

PALM BEACH COUNTY
STATE OF FLORIDA

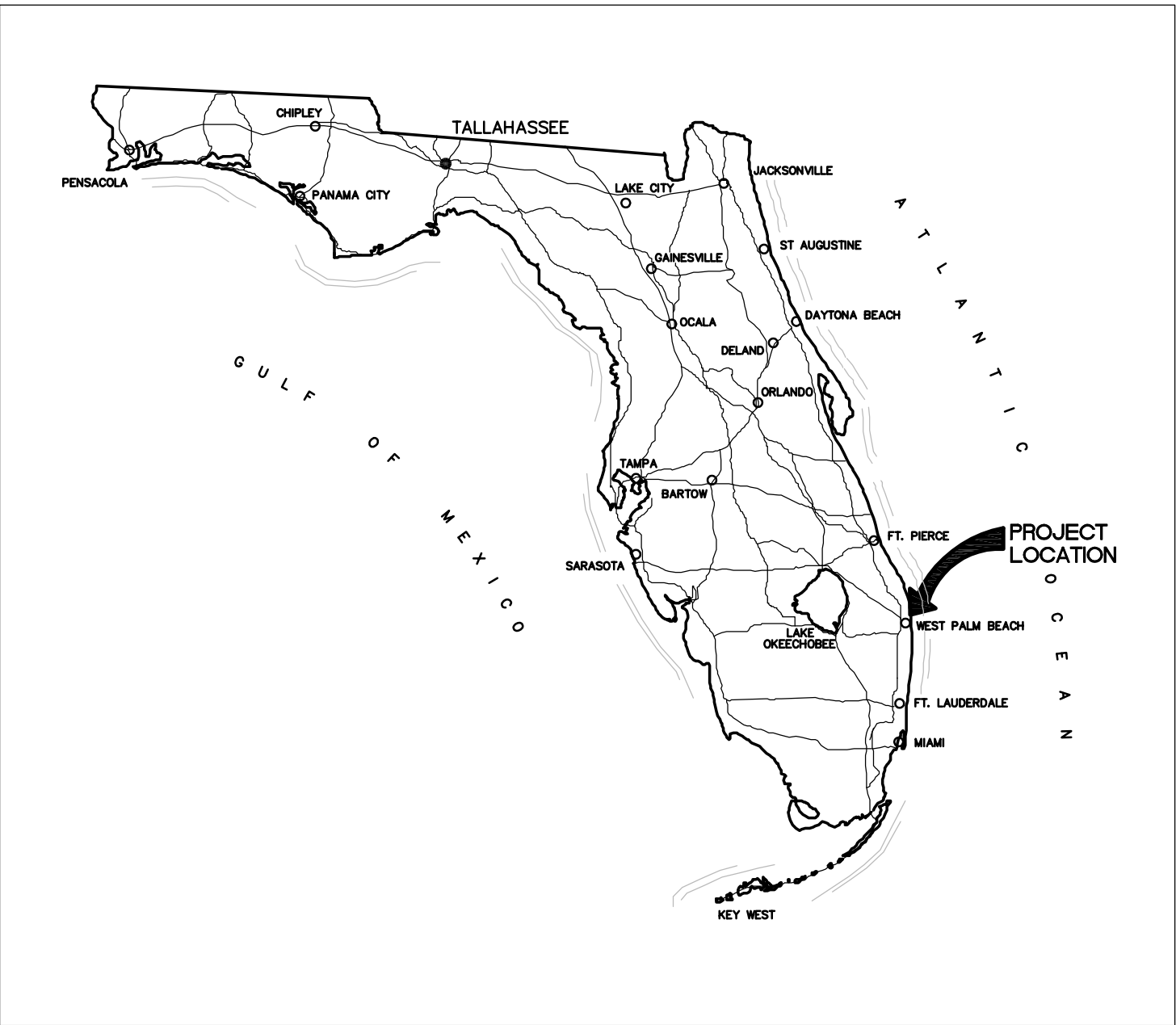
CONSTRUCTION
SET
NOVEMBER 2016



OKEEHOLEE PARK SOUTH BOAT LAUNCH AND RESTROOM FACILITY

PROJECT NO. 10210

LOCATION MAP



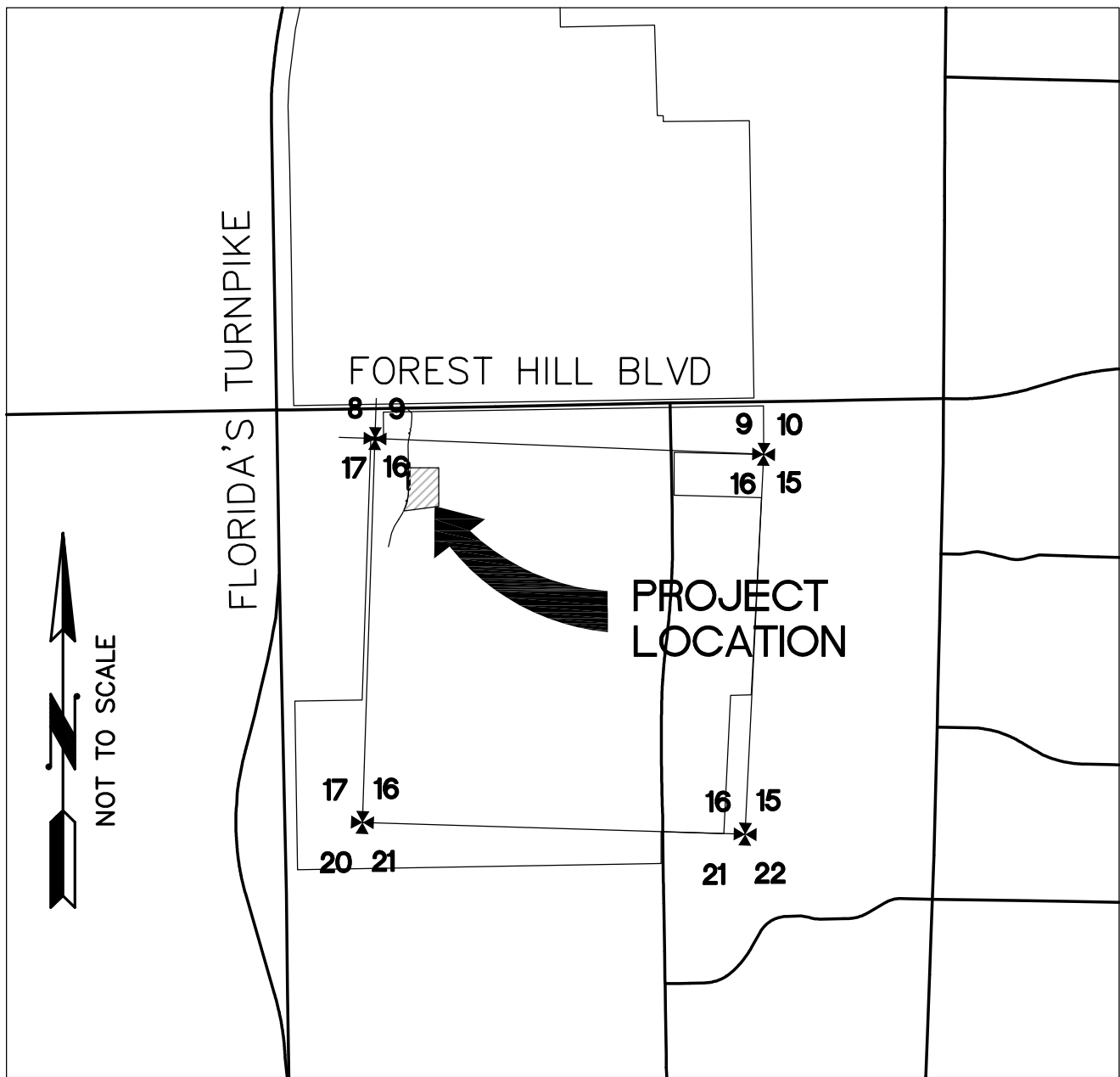
BOARD OF COUNTY COMMISSIONERS

- Mary L. Berger, Mayor
- Hal R. Valeche, Vice Mayor
- Paulette Burdick
- Shelley Vana
- Steven L. Abrams
- Melissa McKinlay
- Priscilla A. Taylor

FACILITIES DEVELOPMENT AND OPERATIONS
CAPITAL IMPROVEMENTS DIVISION
WEST PALM BEACH, FLORIDA

WUD #16-577

VICINITY MAP



SECTION 16
TOWNSHIP 44 SOUTH, RANGE 42 EAST

Plotted: 03/24/2015

T01-COVER.dwg

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SITE ELECTRICAL

- E-1 POWER DISTRIBUTION SITE PLAN

1 2 3 4 5 6

A

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B

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DSGN	J. DEBRINCAT						
DR	D. ALMENDINGER						
CHK	M. LANDRUM						
APVD	J. VALLE	NO.	DATE	REVISION	BY	APVD	

VERIFY SCALE
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CH2MHILL

3001 PGA BOULEVARD, SUITE 300
PALM BEACH GARDENS, FLORIDA 33410
EB 0000072 AA C000656 LC 26000188

OKEEHOLEE PARK SOUTH
BOAT LAUNCH AND RESTROOM FACILITY
PALM BEACH COUNTY, FLORIDA

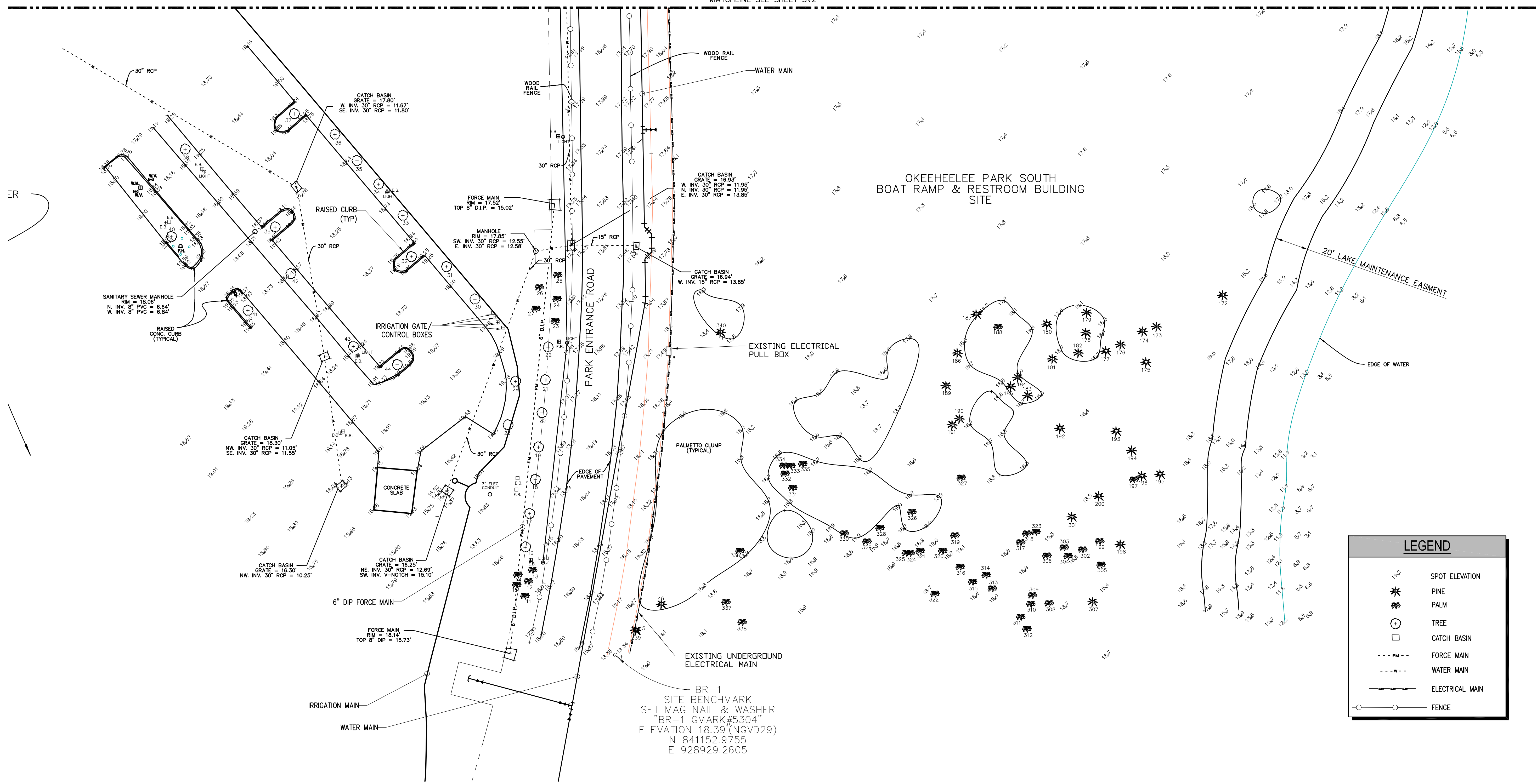
CIVIL
DRAWING INDEX, LEGEND,
ABBREVIATIONS AND NOTES

SHEET	2 OF 51
DWG	T02
DATE	NOVEMBER 2016
PROJ	409534

Plotted: November 17, 2016

T02 - TOC.dwg

MATCHLINE SEE SHEET SV2



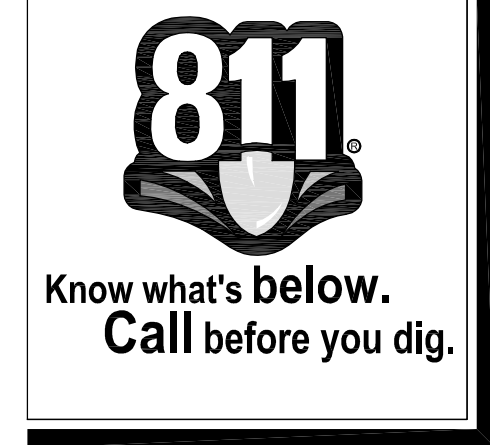
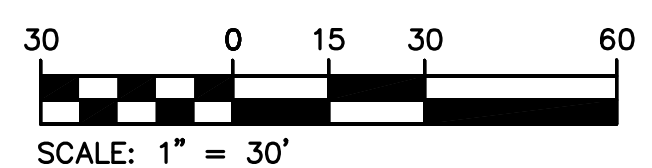
LEGEND

- SPOT ELEVATION
- PINE
- PALM
- TREE
- CATCH BASIN
- FORCE MAIN
- WATER MAIN
- ELECTRICAL MAIN
- FENCE

CONSTRUCTION SET
NOVEMBER 2016

NOTE: SITE SURVEY DATA PROVIDED TO CH2MHILL BY PBC ENGINEERING AND PUBLIC WORKS, SURVEY SECTION.

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OKEEHEELEE PARK SOUTH
BOAT LAUNCH AND RESTROOM FACILITY
PALM BEACH COUNTY, FLORIDA

SURVEY
SITE SURVEY / TREE SURVEY

SHEET	3 OF 51
DWG	SV1
DATE	NOVEMBER 2016
PROJ	409534

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LEE PARK SOUTH
UNDARY SURVEY
BEACH COUNTY
NO. S-3-11-3166

OKEEHOLEE PARK SOUTH
SEE: BOUNDARY SURVEY
PALM BEACH COUNTY
DRAWING NO. S-3-11-3166

EXISTING FPL PAD
MOUNTED TRANSFORMER

CATCH BASIN
GRATE = 17.93'
S. WER PLATE TOP = 13.42'
S. INV. 30° RCP = 11.77'
N. INV. 30° RCP = 11.84'

BR-2
SITE BENCHMARK
SET MAG NAIL & WASHER
"BR-2 GMRK#5304"
ELEVATION 18.61'(NGVD29)
N 841759.1845
E 928972.5695

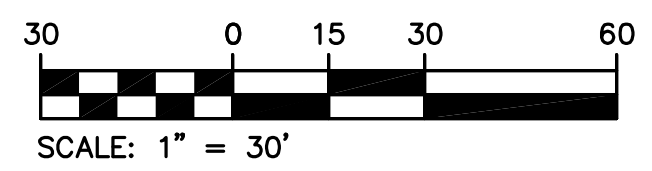
LEGEND

- 18.0 SPOT ELEVATION
- * PINE
- ☼ PALM
- ⊕ TREE
- CATCH BASIN
- FORCE MAIN
- - - WATER MAIN
- ELECTRICAL MAIN
- FENCE

OKEEHOLEE PARK SOUTH
BOAT RAMP & RESTROOM BUILDING
SITE

20' LAKE MAINTENANCE EASEMENT

MATCHLINE SEE SHEET SV1



NOTE:
SITE SURVEY DATA PROVIDED TO CH2MHILL BY
PBC ENGINEERING AND PUBLIC WORKS, SURVEY SECTION.

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CONSTRUCTION
SET
NOVEMBER 2016

DSGN	
DR	
CHK	
APVD	

NO.	DATE	REVISION	BY	APVD

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PALM BEACH GARDENS, FLORIDA 33410
EB 0000072 AA C000656 LC 26000188

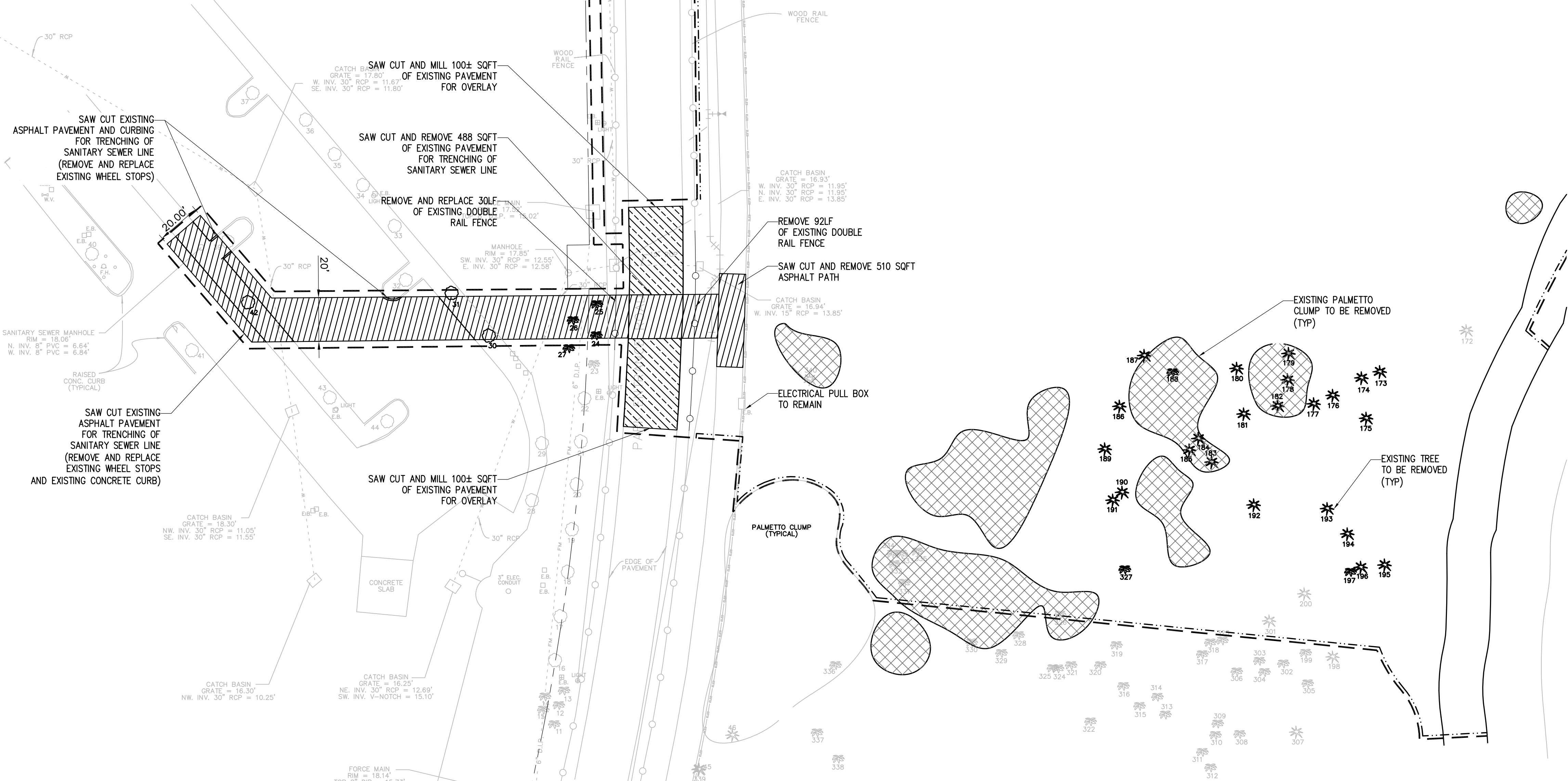
OKEEHOLEE PARK SOUTH
BOAT LAUNCH AND RESTROOM FACILITY
PALM BEACH COUNTY, FLORIDA

SURVEY
SITE SURVEY / TREE SURVEY

SHEET	4 OF 51
DWG	SV2
DATE	NOVEMBER 2016
PROJ	409534

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MATCHLINE SEE SHEET DM2

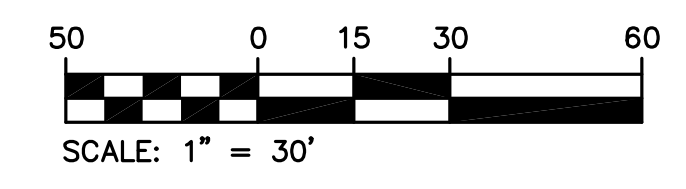


TREES TO BE REMOVED				
TREE NO.	TYPE	SIZE	NORTHING	EASTING
24	CABBAGE PALM	12"	841366.074	928894.611
25	CABBAGE PALM	12"	841380.227	928894.872
26	CABBAGE PALM	12"	841372.942	928883.975
27	CABBAGE PALM	12"	841360.159	928882.036
30	OAK	6"	841365.708	928845.417
31	OAK	6"	841385.144	928828.429
42	OAK	6"	841380.911	928735473
173	PINE	8"	841349.396	929252.509
174	PINE	10"	841346.593	929244.140
175	PINE	10"	841328.150	929246.283
176	PINE	8"	841338.623	929230.980
177	PINE	10"	841334.758	929222.321
178	PINE	9"	841345.714	929210.378
179	PINE	10"	841357.731	92910.819
180	PINE	12"	841350.929	929187.124
181	PINE	12"	841330.126	929190.332
182	PINE	9"	841333.777	929205.824
183	PINE	7"	841308.163	929175.682
184	PINE	11"	841318.903	929169.598
185	PINE	8"	841313.676	929165.489
186	PINE	10"	841333.637	929133.587
187	PINE	8"	841356.794	929144.881
188	CABBAGE PALM	15"	841349.148	929157.930
189	PINE	15"	841314.142	929126.883
190	PINE	15"	841294.373	929134.778
191	PINE	12"	841290.772	929130.517
192	PINE	8"	841288.628	929194.927
193	PINE	8"	841286.924	929228.466
194	PINE	7"	841275.375	929237.691
195	PINE	8"	841261.171	929254.688
196	PINE	6"	841260.125	929243.786
197	CABBAGE PALM	15"	841258.064	929239.101
327	CABBAGE PALM	15"	841259.196	929136.005

DEMOLITION LEGEND	
	EXISTING PAVEMENT, WHEEL STOPS, SIDEWALK AND CURBING TO BE REMOVED FOR SANITARY UTILITY INSTALLATION
	EXISTING PAVEMENT TO BE MILLED AND OVERLAY
	EXISTING PALMETTO CLUMP TO BE REMOVED
	PROJECT BOUNDARY
	SILT FENCE

BR-1
SITE BENCHMARK
SET MAG NAIL & WASHER
"BR-1 G MARK #5304"
ELEVATION 18.39'(NCVD29)
N 841152.9755
E 928929.2605

- NOTES**
- ALL EXISTING TREES TO BE REMOVED SHALL BE RELOCATED AS DIRECTED BY PALM BEACH COUNTY PARKS AND RECREATION.
 - ALL EXISTING PAVEMENT, CURBING AND WHEEL STOPS SHALL BE RESTORED AND REPLACED AFTER INSTALLATION OF SANITARY UTILITY.
 - CONTRACTOR SHALL PROTECT IRRIGATION VALVES.
 - LOCATE IRRIGATION MAIN AND LATERALS. PROTECT THE IRRIGATION MAIN AND WIRES. IF NEEDED TO COMPLETE THE WORK OUT THE LATERAL LINES, CAP AND REPAIR WHEN FILLING TRENCH. IF DAMAGE TO IRRIGATION MAIN OR WIRES REPAIR IMMEDIATELY. IF DAMAGE TO LATERALS OCCURS CUT, CAP AND REPAIR WHEN FILLING. WHEN REPAIRING FLUSH LINES, TEST ZONES, CLEAN OUT HEADS NOT WORKING PROPERLY.



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NOVEMBER 2016**

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PALM BEACH GARDENS, FLORIDA 33410
EB 0000072 AA C000656 LC 26000188

OKEEHEELEE PARK SOUTH
BOAT LAUNCH AND RESTROOM FACILITY
PALM BEACH COUNTY, FLORIDA

CML
DEMOLITION SITE PLAN

SHEET	5 OF 51
DWG	DM1
DATE	NOVEMBER 2016
PROJ	409534

Plotted: November 18, 2016

DM1-DEMOLITION SITE PLAN.dwg

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TREES TO BE REMOVED				
TREE NO.	TYPE	SIZE	NORTHING	EASTING
74	PINE	6"	841744.631	928989.958

LEE PARK SOUTH
UNDARY SURVEY
BEACH COUNTY
NO. S-3-11-3166

OKEEHOLEE PARK SOUTH
SEE: BOUNDARY SURVEY
PALM BEACH COUNTY
DRAWING NO. S-3-11-3166

CATCH BASIN
GRATE = 17.63"
S. WER PLATE TOP = 13.42"
S. INV. 30° RCP = 11.77"
N. INV. 30° RCP = 11.84"

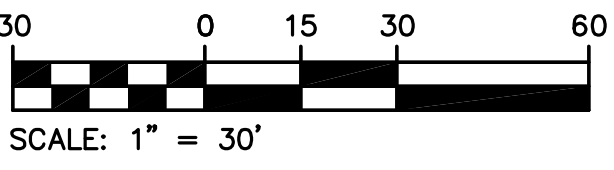
EXISTING TREE
TO BE REMOVED
BR-2
SITE BENCHMARK
SET MAG NAIL & WASHER
"BR-2 G MARK #5304"
ELEVATION 18.61 (NGVD29)
N 841759.1845
E 928972.5695

OKEEHOLEE PARK SOUTH
BOAT RAMP & RESTROOM BUILDING
SITE

20' LAKE MAINTENANCE EASEMENT

MATCHLINE SEE SHEET DM1

DEMOLITION LEGEND	
	PROJECT BOUNDARY
	SILT FENCE



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before you dig

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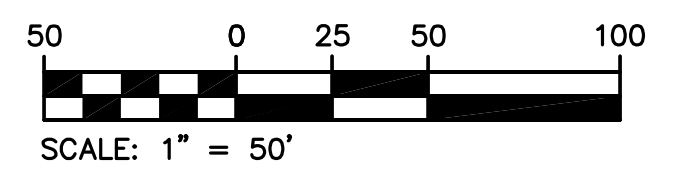
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OKEEHOLEE PARK SOUTH
BOAT LAUNCH AND RESTROOM FACILITY
PALM BEACH COUNTY, FLORIDA

CML
DEMOLITION SITE PLAN

SHEET	6 OF 51
DWG	DM2
DATE	NOVEMBER 2016
PROJ	409534



OKEEHEELEE PARK SOUTH
SEE: BOUNDARY SURVEY
PALM BEACH COUNTY
DRAWING NO. S-3-11-3166

OKEEHEELEE PARK SOUTH
SEE: BOUNDARY SURVEY
PALM BEACH COUNTY
DRAWING NO. S-3-11-3166

EXISTING FPL PAD
MOUNTED TRANSFORMER

PROJECT BOUNDARY

PARK ENTRANCE ROAD

BR-2
SITE BENCHMARK
SET MAG NAIL & WASHER
BR-2 G MARK #5304
ELEVATION: 15.61 (NGVD29)
N 841759.1845
E 928972.5695

SPLIT RAIL FENCE
(SEE DETAIL SHEET C21)
(TYP)

12' OPENING IN
SPLIT RAIL FENCE WITH
SINGLE CHAIN FOR
MAINTENANCE ACCESS

PROJECT BOUNDARY

6' OPENING IN
SPLIT RAIL FENCE FOR
PEDESTRIAN ACCESS

PROPOSED RESTROOM
FACILITY

JM BRANDON
EQUESTRIAN CENTER

PARK ENTRANCE ROAD

PARKING CLAMP
(TYPICAL)

BR-1
SITE BENCHMARK
SET MAG NAIL & WASHER
BR-1 G MARK #5304
ELEVATION: 15.35 (NGVD29)
N 841152.9755
E 928929.2605

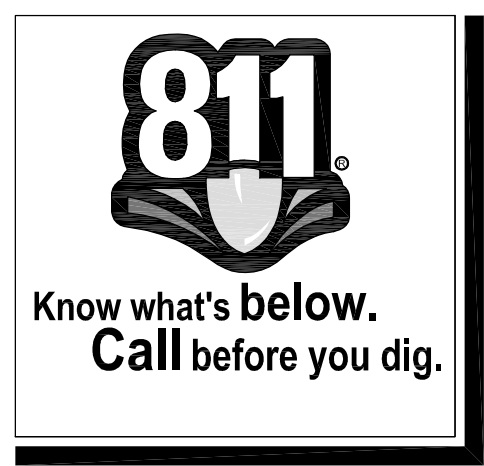
PROJECT BOUNDARY

LAKE CONTROL
ELEVATION = 13.00
FEET NGVD

PROPOSED FIXED PIER

PROPOSED BOAT LAUNCH

LEGEND	
	CONCRETE
	SAND
	FIXED PIER
	PROPOSED PAVEMENT
	PROPOSED RIP RAP
	PROJECT BOUNDARY



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CHK	J. VALLE						
APVD	D. STEVENSON	NO.	DATE	REVISION	BY	APVD	

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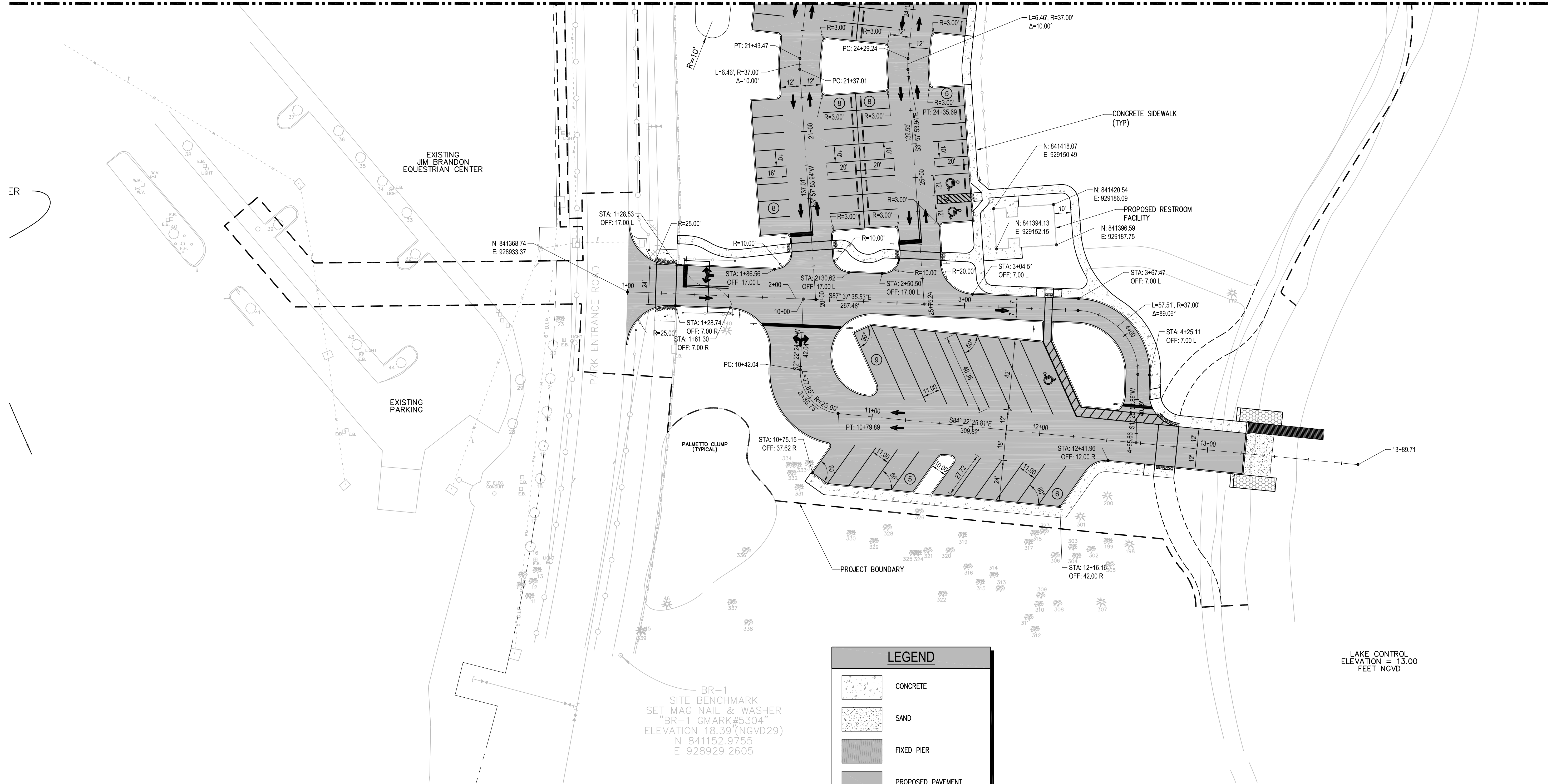
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OKEEHEELEE PARK SOUTH
BOAT LAUNCH AND RESTROOM FACILITY
PALM BEACH COUNTY, FLORIDA

CML
PROPOSED SITE PLAN

SHEET	7 of 51
DWG	C01
DATE	NOVEMBER 2016
PROJ	409534

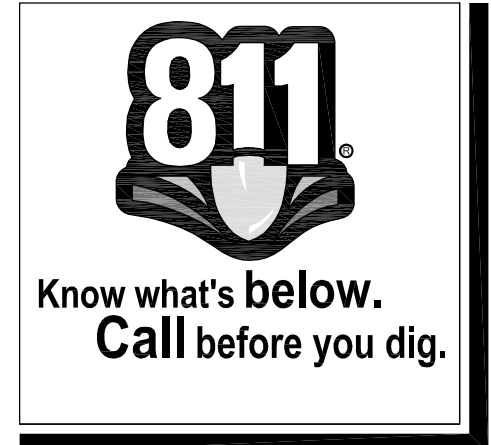
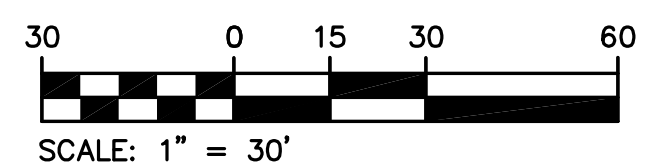
MATCHLINE SEE SHEET C03



BR-1
SITE BENCHMARK
SET MAG NAIL & WASHER
"BR-1 G MARK #5304"
ELEVATION 18.39' (NGVD29)
N 841152.9755
E 928929.2605

LEGEND

- CONCRETE
- SAND
- FIXED PIER
- PROPOSED PAVEMENT
- PROPOSED RIP RAP
- PROJECT BOUNDARY



CONSTRUCTION SET
NOVEMBER 2016

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DSGN	J. DEBRINCAT					
DR	D. ALMENDINGER					
CHK	J. VALLE					
APVD	J. DEBRINCAT	NO.	DATE	REVISION	BY	APVD

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

CH2MHILL
3001 PGA BOULEVARD, SUITE 300
PALM BEACH GARDENS, FLORIDA 33410
EB 0000072 AA C000656 LC 26000188

OKEEHEELEE PARK SOUTH
BOAT LAUNCH AND RESTROOM FACILITY
PALM BEACH COUNTY, FLORIDA

CML
HORIZONTAL CONTROL PLAN

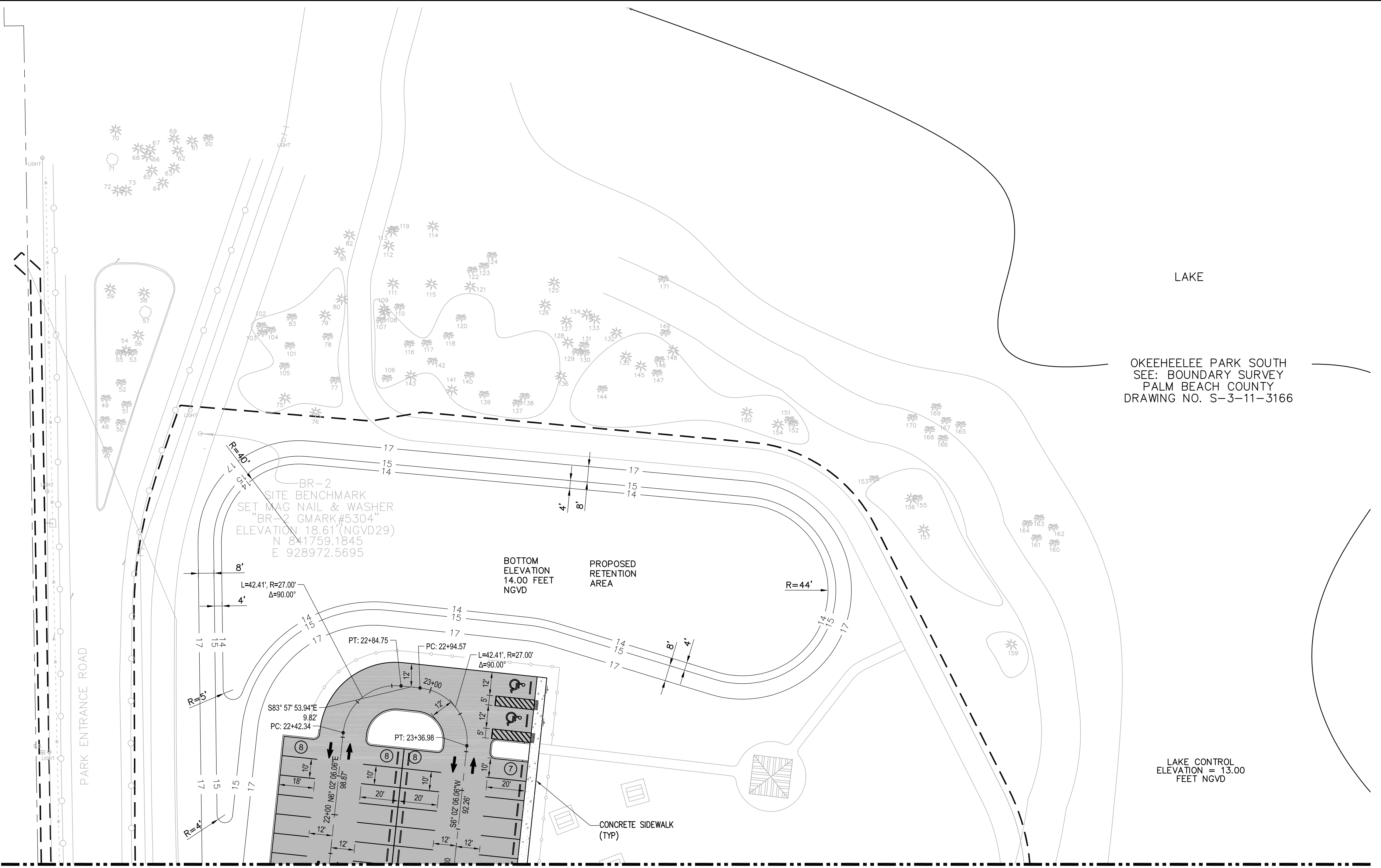
SHEET	8 OF 51
DWG	C02
DATE	NOVEMBER 2016
PROJ	409534

Plotted: November 18, 2016
C02-HORIZONTAL CONTROL PLAN.dwg

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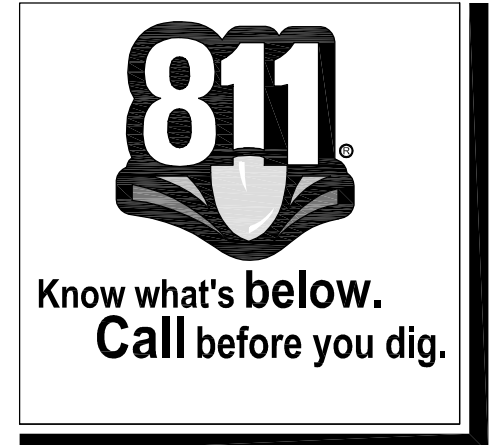
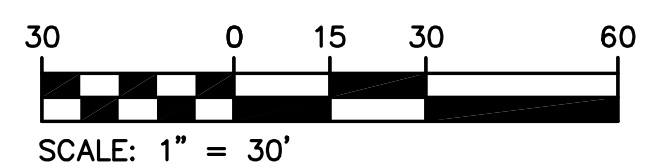
LEE PARK SOUTH
UNDARY SURVEY
BEACH COUNTY
NO. S-3-11-3166

OKEEHEELEE PARK SOUTH
SEE: BOUNDARY SURVEY
PALM BEACH COUNTY
DRAWING NO. S-3-11-3166



LEGEND

- CONCRETE
- SAND
- FIXED PIER
- PROPOSED PAVEMENT
- PROJECT BOUNDARY



CONSTRUCTION SET
NOVEMBER 2016

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DSGN	J. DEBRINCAT				
DR	D. ALMENDINGER				
CHK	J. VALLE				
APVD	J. DEBRINCAT	NO.	DATE	REVISION	BY

VERIFY SCALE
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CH2MHILL
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PALM BEACH GARDENS, FLORIDA 33410
EB 0000072 AA C000656 LC 26000188

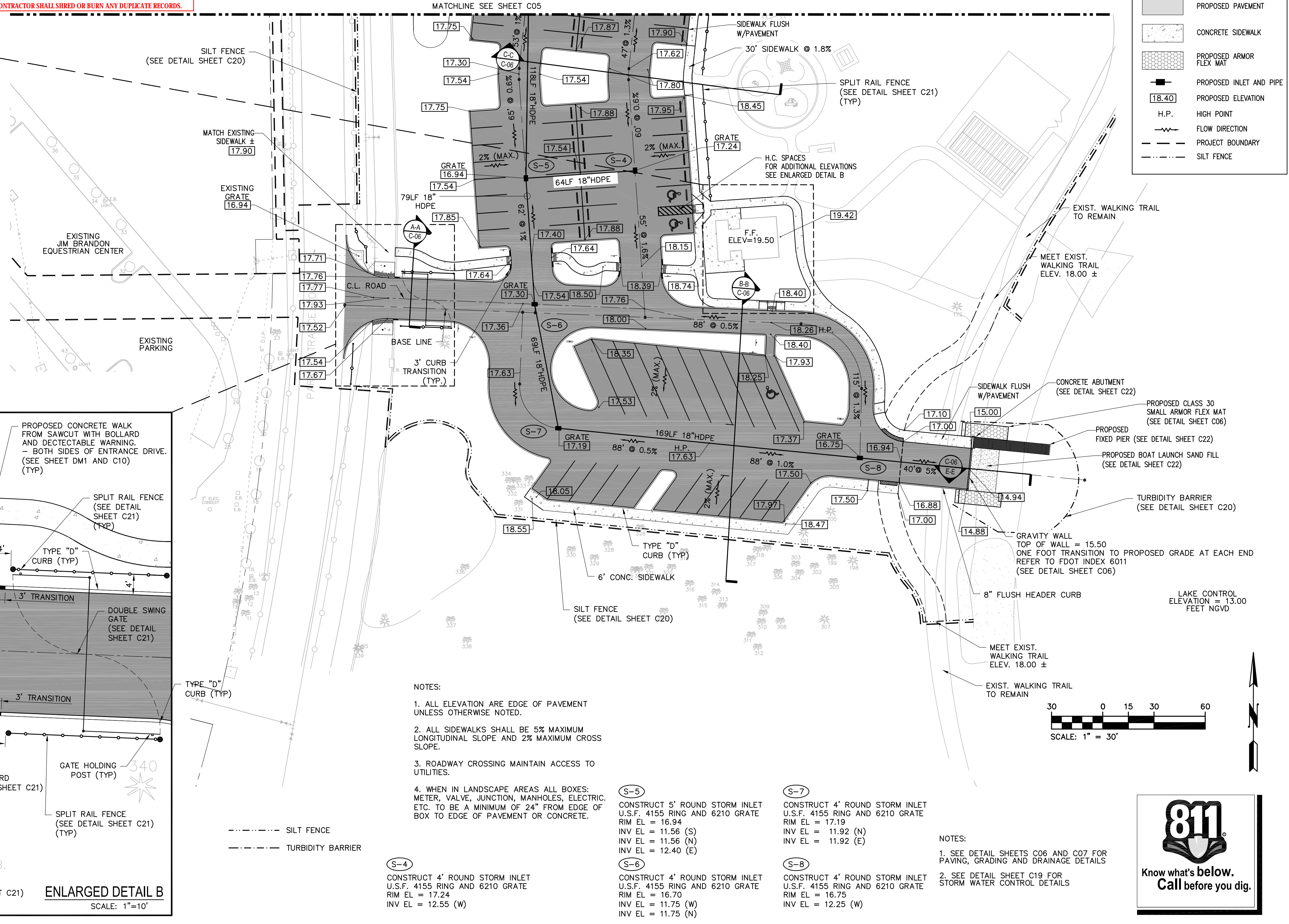
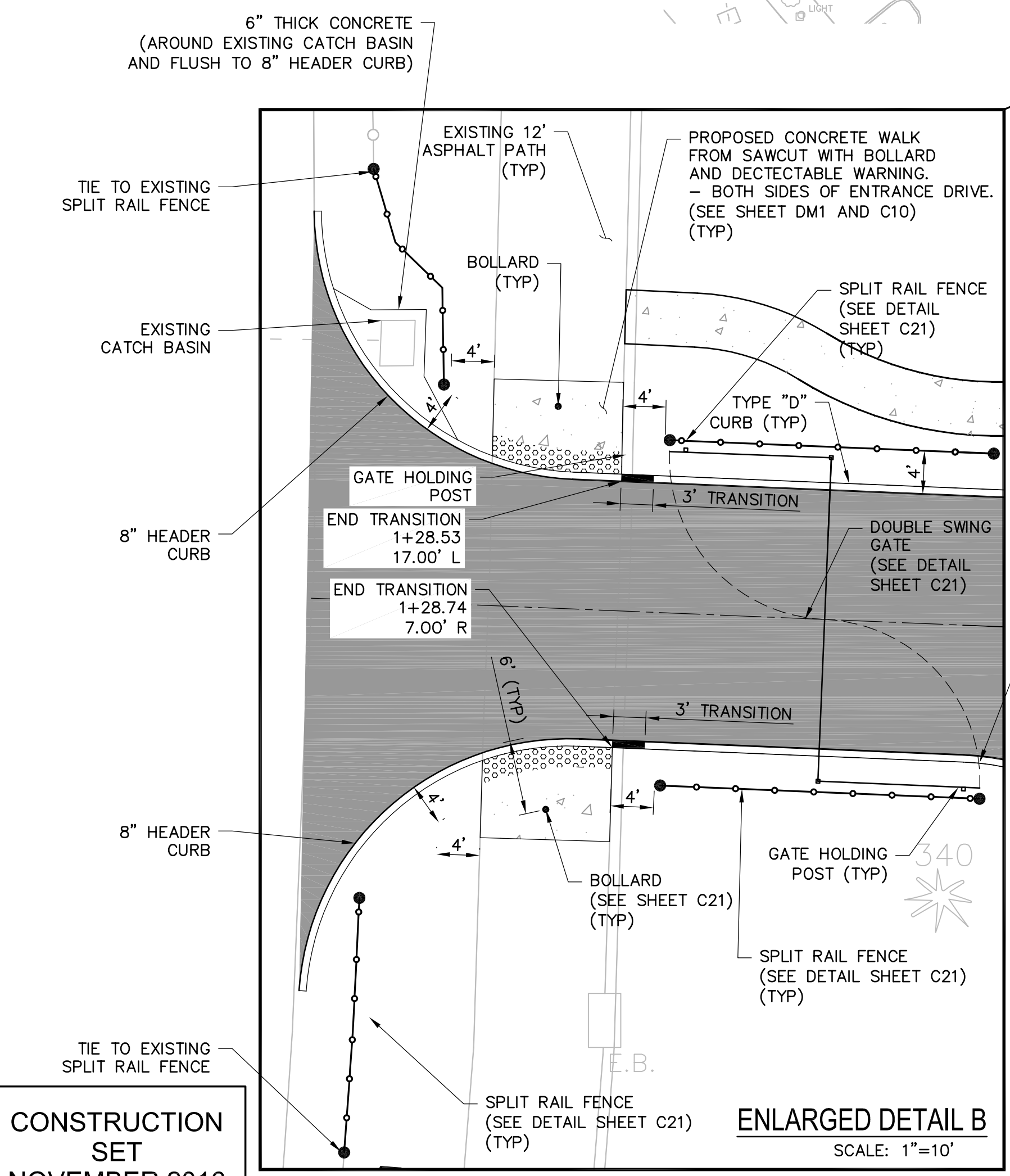
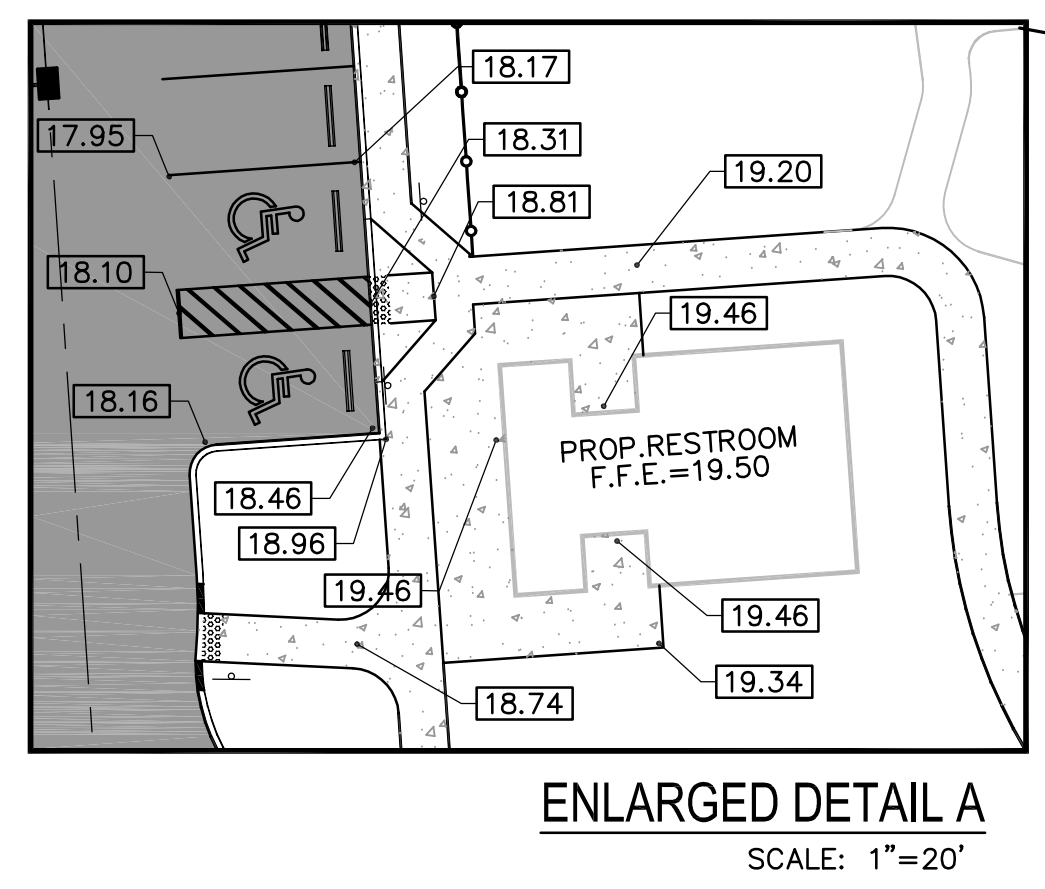
OKEEHEELEE PARK SOUTH
BOAT LAUNCH AND RESTROOM FACILITY
PALM BEACH COUNTY, FLORIDA

CML
HORIZONTAL CONTROL PLAN

SHEET	9 OF 51
DWG	C03
DATE	NOVEMBER 2016
PROJ	409534

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LEGEND	
	PROPOSED PAVEMENT
	CONCRETE SIDEWALK
	PROPOSED ARMOR FLEX MAT
	PROPOSED INLET AND PIPE
	PROPOSED ELEVATION
	H.P. HIGH POINT
	FLOW DIRECTION
	PROJECT BOUNDARY
	SILT FENCE



- NOTES:**
1. ALL ELEVATION ARE EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.
 2. ALL SIDEWALKS SHALL BE 5% MAXIMUM LONGITUDINAL SLOPE AND 2% MAXIMUM CROSS SLOPE.
 3. ROADWAY CROSSING MAINTAIN ACCESS TO UTILITIES.
 4. WHEN IN LANDSCAPE AREAS ALL BOXES: METER, VALVE, JUNCTION, MANHOLES, ELECTRIC, ETC. TO BE A MINIMUM OF 24" FROM EDGE OF BOX TO EDGE OF PAVEMENT OR CONCRETE.

S-4
CONSTRUCT 4" ROUND STORM INLET U.S.F. 4155 RING AND 6210 GRATE
RIM EL = 17.24
INV EL = 12.55 (W)

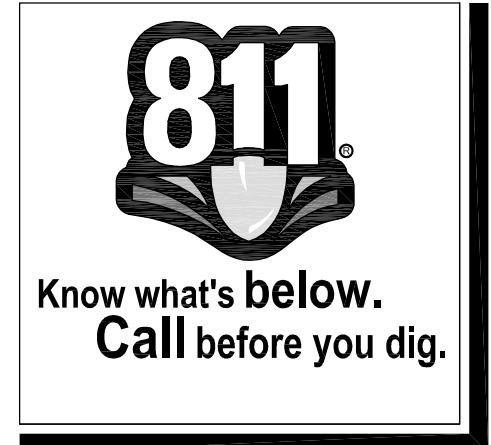
S-5
CONSTRUCT 5" ROUND STORM INLET U.S.F. 4155 RING AND 6210 GRATE
RIM EL = 16.94
INV EL = 11.56 (S)
INV EL = 11.56 (N)
INV EL = 12.40 (E)

S-6
CONSTRUCT 4" ROUND STORM INLET U.S.F. 4155 RING AND 6210 GRATE
RIM EL = 16.70
INV EL = 11.75 (W)
INV EL = 11.75 (N)

S-7
CONSTRUCT 4" ROUND STORM INLET U.S.F. 4155 RING AND 6210 GRATE
RIM EL = 17.19
INV EL = 11.92 (N)
INV EL = 11.92 (E)

S-8
CONSTRUCT 4" ROUND STORM INLET U.S.F. 4155 RING AND 6210 GRATE
RIM EL = 16.75
INV EL = 12.25 (W)
INV EL = 12.25 (E)

- NOTES:**
1. SEE DETAIL SHEETS C06 AND C07 FOR PAVING, GRADING AND DRAINAGE DETAILS
 2. SEE DETAIL SHEET C19 FOR STORM WATER CONTROL DETAILS



C04--PAVING GRADING AND DRAINAGE PLAN.dwg Plotted: November 17, 2016

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DSGN	J. DEBRINCAT	NO.	DATE	REVISION	BY	APVD	VERIFY SCALE	<p>CH2MHILL 3001 PGA BOULEVARD, SUITE 300 PALM BEACH GARDENS, FLORIDA 33410 EB 0000072 AA C000656 LC 26000188</p>	<p>OKEEHEELEE PARK SOUTH BOAT LAUNCH AND RESTROOM FACILITY PALM BEACH COUNTY, FLORIDA</p>	CIVIL	SHEET 10 OF 51		
DR	D. ALMENDINGER						BAR IS ONE INCH ON ORIGINAL DRAWING.			<p>PAVING, GRADING AND DRAINAGE PLAN</p>		DWG C04	
CHK	M. LANDRUM						0					DATE	NOVEMBER 2016
APVD	D. STEVENSON						IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.					PROJ	409534

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LEE PARK SOUTH
UNDARY SURVEY
BEACH COUNTY
NO. S-3-11-3166

OKEEHEELEE PARK SOUTH
SEE: BOUNDARY SURVEY
PALM BEACH COUNTY
DRAWING NO. S-3-11-3166

SILT FENCE
(SEE DETAIL SHEET C20)

LAKE

LAKE CONTROL
ELEVATION = 13.00
FEET NGVD

PARK ENTRANCE ROAD

BR-2
SITE BENCHMARK
SET MAG NAIL & WASHER
"BR-2 GMARK #5304"
ELEVATION 18.61 (NGVD)
N 841759.1845
E 928972.5695

GRATE
16.00
DITCH BOTTOM INLET
TYPE "C"
INV EL. = 9.50

BOTTOM
ELEVATION
14.00 FEET
NGVD

PROPOSED
RETENTION
AREA

SIDEWALK FLUSH
W/PAVEMENT

SPLIT RAIL FENCE
(SEE DETAIL SHEET C21)
(TYP)

SILT FENCE
(SEE DETAIL SHEET C20)

GRATE
16.75
64LF 18" HDPE

MATCHLINE SEE SHEET C04

LEGEND	
	PROPOSED PAVEMENT
	CONCRETE SIDEWALK
	PROPOSED INLET AND PIPE
	PROPOSED ELEVATION
	H.P. HIGH POINT
	FLOW DIRECTION
	PROJECT BOUNDARY
	SILT FENCE

S-1
CONSTRUCT DITCH BOTTOM INLET
RIM EL = 16.00
INV EL = 9.50 (S)

S-2
CONSTRUCT 4' ROUND STORM INLET
U.S.F. 4155 RING AND 6210 GRATE
RIM EL = 17.00
INV EL = 12.40 (W)

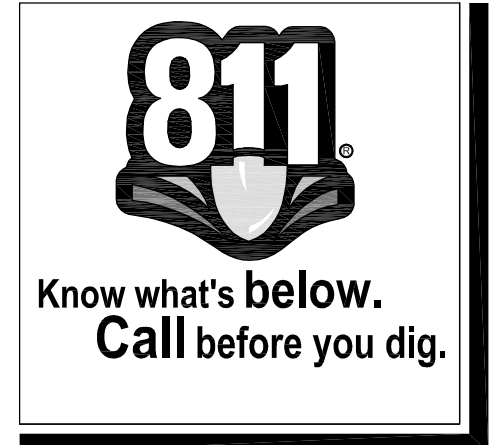
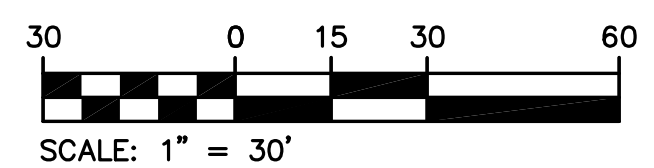
S-3
CONSTRUCT 4' ROUND STORM INLET
U.S.F. 4155 RING AND 6210 GRATE
RIM EL = 16.75
INV EL = 11.27 (S)
INV EL = 9.73 (N)
INV EL = 12.25 (E)

NOTES:

- ALL ELEVATION ARE EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.
- ALL SIDEWALKS SHALL BE 5% MAXIMUM LONGITUDINAL SLOPE AND 2% MAXIMUM CROSS SLOPE.
- ROADWAY CROSSING MAINTAIN ACCESS TO UTILITIES.
- WHEN IN LANDSCAPE AREAS ALL BOXES: METER, VALVE, JUNCTION, MANHOLES, ELECTRIC, ETC. TO BE A MINIMUM OF 24" FROM EDGE OF BOX TO EDGE OF PAVEMENT OR CONCRETE.

NOTES:

- SEE DETAIL SHEETS C06 AND C07 FOR PAVING, GRADING AND DRAINAGE DETAILS
- SEE DETAIL SHEET C19 FOR STORM WATER CONTROL DETAILS



CONSTRUCTION SET
NOVEMBER 2016

DSGN	J. DEBRINCAT				
DR	D. ALMENDINGER				
CHK	M. LANDRUM				
APVD	D. STEVENSON	NO.	DATE	REVISION	BY

VERIFY SCALE
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CH2MHILL
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PALM BEACH GARDENS, FLORIDA 33410
EB 0000072 AA C000656 LC 26000188

OKEEHEELEE PARK SOUTH
BOAT LAUNCH AND RESTROOM FACILITY
PALM BEACH COUNTY, FLORIDA

CML
PAVING, GRADING AND DRAINAGE PLAN

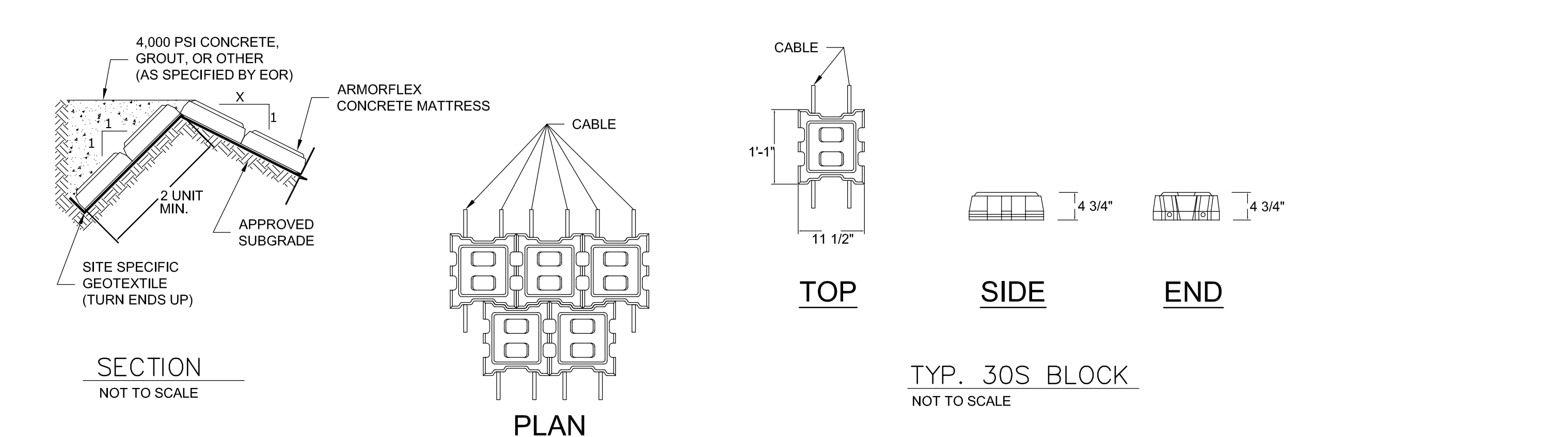
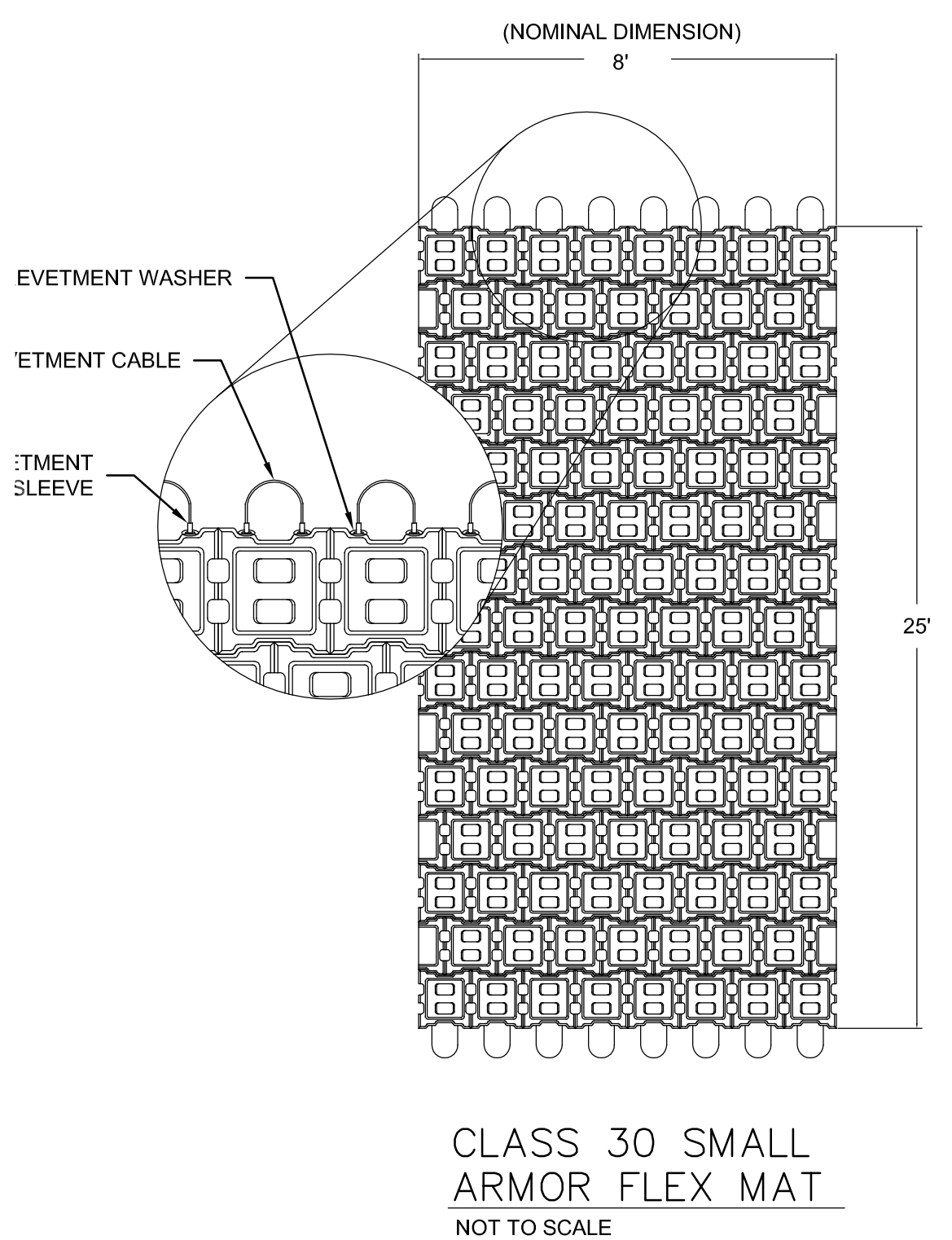
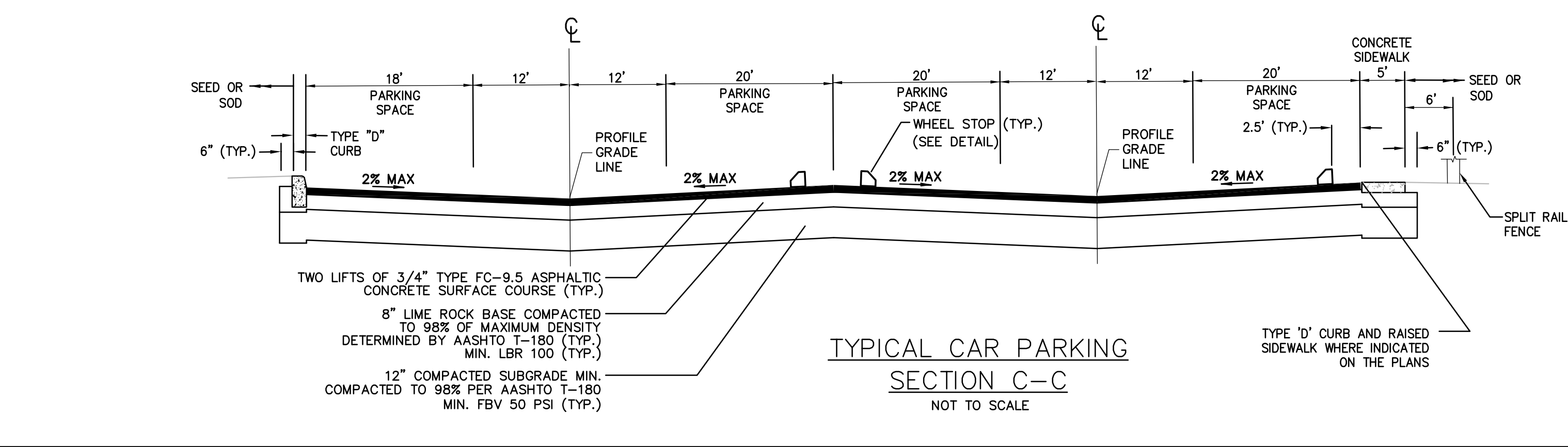
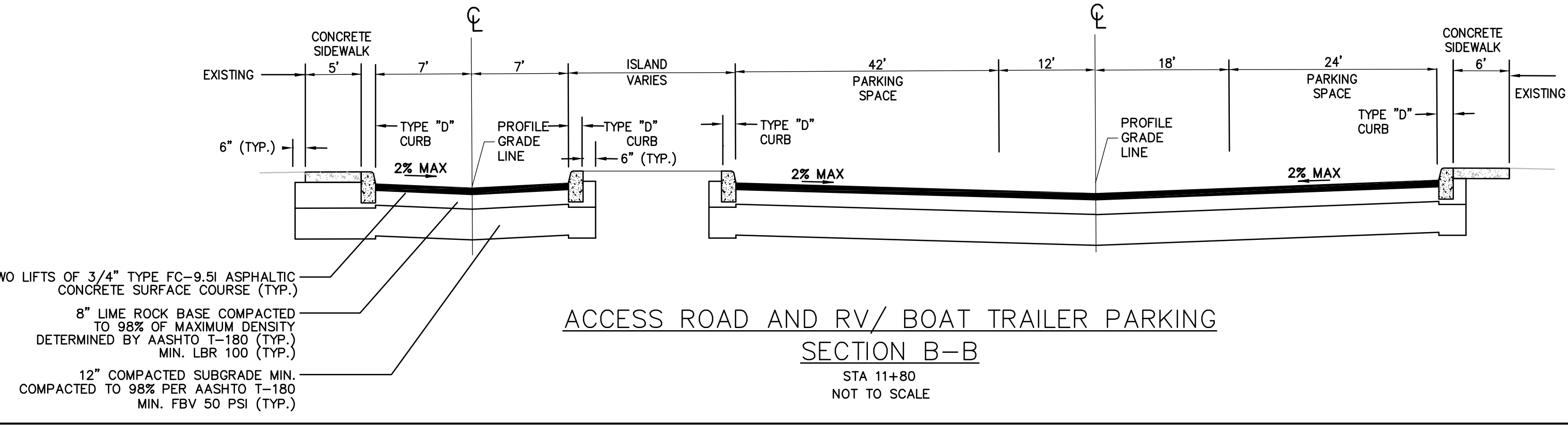
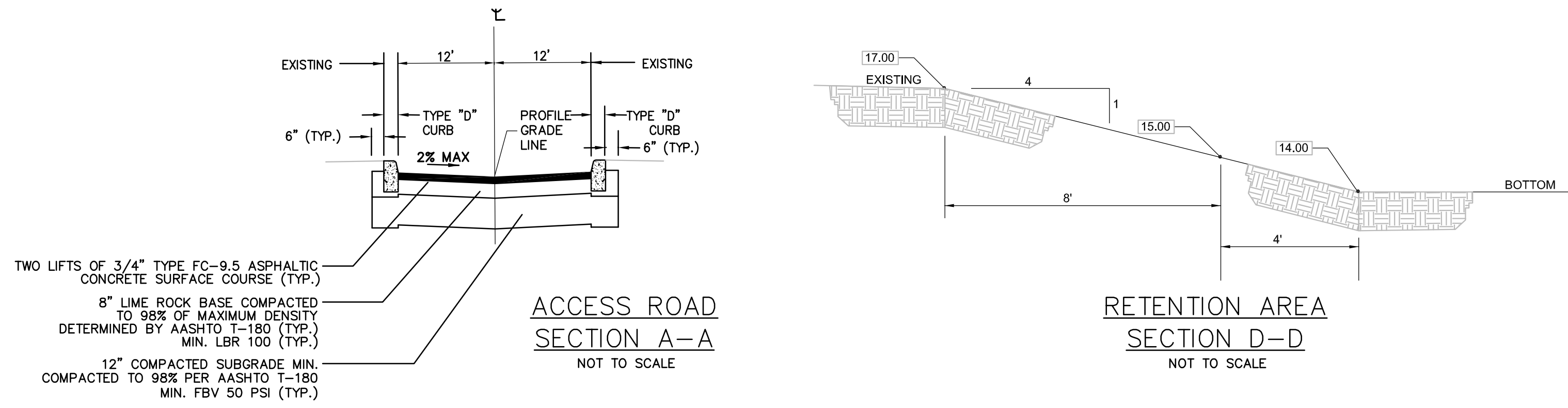
SHEET	11 OF 51
DWG	C05
DATE	NOVEMBER 2016
PROJ	409534

C05-PAVING GRADING AND DRAINAGE PLAN.dwg Plotted: November 18, 2016

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PAVING AND DRAINAGE GENERAL NOTES

- ALL PAVING AND DRAINAGE CONSTRUCTION SHALL CONFORM TO PALM BEACH COUNTY AND FLORIDA D.O.T. STANDARDS AND SPECIFICATIONS.
- WHEN GUMBO OR OTHER PLASTIC CLAYS ARE ENCOUNTERED, THEY SHALL BE REMOVED IN ACCORDANCE WITH FDOT INDEX 500.
- IF MUCK IS ENCOUNTERED, IT SHALL BE COMPLETELY REMOVED IN ACCORDANCE WITH FDOT INDEX 500.
- LOCATIONS OF DRAINAGE STRUCTURES SHALL GOVERN AND PIPE LENGTHS MAY HAVE TO BE ADJUSTED TO ACCOMPLISH CONSTRUCTION AS SHOWN ON THESE PLANS.
- ALL UNDERGROUND UTILITIES, ETC., SHALL BE IN PLACE PRIOR TO SUB GRADE COMPACTION AND ROADWAY CONSTRUCTION.
- ALL ELEVATIONS SHOWN HEREON REFER TO N.G.V.D.
- ALL SIGNING AND PAVEMENT MARKING SHALL CONFORM TO THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES."
- NO CONSTRUCTION SHALL COMMENCE UNTIL ALL REQUIRED PERMITS AND APPROVALS HAVE BEEN SECURED AND THE CONTRACTOR IS ISSUED A NOTICE TO PROCEED.
- THE CONTRACTOR SHALL CALL SUNSHINE 1-800-432-4770 (TOLL FREE) 48 HOURS BEFORE DIGGING FOR FIELD LOCATION OF UNDERGROUND UTILITIES.
- THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION IN AREAS OF BURIED UTILITY CABLES, SANITARY LINES AND WATER LINES, AND SHALL BE RESPONSIBLE FOR ANY AND ALL DAMAGE TO EXISTING UTILITIES CAUSED BY HIS OPERATIONS.
- THE LOCATIONS OF EXISTING UTILITIES SHOWN IN THE PLANS ARE APPROXIMATE ONLY. THE EXACT LOCATIONS SHALL BE DETERMINED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. IN ADDITION, THE CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY IF "OTHER" UTILITIES (NOT SHOWN IN THE PLANS) EXIST WITHIN THE AREA OF CONSTRUCTION SHOULD THERE BE "OTHER" UTILITIES. IF UTILITIES WOULD CONFLICT, THE CONTRACTOR SHALL CONTACT THE ENGINEER FOR RESOLUTION PRIOR TO INSTALLATION OF NEW UTILITY.
- CONTRACTOR TO USE TRENCH BOXES OR SHORING IN AREAS OF EXIST. TREE PRESERVATION WITHIN THE R/W TO MINIMIZE DAMAGE TO EXIST. TREES.
- NO RECYCLED ASPHALT MATERIAL OR AGGREGATE MATERIAL SHALL BE USED IN ROAD PAVING
- REMOVE ALL SHELLROCK FROM ISLANDS AND MEDIANS THAT IS MORE THAN 6" FROM BACK OF PAVEMENT OR CURB.



GENERAL NOTES

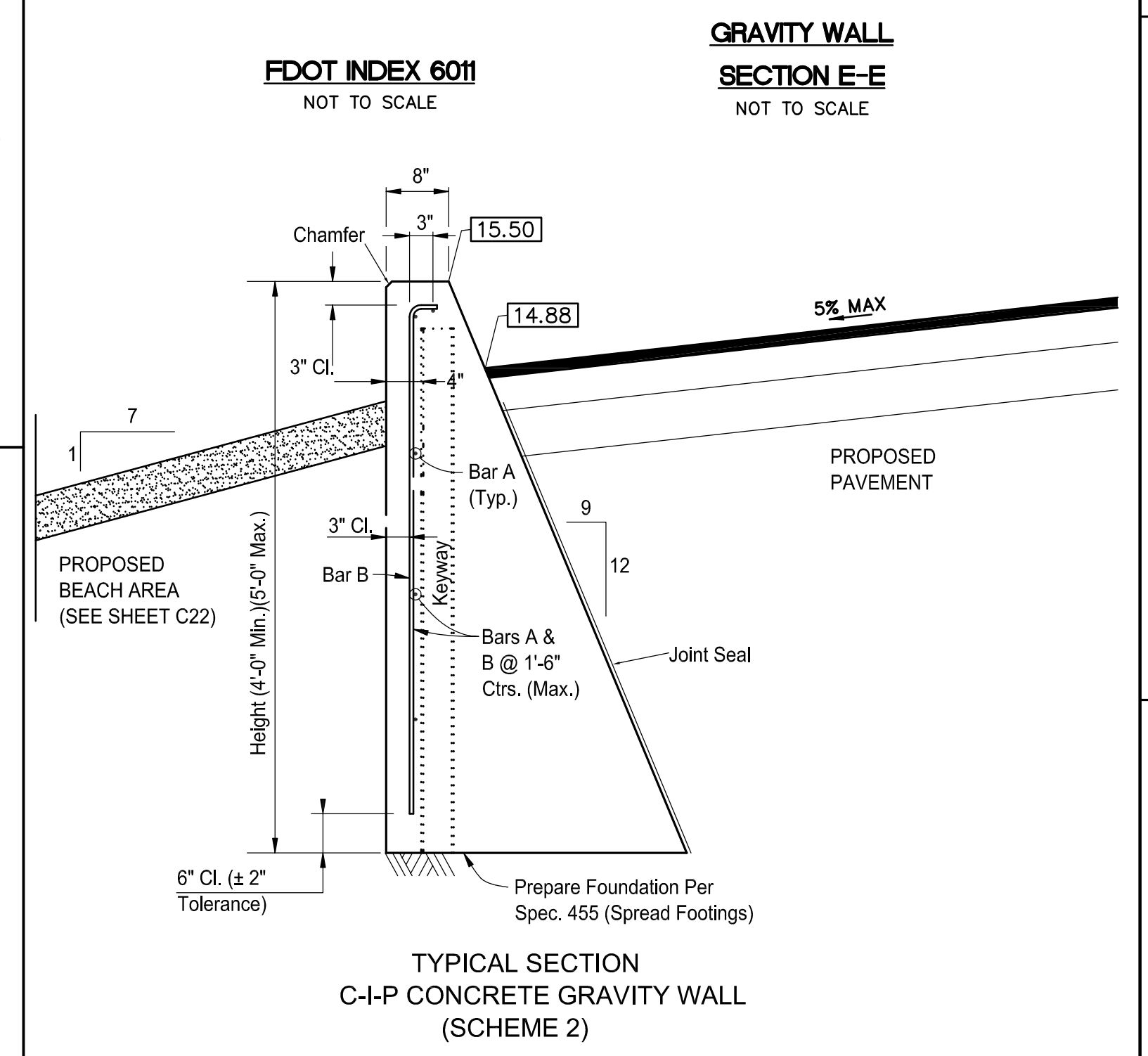
- C-I-P Gravity Walls (SCHEME 2) constructed as extensions of reinforced concrete retaining walls, except walls of proprietary designs, shall have the same face texture and finish as the reinforced concrete retaining wall.
- Concrete for Gravity Wall shall be Class NS per Section 347.
- Reinforcing steel shall meet the requirements of Specification Section 931 (Grade 40 or 60). Smooth or Deformed Welded Wire Reinforcement (WWR) may be substituted on an equal area basis. Do not increase bar/wire spacing for Grade 60 reinforcing steel or WWR.
- Joint seal to be two layers of 30# smooth roofing paper or Type D-5 geotextile fabric in accordance with Specification Section 985. Mop all contact surfaces of concrete and roofing paper or geotextile fabric with cut-back asphalt. Stop roofing paper or geotextile fabric 6\"/>
- Cost of reinforcing steel, face texture, finish, joint seal and geotextile fabric to be included in the Contract Unit Price for Concrete Class NS, Gravity Wall.

ESTIMATED QUANTITIES FOR C-I-P WALL				
HEIGHT (FT.)	PER LINEAR FOOT OF WALL			REINF. STEEL (LB.)
	CLASS NS CONCRETE (CY)			
	SCHEME 1	SCHEME 2	SCHEME 3 **	
1'	0.08	0.11 (0.20*)	0.03	3 (4*)
2'	0.14	0.20 (0.32*)	0.09	4 (5*)
3'	0.22	0.32 (0.47*)	0.29	5 (6*)
4'	0.32	0.47 (0.65*)	0.43	6 (7*)
5'	0.43	0.65 (0.85*)	0.60	7 (8*)

ESTIMATED QUANTITIES NOTES:

For Scheme 3 Junction Slab and Traffic Railing see the referenced Design Standards for estimated quantities.

* Quantity for 2'-0" Toe Depth in Scheme 2.
 ** Quantity for Scheme 3 assumes 1'-3" thick coping above Gravity Wall.



CONSTRUCTION SET
NOVEMBER 2016

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DSGN	DR	CHK	APVD	NO.	DATE	REVISION	BY	APVD
J. DEBRINCAT	D. ALMENDINGER	J. VALLE	J. DEBRINCAT					

VERIFY SCALE
 BAR IS ONE INCH ON ORIGINAL DRAWING.
 0 1"
 IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

CH2MHILL
 3001 PGA BOULEVARD, SUITE 300
 PALM BEACH GARDENS, FLORIDA 33410
 EB 0000072 AA C000656 LC 26000188

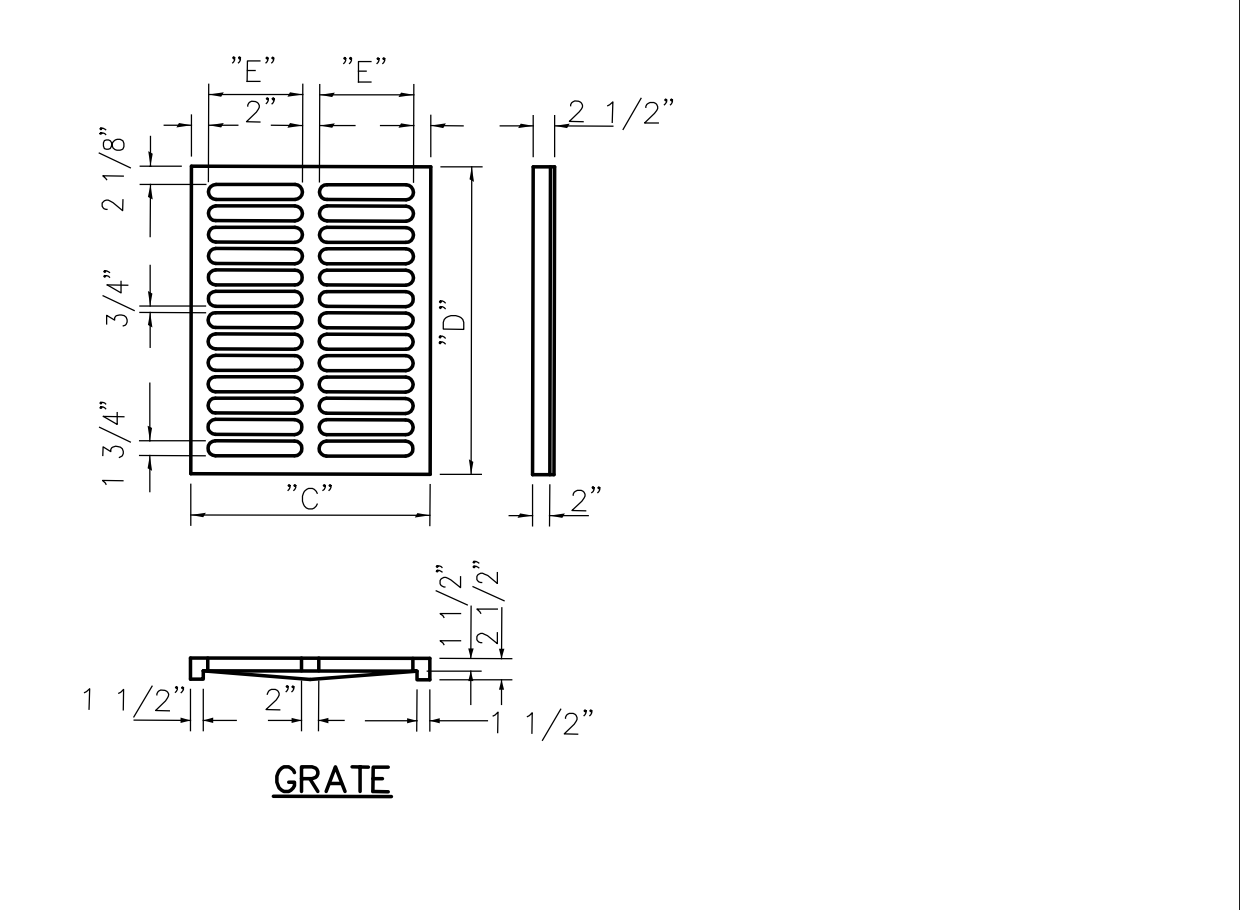
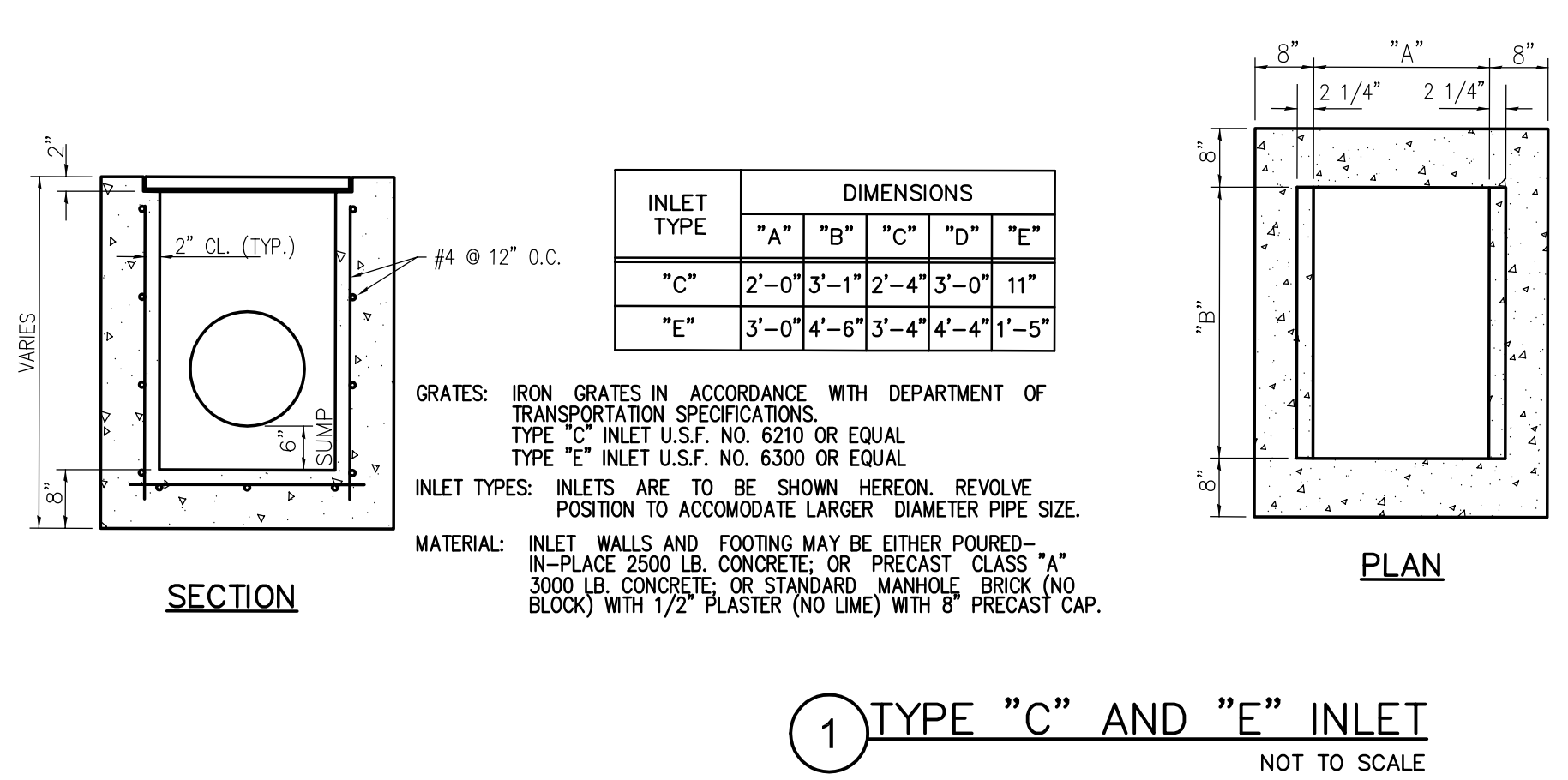
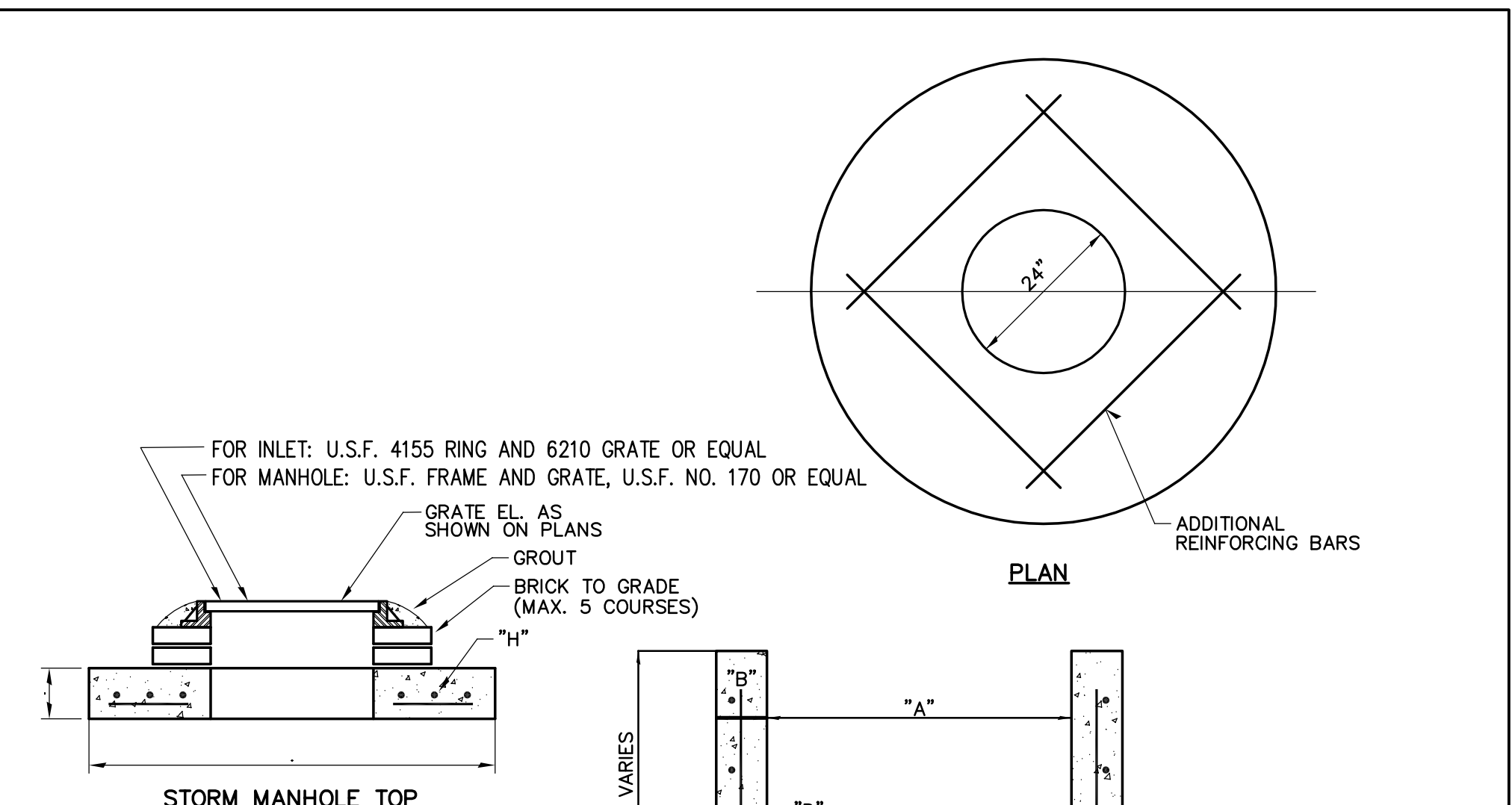
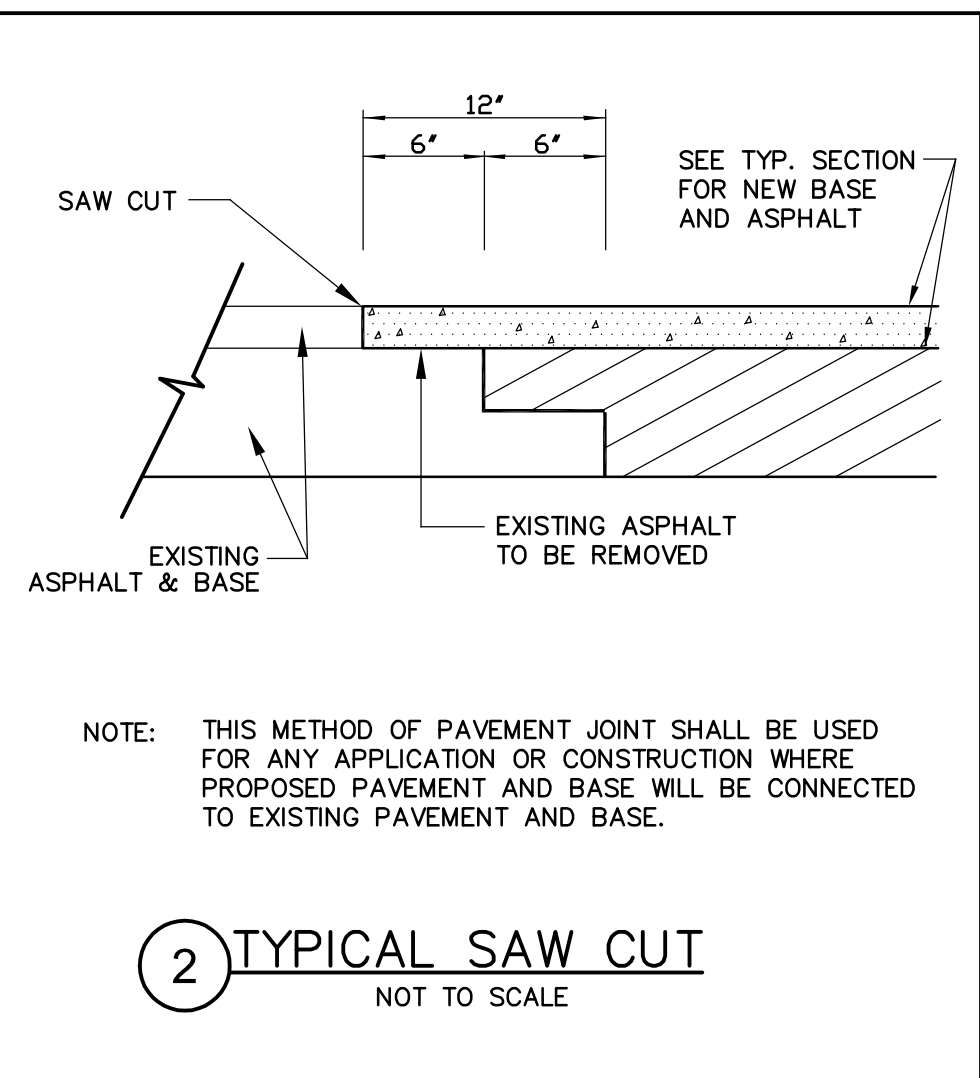
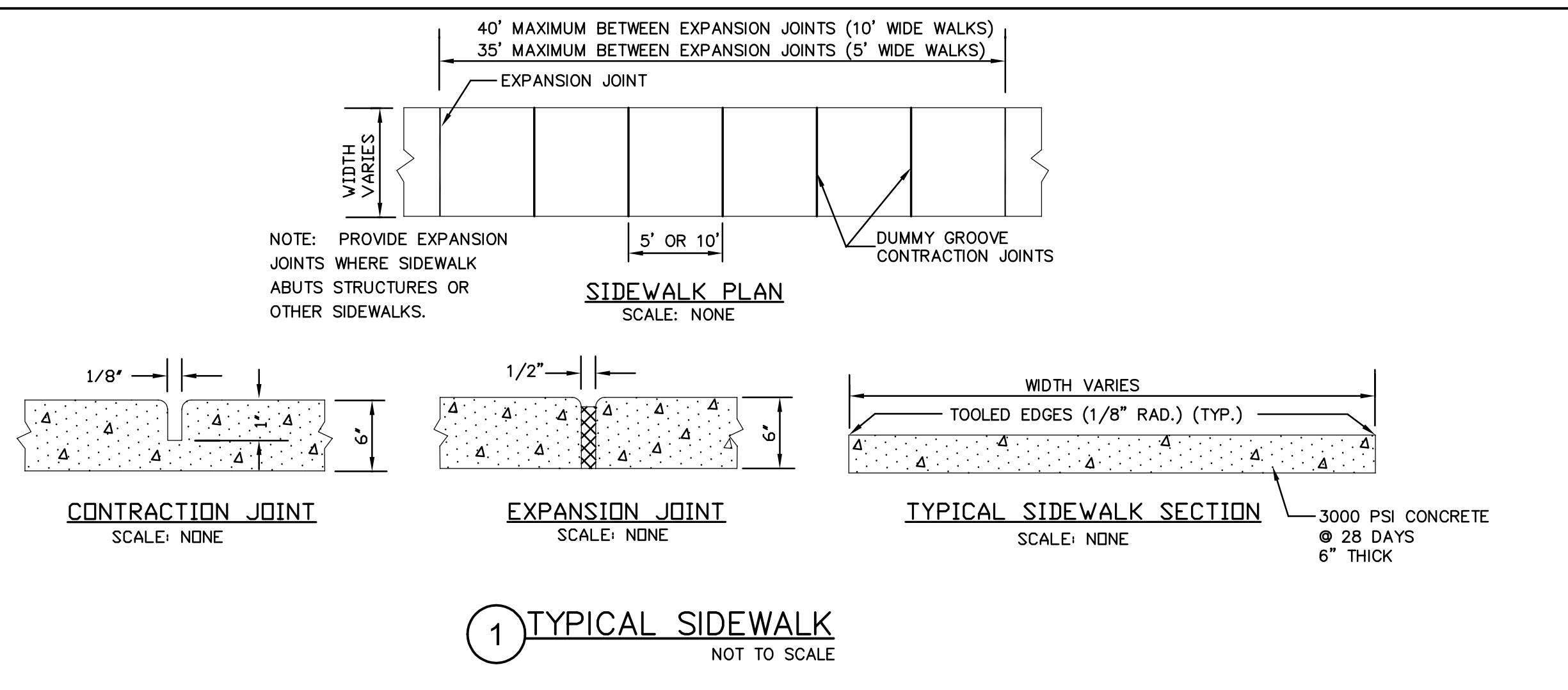
OKEEHEELEE PARK SOUTH
 BOAT LAUNCH AND RESTROOM FACILITY
 PALM BEACH COUNTY, FLORIDA

