35+00 - 41+00

Project No. 16-329	Scale AS NOTED	
Drawing No.	Sheet	Revision
SC	19	0

VAULT 7 VAULT 8 VAULT 9 TYPE "J" BOX TYPE "J" BOX TYPE "J" BOX MANHOLE TOP = 4.9' MANHOLE TOP = 4.4' MANHOLE TOP = 4.0' TOP OF VAULT = 4.4' TOP OF VAULT = 4.9' TOP OF VAULT = 4.0' N INV -1.7' 30" ADS OR RCP N INV -1.0' 24" ADS OR RCP N INV -0.6' 24" ADS OR RCP S INV -1.6' 24" ADS OR RCP NW INV 0.75' 24" ERCP W INV -0.55' 24" RCP SW INV 0.4' 24" RCP S INV -0.9' 24" ADS RCP SE INV -0.10' 24" RCP E INV 0.0' 24" RCP E INV 0.7' 24" ERCP PROPOSED GRADE -156 FT - 24" PIPE CULVERT, ADS OR RCP EL. = -0.6' 231 FT - 24" PIPE CULVERT, ADS OR RCP EL. = -0.9' EL. = -1.0' EL. = -1.6' EL. = -1.7' 0.23% SLOPE 0.23% SLOPE 42+00 43+00 44+00 45+00 41+00 DISTANCE (FT)

GULFSHORE BLVD
SCALE: 1"=20' (H)
1"=2' (V)





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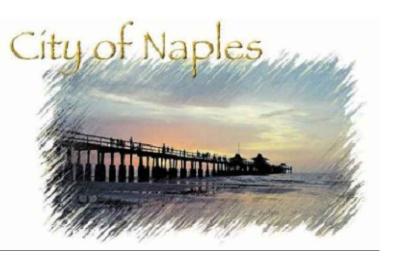
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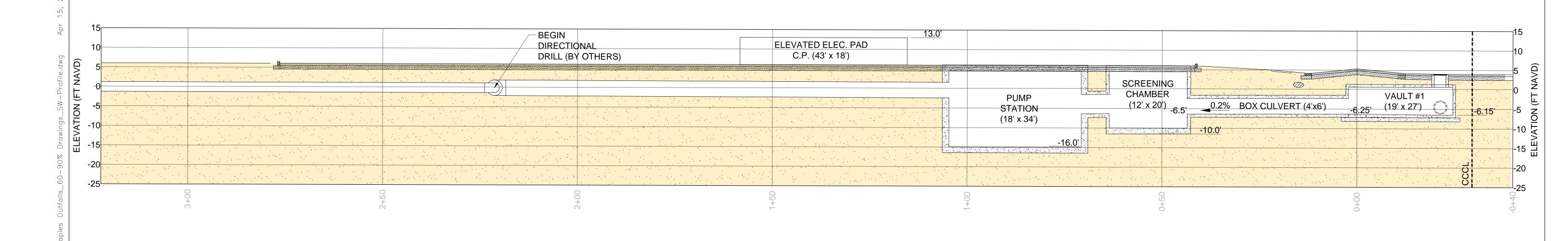
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PRO	FILE VIEW
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Revision

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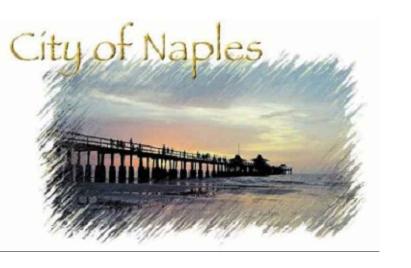
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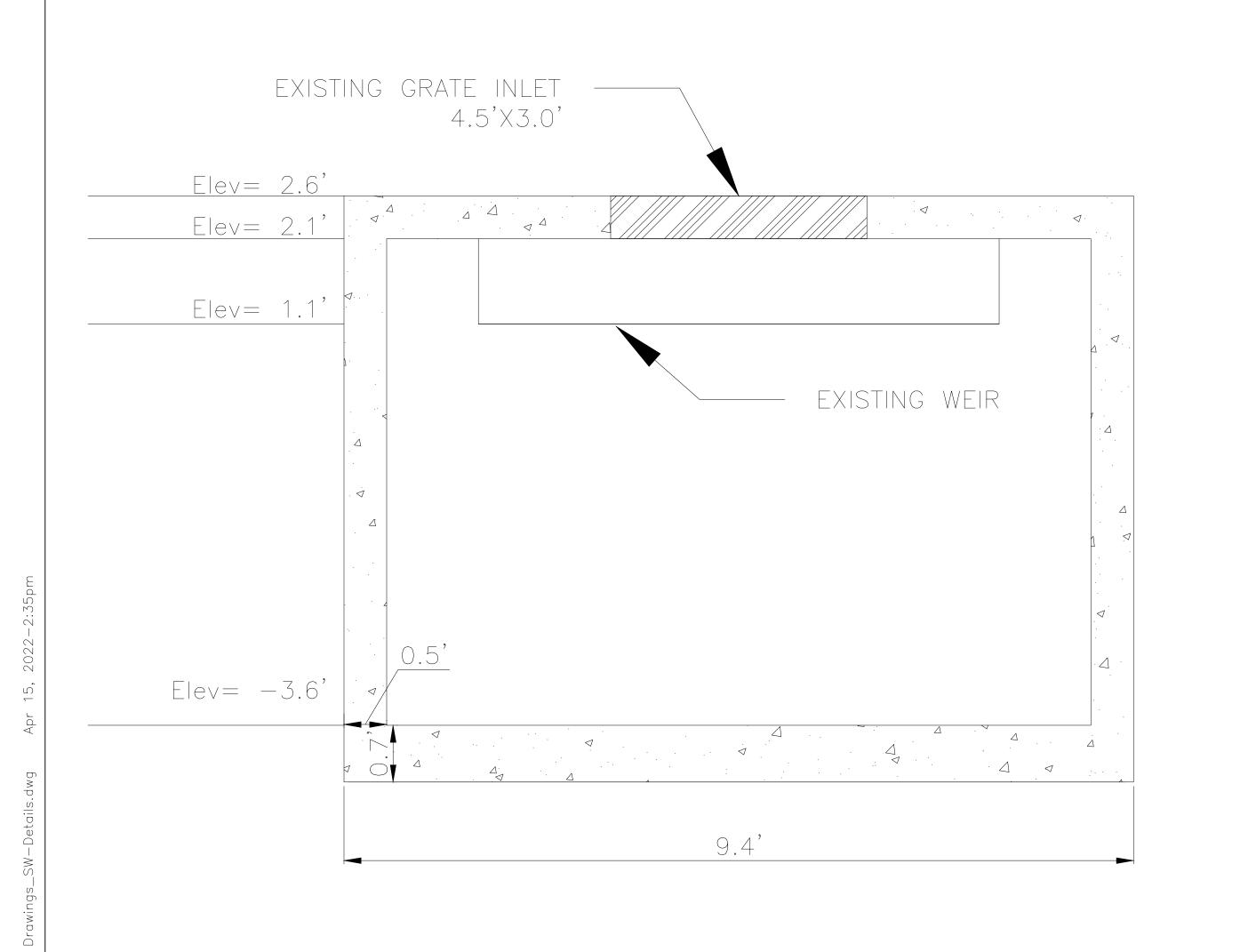
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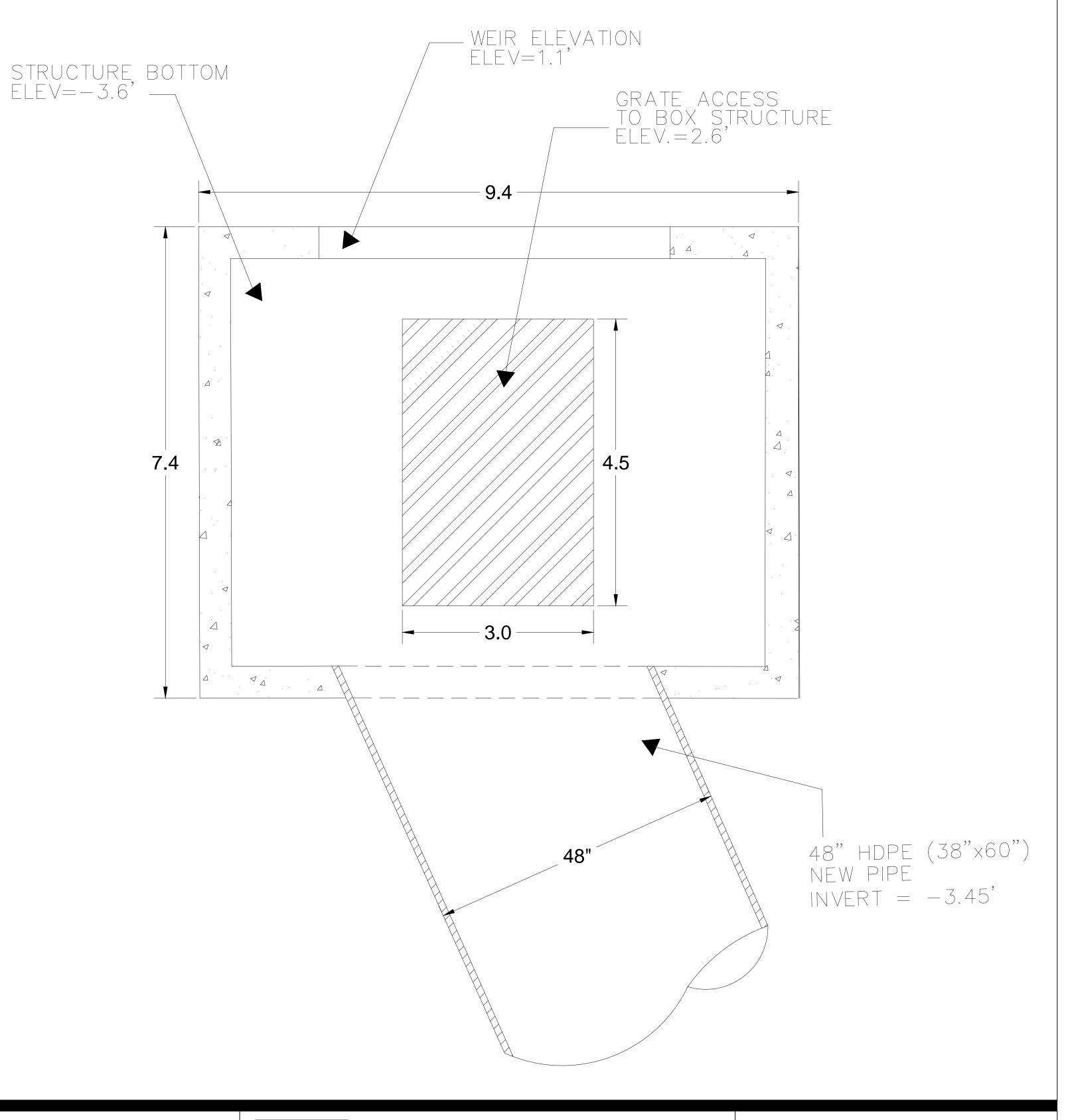
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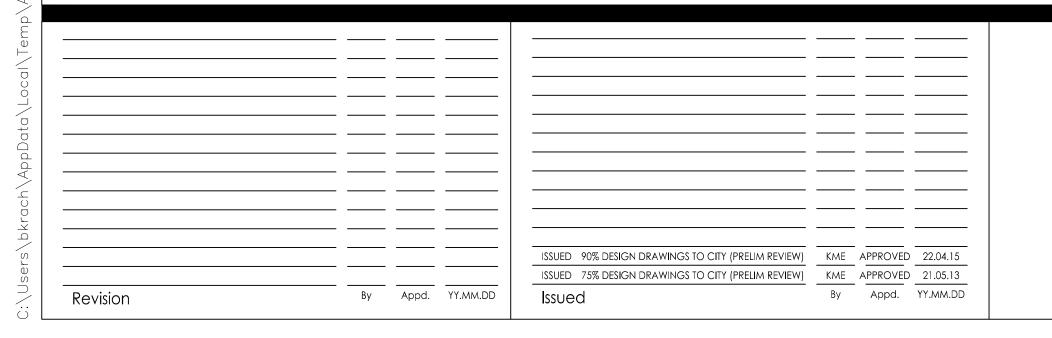


