

**CONTROL POINTS**

POINT	STATE PLANE (AL WEST)		SITE COORDINATE SYSTEM		ELEV.
	NORTH	EAST	NORTH	EAST	
DSK1	243999.21	1800129.56	12142.68	9653.84	10.00
GPS7	242703.69	1798087.92	11466.27	7332.39	9.19
GPS9	244160.15	1797864.77	12927.32	7523.23	7.57

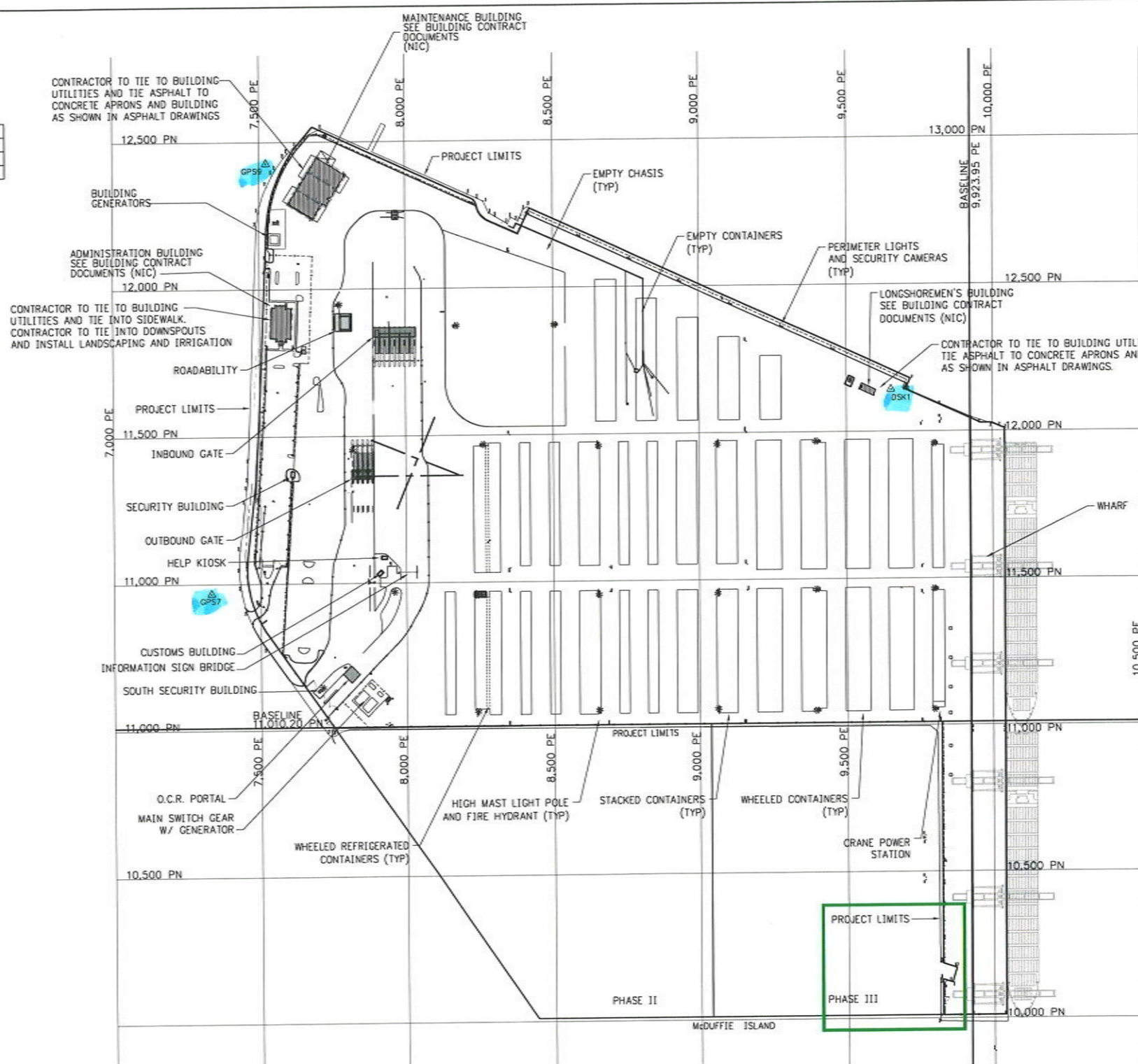
HORIZONTAL COORDINATES ARE BASED ON ALABAMA STATE PLANE COORDINATE SYSTEM, WEST ZONE AS REFERENCED TO THE NORTH AMERICAN DATUM OF 1983 ADJUSTED BY THE NATIONAL GEODETTIC SURVEY IN DEC. 1992

VERTICAL ELEVATIONS ARE REFERENCED TO NAVD 88.

**PROJECT LIMIT DESCRIPTION**

THE PROJECT BOUNDARY OF A CERTAIN PARCEL OF LAND LOCATED IN GRANT SECTION 38, TOWNSHIP 4 SOUTH, RANGE 1 WEST, MOBILE COUNTY, ALABAMA AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCING AT THE NORTHWEST CORNER OF THE INTERSECTION OF WATER STREET AND VIRGINIA STREET; THENCE SOUTH 81°44'02" EAST A DISTANCE OF 113.83 FEET TO THE POINT OF BEGINNING; THENCE SOUTH 81°45'39" EAST A DISTANCE OF 1434.62 FEET TO A POINT; THENCE SOUTH 06°21'41" WEST A DISTANCE OF 38.69 FEET TO A POINT; THENCE SOUTH 78°03'39" EAST A DISTANCE OF 21.24 FEET TO A POINT; THENCE SOUTH 82°26'24" EAST A DISTANCE OF 219.37 FEET TO A POINT; THENCE SOUTH 87°46'36" EAST A DISTANCE OF 122.75 FEET TO A POINT; THENCE SOUTH 16°08'07" EAST A DISTANCE OF 2023.23 FEET TO A POINT; THENCE SOUTH 75°03'36" WEST A DISTANCE OF 227.07 FEET TO A POINT; THENCE NORTH 16°07'57" WEST A DISTANCE OF 145.49 FEET TO A POINT; THENCE SOUTH 88°40'35" EAST A DISTANCE OF 43.28 FEET TO A POINT; THENCE NORTH 01°29'56" EAST A DISTANCE OF 51.67 FEET TO A POINT; THENCE NORTH 88°18'59" WEST A DISTANCE OF 59.81 FEET TO A POINT; THENCE NORTH 16°31'34" WEST A DISTANCE OF 783.87 FEET TO A POINT; THENCE NORTH 65°15'35" WEST A DISTANCE OF 34.21 FEET TO A POINT; THENCE SOUTH 74°02'38" WEST A DISTANCE OF 1985.15 FEET TO A POINT; THENCE SOUTH 56°24'52" WEST A DISTANCE OF 32.80 FEET TO A POINT; THENCE SOUTH 39°40'52" WEST A DISTANCE OF 22.51 FEET TO A POINT; THENCE SOUTH 80°59'12" WEST A DISTANCE OF 20.12 FEET TO A POINT; THENCE NORTH 51°26'06" WEST A DISTANCE OF 325.12 FEET TO A POINT; THENCE NORTH 51°13'35" WEST A DISTANCE OF 50.99 FEET TO A POINT; THENCE NORTH 49°44'38" WEST A DISTANCE OF 35.44 FEET TO A POINT; THENCE NORTH 13°56'05" WEST A DISTANCE OF 706.72 FEET TO A POINT; THENCE NORTH 13°39'53" WEST A DISTANCE OF 170.86 FEET TO A POINT; THENCE NORTH 05°58'46" WEST A DISTANCE OF 61.43 FEET TO A POINT; THENCE NORTH 01°01'20" EAST A DISTANCE OF 54.28 FEET TO A POINT; THENCE NORTH 09°24'25" EAST A DISTANCE OF 48.90 FEET TO A POINT; THENCE NORTH 14°36'20" EAST A DISTANCE OF 46.10 FEET TO A POINT; THENCE NORTH 19°40'06" EAST A DISTANCE OF 37.46 FEET TO A POINT; THENCE NORTH 27°22'04" EAST A DISTANCE OF 44.56 FEET TO A POINT; THENCE NORTH 32°30'48" EAST A DISTANCE OF 65.91 FEET TO A POINT; THENCE NORTH 42°09'30" EAST A DISTANCE OF 13.42 FEET TO A POINT; THENCE NORTH 52°11'42" EAST A DISTANCE OF 41.12 FEET TO A POINT; THENCE SOUTH 81°57'22" EAST A DISTANCE OF 176.33 FEET TO A POINT; THENCE NORTH 10°55'26" EAST A DISTANCE OF 101.26 FEET TO A POINT; THENCE SOUTH 78°27'53" EAST A DISTANCE OF 16.52 FEET TO A POINT; THENCE SOUTH 11°32'07" WEST A DISTANCE OF 100.80 FEET TO A POINT; THENCE SOUTH 81°50'51" EAST A DISTANCE OF 415.11 FEET TO A POINT; THENCE SOUTH 41°26'15" EAST A DISTANCE OF 45.16 FEET TO A POINT; THENCE SOUTH 75°31'51" EAST A DISTANCE OF 72.73 FEET TO A POINT; THENCE NORTH 09°05'41" EAST A DISTANCE OF 24.15 FEET TO A POINT; THENCE SOUTH 78°02'57" EAST A DISTANCE OF 27.64 FEET TO A POINT; THENCE NORTH 08°15'23" EAST A DISTANCE OF 42.09 FEET TO A POINT; THENCE NORTH 40°45'08" EAST A DISTANCE OF 17.20 FEET TO THE POINT OF BEGINNING; CONTAINING 97.888 ACRES, MORE OR LESS.



**NOTE:**  
STRUCTURES IN THIS CONTRACT INCLUDE, BUT ARE NOT LIMITED TO: ROADABILITY, INBOUND GATE, OUTBOUND GATE, SECURITY BUILDINGS, CUSTOMS BUILDING, CUSTOMS INSPECTION DOCK, DRAINAGE STRUCTURES, DRAINAGE PIPE, ELECTRICAL STRUCTURES, TRANSFORMERS, CONDUITS AND WIRE, EROSION CONTROLS.



**AS-BUILT**  
JUNE 20, 2009

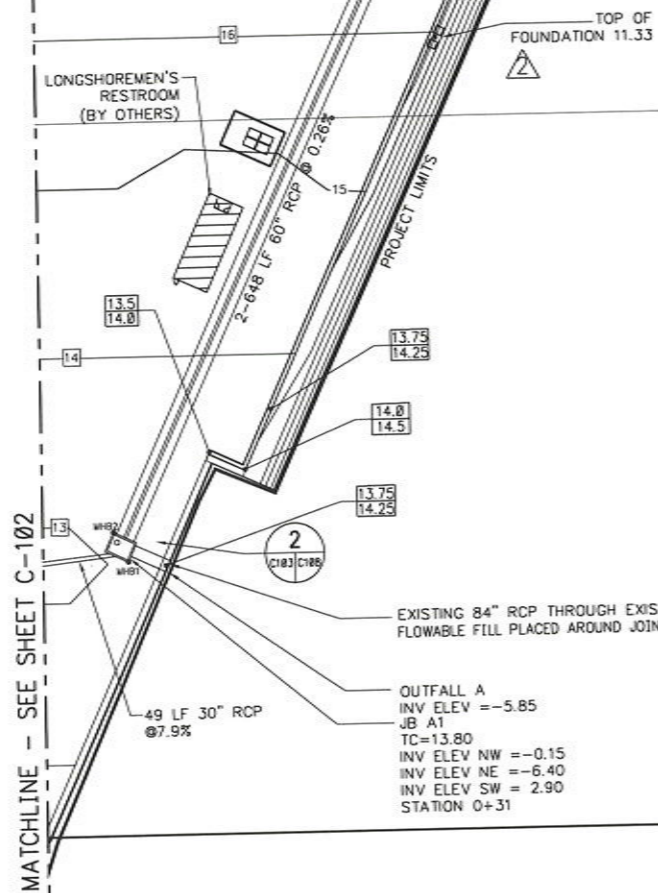
GRAPHIC SCALES  
CHECK BEFORE USE  
IF SHEET IS LESS THAN 24" X 36"  
IT IS A REDUCED PRINT. SCALE  
ACCORDINGLY

NO.	DESCRIPTION	DATE	BY	NO.	DESCRIPTION	DATE	BY
1	ADDED "CURRENT CONST" BLOCK	3/18/08	RAA				
2	AS-BUILT	6/28/09	RAA				

**GSE**  
GULF STATES ENGINEERING  
Creating Solutions  
4110 Moffett Road  
Mobile, AL 36688  
(251) 460-4846

DESIGNED BY RBB	<b>CONTAINER TERMINAL AT CHOCTAW POINT PAVEMENT, UTILITIES, AND GATE STRUCTURES</b>	SCALE 1"=200'-0"	REVISION 2
DRAWN BY RBB		DATE 10/10/07	
CHECKED BY RAA		DRAWING NO. G-6	
PROJECT ENGR RAA			

MATCHLINE - SEE SHEET C-105



MATCHLINE - SEE SHEET C-102

EXISTING 84" RCP THROUGH EXISTING BULKHEAD  
FLOWABLE FILL PLACED AROUND JOINT

OUTFALL A  
INV ELEV = -5.85  
JB A1  
TC=13.80  
INV ELEV NW = -0.15  
INV ELEV NE = -6.40  
INV ELEV SW = 2.90  
STATION 0+31

BASELINE 9,923.95 PE

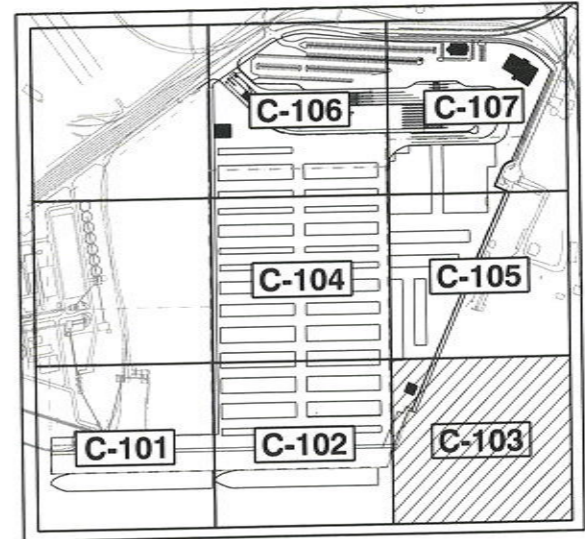
BASELINE 9923.95 PE

9,500 PE

10,000 PE

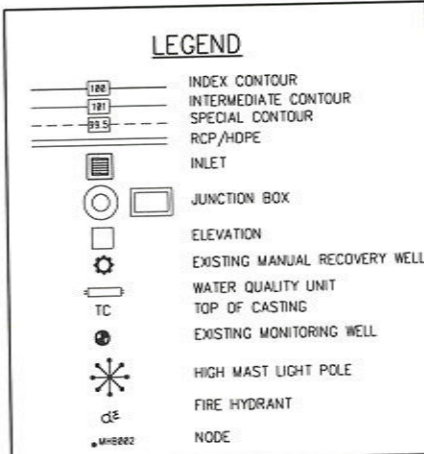
12,500 PN

13,000 PN



KEY PLAN

1"=500' 0 500 1000 FT.



NOTES:

- CONTRACTOR TO FILL WITH SAND/CLAY TO BRING PREPARED SUBGRADE TO RECEIVE STABILIZED SAND/CLAY. COMPACT SAND/CLAY TO 100% PROCTOR.
- CONTRACTOR TO REMOVE AND RESTORE WELDED WIRE WALL DISTURBED BY STORM DRAIN INSTALLATION.
- CONTRACTOR TO WRAP EACH PIPE JOINT WITH TWO LAYERS OF FILTER FABRIC AND WIRE IN PLACE DURING BACKFILL.

NODE ID	PLANT EAST	PLANT NORTH
MHB1	9761.10	12091.81
MHB2	9743.25	12082.97

1"=50' 0 50 100 FT.

**AS-BUILT**  
JUNE 20, 2009

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ACCORDINGLY

NO.	DESCRIPTION	DATE	BY	NO.	DESCRIPTION	DATE	BY
1	ADDED "CURRENT CONST" BLOCK	3/18/08	RAA				
2	ADDED PERIMETER LIGHT FOUNDATION EL	4/22/08	RAA				
3	AS-BUILT	6/20/09	RAA				

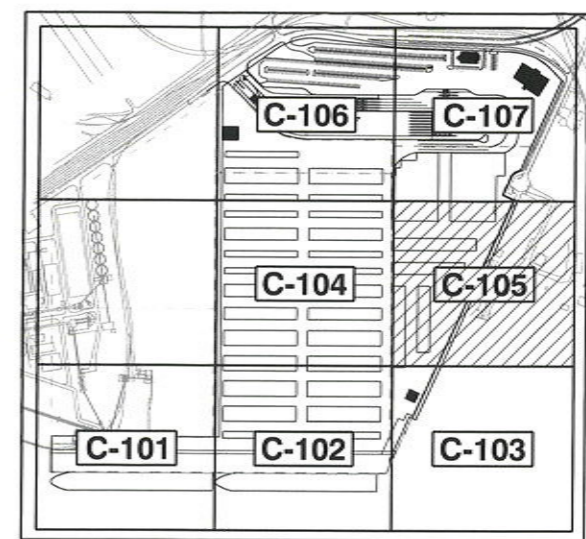
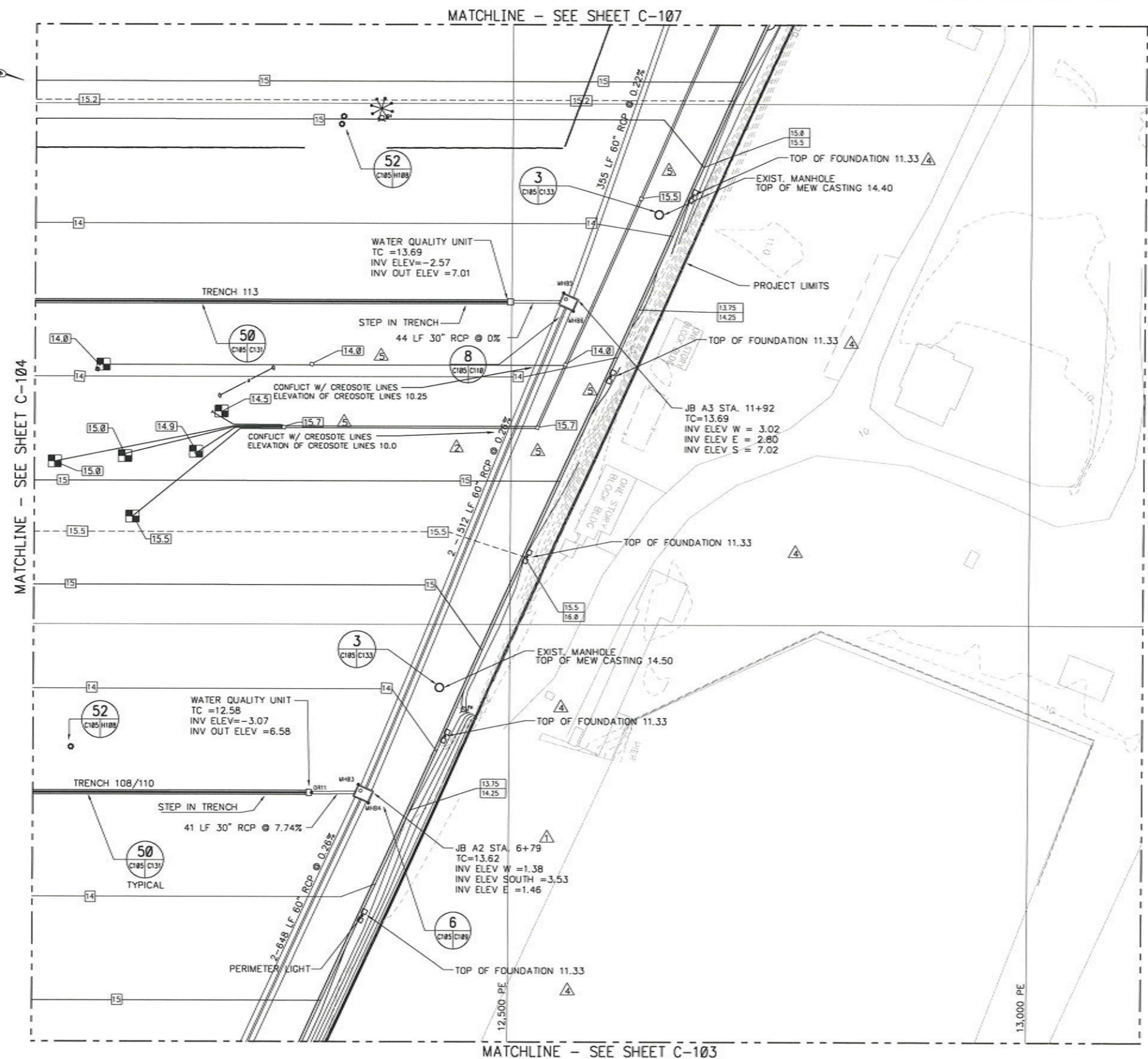


DESIGNED BY  
RAA  
DRAWN BY  
RBB  
CHECKED BY  
RAA  
PROJECT ENGR  
RAA

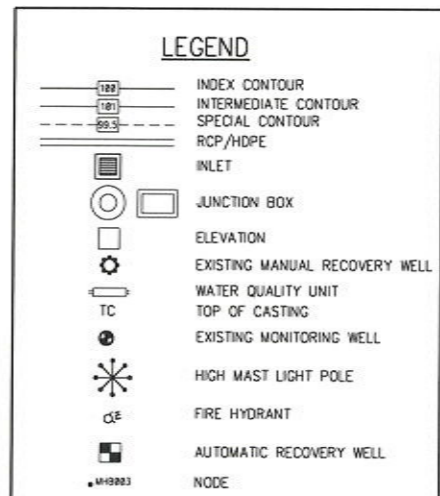
CONTAINER TERMINAL  
AT CHOCTAW POINT  
PAVEMENT, UTILITIES, AND GATE STRUCTURES

PARTIAL GRADING AND DRAINAGE PLAN  
SHEET 3 OF 7

SCALE  
1"=50'  
DATE  
10/10/07  
REVISION  
3  
DRAWING NO.  
C-103



**KEY PLAN**  
1"=500' 0 500 1000 FT.



**NOTES:**

- CONTRACTOR TO FILL WITH SAND/CLAY TO BRING PREPARED SUBGRADE TO RECEIVE STABILIZED SAND/CLAY. COMPACT SAND/CLAY TO 100% PROCTOR.
- CONTRACTOR TO REMOVE AND RESTORE WELDED WIRE WALL DISTRIBUTED BY STORM DRAIN INSTALLATION.

NODE ID	PLANT EAST	PLANT NORTH
MH-B3	9154.84	12354.33
MH-B4	9171.90	12363.98
MH-B5	8679.82	12558.13
MH-B6	8698.89	12558.69

NODE ID	PLANT EAST	PLANT NORTH
DR11	9161.75	11552.48
DR18	8689.90	12501.75

1"=50' 0 50 100 FT.

**AS-BUILT**  
JUNE 20, 2009

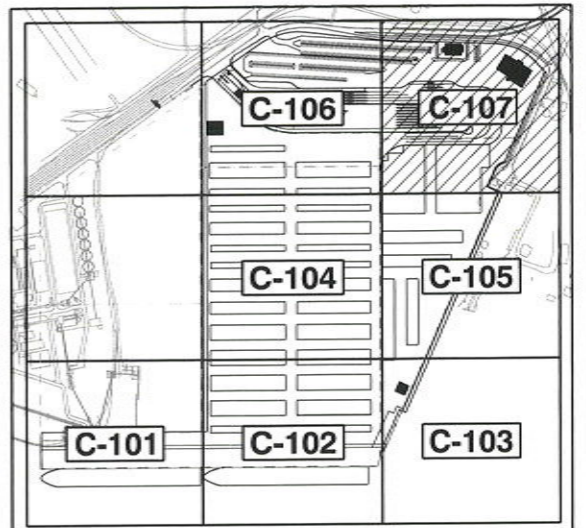
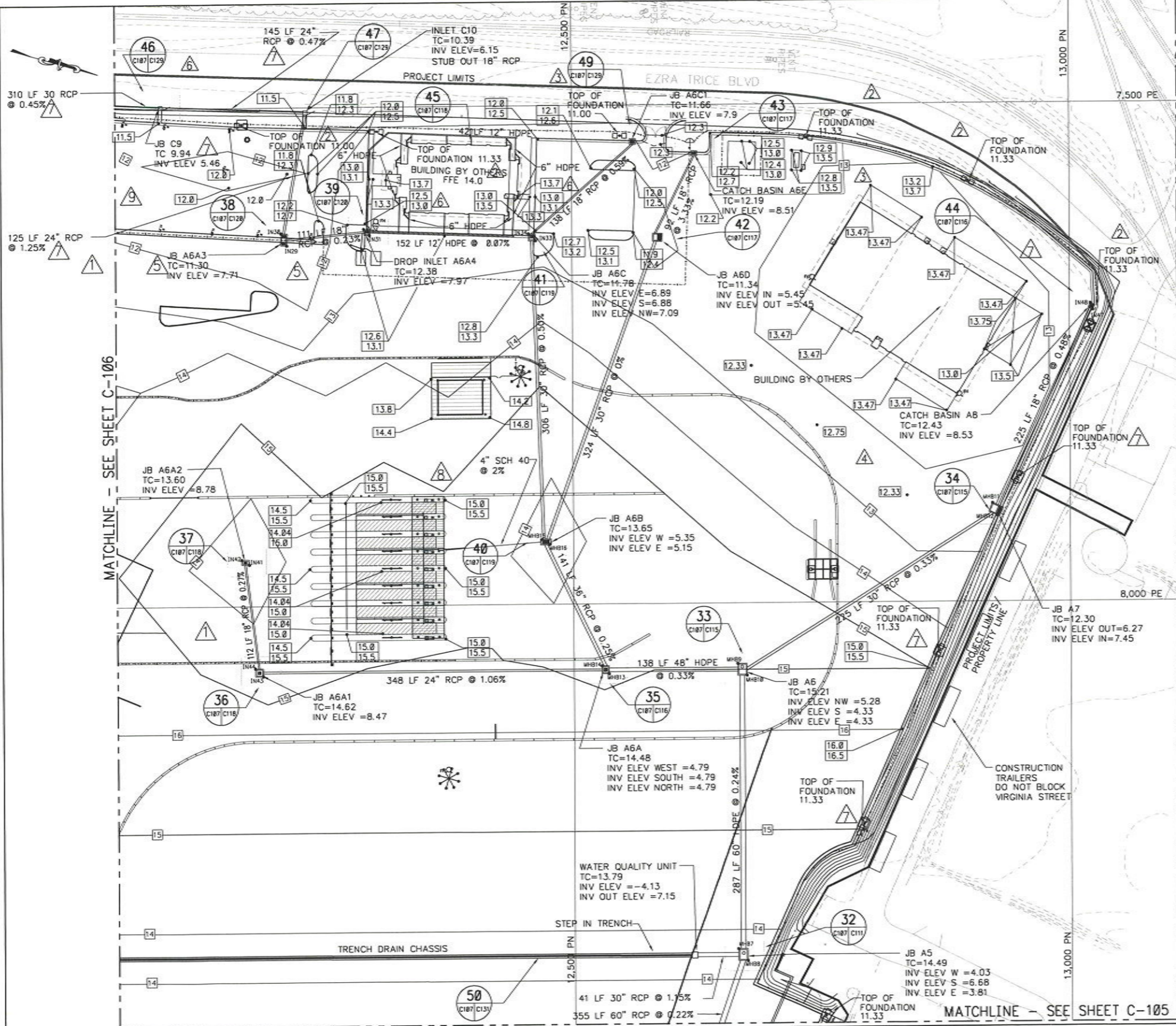
GRAPHIC SCALES  
CHECK BEFORE USE

IF SHEET IS LESS THAN 24" x 36"  
IT IS A REDUCED PRINT. SCALE  
ACCORDINGLY.

NO.	DESCRIPTION	DATE	BY	NO.	DESCRIPTION	DATE	BY
1	REVISED STA			5	ADDED EL TO CREOSOTE ELEC PULL BOXES	9/25/08RAA	
2	ADDED CONFLICT ELEVATION NOTE	7/18/08RAA		6	AS-BUILT	6/28/08RAA	
3	AMENDED REV NUMBER ADDED 'CURRENT CONST' BLOCK	3/18/08RAA					
4	ADDED EL TO PERIMETER LIGHT FOUNDATION	4/22/08RAA					

DESIGNED BY RAA	<b>CONTAINER TERMINAL AT CHOCTAW POINT PAVEMENT, UTILITIES, AND GATE STRUCTURES</b>	SCALE 1"=50'	REVISION 6
DRAWN BY RBB		DATE 10/10/07	
CHECKED BY RAA		DRAWING NO. C-105	
PROJECT ENGR RAA			

**PARTIAL GRADING AND DRAINAGE PLAN**  
SHEET 5 OF 7



**KEY PLAN**

1"=500' 0 500 1000 FT.

**LEGEND**

- INDEX CONTOUR
- INTERMEDIATE CONTOUR
- SPECIAL CONTOUR
- RCP/HDPE
- INLET
- JUNCTION BOX
- ELEVATION
- EXISTING MANUAL RECOVERY WELL
- WATER QUALITY UNIT
- TOP OF CASTING
- EXISTING MONITORING WELL
- HIGH MAST LIGHT POLE
- FIRE HYDRANT
- NODE

**NOTES:**

1. CONTRACTOR TO FILL WITH SAND/CLAY TO BRING PREPARED SUBGRADE TO RECEIVE STABILIZED SAND/CLAY. COMPACT SAND/CLAY TO 100% PROCTOR.
2. CONTRACTOR TO REMOVE AND RESTORE WELDED WIRE WALL DISTURBED BY STORM DRAIN INSTALLATION.

NODE ID	PLANT EAST	PLANT NORTH
DR19	8353.77	12623.02

NODE JB	PLANT EAST	PLANT NORTH	NODE ID	PLANT EAST	PLANT NORTH
MHB7	8347.75	12664.25	IN36	7533.96	12563.00053
MHB8	8359.75	12673.75	IN37	7532.69	12645.32614
MHB9	8060.94	12664.63	IN38	7527.48	12639.51433
MHB10	8072.93	12674.13	IN39	7637.77	12608.31068
MHB11	7901.32	12922.34	IN40	7643.95	12616.12588
MHB12	7913.92	12927.14	IN41	7958.24	12173.64786
MHB13	8070.24	12534.67	IN42	7953.24	12165.64418
MHB14	8062.24	12527.66	IN43	8070.62	12187.32447
MHB15	7939.86	12476.13	IN44	8062.62	12179.32268
MHB16	7934.87	12468.63	IN47	7708.08	13023.25946
			IN48	7701.46	13020.77428

1"=50' 0 50 100 FT.

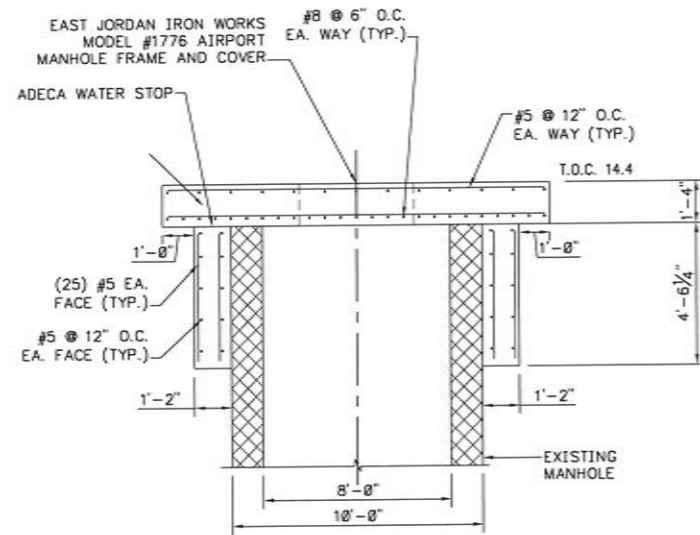
**AS-BUILT**  
JUNE 20, 2009

GRAPHIC SCALES  
CHECK BEFORE USE  
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ACCORDINGLY

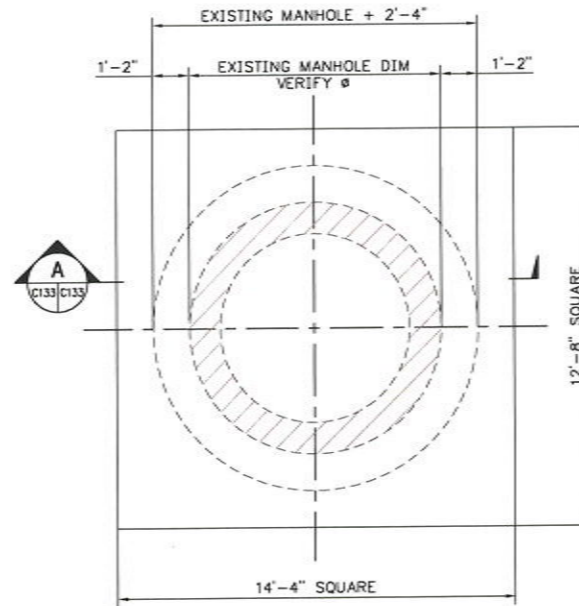
NO.	DESCRIPTION	DATE	BY	NO.	DESCRIPTION	DATE	BY
1	REVISED STORM DRAIN	1/18/08	RAA	5	REVISED DRAINAGE DUE TO DITCH LINING	5/17/08	RAA
2	ADDED PERIMETER LIGHT FOUNDATION ELEVATION	2/28/08	RAA	6	ADDED SPOT SHOTS AROUND BUILDING ADDED JUNCTION C9A PER HDR	4/7/08	RAA
3	ADDED SPOT ELEV AT SUB 4 AND DETAIL CALLOUT FOR DOWN SPOUT ADDED 'CURRENT CONST' BLOCK	3/18/08	RAA	7	REV TRAILS FROM PERIMETER LIGHTS MAINT BLDG ELEV GRADES AROUND SCALES ADD FOUNDATION EL FOR PERIMETER LIGHTS	4/22/08	RAA
4	ADDED SPOT ELEV AROUND MAINT BLDG	3/15/08	RAA	8	ADDED DRAINS AND D/W SEP TO SCALES	5/27/08	RAA
9	REVISED GRADES TO MATCH INSTALLED CURB	7/14/08	RAA	10	AS-BUILT	6/28/09	RAA



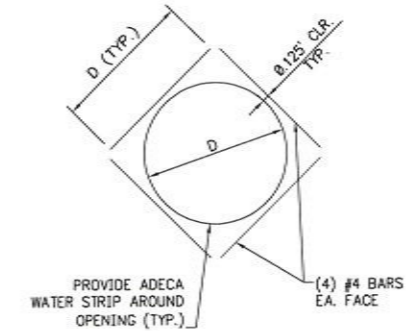
DESIGNED BY RAA	<b>CONTAINER TERMINAL AT CHOCTAW POINT PAVEMENT, UTILITIES, AND GATE STRUCTURES</b>	SCALE 1"=50'	REVISION
DRAWN BY RBB		DATE 10/10/07	10
CHECKED BY RAA		DRAWING NO.	C-107
PROJECT ENGR RAA		<b>PARTIAL GRADING AND DRAINAGE PLAN SHEET 7 OF 7</b>	



**A** SECTION  
SCALE: 3/8"=1'-0"



**3** EXISTING STORM DRAIN MANHOLE REFIT  
SCALE: 3/8"=1'-0"



OPENING REINF. (TYP.)  
SCALE: 3/8"=1'-0"

3/8"=1'-0" 0 1 5 FT.

**AS-BUILT**  
JUNE 20, 2009

GRAPHIC SCALES  
CHECK BEFORE USE

IF SHEET IS LESS THAN 24" X 36"  
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ACCORDINGLY

NO.	DESCRIPTION	DATE	BY	NO.	DESCRIPTION	DATE	BY
1	ADDED "CURRENT CONST" BLOCK	3/10/08	RAA				
2	AS-BUILT	6/20/09	RAA				

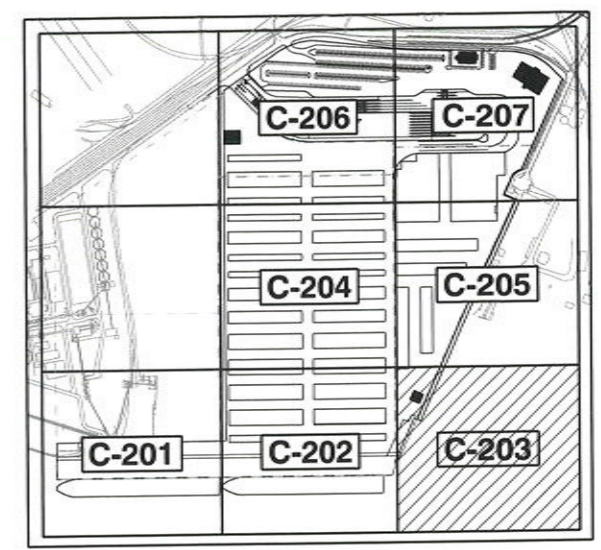
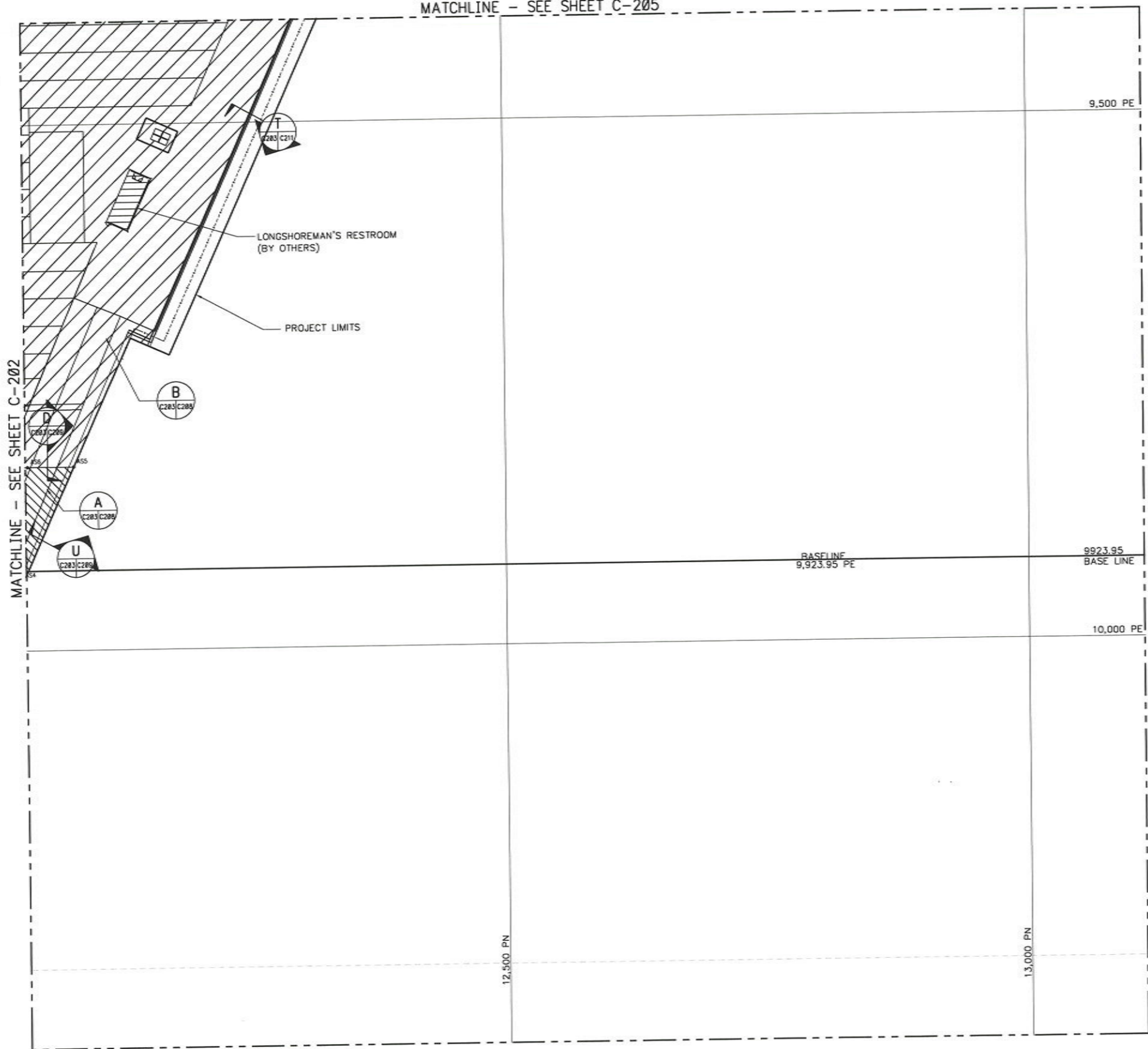


DESIGNED BY  
RAA  
DRAWN BY  
S.S.  
CHECKED BY  
RAA  
PROJECT ENGR  
RAA

CONTAINER TERMINAL  
AT CHOCTAW POINT  
PAVEMENT, UTILITIES, AND GATE STRUCTURES  
  
DRAINAGE STRUCTURE DETAILS/  
RETROFIT FOR EXISTING STORM  
DRAIN MANHOLES

SCALE  
3/8"=1'-0"  
DATE  
10/10/07  
REVISION  
**2**  
DRAWING NO.  
**C-133**

MATCHLINE - SEE SHEET C-205



**KEY PLAN**

1"=500' 0 500 1000 FT.

**LEGEND**

- INLET
- RCC SECTION A
- RCC SECTION B
- ASPHALT SECTION C
- CONCRETE
- LANDSCAPE
- HIGHMAST LIGHT POLE

SEE SHEET C-288 FOR PAVING SECTIONS

NODE ID	PLANT EAST	PLANT NORTH
AS4	9923.95	12038.33
AS5	9925.25	12087.81
AS6	9825.25	12043.00

1"=50' 0 50 100 FT.

**AS-BUILT**  
JUNE 20, 2009

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ACCORDINGLY

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1	ADDED "CURRENT CONST" BLOCK	3/18/08	RAA				
2	AS-BUILT	6/28/09	RAA				

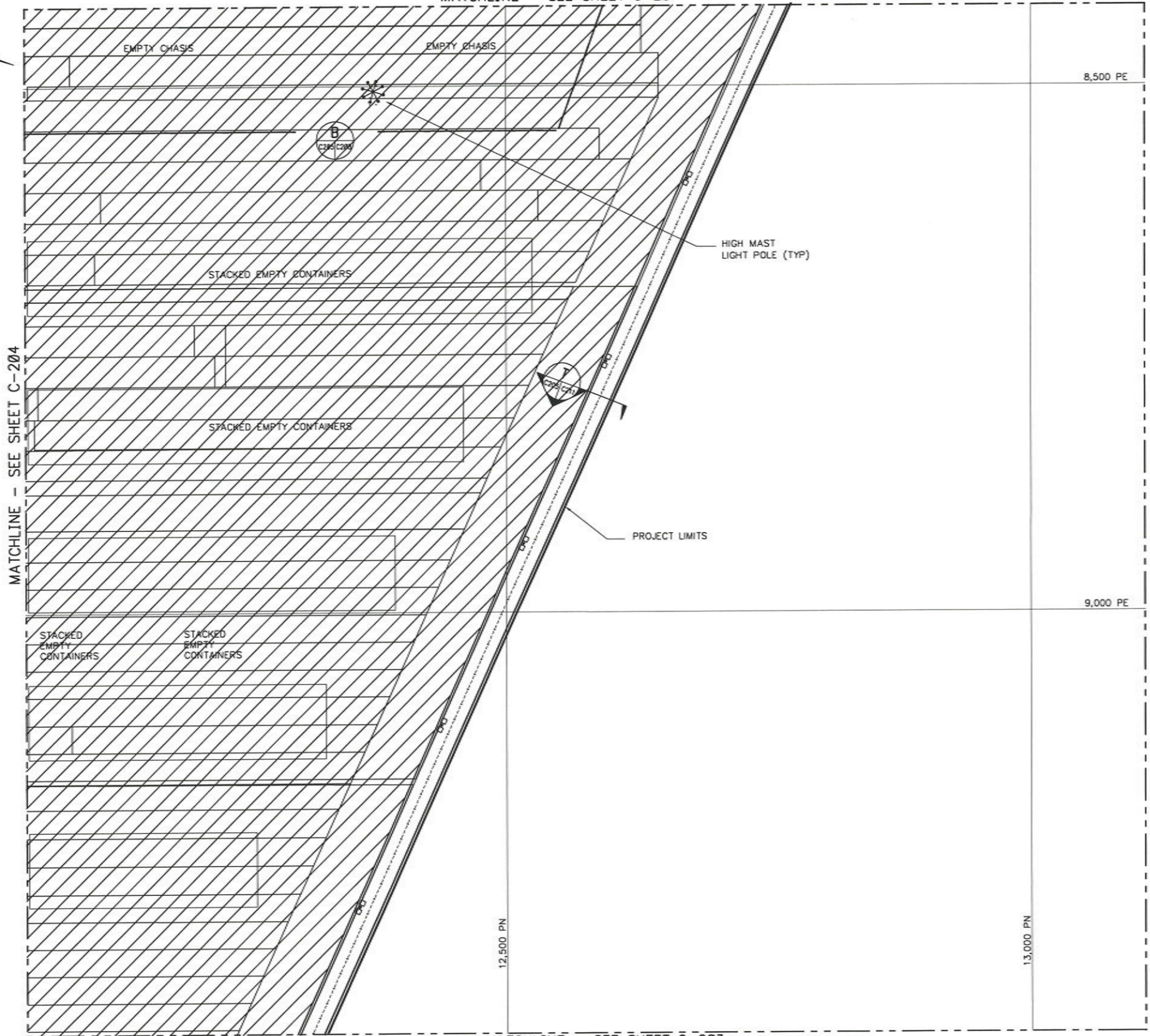


DESIGNED BY  
RAA  
DRAWN BY  
RBB  
CHECKED BY  
RAA  
PROJECT ENGR  
RAA

CONTAINER TERMINAL  
AT CHOCTAW POINT  
PAVEMENT, UTILITIES, AND GATE STRUCTURES  
  
PARTIAL PAVING PLAN  
SHEET 3 OF 7

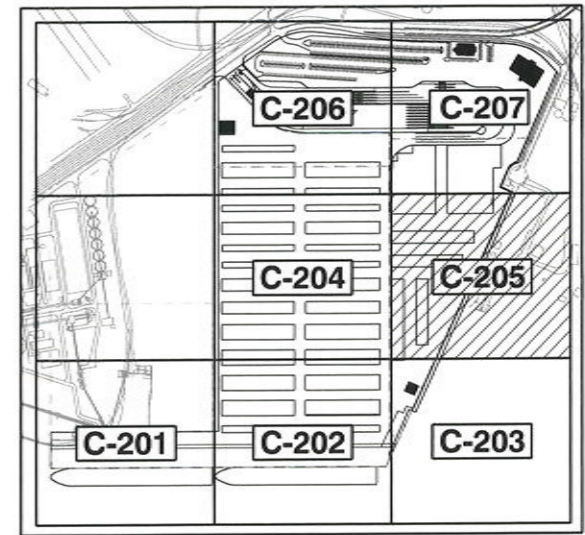
SCALE  
1"=50'-0"  
DATE  
10/10/07  
REVISION  
2  
DRAWING NO.  
C-203

MATCHLINE - SEE SHEET C-207



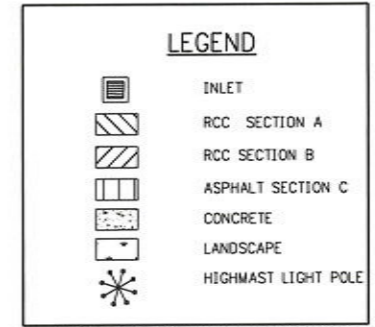
MATCHLINE - SEE SHEET C-204

MATCHLINE - SEE SHEET C-203



KEY PLAN

1"=500' 0 500 1000 FT.



1"=50' 0 50 100 FT.