CML
PAVING, DRAINAGE, AND GRADING DETAILS
PROFILES

SHEET **12 OF 51**
 DWG **C06**
 DATE **NOVEMBER 2016**
 PROJ **409534**

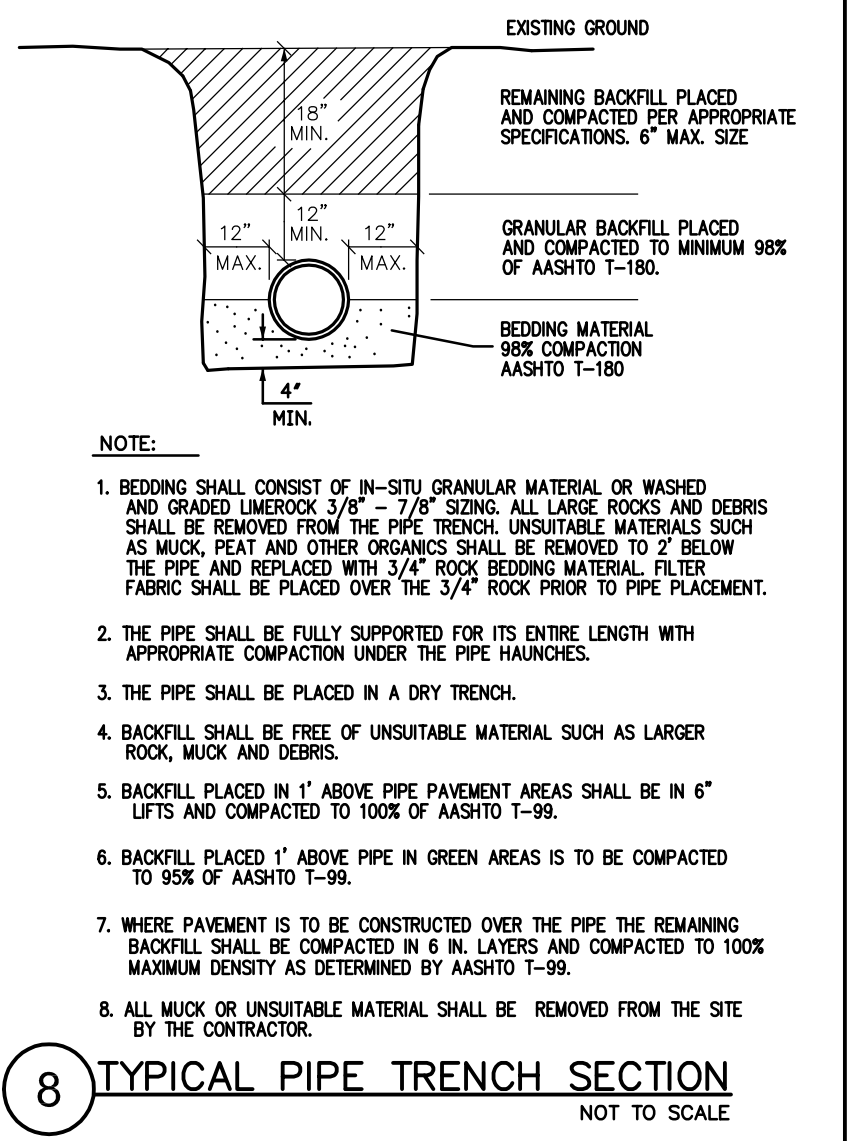
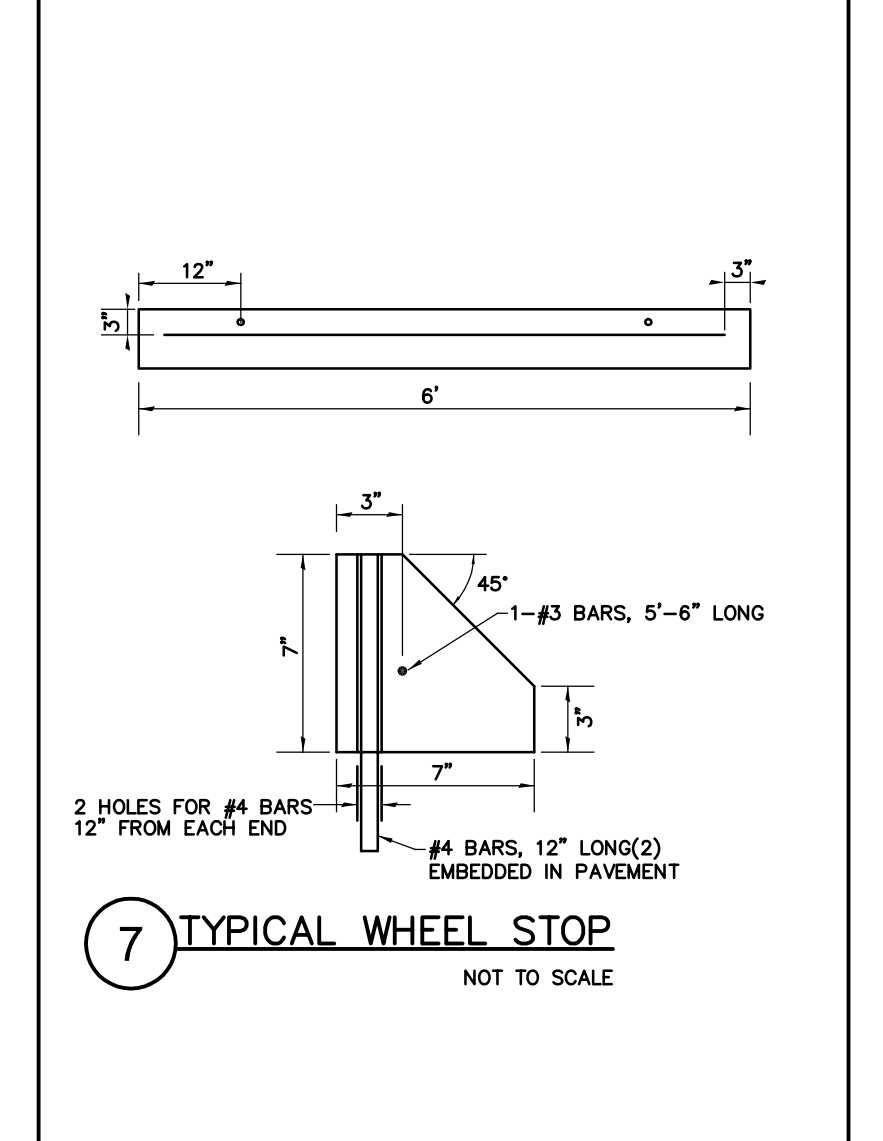
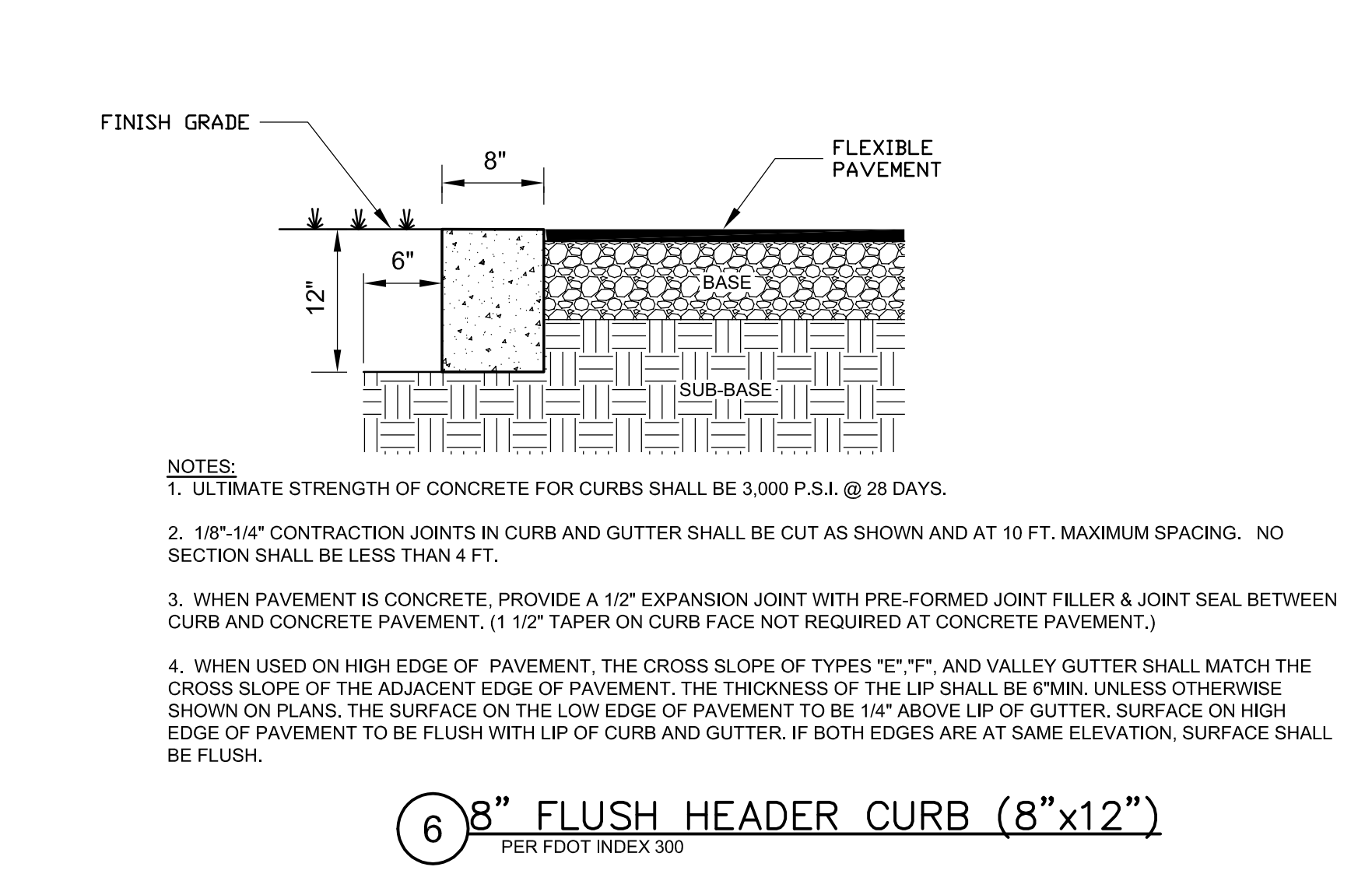
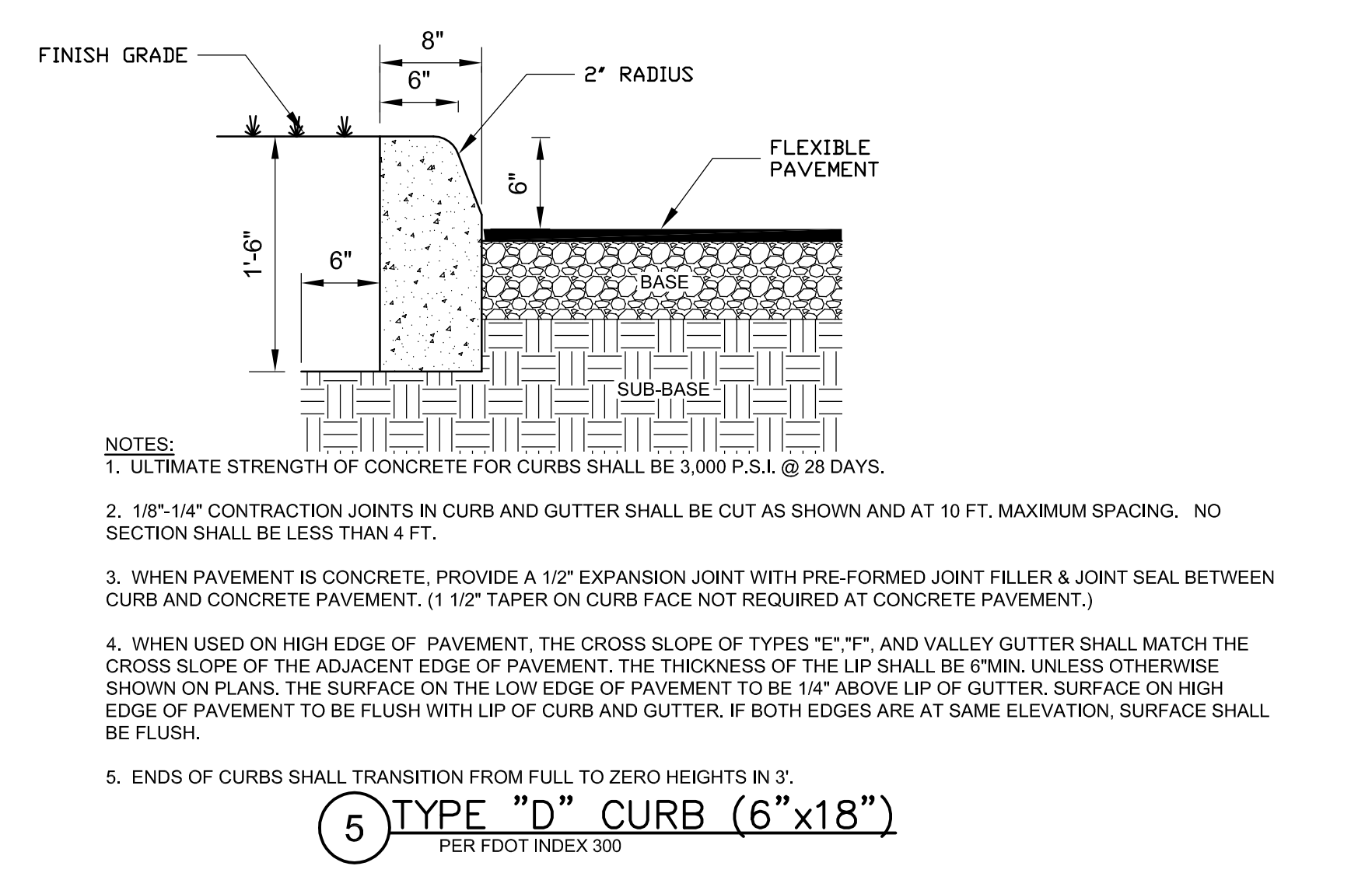
C06-PAVING GRADING AND DRAINAGE DETAILS.dwg Plotted: November 17, 2016

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"A"	"B"	"C"	"D"	"E"	"F"	"G"	"H"
4'-0"φ	8"	#4 @ 12" C.C.E.W.	#4 @ 12" C.C.E.W.	6'-4"φ	5'-4"φ	#4 @ 6" C.C.E.W.	
5'-0"φ	8"	#5 @ 12" C.C.E.W.	#5 @ 12" C.C.E.W.	7'-4"φ	6'-4"φ	#5 @ 8" C.C.E.W.	
6'-0"φ	8"	#5 @ 12" C.C.E.W.	#5 @ 6" C.C.E.W.	8'-4"φ	7'-4"φ	#5 @ 6" C.C.E.W.	
7'-0"φ	8"	#5 @ 12" C.C.E.W.	#5 @ 6" C.C.E.W.	9'-4"φ	8'-4"φ	#5 @ 6" C.C.E.W.	
8'-0"φ	10"	2-W.W.M. W/ #4 @ 12" C.C. VERT	#5 @ 6" C.C.E.W.	10'-8"φ	9'-8"φ	#5 @ 6" C.C.E.W.	

4 STORM MANHOLE
NOT TO SCALE



C07-PAVING GRADING AND DRAINAGE DETAILS.dwg Plotted: November 18, 2016

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CONSTRUCTION SET
NOVEMBER 2016

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DSGN	J. DEBRINCAT				
DR	D. ALMENDINGER				
CHK	J. VALLE				
APVD	J. DEBRINCAT	NO.	DATE	REVISION	BY

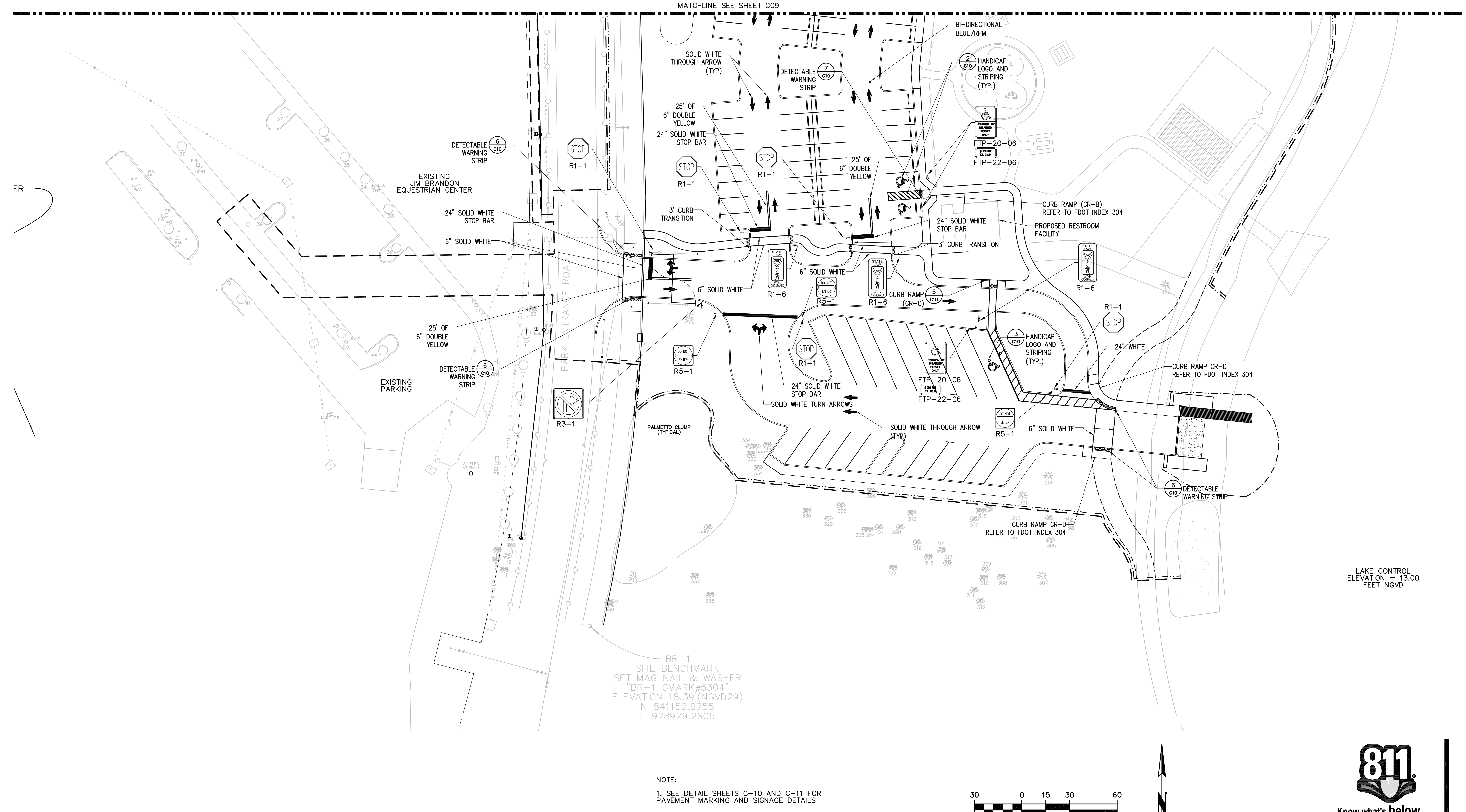
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3001 PGA BOULEVARD, SUITE 300
PALM BEACH GARDENS, FLORIDA 33410
EB 0000072 AA C000656 LC 26000188

OKEEHEELEE PARK SOUTH
BOAT LAUNCH AND RESTROOM FACILITY
PALM BEACH COUNTY, FLORIDA

CML
PAVING, DRAINAGE, AND GRADING DETAILS

SHEET	13 OF 51
DWG	C07
DATE	NOVEMBER 2016
PROJ	409534



CONSTRUCTION SET
NOVEMBER 2016

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DR	D. ALMENDINGER						
CHK	M. LANDRUM						
APVD	J. VALLE	NO.	DATE	REVISION	BY	APVD	

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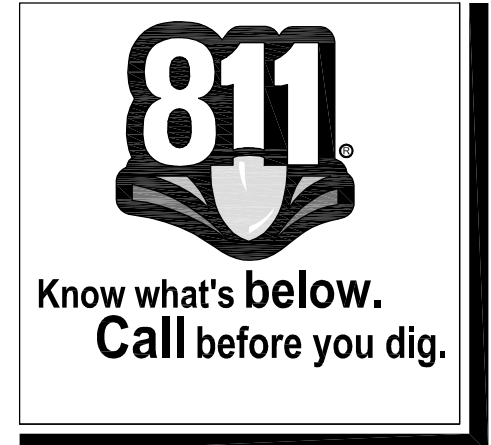
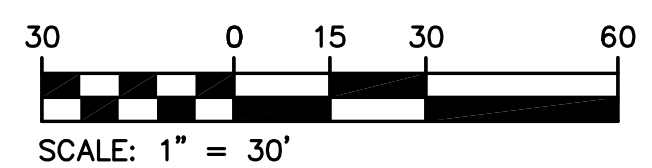
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OKEEHEELEE PARK SOUTH
BOAT LAUNCH AND RESTROOM FACILITY
PALM BEACH COUNTY, FLORIDA

CML
PAVEMENT MARKING AND SIGNAGE PLAN

SHEET	14 OF 51
DWG	C08
DATE	NOVEMBER 2016
PROJ	409534

NOTE:
1. SEE DETAIL SHEETS C-10 AND C-11 FOR PAVEMENT MARKING AND SIGNAGE DETAILS

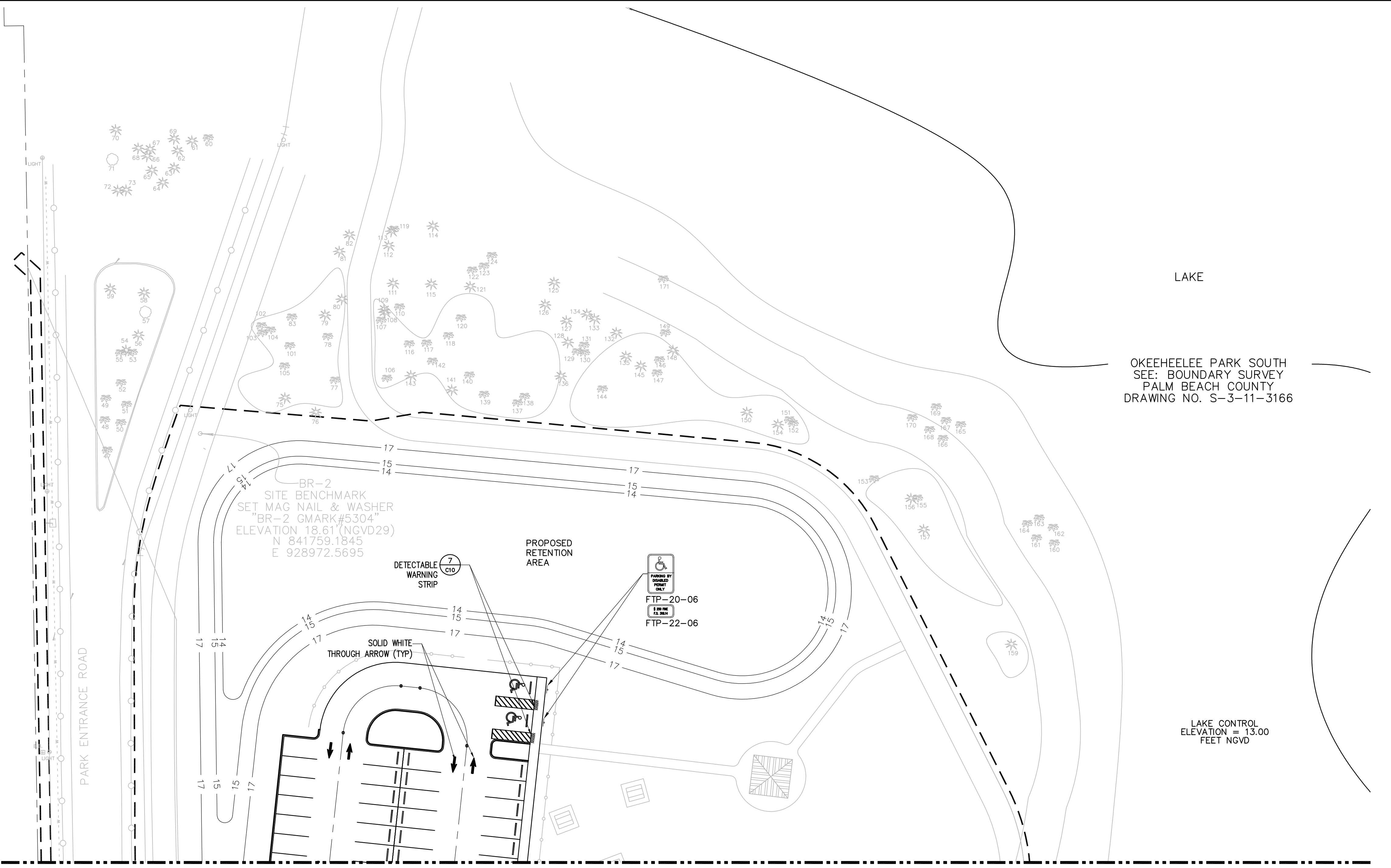


C08-PAVEMENT MARKING AND SIGNAGE PLAN.dwg Plotted: November 18, 2016

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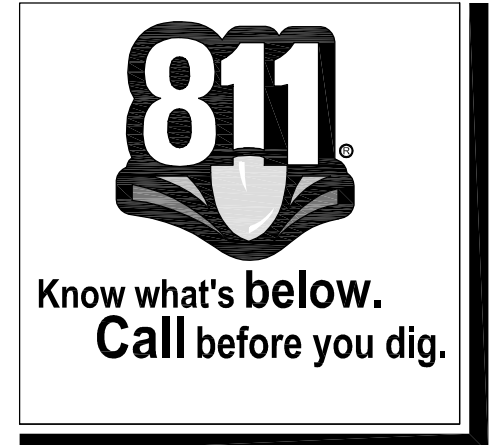
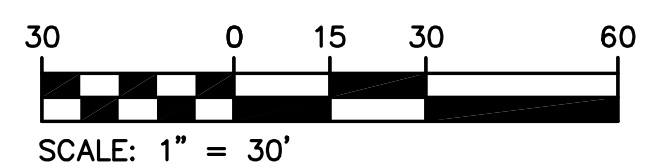
LEE PARK SOUTH
UNDARY SURVEY
BEACH COUNTY
NO. S-3-11-3166

OKEEHOLEE PARK SOUTH
SEE: BOUNDARY SURVEY
PALM BEACH COUNTY
DRAWING NO. S-3-11-3166



MATCHLINE SEE SHEET C08

NOTE:
1. SEE DETAIL SHEETS C-10 AND C-11 FOR PAVEMENT MARKING AND SIGNAGE DETAILS



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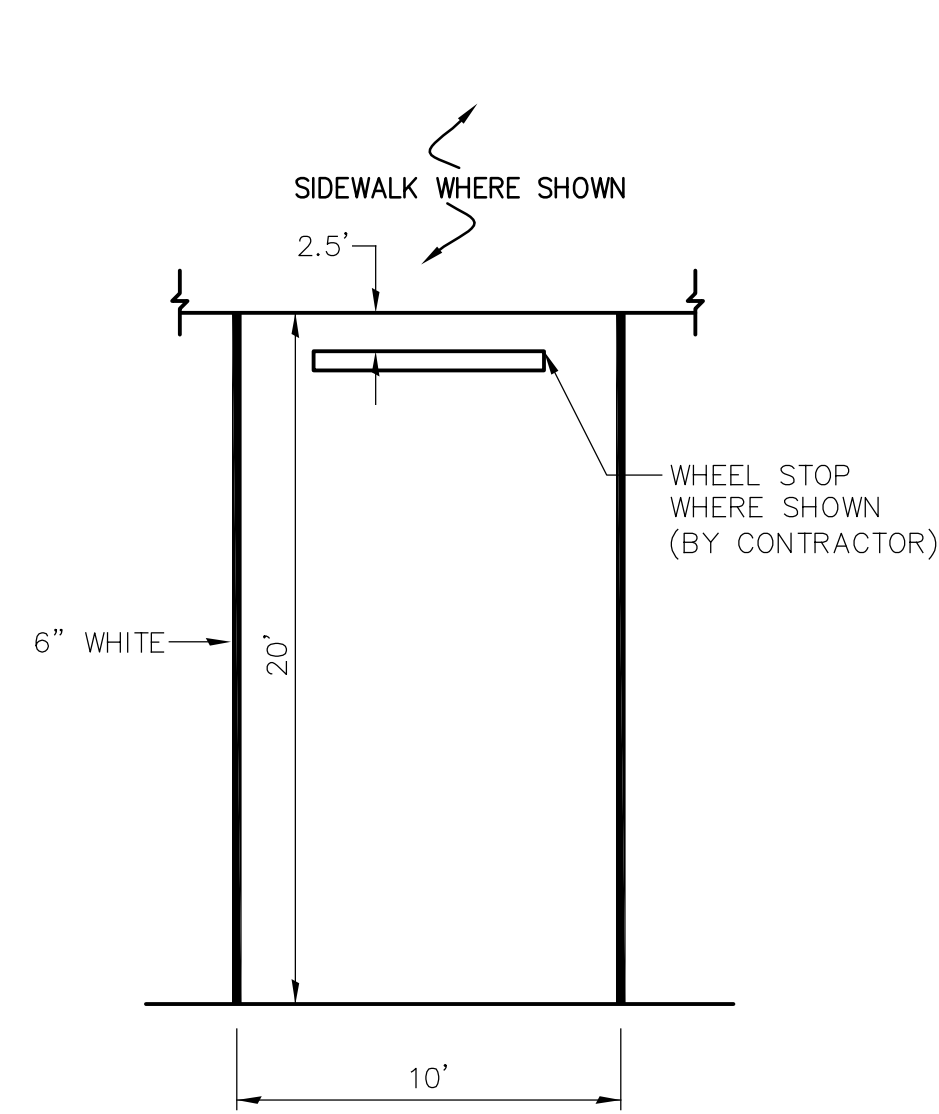
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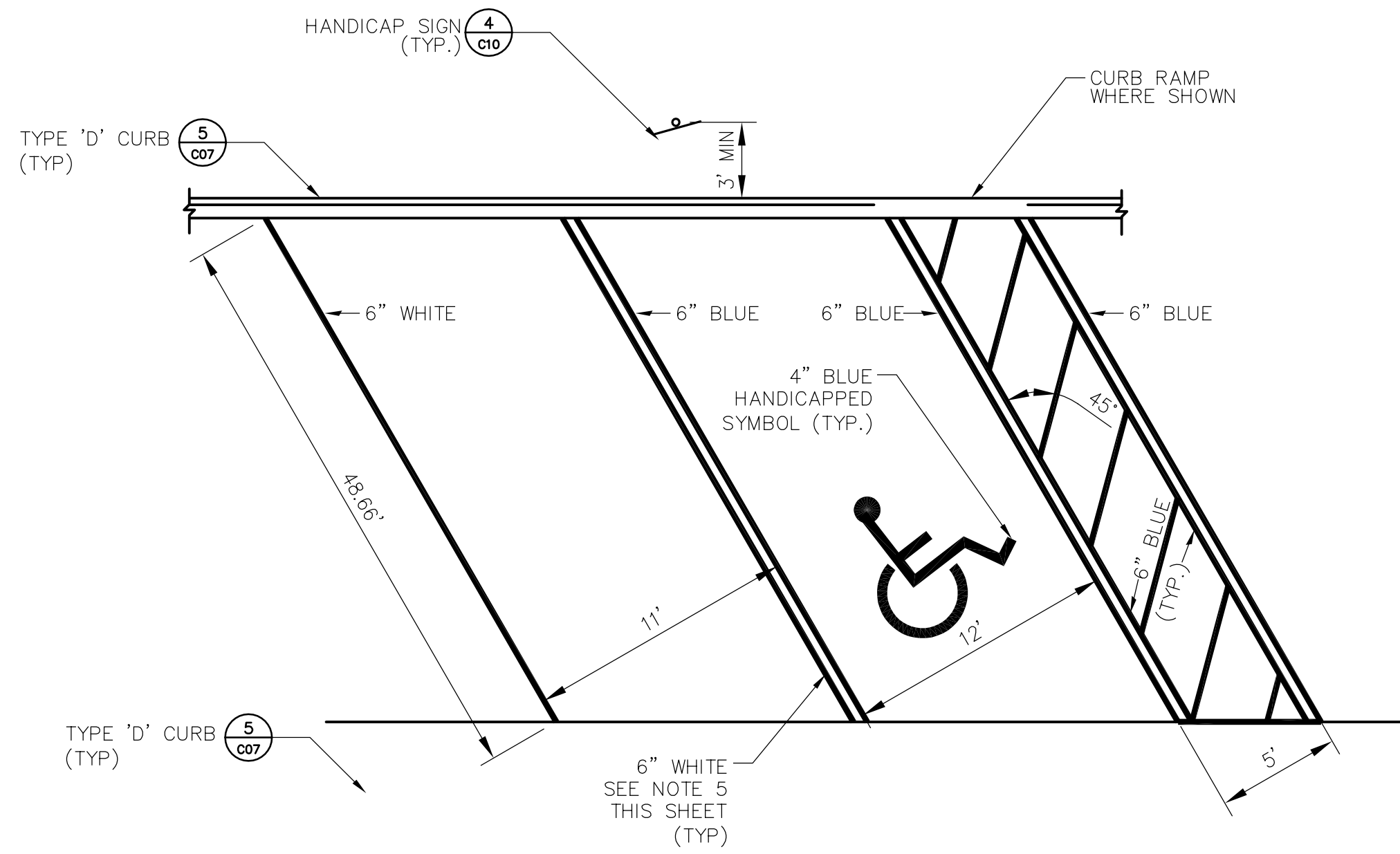
OKEEHOLEE PARK SOUTH
BOAT LAUNCH AND RESTROOM FACILITY
PALM BEACH COUNTY, FLORIDA

CML
PAVEMENT MARKING AND SIGNAGE PLAN

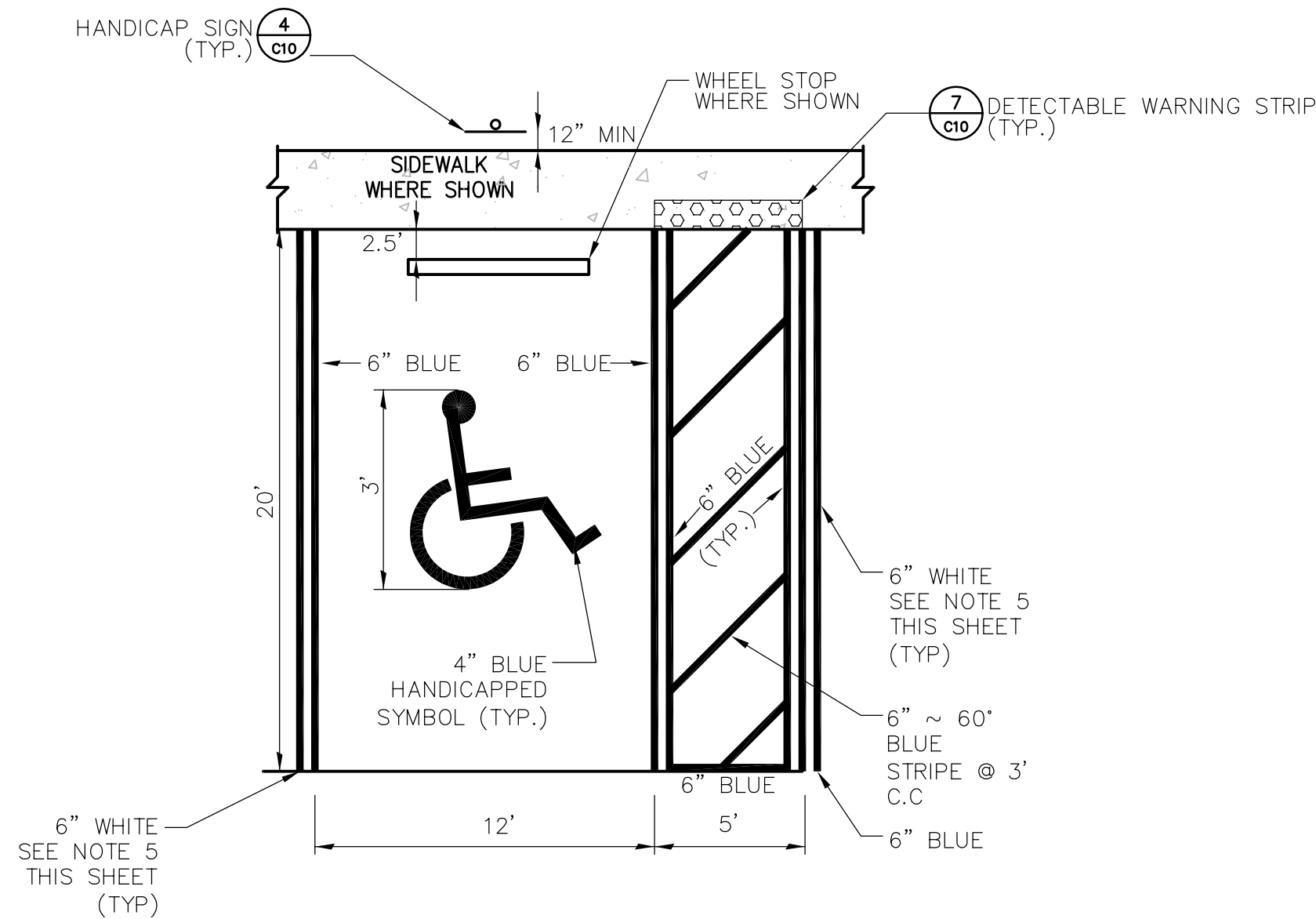
SHEET	15 OF 51
DWG	C09
DATE	NOVEMBER 2016
PROJ	409534



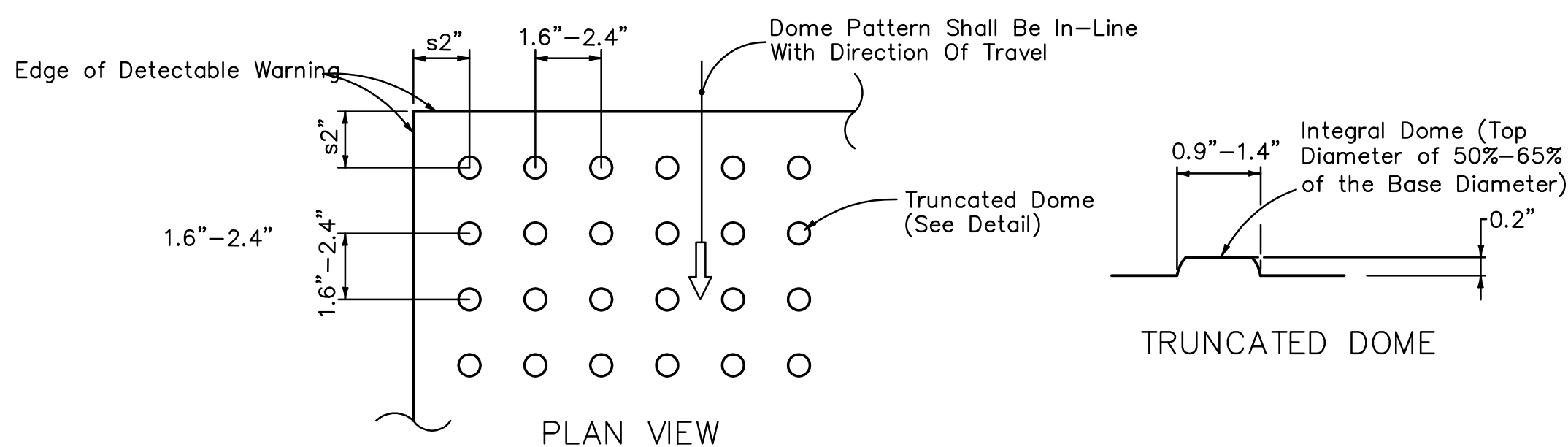
1 PARKING STALL DETAIL
NTS



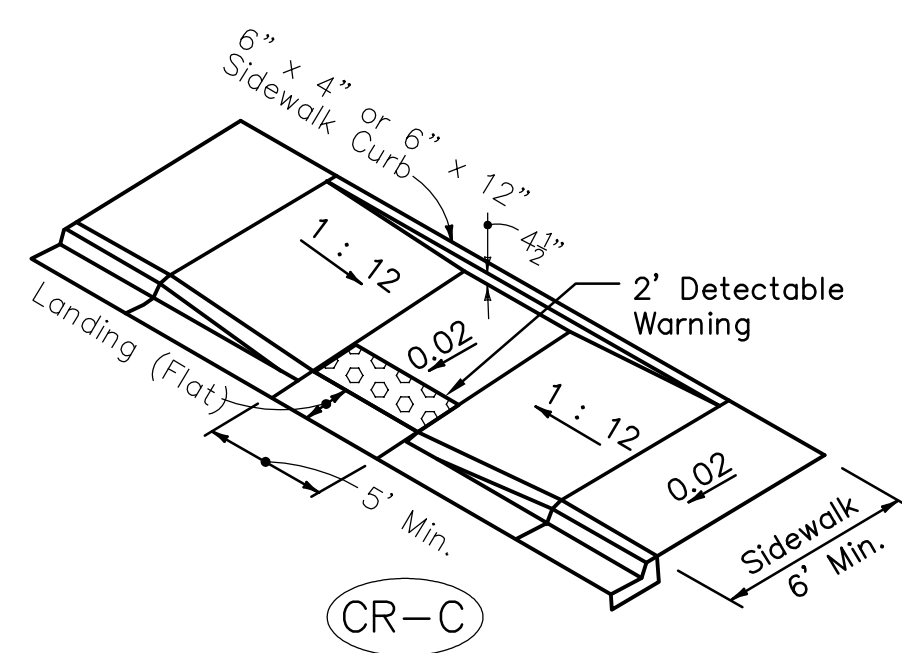
3 ANGLED RV AND TRAILER PARKING STALL DETAIL
NTS



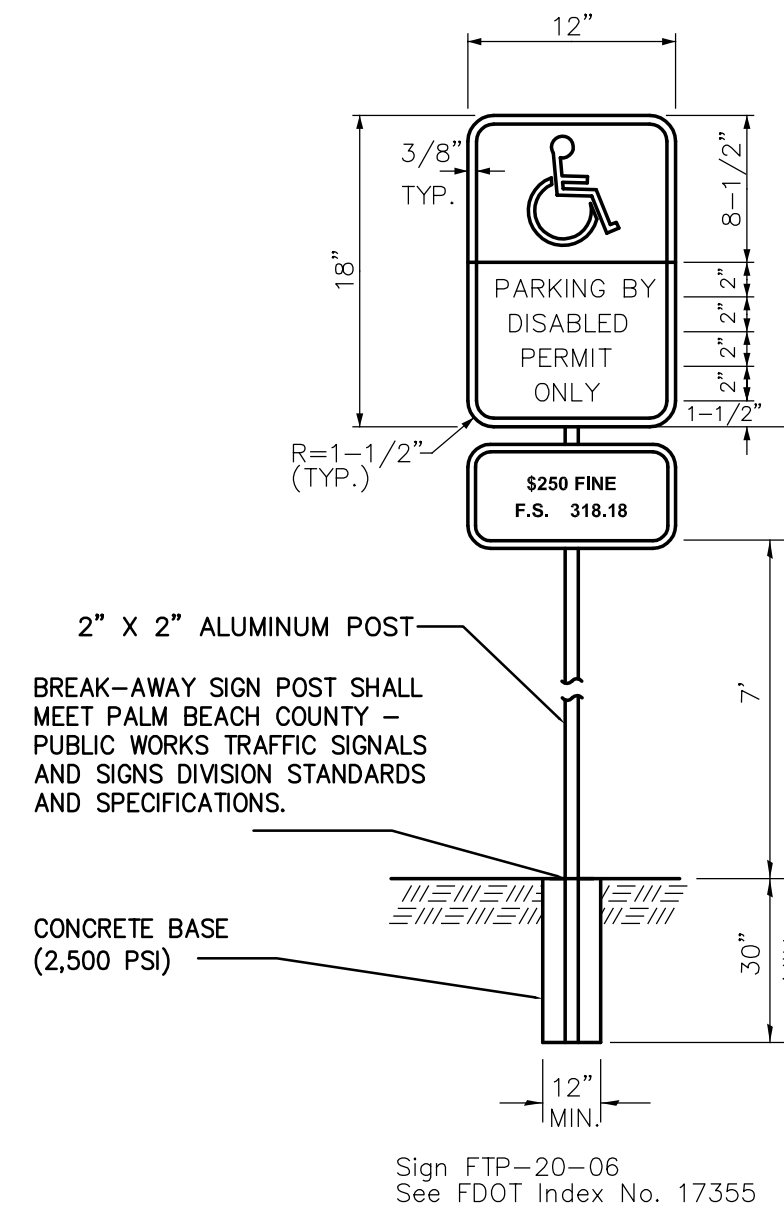
2 HANDICAP PARKING STALL DETAIL
NTS



CURB RAMP DETECTABLE WARNING - YELLOW NTS

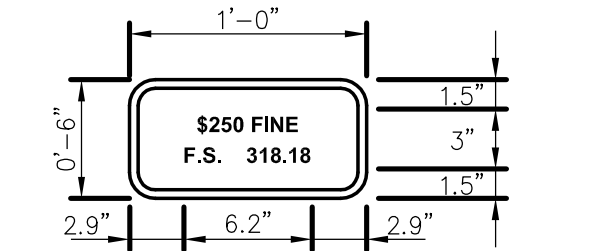


5 TYPICAL PLACEMENT OF PUBLIC SIDEWALK CURB RAMPS AT CURBED AREAS
NTS



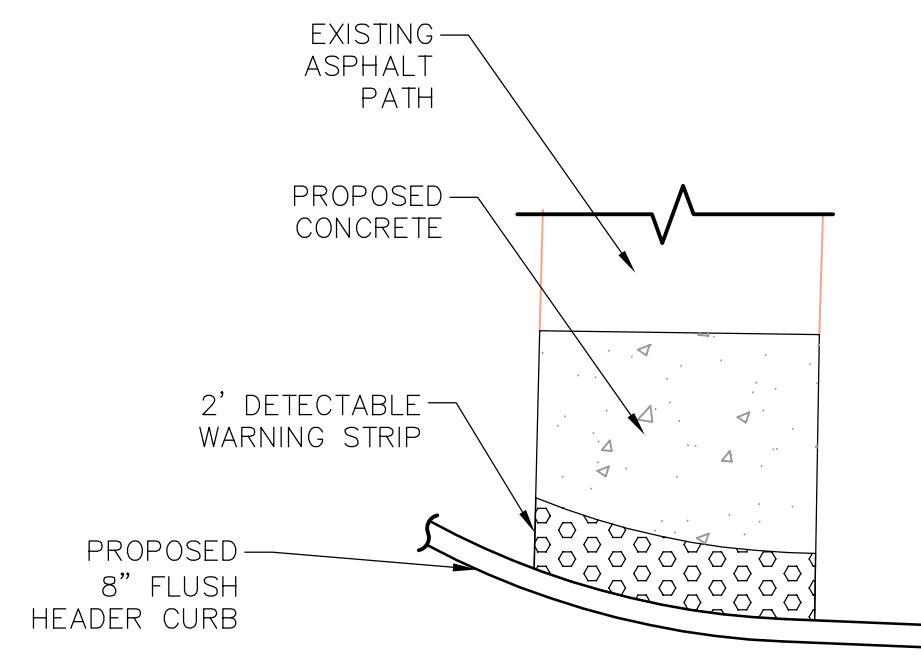
4 HANDICAP SIGN DETAIL
NTS (BREAK-AWAY POST)

- Notes:
- All letters are 1" Series "C".
 - Top portion of sign shall have a reflectorized blue background with white reflectorized legend & border.
 - Bottom portion of sign shall have a reflectorized white background with black opaque legend & border.

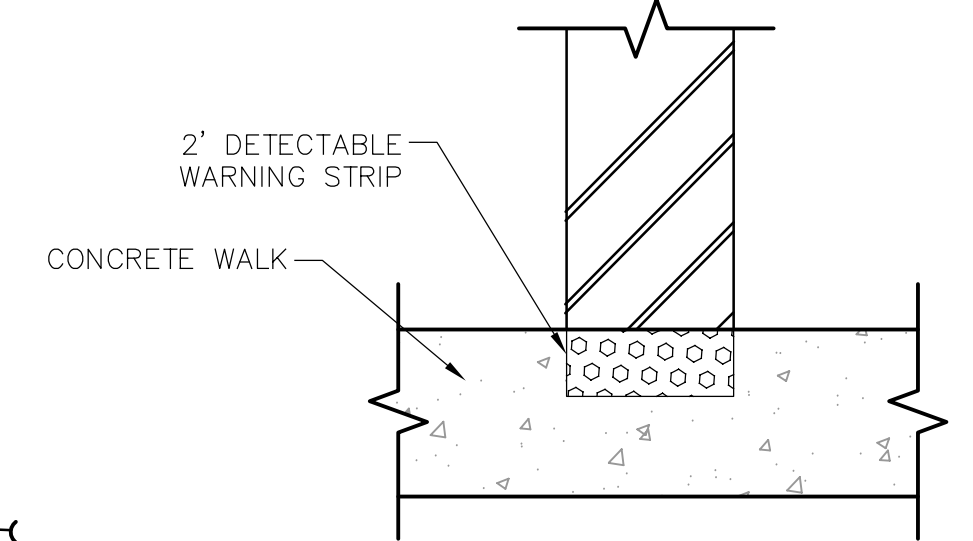


Sign FTP-22-06 (1'x6")
See Current FDOT Standard Details Index No. 17355 (Sheet No. 4 of 11)

- All letters shall be 1 1/2" Series C Legend. 1/2" Radii 3/8" Border 3/8" Inset.
- Sign shall have a reflectorized white background with black opaque legend & border.



6 DETECTABLE WARNING STRIP
NTS (AT PARK ENTRANCE TYPICAL)



7 DETECTABLE WARNING STRIP
NTS (AT DISABLED WALK TYPICAL)

NOTES:

- REFER TO PALM BEACH COUNTY UNIFIED LAND DEVELOPMENT CODE ARTICLE 6 PARKING.
- ALL PAVEMENT MARKING LINES TO BE PERFORMED BY THE CONTRACTOR.
- REFER TO MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS (MUTCD) FOR SIGN SPECIFICATIONS AND INSTALLATION RECOMMENDATIONS.
- REFER TO DETAIL 4 ON THIS SHEET FOR POST DETAIL.
- ADD ADDITIONAL WHITE STRIPE NEXT TO BLUE STRIPE IF ADJACENT STALL IS NOT HANDICAPPED. WHITE STRIPE IS TO BE LOCATED ON SIDE OF NON-HANDICAPPED PARKING STALL.

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APVD	J. VALLE					

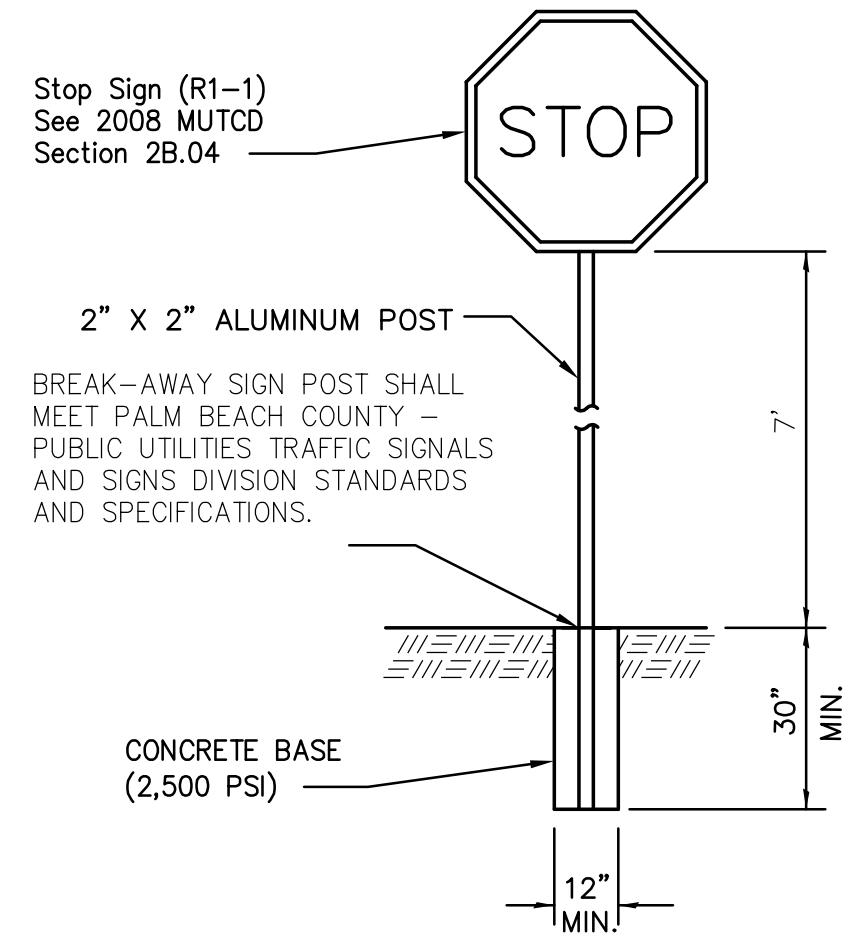
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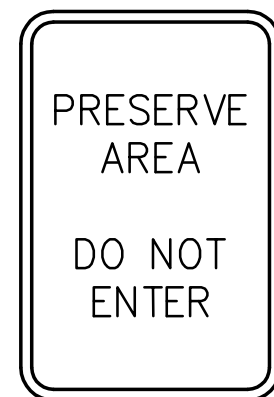
OKEEHEELEE PARK SOUTH
BOAT LAUNCH AND RESTROOM FACILITY
PALM BEACH COUNTY, FLORIDA

CML
PAVEMENT MARKING AND SIGNAGE DETAILS

SHEET	16 OF 51
DWG	C10
DATE	NOVEMBER 2016
PROJ	409534

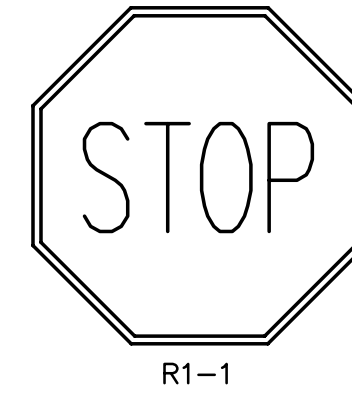


1 STOP SIGN
NTS

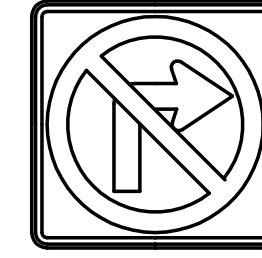


PRESERVE AREA
DO NOT ENTER

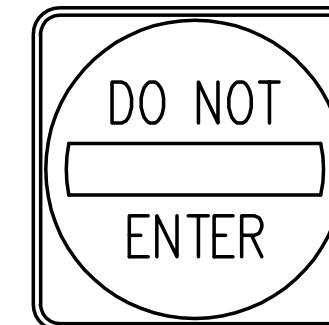
PRESERVE AREA
SIGN SHALL
BE TWO SIDED
(SEE SHEET C-01)



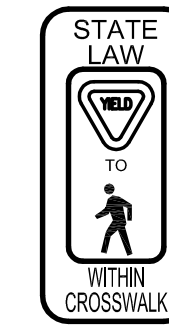
R1-1



R3-1



R5-1

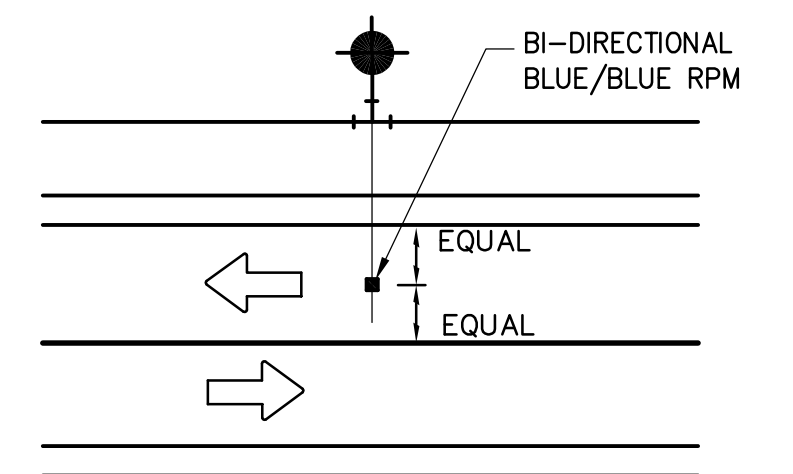


R1-6

NOTES:

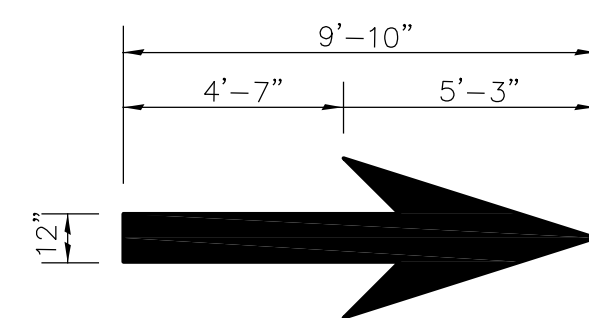
- REFER TO CURRENT FDOT DESIGN STANDARDS.
- ALL PAVEMENT MARKING LINES TO BE PERFORMED BY THE CONTRACTOR.
- REFER TO MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS (MUTCD) FOR SIGN SPECIFICATIONS AND INSTALLATION RECOMMENDATIONS.
- REFER TO DETAIL 1 ON THIS SHEET FOR POST DETAIL.

2 SIGN LEGEND
NTS



3 FIRE HYDRANT RPM DETAIL
NTS

NOTE:
FIRE HYDRANT'S BI-DIRECTIONAL
BLUE/BLUE RPM LOCATED IN CENTER OF
TRAFFIC LANE NEAREST HYDRANT. (AS
INDICATED ON PLANS)



NOTE:
THROUGH ARROW TO BE THERMOPLASTIC

4 SOLID WHITE THROUGH ARROW DETAIL
NTS



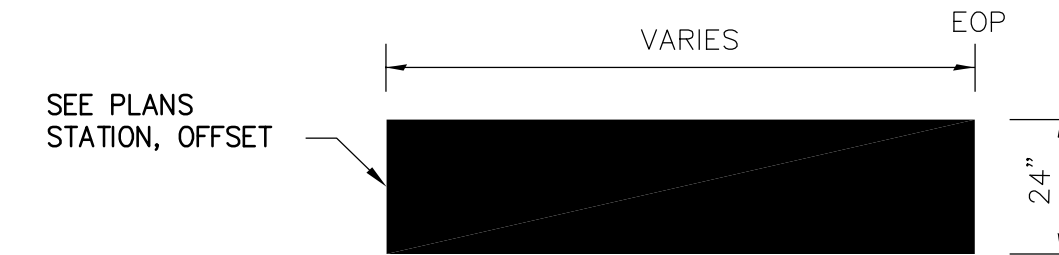
NOTE:
CROSSWALK OR TRAFFIC CALMING STRIPES TO BE THERMOPLASTIC

5 SOLID WHITE CROSSWALK /
TRAFFIC CALMING DETAIL
NTS



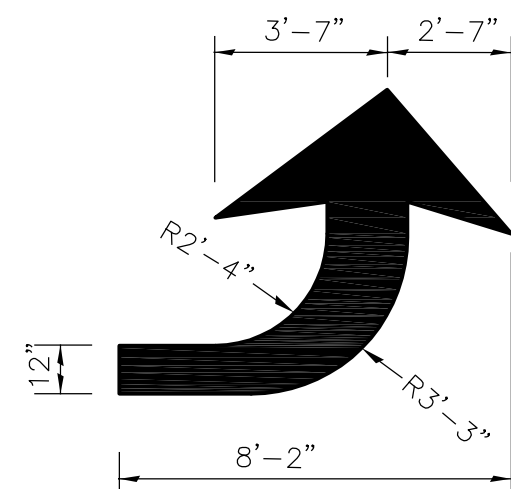
NOTE:
SINGLE SOLID LINE TO BE THERMOPLASTIC

6 8" SINGLE SOLID YELLOW / WHITE LINE DETAIL
NTS



NOTE:
STOP BAR TO BE THERMOPLASTIC

7 24" SOLID WHITE STOP BAR DETAIL
NTS



NOTES:
1. SOLID WHITE ARROW TO BE THERMOPLASTIC
2. RIGHT TURN ARROW TO BE REVERSED
3. LEFT AND RIGHT TURN ARROWS TO BE COMBINED

8 SOLID WHITE TURN ARROW DETAIL
NTS



NOTE:
DOUBLE YELLOW LINE TO BE THERMOPLASTIC

9 6" DOUBLE SOLID YELLOW LINE DETAIL
NTS



NOTE:
SINGLE SOLID LINE TO BE THERMOPLASTIC

10 6" SINGLE SOLID YELLOW / WHITE LINE DETAIL
NTS



NOTE:
SINGLE SOLID LINE TO BE THERMOPLASTIC

11 18" SINGLE SOLID YELLOW / WHITE LINE DETAIL
NTS

NOTES

- TEMPORARY PAVEMENT MARKINGS TO BE PAINT.
- FINAL PAVEMENT MARKINGS TO BE THERMOPLASTIC.

CONSTRUCTION
SET
NOVEMBER 2016

DSGN	J. DEBRINCAT						
DR	D. ALMENDINGER						
CHK	M. LANDRUM						
APVD	J. VALLE	NO.	DATE	REVISION	BY	APVD	

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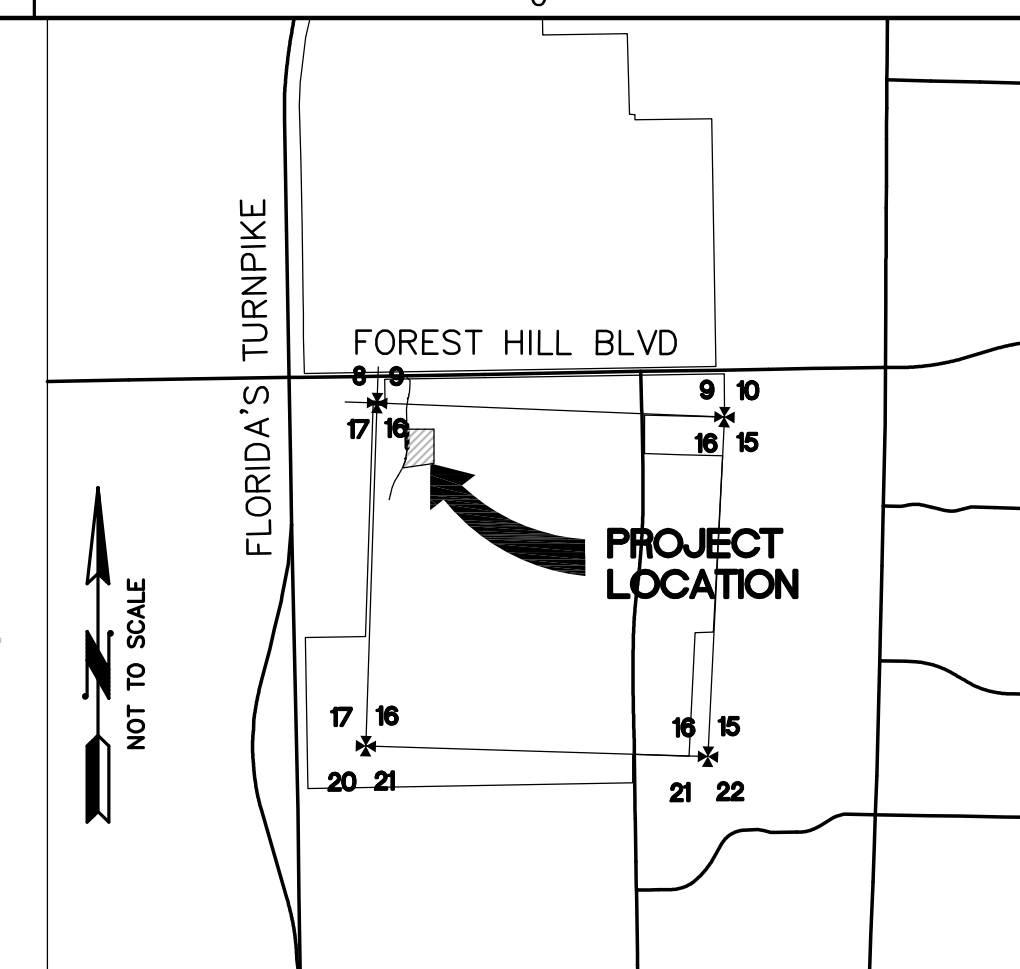
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BOAT LAUNCH AND RESTROOM FACILITY
PALM BEACH COUNTY, FLORIDA

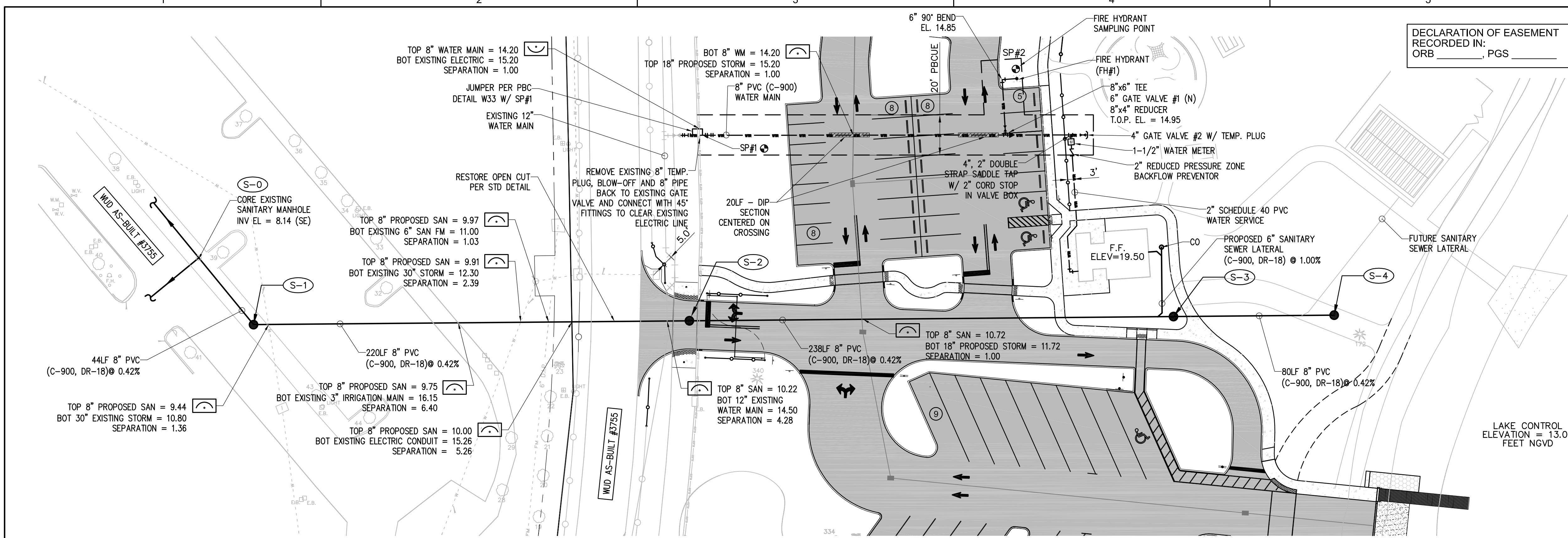
CML
PAVEMENT MARKING AND SIGNAGE DETAILS

SHEET	17 OF 51
DWG	C11
DATE	NOVEMBER 2016
PROJ	409534

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SECTION 16
TOWNSHIP 44 SOUTH, RANGE 42 EAST



DECLARATION OF EASEMENT
RECORDED IN:
ORB _____, PGS _____

LAKE CONTROL
ELEVATION = 13.00
FEET NGVD

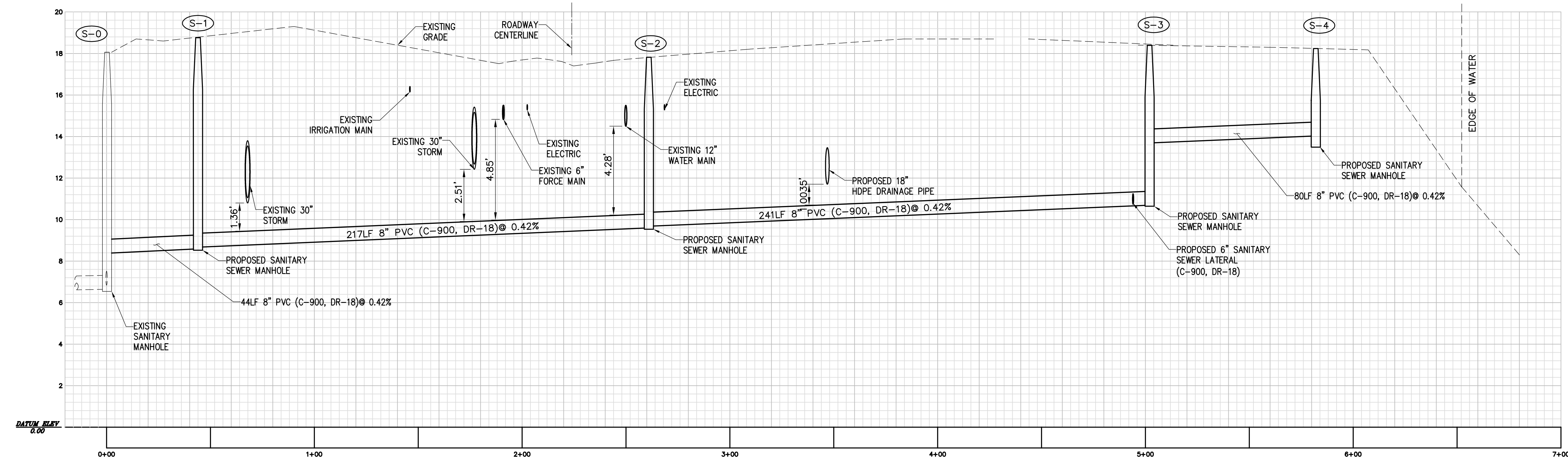
- RECORD DRAWING NOTES:**
- RECORD DRAWINGS SHALL BE PREPARED IN THE STATE PLANE COORDINATE SYSTEM.
 - ALL UTILITY FEATURES SHALL BE SHOWN IN THEIR AS-BUILT LOCATION.
 - STATE PLANE COORDINATES SHALL BE DISPLAYED ON RECORD DRAWINGS FOR ALL FEATURES SPECIFIED IN PBCWUD STANDARDS.
 - STATE PLANE COORDINATES SHALL BE SHOWN ON PROPERTY CORNERS AS REQUIRED BY PBCWUD.

- HYDRANT & HYDRANT SECURITY EQUIPMENT NOTES:**
- FIRE HYDRANT SHALL BE EQUIPPED WITH A SET OF AFC "CAPTIVATOR" SECURITY CAPS. THE CAPS SHALL BE CHAINED TO THE HYDRANT BODY AND INSTALLED PRIOR TO ISSUANCE OF "CONSTRUCTION WATER RELEASE" CERTIFICATION. A SCHEDULED INSPECTION BY PBCWUD IS REQUIRED TO VERIFY THE INSTALLATION AND OPERATION OF THE CAPS.
 - PLEASE NOTE THAT THE SECURITY CAPS CAN ONLY BE REMOVED USING SPECIAL WRENCHES. THE CONTRACTOR SHALL CONTACT THE PBCWUD INSPECTOR FOR ASSISTANCE IF ACCESS TO THE HYDRANT IS REQUIRED FOR FLUSHING OR TESTING PURPOSES.

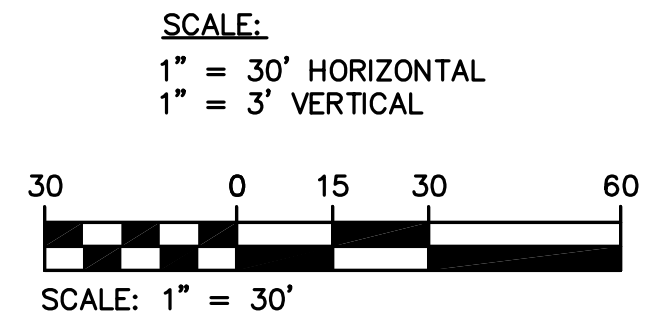
- GENERAL WATER NOTES:**
- ALL WATER MAIN DUCTILE IRON PIPE AND PIPE FITTINGS SHALL BE PAINTED WITH A 4" WIDE CONTINUOUS BLUE LINE THAT RUNS PARALLEL TO THE AXIS OF THE PIPE AND IS LOCATED ALONG THE TOP OF THE PIPE.
 - ALL WATER MAINS SHALL BE MARKED WITH ONE CONTINUOUS STRIP OF 6" WIDE MAGNETIC BLUE CODED TAPE IMPRINTED WITH TWO (2) INCH HIGH LETTERING READING "CAUTION-POTABLE WATER LINE BURIED BELOW" AND LOCATED APPROXIMATELY TWELVE (12) INCHES ABOVE THE CROWN OF THE PIPE. THE WORDING SHALL OCCUR EVERY THREE (3) FEET.
 - ALL WATER SERVICE FITTINGS ARE REQUIRED TO BE LEAD FREE.
 - ALL EXISTING PBCWUD FACILITIES (IE. VALVES) TO BE OPERATED BY PBCWUD PERSONNEL ONLY.

- GENERAL SEWER NOTE:**
- ON-SITE SEWER LATERALS, MANHOLES AND GRAVITY SEWER MAINS ARE PRIVATELY OWNED AND MAINTAINED.
 - SEWER CLEANOUT MINI-MANHOLES ARE REQUIRED ON ALL CLEANOUTS WITHIN PAVEMENT AREAS.

- GENERAL LANDSCAPE NOTE:**
- SOD ONLY WITH NO SHRUBS AND/OR TREES TO BE INSTALLED WITHIN 5' OF A WATER METER AND 7.5' OF A FIRE HYDRANT. TREES CANNOT BE INSTALLED WITHIN 10' OF A WATER OR SEWER MAIN WITHOUT PBCWUD APPROVAL AND THE INSTALLATION OF A ROOT BARRIER.



- NOTES:**
- ALL C-900 PIPING (LOCATED WITHIN WELLFIELD ZONES 1 AND 2) SHALL MEET PALM BEACH COUNTY WATER UTILITIES PRESSURE TESTING REQUIREMENTS. (SEE SHEET C17)
 - WHEN IN LANDSCAPE AREAS ALL BOXES: METER, VALVE, JUNCTION, MANHOLES, ELECTRIC, ETC. TO BE A MINIMUM OF 24" FROM EDGE OF BOX TO EDGE OF PAVEMENT OR CONCRETE.



Call 48 hours before you dig

It's the Law!
1-800-432-4770

Sunshine State One Call of Florida, Inc.

CONSTRUCTION SET
NOVEMBER 2016

- S-0**
EXISTING MANHOLE
EXISTING RIM EL = 18.06
EXISTING INV EL = 6.84
PROPOSED INV EL = 8.39 (SW)
- S-1**
CONSTRUCT STANDARD MANHOLE PER PBC WUD (DETAIL 12S)
RIM EL = 18.60
INV EL = 8.58 (NW)
INV EL = 8.68 (E)
- S-2**
CONSTRUCT STANDARD MANHOLE PER PBC WUD (DETAIL 12S)
RIM EL = 17.93
INV EL = 9.59 (W)
INV EL = 9.69 (E)
- S-3**
CONSTRUCT STANDARD MANHOLE PER PBC WUD (DETAIL 12S)
RIM EL = 19.00
INV EL = 10.70 (W)
INV EL = 13.66 (E)
- S-4**
CONSTRUCT SHALLOW MANHOLE PER PBC WUD (DETAIL 13S)
RIM EL = 18.23
INV EL = 14.03 (W)