STORM VAULT PROFILE 3RD AVE. N

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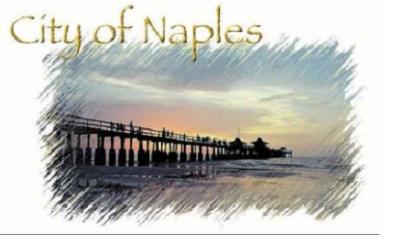
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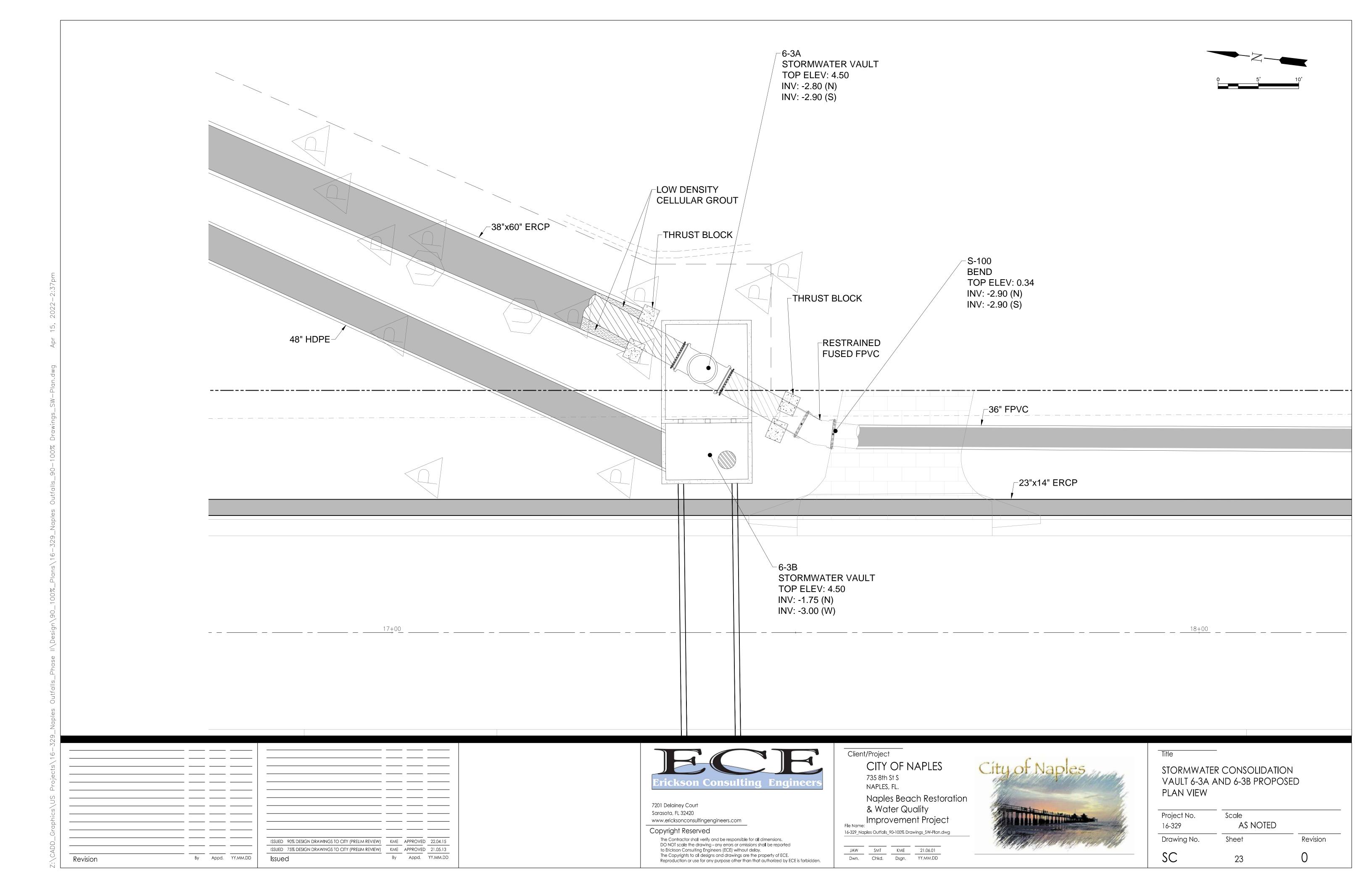
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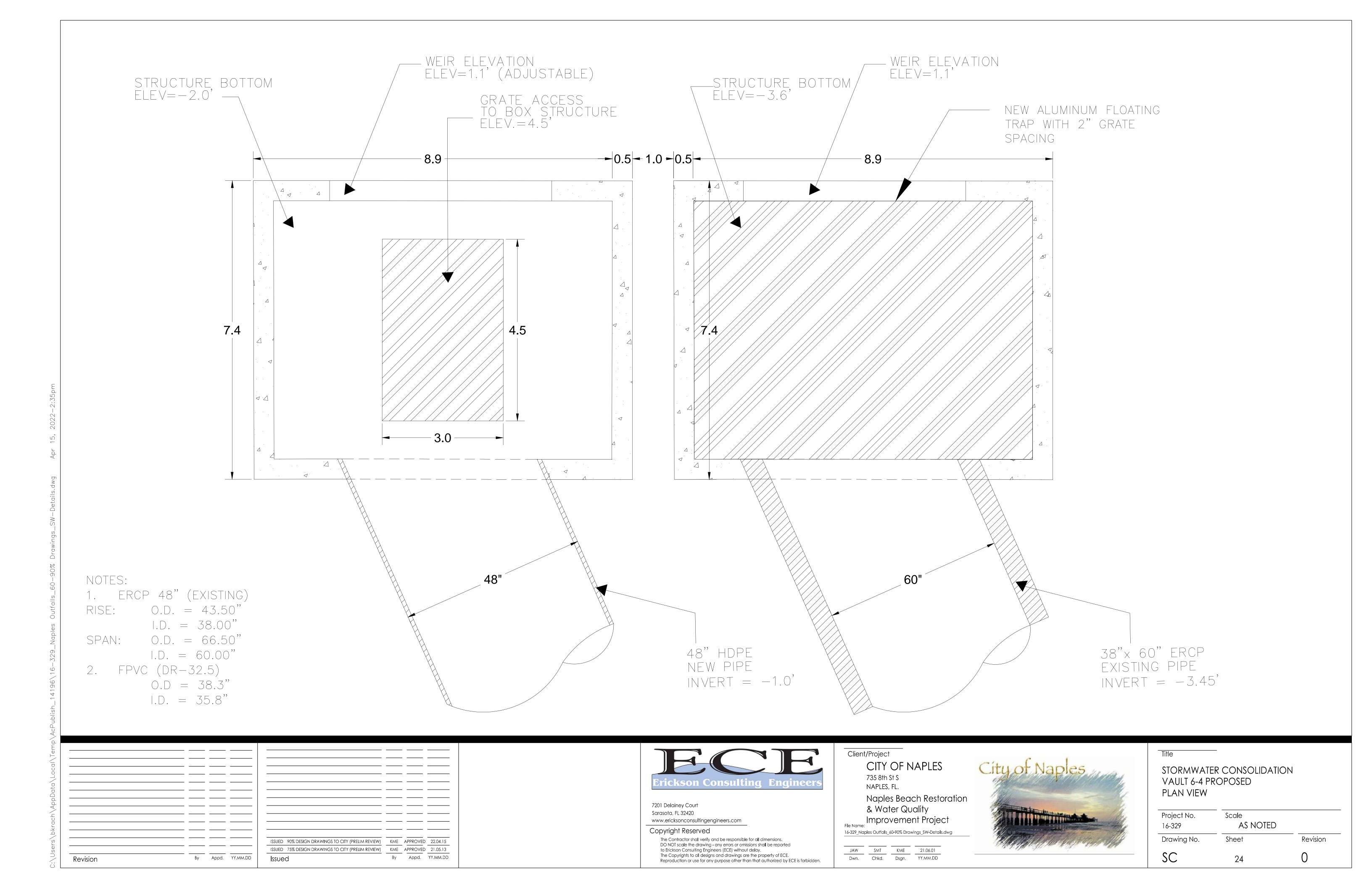
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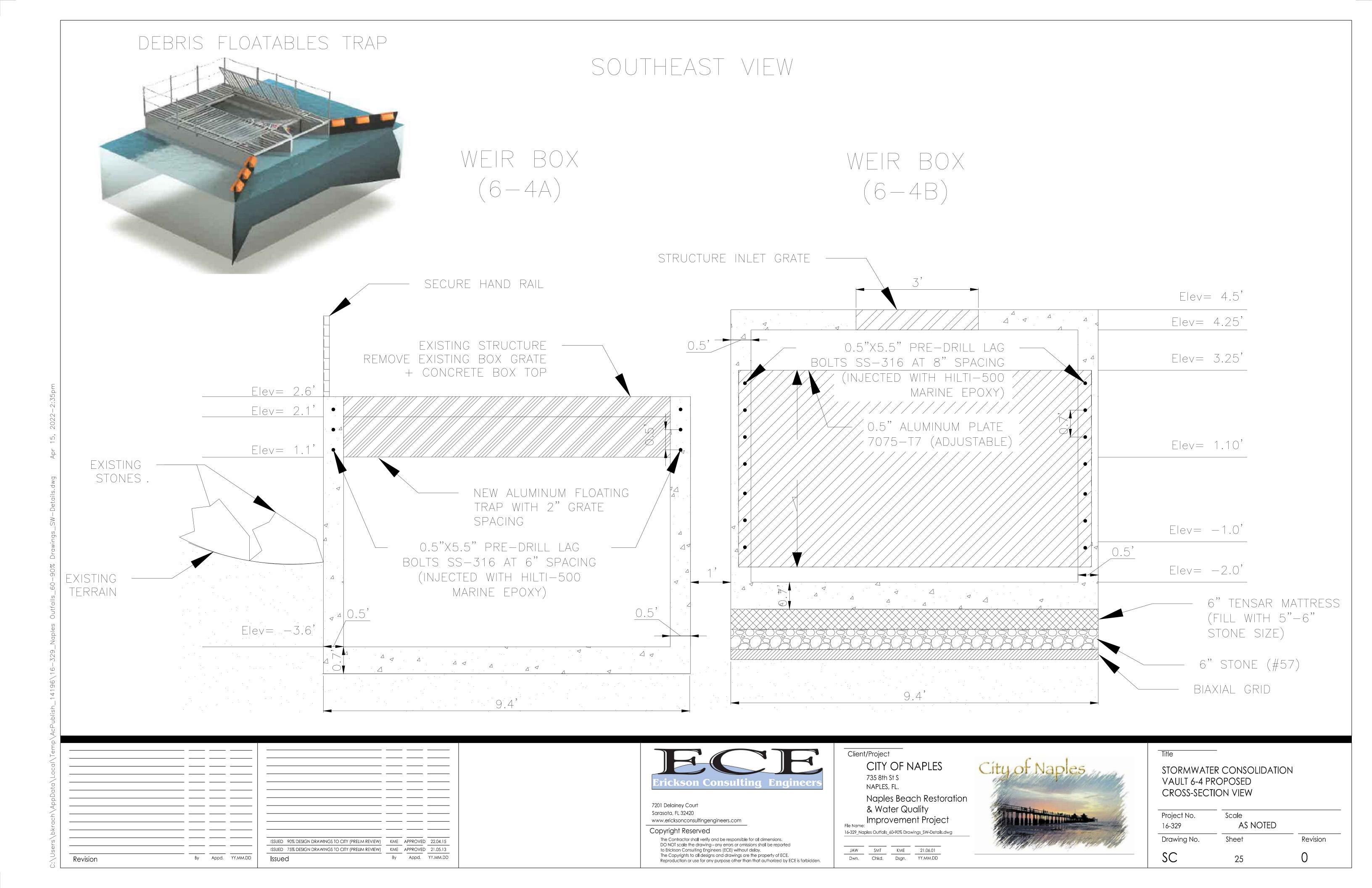


