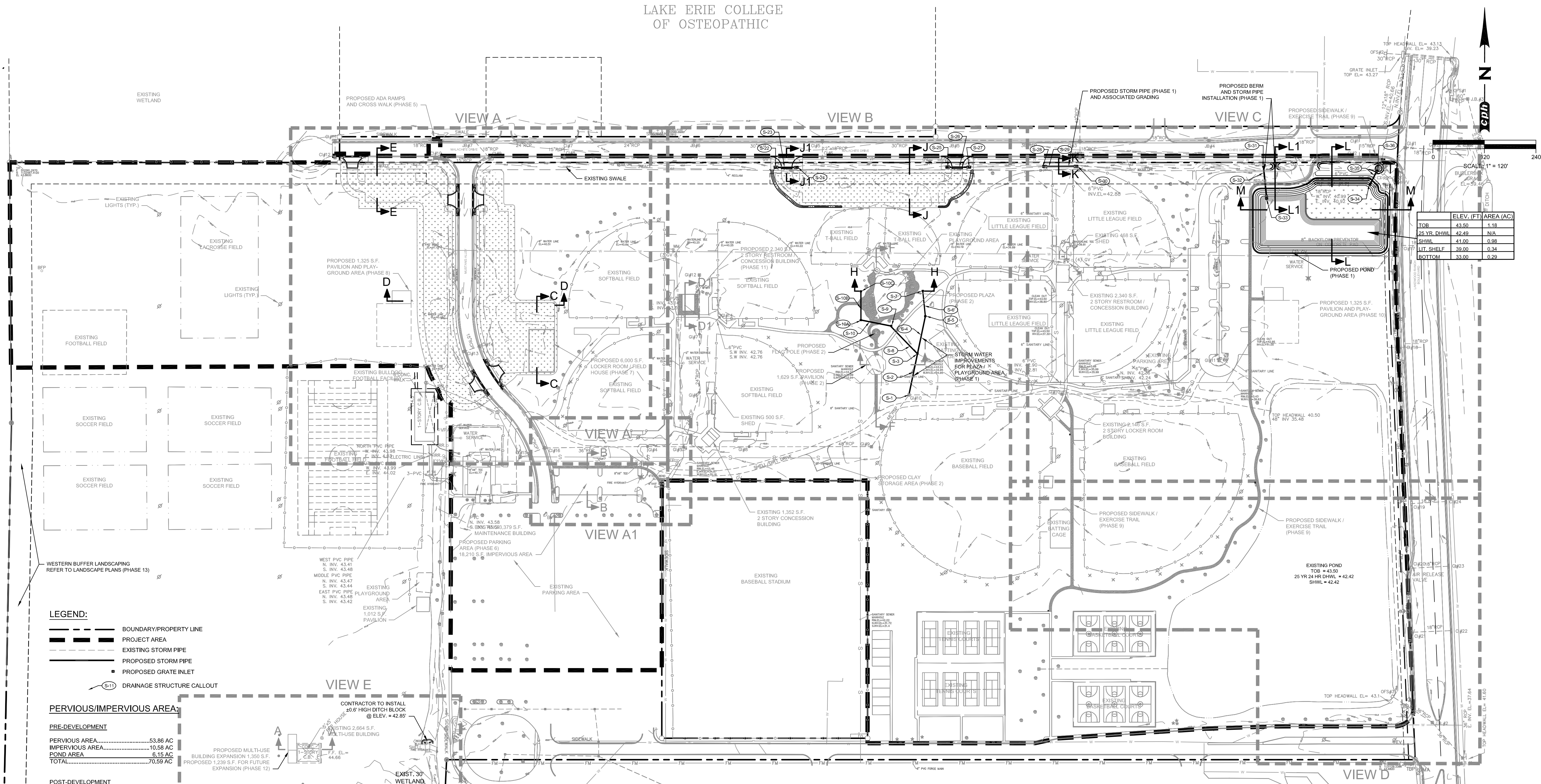


LAKE ERIE COLLEGE
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Arch. Lic. No. AA2600926
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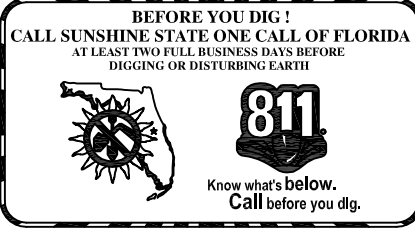
Designed by:	NJK	KMU	JAB	NJK	1"=120'	Date:	11/21/12	No.	SGP	File:
Drawn by:										
Checked by:										
Approved by:										
Scale:										
Date:										
JOB NUMBER:										
File:										

**OVERALL SITE GRADING
AND DRAINAGE PLAN**

**LAKEWOOD RANCH PARK
SITE IMPROVEMENTS**

MANATEE COUNTY, FLORIDA

Sheet No.
C-6



"NOTICE"
THE SIZE OF THESE PLANS MAY HAVE
BEEN SLIGHTLY ALTERED BY
REPRODUCTION PROCESSES. THIS
MUST BE CONSIDERED WHEN SCALING
ANY REPRODUCED PLANS FOR THE
PURPOSE OF COLLECTING DATA.

"CONSENT IS HEREBY GRANTED SPECIFICALLY TO
GOVERNMENTAL AGENCIES TO REPRODUCE THIS
DOCUMENT IN COMPLIANCE WITH F.S. CHAPTER 119."

LEGEND:

- BOUNDARY/PROPERTY LINE
- PROJECT AREA
- EXISTING STORM PIPE
- PROPOSED STORM PIPE
- PROPOSED GRATE INLET
- DRAINAGE STRUCTURE CALLOUT

PERVIOUS/IMPERVIOUS AREA:

PRE-DEVELOPMENT	
PERVIOUS AREA.....	53.86 AC
IMPERVIOUS AREA.....	10.58 AC
POND AREA.....	0.15 AC
TOTAL.....	70.59 AC

POST-DEVELOPMENT	
PERVIOUS AREA.....	45.04 AC
IMPERVIOUS AREA.....	18.42 AC
POND AREA.....	7.13 AC
TOTAL.....	70.59 AC

PHASING NOTES:

REFER TO OVERALL SITE IMPROVEMENT AND
PHASING PLAN FOR PHASING DESCRIPTIONS.