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DR	D. ALMENDINGER
CHK	J. VALLE
APVD	D. STEVENSON

NO.	DATE	REVISION

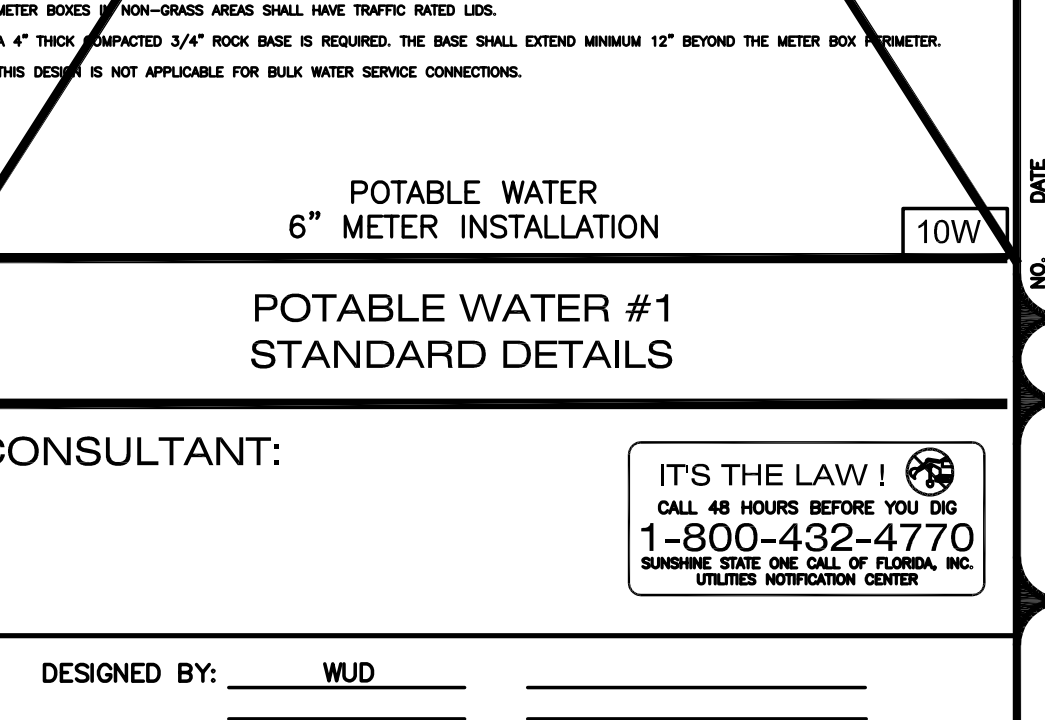
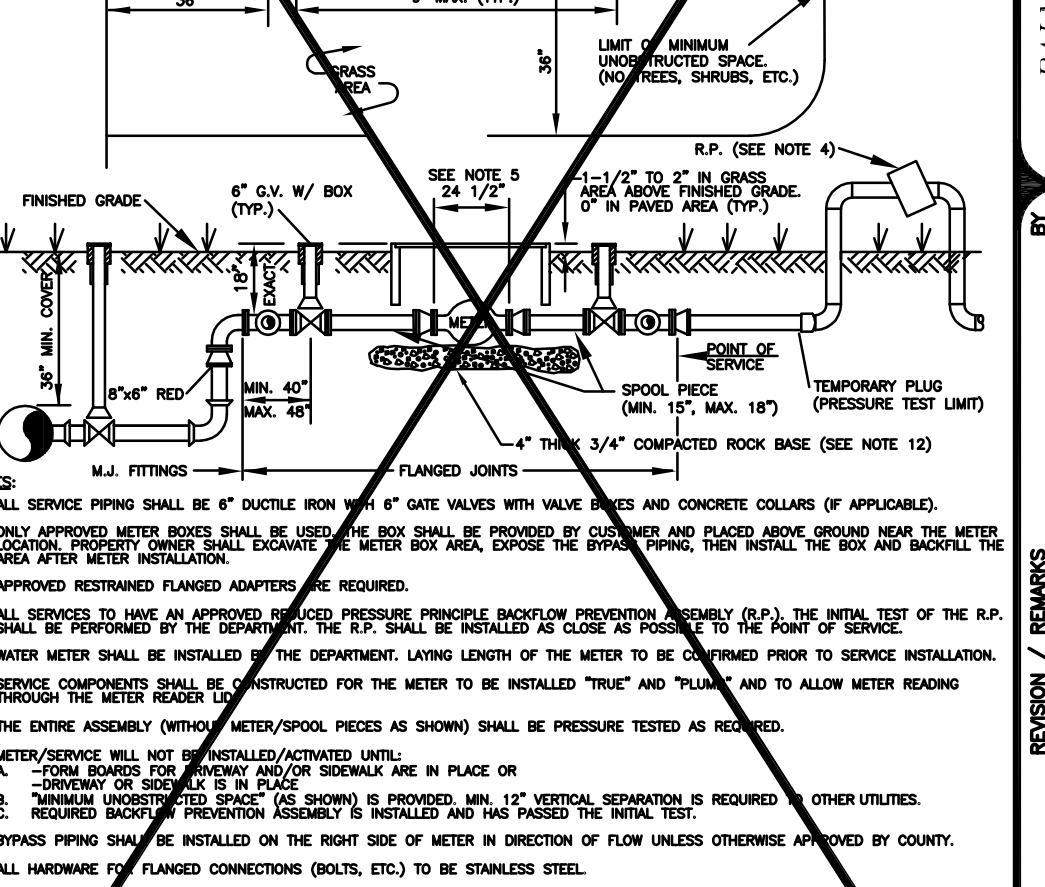
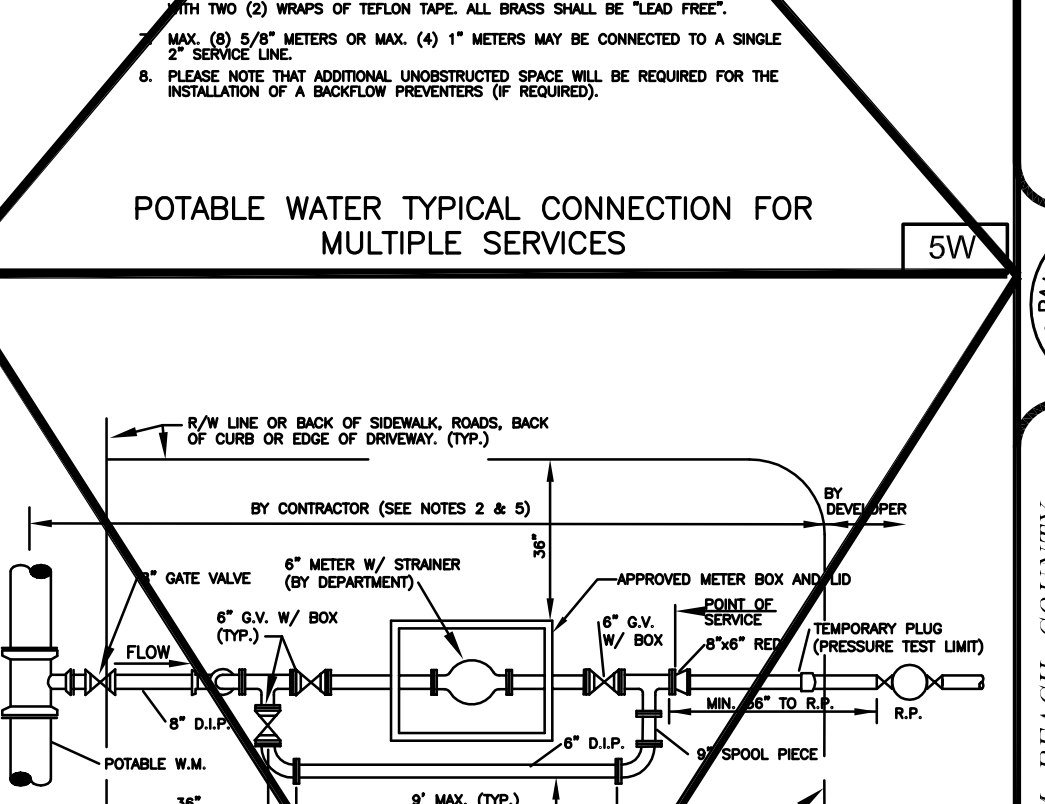
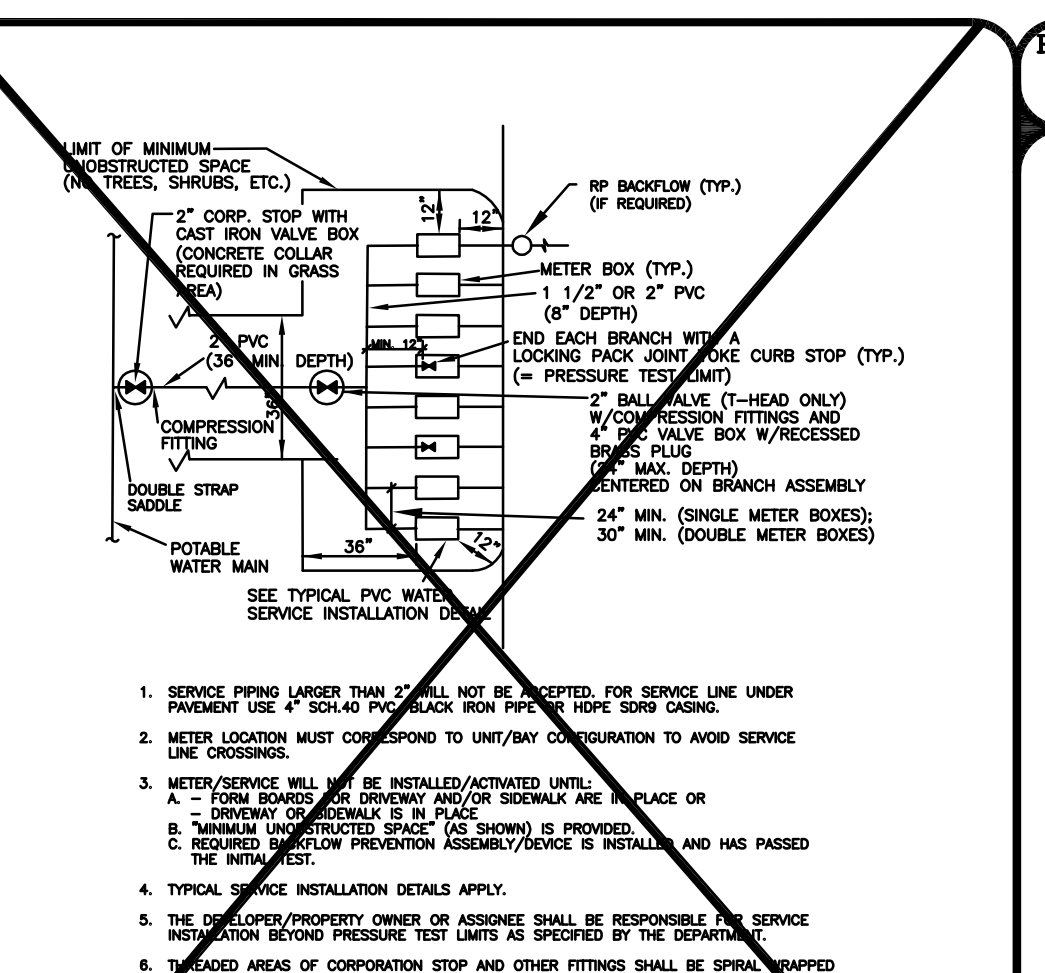
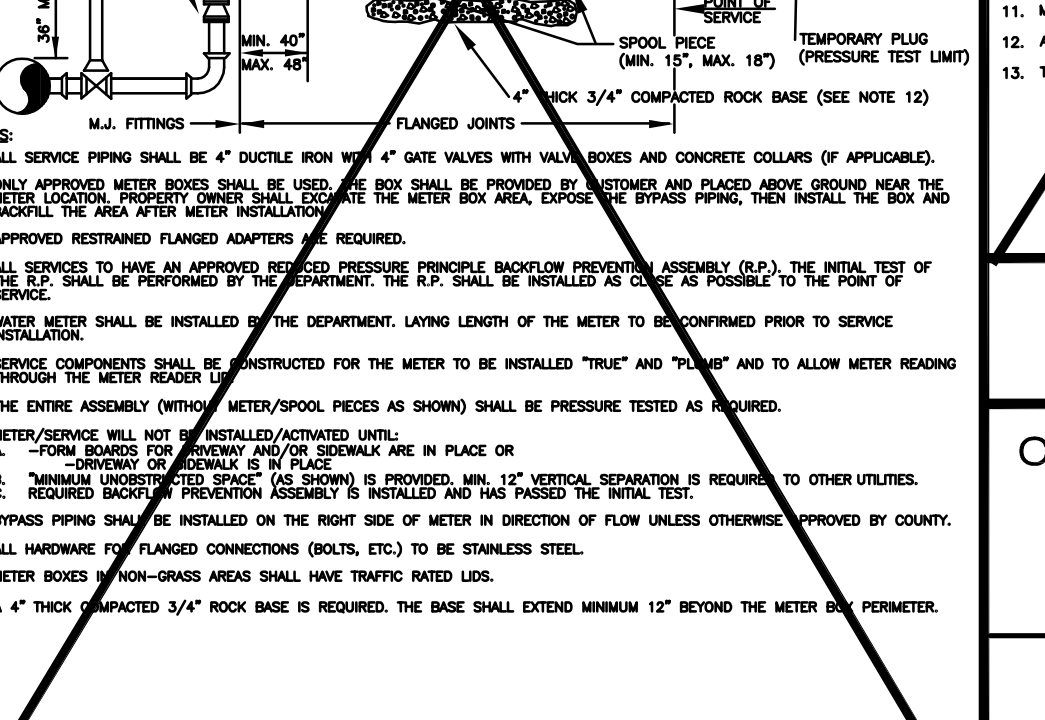
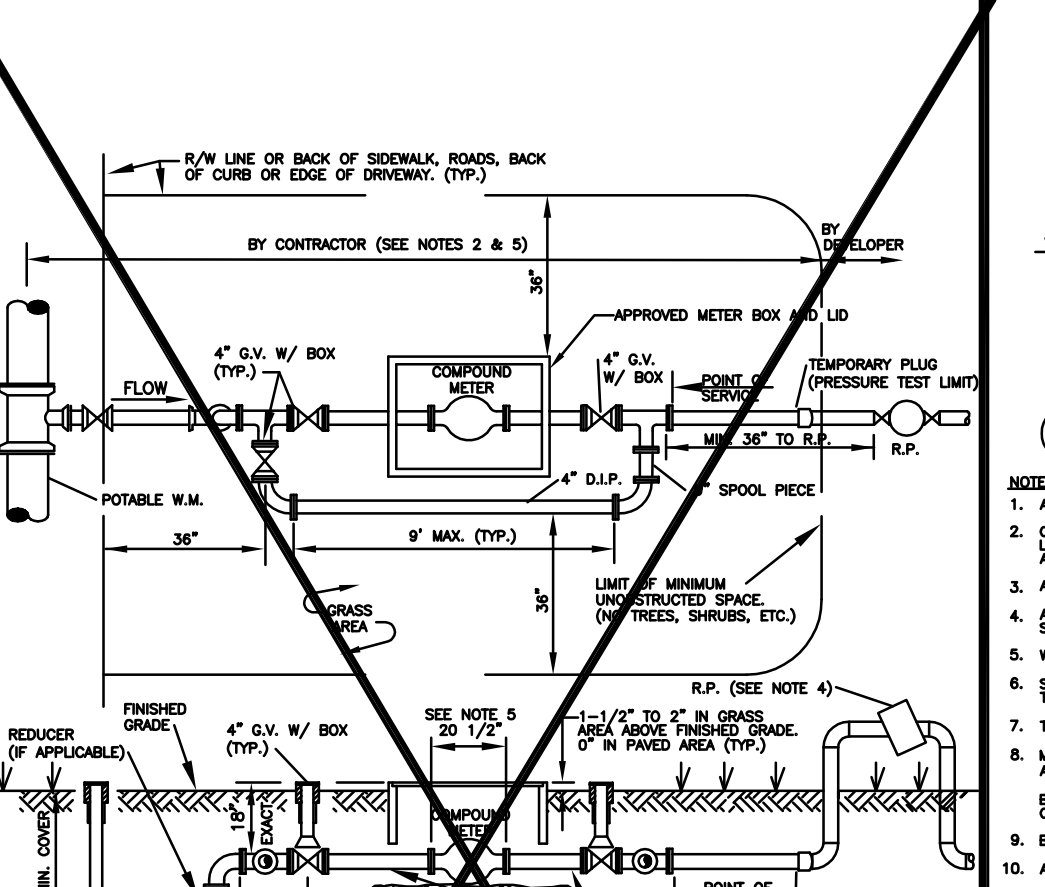
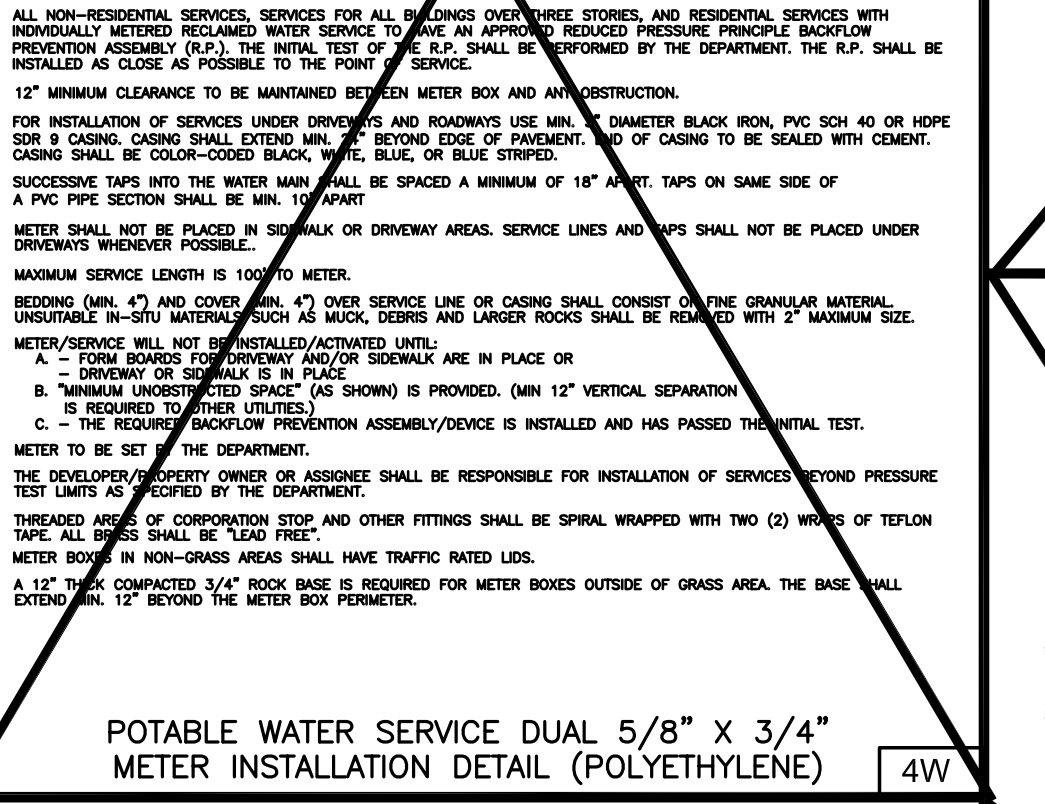
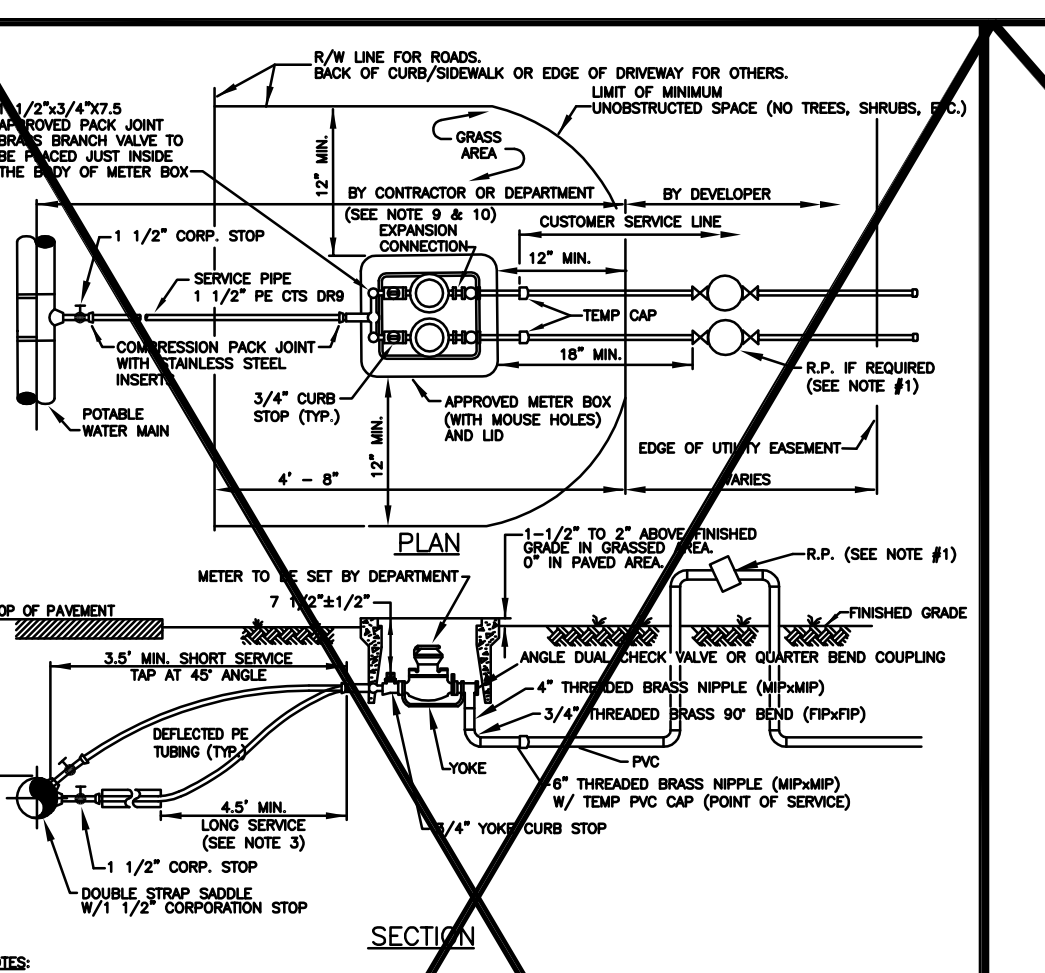
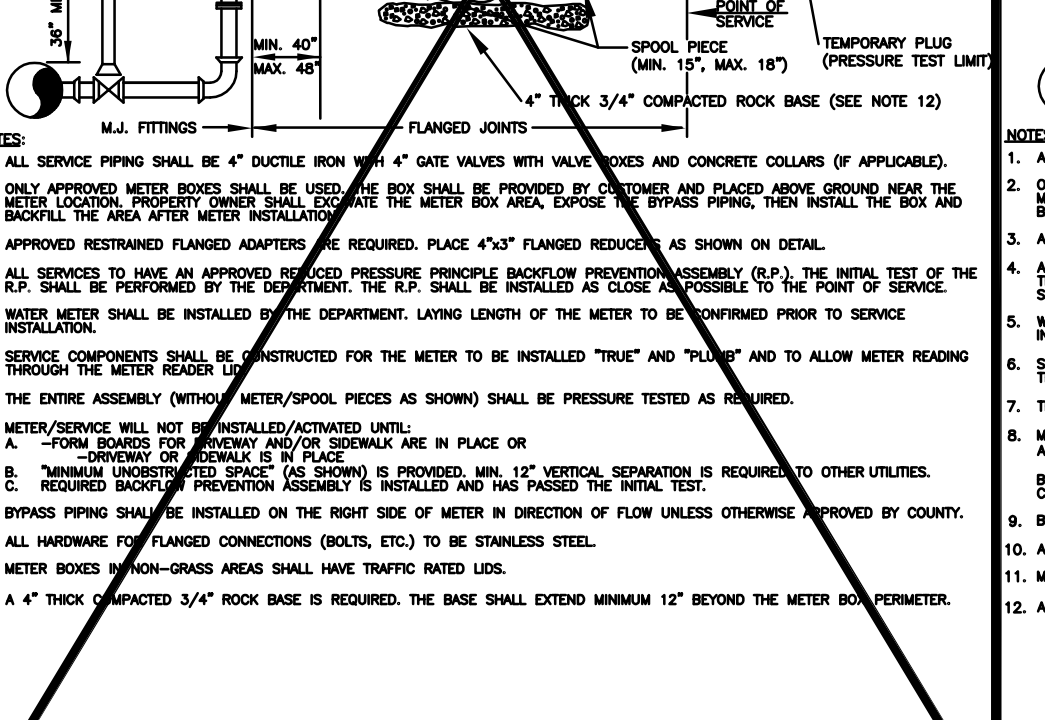
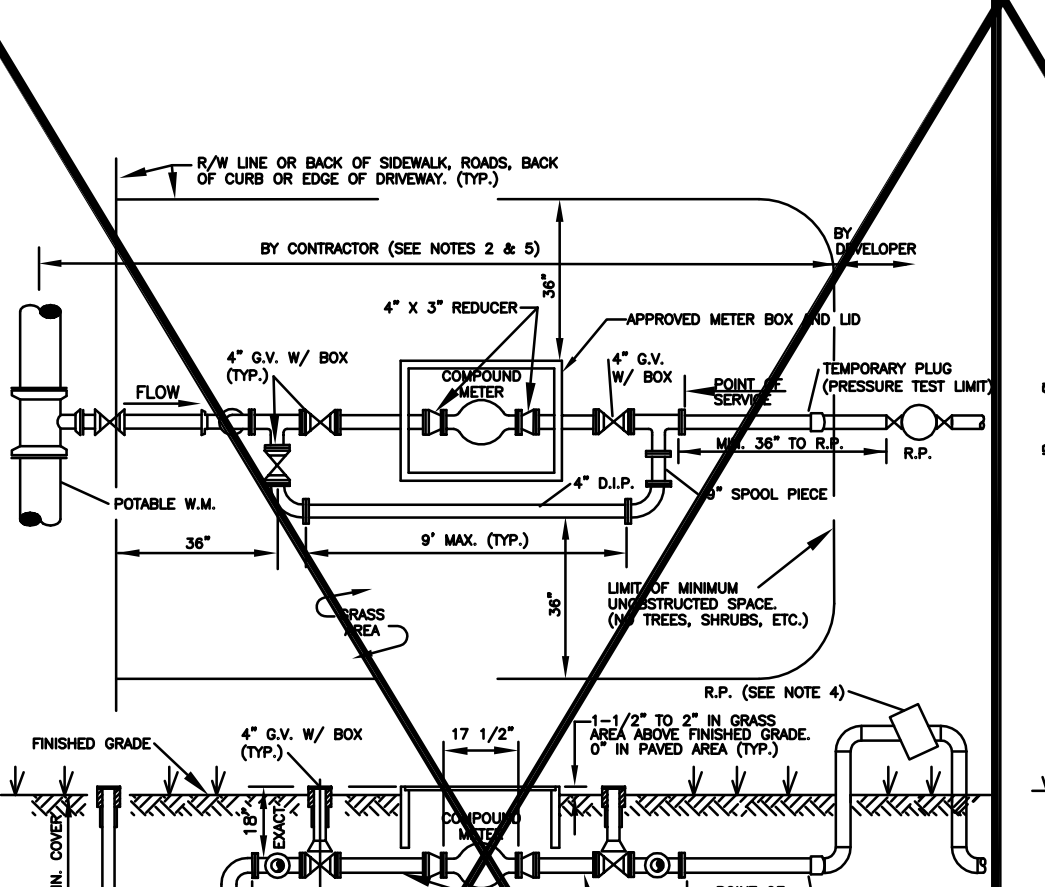
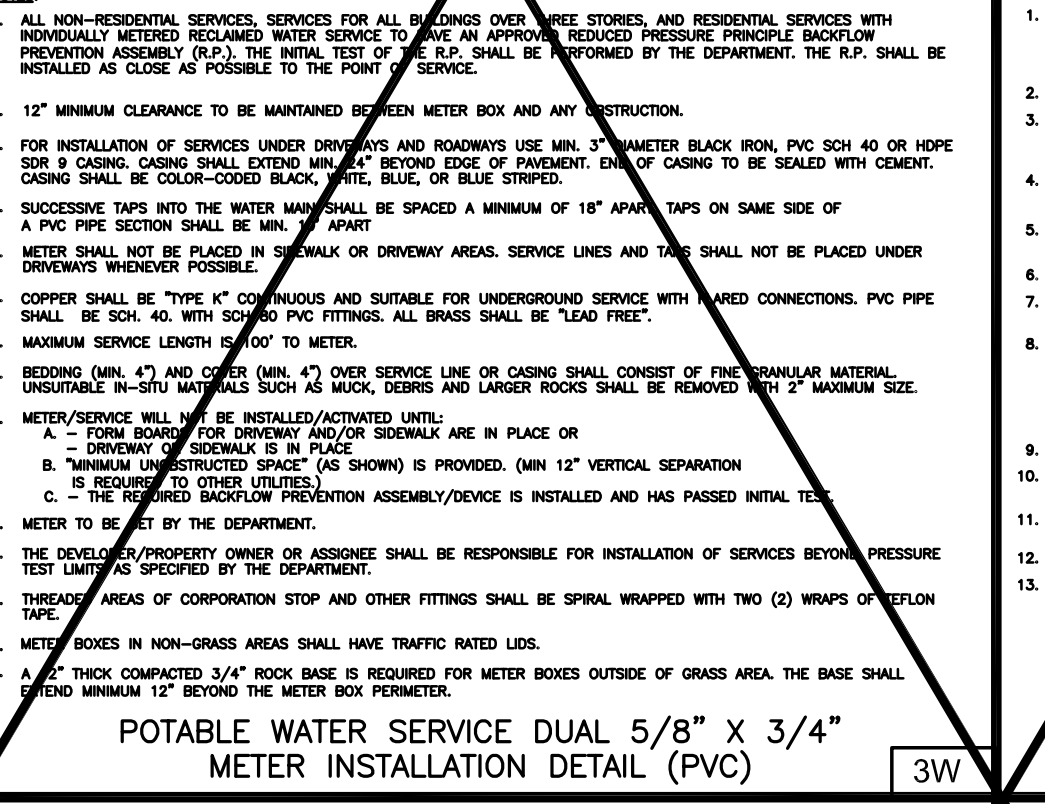
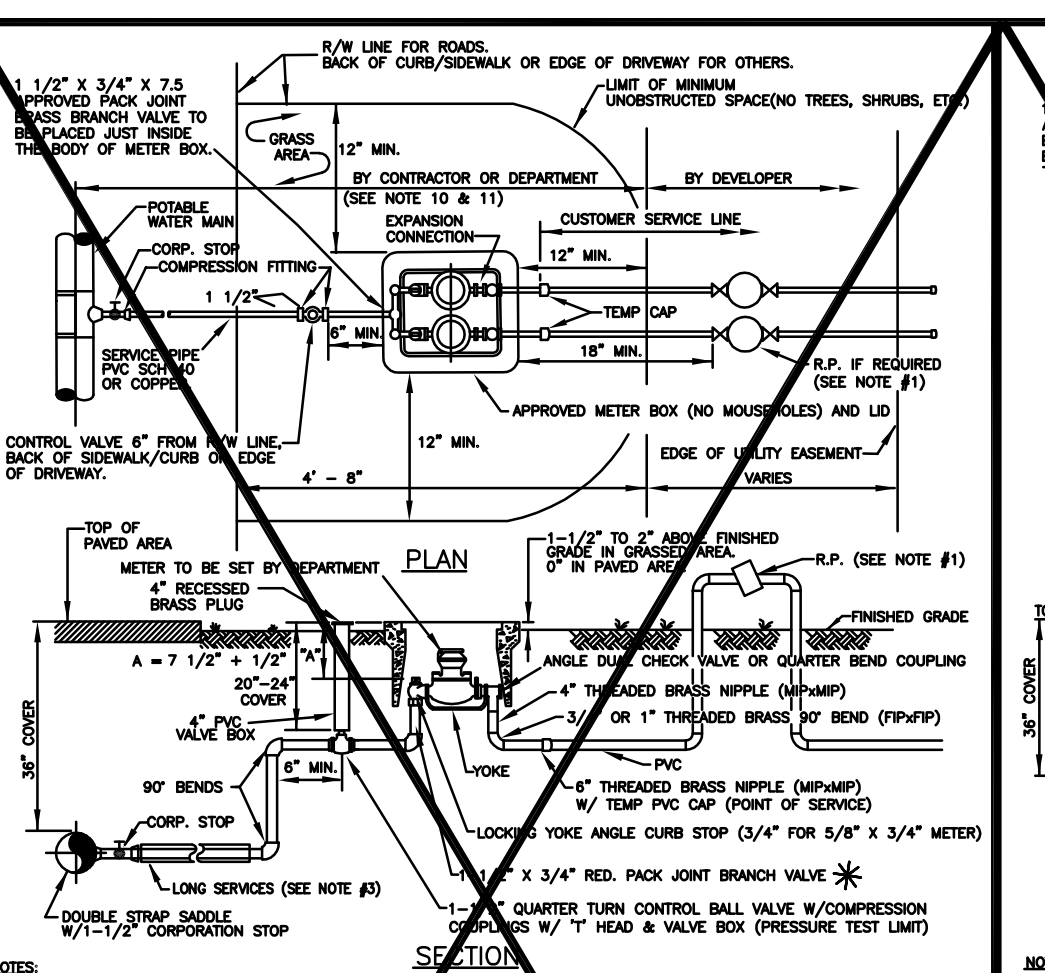
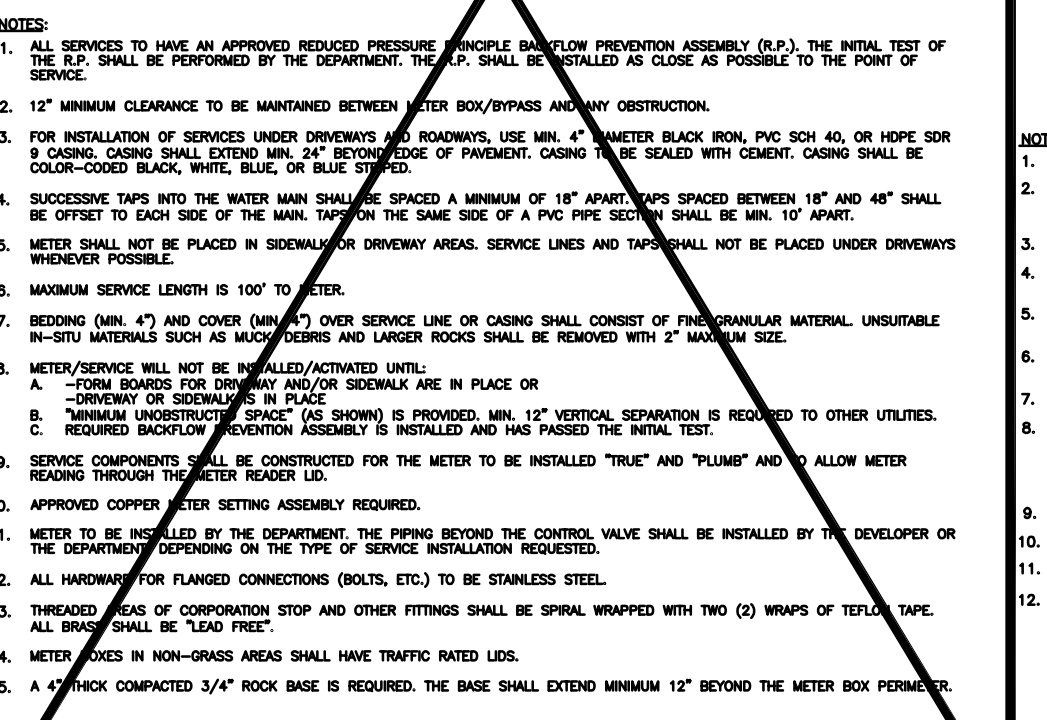
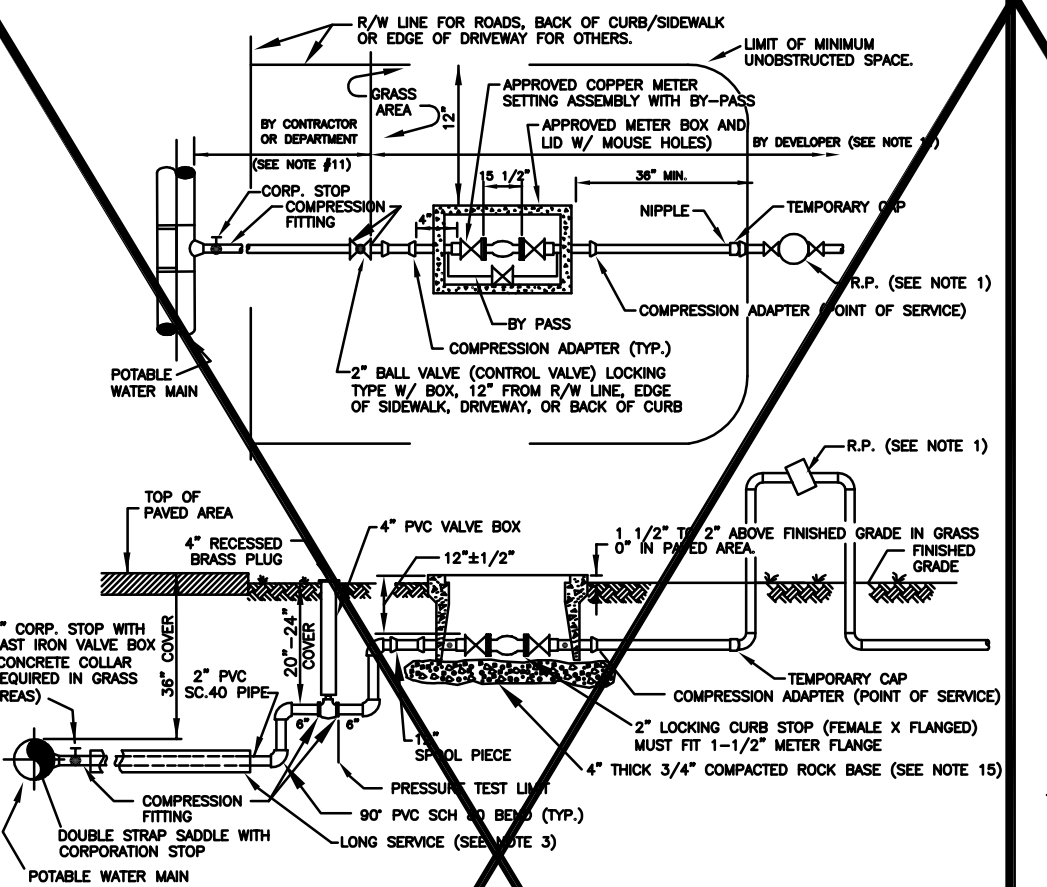
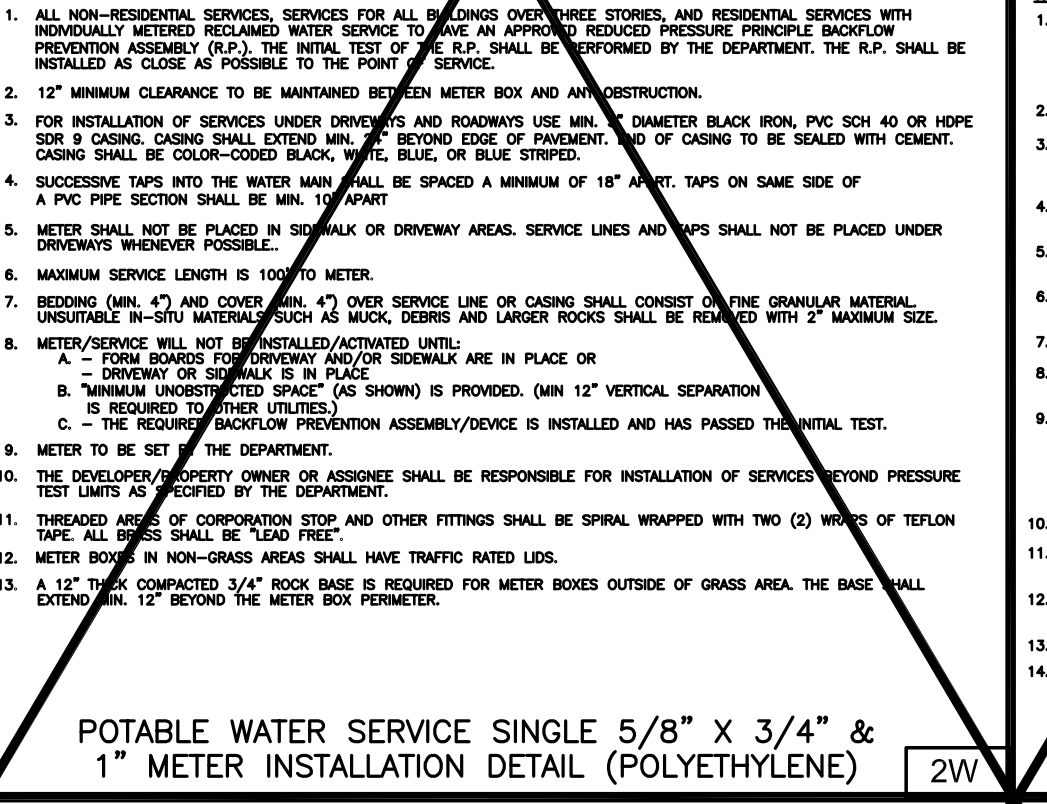
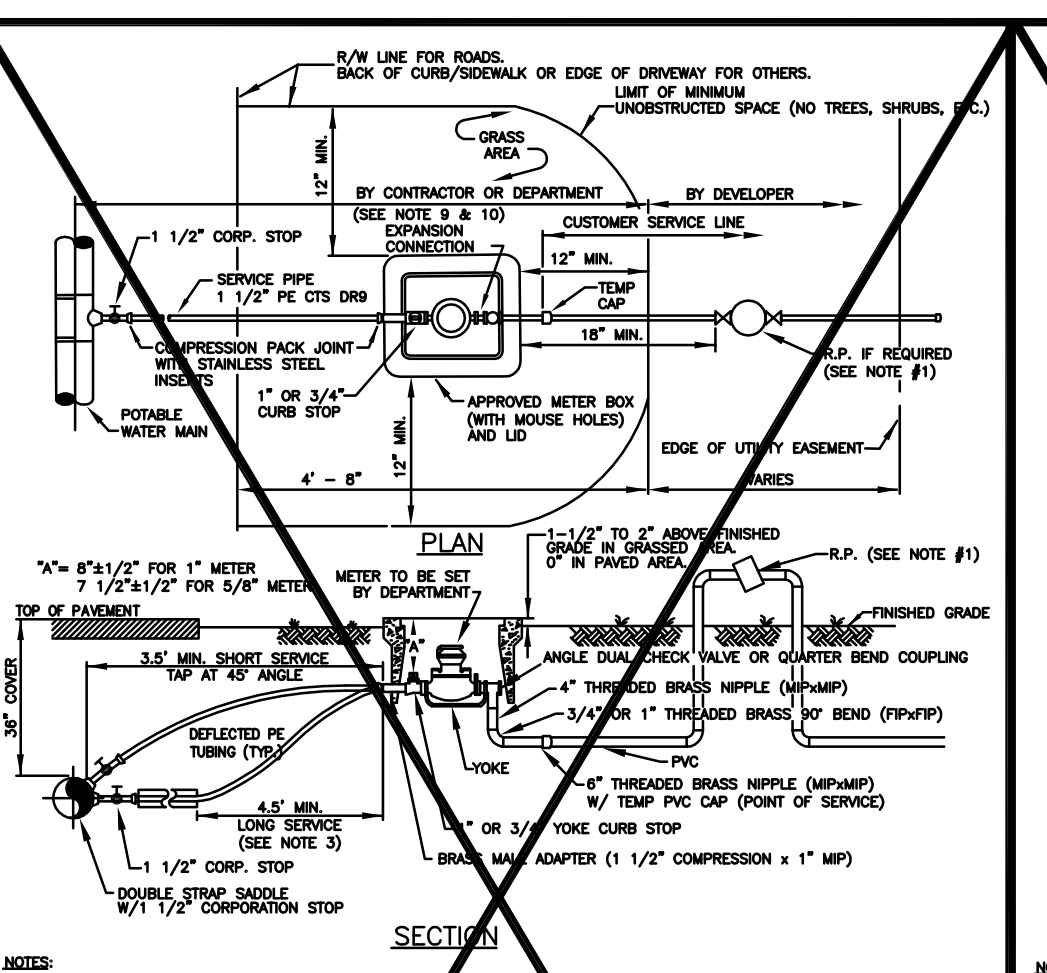
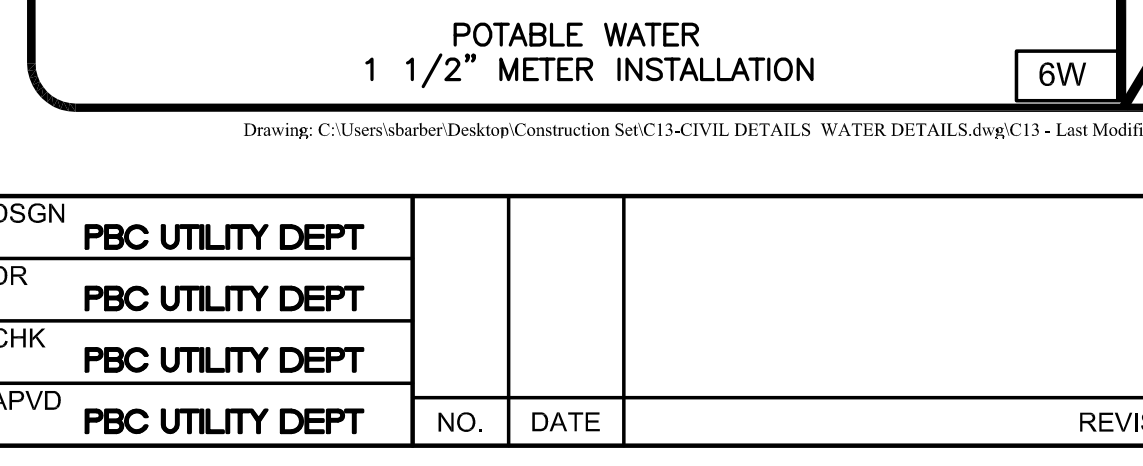
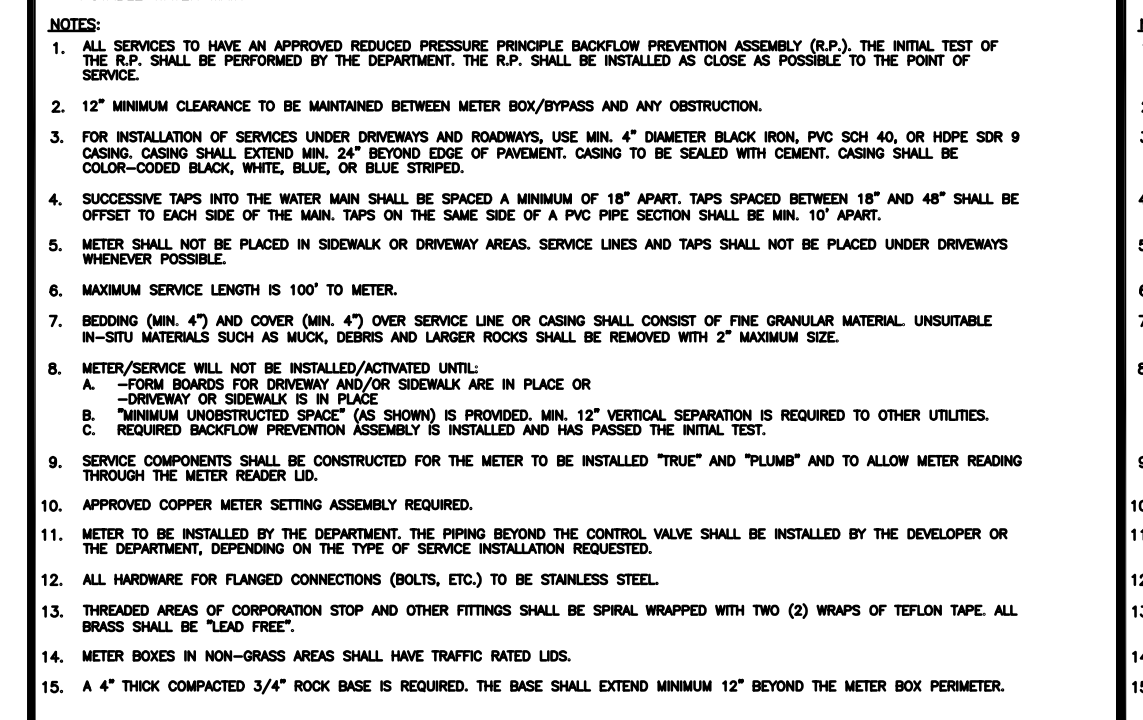
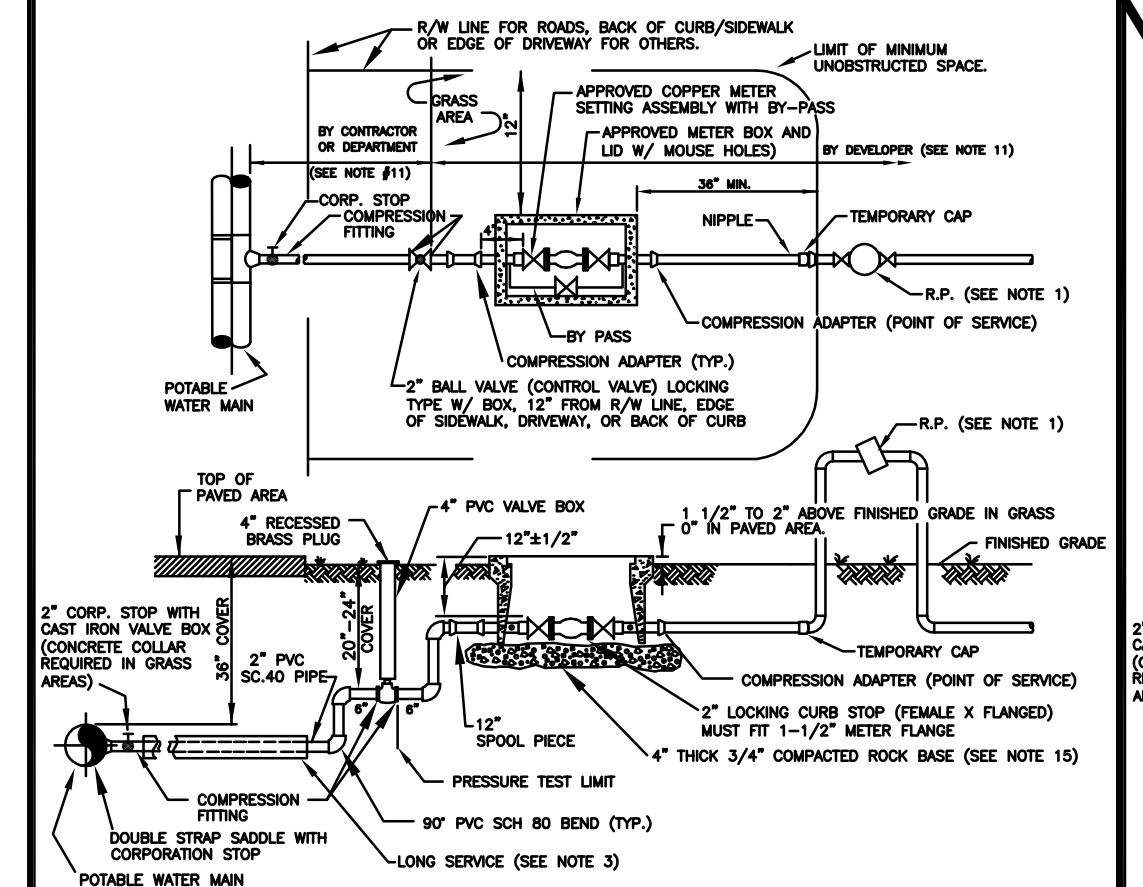
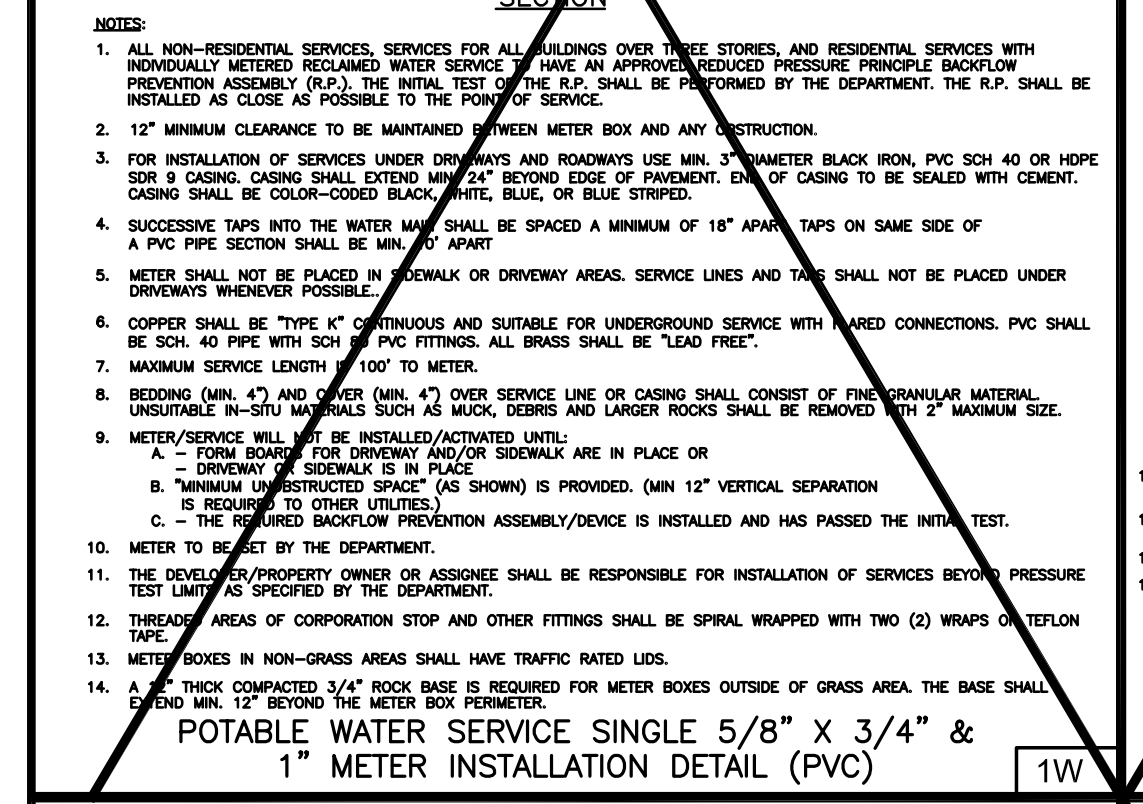
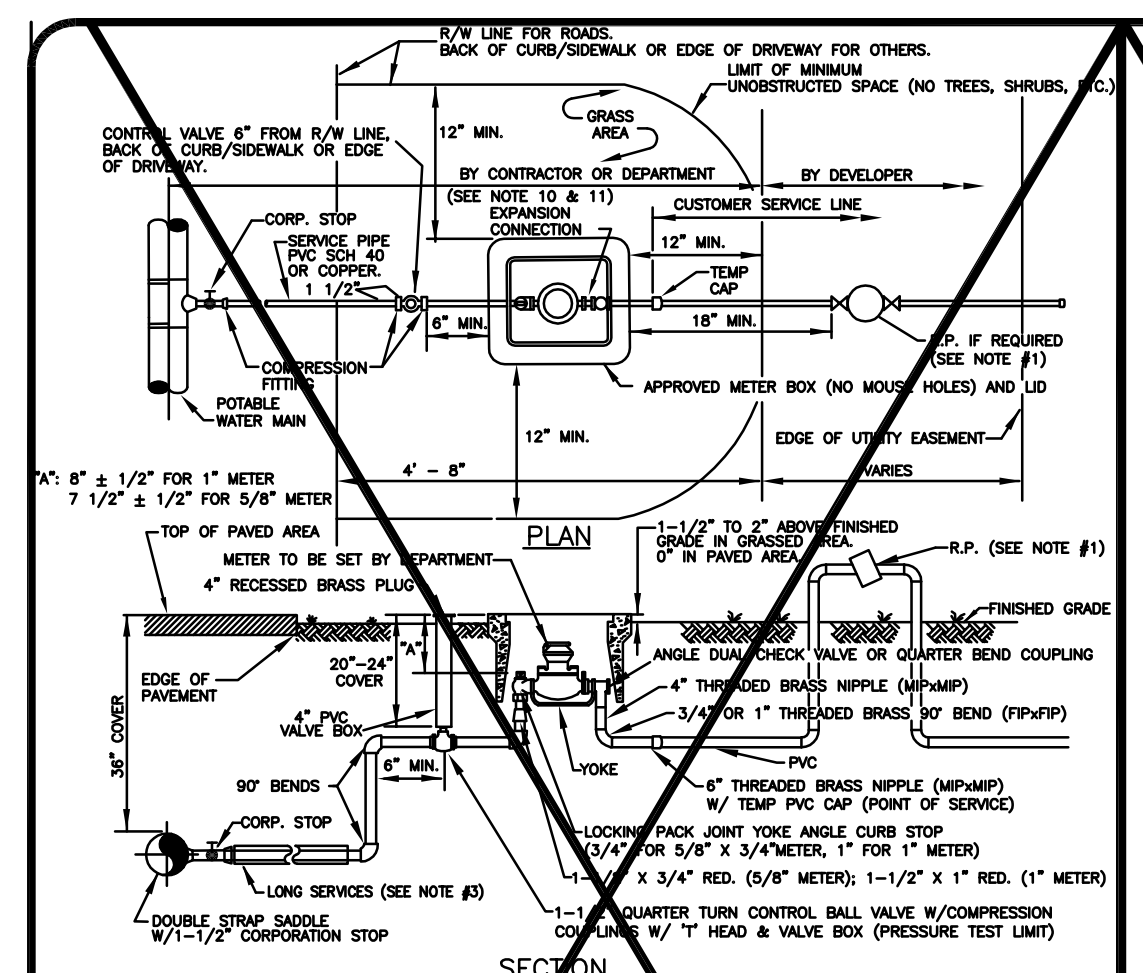
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OKEEHEELEE PARK SOUTH
BOAT LAUNCH AND RESTROOM FACILITY
PALM BEACH COUNTY, FLORIDA

Civil
WATER AND SANITARY SEWER PLAN

SHEET	18 OF 51
DWG	C12
DATE	NOVEMBER 2016
PROJ	409534



PROJECT NO. 00-000

PROJECT NAME

PALM BEACH COUNTY WATER UTILITIES DEPARTMENT

WEST PALM BEACH, FL 33416

(561) 988-6000

DATE: NOV 2012

NO. 19 OF 51

CONSTRUCTION SET NOVEMBER 2016

DESIGNED BY: WUD

DRAWN BY: WUD CADD

CHECKED BY: A. GALICKI

APPROVED BY: WUD

Palm Beach County Water Utilities Department P.O. Box 16097

SHEET NUMBER 19 OF 51

DATE NOVEMBER 2016

PROJ 409534

Plotted: November 18, 2016

CONSTRUCTION SET NOVEMBER 2016

DSGN	PBC UTILITY DEPT	NO.	DATE
DR	PBC UTILITY DEPT		
CHK	PBC UTILITY DEPT		
APVD	PBC UTILITY DEPT		

REVISION	BY	APVD

VERIFY SCALE	BY	APVD
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CML

POTABLE WATER STANDARD DETAILS

OKEEHEELEE PARK SOUTH
BOAT LAUNCH AND RESTROOM FACILITY
PALM BEACH COUNTY, FLORIDA

SHEET	19 OF 51
DWG	C13
DATE	NOVEMBER 2016
PROJ	409534

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PROJECT NO. 00-000

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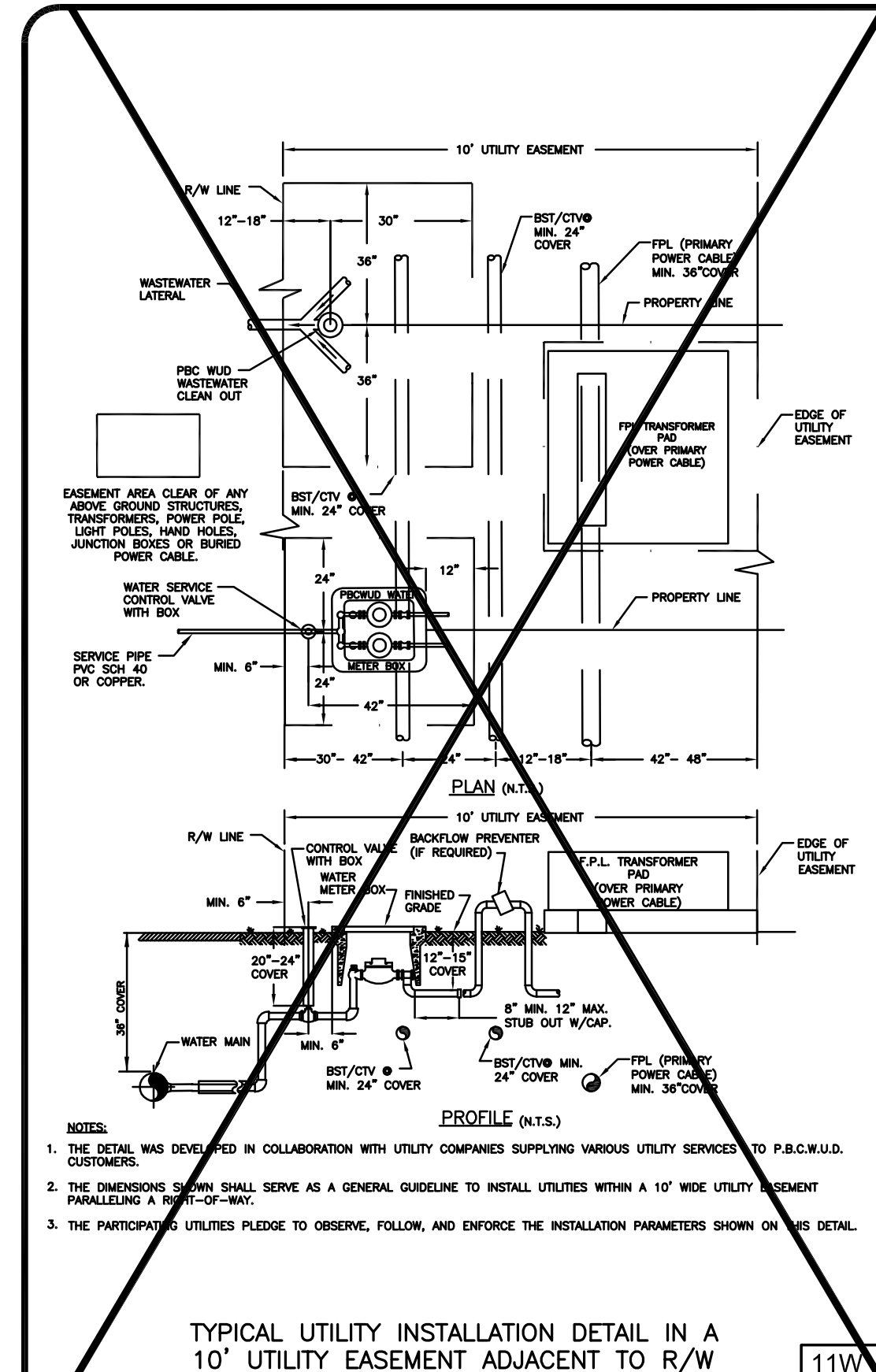
PALM BEACH COUNTY WATER UTILITIES DEPARTMENT WEST PALM BEACH, FL 33416 (561) 933-6000

Table with columns: NO., DATE, REVISION, REMARKS. Includes dates from FEB 2012 to NOV 2012.

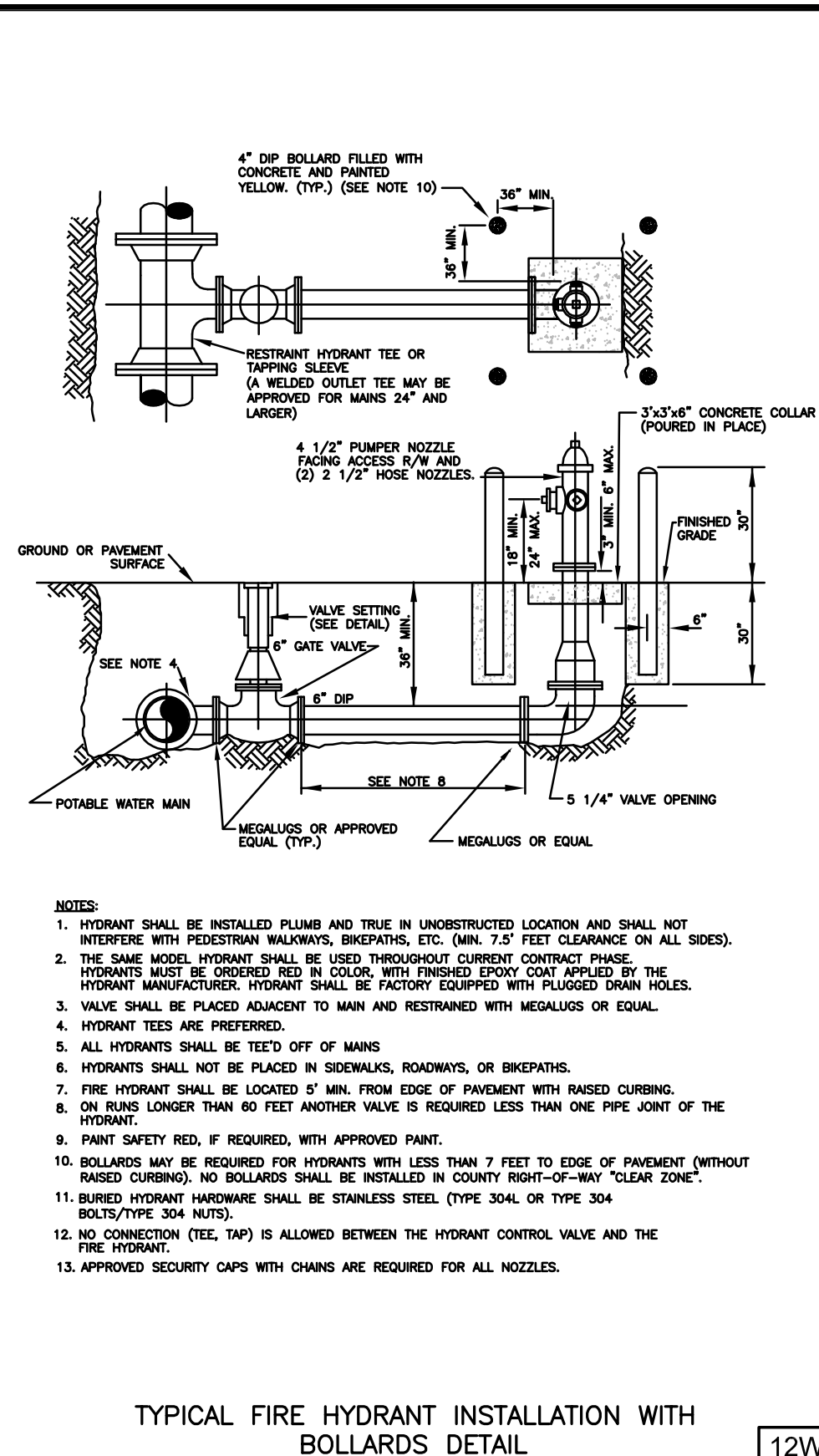
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DESIGNED BY: WUD CHECKED BY: WUD CADD APPROVED BY: WUD

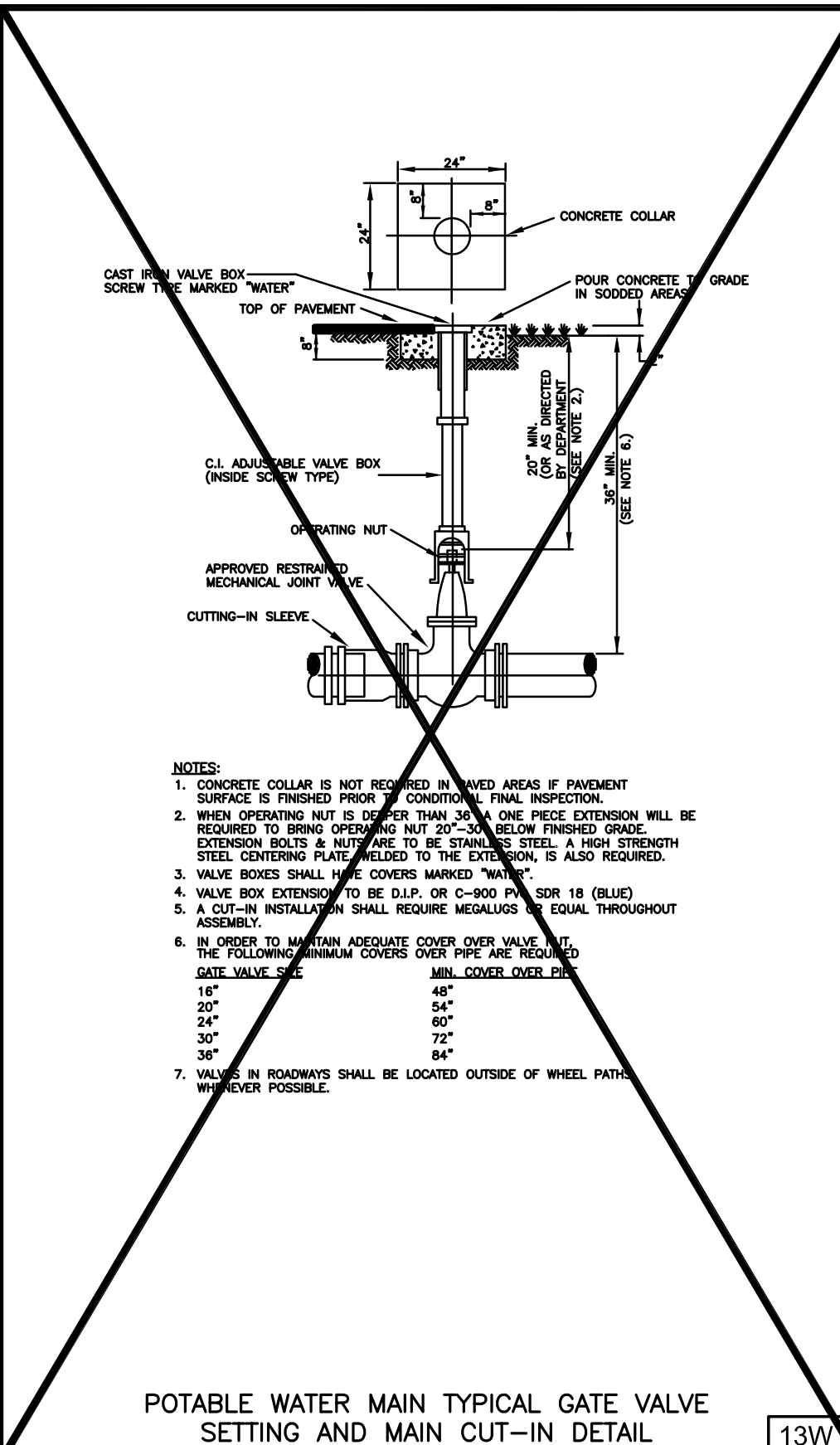
SHEET 20 OF 51 DWG C14 DATE NOVEMBER 2016 PROJ 409534



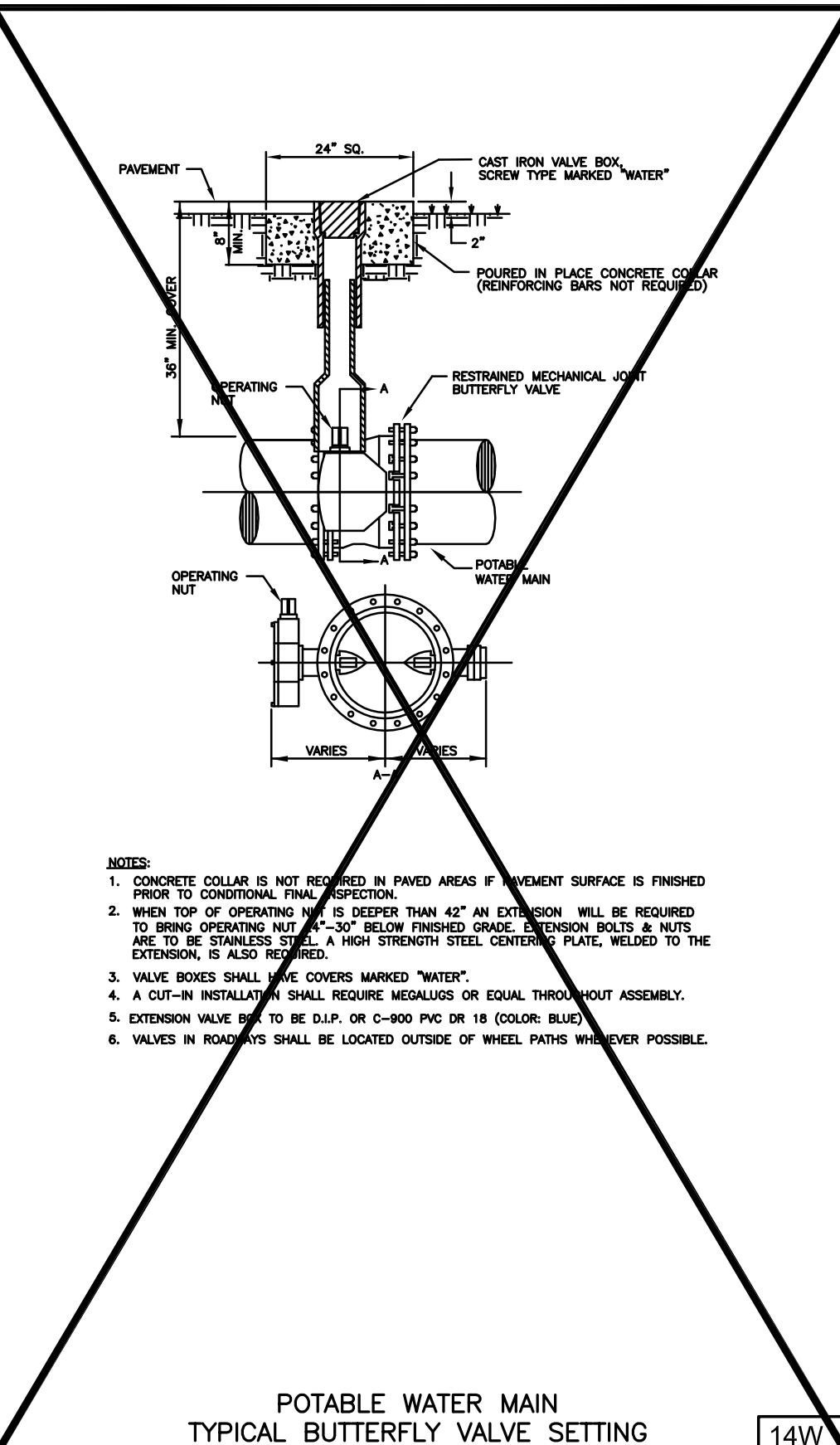
TYPICAL UTILITY INSTALLATION DETAIL IN A 10' UTILITY EASEMENT ADJACENT TO R/W 11W



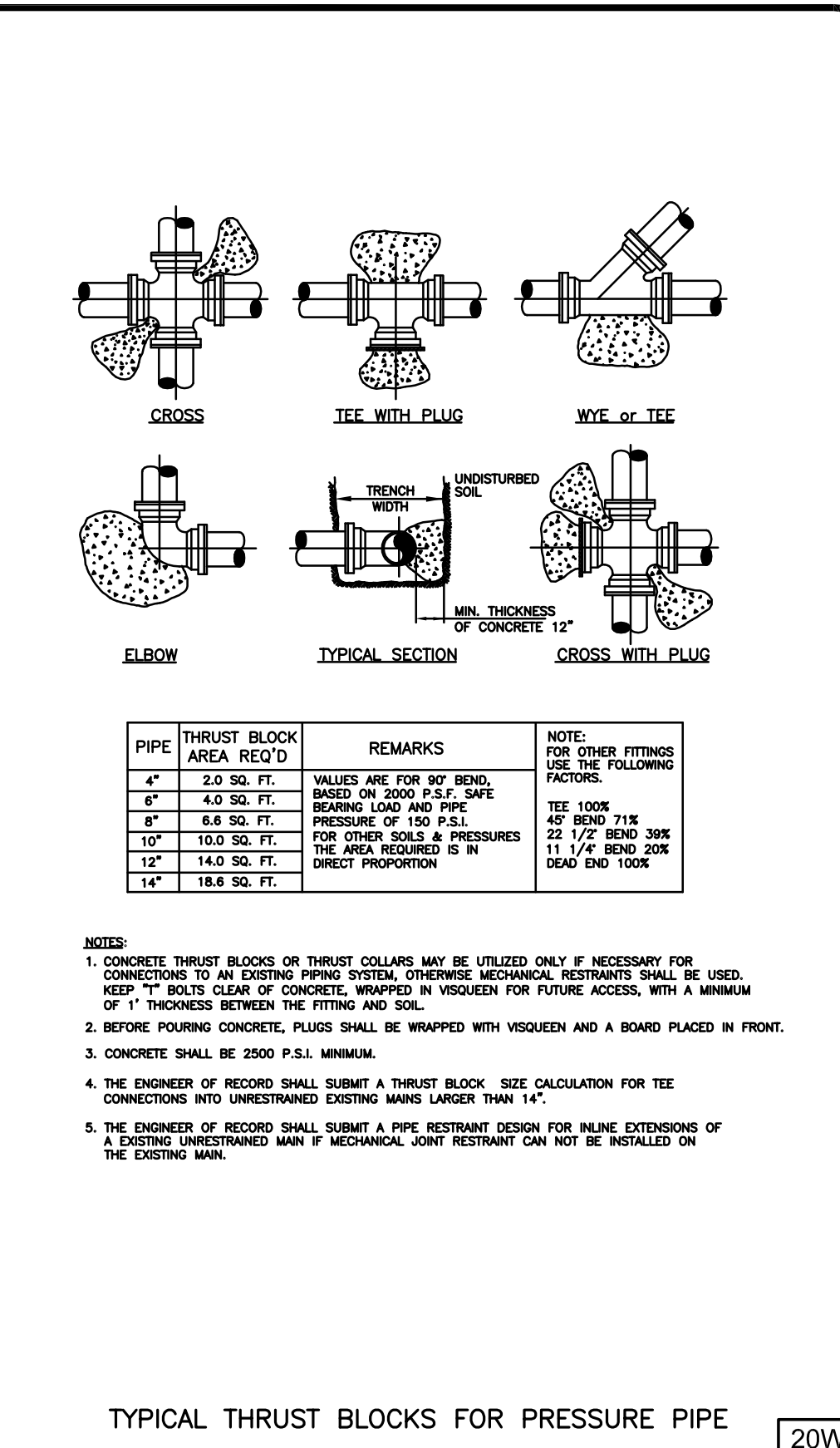
TYPICAL FIRE HYDRANT INSTALLATION WITH BOLLARDS DETAIL 12W



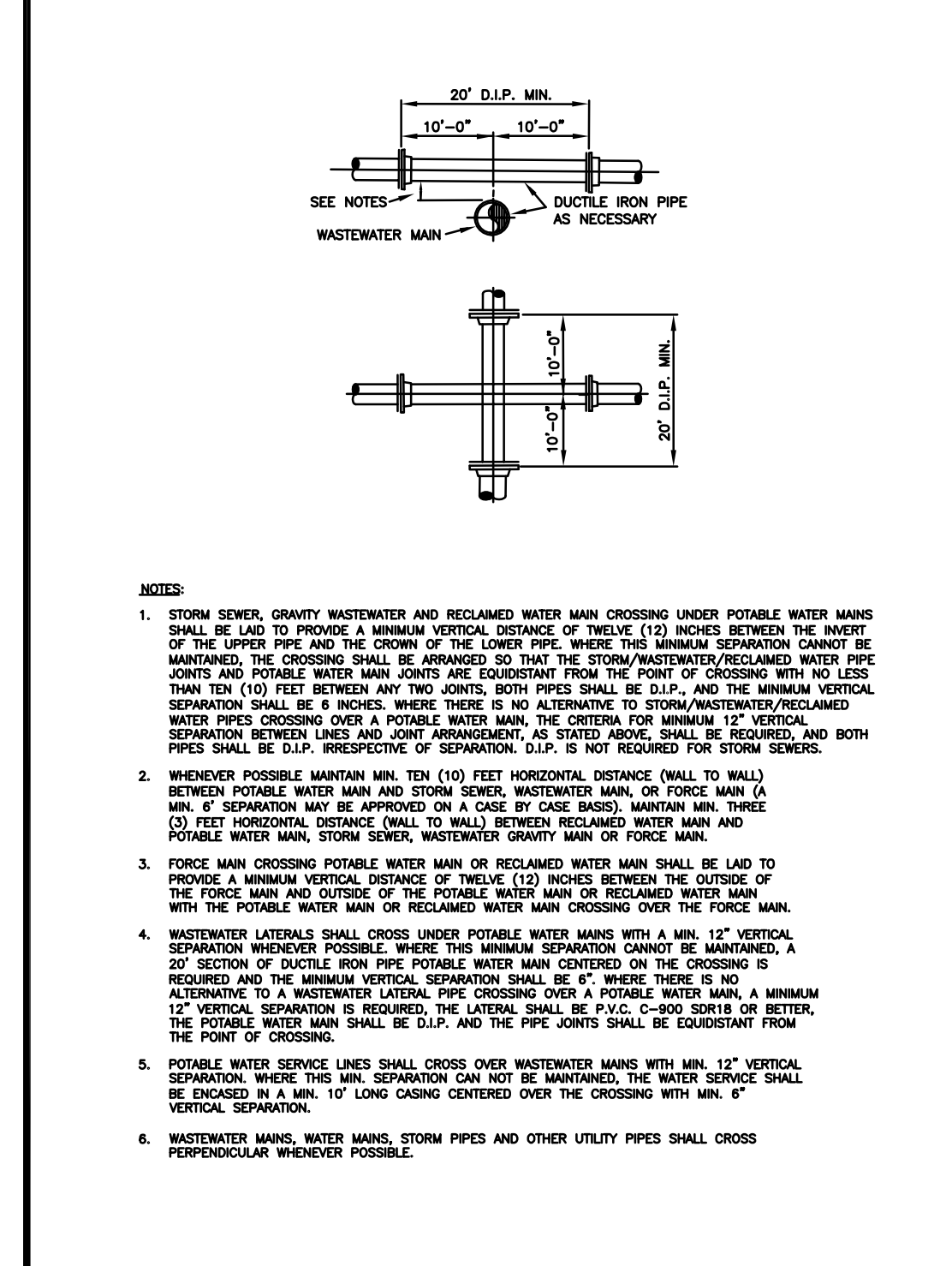
POTABLE WATER MAIN TYPICAL GATE VALVE SETTING AND MAIN CUT-IN DETAIL 13W



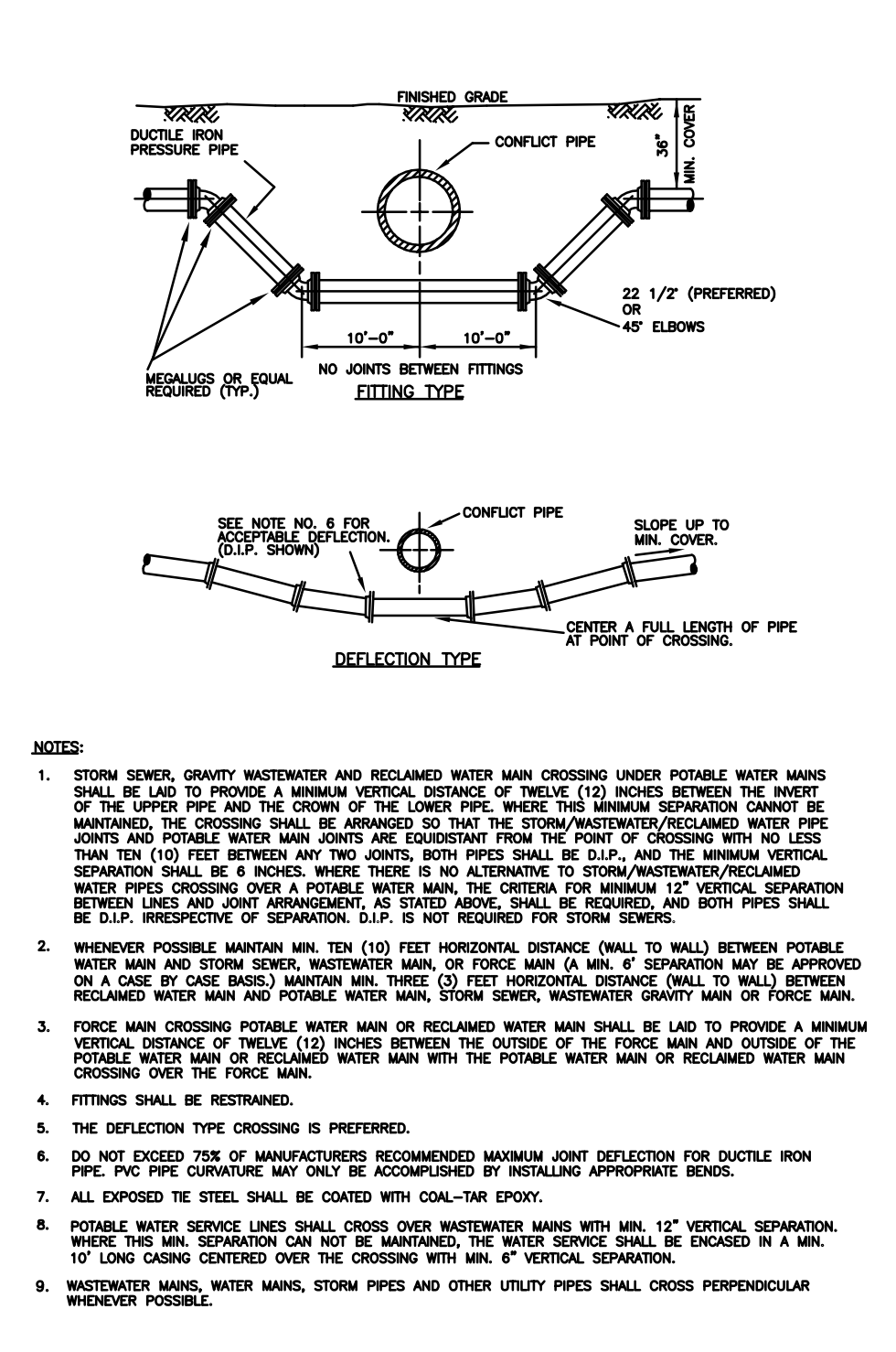
POTABLE WATER MAIN TYPICAL BUTTERFLY VALVE SETTING 14W



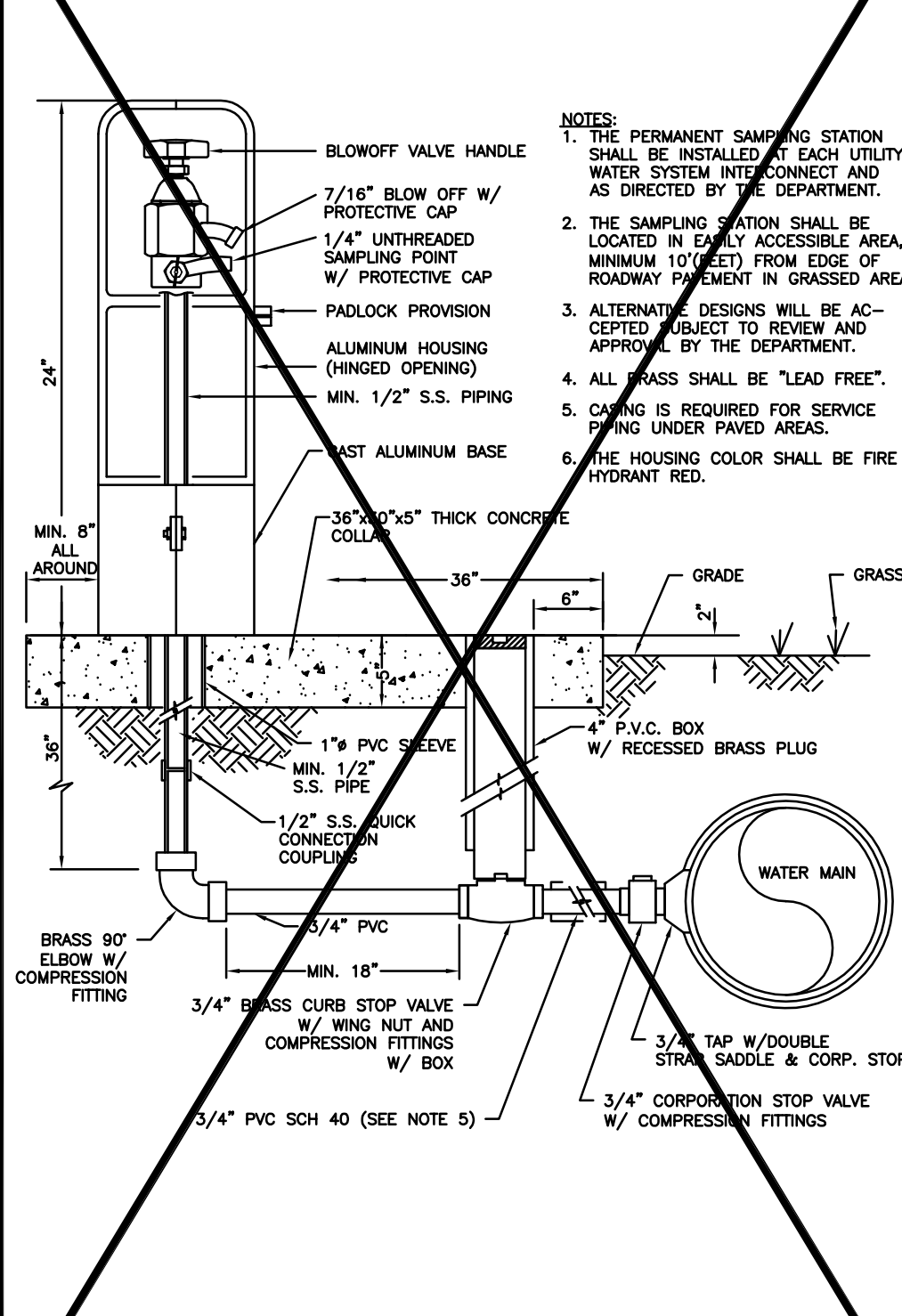
TYPICAL THRUST BLOCKS FOR PRESSURE PIPE 20W



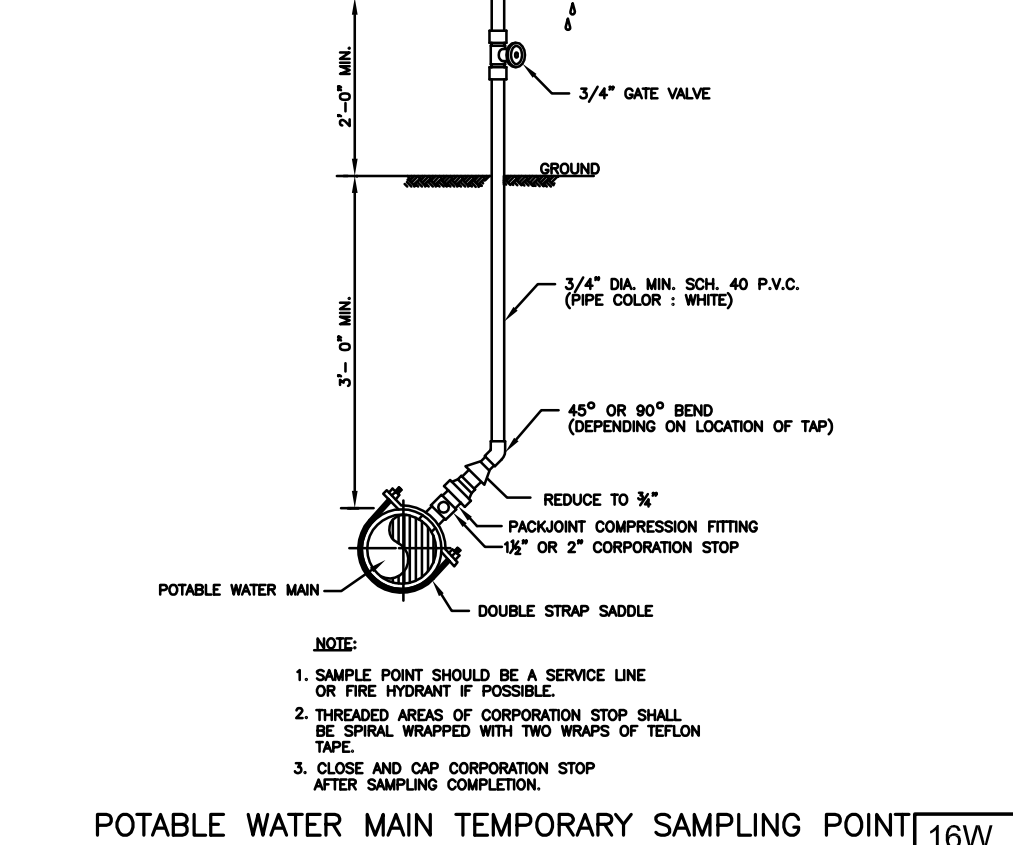
POTABLE WATER, WASTEWATER MAIN AND STORM SEWER CONFLICT 18W



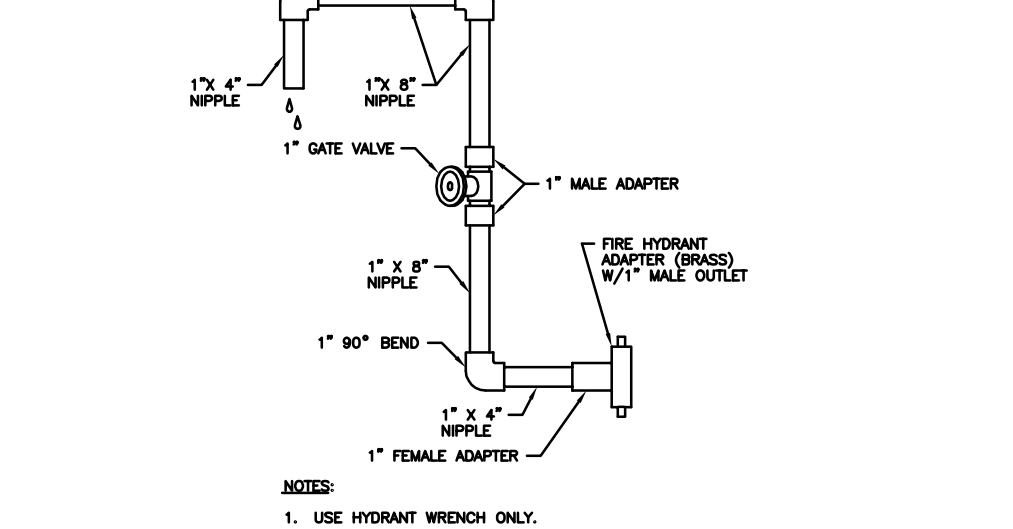
POTABLE WATER MAIN / FORCE MAIN PRESSURE PIPE CONFLICT DETAIL 19W



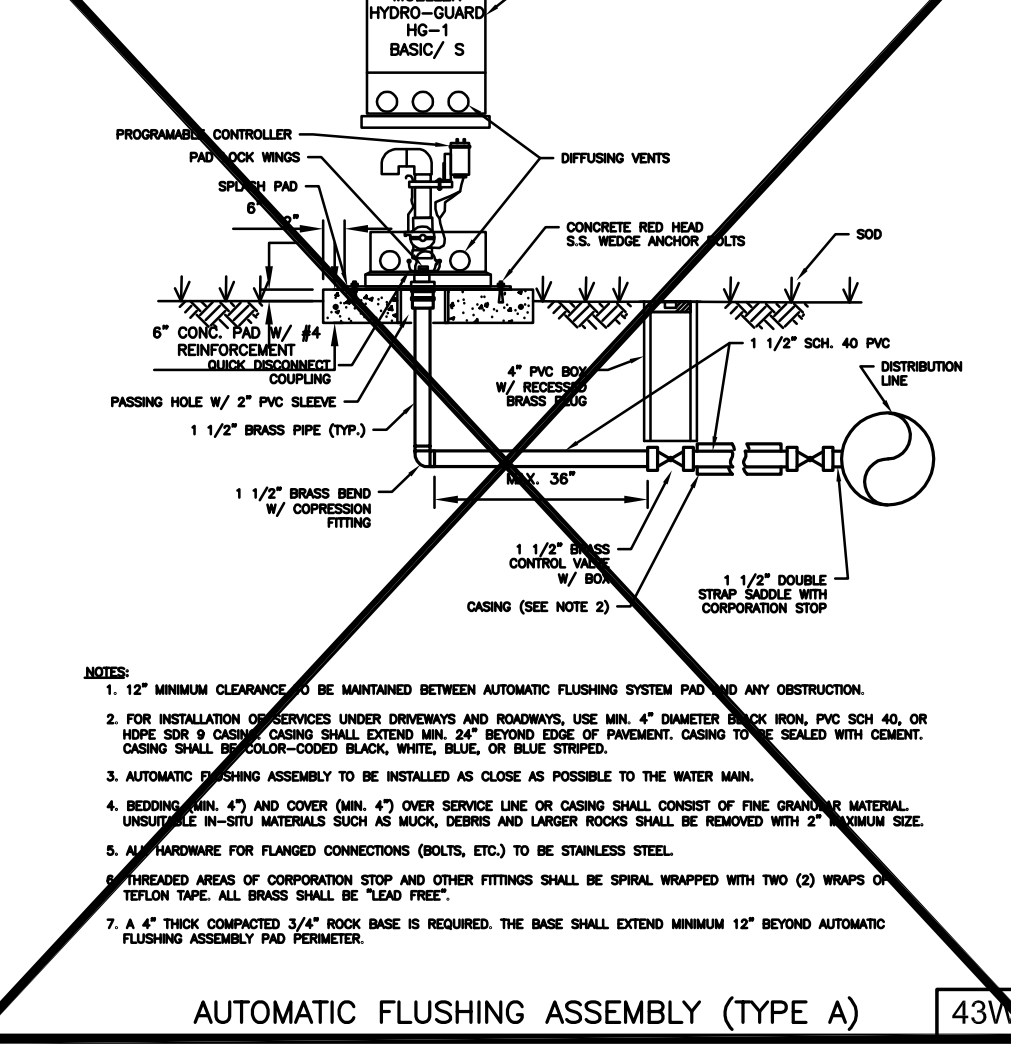
PERMANENT SAMPLING POINT 15W



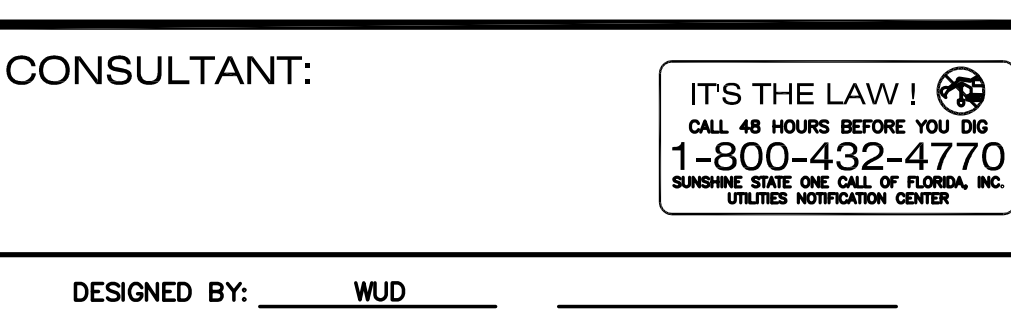
POTABLE WATER MAIN TEMPORARY SAMPLING POINT 16W



POTABLE WATER MAIN FIRE HYDRANT SAMPLING POINT 17W



AUTOMATIC FLUSHING ASSEMBLY (TYPE A) 43W



POTABLE WATER #2 STANDARD DETAILS 44W

Table with columns: DSGN, DR, CHK, APVD, NO., DATE, REVISION, BY, APVD.

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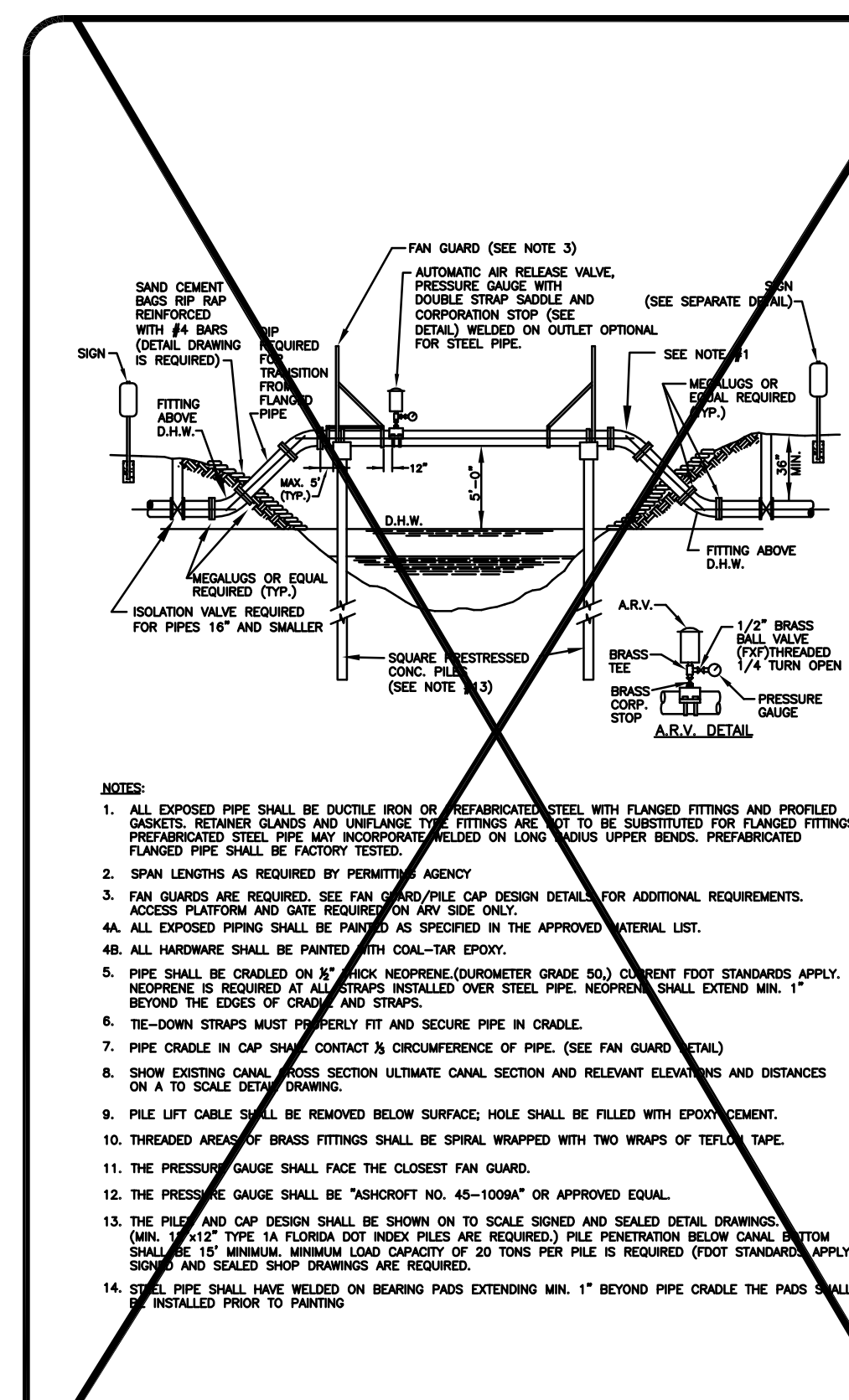
CML POTABLE WATER STANDARD DETAILS SHEET 20 OF 51 DWG C14 DATE NOVEMBER 2016 PROJ 409534

C14-CIVIL DETAILS-WATER DETAILS.dwg Plotted: November 18, 2016

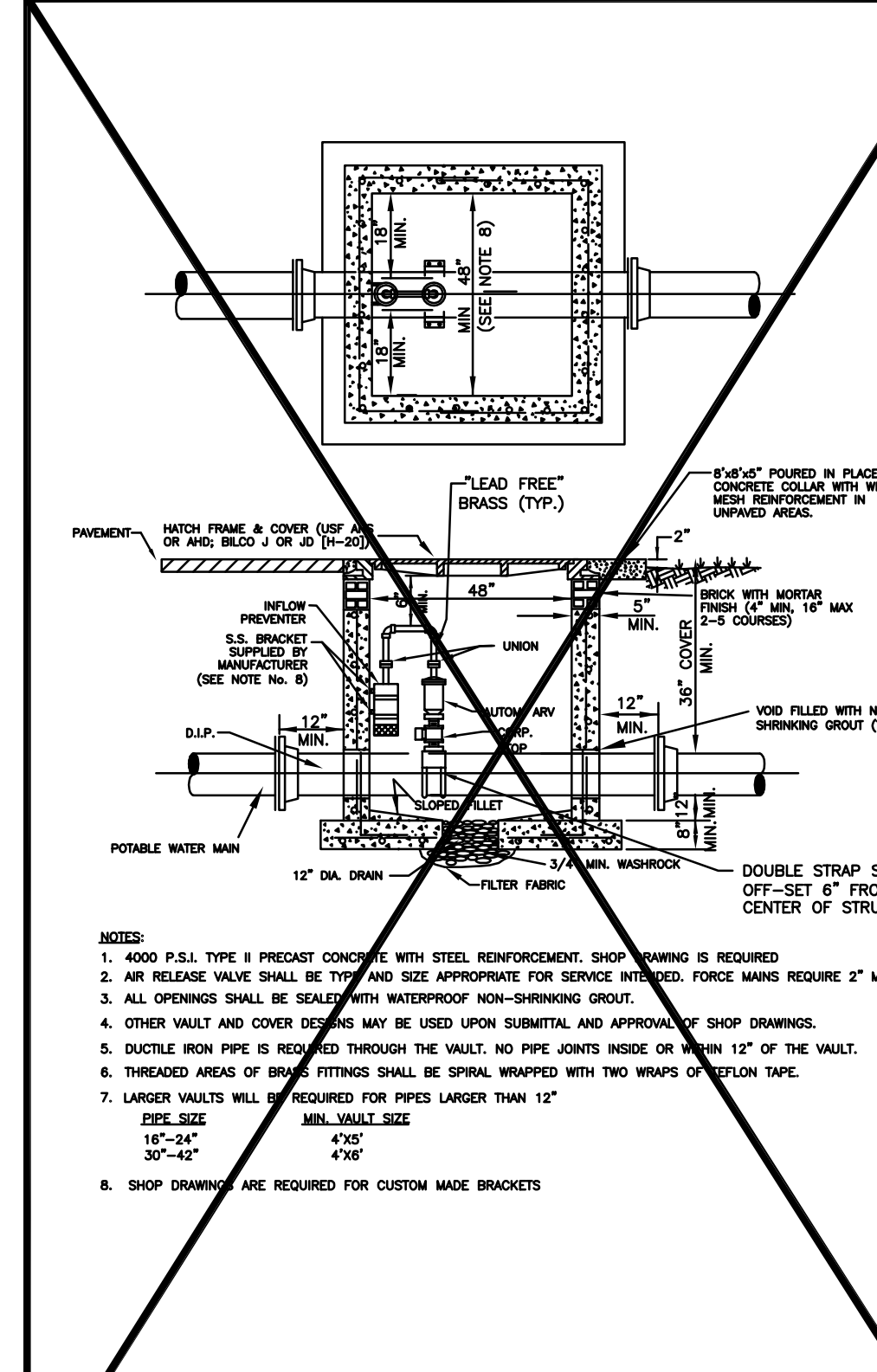
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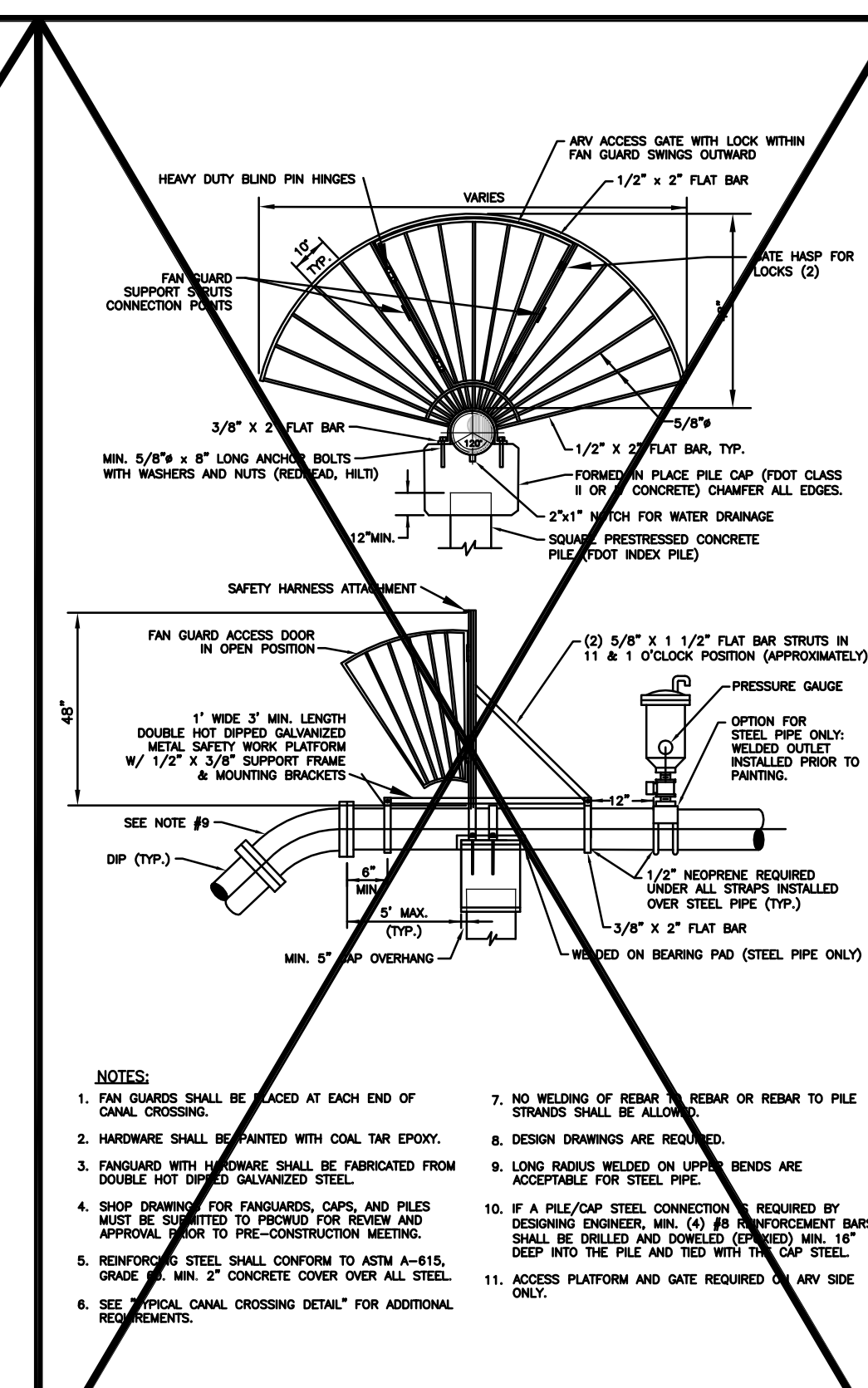
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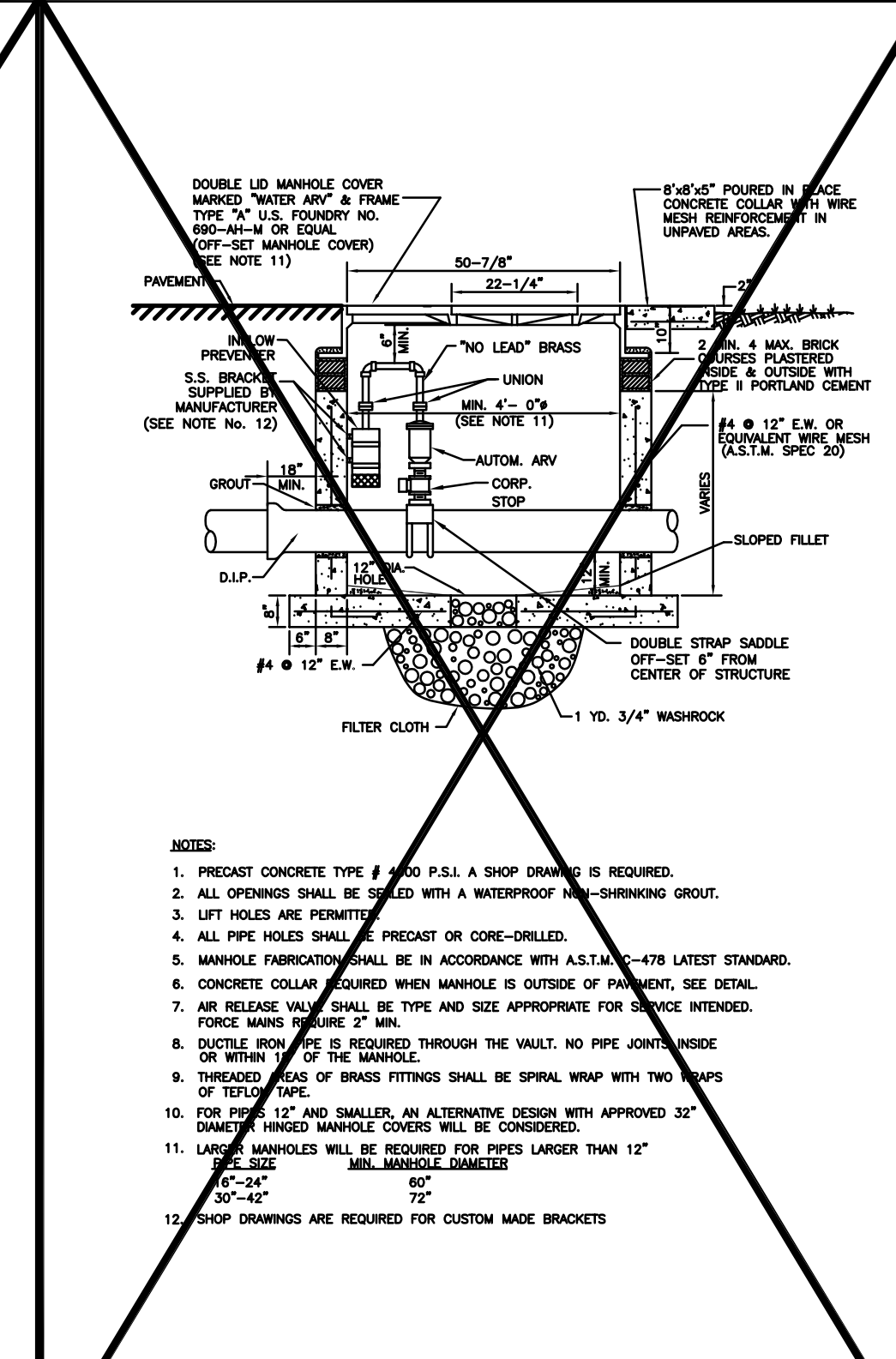
POTABLE WATER MAIN TYPICAL AERIAL CANAL CROSSING SINGLE PIPE (SINGLE PILES) 26W



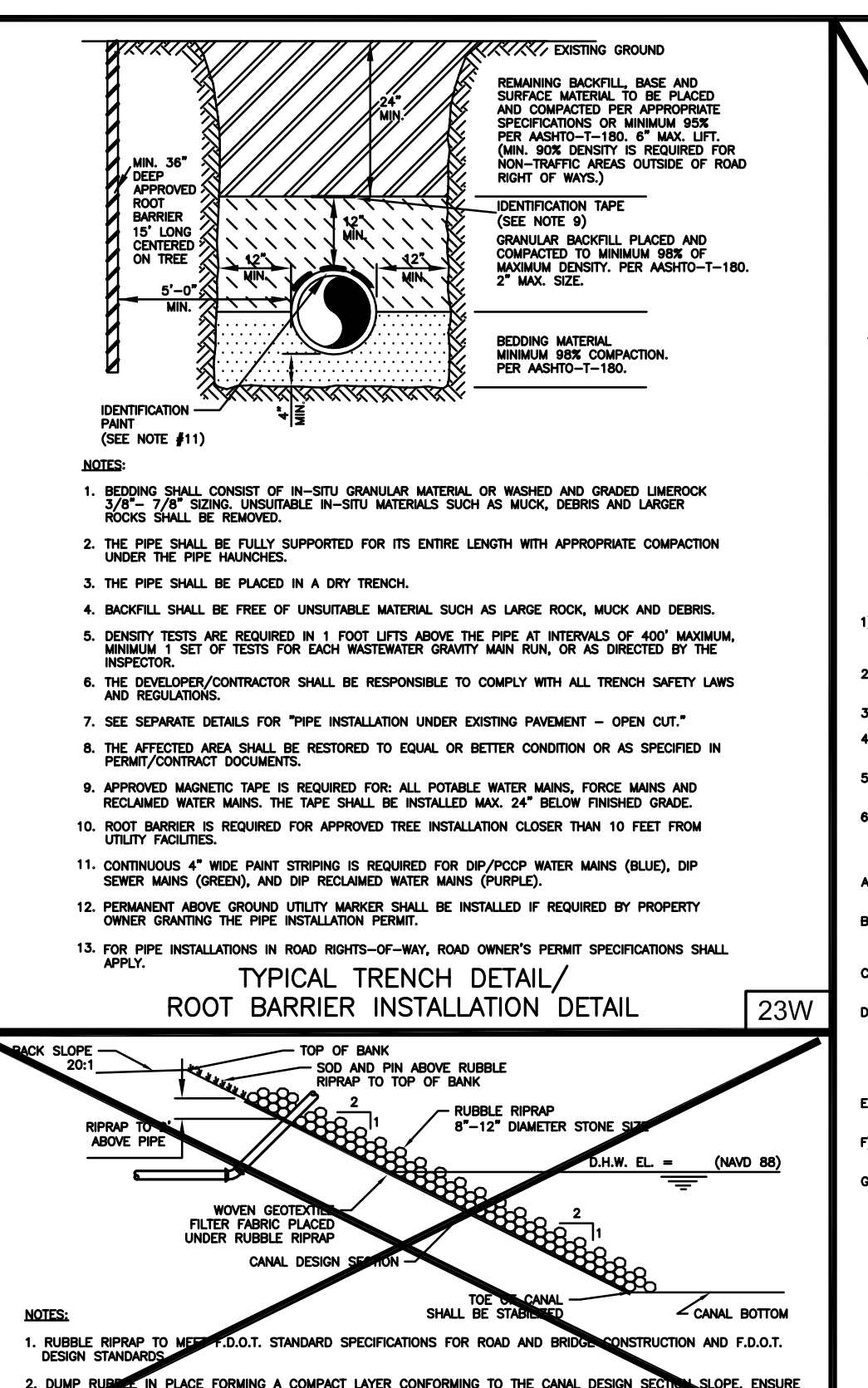
POTABLE WATER MAIN UNDERGROUND AIR RELEASE VALVE AND VAULT IN NON-TRAFFIC AREAS OUTSIDE OF ROAD R/W 26W