STORMWATER CONSOLIDATION VAULT 6-4 EXISTING CONDITIONS

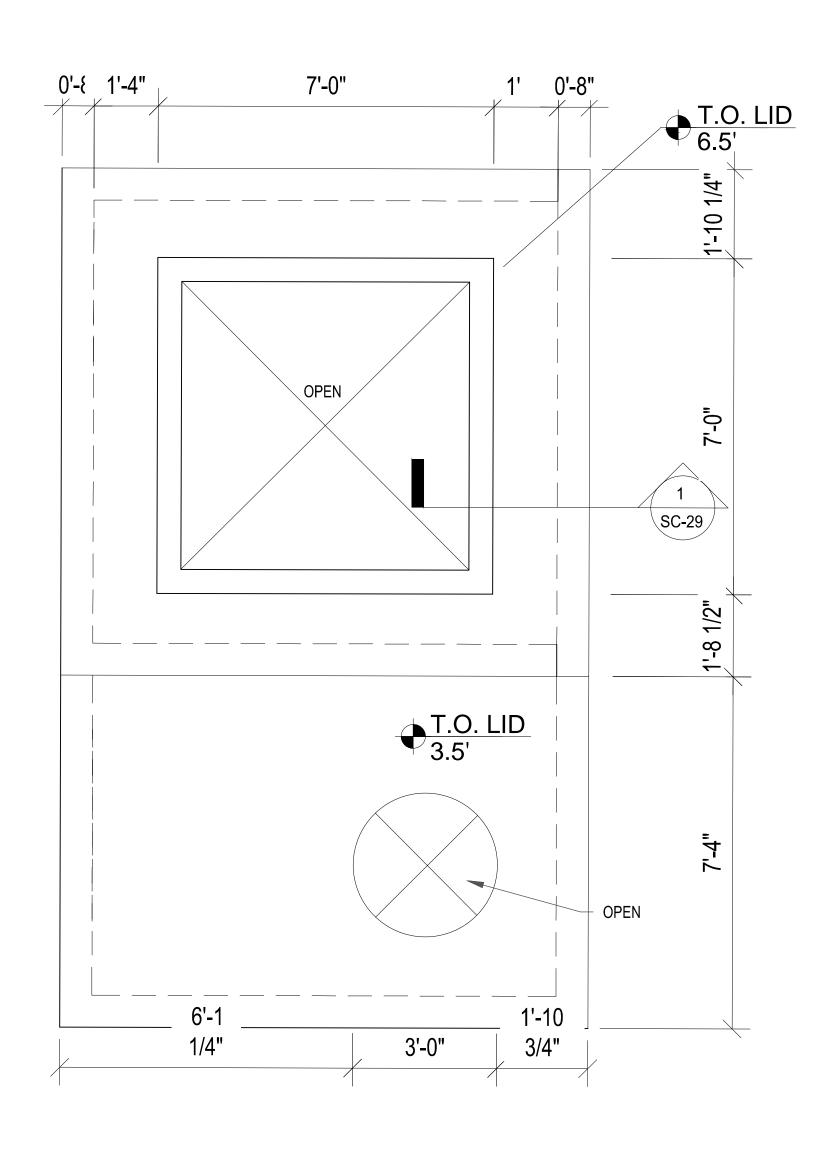
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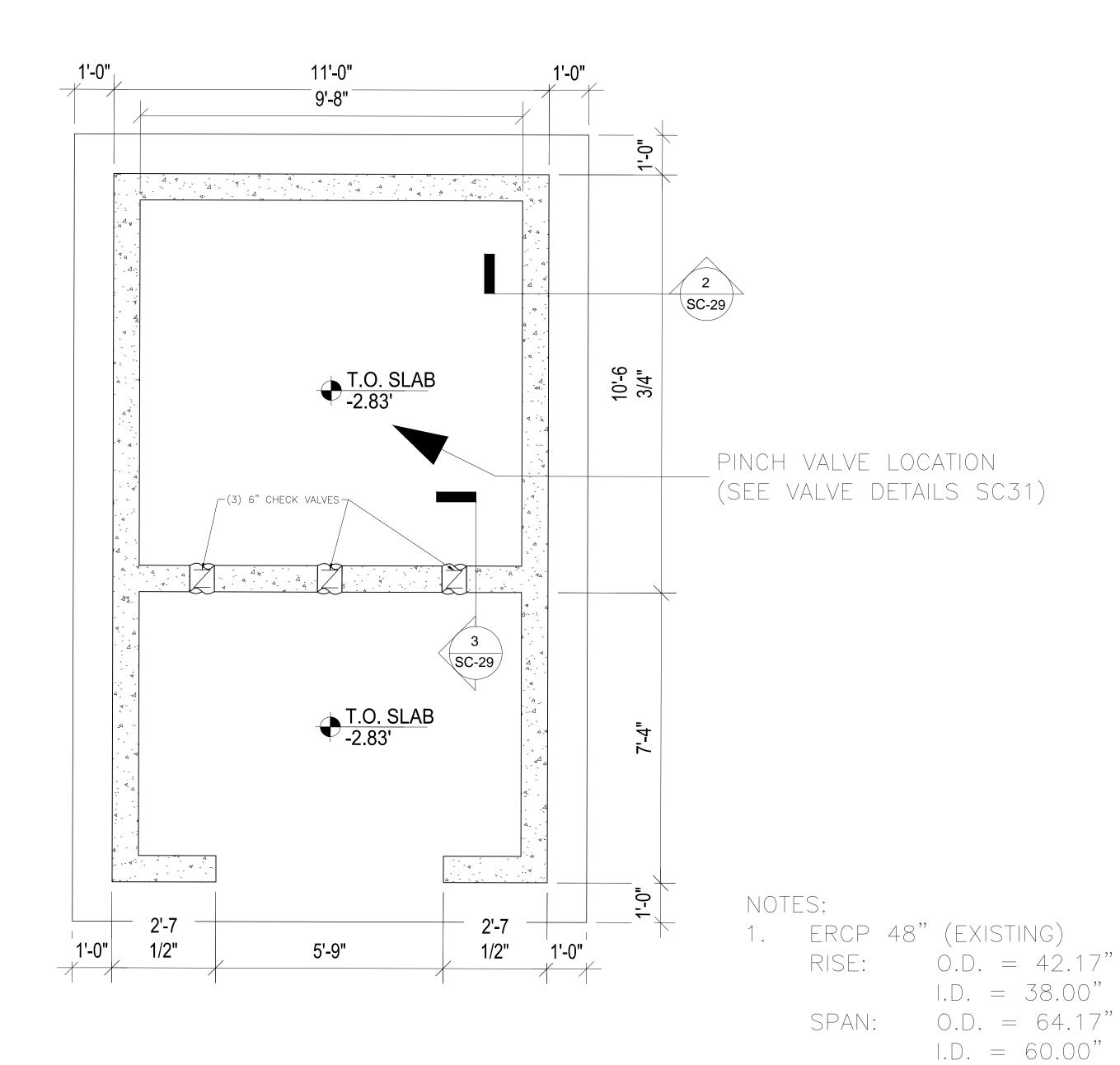