**AS-BUILT**  
JUNE 20, 2009

GRAPHIC SCALES  
CHECK BEFORE USE

IF SHEET IS LESS THAN 24" X 36"  
IT IS A REDUCED PRINT. SCALE  
ACCORDINGLY

NO.	DESCRIPTION	DATE	BY	NO.	DESCRIPTION	DATE	BY
1	ADDED "CURRENT CONST" BLOCK	3/18/08	RAA				
2	AS-BUILT	6/28/09	RAA				

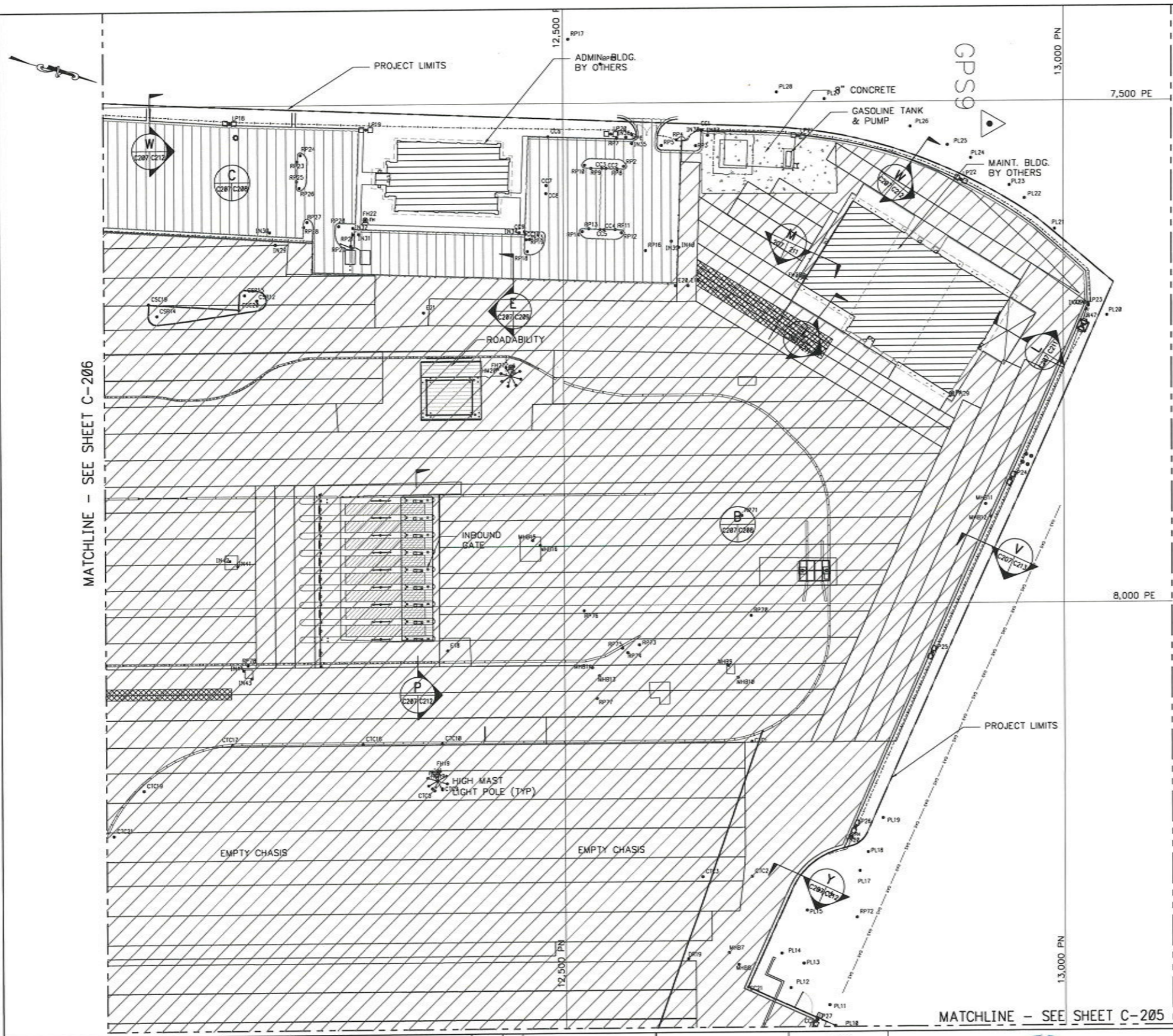


DESIGNED BY  
RAA  
DRAWN BY  
RBB  
CHECKED BY  
RAA  
PROJECT ENGR  
RAA

CONTAINER TERMINAL  
AT CHOCTAW POINT  
PAVEMENT, UTILITIES, AND GATE STRUCTURES

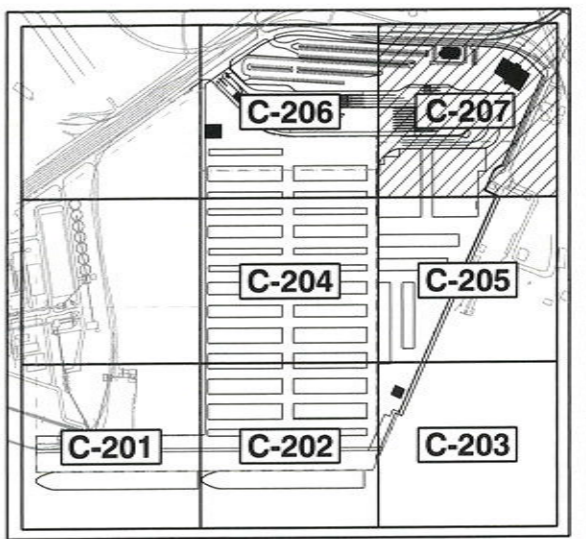
PARTIAL PAVING PLAN  
SHEET 5 OF 7

SCALE  
1"=50'-0"  
DATE  
10/10/07  
REVISION  
2  
DRAWING NO.  
C-205



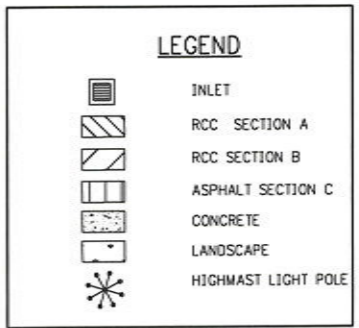
MATCHLINE - SEE SHEET C-206

MATCHLINE - SEE SHEET C-205



**KEY PLAN**

1"=500' 0 500 1000 FT.



SEE SHEET C-208 FOR PAVING SECTIONS

1"=50' 0 50 100 FT.

**AS-BUILT**

JUNE 20, 2009

GRAPHIC SCALES  
CHECK BEFORE USE  
IF SHEET IS LESS THAN 24" X 36"  
IT IS A REDUCED PRINT. SCALE  
ACCORDINGLY

REVISIONS	NO.	DESCRIPTION	DATE	BY	NO.	DESCRIPTION	DATE	BY
	1	ADDED "CURRENT CONST" BLOCK	5/18/08	RAA				
	2	AS-BUILT	6/28/09	RAA				



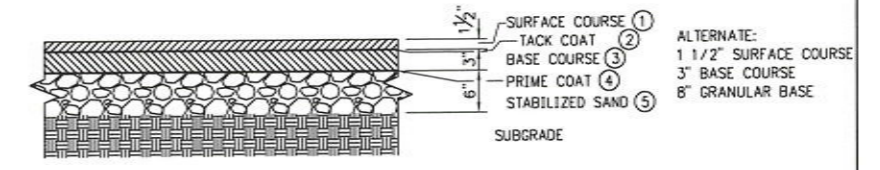
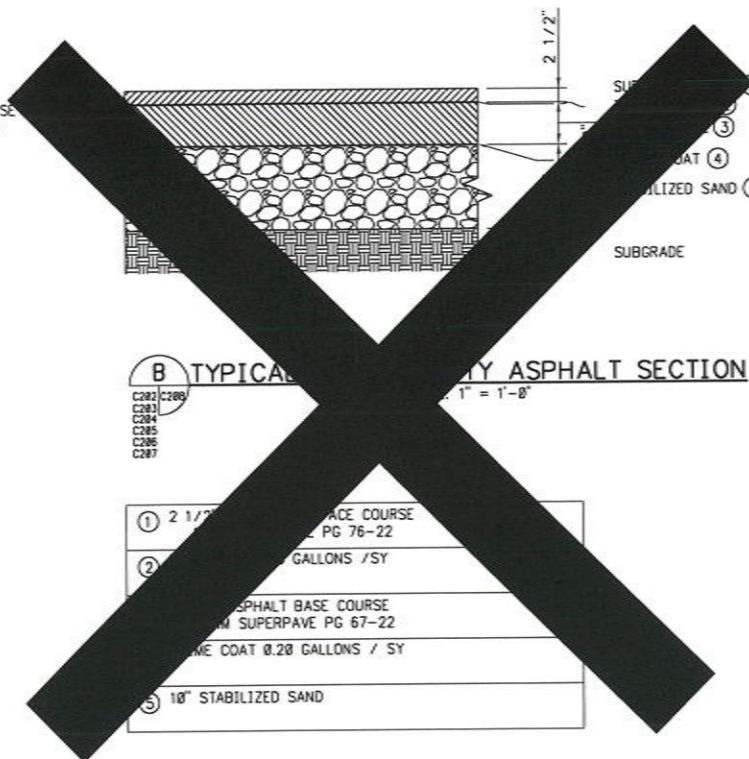
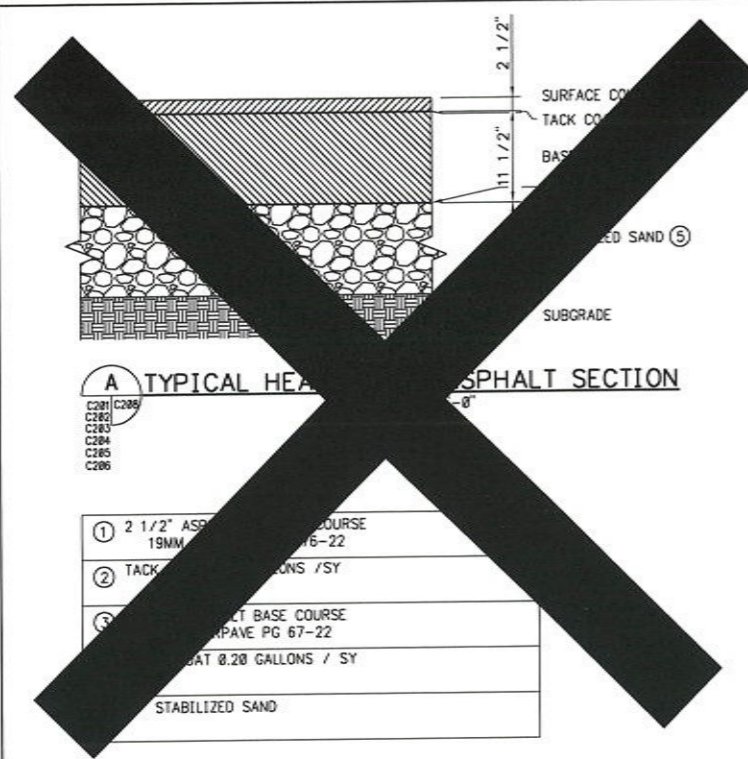
DESIGNED BY RAA
DRAWN BY RBB
CHECKED BY RAA
PROJECT ENGR RAA

**CONTAINER TERMINAL  
AT CHOCTAW POINT  
PAVEMENT, UTILITIES, AND GATE STRUCTURES**

**PARTIAL PAVING PLAN  
SHEET 7 OF 7**

SCALE 1"=50'-0"	REVISION <b>2</b>
DATE 10/10/07	DRAWING NO. <b>C-207</b>





**A TYPICAL HEAVY DUTY ASPHALT SECTION**  
SCALE: 1" = 1'-0"

**B TYPICAL MEDIUM DUTY ASPHALT SECTION**  
SCALE: 1" = 1'-0"

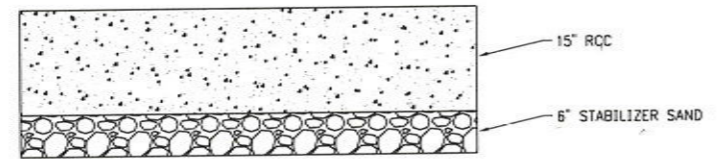
**C TYPICAL LIGHT DUTY ASPHALT SECTION**  
SCALE: 1" = 1'-0"

①	2 1/2" ASPHALT SURFACE COURSE 19MM SUPERPAVE PG 67-22
②	TACK COAT 0.20 GALLONS / SY
③	12 1/2" ASPHALT BASE COURSE 19MM SUPERPAVE PG 67-22
	PRIME COAT 0.20 GALLONS / SY
	STABILIZED SAND

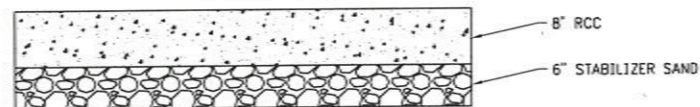
①	2 1/2" ASPHALT SURFACE COURSE 19MM SUPERPAVE PG 76-22
②	TACK COAT 0.20 GALLONS / SY
③	5 1/2" ASPHALT BASE COURSE 19MM SUPERPAVE PG 67-22
	PRIME COAT 0.20 GALLONS / SY
⑤	10" STABILIZED SAND

①	1 1/2" ASPHALT SURFACE COURSE 19MM SUPERPAVE PG 67-22
②	TACK COAT 0.05 GALLONS / SY
③	3" ASPHALT BASE COURSE 25MM SUPERPAVE PG 67-22
④	PRIME COAT 0.20 GALLONS / SY
⑤	6" STABILIZED SAND

**RCC SECTION A**  
SCALE: 1" = 1'-0"



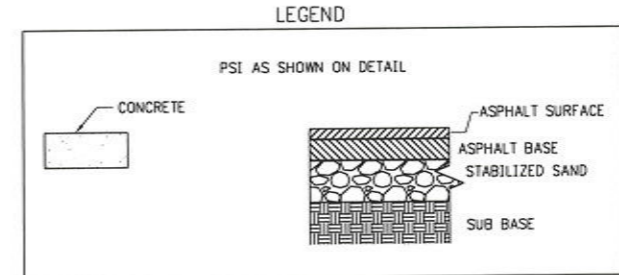
**RCC SECTION B**  
SCALE: 1" = 1'-0"



**ALTERNATE RCC SECTION**  
SCALE: 1" = 1'-0"



PRELIMINARY DESIGN	OPTION 1	OPTION 2	OPTION 3
SECTION A	2 1/2" HMA SURFACE COURSE 12 1/2" HMA BASE 13" GRANULAR BASE	2 1/2" HMA SURFACE COURSE 11 1/2" HMA BASE 13" STABILIZED SAND	15" RCC 6" STABILIZED SAND
SECTION B	2 1/2" HMA SURFACE COURSE 5 1/2" HMA BASE 12" GRANULAR BASE	2 1/2" HMA SURFACE COURSE 4 1/2" HMA BASE 10" STABILIZED SAND	8" RCC 6" STABILIZED SAND
SECTION C	1 1/2" HMA SURFACE COURSE 3" HMA BASE 8" GRANULAR BASE	1 1/2" HMA SURFACE COURSE 3" HMA BASE 6" STABILIZED SAND	6" RCC 6" STABILIZED SAND
CONTAINER STACKING	BPA MANUAL REQUIRES A MIN. 15" RCC FOR STACKING LOADED CONTAINERS IN BLOCKS 5 HIGH BPA MANUAL REQUIRES A MIN. 8" IN RCC FOR STACKING EMPTY CONTAINERS IN BLOCKS 3 HIGH		
NOTE: THE CONTRACTOR SHALL PROVIDE EXAMPLES OF MATERIALS DESIGN, WORKMANSHIP AND IN-SERVICE PERFORMANCE FROM SIMILAR PROJECTS. THE LABORATORY AND FIELD TRAILS ARE TO BE COMPLETED AND THE DESIGN REVIEWED BEFORE CONSTRUCTION.			



~~NOTE:  
1. PLACE ASPHALTIC CONCRETE IN LIFTS NOT TO EXCEED 4 1/2"  
2. PLACE RCC IN LIFTS NOT EXCEED 8"  
3. CONTRACTOR MUST SUBMIT FINAL RCC DESIGN PRIOR TO IMPLEMENTATION  
4. REFER TO SHEET R-102 FOR LIMITS OF RCC~~

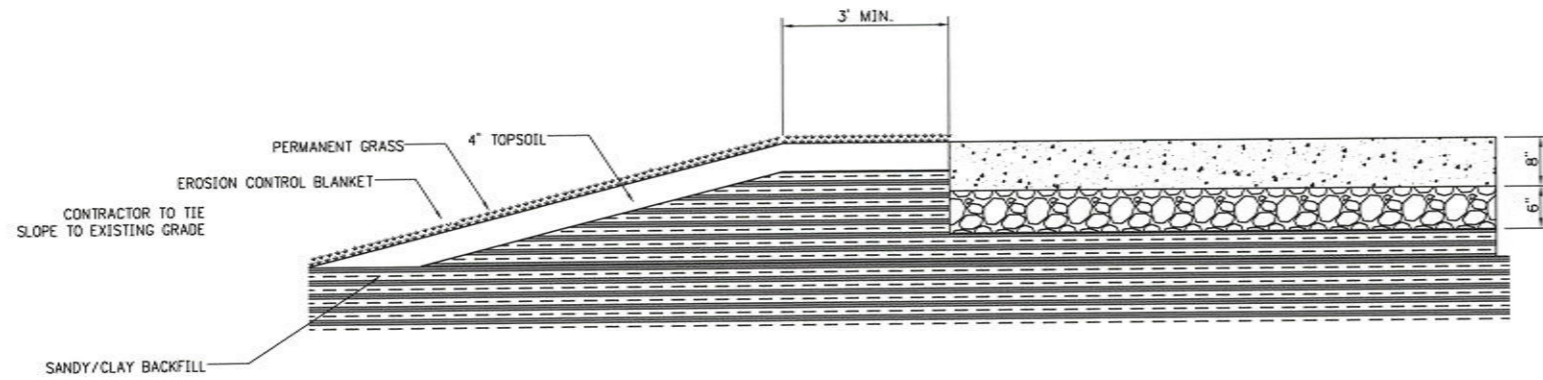


**AS-BUILT**  
JUNE 20, 2009

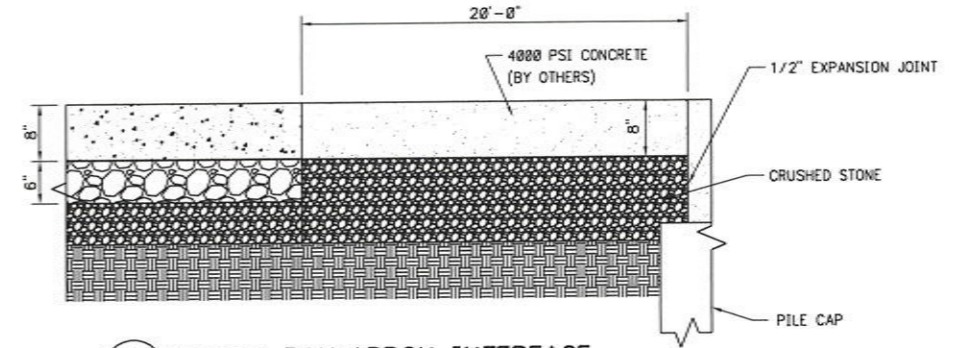
GRAPHIC SCALES  
CHECK BEFORE USE  
IF SHEET IS LESS THAN 24" X 36"  
IT IS A REDUCED PRINT SCALE  
ACCORDINGLY

NO.	DESCRIPTION	DATE	BY	NO.	DESCRIPTION	DATE	BY
1	CHANGED STATION TO SECTION ADDED NOTE 4.	8/5/07	RA				
2	ADDED "CURRENT CONST" BLOCK	3/10/08	RAA				
3	AS-BUILT	6/20/09	RAA				

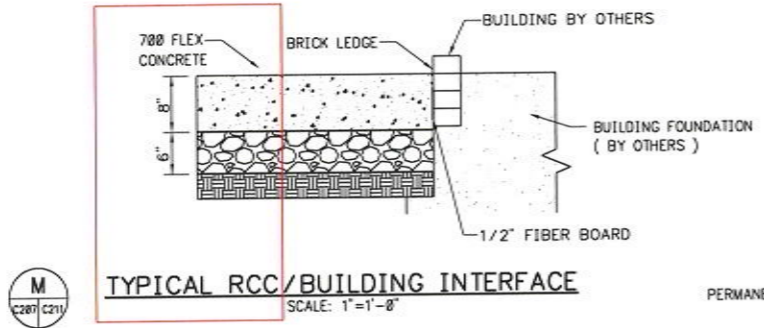
DESIGNED BY BA	<b>CONTAINER TERMINAL AT CHOCTAW POINT PAVEMENT, UTILITIES, AND GATE STRUCTURES</b>	SCALE 1" = 1'-0"	REVISION
DRAWN BY JTB		DATE 10/10/07	3
CHECKED BY		DRAWING NO.	
PROJECT ENGR		C-208	



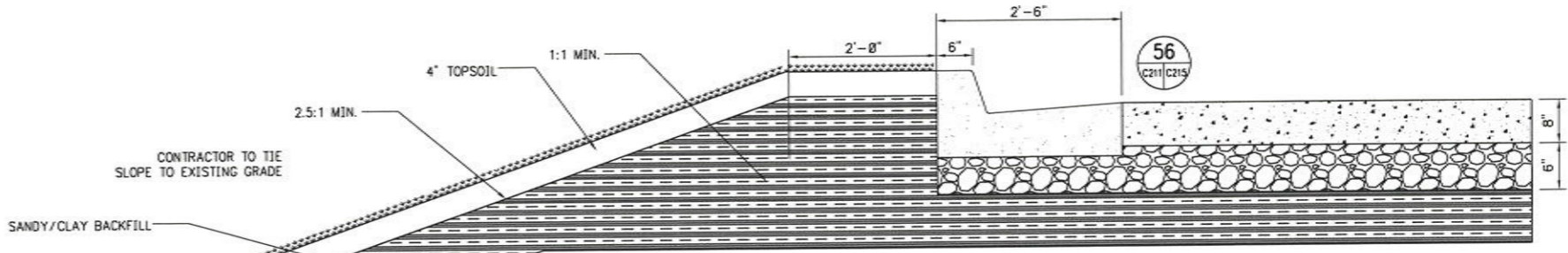
**R** TYPICAL TRANSITION FROM RCC SECTION B TO UNPAVED SURFACE  
SCALE: 1"=1'-0"



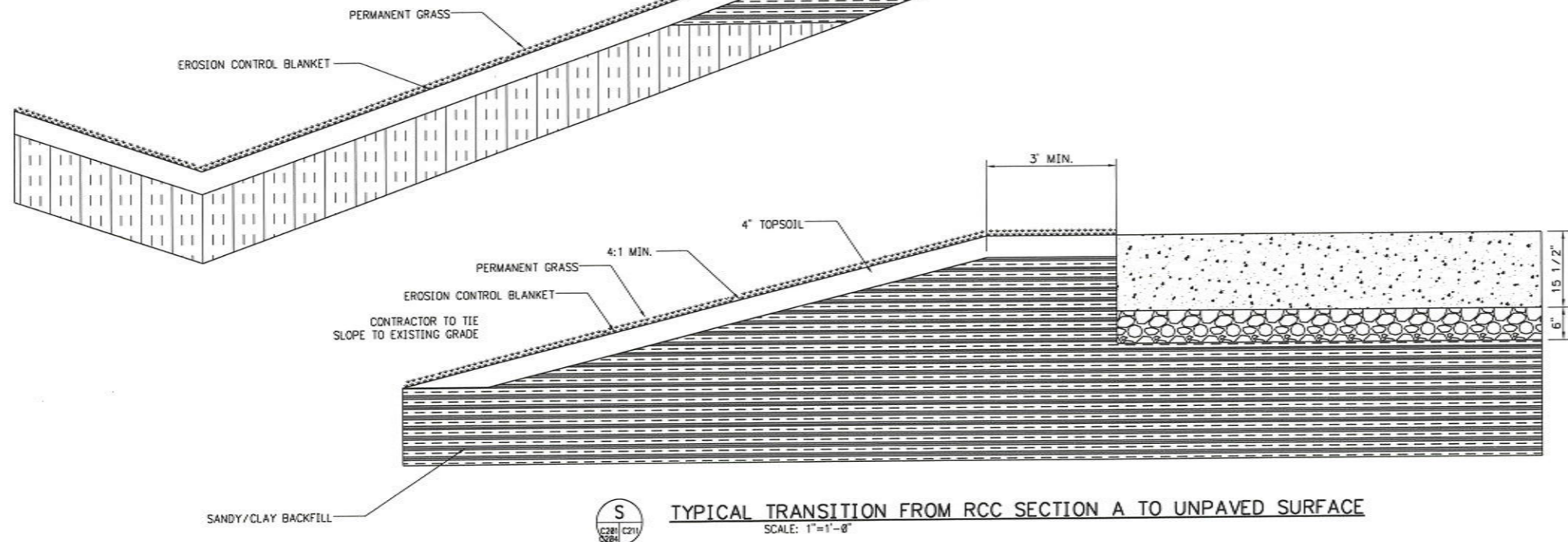
**L** TYPICAL BAY APRON INTERFACE  
SCALE: 1"=1'-0"



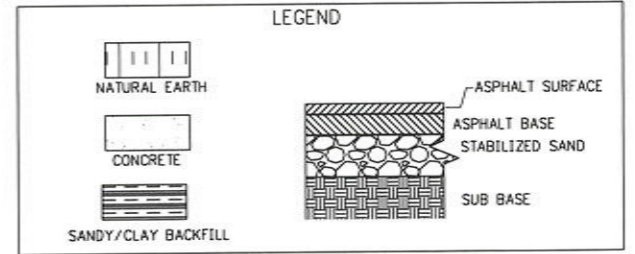
**M** TYPICAL RCC/BUILDING INTERFACE  
SCALE: 1"=1'-0"



**T** TYPICAL TRANSITION FROM RCC SECTION B TO UNPAVED SURFACE WITH CURB  
SCALE: 1"=1'-0"



**S** TYPICAL TRANSITION FROM RCC SECTION A TO UNPAVED SURFACE  
SCALE: 1"=1'-0"



NOTES:  
1. FOR TYPICAL ASPHALT A, B, & C DETAILS  
SEE DRAWING C-288.



**AS-BUILT**  
JUNE 20, 2009

GRAPHIC SCALES  
CHECK BEFORE USE  
IF SHEET IS LESS THAN 24" X 36"  
IT IS A REDUCED PRINT. SCALE  
ACCORDINGLY

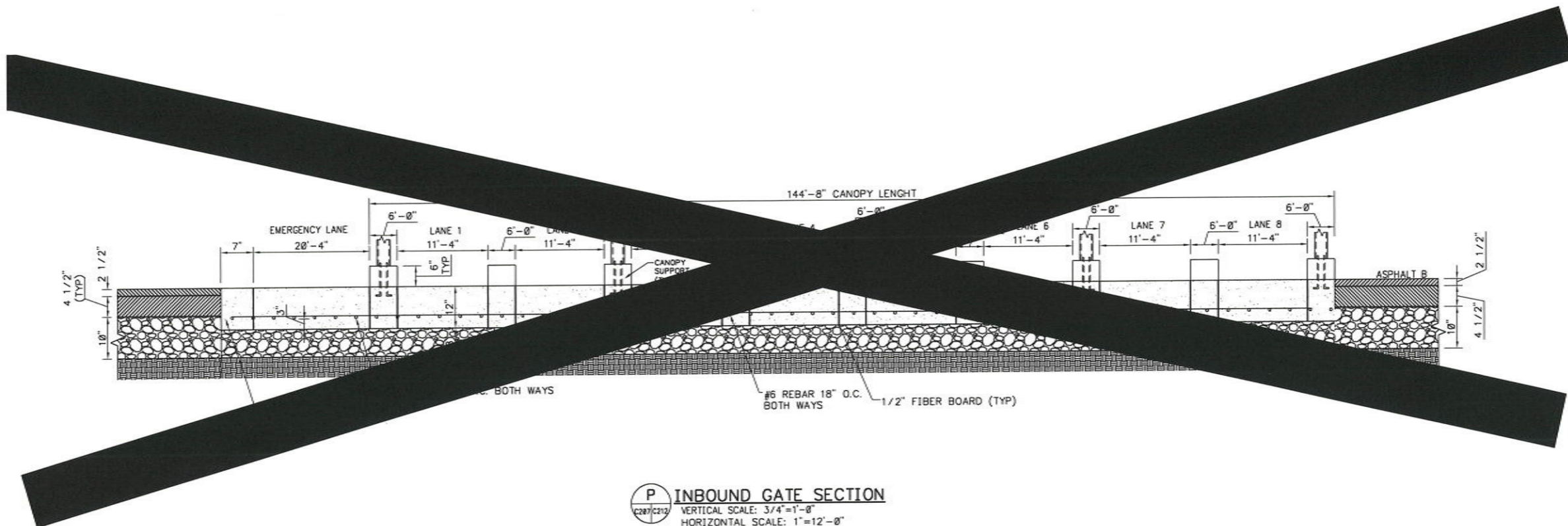
NO.	DESCRIPTION	DATE	BY	NO.	DESCRIPTION	DATE	BY
1	ADDED "CURRENT CONST" BLOCK	3/18/08	RAA				
2	AS-BUILT	6/20/09	RAA				



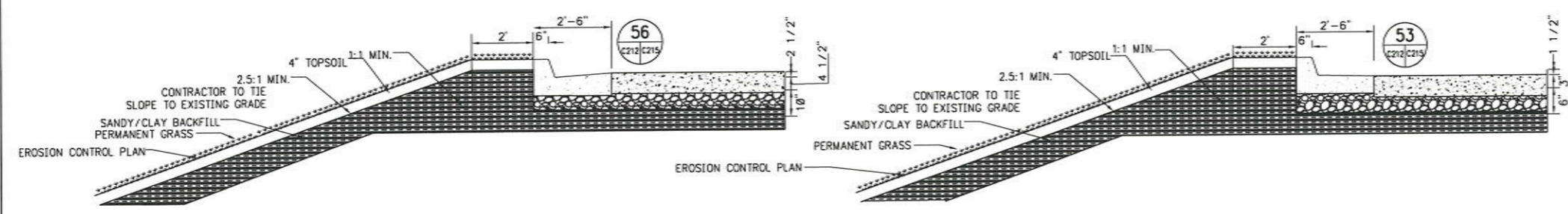
DESIGNED BY  
BA  
DRAWN BY  
LAH  
CHECKED BY  
PROJECT ENGR

CONTAINER TERMINAL  
AT CHOCTAW POINT  
PAVEMENT, UTILITIES, AND GATE STRUCTURES  
PAVEMENT SECTIONS AND DETAILS  
SHEET 4 OF 9

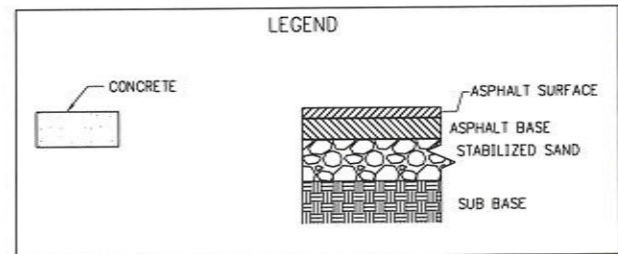
SCALE  
1"=1'-0"  
DATE  
10/10/07  
REVISION  
2  
DRAWING NO.  
C-211



**P INBOUND GATE SECTION**  
 VERTICAL SCALE: 3/4"=1'-0"  
 HORIZONTAL SCALE: 1"=12'-0"



**Y TYPICAL TRANSITION FROM RCC SECTION B TO UNPAVED SURFACE WITH CURB**  
 SCALE: 1"=2'-0"



**W TYPICAL TRANSITION FROM RCC SECTION B TO UNPAVED SURFACE WITH CURB**  
 SCALE: 1"=2'-0"

NOTES:  
 1. FOR TYPICAL ASPHALT A, B, & C DETAILS SEE DRAWING C-288.



**AS-BUILT**  
 JUNE 20, 2009

GRAPHIC SCALES  
 CHECK BEFORE USE  
 IF SHEET IS LESS THAN 24" X 36"  
 IT IS A REDUCED PRINT. SCALE  
 ACCORDINGLY

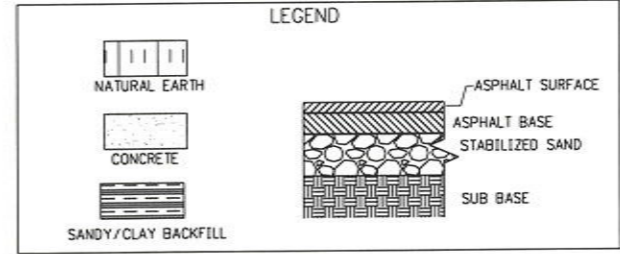
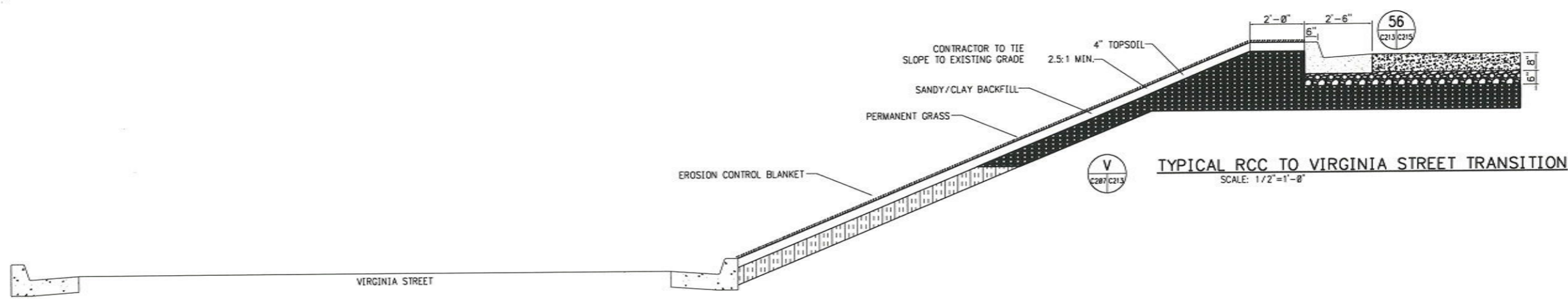
NO.	DESCRIPTION	DATE	BY	NO.	DESCRIPTION	DATE	BY
1	ADDED "CURRENT CONST" BLOCK	5/10/08	RAA				
2	AS-BUILT	6/20/09	RAA				



DESIGNED BY BA
DRAWN BY JTB
CHECKED BY
PROJECT ENGR

CONTAINER TERMINAL  
 AT CHOCTAW POINT  
 PAVEMENT, UTILITIES, AND GATE STRUCTURES  
 PAVEMENT SECTIONS AND DETAILS  
 SHEET 5 OF 9

SCALE 3/4"=1'-0"	REVISION 2
DATE 10/10/07	DRAWING NO. C-212



NOTES:  
 1. FOR TYPICAL ASPHALT A, B, & C DETAILS  
 SEE DRAWING C-208.



**AS-BUILT**  
 JUNE 20, 2009

GRAPHIC SCALES  
 CHECK BEFORE USE  
 IF SHEET IS LESS THAN 24" X 36"  
 IT IS A REDUCED PRINT. SCALE  
 ACCORDINGLY

NO.	DESCRIPTION	DATE	BY	NO.	DESCRIPTION	DATE	BY
1	ADDED "CURRENT CONST" BLOCK	3/18/08	RAA				
2	AS-BUILT	6/20/09	RAA				

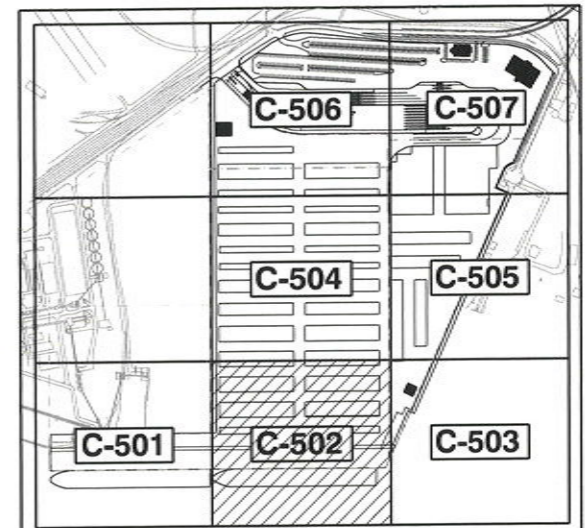
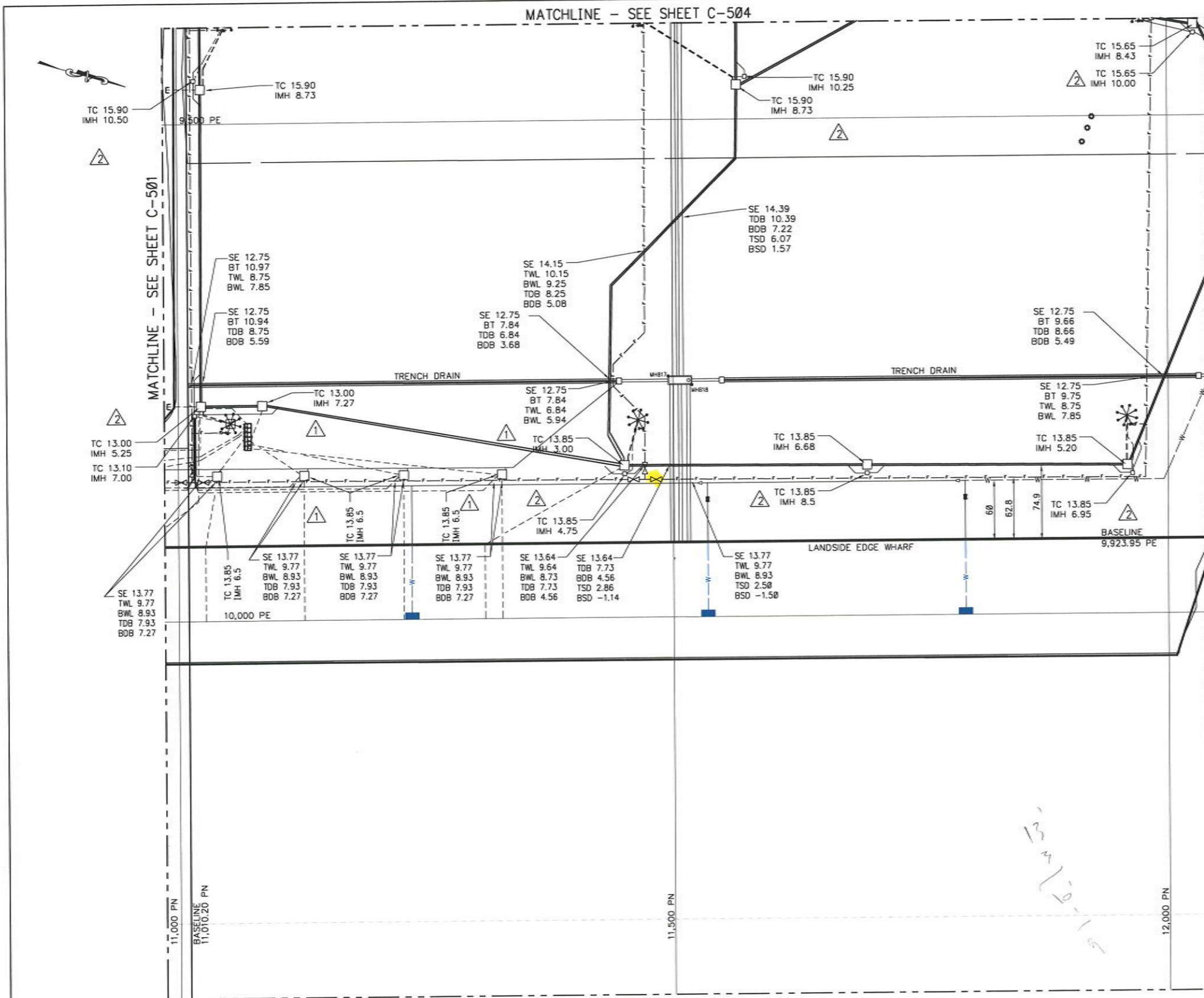


DESIGNED BY  
BA  
 DRAWN BY  
LAH  
 CHECKED BY  
 PROJECT ENGR

CONTAINER TERMINAL  
 AT CHOCTAW POINT  
 PAVEMENT, UTILITIES, AND GATE STRUCTURES  
 PAVEMENT SECTIONS AND DETAILS  
 SHEET 6 OF 9

SCALE  
1/2"=1'-0"  
 DATE  
10/10/07  
 REVISION  
2  
 DRAWING NO.  
C-213

MATCHLINE - SEE SHEET C-504



KEY PLAN

1" = 500' 0 500 1000 FT.

**LEGEND**

- INDEX CONTOUR
- INTERMEDIATE CONTOUR
- SPECIAL CONTOUR
- RCP/HDPE
- INLET
- JUNCTION BOX
- CONTOUR ELEVATION
- EXISTING MANUAL RECOVERY WELL
- WATER QUALITY UNIT
- TOP OF CASTING
- EXISTING MONITORING WELL
- HIGH MAST LIGHT POLE
- FIRE HYDRANT

SE = SURFACE ELEVATION  
 TWL = TOP OF WATER LINE  
 BWL = BOTTOM OF FIRE WATER LINE  
 TDB = TOP OF DUCT BANK  
 BDB = BOTTOM OF DUCT BANK  
 TSD = TOP OF STORM DRAIN  
 BSD = BOTTOM OF STORM DRAIN  
 TSW = TOP OF GRAVITY SEWER  
 BSW = BOTTOM OF GRAVITY SEWER  
 TC = TOP OF CASTING  
 IMH = INVERT OF MANHOLE  
 BT = BOTTOM OF TRENCH

NOTE:  
 CONTRACTOR DID NOT PROVIDE DATA FOR THE UTILITY CROSSINGS.

1" = 50' 0 50 100 FT.

**AS-BUILT**  
 JUNE 20, 2009

GRAPHIC SCALES  
 CHECK BEFORE USE  
 IF SHEET IS LESS THAN 24" X 36"  
 IT IS A REDUCED PRINT. SCALE  
 ACCORDINGLY.

NO.	DESCRIPTION	DATE	BY	NO.	DESCRIPTION	DATE	BY
1	REVISED DUCT BANK AND MANHOLE INVERTS	12/21/07	RAA				
2	ADDED COM MH INVERTS	1/18/08	RAA				
3	ADDED "CURRENT CONST" BLOCK	3/18/08	RAA				
4	AS-BUILT	6/20/09	RAA				

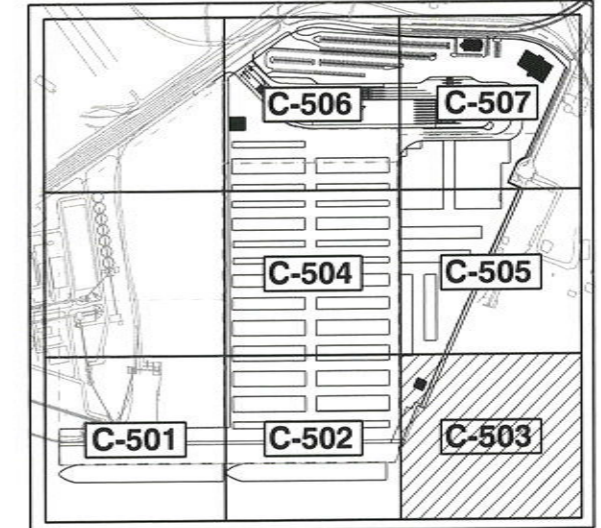
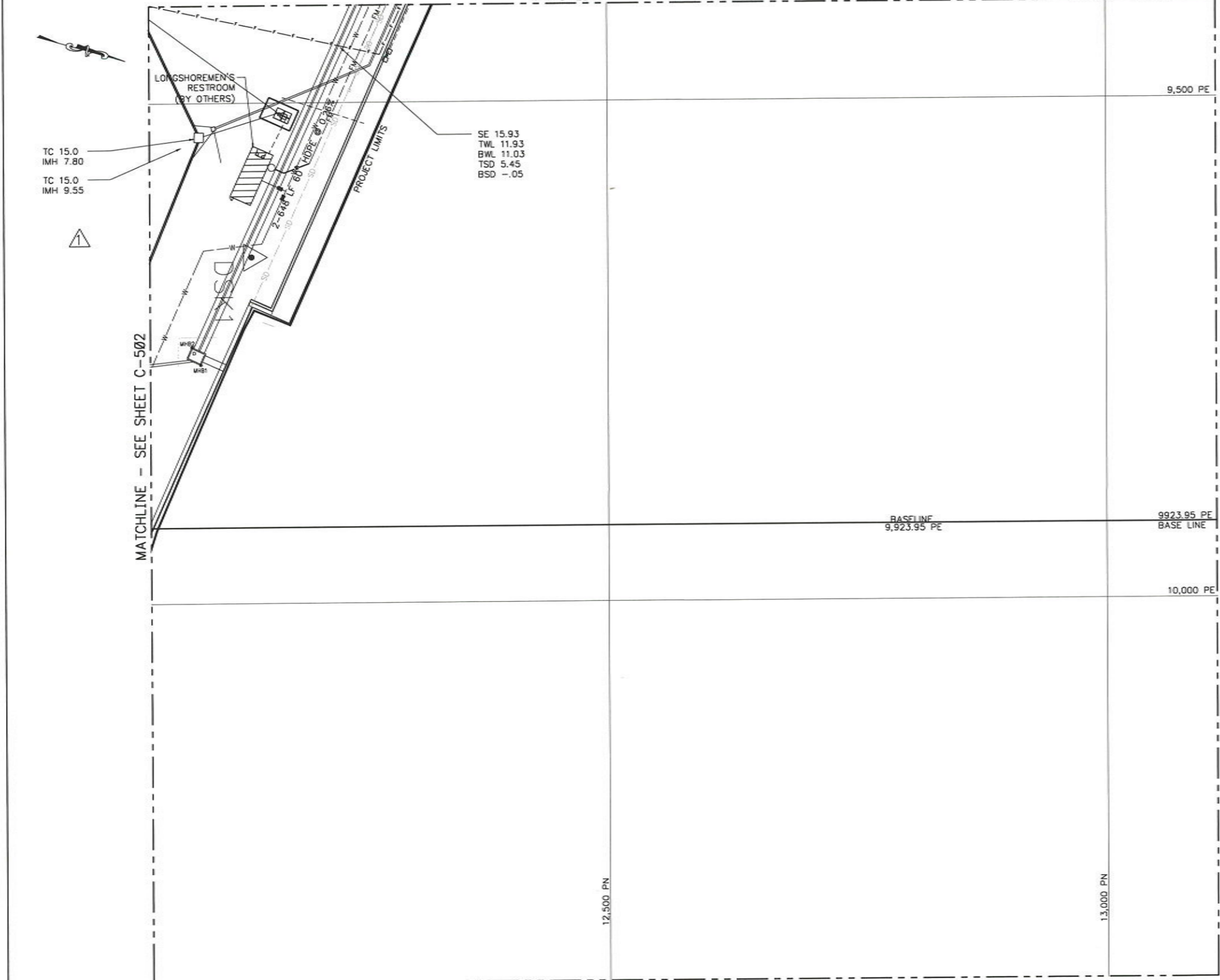
**HPA**

**GSE**  
 Gulf States Engineering  
 Consulting Solutions  
 4130 McNeil Road  
 Mobile, AL 36618  
 (251) 460-4848

Mobile Container Terminal

DESIGNED BY RAA	<b>CONTAINER TERMINAL                  AT CHOCTAW POINT                  PAVEMENT, UTILITIES, AND GATE STRUCTURES</b>	SCALE 1"=50'	REVISION
DRAWN BY RBB		DATE 10/10/07	4
CHECKED BY RAA		DRAWING NO.	
PROJECT ENGR RAA		C-502	

MATCHLINE - SEE SHEET C-505



KEY PLAN

1"=500' 0 500 1000 FT.