NOTES:

1. REFER TO GEOTECHNICAL RECOMMENDATIONS FOUND IN "REPORT OF
SUBSURFACE EXPLORATION AND GEOTECHNICAL ENGINEERING
EVALUATION" FOR LAKEWOOD RANCH PARK PARKING LOT
IMPROVEMENTS DATED 11/18/2009 BY NODARSE. ALSO REFER TO
RECOMMENDATIONS FOUND IN AN UPDATED "FLEXIBLE AND RIGID
PAVEMENT RECOMMENDATIONS" FOR LAKEWOOD RANCH PARKING LOT
IMPROVEMENTS DATED 2/15/2012 BY NODARSE. CONTRACTOR TO ENSURE
PROPOSED IMPROVEMENTS ARE CONSTRUCTED IN ACCORDANCE W/
THESE REPORTS.
2. CONTRACTOR TO SOD ALL DISTURBED AREAS UNLESS OTHERWISE
SHOWN ON THE LANDSCAPE PLANS.
3. CONTRACTOR TO ADJUST ALL APPLICABLE VALVE BOXES, SPRINKLER
HEADS, ETC., TO THE PROPOSED GRADES.

EXISTING DRAINAGE STRUCTURE TABLE (FROM SURVEY - BY OTHERS)

OUTFALL CONTROL STRUCTURE	GRATE INLET	CURB INLET
OF#1 GRATE EL. = 40.85 INV. EL. = 32.78	CI#1 GRATE EL. = 43.03 INV. EL. = 38.65	CI#14 TOP EL. = 44.69 W. INV. EL. = 39.24 S.E. INV. EL. = 39.12
OF#2 GRATE EL. = 43.05 INV. EL. = 39.43	CI#2 GRATE EL. = 43.99 INV. EL. = 41.58	CI#15 TOP EL. = 44.62 W. INV. EL. = 39.24 S.E. INV. EL. = 39.42
OF#3 GRATE EL. = 43.07 INV. EL. = 41.39 WEIR EL. = 38.31	CI#3 GRATE EL. = 43.69 INV. EL. = 41.23	CI#16 TOP EL. = 44.45 W. INV. EL. = 39.23 S.E. INV. EL. = 37.55
	CI#4 GRATE EL. = 43.34 INV. EL. = 37.85	CI#17 TOP EL. = 42.65 W. INV. EL. = 38.30 THROAT INV. EL. = 42.20
	CI#5 GRATE EL. = 42.68 INV. EL. = 38.88	CI#18 TOP EL. = 44.00 W. INV. EL. = 36.05 S. INV. EL. = 36.91
	CI#6 GRATE EL. = 42.64 INV. EL. = 39.05	CI#19 TOP EL. = 44.00 W. INV. EL. = 36.98 S. INV. EL. = 37.90
	CI#7 GRATE EL. = 42.22 INV. EL. = 39.67	CI#20 TOP EL. = 44.04 W. INV. EL. = 38.79 S. INV. EL. = 37.85
	CI#8 GRATE EL. = 42.31 INV. EL. = 39.29	CI#21 TOP EL. = 44.05 W. INV. EL. = 38.35 S. INV. EL. = 37.85
	CI#9 GRATE EL. = 42.81 INV. EL. = 37.21	CI#22 TOP EL. = 44.00 W. INV. EL. = 36.05 S. INV. EL. = 36.91
	CI#10 GRATE EL. = 42.88 INV. EL. = 36.98	CI#23 TOP EL. = 44.00 W. INV. EL. = 36.05 S. INV. EL. = 36.91
	CI#11 GRATE EL. = 42.83 INV. EL. = 36.73	CI#24 TOP EL. = 44.14 W. INV. EL. = 39.16 S. INV. EL. = 37.85
	CI#12 GRATE EL. = 42.05 INV. EL. = 37.05	CI#25 TOP EL. = 44.00 W. INV. EL. = 36.05 S. INV. EL. = 36.91
	CI#13 GRATE EL. = 42.84 INV. EL. = 39.59	CI#26 TOP EL. = 44.14 W. INV. EL. = 39.16 S. INV. EL. = 37.85
	CI#14 GRATE EL. = 43.95 INV. EL. = 42.77	CI#27 TOP EL. = 44.00 W. INV. EL. = 36.05 S. INV. EL. = 36.91
	CI#15 GRATE EL. = 42.46 INV. EL. = 37.85	CI#28 TOP EL. = 44.84 W. INV. EL. = 39.54

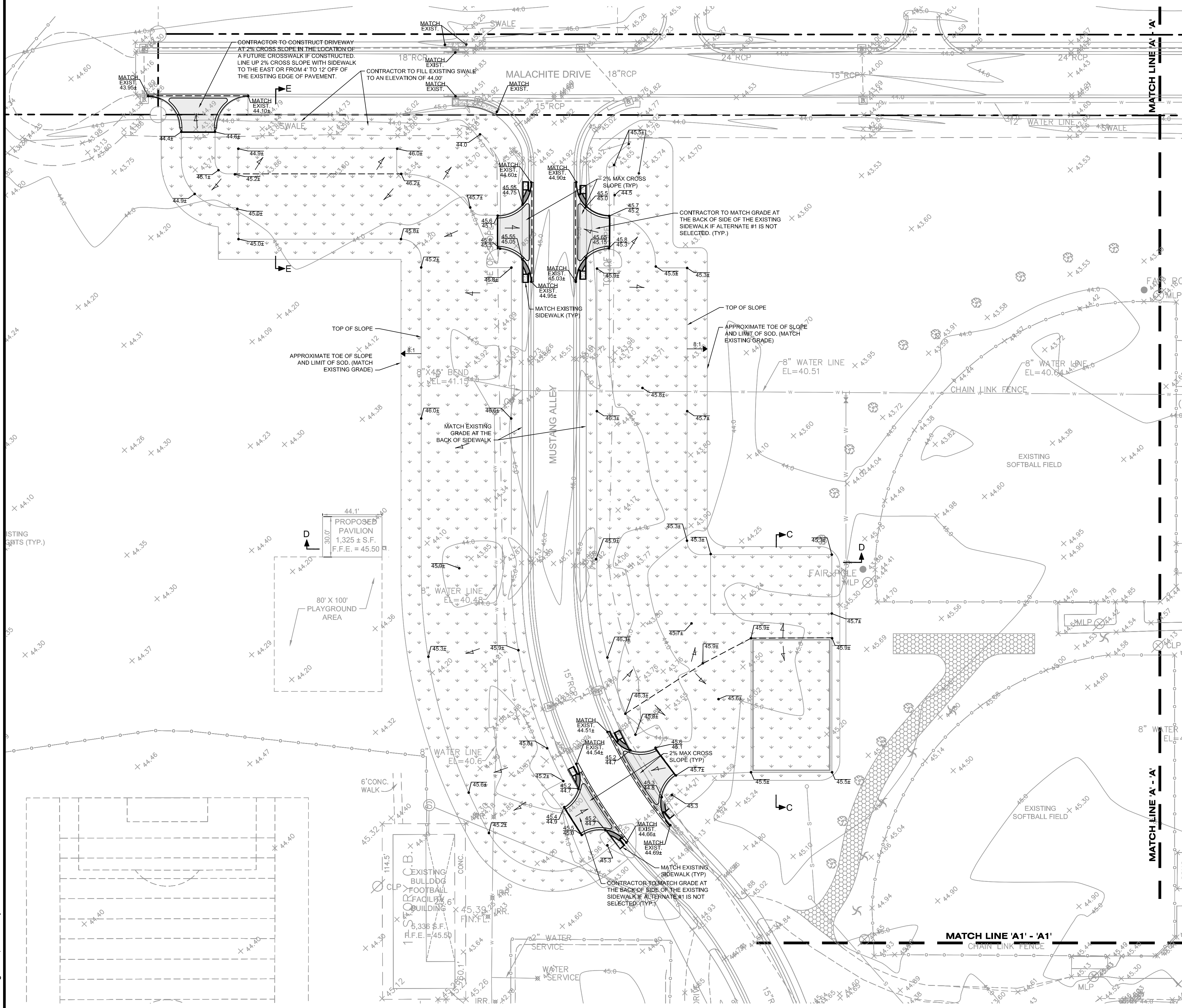
PROPOSED STORM SCHEDULE:

- S-1 CONNECT TO EXISTING STORM
STRUCTURE @ INV. ELEV. = 38.50
TOP ELEV. = 42.83 (FIELD VERIFY)
INV. ELEV. = 36.73 (FIELD VERIFY)
- S-2 95 L.F. ~ 18" STORM PIPE @ 0.20%
- S-3 NYLOPLAST 18" DRAIN BASIN WITH STANDARD H-25 RATED
GRATE PER MANUFACTURERS SPECIFICATIONS
GRATE ELEV. = 43.00
N.E. INV. = 38.69
S.W. INV. = 38.69
- S-4 86 L.F. ~ 18" STORM PIPE @ 0.20%
- S-5 NYLOPLAST 18" DRAIN BASIN WITH STANDARD H-25 RATED
GRATE PER MANUFACTURERS SPECIFICATIONS
GRATE ELEV. = 42.90
S.E. INV. = 38.86
S.W. INV. = 38.86
- S-6 57 L.F. ~ 12" X 30" RCP @ 0.10%
- S-7 NYLOPLAST 18" DRAIN BASIN WITH STANDARD H-25 RATED
GRATE PER MANUFACTURERS SPECIFICATIONS
GRATE ELEV. = 42.90
S.E. INV. = 38.97
- S-8 87 L.F. ~ 18" STORM PIPE @ 0.20%
- S-9 NYLOPLAST 18" DRAIN BASIN WITH STANDARD H-25 RATED
GRATE PER MANUFACTURERS SPECIFICATIONS
GRATE ELEV. = 42.90
S.E. INV. = 38.86
N.W. INV. = 38.86
- S-10 70 L.F. ~ 18" STORM PIPE @ 0.20%
- S-10A NYLOPLAST 18" DRAIN BASIN WITH STANDARD H-25 RATED
GRATE PER MANUFACTURERS SPECIFICATIONS
GRATE ELEV. = 42.90
S.E. INV. = 39.00
N. INV. = 39.00
- S-10B 66 L.F. ~ 18" STORM PIPE @ 0.20%
- S-10C NYLOPLAST 18" DRAIN BASIN WITH STANDARD H-25 RATED
GRATE PER MANUFACTURERS SPECIFICATIONS
GRATE ELEV. = 42.90
S. INV. = 39.13
- S-11 CONCRETE MITERED END SECTION
PER F.D.O.T. INDEX NO. 272 (4:1)
INV. = 41.85
- S-12 55 L.F. ~ 19" X 30" RCP @ 0.10%
- S-13 TYPE "C" CURB INLET PER F.D.O.T. INDEX NO. 211
E.O.P. ELEV. = 44.70
N. INV. = 41.65
S. INV. = 41.65
- S-14 287 L.F. ~ 12" X 18" RCP @ 0.10%
- S-15 TYPE "C" GRATE INLET PER F.D.O.T. INDEX NO. 232
GRATE ELEV. = 44.50
N. INV. = 41.95
- S-16 125 L.F. ~ 14" X 23" RCP @ 0.20%
- S-17 TYPE "C" GRATE INLET PER F.D.O.T. INDEX NO. 232
GRATE ELEV. = 44.70
E. INV. = 41.90
W. INV. = 41.90
- S-18 295 L.F. ~ 12" X 18" RCP @ 0.10%
- S-19 TYPE "C" GRATE INLET PER F.D.O.T. INDEX NO. 232
GRATE ELEV. = 44.70
N. INV. = 42.20
- S-20 160 L.F. ~ 12" RCP @ 0.10%
- S-21 TYPE "C" GRATE INLET PER F.D.O.T. INDEX NO. 232
GRATE ELEV. = 44.50
E. INV. = 42.06
- S-22 CONCRETE MITERED END SECTION
PER F.D.O.T. INDEX NO. 273 (4:1)
INV. = 42.15
- S-23 CONCRETE MITERED END SECTION
PER F.D.O.T. INDEX NO. 273 (4:1)
INV. = 42.05
- S-24 55 L.F. ~ 19" X 30" RCP @ 0.09%
- S-25 CONCRETE MITERED END SECTION
PER F.D.O.T. INDEX NO. 273 (4:1)
INV. = 42.06
- S-26 55 L.F. ~ 19" X 30" RCP @ 0.09%
- S-27 CONCRETE MITERED END SECTION
PER F.D.O.T. INDEX NO. 273 (4:1)
INV. = 42.00
- S-28 CONCRETE MITERED END SECTION
PER F.D.O.T. INDEX NO. 273 (4:1)
INV. = 41.85
- S-29 80 L.F. ~ 19" X 30" RCP @ 0.001%
- S-30 CONCRETE MITERED END SECTION
PER F.D.O.T. INDEX NO. 273 (4:1)
INV. = 41.85
- S-31 TYPE "E" GRATE INLET PER F.D.O.T. INDEX NO. 232
GRATE ELEV. = 41.50
S. INV. = 35.50
- S-32 85 L.F. ~ 30" RCP @ 0.77%
- S-33 CONCRETE MITERED END SECTION
PER F.D.O.T. INDEX NO. 272 (4:1)
INV. = 35.00
- S-34 TYPE "E" GRATE INLET PER F.D.O.T. INDEX NO. 232
OUTFALL STRUCTURE - SEE SHEET C-6C
GRATE ELEV. = 42.50
V-NOTCH WEIR INV. = 41.00
N. INV. = 40.80
- S-35 35 L.F. ~ 12" X 18" RCP @ 0.30%
- S-36 CONCRETE MITERED END SECTION
PER F.D.O.T. INDEX NO. 272 (4:1)
INV. = 40.70