VAULT 6-3 (ALLIGATOR LAKE) PLAN VIEW

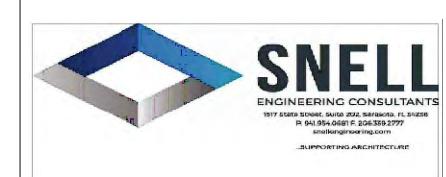




2. FPVC (DR-32.5)0.D = 38.3"

Revision

| Comparison | Compar





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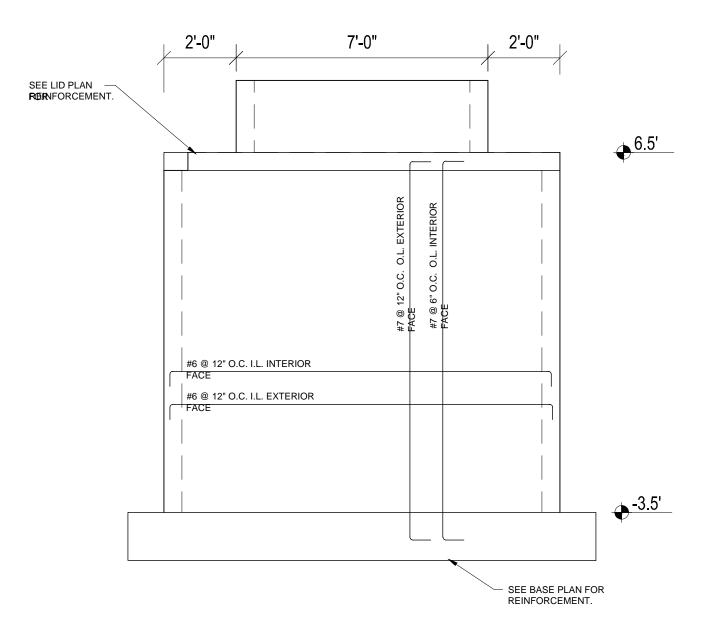
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STORMWATER CONSOLIDATION VAULT 6-3 PROPOSED PLAN VIEW

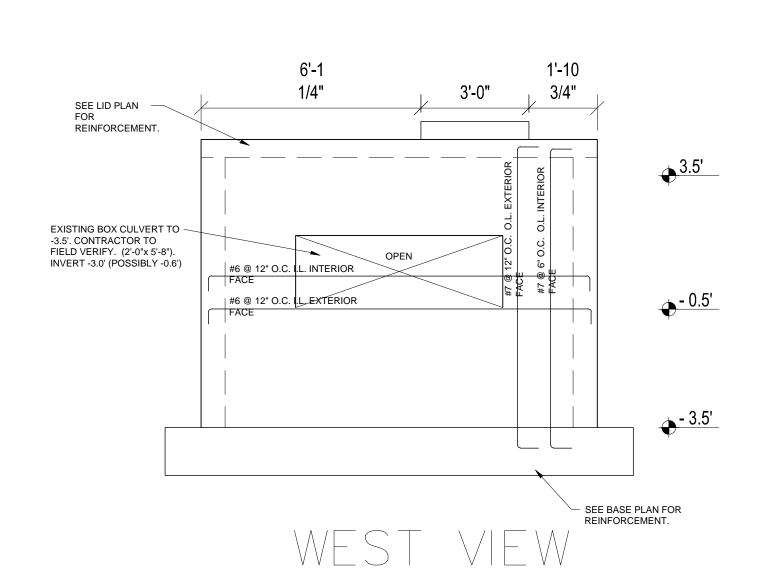
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Drawing No.	Sheet	Revision
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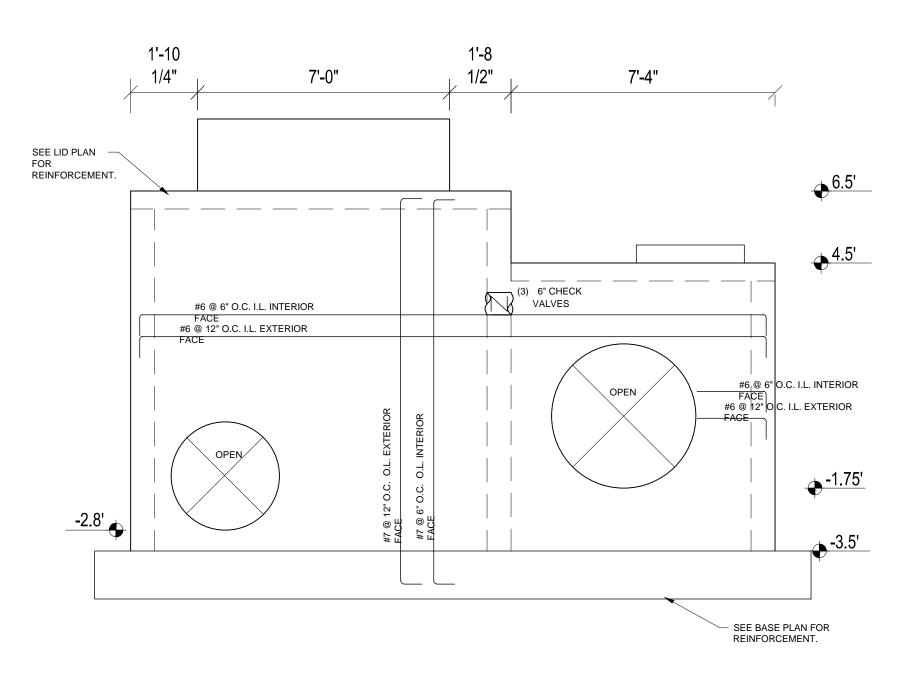
1.D. = 35.8"

VAULT 6-3 (ALLIGATOR LAKE) CROSS-SECTION

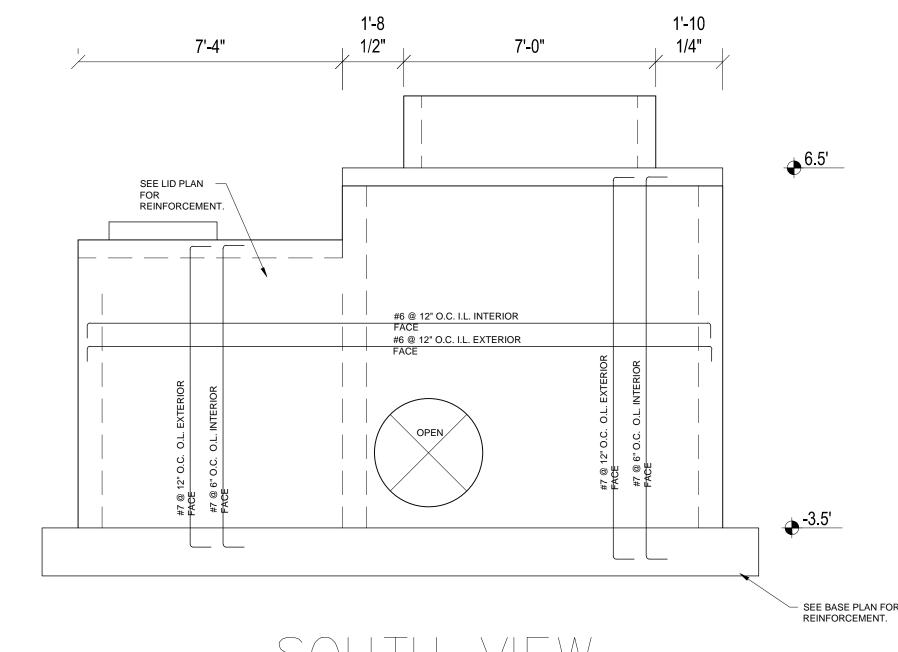


EAST VIEW



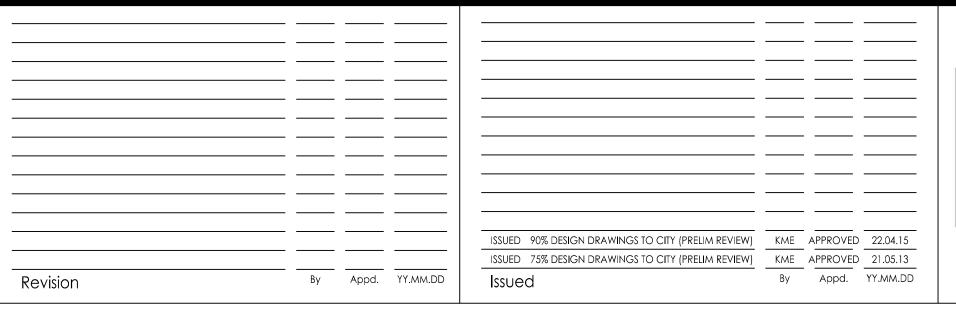


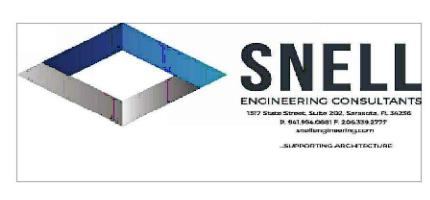
NORTH VIEW





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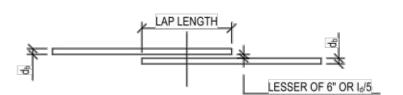
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STORMWATER CONSOLIDATION
VAULT 6-3 PROPOSED
CROSS-SECTION VIEW

Project No. 16-329	Scale AS NOTED	
Drawing No.	Sheet	Revision
SC	27	0

	TENSION (CLASS 'B') LAP SPLICE LENGTH									COMPRESSION LAP / SPLICE LENGTH			
BAR SIZE	TOP BARS						OTHER BARS						ALL BARS
BAN SIZE	3000 PSI	4000 PSI	5000 PSI	6000 PSI	8000 PSI	10000 PSI	3000 PSI	4000 PSI	5000 PSI	6000 PSI	8000 PSI	10000 PSI	ALL CONCRETE WITH f _c 3 3000 psi
#3	28	24	22	20	17	16	22	19	17	15	13	12	12
#4	37	32	29	26	23	21	29	25	22	20	18	16	15
#5	47	40	36	33	29	26	36	31	28	25	22	20	19
#6	56	48	43	40	34	31	43	37	33	31	26	24	23
#7	81	70	63	58	50	45	63	54	49	44	38	34	27
#8	93	80	72	66	57	51	72	62	55	51	44	39	30
#9	105	91	81	74	64	57	81	70	63	57	49	44	34
#10	118	102	91	83	72	65	91	79	70	64	56	50	38
#11	131	113	101	93	80	72	101	87	78	71	62	55	43
#14	121	105	94	86	74	66	93	81	72	66	57	51	8
#18	161	139	125	114	99	88	124	107	96	88	76	68	A

	HOOKED TENSION DEVELOPMENT LENGTH (Idh) INCHES					
BAR SIZE	3000 PSI	4000 PSI	5000 PSI	6000 PSI	8000 PSI	10000 PSI
#3	9	7	7	6	6	6
#4	11	10	9	8	7	6
#5	14	12	11	10	9	8
#6	17	15	13	12	10	9
#7	19	17	15	14	12	11
#8	22	19	17	16	14	12
#9	25	22	19	18	15	14
#10	28	24	22	20	17	16
#11	31	27	24	22	19	17
#14	37	32	29	27	23	21
#18	50	43	39	35	31	27



NOTES:

UNLESS NOTED:

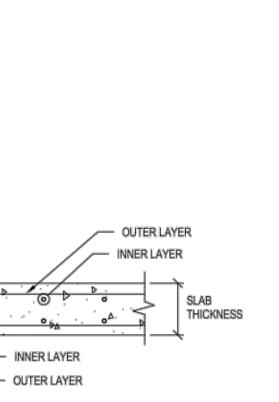
SEE STRUCTURAL NOTES FOR -CLEAR COVER, TYP. UNLESS NOTED OTHERWISE.