**LEGEND**

- INDEX CONTOUR
- INTERMEDIATE CONTOUR
- SPECIAL CONTOUR
- RCP/HDPE
- INLET
- JUNCTION BOX
- CONTOUR ELEVATION
- EXISTING MANUAL RECOVERY WELL
- WATER QUALITY UNIT
- TOP OF CASTING
- EXISTING MONITORING WELL
- HIGH MAST LIGHT POLE
- FIRE HYDRANT

SE = SURFACE ELEVATION  
 TWL = TOP OF WATER LINE  
 BWL = BOTTOM OF WATER LINE  
 TDB = TOP OF DUCT BANK  
 BDB = BOTTOM OF DUCT BANK  
 TSD = TOP OF STORM DRAIN  
 BSD = BOTTOM OF STORM DRAIN  
 TSW = TOP OF GRAITY SEWER  
 BSW = BOTTOM OF GRAITY SEWER  
 TC = TOP OF CASTING  
 IMH = INVERT OF MANHOLE

NOTE:  
 CONTRACTOR DID NOT PROVIDE DATA FOR THE UTILITY CROSSINGS.

1"=50' 0 50 100 FT.

**AS-BUILT**  
 JUNE 20, 2009

GRAPHIC SCALES  
 CHECK BEFORE USE

IF SHEET IS LESS THAN 24" X 36"  
 IT IS A REDUCED PRINT. SCALE  
 ACCORDINGLY

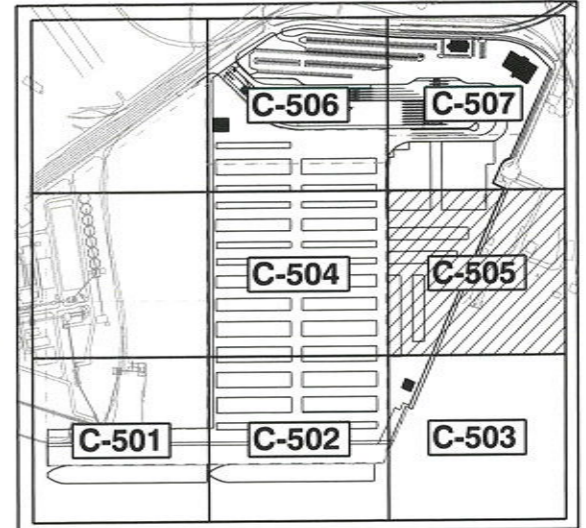
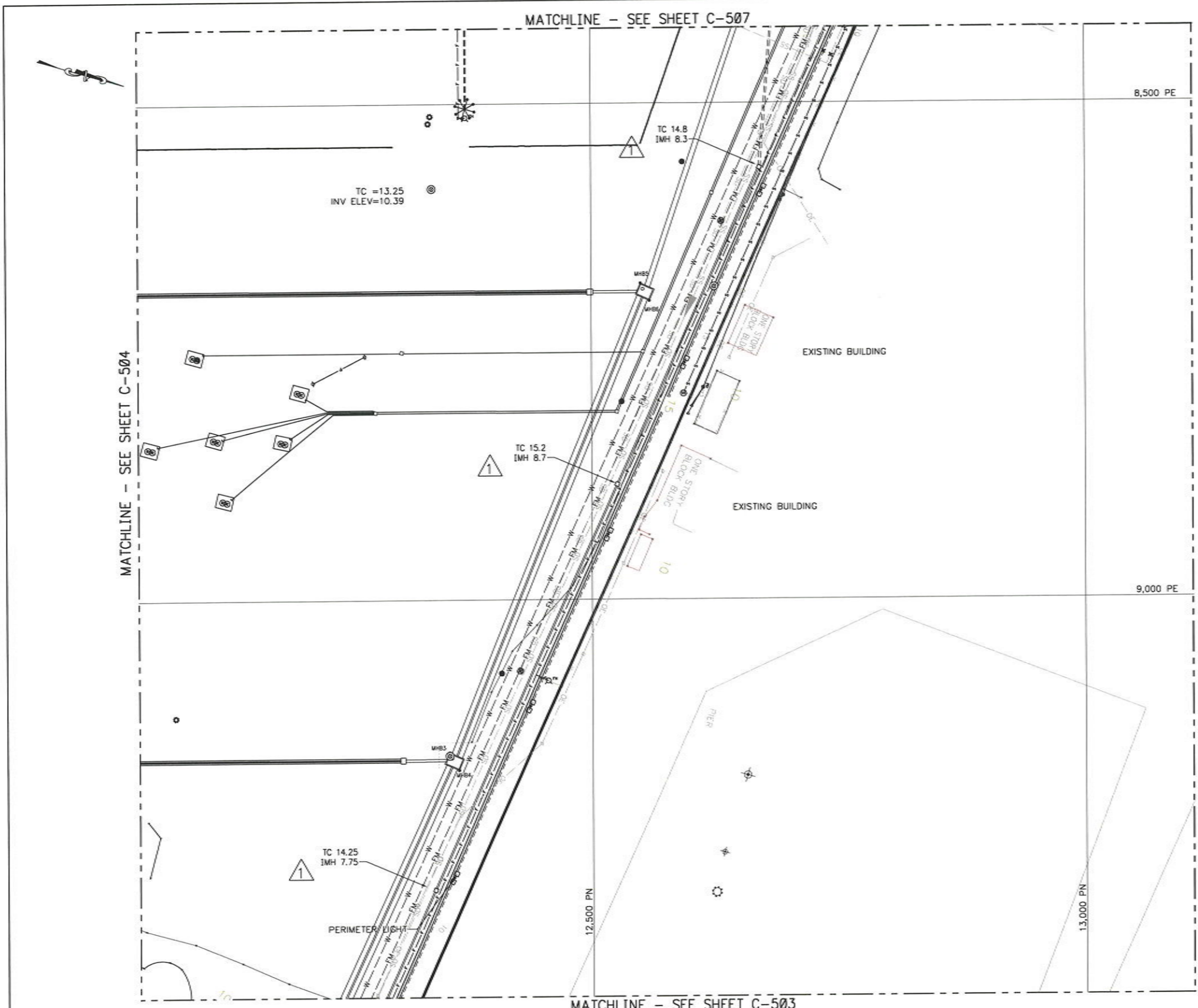
NO.	DESCRIPTION	DATE	BY	NO.	DESCRIPTION	DATE	BY
1	ADDED MANHOLE INVERT	1/18/08	RAA				
2	ADDED "CURRENT CONST" BLOCK	3/18/08	RAA				
3	AS-BUILT	6/28/09	RAA				



DESIGNED BY  
RAA  
 DRAWN BY  
RBB  
 CHECKED BY  
RAA  
 PROJECT ENCR  
RAA

CONTAINER TERMINAL  
 AT CHOCTAW POINT  
 PAVEMENT, UTILITIES, AND GATE STRUCTURES  
 PARTIAL UTILITY INTERSECTION PLAN  
 SHEET 3 OF 7

SCALE  
1"=50'  
 DATE  
10/10/07  
 REVISION  
3  
 DRAWING NO.  
C-503



**KEY PLAN**  
1"=500' 0 500 1000 FT.

**LEGEND**

- INDEX CONTOUR
- INTERMEDIATE CONTOUR
- SPECIAL CONTOUR
- REPETITIVE
- INVERT
- JUNCTION BOX
- COMPRESSOR/RECOVERY
- EXISTING MANUAL RECOVERY WELL
- WATER QUALITY UNIT
- TOP OF CASTING
- EXISTING MONITORING WELL
- HIGH MAST LIGHT POLE
- FIRE HYDRANT
- AUTOMATIC RECOVERY WELL

SE = SURFACE ELEVATION  
 TWL = TOP OF WATER LINE  
 BWL = BOTTOM OF WATER LINE  
 TDB = TOP OF DUCT BANK  
 BDB = BOTTOM OF DUCT BANK  
 TSD = TOP OF STORM DRAIN  
 BSD = BOTTOM OF STORM DRAIN  
 TSW = TOP OF GRAVITY SEWER  
 BSW = BOTTOM OF GRAVITY SEWER  
 TC = TOP OF CASTING  
 IMH = INVERT OF MANHOLE

NOTE:  
 CONTRACTOR DID NOT PROVIDE DATA FOR THE UTILITY CROSSINGS.

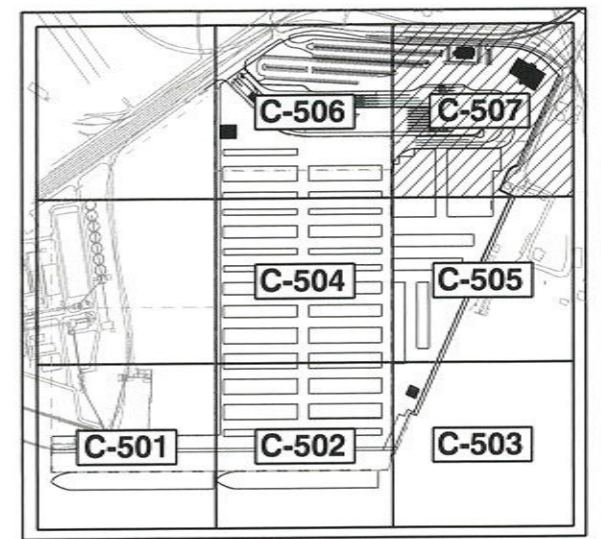
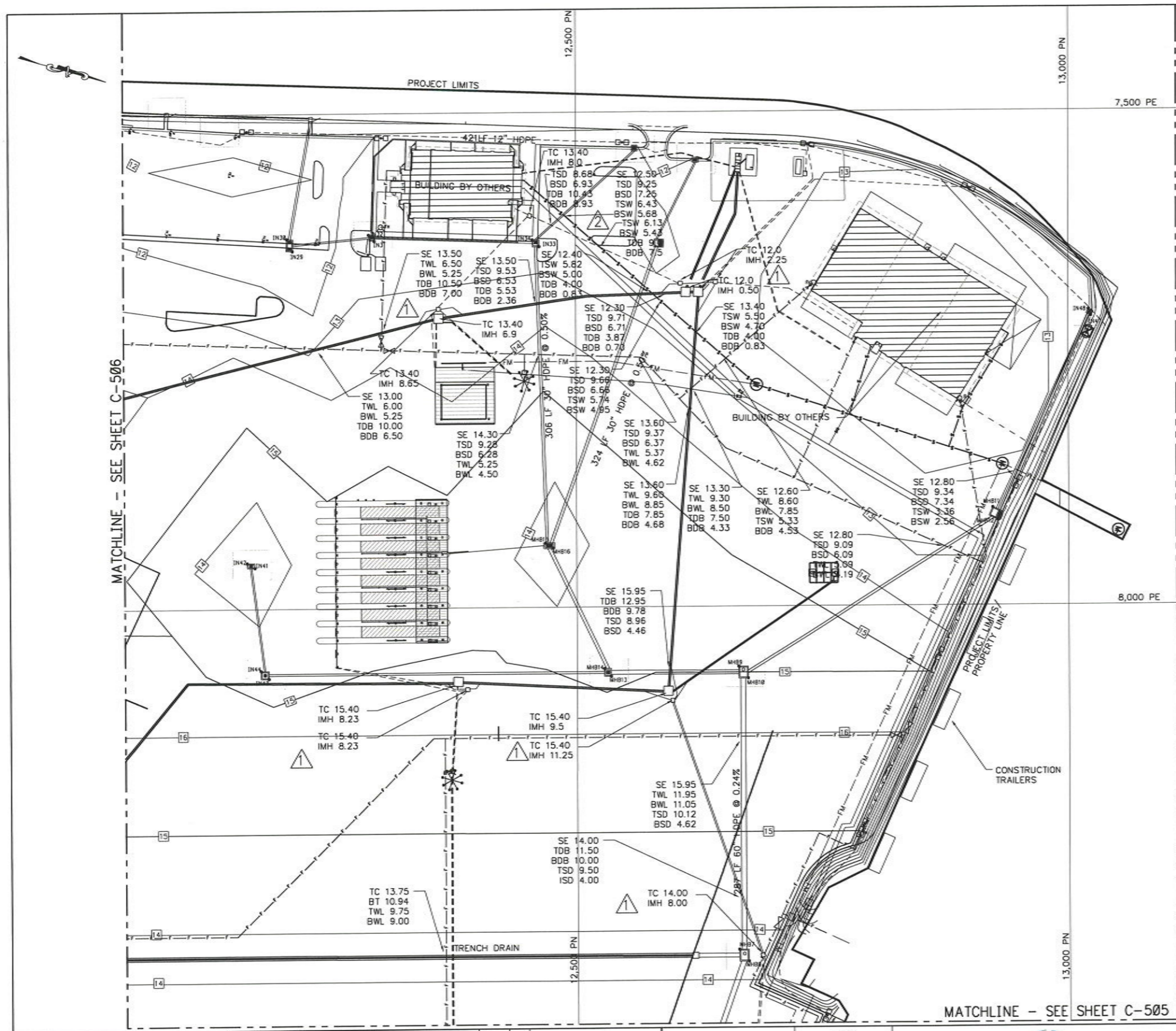
1"=50' 0 50 100 FT.

**AS-BUILT**  
 JUNE 20, 2009

GRAPHIC SCALES  
 CHECK BEFORE USE  
 IF SHEET IS LESS THAN 24" X 36"  
 IT IS A REDUCED PRINT. SCALE  
 ACCORDINGLY

NO.	DESCRIPTION	DATE	BY	NO.	DESCRIPTION	DATE	BY
1	ADDED MANHOLE INVERT	1/18/08	RAA				
2	ADDED "CURRENT CONST" BLOCK	3/18/08	RAA				
3	AS-BUILT	5/20/09	RAA				

DESIGNED BY RAA	<b>CONTAINER TERMINAL          AT CHOCTAW POINT          PAVEMENT, UTILITIES, AND GATE STRUCTURES</b>	SCALE 1"=50'	REVISION 3
DRAWN BY RBB		DATE 10/10/07	
CHECKED BY RAA		DRAWING NO. C-505	
PROJECT ENGR RAA			



**KEY PLAN**  
1"=500' 0 500 1000 FT.

**LEGEND**

- INDEX CONTOUR
- INTERMEDIATE CONTOUR
- SPECIAL CONTOUR
- RCP/HDPE
- INLET
- JUNCTION BOX
- CONTOUR ELEVATION
- EXISTING MANUAL RECOVERY WELL
- WATER QUALITY UNIT
- TOP OF CASTING
- EXISTING MONITORING WELL
- HIGH MAST LIGHT POLE
- FIRE HYDRANT

SE = SURFACE ELEVATION  
 TWL = TOP OF WATER LINE  
 BWL = BOTTOM OF WATER LINE  
 TDB = TOP OF DUCT BANK  
 BDB = BOTTOM OF DUCT BANK  
 TSD = TOP OF STORM DRAIN  
 BSD = BOTTOM OF STORM DRAIN  
 TSW = TOP OF GRAVITY SEWER  
 BSW = BOTTOM OF GRAVITY SEWER  
 TC = TOP OF CASTING  
 IMH = INVERT OF MANHOLE

NOTE:  
 CONTRACTOR DID NOT PROVIDE DATA FOR THE UTILITY CROSSINGS.

1"=50' 0 50 100 FT.

**AS-BUILT**  
 JUNE 20, 2009

GRAPHIC SCALES  
 CHECK BEFORE USE  
 IF SHEET IS LESS THAN 24" X 36"  
 IT IS A REDUCED PRINT. SCALE  
 ACCORDINGLY

NO.	DESCRIPTION	DATE	BY	NO.	DESCRIPTION	DATE	BY
1	ADDED MANHOLE INVERTS - REVISED DUCT BANK ELEV	1/18/08	RAA				
2	ADDED MANHOLE INVERTS - REVISED DUCT BANK ELEV	2/28/08	RAA				
3	ADDED "CURRENT CONST" BLOCK	3/18/08	RAA				
4	AS-BUILT	6/20/09	RAA				

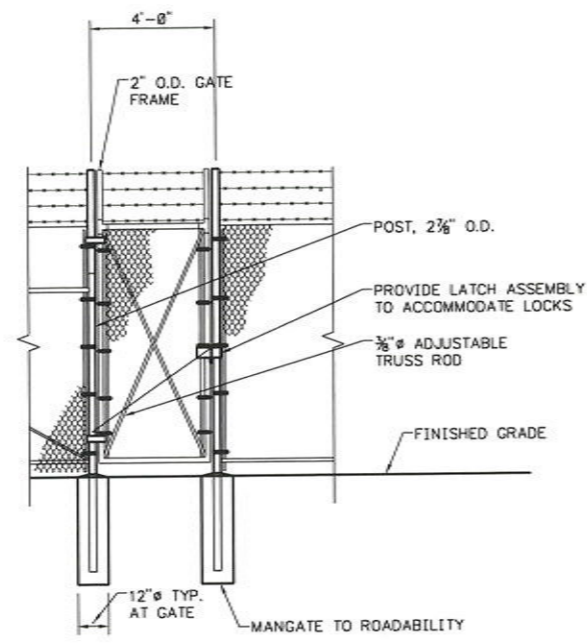


DESIGNED BY  
RAA  
 DRAWN BY  
RBB  
 CHECKED BY  
RAA  
 PROJECT ENGR  
RAA

CONTAINER TERMINAL  
 AT CHOCTAW POINT  
 PAVEMENT, UTILITIES, AND GATE STRUCTURES  
 PARTIAL UTILITY INTERSECTION PLAN  
 SHEET 7 OF 7

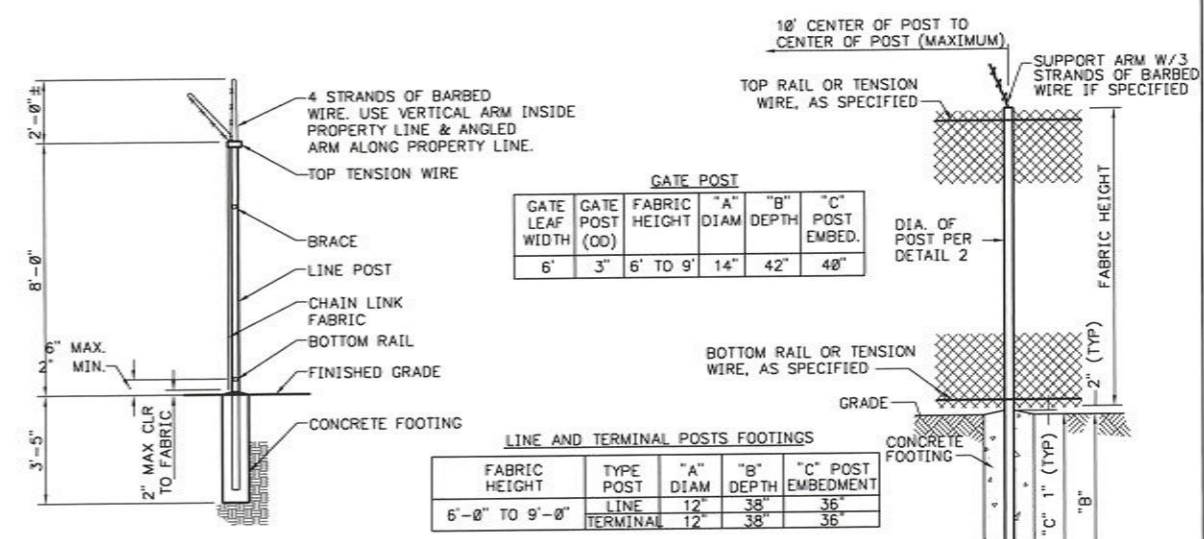
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 DATE  
10/10/07  
 REVISION  
4  
 DRAWING NO.  
C-507





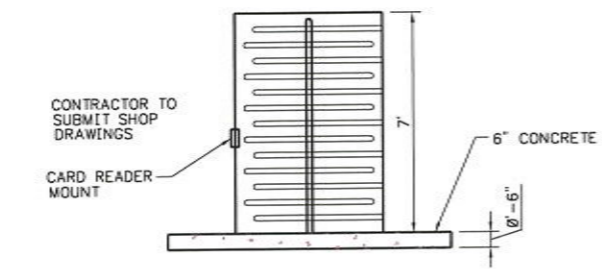
**1** CHAIN LINK FENCE & SWING MAN GATE DETAIL  
SCALE 1/2" = 1'-0"

- C-402
- C-403
- C-404
- C-405
- C-406
- C-407



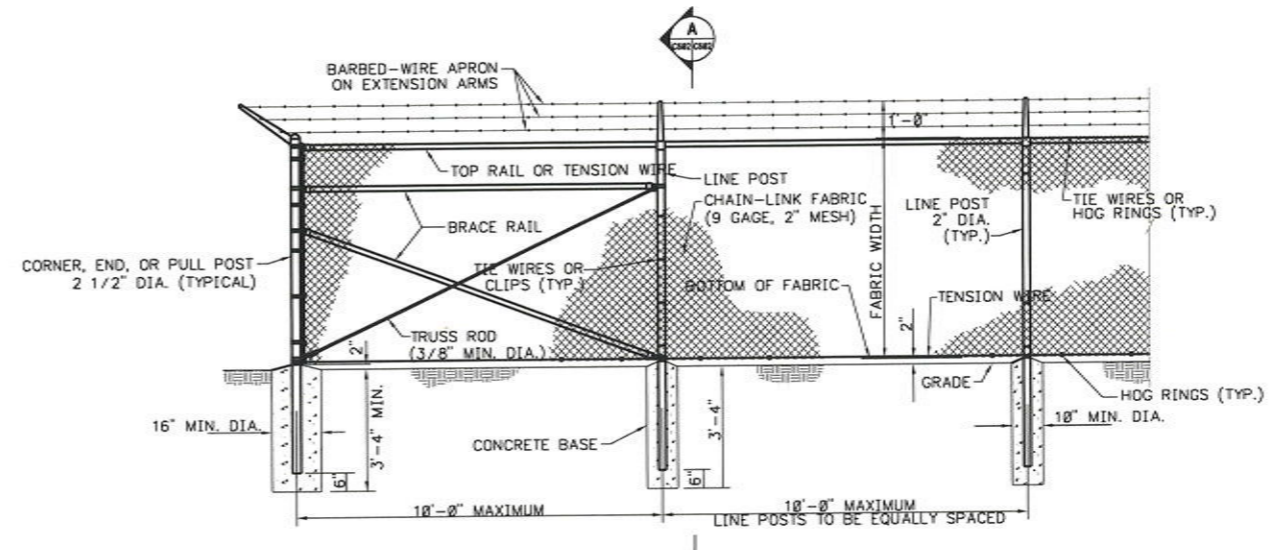
**A** CHAIN LINK FENCE SECTION  
SCALE 1/2" = 1'-0"

**A** CHAIN LINK FENCE FOUNDATION  
SCALE 1/2" = 1'-0"



**3** TURNSTILE MAN-GATE DETAIL  
SCALE 1/2" = 1'-0"

- C-402



**2** CHAIN LINK SECURITY FENCE DETAIL  
SCALE 1/2" = 1'-0"

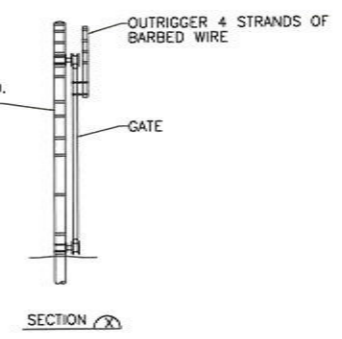
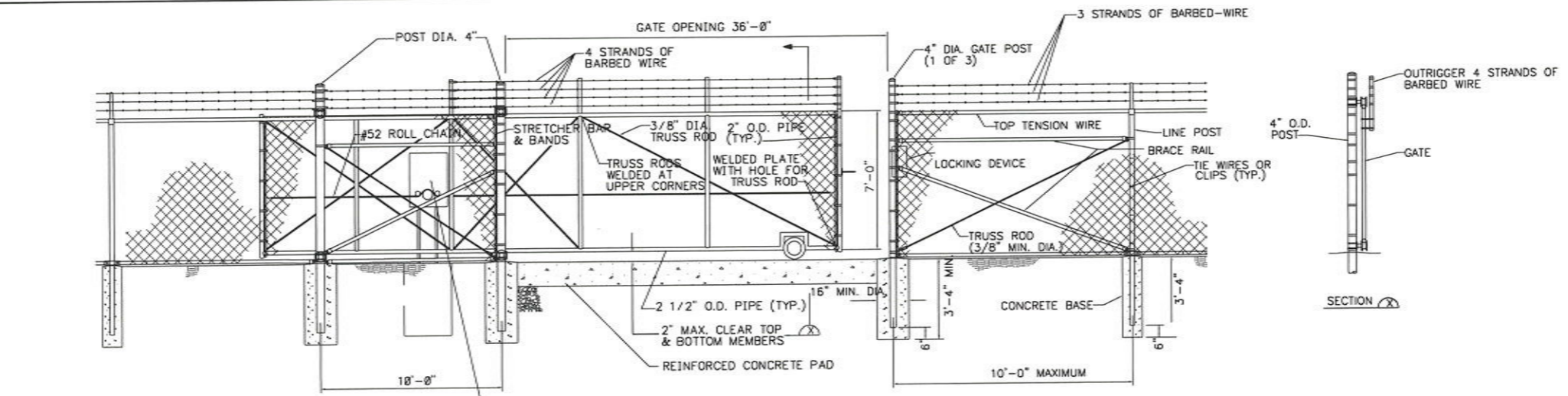
- C-402
- C-403
- C-404
- C-405
- C-406
- C-407



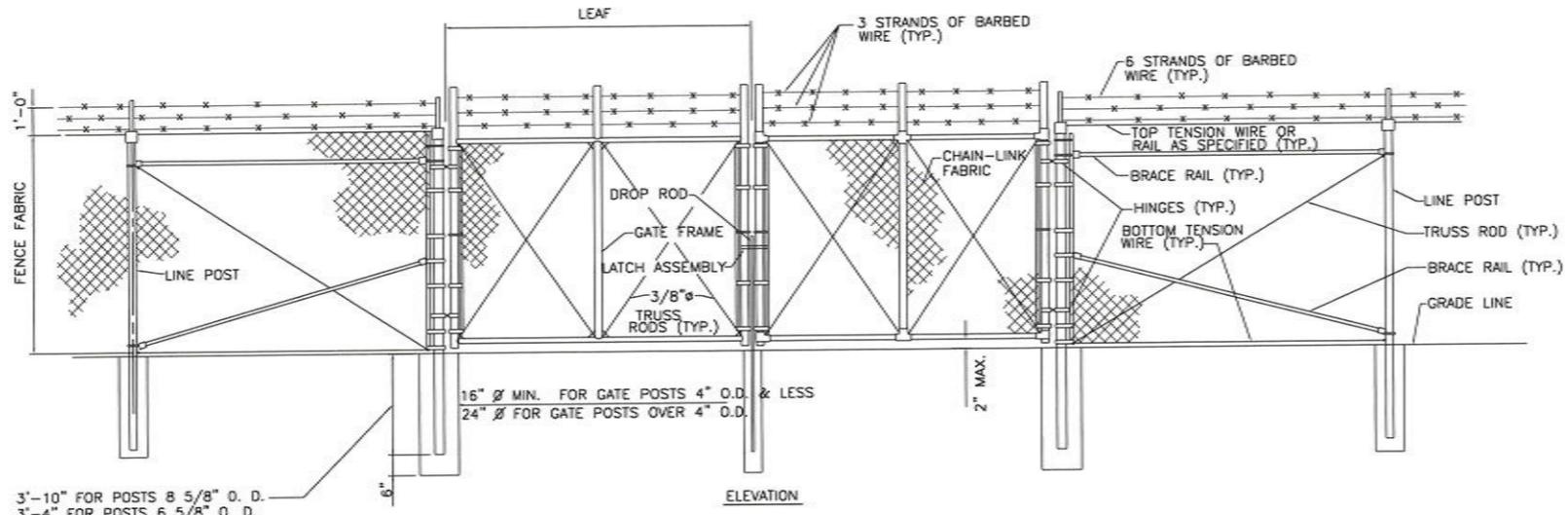
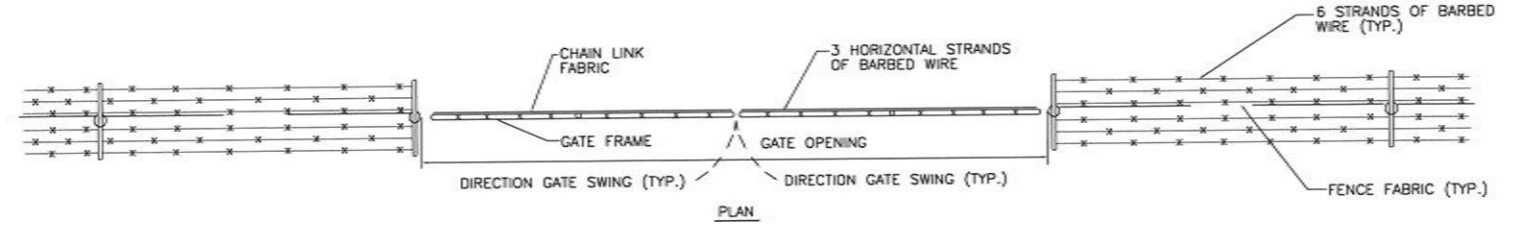
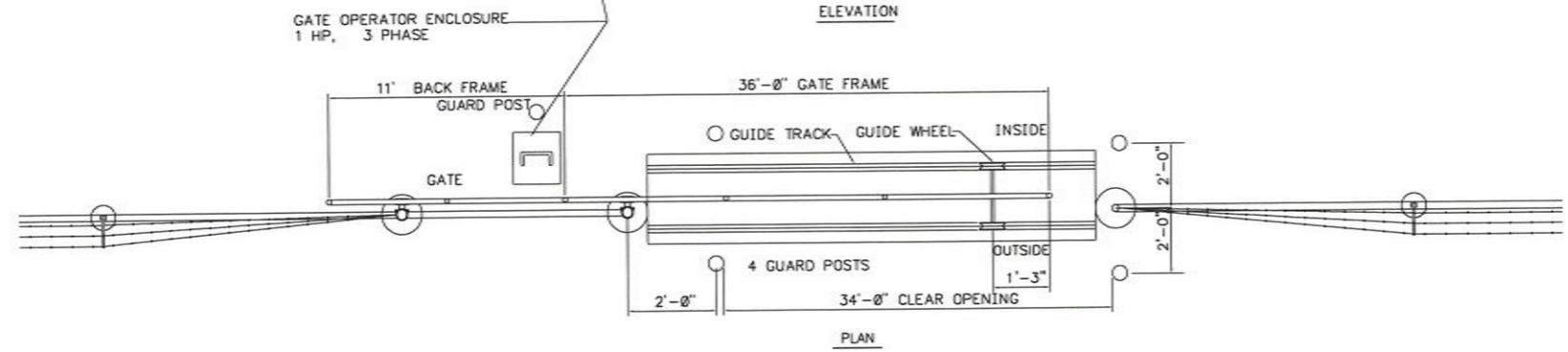
**AS-BUILT**  
JUNE 20, 2009  
GRAPHIC SCALES  
CHECK BEFORE USE  
IF SHEET IS LESS THAN 24" X 36"  
IT IS A REDUCED PRINT. SCALE  
ACCORDINGLY

NO.	DESCRIPTION	DATE	BY	NO.	DESCRIPTION	DATE	BY
1	ADDED "CURRENT CONST" BLOCK	3/18/08	RAA				
2	AS-BUILT	6/28/09	RAA				

DESIGNED BY BA	CONTAINER TERMINAL AT CHOCTAW POINT PAVEMENT, UTILITIES, AND GATE STRUCTURES	SCALE 1/2" = 1'-0"	REVISION <b>2</b>	
DRAWN BY JTB		DATE 10/10/07		
CHECKED BY		MISCELLANEOUS SITE DETAILS FENCE DETAILS	DRAWING NO. <b>C-602</b>	
PROJECT ENGR				



**3 SLIDING GATE DETAIL**  
SCALE 1/2" = 1'-0"



**4 DOUBLE SWING GATE**  
SCALE 1/2" = 1'-0"



**AS-BUILT**  
JUNE 20, 2009

GRAPHIC SCALES  
CHECK BEFORE USE  
IF SHEET IS LESS THAN 24" X 36"  
IT IS A REDUCED PRINT SCALE  
ACCORDINGLY

NO.	DESCRIPTION	DATE	BY	NO.	DESCRIPTION	DATE	BY
1	ADDED "CURRENT CONST" BLOCK	3/18/08	RAA				
2	AS-BUILT	6/28/09	RAA				



DESIGNED BY  
BA  
DRAWN BY  
LAH  
CHECKED BY  
PROJECT ENGR

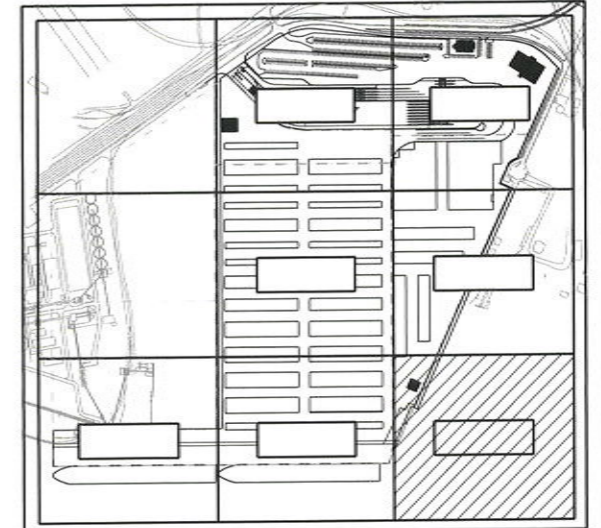
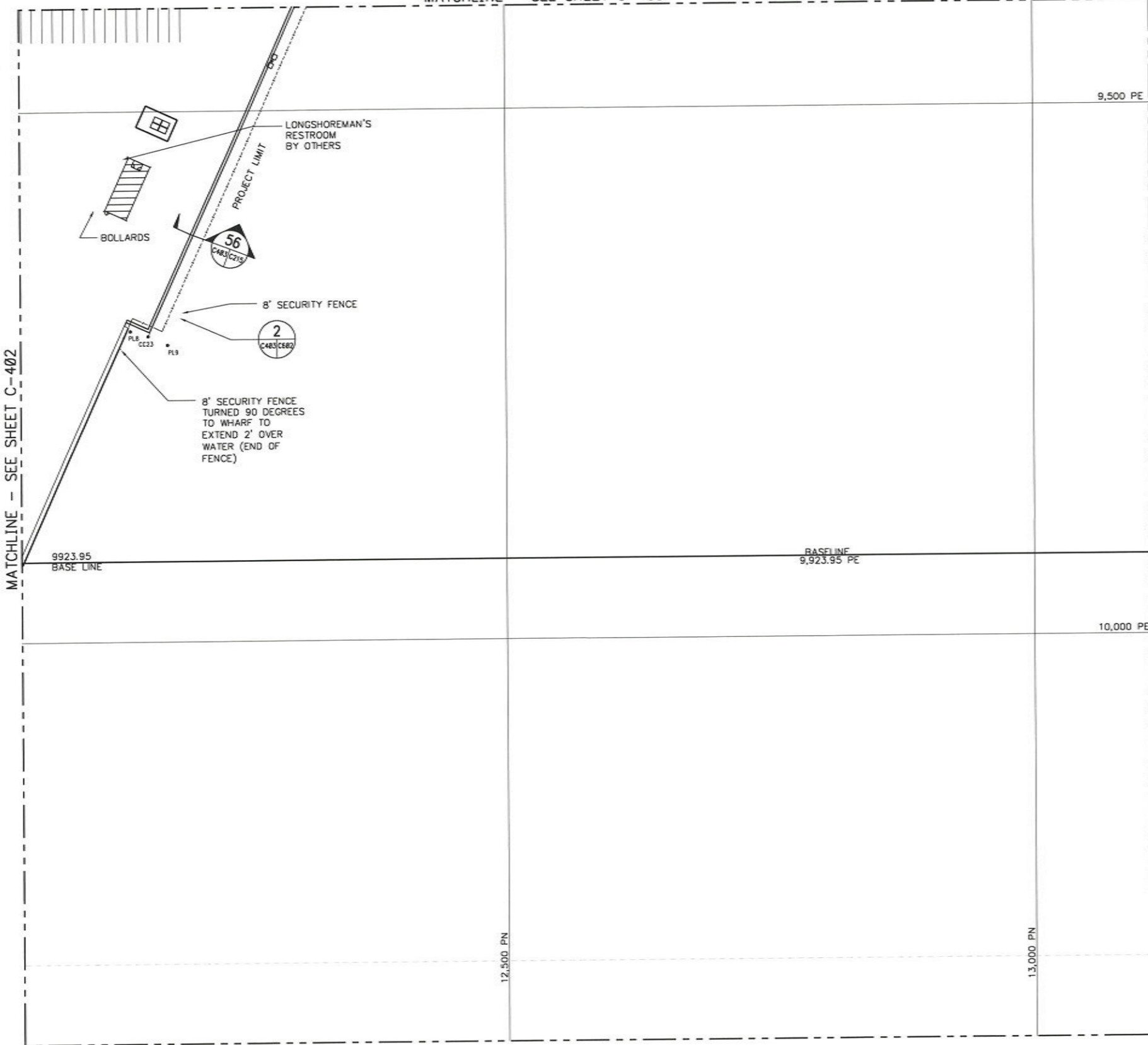
CONTAINER TERMINAL  
AT CHOCTAW POINT  
PAVEMENT, UTILITIES, AND GATE STRUCTURES  
MISCELLANEOUS SITE DETAILS  
FENCE DETAILS

SCALE  
1/2" = 1'-0"  
DATE  
10/10/07  
DRAWING NO.  
C-605

REVISION  
2

CC823

MATCHLINE - SEE SHEET C-405



KEY PLAN

1"=500' 0 500 1000 FT.

NODE ID	PLANT EAST	PLANT NORTH
CC823	9711.767326	12161.699991

NODE ID	PLANT EAST	PLANT NORTH
PL8	9786.96	12145.83
PL9	9728.83	12179.91

**LEGEND**

- HIGHMAST LIGHT POLE
- K-RAIL
- EXISTING MONITORING WELL
- STACK MARKING
- CURB STOP
- CONTAINER ROW SIGN
- \*CC823 NODE

1"=50' 0 50 100 FT.

GRAPHIC SCALES  
CHECK BEFORE USE

IF SHEET IS LESS THAN 24" X 36"  
IT IS A REDUCED PRINT. SCALE  
ACCORDINGLY

**AS-BUILT**  
JUNE 20, 2009

NO.	DESCRIPTION	DATE	BY	NO.	DESCRIPTION	DATE	BY
1	ADDED SHEET C-703	8-5-08	RAA				
2	AS-BUILT	6/20/09	RAA				

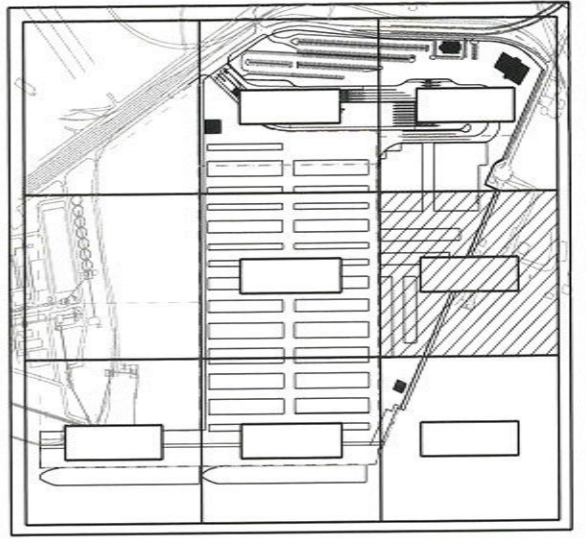
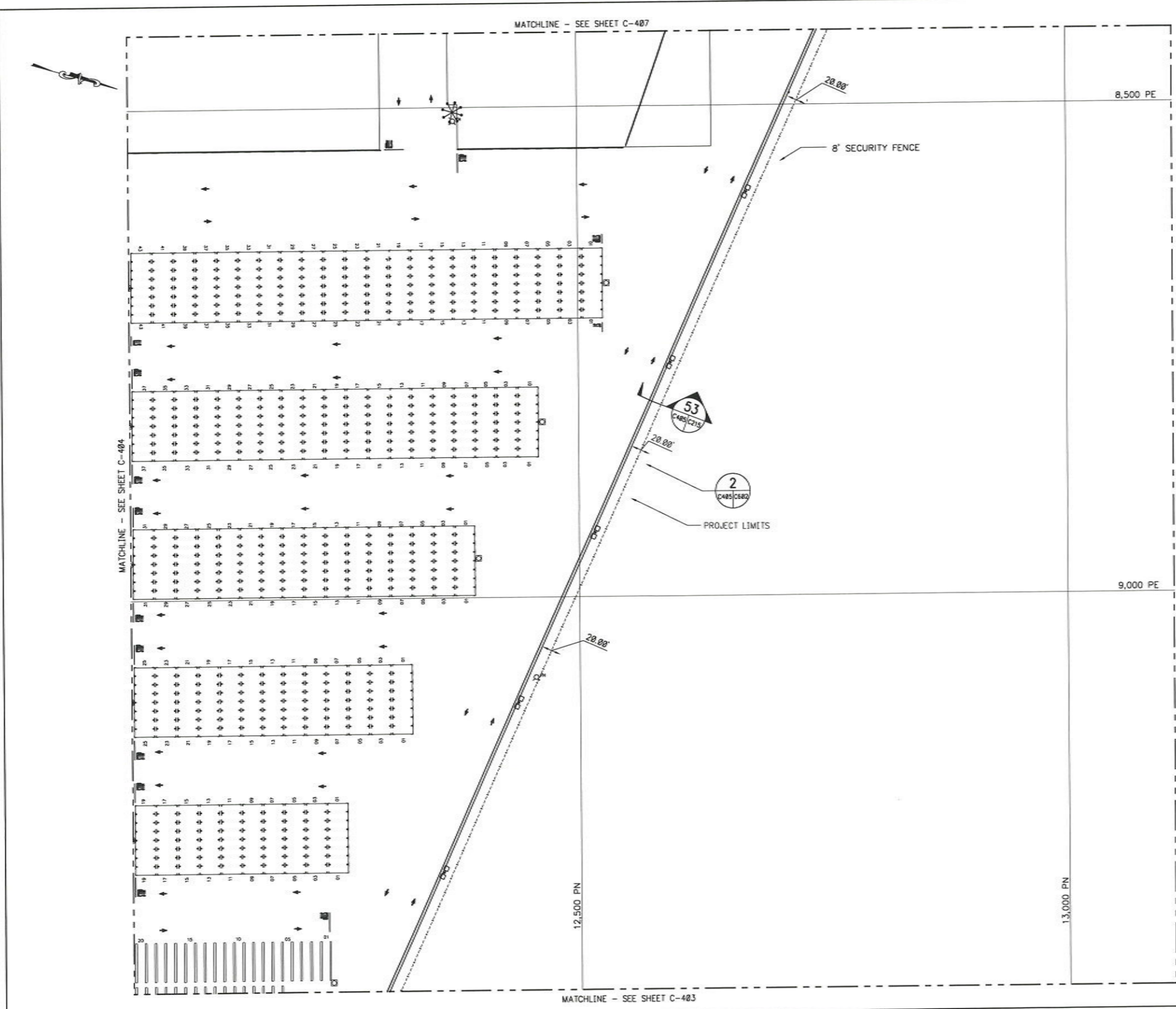


DESIGNED BY RAA
DRAWN BY RBB
CHECKED BY RAA
PROJECT ENGR RAA

CONTAINER TERMINAL  
AT CHOCTAW POINT  
PAVEMENT, UTILITIES, AND GATE STRUCTURES

PARTIAL FENCE PLAN  
SHEET 3 OF 7

SCALE 1"=50'-0"	REVISION 2
DATE 10/10/07	DRAWING NO. C-703



**KEY PLAN**  
1"=500' 0 500 1000 FT.

**LEGEND**

- HIGHMAST LIGHT POLE
- K-RAIL
- EXISTING MONITORING WELL
- STACK MARKING
- CURB STOP
- CONTAINER ROW SIGN

1"=50' 0 50 100 FT.