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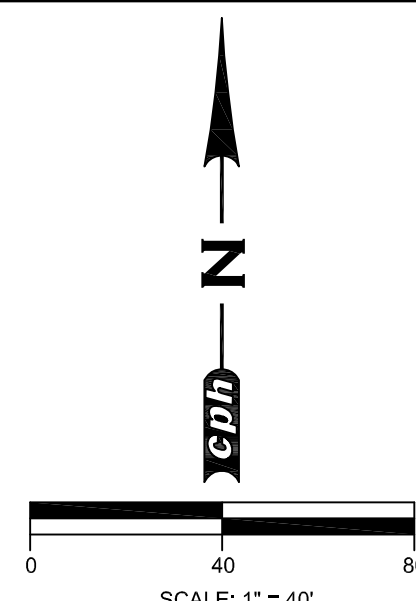


VIEW A



LEGEND:

- BOUNDARY/PROPERTY LINE
- EXISTING STORM PIPE
- PROPOSED STORM PIPE
- PROPOSED GRATE INLET
- DRAINAGE STRUCTURE CALLOUT
- TOP OF CURB ELEV. EDGE OF P.V.M.T./ GRADE ELEV.
- DIRECTION OF OVERLAND FLOW
- DRAINAGE BASIN LINE
- LIGHT DUTY ASPHALT PAVEMENT - SEE GENERAL DETAILS SHEET
- CONCRETE SIDEWALK - SEE GENERAL DETAILS SHEET
- COMPACTED SHELL - SEE GENERAL DETAILS SHEET
- HEAVY DUTY CONCRETE PAVEMENT - SEE GENERAL DETAILS SHEET
- APPROXIMATE LIMITS OF DISTURBED AREA REQUIRING SOD



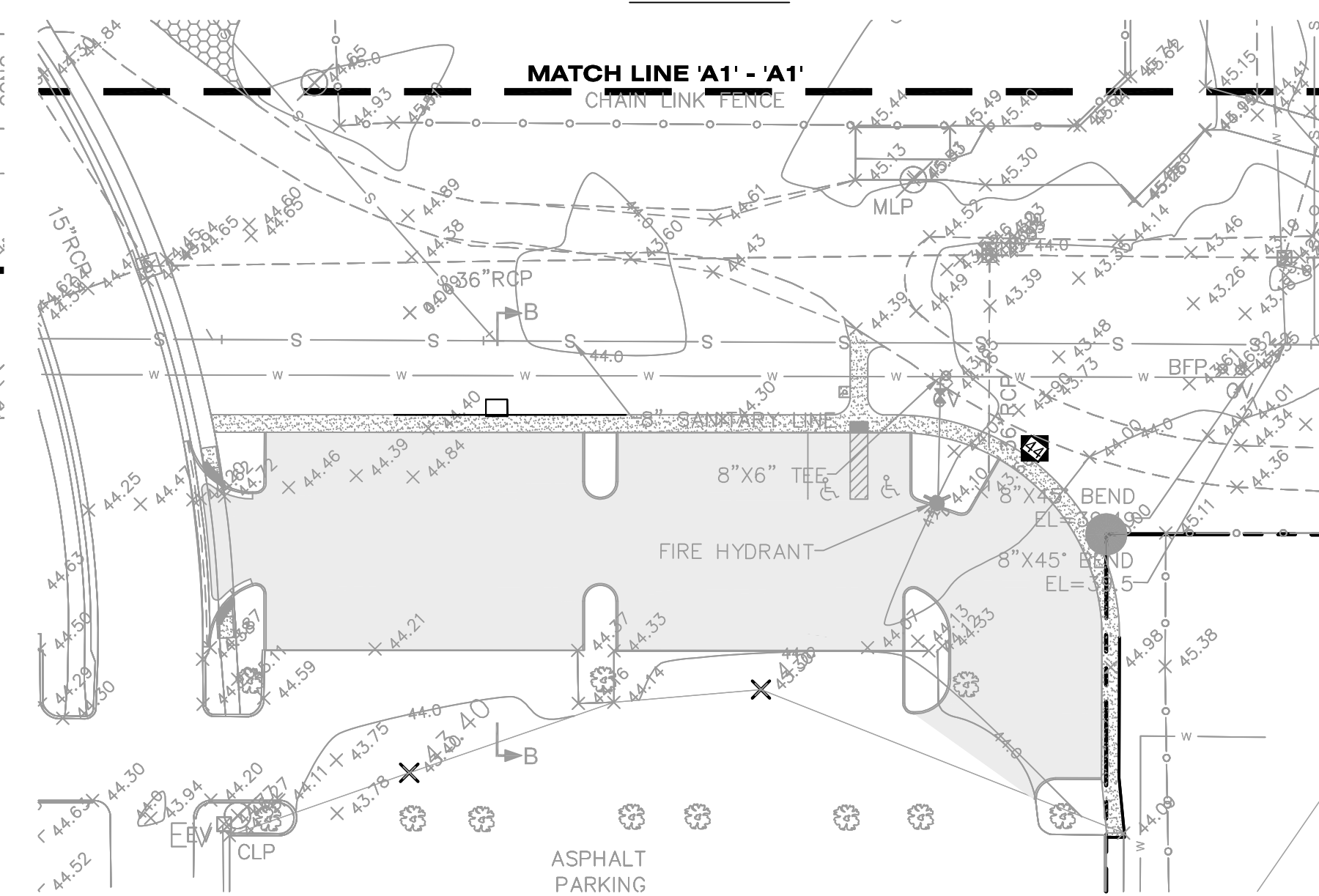
NOTE:

ON ALL SUBSEQUENT GRADING PLANS, REFER TO THIS SHEET FOR EXISTING DRAINAGE STRUCTURE AND PIPE INFORMATION.