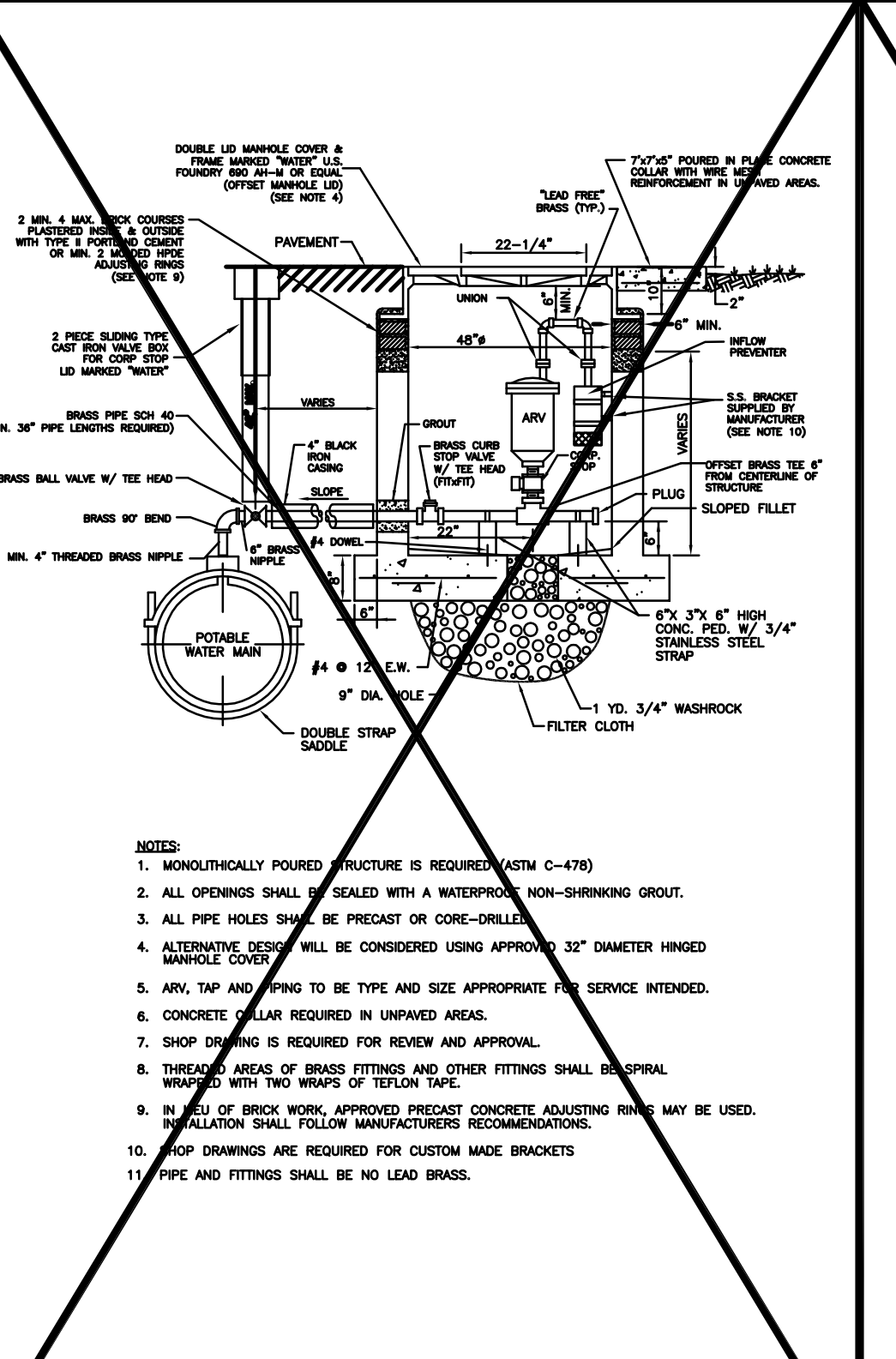
FAN GUARD/PILE CAP DESIGN SINGLE PIPE (SINGLE PILES) 27W



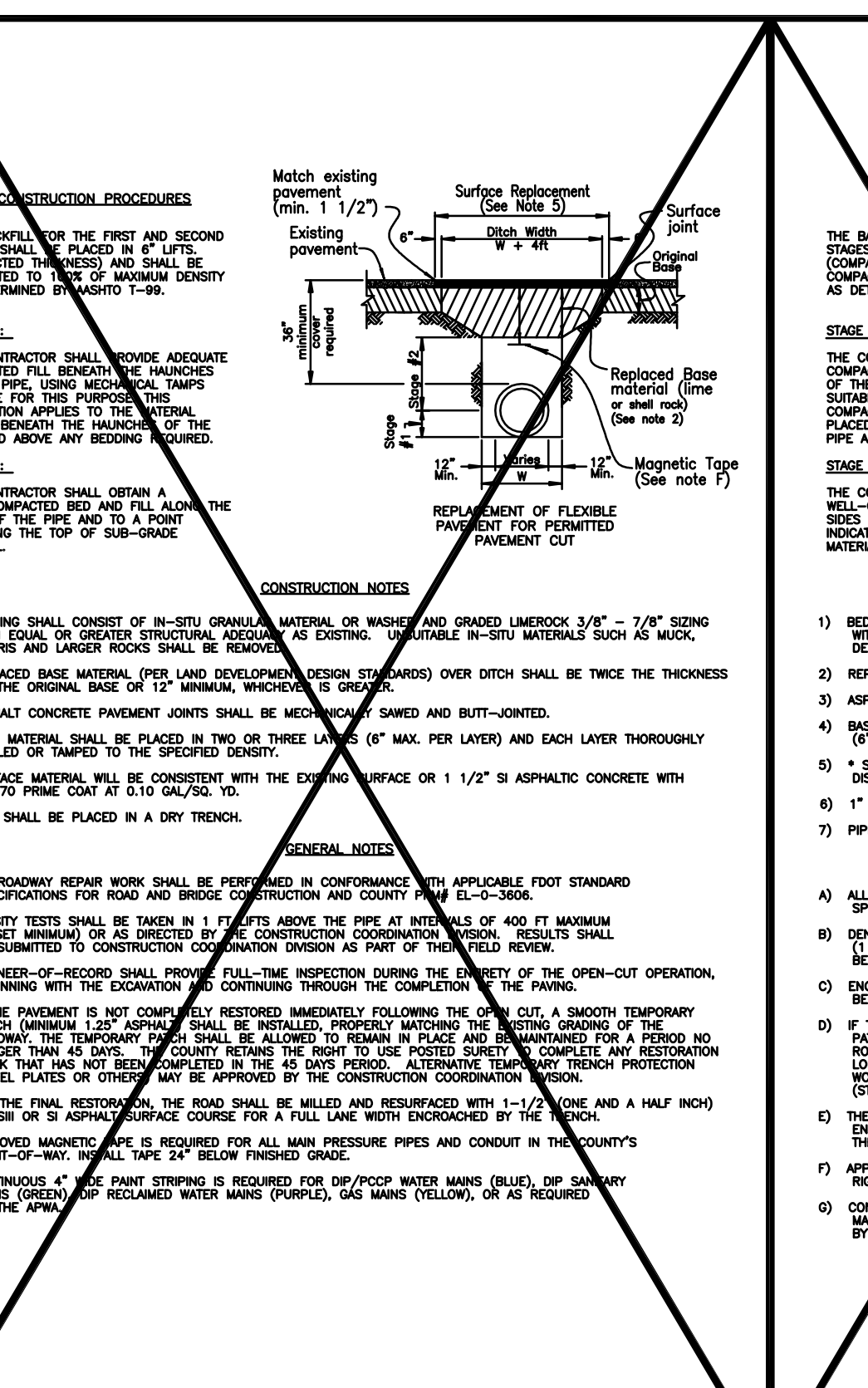
POTABLE WATER MAIN AIR RELEASE MANHOLE IN PAVED AREAS AND ROAD R/W 29W



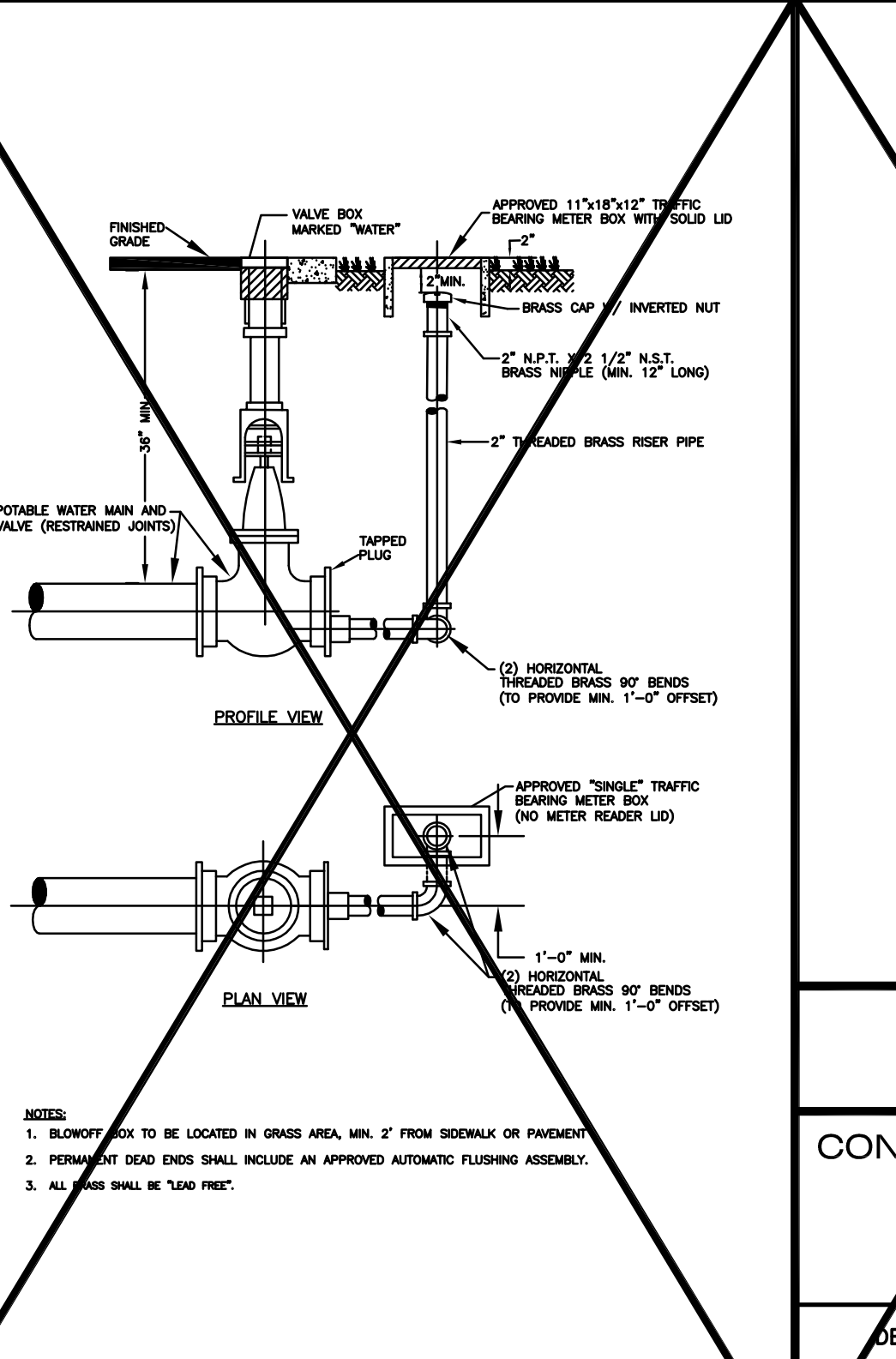
TYPICAL TRENCH DETAIL/ROOT BARRIER INSTALLATION DETAIL 23W



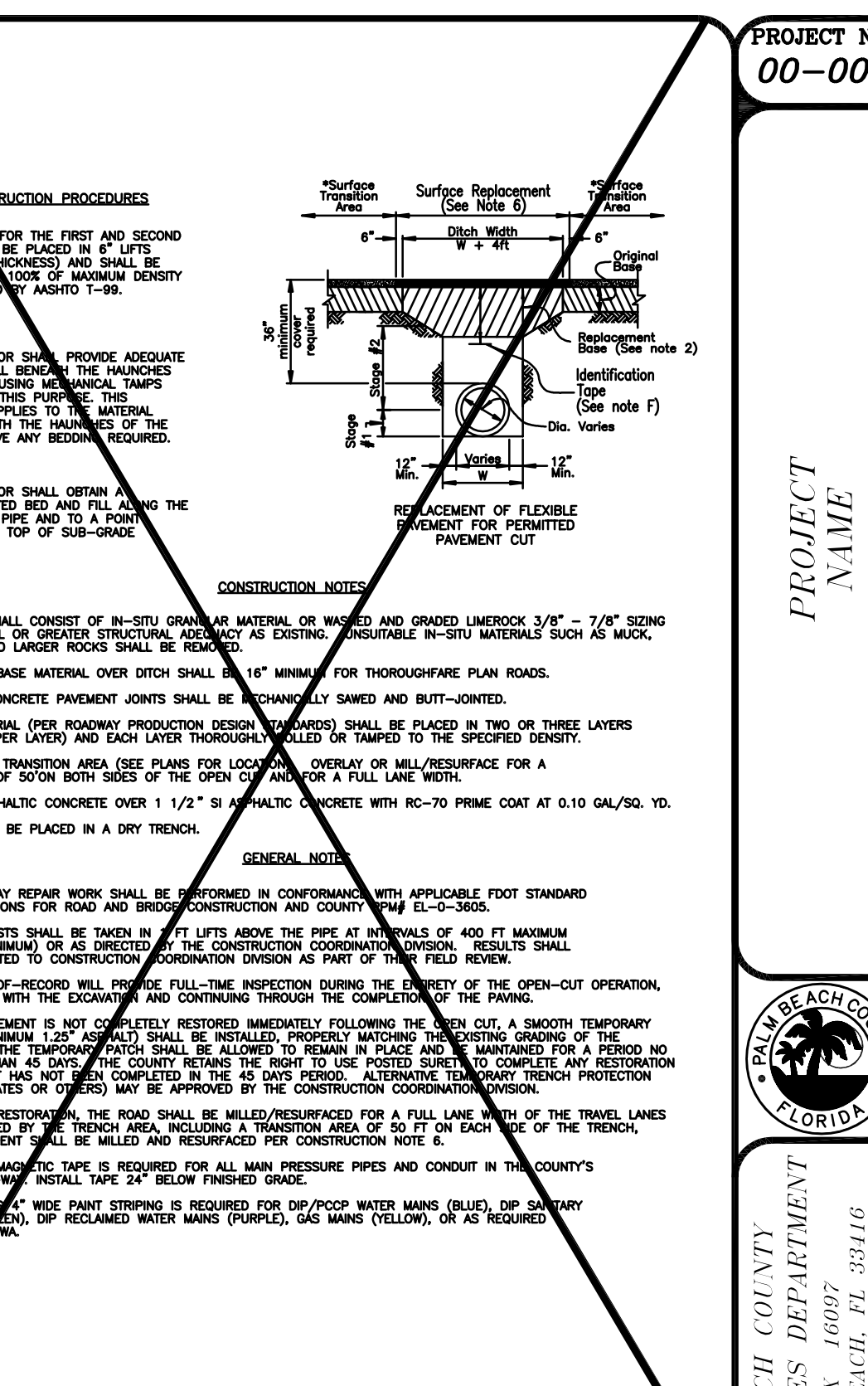
RUBBLE RIPRAP DETAIL 45W



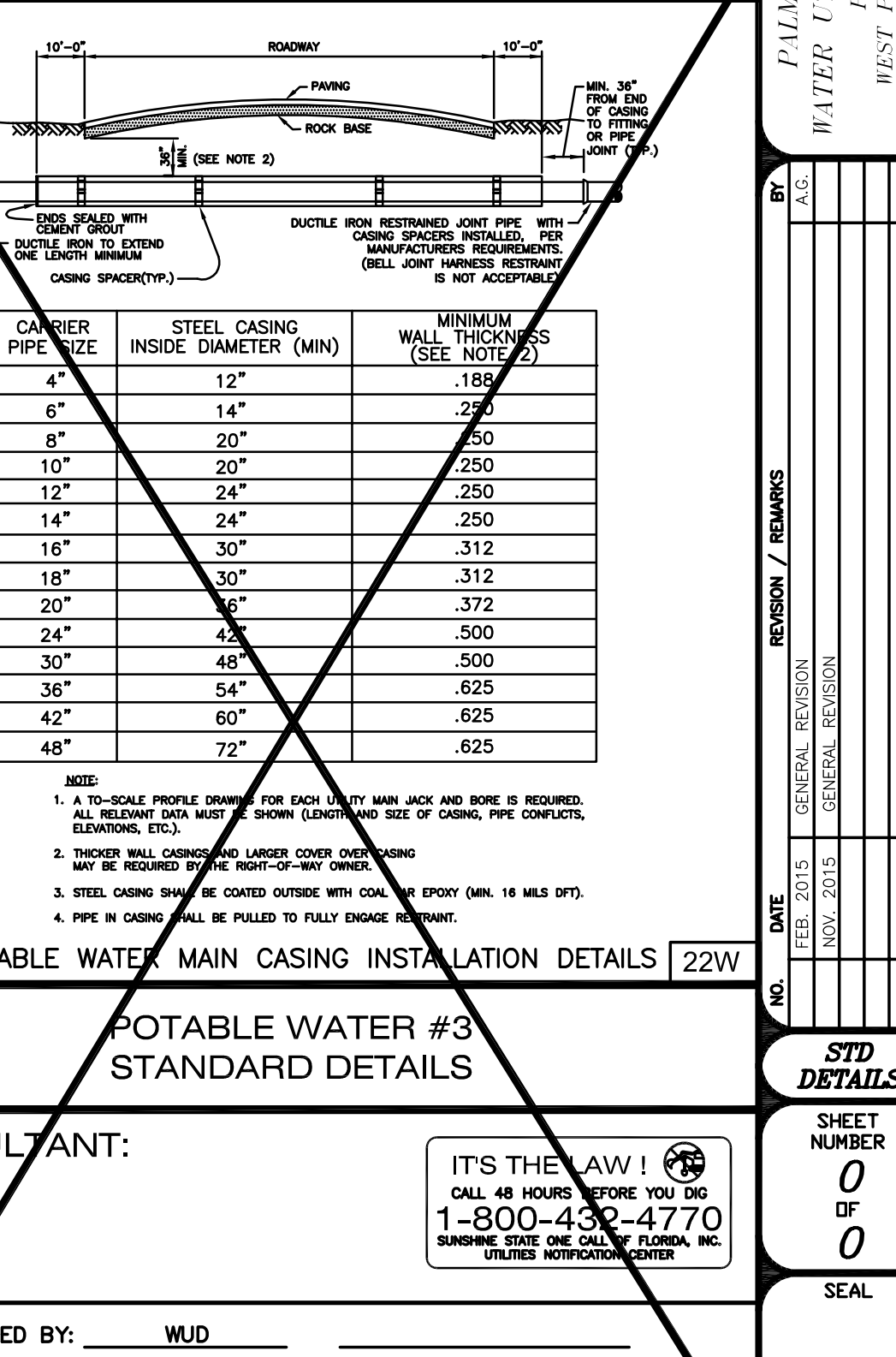
OPEN CUT PIPE INSTALLATION NON-THOROUGHFARE ROAD 24W



TYPICAL 2\"/>



OPEN CUT PIPE INSTALLATION THOROUGHFARE ROAD 25W



POTABLE WATER MAIN CASING INSTALLATION DETAILS 22W

POTABLE WATER #3 STANDARD DETAILS

CONSULTANT:

DESIGNED BY: WUD

DRAWN BY: WUD CADD

CHECKED BY: A. GALICKI

APPROVED BY: WUD

Palm Beach County Water Utilities Department
P.O. Box 16097
West Palm Beach, FL 33416-6097

NOV 17 2016

IT'S THE LAW!
CALL 48 HOURS BEFORE YOU DIG
1-800-432-4770
SCHEDULE ONE ONE ONE FLORIDA, INC.
UTILITIES NOTIFICATION CENTER

DATE: FEB 2012 (GENERAL REVISION)
NOV 2012 (GENERAL REVISION)

REVISION / REMARKS

NO. DATE

1. A TO-SCALE PROFILE DRAWING FOR EACH UTILITY MAIN JACK AND BORE IS REQUIRED. ALL RELEVANT DATA MUST BE SHOWN (LENGTH AND SIZE OF CASING, PIPE COMPLEX, ELEVATIONS, ETC.).

2. THICKER WALL CASINGS AND LARGER COVER OVERSPANS MAY BE REQUIRED BY THE RIGHT-OF-WAY OWNER.

3. STEEL CASING SHALL BE COATED OUTSIDE WITH GALV. OR EPOXY (MIN. 14 MILS DFT).

4. PIPE IN CASING SHALL BE FULLED TO FULLY ENGAGE RESTRAINT.

SHEET NUMBER: 0 OF 0

SEAL

CONSTRUCTION SET NOVEMBER 2016

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BOAT LAUNCH AND RESTROOM FACILITY
PALM BEACH COUNTY, FLORIDA

CML
POTABLE WATER
STANDARD DETAILS

SHEET 21 OF 51
DWG C15
DATE NOVEMBER 2016
PROJ 409534

DESIGN: PBC UTILITY DEPT
DR: PBC UTILITY DEPT
CHK: PBC UTILITY DEPT
APVD: PBC UTILITY DEPT

NO. DATE

REVISION

BY APVD

Plotted: November 17, 2016

C15-CIVIL DETAILS-WATER DETAILS.dwg

PROJECT NO. 00-000

PROJECT NAME

PALM BEACH COUNTY WATER UTILITIES DEPARTMENT WEST PALM BEACH, FL 33416 (561) 833-6000

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PROJECT NO. 00-000

PROJECT NAME



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Table with columns: DATE, REVISION, REMARKS, NO., DESCRIPTION. Includes dates 11/07/2012 and 11/09/2012.

STD DETAILS SHEET NUMBER 0 OF 0 SEAL

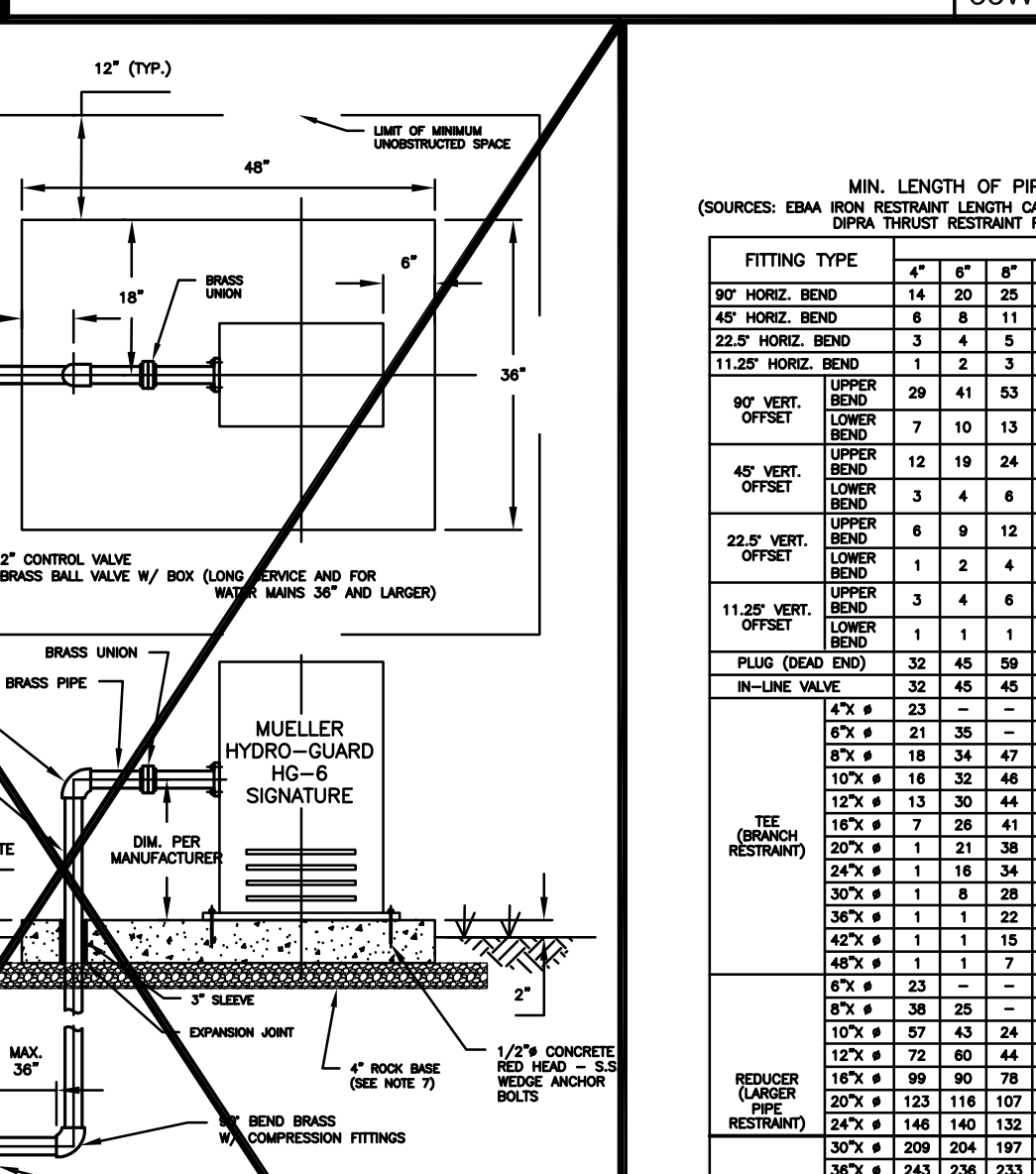
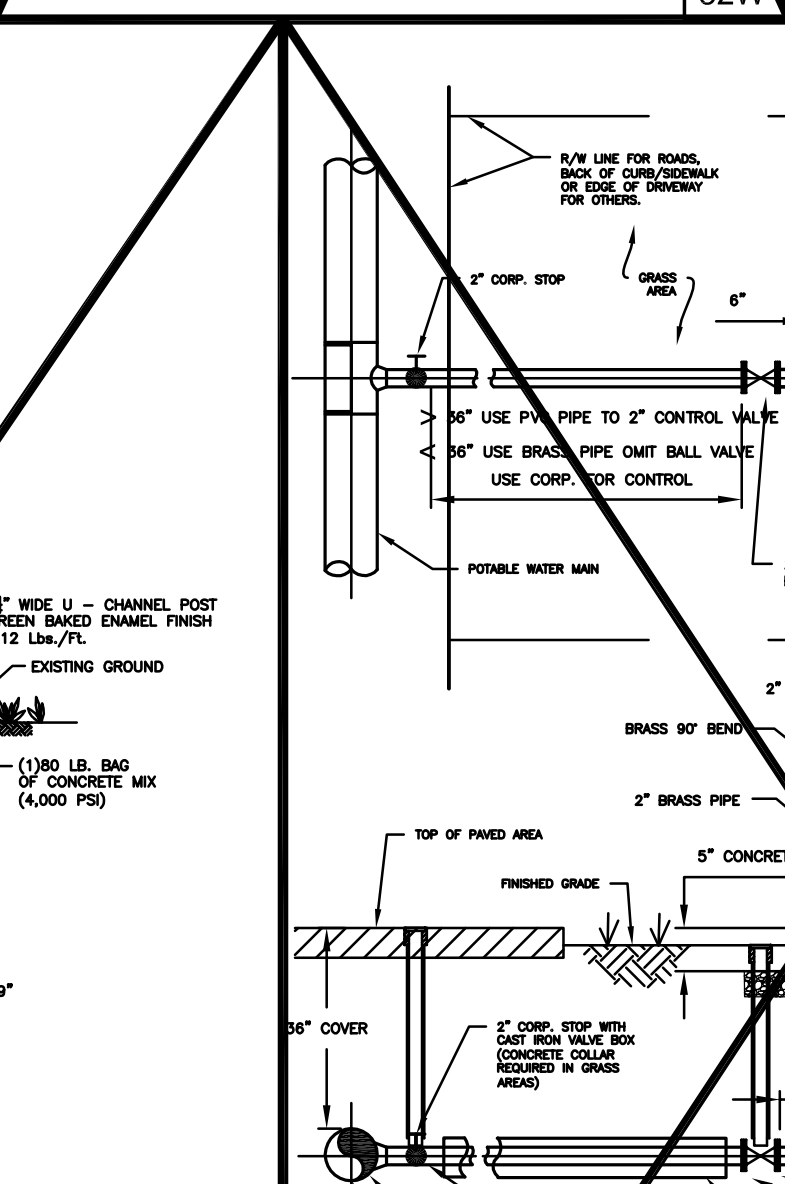
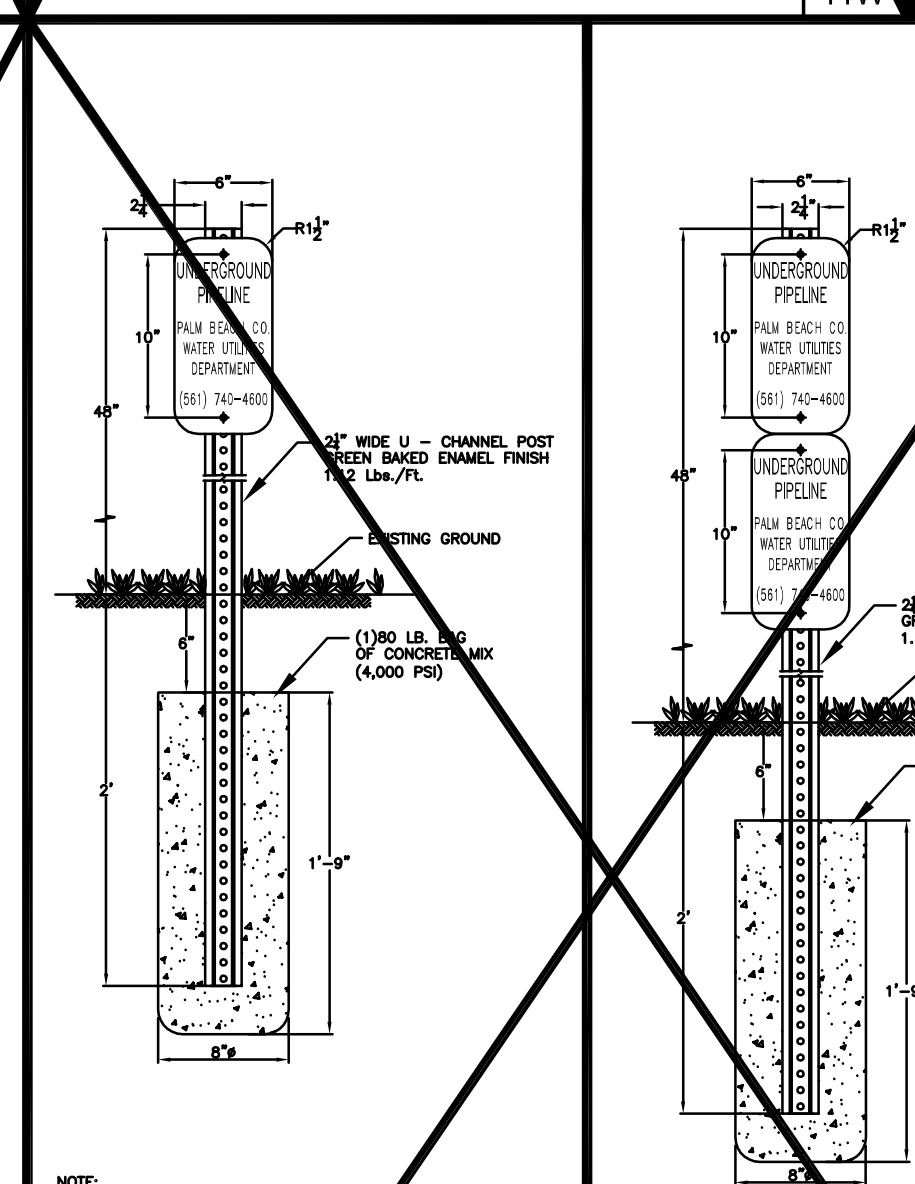
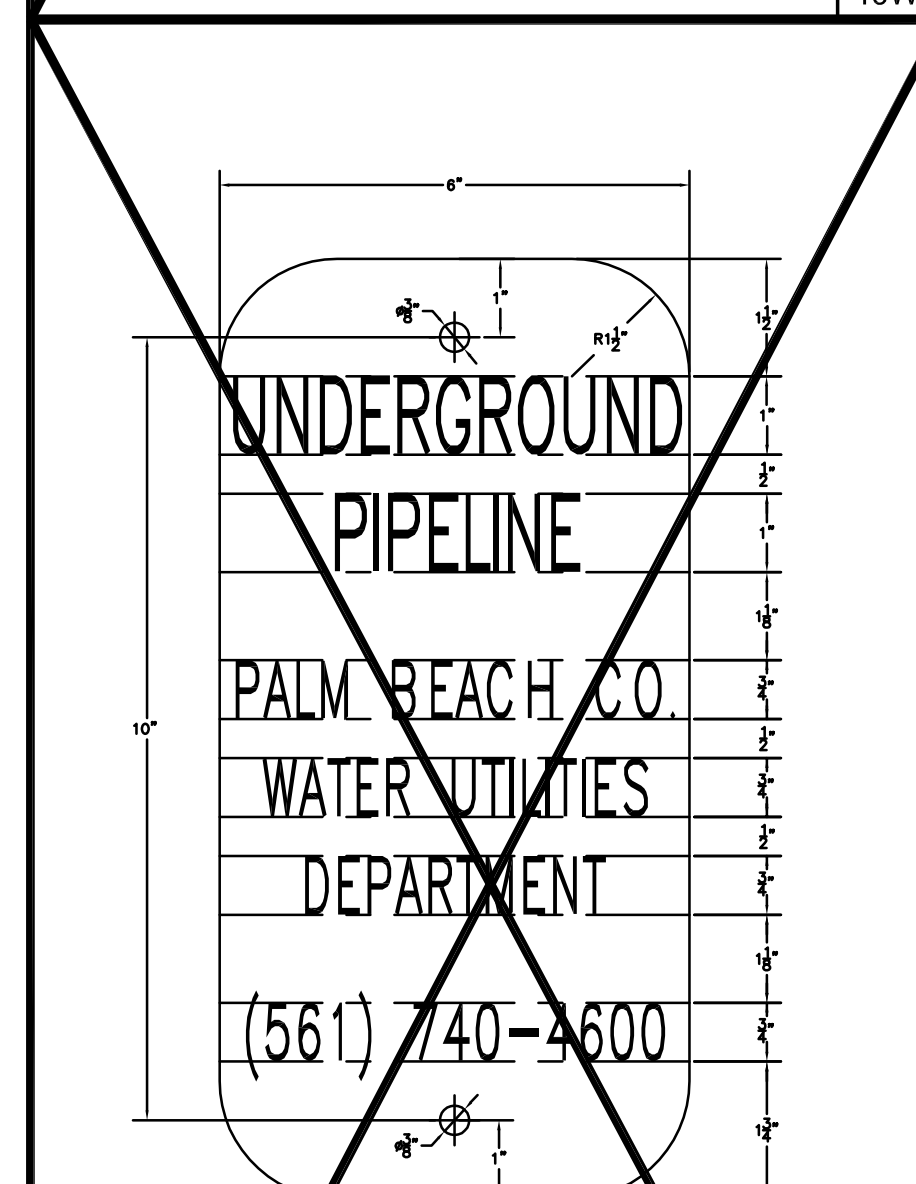
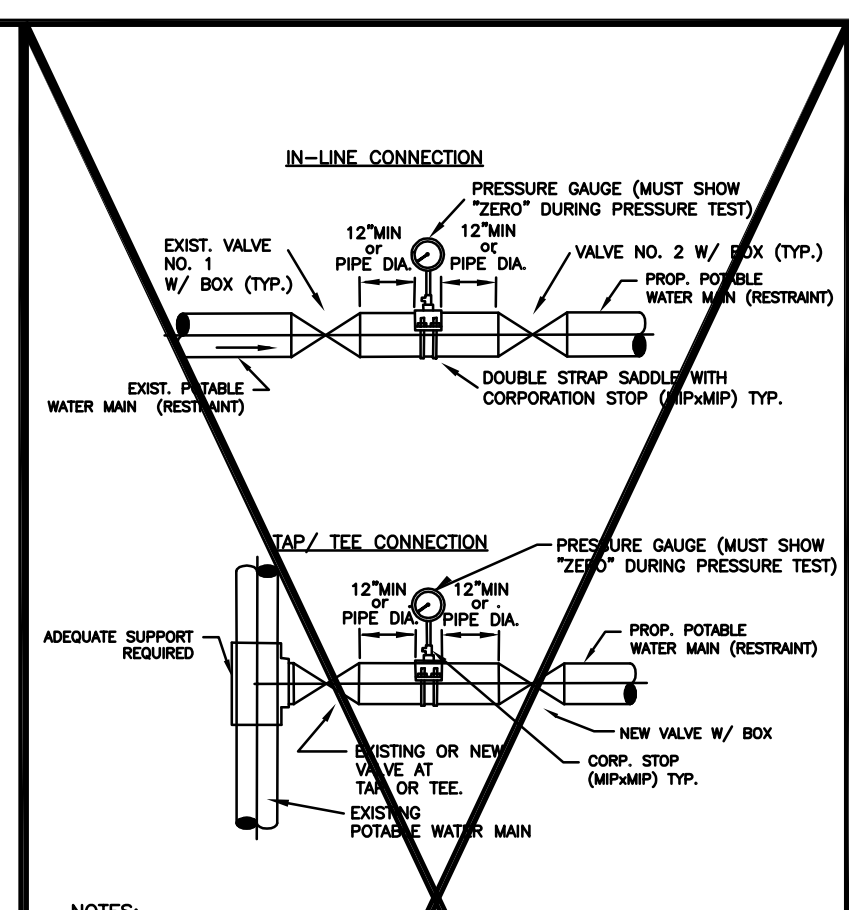
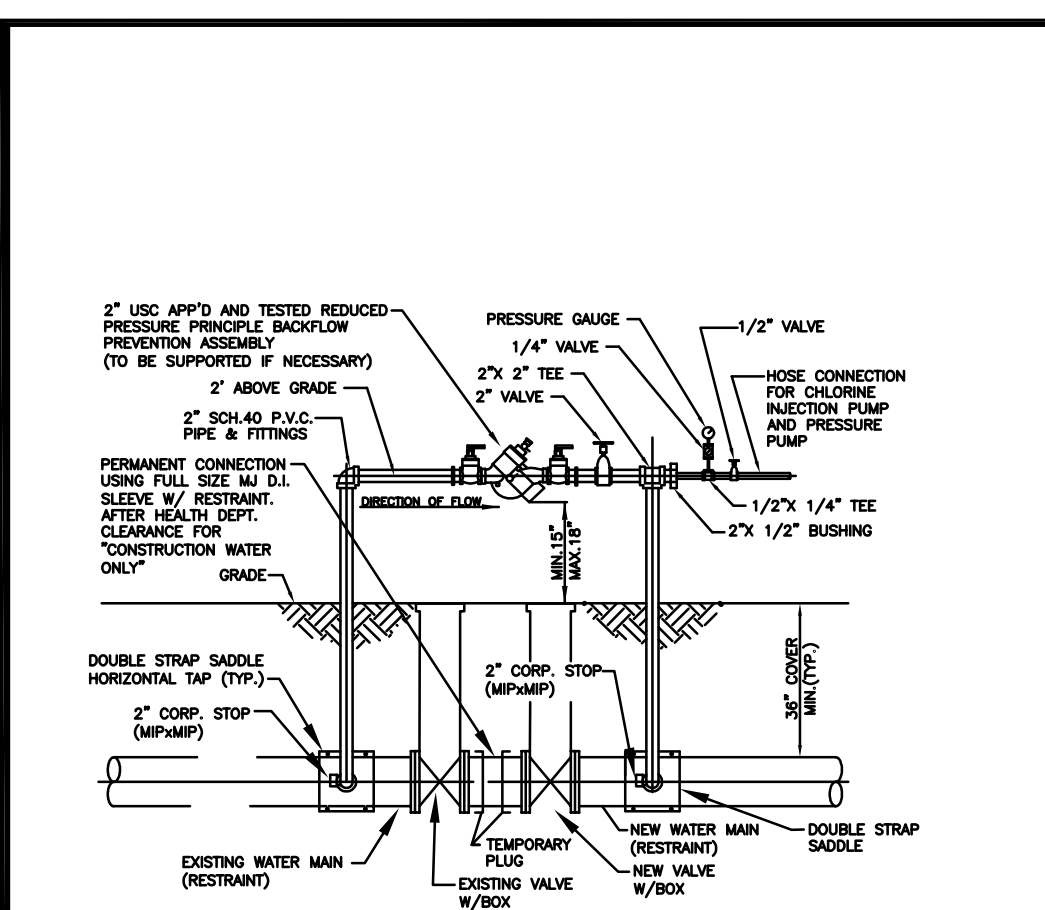
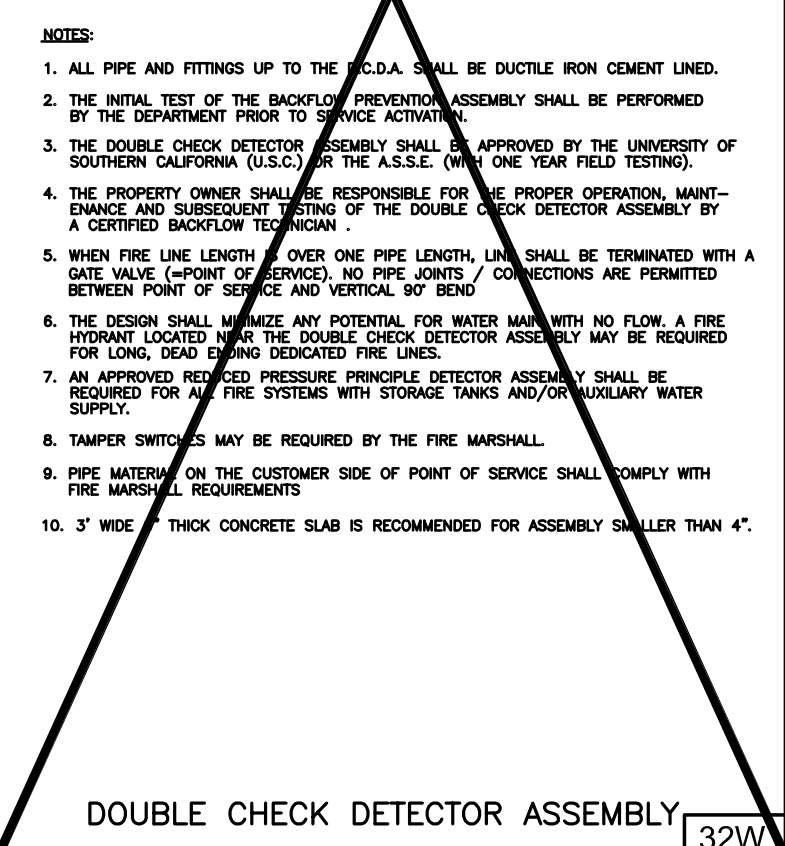
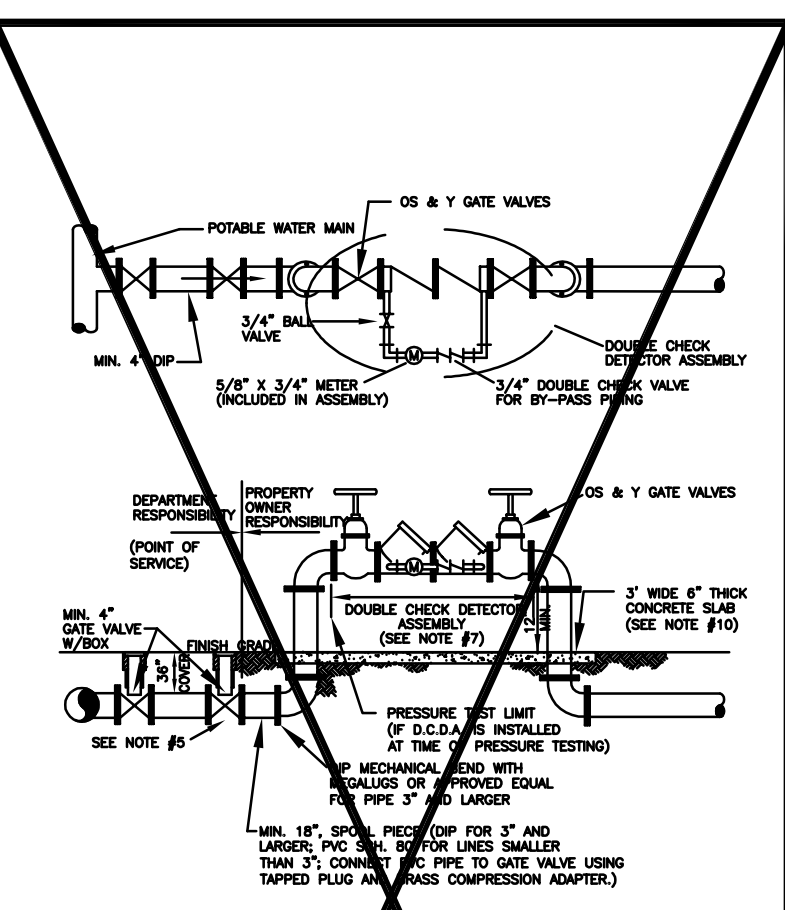
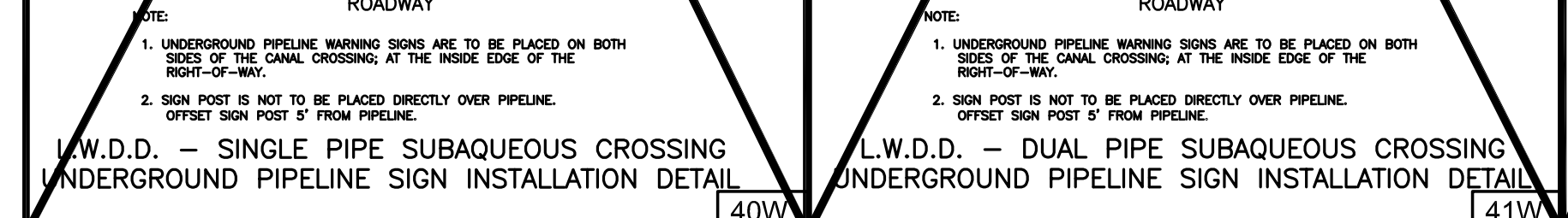
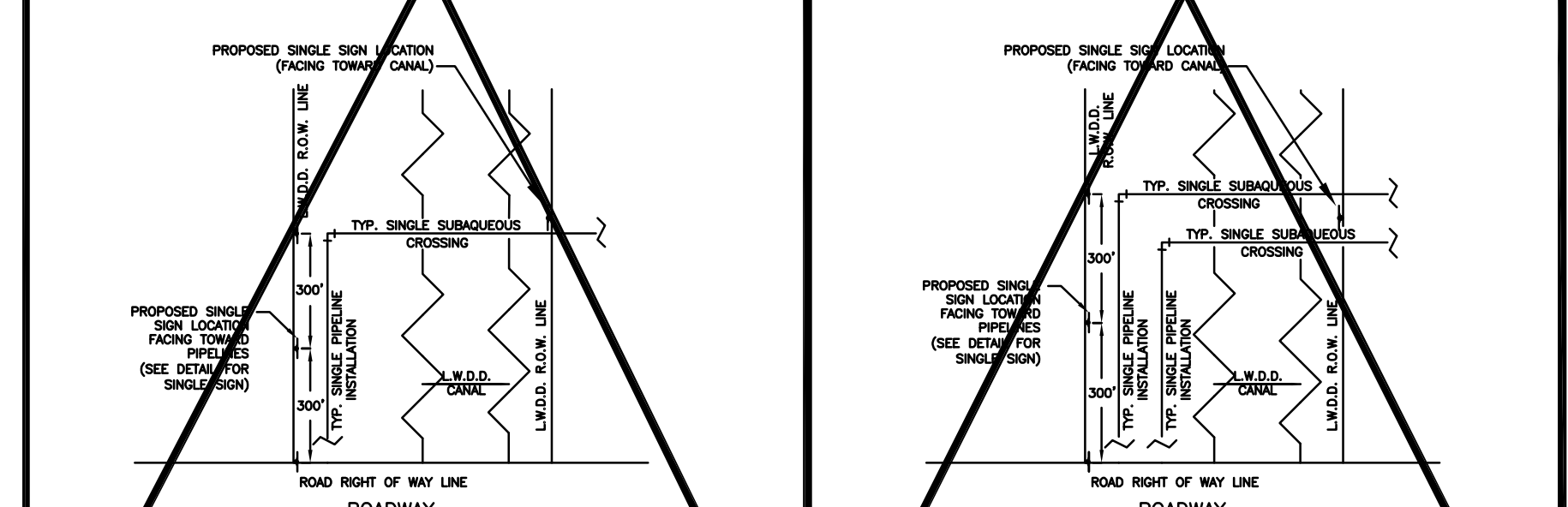
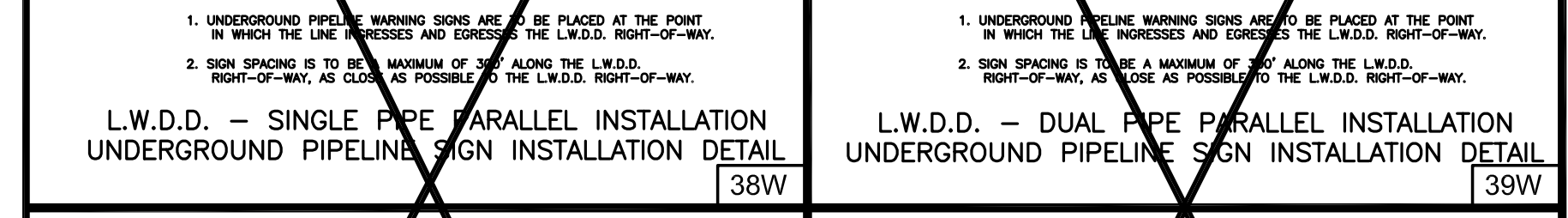
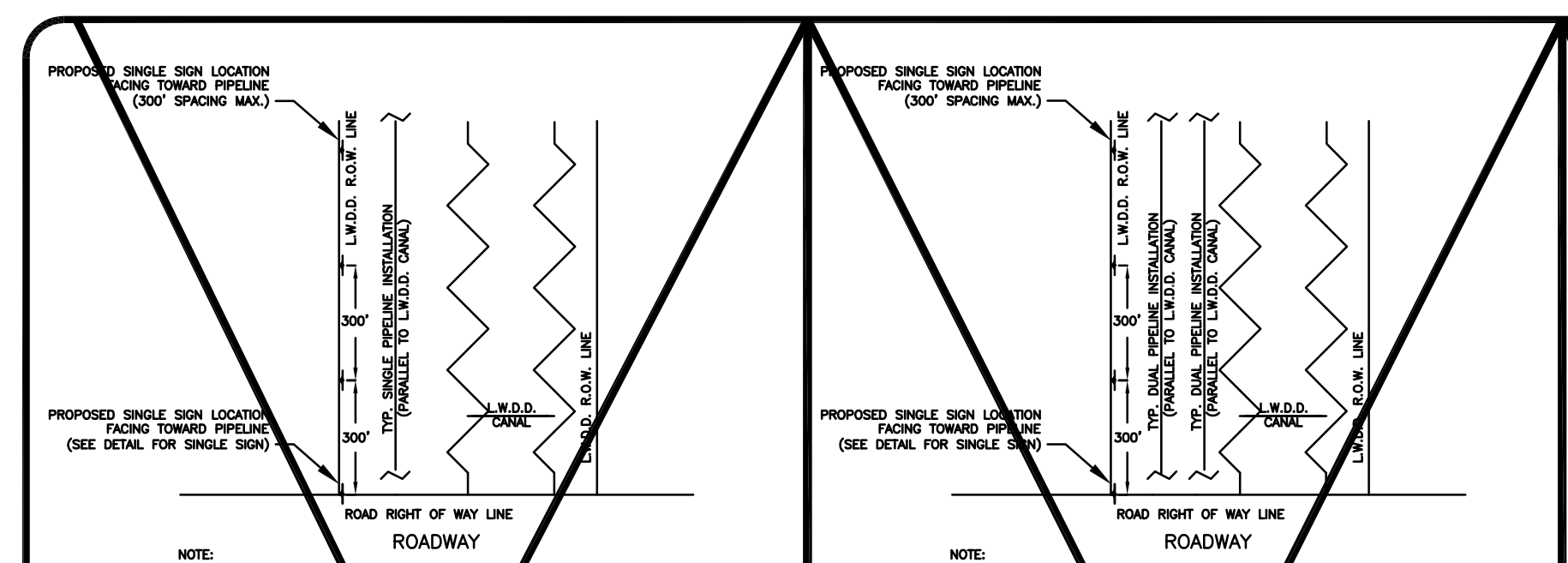


Table: MINIMUM LENGTH OF PIPE (FEET) TO BE RESTRAINED. Includes columns for pipe size (4\"/>

Table: POTABLE WATER MAIN PRESSURE TEST CRITERIA. Includes columns for pipe diameter (inches) and test pressure (PSI). Includes a formula for L = (20 x D) x (D)^1/2 x 1/2 / 46000.

NOTES: 1. UNDERGROUND PIPELINE WARNING SIGNS ARE TO BE PLACED AT THE POINT IN WHICH THE LINE INGRESSES AND EGRESSES THE L.W.D.D. RIGHT-OF-WAY. 2. SIGN SPACING IS TO BE A MAXIMUM OF 300' ALONG THE L.W.D.D. RIGHT-OF-WAY, AS CLOSE AS POSSIBLE TO THE L.W.D.D. RIGHT-OF-WAY.

NOTES: 1. ALL PIPE AND FITTINGS UP TO THE 10\"/>

NOTES: 1. THE DATA IN THE ABOVE TABLE ARE BASED UPON THE FOLLOWING INSTALLATION CONDITIONS: SOIL TYPE-SAND TEST PRESSURE-150 PS/200 PSI DEPTH OF BURIAL-3'

NOTES: 1. TO OBTAIN THE MAXIMUM QUANTITY OF WATER FOR PIPE WITH 20 FT. NOMINAL LENGTHS, MULTIPLY THE QUANTITY CALCULATED FROM THE TABLE BY 0.9.

NOTES: 1. TO OBTAIN THE MAXIMUM QUANTITY OF WATER FOR PIPE WITH 20 FT. NOMINAL LENGTHS, MULTIPLY THE QUANTITY CALCULATED FROM THE TABLE BY 0.9.

Table: CONSTRUCTION SET NOVEMBER 2016. Includes columns for DSGN, DR, CHK, APVD, NO., DATE, REVISION, BY, APVD.

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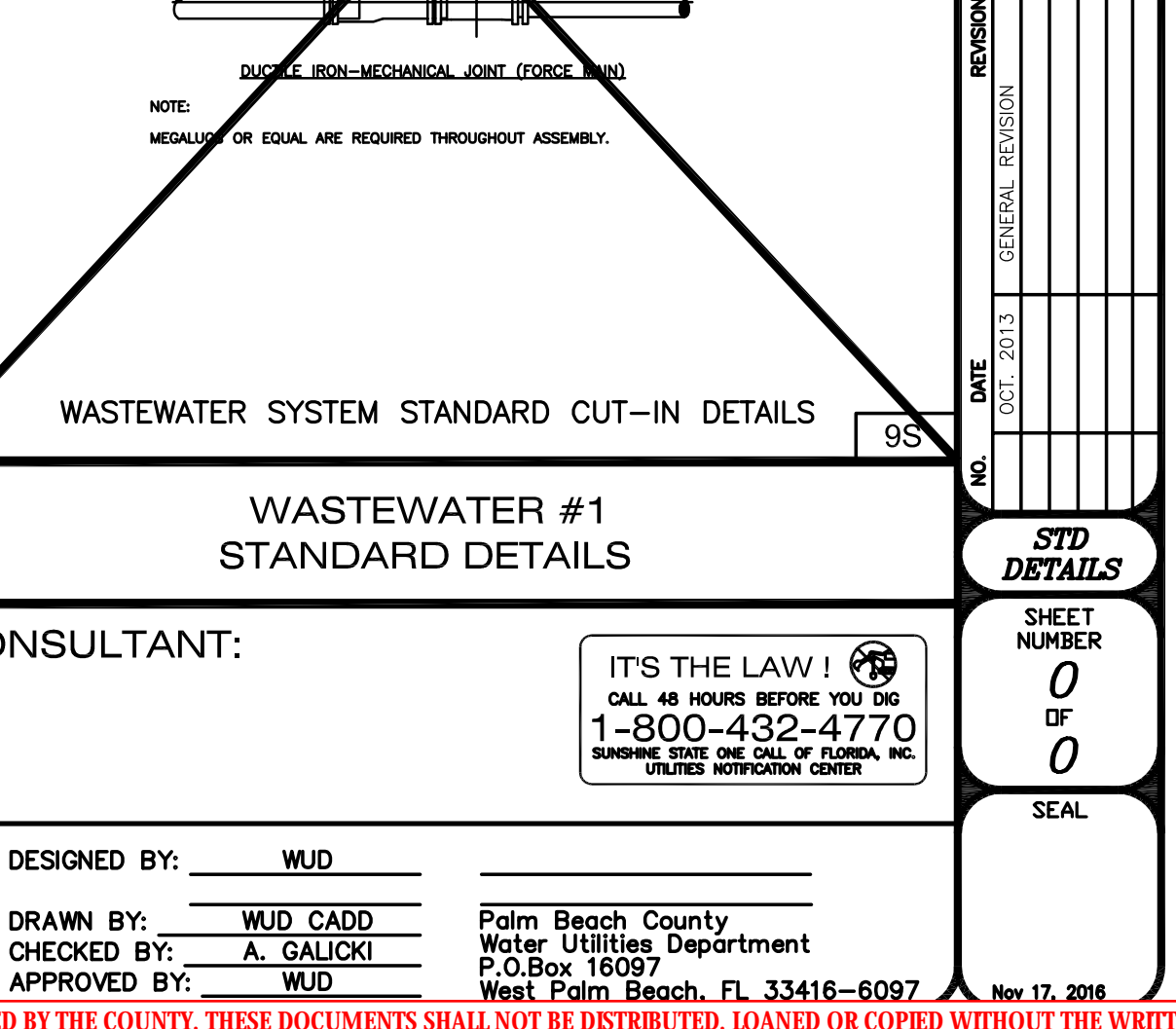
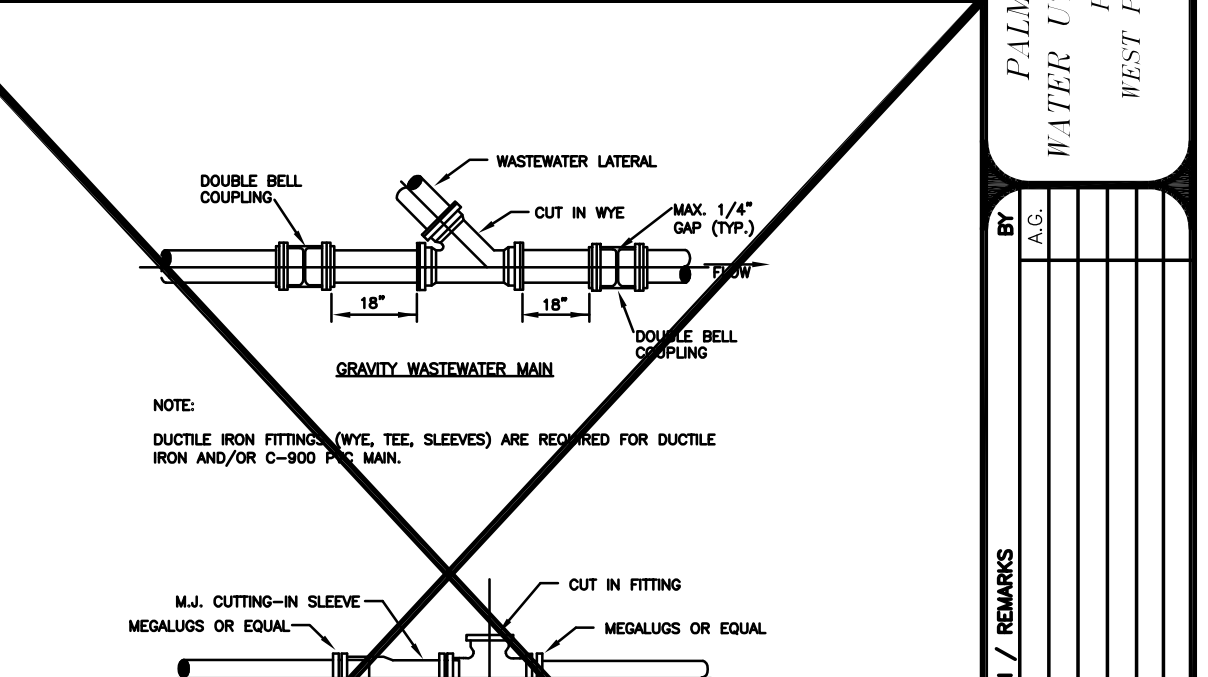
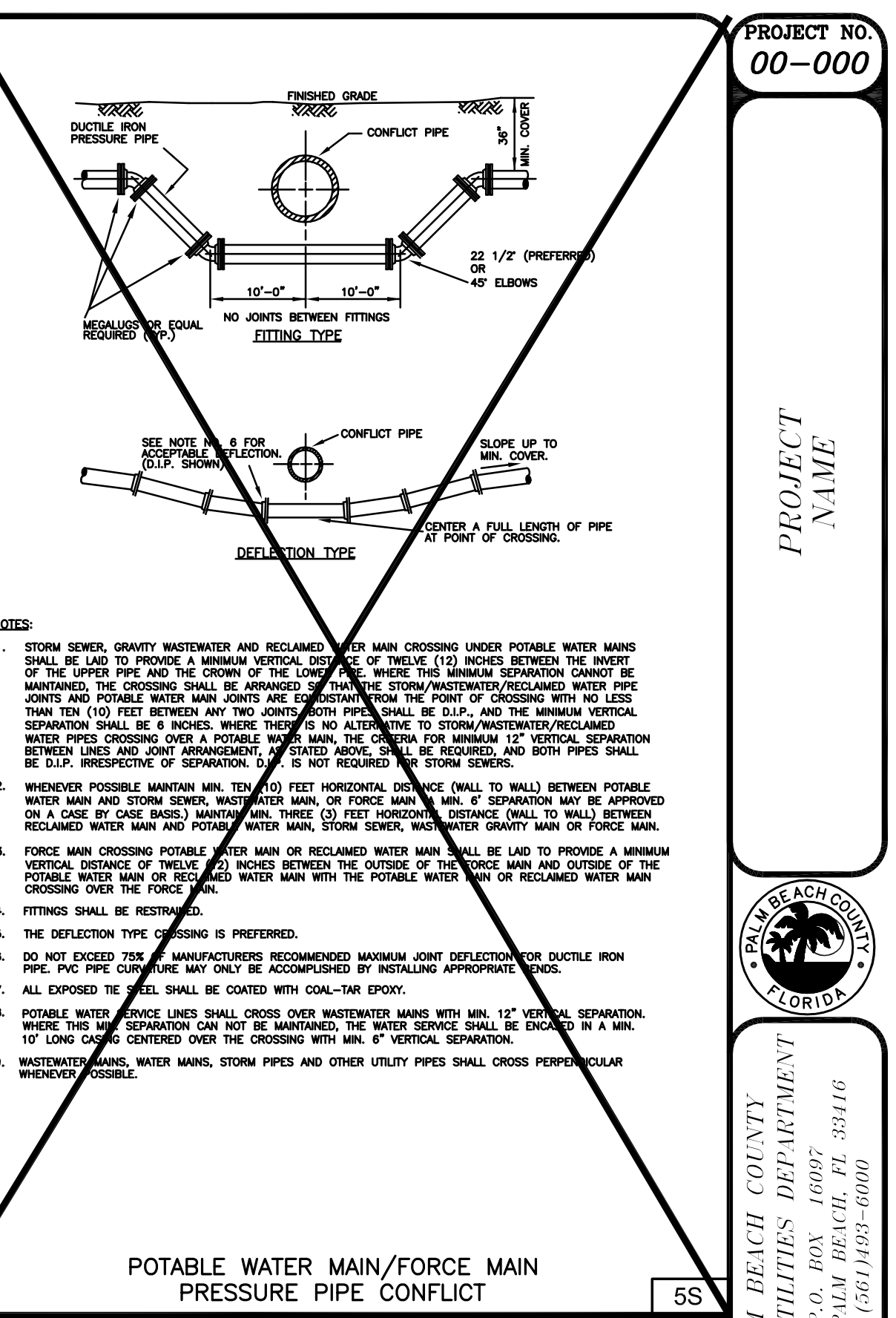
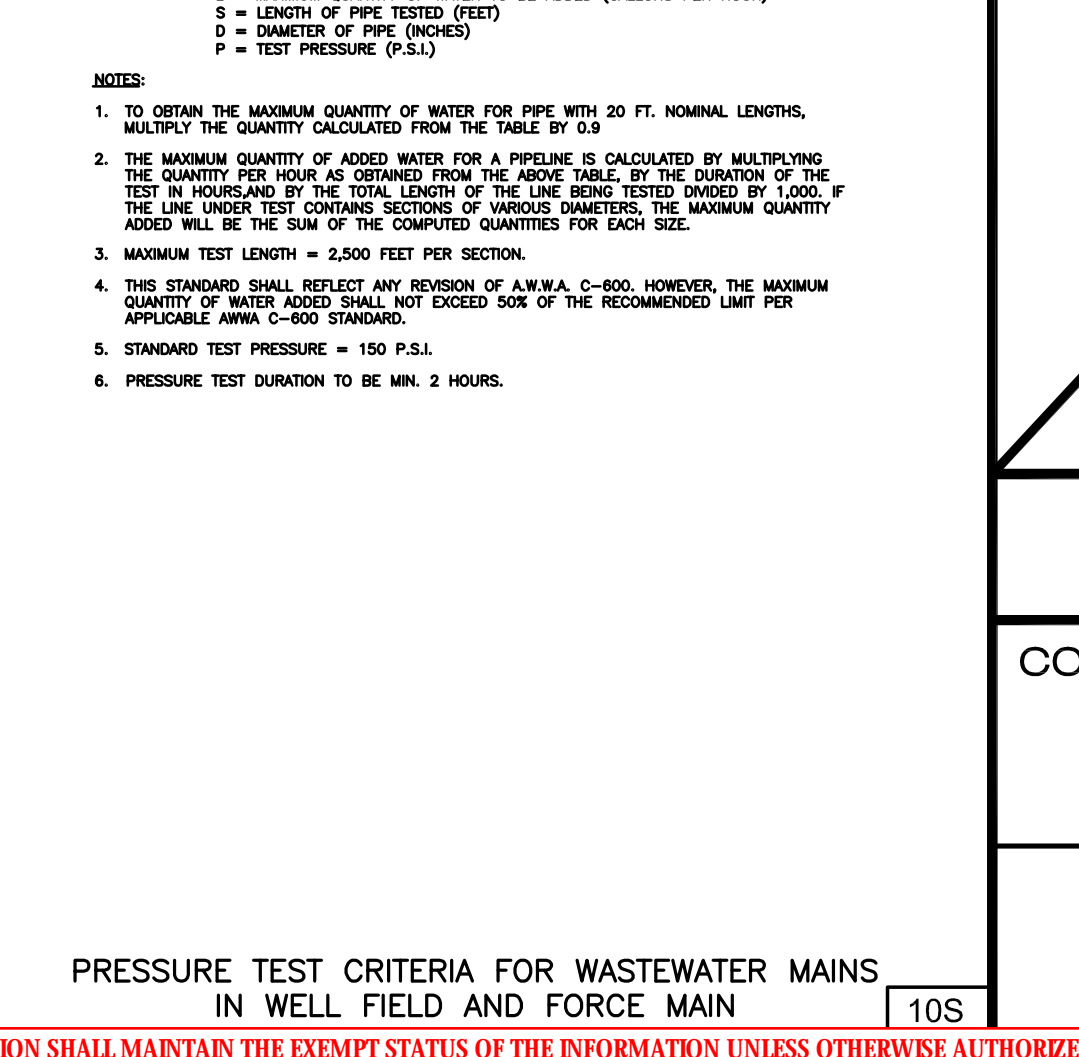
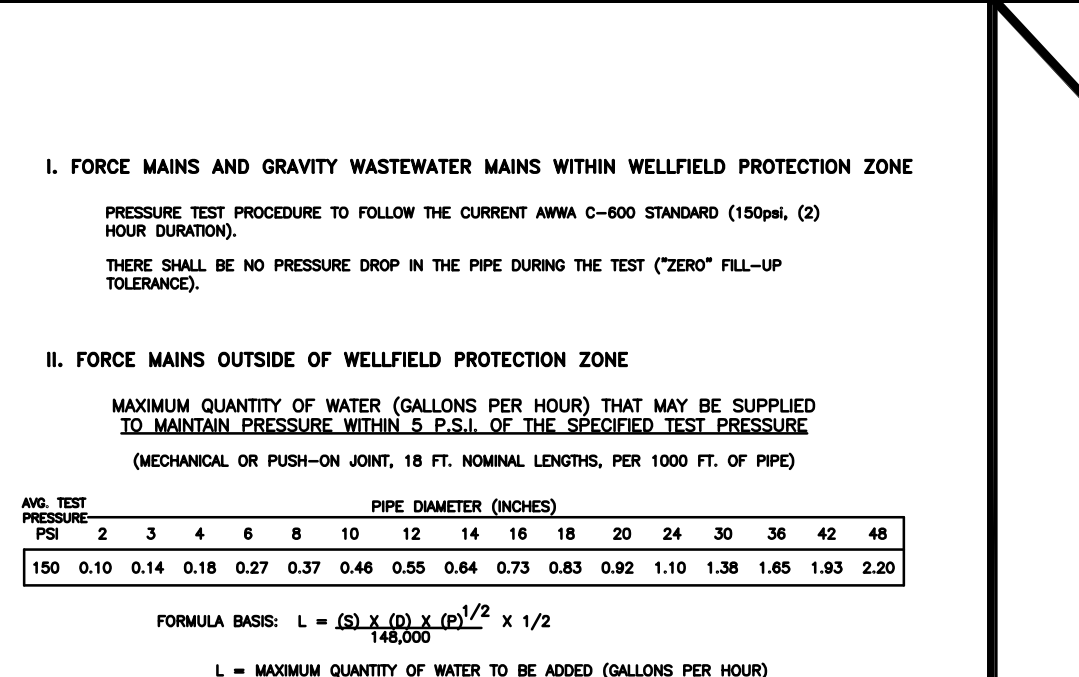
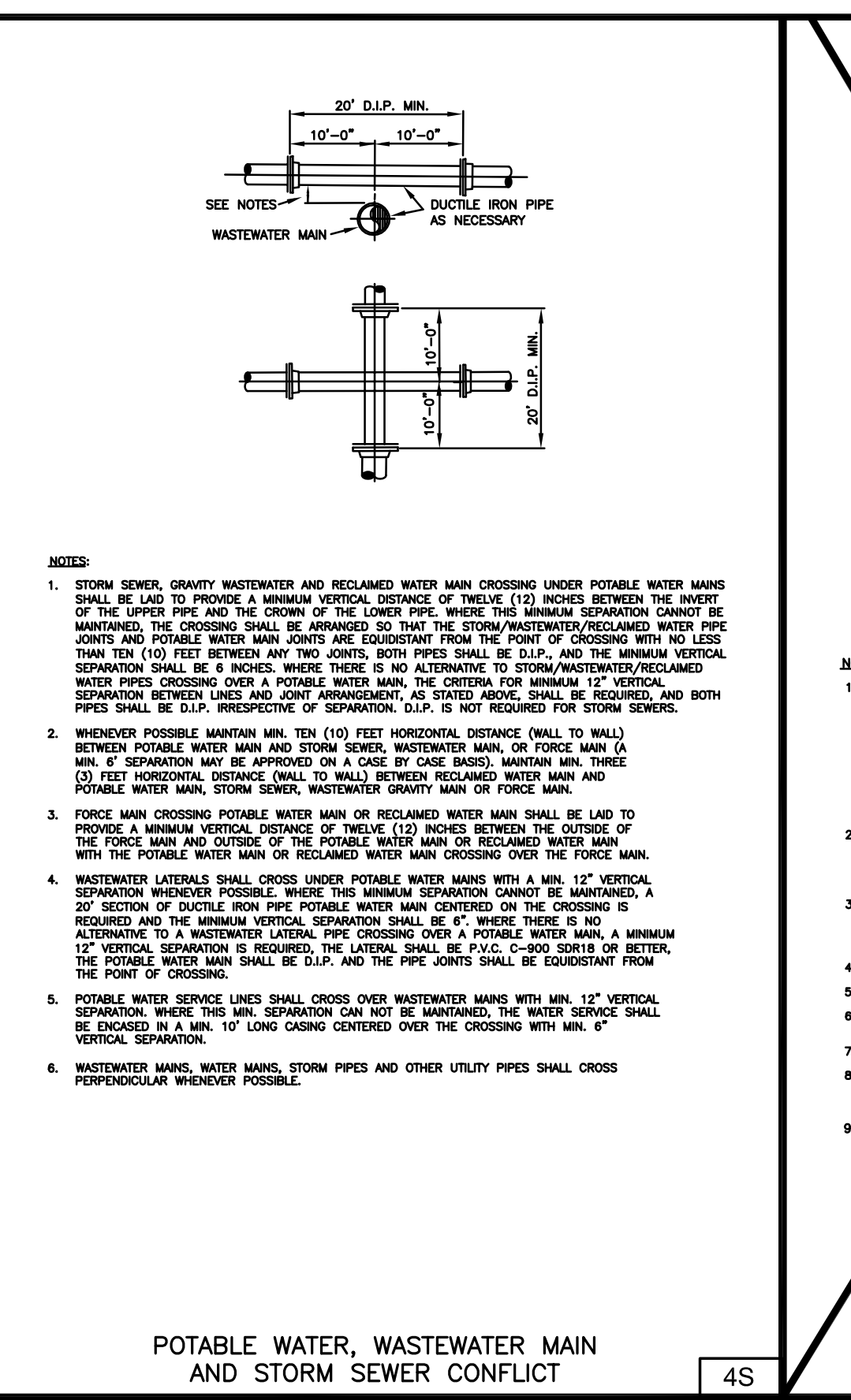
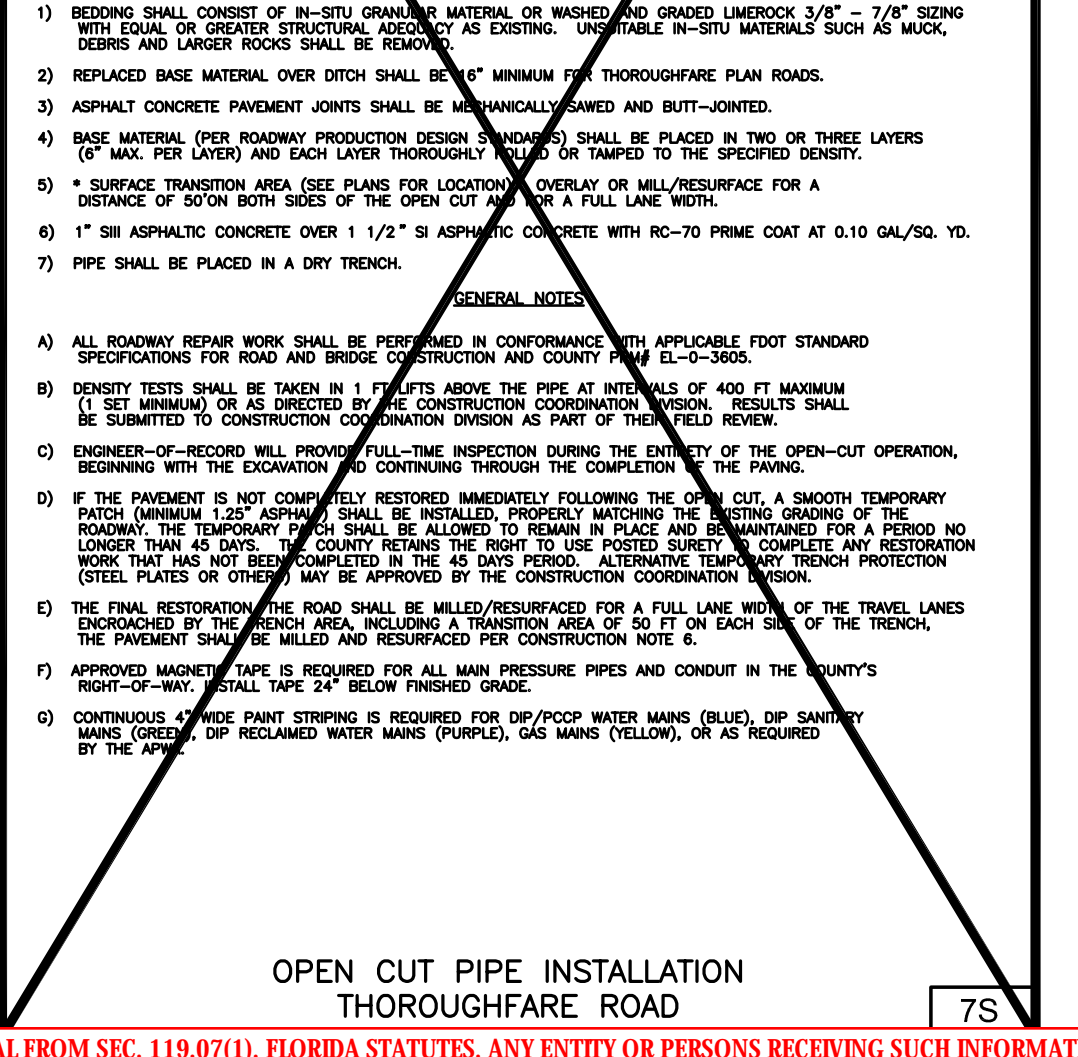
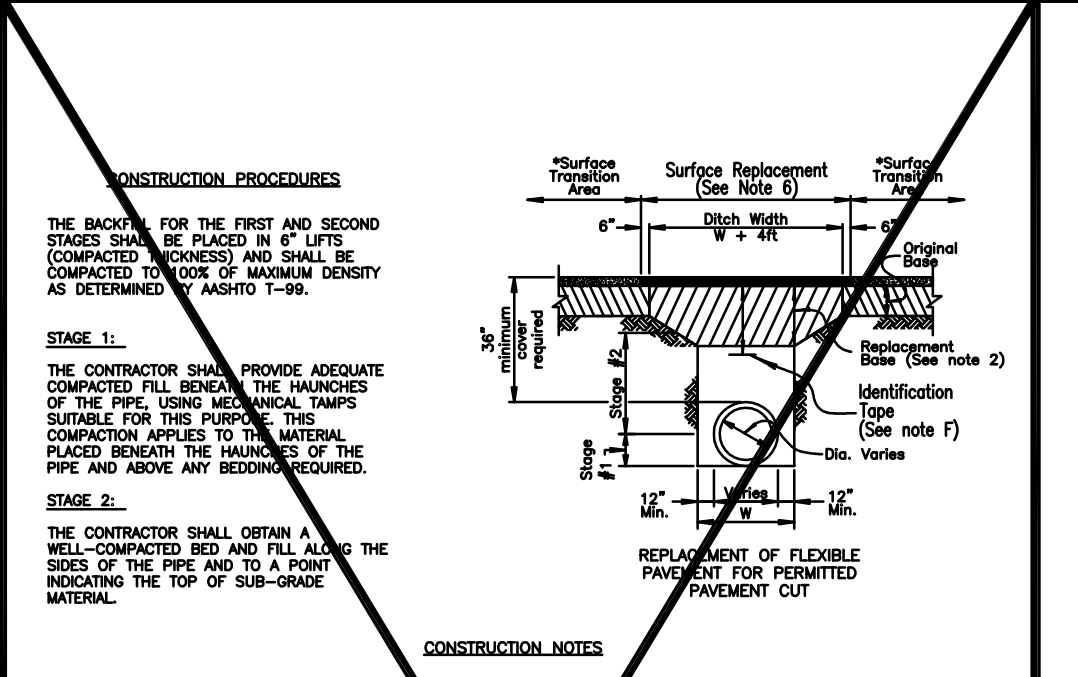
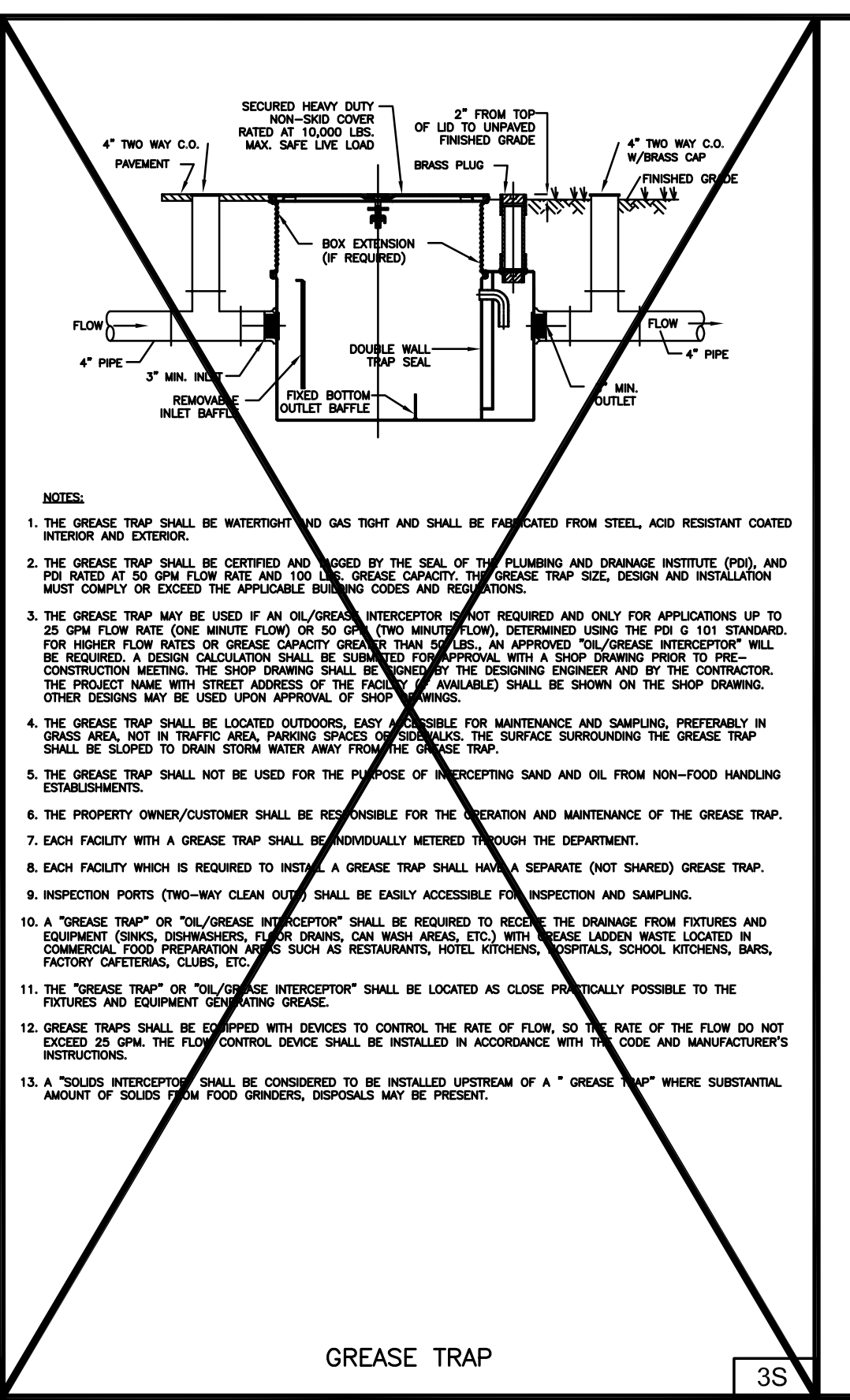
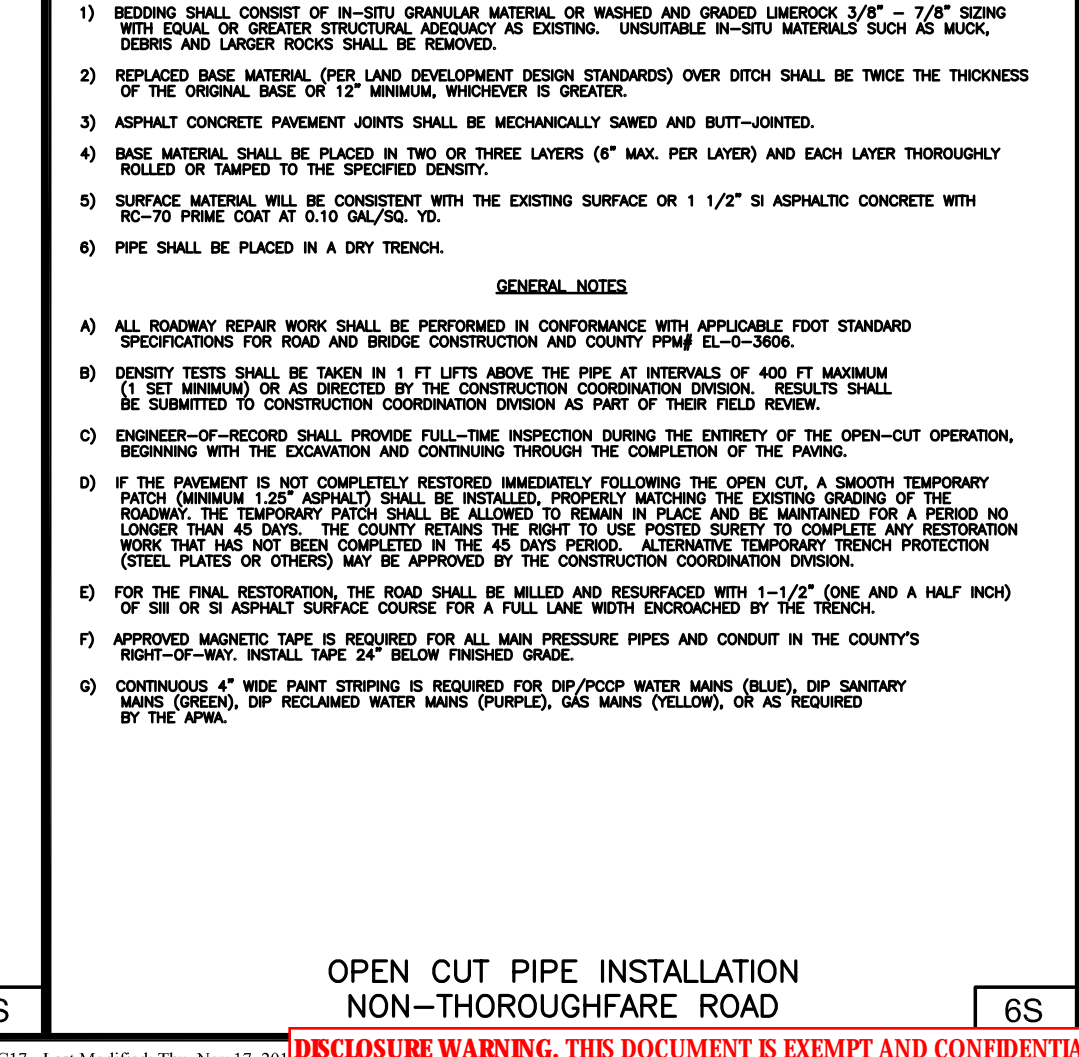
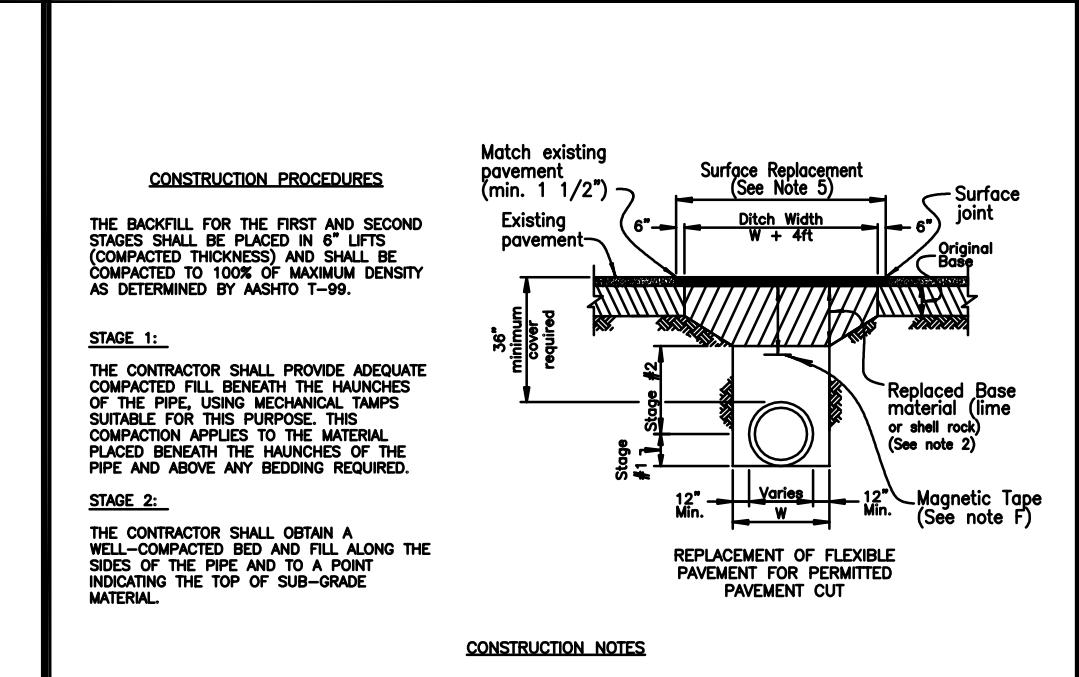
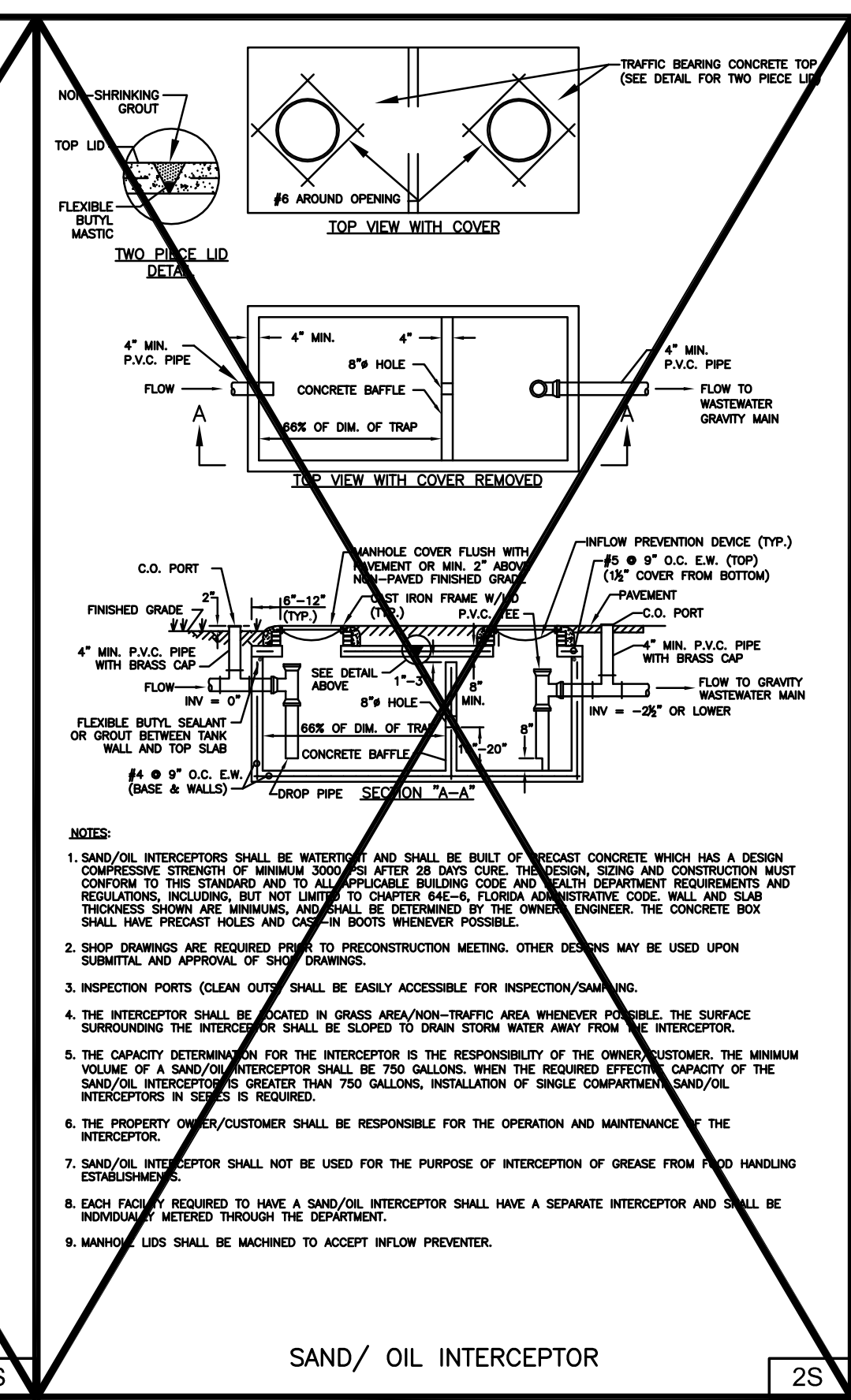
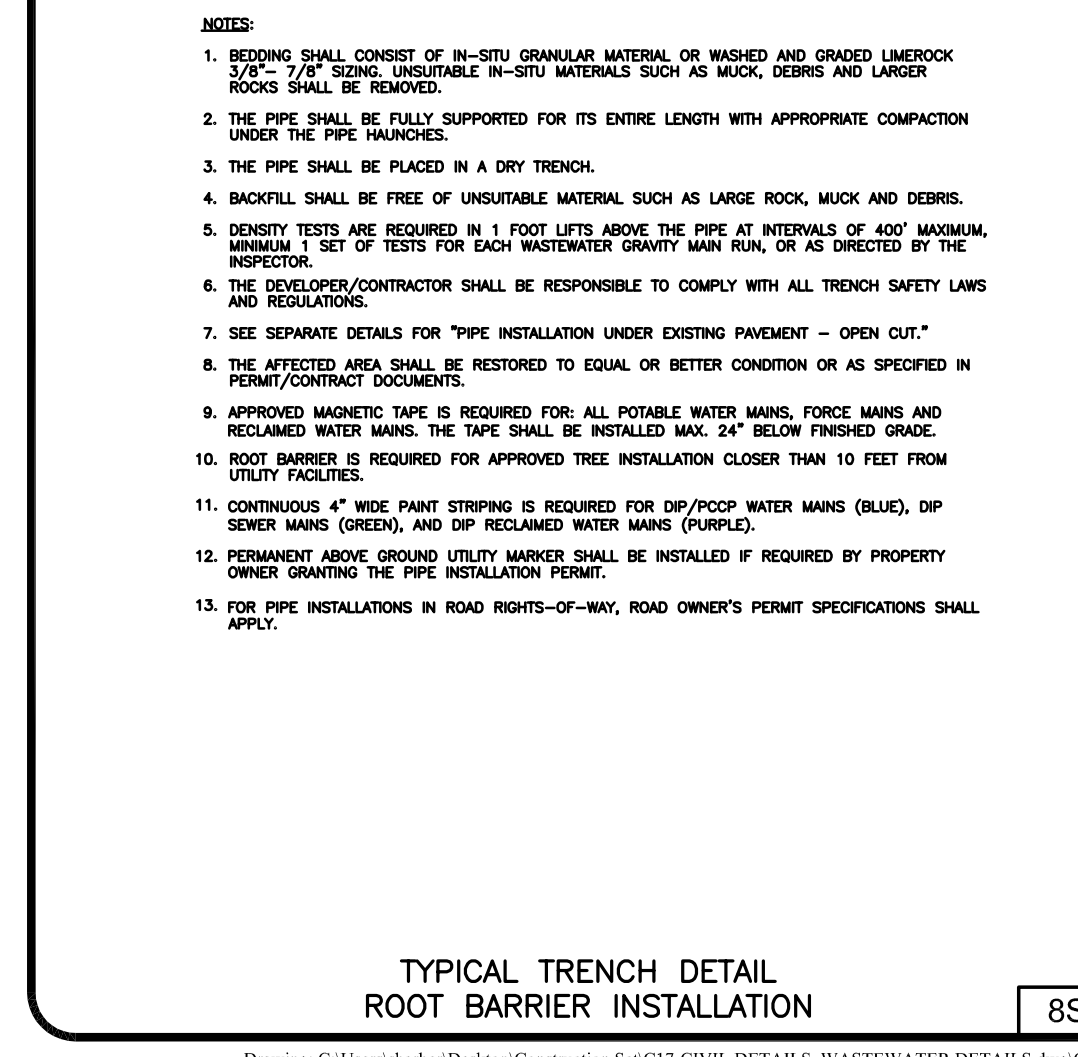
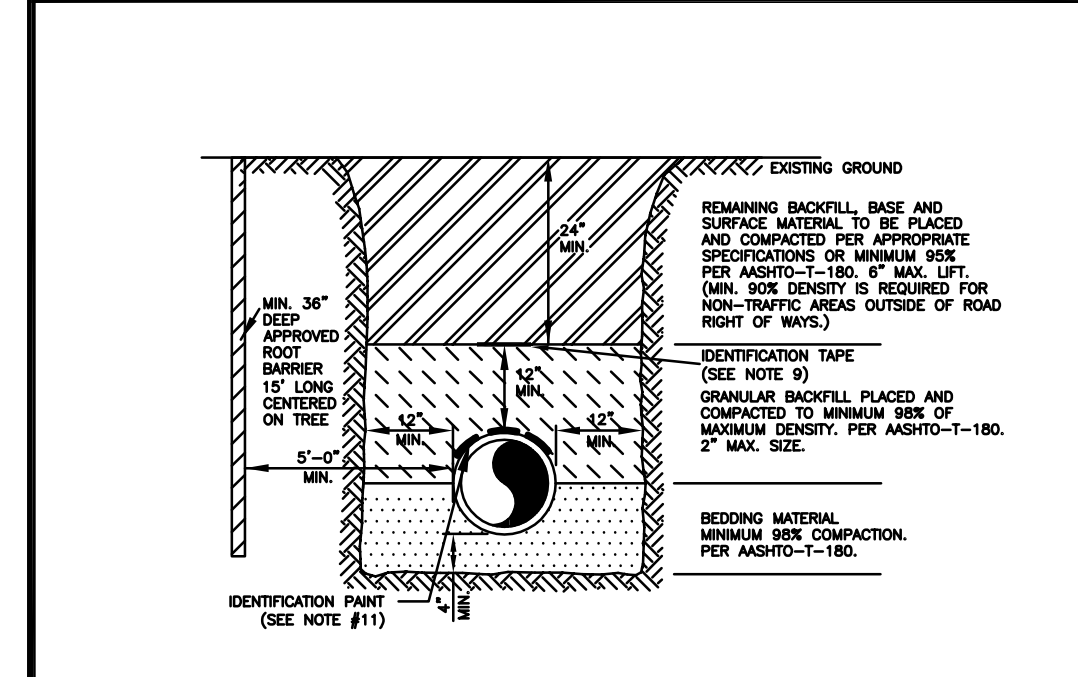
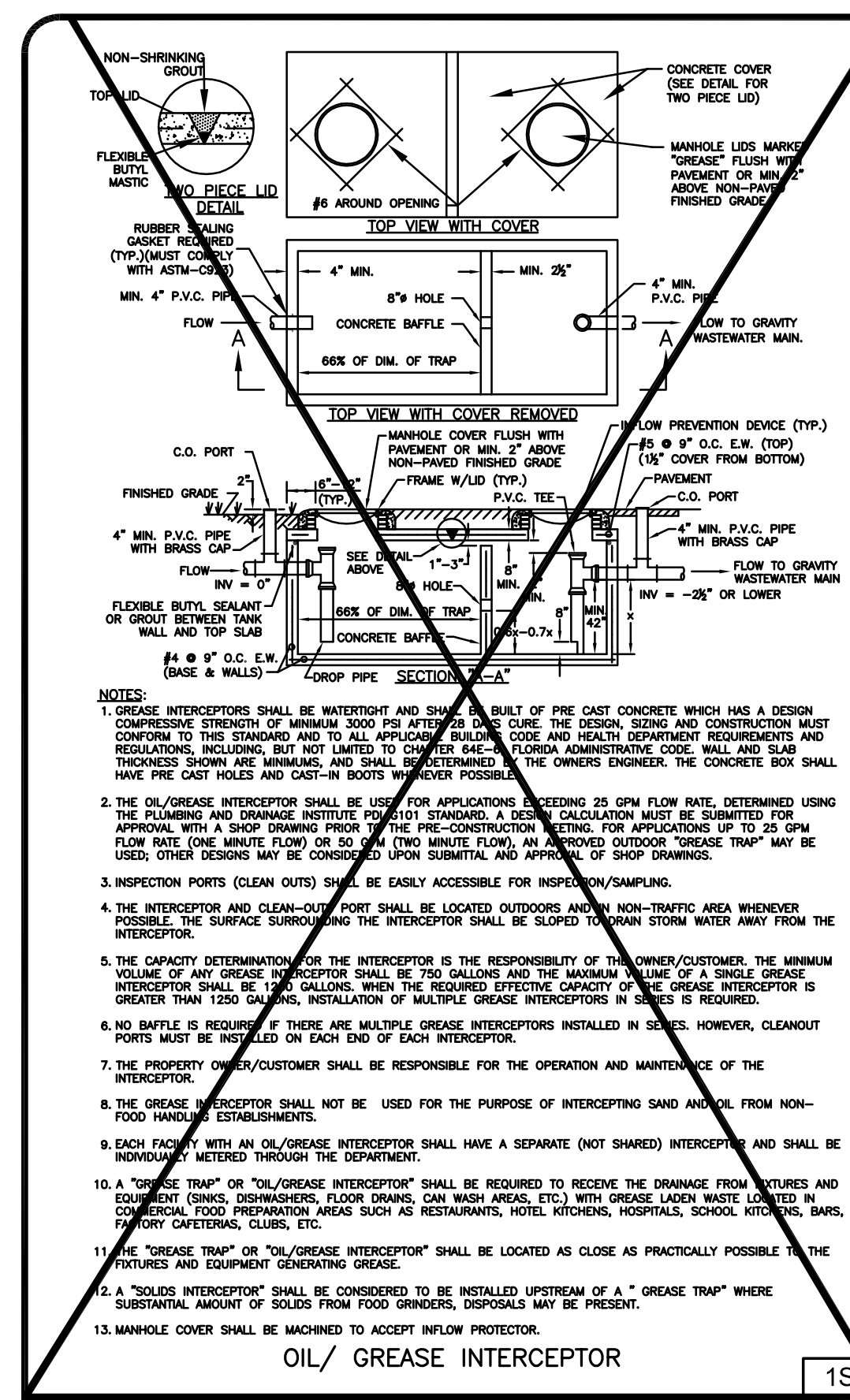
CH2MHILL 3001 PGA BOULEVARD, SUITE 300 PALM BEACH GARDENS, FLORIDA 33410

DESIGNED BY: WUD CHECKED BY: A. GALICKI APPROVED BY: WUD

CML POTABLE WATER STANDARD DETAILS SHEET 22 OF 51 DWG C16 DATE NOVEMBER 2016 PROJ 409534

C16-CIVIL-DETAILS-WATER-DETAILS.dwg Plotted: November 17, 2016

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DSGN	PBC UTILITY DEPT	NO.	DATE	REVISION	BY	APVD
DR	PBC UTILITY DEPT					
CHK	PBC UTILITY DEPT					
APVD	PBC UTILITY DEPT					

NO.	DATE	REVISION	BY	APVD

NO.	DATE	REVISION	BY	APVD

NO.	DATE	REVISION	BY	APVD

NO.	DATE	REVISION	BY	APVD

CONSTRUCTION SET
NOVEMBER 2016

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PALM BEACH GARDENS, FLORIDA 33410
EB 000072 AA C000656 LC 26000188

OKEEHEELEE PARK SOUTH
BOAT LAUNCH AND RESTROOM FACILITY
PALM BEACH COUNTY, FLORIDA

CML
WASTE WATER
STANDARD DETAILS

PROJECT NO. 00-000

PROJECT NAME

PALM BEACH COUNTY
WATER UTILITIES DEPARTMENT
WEST PALM BEACH, FL 33416
(561) 938-6000

DATE: OCT. 2013

NO. 1

REVISION / REMARKS

GENERAL REVISION

NOV 17, 2016

DESIGNED BY: WUD

DRAWN BY: WUD CADD

CHECKED BY: A. GALICKI

APPROVED BY: WUD

Palm Beach County
Water Utilities Department
P.O. Box 16097
West Palm Beach, FL 33416-6097

SHEET 23 OF 51

DWG C17

DATE NOVEMBER 2016

PROJ 409534

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PROJECT NO. 00-000

PROJECT NAME



PALM BEACH COUNTY WATER UTILITIES DEPARTMENT WEST PALM BEACH, FL 33416 (561) 938-6000

Table with columns: NO., DATE, GENERAL REVISION, REVISION / REMARKS

STD DETAILS SHEET NUMBER 0 OF 0 SEAL

DESIGNED BY: WUD DRAWN BY: WUD CADD CHECKED BY: A. GALICKI APPROVED BY: WUD

DATE: OCT-2013 CONSULTANT: WASTEWATER #2 STANDARD DETAILS

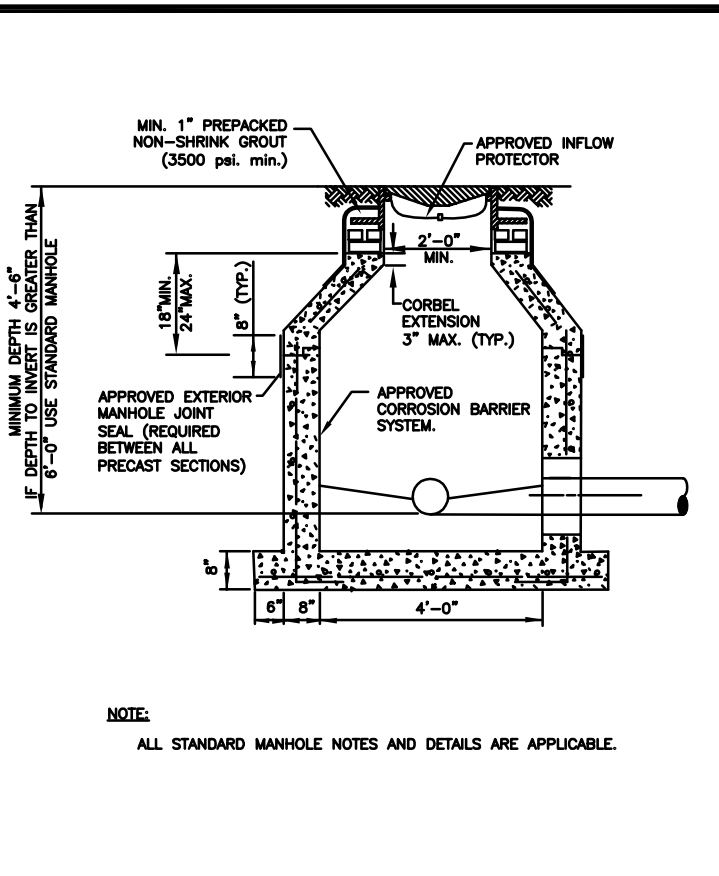
SHEET 24 OF 51 DWG C18 DATE NOVEMBER 2016 PROJ 409534



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- NOTES: 1. PRECAST CONCRETE TYPE II 4000 P.S.I. CALDAREOUS AGGREGATE REQUIRED... 2. INSTALL APPROVED JOINT SEALANT AT ALL RISER JOINTS WITH GROUT ON INSIDE AND OUTSIDE...