**AS-BUILT**  
JUNE 20, 2009

GRAPHIC SCALES  
CHECK BEFORE USE  
IF SHEET IS LESS THAN 24" X 36"  
IT IS A REDUCED PRINT. SCALE  
ACCORDINGLY

NO.	DESCRIPTION	DATE	BY	NO.	DESCRIPTION	DATE	BY
1	ADDED SHEET C-705	8-5-08	RAA				
2	AS-BUILT	5/20/09	RAA				

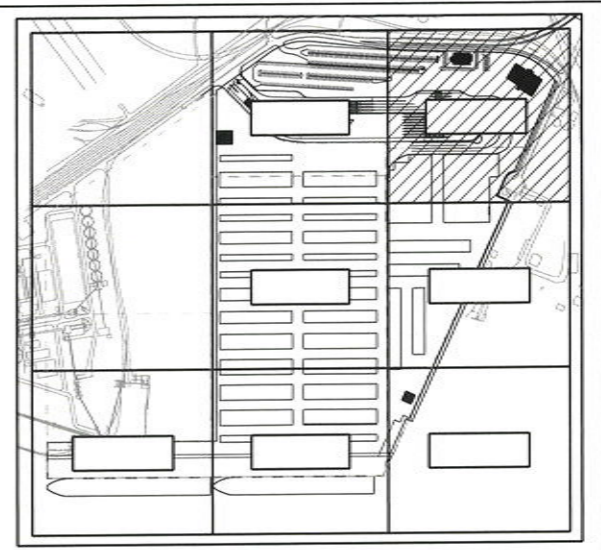
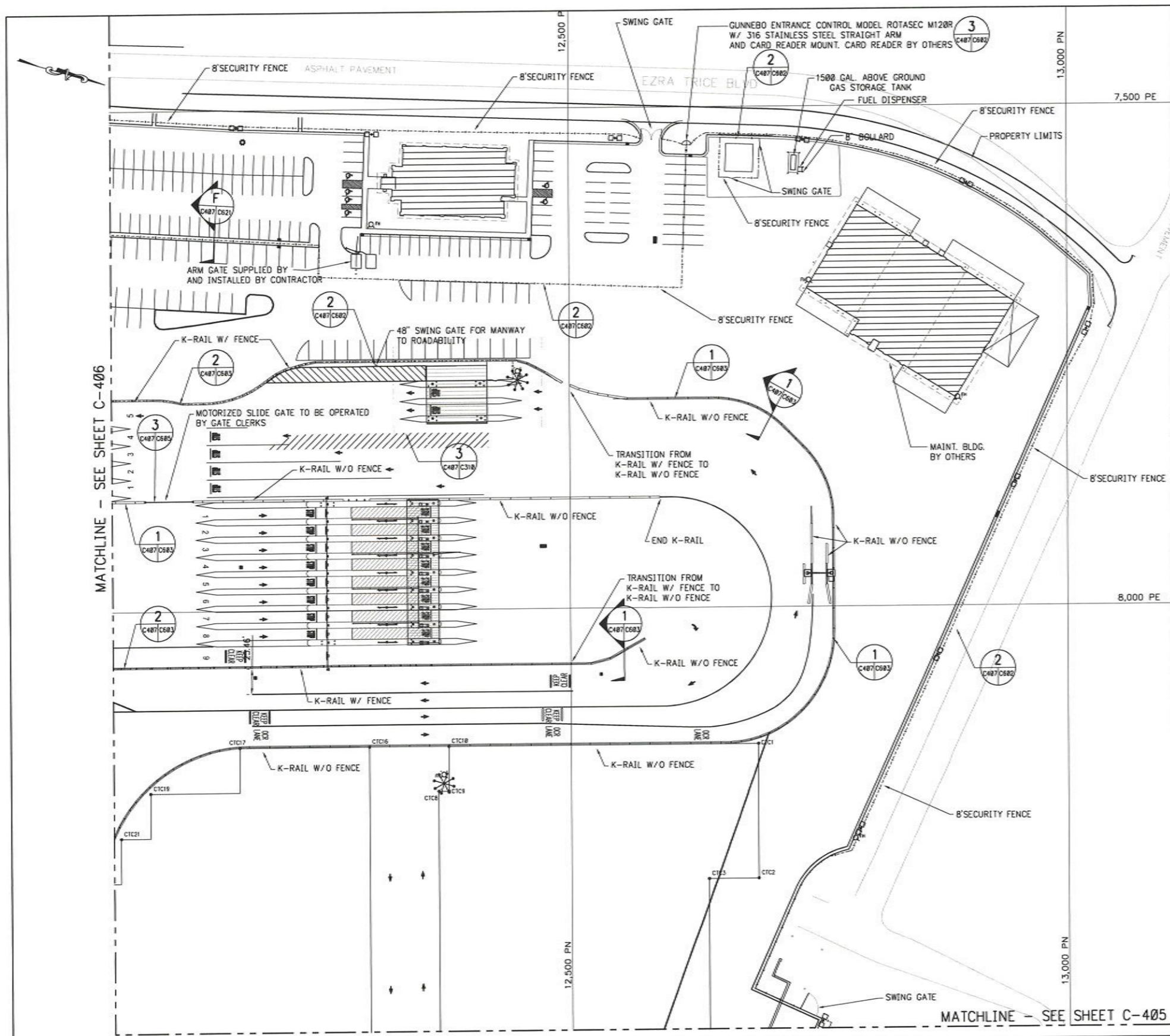


DESIGNED BY RAA
DRAWN BY RBB
CHECKED BY RAA
PROJECT ENGR RAA

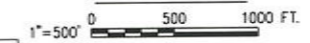
CONTAINER TERMINAL  
AT CHOCTAW POINT  
PAVEMENT, UTILITIES, AND GATE STRUCTURES

PARTIAL FENCE PLAN  
SHEET 5 OF 7

SCALE 1"=50'-0"	REVISION 2
DATE 10/10/07	DRAWING NO. C-705



**KEY PLAN**



NODE ID	PLANT EAST	PLANT NORTH
CC001	7527.946712	12638.67157
CC002	7564.80258	12543.21202
CC003	7564.666315	12538.97682
CC004	7625.77071	12541.08875
CC005	7625.637685	12536.87898
CC006	7533.008234	12485.14237
CC007	7581.485943	12483.40791
CC008	7589.480827	12483.12186
CC009	7627.202955	12461.76062
CC010	7629.907454	12462.16407
CC020	7701.783202	13025.03786
CC021	8382.506761	12683.15103
CC022	8413.39122	12751.13973
RP002	7562.933862	12560.81977
RP003	7543.006647	12633.12955
RP004	7537.071856	12613.91023
RP005	7542.547819	12598.62649
RP006	7531.526212	12566.97323
RP007	7534.916392	12553.75131
RP008	7565.732614	12554.40362
RP009	7564.738661	12527.89943
RP010	7561.540486	12521.67278
RP011	7625.699225	12552.18999
RP012	7628.89748	12558.41664
RP013	7624.785272	12525.6858

**LEGEND**

- HIGHMAST LIGHT POLE
- K-RAIL
- EXISTING MONITORING WELL
- STACK MARKING
- CURB STOP
- CONTAINER ROW SIGN
- NODE

NODE ID	PLANT EAST	PLANT NORTH
RP014	7627.584824	12519.26965
RP015	7468.862527	12537.38029
RP016	7646.838565	12582.46472
RP017	7435.883343	12585.39232
RP018	7647.088853	12464.52328
RP019	7635.073224	12466.48223
RP020	7628.551064	12275.51385
RP021	7628.85274	12289.89677
RP022	7648.358348	12287.84824
RP023	7555.836363	12234.60001
RP024	7549.619872	12237.81797
RP025	7575.824285	12233.98504
RP026	7582.249266	12236.68347
RP027	7616.094774	12244.23545
RP028	7621.183254	12241.05624
RP070	8011.191798	12687.48477
RP071	7911.472381	12678.5588
RP072	8313.229138	12791.49984
RP073	8039.765626	12574.74346
RP074	8047.471075	12563.08724
RP075	8042.948435	12557.74442
RP076	8005.262339	12519.65695
RP077	8092.956283	12532.16644
RP078	8057.561837	12183.57659



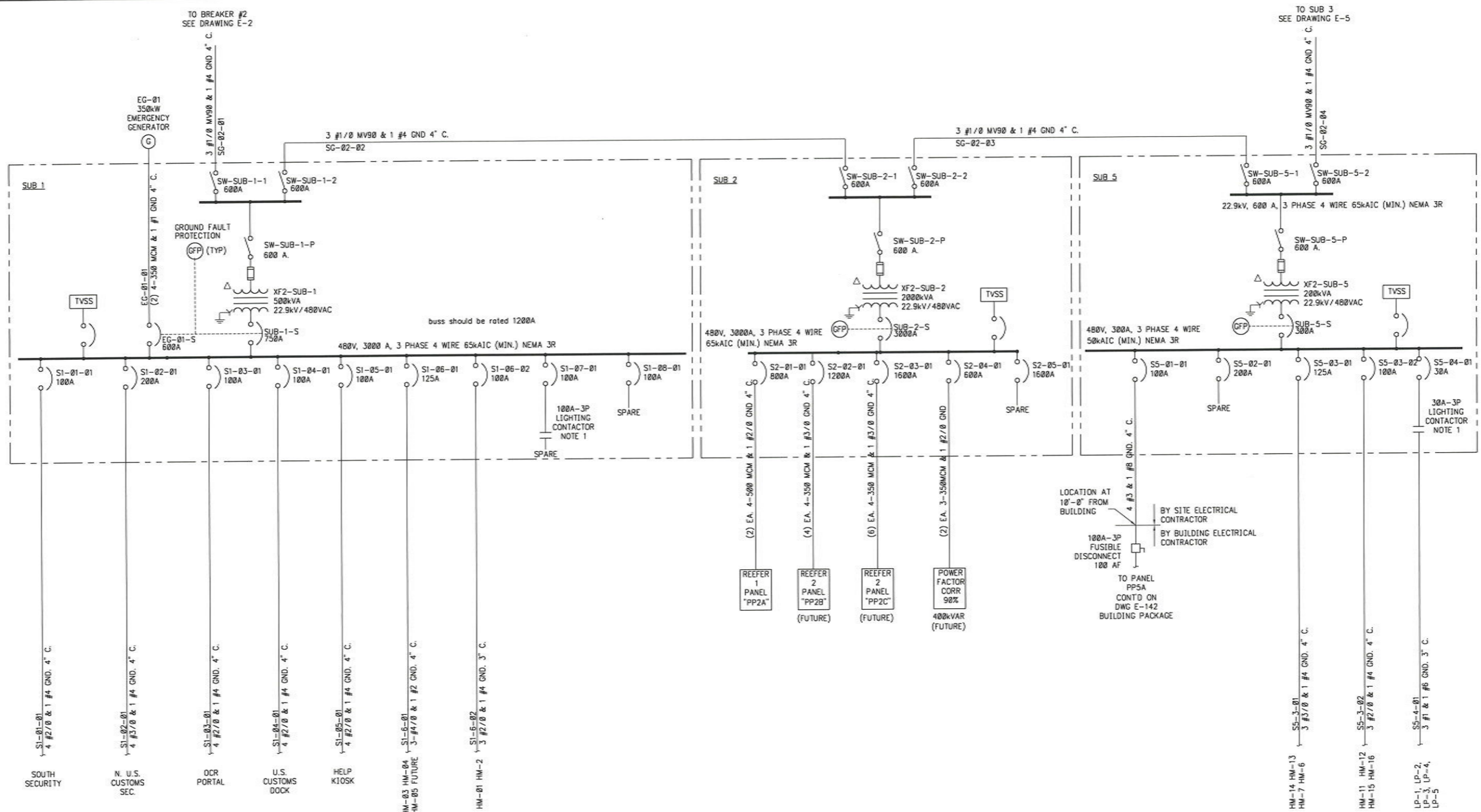
**AS-BUILT**  
JUNE 20, 2009

GRAPHIC SCALES  
CHECK BEFORE USE  
IF SHEET IS LESS THAN 24" X 36"  
IT IS A REDUCED PRINT. SCALE  
ACCORDINGLY.

NO.	DESCRIPTION	DATE	BY	NO.	DESCRIPTION	DATE	BY
1	ADDED SHEET C-707	8/5/08	RAA				
2	AS-BUILT	6/20/09	RAA				

**GSE**  
GULF STATES ENGINEERS  
Creating Solutions  
4110 Wetland Road  
Mobile, AL 36618  
(251) 490-4648

DESIGNED BY RAA	<b>CONTAINER TERMINAL AT CHOCTAW POINT PAVEMENT, UTILITIES, AND GATE STRUCTURES</b>	SCALE 1"=50'-0"	REVISION 2
DRAWN BY LAH		DATE 10/10/07	
CHECKED BY RAA		DRAWING NO. C-707	
PROJECT ENGR RAA			
<b>PARTIAL FENCE PLAN</b>			
<b>SHEET 7 OF 7</b>			



**NOTES:**  
1. PROVIDE P.E. CELL CONTROL OF LIGHTING CONTACTOR

**AS-BUILT**  
JUNE 20, 2009

IF SHEET IS LESS THAN 24" X 36"  
IT IS A REDUCED PRINT. SCALE  
ACCORDINGLY

NO.	DESCRIPTION	DATE	BY	NO.	DESCRIPTION	DATE	BY
1	ADDED "CURRENT CONST" BLOCK	3/10/08	RAA				
2	AS-BUILT	6/20/09	RAA				



DESIGNED BY  
C.S.

DRAWN BY  
J.R.

CHECKED BY  
C.S.

PROJECT ENGR  
C.S.

CONTAINER TERMINAL  
AT CHOCTAW POINT  
PAVEMENT, UTILITIES, AND GATE STRUCTURES

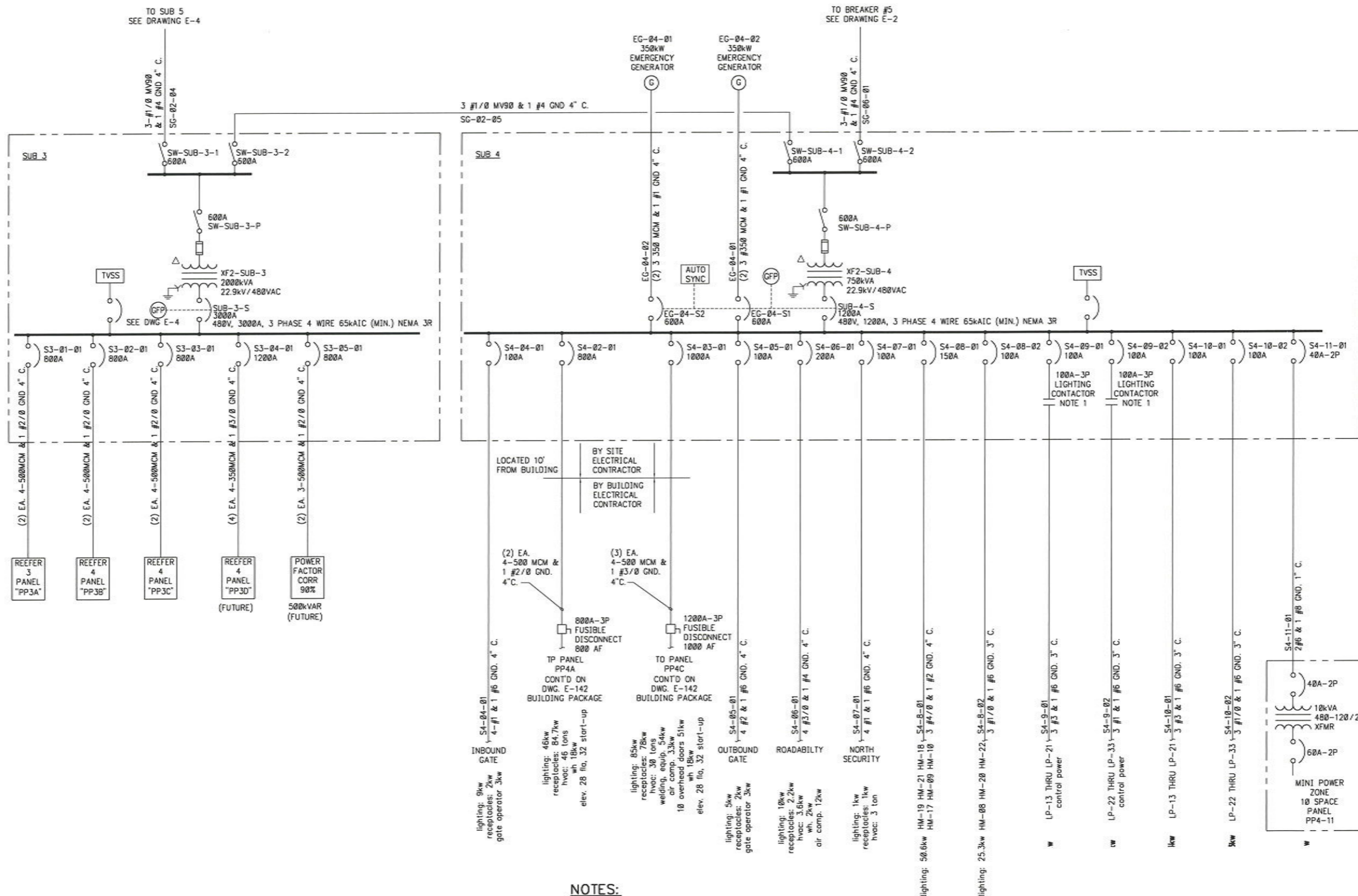
SUBSTATIONS 1, 2 AND 5  
ELECTRICAL ONE-LINE DIAGRAM

SCALE NONE

DATE 10/10/07

DRAWING NO. E-4

REVISION 2



**NOTES:**  
 1. PROVIDE P.E. CELL CONTROL OF LIGHTING CONTACTOR

**AS-BUILT**  
 JUNE 20, 2009

IF SHEET IS LESS THAN 24" X 36"  
 IT IS A REDUCED PRINT. SCALE  
 ACCORDINGLY

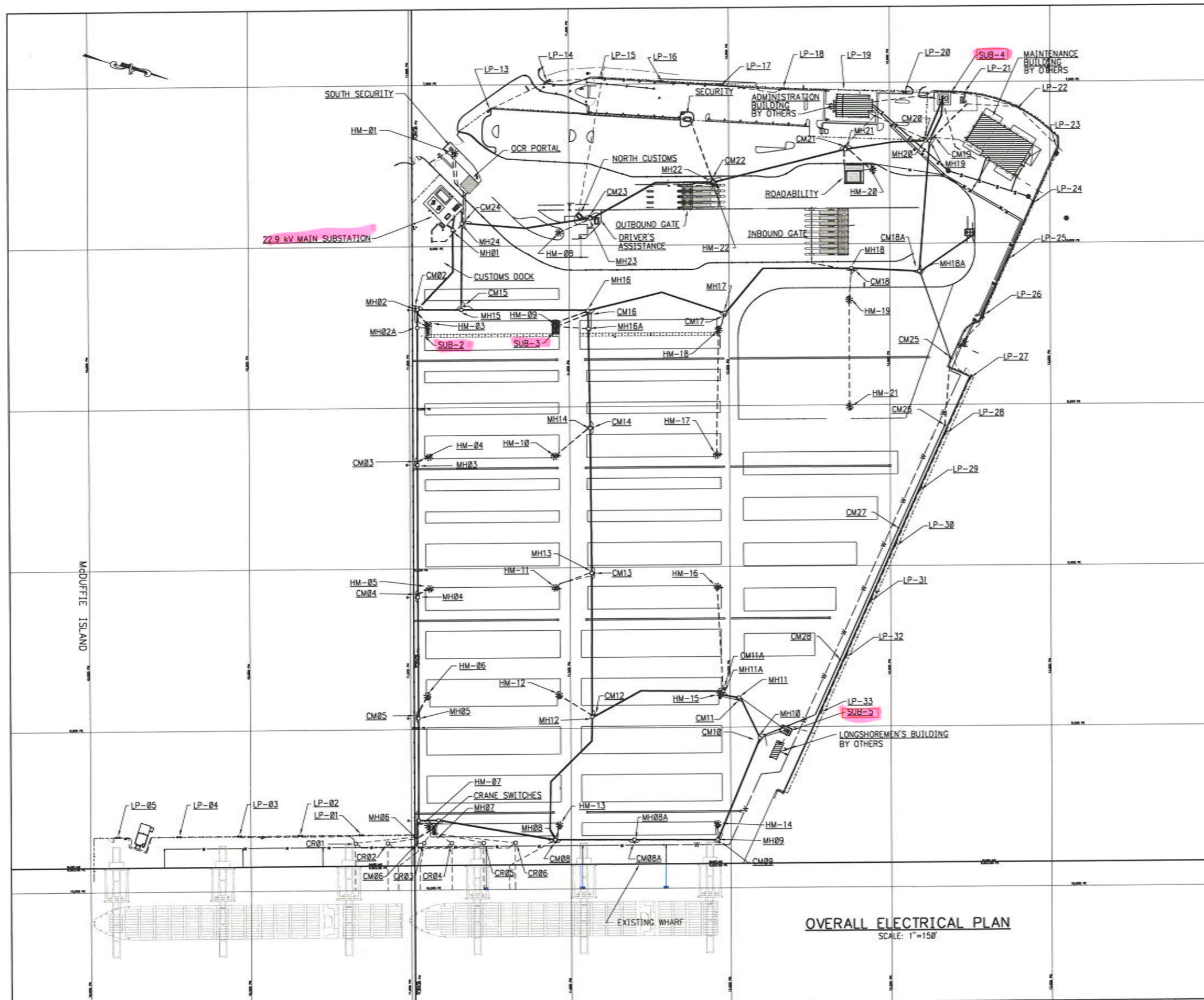
NO.	DESCRIPTION	DATE	BY	NO.	DESCRIPTION	DATE	BY
1	ADDED "CURRENT CONST" BLOCK	3/18/08	RAA				
2	AS-BUILT	6/28/09	RAA				



DESIGNED BY  
C.S.  
 DRAWN BY  
J.R.  
 CHECKED BY  
C.S.  
 PROJECT ENGR  
C.S.

CONTAINER TERMINAL  
 AT CHOCTAW POINT  
 PAVEMENT, UTILITIES, AND GATE STRUCTURES  
 SUBSTATIONS 3 AND 4  
 ELECTRICAL ONE-LINE DIAGRAM

SCALE NONE  
 DATE 10/10/07  
 REVISION 2  
 DRAWING NO. E-5



### LEGEND

- ELECTRICAL CONDUIT
- ELECTRICAL/COMMUNICATIONS DUCTBANK
- ELECTRICAL MANHOLE (MHXX)
- COMMUNICATIONS MANHOLE (CMXX)
- REEFER PLUG
- HIGHMAST LIGHTING POLE
- LP - PERIMETER LIGHTS

### MANHOLE DEPTH LEGEND

MANHOLE	TC	1MH
MH1	14.00	6.53
MH2	15.50	7.00
MH2A	14.85	6.00
MH3	13.40	6.00
MH4	13.80	5.49
MH5	15.90	8.73
MH6	13.85	7.27
MH7	13.85	7.27
MH8	13.85	6.68
MH8A	13.85	6.68
MH9	13.85	5.20
MH10	15.0	7.80
MH11	15.65	8.43
MH11A	15.4	6.20
MH12	15.90	8.73
MH13	14.50	4.00
MH14	14.6	4.60
MH15	15.50	8.15
MH16	15.4	6.00
MH16A	14.8	6.00
MH17	15.4	7.96
MH18	15.40	8.23
MH18A	15.40	9.5
MH19	12.0	0.50
MH20	12.0	0.50
MH21	13.40	3.75
MH22	13.20	5.60
MH23	14.00	4.50
MH24	13.50	5.00

NOTE: USE THESE DIMENSIONS FOR DETERMINING MANHOLE DEPTHS, SEE E-26 FOR TYPICAL ELECTRICAL MANHOLE DETAIL COORDINATE WITH C-500 SERIES DRAWINGS.

CONTRACTOR DID NOT PROVIDE ELEVATION FOR ELECTRICAL MANHOLES

**OVERALL ELECTRICAL PLAN**  
SCALE: 1"=150'



**AS-BUILT**  
JUNE 20, 2009

GRAPHIC SCALES  
CHECK BEFORE USE  
IF SHEET IS LESS THAN 24" X 36"  
IT IS A REDUCED PRINT. SCALE  
ACCORDINGLY

NO.	DESCRIPTION	DATE	BY	NO.	DESCRIPTION	DATE	BY
1	ADDED "CURRENT CONST" BLOCK	3/10/08	RAA				
2	AS-BUILT	6/20/09	RAA				



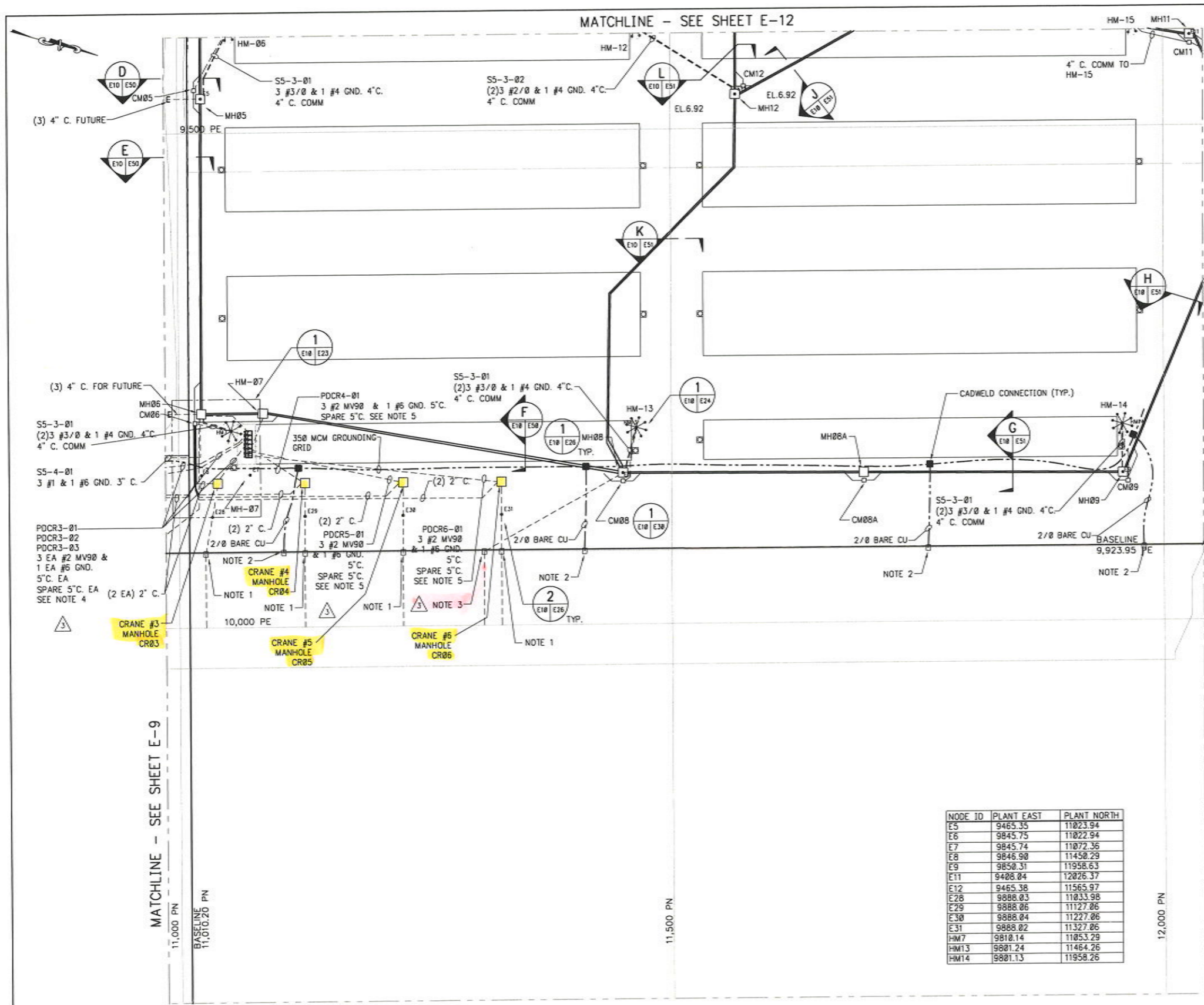
DESIGNED BY  
C.S.  
DRAWN BY  
J.R.  
CHECKED BY  
C.S.  
PROJECT ENGR  
C.S.

CONTAINER TERMINAL  
AT CHOCTAW POINT  
PAVEMENT, UTILITIES, AND GATE STRUCTURES

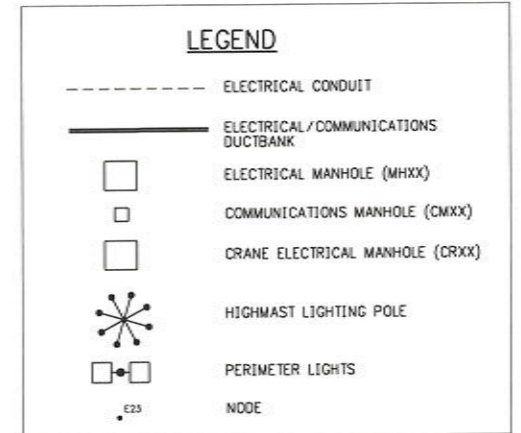
OVERALL  
ELECTRICAL PLAN

SCALE  
1" = 150'  
DATE  
10/10/07  
REVISION  
2  
DRAWING NO.  
E-8





**KEY PLAN**  
1"=500' 0 500 1000 FT.



- NOTES:**
- THIS CONTRACT SHALL INCLUDE EXTENDING EXISTING 5" CONDUIT FROM THIS POINT ON TO THE CRANE MANHOLES AS SHOWN THREADED PVC CONNECTION REQUIRED.
  - THIS CONTRACT SHALL INCLUDE EXTENDING EXISTING 2/0 GROUND WIRE FROM THIS POINT ON TO 350 MCM GROUNDING GRID AS SHOWN.
  - THIS CONTRACT SHALL INCLUDE EXTENDING EXISTING (2) 3" CONDUITS FROM THIS POINT ON TO THE MANHOLE MH-08 AS SHOWN. THESE CONDUITS FOR FUTURE SHORE POWER CONDUCTORS.
  - DUCTBANK TO PDCR1-01 INSTALL 2 #6, & 1 #10 GND IN SPARE CONDUIT FOR CAMERA POWER TO LP-3, CONNECT TO 20A-1P CIRCUIT IN CRANE SWITCH MINI POWER CENTER. INSTALL 2 #10, & 3 #12 & 1 #10 GND IN SPARE CONDUIT TO FEED CRANE MANHOLE PUMP. SEE DRAWING E-62.
  - INSTALL 2 #10, & 2 #12 & 1 #10 GND IN SPARE CONDUIT TO FEED CRANE MANHOLE PUMP. SEE DRAWING E-62.

NODE ID	PLANT EAST	PLANT NORTH
E5	9465.35	11023.94
E6	9845.75	11022.94
E7	9845.74	11072.36
E8	9846.90	11450.29
E9	9850.31	11958.63
E11	9408.04	12026.37
E12	9465.38	11565.97
E28	9888.03	11033.98
E29	9888.06	11227.06
E30	9888.04	11227.06
E31	9888.02	11327.06
HM7	9810.14	11053.29
HM13	9801.24	11464.26
HM14	9801.13	11958.26

**AS-BUILT**  
JUNE 20, 2009

1"=50' 0 50 100 FT.

GRAPHIC SCALES  
CHECK BEFORE USE  
IF SHEET IS LESS THAN 24" X 36"  
IT IS A REDUCED PRINT. SCALE  
ACCORDINGLY

NO.	DESCRIPTION	DATE	BY	NO.	DESCRIPTION	DATE	BY
1	REVISED CONDUITS	12/21/07	RAA				
2	ADDED "CURRENT CONST" BLOCK	3/10/08	RAA				
3	ADDED CAMERA AND PUMP POWER	11/24/08	SS				
4	AS-BUILT	6/20/09	RAA				

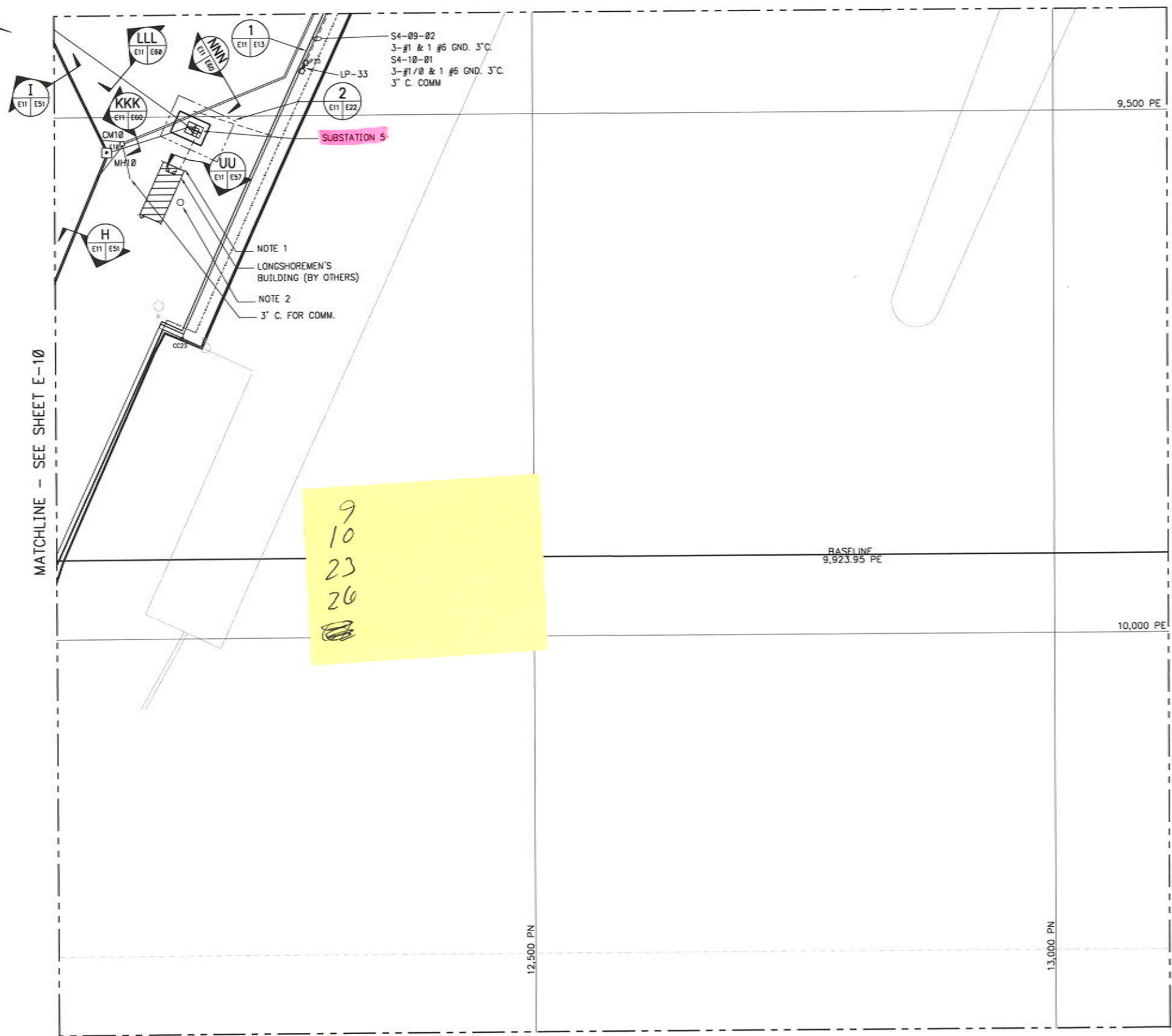


DESIGNED BY  
C.S.  
DRAWN BY  
J.R.  
CHECKED BY  
C.S.  
PROJECT ENGR  
C.S.

CONTAINER TERMINAL  
AT CHOCTAW POINT  
PAVEMENT, UTILITIES, AND GATE STRUCTURES  
  
PARTIAL ELECTRICAL AND  
COMMUNICATIONS PLAN-SHEET 2 OF 7

SCALE  
1" = 50'  
DATE  
10/10/07  
REVISION  
4  
DRAWING NO.  
E-10

MATCHLINE - SEE SHEET E-13



**KEY PLAN**  
1" = 500'  
0 500 1000 FT.

**LEGEND**

- ELECTRICAL CONDUIT
- ===== ELECTRICAL/COMMUNICATIONS DUCTBANK
- ELECTRICAL MANHOLE (MHXX)
- COMMUNICATIONS MANHOLE (CMXX)
- ⋆ HIGHMAST LIGHTING POLE
- PERIMETER LIGHTS
- NODE

**NOTES:**

1. SITE ELECTRICAL CONTRACTOR SHALL RUN POWER AND COMM. CONDUIT UP TO WITH-IN 10'-0" OF BUILDINGS. BUILDING ELECTRICAL CONTRACTOR SHALL PICK UP CONDUITS AT THAT POINT AND CONTINUE THEM TO THE BUILDINGS. YARD CONTRACTOR TO INSTALL ALL CABLES TO BUILDING SERVICE DISCONNECT. BUILDING CONTRACTOR TO MAKE FINAL CONNECTION.

2. E.C. RESPONSIBLE FOR RUNNING POWER TO GRINDER PUMP. INSTALL 4 #12, 3/4" C. TO 480V. PANEL IN LONGSHOREMANS BUILDING. PROVIDE 20A-3P BREAKER FOR PANEL TO POWER THIS CIRCUIT. COORDINATE WITH BUILDING ELECTRICAL CONTRACTOR.

NODE ID	PLANT EAST	PLANT NORTH
E10	9533.62	12090.68
LP35	9453.39	12280.38

1" = 50'  
0 50 100 FT.

**AS-BUILT**  
JUNE 20, 2009

GRAPHIC SCALES  
CHECK BEFORE USE  
IF SHEET IS LESS THAN 24" X 36"  
IT IS A REDUCED PRINT SCALE  
ACCORDINGLY

NO.	DESCRIPTION	DATE	BY	NO.	DESCRIPTION	DATE	BY
1	ADDED "CURRENT CONST" BLOCK	3/10/08	RAA				
2	AS-BUILT	6/20/09	RAA				



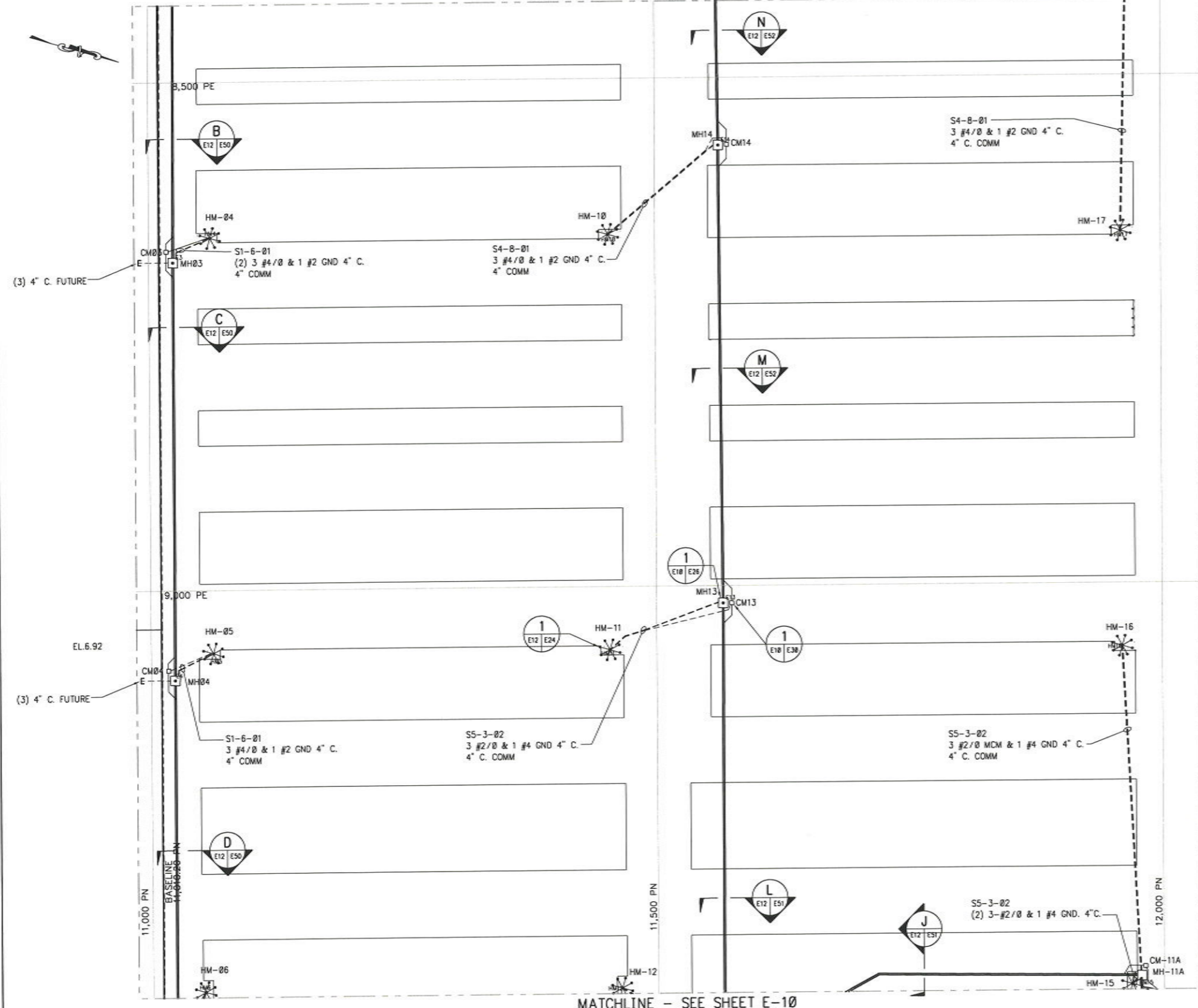
DESIGNED BY  
C.S.  
DRAWN BY  
J.R.  
CHECKED BY  
C.S.  
PROJECT ENGR  
C.S.

CONTAINER TERMINAL  
AT CHOCTAW POINT  
PAVEMENT, UTILITIES, AND GATE STRUCTURES

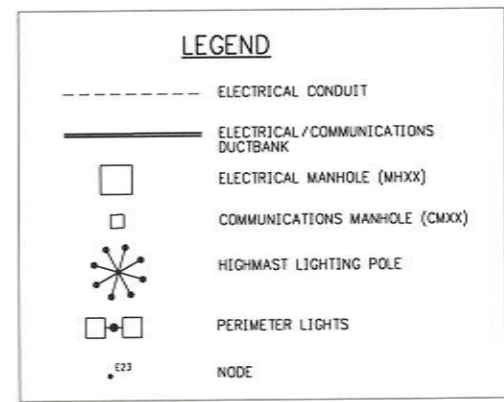
PARTIAL ELECTRICAL AND  
COMMUNICATIONS PLAN-SHEET 3 OF 7

SCALE  
1" = 50'  
DATE  
10/10/07  
REVISION  
2  
DRAWING NO.  
E-11

MATCHLINE - SEE SHEET E-14



**KEY PLAN**  
1"=500'  
0 500 1000 FT.



NODE ID	PLANT EAST	PLANT NORTH
E3	8677.16	11023.78
E4	9088.61	11023.52
E13	9017.16	11566.41
E14	8565.64	11563.60
HM4	8653.39	11059.07
HM5	9062.30	11061.28
HM6	9396.32	11051.72
HM10	8653.38	11453.78
HM11	9062.39	11453.85
HM12	9396.24	11464.17
HM15	9396.08	11968.21
HM16	9062.27	11959.85
HM17	8653.38	11959.78

1"=50'  
0 50 100 FT.

**AS-BUILT**  
JUNE 20, 2009

GRAPHIC SCALES  
CHECK BEFORE USE  
IF SHEET IS LESS THAN 24" X 36"  
IT IS A REDUCED PRINT. SCALE  
ACCORDINGLY

NO.	DESCRIPTION	DATE	BY	NO.	DESCRIPTION	DATE	BY
1	ADDED "CURRENT CONST" BLOCK	3/10/08	RAA				
2	AS-BUILT	6/20/09	RAA				



DESIGNED BY  
C.S.  
DRAWN BY  
J.R.  
CHECKED BY  
C.S.  
PROJECT ENGR  
C.S.

CONTAINER TERMINAL  
AT CHOCTAW POINT  
PAVEMENT, UTILITIES, AND GATE STRUCTURES  
  
PARTIAL ELECTRICAL AND  
COMMUNICATIONS PLAN-SHEET 4 OF 7

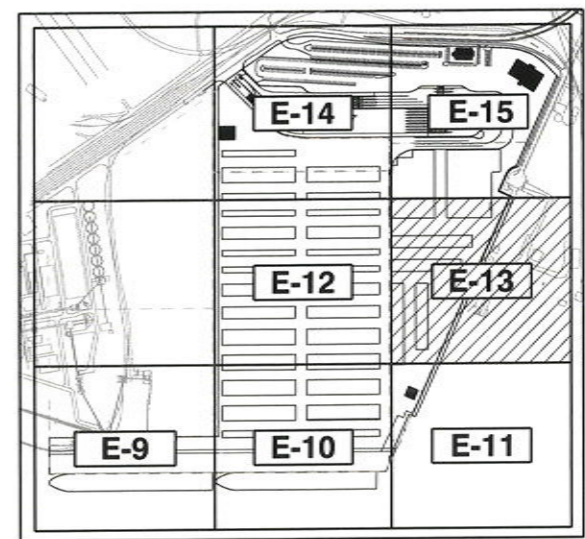
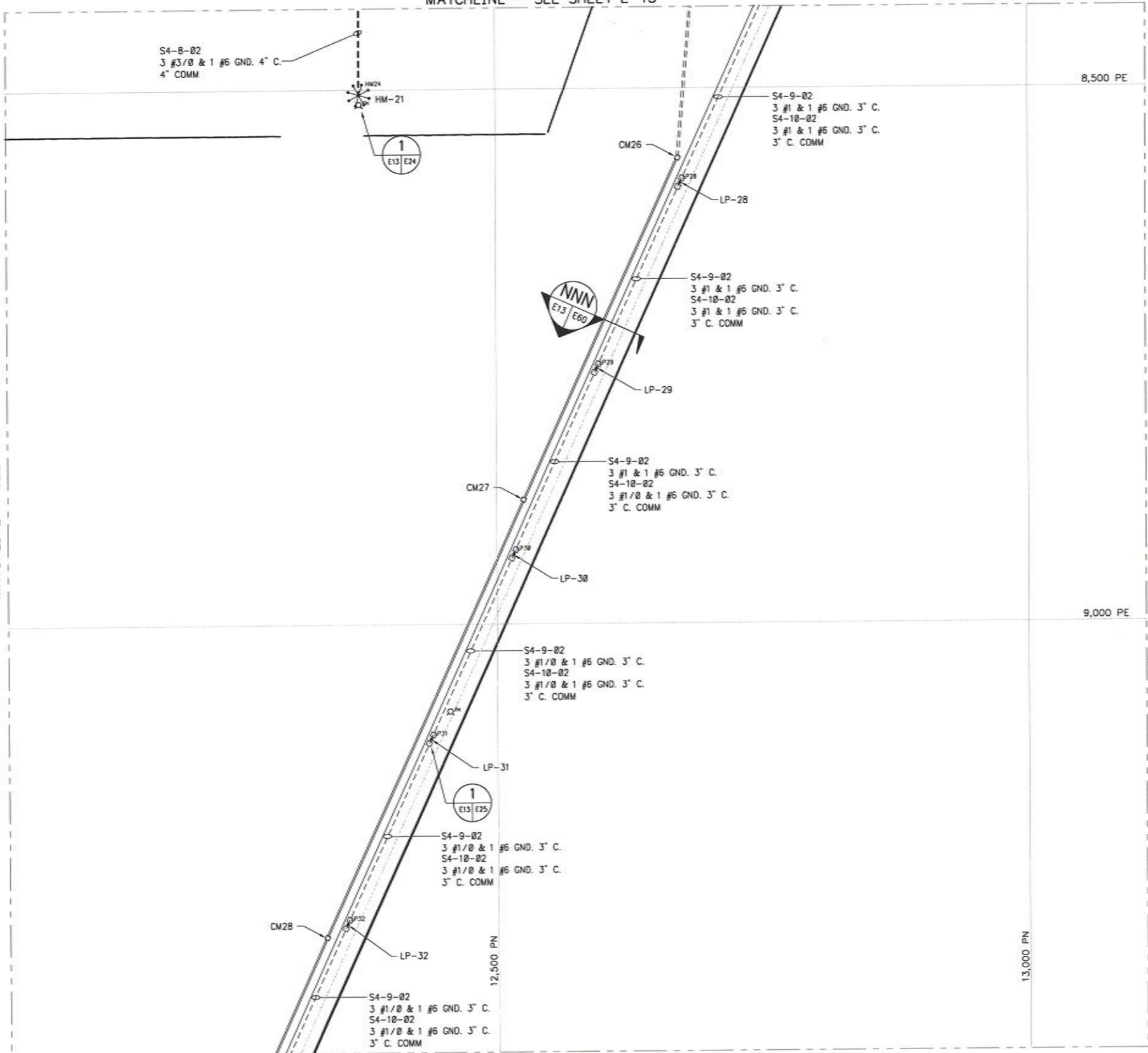
SCALE  
1"=50'-0"  
DATE  
10/10/07  
DRAWING NO.  
E-12  
REVISION  
2

MATCHLINE - SEE SHEET E-13

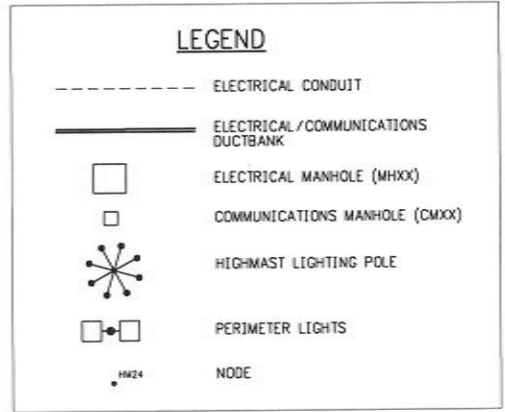
MATCHLINE - SEE SHEET E-10

MATCHLINE - SEE SHEET E-15

MATCHLINE - SEE SHEET E-12



**KEY PLAN**  
1"=500'  
0 500 1000 FT.



NODE ID	PLANT EAST	PLANT NORTH
HM24	8504.79	12372.74
LP28	8588.45	12673.29
LP29	8761.44	12594.70
LP30	8934.48	12516.23
LP31	9107.42	12437.54
LP32	9280.41	12358.96

1"=50'  
0 50 100 FT.