O.L.= OUTER LAYER.

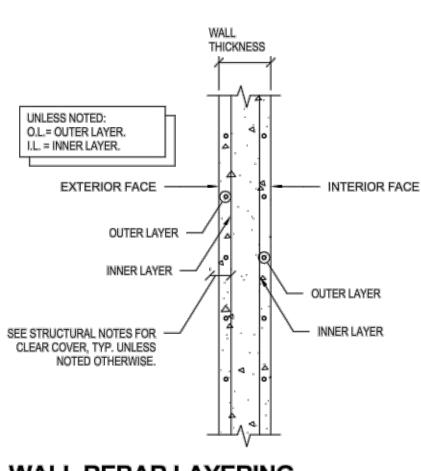
I.L. = INNER LAYER.

- REFER TO "HOOKED REINFORCEMENT TENSION DEVELOPMENT LENGTH SCHEDULE" WHEN THE STRAIGHT
- DEVELOPMENT LENGTH IN TENSION CANNOT BE ACCOMMODATED IN THE CONCRETE SECTION. ALWAYS USE TENSION LAP SPLICE LENGTH VALUES, UNLESS THE PLANS OR DETAILS NOTE OTHERWISE.
- TABULATED DEVELOPMENT AND LAP SPLICE LENGTHS ARE BASED ON REINFORCING STEEL YIELD STRENGTH
- Fy=60KSI, NORMAL WEIGHT CONCRETE, AND CLASS B LAPS. TOP BARS ARE DEFINED AS HORIZONTAL BARS WITH MORE THAN 12 INCHES OF FRESH CONCRETE CAST IN THE
- MEMBER BELOW THE DEVELOPMENT LENGTH OR SPLICE. TOP BAR FACTOR DOES NOT APPLY TO BARS IN WALLS. WHEN DIFFERENT BAR DIAMETERS ARE SPLICED, USE SMALLER BAR LAP SPLICE LENGTH.
- ALL TABULATED VALUES ARE MINIMUM LENGTH, IN CASE OF CONFLICT WITH PLANS, SECTIONS, OR DETAILS USE
- LONGER LENGTH.
- d/b = BAR DIAMETER I/d = DEVELOPMENT, LAP OR SPLICE LENGTH.
- ADJUST TABULATED LENGTH BY THE FOLLOWING FACTORS WHERE APPLICABLE. NOTE THAT FACTORS ARE
 - CUMULATIVE: (E.G. 1.30x1.50 = 1.95)
 - LIGHT WEIGHT CONCRETE: 3 OR LESS BUNDLED BARS: 1.20
 - 1.33 4 OR MORE BUNDLED BARS:
 - CLEAR SPACING LESS THAN 2d/b AND CLEAR COVER LESS THAN d/b
 - CLASS A LAP SPLICE
 - EPOXY COATED BARS
- WELDED AND/OR MECHANICAL SPLICES MAY BE USED AT THE GENERAL CONTRACTOR'S OPTION PROVIDED THAT THE SPLICE IS CAPABLE OF DEVELOPING AT LEAST 125% OF THE YIELD STRENGTH OF THE LARGER BAR IN TENSION. WHERE WELDED AND/OR MECHANICAL SPLICES ARE TO BE USED, THE GENERAL CONTRACTOR SHALL SUBMIT FULL DATA OF THE PROPOSED MATERIAL, PROCEDURES, AND INSTALLATION INSTRUCTIONS TO THE ENGINEER FOR
- REVIEW AS A SHOP DRAWING SUBMISSION. USE MECHANICAL COUPLERS FOR #14 AND LARGER BARS.
- LAP SPLICES IN CONCRETE MASONRY SHALL BE AS SPECIFIED IN STRUCTURAL NOTES.

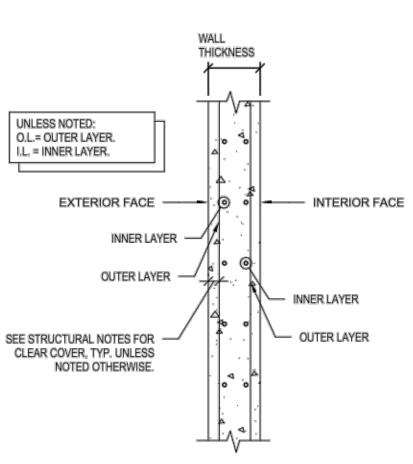
TYP. STRAIGHT REINFORCEMENT DEVELOPMENT AND SPLICE LENGTH SCHEDULE



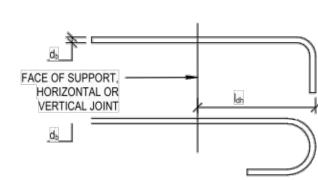




WALL REBAR LAYERING DIAGRAM



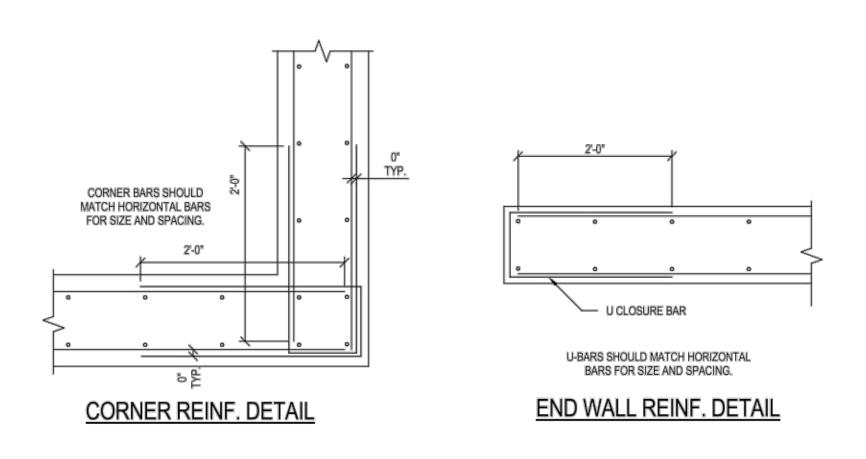
WALL REBAR LAYERING DIAGRAM



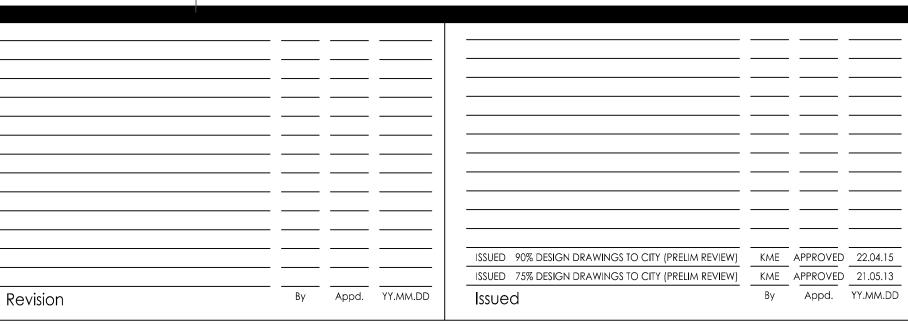
- SEE TYPICAL TIE AND STIRRUP HOOKS DETAIL FOR ADDITIONAL INFORMATION.
- TABULATED DEVELOPMENT LENGTH ARE BASED ON REINFORCING STEEL YIELD STRENGTH F/y = 60 KSI AND NORMAL WEIGHT CONCRETE. ALL TABULATED VALUES ARE MINIMUM LENGTHS. IN CASE OF CONFLICT WITH THE PLANS, SECTIONS, OR DETAILS, USE THE LONGER LENGTH.
- db = BAR DIAMETER
- Idn = DEVELOPMENT LENGTH ADJUST TABULATED LENGTHS BY THE FOLLOWING FACTORS WHERE APPLICABLE. NOTE THAT THE FACTORS ARE CUMULATIVE.
- A. REINFORCING BAR STRENGTH OTHER THAN 60 KSI: (F_x/60 KSI)
- B. LIGHT WEIGHT CONCRETE: C. EPOXY COATED BARS 1.20