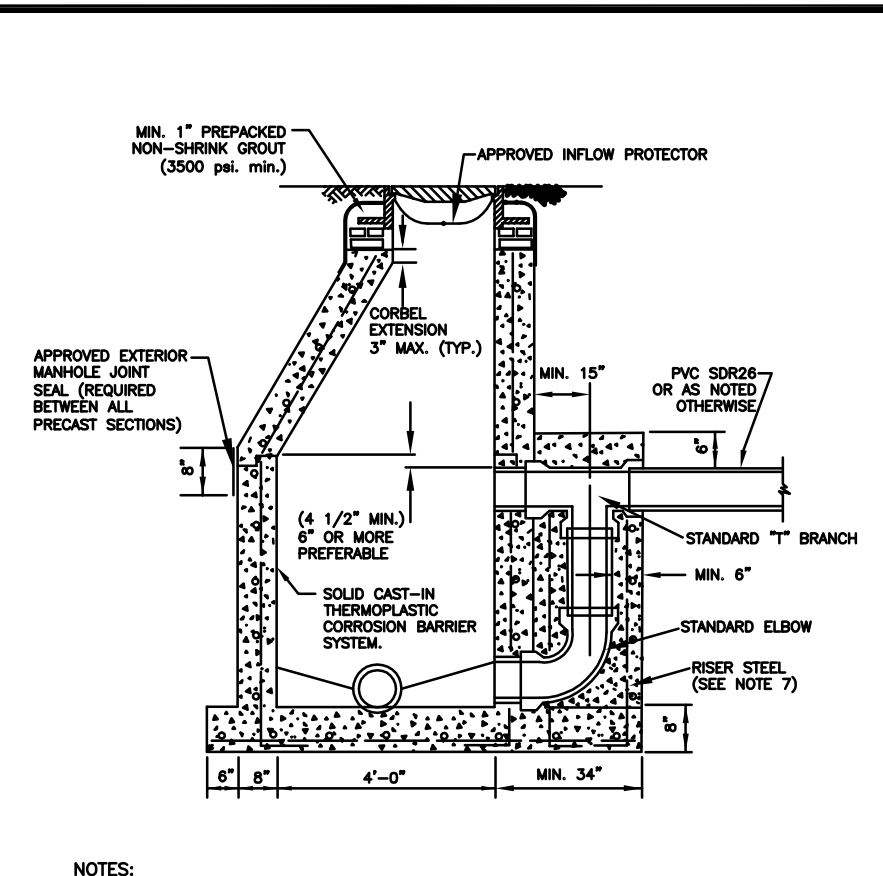
STANDARD MANHOLE 13S



ALL STANDARD MANHOLE NOTES AND DETAILS ARE APPLICABLE.

- NOTES: 1. ALL DETAILS AND SPECIFICATIONS FOR STANDARD MANHOLES ARE APPLICABLE EXCEPT FOR REFERENCES TO DROP ASSEMBLY AND CAST IN LIEERS...

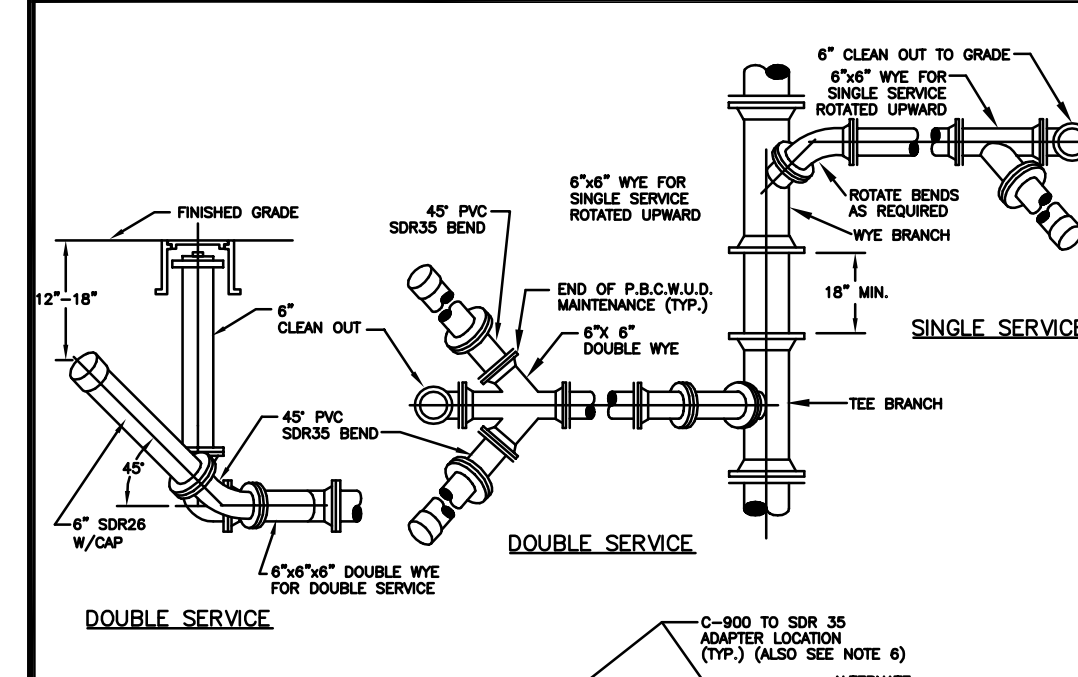
SHALLOW MANHOLE 14S



ALL STANDARD MANHOLE NOTES AND DETAILS ARE APPLICABLE.

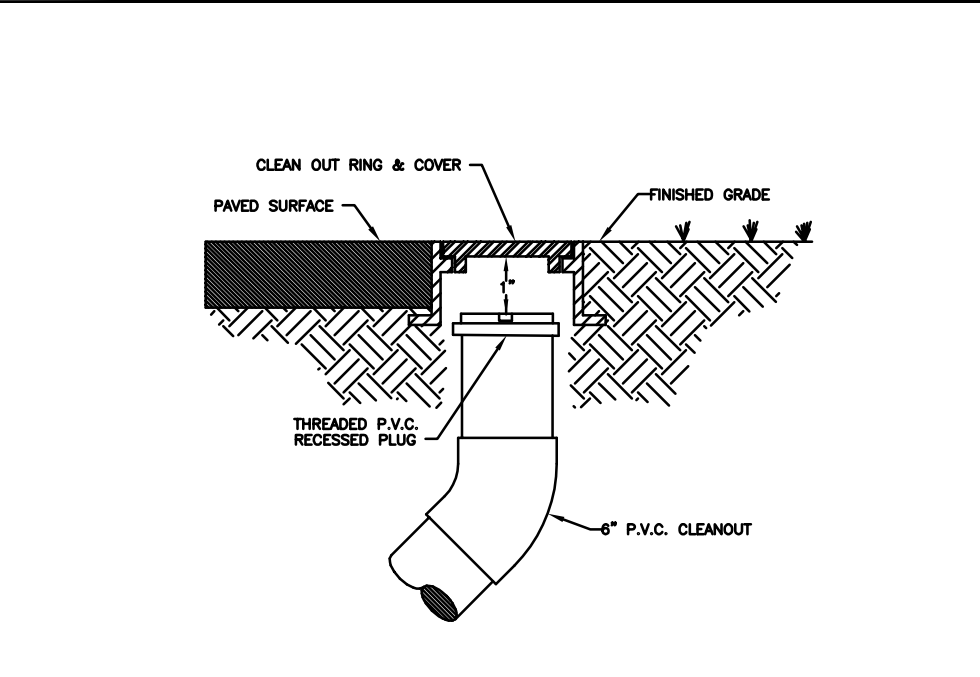
- NOTES: 1. ALL DETAILS AND SPECIFICATIONS FOR STANDARD MANHOLES ARE APPLICABLE EXCEPT FOR REFERENCES TO DROP ASSEMBLY AND CAST IN LIEERS...

DROP CONNECTION PRECAST MANHOLE 15S



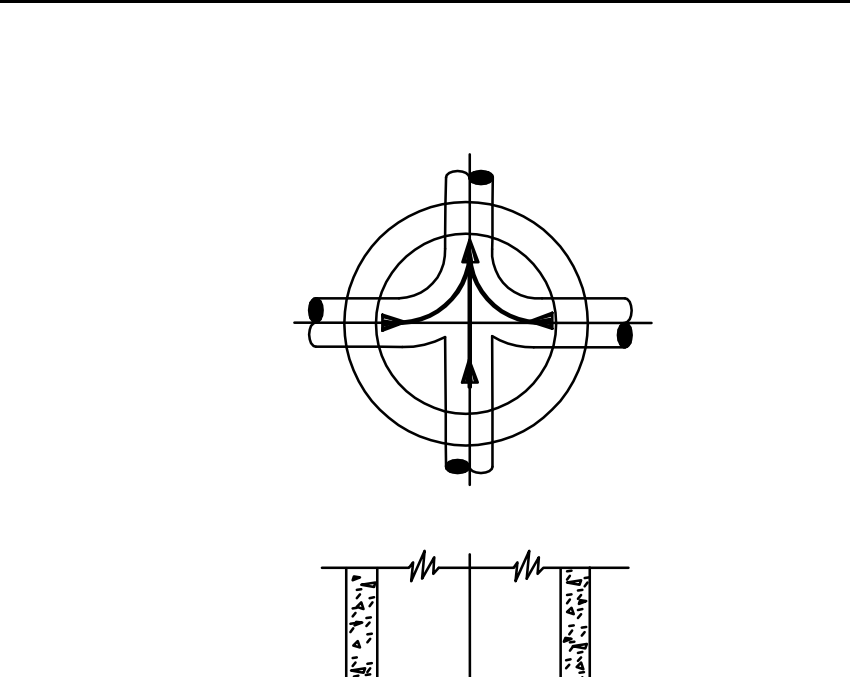
TYPICAL WASTEWATER SERVICE CONNECTION 12S

- NOTES: 1. MIN. 3" AND 5" MAX. DEPTH IS REQUIRED, UNLESS PLANS SHOW OTHERWISE, FOR SERVICE LATERAL WYE AT THE CLEAN OUT ENDING P.B.C.W.U.D. OWNERSHIP AND MAINTENANCE RESPONSIBILITY...



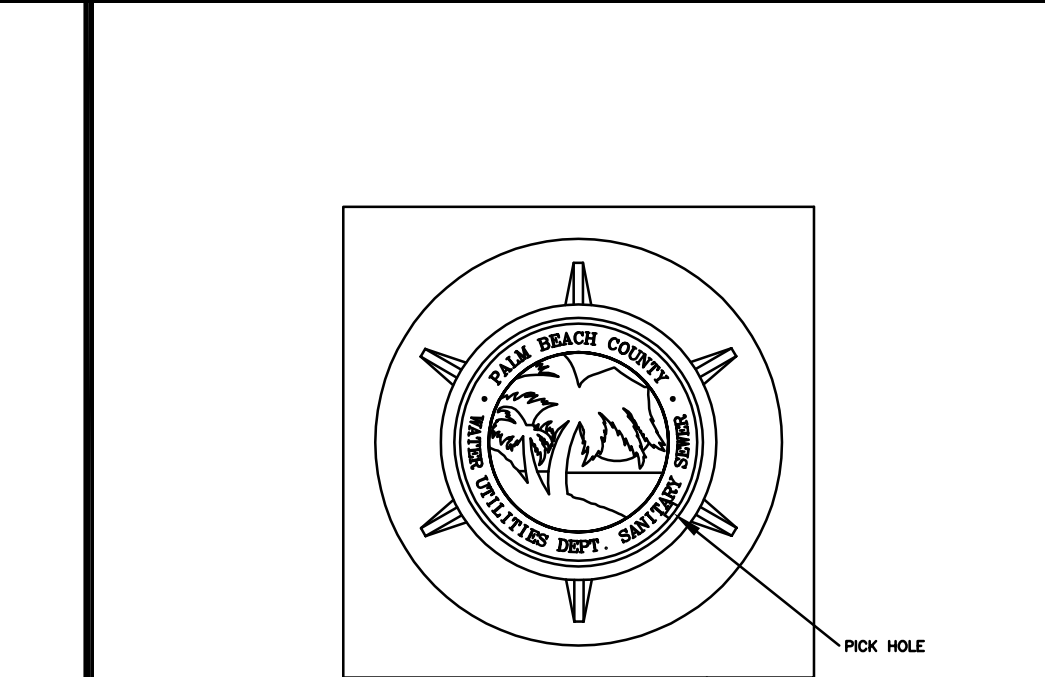
TYPICAL CLEANOUT INSTALLATION 11S

- NOTES: 1. CLEANOUTS TO BE LOCATED IN GRASS AREA WHENEVER POSSIBLE, MIN. 3" FROM EDGE OF PAVEMENT, BACK OF CURB, EDGE OF DRIVEWAY, LIGHT POLES, TRANSFORMERS, OR POWER POLES...



INVERT FLOW CHANNELS 16S

- NOTES: 1. PROPERLY SHAPED INVERT CHANNELS AND SPILLWAYS SHALL BE CONSTRUCTED BETWEEN PIPES WITH DIFFERENT INVERT ELEVATIONS TO PROVIDE FOR SMOOTH FLOW...



GRAVITY SEWER MANHOLE FRAME & COVER 17S

- NOTES: 1. COLLAR IS REQUIRED ONLY WHEN MANHOLE IS OUT OF PAVEMENT. 2. STANDARD FRAME AND COVER SIZE SHALL BE SEVEN INCHES (7). A 4" FRAME MAY ONLY BE USED WITH PROOF APPROVAL...

Table with columns: DSGN, DR, CHK, APVD, NO., DATE, REVISION, BY, APVD

Table with columns: VERIFY SCALE, BAR IS ONE INCH ON ORIGINAL DRAWING, 0 1" IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

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OKEEHOLEE PARK SOUTH BOAT LAUNCH AND RESTROOM FACILITY PALM BEACH COUNTY, FLORIDA

CML WASTE WATER STANDARD DETAILS SHEET 24 OF 51 DWG C18 DATE NOVEMBER 2016 PROJ 409534

Plotted: November 18, 2016 C18-CIVIL DETAILS-WASTEWATER DETAILS.dwg

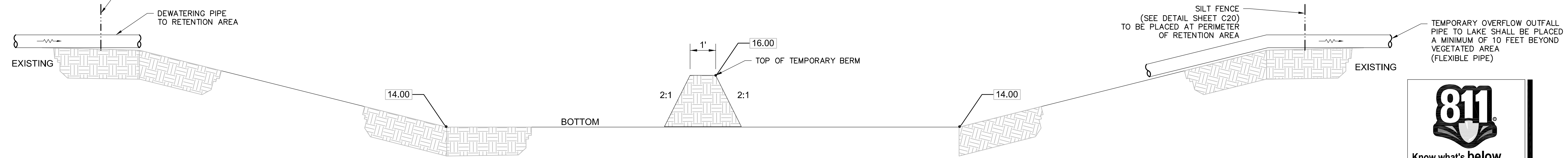
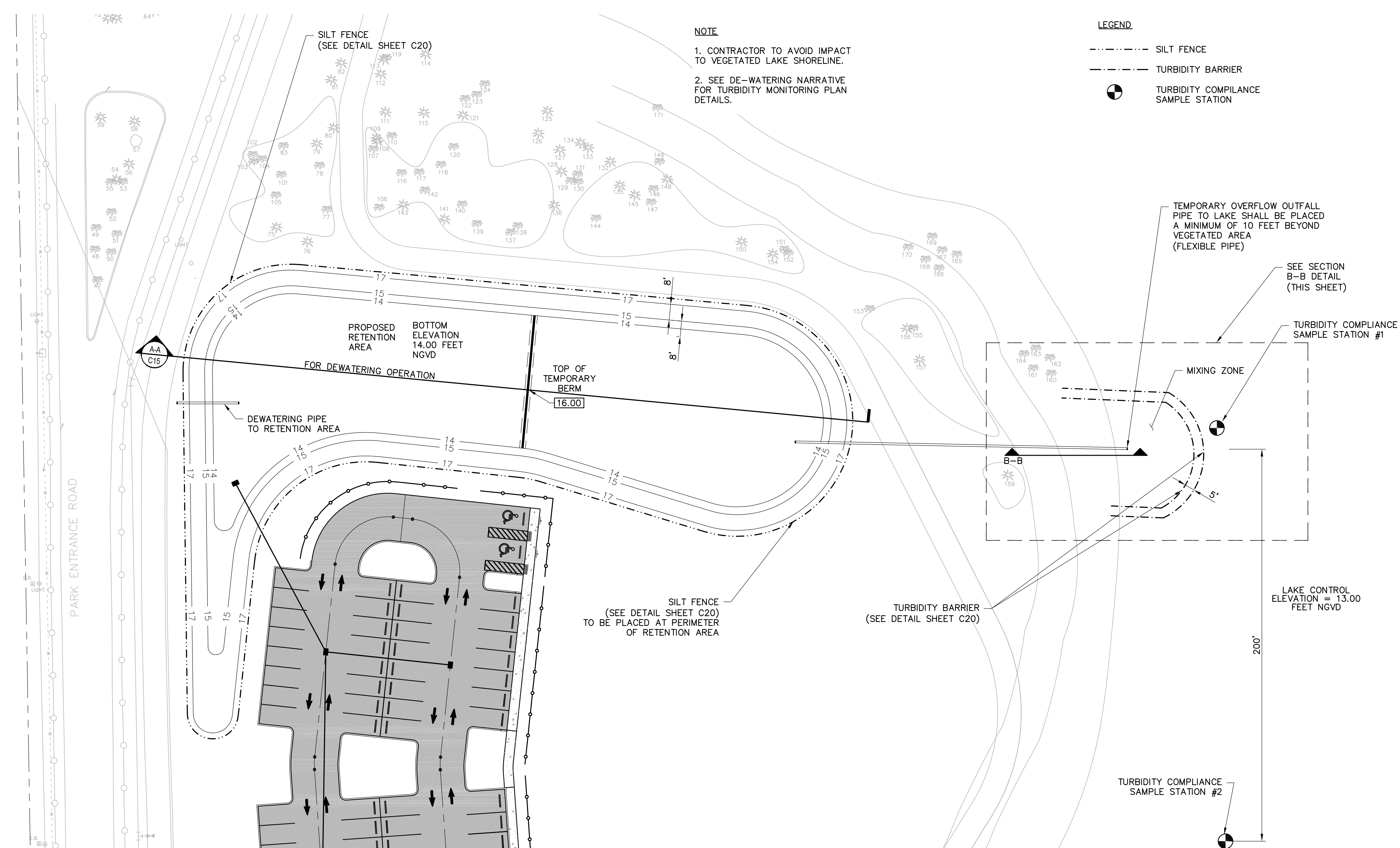
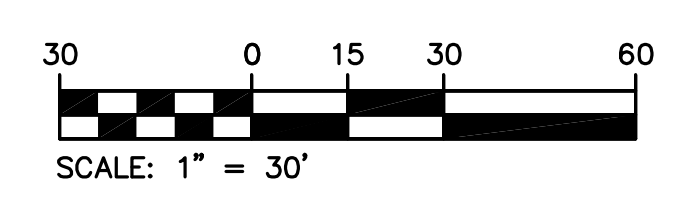
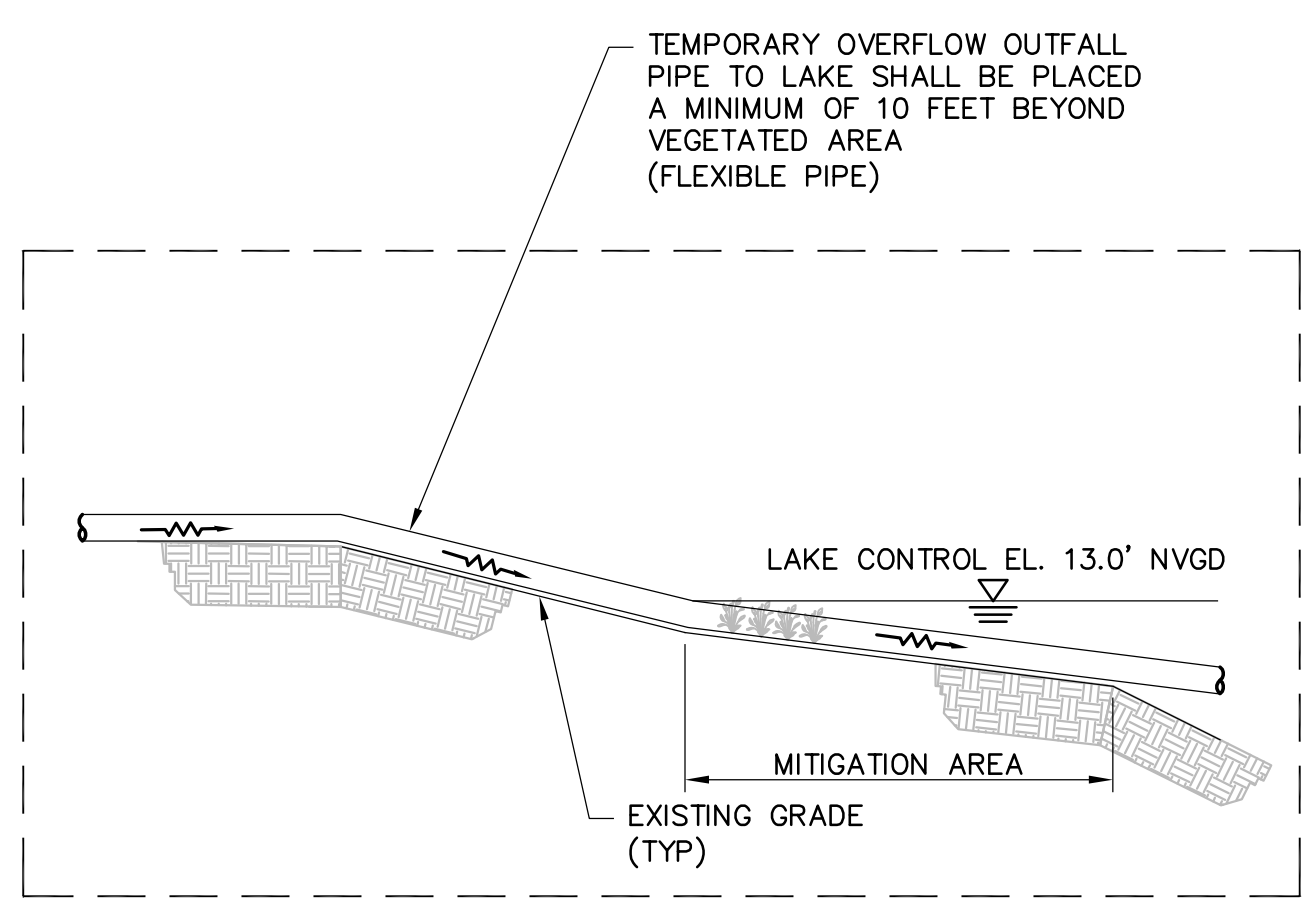
CONSTRUCTION SET NOVEMBER 2016

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NOTE
 1. CONTRACTOR TO AVOID IMPACT TO VEGETATED LAKE SHORELINE.
 2. SEE DE-WATERING NARRATIVE FOR TURBIDITY MONITORING PLAN DETAILS.

LEGEND
 - - - - - SILT FENCE
 - - - - - TURBIDITY BARRIER
 ● TURBIDITY COMPLIANCE SAMPLE STATION



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**CONSTRUCTION SET
 NOVEMBER 2016**

DSGN	J. DEBRINCAT					
DR	D. ALMENDINGER					
CHK	M. LANDRUM					
APVD	J. DEBRINCAT	NO.	DATE	REVISION	BY	APVD

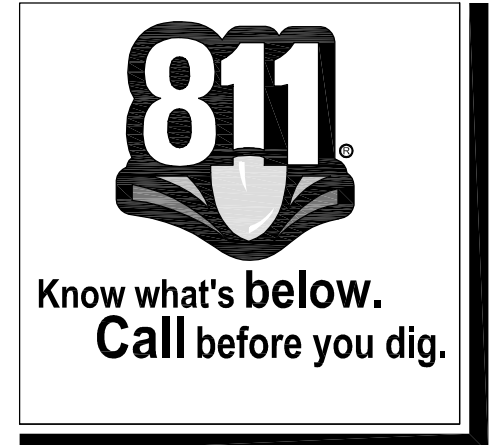
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OKEEHEELEE PARK SOUTH
 BOAT LAUNCH AND RESTROOM FACILITY
 PALM BEACH COUNTY, FLORIDA

CML
DEWATERING AND MONITORING PLAN

SHEET	25 OF 51
DWG	C19
DATE	NOVEMBER 2016
PROJ	409534



Plotted: November 18, 2016

C19-DEWATERING PLAN.dwg

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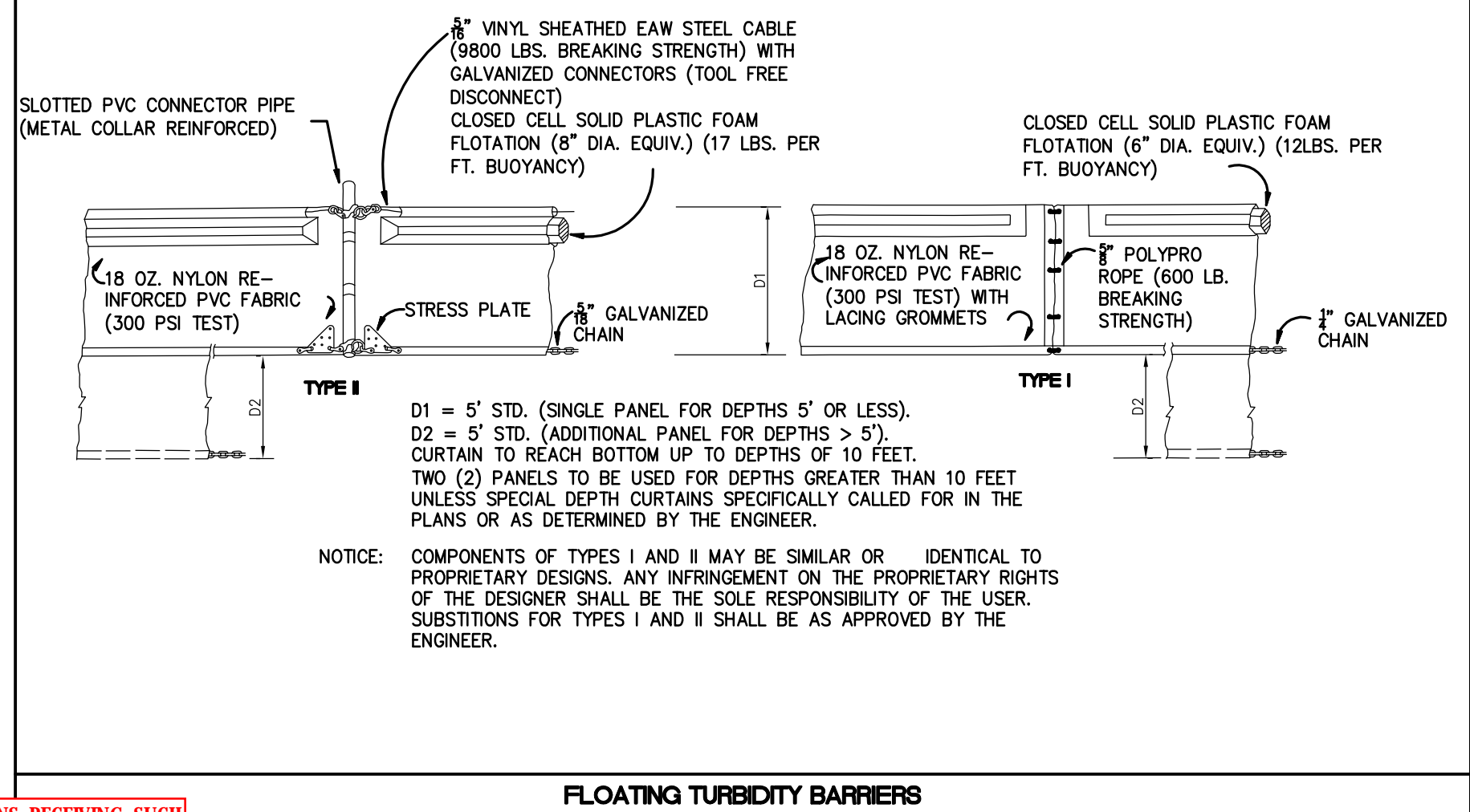
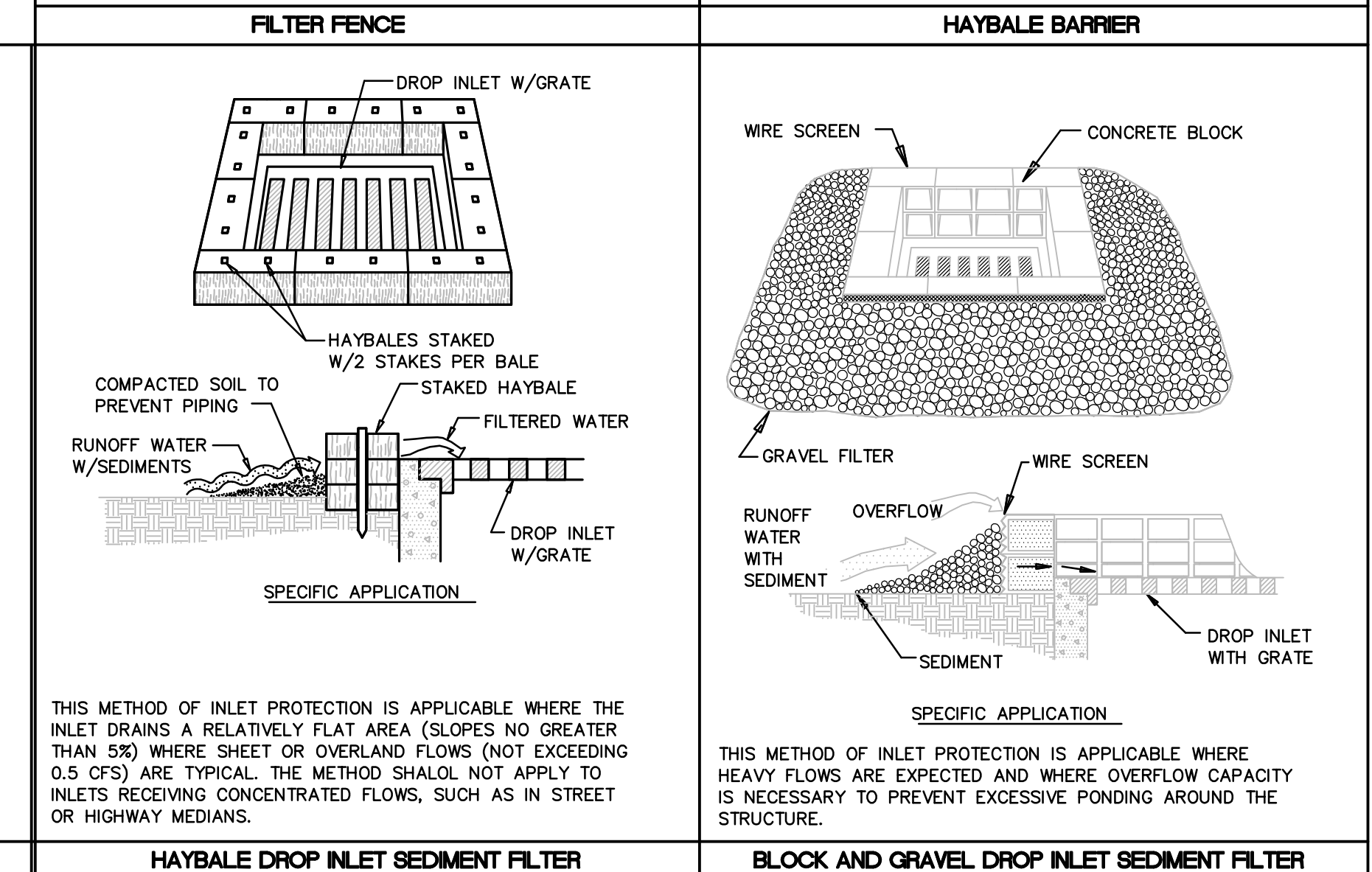
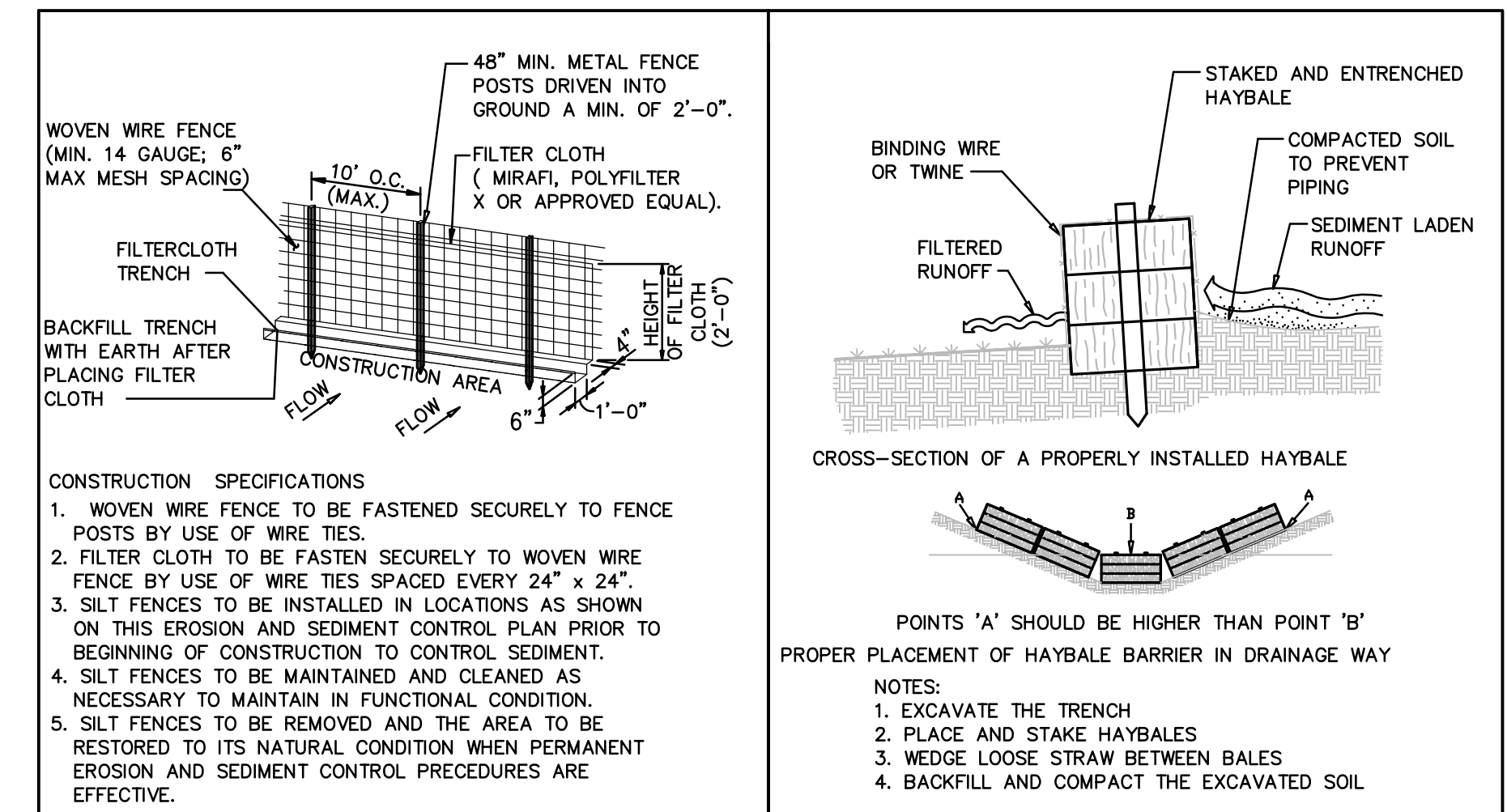
EROSION AND SEDIMENT CONTROL NOTES

- THE CONTRACTOR IS RESPONSIBLE FOR REMOVING SILT FROM SITE IF NOT REUSABLE ON-SITE AND ASSURING PLAN ALIGNMENT AND GRADE IN ALL DITCHES AND SWALES AT COMPLETION OF CONSTRUCTION.
- THE SITE CONTRACTOR IS RESPONSIBLE FOR REMOVING THE TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES AFTER COMPLETION OF CONSTRUCTION AND ONLY WHEN AREAS HAVE BEEN STABILIZED.
- ADDITIONAL PROTECTION - ON-SITE PROTECTION MUST BE PROVIDED THAT WILL NOT PERMIT SILT TO LEAVE THE PROJECT CONFINES DUE TO UNFORSEEN CONDITIONS OR ACCIDENTS.
- CONTRACTOR SHALL INSURE THAT ALL DRAINAGE STRUCTURES, PIPES, ETC., ARE CLEANED OUT AND WORKING PROPERLY AT TIME OF ACCEPTANCE.
- WIRE MESH SHALL BE LAID OVER THE TOP DROP INLET SO THAT THE WIRE EXTENDS A MINIMUM OF 1 FOOT BEYOND EACH SIDE OF THE INLET STRUCTURE. HARDWARE CLOTH OR COMPARABLE WIRE MESH WITH 1/2-INCH OPENINGS SHALL BE USED. IF MORE THAN ONE STRIP OF MESH IS NECESSARY, THE STRIPS SHALL BE OVERLAPPED.
- FDOT NO. 1 COARSE AGGREGATE SHALL BE PLACED OVER THE WIRE MESH AS INDICATED ON DETAIL. THE DEPTH OF STONE SHALL BE AT LEAST 12 INCHES OVER THE ENTIRE INLET OPENING. THE STONE SHALL EXTEND BEYOND THE INLET OPENING AT LEAST 18 INCHES ON ALL SIDES.
- IF THE STONE FILTER BECOMES CLOGGED WITH SEDIMENT SO THAT IT NO LONGER ADEQUATELY PERFORMS ITS FUNCTION, THE STONES MUST BE PULLED AWAY FROM THE INLET, CLEANED AND REPLACED.
- BALES SHALL BE EITHER WIRE-BOUND OR STRING-TIED WITH THE BINDINGS ORIENTED AROUND THE SIDES RATHER THAN OVER AND UNDER THE BALES.
- BALES SHALL BE PLACED LENGTHWISE IN SINGLE ROW SURROUNDING THE INLET, WITH THE ENDS OF ADJACENT BALES PRESSED TOGETHER.
- THE FILTER BARRIER SHALL BE ENTRENCHED AND BACKFILLED. A TRENCH SHALL BE EXCAVATED AROUND THE INLET AND WIDTH OF A BALE TO A MINIMUM DEPTH OF FOUR INCHES. AFTER THE BALES ARE STACKED, THE EXCAVATED SOIL SHALL BE BACKFILLED AND COMPACTED AGAINST THE FILTER BARRIER.
- EACH BALE SHALL BE SECURELY ANCHORED AND HELD IN PLACE BY AT LEAST TWO STAKES OR REBARS DRIVEN THROUGH THE BALE.
- LOOSE STRAW SHOULD BE WEDGED BETWEEN BALES TO PREVENT WATER FROM ENTERING BETWEEN BALES.
- HAYBALE BARRIERS SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL.
- CLOSE ATTENTION SHALL BE PAID TO THE REPAIR OF DAMAGED BALES, END RUNS AND UNDERCUTTING BENEATH BALES.
- NECESSARY REPAIRS TO BARRIERS OR REPLACEMENT OF BALES SHALL BE ACCOMPLISHED PROMPTLY.
- SEDIMENT DEPOSITS SHOULD BE REMOVED AFTER EACH RAINFALL. THEY MUST BE REMOVED WHEN THE LEVEL OF DEPOSITION REACHES APPROXIMATELY ONE-HALF THE HEIGHT OF THE BARRIER.
- ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE HAYBALE BARRIER IS NO LONGER REQUIRED SHALL BE DRESSED TO CONFORM TO THE EXISTING GRADE, PREPARED AND SEEDED.
- SILT FENCES AND FILTER BARRIERS SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY.
- SHOULD THE FABRIC ON A SILT FENCE OR FILTER BARRIER DECOMPOSE OR BECOME INEFFECTIVE PRIOR TO THE END OF THE EXPECTED USABLE LIFE AND THE BARRIER IS STILL NECESSARY, THE FABRIC SHALL BE REPLACED PROMPTLY.
- THE STRUCTURE SHALL BE INSPECTED AFTER EACH RAIN AND REPAIRS MADE AS NEEDED.
- SEDIMENT SHALL BE REMOVED AND THE TRAP RESTORED TO ITS ORIGINAL DIMENSIONS WHEN THE SEDIMENT HAS ACCUMULATED TO ONE-HALF THE DESIGN DEPTH OF THE TRAP. REMOVED SEDIMENT SHALL BE DEPOSITED IN A SUITABLE AREA AND IN SUCH A MANNER THAT IT WILL NOT ERODE.
- THE CONTRACTOR IS RESPONSIBLE FOR FOLLOWING THE BEST EROSION AND SEDIMENT CONTROL PRACTICES AS OUTLINED IN THE PLANS, SPECIFICATIONS AND APPLICABLE WATER MANAGEMENT DISTRICT PERMIT(S) FOR THIS PROJECT.
- FOR ADDITIONAL INFORMATION ON SEDIMENT AND EROSION CONTROL REFER TO "THE FLORIDA DEVELOPMENT MANUAL - A GUIDE TO SOUND LAND AND WATER MANAGEMENT" FROM THE STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION (FDER), CHAPTER 6.
- EROSION AND SEDIMENT CONTROL BARRIERS SHALL BE PLACED ADJACENT TO ALL WETLAND AREAS WHERE THERE IS POTENTIAL FOR DOWNSTREAM WATER QUALITY DEGRADATION.
- ALL DISTURBED AREAS SHALL BE GRASSED, FERTILIZED, MULCHED AND MAINTAINED UNTIL A PERMANENT VEGETATIVE COVER IS ESTABLISHED.
- SOD SHALL BE PLACED IN AREAS WHICH MAY REQUIRE IMMEDIATE EROSION PROTECTION TO ENSURE WATER QUALITY STANDARDS ARE MAINTAINED.
- ANY DISCHARGE FROM DEWATERING ACTIVITY SHALL BE FILTERED AND CONVEYED TO THE OUTFALL IN A MANNER WHICH PREVENTS EROSION AND TRANSPORTATION OF SUSPENDED SOLIDS TO THE RECEIVING OUTFALL.
- DEWATERING PUMPS SHALL NOT EXCEED THE CAPACITY OF THAT WHICH REQUIRES A CONSUMPTIVE USE PERMIT FROM THE APPLICABLE WATER MANAGEMENT DISTRICT.
- ALL DISTURBED AREAS TO BE STABILIZED THROUGH COMPACTION, SILT SCREENS, HAYBALES AND GRASSING. ALL FILL SLOPES 3:1 OR STEEPER TO RECEIVE STAKED SOLID SOD.
- ALL DEWATERING, EROSION, AND SEDIMENT CONTROL TO REMAIN IN PLACE AFTER COMPLETION OF CONSTRUCTION AND BE REMOVED ONLY WHEN AREAS HAVE BEEN STABILIZED.
- THIS PLAN INDICATES THE MINIMUM EROSION AND SEDIMENT CONTROL MEASURES REQUIRED FOR THIS PROJECT. THE CONTRACTOR IS RESPONSIBLE FOR MEETING ALL APPLICABLE RULES, REGULATIONS AND WATER QUALITY GUIDELINES AND MAY NEED TO INSTALL ADDITIONAL CONTROLS.
- ALL EXCAVATIONS AND EARTHWORK SHALL BE DONE IN A MANNER TO MINIMIZE WATER TURBIDITY AND POLLUTION. DISCHARGE SHALL BE CONTROLLED AND REROUTED THROUGH HAY FILTERS, SILTATION DIAPERS AND SUMPS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PREVENTION, CORRECTION, CONTROL AND ABATEMENT OF EROSION AND WATER POLLUTION IN ACCORDANCE WITH CHAPTER 62-302, FLORIDA ADMINISTRATIVE CODE.
- THE CONTRACTOR IS RESPONSIBLE FOR THE REMOVAL OF ANY SEDIMENT THAT LEAVES THE SITE AND CHANGES ANY DOWNSTREAM CONDITIONS BY RAISING CHANNEL BOTTOMS AND/OR CLOGGING OUTFALL CULVERTS.
- THE CONTRACTOR SHALL PAY FOR ANY WATER QUALITY CONTROL VIOLATIONS FROM ANY AGENCY THAT RESULTS IN FINES BEING ASSESSED TO THE OWNER BECAUSE OF THE CONTRACTOR'S FAILURE TO ELIMINATE TURBID RUNOFF FROM LEAVING THE SITE AND RAISING BACKGROUND LEVELS ABOVE EXISTING BACKGROUND LEVEL.
- A MINIMUM OF ONE OF THE EROSION CONTROL MEASURE OPTIONS SHOWN FOR ALL DROP INLETS WILL BE USED BY THE CONTRACTOR.
- FLOATING TURBIDITY BARRIERS WILL BE PLACED AT ALL OUTFALL LOCATIONS.
- SILT FENCES OR HAYBALES WILL BE USED ALONG BOTH SIDES OF LIMITS OF CONSTRUCTION TO MINIMIZE OFFSITE SILTATION MIGRATION.

EROSION AND SEDIMENT CONTROL GENERAL NOTE:

The following are Best Management Practices (BMP's) details and specifications. In addition to the standards per FDOT Index 100, 101, 102, 103 and 104, as well as per Florida's Erosion and Sediment Control Manual, and are only a suggested approach developed for use by the Owner/Contractor to assist them in implementing appropriate pollution prevention techniques to comply with Florida's NPDES Stormwater construction activity, as established by FDEP.

It is the Contractor's responsibility to determine and implement the best management practice that are appropriate for the project's site specific conditions during the life of the construction activities.



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CONSTRUCTION SET
NOVEMBER 2016

DSGN	M. LANDRUM						
DR	D. ALMENDINGER						
CHK	M. LANDRUM						
APVD	J. DEBRINCAT	NO.	DATE	REVISION	BY	APVD	

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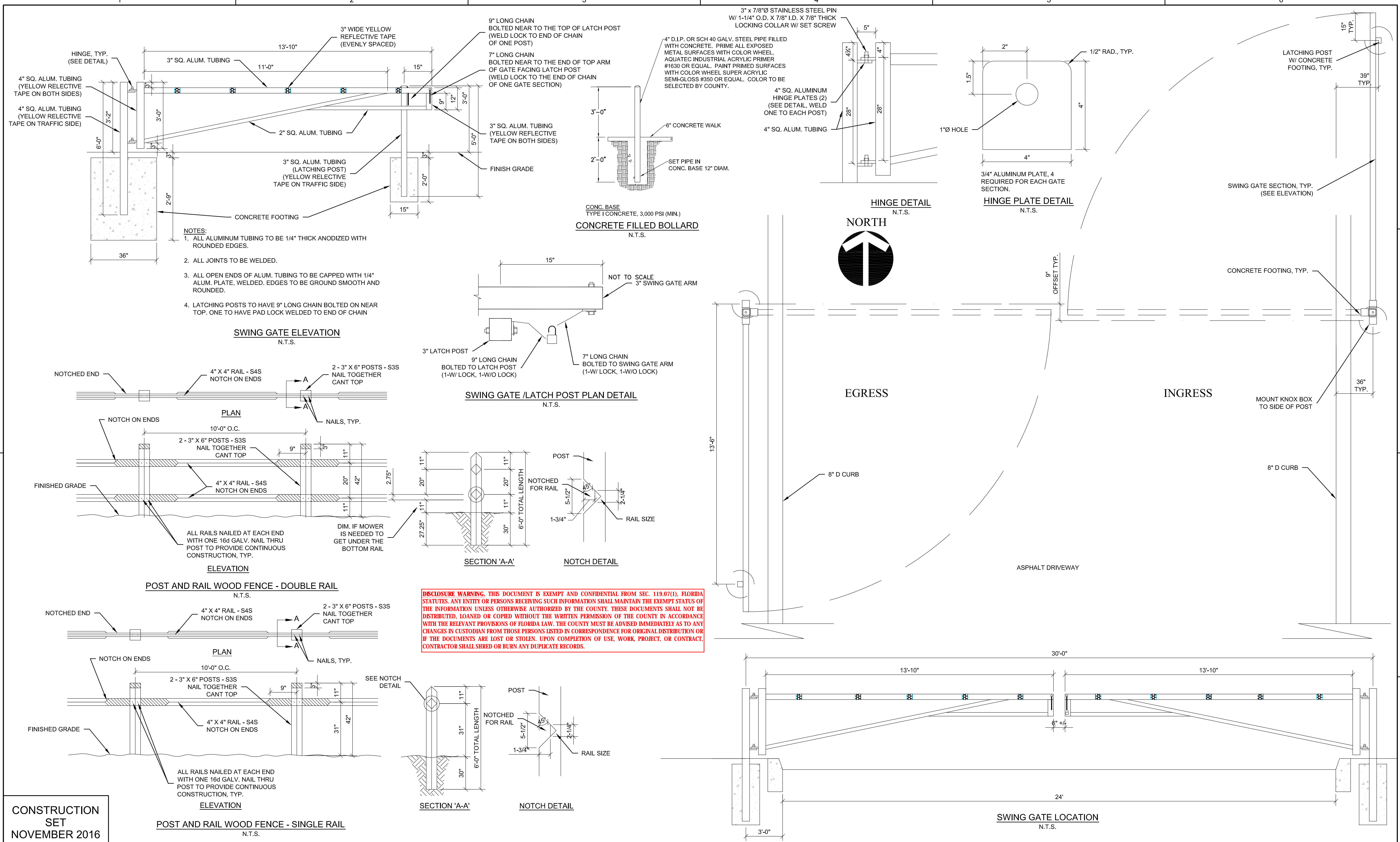
OKEEHEELEE PARK SOUTH
BOAT LAUNCH AND RESTROOM FACILITY
PALM BEACH COUNTY, FLORIDA

CIVIL
STORM WATER EROSION CONTROL
DETAILS

SHEET	26 OF 51
DWG	C20
DATE	NOVEMBER 2016
PROJ	409534

C20-CIVIL DETAILS-STORM WATER EROSION CONTROL.dwg: November 18, 2016

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C21-CIVIL DETAILS.dwg

CONSTRUCTION SET
NOVEMBER 2016

DSGN	M. LANDRUM						
DR	D. ALMENDINGER						
CHK	M. LANDRUM						
APVD	J. DEBRINCAT	NO.	DATE	REVISION	BY	APVD	

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BOAT LAUNCH AND RESTROOM FACILITY
PALM BEACH COUNTY, FLORIDA

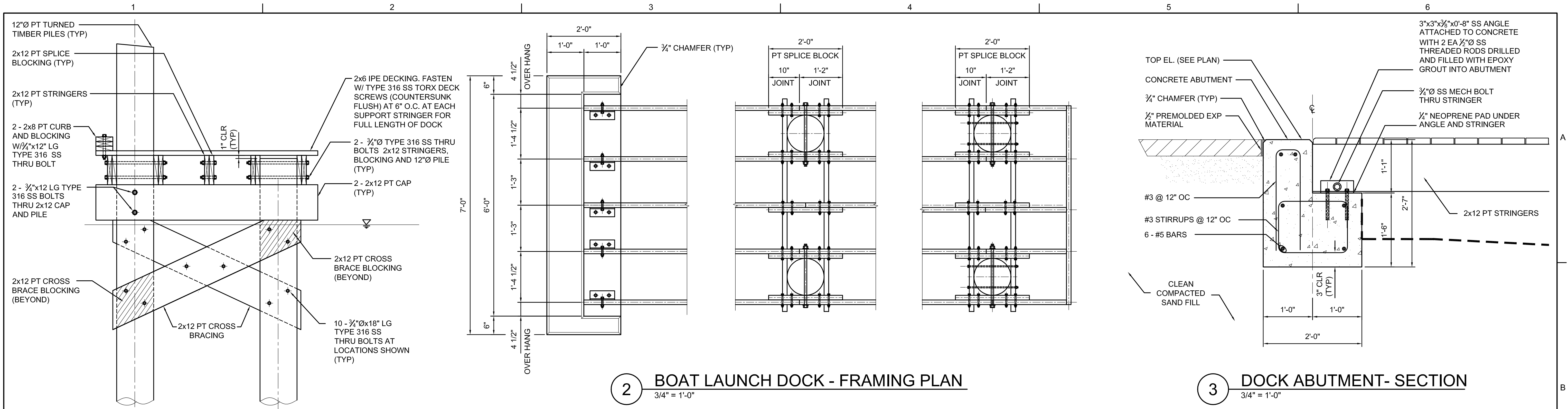
**CIVIL
CIVIL
DETAILS**

SHEET	27 OF 51
DWG	C21
DATE	NOVEMBER 2016
PROJ	409534

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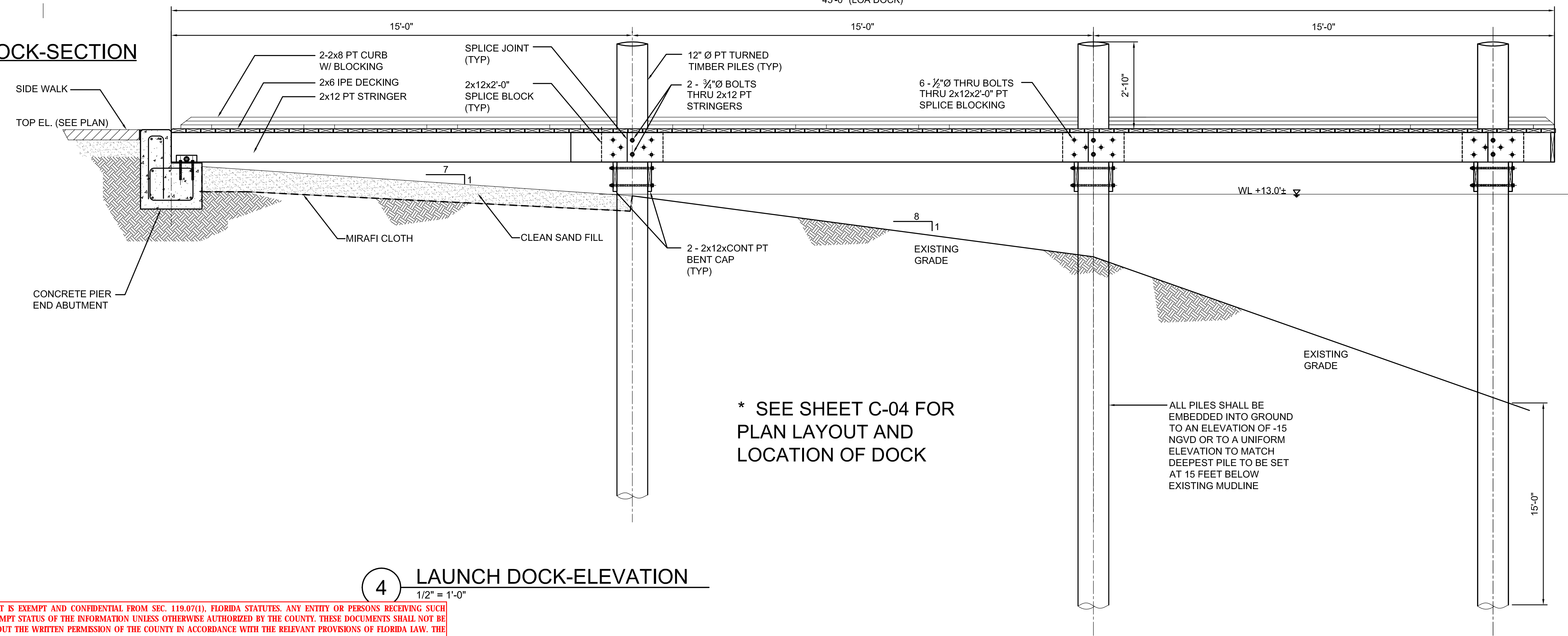
REUSE OF DOCUMENTS:



2 BOAT LAUNCH DOCK - FRAMING PLAN
3/4" = 1'-0"

3 DOCK ABUTMENT- SECTION
3/4" = 1'-0"

1 LAUNCH DOCK-SECTION
3/4" = 1'-0"



4 LAUNCH DOCK-ELEVATION
1/2" = 1'-0"

- WOOD FRAMING NOTES:**
- ALL PIER FRAMING AND DECKING SHALL BE CONSTRUCTED USING PT LUMBER.
 - PRE-DRILL ALL BOLT LOCATIONS UNLESS OTHERWISE NOTED.

* SEE SHEET C-04 FOR PLAN LAYOUT AND LOCATION OF DOCK

ALL PILES SHALL BE EMBEDDED INTO GROUND TO AN ELEVATION OF -15 NGVD OR TO A UNIFORM ELEVATION TO MATCH DEEPEST PILE TO BE SET AT 15 FEET BELOW EXISTING MUDLINE

Plotted: November 18, 2016
C22-BOAT LAUNCH DOCK DETAILS.dwg

CONSTRUCTION SET
NOVEMBER 2016

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DSGN	LARRY VAN DYK	NO.	DATE	REVISION	BY	APVD
DR	P. CIRALTS					
CHK	CASEY LONG					
APVD	CASEY LONG					

VERIFY SCALE
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CH2MHILL
3001 PGA BOULEVARD, SUITE 300
PALM BEACH GARDENS, FLORIDA 33410
EB 0000072 AA C000656 LC 26000188

OKEEHEELEE PARK SOUTH
BOAT LAUNCH AND RESTROOM FACILITY
PALM BEACH COUNTY, FLORIDA

CML
BOAT LAUNCH DOCK
DETAILS

SHEET	28 OF 51
DWG	C22
DATE	NOVEMBER 2016
PROJ	409534

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PLANT LEGEND:

- LIVE OAK, MAHOGANY
- SLASH PINE
- SABAL PALM
- SIMPSON'S STOPPER
- CARDBOARD PLANT
- PARSONI JUNIPER
- MUHLEY GRASS
- RED TIP COCOPLUM
- SAW PALMETTO
- SOD & SEED - BAHIAGRASS
- TREE BARRICADE SEE LANDSCAPE DETAILS

CODE LANDSCAPE NOTES:

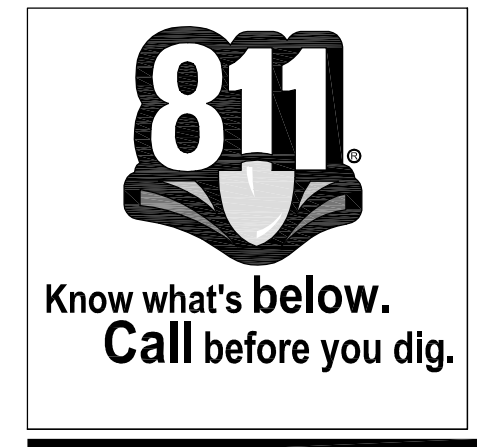
- CODE VEHICULAR USE AREA TREES ARE PROVIDED. CODE INTERNAL SITE TREES ARE MET WITH EXISTING TREES ON SITE AND WITHIN THE OVERALL PARK. THIS SITE IS EXEMPT FROM BUFFERS. THE MAIN FRONTAGE ROAD IS AN INTERNAL ACCESS EASEMENT.

GENERAL LANDSCAPE NOTES:

- MULCH ALL NEW PLANTING BEDS AND TREE RINGS WITH A 3" DEPTH OF RECYCLED SHREDDED HARDWOOD
- PROVIDE A 3 FOOT DIAMETER MULCH RING AROUND EXISTING TREES WHERE NEW SOD IS INSTALLED
- MULCH 2 FOOT WIDE STRIP AROUND THE LIMITS (DRIP LINE) OF EXISTING SHRUB AREAS
- CLEAR OUT DEBRIS AND TRIM OUT DEAD MATERIAL WITHIN EXISTING SHRUB AREAS
- ALL SHRUBS SHALL BE PLANTED 2' ON CENTER UNLESS OTHERWISE SPECIFIED
- SOD OR SEED ANY GRASS AREAS DAMAGED DURING CONSTRUCTION WITH MATCHING GRASS SPECIES
- PROVIDE DAILY WATERING DURING THE FIRST 90 DAYS (ESTABLISHMENT PERIOD) AFTER PLANTING. MONITOR SOIL MOISTURE DAILY AND WATER AS NECESSARY TO KEEP SOIL DAMP TO 4" DEEP THROUGHOUT THE DESIGNATED LANDSCAPE AREA
- SEE DETAIL SHEET L03 FOR PLANTING DETAILS
- SOD ALL GRASS AREAS DAMAGED DURING CONSTRUCTION
- SEE SHEET C04 FOR WOOD RAIL FENCE LOCATIONS
- WHERE JUNIPER ARE PLANTED INSTALL FILTER FABRIC AND APPLY PRE-EMERGENT HERBICIDE AFTER MULCHING
- THERE IS TO BE 10 FEET OF SOD BETWEEN CURBS, FENCES AND PLANTING AREAS UNLESS OTHERWISE SHOWN

TREE MITIGATION LEGEND

M - TREES INSTALLED TO MEET MITIGATION CREDITS



TREE MITIGATION NOTES:

- RELOCATE 7 SABAL PALM TO THE LOCATION SHOWN ON THIS SHEET.
- REMOVE 3 OAK AND 23 PINE TREES AS LISTED ON SHEET DM1. 53 TREE CREDITS ARE REQUIRED TO BE MITIGATED FOR THIS REMOVAL BASED ON ULDC ARTICLE 7. SEE THE PLANT SCHEDULE ON SHEET L03 FOR THE LIST OF MITIGATION CREDITS MET WITH THIS LANDSCAPE PLAN. THE REMAINING CREDITS WILL BE MET BY PAYING INTO THE TREE BANK FOR RIVER BEND PARK.
- THE CONTRACTOR IS REQUIRED TO MODIFY THE TREE REMOVAL PERMIT IF FIELD CONDITIONS AT THE TIME OF CONSTRUCTION DIFFER FROM THE PLAN.

TREE REMOVAL NOTES:

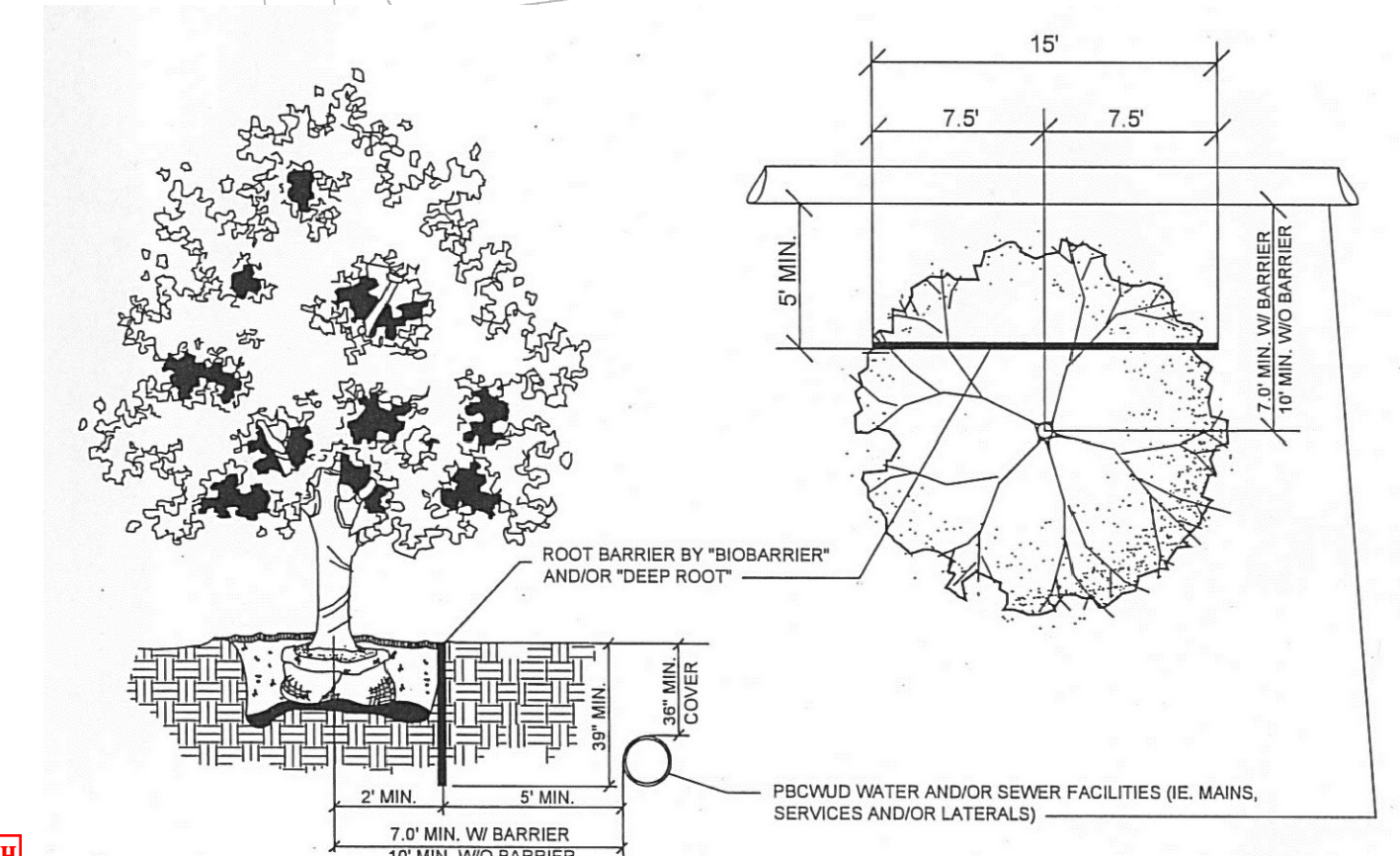
- A PRE-CLEARING SITE MEETING SHALL BE SCHEDULED WITH THE CLEARING CONTRACTOR, ERM, LANDSCAPE ARCHITECT, AND THE PROJECT ENGINEER TO INSPECT AND FLAG TREES PRIOR TO THEIR REMOVAL.
- PRIOR TO CONSTRUCTION INSTALL TREE PROTECTION BARRICADES IN LOCATIONS SHOWN ON THE PLANS AND PRESCRIBED IN THE LANDSCAPE DETAILS. MAINTAIN THE BARRICADES THROUGHOUT CONSTRUCTION.

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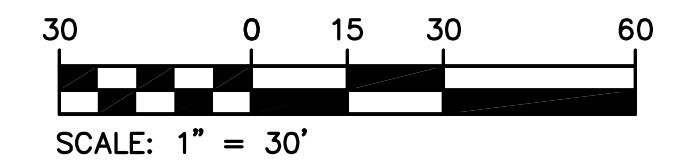
LANDSCAPE AND ROOT BARRIER NOTE:

TREES SHOWN ON THIS PLAN ARE FOR GRAPHIC REPRESENTATION ONLY. TREE SPACING IS BASED ON DESIGN REQUIREMENTS AND THE TREES SHOWN ON THESE PLANS ATTEMPT TO ACCOMPLISH THAT SPACING WHILE MAINTAINING THE REQUIRED SETBACKS FROM UTILITIES. TREES MAY BE FIELD ADJUSTED TO AVOID CONFLICTS WITH DRIVEWAYS AND UNDERGROUND UTILITIES. IN ANY CASE THE TREES SHALL BE LOCATED IN THE FIELD IN ACCORDANCE WITH THE PLANTING DETAILS SHOWN HEREON.

ADDITIONALLY, TREES ARE TO BE INSTALLED WITH A 10 FOOT SEPARATION FROM ANY WATER OR SEWER MAIN AND/OR SERVICE, HYDRANTS, AND LIFT STATIONS. IF A 10 FOOT SEPARATION CANNOT BE ACHIEVED, THE TREE CAN BE INSTALLED WITH A ROOT BARRIER SYSTEM. REFER TO THE "ROOT BARRIER" DETAIL FOR INSTALLATION REQUIREMENTS. HOWEVER, IN NO CASE SHALL A TREE ENCROUGH INTO A PBCUE WITHOUT PRIOR PBCWUD APPROVAL AND ONLY SOD CAN BE INSTALLED WITHIN 7.5' OF A FIRE HYDRANT UNLESS OTHERWISE APPROVED BY THE FIRE MARSHAL AND PBCWUD.



ROOT BARRIER DETAIL



CONSTRUCTION SET NOVEMBER 2016

DSGN	S. BARBER						
DR	S. BARBER						
CHK	S. BARBER						
APVD	S. BARBER	NO.	DATE	REVISION	BY	APVD	

VERIFY SCALE
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 EB 0000072 AA C000656 LC 26000188

OKEEHEELEE PARK SOUTH
 BOAT LAUNCH AND RESTROOM FACILITY
 PALM BEACH COUNTY, FLORIDA

LANDSCAPE PLANTING PLAN

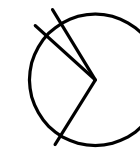



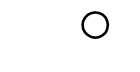




SHEET	29 OF 51
DWG	L01
DATE	NOVEMBER 2016
PROJ	409534

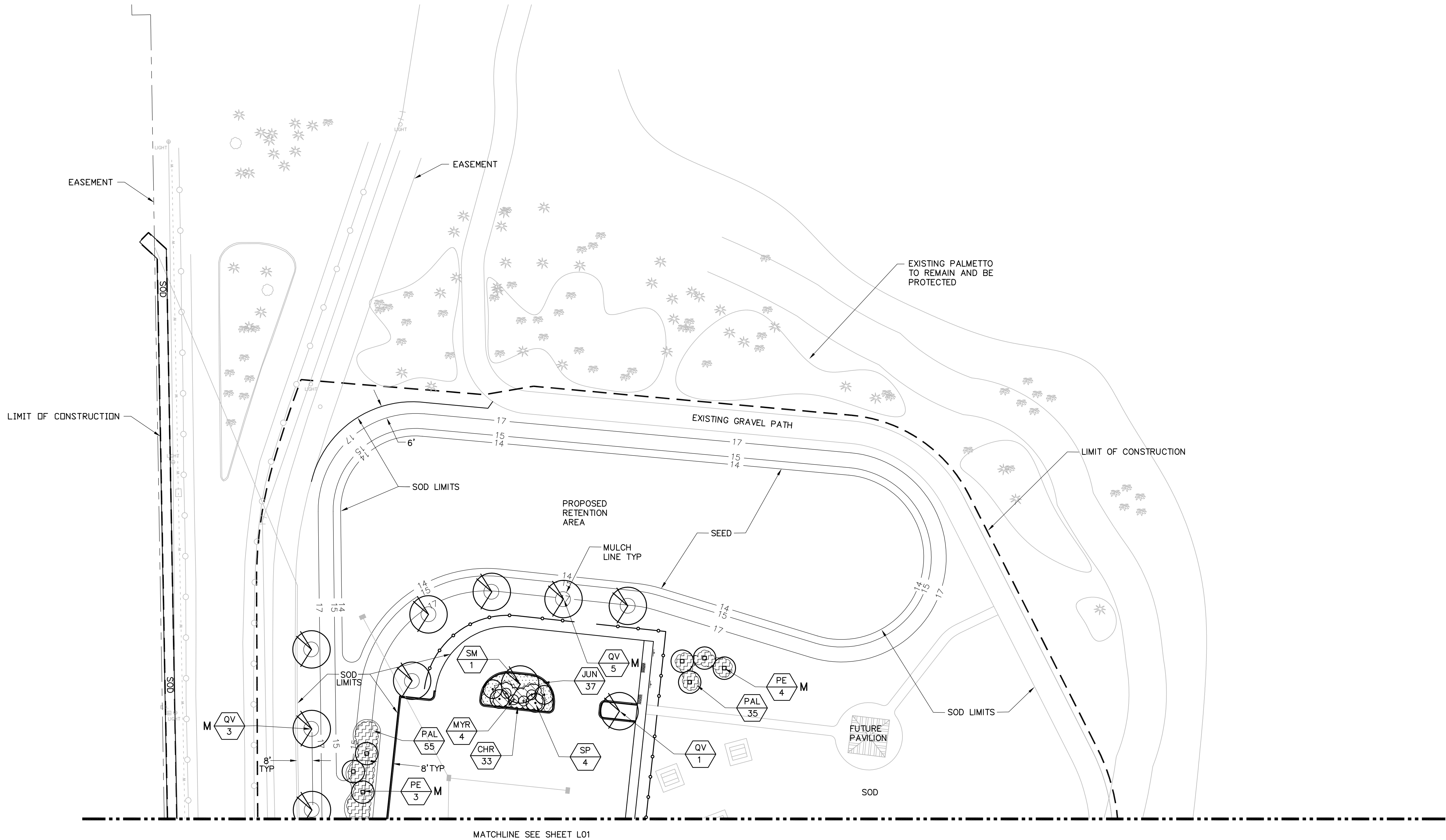
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L01-LANDSCAPE PLAN.dwg

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PLANT LEGEND:

-  LIVE OAK, MAHOGANY
-  SLASH PINE
-  SABAL PALM
-  SIMPSON'S STOPPER
-  CARDBOARD PLANT
-  PARSONI JUNIPER
-  MUHLEY GRASS
-  RED TIP COCOPLUM
-  SAW PALMETTO
- SOD & SEED - BAHIA GRASS



MATCHLINE SEE SHEET L01

Plotted: November 18, 2016

L02-LANDSCAPE PLAN.dwg

A
B
C
D
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NOVEMBER 2016**

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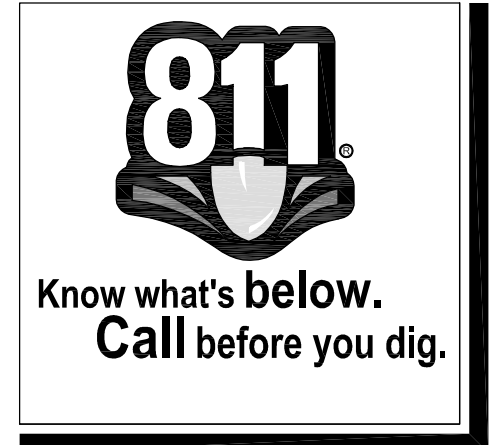
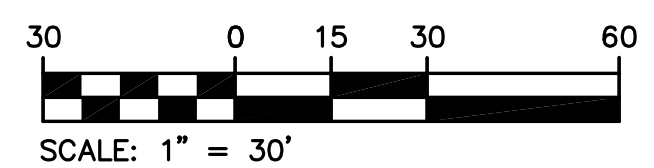
DSGN	S. BARBER						
DR	S. BARBER						
CHK	S. BARBER						
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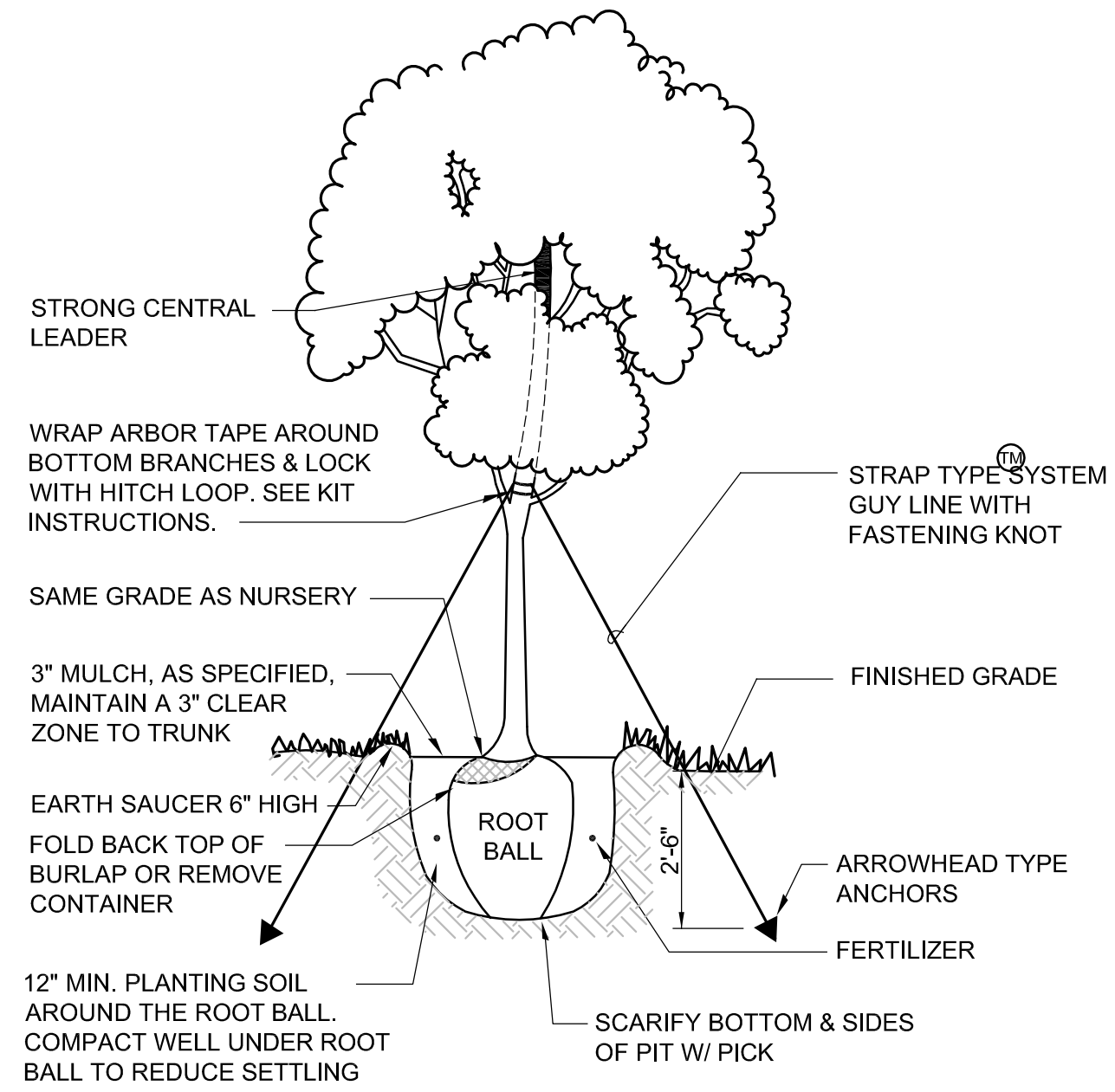
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EB 000072 AA C000656 LC 26000188

OKEEHEELEE PARK SOUTH
BOAT LAUNCH AND RESTROOM FACILITY
PALM BEACH COUNTY, FLORIDA

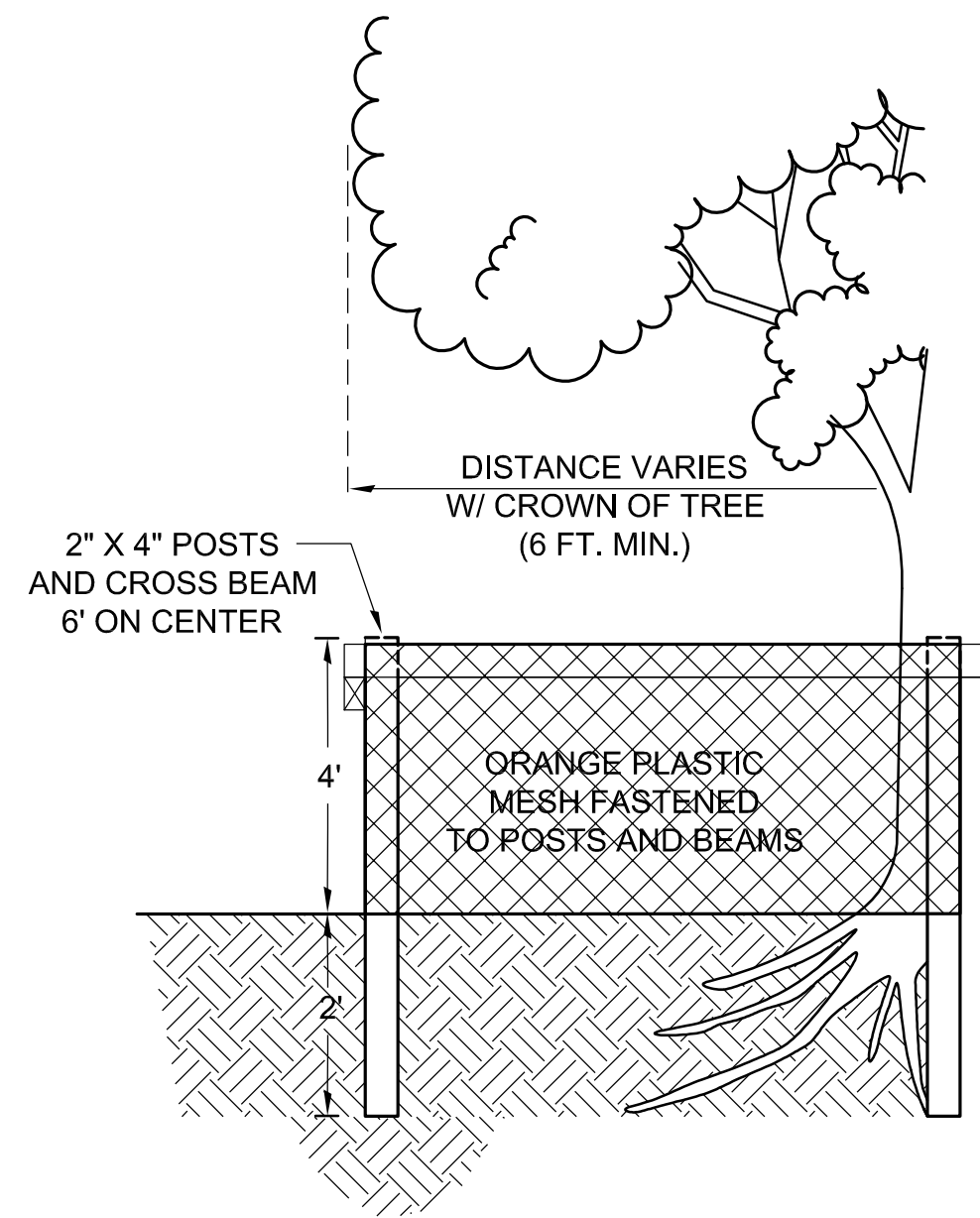
**LANDSCAPE
PLANTING PLAN**



SHEET	30 OF 51
DWG	L02
DATE	NOVEMBER 2016
PROJ	409534

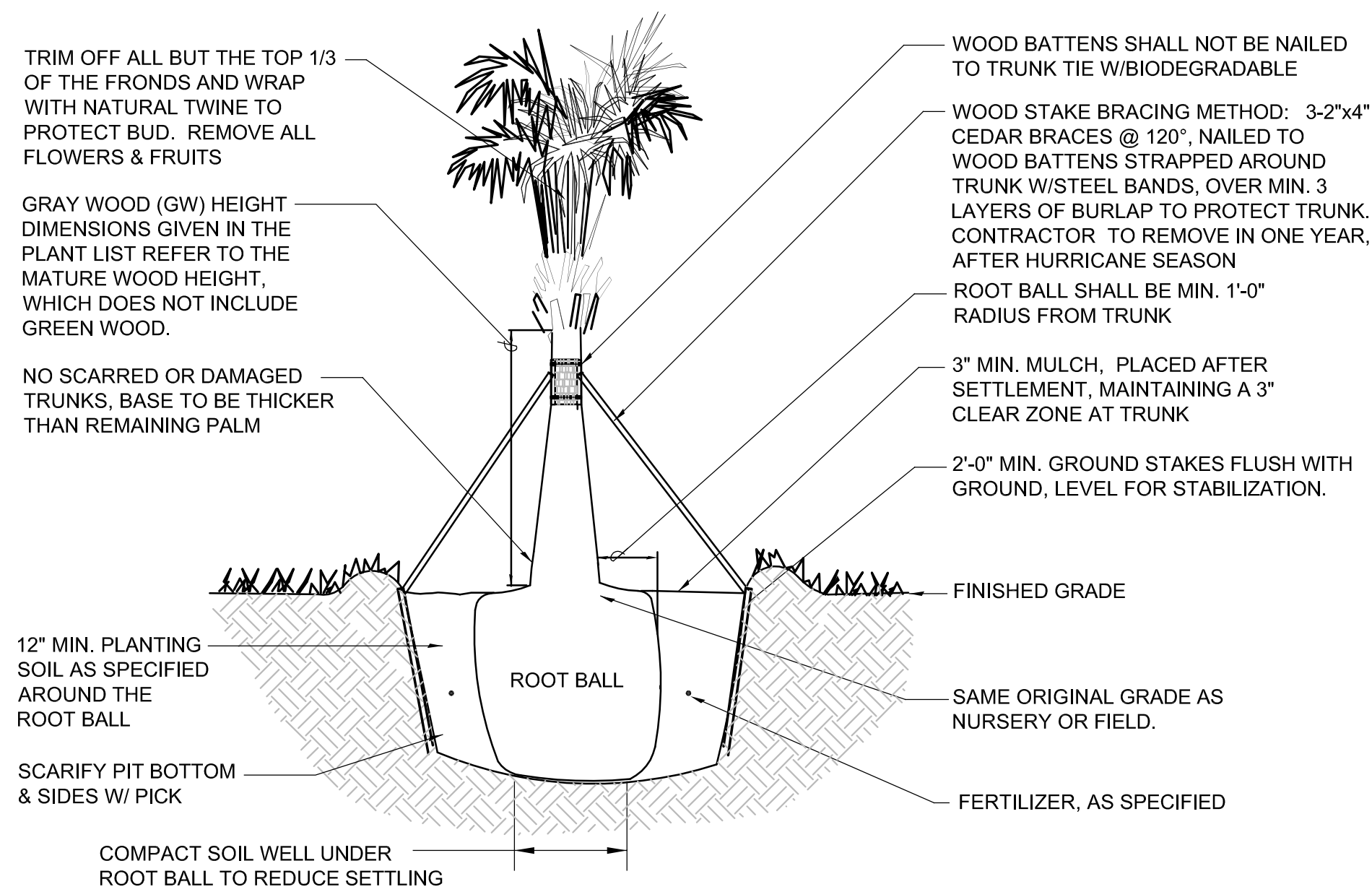


1 TYPICAL TREE PLANTING DETAIL N.T.S.

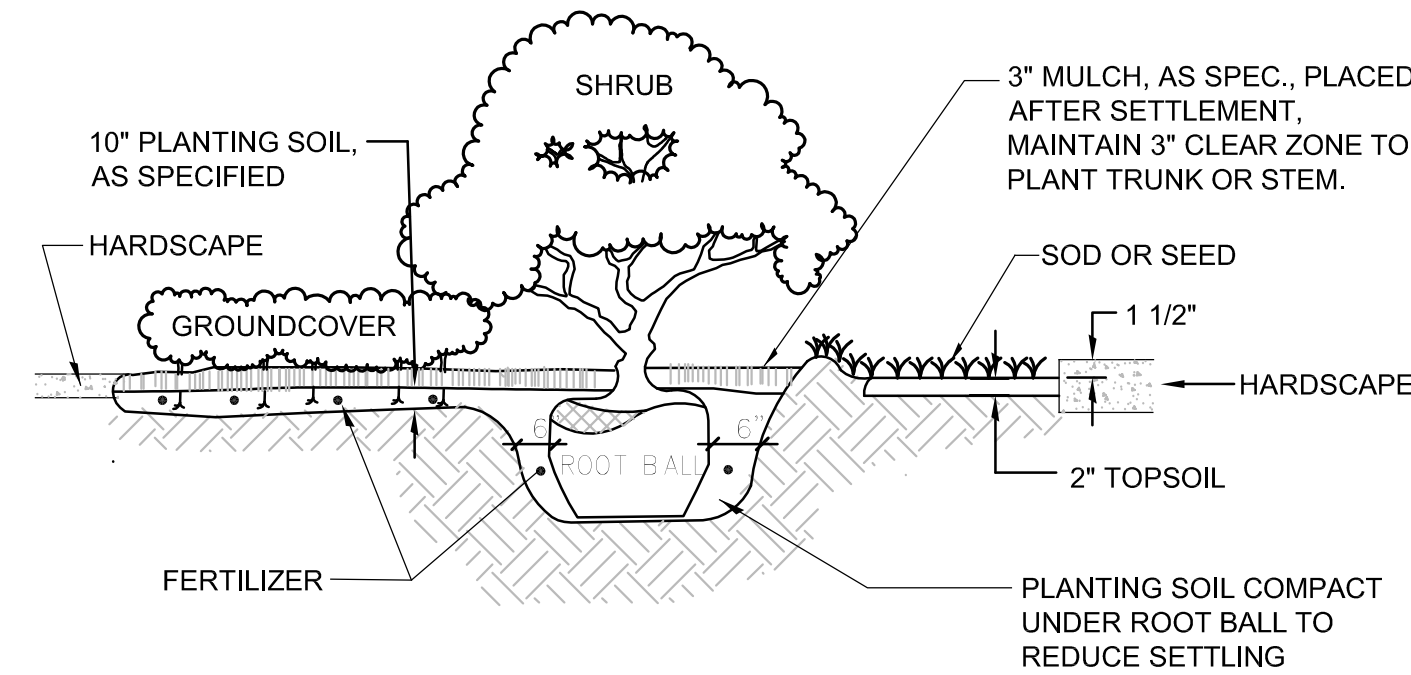


- NOTE:
1. PLACE BARRICADE AROUND TREES AND SHRUBS TO REMAIN PRIOR TO DEMOLITION, CLEARING, OR SITE WORK.
 2. NO VEHICULAR TRAFFIC, STAGING OF CONSTRUCTION MATERIALS OR ROOT COMPACTION WITHIN BARRICADED AREAS.
 3. NO ROOT CUTTING, FILLING, TRENCHING, OR CORING ALLOWED WITHIN BARRICADED AREA WITHOUT APPROVAL FROM THE CONSTRUCTION MANAGER PRIOR TO ACTIVITIES.