**AS-BUILT**  
JUNE 20, 2009

GRAPHIC SCALES  
CHECK BEFORE USE  
IF SHEET IS LESS THAN 24" X 36"  
IT IS A REDUCED PRINT SCALE  
ACCORDINGLY

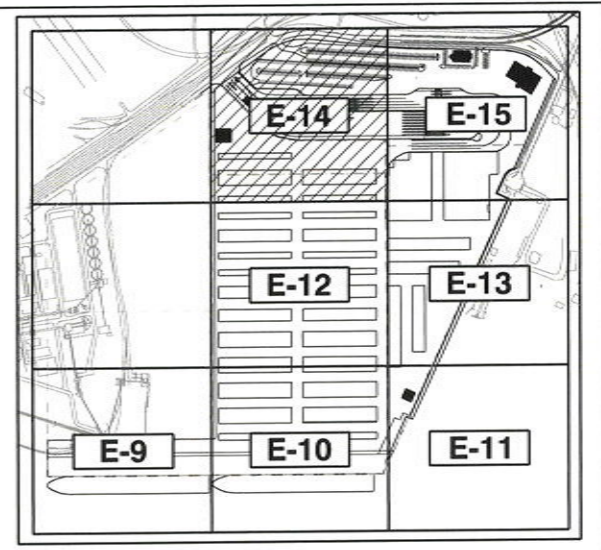
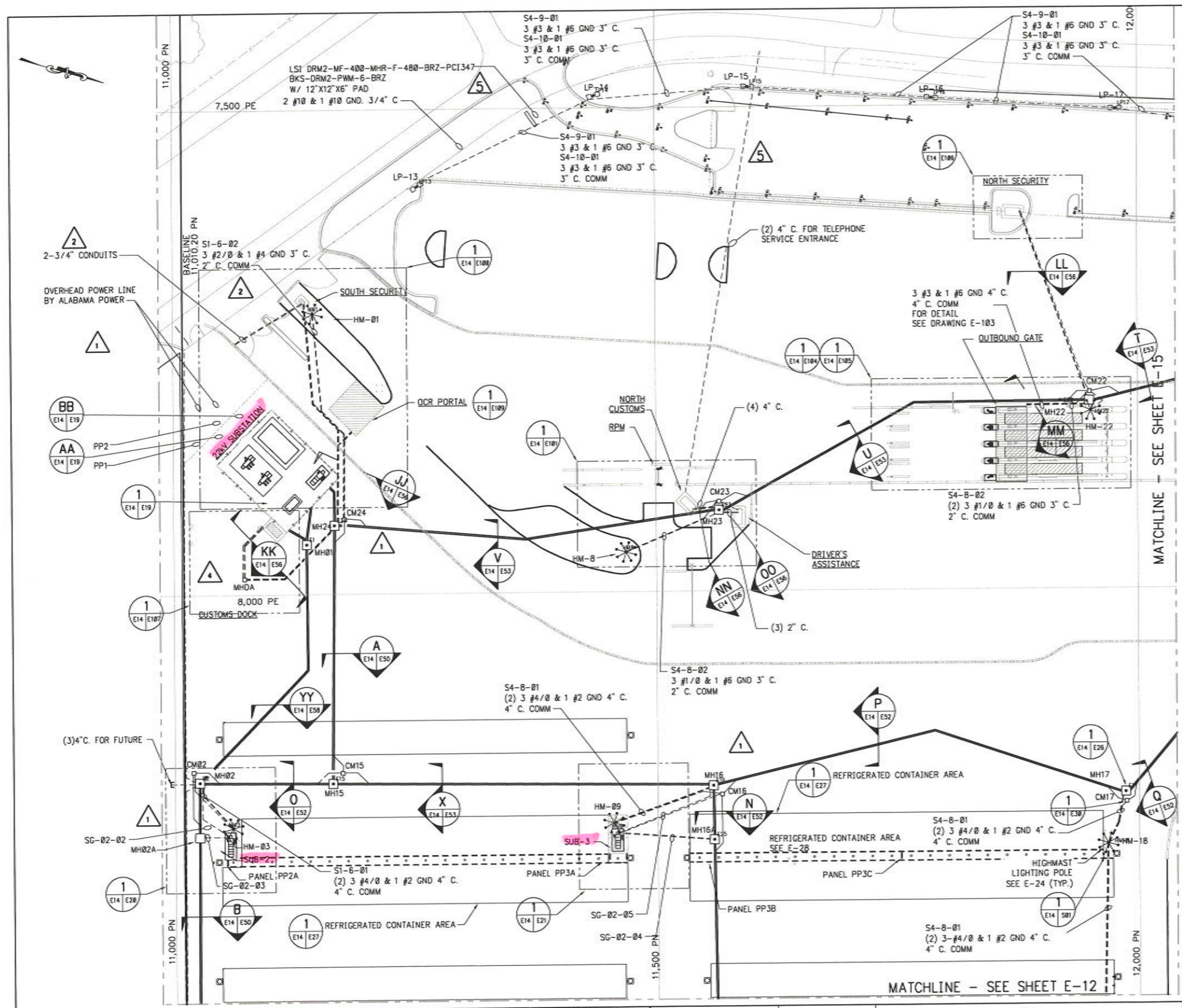
NO.	DESCRIPTION	DATE	BY	NO.	DESCRIPTION	DATE	BY
1	ADDED "CURRENT CONST" BLOCK	3/10/08	RAA				
2	AS-BUILT	6/20/09	RAA				



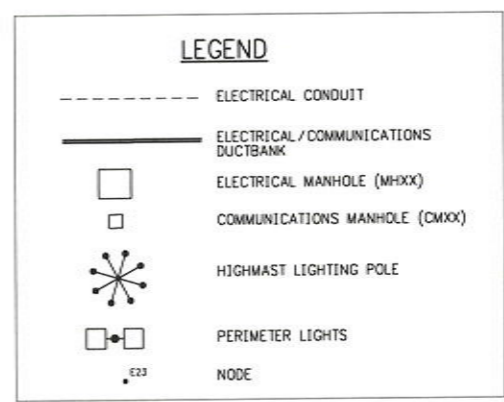
DESIGNED BY  
C.S.  
DRAWN BY  
J.R.  
CHECKED BY  
C.S.  
PROJECT ENGR  
C.S.

CONTAINER TERMINAL  
AT CHOCTAW POINT  
PAVEMENT, UTILITIES, AND GATE STRUCTURES  
  
PARTIAL ELECTRICAL AND  
COMMUNICATIONS PLAN-SHEET 5 OF 7

SCALE  
1"=50'-0"  
DATE  
10/10/07  
REVISION  
2  
DRAWING NO.  
E-13



**KEY PLAN**  
 1"=500'  
 0 500 1000 FT.



**NOTES:**  
 1. SITE ELECTRICAL CONTRACTOR SHALL RUN POWER AND COMM. CONDUIT UP TO WITH-IN 10'-0" OF BUILDINGS. BUILDING ELECTRICAL CONTRACTOR SHALL PICK UP CONDUITS AT THAT POINT AND CONTINUE THEM TO THE BUILDINGS. YARD CONTRACTOR TO INSTALL ALL CABLES TO BUILDING SERVICE DISCONNECT. BUILDING CONTRACTOR TO MAKE FINAL CONNECTION.

NODE ID	PLANT EAST	PLANT NORTH
E1	7948.72	11137.16
E2	8194.589	11025.45
E15	8196.45	11163.47
E16	8201.69	11558.26
E17	8211.00	11986.25
E22	7805.45	11920.65
E23	7916.37	11565.50
E24	7929.05	11166.36
E25	8257.66	11558.94
HM1	7710.29	11144.56
HM2	7800.51	11014.81
HM3	8241.98	11059.39
HM8	7959.14	11469.22
HM9	8239.53	11455.45
HM18	8264.49	11967.94
HM22	7816.08	11951.88
LP13	7575.17	11256.50
LP14	7491.35	11433.23
LP15	7479.57	11597.17
LP16	7492.19	11787.48
LP17	7504.60	11977.94
PP1	7842.70	11025.21
PP2	7822.40	11045.21

1"=50'  
 0 50 100 FT.

**AS-BUILT**  
 JUNE 20, 2009

GRAPHIC SCALES  
 CHECK BEFORE USE  
 IF SHEET IS LESS THAN 24" X 36"  
 IT IS A REDUCED PRINT. SCALE  
 ACCORDINGLY

NO.	DESCRIPTION	DATE	BY	NO.	DESCRIPTION	DATE	BY
1	REVISED COMMUNICATION LINES ADDED LINES FROM ALABAMA POWER	12/18/07	RAA	5	ADDED LIGHTS TO SIGN AND FLAG POLES	9/19/08	RAA
2	ADDED LINES FROM QUARD SHACK	1/15/08	RAA	6	AS-BUILT	6/20/09	RAA
3	ADDED "CURRENT CONST" BLOCK	3/18/08	RAA				
4	ADDED DRIVERS ASSIST BLDG AND MHDA REMOVED CUSTOM'S OFFICE & DOCK	5/31/08	RAA				

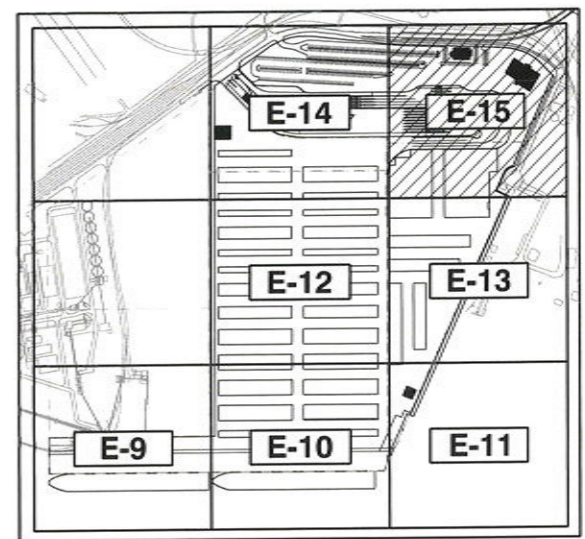
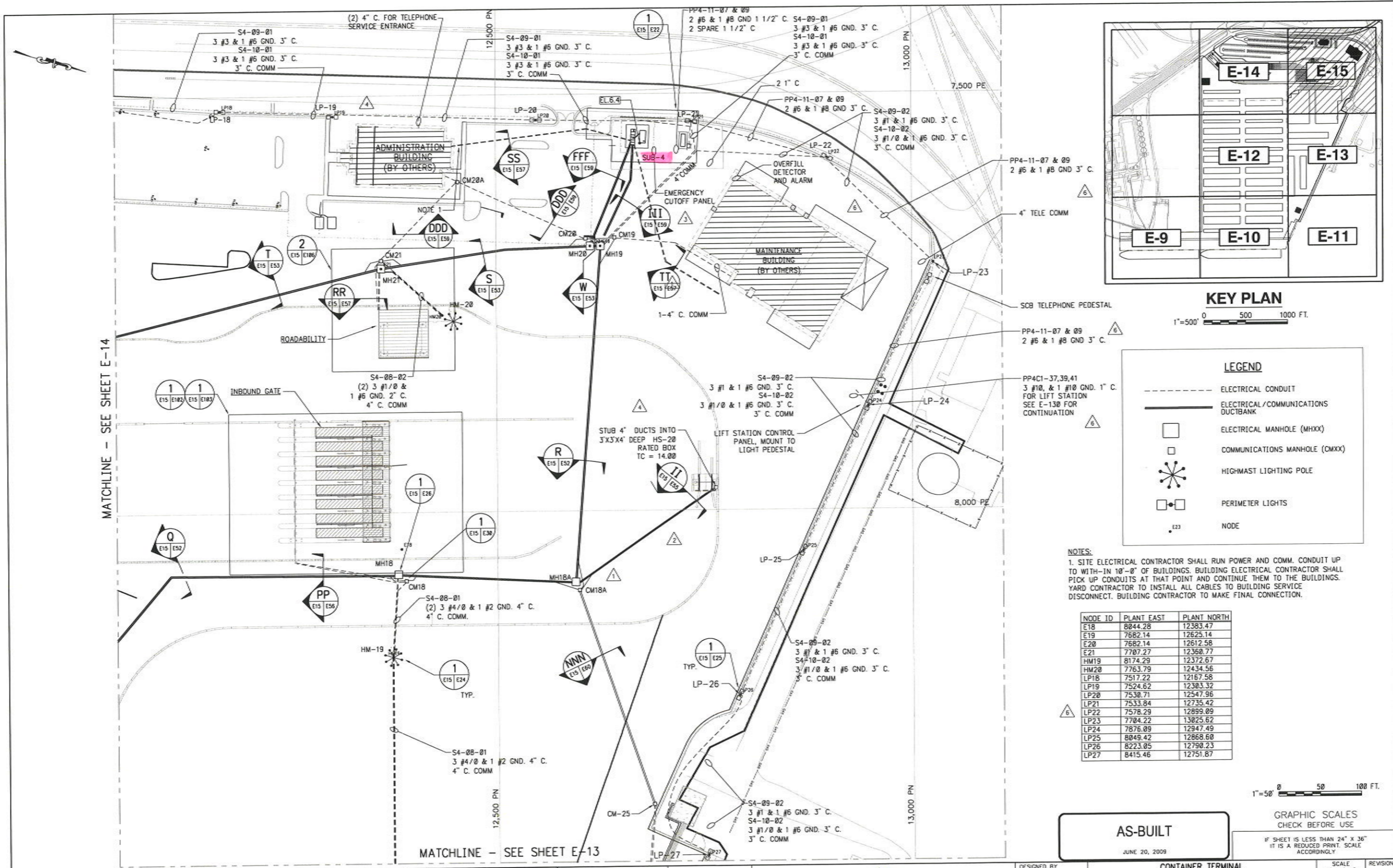


DESIGNED BY  
C.S.  
 DRAWN BY  
J.R.  
 CHECKED BY  
C.S.  
 PROJECT ENGR  
C.S.

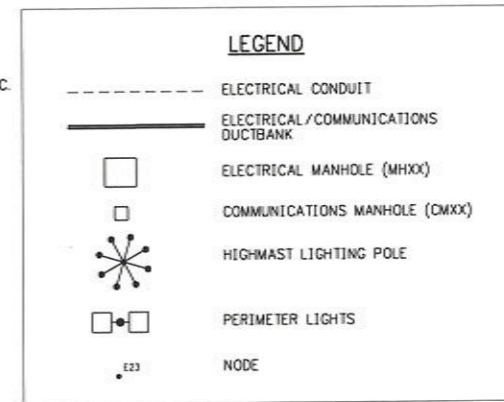
CONTAINER TERMINAL  
 AT CHOCTAW POINT  
 PAVEMENT, UTILITIES, AND GATE STRUCTURES

PARTIAL ELECTRICAL AND  
 COMMUNICATIONS PLAN-SHEET 6 OF 7

SCALE  
 1"=50'-0"  
 DATE  
 10/19/07  
 REVISION  
 6  
 DRAWING NO.  
 E-14



**KEY PLAN**  
1"=500'  
0 500 1000 FT.



**NOTES:**  
1. SITE ELECTRICAL CONTRACTOR SHALL RUN POWER AND COMM. CONDUIT UP TO WITH-IN 10'-0" OF BUILDINGS. BUILDING ELECTRICAL CONTRACTOR SHALL PICK UP CONDUITS AT THAT POINT AND CONTINUE THEM TO THE BUILDINGS. YARD CONTRACTOR TO INSTALL ALL CABLES TO BUILDING SERVICE DISCONNECT. BUILDING CONTRACTOR TO MAKE FINAL CONNECTION.

NODE ID	PLANT EAST	PLANT NORTH
E18	8044.28	12383.47
E19	7682.14	12625.14
E20	7682.14	12612.58
E21	7707.27	12360.77
MH19	8174.29	12372.67
MH20	7763.79	12434.56
LP18	7517.22	12167.58
LP19	7524.62	12303.32
LP20	7530.71	12547.96
LP21	7533.84	12735.42
LP22	7578.29	12899.09
LP23	7704.22	13825.62
LP24	7876.09	12947.49
LP25	8049.42	12868.60
LP26	8223.05	12790.23
LP27	8415.46	12751.87

1"=50'  
0 50 100 FT.

**AS-BUILT**  
JUNE 20, 2009

**GRAPHIC SCALES**  
CHECK BEFORE USE  
IF SHEET IS LESS THAN 24" X 36"  
IT IS A REDUCED PRINT SCALE  
ACCORDINGLY

NO.	DESCRIPTION	DATE	BY	NO.	DESCRIPTION	DATE	BY
1	REVISED COMMUNICATION LINES	12/18/07	RAA	5	ADDED NEW POSITION AND COORDINATES LP19 ADDED "CURRENT CONST" BLOCK	5/18/08	RAA
2	REVISED COMMUNICATION LINES ADDED LINES FOR FUTURE OOR OPERATIONS	1/15/08	RAA	6	ADDED 4" TELE COMM CONDUIT ADDED PWR LINES TO LIFT STATION REVISED CURB	4/25/08	RAA
3	RELOCATED PWR & COMM LINES @ MAINT BLDG	01/23/08	DCS	7	AS-BUILT	6/28/09	RAA
4	MOVED LP-19 ADDED BOX TO END OF COMM LINES	2-28-08	RAA				

ALABAMA LICENSED PROFESSIONAL ENGINEER  
DRING A. SHUMOCK

DESIGNED BY C.S.	<b>CONTAINER TERMINAL AT CHOCTAW POINT PAVEMENT, UTILITIES, AND GATE STRUCTURES</b>	SCALE 1"=50'-0"	REVISION 7
DRAWN BY J.R.		DATE 10/10/07	
CHECKED BY C.S.		DRAWING NO. E-15	
PROJECT ENGR C.S.		<b>PARTIAL ELECTRICAL AND COMMUNICATIONS PLAN-SHEET 7 OF 7</b>	

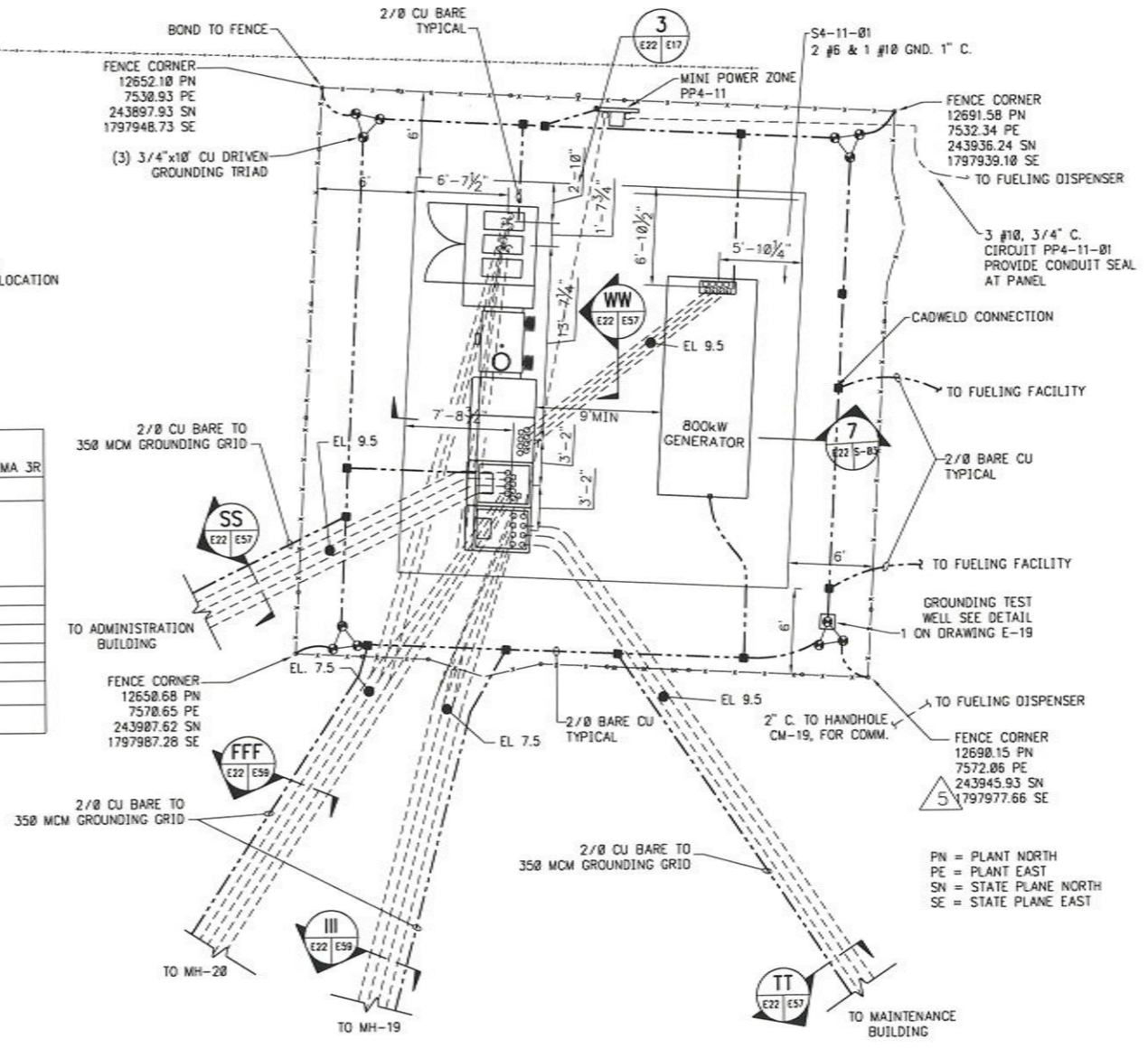
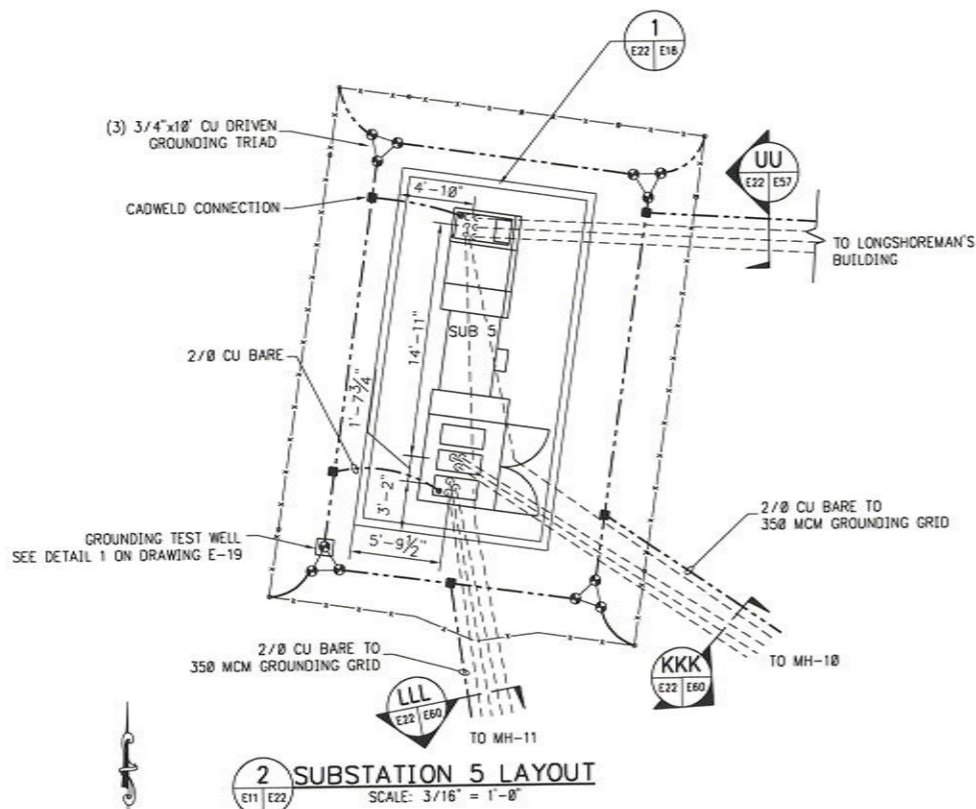
**120/240 PANEL "PP4-11"**

120/240 VOLT, 1 PHASE, 3 WIRE, 60HZ, 10,000 AIC      MINI POWER ZONE, NEMA 3R

LOCATION	LOAD (WATTS)	CIRCUIT NUMBER	CIRCUIT LOAD NUMBER (WATTS)	LOCATION
FUELING DISPENSER	800	1	2	400 TURNSTILE
SPARE	-	3	4	SPARE
SPARE	-	5	6	SPARE
SPARE	-	7	8	SPARE
SPARE	-	9	10	SPARE

TOTAL CONNECTED LOAD: 800 W  
PANEL LOCATION: SUBSTATION 4 YARD

ALL BRANCH BREAKERS SIZED AS SHOWN



NO.	DESCRIPTION	DATE	BY	NO.	DESCRIPTION	DATE	BY
1	REVISED FOR EQUIPMENT PURCHASED	2/20/08	SS	5	ADDED DIM, NORTH, EASTS	4/26/08	RAA
2	ADDED "CURRENT CONST" BLOCK	3/10/08	RAA	6	AS-BUILT	6/20/09	RAA
3	REVISED FOR EQUIPMENT PURCHASED	4/14/08	SS				
4	REVISED FOR CHANGE	4/24/08	SS				



DESIGNED BY  
C.S.  
DRAWN BY  
J.R.  
CHECKED BY  
C.S.  
PROJECT ENGR  
C.S.

**AS-BUILT**  
JUNE 20, 2009

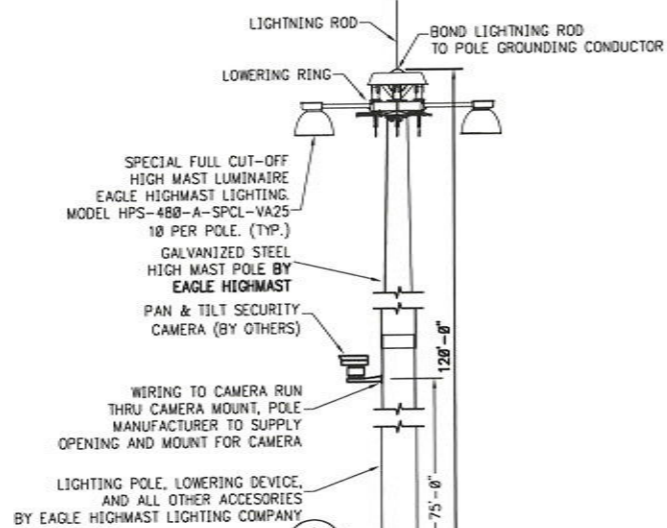
**CONTAINER TERMINAL  
AT CHOCTAW POINT  
PAVEMENT, UTILITIES, AND GATE STRUCTURES**

**SUBSTATIONS 4 AND 5  
LAYOUT PLAN**

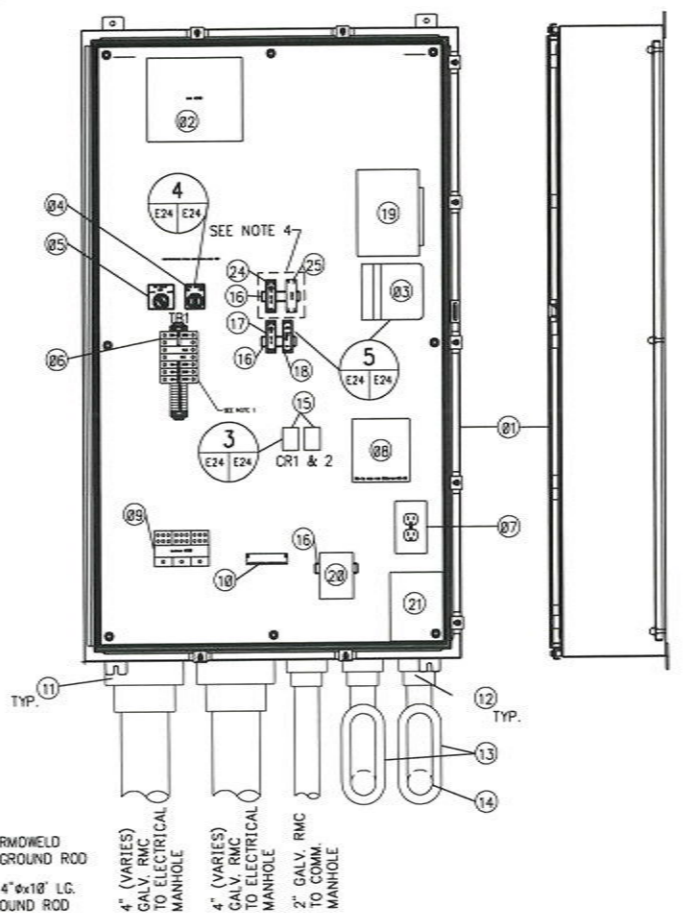
SCALE  
3/16" = 1'-0"  
DATE  
10/10/07  
REVISION  
**6**  
DRAWING NO.  
**E-22**



GRAPHIC SCALES  
CHECK BEFORE USE  
IF SHEET IS LESS THAN 24" X 36"  
IT IS A REDUCED PRINT. SCALE  
ACCORDINGLY

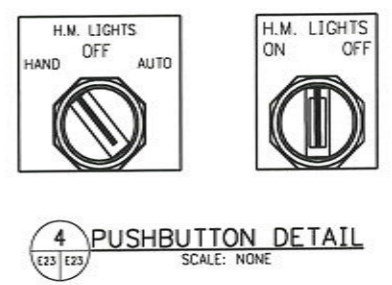


**1 HIGHMAST LIGHTING POLE DETAIL**  
SCALE: NONE

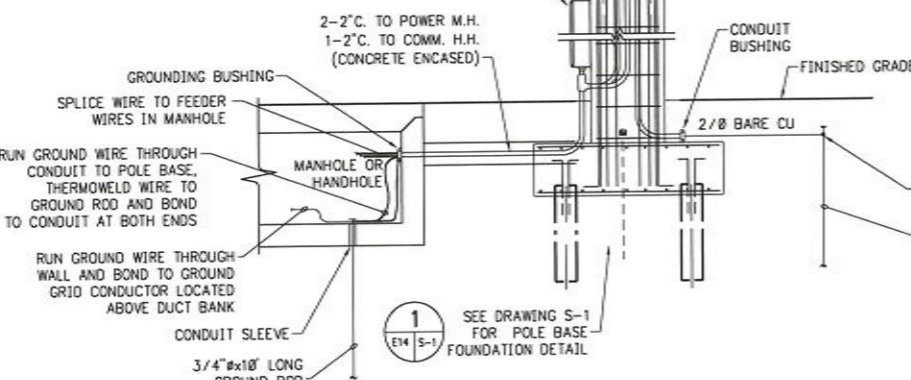


**2 HIGHMAST LIGHTING POLE PANEL HM01-HM21**  
SCALE: NONE

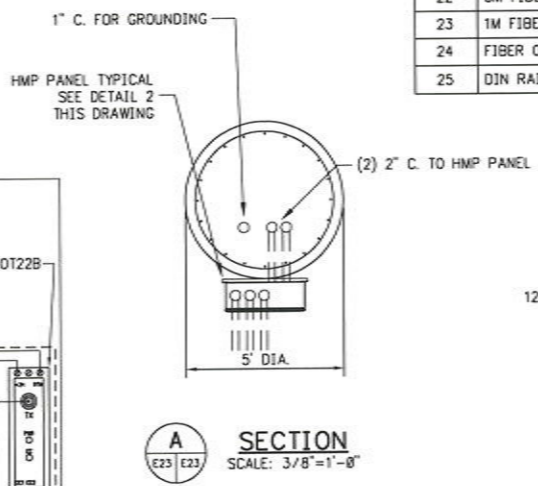
MARK	DESCRIPTION
01	60"x36"x12" 316 STAINLESS STEEL NEMA 4X ENCLOSURE HOFFMAN MODEL A60H3612SS6LP. W/ALUMIMUN BACKPANEL A6036P.
02	3kVA OPEN TYPE TRANSFORMER 480V/120V SOLA, MODEL T3000.
03	FIBER OPTIC SPLITTER BY BLACK BOX.
04	TWO POSITION SELECTOR SWITCH SPRING RETURN TO MIDDLE POSITION. (2) N.C. AND (2) N.O. CONTACTS, ALLEN BRADLEY MODEL 800T-J91B. WITH 800T-X-700E NAMEPLATE THAT READS AS SHOWN ON DRAWING.
05	TWO POSITION SELECTOR SWITCH MAINTAINED POSITION. (2) N.C. AND (2) N.O. CONTACTS, ALLEN BRADLEY MODEL 800T-J2B. WITH 800T-X-700E NAMEPLATE THAT READS AS SHOWN ON DRAWING.
06	TERMINAL BLOCK "TBI" CONSISTING OF: (1) 10A-2P, 480V. CIRCUIT BREAKER WITH (1) N.C. AND (1) N.O. SET OF AUX. CONTACTS ALLEN BRADLEY MODEL 1492-SP-2-DH-100. CONTACTS MODELS 1492-ACBH1 AND 1492-ACBH2. (3) 15A-1P CIRCUIT BREAKERS ALLEN BRADLEY MODEL 1492-CB-1-H-100-N. (10) TERMINAL BLOCKS ALLEN BRADLEY MODEL 1492-F1. TERMINAL MOUNTING RAIL ALLEN BRADLEY 1492-N22. END BARRIER ALLEN BRADLEY MODEL 1492-N18. END CLAMPS ALLEN BRADLEY MODEL 1492-N2.
07	15A 120V, RECEPTACLE FLUSH MOUNTED INSIDE OF JUNCTION BOX. PROVIDE ALUMINUM WEATHER PROOF COVER.
08	30A-3P, OPEN TYPE ELECTRICALLY OPERATED MAGNETICALLY LATCHED LIGHTING CONTACTOR W/AUX. CONTACTS. 120V COIL. ALLEN BRADLEY MODEL 500LP-B0-120-93
09	POWER DISTRIBUTION TERMINAL BLOCK BUSSMAN, MODEL 16332
10	GROUND BAR
11	GALV. RAIN TIGHT HUB TYPICAL
12	2" GALV. RMC CONDUIT NIPPLE
13	2" GALV. LBD CONDUIT FITTING
14	2" GALV. RMC COUPLING INTO POLE BASE
15	DPDT 277V. COIL RELAY ALLEN BRADLEY, MODEL 700-HA32A27 SOCKET MODEL, 700-HN125 (FOR ON-OFF LIGHT CONTROL)
16	35 MM DIN RAIL, ALLEN BRADLEY CAT. NO. 199-DR1, AS REQUIRED
17	FIBER OPTIC RECEIVER, WEED INSTRUMENT PART NO. ZCC0100650
18	HM CABINET 24V DC POWER SUPPLY, WEED INSTRUMENT PART NO. ZCC0100602
19	FIBER OPTIC CAMERA & SECURITY EQUIPMENT BY BLACK BOX.
20	30A-3P CIRCUIT BREAKER ALLEN BRADLEY MODEL 1492-MC-BA330.
21	UNINTERRUPTIBLE POWER SUPPLY (UPS).
22	5M FIBER OPTIC CABLE, BLACK BOX CAT. NO.
23	1M FIBER OPTIC CABLE, BLACK BOX CAT. NO. EFN110-001M-STLC
24	FIBER OPTIC TRANSMITTER, WEED INSTRUMENT PART NO. ZCC0100600
25	DIN RAIL MOUNT CONTROL RELAY, ALLEN BRADLEY CAT. NO. 700-HLT12U1



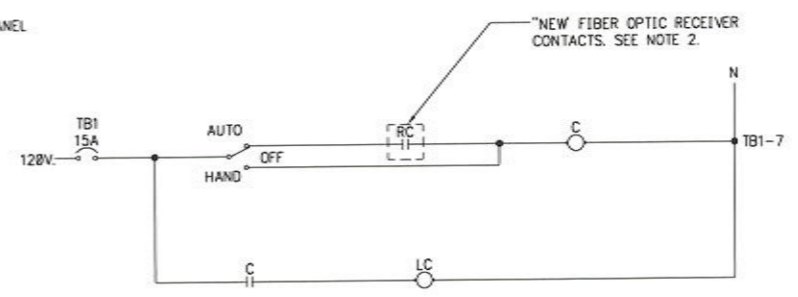
NOTE:  
1. POLES HM-7, HM-13 AND HM-14 SHALL BE 100' TALL.  
2. SEE DRAWING E-35 FOR WIRING DIAGRAM.  
3. PROVIDE GROUNDING BUSHING ON INTERIOR OF POLE TO BOND LIGHTING ROD CONDUCTOR & GROUNDING CONDUCTOR TO GROUND ROD.  
4. EQUIPMENT ENCLOSED IN BOX TO ONLY BE PROVIDED WITH HIGH MAST POLE 22.



**5 LIGHTING CONTROL SCHEMATIC**  
SCALE: NONE



**A SECTION**  
SCALE: 3/8"=1'-0"



**3 LIGHTING CONTROL SCHEMATIC**  
SCALE: NONE



**AS-BUILT**  
JUNE 20, 2009

GRAPHIC SCALES  
CHECK BEFORE USE  
IF SHEET IS LESS THAN 24" X 36"  
IT IS A REDUCED PRINT SCALE  
ACCORDINGLY

NO.	DESCRIPTION	DATE	BY	NO.	DESCRIPTION	DATE	BY
1	ADDED "CURRENT CONST" BLOCK	3/18/09	RAA				
2	AS-BUILT	5/28/09	RAA				



DESIGNED BY  
CAS  
DRAWN BY  
SS  
CHECKED BY  
CAS  
PROJECT ENGR  
C.S.

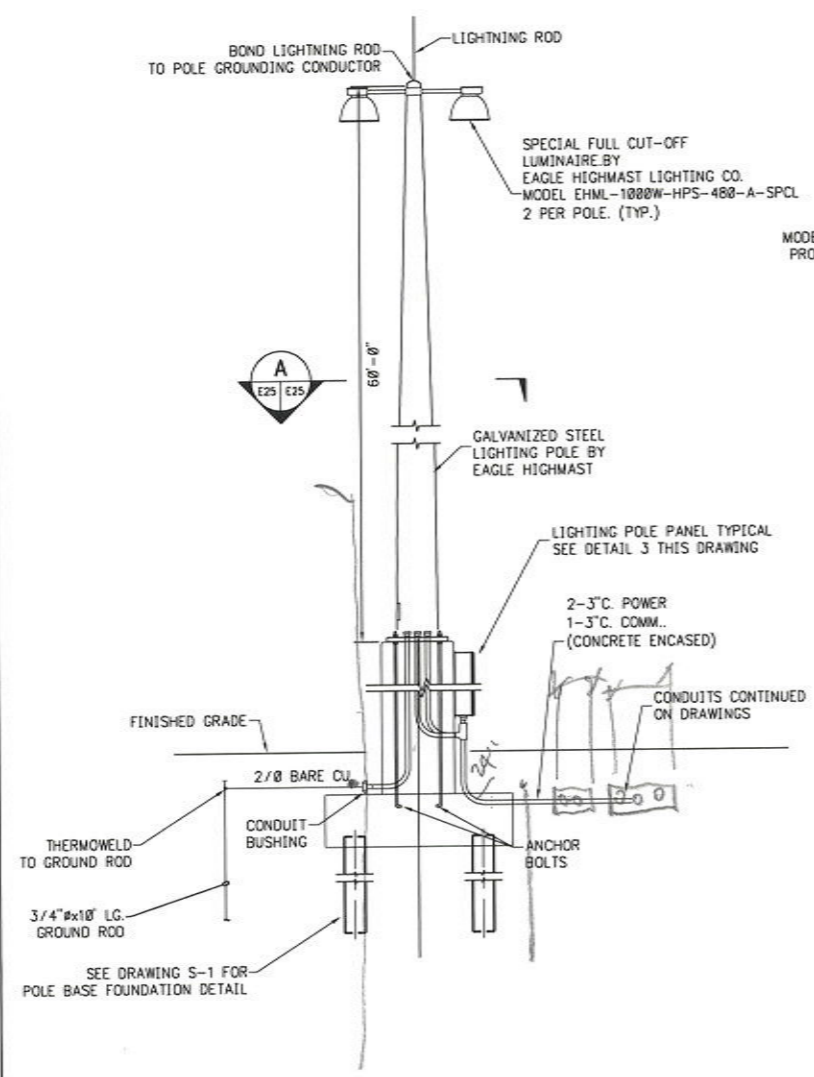
CONTAINER TERMINAL  
AT CHOCTAW POINT  
PAVEMENT, UTILITIES, AND GATE STRUCTURES

LIGHTING DETAILS

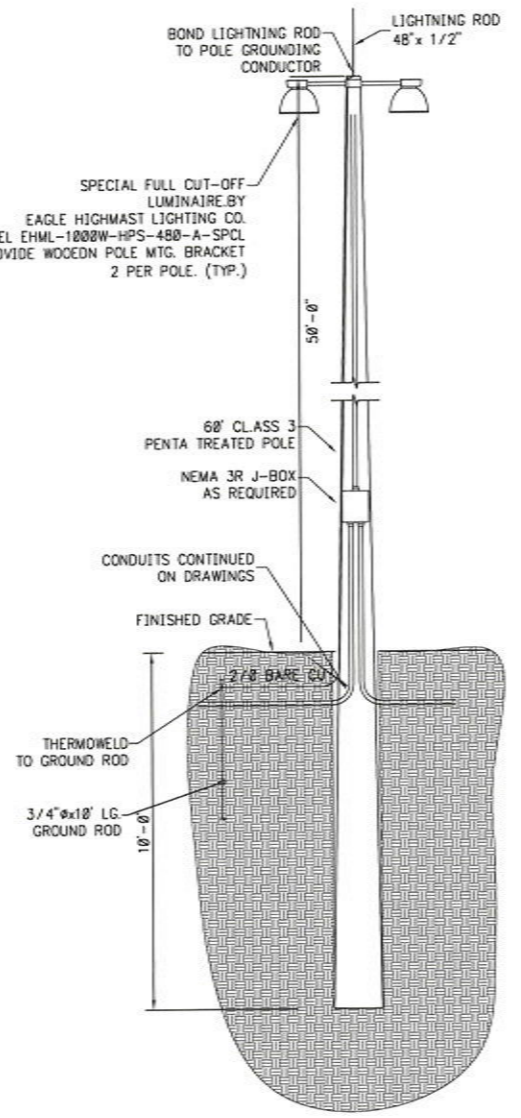
SCALE AS SHOWN	REVISION
DATE: 10/10/07	2
DRAWING NO.	E-24



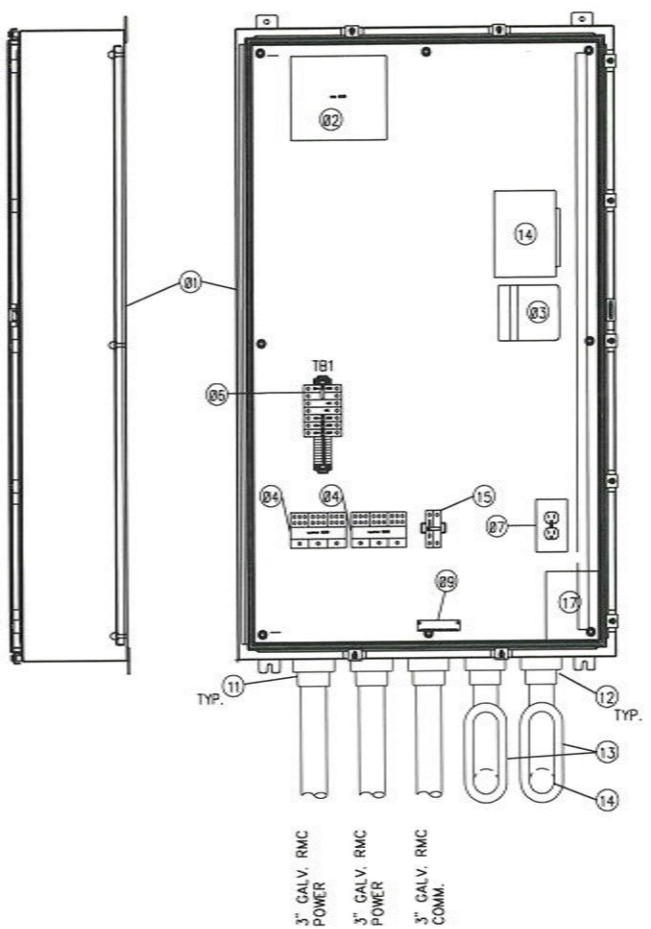
LIST OF MATERIALS	
MARK	DESCRIPTION
01	60"x36"x12" 316 STAINLESS STEEL NEMA 4X ENCLOSURE HOFFMAN MODEL A60H3612SS6LP. W/ALUMINUM BACKPANEL A6036P.
02	3KVA OPEN TYPE TRANSFORMER 480V/120V SOLA, MODEL T3000.
03	FIBER OPTIC SPLITTER BY BLACK BOX.
04	POWER DISTRIBUTION TERMINAL BLOCK BUSSMAN, MODEL 16332
05	TWO POSITION SELECTOR SWITCH MAINTAINED POSITION. (2) N.C. AND (2) N.O. CONTACTS, ALLEN BRADLEY MODEL 800T-J2B. WITH 800T-X-700E NAMEPLATE THAT READS AS SHOWN ON DRAWING.
06	TERMINAL BLOCK "TB1" CONSISTING OF: (1) 10A-2P, 480V. CIRCUIT BREAKER WITH (1) N.C. AND (1) N.O. SET OF AUX. CONTACTS ALLEN BRADLEY MODEL 1492-SP-2-DH-100. CONTACTS MODELS 1492-ACBH1 AND 1492-ACBH2. (3) 15A-1P CIRCUIT BREAKERS ALLEN BRADLEY MODEL 1492-CB-1-H-100-N. (10) TERMINAL BLOCKS ALLEN BRADLEY MODEL 1492-F1. TERMINAL MOUNTING RAIL ALLEN BRADLEY 1492-N22. END BARRIER ALLEN BRADLEY MODEL 1492-N18. END CLAMPS ALLEN BRADLEY MODEL 1492-N2.
07	15A 120V. RECEPTACLE FLUSH MOUNTED IN SIDE OF JUNCTION BOX. PROVIDE ALUMINUM WEATHER PROOF COVER.
08	POWER DISTRIBUTION TERMINAL BLOCK BUSSMAN, MODEL 16332
09	GROUND BAR
10	GALV. RAIN TIGHT HUB TYPICAL
11	2" GALV. RMC CONDUIT NIPPLE
12	2" GALV. LBO CONDUIT FITTING
13	2" GALV. RMC COUPLING INTO POLE BASE
14	FIBER OPTIC CAMERA & SECURITY EQUIPMENT BY BLACK BOX.
15	(2) 10A-2P, 480V. CIRCUIT BREAKER WITH (1) N.C. AND (1) N.O. SET OF AUX. CONTACTS ALLEN BRADLEY MODEL 1492-CB-2-DH-100. CONTACTS MODELS 1492-ACBH1 AND 1492-ACBH2.
16	35 MM DIN RAIL, ALLEN BRADLEY CAT. NO. 199-DR1, AS REQUIRED
17	UNINTERRUPTIBLE POWER SUPPLY (UPS).



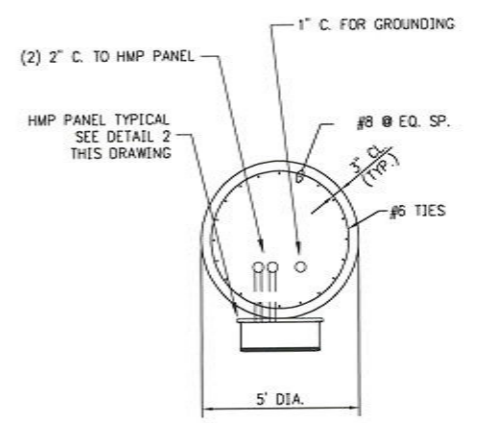
**1 PERIMETER LIGHTING POLE DETAIL**  
SCALE: 1/8"=1'-0"  
E25 | E13  
E14  
E15



**2 TEMPORARY DOCK LIGHTING POLE DETAIL**  
SCALE: 1/8"=1'-0"  
E25 | E9



**3 PERIMETER LIGHTING POLE PANEL**  
SCALE: NONE  
E25 | E25



**A SECTION**  
SCALE: 3/8"=1'-0"  
E25 | E25

NOTE: SEE DRAWING E-36 FOR WIRING DIAGRAM  
1. PROVIDE GROUNDING BUSHING ON INTERIOR OF POLE TO BOND LIGHTING ROD CONDUCTOR & GROUNDING CONDUCTOR TO GROUND ROD.



**AS-BUILT**  
JUNE 20, 2009

GRAPHIC SCALES  
CHECK BEFORE USE  
IF SHEET IS LESS THAN 24" X 36"  
IT IS A REDUCED PRINT. SCALE  
ACCORDINGLY

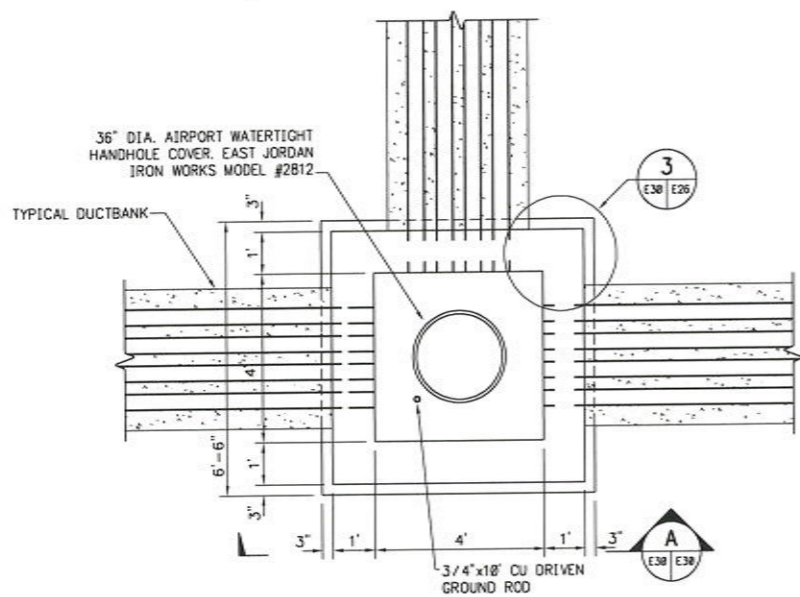
NO.	DESCRIPTION	DATE	BY	NO.	DESCRIPTION	DATE	BY
1	ADDED "CURRENT CONST" BLOCK	3/10/08	RAA				
2	AS-BUILT	6/20/09	RAA				



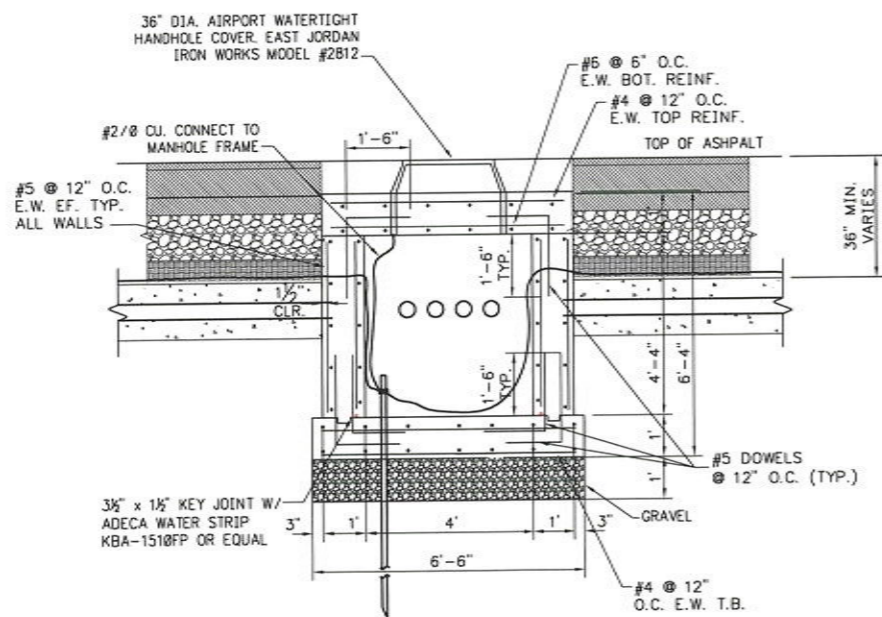
DESIGNED BY CAS  
DRAWN BY SS  
CHECKED BY CAS  
PROJECT ENGR C.S.