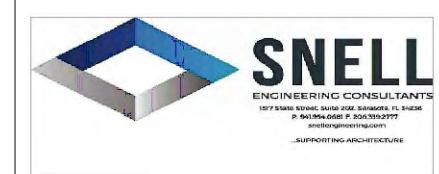
TYP. HOOKED REINFORCEMENT TENSION **DEVELOPMENT LENGTH SCHEDULE**

SCALE: NTS



SHEARWALL TYPICAL DETAILS NOT TO SCALE







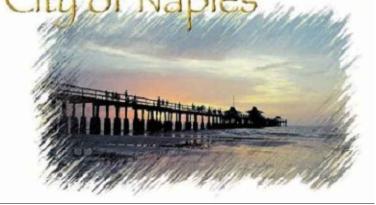
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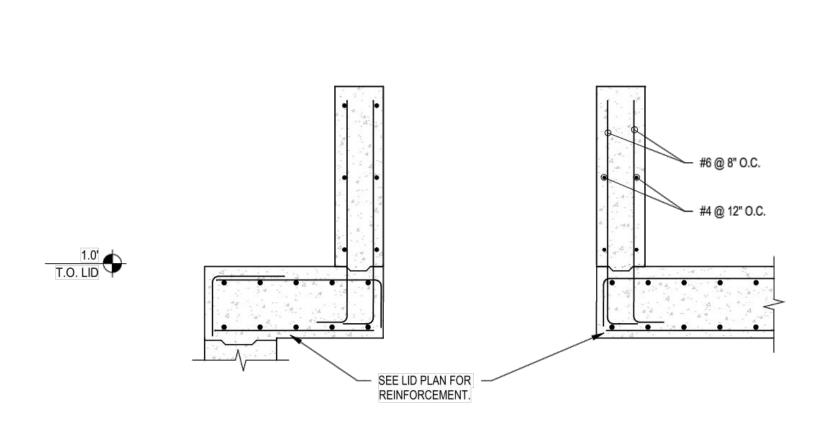
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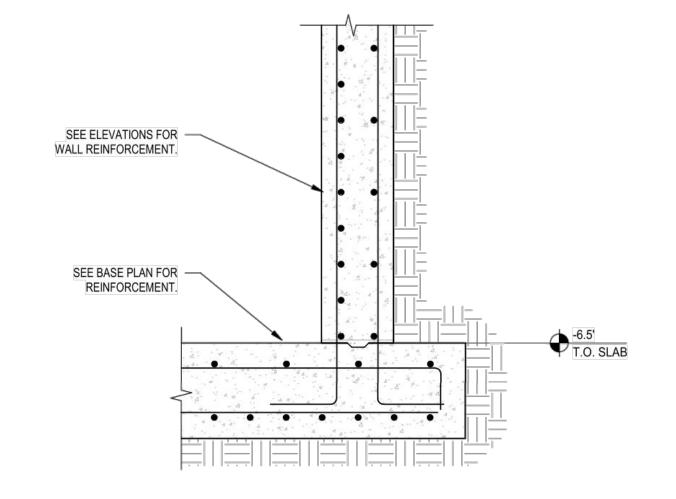
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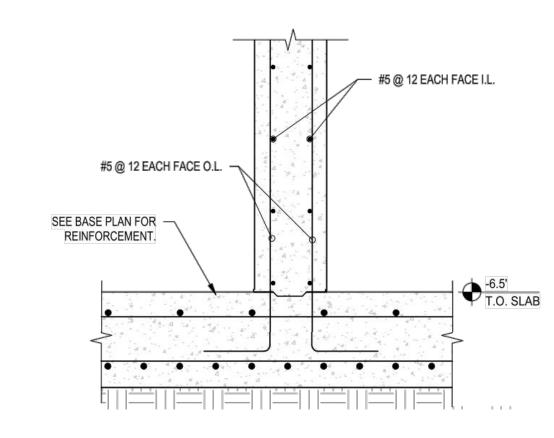


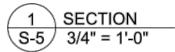
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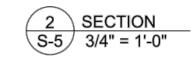
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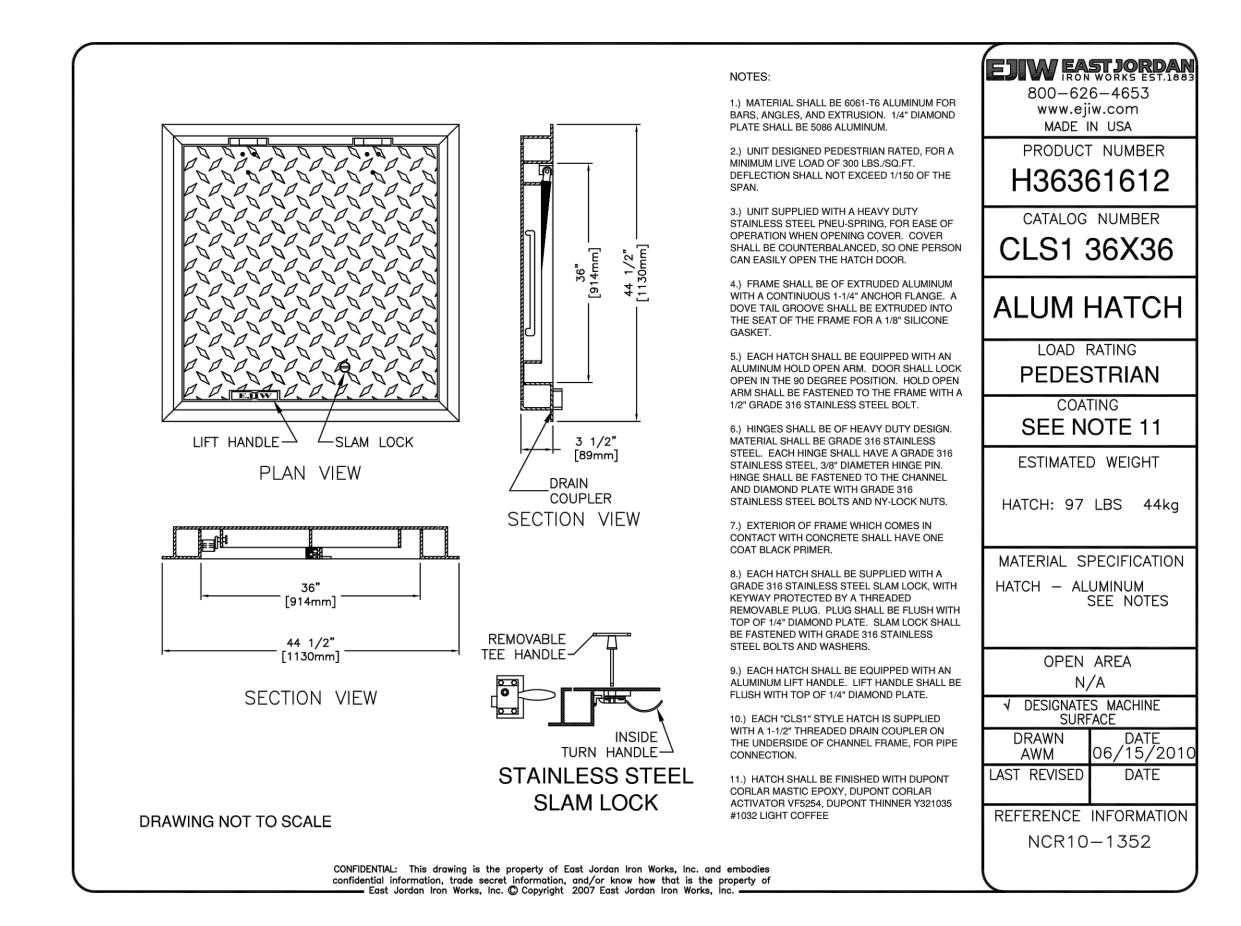


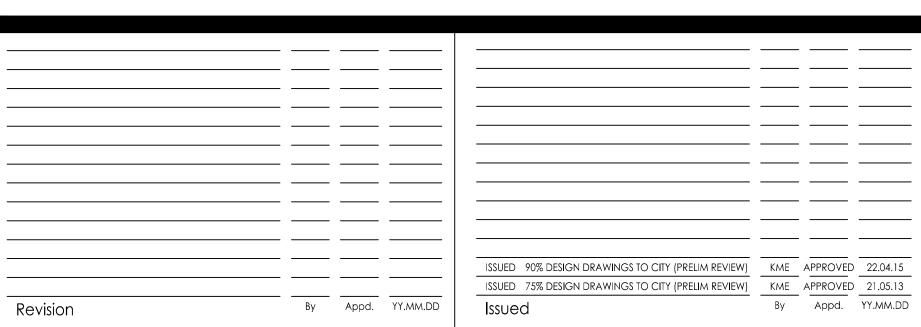


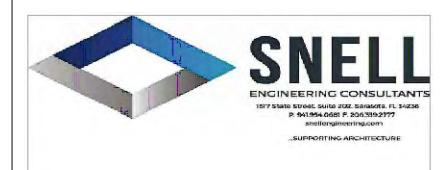














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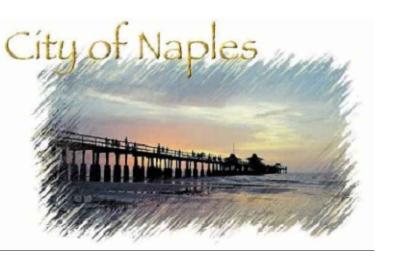