EXISTING DRAINAGE STRUCTURE TABLE

OUTFALL CONTROL STRUCTURE	GRATE INLET	GRATE INLET	CURB INLET	CURB INLET
D/S#1 GRATE EL. = 40.85 INV. EL. = 32.78	G#1 GRATE EL. = 43.03 INV. EL. = 38.65	G#16 GRATE EL. = 44.15 INV. EL. = 41.91	G#1 TOP EL. = 43.29 S. INV. EL. = 38.64 W. INV. EL. = 38.49	G#4 TOP EL. = 44.69 W. INV. EL. = 39.24 S.E. INV. EL. = 39.12
D/S#2 GRATE EL. = 43.05 INV. EL. = 39.43	G#2 GRATE EL. = 43.03 INV. EL. = 38.43	G#17 GRATE EL. = 43.99 INV. EL. = 41.58	G#2 TOP EL. = 43.69 INV. EL. = 39.24	G#5 TOP EL. = 44.62 INV. EL. = 39.42
D/S#3 GRATE EL. = 43.07 INV. EL. = 41.39 WEIR EL. = 38.31	G#3 GRATE EL. = 43.03 INV. EL. = 36.48	G#18 GRATE EL. = 43.69 INV. EL. = 41.23	G#3 TOP EL. = 44.00 N. INV. EL. = 35.50 S. INV. EL. = 37.60 E. INV. EL. = 37.35 W. INV. EL. = 35.95	G#16 TOP EL. = 44.45 N.W. INV. EL. = 38.23 W. INV. EL. = 38.73 E. INV. EL. = 37.55
JUNCTION BOX	G#4 GRATE EL. = 42.93 INV. EL. = 37.93	G#19 GRATE EL. = 43.54 INV. EL. = 41.23	G#19 TOP EL. = 44.05 INV. EL. = 38.35	G#17 TOP EL. = 42.65 INV. EL. = 38.30 THROAT INV. EL. = 42.20
JB#1 TOP EL. = 42.96 INV. EL. = 37.96	G#5 GRATE EL. = 42.68 INV. EL. = 38.88	G#20 GRATE EL. = 43.34 INV. EL. = 37.85	G#20 TOP EL. = 44.05 INV. EL. = 38.35	G#18 TOP EL. = 42.65 INV. EL. = 38.30 THROAT INV. EL. = 42.20
JB#2 TOP EL. = 43.75 INV. EL. = 37.85	G#6 GRATE EL. = 42.64 INV. EL. = 39.05	G#21 GRATE EL. = 42.22 INV. EL. = 39.67	G#21 TOP EL. = 44.00 E. INV. EL. = 36.85 W. INV. EL. = 36.98 S. INV. EL. = 37.90	G#19 TOP EL. = 43.31 INV. EL. = 39.01 THROAT INV. EL. = 42.90
JB#3 TOP EL. = 44.90 INV. EL. = 33.37	G#7 GRATE EL. = 42.64 INV. EL. = 39.29	G#22 GRATE EL. = 42.31 INV. EL. = 39.46	G#22 TOP EL. = 44.04 INV. EL. = 38.79	G#19 TOP EL. = 43.56 INV. EL. = 39.21 THROAT INV. EL. = 43.10
JB#4 TOP EL. = 44.81 INV. EL. = 37.86	G#8 GRATE EL. = 42.81 INV. EL. = 37.21	G#23 GRATE EL. = 42.31 INV. EL. = 39.46	G#23 TOP EL. = 44.04 INV. EL. = 38.79	G#20 TOP EL. = 42.80 THROAT INV. EL. = 42.34
JB#5 TOP EL. = 44.96 E. INV. EL. = 36.44 W. INV. EL. = 36.57	G#9 GRATE EL. = 42.88 INV. EL. = 36.98	G#24 GRATE EL. = 41.89 INV. EL. = 38.52	G#24 TOP EL. = 44.00 E. INV. EL. = 36.05 W. INV. EL. = 38.43 S. INV. EL. = 38.70	G#21 TOP EL. = 43.20 THROAT INV. EL. = 42.76
JB#6 TOP EL. = 44.99 E. INV. EL. = 37.64 W. INV. EL. = 37.49	G#10 GRATE EL. = 42.83 INV. EL. = 36.73	G#25 GRATE EL. = 41.23 INV. EL. = 36.83	G#25 TOP EL. = 44.14 INV. EL. = 39.18 W. INV. EL. = 39.31	G#22 TOP EL. = 43.05 INV. EL. = 42.60
JB#7 TOP EL. = 45.13 E. INV. EL. = 38.68 W. INV. EL. = 38.98 S.E. INV. EL. = 38.98	G#11 GRATE EL. = 42.05 INV. EL. = 37.05	G#26 GRATE EL. = 41.21 INV. EL. = 36.06	G#26 TOP EL. = 44.76 W. INV. EL. = 39.18 S. INV. EL. = 39.31	G#23 TOP EL. = 44.92 INV. EL. = 39.77
	G#12 GRATE EL. = 42.05 INV. EL. = 37.05		G#27 TOP EL. = 44.76 W. INV. EL. = 39.18 S. INV. EL. = 39.31	G#24 TOP EL. = 43.01 INV. EL. = 37.61
	G#13 GRATE EL. = 42.84 INV. EL. = 39.59		G#28 TOP EL. = 44.26 INV. EL. = 40.21	G#25 TOP EL. = 42.61 INV. EL. = 37.41
	G#14 GRATE EL. = 42.30 INV. EL. = 35.75		G#29 TOP EL. = 44.84 INV. EL. = 39.54	
	G#15 GRATE EL. = 43.95 INV. EL. = 42.77			
	G#16 GRATE EL. = 42.46 INV. EL. = 37.85			