CONTAINER TERMINAL  
AT CHOCTAW POINT  
PAVEMENT, UTILITIES, AND GATE STRUCTURES  
LIGHTING DETAILS

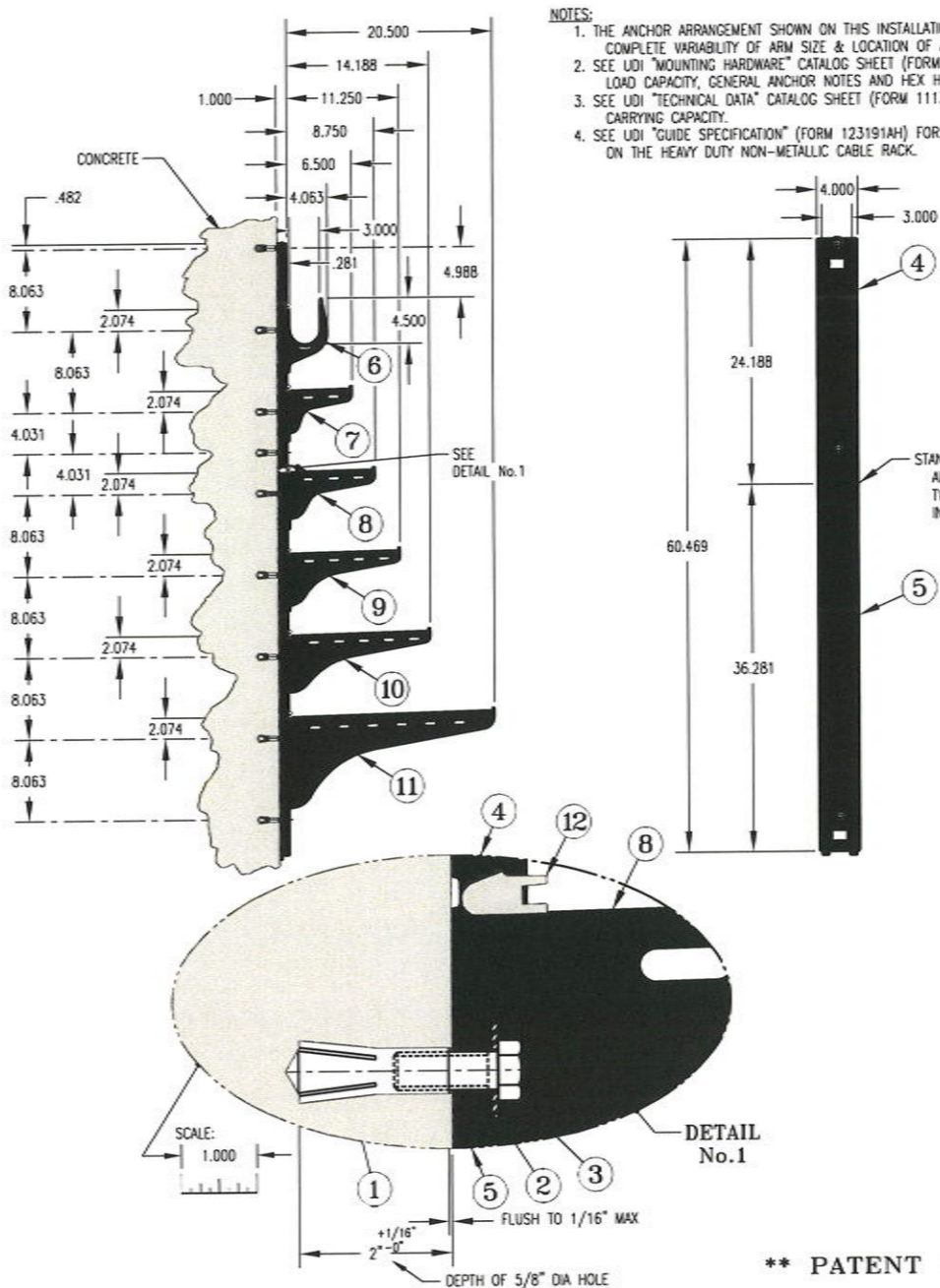
SCALE AS SHOWN  
DATE 10/10/07  
REVISION 2  
DRAWING NO. E-25



1 TYPICAL COMMUNICATIONS HANDHOLE  
SCALE: 1/2" = 1'-0"



A SECTION TYPICAL COMMUNICATIONS HANDHOLE  
SCALE: 1/2" = 1'-0"



2 SECTION TYPICAL COMMUNICATIONS HANDHOLE  
SCALE: 1/2" = 1'-0"

PROVIDE CABLE RACKS IN ALL MANHOLES. MANHOLES MH-01 & MH24 SHALL HAVE CABLE RACKS ON ALL FOUR WALLS, THE REMAINING ELECTRICAL AND COMMUNICATIONS MANHOLES SHALL HAVE CABLE RACKS ON THE TWO WALLS OPPOSITE THE CONDUIT ENTRY. NUMBER OF SUPPORTS AS REQUIRED BY AMOUNT OF CABLES.

- NOTES:
1. THE ANCHOR ARRANGEMENT SHOWN ON THIS INSTALLATION DRAWING ALLOWS FOR COMPLETE VARIABILITY OF ARM SIZE & LOCATION OF ARM ON STANCHION.
  2. SEE UDI "MOUNTING HARDWARE" CATALOG SHEET (FORM 120292AC) FOR ANCHOR LOAD CAPACITY, GENERAL ANCHOR NOTES AND HEX HEAD CAP SCREW NOTES.
  3. SEE UDI "TECHNICAL DATA" CATALOG SHEET (FORM 111391AD) FOR LOAD CARRYING CAPACITY.
  4. SEE UDI "GUIDE SPECIFICATION" (FORM 123191AH) FOR GENERAL SPECIFICATIONS ON THE HEAVY DUTY NON-METALLIC CABLE RACK.

BILL OF MATERIAL			
ITEM NUMBER	CATALOG NUMBER	DESCRIPTION	QUANTITY REQUIRED
1	FSRM-12	1/2"-13 DROP-IN ANCHOR Material: 303 STAINLESS STEEL	9
2	FFW316-18-40	FLAT WASHER ID=562, OD=1.250, THK=.078 Material: 316 STAINLESS STEEL	9
3	FHC316-16-044	1/2"-13 X 1-3/8" LG. HEX HEAD CAP SCREW Material: 316 STAINLESS STEEL	9
4	CR24-B	CR24-B STANCHION Material: 50% Glass Reinforced Nylon	1
5	CR36-B	CR36-B STANCHION Material: 50% Glass Reinforced Nylon	1
6	3HDS	3HDS SADDLE Material: 50% Glass Reinforced Nylon	1
7	RA06	RA06 ARM (6" LONG) Material: 50% Glass Reinforced Nylon	1
8	RA08	RA08 ARM (8" LONG) Material: 50% Glass Reinforced Nylon	1
9	RA11	RA11 ARM (11" LONG) Material: 50% Glass Reinforced Nylon	1
10	RA14	RA14 ARM (14" LONG) Material: 50% Glass Reinforced Nylon	1
11	RA20	RA20 ARM (20" LONG) Material: 50% Glass Reinforced Nylon	1
12	HDL	HDL LOCK (OPTIONAL) Material: Polycarbonate	1 PER ARM
NOT SHOWN	FRT-112	SETTING TOOL (Used to install Catalog No. FSRM-12 Drop-In Anchor)	AS REQ'D

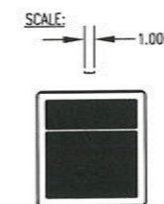
- GENERAL INSTALLATION GUIDELINES  
For the highest cable rack load capacity:
1. BE SURE THE SURFACE OF THE CONCRETE WALL IS SMOOTH, FLAT AND PLUMB.
  2. INSTALL ONE FASTENER IN EVERY ELONGATED STANCHION HOLE.
  3. INSTALL EACH DROP-IN ANCHOR AS SHOWN ON THIS DRAWING AND AS DESCRIBED BELOW:
    - A. DRILL A 5/8" DIAMETER HOLE 2" DEEP.
    - B. BLOW OUT HOLE.
    - C. DRIVE ANCHOR FLUSH TO 1/16" BELOW SURFACE OF CONCRETE.
    - D. EXPAND ANCHOR WITH FRT-112 SETTING TOOL. ANCHOR IS PROPERLY SET WHEN SHOULDER OF SETTING TOOL IS FLUSH WITH THE TOP OF ANCHOR.
  4. INSTALL THE FLAT WASHER AND TIGHTEN THE CAP SCREW JUST ENOUGH TO ATTAIN A SNUG FIT. AVOID HIGH SCREW TORQUE WHICH INDUCES COMPRESSIVE STRESS.
  5. AFTER ASSEMBLING THE ARMS TO THE STANCHION, TAP THE ARM DOWN WITH A LIGHT MALLET BLOW. THE LIGHT MALLET BLOW WILL FULLY SEAT AND LOCK ARM IN PLACE.
  6. INSTALL OPTIONAL HDL LOCK BY PLACING THE LOCK ON THE ARM WITH THE LOCKING BARBS UP. PUSH THE LOCK INTO THE RECTANGULAR HOLE IN THE STANCHION. WHEN THE STOP FLANGES ON THE LOCK HIT THE STANCHION, THE LOCK WILL CLICK INTO PLACE. SEE DETAIL No.1 AT LEFT.

HEAVY DUTY NON-METALLIC CABLE RACK  
Installation Details For 1 Ea. CR36-B & 1 Ea. CR24-B Stanchions  
With 1 Ea. 3HDS Saddle, 1 Ea. RA06, 1 Ea. RA08, 1 Ea. RA11,  
1 Ea. RA14 & 1 Ea. RA20 Arms Using Drop-In Anchors

See At Left  
DESIGNED BY: Don McCoy  
DRAWN BY: Alan Armstrong  
CHECKED BY: Don McCoy

NO. 3-4-04  
1st Designed For TYPICAL INSTALLATION OF CABLE RACKS

UNDERGROUND DEVICES, INC.  
NORTHBROOK, ILLINOIS 60062 - PHONE: (847) 205-9000  
DRAWING NUMBER: 90-3238  
PAGE 1 OF 1



\*\* PATENT PENDING \*\*

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NO.	DESCRIPTION	DATE	BY	NO.	DESCRIPTION	DATE	BY
1	ADDED "CURRENT CONST" BLOCK	3/18/88	RAA				
2	AS-BUILT	6/28/89	RAA				



DESIGNED BY  
C.S.  
DRAWN BY  
J.R.  
CHECKED BY  
C.S.  
PROJECT ENGR  
C.S.

AS-BUILT

JUNE 20, 2009

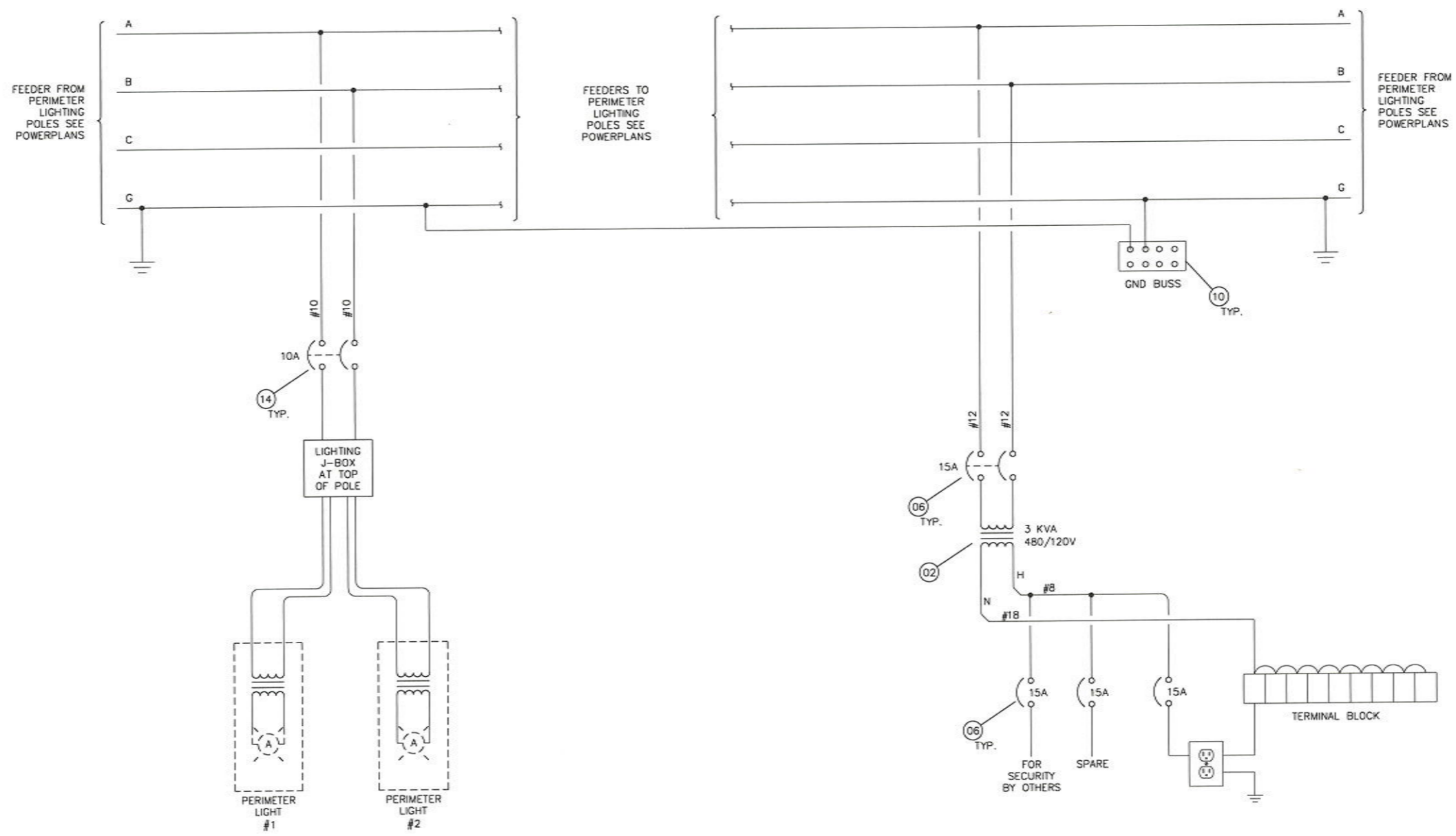
CONTAINER TERMINAL  
AT CHOCTAW POINT  
PAVEMENT, UTILITIES, AND GATE STRUCTURES

ELECTRICAL DETAILS

GRAPHIC SCALES  
CHECK BEFORE USE

IF SHEET IS LESS THAN 24" X 36"  
IT IS A REDUCED PRINT. SCALE  
ACCORDINGLY

SCALE  
1/2" = 1'-0"  
DATE  
10/10/07  
REVISION  
2  
DRAWING NO.  
E-30



PERIMETER LIGHTING POLE WIRING DIAGRAM  
SCALE: NONE

**NOTES:**  
1. SEE DRAWING E-25 FOR HIGHMAST POLE PANEL AND LIST OF MATERIALS.  
XX INDICATES ITEM NO. ON LIST OF MATERIALS ON DRAWING E-25

**AS-BUILT**  
JUNE 20, 2009

GRAPHIC SCALES  
CHECK BEFORE USE  
IF SHEET IS LESS THAN 24" X 36"  
IT IS A REDUCED PRINT. SCALE  
ACCORDINGLY

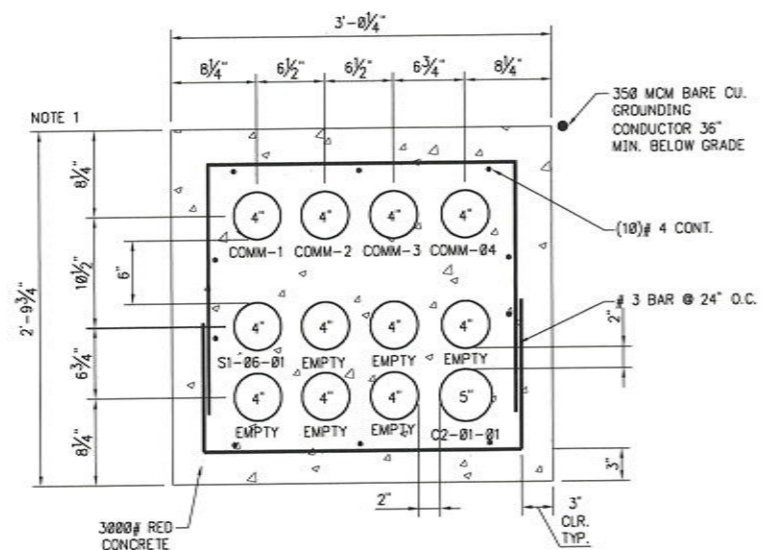
NO.	DESCRIPTION	DATE	BY	NO.	DESCRIPTION	DATE	BY
1	ADDED "CURRENT CONST" BLOCK	3/10/08	RAA				
2	AS-BUILT	6/20/09	RAA				



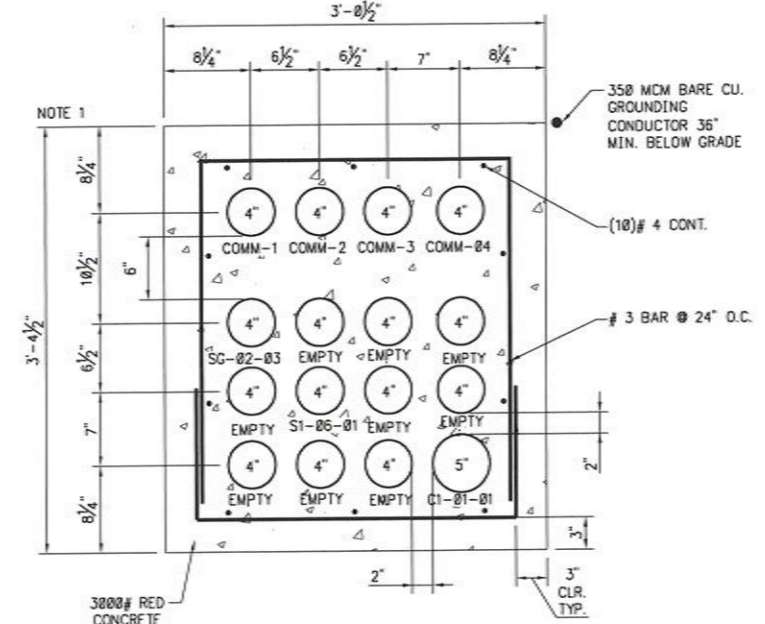
DESIGNED BY  
C.S.  
DRAWN BY  
J.R.  
CHECKED BY  
C.S.  
PROJECT ENGR  
C.S.

CONTAINER TERMINAL  
AT CHOCTAW POINT  
PAVEMENT, UTILITIES, AND GATE STRUCTURES  
  
PERIMETER LIGHTING POLE  
WIRING DIAGRAM

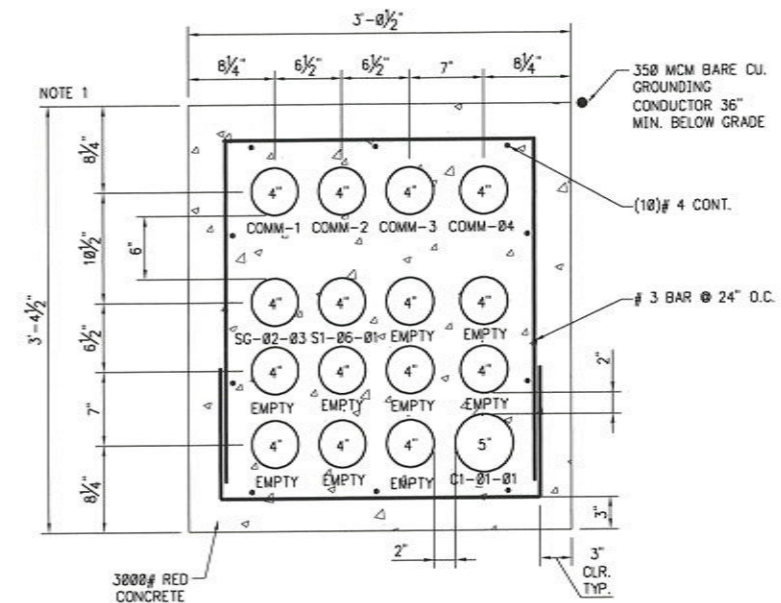
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DATE  
10/10/07  
REVISION  
2  
DRAWING NO.  
E-36



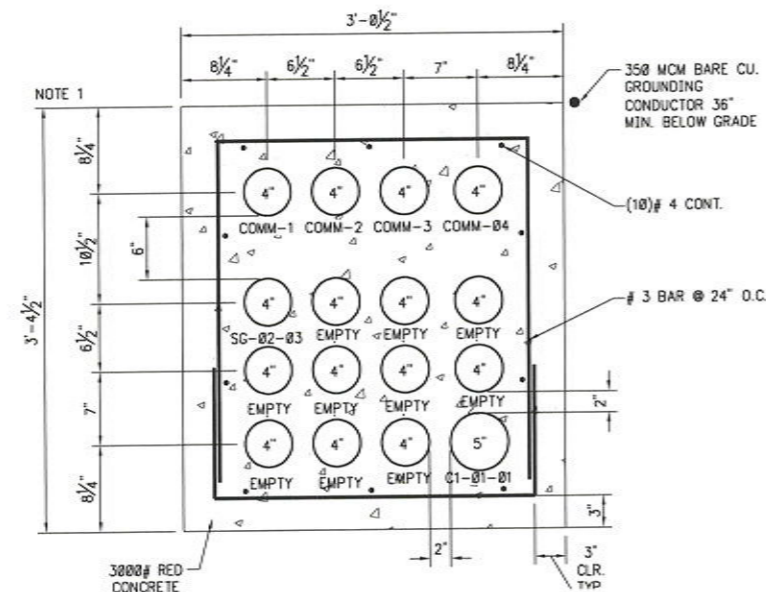
**A DUCTBANK SECTION VIEW**  
SCALE: 1 1/2"=1'-0"



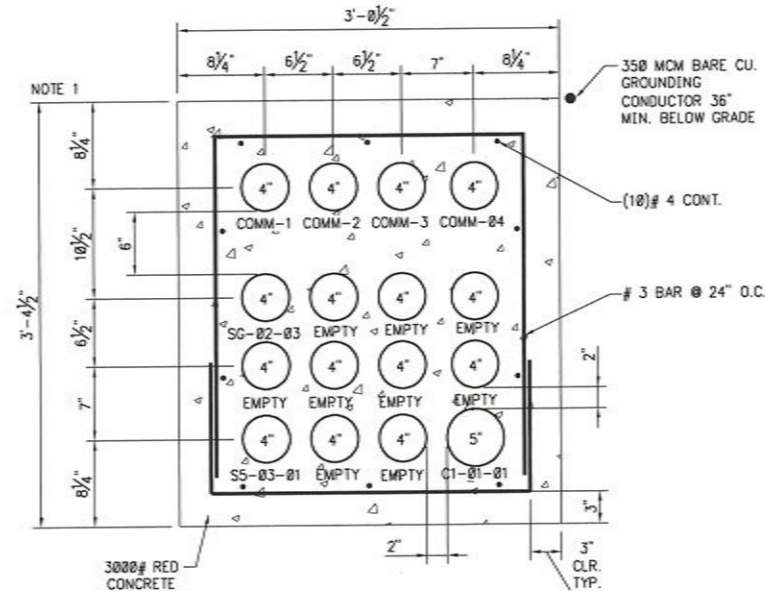
**B DUCTBANK SECTION VIEW**  
SCALE: 1 1/2"=1'-0"



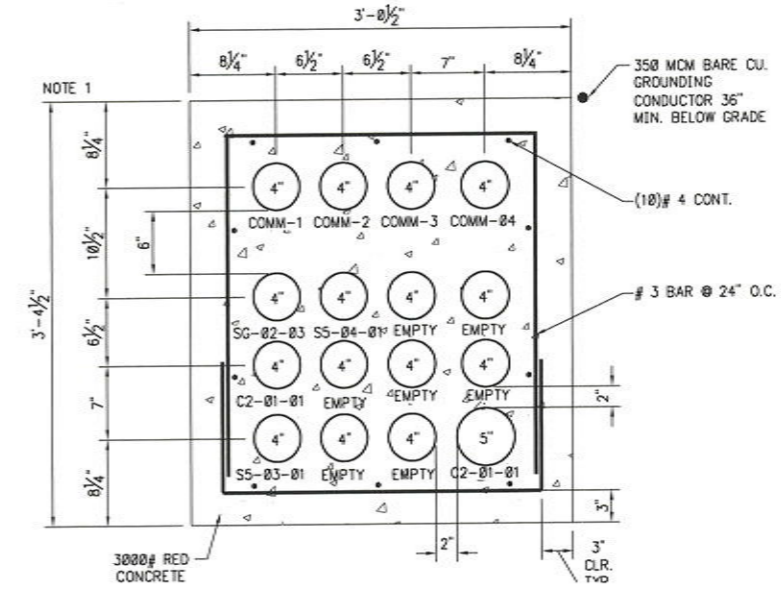
**C DUCTBANK SECTION VIEW**  
SCALE: 1 1/2"=1'-0"



**D DUCTBANK SECTION VIEW**  
SCALE: 1 1/2"=1'-0"



**E DUCTBANK SECTION VIEW**  
SCALE: 1 1/2"=1'-0"



**F DUCTBANK SECTION VIEW**  
SCALE: 1 1/2"=1'-0"

NOTES:  
1. DUCTBANKS SHALL BE MIN. OF 36" BELOW FINISHED GRADE. SEE DRAWINGS E-10 THRU E-15 FOR ACTUAL DUCTBANK ELEVATIONS AT MANHOLES. DUCTBANKS SHALL BE SLOPED AT 0.5% BACK TO MANHOLE TO INSURE PROPER DRAINAGE OF CONDUITS.



**AS-BUILT**  
JUNE 20, 2009

GRAPHIC SCALES  
CHECK BEFORE USE  
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IT IS A REDUCED PRINT. SCALE  
ACCORDINGLY

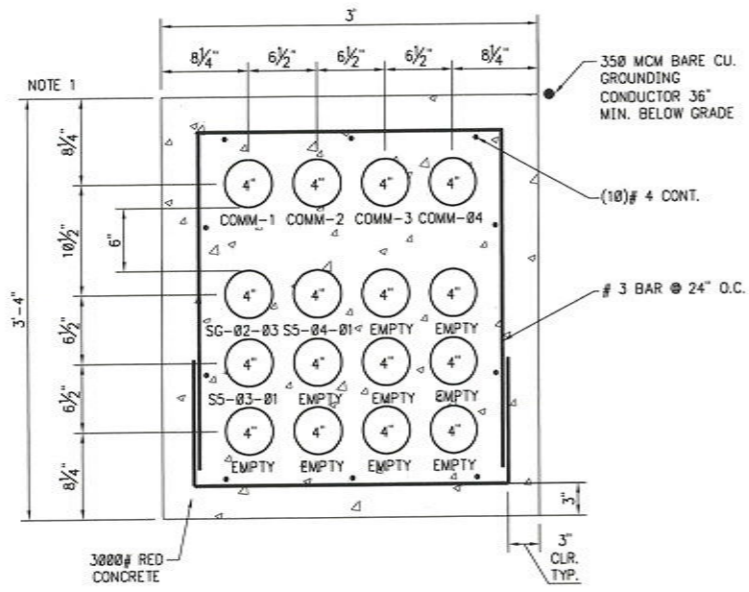
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2	AS-BUILT	6/20/09	RAA				



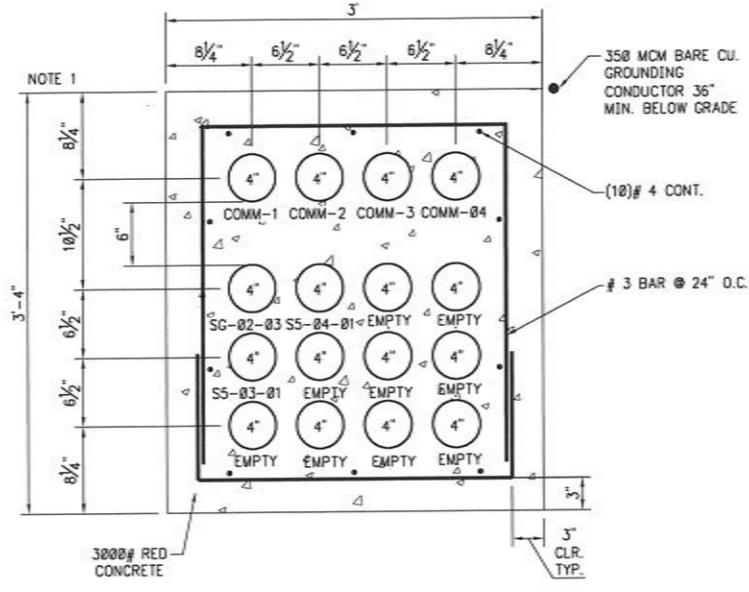
DESIGNED BY  
CAS  
DRAWN BY  
SS  
CHECKED BY  
CAS  
PROJECT ENGR  
C.S.

CONTAINER TERMINAL  
AT CHOCTAW POINT  
PAVEMENT, UTILITIES, AND GATE STRUCTURES  
UNDERGROUND CONDUIT DUCTBANK  
SECTIONS  
SHEET 1 OF 11

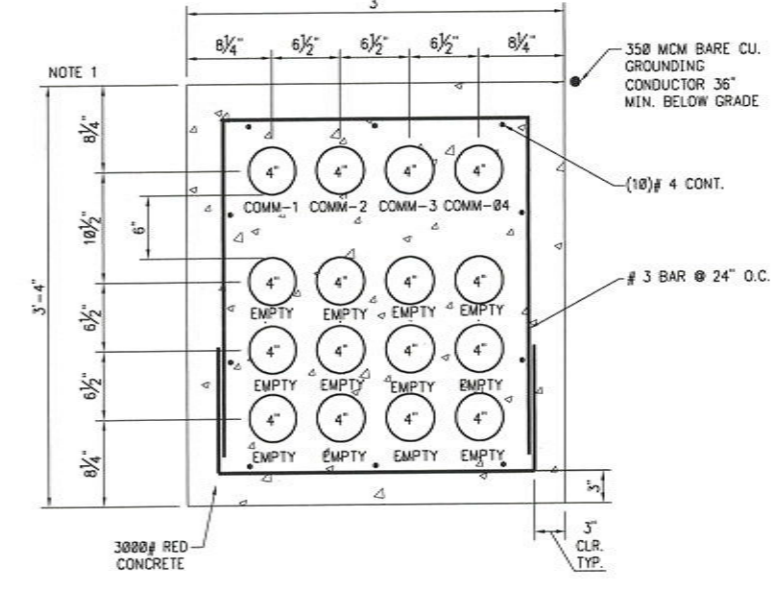
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DATE  
10/10/07  
REVISION  
2  
DRAWING NO.  
E-50



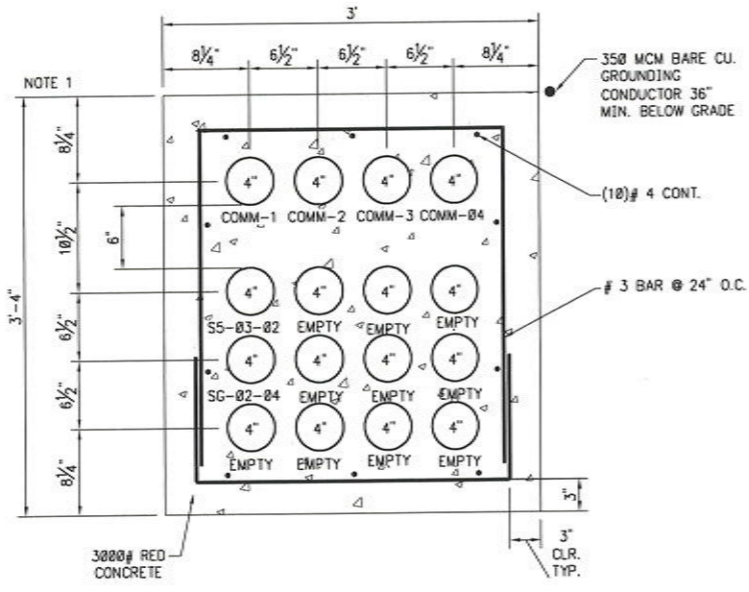
**G DUCTBANK SECTION VIEW**  
SCALE: 1 1/2"=1'-0"



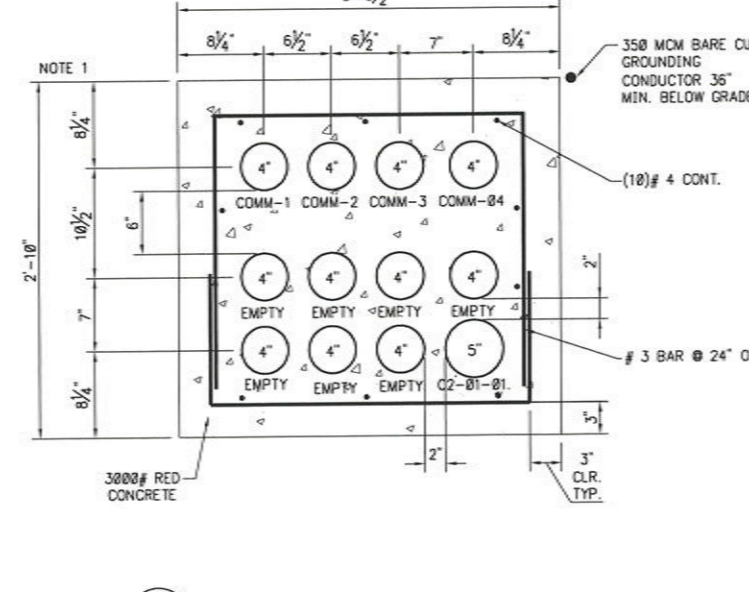
**H DUCTBANK SECTION VIEW**  
SCALE: 1 1/2"=1'-0"



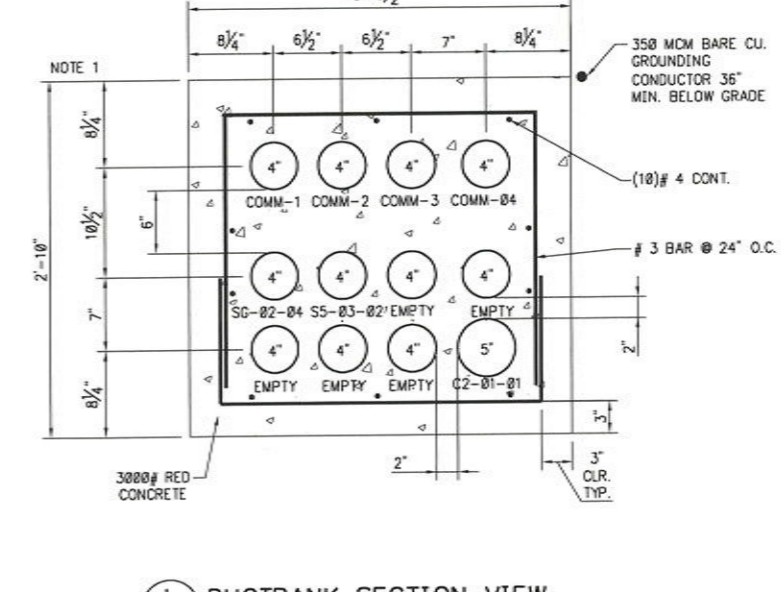
**I DUCTBANK SECTION VIEW**  
SCALE: 1 1/2"=1'-0"



**J DUCTBANK SECTION VIEW**  
SCALE: 1 1/2"=1'-0"



**K DUCTBANK SECTION VIEW**  
SCALE: 1 1/2"=1'-0"



**L DUCTBANK SECTION VIEW**  
SCALE: 1 1/2"=1'-0"



NOTES:  
1. DUCTBANKS SHALL BE MIN. OF 36" BELOW FINISHED GRADE. SEE DRAWINGS E-10 THRU E-15 FOR ACTUAL DUCTBANK ELEVATIONS AT MANHOLES. DUCTBANKS SHALL BE SLOPED AT 0.5% BACK TO MANHOLE TO INSURE PROPER DRAINAGE OF CONDUITS.

**AS-BUILT**  
JUNE 20, 2009

GRAPHIC SCALES  
CHECK BEFORE USE  
IF SHEET IS LESS THAN 24" X 36"  
IT IS A REDUCED PRINT. SCALE  
ACCORDINGLY

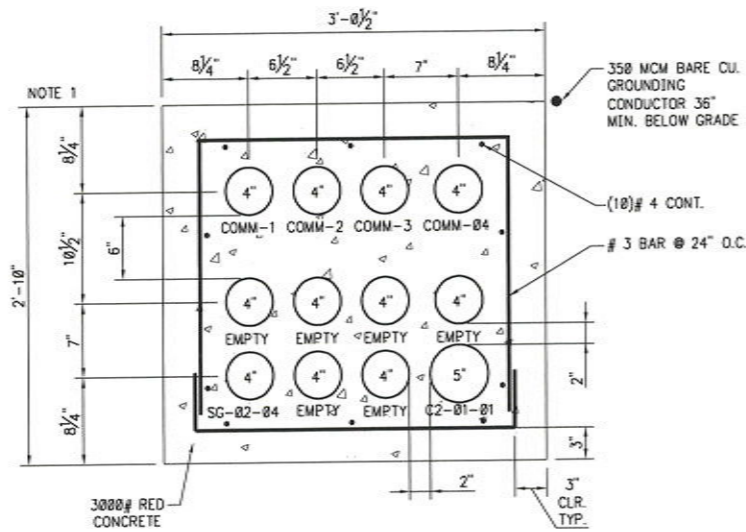
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2	AS-BUILT	6/20/09	RAA				



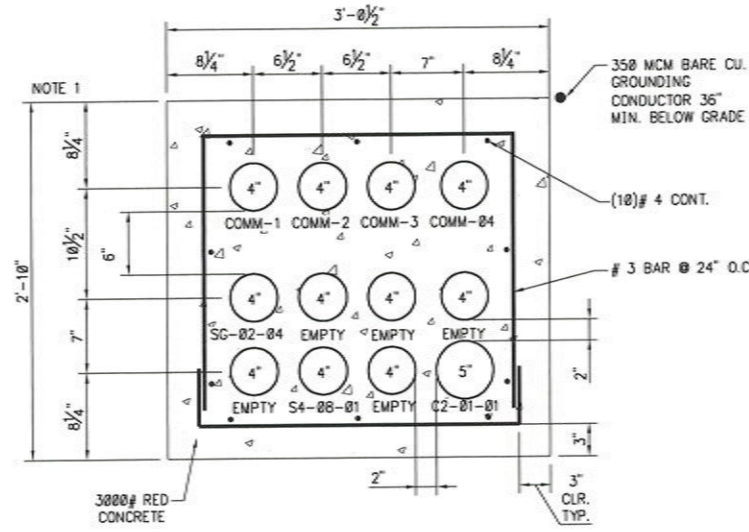
DESIGNED BY  
CAS  
DRAWN BY  
SS  
CHECKED BY  
CAS  
PROJECT ENGR  
C.S.

CONTAINER TERMINAL  
AT CHOCTAW POINT  
PAVEMENT, UTILITIES, AND GATE STRUCTURES  
UNDERGROUND CONDUIT DUCTBANK  
SECTIONS  
SHEET 2 OF 11

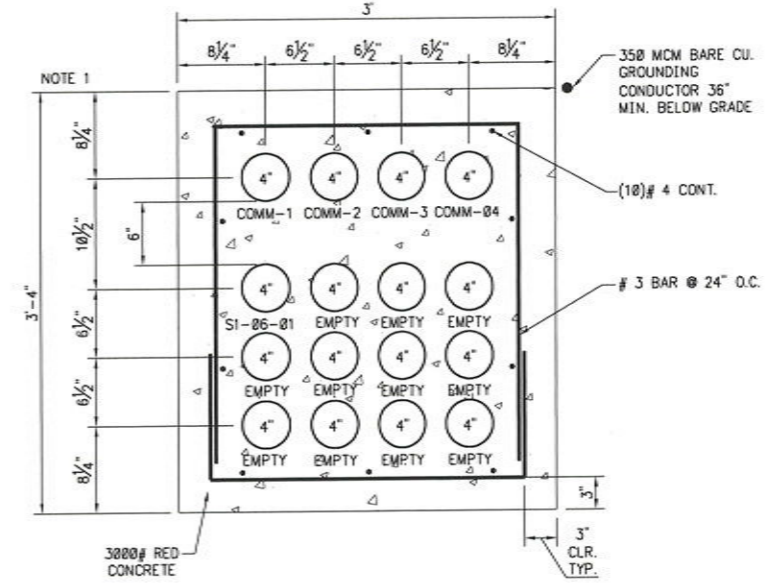
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DATE  
10/10/07  
REVISION  
2  
DRAWING NO.  
E-51



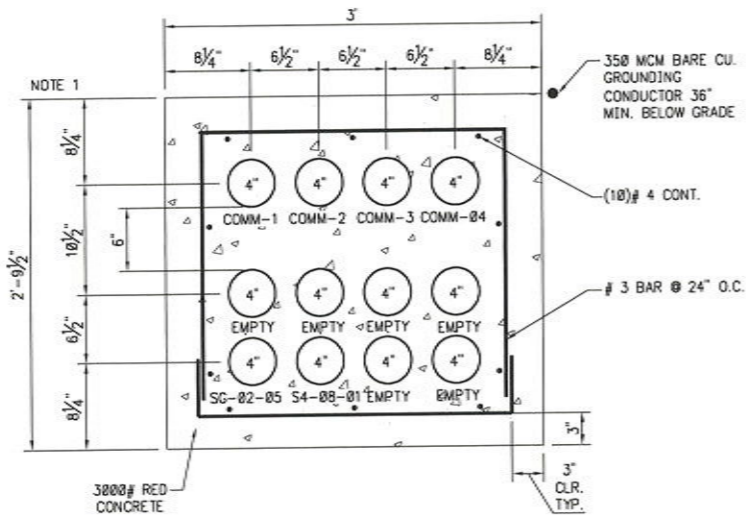
**M DUCTBANK SECTION VIEW**  
SCALE: 1 1/2"=1'-0"



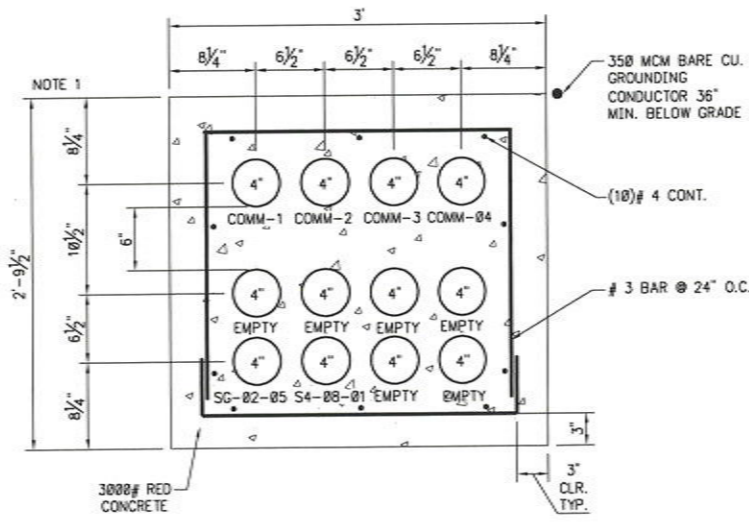
**N DUCTBANK SECTION VIEW**  
SCALE: 1 1/2"=1'-0"



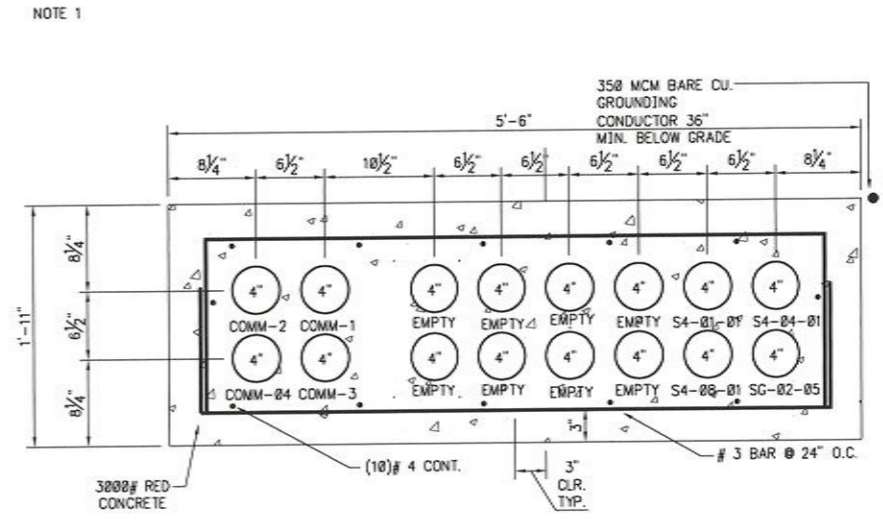
**O DUCTBANK SECTION VIEW**  
SCALE: 1 1/2"=1'-0"



**P DUCTBANK SECTION VIEW**  
SCALE: 1 1/2"=1'-0"



**Q DUCTBANK SECTION VIEW**  
SCALE: 1 1/2"=1'-0"



**R DUCTBANK SECTION VIEW**  
SCALE: 1 1/2"=1'-0"

NOTES:  
1. DUCTBANKS SHALL BE MIN. OF 36" BELOW FINISHED GRADE. SEE DRAWINGS E-10 THRU E-15 FOR ACTUAL DUCTBANK ELEVATIONS AT MANHOLES. DUCTBANKS SHALL BE SLOPED AT 0.5% BACK TO MANHOLE TO INSURE PROPER DRAINAGE OF CONDUITS.

1 1/2"=1'-0" 1 1/2 FT.