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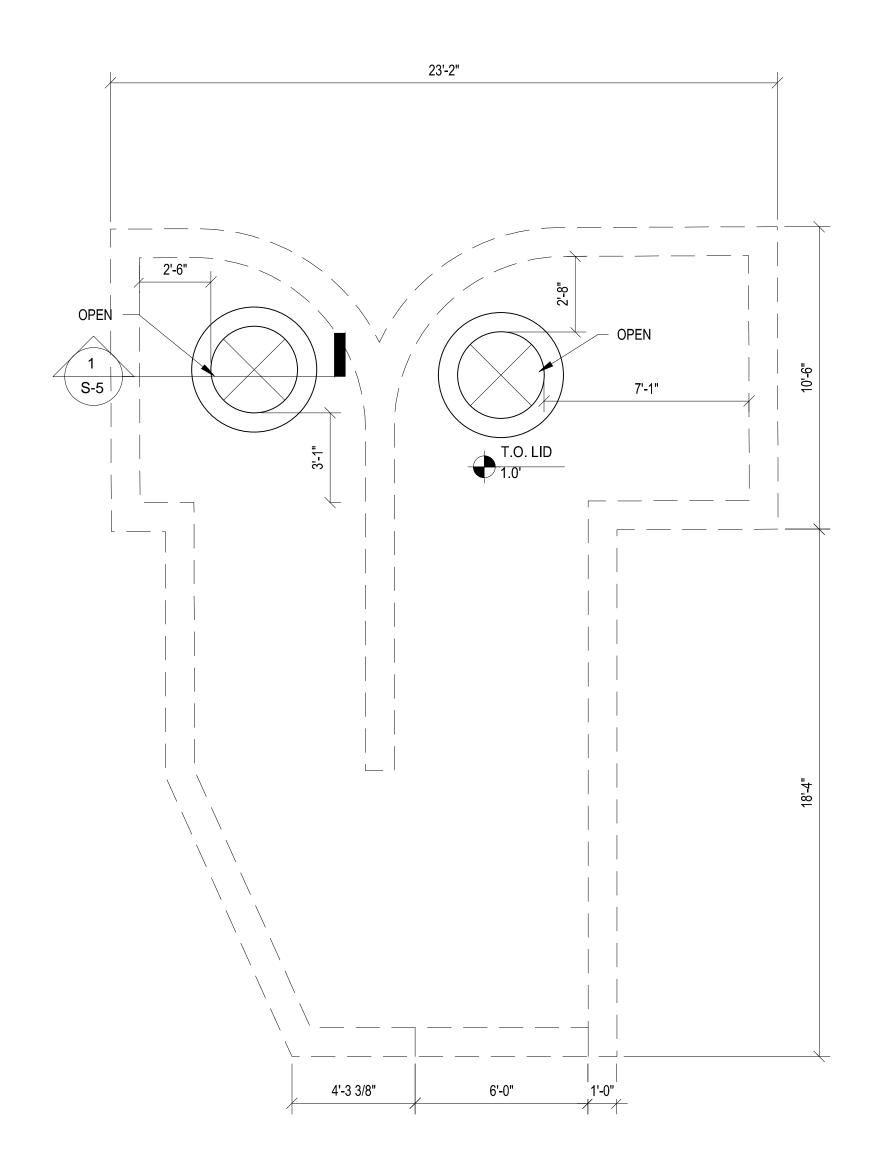
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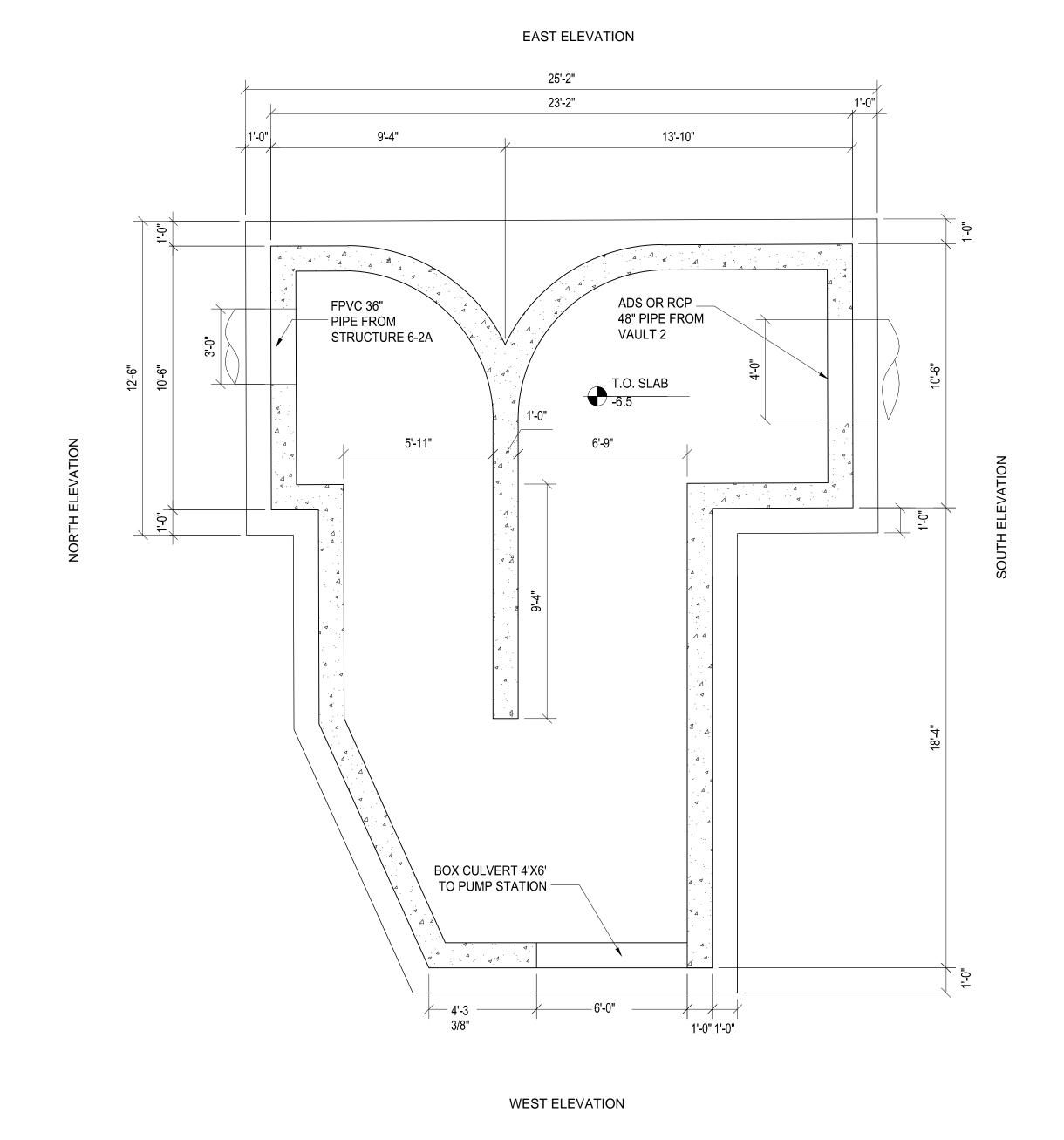


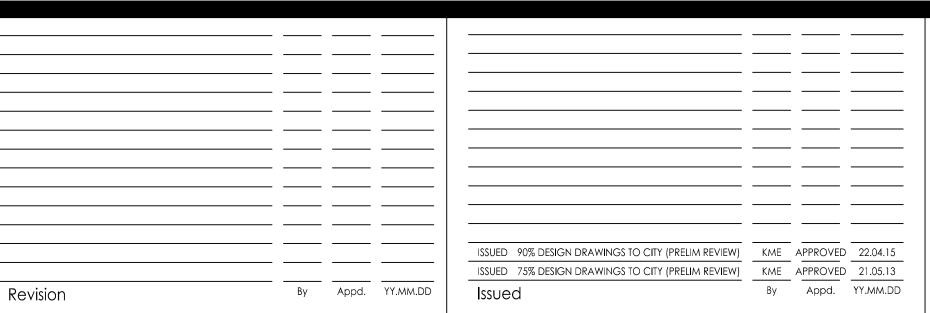
STORMWATER CONSOLIDATION
VAULT 6-3 DETAILS

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VAULT 1 (3RD AVE N) PLAN VIEW











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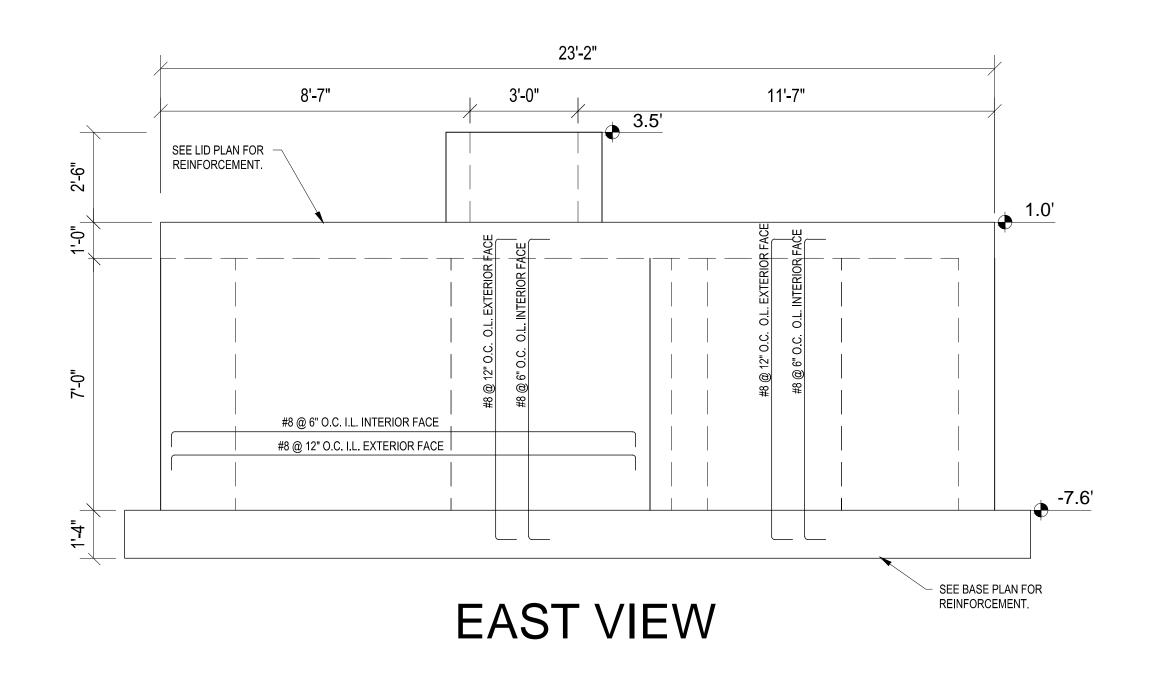
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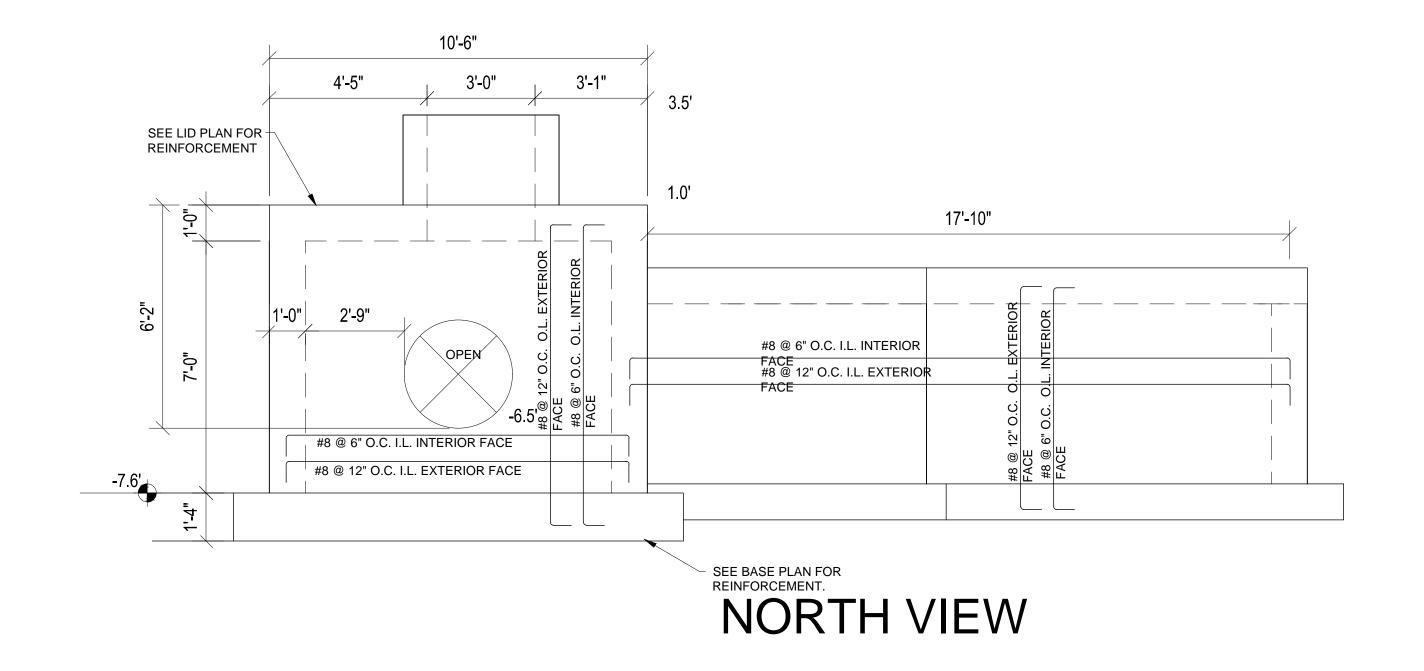
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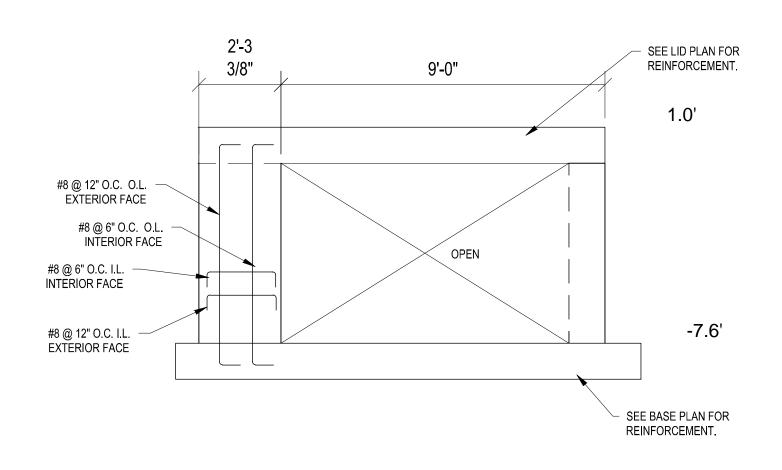
STORMWATER CONSOLIDATION
VAULT 1 PROPOSED
PLAN VIEW