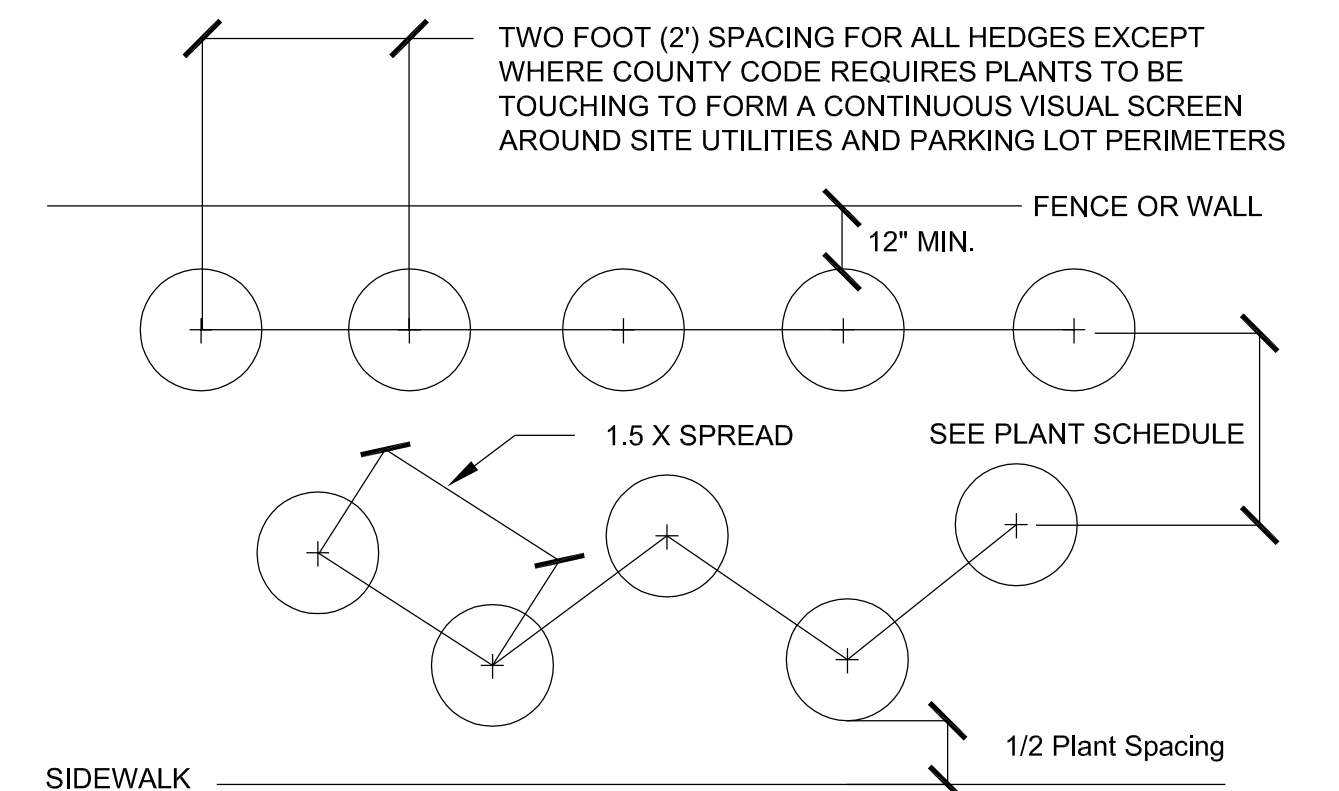
2 TREE PROTECTION BARRICADE DETAIL N.T.S.



5 TYPICAL PALM PLANTING DETAIL N.T.S.



3 TYPICAL SHRUB PLANTING DETAIL N.T.S.



4 PLANT SPACING DETAIL N.T.S.

PLANT SCHEDULE

SYMBOL	QTY.	BOTANICAL NAME	COMMON NAME	SPECIFICATIONS	Notes	Mitigation Credits Planted
TREES						
QV*	19	Quercus virginiana	Live Oak	FG, 14' - 16' OA HT, 3" DBH	6 Required for Vehicular Use Area Trees	12
SM*	5	Swietenia mahogani	Mahogany	FG, 14' - 16' OA HT, 3" DBH	5 Required for Vehicular Use Area Trees	0
PE*	21	Pinus elliotii var. Densa	South Florida Slash Pine	CO, 14' OA HT, 3" DBH	0 Required for Vehicular Use Area Trees	21
MYR*	22	Myrcianthes fragrans	Simpson's Stopper	CO, 6' OA HT, MTL Tree Form		
PALMS						
SP*	15	Sabal Palmetto	Sabal Palm	FG, 10' GW, Slick trunks	6 Required for Vehicular Use Area Trees	3
SPR*	7	Sabal Palmetto	Sabal Palm	See Demolition Sheet for List	Relocated per ERM Requirements	
SHRUBS						
ZAM*	3	Zamia furfuracea	Cardboard Plant	15G, Full		
JUN	175	Juniperus chinensis 'Parsonii'	Parson's Juniper	3G, 18" SPR, 36" OC		
CHR*	161	Chrysobalanus icaco 'Red Tip'	Red Tip Cocoplum	3G, 24"x24", 36" OC		
MUH*	191	Muhlenbergia capillaris	Pink Muhly Grass	3G, 18"x18", 36" OC		
PAL	270	Sereona repens	Saw Palmetto	7G, 18"x18", 36" OC		
LAWN GRASS						
SEED	**	Paspalum notatum	Argentine Bahia	Broadcast Seed, Straw Mulch		
SOD	**	Paspalum notatum	Argentine Bahia	Solid Sod, Tight Joints		

MITIGATION SCHEDULE (53 MITIGATION CREDITS REQ.)

Mitigation Credits Planted = 36	
---------------------------------	--

* Denotes Native Species
 ** Contractor to verify sod or seed area prior to bidding

QUANTITIES ON PLANT LIST ARE A COURTESY ONLY. LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR ALL PLANTS SHOWN ON PLANTING PLANS. WHEN DISCREPANCIES OCCUR BETWEEN PLANT LIST AND PLANTING PLANS, THE PLANS ARE TO OVERRIDE THE PLANT LIST IN ALL CASES. CONTRACTOR IS RESPONSIBLE FOR CONFIRMING SOD QUANTITIES AND CERTIFYING SUCH TO THE OWNER OR HIS REPRESENTATIVE.

PLANT SCHEDULE KEY

- | | |
|-----------------------------|-----------------|
| AS = AS SHOWN | HT = HEIGHT |
| BB = BALLED AND BURLAPPED | MIN = MINIMUM |
| CAL = CALIPER | MTL = MULTIPLE |
| CT = CLEAR TRUNK | OA = OVERALL |
| DBL = DOUBLE TRUNK | OC = ON CENTER |
| DBH = DIAMETER BREST HEIGHT | SPR = SPREAD |
| FG = FIELD GROWN | CO = CONTAINER |
| FTB = FULL TO BASE | CW = CLEAR WOOD |
| G = GALLON | GW = GRAY WOOD |

CONSTRUCTION SET
 NOVEMBER 2016

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DR	S. BARBER				
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APVD	S. BARBER	NO.	DATE	REVISION	BY

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OKEEHEELEE PARK SOUTH
 BOAT LAUNCH AND RESTROOM FACILITY
 PALM BEACH COUNTY, FLORIDA

LANDSCAPE
 DETAILS

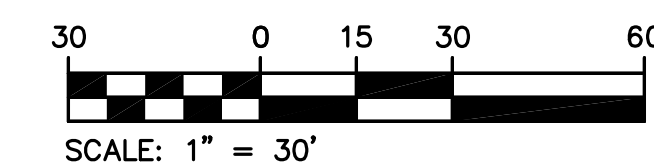
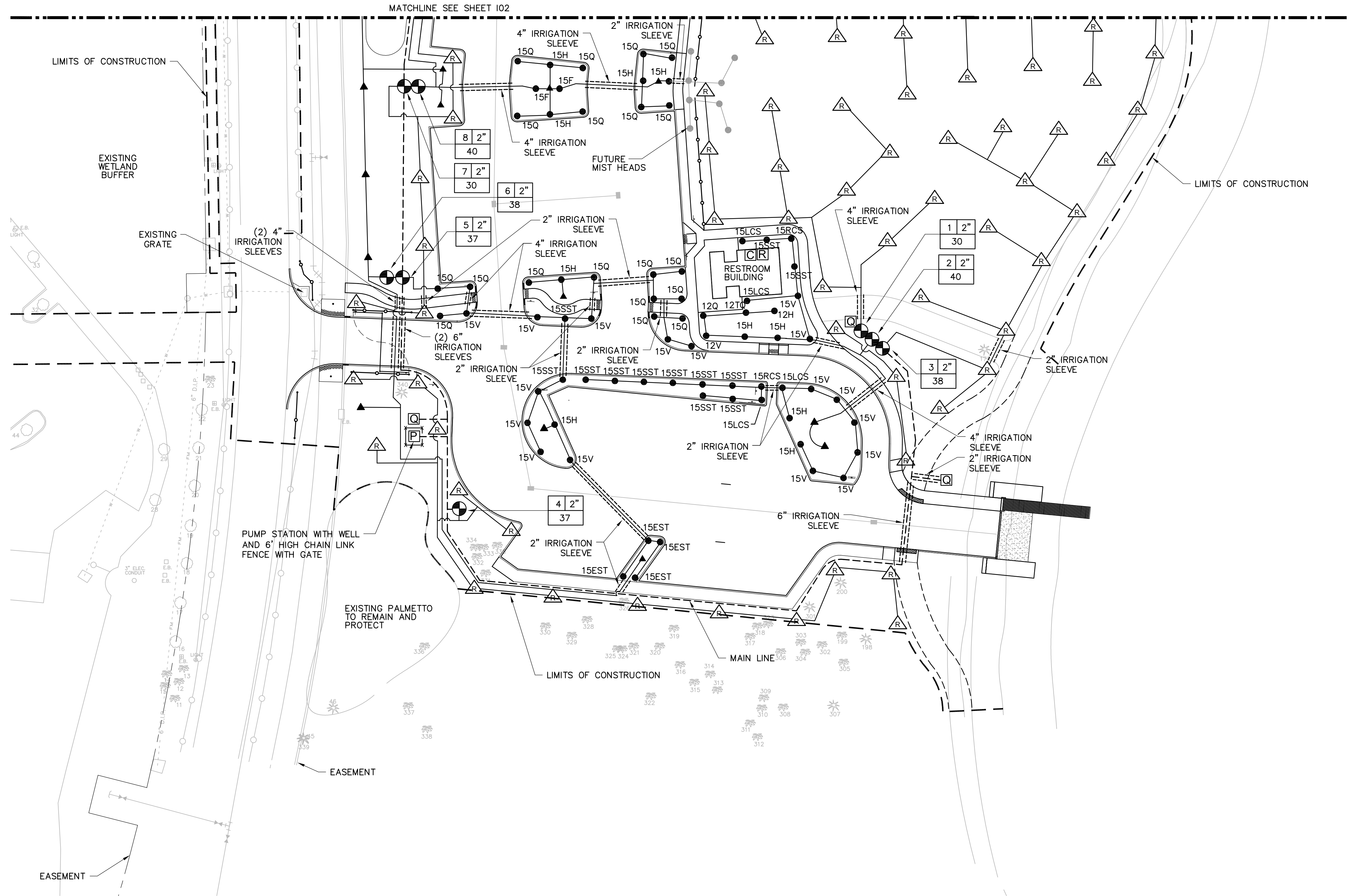
SHEET	31 OF 51
DWG	L03
DATE	NOVEMBER 2016
PROJ	409534

IRRIGATION LEGEND

	2" Main Line	SCH 40 PVC
	Lateral Pipe - Sized for max. water flow of 5 FPS (Min. 3/4")	SCH 40 PVC
	Sleeves - Size noted on plans	SCH 80 PVC
	Rainbird ESPLXME Control Clock (Mount on Restroom Building)	
	Rainbird RSDBEX Rain Sensor (Mount on Restroom Building) (Hard Wired to the Controller)	
	Rainbird Quick Coupler 44-LRC	
	5 hp Submersible Pump with 4 inch dia. well	
	Hunter I-20 Rotary Sprinkler (Nozzle #1.5 / #2.5 / #4.0)	180° Spray 90° Spray 360° Spray
	Nozzle	
	Rainbird Pop-up Spray Head - See plan for nozzle type	
	Quarter Spray	
	Half Spray	
	Three Quarter Spray	
	Full Spray	
	Variable Adjustable Spray	
	Irritrol 533 Adjustable Flood Bubblers (2 per tree)	
	Irritrol 100 Series Zone Valve	
	Zone Station #	
	Control Valve Size	
	Nibco T-113 Brass Gate Valve, size per mainline	Install in a CDR 1324 Flared Valve Box.

GENERAL IRRIGATION NOTES

1. CONTACT PARK MAINTENANCE TO COORDINATE WATERING SCHEDULE
2. PROVIDE TWO (2) BUBBLERS PER TREE
3. SEE DETAIL SHEET I03 FOR IRRIGATION DETAILS
4. PROVIDE THRUST BLOCKS ON THE MAIN IRRIGATION LINE
5. COORDINATE WITH THE GENERAL AND SUBCONTRACTORS FOR SLEEVE PLACEMENT AND LOCATIONS.



**CONSTRUCTION SET
NOVEMBER 2016**

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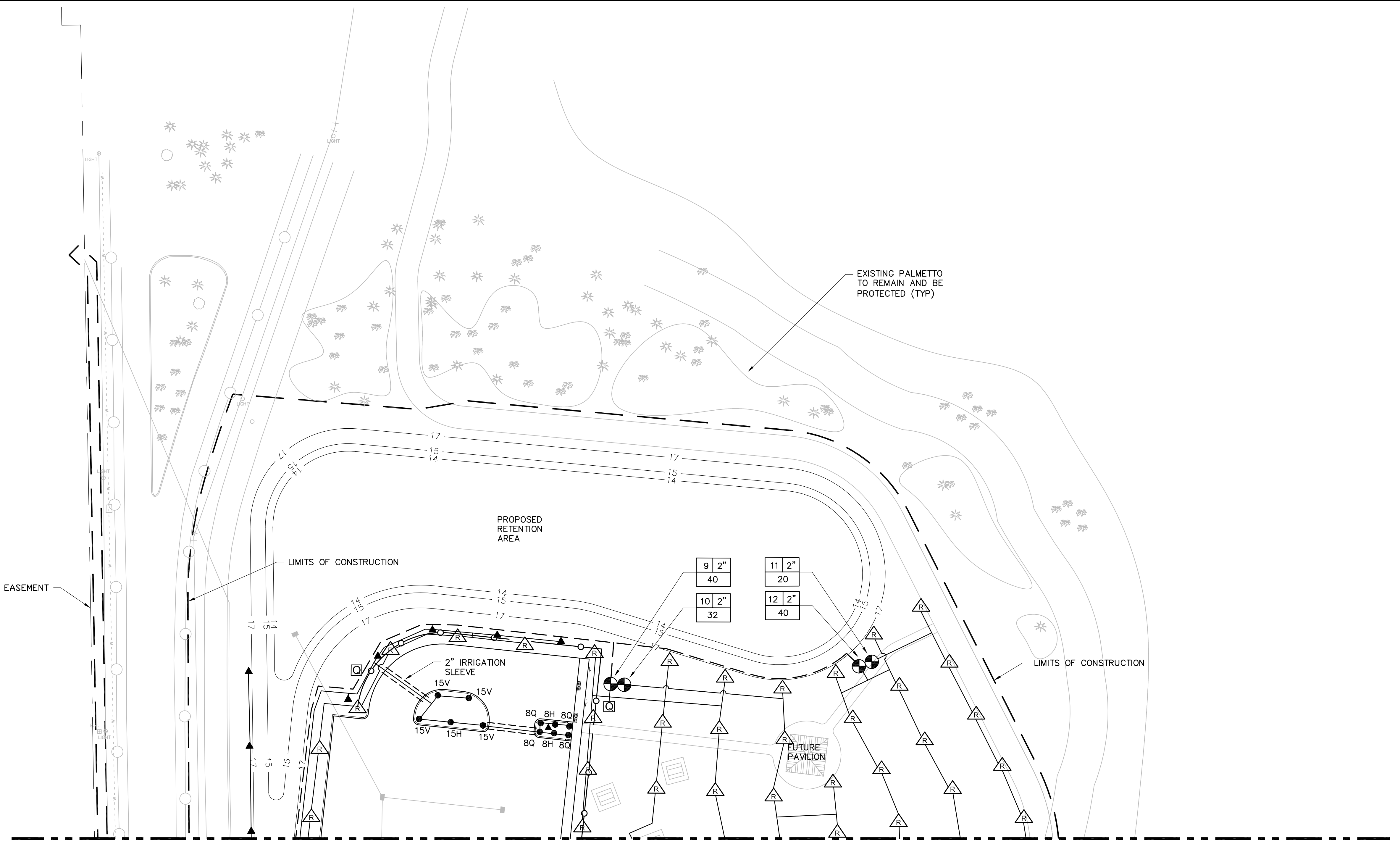
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BOAT LAUNCH AND RESTROOM FACILITY
PALM BEACH COUNTY, FLORIDA

**LANDSCAPE
IRRIGATION PLAN**

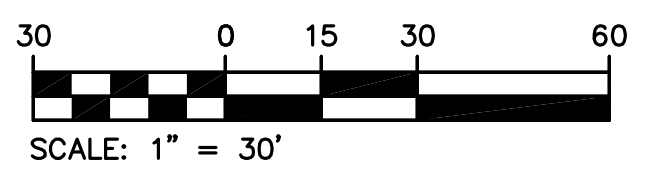
SHEET	32 OF 51
DWG	I01
DATE	NOVEMBER 2016
PROJ	409534

IRRIGATION LEGEND

- 2" Main Line SCH 40 PVC
- Lateral Pipe - Sized for max. water flow of 5 FPS (Min. 3/4") SCH 40 PVC
- ==== Sleeves - Size noted on plans SCH 80 PVC
- Ⓢ Rainbird ESPLXME Control Clock (Mount on Restroom Building)
- Ⓡ Rainbird RSDBEX Rain Sensor (Mount on Restroom Building) (Hard Wired to the Controller)
- Ⓚ Rainbird Quick Coupler 44-LRC
- Ⓟ 5 hp Submersable Pump with 4 inch dia. well
- Ⓡ Hunter I-20 Rotary Sprinkler (Nozzle #1.5 / #2.5 / #4.0)
 - 180° Spray
 - 90° Spray
 - 360° Spray
- 15Q Nozzle
 - Rainbird Pop-up Spray Head - See plan for nozzle type
 - Q - Quarter Spray
 - H - Half Spray
 - TQ - Three Quarter Spray
 - F - Full Spray
 - V - Variable Adjustable Spray
- ▲ Irritrol 533 Adjustable Flood Bubblers (2 per tree)
- ⊙ Irritrol 100 Series Zone Valve
 - Zone Station #
 - GPM Control Valve Size
- ⊘ Nitbco T-113 Brass Gate Valve, size per mainline Install in a CDR 1324 Flared Valve Box.



MATCHLINE SEE SHEET L01



Plotted: November 17, 2016

102-IRRIGATION PLAN.dwg

**CONSTRUCTION SET
NOVEMBER 2016**

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DSGN	S. BARBER					
DR	S. BARBER					
CHK	S. BARBER					
APVD	S. BARBER	NO.	DATE	REVISION	BY	APVD

VERIFY SCALE
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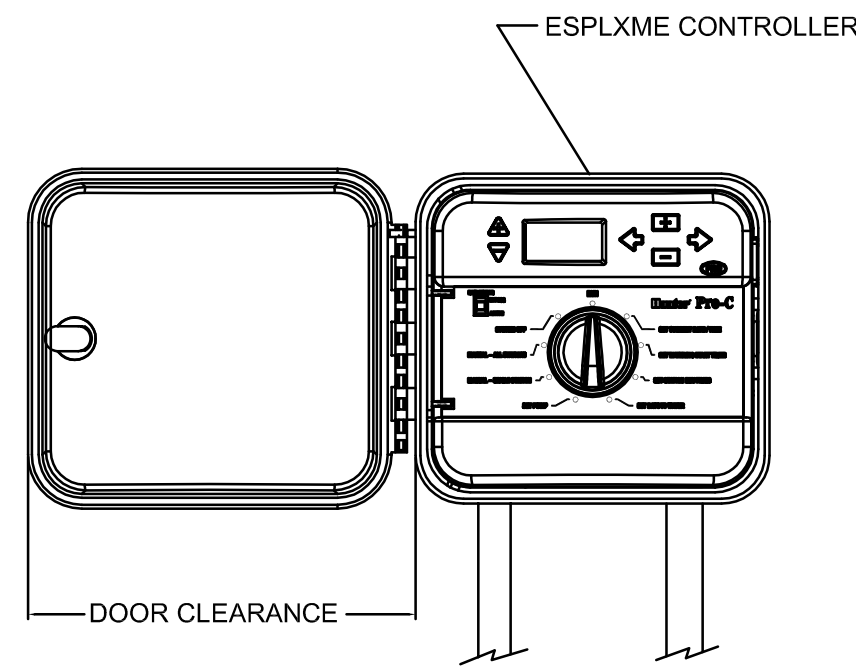
CH2MHILL
3001 PGA BOULEVARD, SUITE 300
PALM BEACH GARDENS, FLORIDA 33410
EB 0000072 AA C000656 LC 26000188

OKEEHEELEE PARK SOUTH
BOAT LAUNCH AND RESTROOM FACILITY
PALM BEACH COUNTY, FLORIDA

**LANDSCAPE
IRRIGATION PLAN**

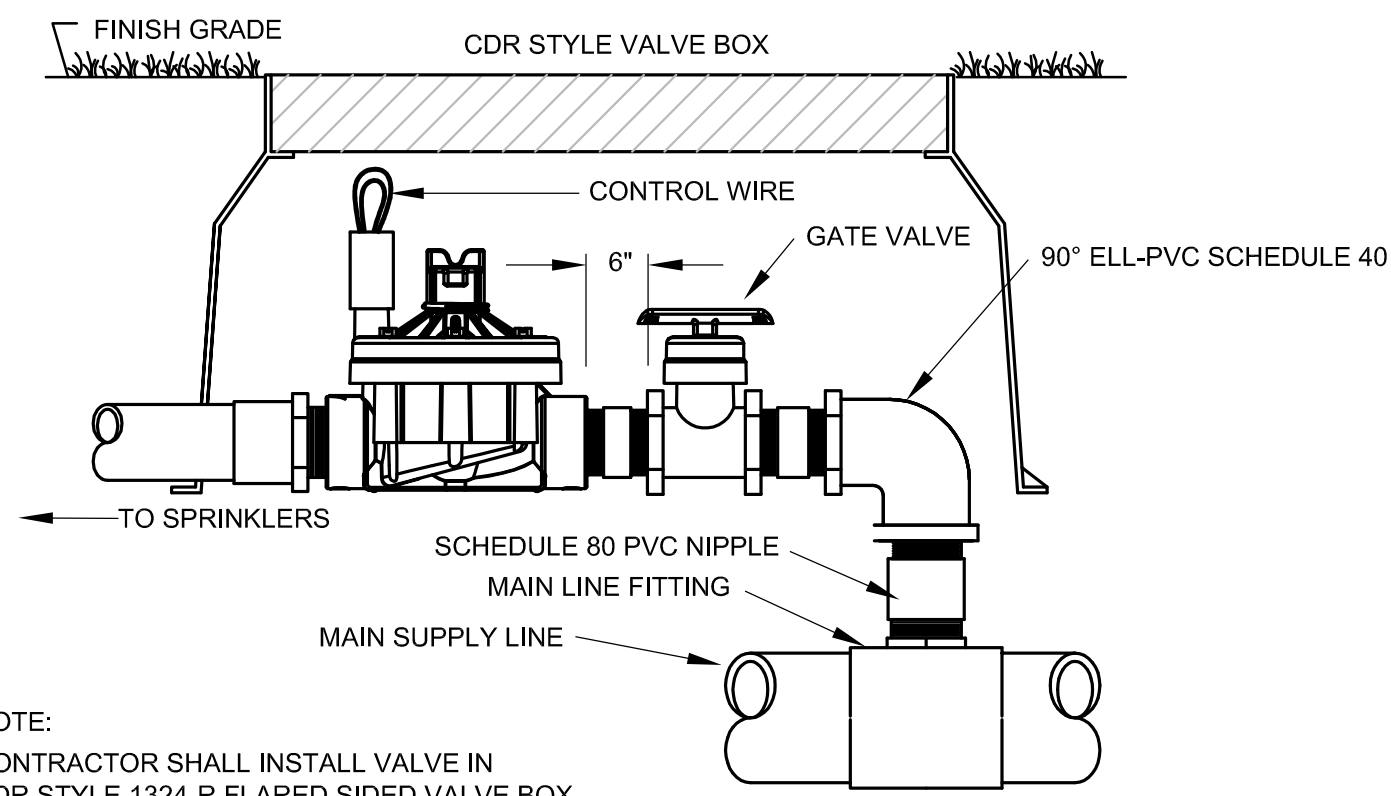
SHEET	33 OF 51
DWG	102
DATE	NOVEMBER 2016
PROJ	409534

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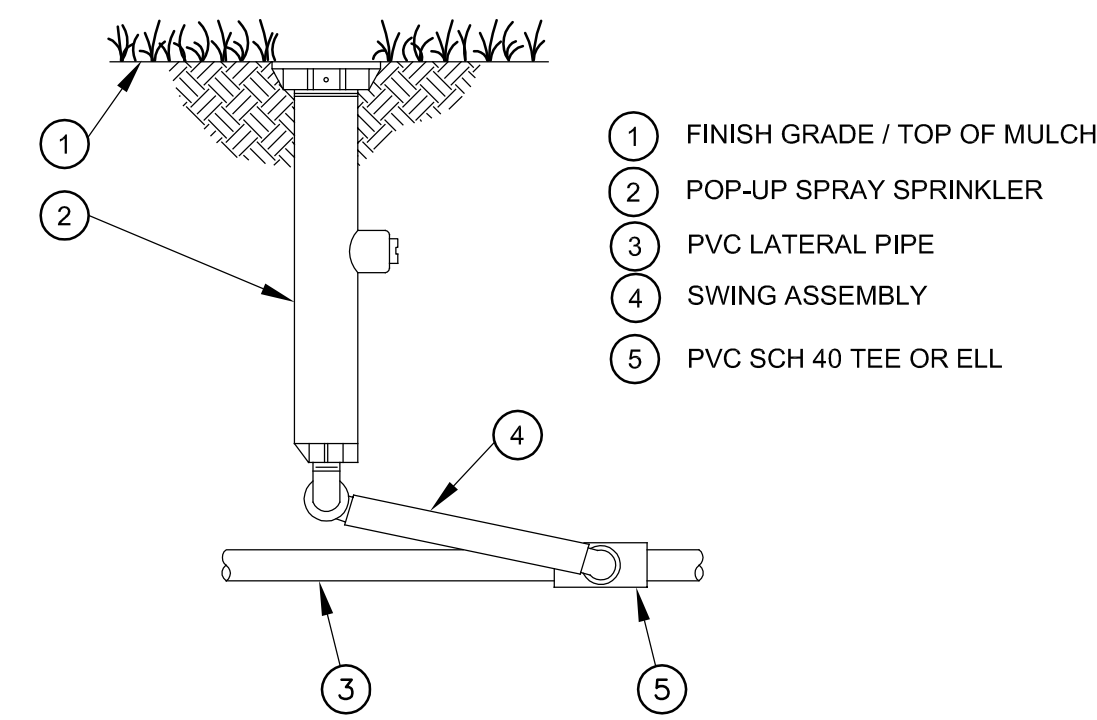
NOTE:
 1. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING AND PROVIDING POWER TO ALL CONTROLLERS
 2. LABEL ZONE NUMBER AT TERMINALS WITH WATER PROOF LABELING
 3. CONTRACTOR SHALL CONNECT TO VALVES WITH 12 GAUGE HOT ZONE WIRES AND 10 GAUGE GROUND WIRE
 4. CONTRACTOR SHALL PROVIDE 1 SPARE WIRE FOR EVERY 4 ZONES

1 CONTROLLER (OUTDOOR) INSTALLATION DETAIL N.T.S.



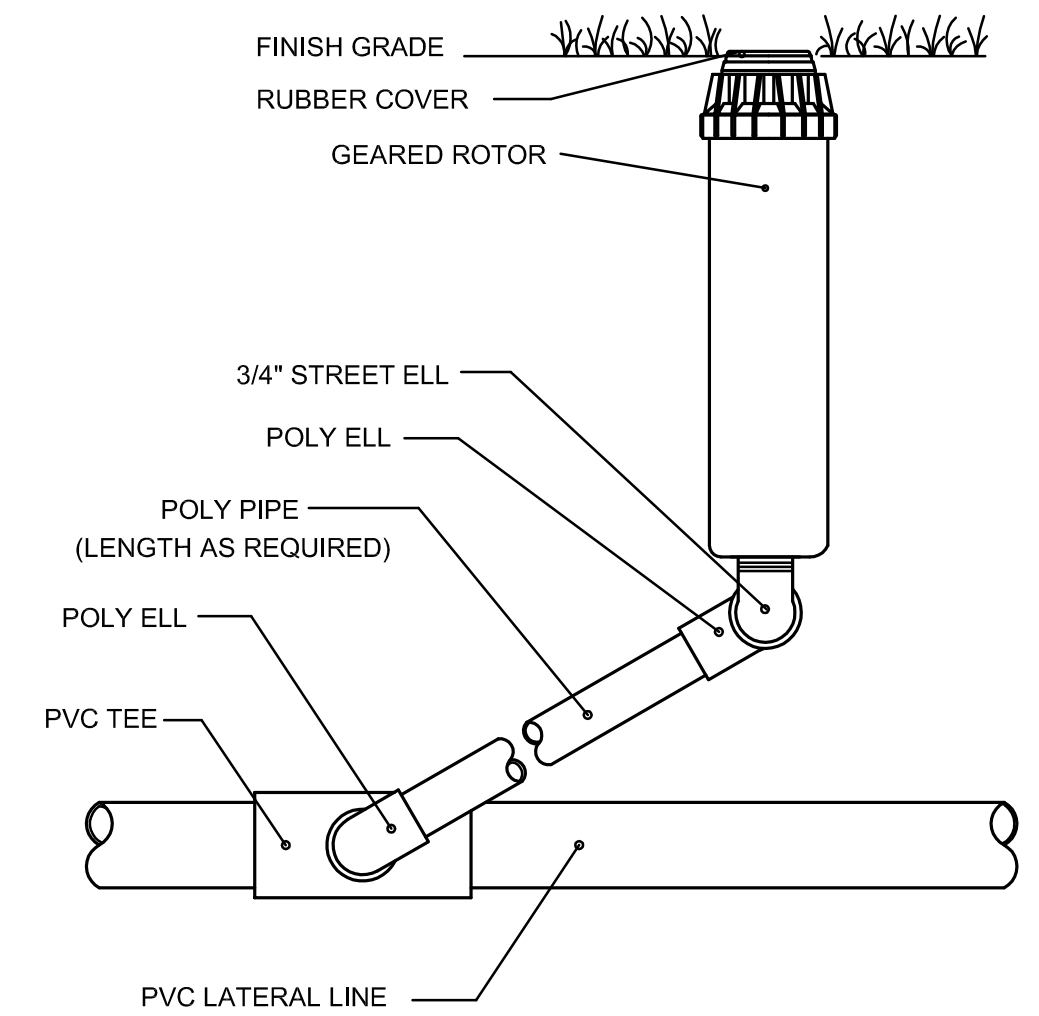
NOTE:
 CONTRACTOR SHALL INSTALL VALVE IN CDR STYLE 1324-R FLARED SIDED VALVE BOX

2 CONTROL VALVE INSTALLATION DETAIL N.T.S.

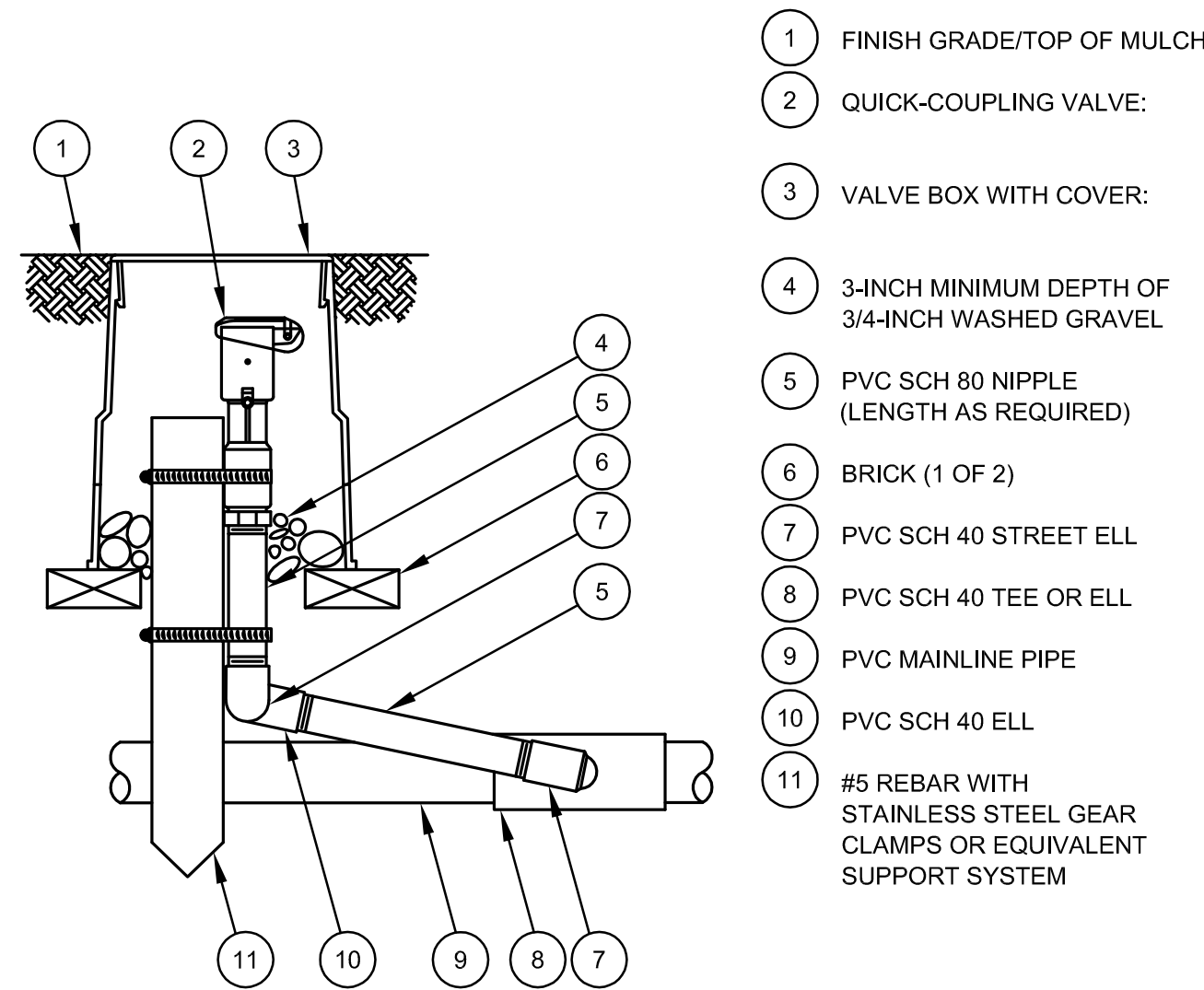


- 1 FINISH GRADE / TOP OF MULCH
- 2 POP-UP SPRAY SPRINKLER
- 3 PVC LATERAL PIPE
- 4 SWING ASSEMBLY
- 5 PVC SCH 40 TEE OR ELL

3 POP-UP SPRAY HEAD INSTALLATION DETAIL N.T.S.



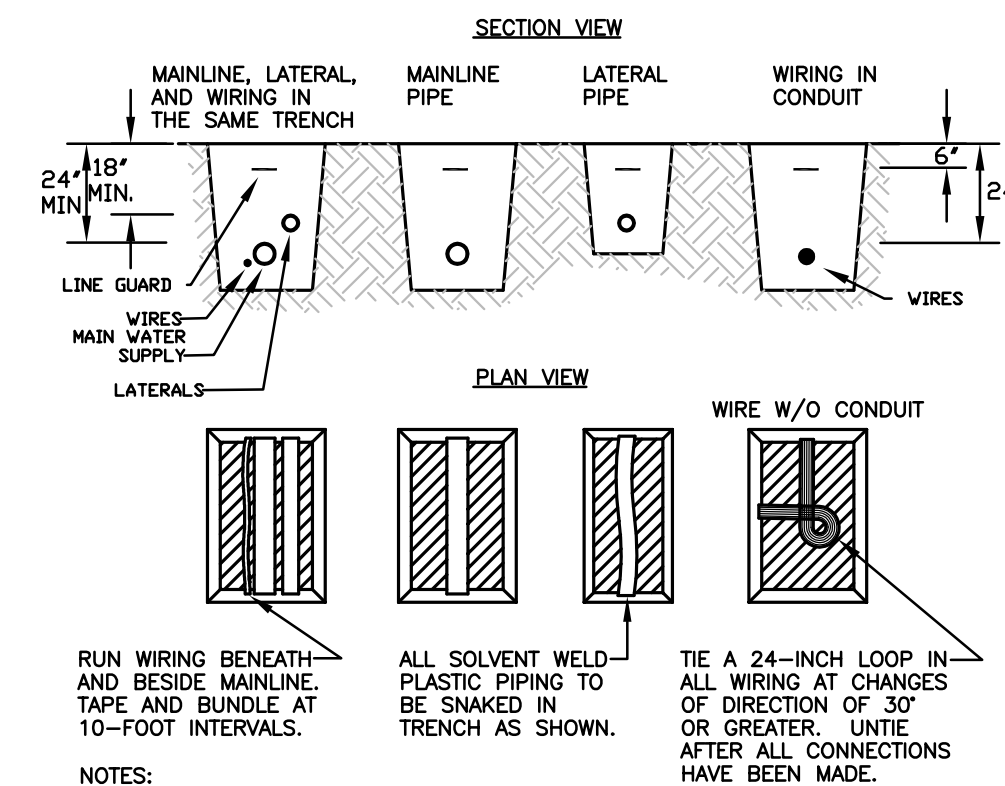
4 ROTOR SPRAY HEAD INSTALLATION DETAIL N.T.S.



- 1 FINISH GRADE/TOP OF MULCH
- 2 QUICK-COUPLING VALVE:
- 3 VALVE BOX WITH COVER:
- 4 3-INCH MINIMUM DEPTH OF 3/4-INCH WASHED GRAVEL
- 5 PVC SCH 80 NIPPLE (LENGTH AS REQUIRED)
- 6 BRICK (1 OF 2)
- 7 PVC SCH 40 STREET ELL
- 8 PVC SCH 40 TEE OR ELL
- 9 PVC MAINLINE PIPE
- 10 PVC SCH 40 ELL
- 11 #5 REBAR WITH STAINLESS STEEL GEAR CLAMPS OR EQUIVALENT SUPPORT SYSTEM

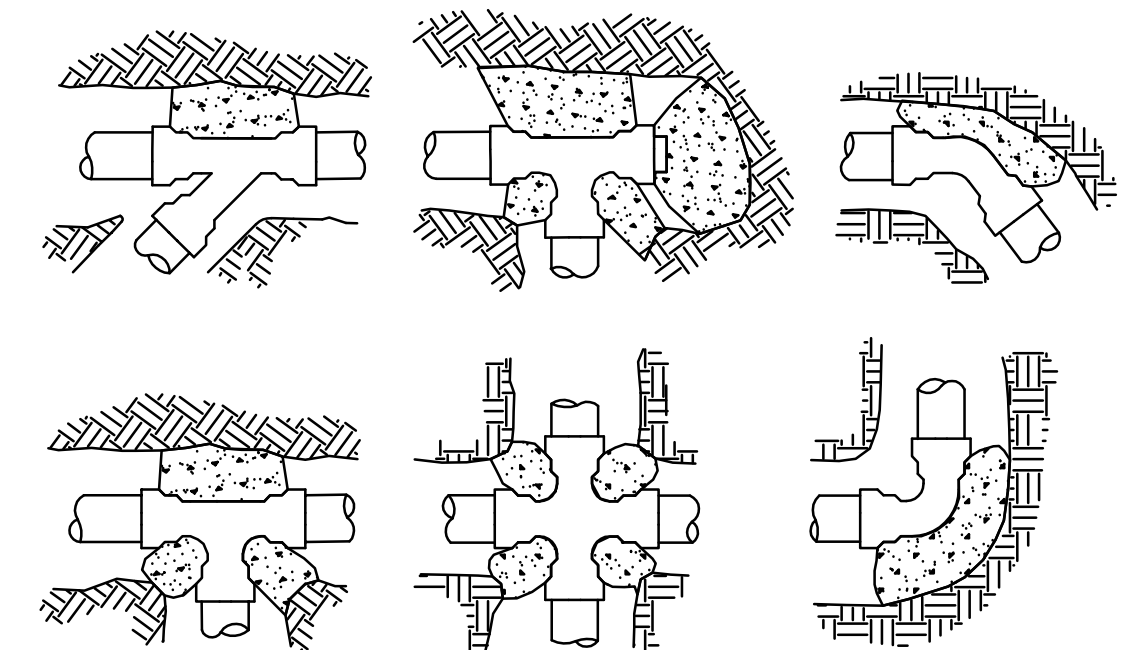
NOTE:
 FURNISH FITTINGS AND PIPING NOMINALLY SIZED IDENTICAL TO NOMINAL QUICK COUPLING VALVE INLET SIZE.

5 QUICK COUPLER INSTALLATION DETAIL N.T.S.



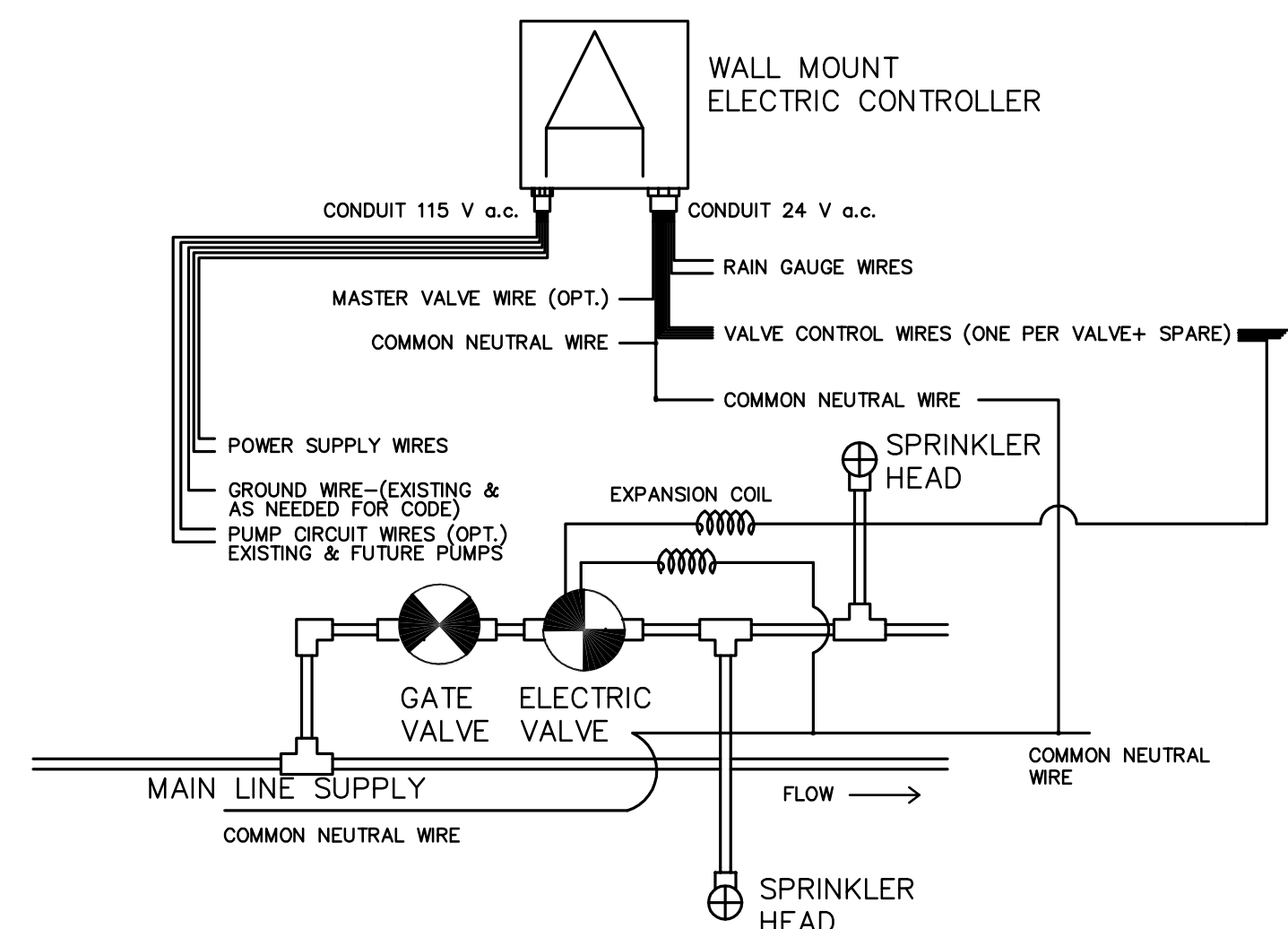
NOTES:
 1. SLEEVES BELOW ALL HARDSCAPE ELEMENTS TO BE SCH 40 PVC TWICE THE DIAMETER OF THE PIPE OR WIRE BUNDLE WITHIN (OR AS SPECIFIED).
 2. PIPE AND WIRE BURIAL DEPTHS MAINS 24", LATERALS-18".

7 PIPE AND WIRE TRENCHING N.T.S.

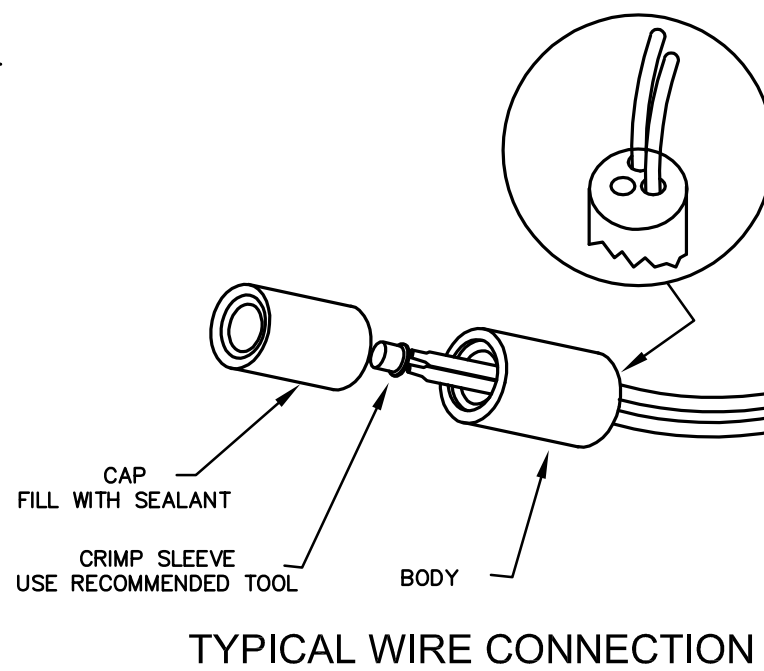


NOTES:
 1. POUR THRUST BLOCKS AGAINST UNDISTURBED MATERIAL. WHERE TRENCH WALL HAS BEEN DISTURBED, EXCAVATE LOOSE MATERIAL AND EXTEND THRUST BLOCK TO UNDISTURBED MATERIAL. NO JOINTS SHALL BE COVERED WITH CONCRETE.
 2. ON BENDS AND TEES, EXTEND THRUST BLOCKS FULL LENGTH OF FITTING.
 3. PLACE BOARD IN FRONT OF ALL PLUGS BEFORE POURING THRUST BLOCK.
 4. BLOCKS TO BE USED IN SOILS WITH A MINIMUM BEARING OF 2,000 LBS/SQ. FT.
 5. ONLY ACCEPTABLE MATERIAL SHALL BE USED FOR BACKFILLING.
 6. CONCRETE SHALL BE CLASS 'C'.
 7. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

8 THRUST BLOCKS DETAIL N.T.S.



6 DIAGRAM - ELECTRIC CONTROLLER WIRING CONNECTION N.T.S.



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DESIGN	S. BARBER					
DR	S. BARBER					
CHK	S. BARBER					
APVD	S. BARBER	NO.	DATE	REVISION	BY	APVD

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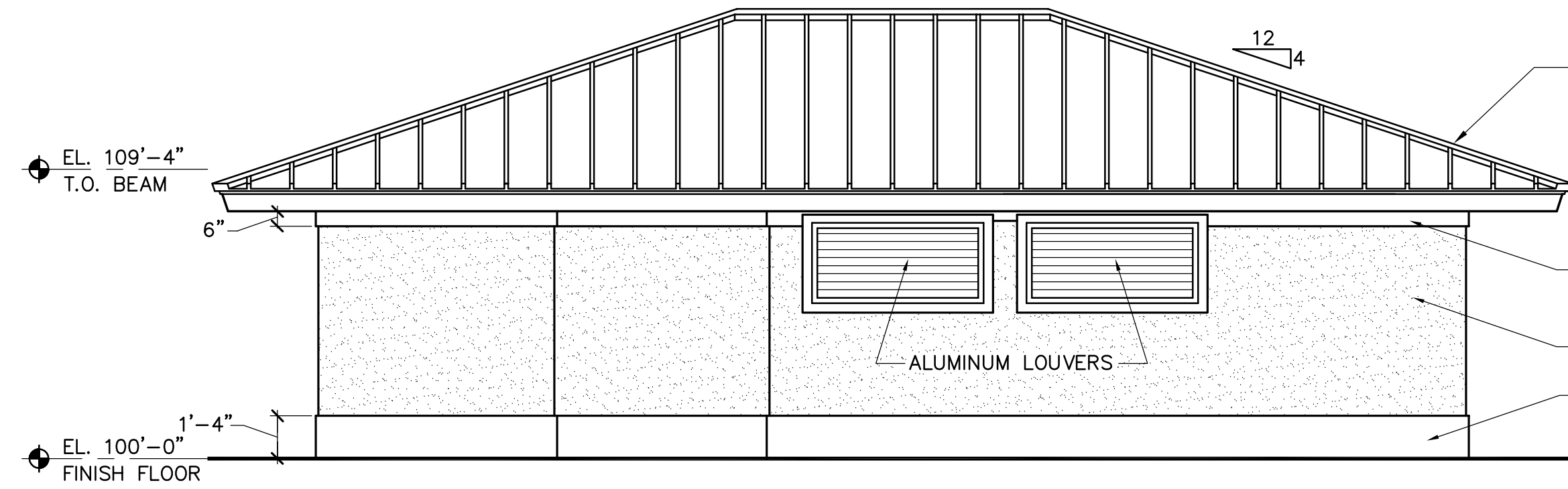
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 PALM BEACH COUNTY, FLORIDA

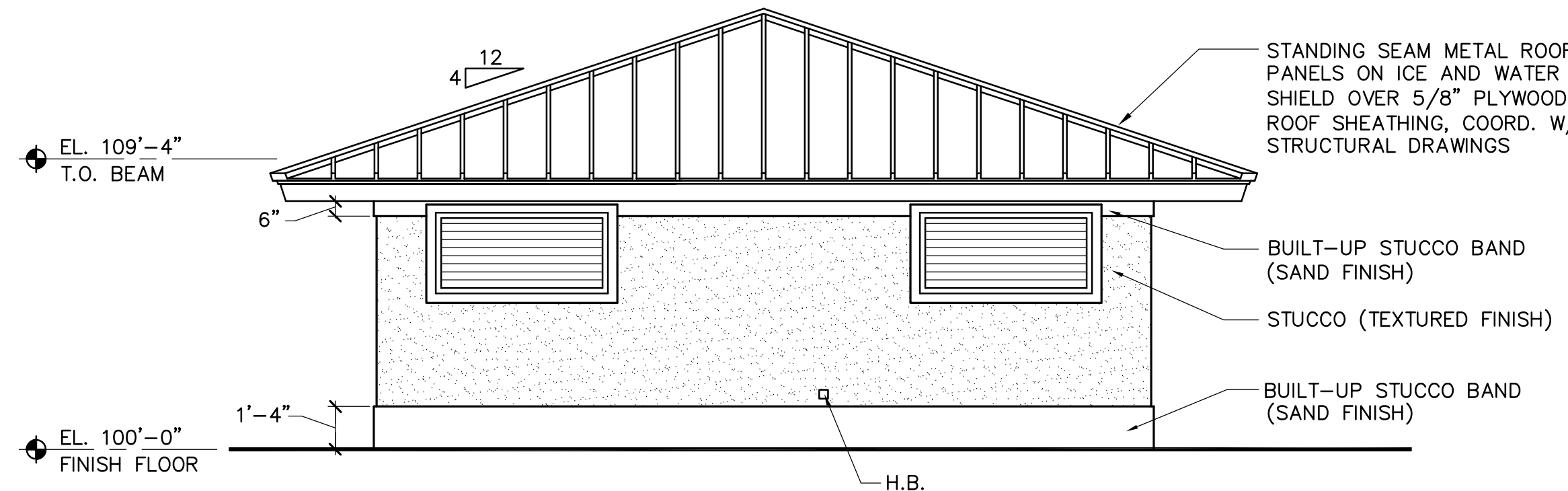
LANDSCAPE
 IRRIGATION DETAILS

SHEET	34 OF 51
DWG	103
DATE	NOVEMBER 2016
PROJ	409534

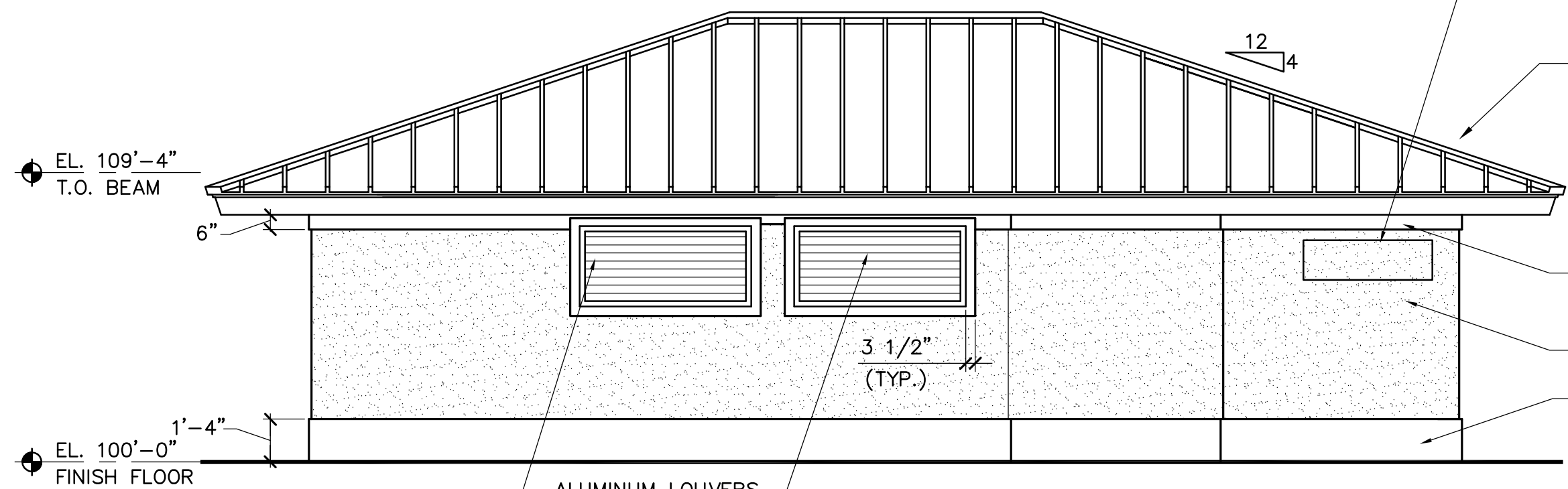




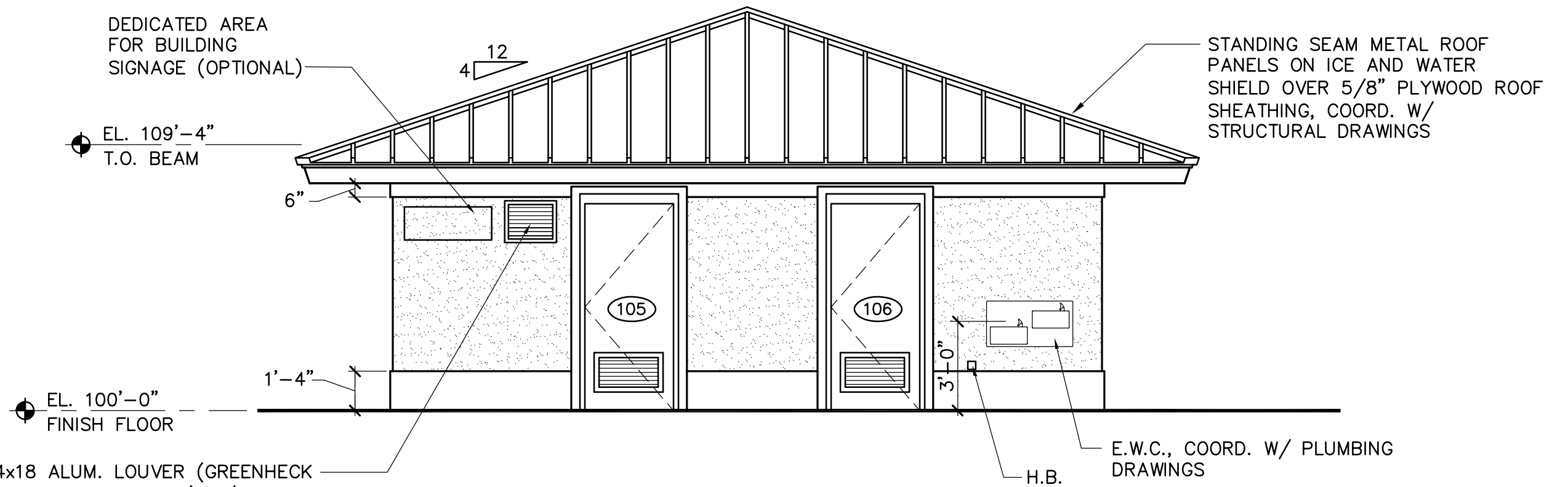
1 BUILDING ELEVATION
AR1
1/4" = 1'-0"



2 BUILDING ELEVATION
AR1
1/4" = 1'-0"



3 BUILDING ELEVATION
AR1
1/4" = 1'-0"

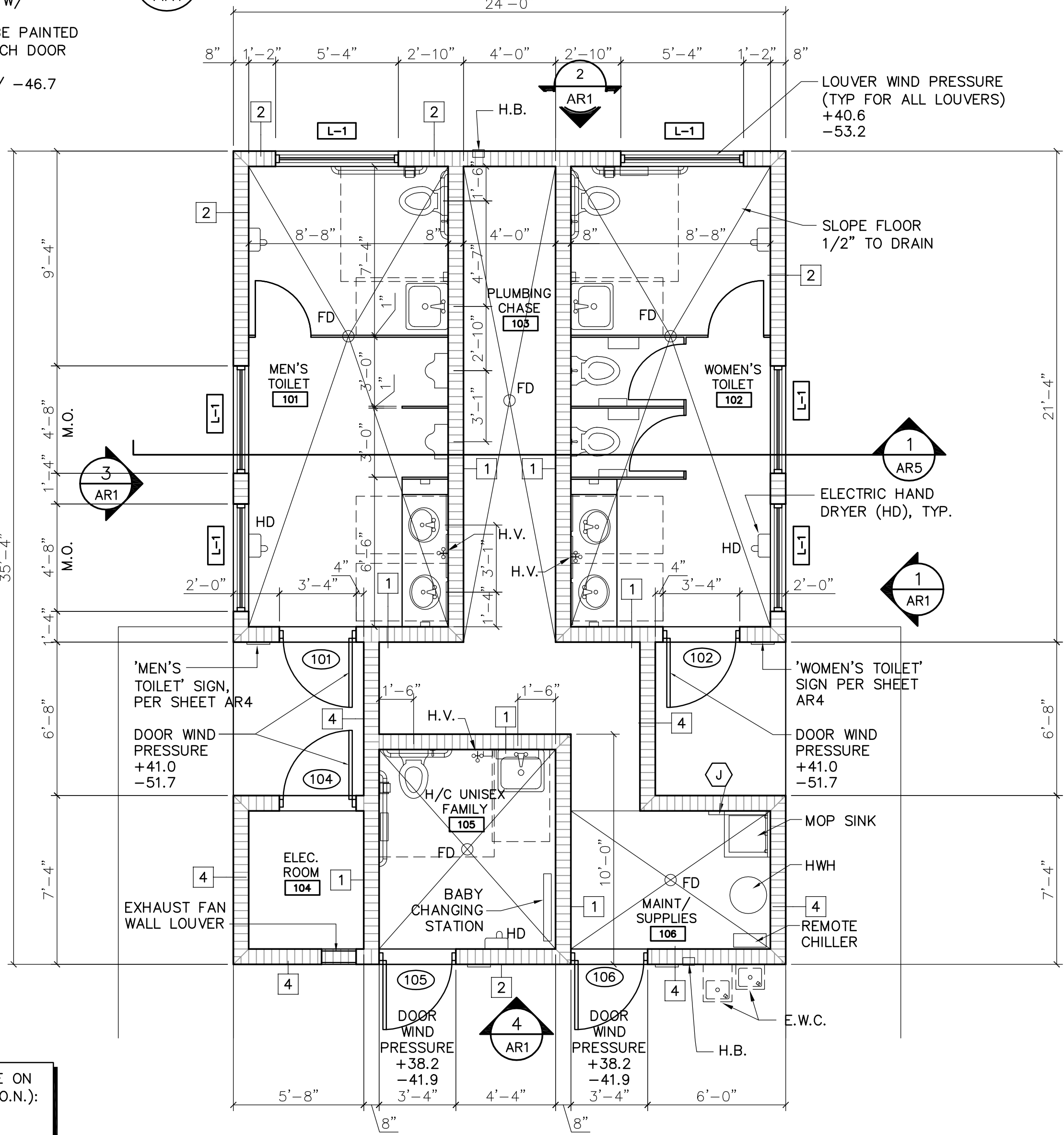


4 BUILDING ELEVATION
AR1

14x18 ALUM. LOUVER (GREENHECK EHH-601D OR EQUAL) W/ INTEGRAL EXHAUST FAN (GREENHECK SE1-8-440-VG OR EQUAL). FAN SHALL BE CONTROLLED BY THERMOSTAT (24V) COORD. W/ ELECTRICAL. LOUVER AND FAN SHALL BE PAINTED (BACKED ENAMEL) TO MATCH DOOR FRAMES.
WIND PRESSURES: +42.7 / -46.7

CODE ANALYSIS:

APPLICABLE CODE: FLORIDA BUILDING CODE, 2014.
OCCUPANCY GROUP CLASSIFICATION: UTILITY (U)
CONSTRUCTION TYPE (FBC 602 / T503): VB
ALLOWABLE AREA (FBC TABLE 503): 5,500 SF
ACTUAL FLOOR AREA: 848 SF
AUTOMATIC SPRINKLER SYSTEM (FBC CH. 9): NO
OCCUPANT LOAD (PER FBC TABLE 1004.1.2): LOCKER ROOMS @ 50 SF / OCC = 17 OCC'S



5 FLOOR PLAN
AR1
1/4" = 1'-0"

CONSTRUCTION SET
NOVEMBER 2016

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DR	R. PERE						
CHK	T. ORLOWSKI						
APVD	A. SLOCOMBE	NO.	DATE	REVISION	BY	APVD	

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OKEEHEELEE PARK SOUTH
BOAT LAUNCH AND RESTROOM FACILITY
PALM BEACH COUNTY, FLORIDA

ARCHITECTURAL
RESTROOM BUILDING
ELEVATIONS, FLOOR PLAN

SHEET 35 OF 51
DWG AR 1
DATE NOVEMBER 2016
PROJ 409534

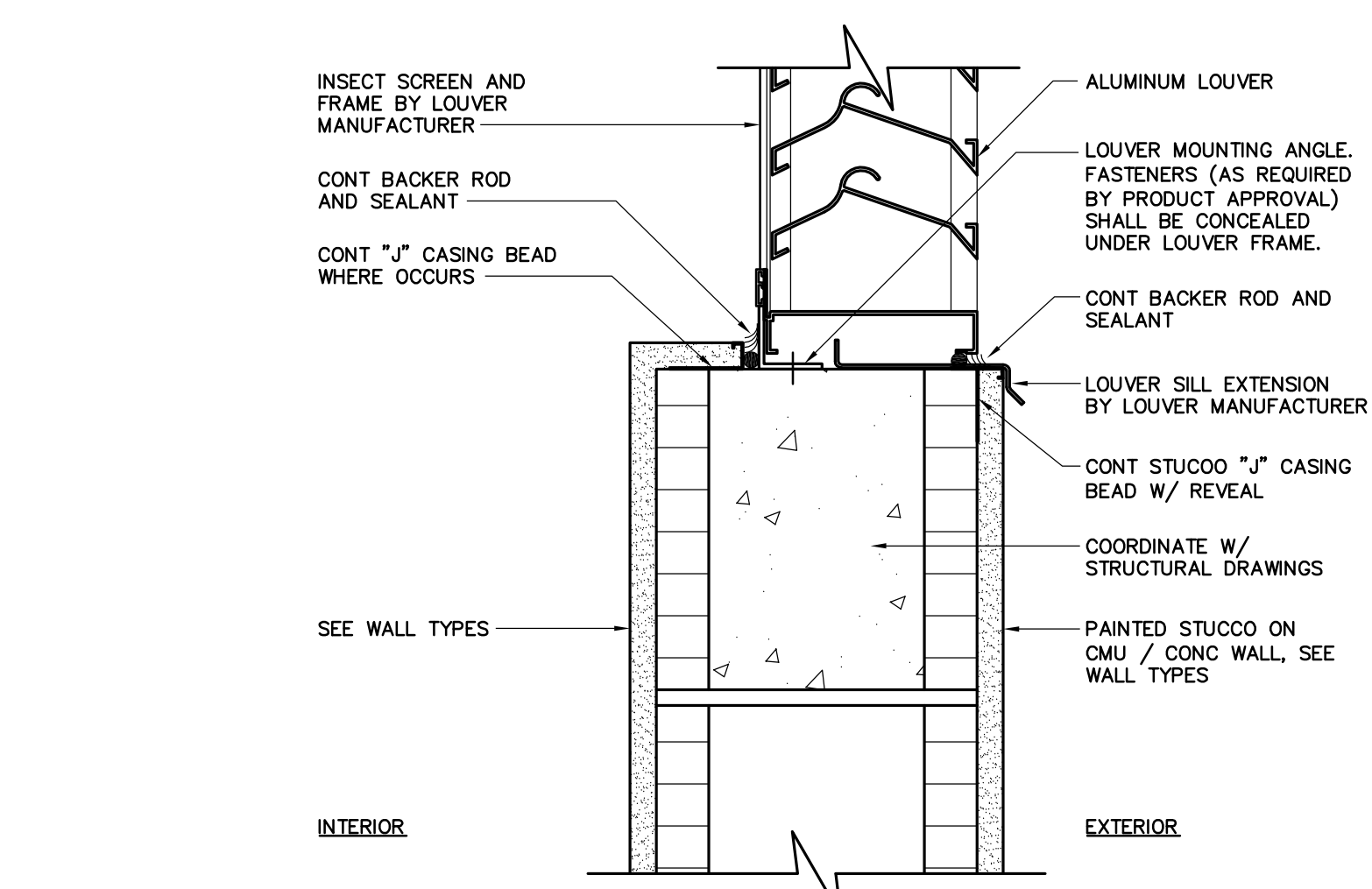
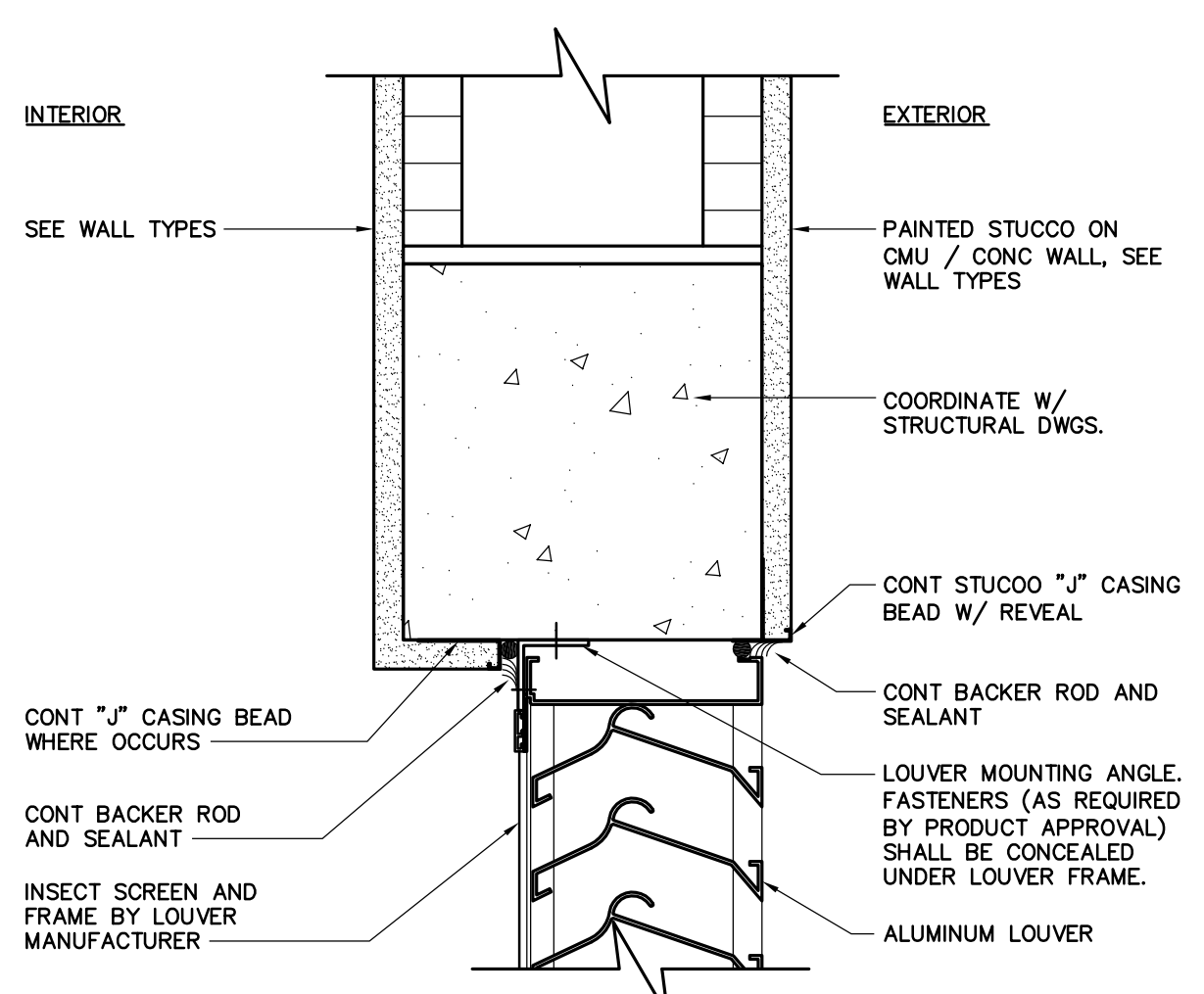
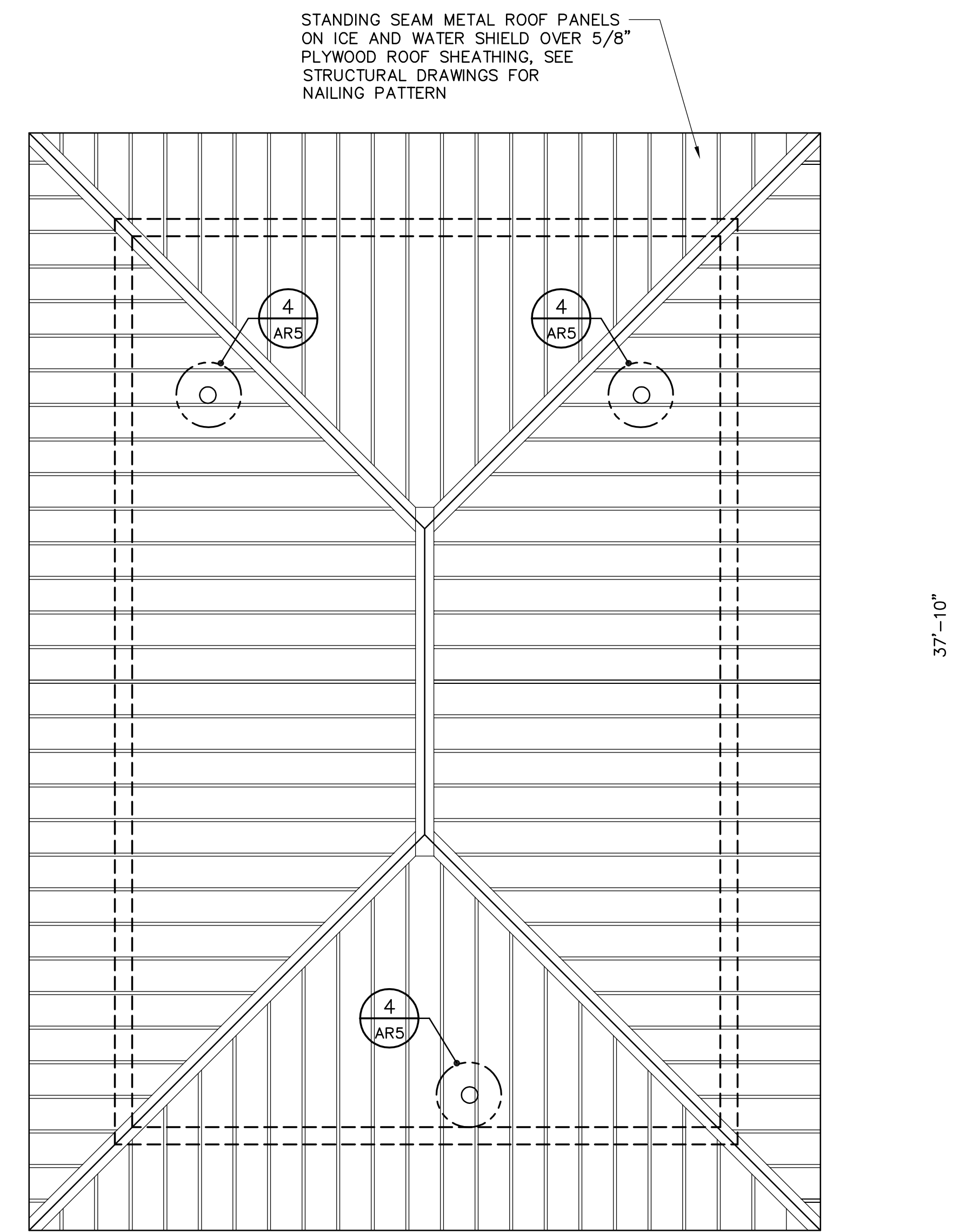
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ROOM FINISH SCHEDULE											
SPACE	NAME	FLOOR	WALLS				CEILING		BASE	TRIM	REMARKS
			REAR	RIGHT	FRONT	LEFT	FINISH	HEIGHT			
101	MEN'S TOILET AND ALCOVE	S.T.F.C. D.Q.	S.C.C.P. S.G.E.	S.C.C.P. S.G.E.	S.C.C.P. S.G.E.	S.C.C.P. S.G.E.	C.P. F.E.	9'-4"	D.Q. STEEL S.G.E.	INTEGRAL COVE, 4" A.F.F MOLDING	
102	WOMEN'S TOILETS AND ALCOVE	S.T.F.C. D.Q.	S.C.C.P. S.G.E.	S.C.C.P. S.G.E.	S.C.C.P. S.G.E.	S.C.C.P. S.G.E.	C.P. F.E.	9'-4"	D.Q. STEEL S.G.E.	INTEGRAL COVE, 4" A.F.F MOLDING	
103	PLUMBING CHASE	S.T.F.C. S.C.	E.M. S.G.E.	E.M. S.G.E.	E.M. S.G.E.	E.M. S.G.E.	-	-	N/A STEEL S.G.E.	-	
104	ELECTRICAL ROOM	S.T.F.C. S.C.	E.M. S.G.E.	E.M. S.G.E.	E.M. S.G.E.	E.M. S.G.E.	C.P. F.E.	9'-4"	N/A STEEL S.G.E.	-	
105	H/C FAMILY STATION	S.T.F.C. D.Q.	S.C.C.P. S.G.E.	S.C.C.P. S.G.E.	S.C.C.P. S.G.E.	S.C.C.P. S.G.E.	C.P. F.E.	9'-4"	D.Q. STEEL S.G.E.	INTEGRAL COVE, 4" A.F.F MOLDING	
106	MAINT/SUPPLIES	S.T.F.C. S.C.	E.M. S.G.E.	E.M. S.G.E.	E.M. S.G.E.	E.M. S.G.E.	-	-	N/A STEEL S.G.E.	-	

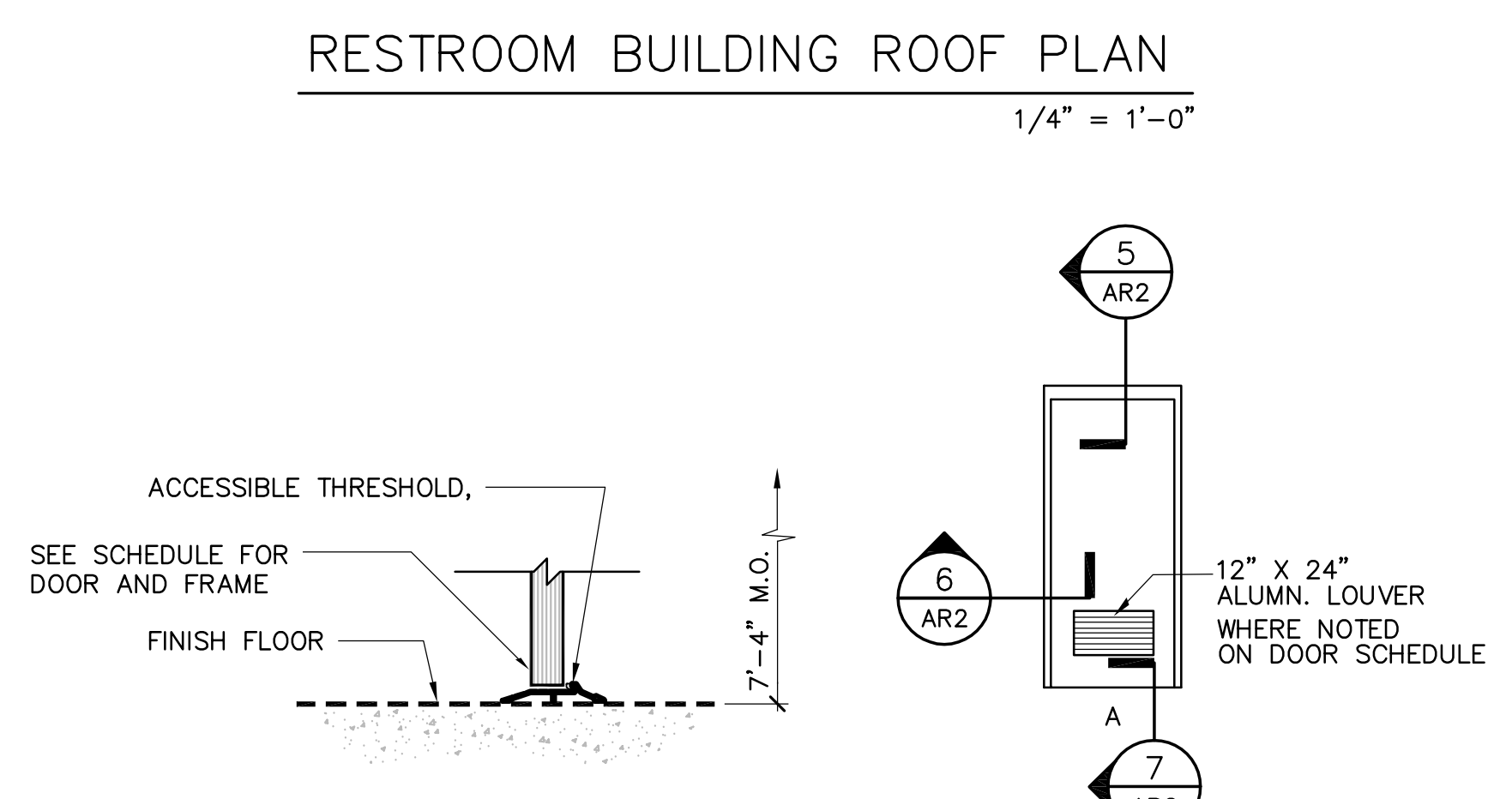
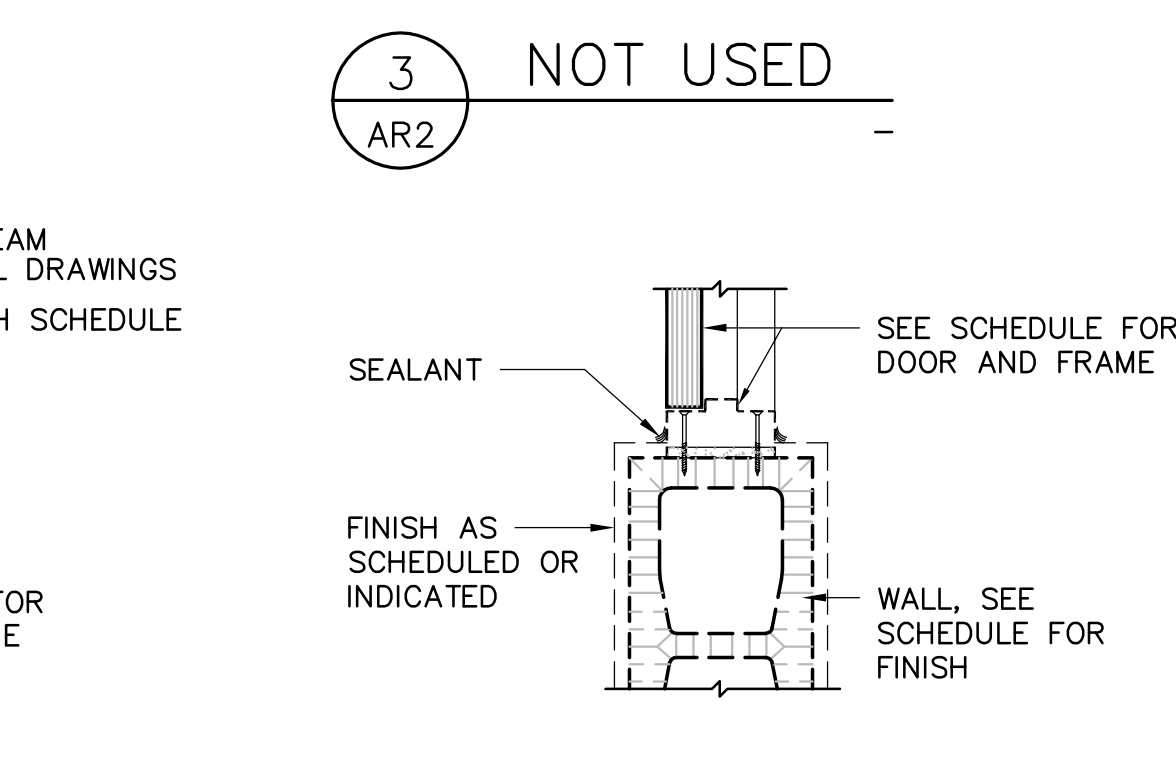
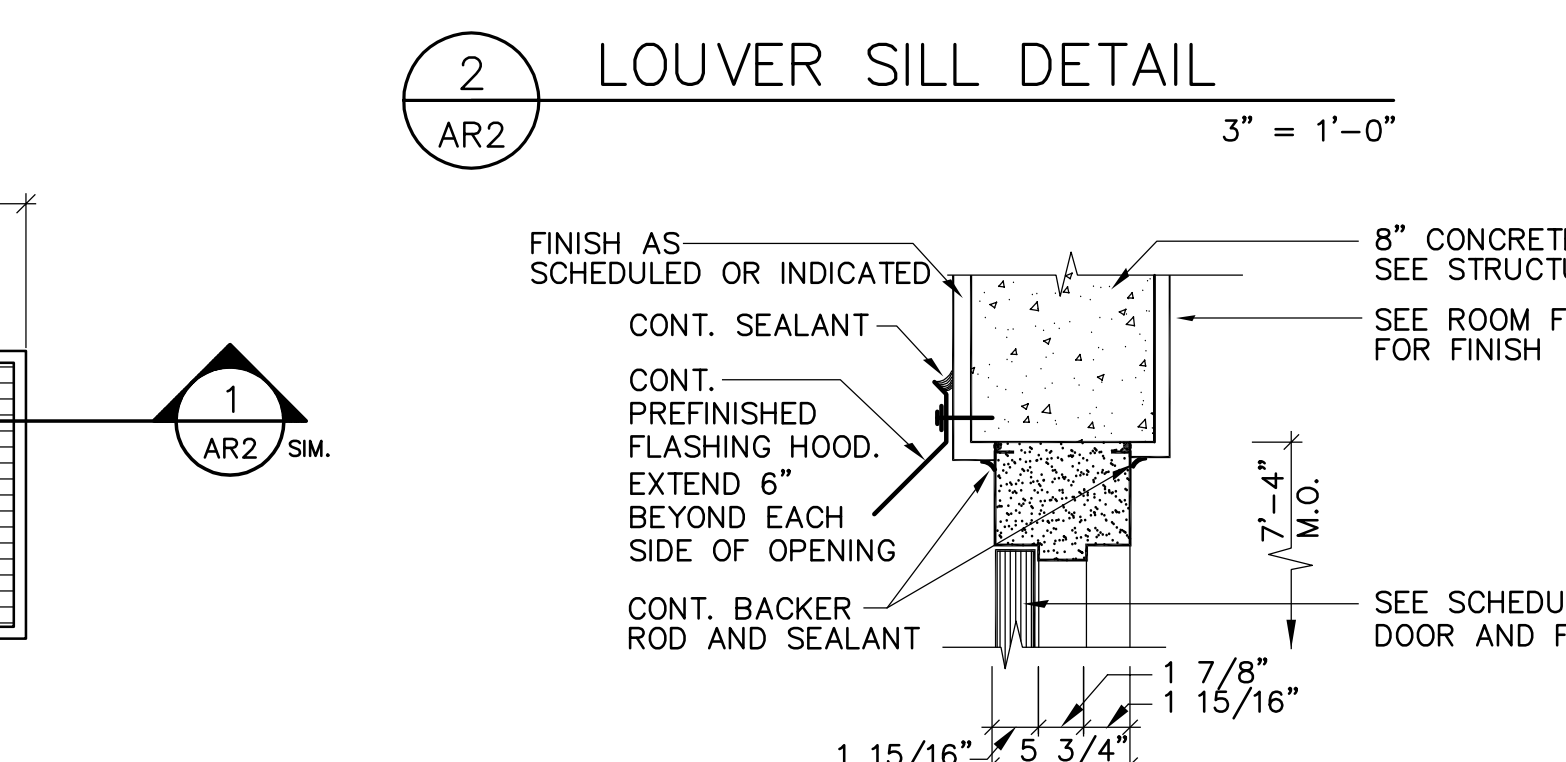
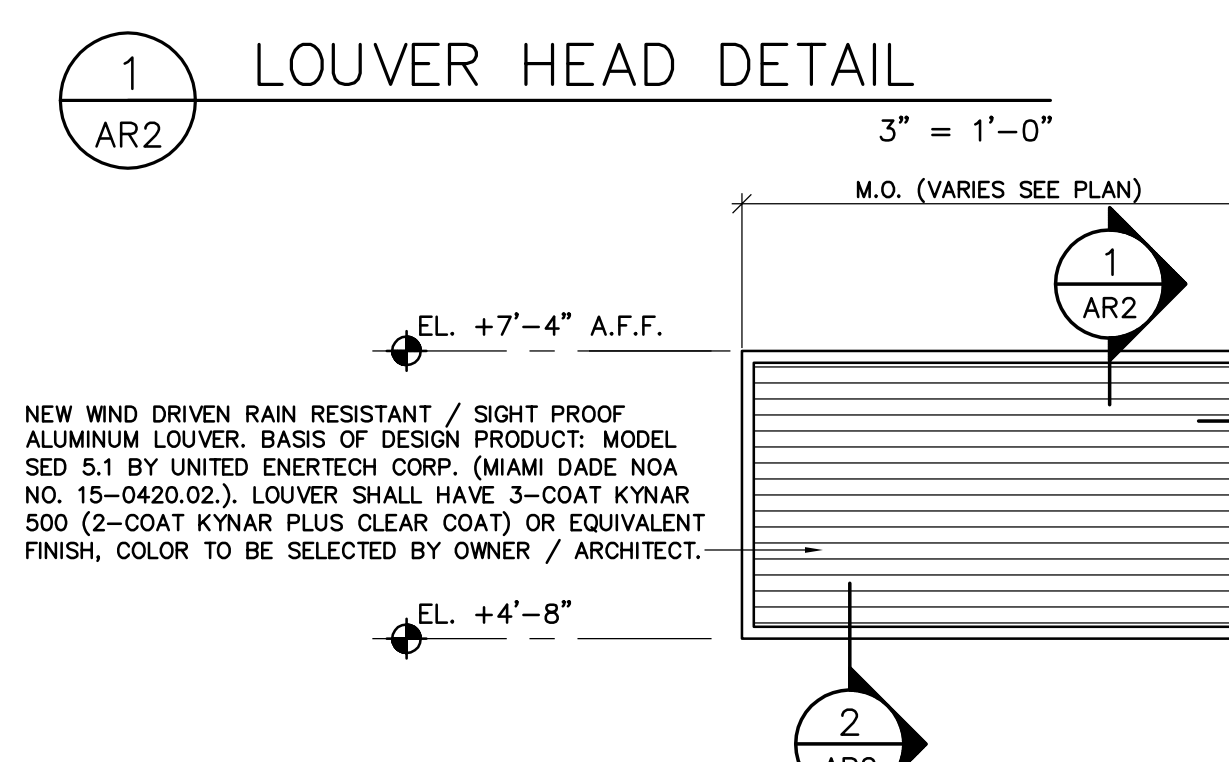
DOOR SCHEDULE											
MARK	TYPE	SIZE			MATERIAL		DETAILS			REMARKS	HARDWARE GROUP
		WIDTH	HEIGHT	THICKNESS	DOOR	FRAME	HEAD	JAMB	SILL		
101	A	3'-0"	7'-0"	1 3/4"	FIBERGLASS	FIBERGLASS	5/AR2	6/AR2	7/AR2	PROVIDE DOOR LOUVER PER DETAIL 8 / AR2	1
102	A	3'-0"	7'-0"	1 3/4"	FIBERGLASS	FIBERGLASS	5/AR2	6/AR2	7/AR2	PROVIDE DOOR LOUVER PER DETAIL 8 / AR2	1
103	-	-	-	-	-	-	-	-	-	NOT USED	-
104	A	3'-0"	7'-0"	1 3/4"	FIBERGLASS	FIBERGLASS	5/AR2	6/AR2	7/AR2	PROVIDE DOOR LOUVER PER DETAIL 8 / AR2	3
105	A	3'-0"	7'-0"	1 3/4"	FIBERGLASS	FIBERGLASS	5/AR2	6/AR2	7/AR2	PROVIDE DOOR LOUVER PER DETAIL 8 / AR2	2
106	A	3'-0"	7'-0"	1 3/4"	FIBERGLASS	FIBERGLASS	5/AR2	6/AR2	7/AR2	PROVIDE DOOR LOUVER PER DETAIL 8 / AR2	3

ROOM FINISH LEGEND	
A.C.B.	ACOUSTICAL CEILING BOARD
ALUM.	ALUMINUM
C.P.	CEMENT PLASTER
C.T.	CERAMIC TILE
E.M.	EXPOSED MASONRY
F.E.	FLAT ENAMEL
G.C.	GLAZED COATING
G.D.	GYPSUM DRYWALL
S.G.E.	SEMI GLOSS ENAMEL
S.T.F.C.	STEEL TROWEL FINISH CONCRETE
S.V.	SHEET VINYL
B.F.C.	BROOM FINISH CONCRETE
S.C.C.P.	SKIM COAT CEMENT PLASTER
V.C.T.	VINYL COMPOSITION TILE
S.C.	STAINED CONCRETE
D.Q.	DUR-A-QUARTZ

NOTES:
 1. ALL FINISH COLORS SHALL BE AS SELECTED BY THE OWNER.
 2. ALL EXTERIOR PAINT COLORS SHALL BE AS SELECTED BY THE OWNER - ALLOW FOR 3 COLORS.