**AS-BUILT**

JUNE 20, 2009

GRAPHIC SCALES  
CHECK BEFORE USE

IF SHEET IS LESS THAN 24" X 36"  
IT IS A REDUCED PRINT. SCALE  
ACCORDINGLY

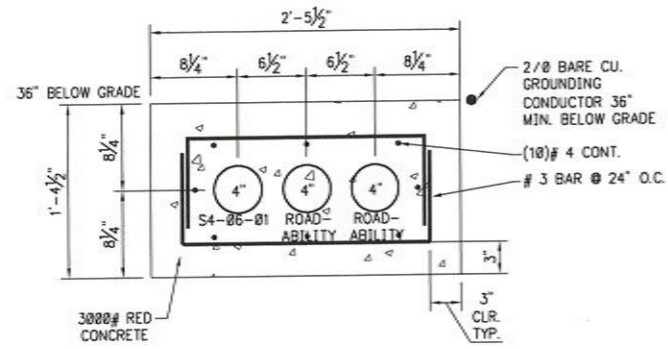
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3	AS-BUILT	6/28/09	RAA				



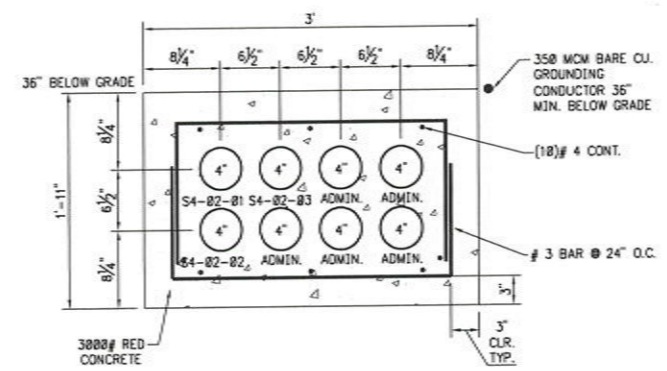
DESIGNED BY  
CAS  
DRAWN BY  
SS  
CHECKED BY  
CAS  
PROJECT ENGR  
C.S.

CONTAINER TERMINAL  
AT CHOCTAW POINT  
PAVEMENT, UTILITIES, AND GATE STRUCTURES  
UNDERGROUND CONDUIT DUCTBANK  
SECTIONS  
SHEET 3 OF 11

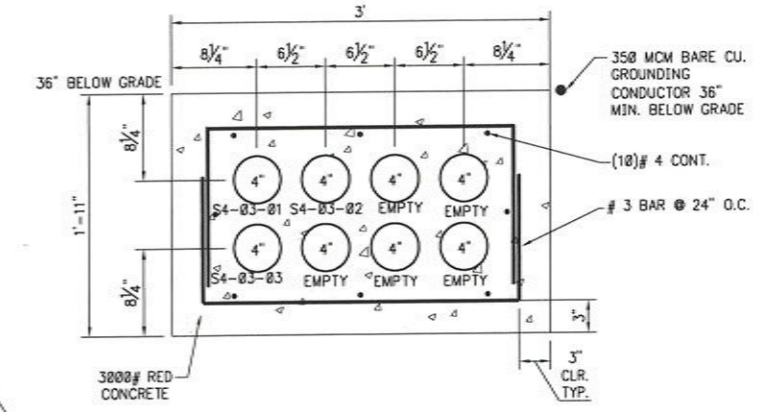
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DATE  
10/10/07  
DRAWING NO.  
E-52  
REVISION  
3



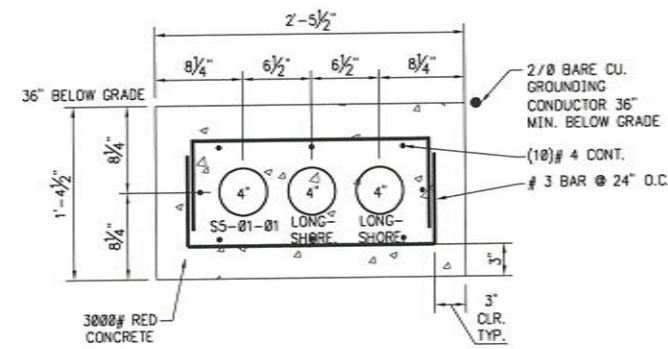
**RR DUCTBANK SECTION VIEW**  
SCALE: 1 1/2"=1'-0"



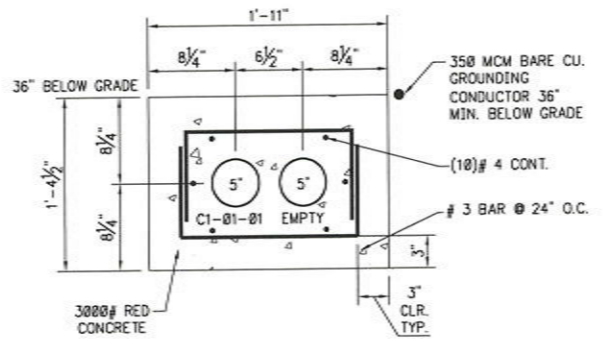
**SS DUCTBANK SECTION VIEW**  
SCALE: 1 1/2"=1'-0"



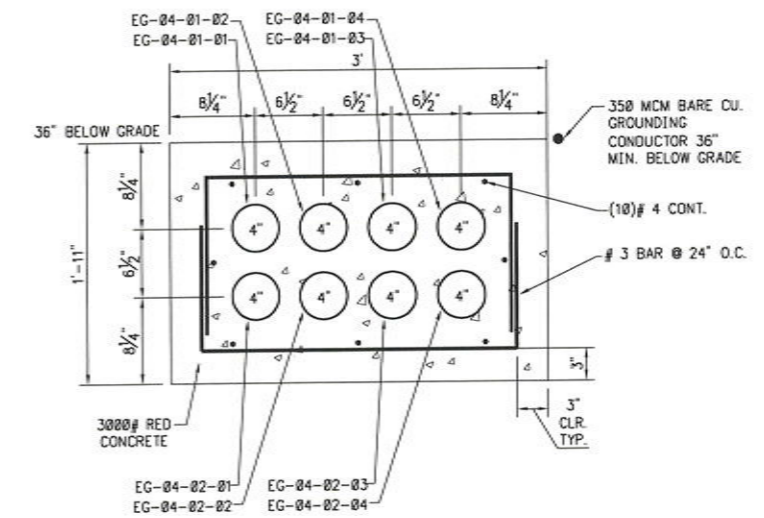
**TT DUCTBANK SECTION VIEW**  
SCALE: 1 1/2"=1'-0"



**UU DUCTBANK SECTION VIEW**  
SCALE: 1 1/2"=1'-0"



**VV DUCTBANK SECTION VIEW**  
SCALE: 1 1/2"=1'-0"



**WW DUCTBANK SECTION VIEW**  
SCALE: 1 1/2"=1'-0"



NOTES:  
1. ALL CONDUIT RUNS THAT ORIGINATE AT A MANHOLE SHALL BE SLOPED @ 0.5% BACK TO MANHOLE FOR DRAINING PURPOSES. AT NO POINT SHALL A DUCTBANK BE INSTALLED AT LESS THAN 36" BELOW GRADE.

**AS-BUILT**  
JUNE 20, 2009

GRAPHIC SCALES  
CHECK BEFORE USE  
IF SHEET IS LESS THAN 24" X 36"  
IT IS A REDUCED PRINT. SCALE  
ACCORDINGLY

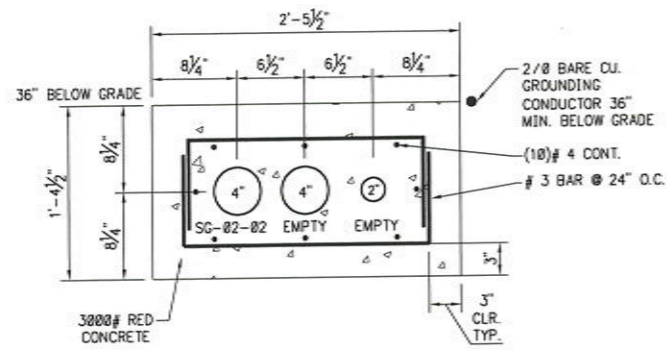
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2	REVISED FOR CHANGE	4-24-08	SS				
3	AS-BUILT	6/28/09	RAA				



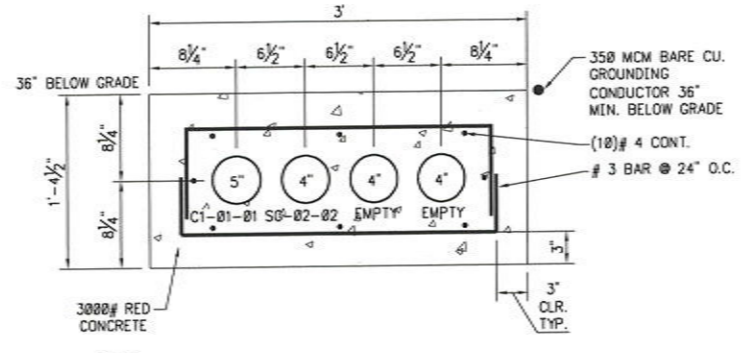
DESIGNED BY CAS
DRAWN BY SS
CHECKED BY CAS
PROJECT ENGR C.S.

CONTAINER TERMINAL  
AT CHOCTAW POINT  
PAVEMENT, UTILITIES, AND GATE STRUCTURES  
  
UNDERGROUND CONDUIT DUCTBANK  
SECTIONS  
SHEET 8 OF 11

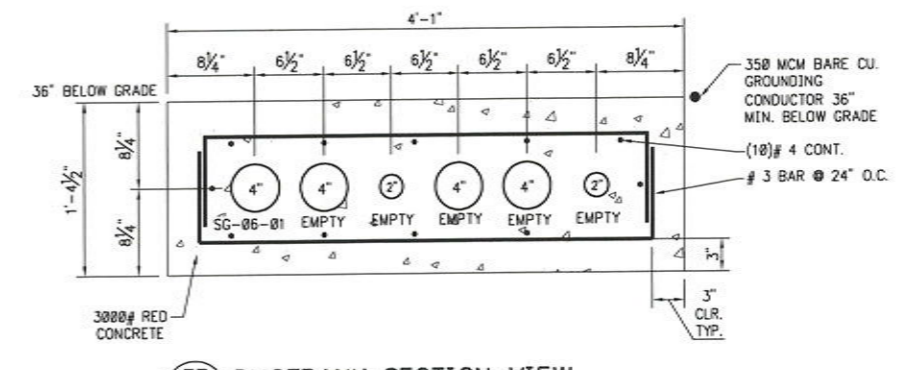
SCALE 1 1/2" = 1'-0"	REVISION 3
DATE 10/10/07	DRAWING NO. E-57



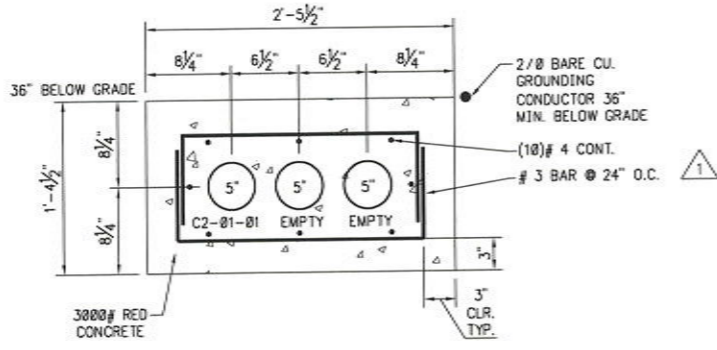
**XX DUCTBANK SECTION VIEW**  
SCALE: 1 1/2"=1'-0"



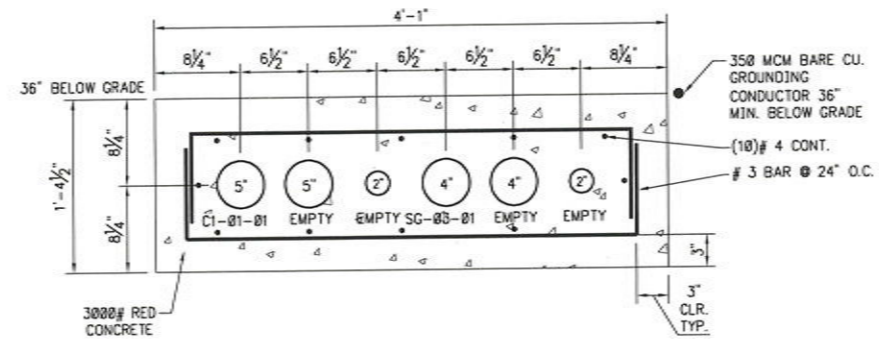
**YY DUCTBANK SECTION VIEW**  
SCALE: 1 1/2"=1'-0"



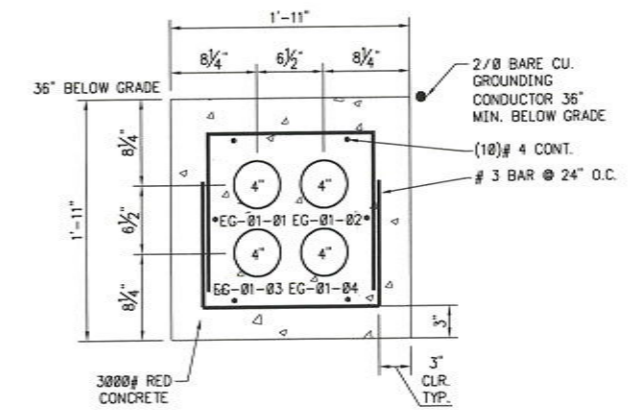
**ZZ DUCTBANK SECTION VIEW**  
SCALE: 1 1/2"=1'-0"



**AAA DUCTBANK SECTION VIEW**  
SCALE: 1 1/2"=1'-0"



**BBB DUCTBANK SECTION VIEW**  
SCALE: 1 1/2"=1'-0"



**CCC DUCTBANK SECTION VIEW**  
SCALE: 1 1/2"=1'-0"

NOTES:  
1. ALL CONDUIT RUNS THAT ORIGINATE AT A MANHOLE SHALL BE SLOPED @ 0.5% BACK TO MANHOLE FOR DRAINING PURPOSES. AT NO POINT SHALL A DUCTBANK BE INSTALLED AT LESS THAN 36" BELOW GRADE.

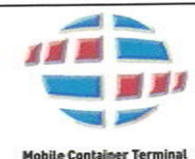


**AS-BUILT**  
JUNE 20, 2009

GRAPHIC SCALES  
CHECK BEFORE USE

IF SHEET IS LESS THAN 24" X 36"  
IT IS A REDUCED PRINT. SCALE  
ACCORDINGLY

NO.	DESCRIPTION	DATE	BY	NO.	DESCRIPTION	DATE	BY
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3	AS-BUILT	6/20/09	RAA				

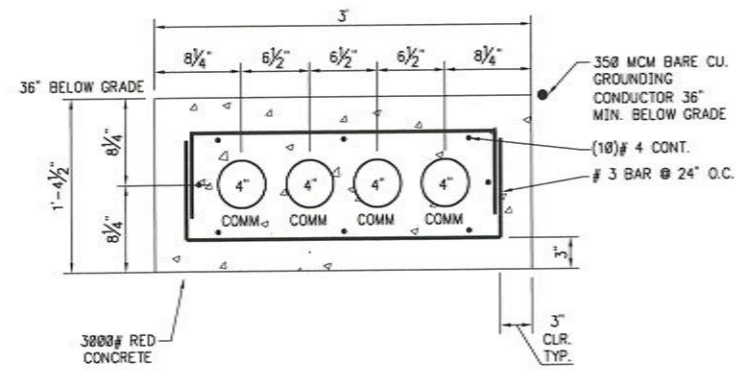


DESIGNED BY CAS
DRAWN BY SS
CHECKED BY CAS
PROJECT ENGR C.S.

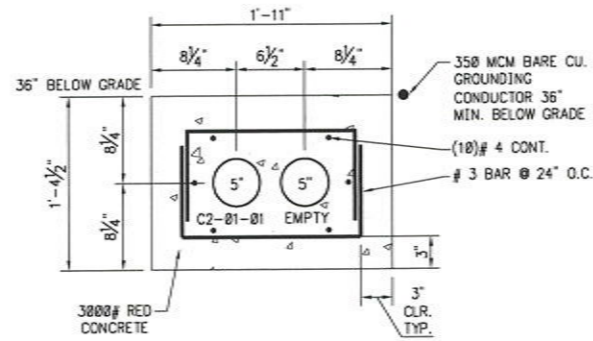
CONTAINER TERMINAL  
AT CHOCTAW POINT  
PAVEMENT, UTILITIES, AND GATE STRUCTURES  
  
UNDERGROUND CONDUIT DUCTBANK  
SECTIONS  
SHEET 9 OF 11

SCALE 1 1/2"=1'-0"	REVISION 3
DATE 10/10/07	DRAWING NO. E-58

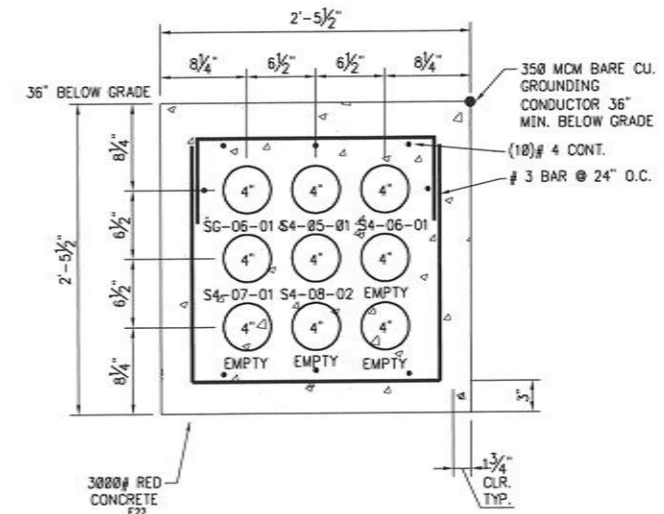




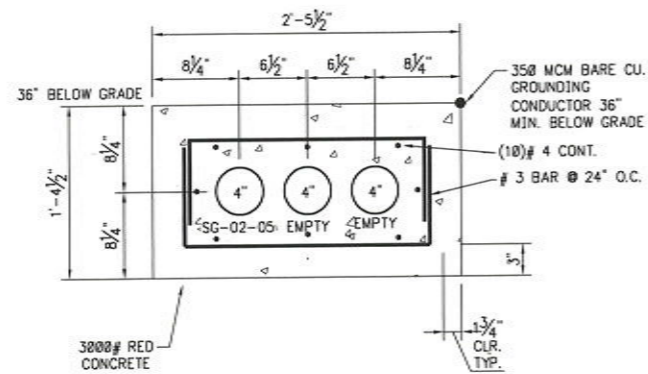
**DDD DUCTBANK SECTION VIEW**  
 SCALE: 1 1/2"=1'-0"



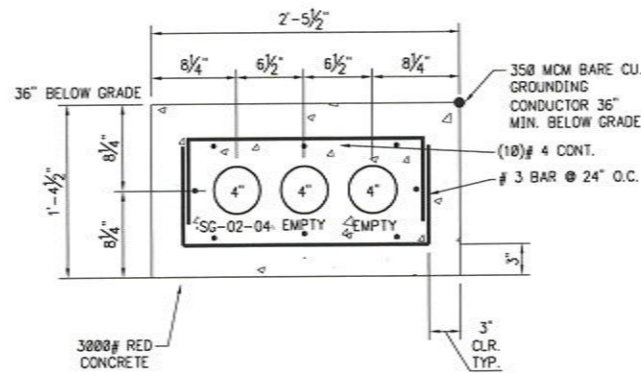
**EEE DUCTBANK SECTION VIEW**  
 SCALE: 1 1/2"=1'-0"



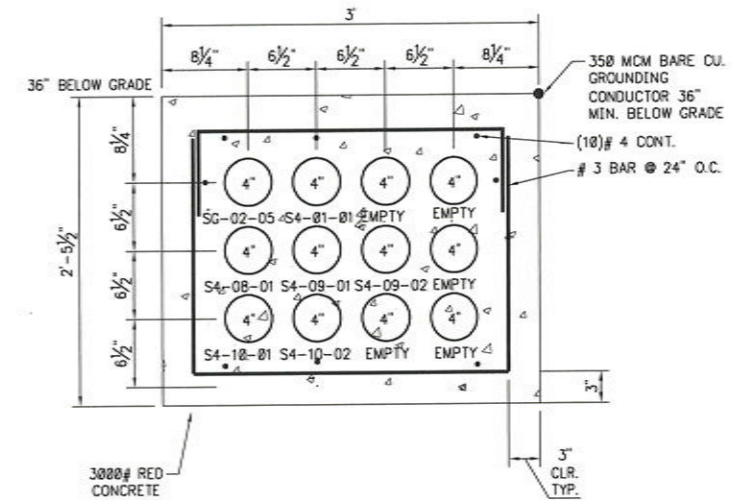
**FFF DUCTBANK SECTION VIEW**  
 SCALE: 1 1/2"=1'-0"



**GGG DUCTBANK SECTION VIEW**  
 SCALE: 1 1/2"=1'-0"



**HHH DUCTBANK SECTION VIEW**  
 SCALE: 1 1/2"=1'-0"



**III DUCTBANK SECTION VIEW**  
 SCALE: 1 1/2"=1'-0"

NOTES:  
 1. ALL CONDUIT RUNS THAT ORIGINATE AT A MANHOLE SHALL BE SLOPED @ 0.5% BACK TO MANHOLE FOR DRAINING PURPOSES. AT NO POINT SHALL A DUCTBANK BE INSTALLED AT LESS THAN 36" BELOW GRADE.

**AS-BUILT**

JUNE 20, 2009

1 1/2"=1'-0" 1 1/2 FT.

GRAPHIC SCALES  
 CHECK BEFORE USE

IF SHEET IS LESS THAN 24" X 36"  
 IT IS A REDUCED PRINT. SCALE  
 ACCORDINGLY

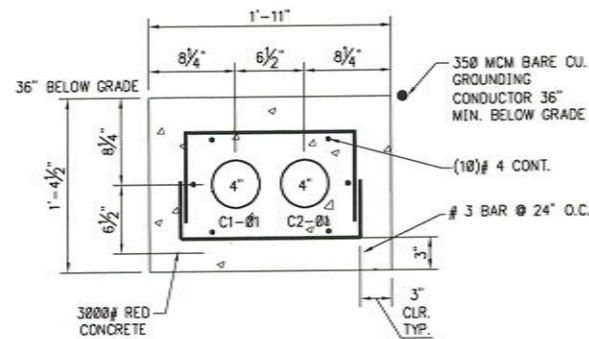
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2	REVISED FOR CHANGE	4/24/08	SS				
3	AS-BUILT	6/20/09	RAA				



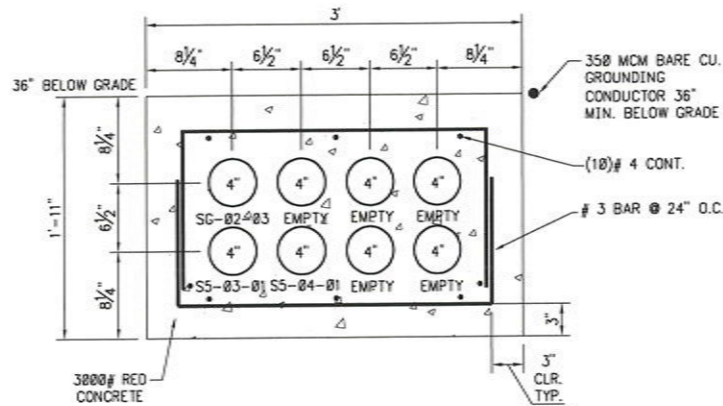
DESIGNED BY  
CAS  
 DRAWN BY  
SS  
 CHECKED BY  
CAS  
 PROJECT ENGR  
C.S.

CONTAINER TERMINAL  
 AT CHOCTAW POINT  
 PAVEMENT, UTILITIES, AND GATE STRUCTURES  
 UNDERGROUND CONDUIT DUCTBANK  
 SECTIONS  
 SHEET 10 OF 11

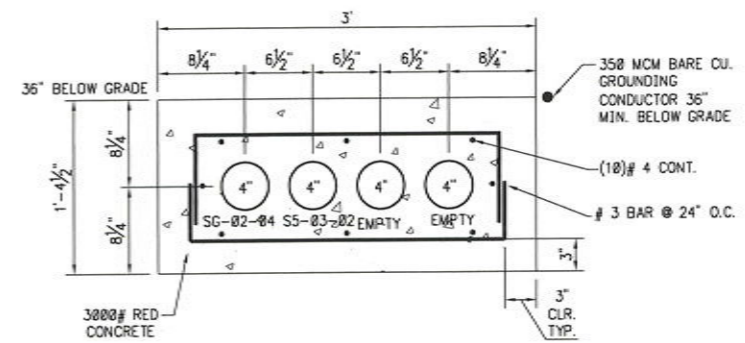
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 10/10/07  
 DRAWING NO.  
 E-59  
 REVISION  
 3



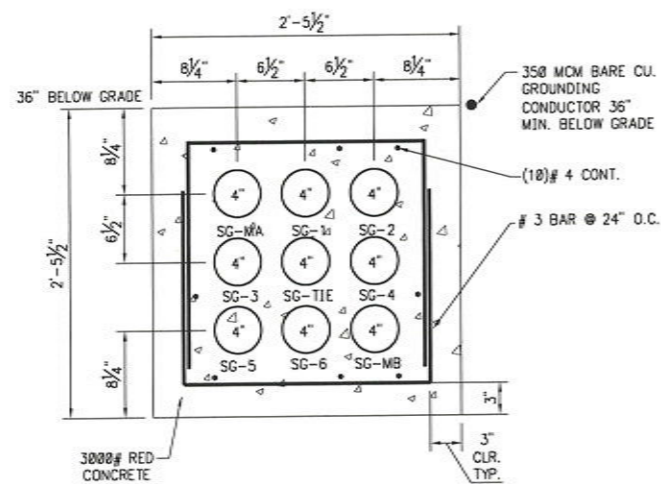
**JJJ DUCTBANK SECTION VIEW**  
SCALE: 1 1/2"=1'-0"  
E23



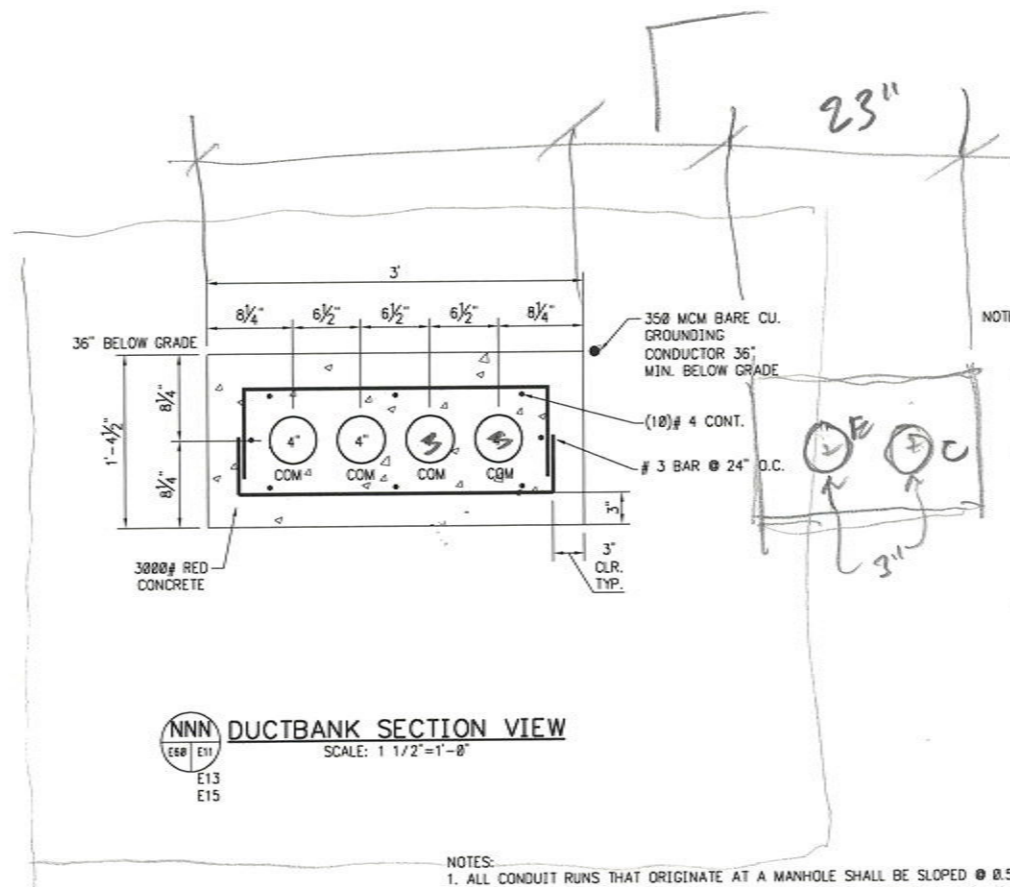
**KKK DUCTBANK SECTION VIEW**  
SCALE: 1 1/2"=1'-0"  
E22



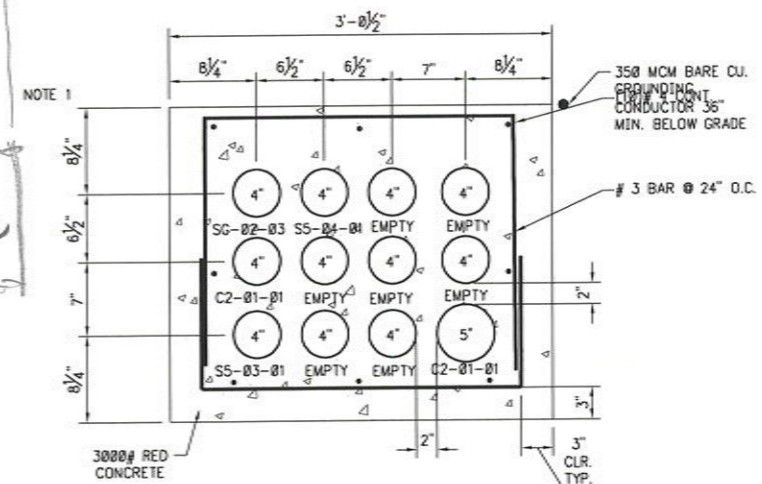
**LLL DUCTBANK SECTION VIEW**  
SCALE: 1 1/2"=1'-0"  
E22



**MMM DUCTBANK SECTION VIEW**  
SCALE: 1 1/2"=1'-0"  
E19



**NNN DUCTBANK SECTION VIEW**  
SCALE: 1 1/2"=1'-0"  
E13  
E15



**OOO DUCTBANK SECTION VIEW**  
SCALE: 1 1/2"=1'-0"  
E18

NOTES:  
1. ALL CONDUIT RUNS THAT ORIGINATE AT A MANHOLE SHALL BE SLOPED @ 0.5% BACK TO MANHOLE FOR DRAINING PURPOSES. AT NO POINT SHALL A DUCTBANK BE INSTALLED AT LESS THAN 36" BELOW GRADE.

**AS-BUILT**

JUNE 20, 2009

1 1/2" = 1'-0" 1 1/2 FT.

GRAPHIC SCALES  
CHECK BEFORE USE

IF SHEET IS LESS THAN 24" X 36"  
IT IS A REDUCED PRINT. SCALE  
ACCORDINGLY

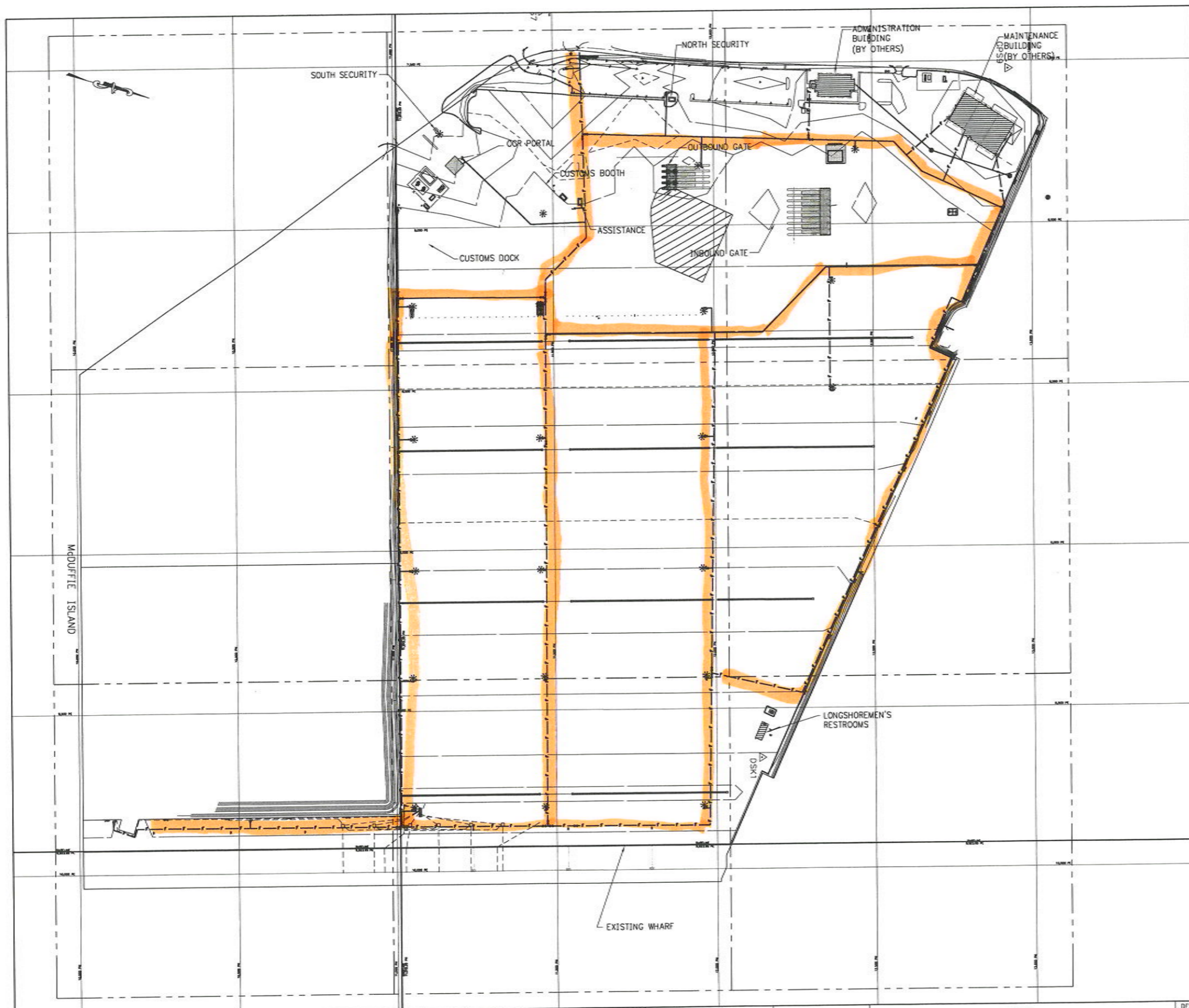
NO.	DESCRIPTION	DATE	BY	NO.	DESCRIPTION	DATE	BY
1	ADDED "CURRENT CONST" BLOCK	3/18/09	RAA				
2	AS-BUILT	6/28/09	RAA				



DESIGNED BY  
CAS  
DRAWN BY  
SS  
CHECKED BY  
CAS  
PROJECT ENGR  
C.S.

CONTAINER TERMINAL  
AT CHOCTAW POINT  
PAVEMENT, UTILITIES, AND GATE STRUCTURES  
UNDERGROUND CONDUIT DUCTBANK  
SECTIONS  
SHEET 11 OF 11

SCALE  
1 1/2" = 1'-0"  
DATE  
10/10/07  
REVISION  
2  
DRAWING NO.  
E-60



**LEGEND**

--- FIRE WATER MAIN

□ FIRE HYDRANT



GRAPHIC SCALES  
CHECK BEFORE USE

IF SHEET IS LESS THAN 24" X 36"  
IT IS A REDUCED PRINT. SCALE  
ACCORDINGLY

**AS-BUILT**  
JUNE 20, 2009

NO.	DESCRIPTION	DATE	BY	NO.	DESCRIPTION	DATE	BY
1	ADDED "CURRENT CONST" BLOCK	3/18/08	RAA				
2	AS-BUILT	6/20/09	RAA				

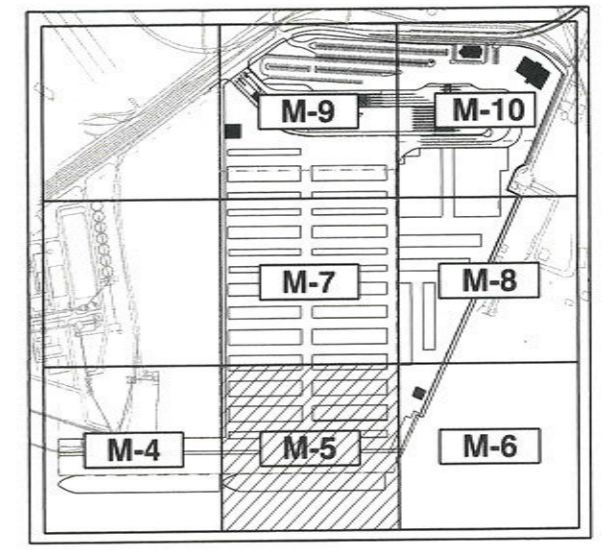
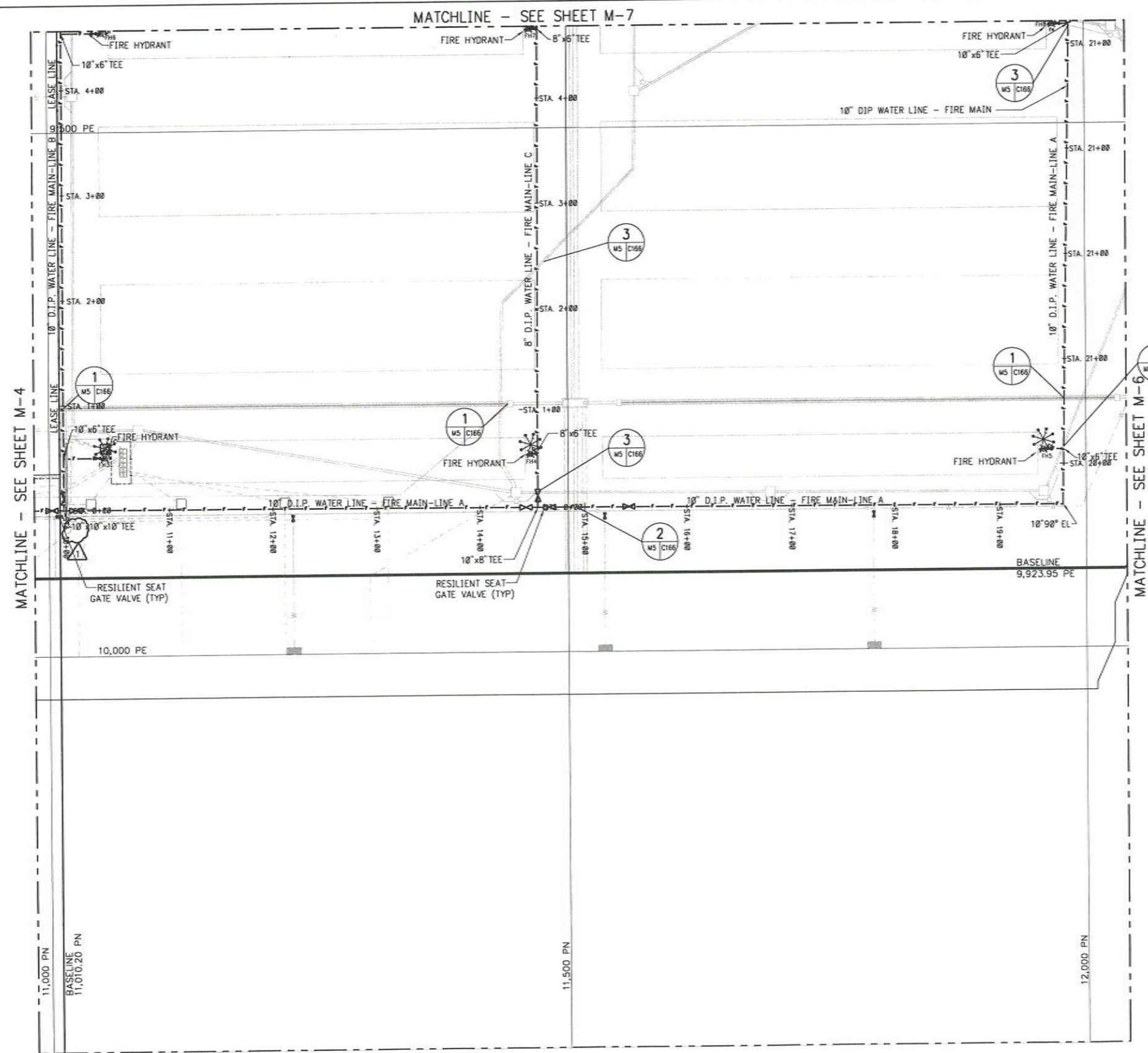


DESIGNED BY  
RAA  
DRAWN BY  
RBB  
CHECKED BY  
RAA  
PROJECT ENGR  
RAA

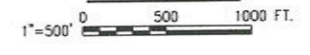
CONTAINER TERMINAL  
AT CHOCTAW POINT  
PAVEMENT, UTILITIES, AND GATE STRUCTURES

**OVERALL  
FIRE PLAN**

SCALE  
1"=150'  
DATE  
10/10/07  
REVISION  
**2**  
DRAWING NO.  
**M-3**



KEY PLAN



LEGEND

- FIRE WATER MAIN
- FIRE HYDRANT
- NODE
- ∇ RESILIENT GATE VALVE

NODE ID	PLANT EAST	PLANT NORTH
FH3	9810.14	11053.29
FH4	9810.24	11464.25
FH5	9810.13	11958.25
FH6	9405.36	11051.73
FH7	9405.24	11464.16
FH8	9405.12	11968.16



GRAPHIC SCALES  
CHECK BEFORE USE

IF SHEET IS LESS THAN 24" X 36"  
IT IS A REDUCED PRINT SCALE  
ACCORDINGLY

**AS-BUILT**  
JUNE 20, 2009

NO.	DESCRIPTION	DATE	BY	NO.	DESCRIPTION	DATE	BY
1	ADDED "CURRENT CONST" BLOCK	3/10/08	RAA				
2	AS-BUILT	6/28/09	RAA				



DESIGNED BY RBB
DRAWN BY RBB
CHECKED BY RAA
PROJECT ENGR RAA

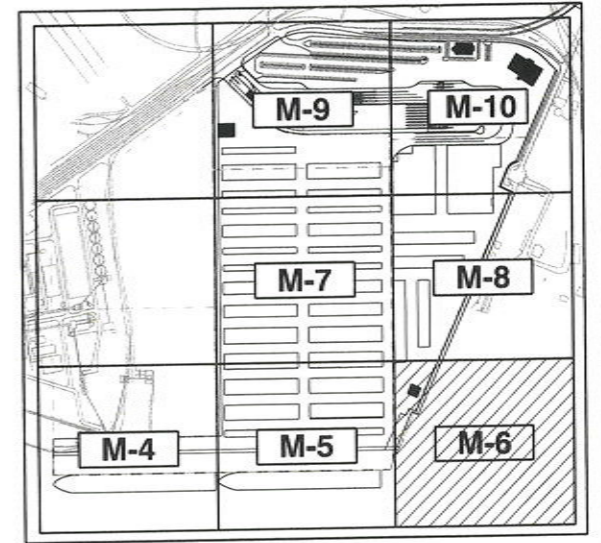
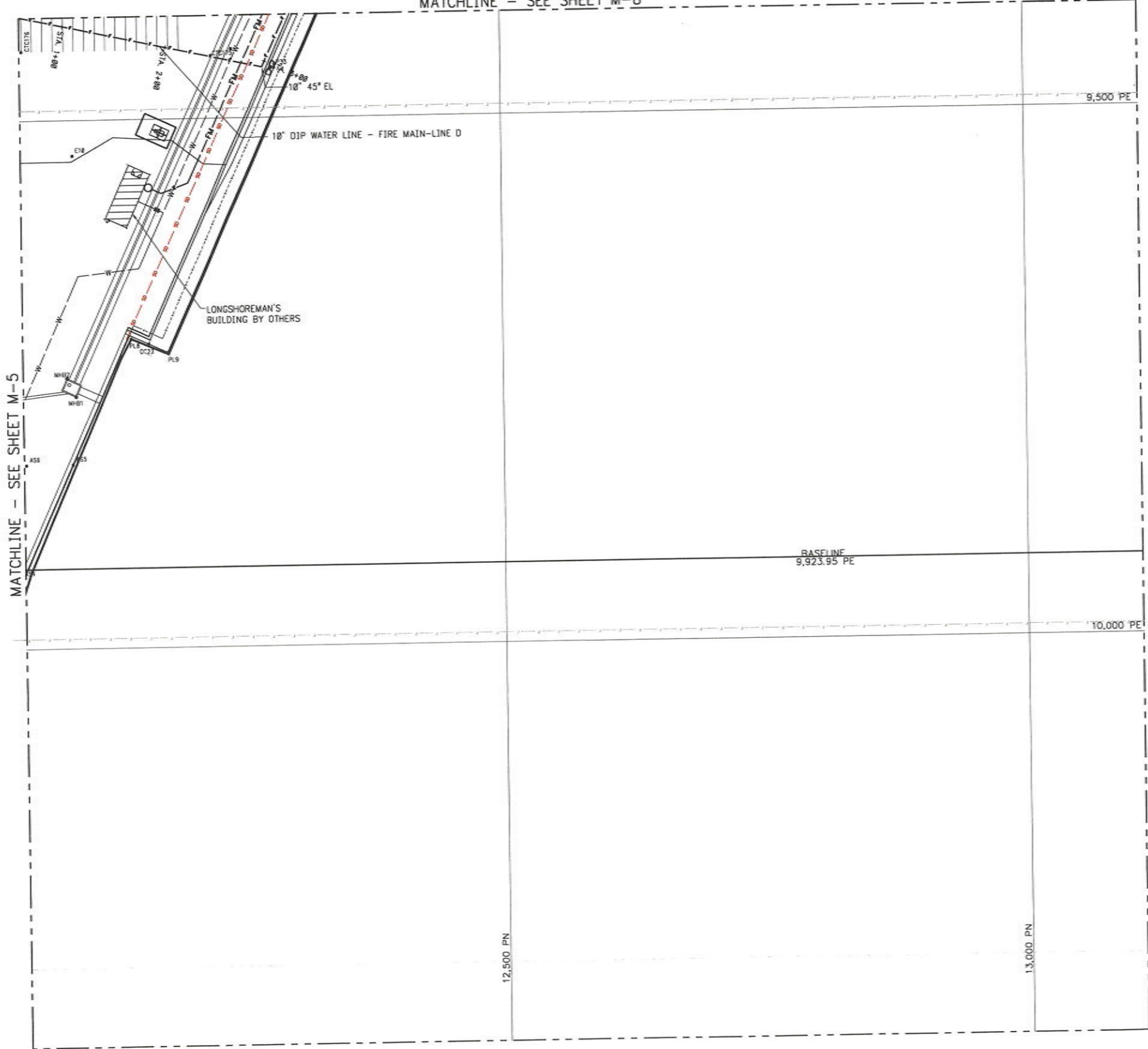
CONTAINER TERMINAL  
AT CHOCTAW POINT  
PAVEMENT, UTILITIES, AND GATE STRUCTURES

PARTIAL FIRE WATER  
PLAN SHEET 2 OF 7

SCALE	REVISION
1" = 50'-0"	2
DATE 10/10/07	

DRAWING NO.  
**M-5**

MATCHLINE - SEE SHEET M-8



**KEY PLAN**

1"=500' 0 500 1000 FT.

**LEGEND**

- FIRE WATER MAIN
- FIRE HYDRANT
- DOMESTIC WATER
- STORM DRAIN

1"=50' 0 50 100 FT.