VIEW A1

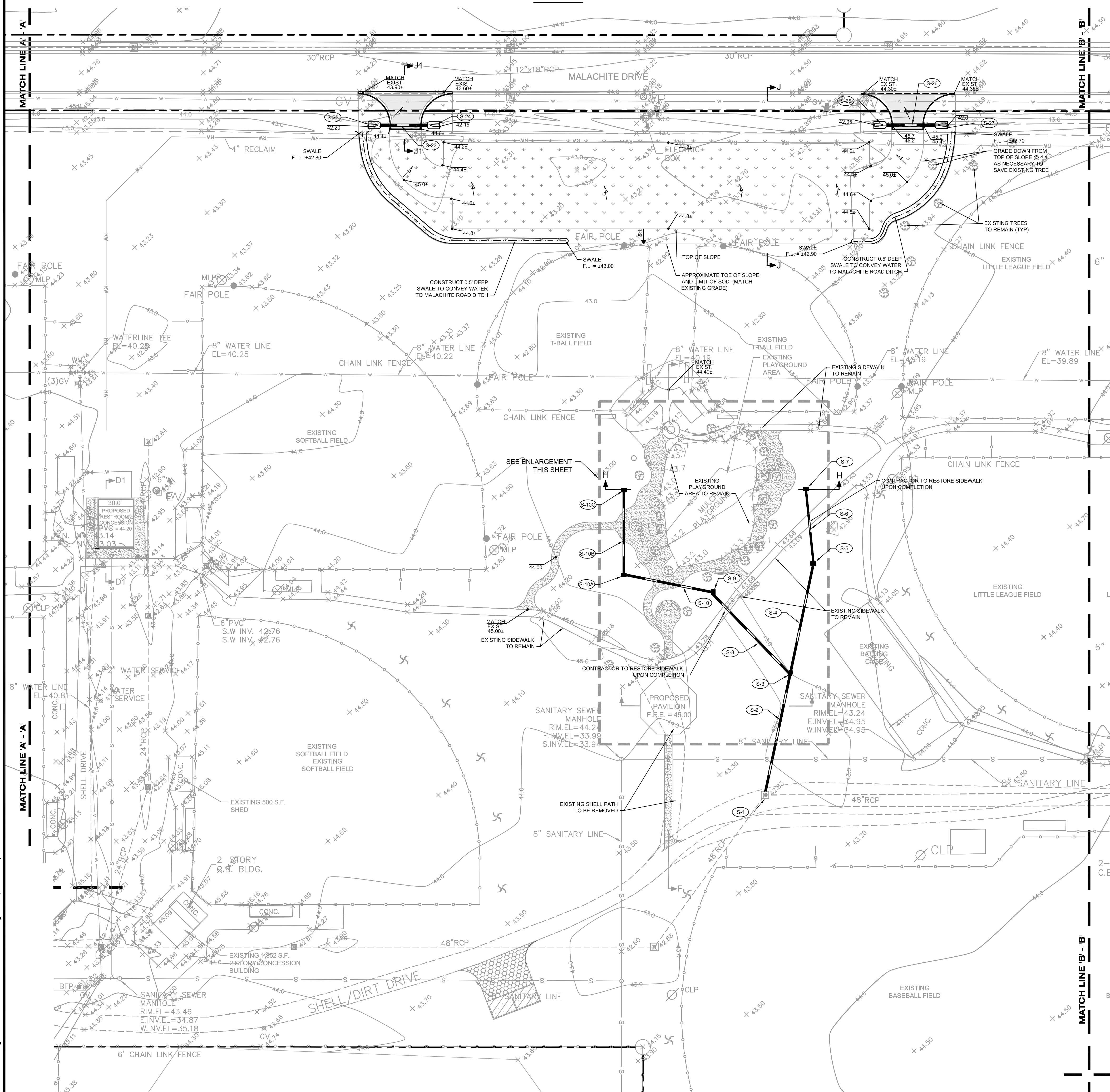


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Landscape Lic. No. LC0000298
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Designed by:	NJK	Checked by:	JAB	Approved by:	NJK	Scale:	1"=40'	Date:	12/30/11	Job Number:	M13102	File:	SDP	No.	11/21/12	Date	Revision	By					
																		PHASE I CONSTRUCTION PLANS	NJK				
																		SHEET GRADING AND DRAINAGE PLAN		LAKEWOOD RANCH PARK SITE IMPROVEMENTS		MANATEE COUNTY, FLORIDA	
																		Sheet No.		C-6A			



S-1 CONNECT TO EXISTING STORM STRUCTURE @ INV ELEV. = 38.50
TOP ELEV. = 42.83 (FIELD VERIFY)
INV ELEV. = 36.73 (FIELD VERIFY)
95 L.F. - 18" STORM PIPE @ 0.20%

S-2 95 L.F. - 18" STORM PIPE @ 0.20%

S-3 NYLOPLAST 18" DRAIN BASIN WITH STANDARD H-25 RATED GRATE PER MANUFACTURERS SPECIFICATIONS
GRATE ELEV. = 43.00
N.E. INV. = 38.69
N.W. INV. = 38.69
S.W. INV. = 38.69

S-4 86 L.F. - 18" STORM PIPE @ 0.20%

S-5 NYLOPLAST 18" DRAIN BASIN WITH STANDARD H-25 RATED GRATE PER MANUFACTURERS SPECIFICATIONS
GRATE ELEV. = 42.90
N.W. INV. = 38.86
S.W. INV. = 38.86

S-6 57 L.F. - 15" STORM PIPE @ 0.20%

S-7 NYLOPLAST 15" DRAIN BASIN WITH STANDARD H-25 RATED GRATE PER MANUFACTURERS SPECIFICATIONS
GRATE ELEV. = 42.90
S.E. INV. = 39.57

S-8 87 L.F. - 18" STORM PIPE @ 0.20%

S-9 NYLOPLAST 18" DRAIN BASIN WITH STANDARD H-25 RATED GRATE PER MANUFACTURERS SPECIFICATIONS
GRATE ELEV. = 42.90
S.E. INV. = 38.86
N.W. INV. = 38.86

S-10 70 L.F. - 18" STORM PIPE @ 0.20%

S-10A NYLOPLAST 18" DRAIN BASIN WITH STANDARD H-25 RATED GRATE PER MANUFACTURERS SPECIFICATIONS
GRATE ELEV. = 42.90
N.E. INV. = 39.00
N.W. INV. = 39.00

S-10B 66 L.F. - 15" STORM PIPE @ 0.20%

S-10C NYLOPLAST 15" DRAIN BASIN WITH STANDARD H-25 RATED GRATE PER MANUFACTURERS SPECIFICATIONS
GRATE ELEV. = 42.90
S.E. INV. = 39.13