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CONSTRUCTION SET
 NOVEMBER 2016

DSGN	A. SLOCOMBE										
DR	R. PERE										
CHK	J CASEY LONG										
APVD	A. SLOCOMBE	NO.	DATE	REVISION	BY	APVD					

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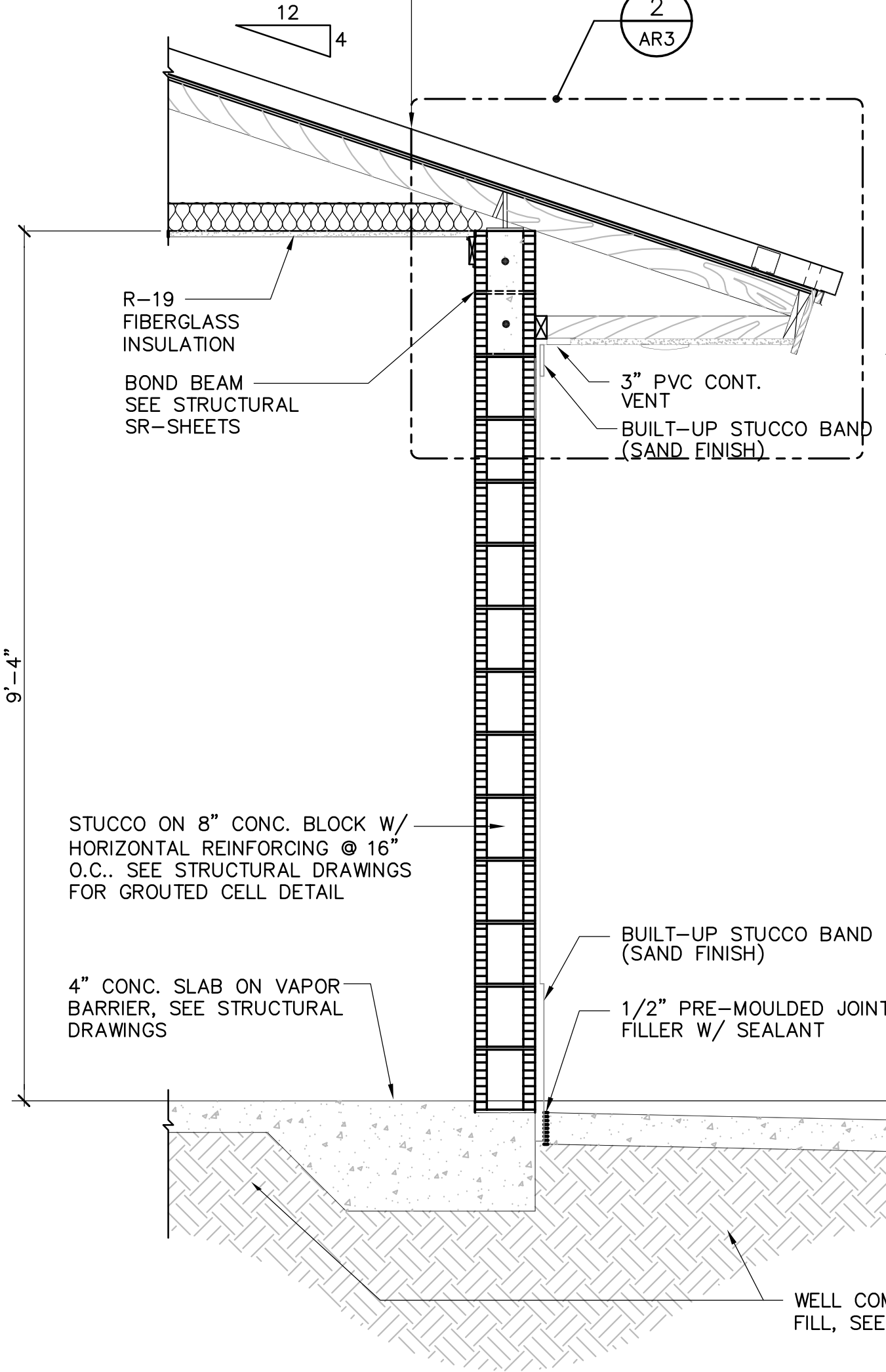
OKEEHEELEE PARK SOUTH
 BOAT LAUNCH AND RESTROOM FACILITY
 PALM BEACH COUNTY, FLORIDA

ARCHITECTURAL
 RESTROOM BUILDING
 SCHEDULES, DETAILS

SHEET	36 OF 51
DWG	AR 2
DATE	NOVEMBER 2016
PROJ	409534

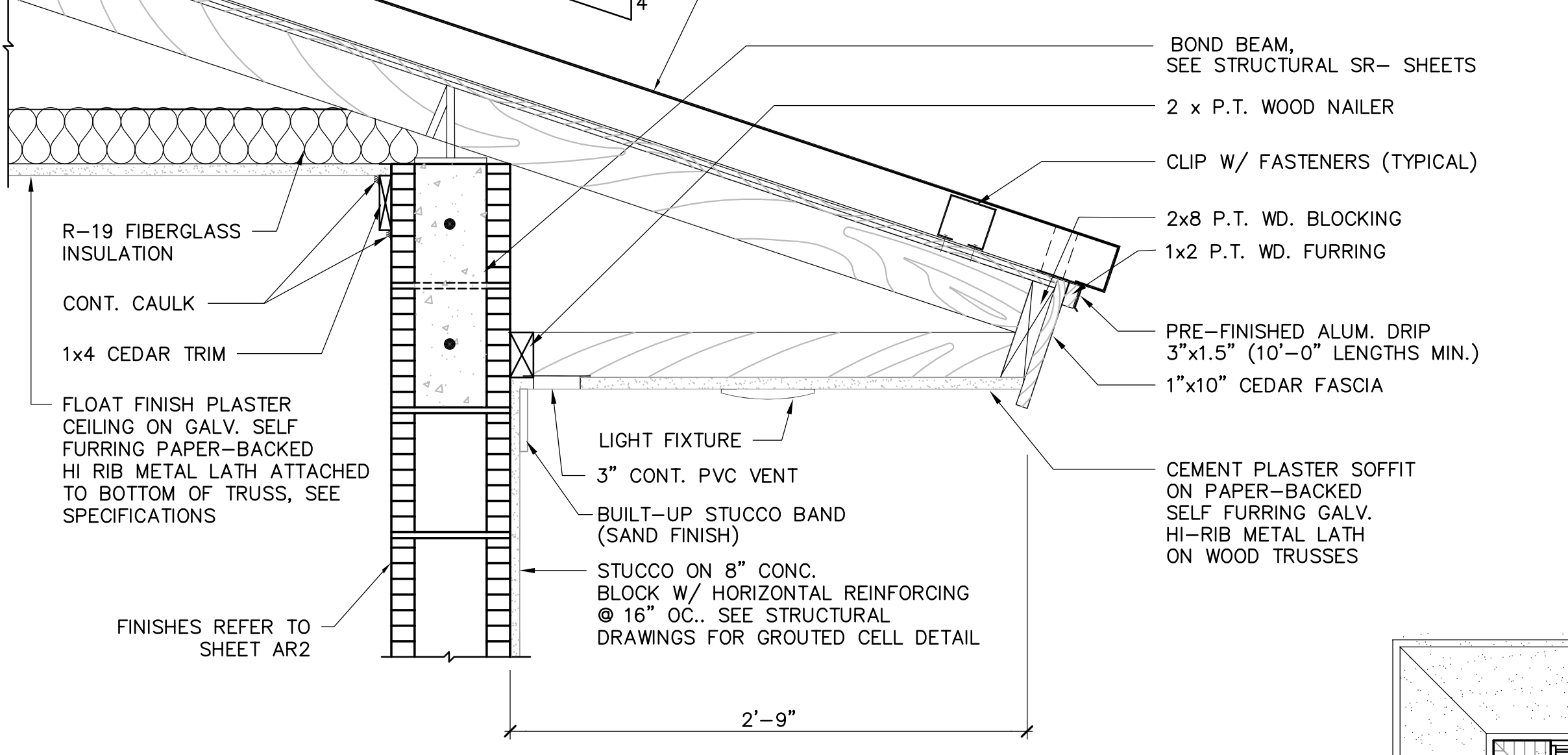
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STANDING SEAM METAL ROOF
PANELS ON ICE AND WATER SHIELD
OVER 5/8" PLYWOOD ROOF SHEATHING,
COORD. W/ STRUCTURAL DRAWINGS

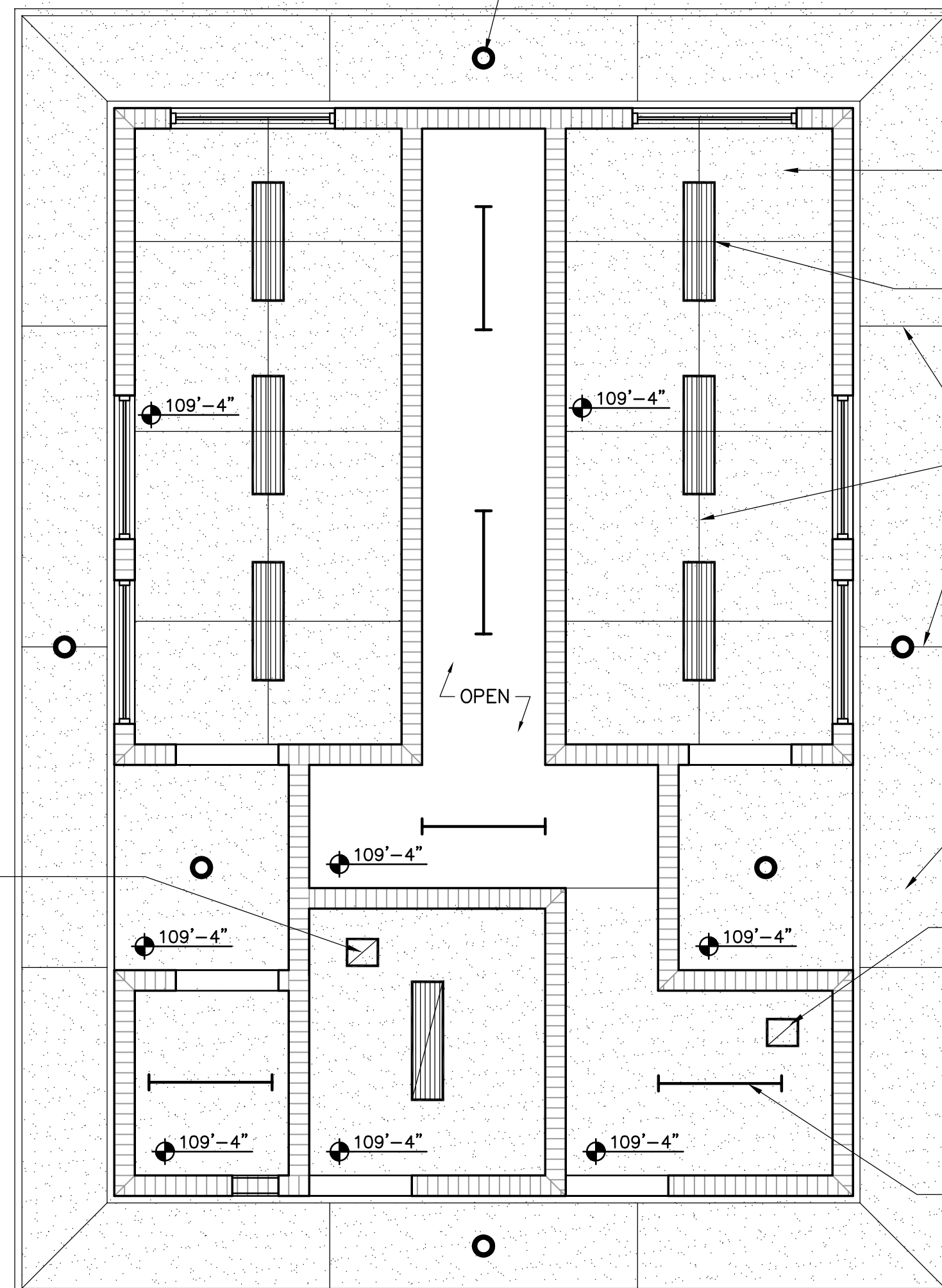


1 WALL SECTION
3/4" = 1'-0"

STANDING SEAM METAL ROOF
PANELS ON ICE AND WATER SHIELD
OVER 5/8" PLYWOOD ROOF SHEATHING,
COORD. W/ STRUCTURAL DRAWINGS



2 WALL SECTION
1-1/2" = 1'-0"



REFLECTED CEILING PLAN
1/4" = 1'-0"

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DR	R. PERE						
CHK	J CASEY LONG						
APVD	A. SLOCOMBE	NO.	DATE	REVISION	BY	APVD	

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EB 0000072 AA C000656 LC 26000188

OKEEHEELEE PARK SOUTH
BOAT LAUNCH AND RESTROOM FACILITY
PALM BEACH COUNTY, FLORIDA

ARCHITECTURAL
RESTROOM BUILDING
SECTIONS, REFLECTED CEILING PLAN

SHEET	37 OF 51
DWG	AR 3
DATE	NOVEMBER 2016
PROJ	409534

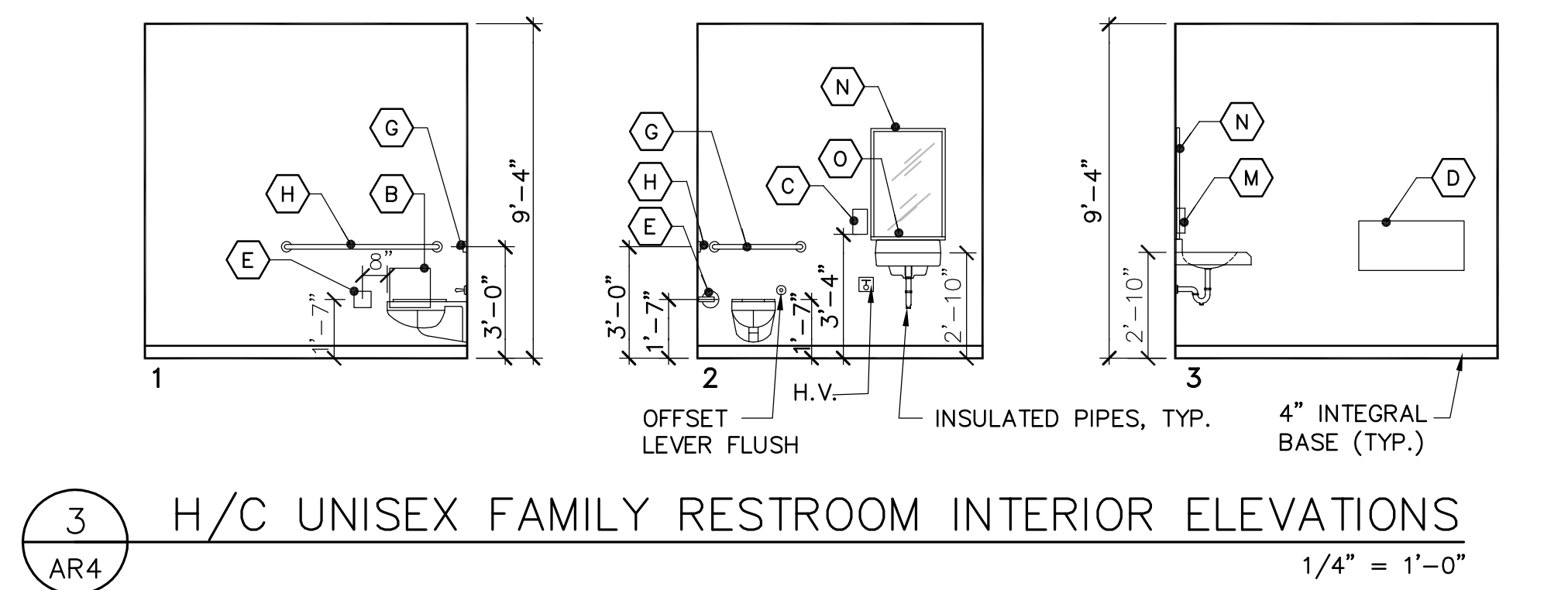
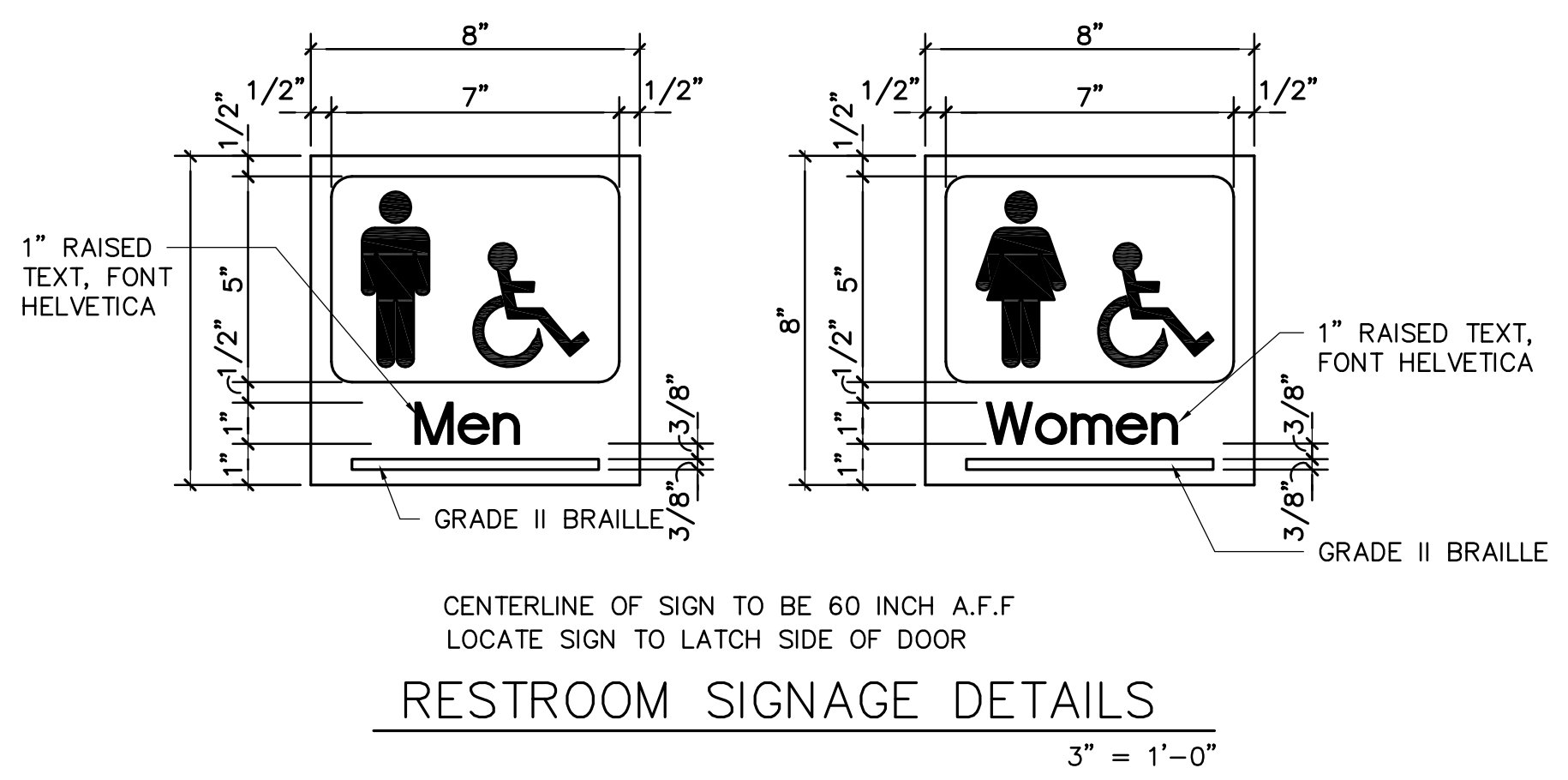
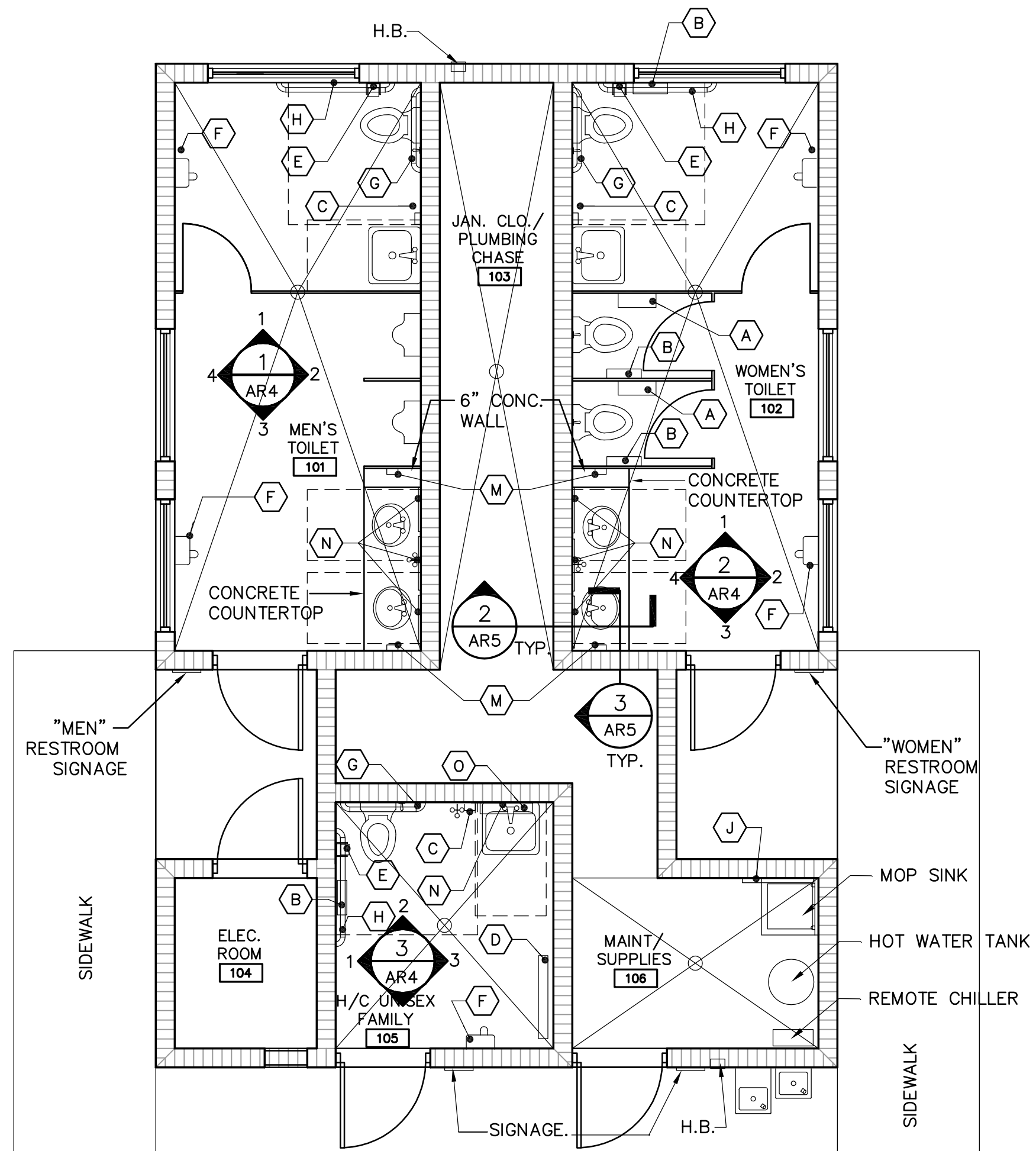
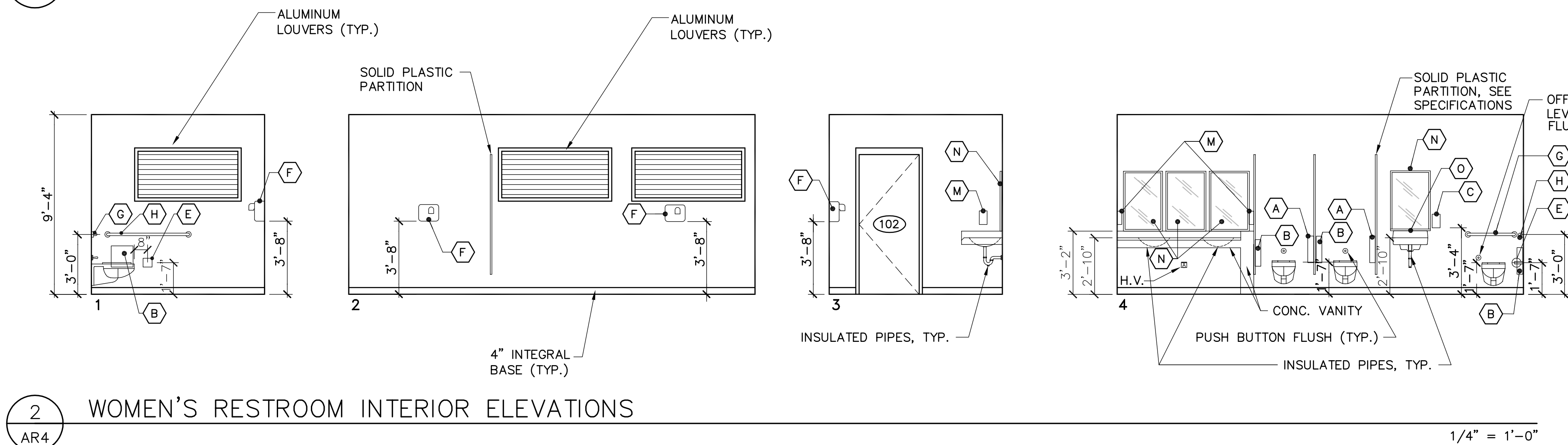
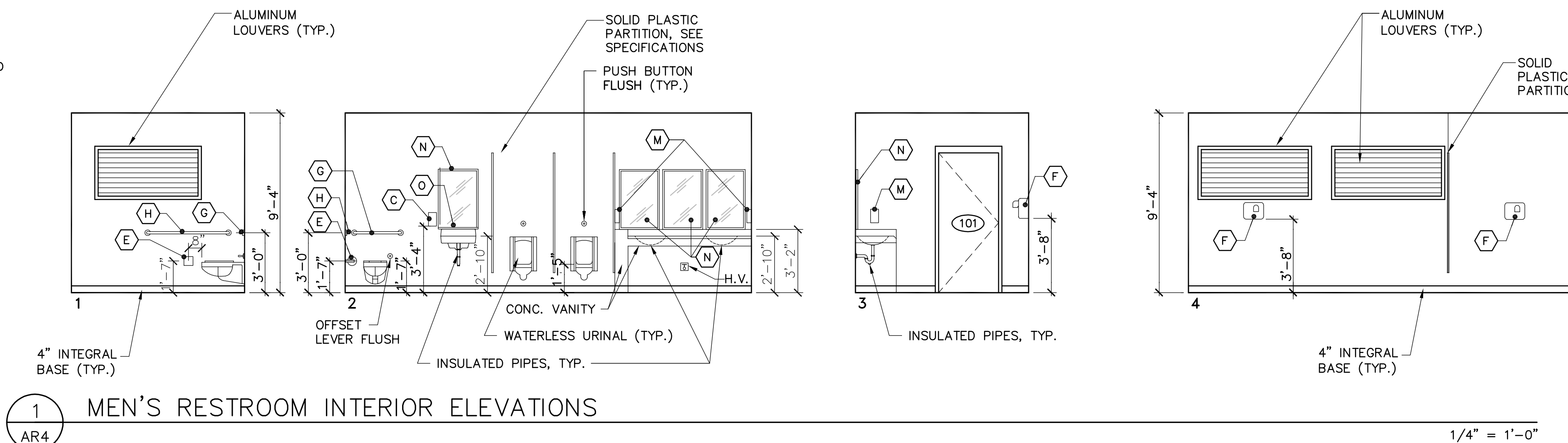
Plotted: November 17, 2016

AR-3.dwg

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ACCESSORY LEGEND	
MARK	ITEMS
(A)	TOILET TISSUE DISPENSER
(B)	SANITARY NAPKIN DISPOSAL
(C)	SOAP DISPENSER @ ACCESSIBLE TOILET
(D)	BABY CHANGING STATION (21"H x 37"L x 4"D) - MTD. @ 31" AFF.
(E)	TOILET TISSUE DISPENSER @ ACCESSIBLE TOILET
(F)	ELECTRICAL HAND DRYER
(G)	36" HORIZONTAL GRAB BAR
(H)	42" HORIZONTAL GRAB BAR
(I)	NOT USED
(J)	MOP AND BROOM HOLDER
(K)	NOT USED
(L)	NOT USED
(M)	SOAP DISPENSER
(N)	24" X 36" STAINLESS STEEL MIRROR
(O)	STAINLESS STEEL SHELF
(P)	NOT USED

- NOTES:
- SEE SPECIFICATIONS FOR MANUFACTURER'S NUMBERS
 - THE FOLLOWING ITEMS WILL BE PROVIDED AND INSTALLED BY THE OWNER (PBC PARKS):
 - TOILET TISSUE DISPENSERS
 - SOAP DISPENSERS
 - SEAT COVER DISPENSERS
 - SANITARY NAPKIN DISPOSALS



CONSTRUCTION SET
NOVEMBER 2016

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NO.	DATE	REVISION

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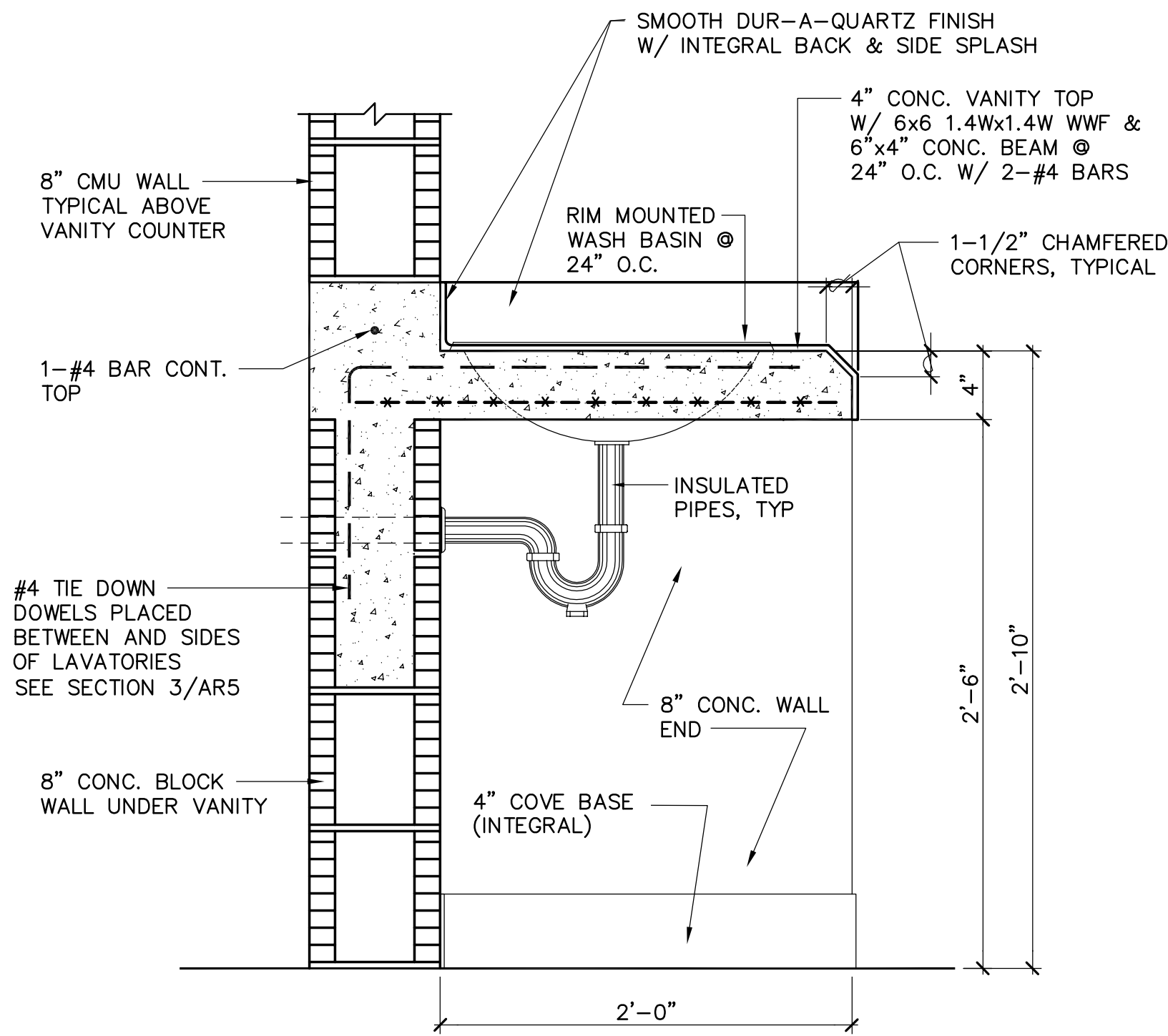
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3001 PGA BOULEVARD, SUITE 300
PALM BEACH GARDENS, FLORIDA 33410
EB 0000072 AA C000656 LC 26000188

OKEEHEELEE PARK SOUTH
BOAT LAUNCH AND RESTROOM FACILITY
PALM BEACH COUNTY, FLORIDA

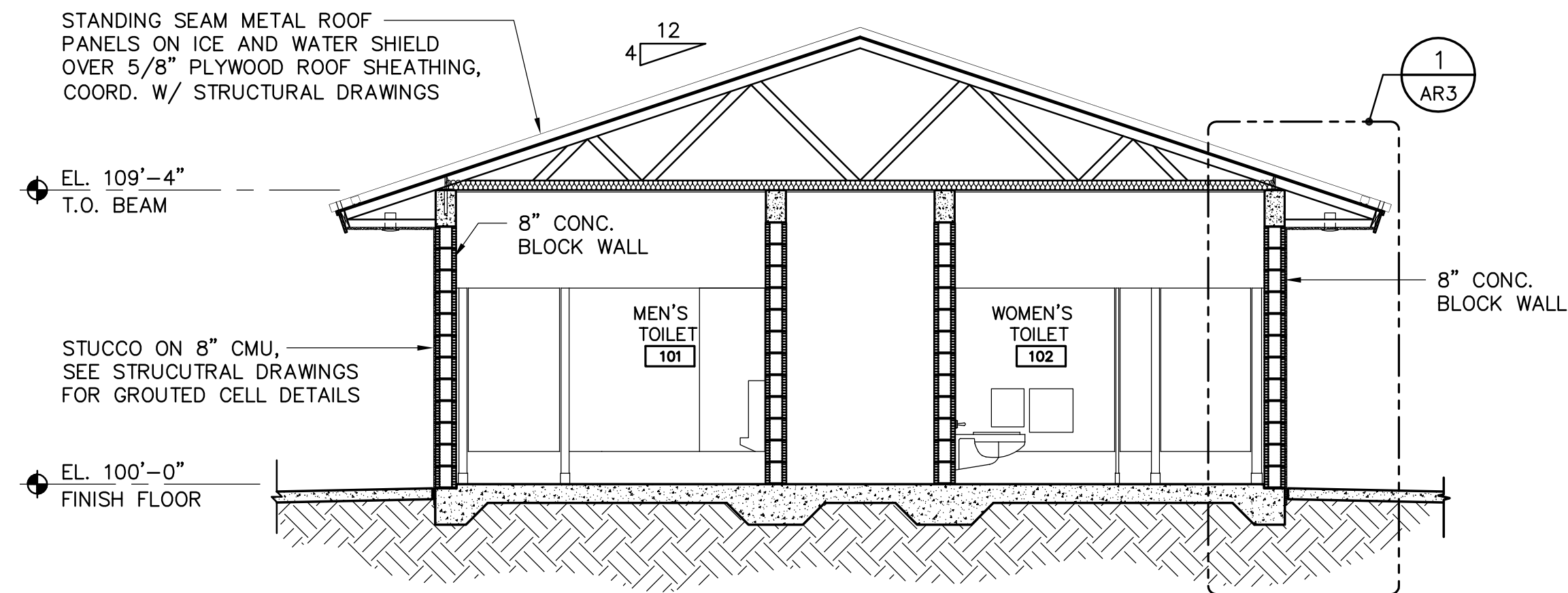
ARCHITECTURAL
RESTROOM BUILDING
PLAN DETAIL, INTERIOR ELEVATIONS

SHEET 38 OF 51
DWG AR 4
DATE NOVEMBER 2016
PROJ 409534

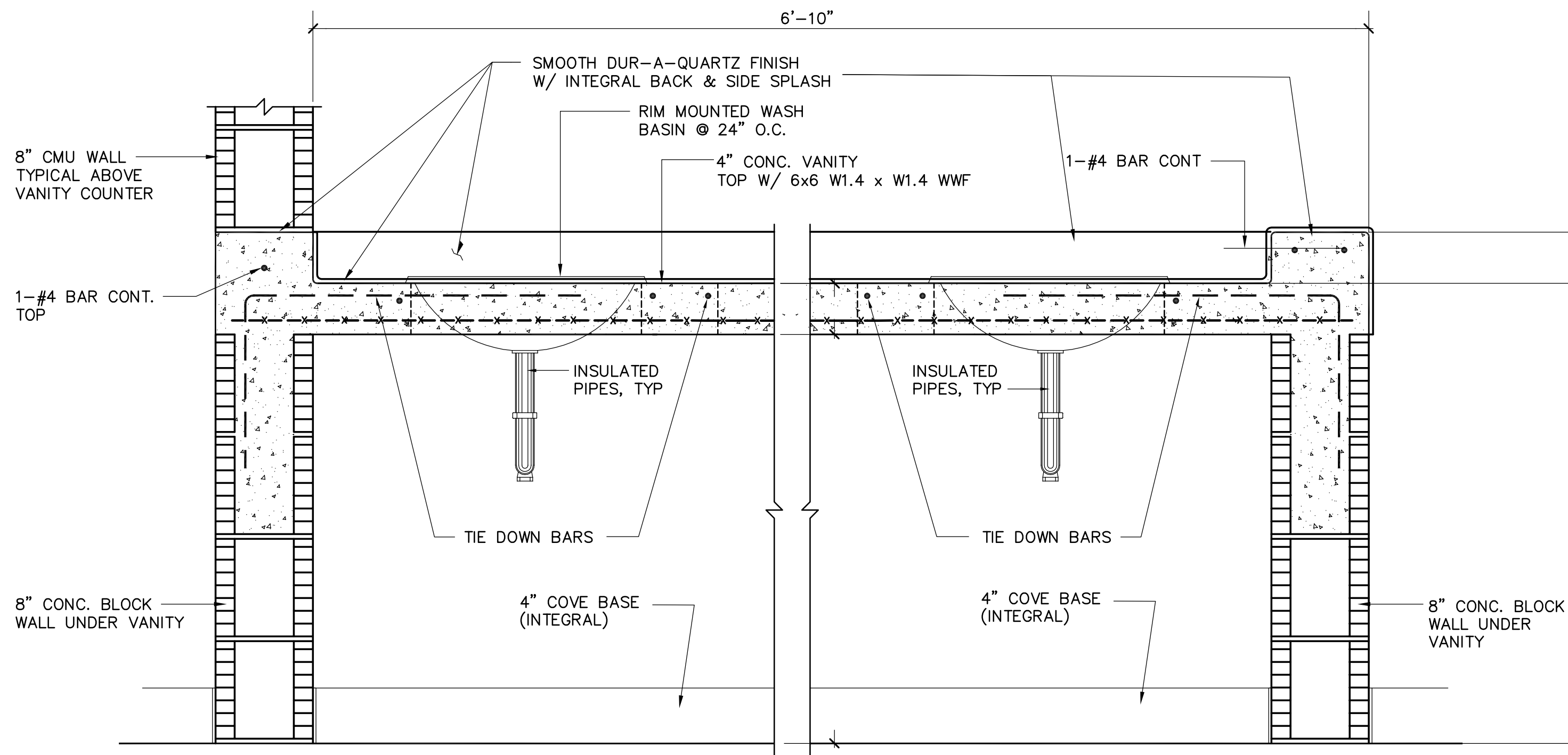
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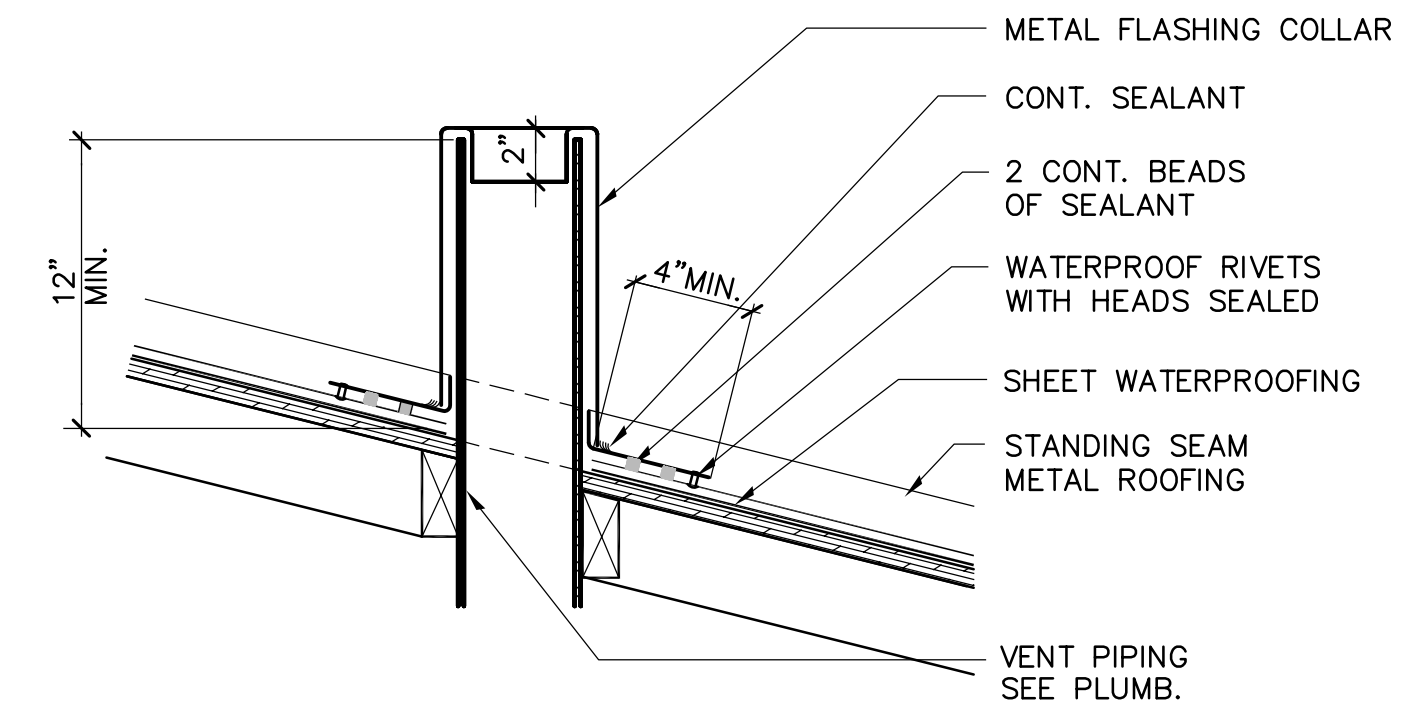
2 VANITY DETAIL - SIDE ELEVATION
AR5 1-1/2" = 1'-0"



1 BUILDING SECTION
AR5 1/4" = 1'-0"



3 VANITY DETAIL - FRONT ELEVATION
AR5 1-1/2" = 1'-0"



4 VENT THRU ROOF DETAIL
AR5 1-1/2" = 1'-0"

CONSTRUCTION SET
NOVEMBER 2016

DSGN	A. SLOCOMBE						
DR	R. PERE						
CHK	T. ORLOWSKI						
APVD	A. SLOCOMBE	NO.	DATE	REVISION	BY	APVD	

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OKEEHOLEE PARK SOUTH
BOAT LAUNCH AND RESTROOM FACILITY
PALM BEACH COUNTY, FLORIDA

ARCHITECTURAL
RESTROOM BUILDING
VANITY DETAILS, BUILDING SECTION

SHEET	39 OF 51
DWG	AR 5
DATE	NOVEMBER 2016
PROJ	409534

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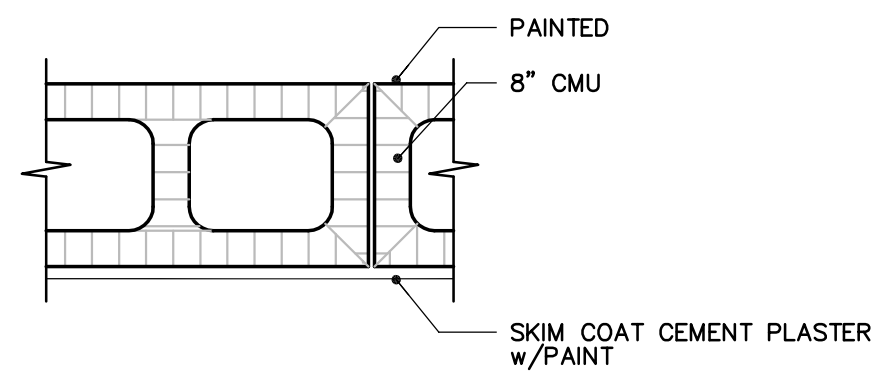
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AR-5.dwg

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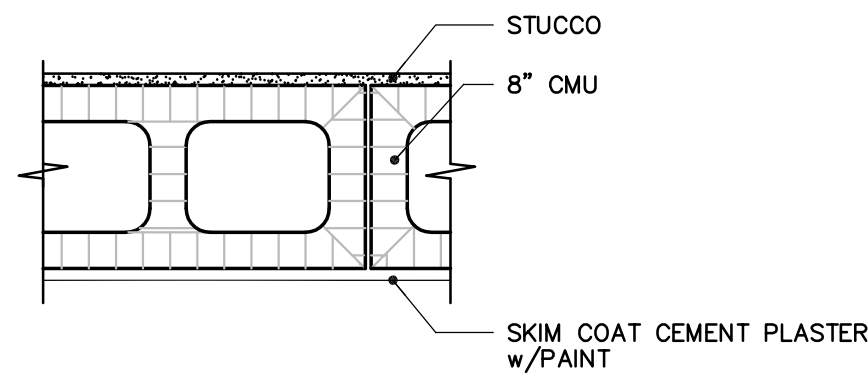
1 2 3 4 5 6

NON-RATED, INTERIOR WALL



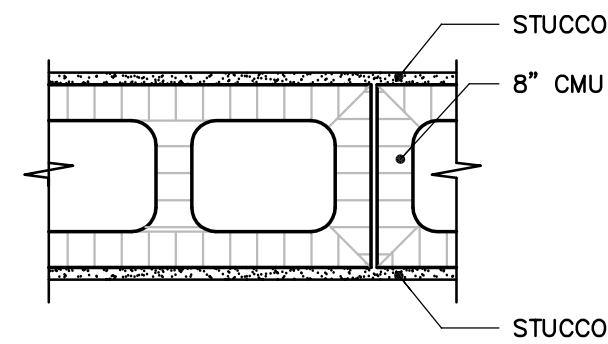
1

NON-RATED, EXTERIOR WALL



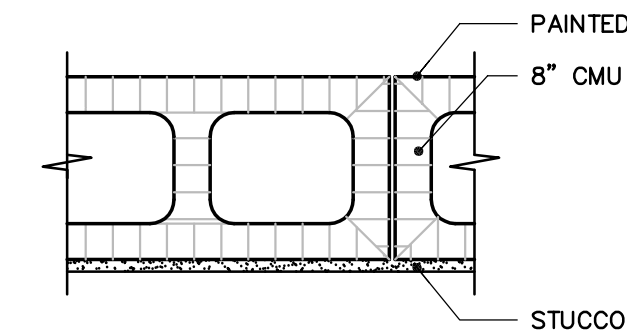
2

NON-RATED, EXTERIOR WALL



3

NON-RATED, EXTERIOR WALL



4

1 WALL TYPES
AR6 1 1/2"=1'-0"

A
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DSGN	A.SLOCOMBE						
DR	R. PERE						
CHK	T. ORLOWSKI						
APVD	A. SLOCOMBE	NO.	DATE	REVISION	BY	APVD	

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OKEEHOLEE PARK SOUTH
BOAT LAUNCH AND RESTROOM FACILITY
PALM BEACH COUNTY, FLORIDA

ARCHITECTURAL
RESTROOM BUILDING
WALL TYPES

SHEET	40 OF 51
DWG	AR 6
DATE	NOVEMBER 2016
PROJ	409534

GENERAL SECTION

- G-1 ARCHITECTURAL AND MECHANICAL DRAWINGS: THE STRUCTURAL DRAWINGS ARE PART OF THE CONTRACT DOCUMENTS AND DO NOT BY THEMSELVES PROVIDE ALL THE INFORMATION REQUIRED TO PROPERLY COMPLETE THE PROJECT STRUCTURE. THE GENERAL CONTRACTOR SHALL CONSULT THE ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS AND COORDINATE THE INFORMATION CONTAINED IN THESE DRAWINGS WITH THE STRUCTURAL DRAWINGS TO PROPERLY CONSTRUCT THE PROJECT.
- G-2 REFER TO ARCHITECTURAL, MECHANICAL OR ELECTRICAL DRAWINGS FOR ADDITIONAL OPENINGS, DEPRESSIONS, FINISHES, INSERTS, BOLTS SETTINGS, DRAINS, REGLETS, ETC. DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND ENGINEER BEFORE PROCEEDING WITH THE WORK.
- G-3 DIMENSIONS: ALL DIMENSIONS AND ELEVATIONS SHOWN ON THE STRUCTURAL DRAWINGS MUST BE VERIFIED AND COORDINATED WITH THE ARCHITECTURAL DRAWINGS BY THE CONTRACTOR BEFORE PROCEEDING WITH THE CONSTRUCTION. DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT OR ENGINEER BEFORE PROCEEDING WITH THE WORK.

STRUCTURAL DESIGN CRITERIA & CODES

- D-1 THIS STRUCTURE HAS BEEN DESIGNED IN ACCORDANCE WITH THE FLORIDA BLDG. CODE 2014 WITH LOCAL AMENDMENTS. WIND LOADS ARE BASED ON ASCE7-10.
- D-2 WIND DESIGN CRITERIA:
 ULTIMATE DESIGN WIND SPEED: 170 MPH (3 SECOND GUST)
 RISK CATEGORY: III
 EXPOSURE CATEGORY: C
 ENCLOSURE CLASSIFICATION: "ENCLOSED"
 INTERNAL PRESSURE COEFFICIENT G_{CPI}: ±0.18

D-3

DESIGN LOAD SCHEDULE	
MATERIALS	LOCATIONS
	TOILET BUILDING
ROOFING	3
INSULATION	1
PLYWOOD	3
TRUSSES	4
CEILING	4
M/E/P	5
TOTAL DEAD LOAD	20
TOTAL LIVE LOAD	20
TOTAL LOAD	40

SOILS & FOUNDATIONS

- SF-1 SHALLOW FOUNDATIONS HAVE BEEN DESIGNED AND PROPORTIONED FOR A MAXIMUM SAFE SOIL BEARING PRESSURE OF 3000 PSF, IN ACCORDANCE WITH THE GEOTECHNICAL ENGINEERING STUDY REPORT PREPARED BY TIERRA SOUTH FLORIDA, DATED JULY 20, 2011.
- SF-2 ALL SITE PREPARATION AND EXCAVATION WORK IS TO BE PERFORMED IN STRICT ACCORDANCE WITH THE ABOVE GEOTECHNICAL REPORT.
- SF-3 SOILS SUPPORTING ALL FOOTINGS MUST BE INSPECTED AND APPROVED BY A REGISTERED SOILS ENGINEER BEFORE COMMENCING WORK. APPROVAL IN WRITING MUST INDICATE THE SOIL IS ADEQUATE TO SAFELY SUSTAIN SPECIFIED SOIL BEARING PRESSURE.
- SF-4 SLAB SUBGRADE SHALL BE PREPARED TO OBTAIN A MINIMUM SUBGRADE MODULUS VALUE OF K = 150 PCI.
- SF-5 FILL SOILS UNDER THE BUILDING PAD SHALL BE COMPACTED IN 12" MAX. CONTROLLED LIFTS. THE FINAL 12" OF COMPACTED FILL ON INSITU SOIL SHALL BE COMPACTED TO 98% OF MODIFIED PROCTOR DENSITY.

REINFORCED CONCRETE

- RC-1 CONCRETE DESIGN AND PLACEMENT SHALL BE IN STRICT ACCORDANCE WITH ACI 318-08, "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE".
- RC-2 STRUCTURAL CONCRETE SHALL CONFORM TO ACI 301 SPECIFICATIONS, AND SHALL DEVELOP THE FOLLOWING MINIMUM COMPRESSIVE STRENGTHS AT 28 DAYS, AS WELL AS OTHER PROPERTIES SPECIFIED IN THESE DOCUMENTS. SEE SPECIFICATIONS FOR DESIGN MIX REQUIREMENTS.

MASONRY GROUT:	3,000 PSI (ASTM C476)
FOOTINGS:	4,000 PSI
SLABS ON GRADE:	4,000 PSI
CAST BEAMS, TIE BEAMS:	4,000 PSI
COLUMNS:	4,000 PSI
MEMBERS EXPOSED TO WEATHER	4,000 PSI
- RC-3 CONCRETE SHALL BE READY-MIX, REGULAR WEIGHT FOR ALL STRUCTURAL USES, WITH MINIMUM DRY DENSITY OF 140 LBS. PER CUBIC FOOT.
- RC-4 CHAMFER ALL EXPOSED CONCRETE EDGES, INCLUDING THOSE TO RECEIVE STUCCO FINISH - 3/4" - UNLESS NOTED OTHERWISE.
- RC-5 REINFORCING STEEL SHALL BE DETAILED, FABRICATED AND INSTALLED IN ACCORDANCE WITH ACI 318-95 AND ACI DETAILING MANUAL, ACI 315.
- RC-6 REINFORCING STEEL SHALL BE NEW, DEFORMED BARS, FREE OF RUST, SCALE AND OIL, CONFORMING TO ASTM A-615, GRADE 60 WITH A MINIMUM YIELDS STRENGTH = 60,000 PSI.
- RC-7 PROVIDE CONTINUOUS REINFORCEMENT WITH ACI CLASS "B" LAP SPLICES, OR AS NOTED OTHERWISE. IN BEAMS, LAP CONTINUOUS BOTTOM STEEL OVER SUPPORTS AND CONTINUOUS TOP STEEL AT MIDSPAN, UNLESS NOTED OTHERWISE.
- RC-8 WELDED WIRE FABRIC REINFORCING SHALL CONFORM TO ASTM A-185. PROVIDE MINIMUM 6 INCH LAPS, TYPICAL. PROVIDE ADEQUATE SUPPORTS AND BOLSTERING TO PRESERVE THE SPECIFIED POSITION OF THE MESH DURING CONCRETE PLACEMENT AND FINISHING.
- RC-9 TERMINATE ALL DISCONTINUOUS ENDS OF TOP BARS WITH STANDARD ACI HOOKS. TURN HOOKS UP OR DOWN INTO SUPPORTING STRUCTURE. CORNER BARS SHALL BE SUPPLIED AND PLACED IN ADDITION TO HOOKED ENDS, PER THE DETAILS IN THESE DOCUMENTS.
- RC-10 PROVIDE THE FOLLOWING MINIMUM CONCRETE COVERAGE OVER REINFORCING UNLESS NOTED OTHERWISE:

FOOTINGS, BOTTOM AND ENDS:	3"
FOOTINGS, TOP & SIDES:	2"
SLABS ON GRADE, BOTTOM:	3"
SLABS ON GRADE, TOP:	1"
BEAMS, COLUMNS (TIES):	1 1/2"
- RC-11 PENETRATIONS THROUGH SLABS, BEAMS OR FOOTINGS SHALL BE SLEEVED INDIVIDUALLY. CORE DRILLING OF EXISTING CONCRETE MEMBERS WILL NOT BE PERMITTED, UNLESS NOTED ON PLANS. SUBMIT LOCATIONS AND SIZES OF ALL SLEEVES FOR ARCHITECT/ENGINEER APPROVAL PRIOR TO CASTING.
- RC-12 NO REINFORCING BARS SHALL BE CUT OR OTHERWISE MODIFIED IN THE FIELD. REINFORCING BARS SHALL NOT BE DISPLACED PRIOR TO OR DURING CASTING TO ACCOMMODATE ANCHORS, EMBEDS OR OTHER ITEMS.
- RC-13 WHERE WALLS, BEAMS AND FOOTINGS CHANGE DIRECTION, PROVIDE CORNER BARS OF SAME SIZE AND QUANTITY AS THE SPECIFIED LONGITUDINAL STEEL. SEE DETAIL.
- RC-14 EMBEDDED ITEMS SHALL BE SECURELY FIXED AND MAINTAINED IN POSITION PRIOR TO AND DURING CONCRETE PLACEMENT.
- RC-15 SUBMIT ALL REINFORCING STEEL SHOP DRAWINGS FOR APPROVAL PRIOR TO ANY FABRICATION.

REINFORCED CONCRETE MASONRY

- M-1 MASONRY CONSTRUCTION SHALL CONFORM TO ACI "BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES" (ACI 530-05/ASCE 5-05/TMS 402-05), SPECIFICATIONS FOR MASONRY STRUCTURES" (ACI 530.1-95/ASCE 6-05/TMS 602-05), AND COMMENTARIES RESPECTIVELY, UNLESS NOTED OTHERWISE HEREIN.
- M-2 MASONRY CONSTRUCTIONS ON THIS PROJECT SHALL BE PERFORMED BY A STRUCTURAL MASONRY INSPECTOR PROVIDED BY CONTRACTOR. THIS INSPECTION SHALL CONFORM TO LEVEL B REQUIREMENTS PER TABLE 3.1.2 OF ACI 530. REPORTS SHALL BE FILED TO THE ENGINEER OF RECORD FOR REVIEW AND APPROVAL.
- M-3 USE TYPE "S" MORTAR, WITH A MINIMUM DESIGN COMPRESSIVE STRENGTH OF 2000 PSI, UNLESS OTHERWISE NOTED.
- M-4 MASONRY UNITS SHALL CONFORM TO ASTM C-90 WITH A MINIMUM COMPRESSIVE STRENGTH OF 1800 PSI ON THE NET SECTION, TO PROVIDE NET AREA COMPRESSIVE STRENGTH OF MASONRY f_m = 1500 PSI, UNLESS NOTED OTHERWISE.
- M-5 PROVIDE SOLID GROUTED REINFORCED VERTICAL CELLS IN UNIT MASONRY AS SPECIFIED ON PLANS. IN ADDITION, PROVIDE SOLID GROUTED REINFORCED VERTICAL CELLS AT ALL CORNERS, INTERSECTIONS AND ADJACENT TO ALL OPENINGS GREATER THAN 16 INCHES, PER THE NOTATIONS/DETAILS IN THESE PLANS. UNLESS NOTED OTHERWISE, THESE BARS SHALL BE THE SAME SIZE AS THE SCHEDULED REINFORCING SPECIFIED FOR EACH WALL.
- M-6 PROVIDE BENT CORNER BARS OF SAME TOTAL AREA AS HORIZONTAL REINFORCING, OR AS SPECIFIED IN BOND COURSES. ONE CORNER BAR SHALL RUN OUTSIDE OF ANY VERTICAL STEEL PASSING THROUGH THE CELL.
- M-7 PROVIDE FULL MORTAR BEDDING AROUND ALL REINFORCED MASONRY CELLS TO BE GROUTED SOLID.
- M-8 REINFORCING FOR MASONRY SHALL CONFORM TO ASTM A-615, GRADE 60. PROVIDE THE FOLLOWING MINIMUM LAP SPLICES, UNLESS NOTED OTHERWISE - WISE ON PLANS:

#4 BARS	24"	#7 BARS	42"
#5 BARS	30"	#8 BARS	48"
#6 BARS	36"	#9 BARS	54"
- M-9 GROUTING OF MASONRY CELLS AND REINFORCED CELLS SHALL BE IN ACCORDANCE WITH THE PROCEDURES FOR LOW-LIFT GROUTING AS DESCRIBED IN ACI-530-05.
- M-10 GROUTING LIFTS SHALL BE LIMITED TO A VERTICAL HEIGHT OF FIVE (5) FEET.
- M-11 REINFORCE ALL WALLS HORIZONTAL JOINTS, 16" O.C. WITH CONTINUOUS 9 GAUGE LADDER-TYPE REINFORCING. PROVIDE PREFABRICATED "TEE" AND CORNER PIECES.
- M-12 PROVIDE SAWED BLOCK CLEANOUT HOLES AT THE BASE OF EACH VERTICAL REINFORCED CELL. LOCATE CLEANOUTS BELOW FINISH GRADE WHERE POSSIBLE.
- M-13 GROUTED CELLS SHALL BE VIBRATED DURING PLACEMENT OF GROUT.
- M-14 CONCRETE BEAMS AND LINTELS TO HAVE A MINIMUM OF 8 INCHES OF BEARING AT EACH END.

MANUFACTURED METAL CONNECTORS

- MC-1 PREFABRICATED AND MANUFACTURED METAL CONNECTORS, STRAPS, ANCHORS, TIES AND HANGERS SHALL BE HOT DIPPED GALVANIZED TO CONFORM TO ASTM A-525, G90 UNLESS OTHERWISE NOTED.
- MC-2 PROVIDE SUBMITTALS OF ALL ITEMS, OR PROPOSED SUBSTITUTIONS FOR EQUAL APPROVAL. PROVIDE SIZE AND NUMBER OF FASTENERS PER MANUFACTURER RECOMMENDATIONS, UNLESS NOTED OTHERWISE ON PLANS.
- MC-3 TRUSS SYSTEM MANUFACTURER MUST SPECIFY AND PROVIDE CONNECTIONS AND ANY ANCHORS OR CONNECTORS REQUIRED TO JOIN TRUSS TO TRUSS.
- MC-4 GENERAL CONTRACTOR TO VERIFY THAT THE UPLIFT FORCES INDICATED IN THE ROOF TRUSS SHOP DRAWING SUBMITTALS DO NOT EXCEED THE UPLIFT VALUES INDICATED IN THE HURRICANE STRAP & ANCHOR SCHEDULE ON DRAWING SR4.

ENGINEERED WOOD TRUSSES

- WT-1 WOOD TRUSSES SHALL BE DESIGNED, PREFABRICATED, HANDLED AND ERECTED IN ACCORDANCE WITH THE FOLLOWING TRUSS PLATE INSTITUTE PUBLICATIONS INCLUDING, BUT NOT LIMITED TO :
 - A. DESIGN SPECIFICATION FOR METAL PLATE CONNECTED WOOD TRUSSES.
 - B. DESIGN SPECIFICATION FOR METAL PLATE CONNECTED PARALLEL CHORD WOOD TRUSSES.
 - C. COMMENTARY AND RECOMMENDATIONS FOR HANDLING AND ERECTING WOOD TRUSSES.
 - D. COMMENTARY AND RECOMMENDATIONS FOR BRACING WOOD TRUSSES.
 - E. QUALITY STANDARD FOR METAL PLATE CONNECTED WOOD TRUSSES.
- WT-2 TRUSSES SHALL BE DESIGNED BY CONNECTOR PLATE MANUFACTURER TO SUPPORT ALL SUPERIMPOSED DEAD, LIVE AND WIND LOADS INDICATED. SUBMIT DESIGN CALCULATIONS AND ERECTION DRAWINGS COMPLETE WITH MEMBER PLACEMENTS AND CONNECTORS FOR TRUSS TO SUPPORTING STRUCTURE AND TRUSS TO TRUSS CONNECTIONS. DESIGN CALCULATIONS AND ERECTION DRAWINGS TO BEAR THE SEAL OF A PROFESSIONAL REGISTERED ENGINEER LICENSED TO PRACTICE IN THE STATE OF FLORIDA.
- WT-3 TRUSS DESIGN LOADS SHALL BE AS PER INDICATED IN THE LOAD SCHEDULE, AND PROVIDE FOR ADDITIONAL LOADINGS, CONCENTRATED OR UNIFORM, AS INDICATED ON PLANS.
- WT-4 DESIGN TRUSSES TO RESIST DESIGN WIND UPLIFT PRESSURES SHOWN ON DRAWING SR4. INDICATE NET UPLIFT TRUSS REACTIONS ON SUBMITTAL CALCULATIONS.
- WT-6 WOOD TRUSSES SHALL BE BRACED AND ERECTED IN ACCORDANCE WITH THE "TRUSS PLATE INSTITUTE" BRACING WOOD TRUSSES: COMMENTARY AND RECOMMENDATIONS, BWT-76, BRACING IN THE PLAN OF THE WEB MEMBERS :
 - A. THE TRUSS FABRICATOR SHALL PROVIDE AND LOCATE CONTINUOUS LATERAL BRACING FOR EACH TRUSS WEB MEMBER AS REQUIRED.
 - B. PROVIDE 2x4 CONTINUOUS ALONG BOTTOM CHORD OF TRUSS AS REQUIRED FOR NET UPLIFT OR 6'-0" O.C. MAXIMUM. FASTEN TO TOP OF BOTTOM CHORD WITH 2-12d NAILS.

PLYWOOD ROOF SHEATHING

- PW-1 PLYWOOD SHALL CONFORM TO CONCEALED APA PERFORMANCE RATED PANELS FOR WALL, ROOF AND FLOOR SHEATHING.
- PW-2 ROOF SHEATHING SHALL BE 5/8" STRUCTURAL 1, EXPOSURE 1 SPAN-RATED PANELS.
- PW-3 ROOF DIAPHRAGM SHEATHING SHALL BE FASTENED PER SCHEDULE ON DRAWING SR4
- PW-4 PROVIDE 2x6 CONTINUOUS DIAPHRAGM CHORD AROUND PERIMETER OF BUILDING AND ROOF LINES. FASTEN TO ROOF TRUSSES WITH 3-16d COMMON NAILS.
- PW-5 PROVIDE CONTINUOUS BLOCKING AT ROOF RIDGES, VALLEYS, CORNERS, EDGES AND ALL PLYWOOD PANEL EDGES.

TO THE BEST OF THE ARCHITECT'S AND ENGINEER'S KNOWLEDGE THE PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE MINIMUM BUILDING CODES AND THE APPLICABLE FIRE SAFETY STANDARDS AS DETERMINED BY THE LOCAL AUTHORITY IN ACCORDANCE WITH CHAPTERS 553 AND 633 OF THE FLORIDA STATUTES.

CONTRACTOR NOTE:
 THESE NOTES ARE PROVIDED FOR CONVENIENCE.
 REFER TO THE PROJECT SPECIFICATIONS MANUAL FOR COMPLETE INFORMATION.
 WHERE ANY DISCREPANCY IS DETERMINED BETWEEN THESE NOTES AND THE SPECIFICATIONS, THE MORE STRINGENT SHALL APPLY.

CONSTRUCTION SET
 NOVEMBER 2016

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DSGN	L. VAN DYK		
DR	R. PERE		
CHK	J CASEY LONG		
APVD	J CASEY LONG	NO.	DATE

REVISION

BY

APVD

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 EB 000072 AA C000656 LC 26000188

OKEEHEELEE PARK SOUTH
 BOAT LAUNCH AND RESTROOM FACILITY
 PALM BEACH COUNTY, FLORIDA

STRUCTURAL
 RESTROOM BUILDING
 STRUCTURAL GENERAL NOTES

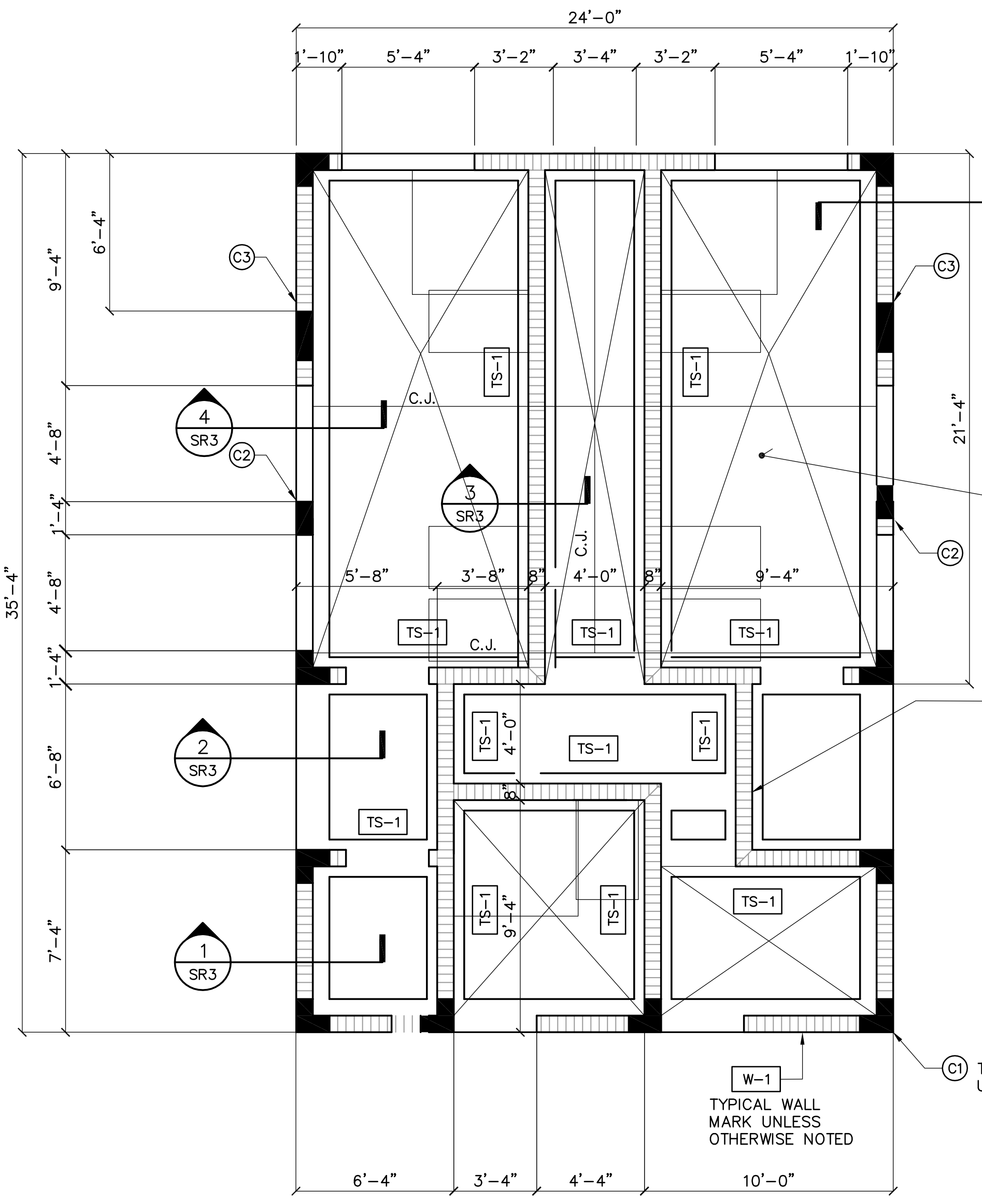
SHEET	41 OF 51
DWG	SR1
DATE	NOVEMBER 2016
PROJ	409534

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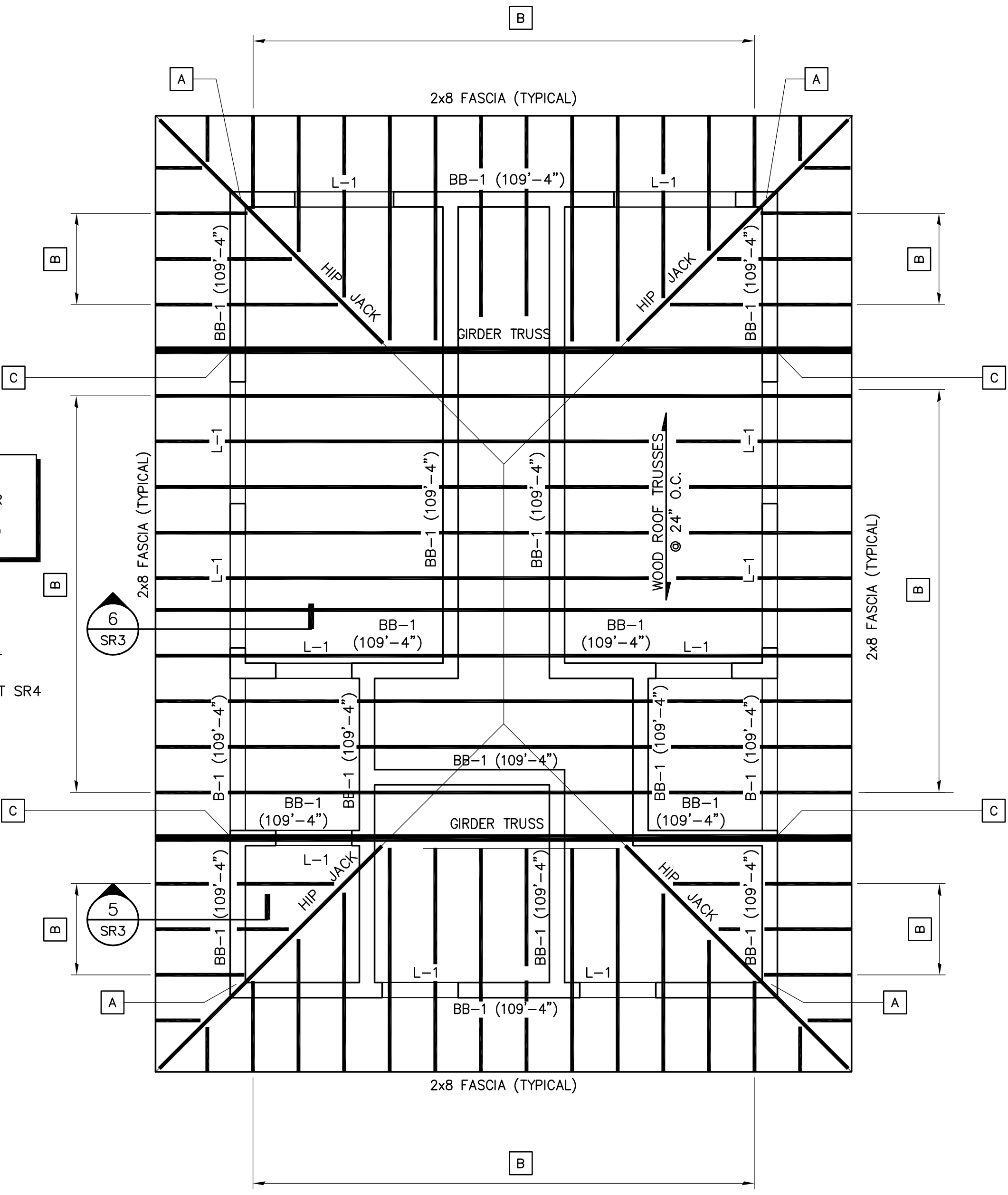
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4" 4000 PSI CONCRETE SLAB REINF WITH 6" x 6" - W2.9 x W2.9 ON 10 MIL VAPOR BARRIER WITH TAPED AND OVERLAPPING JOINTS ON TREATED COMPACTED FILL

ADDITIONAL WALL REINFORCING AT CORNERS AND EITHER SIDE OF OPENINGS " TYPICAL " SEE REINFORCED CONCRETE UNIT MASONRY NOTE M-5 SHEET SR1 AND DETAILS 1 AND 2 ON SHEET SR4

1 FOUNDATION PLAN
1/4" = 1'-0"



2 ROOF FRAMING PLAN
1/4" = 1'-0"

PLAN NOTES

1. FINISH FLOOR SHALL BE ELEV. 100'-0" REFERENCE TO CIVIL PLANS
2. FOR FOUNDATION SECTIONS AND DETAILS SEE SHEET SR3
3. (C) DENOTES COLUMN TYPE SEE 8/SR3
4. (TE-1) DENOTES THICKENED EDGE SEE SCHEDULE ON SR4
5. (TS-1) DENOTES THICKENED SLAB SEE SCHEDULE ON SR4
6. (X) DENOTES TRUSS TIE DOWN CONNECTOR SEE SCHEDULE ON SR4
7. BB-X (X'-X") - DENOTES TOP OF BOND BEAM SEE SCHEDULE ON SR4
8. B-X (X'-X") - DENOTES TOP OF BEAM SEE SCHEDULE ON SR4
9. L-1 DENOTES PRECAST LINTEL SEE SCHEDULE ON SR4
10. ALL CMU WALLS SHALL BE 8" REINFORCED MASONRY BLOCK UNITS PER SCHEDULE SEE NOTES ON SHEET SR1 FOR ADDITIONAL REQUIREMENTS.
11. TRUSS BEARING SHALL BE ELEV. 109'-4" ON PERIMETER WALLS ONLY UNLESS NOTED OTHERWISE
12. CJ INDICATES CONTROL JOINT AND CONSTRUCTION JOINT SEE DETAIL 9/SR3 AND 10/SR3
13. SEE DETAIL 5/SR4 FOR WOOD BUCK REQUIREMENTS.
14. ALL TRUSS TO TRUSS CONNECTIONS SHALL BE BY THE TRUSS MANUFACTURER.

CONSTRUCTION SET
NOVEMBER 2016

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DSGN	L. VAN DYK				
DR	R PERE				
CHK	J CASEY LONG				
APVD	J CASEY LONG	NO.	DATE	REVISION	BY

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

CH2MHILL
3001 PGA BOULEVARD, SUITE 300
PALM BEACH GARDENS, FLORIDA 33410
EB 0000072 AA C000656 LC 26000188

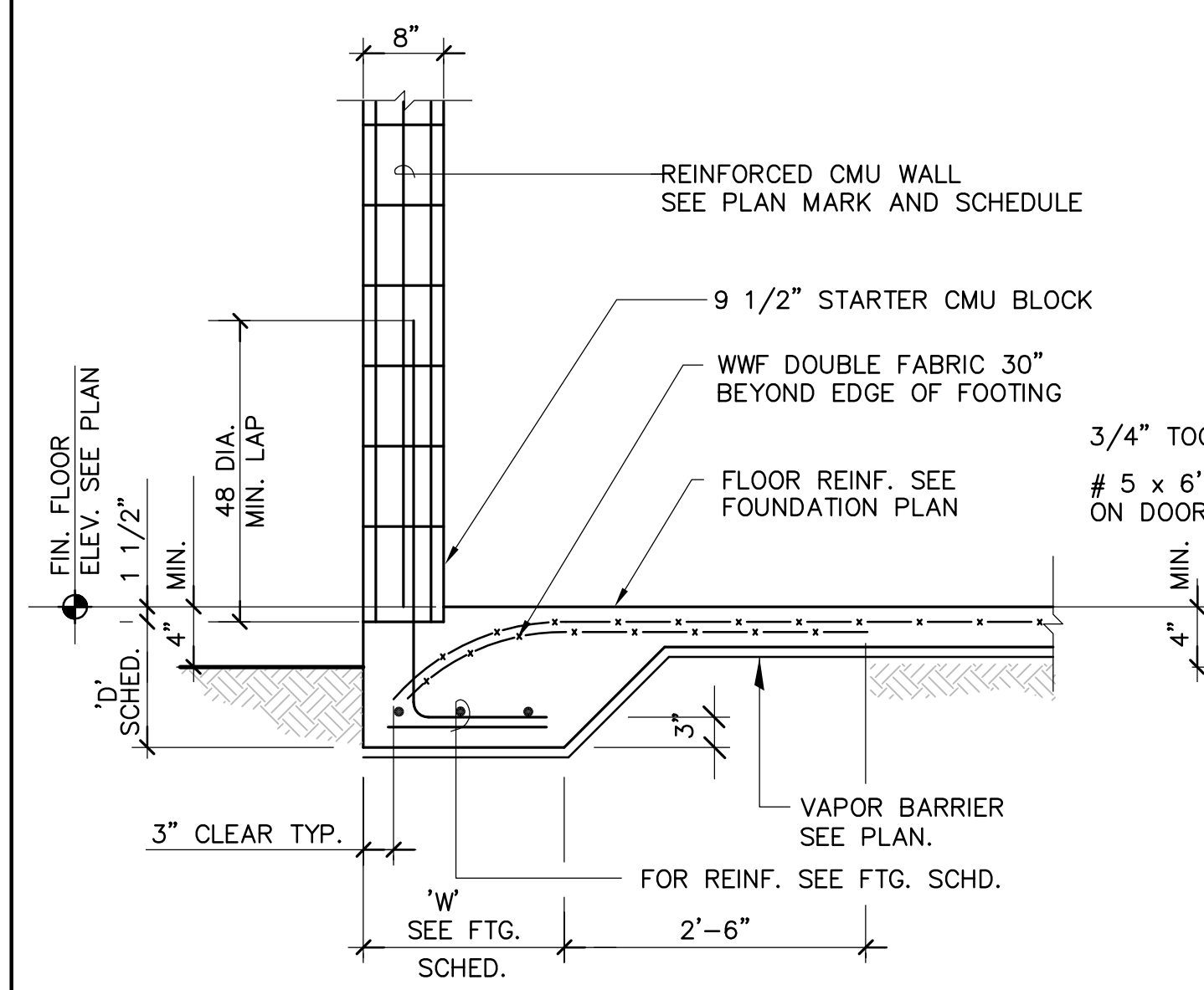
OKEEHEELEE PARK SOUTH
BOAT LAUNCH AND RESTROOM FACILITY
PALM BEACH COUNTY, FLORIDA

STRUCTURAL
RESTROOM BUILDING
STRUCTURAL PLANS

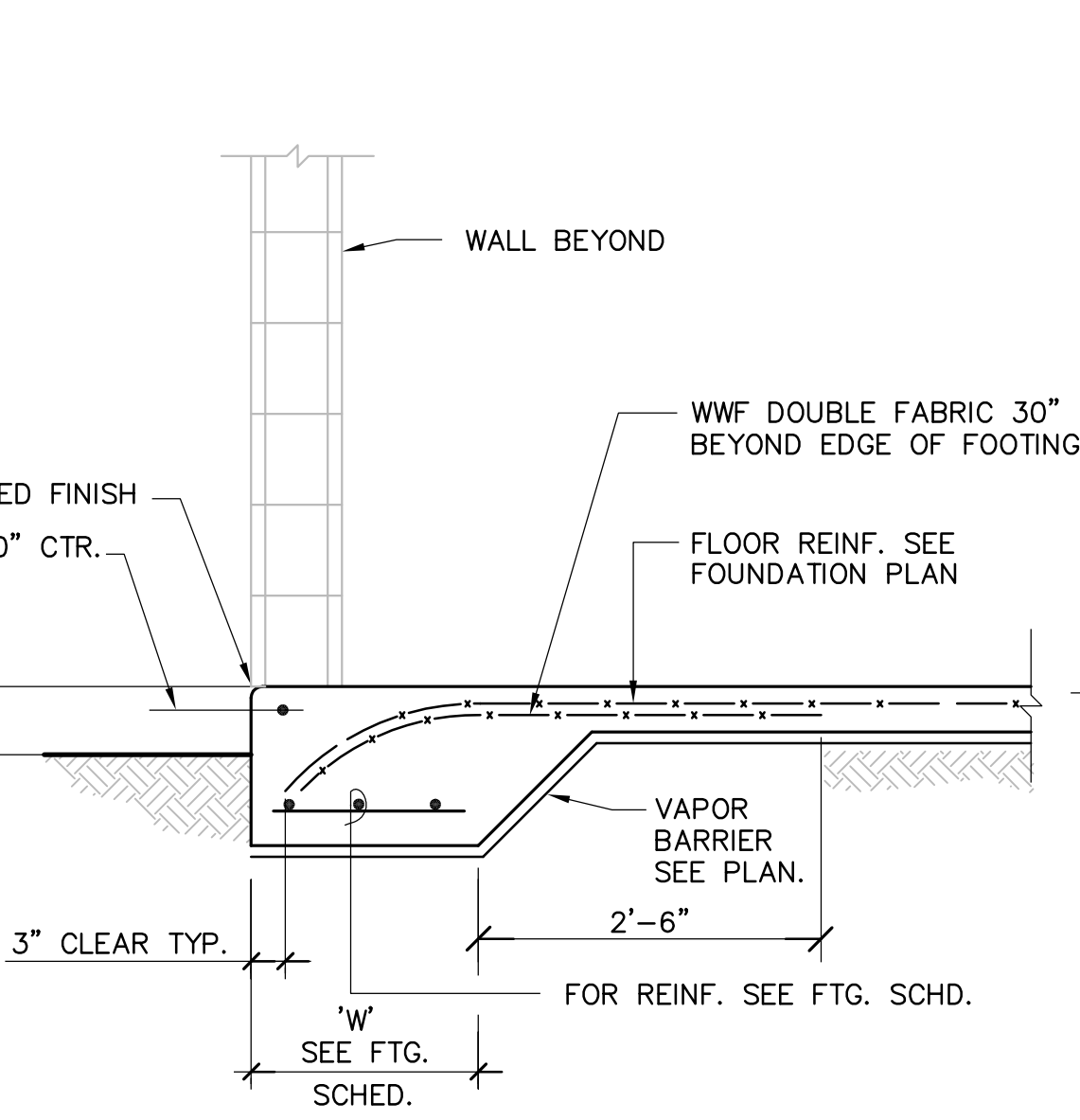
SHEET	42 OF 51
DWG	SR2
DATE	NOVEMBER 2016
PROJ	409534

TO THE BEST OF THE ARCHITECT'S AND ENGINEER'S KNOWLEDGE THE PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE MINIMUM BUILDING CODES AND THE APPLICABLE FIRE SAFETY STANDARDS AS DETERMINED BY THE LOCAL AUTHORITY IN ACCORDANCE WITH CHAPTERS 553 AND 633 OF THE FLORIDA STATUTES.

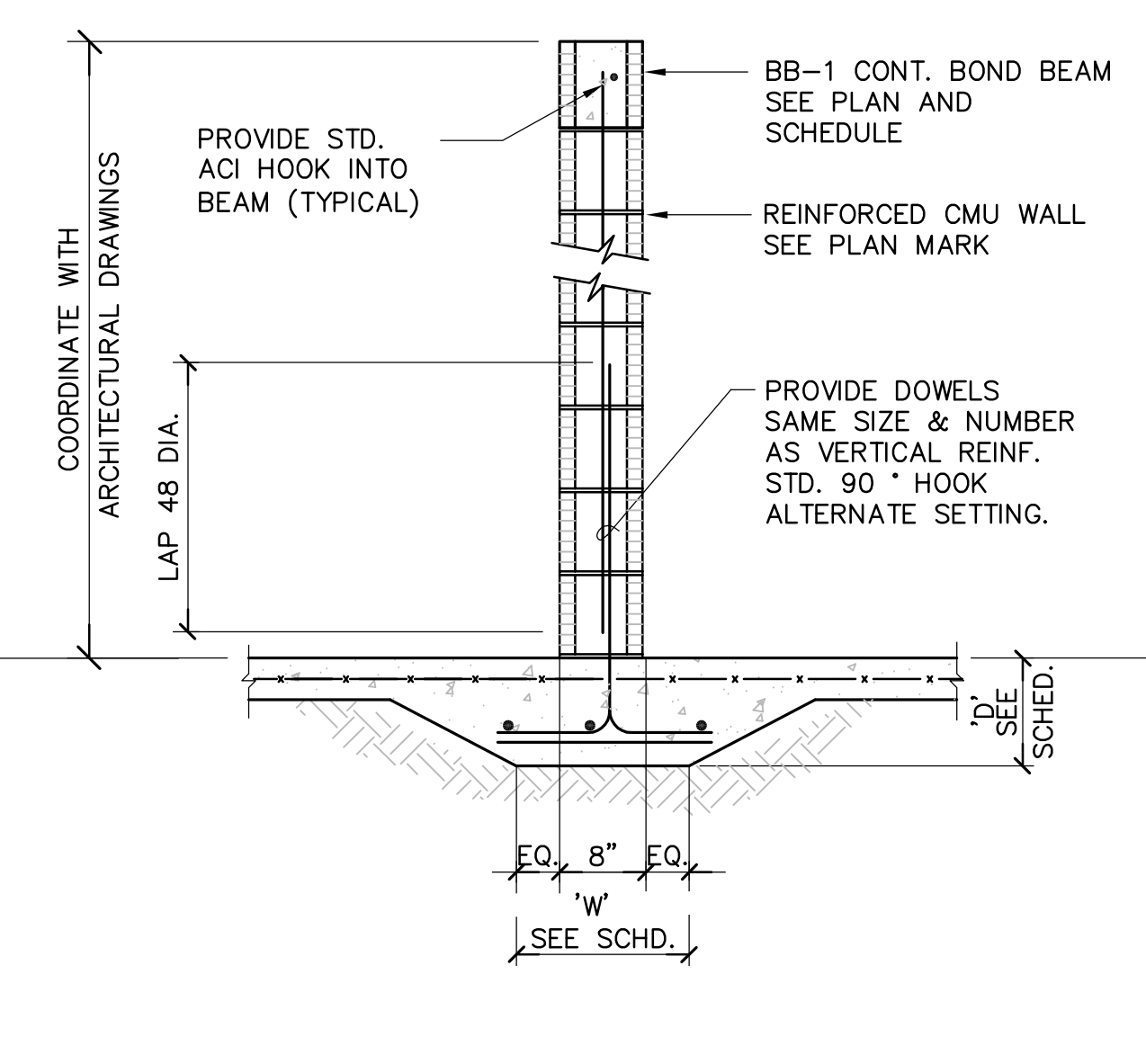
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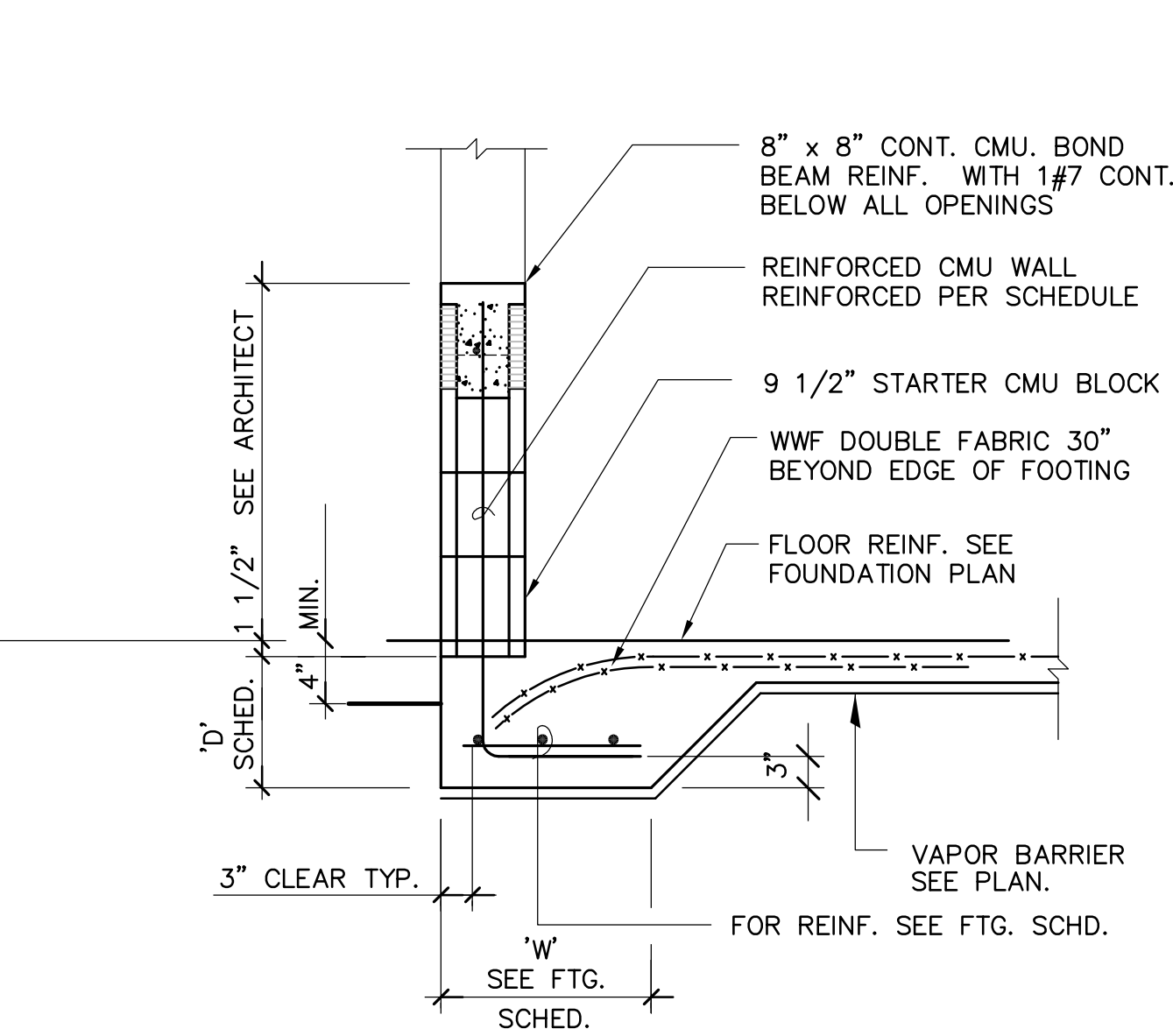
1 TYPICAL EXTERIOR CONT. MONOLITHIC FOOTING
SR3 3/4"=1'-0"



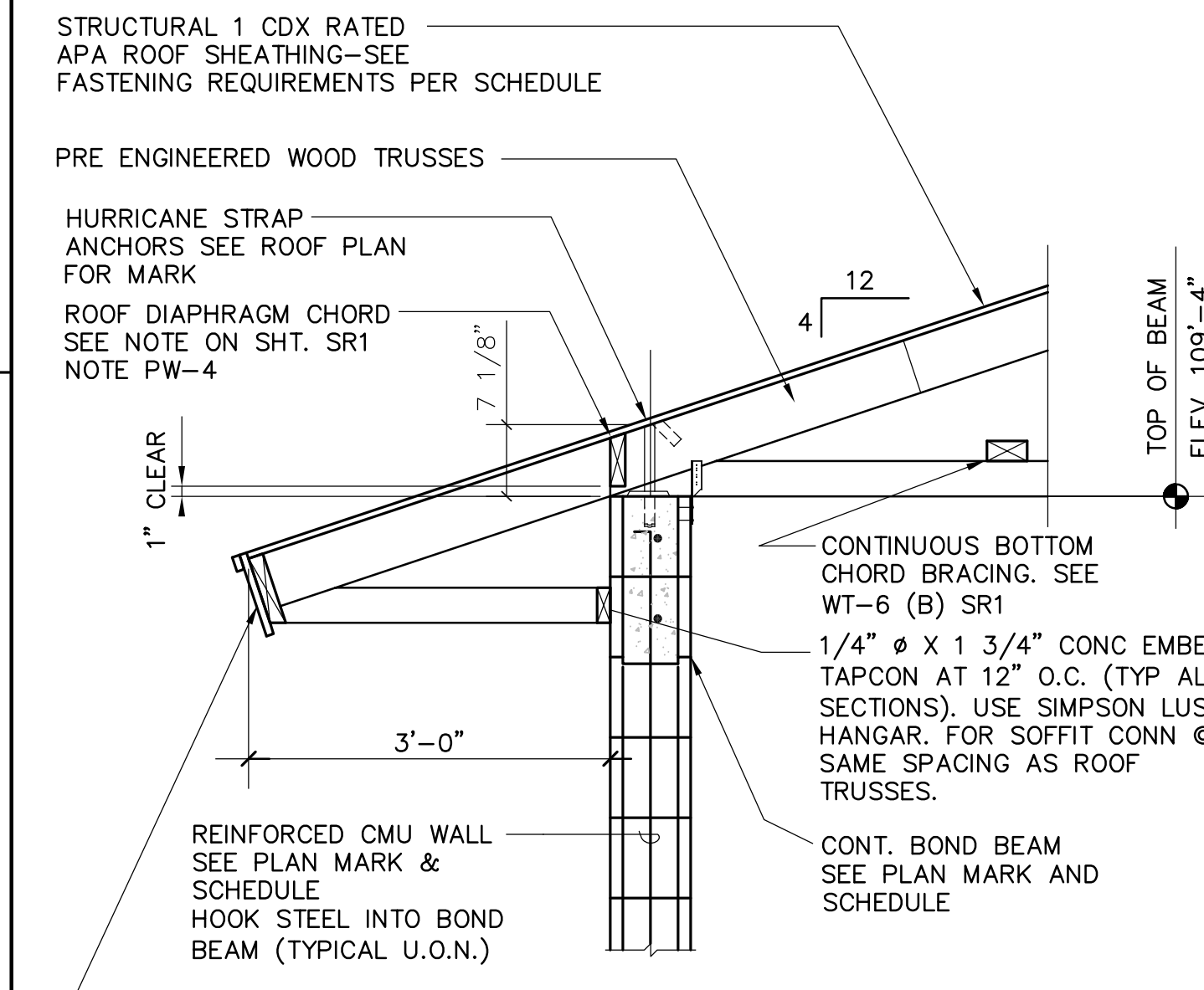
2 TYPICAL THICKENED EDGE
SR3 3/4"=1'-0"



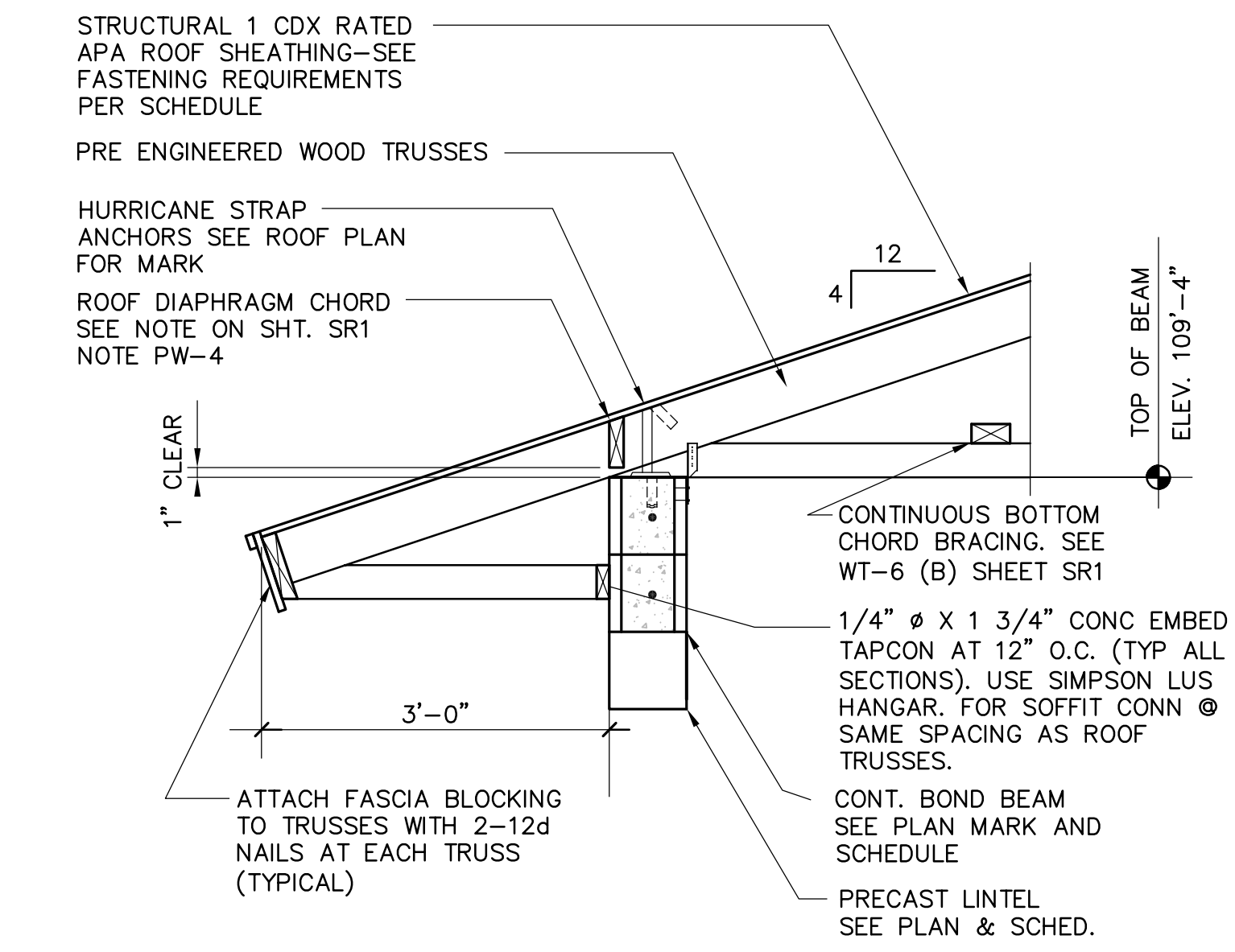
3 TYPICAL INTERIOR WALL FOOTING (NON BEARING)
SR3 3/4"=1'-0"



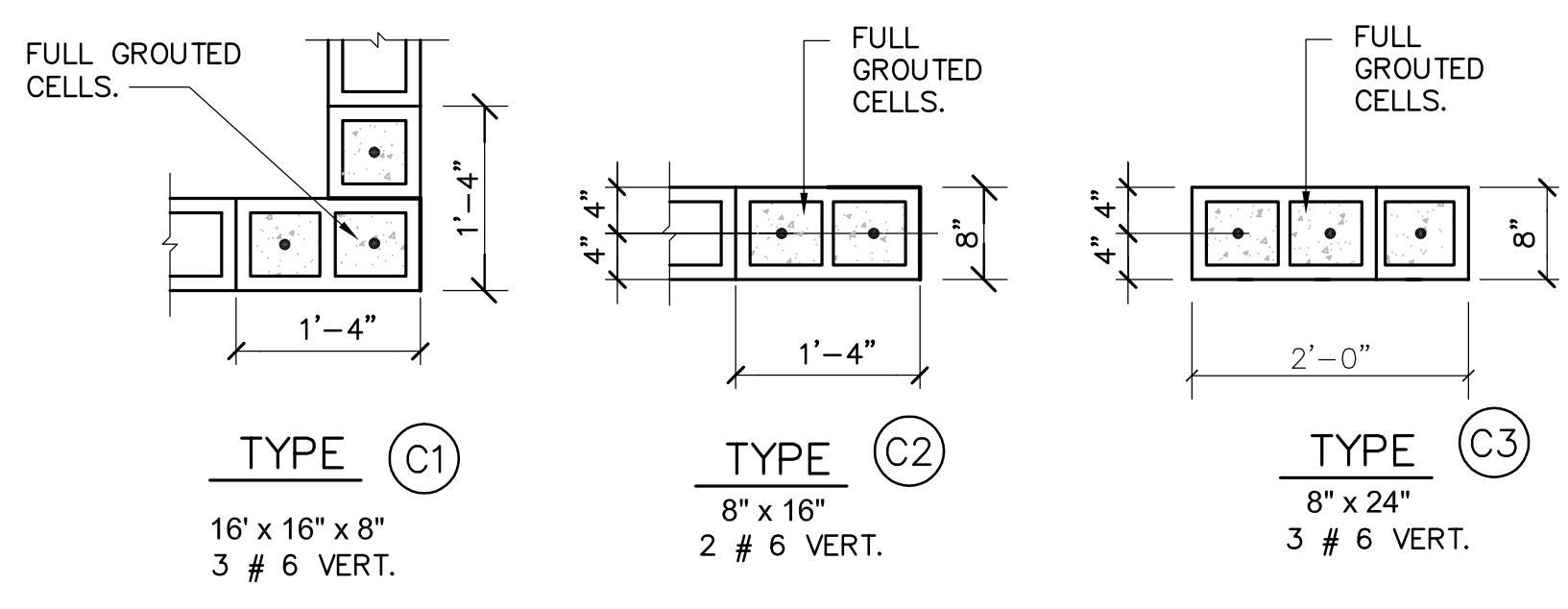
4 SECTION AT WINDOW SILL
SR3 3/4"=1'-0"



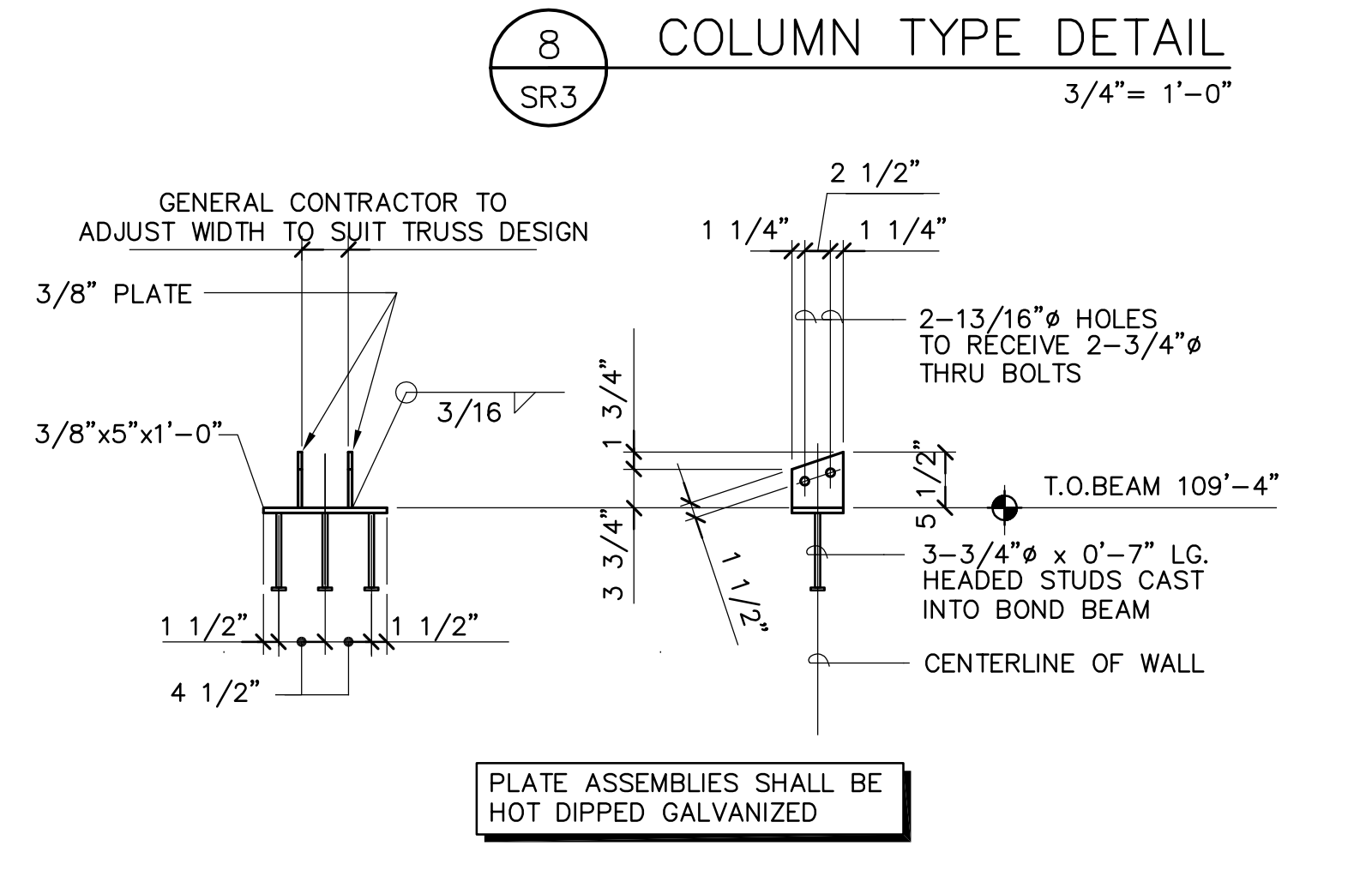
5 SECTION
SR3 3/4"=1'-0"