GRAPHIC SCALES  
CHECK BEFORE USE

IF SHEET IS LESS THAN 24" X 36"  
IT IS A REDUCED PRINT. SCALE  
ACCORDINGLY

**AS-BUILT**

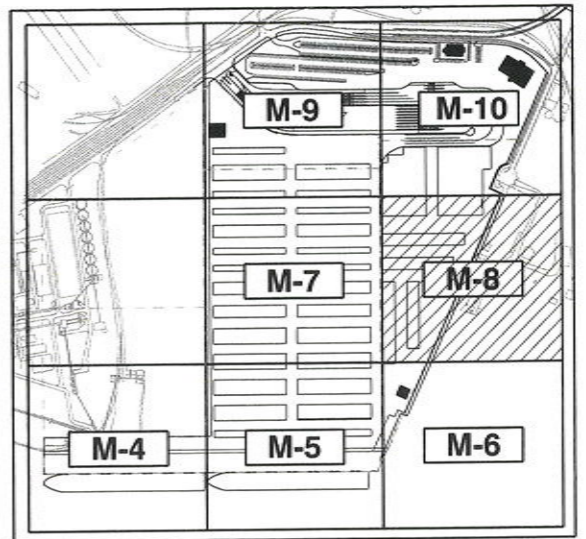
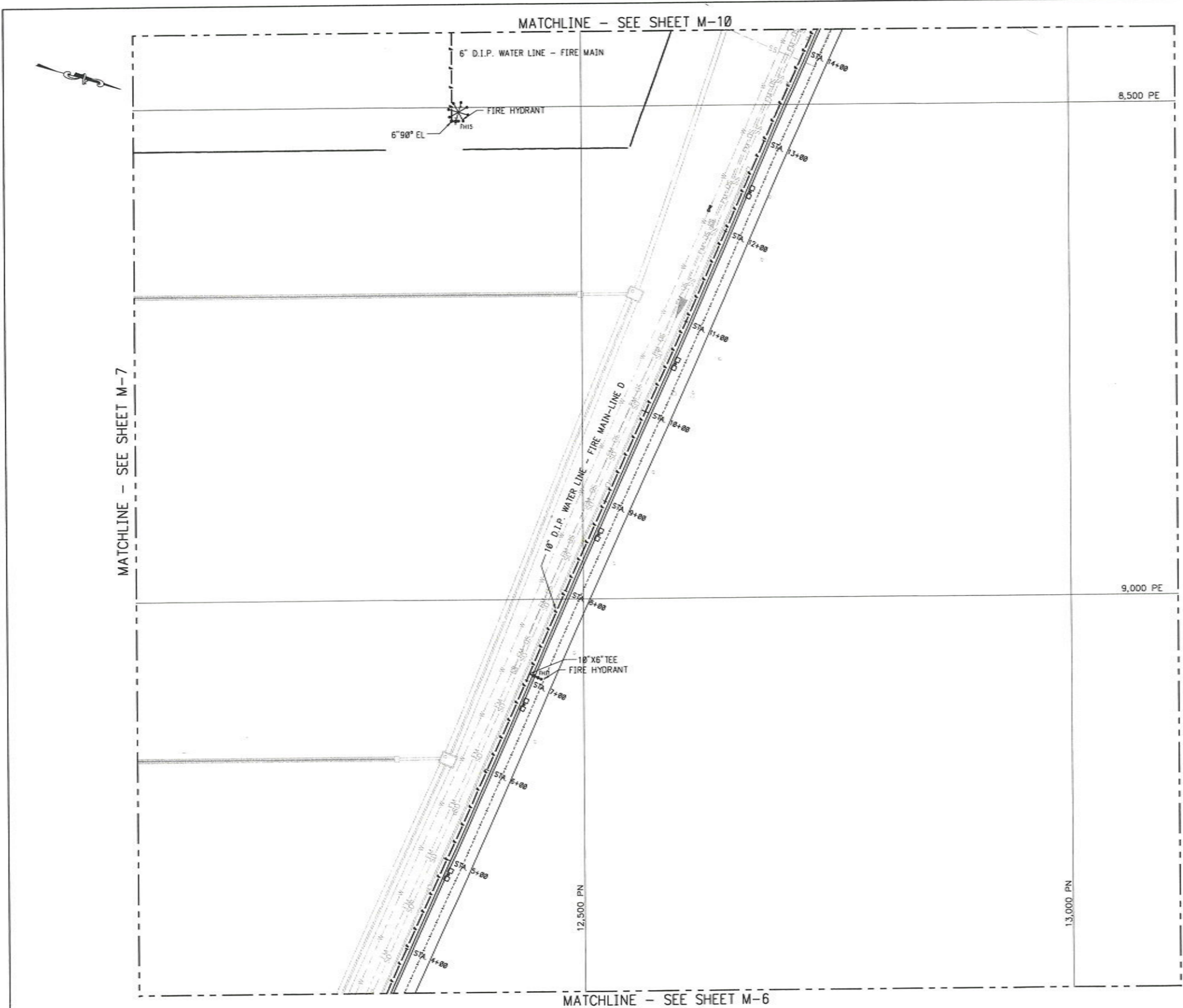
JUNE 20, 2009

DESIGNED BY RBB	CONTAINER TERMINAL AT CHOCTAW POINT PAVEMENT, UTILITIES, AND GATE STRUCTURES	SCALE 1" = 50'-0"	REVISION 2	
DRAWN BY RBB		DATE 10/10/07	DRAWING NO. M-6	
CHECKED BY RAA		PARTIAL FIRE WATER PLAN		
PROJECT ENGR RAA		SHEET 3 OF 7		

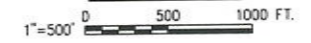
NO.	DESCRIPTION	DATE	BY	NO.	DESCRIPTION	DATE	BY
1	ADDED "CURRENT CONST" BLOCK	3/18/08	RAA				
2	AS-BUILT	6/20/09	RAA				



Mobile Container Terminal



**KEY PLAN**



**LEGEND**

- FIRE WATER MAIN
- STORM DRAIN
- DOMESTIC WATER
- RESILIENT GATE VALVE
- FIRE HYDRANT
- NODE

NODE ID	PLANT EAST	PLANT NORTH
FH11	9881.57	12455.55
FH15	8513.79	12372.75



**AS-BUILT**

JUNE 20, 2009

GRAPHIC SCALES  
CHECK BEFORE USE

IF SHEET IS LESS THAN 24" X 36"  
IT IS A REDUCED PRINT. SCALE  
ACCORDINGLY

NO.	DESCRIPTION	DATE	BY	NO.	DESCRIPTION	DATE	BY
1	ADDED "CURRENT CONST" BLOCK	3/18/08	RAA				
2	AS-BUILT	6/28/09	RAA				



DESIGNED BY  
RBB  
DRAWN BY  
RBB  
CHECKED BY  
RAA  
PROJECT ENGR  
RAA

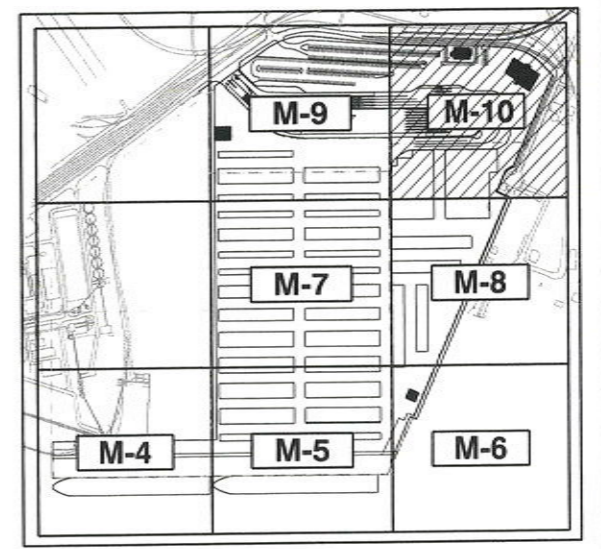
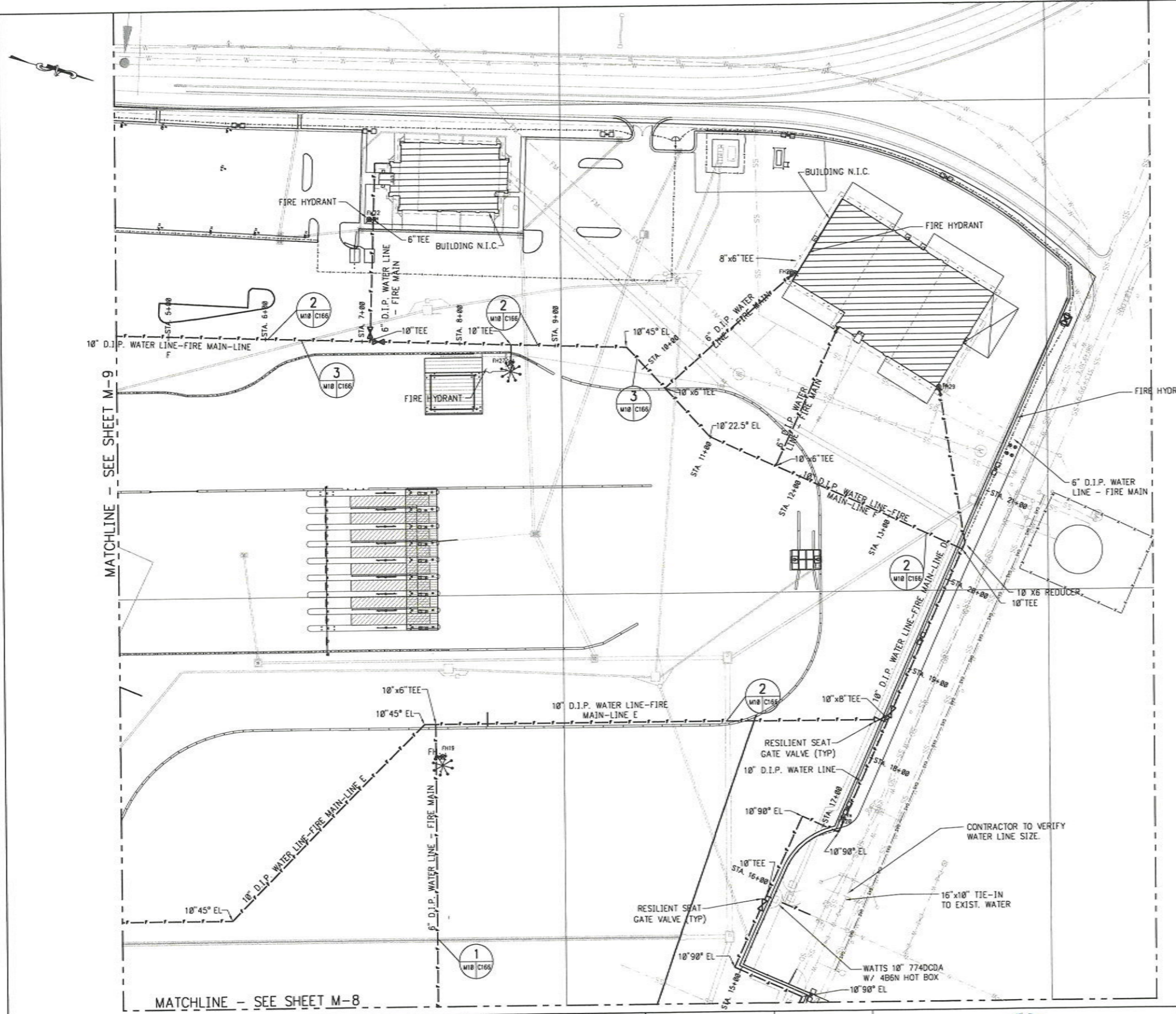
CONTAINER TERMINAL  
AT CHOCTAW POINT  
PAVEMENT, UTILITIES, AND GATE STRUCTURES

PARTIAL FIRE WATER  
PLAN SHEET 5 OF 7

SCALE  
1" = 50'-0"  
DATE  
10/10/07

REVISION  
2

DRAWING NO.  
M-8



**KEY PLAN**  
 1"=500'  
 0 500 1000 FT.

**LEGEND**

- FIRE WATER MAIN
- DOMESTIC WATER
- - - STORM DRAIN
- - - SANITARY SEWER
- FIRE HYDRANT
- ⊗ RESILIENT GATE VALVE

NODE ID	PLANT EAST	PLANT NORTH
FH19	8165.29	12372.68
FH20	8232.50	12785.51
FH22	7614.48	12302.28
FH27	7762.22	12447.69
FH28	7653.33	12751.44
FH29	7826.48	12978.53

1"=50'  
 0 50 100 FT.

**AS-BUILT**  
 JUNE 20, 2009

GRAPHIC SCALES  
 CHECK BEFORE USE  
 IF SHEET IS LESS THAN 24" X 36"  
 IT IS A REDUCED PRINT. SCALE  
 ACCORDINGLY

NO.	DESCRIPTION	DATE	BY	NO.	DESCRIPTION	DATE	BY
1	MOVED BACKFLOW PREVENTOR AND DOMESTIC AND IRRIGATION TAPS	2/11/08	RAA				
2	REVISED FIRE LINE ADDED "CURRENT CONST" BLOCK	3/10/08	RAA				
3	AS-BUILT	6/20/09	RAA				



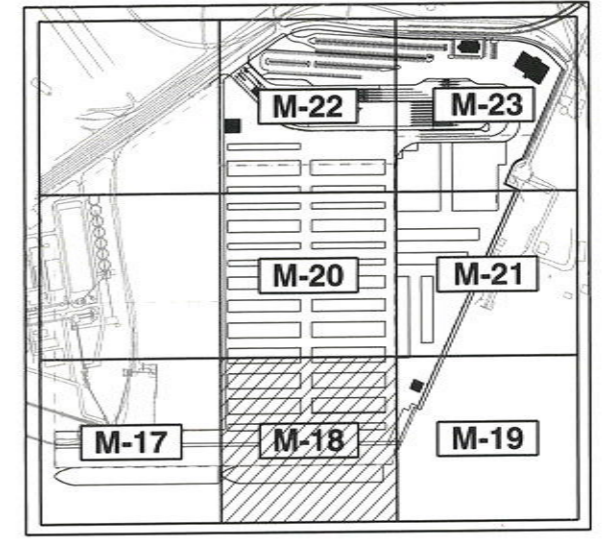
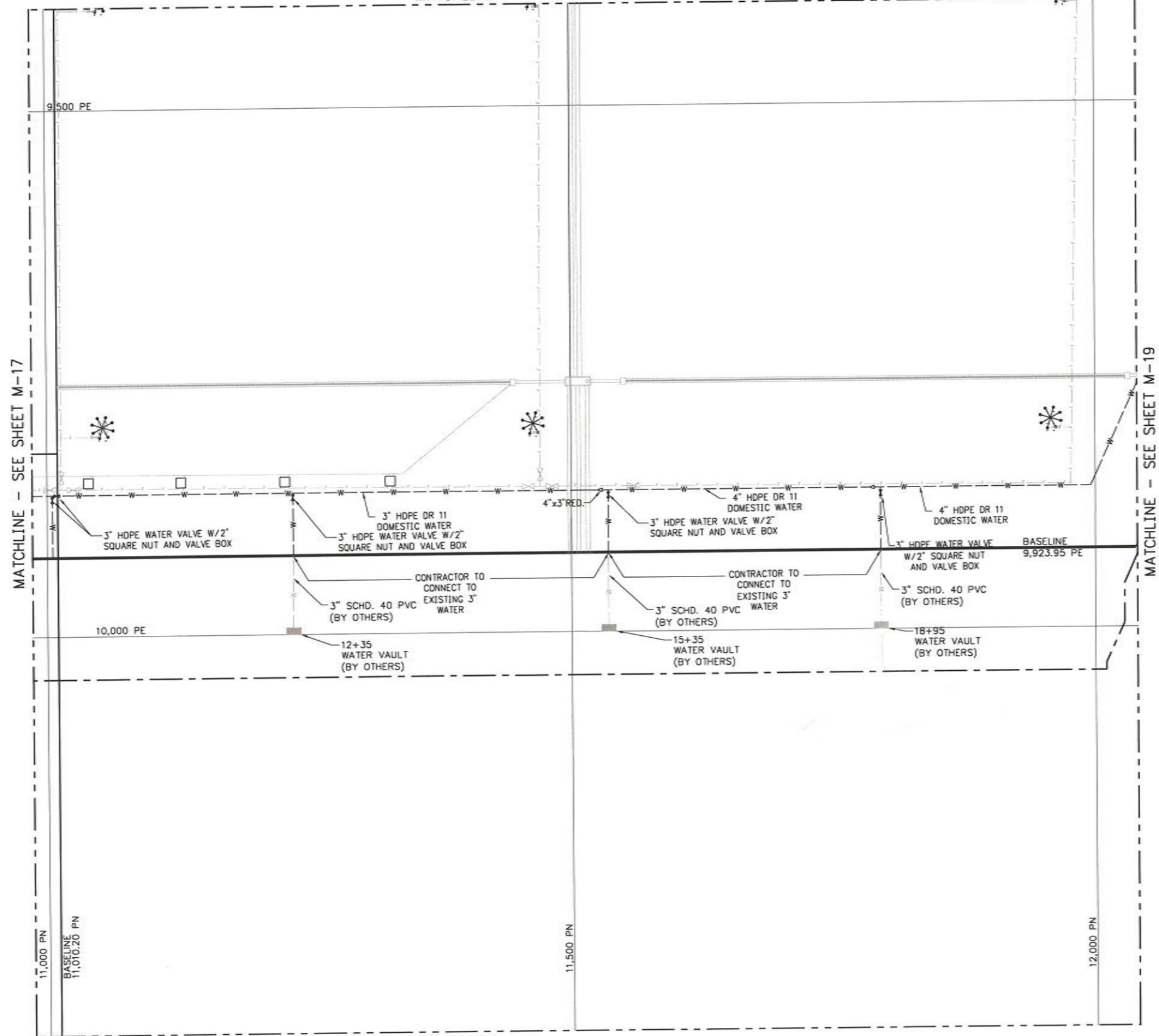
DESIGNED BY  
RBB  
 DRAWN BY  
RBB  
 CHECKED BY  
RAA  
 PROJECT ENGR  
RAA

CONTAINER TERMINAL  
 AT CHOCTAW POINT  
 PAVEMENT, UTILITIES, AND GATE STRUCTURES

PARTIAL FIRE WATER  
 PLAN SHEET 7 OF 7

SCALE  
 1" = 50'-0"  
 DATE  
 10/10/07  
 REVISION  
 3  
 DRAWING NO.  
 M-10

MATCHLINE - SEE SHEET M-20



**KEY PLAN**  
1" = 500' 0 500 1000 FT.

**LEGEND**

- SS EX GRAVITY SANITARY SEWER
- EX EX DOMESTIC WATER LINE
- SS GRAVITY SANITARY SEWER LINE
- W DOMESTIC WATER LINE
- FM FORCE MAIN
- FM MAWSS EXISTING FORCE MAIN
- M MANHOLE
- FIRE HYDRANT

1" = 50' 0 50 100 FT.

**AS-BUILT**  
JUNE 20, 2009

GRAPHIC SCALES  
CHECK BEFORE USE

IF SHEET IS LESS THAN 24" X 36"  
IT IS A REDUCED PRINT SCALE  
ACCORDINGLY

NO.	DESCRIPTION	DATE	BY	NO.	DESCRIPTION	DATE	BY
1	CHANGED SDR 13.5 TO SDR 11 EXTEND DOM. WATER ADDED "CURRENT CONST" BLOCK	3/10/08	RAA				
2	AS-BUILT	6/28/09	RAA				



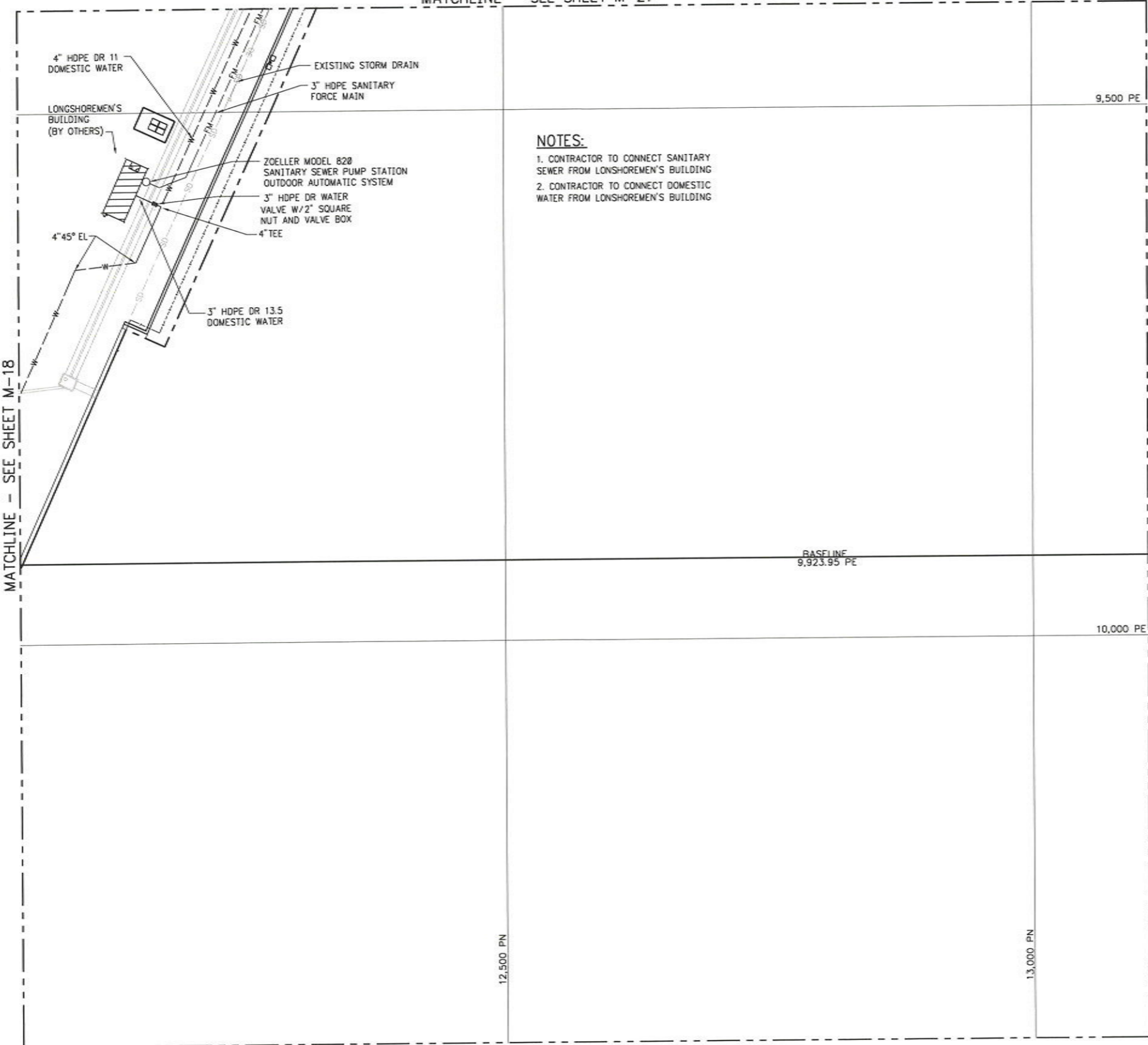
DESIGNED BY  
RBB  
DRAWN BY  
RBB  
CHECKED BY  
RAA  
PROJECT ENGR  
RAA

CONTAINER TERMINAL  
AT CHOCTAW POINT  
PAVEMENT, UTILITIES, AND GATE STRUCTURES  
  
PARTIAL DOMESTIC UTILITY PLAN  
SHEET 2 OF 7

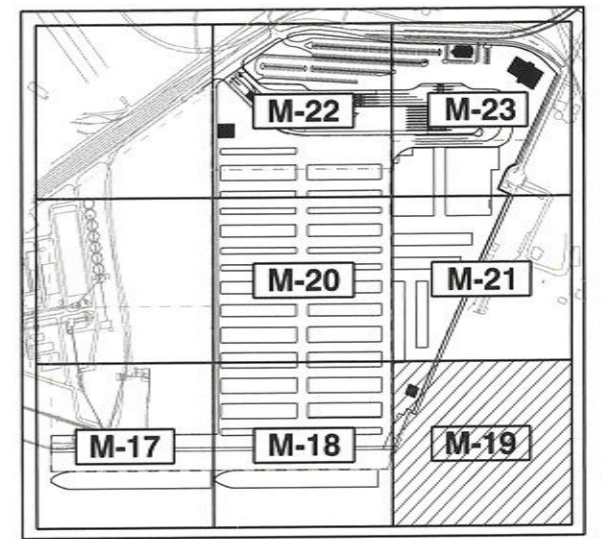
SCALE  
1" = 50'-0"  
DATE  
10/10/07  
REVISION  
2  
DRAWING NO.  
M-18



MATCHLINE - SEE SHEET M-21



**NOTES:**  
 1. CONTRACTOR TO CONNECT SANITARY SEWER FROM LONSHOREMEN'S BUILDING  
 2. CONTRACTOR TO CONNECT DOMESTIC WATER FROM LONSHOREMEN'S BUILDING



**KEY PLAN**  
 1"=500'  
 0 500 1000 FT.

**LEGEND**

- SS--- EX GRAVITY SANITARY SEWER
- W--- EX DOMESTIC WATER LINE
- SS--- GRAVITY SANITARY SEWER LINE
- W--- DOMESTIC WATER LINE
- FM--- FORCE MAIN
- FM--- MAWSS EXISTING FORCE MAIN
- ⊙ MANHOLE
- FIRE HYDRANT

1"=50'  
 0 50 100 FT.

**AS-BUILT**  
 JUNE 20, 2009

GRAPHIC SCALES  
 CHECK BEFORE USE  
 IF SHEET IS LESS THAN 24" X 36"  
 IT IS A REDUCED PRINT. SCALE  
 ACCORDINGLY

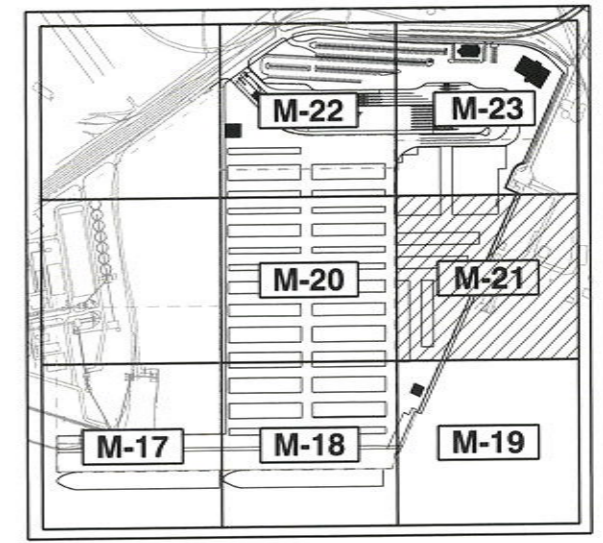
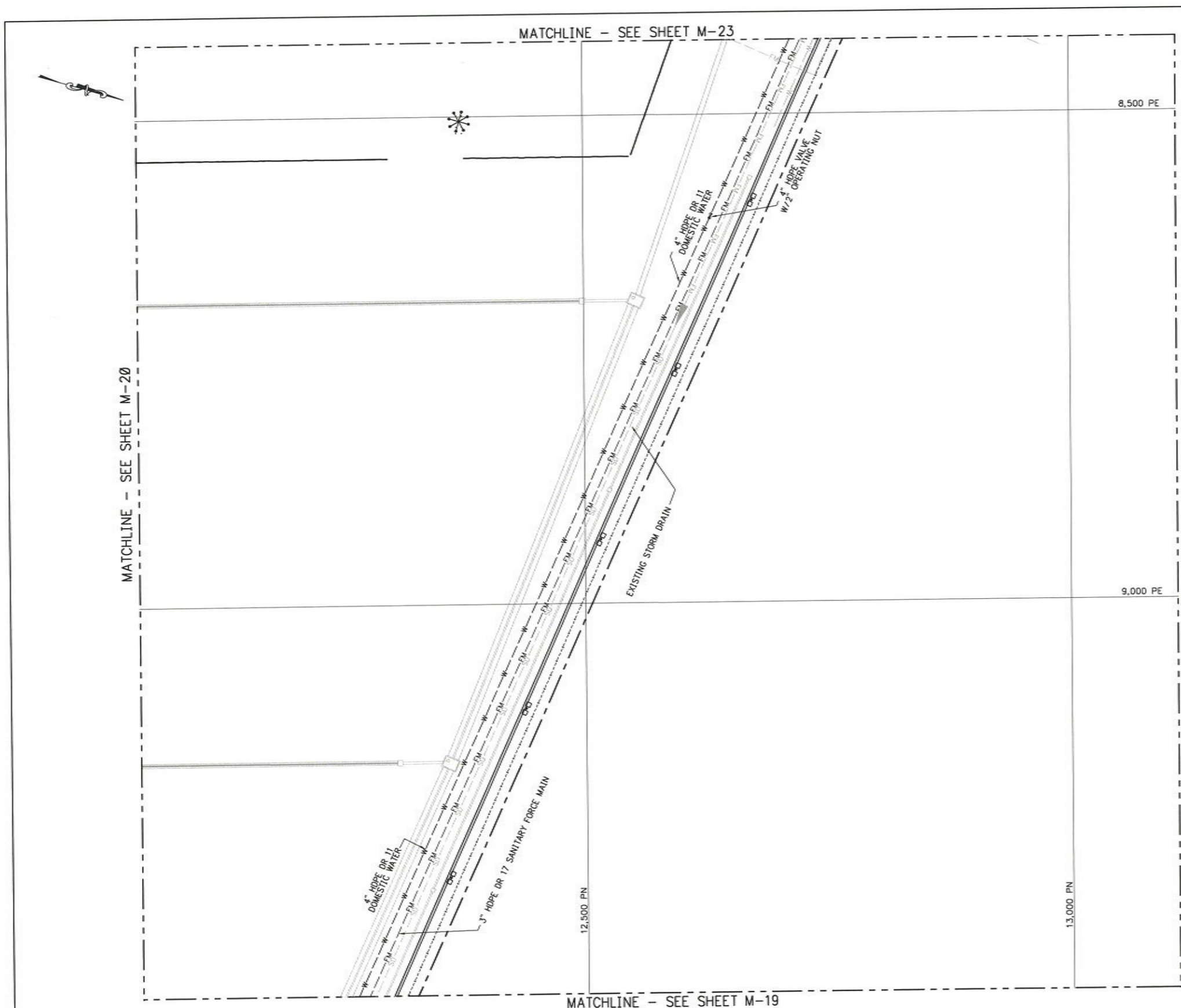
NO.	DESCRIPTION	DATE	BY	NO.	DESCRIPTION	DATE	BY
1	CHANGED SDR 13.5 TO SDR 11 PER CONTRACTOR ADDED "CURRENT CONST" BLOCK	3/18/08	RAA				
2	AS-BUILT	6/20/09	RAA				



DESIGNED BY  
 RBB  
 DRAWN BY  
 RBB  
 CHECKED BY  
 RAA  
 PROJECT ENGR  
 RAA

CONTAINER TERMINAL  
 AT CHOCTAW POINT  
 PAVEMENT, UTILITIES, AND GATE STRUCTURES  
 PARTIAL DOMESTIC UTILITY PLAN  
 SHEET 3 OF 7

SCALE  
 1" = 50'-0"  
 DATE  
 10/10/07  
 REVISION  
 2  
 DRAWING NO.  
 M-19



**LEGEND**

- SS — EX GRAVITY SANITARY SEWER
- W — EX DOMESTIC WATER LINE
- SS — GRAVITY SANITARY SEWER LINE
- W — DOMESTIC WATER LINE
- FM — FORCE MAIN
- FM — MAWSS EXISTING FORCE MAIN
- ⊙ — MANHOLE
- — FIRE HYDRANT

**AS-BUILT**

JUNE 20, 2009

1" = 50'

0 50 100 FT.

GRAPHIC SCALES  
CHECK BEFORE USE

IF SHEET IS LESS THAN 24" X 36"  
IT IS A REDUCED PRINT. SCALE  
ACCORDINGLY

NO.	DESCRIPTION	DATE	BY	NO.	DESCRIPTION	DATE	BY
1	CHANGED 6" SDR 13.5 TO 4" SDR 11 ADDED "CURRENT CONST" BLOCK	5/18/08	RAA				
2	AS-BUILT	5/28/09	RAA				

**HPA**

**GSE**  
GULF STATES ENGINEERING  
Civil Engineering  
4110 Wetzel Road  
Mobile, AL 36618  
(251) 490-4646

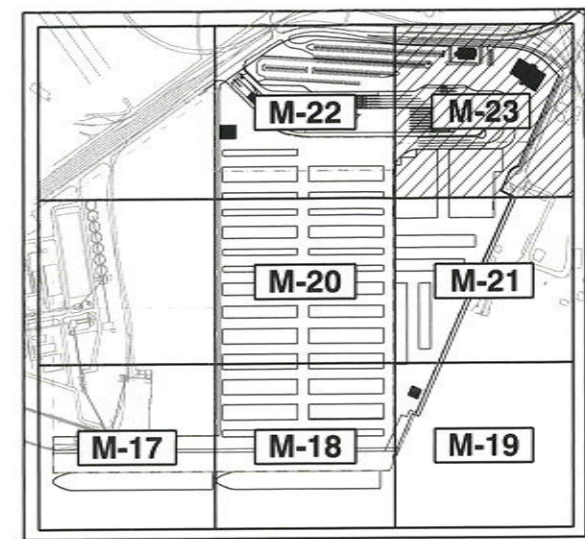
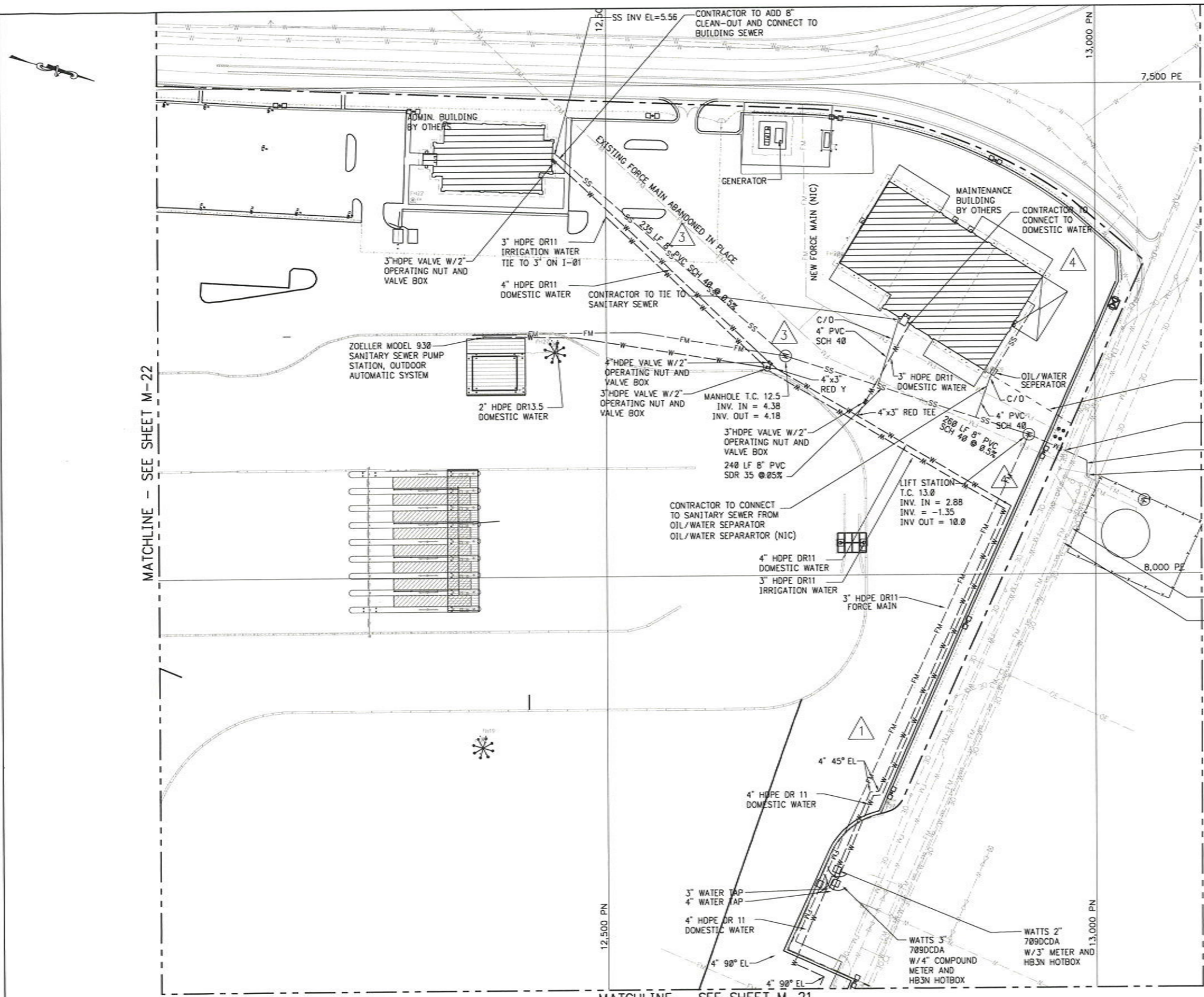
Mobile Container Terminal

DESIGNED BY	999
DRAWN BY	999
CHECKED BY	RAA
PROJECT ENGR	RAA

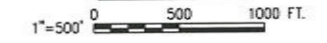
CONTAINER TERMINAL  
AT CHOCTAW POINT  
PAVEMENT, UTILITIES, AND GATE STRUCTURES

PARTIAL DOMESTIC UTILITY PLAN  
SHEET 5 OF 7

SCALE	1" = 50'-0"	REVISION	2
DATE	10/10/07	DRAWING NO.	M-21



**KEY PLAN**



**LEGEND**

- SS EX GRAVITY SANITARY SEWER
- EX DOMESTIC WATER LINE
- SS GRAVITY SANITARY SEWER LINE
- W DOMESTIC WATER LINE
- FM FORCE MAIN
- FM MAWSS EXISTING FORCE MAIN
- EXISTING GAS LINE
- M MANHOLE
- FH FIRE HYDRANT



**AS-BUILT**  
JUNE 20, 2009

GRAPHIC SCALES  
CHECK BEFORE USE  
IF SHEET IS LESS THAN 24" X 36"  
IT IS A REDUCED PRINT SCALE  
ACCORDINGLY

NO.	DESCRIPTION	DATE	BY	NO.	DESCRIPTION	DATE	BY
1	REVISED DOMESTIC AND IRRIGATION TAPS AND LINES	2/11/08	RAA	5	AS-BUILT	5/28/09	RAA
2	CHANGED SDR 13.5 TO SDR 11 PER CONTRACTOR ADDED "CURRENT CONST" BLOCK	3/10/08	RAA				
3	CHANGED SDR 35 TO SCH 40 PER CITY OF MOBILE REQUIREMENTS	3/24/08	RAA				
4	REVISED SEWER DUE OBSTRUCTIONS IN VIRGINIA STREET REVISED CURB	3/24/08	RAA				

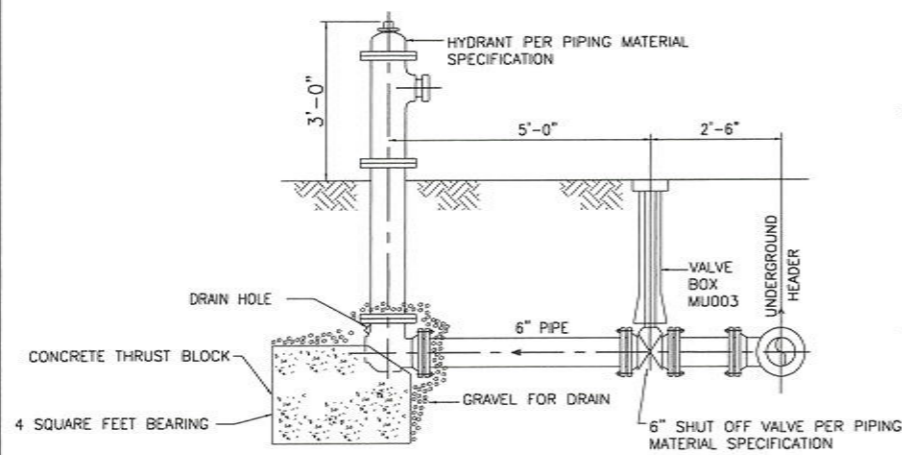


DESIGNED BY	RBB
DRAWN BY	RBB
CHECKED BY	RAA
PROJECT ENGR	RAA

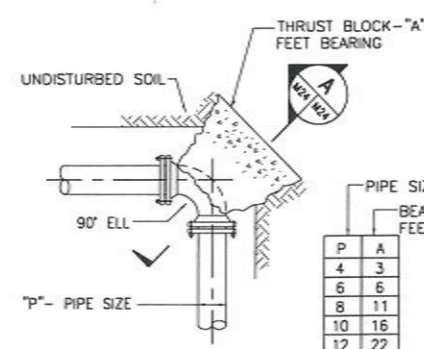
CONTAINER TERMINAL  
AT CHOCTAW POINT  
PAVEMENT, UTILITIES, AND GATE STRUCTURES

DOMESTIC UTILITY PLAN  
SHEET 7 OF 7

SCALE	1" = 50'-0"	REVISION	5
DATE	10/10/07	DRAWING NO.	M-23

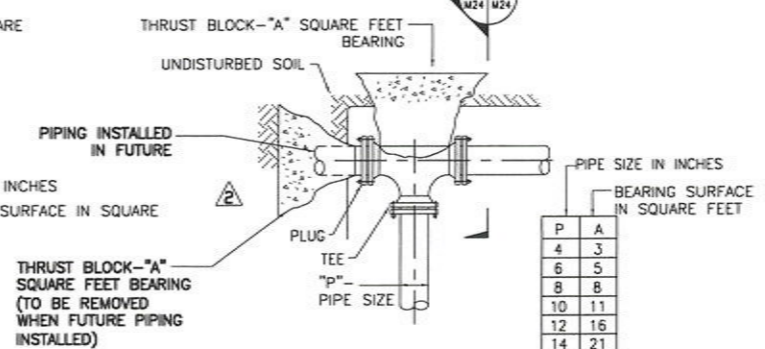


DETAIL TB-1



DETAIL TB-2

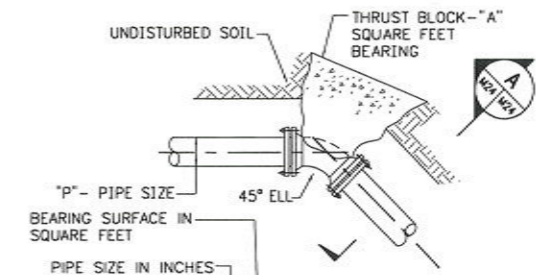
P	A
4	3
6	6
8	11
10	16
12	22
14	30
16	38
18	45



DETAIL TB-3

P	A
4	3
6	5
8	8
10	11
12	16
14	21
16	27
18	32

USE THIS ARRANGEMENT WHEN FUTURE EXPANSION ANTICIPATED

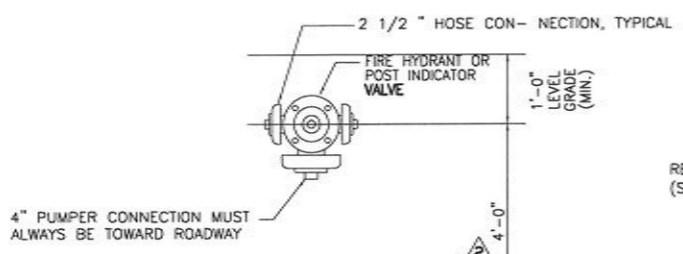


DETAIL TB-4

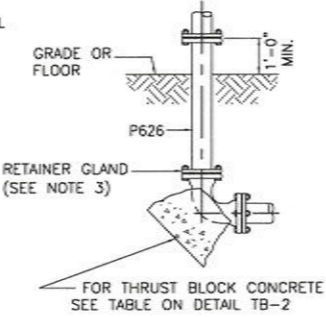
P	A
4	2
6	4
8	6
10	9
12	12
14	16
16	21
18	24

NOTES

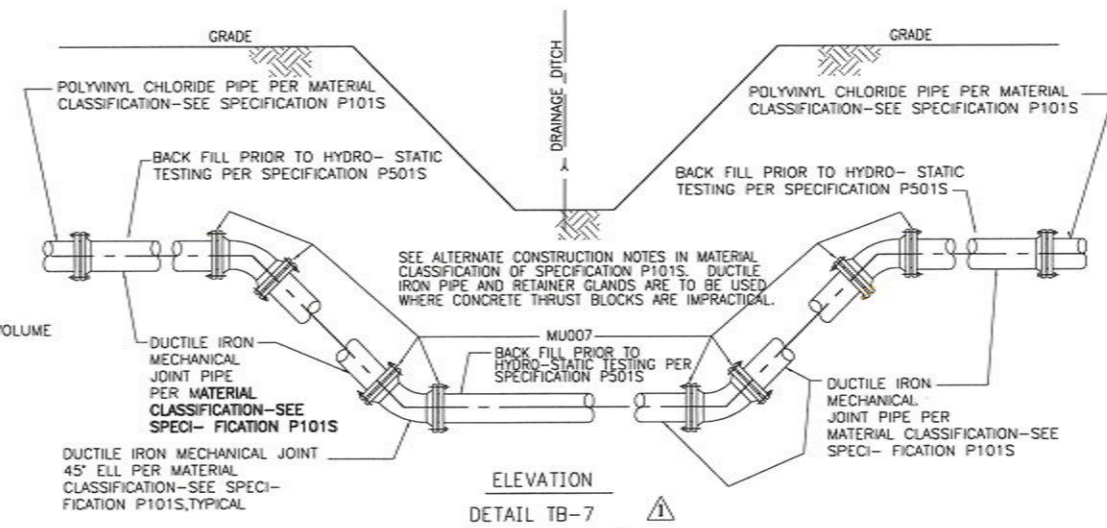
1. THRUST BLOCK SIZES ARE BASED ON AN OPERATING PRESSURE OF 150 PSIG AND A TEST PRESSURE OF 225 PSIG AND A SOIL RESISTANCE OF 2000 POUNDS PER SQUARE FOOT.
2. RETAINER GLAND SET SCREWS TO BE TIGHTENED PER MANUFACTURERS RECOMMENDATIONS.
3. AFTER INSTALLATION, RETAINER GLANDS, NUTS, BOLTS, WASHERS AND OTHER RETAINING DEVICES (EXCEPT THRUST BLOCKS) SHALL BE CLEANED AND THOROUGHLY COATED WITH A BITUMINOUS COATING OR OTHER ACCEPTABLE CORROSION RETARDING MATERIAL.



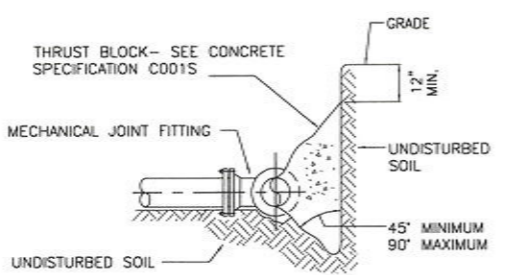
DETAIL TB-5



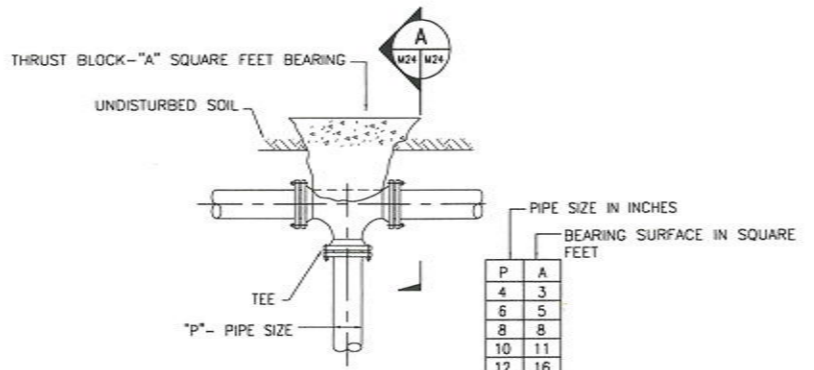
DETAIL TB-6



ELEVATION  
DETAIL TB-7



SECTION A  
(FOR DETAILS TB-2, TB-3, AND TB-4)



DETAIL TB-8

P	A
4	3
6	5
8	8
10	11
12	16
14	21
16	27
18	32

AS-BUILT  
JUNE 20, 2009

GRAPHIC SCALES  
CHECK BEFORE USE  
IF SHEET IS LESS THAN 24" X 36"  
IT IS A REDUCED PRINT SCALE  
ACCORDINGLY

NO.	DESCRIPTION	DATE	BY	NO.	DESCRIPTION	DATE	BY
1	ADDED "CURRENT CONST" BLOCK	3/18/08	RAA				
2	AS-BUILT	6/20/09	RAA				



DESIGNED BY RBB
DRAWN BY RBB
CHECKED BY RAA
PROJECT ENGR RAA

CONTAINER TERMINAL  
AT CHOCTAW POINT  
PAVEMENT, UTILITIES, AND GATE STRUCTURES

FIRE HYDRANT/  
THRUST BLOCK DETAILS

SCALE NONE	REVISION 2
DATE 10/10/07	
DRAWING NO. M-24	