S-22 CONCRETE MITERED END SECTION
PER F.D.O.T. INDEX NO. 273 (4:1)
INV. = 42.20

S-23 55 L.F. - 19" X 30" RCP @ 0.09%

S-24 CONCRETE MITERED END SECTION
PER F.D.O.T. INDEX NO. 273 (4:1)
INV. = 42.15

S-25 CONCRETE MITERED END SECTION
PER F.D.O.T. INDEX NO. 273 (4:1)
INV. = 42.05

S-26 55 L.F. - 19" X 30" RCP @ 0.09%

S-27 CONCRETE MITERED END SECTION
PER F.D.O.T. INDEX NO. 273 (4:1)
INV. = 42.00

S-28 CONCRETE MITERED END SECTION
PER F.D.O.T. INDEX NO. 273 (4:1)
INV. = 41.95

S-29 80 L.F. - 19" X 30" RCP @ 0.001%

S-30 CONCRETE MITERED END SECTION
PER F.D.O.T. INDEX NO. 273 (4:1)
INV. = 41.85

S-31 TYPE "E" GRATE INLET PER F.D.O.T. INDEX NO.
GRADE ELEV. = 41.50
S INV. = 35.50

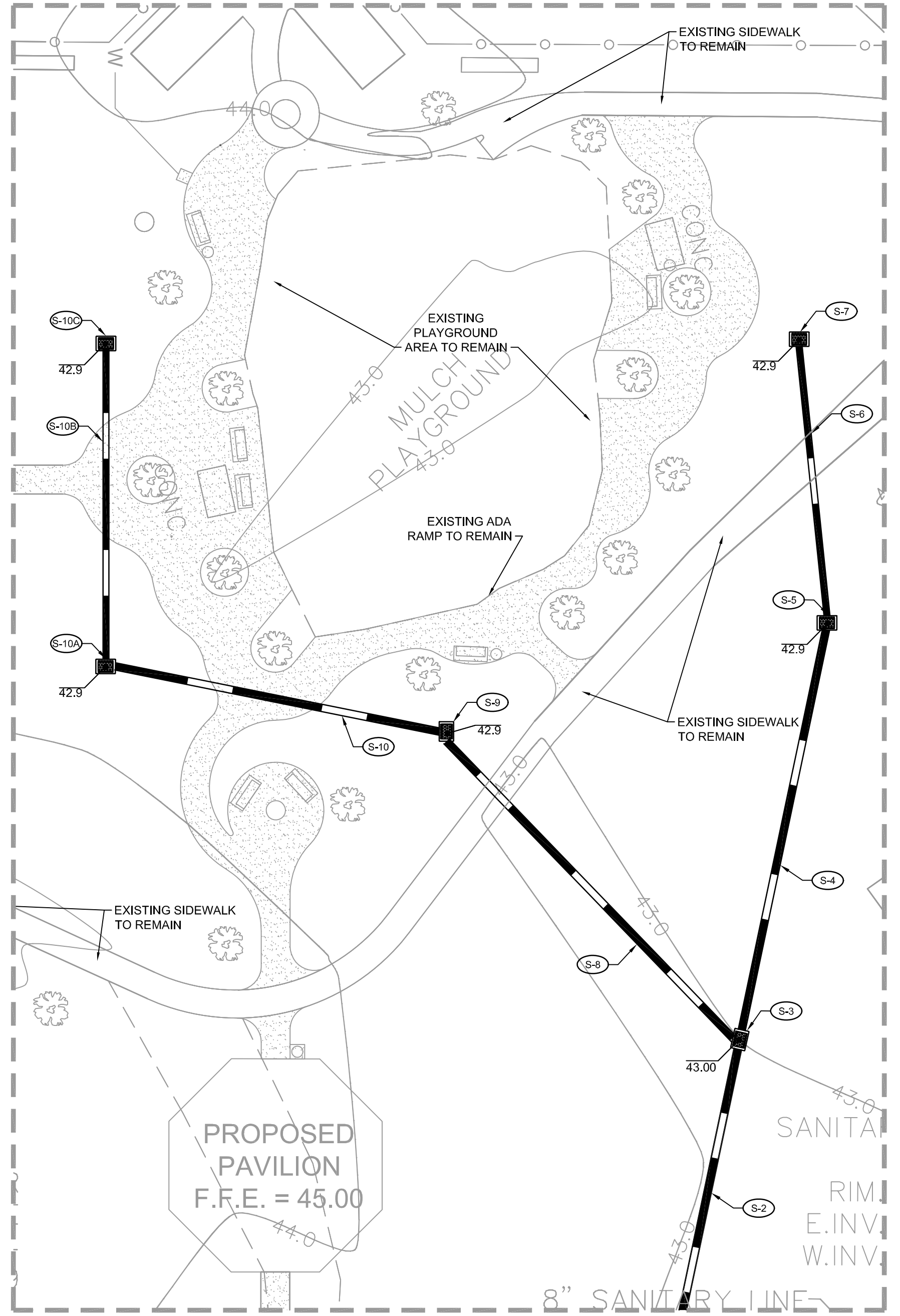
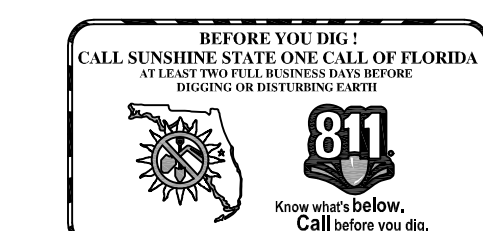
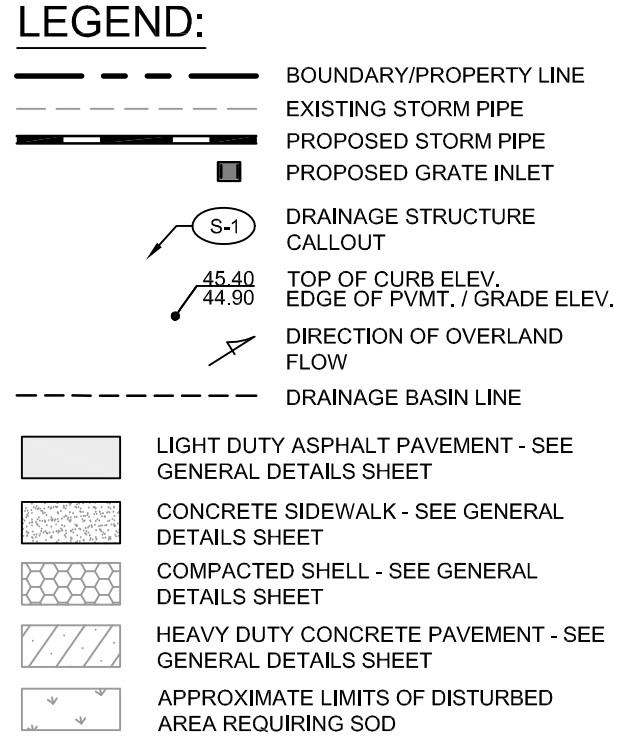
S-32 85 L.F. - 30" RCP @ 0.77%