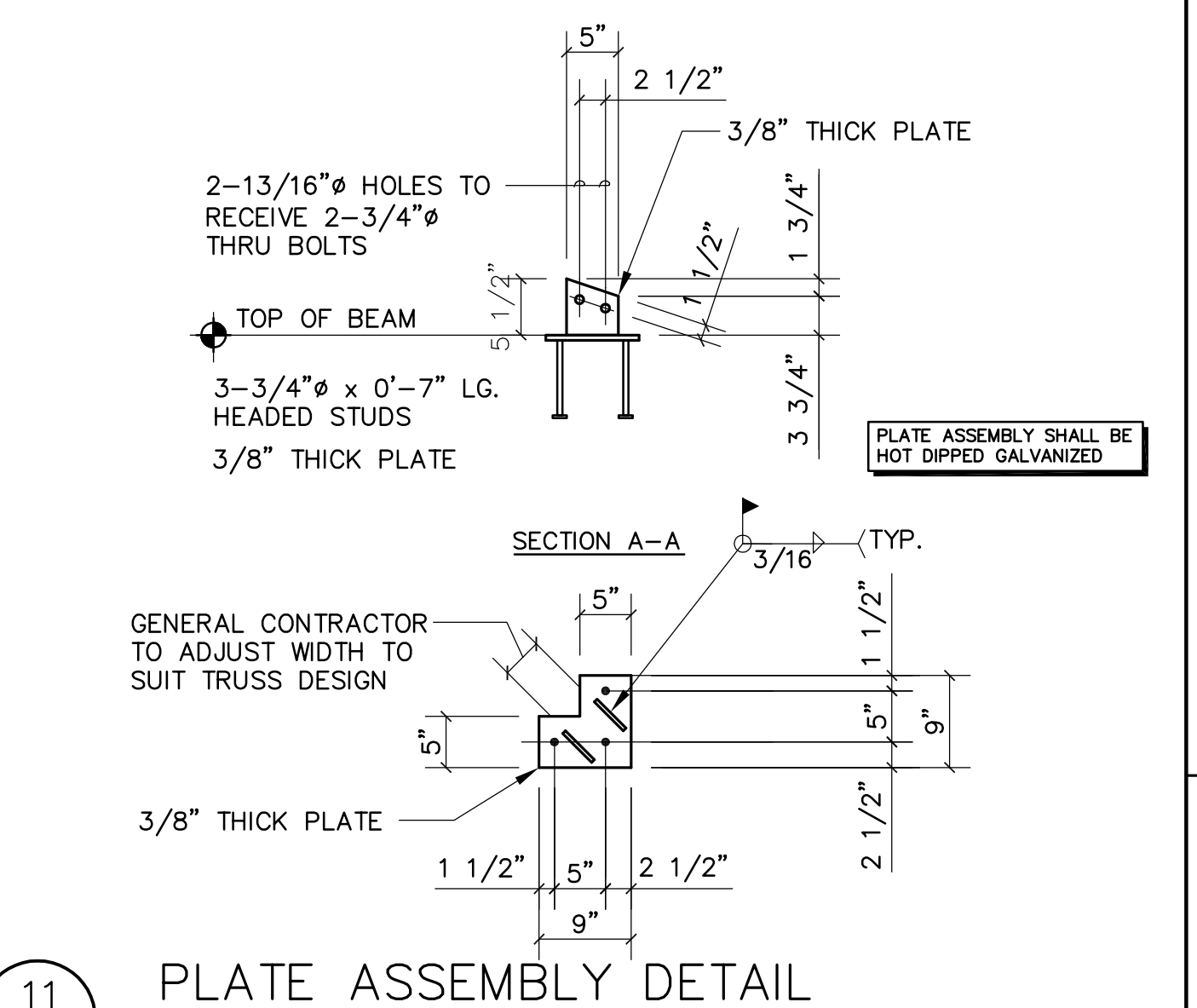
6 SECTION
SR3 3/4"=1'-0"



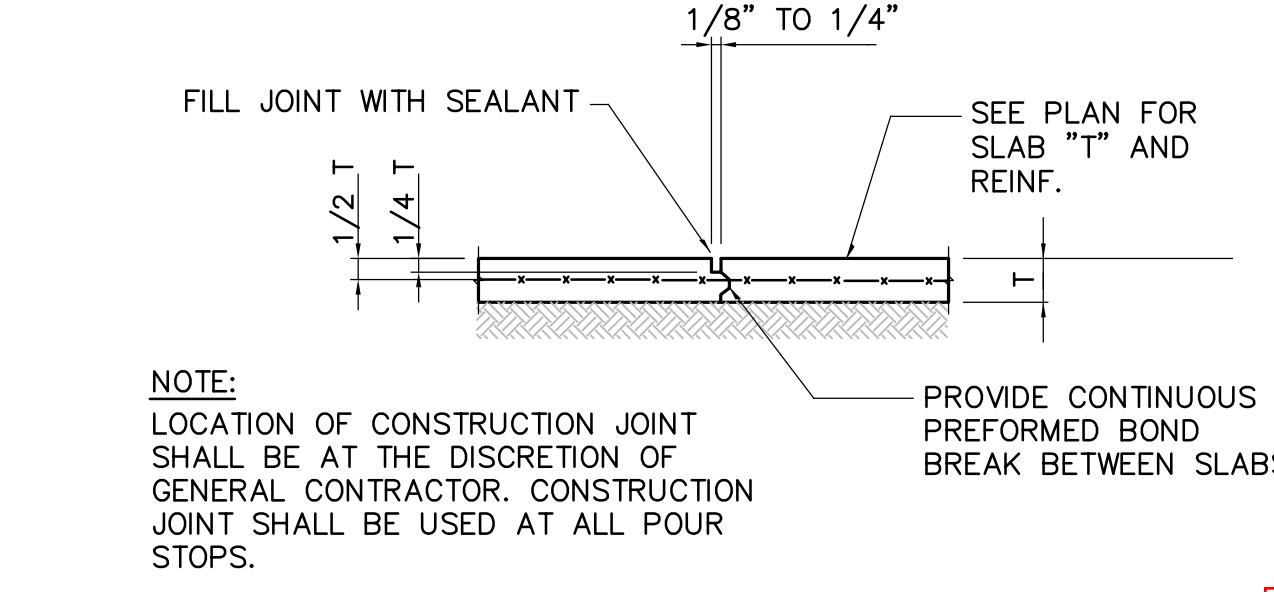
7 PLATE ASSEMBLY DETAIL (HURRICANE CONN. TYPE "C")
SR3 3/4"=1'-0"



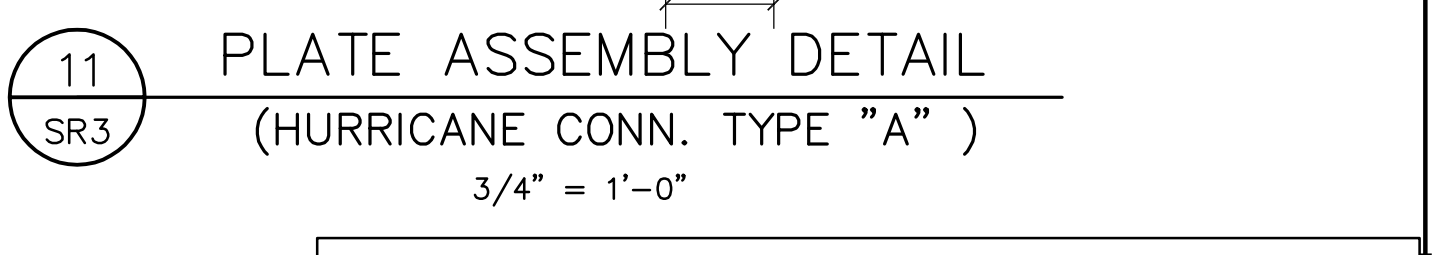
8 COLUMN TYPE DETAIL
SR3 3/4"=1'-0"



9 TYP. FLOOR CONTROL JOINT
SR3 NOT TO SCALE



10 TYP. FLOOR CONSTRUCTION JOINT
SR3 NOT TO SCALE



11 PLATE ASSEMBLY DETAIL (HURRICANE CONN. TYPE "A")
SR3 3/4"=1'-0"

CONSTRUCTION SET NOVEMBER 2016

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DR	R. PERE				
CHK	J CASEY LONG				
APVD	J CASEY LONG	NO.	DATE	REVISION	BY

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OKEEHEELEE PARK SOUTH
BOAT LAUNCH AND RESTROOM FACILITY
PALM BEACH COUNTY, FLORIDA

STRUCTURAL
RESTROOM BUILDING
STRUCTURAL DETAILS

SHEET	43 OF 51
DWG	SR3
DATE	NOVEMBER 2016
PROJ	409534

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FOOTING SCHEDULE				
MARK	SIZE "W" x "L"	DEPTH "D"	REINFORCING	NOTES
TE-1	2'-0" x CONT.	16"	3 #5 CONT. #5 @ 10" BOTT. TRANSVERSE	MONOLITHIC
TS-1	2'-0" x CONT.	16"	3 #5 CONT. #5 @ 10" O.C. TRANS.	MONOLITHIC

BEAM SCHEDULE							
MARK	SIZE BxD (inches)	REINFORCING			STIRRUPS		REMARKS
		BOTT.	TOP	MID	TIES	SPACING	
BB-1	8"x16"	1 #7	1 #7	-	-	-	MASONRY BOND BEAM
B-1	8"x24"	2 #7	2 #7	-	#3	8"	CONCRETE 16" MIN BEARING EACH SIDE OF OPENING
L-1	8"x8"	PRECAST RATED FOR 1000 LBS/FT (GRAVITY AND UPLIFT) FOR OPENINGS UP TO 6'-0"					

STRUCTURAL WALL SCHEDULE			
MARK	MATERIAL	REINFORCING	REMARKS
W-1	8" CMU	#5 @ 32" O.C.	PROVIDE 9 ga LADDER REINF. @ 16" OC VERTICALLY

SHEATHING NAILING SCHEDULE (ROOF)		
NAIL SIZE	NAIL SPACING	ZONE
10d COMMON	4" @ EDGES, 6" @ INTERMEDIATE SUPPORTS	ROOF ③
10d COMMON	6" @ EDGES, 6" @ INTERMEDIATE SUPPORTS	ROOF ① ②

NOTES: 1. LINEAR INTERPOLATION BETWEEN AREA VALUES IS ACCEPTABLE
2. COMPONENT AREA SHALL BE L x W OR L x 1/3 L WHICHEVER IS GREATER
3. DEDUCT DEAD LOADS PER NOTE D-3 ON SR1 FOR NET UPLIFT PRESSURES

HURRICANE STRAP & ANCHOR SCHEDULE							
MARK	DESCRIPTION	ANCHOR TYPE	RATED CAPACITY (LBS)*	MAX. CALCULATED LOAD (LBS)**	FASTENING REQUIREMENTS TO TRUSS	FASTENING REQUIREMENTS TO BEAM	LOCATION
A	DETAIL	DETAIL 11/SR3	U = 26000 V _⊥ = 13200 V _∥ = 13200	U = 3007 V _⊥ = 387 V _∥ = 950	2-3/4" Ø THRU BOLTS	EMBEDDED	HIP JACK TO TIE BEAM
B	SIMPSON	META20	U = 1985 V _⊥ = 1210 V _∥ = 1160	U = 1798 V _⊥ = 387 V _∥ = 600	6 - 10d x 1 1/2" lg. NAILS PER STRAP (12 NAILS TOTAL)	EMBEDDED (4 INCH MIN.)	TRUSS TO BOND BEAM
C	DETAIL	DETAIL 7/SR3	U = 26000 V _⊥ = 13200 V _∥ = 13200	U = 3400 V _⊥ = 387 V _∥ = 1200	2-3/4" Ø THRU BOLTS	EMBEDDED	GIRDER TRUSS TO BOND BEAM

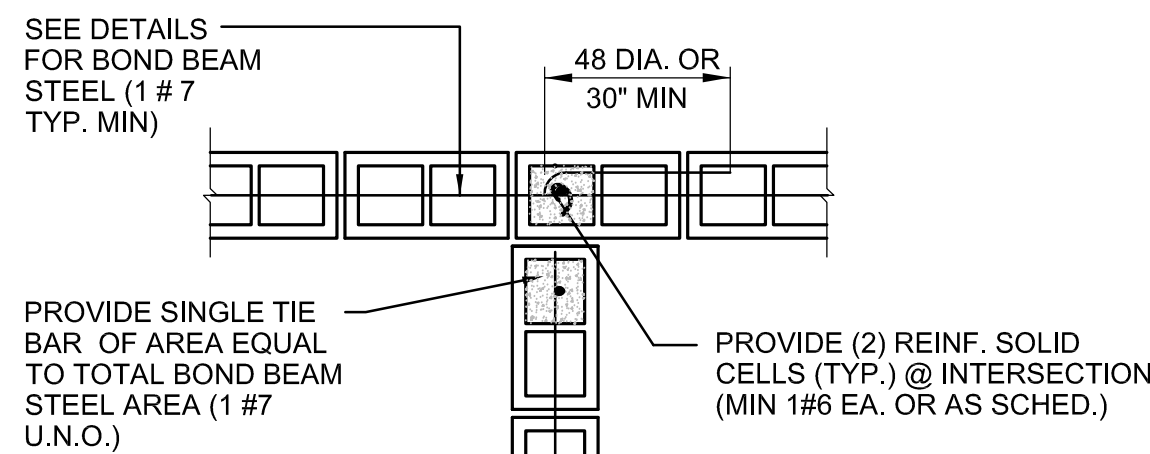
NOTES:
U = UPLIFT
V_⊥ = SHEAR PERPENDICULAR TO TRUSS
V_∥ = SHEAR PARALLEL TO TRUSS
* = RATED CAPACITIES DO NOT INCLUDE A 1/3 STRESS INCREASE IN THE STEEL
** = LOADS DO NOT INCLUDE ANY LOAD DURATION DECREASE

COMPONENTS AND CLADDING - ROOF PRESSURES (PSF)												
ZONES	AREA ft. ²		10		20		50		100		>100	
	POS	NEG.	POS	NEG.	POS	NEG.	POS	NEG.	POS	NEG.	POS	NEG.
ZONE 1	24.6	-39.1	22.4	-38.0	19.5	-36.5	17.3	-35.5	17.3	-33.5		
ZONE 2	24.6	-82.4	22.4	-74.8	19.5	-64.7	17.3	-57.1	17.3	-57.1		
ZONE 2 OH		-81.2	-	-81.2	-	-81.2	-	-81.2	-	-81.2		
ZONE 3	24.6	-94.9	22.4	-88.8	19.5	-103.3	17.3	-74.4	17.3	-74.4		
ZONE 3 OH		-133.8	-	-120.2	-	-105.3	-	-91.5	-	-91.5		

COMPONENTS AND CLADDING - WALL PRESSURES (PSF)																
ZONES	AREA ft. ²		10		20		50		100		200		500		>500	
	POS	NEG.	POS	NEG.	POS	NEG.	POS	NEG.	POS	NEG.	POS	NEG.	POS	NEG.	POS	NEG.
ZONE 4	42.7	-46.7	40.6	-41.0	38.2	-41.9	36.1	-39.9	36.4	-39.9	36.3	-39.9	36.3	-39.9	36.3	-39.9
ZONE 5	42.7	-57.1	40.6	-53.2	38.2	-48.4	36.1	-44.4	36.4	-44.4	36.3	-39.9	36.3	-39.9	36.3	-44.4

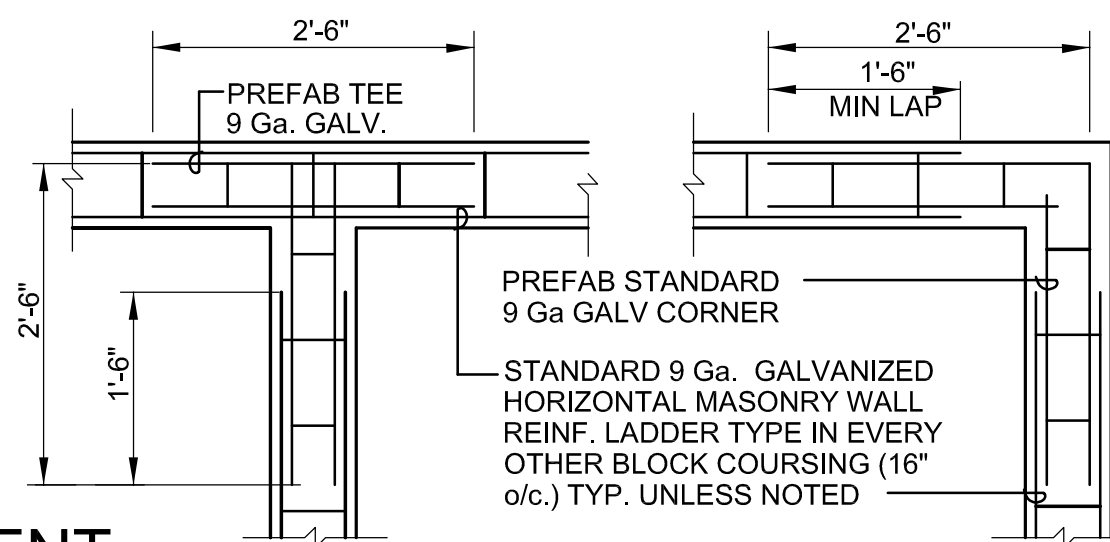
NOTES: 1. LINEAR INTERPOLATION BETWEEN AREA VALUES IS ACCEPTABLE
2. COMPONENT AREA SHALL BE L x W OR L x 1/3 L WHICHEVER IS GREATER
3. DEDUCT DEAD LOADS PER NOTE D-3 ON SC-1 FOR NET UPLIFT PRESSURES
4. OH DENOTES OVER HANG

WIND PRESSURES INDICATED IN THESE TABLES ABOVE HAVE BEEN REDUCED FROM ULTIMATE TO SERVICE LOADS BY A FACTOR OF 0.6. WHEN USED WITH LRFD DESIGN, THE ABOVE WIND PRESSURES MUST BE INCREASED BY DIVIDING THE PRESSURES BY A FACTOR OF 0.6.

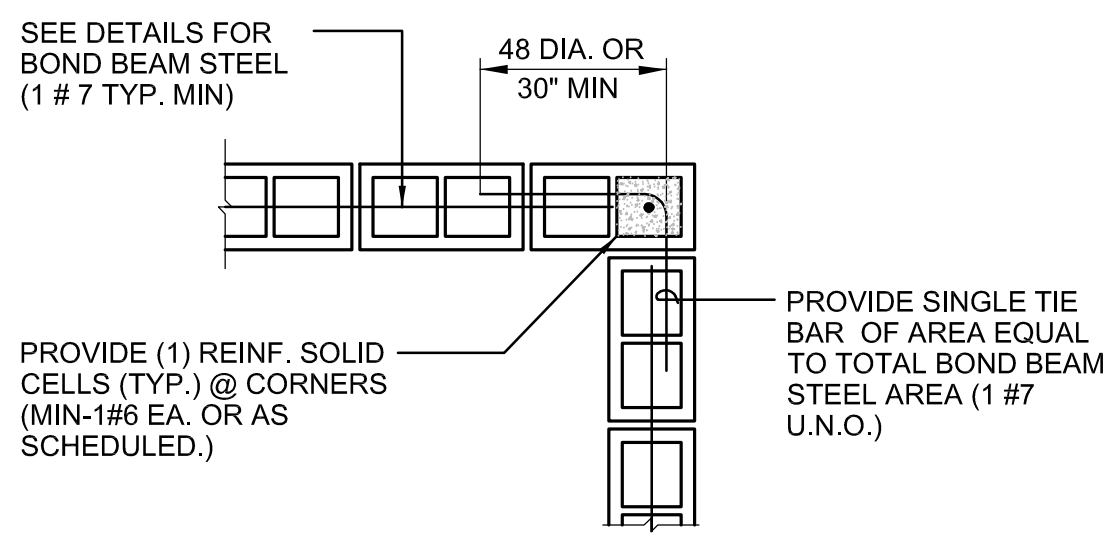


INTERSECTION DETAIL

1 BOND BEAM REINFORCEMENT
NOT TO SCALE

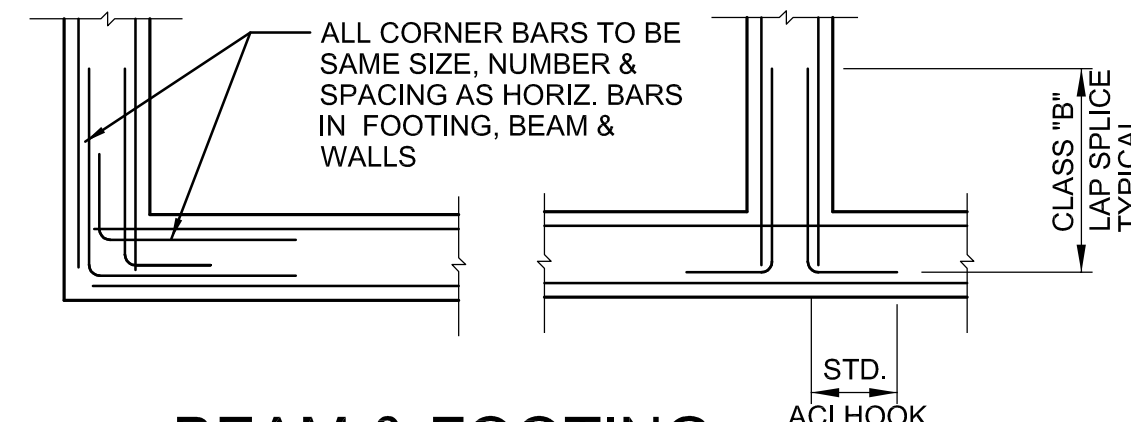


2 MASONRY WALL JOINT REINF DETAIL
NOT TO SCALE

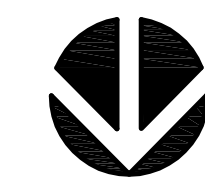
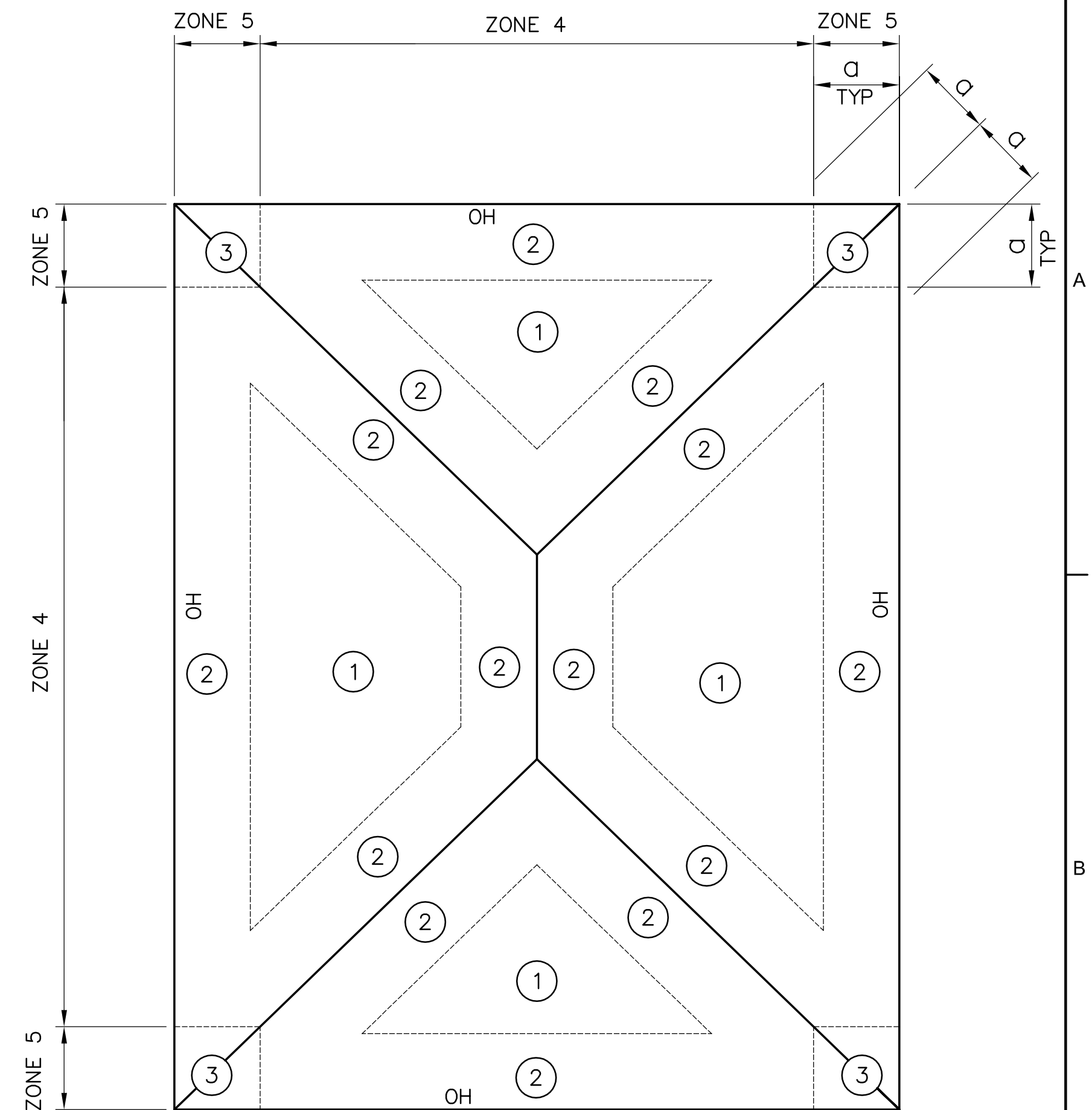


CORNER DETAIL

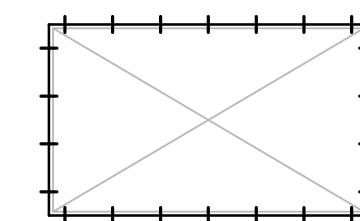
3 BOND BEAM REINFORCEMENT
NOT TO SCALE



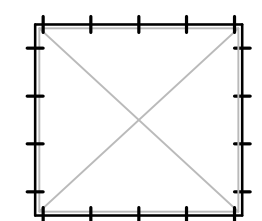
4 BEAM & FOOTING BAR ARRANGEMENT DETAIL
NOT TO SCALE



5 COMPONENTS AND CLADDING WIND LOAD DIAGRAM
* a = 3'-0" (TYP)



(WINDOW & DOOR OPENINGS 7'-0" WIDE AND LARGER)
2" X P.T. BUCK W/ 1/4" Ø X 1 1/4" CONC. EMBEDMENT TAPCON W/ 1" Ø WASHER AT 8" o.c., START 3" FROM CORNERS.



(WINDOW & DOOR OPENINGS 6'-6" WIDE AND SMALLER)
2" X P.T. BUCK W/ 1/4" Ø X 1 1/4" CONC. EMBEDMENT TAPCON W/ 1" Ø WASHER AT 12" o.c., START 3" FROM CORNERS.

BUCKS TO BE FASTENED HORIZONTALLY AND VERTICALLY TO CONCRETE BEAMS AND COLUMNS OR CONCRETE FILLED MASONRY.

CONTRACTOR TO COORDINATE OPENING DIMENSIONS.

5 TYPICAL WOOD BUCK TO CONCRETE CONNECTION DETAIL

TO THE BEST OF THE ARCHITECT'S AND ENGINEER'S KNOWLEDGE, THE PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE MINIMUM BUILDING CODES AND THE APPLICABLE FIRE SAFETY STANDARDS AS DETERMINED BY THE LOCAL AUTHORITY IN ACCORDANCE WITH CHAPTERS 553 AND 633 OF THE FLORIDA STATUTES.

CONSTRUCTION SET
NOVEMBER 2016

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DSGN	L. VAN DYK																		
DR	R. PERE																		
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0 1"
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BOAT LAUNCH AND RESTROOM FACILITY
PALM BEACH COUNTY, FLORIDA

STRUCTURAL
RESTROOM BUILDING
STRUCTURAL SCHEDULES

SHEET 44 OF 51

DWG SR4

DATE NOVEMBER 2016

PROJ 409534

VALVES AND SPECIALTY SYMBOLS	
	GATE VALVE
	OS & Y VALVE
	THERMAL EXPANSION VALVE
	BUTTERFLY VALVE
	BALL VALVE
	PRESSURE REDUCING VALVE
	PRESSURE RELIEF VALVE
	CHECK VALVE
	AUTOMATIC CONTROL VALVE-2 WAY
	AUTOMATIC CONTROL VALVE-3 WAY
	HOSE END DRAIN VALVE
	GLOBE VALVE
	TRIPLE DUTY VALVE
	BALANCING COCK OR VALVE
	SHUT-OFF VALVE
	PLUG VALVE
	FLOW SWITCH
	THERMOMETER WELL
	THERMOMETER
	PRESSURE GAUGE
	GAUGE COCK
	FLOW VENTURI
	PIPE ANCHOR
	FLOW ARROW
	STRAINER
	FLEXIBLE PIPE CONNECTOR
	SCREWED UNION
	CAP
	BASKET STRAINER
	MANUAL AIR VENT
	AUTOMATIC AIR VENT
	VENT THRU ROOF
	FLOOR DRAIN
	POINT OF CONNECTION TO EXISTING
	TRAP PRIMER CONNECTION
	VALVE IN DROP
	PIPING DIRECTION OF SLOPE
	SHOCK ARRESTOR WITH SIZE PER PDI-WH201
	PLUMBING STACK & NUMBER
	AIR OUTLET

PIPING LEGEND	
	EXISTING PIPING TO BE REMOVED
	EXISTING PIPING TO REMAIN
	NEW PIPING
	PIPE UP (SINGLE LINE)
	PIPE DOWN (SINGLE LINE)
	PIPE UP (DOUBLE LINE)
	PIPE DOWN (DOUBLE LINE)
	TOP PIPE CONNECTION
	BOTTOM PIPE CONNECTION
	CONDENSER WATER RETURN
	CONDENSER WATER SUPPLY
	CHILLED WATER SUPPLY
	CHILLED WATER RETURN
	HOT WATER SUPPLY
	HOT WATER RETURN
	REFRIGERANT PIPING
	CONDENSATE DRAIN FROM COOLING COIL
	DOMESTIC COLD WATER
	DOMESTIC HOT WATER
	HEAT TRACE DOMESTIC HOT WATER
	SANITARY SEWER
	SANITARY SEWER BELOW GRADE
	WATER MAIN
	VENT

PLUMBING ABBREVIATIONS			
CW	COLD WATER	PG	PRESSURE GAUGE
HW	HOT WATER	INV.	INVERT
VTR	VENT THRU ROOF	PVC	POLYVINYL CHLORIDE
FD	FLOOR DRAIN	SHT	SHEET
CO	CLEAN OUT	TA	TAMPER ALARM
RD	ROOF DRAIN	FS	FLOW SWITCH
RWL	RAIN WATER LEADER	DI	DUCTILE IRON
DF	DRINKING FOUNTAIN	FOG	FUEL OIL GAUGE
EWC	ELECTRIC WATER COOLER	BFP	BACKFLOW PREVENTER
LAV	LAVATORY	FT	FEET
WC	WATER CLOSET	HD	HEAD
UR	URINAL	CFM	CUBIC FEET PER MINUTE
AD	ACCESS DOOR	GPM	GALLONS PER MINUTE
AFF	ABOVE FINISHED FLOOR	HP	HORSEPOWER
FL	FLOOR	TP	TRAP PRIMER
CEIL/CLG	CEILING	CI	CAST IRON
DWG	DRAWING	ID	INSIDE DIAMETER
EL	ELEVATION	RCP	REINFORCED CONCRETE PIPE
FVC	FIRE VALVE CABINET	CONC.	CONCRETE
FHC	FIRE HOSE CABINET	SS	SOIL STACK
FDC	FIRE DEPARTMENT CONNECTION	AAV	AIR ADMITTANCE VALVE
HV	HOSE VALVE (INTERIOR)	WH	WATER HEATER
HB	HOSE BIBB (EXTERIOR)		

PLUMBING GENERAL NOTES

1. VERIFY ALL EXISTING CONDITIONS AT SITE PRIOR TO START OF WORK.
2. ALL FLOOR DRAIN TRAPS, EXCEPT IN TOILET ROOM, SHALL BE DEEP SEAL TYPE WITH 4 IN. MIN. WATER SEAL OR SHALL BE FED BY AN APPROVED AUTOMATIC PRIMING DEVICE.
3. PROVIDE SHOCK ARRESTORS LOCATED AND SIZED PER STANDARD PDI - WH201 ON ALL WATER LINES TO FIXTURES AND QUICK-CLOSING VALVES TO EQUIPMENT. THE USE OF AIR CHAMBERS IS NOT PERMITTED.
4. PLUMBING VENT EXTENSIONS THRU ROOF SHALL BE TERMINATED 6 IN. MIN. ABOVE ROOF, UNLESS NOTED OTHERWISE.
5. PLUMBING VENT TERMINALS SHALL BE LOCATED HORIZONTALLY FROM ANY FRESH AIR INTAKE MIN. 10 FT.

MISCELLANEOUS	
	SECTION CUT INDICATES DIRECTION SECTION IS TAKEN SECTION IDENTIFICATION LETTER NUMBER OF SHEET ON WHICH SECTION IS DRAWN
	NORTH ARROW
	PLUMBING STACK & NUMBER
	DETAIL SCALE: 1/4"=1'-0" DETAIL IDENTIFICATION NUMBER NUMBER OF SHEET ON WHICH SECTION IS DRAWN

PLUMBING FIXTURE SCHEDULE								
MARK	FIXTURE	TYPE	CARRIER REQ'D	CW	HW	WASTE	VENT	REMARKS
P-1	WATER CLOSET FLUSH VALVE ADA	WALL HUNG	YES	1"	-	3"	2"	
P-2	WATER CLOSET FLUSH VALVE	WALL HUNG	YES	1"	-	3"	2"	
P-3	URINAL WATERLESS	WALL HUNG	YES	-	-	2"	1 1/2"	
P-4	LAVATORY ADA	WALL HUNG	YES	1/2"	1/2"	1 1/2"	1 1/2"	
P-5	LAVATORY	COUNTER TOP	NO	1/2"	1/2"	1 1/2"	1 1/2"	
P-6	MOP BASIN	FLOOR SET	NO	3/4"	3/4"	3"	1 1/2"	
P-7	ELECTRIC WATER COOLER SPLIT-LEVEL ADA	WALL HUNG	YES	1/2"	-	1 1/2"	1 1/2"	W/REMOTE CHILLER
P-8	WATER HEATER	TANK	-	3/4"	3/4"	-	-	
P-9	EXPANSION TANK	-	-	3/4"	-	-	-	

FLOOR DRAIN SCHEDULE				
MARK	MANUFACTURER	MODEL NO.	SIZE	REMARKS
FD-1	JAY R. SMITH	2010Y03 (-A06NB-P050)	3"	NICKEL BRONZE ROUND STRAINER W/TRAP PRIMER CONNECTION
FD-2	JAY R. SMITH	2238Y04 (-NB2646Y)	2"	NICKEL BRONZE ROUND STRAINER WITH SEDIMENT BUCKET

CONSTRUCTION SET
NOVEMBER 2016

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DSGN	J. PARROTT
DR	J. PARROTT
CHK	R. BURNS
APVD	C. ANDERSON

NO.	DATE	REVISION	BY	APVD

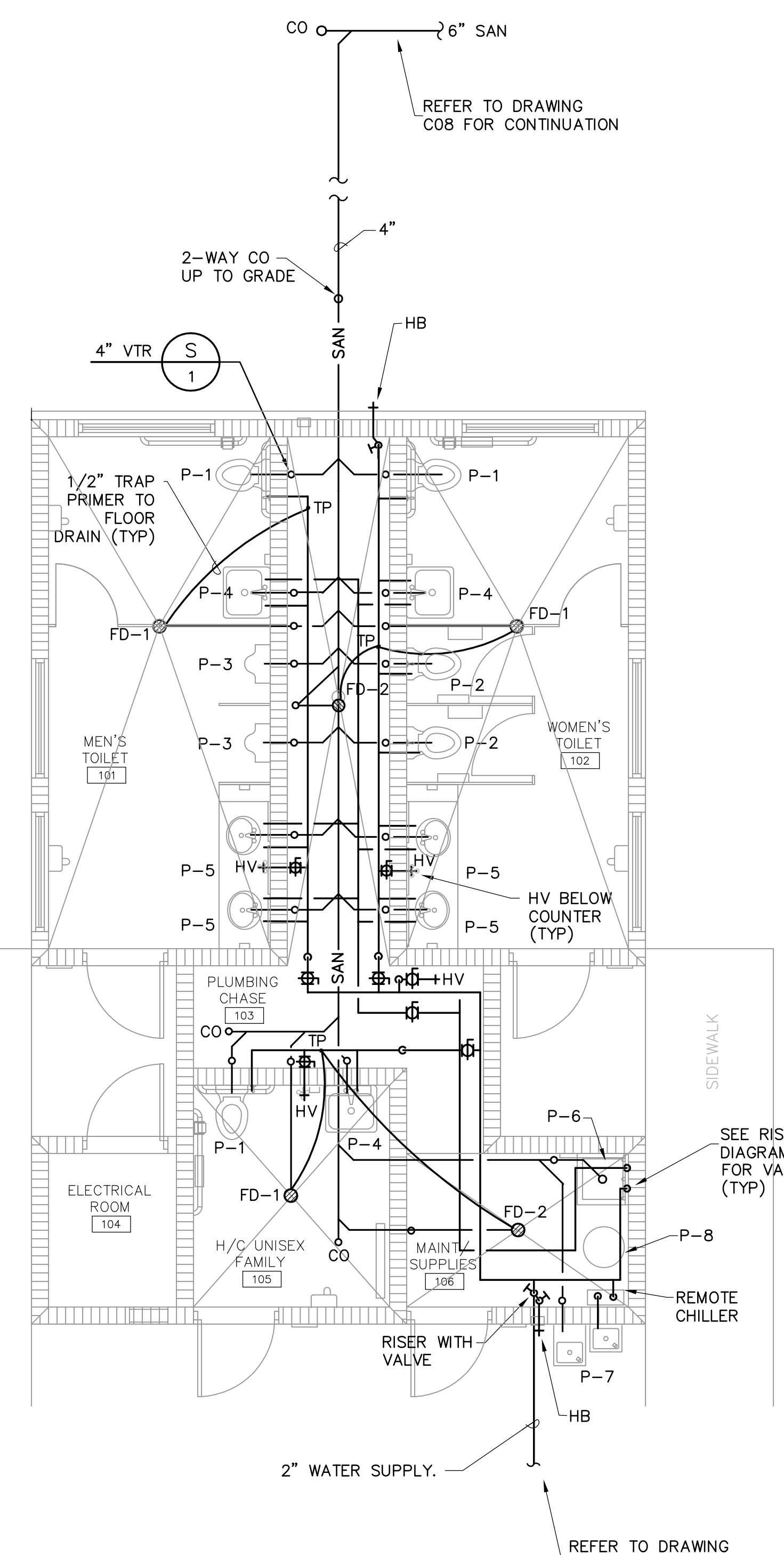
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EB 0000072 AA C000656 LC 26000188

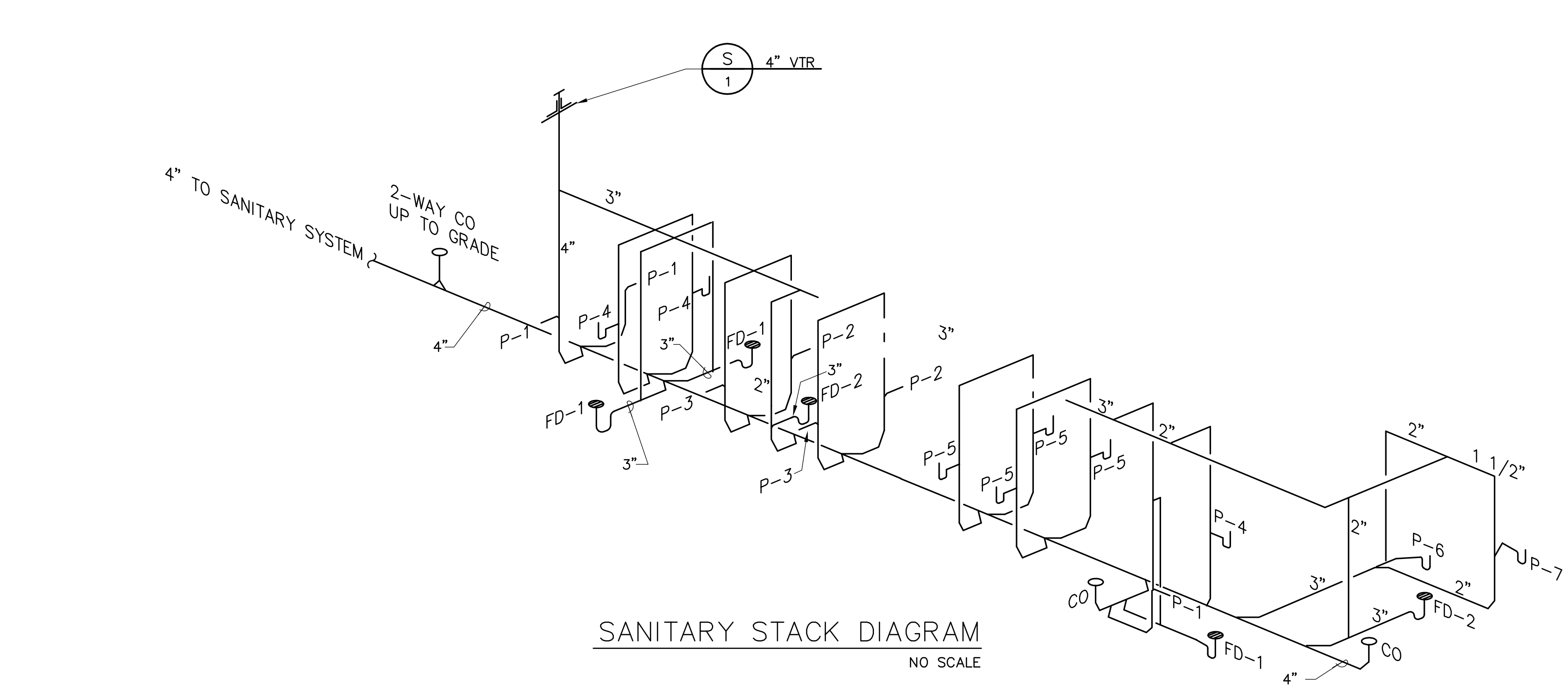
OKEEHEELEE PARK SOUTH
BOAT LAUNCH AND RESTROOM FACILITY
PALM BEACH COUNTY, FLORIDA

PLUMBING
RESTROOM BUILDING
LEGEND, SCHEDULES, GENERAL NOTES

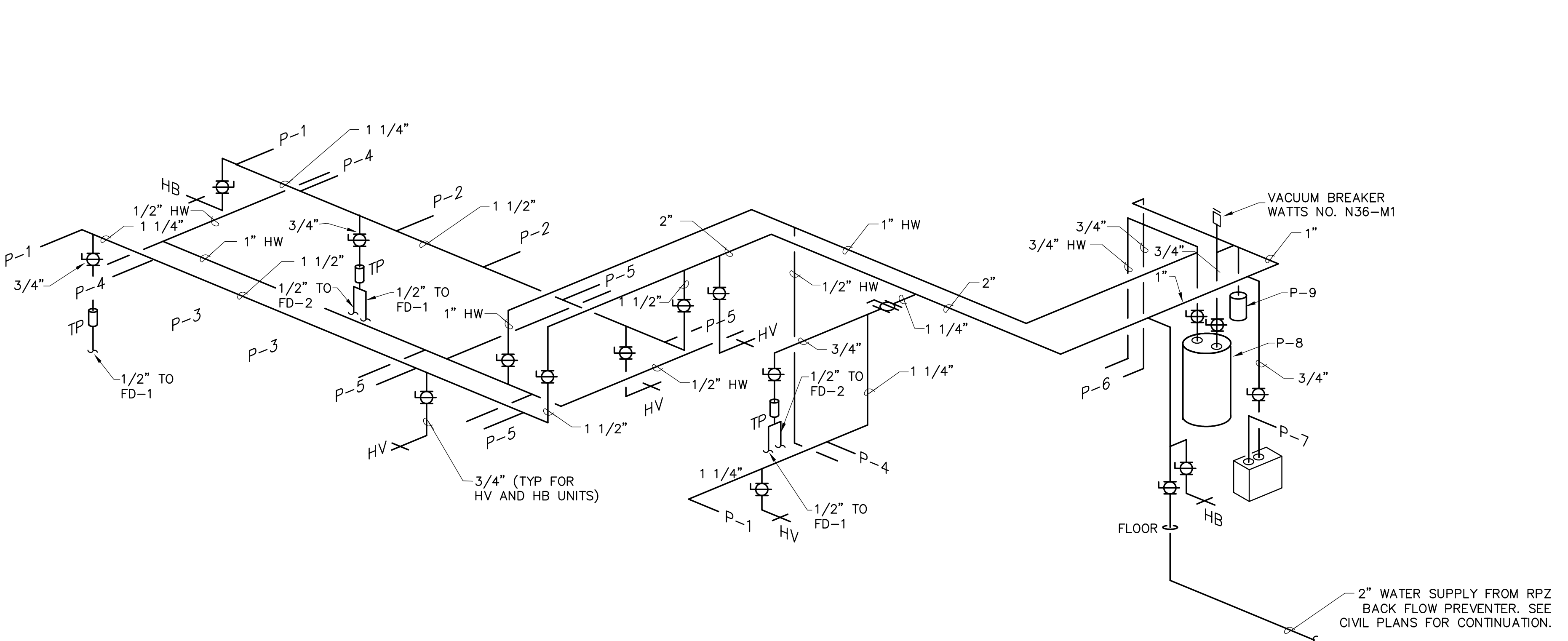
SHEET	45 OF 51
DWG	PR 1
DATE	NOVEMBER 2016
PROJ	409534



PLUMBING FLOOR PLAN
SCALE: 1/4"=1'-0"



SANITARY STACK DIAGRAM
NO SCALE



DOMESTIC WATER RISER DIAGRAM
NO SCALE

CONSTRUCTION SET
NOVEMBER 2016

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DSGN	R. BURNS						
DR	B. SHANNON						
CHK	C. ANDERSON						
APVD	C. ANDERSON	NO.	DATE	REVISION	BY	APVD	

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OKEEHEELEE PARK SOUTH
BOAT LAUNCH AND RESTROOM FACILITY
PALM BEACH COUNTY, FLORIDA

PLUMBING
RESTROOM BUILDING
PLUMBING FLOOR PLAN, STACK

SHEET 46 OF 51
DWG PR 2
DATE NOVEMBER 2016
PROJ 409534

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Plotted: November 17, 2016

PR2-PLUMBING.dwg

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Plotted: November 18, 2016
ER1-ELECTRICAL LEGEND.dwg

INTERIOR LIGHTING

WALL MOUNTED

- FLUORESCENT LIGHTING FIXTURE, A - DENOTES TYPE, b - DENOTES SWITCH DESIGNATION
- EMERGENCY FLUORESCENT LIGHTING FIXTURE, A - DENOTES TYPE, E - DENOTES EMERGENCY BATTERY PACK, NL - DENOTES NIGHT LIGHT
- DUAL SWITCHED LIGHTING FIXTURE, A - DENOTES TYPE, o - DENOTES SWITCH DESIGNATION, b - DENOTES SWITCH DESIGNATION
- LINEAR FLUORESCENT FIXTURE
- FLUORESCENT ONE BY FOUR LIGHTING FIXTURE,
- STRIP FLUORESCENT LIGHTING FIXTURE,
- TRACK LIGHTING
- LIGHTING FIXTURE
- EMERGENCY LIGHTING FIXTURE
- EMERGENCY LIGHTING, SELF CONTAINED BATTERY PACK.
- EMERGENCY LIGHTING REMOTE HEAD
- EXIT LIGHT WITH ARROW, LETTER DENOTES TYPE, X1 - SINGLE FACE, X2 - DOUBLE FACE

CEILING MOUNTED

- FLUORESCENT LIGHTING FIXTURE, A - DENOTES TYPE, b - DENOTES SWITCH DESIGNATION
- EMERGENCY FLUORESCENT LIGHTING FIXTURE, A - DENOTES TYPE, E - DENOTES EMERGENCY BATTERY PACK, NL - DENOTES NIGHT LIGHT
- DUAL SWITCHED LIGHTING FIXTURE, A - DENOTES TYPE, o - DENOTES SWITCH DESIGNATION, b - DENOTES SWITCH DESIGNATION
- LINEAR FLUORESCENT FIXTURE
- FLUORESCENT ONE BY FOUR LIGHTING FIXTURE,
- STRIP FLUORESCENT LIGHTING FIXTURE,
- TRACK LIGHTING
- LIGHTING FIXTURE
- EMERGENCY LIGHTING FIXTURE
- EMERGENCY LIGHTING, SELF CONTAINED BATTERY PACK.
- EMERGENCY LIGHTING REMOTE HEAD
- EXIT LIGHT WITH ARROW, LETTER DENOTES TYPE, X1 - SINGLE FACE, X2 - DOUBLE FACE

INTERIOR CONDUIT AND WIRE

#8, #10 #8 DENOTES PHASE AND NEUTRAL IF APPLICABLE, #10 DENOTES GROUNDING CONDUCTOR SIZE

- CONDUIT CONCEALED IN WALL OR CEILING, TIC MARKS INDICATE NUMBER OF WIRES, FROM LEFT TO RIGHT: SWITCH LEG, PHASES, NEUTRAL AND GROUND
- CONDUIT, EXPOSED
- HOMERUN TO PANEL (PANEL LA CIRCUITS 2,4 INDICATED)
- JUNCTION BOX, SURFACE MOUNTED, P - POWER, C - CEILING, D - DATA, H - HUB, T - TELEPHONE
- JUNCTION BOX, WALL MOUNTED FLUSH
- PULL BOX
- CONDUIT SEAL OFF
- CONDUIT WITH END CAPPED
- CONDUIT UP
- CONDUIT DOWN

SPECIAL DEVICES

- FLOOR GROUNDING PLATE
- RELAY CONTROL UNIT
- CONTACTOR
- EMERGENCY POWER OFF PUSHBUTTON STATION, RED MUSHROOM HEAD
- SOLENOID VALVE CONNECTION
- LIMIT SWITCH CONNECTION
- THERMOSTAT CONNECTION
- PNEUMATIC/ELECTRIC CONNECTION
- PHOTOCELL
- PRESSURE SWITCH CONNECTION

MISCELLANEOUS

- NOTE CALL OUT
- SECTION CUT, INDICATES DIRECTION SECTION IS TAKEN, SECTION IDENTIFICATION NUMBER, NUMBER OF SHEET ON WHICH SECTION IS DRAWN
- NORTH ARROW
- DETAIL, SCALE: 1/4" = 1'-0", NUMBER OF SHEET ON WHICH DETAIL IS DRAWN

INTERIOR POWER EQUIPMENT AND DEVICES

WALL MOUNTED

- DUPLEX RECEPTACLE, WP - WEATHERPROOF, EP - EXPLOSION PROOF, GFI - GROUND FAULT INTERRUPT, IG - ISOLATED GROUND, ACT - ABOVE COUNTER TOP, D - DEDICATED, C - CLEAN POWER, E - EMERGENCY
- QUADRAPLEX RECEPTACLE
- SPECIAL PURPOSE SINGLE RECEPTACLE WITH NEMA DESIGNATION
- MULTI-OUTLET SURFACE RACEWAY, SIZE AND NUMBER OF RECEPTACLES AS SCHEDULED, NUMBER INDICATES CIRCUIT.
- WALL SWITCH 120-277 VOLT, 20 AMP, SINGLE POLE, SUBSCRIPT DENOTES THE FOLLOWING: 2 - DOUBLE POLE, 3 - 3 WAY, 4 - 4 WAY, HP - MOTOR RATED SWITCH, K - KEY OPERATED, L - LOW VOLTAGE, OS - OCCUPANCY SENSOR, P - PILOT LIGHT, D - DIMMER
- CEILING MOUNTED OCCUPANCY SENSOR
- MOTOR CONNECTION (5 HP INDICATED)
- PANELBOARD, SURFACE MOUNTED
- PANELBOARD, RECESSED
- SWITCHBOARD
- TRANSFORMER
- GENERATOR SET
- AUTOMATIC TRANSFER SWITCH

FLOOR MOUNTED

- DISCONNECT SWITCH, NEMA DESIGNATION, FUSE SIZE, UL CLASS (NF INDICATES NON-FUSED TYPE), SWITCH AMP RATING, NUMBER OF POLES
- ENCLOSED CIRCUIT BREAKER, NEMA DESIGNATION, AIC RATING, TRIP RATING (AMPS), NUMBER OF POLES
- MOTOR CONTROLLER, NOTATION WHEN OTHER THAN ACROSS THE LINE, RVA - REDUCED VOLTAGE AUTO TRANSFORMER, RVR - REDUCED VOLTAGE PRIMARY RESISTOR, RVW - REDUCED VOLTAGE Y/DELTA, RVP - REDUCED VOLTAGE PART WINDING, R - REVERSIBLE, 1 INDICATES STARTER NEMA SIZE, 3 INDICATES NUMBER OF POLES
- COMBINATION STARTER, NEMA DESIGNATION, FUSE SIZE, UL CLASS, SWITCH AMP RATING, STARTER NEMA SIZE, NUMBER OF POLES
- VARIABLE FREQUENCY CONTROLLER, NEMA DESIGNATION, CONTROLLER TYPE, C - CONSTANT TORQUE, H - CONSTANT HP, HP RATING, NUMBER OF POLES

NEW

- 35/3
- BM-20
- 3-25
- 25
- 100
- DISCONNECT SWITCH, GANG OPERATED
- AUTOMATIC CIRCUIT RECLOSURE
- GROUND ROD
- LIGHTNING ROD, SHOWN AS 24" HIGH
- MAST TYPE LIGHTNING PROTECTION SYSTEM, SHOWN AS 60' CLASS, 2 POLE
- LIGHTNING ROD ON POLE FOR SEPARATELY MOUNTED LIGHTNING PROTECTION SYSTEM
- MANHOLE, EMH - ELECTRICAL, TMH - TELEPHONE, CMH - COMMUNICATIONS
- 4-#6 OHP 4160V
- UP
- OS
- US
- UT
- OT
- UC
- UF
- BG
- G
- G

WALL MOUNTED

- +54
- A
- INTERCOMMUNICATIONS STATION
- SPEAKER, CEILING MOUNTED
- SPEAKER, WALL MOUNTED
- DOOR BELL
- DOOR CHIME
- FIXED CAMERA
- PAN/TILT/ZOOM CAMERA
- CARD READER
- KEY PAD
- MOTION DETECTOR
- MOTION SENSOR
- MOTORIZED DAMPER
- GLASS BREAK DEVICE
- TV OUTLET
- COMMUNICATION BACKBOARD
- DOOR CONTACT

EXISTING

- 8M-20
- 3-25
- 25
- 100
- DISCONNECT SWITCH, GANG OPERATED
- AUTOMATIC CIRCUIT RECLOSURE
- GROUND ROD
- LIGHTNING ROD, SHOWN AS 24" HIGH
- MAST TYPE LIGHTNING PROTECTION SYSTEM, SHOWN AS 60' CLASS, 2 POLE
- LIGHTNING ROD ON POLE FOR SEPARATELY MOUNTED LIGHTNING PROTECTION SYSTEM
- MANHOLE, EMH - ELECTRICAL, TMH - TELEPHONE, CMH - COMMUNICATIONS
- EOP
- EUP
- EOS
- EUS
- EUT
- EOT
- EUC
- EUF
- EBG
- EG
- EG

FLOOR MOUNTED

- TELEPHONE OUTLET, SUBSCRIPT DENOTES: +54 - WALL MOUNTED AT 54" AFF, P - PAY PHONE
- MULTI-PORT COMMUNICATIONS OUTLET, A - DENOTES TYPE
- INTERCOMMUNICATIONS STATION
- SPEAKER, CEILING MOUNTED
- SPEAKER, WALL MOUNTED
- DOOR BELL
- DOOR CHIME
- FIXED CAMERA
- PAN/TILT/ZOOM CAMERA
- CARD READER
- KEY PAD
- MOTION DETECTOR
- MOTION SENSOR
- MOTORIZED DAMPER
- GLASS BREAK DEVICE
- TV OUTLET
- COMMUNICATION BACKBOARD
- DOOR CONTACT

EXTERIOR

POLE, LENGTH AND CLASS AS INDICATED

POLE MOUNTED LIGHT FIXTURE

DOWN GUY-NOTED AS 8000 POUND STRENGTH, ANCHOR AT 20 FEET FROM POLE

TRANSFORMER BANK POLE MOUNTED, SHOWN AS 3 PHASE, 25kVA

SINGLE PHASE TRANSFORMER, POLE MOUNTED SHOWN AS 25kVA

PAD MOUNTED TRANSFORMER, SHOWN AS 100kVA

DISCONNECT SWITCH, GANG OPERATED

AUTOMATIC CIRCUIT RECLOSURE

GROUND ROD

LIGHTNING ROD, SHOWN AS 24" HIGH

MAST TYPE LIGHTNING PROTECTION SYSTEM, SHOWN AS 60' CLASS, 2 POLE

LIGHTNING ROD ON POLE FOR SEPARATELY MOUNTED LIGHTNING PROTECTION SYSTEM

MANHOLE, EMH - ELECTRICAL, TMH - TELEPHONE, CMH - COMMUNICATIONS

OVERHEAD PRIMARY, SHOWN AS 4-#6 CONDUCTORS, 4160 V

UNDERGROUND PRIMARY

OVERHEAD SECONDARY

UNDERGROUND SECONDARY

UNDERGROUND TELEPHONE CONDUIT

OVERHEAD TELEPHONE

UNDERGROUND COMMUNICATION

UNDERGROUND FIBER OPTIC

BURIED GROUND WIRE

GROUND WIRE EXPOSED

ROOF CONDUCTOR

GROUND CONNECTION OR EQUIPMENT BOND

COMMUNICATION

TELEPHONE OUTLET, SUBSCRIPT DENOTES: +54 - WALL MOUNTED AT 54" AFF, P - PAY PHONE

MULTI-PORT COMMUNICATIONS OUTLET, A - DENOTES TYPE

INTERCOMMUNICATIONS STATION

SPEAKER, CEILING MOUNTED

SPEAKER, WALL MOUNTED

DOOR BELL

DOOR CHIME

FIXED CAMERA

PAN/TILT/ZOOM CAMERA

CARD READER

KEY PAD

MOTION DETECTOR

MOTION SENSOR

MOTORIZED DAMPER

GLASS BREAK DEVICE

TV OUTLET

COMMUNICATION BACKBOARD

DOOR CONTACT

ONE-LINE

POTENTIAL TRANSFORMER

SURGE SUPPRESSOR

CONTACT NORMAL OPEN

CONTACT NORMAL CLOSED

FUSE

GROUND

TRANSFORMER

AUTOMATIC TRANSFER SWITCH

CIRCUIT BREAKER

DRAW OUT CIRCUIT BREAKER

DRAW OUT FUSE

RELAY

CURRENT TRANSFORMER

DISCONNECT SWITCH

DISCONNECT SWITCH WITH FUSE

LIGHTNING ARRESTOR

ABBREVIATIONS

ACT	ABOVE COUNTER TOP
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AMP	AMPERES
AL	ALUMINUM
AHU	AIR HANDLING UNIT
BLDG	BUILDING
CKT	CIRCUIT
C	CONDUIT
CONN	CONNECTION
COND	CONDUCTOR
CU	COPPER
DET	DETAIL
DN	DOWN
DISC	DISCONNECT
DP	DISTRIBUTION PANEL
EA	EACH
ELEC	ELECTRICAL
EM	EMERGENCY
EMT	ELECTRICAL METALLIC TUBING
ENT	ELECTRICAL NON-METALLIC TUBING
EP	EXPLOSIONPROOF
EW	ELECTRICAL WATER COOLER
F	FUSE
FLA	FULL LOAD AMPS
FLEX	FLEXIBLE
FLR	FLOOR
FLUOR	FLUORESCENT
GND	GROUND
GALV	GALVANIZED
GF	GROUND FAULT INTERRUPT
HH	HAND HOLE
HID	HIGH INTENSITY DISCHARGE
HP	HORSE POWER
H	HEIGHT
IAW	IN ACCORDANCE WITH
IDF	INTERMEDIATE DISTRIBUTION FRAME
IG	ISOLATED GROUND
INC	INCANDESCENT
INCH	INCH
IMT	INTERMEDIATE METAL CONDUIT
JB	JUNCTION BOX
KCM	1000 CIRCULAR MILS
KVA	KILOVOLT AMPS
KVAR	KILOVOLT AMPS REACTIVE
KW	KILOWATT
KWH	KILOWATT HOUR
LA	LIGHTNING ARRESTOR
LTG	LIGHTING
LV	LOW VOLTAGE
MAX	MAXIMUM
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MDF	MAIN DISTRIBUTION FRAME
MDP	MAIN DISTRIBUTION PANEL
MECH	MECHANICAL
MFG	MANUFACTURER
MG	MOTOR GENERATOR
MIC	MANHOLE, METAL HALIDE, MOUNTING HEIGHT
MIC	MICROPHONE
MIN	MINIMUM
MLO	MAIN LUGS ONLY
MTD	MOUNTED
N/A	NOT APPLICABLE
NEC	NATIONAL ELECTRIC CODE
NEMA	NATIONAL ELECTRIC MANUFACTURERS ASSOCIATION
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
NO	NORMALLY OPEN, NUMBER
PB	PULL BOX, PUSH BUTTON
PH	PHASE
PNL	PANEL
POC	POINT OF CONNECTION
PS	PULL SWITCH
PVC	POLYVINYL CHLORIDE
QTY	QUANTITY
RCPT	RECEPTACLE
RGS	RIGID GALVANIZED STEEL
SCH	SCHEDULE
SQ FT	SQUARE FOOT
SW	SWITCH
SYS	SYSTEM
TEL	TELEPHONE
TVSS	TRANSIENT VOLTAGE SUPPRESSION SYSTEM
TYP	TYPICAL
UH	UNIT HEATER
UON	UNLESS OTHERWISE NOTED
UPS	UNINTERRUPTABLE POWER SUPPLY
V	VOLTAGE
W	WIRE
W/O	WITHOUT
WP	WEATHERPROOF
WT	WEIGHT
REF	REFERENCE, REFER
XFMR	TRANSFORMER

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CONSTRUCTION SET
NOVEMBER 2016

DSGN	J. JONES
DR	D. ALMENDINGER
CHK	E. CARRASCO
APVD	M. LANDRUM

NO.	DATE	PERMIT SET	BY	APVD
	10/21/15	REVISION	JJ	ML

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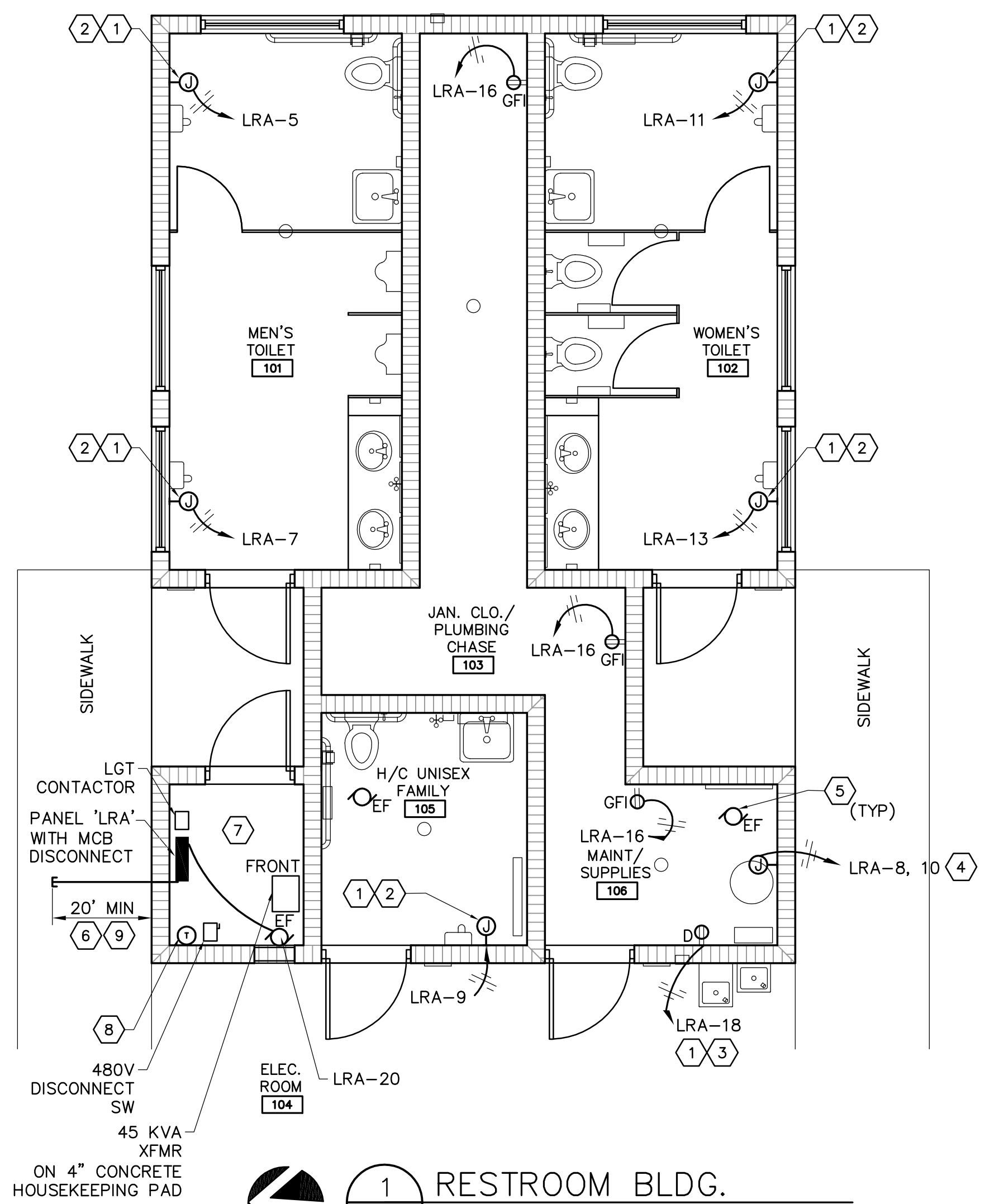
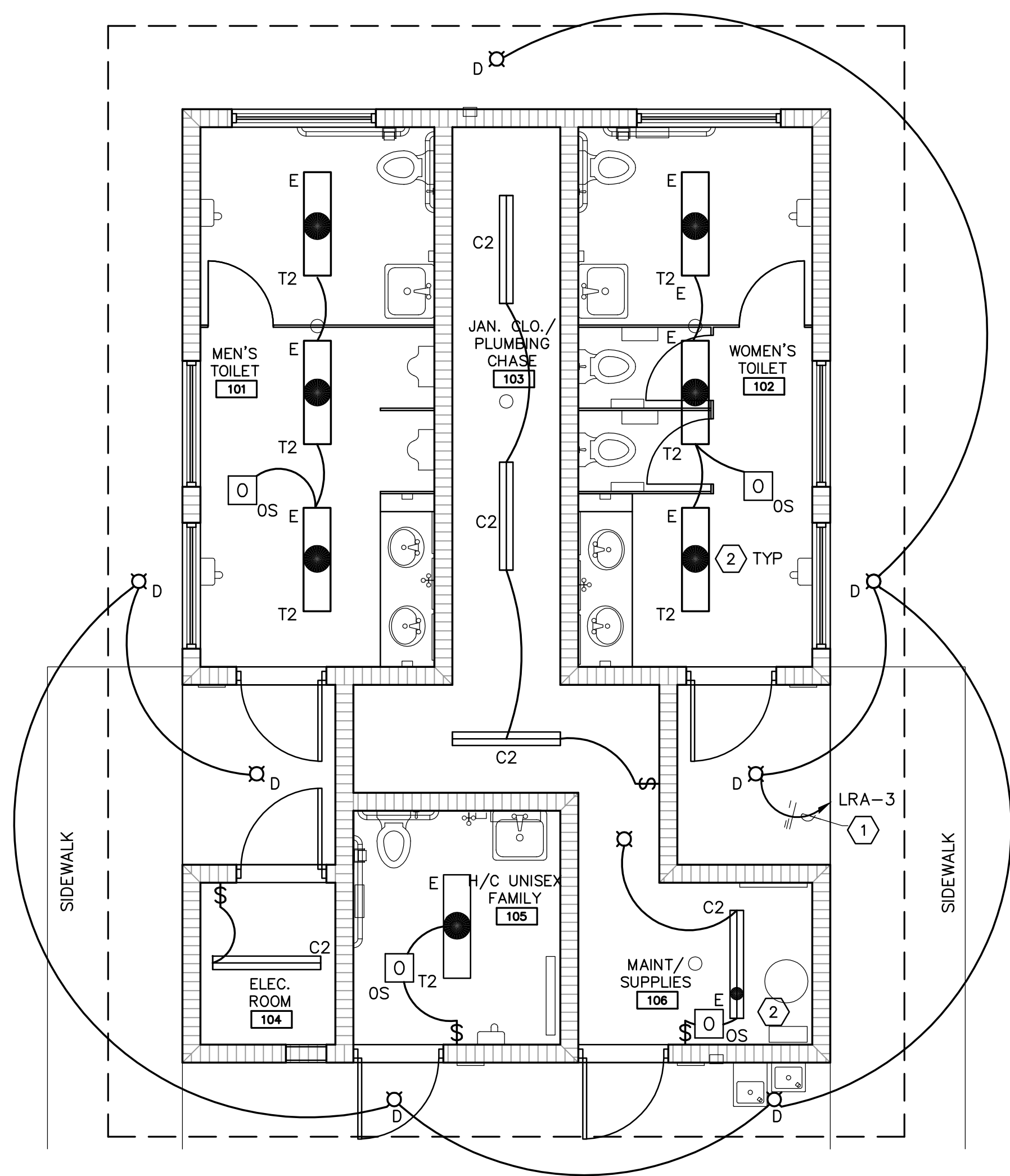
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OKEEHEELEE PARK SOUTH
BOAT LAUNCH AND RESTROOM FACILITY
PALM BEACH COUNTY, FLORIDA

ELECTRICAL
**RESTROOM BUILDING
ELECTRICAL LEGEND**

SHEET	47 OF 51
DWG	ER 1
DATE	NOVEMBER 2016
PROJ	409534

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1 RESTROOM BLDG
ER2 LIGHTING PLAN 1/4" = 1'-0"

1 RESTROOM BLDG.
ER2 POWER PLAN 1/4" = 1'-0"

KEYED NOTES:

- 1 REFER TO LIGHTING CONTROL DIAGRAM ON DRAWING ER4.
- 2 CONNECT EMERGENCY BALLAST AHEAD OF LOCAL SWITCH.

KEYED NOTES:

- 1 FIELD COORDINATE EQUIPMENT LOCATION AND VERIFY EQUIPMENT ELECTRICAL REQUIREMENTS WITH MANUFACTURER AND ADJUST CIRCUIT ACCORDINGLY.
- 2 JUNCTION BOX FOR HAND DRYER. PROVIDE DISCONNECT FOR HAND DRYER IF NOT INTEGRAL TO DRYER. COORDINATE LOCATION WITH ARCHITECTURAL DRAWINGS.
- 3 DEDICATED RECEPTACLE FOR REMOTE DRINKING FOUNTAIN CHILLER.
- 4 JUNCTION BOX FOR WATER HEATER.
- 5 THE EXHAUST FANS SHALL BE CONTROLLED BY THE CEILING MOUNTED OCCUPANCY SENSOR. SEE ARCHITECTURAL DRAWINGS FOR EXHAUST FAN LOCATION.
- 6 STUB OUT (4) 2" PVC CONDUITS FROM PANEL LRA TO 20' MINIMUM OUTSIDE OF CBS WALL (2 SPARE CONDUIT FOR FUTURE USE). CAP AND ELECTRONICALLY MARK OUTSIDE END.
- 7 LAYOUT EQUIPMENT TO COMPLY WITH NEC WORK CLEARANCES.
- 8 24V WALL MOUNTED THERMOSTAT SET TO 86° F FOR EF CONTROL.
- 9 STUB OUT (1) 2" PVC CONDUIT FOR IRRIGATION/PUMP POWER SUPPLY TO 20' MINIMUM OUTSIDE OF CBS WALL. CAP AND ELECTRONICALLY MARK OUTSIDE END.

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BOAT LAUNCH AND RESTROOM FACILITY
PALM BEACH COUNTY, FLORIDA

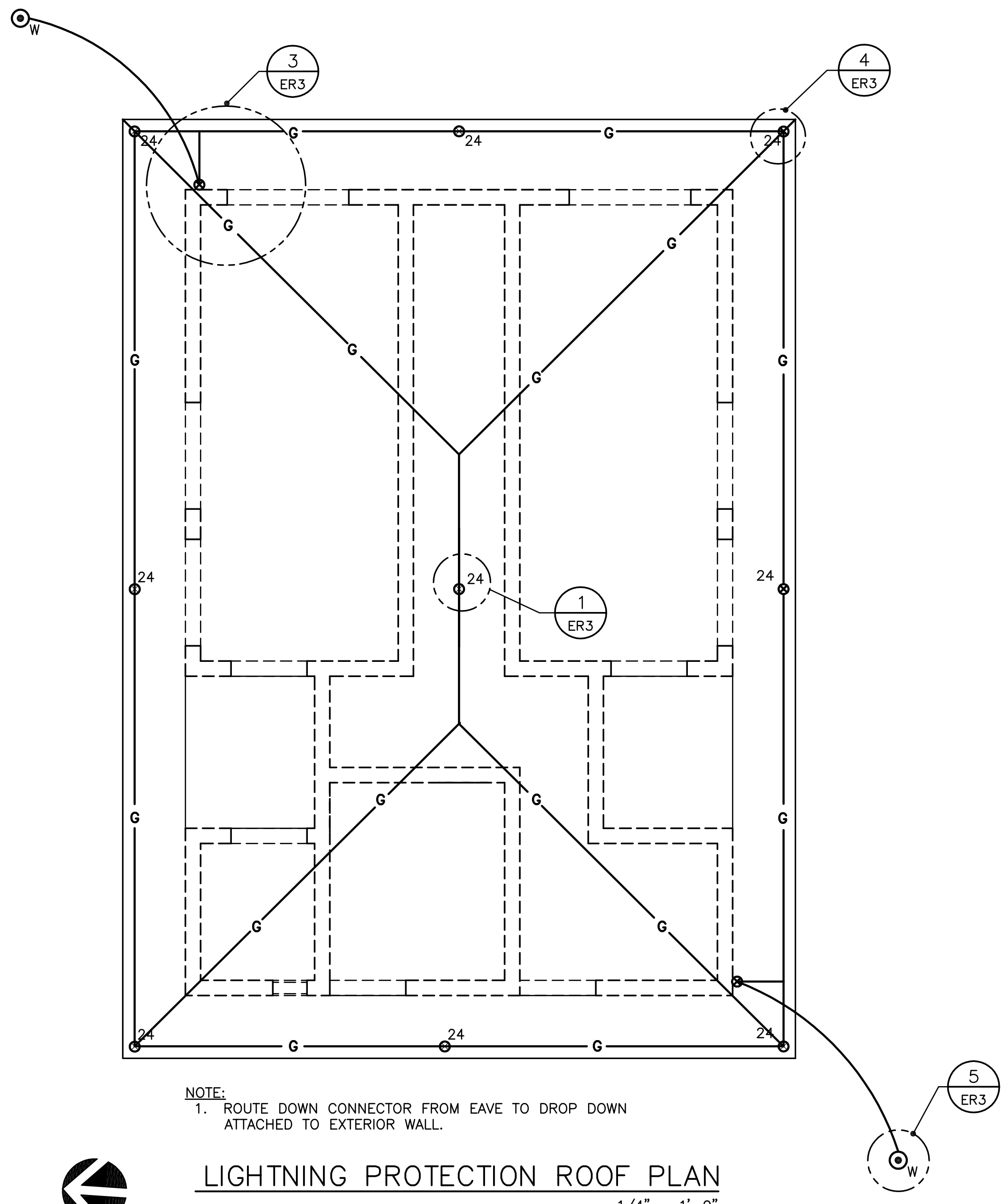
**ELECTRICAL
RESTROOM BUILDING
POWER AND LIGHTING PLAN**

SHEET	48 OF 51
DWG	ER 2
DATE	NOVEMBER 2016
PROJ	409534

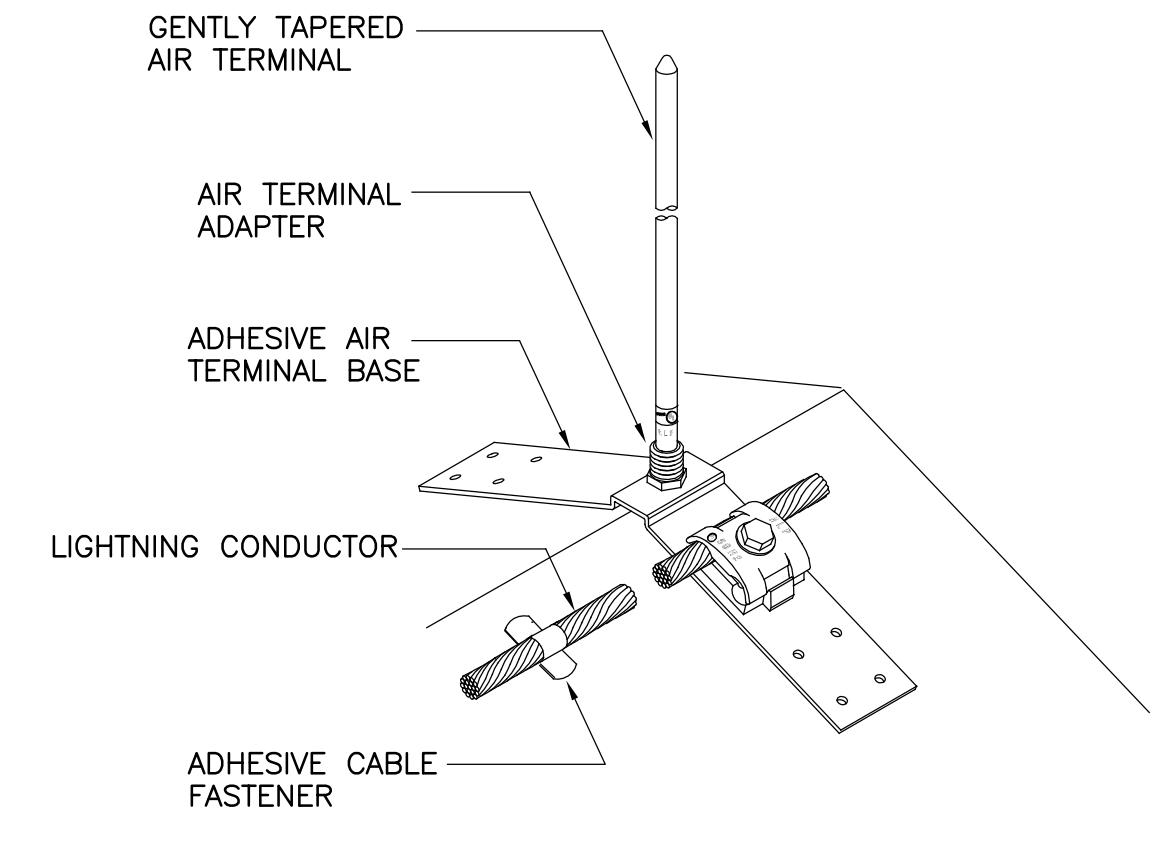
Plotted: November 17, 2016

ER2-ELECTRICAL PLAN.dwg

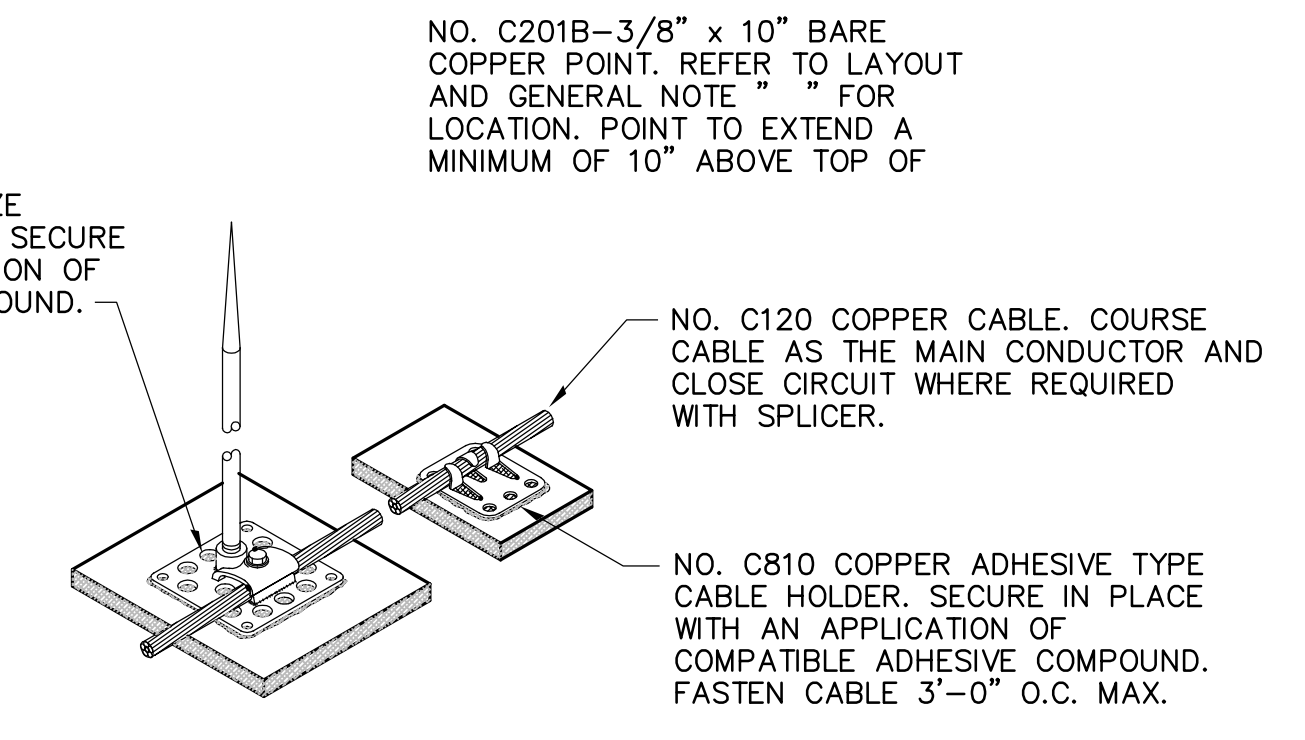
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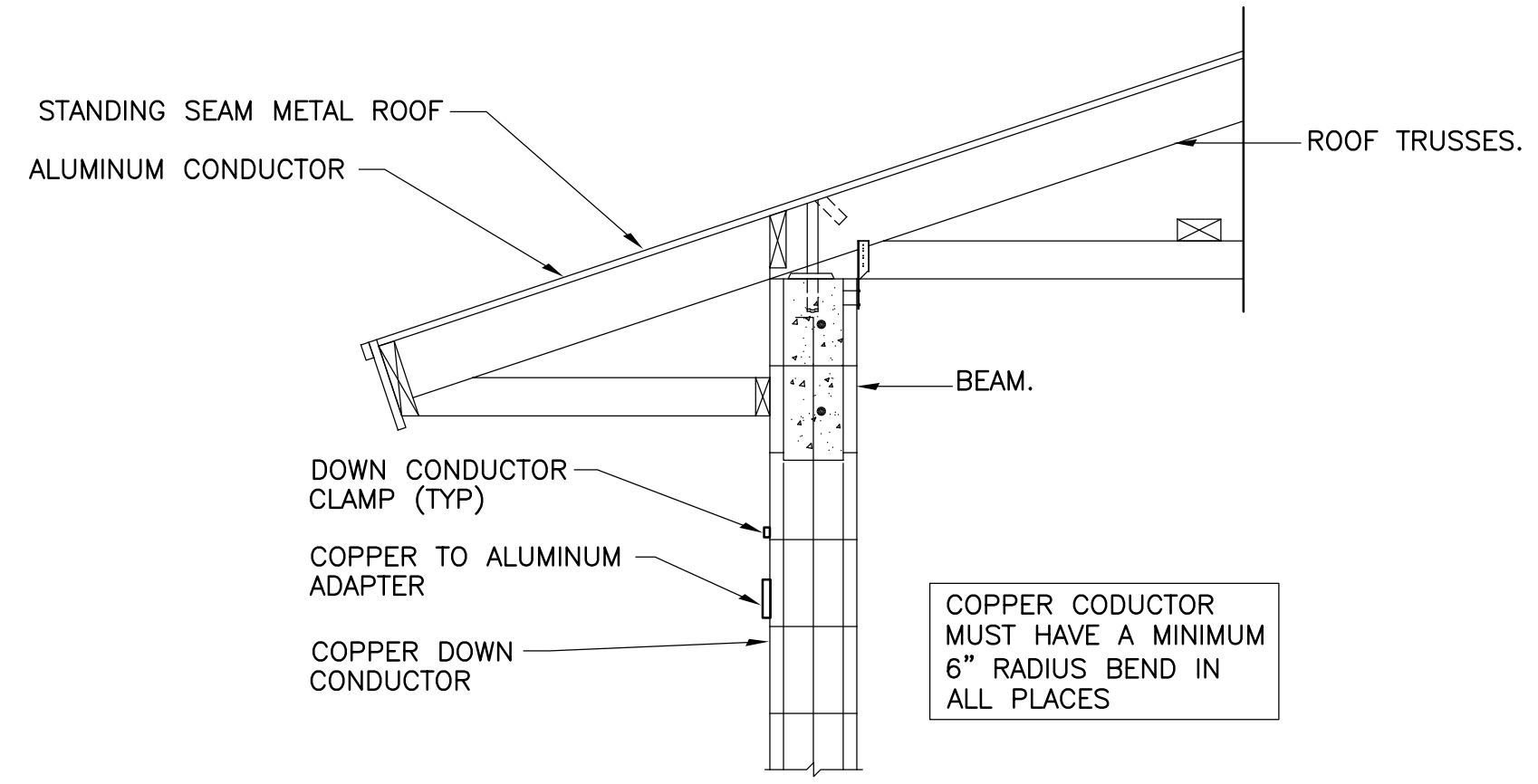
LIGHTNING PROTECTION ROOF PLAN
1/4" = 1'-0"



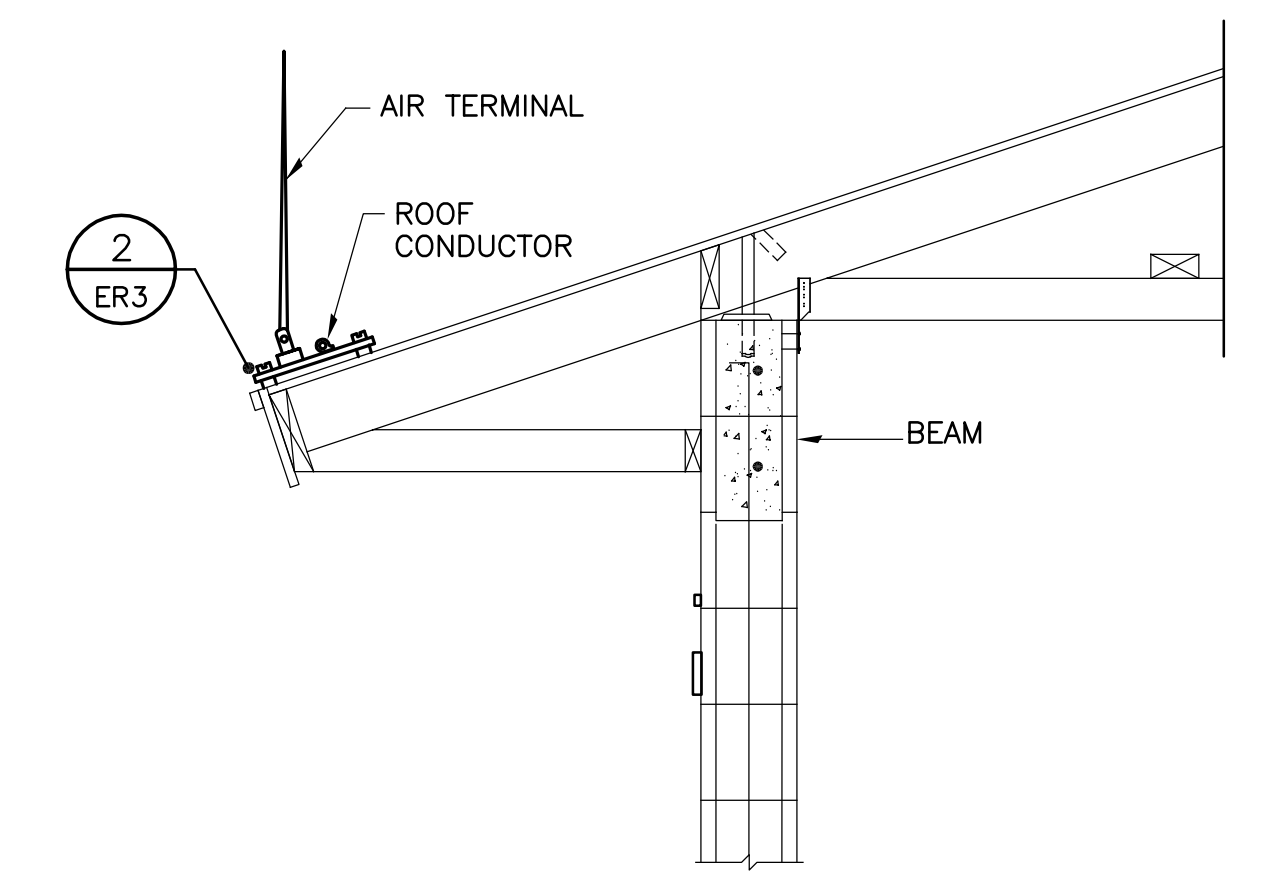
1 ADHESIVE AIR TERMINAL AT ROOF LEAK
ER3 SCALE: NONE



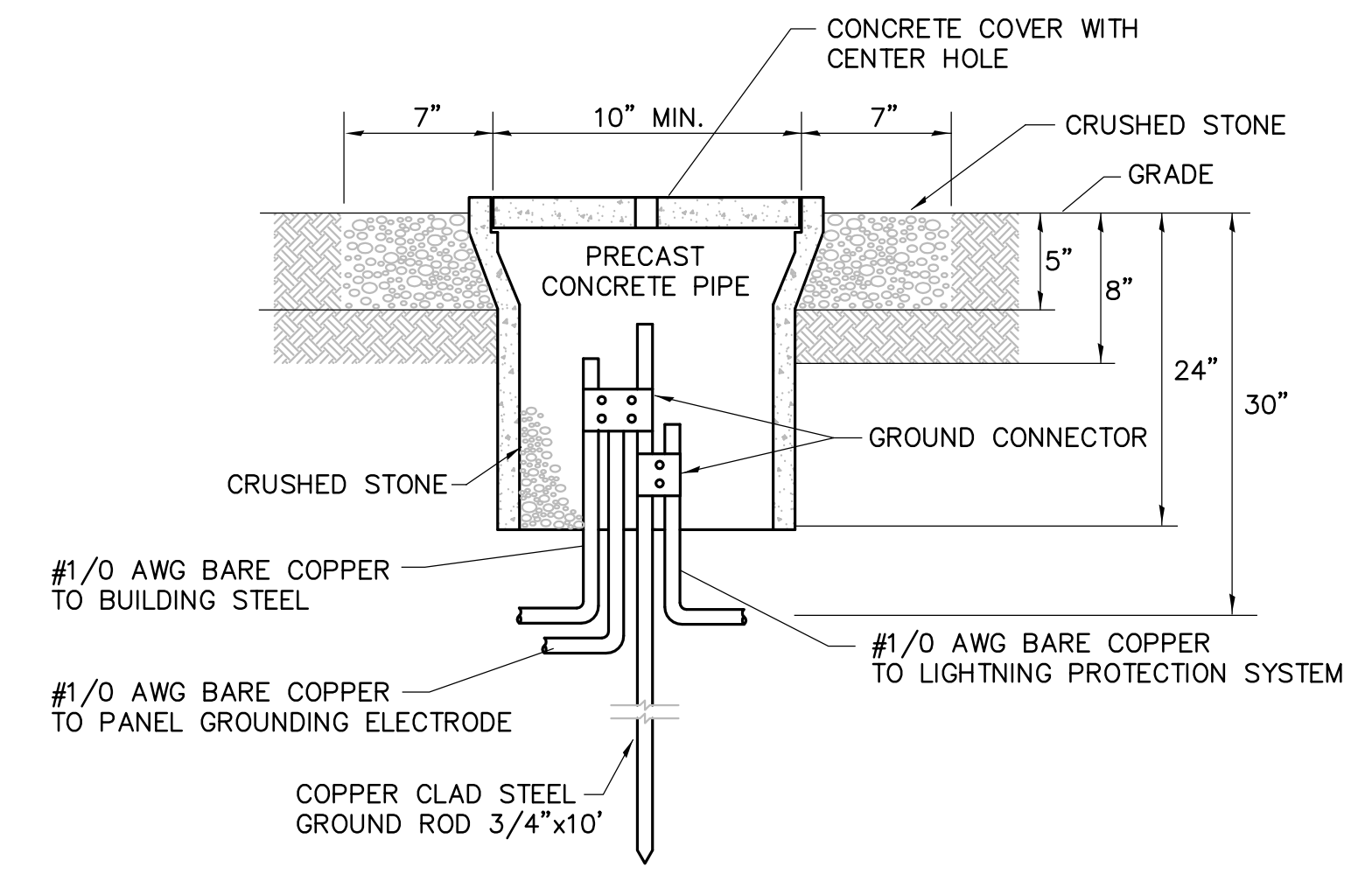
2 ADHESIVE AIR TERMINAL
ER3 SCALE: NONE



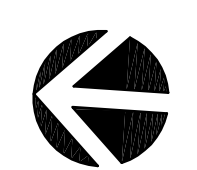
3 DOWN CONDUCTOR DETAILS
ER3 SCALE: NONE



4 ADHESIVE AIR TERMINAL AT ROOF EDGE
ER3 SCALE: NONE



5 GROUND ROD WELL
ER3 SCALE: NONE



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DSGN	J. JONES						
DR	R. PERE						
CHK	E. CARRASCO						
APVD	M. LANDRUM	10/21/15		PERMIT SET	JJ	ML	
		NO.	DATE	REVISION	BY	APVD	

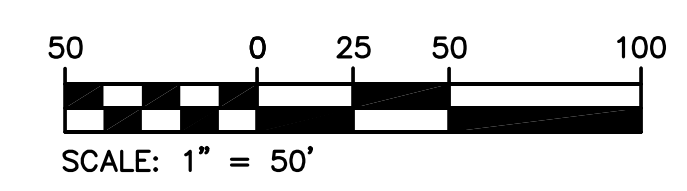
VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

CH2MHILL
3001 PGA BOULEVARD, SUITE 300
PALM BEACH GARDENS, FLORIDA 33410
EB 0000072 AA C000656 LC 26000188

OKEEHEELEE PARK SOUTH
BOAT LAUNCH AND RESTROOM FACILITY
PALM BEACH COUNTY, FLORIDA

ELECTRICAL
RESTROOM BUILDING
LIGHTNING PROTECTION PLAN AND DETAILS

SHEET	49 OF 51
DWG	ER 3
DATE	NOVEMBER 2016
PROJ	409534



OKEEHEELEE PARK SOUTH
SEE: BOUNDARY SURVEY
PALM BEACH COUNTY
DRAWING NO. S-3-11-3166

EXISTING FPL PAD
MOUNTED TRANSFORMER
AND METER RACK
(SEE RISER DIAGRAM SHEET ER4)

LAKE
OKEEHEELEE PARK SOUTH
SEE: BOUNDARY SURVEY
PALM BEACH COUNTY
DRAWING NO. S-3-11-3166

BR-2
SITE BENCHMARK
SET MAG NAIL & WASHER
BR-2 G MARK #5304
ELEVATION: 19.61 (NGVD29)
N 841759.1845
E 928972.5695

KEYED NOTES:
① HANDHOLE, CONCRETE POLYMER,
CARSON MODEL #H1118-12 OR APPROVED EQUAL

JM BRANDON
EQUESTRIAN CENTER

2" PVC, 4 #4
WITH 24" COVER

EXISTING PALMETTO
CLUMP TO BE REMOVED
(TYP)

2" PVC, 4 #4

PROPOSED RESTROOM
FACILITY

1" PVC, 4 #10, #10C

LAKE CONTROL
ELEVATION = 13.00
FEET NVGD

IRRIGATION PUMP
FIELD COORDINATE
EXACT LOCATION

PROPOSED BOAT LAUNCH

EXISTING UNDERGROUND
ELECTRICAL MAINLINE

BR-1
SITE BENCHMARK
SET MAG NAIL & WASHER
BR-1 G MARK #5304
ELEVATION: 18.39 (NGVD29)
N 841152.9755
E 928929.2605

LEGEND	
	CONCRETE
	PROPOSED PAVEMENT
	PROJECT BOUNDARY



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**CONSTRUCTION SET
NOVEMBER 2016**

DSGN	J. JONES						
DR	D. ALMENDINGER						
CHK	E. CARRASCO	10/21/15					
APVD	M. LANDRUM	NO.	DATE	PERMIT SET	REVISION	BY	APVD

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OKEEHEELEE PARK SOUTH
BOAT LAUNCH AND RESTROOM FACILITY
PALM BEACH COUNTY, FLORIDA

**ELECTRICAL
POWER DISTRIBUTION SITE PLAN**

SHEET	51 OF 51
DWG	E01
DATE	NOVEMBER 2016
PROJ	409534