Project No. 16-329	Scale AS NOTED	
Drawing No.	Sheet	Revision
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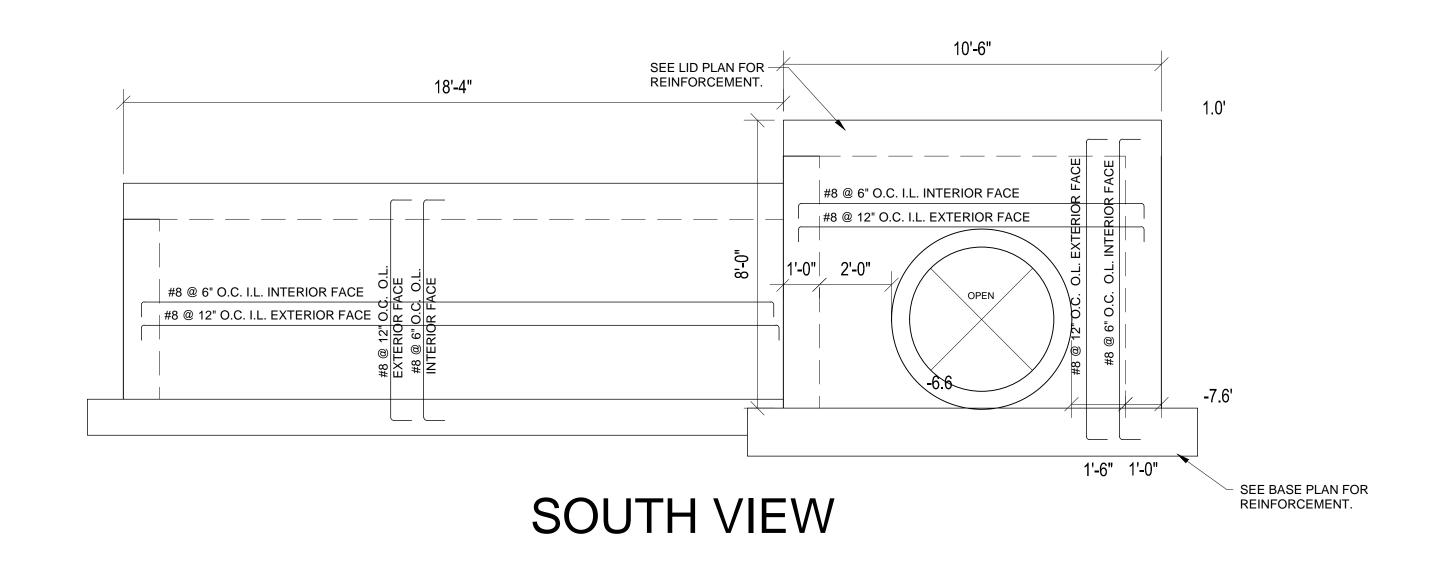
VAULT 1 (3RD AVE N) CROSS-SECTION

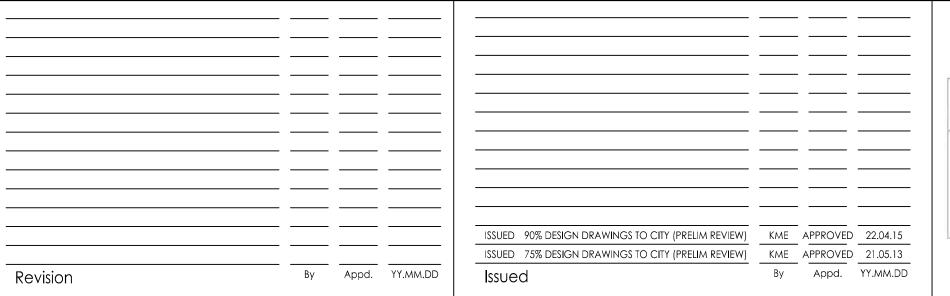


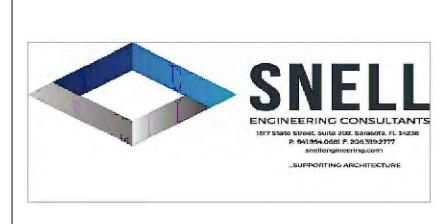




WEST VIEW









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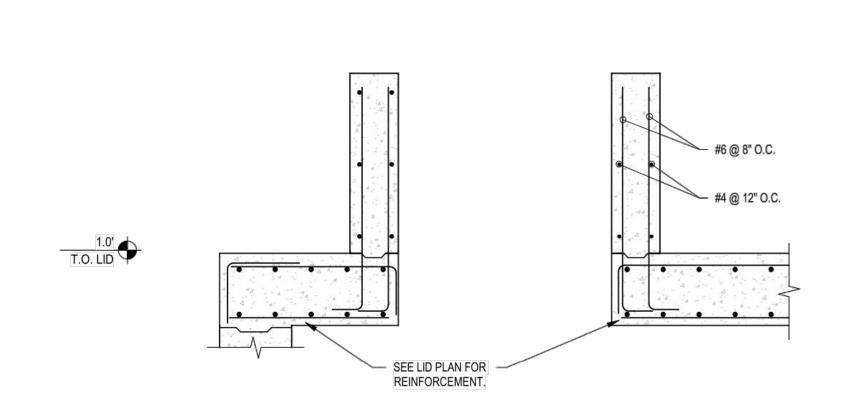
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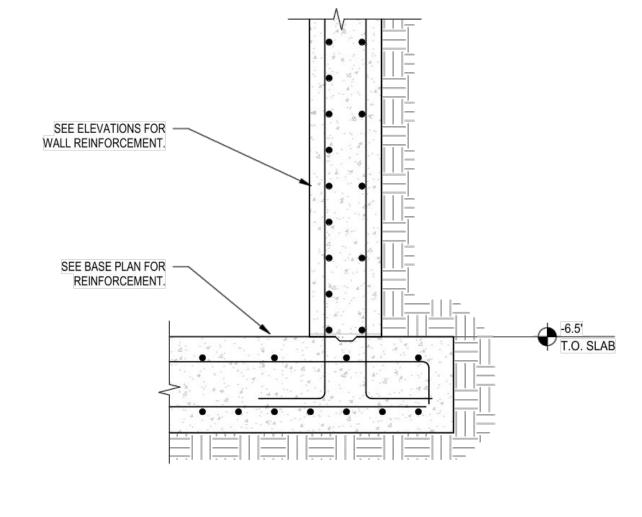
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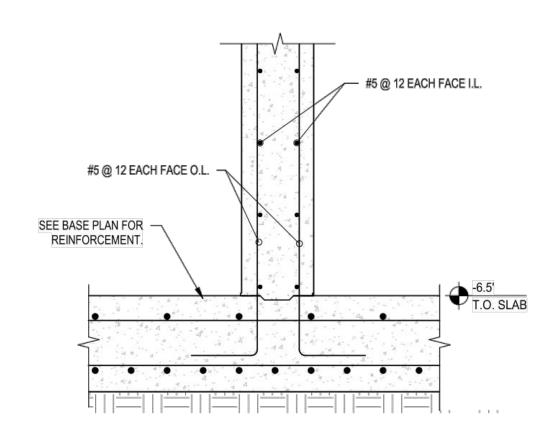
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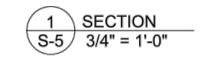
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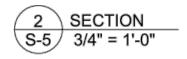
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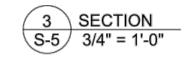


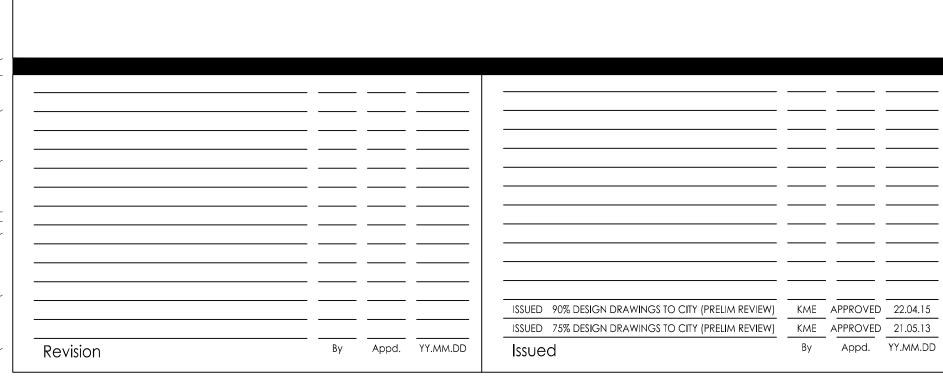
















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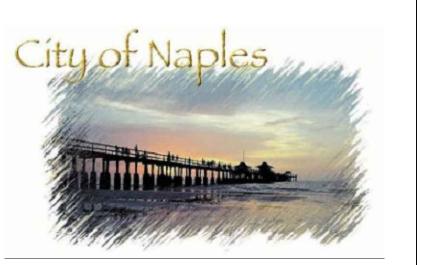
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STORMWATER CONSOLIDATION
VAULT 1 DETAILS

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Drawing No.	Sheet	Revision
SC	32	0