S-33 CONCRETE MITERED END SECTION
PER F.D.O.T. INDEX NO. 272 (4:1)
INV. = 35.00

S-34 TYPE "E" GRATE INLET PER F.D.O.T. INDEX NO.
OUTLET STRUCTURE - SEE SHEET C-6C
GRADE ELEV. = 42.50
V-NOTCH WEIR INV. = 41.00
N INV. = 34.80

S-35 35 L.F. - 12" X 18" RCP @ 0.30%

S-36 CONCRETE MITERED END SECTION
PER F.D.O.T. INDEX NO. 272 (4:1)
INV. = 40.70



ENLARGEMENT
SCALE: 1"=20'

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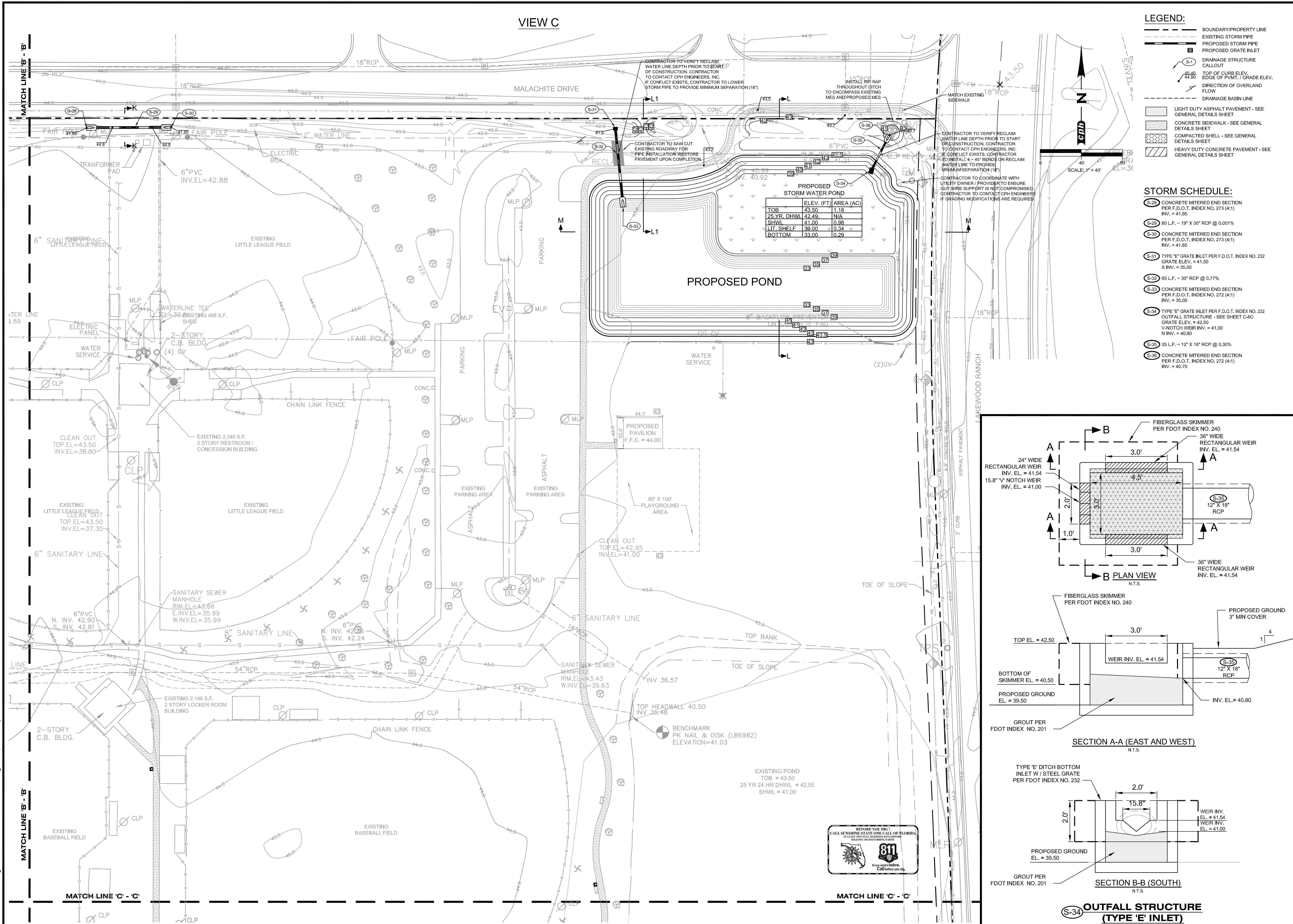
Eng. C.O.A. No. 3215
Survey L.B. No. 7143
Arch. Lic. No. AA2600926
Landscp. Lic. No. LC0000298

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SITE GRADING AND DRAINAGE PLAN	Designed by:	NJK	△				
	Drawn by:	KMU	△				
	Checked by:	JAB	△				
	Approved by:	NJK	△				
	Scale:	1"=40'	△				
LAKEWOOD RANCH PARK SITE IMPROVEMENTS	Date:	12/30/11	△				
	JOB NUMBER:	M13102	△	11/21/12			
	File:	SDP	No.	Date	Revision		
MANATEE COUNTY, FLORIDA							NATHAN J. KRAGT, P.E. 69272

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SITE GRADING AND DRAINAGE PLAN LAKewood RANCh PARK SITE IMPROVEMENTS MANATEE COUNTY, FLORIDA	Designed by:	NJK	△					
	Drawn by:	KIWU	△					
	Checked by:	JAB	△					
	Approved by:	NJK	△					
	Scale:	1"=40'	△					
	Date:	12/30/11	△					
	JOB NUMBER:	M13102	△	11/21/12				
	File:	SOP	△	No.	Date			
							PHASE I CONSTRUCTION PLANS	NJK
							Revision	By

NATHAN J. KRAST, P.E.
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Landscape Architects
Environmental Scientists
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